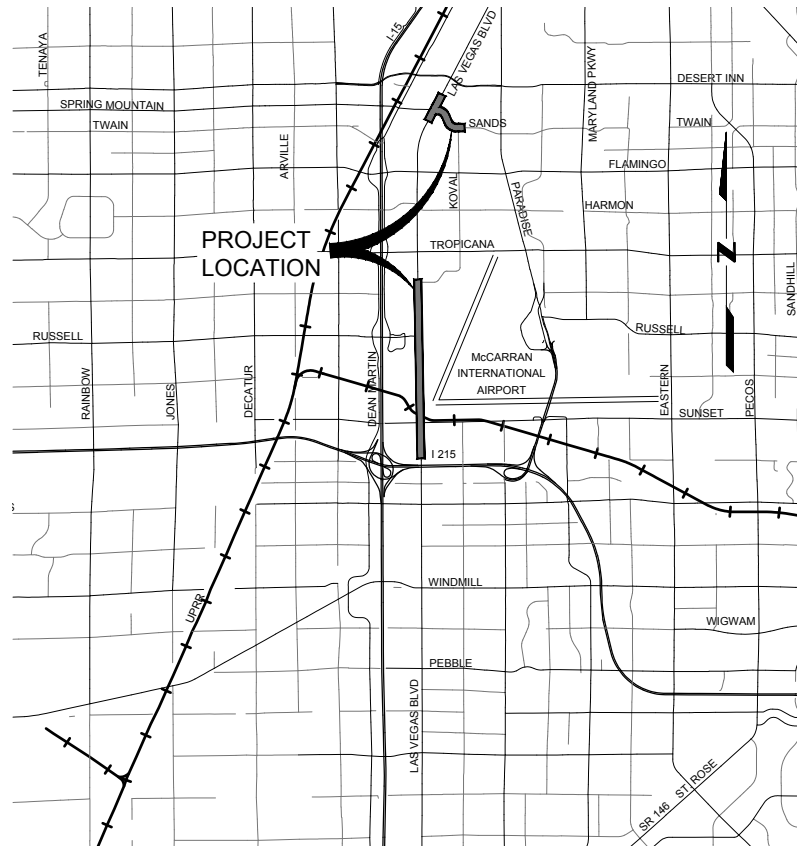


# DEPARTMENT OF PUBLIC WORKS



**Vicinity Map**  
NOT TO SCALE



**2020**

**IMPROVEMENT PLANS FOR:**

**LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS  
I-215 SOUTH TO RUSSELL ROAD (PHASE B)**

**LAS VEGAS VALLEY WATER DISTRICT  
CONTRACT NO. C1497 LAS VEGAS BOULEVARD  
WATERLINE REPLACEMENT FROM I-215 TO DEWEY DRIVE**

**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
LAS VEGAS BOULEVARD AND SANDS AVENUE &  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**ISSUED FOR  
CONSTRUCTION**

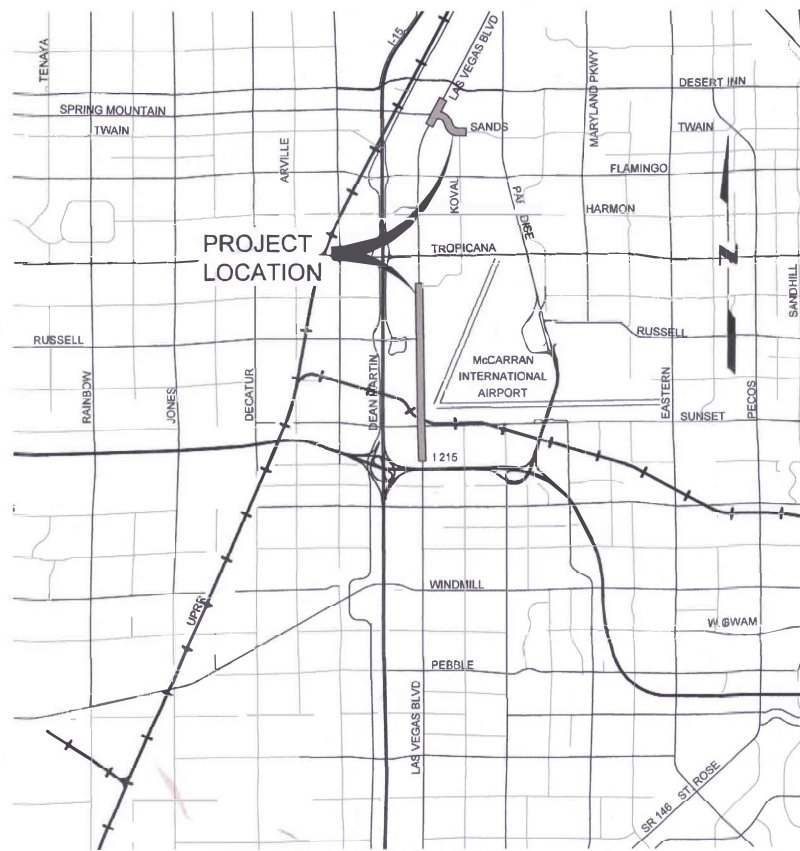
County Commissioners

- Marilyn Kirkpatrick, Chair
- Lawrence Weekly, Vice Chair
- Larry Brown
- James B. Gibson
- Justin C. Jones
- Michael Naft
- Tick Segerblom

AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	REVISIONS			TRAFFIC MANAGEMENT DIVISION
						NUMBER	DESCRIPTION	DATE	
									COVER SHEET
									L-2272
									&
									L-2174



# DEPARTMENT OF PUBLIC WORKS



**Vicinity Map**  
NOT TO SCALE



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TY-1 TO TY-7	TYPICAL SECTIONS
R-1 TO R-19	REMOVAL PLANS
C-1 TO C-19	CONSTRUCTION PLANS
B-1 TO B-11	BOLLARD PLANS
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DG-1 TO DG-10	DETAILED GRADING PLANS
SD-1 TO SD-5	STORM DRAIN PLAN AND PROFILES
SS-1 TO SS-11	SANITARY SEWER PLAN AND PROFILE, DETAILS
U-1	UTILITY PLANS
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COM-1 TO COM-6	COMMUNICATION PLANS
CDT-1 TO CDT-12	COMMUNICATION AND ELECTRICAL DETAILS
SL-1 TO SL-9	STREET LIGHTING PLANS
ST-1 TO ST-13	SIGNING AND STRIPING PLANS, DETAILS

**County Manager**

Yolanda T King

**Director of Public Works**

Approved:

*Denis Cederburg*  
Denis Cederburg

**County Commissioners**

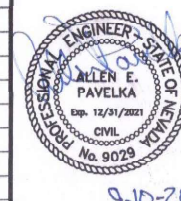
- Marilyn Kirkpatrick, Chair
- Lawrence Weekly, Vice Chair
- Larry Brown
- James B. Gibson
- Justin C. Jones
- Michael Naft
- Tick Segerblom

## 2020 IMPROVEMENT PLANS FOR LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS I-215 SOUTH TO RUSSELL ROAD (PHASE B)

FUNDED BY  
CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

**ISSUED FOR CONSTRUCTION**

AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	REVISIONS		
						NUMBER	DESCRIPTION	DATE
CENTRAL TELEPHONE COMPANY DBA CENTURYLINK	<i>Yusuf Zaidi</i>	9/15/2020	DEPUTY DIRECTOR	<i>Yusuf Zaidi</i>	9/14/20			
LAS VEGAS VALLEY WATER DISTRICT	<i>Di. SHADI</i>	12/30/2020	DEPUTY DIRECTOR	<i>Di. SHADI</i>	9/10/20			
SOUTHWEST GAS CORPORATION	<i>MATTHEW PEDRAZA</i>	12/5/2020	DEPUTY DIRECTOR	<i>Kaynard Yeager</i>	9/10/20			
NV ENERGY COMPANY [TRANSMISSION]	<i>John Harty</i>	10/1/2020	ROAD DIVISION	<i>John Harty</i>	9/10/20			
NV ENERGY COMPANY [DISTRIBUTION]	<i>Edward Garrison</i>	9/15/2020	TRAFFIC MANAGEMENT DIVISION	<i>Kaynard Yeager</i>	9/10/20			
CLARK COUNTY WATER RECLAMATION DISTRICT	<i>Christina Hunter</i>	11/17/2020	COUNTY SURVEYOR'S OFFICE	<i>Christina Hunter</i>	9/10/2020			
COX COMMUNICATIONS, LAS VEGAS, INC	<i>David Sanchez</i>	9/17/20	DESIGN ENGINEERING DIVISION	<i>David Sanchez</i>	9/14/20			
SOUTHERN NEVADA WATER AUTHORITY	<i>Di. SHADI</i>	12/30/2020	CONSTRUCTION MANAGEMENT DIVISION	<i>Di. SHADI</i>	9/10/2020			
			DEVELOPMENT REVIEW DIVISION	<i>Di. SHADI</i>	9/10/2020			



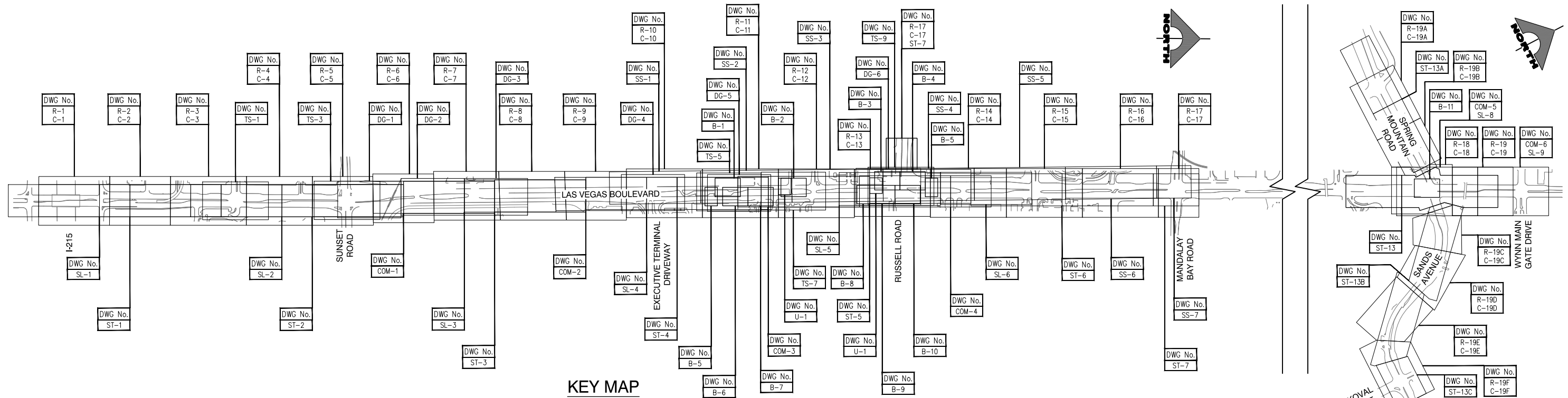
TRAFFIC MANAGEMENT DIVISION

COVER SHEET

**L-2272**

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID No.: 605718-20





KEY MAP

INDEX OF DRAWINGS

SHT. NO.	DWG. NO.	DESCRIPTION
1	COVER	COVER
2	G-2	KEYMAP AND INDEX OF DRAWINGS
3	G-3	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
4	G-4	GENERAL NOTES
5	HC-1	HORIZONTAL CONTROL PLAN
6	HC-2	HORIZONTAL CONTROL PLAN
7	HC-3	HORIZONTAL CONTROL PLAN
8	HC-4	HORIZONTAL CONTROL PLAN
9	HC-5	HORIZONTAL CONTROL PLAN
10	HC-6	HORIZONTAL CONTROL PLAN
11	HC-7	HORIZONTAL CONTROL PLAN
12	TY-1	TYPICAL SECTIONS
13	TY-2	TYPICAL SECTIONS
14	TY-3	TYPICAL SECTIONS
15	TY-4	TYPICAL SECTIONS
16	TY-5	TYPICAL SECTIONS
17	TY-6	TYPICAL SECTIONS
18	TY-7	TYPICAL SECTIONS
18A	TY-7A	TYPICAL SECTIONS
19	R-1	REMOVAL PLAN "LVB" 15+50.00 TO "LVB" 22+50.00
20	R-2	REMOVAL PLAN "LVB" 22+50.00 TO "LVB" 28+50.00
21	R-3	REMOVAL PLAN "LVB" 28+50.00 TO "LVB" 36+00.00
22	R-4	REMOVAL PLAN "LVB" 36+00.00 TO "LVB" 42+50.00
23	R-5	REMOVAL PLAN "LVB" 42+50.00 TO "LVB" 48+50.00
24	R-6	REMOVAL PLAN "LVB" 48+50.00 TO "LVB" 54+50.00
25	R-7	REMOVAL PLAN "LVB" 54+50.00 TO "LVB" 61+00.00
26	R-8	REMOVAL PLAN "LVB" 61+00.00 TO "LVB" 67+50.00
27	R-9	REMOVAL PLAN "LVB" 67+50.00 TO "LVB" 73+50.00
28	R-10	REMOVAL PLAN "LVB" 73+50.00 TO "LVB" 81+00.00
29	R-11	REMOVAL PLAN "LVB" 81+00.00 TO "LVB" 88+50.00
30	R-12	REMOVAL PLAN "LVB" 88+50.00 TO "LVB" 96+00.00
31	R-13	REMOVAL PLAN "LVB" 96+00.00 TO "LVB" 103+50.00
32	R-14	REMOVAL PLAN "LVB" 103+50.00 TO "LVB" 111+00.00
33	R-15	REMOVAL PLAN "LVB" 111+00.00 TO "LVB" 118+50.00
34	R-16	REMOVAL PLAN "LVB" 118+50.00 TO "LVB" 126+00.00

SHT. NO.	DWG. NO.	DESCRIPTION
35	R-17	REMOVAL PLAN "LVB" 126+00.00 TO "LVB" 130+00.00 & "RR" 14+00.00 TO "RR" 17+50.00
36	R-18	REMOVAL PLAN "LVB" 242+50.00 TO "LVB" 248+50.00
37	R-19	REMOVAL PLAN "LVB" 248+50.00 TO "LVB" 254+50.00
37A	R-19A	REMOVAL PLAN "SM" 10+00.00 TO "SM" 15+00.00
37B	R-19B	REMOVAL PLAN "SM" 15+00.00 TO "SM" 19+50.00
37C	R-19C	REMOVAL PLAN "SA" 52+00.00 TO "SA" 56+00.00
37D	R-19D	REMOVAL PLAN "SA" 56+00.00 TO "SA" 61+00.00
37E	R-19E	REMOVAL PLAN "SA" 61+00.00 TO "SA" 66+50.00
37F	R-19F	REMOVAL PLAN "SA" 66+50.00 TO "SA" 73+00.00
38	C-1	CONSTRUCTION PLAN "LVB" 15+50.00 TO "LVB" 22+50.00
39	C-2	CONSTRUCTION PLAN "LVB" 22+50.00 TO "LVB" 28+50.00
40	C-3	CONSTRUCTION PLAN "LVB" 28+50.00 TO "LVB" 36+00.00
41	C-4	CONSTRUCTION PLAN "LVB" 36+00.00 TO "LVB" 42+50.00
42	C-5	CONSTRUCTION PLAN "LVB" 42+50.00 TO "LVB" 48+50.00
43	C-6	CONSTRUCTION PLAN "LVB" 48+50.00 TO "LVB" 54+50.00
44	C-7	CONSTRUCTION PLAN "LVB" 54+50.00 TO "LVB" 61+00.00
45	C-8	CONSTRUCTION PLAN "LVB" 61+00.00 TO "LVB" 67+50.00
46	C-9	CONSTRUCTION PLAN "LVB" 67+50.00 TO "LVB" 73+50.00
47	C-10	CONSTRUCTION PLAN "LVB" 73+50.00 TO "LVB" 81+00.00
48	C-11	CONSTRUCTION PLAN "LVB" 81+00.00 TO "LVB" 88+50.00
49	C-12	CONSTRUCTION PLAN "LVB" 88+50.00 TO "LVB" 96+00.00
50	C-13	CONSTRUCTION PLAN "LVB" 96+00.00 TO "LVB" 103+50.00
51	C-14	CONSTRUCTION PLAN "LVB" 103+50.00 TO "LVB" 111+00.00
52	C-15	CONSTRUCTION PLAN "LVB" 111+00.00 TO "LVB" 118+50.00
53	C-16	CONSTRUCTION PLAN "LVB" 118+50.00 TO "LVB" 126+00.00
54	C-17	CONSTRUCTION PLAN "LVB" 126+00.00 TO "LVB" 130+00.00 & "RR" 14+00.00 TO "RR" 17+40.00
55	C-18	CONSTRUCTION PLAN "LVB" 242+50.00 TO "LVB" 248+50.00

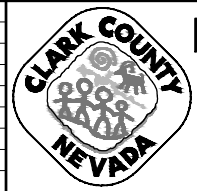
SHT. NO.	DWG. NO.	DESCRIPTION
56	C-19	CONSTRUCTION PLAN "LVB" 248+50.00 TO "LVB" 254+50.00
56A	C-19A	CONSTRUCTION PLAN "SM" 10+00.00 TO "SM" 15+00.00
56B	C-19B	CONSTRUCTION PLAN "SM" 15+00.00 TO "SM" 19+50.00
56C	C-19C	CONSTRUCTION PLAN "SA" 52+00.00 TO "SA" 56+00.00
56D	C-19D	CONSTRUCTION PLAN "SA" 56+00.00 TO "SA" 61+00.00
56E	C-19E	CONSTRUCTION PLAN "SA" 61+00.00 TO "SA" 66+50.00
56F	C-19F	CONSTRUCTION PLAN "SA" 66+50.00 TO "SA" 73+00.00
57	B-1	BOLLARD PLAN "LVB" 82+25.00 TO "LVB" 84+75.00
58	B-2	BOLLARD PLAN "LVB" 88+75.00 TO "LVB" 91+25.00
59	B-3	BOLLARD PLAN "LVB" 98+00.00 TO "LVB" 100+50.00
60	B-4	BOLLARD PLAN "LVB" 100+50.00 TO "LVB" 103+00.00
61	B-5	BOLLARD PLAN "LVB" 81+25.00 TO "LVB" 82+50.00 & "LVB" 103+00.00 TO "LVB" 104+25.00
62	B-6	BOLLARD PLAN "LVB" 83+00.00 TO "LVB" 85+50.00
63	B-7	BOLLARD PLAN "LVB" 85+50.00 TO "LVB" 88+00.00
64	B-8	BOLLARD PLAN "LVB" 96+25.00 TO "LVB" 97+50.00
65	B-9	BOLLARD PLAN "LVB" 97+50.00 TO "LVB" 100+00.00
66	B-10	BOLLARD PLAN "LVB" 100+00.00 TO "LVB" 102+50.00
67	B-11	BOLLARD PLAN "LVB" 244+75.00 TO "LVB" 247+25.00
68	DT-1	CONSTRUCTION DETAILS
69	DT-2	CONSTRUCTION DETAILS
70	DT-3	CONSTRUCTION DETAILS
71	DT-4	CONSTRUCTION DETAILS
72	DT-5	CONSTRUCTION DETAILS
73	DT-6	CONSTRUCTION DETAILS
74	DT-7	CONSTRUCTION DETAILS
75	S-1	GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS
76	S-2	CHANNEL STRUCTURAL NOTES AND TYPICAL DETAILS
77	S-3	CHANNEL DETAILS I
77A	S-3A	CHANNEL DETAILS II
78	S-4	CHANNEL DETAILS III
79	S-5	JUNCTION STRUCTURE #2
80	S-6	JUNCTION STRUCTURE #3
81	S-7	JUNCTION STRUCTURE #1

SHT. NO.	DWG. NO.	DESCRIPTION
82	DG-1	DETAILED GRADING PLAN "LVB" 45+00.00 TO "LVB" 51+25.00
83	DG-2	DETAILED GRADING PLAN "LVB" 51+25.00 TO "LVB" 57+50.00
84	DG-3	DETAILED GRADING PLAN "LVB" 57+50.00 TO "LVB" 63+75.00
85	DG-4	DETAILED GRADING PLAN "LVB" 73+00.00 TO "LVB" 79+25.00
86	DG-5	DETAILED GRADING PLAN "LVB" 81+50.00 TO "LVB" 87+75.00
87	DG-6	DETAILED GRADING PLAN "LVB" 96+25.00 TO "LVB" 102+50.00
88	DG-7	DETAILED GRADING PLAN
89	DG-8	DETAILED GRADING PLAN
90	DG-9	DETAILED GRADING PLAN
91	DG-10	DETAILED GRADING PLAN
92	SD-1	STORM DRAIN PLAN AND PROFILE "LVB" 43+50.00 TO "LVB" 53+29.00
93	SD-2	STORM DRAIN PLAN AND PROFILE "LVB" 53+29.00 TO "LVB" 62+77.00
93A	SD-2A	STORM DRAIN PLAN AND PROFILE "LVB" 62+77.00 TO "LVB" 72+23.00
93B	SD-2B	STORM DRAIN PLAN AND PROFILE "LVB" 72+23.00 TO "LVB" 80+00.00
94	SD-3	STORM DRAIN PLANS AND PROFILES LATERALS 1 & 2
95	SD-4	STORM DRAIN PLANS AND PROFILES LATERALS 3 & 4
96	SD-5	STORM DRAIN PLAN AND PROFILE LATERAL 5 & 6
97	SS-1	SANITARY SEWER PLAN AND PROFILE "LVB" 97+50.00 TO "LVB" 18+00.00
98	SS-2	SANITARY SEWER PLAN AND PROFILE "LVB" 18+00.00 TO "LVB" 27+00.00
99	SS-3	SANITARY SEWER PLAN AND PROFILE "LVB" 27+00.00 TO "LVB" 36+00.00
100	SS-4	SANITARY SEWER PLAN AND PROFILE "LVB" 36+00.00 TO "LVB" 45+00.00
101	SS-5	SANITARY SEWER PLAN AND PROFILE "LVB" 45+00.00 TO "LVB" 54+00.00
102	SS-6	SANITARY SEWER PLAN AND PROFILE "LVB" 54+00.00 TO "LVB" 63+00.00
103	SS-7	SANITARY SEWER PLAN AND PROFILE "LVB" 63+00.00 TO "LVB" 66+00.00
104	SS-8	SANITARY SEWER LATERAL PROFILES "SS1" "SS2" & "SS3"
105	SS-9	SANITARY SEWER DETAILS I
106	SS-10	SANITARY SEWER DETAILS II
107	SS-11	FIRE STATION 11; SANITARY SEWER LATERAL PLAN AND PROFILE
108	U-1	UTILITY PLAN "LVB" 88+50.00 TO "LVB" 89+75.00 & "LVB" 97+50.00 TO "LVB" 98+75.00
109	TS-1	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/TOWN SQUARE

SHT. NO.	DWG. NO.	DESCRIPTION
110	TS-2	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/TOWN SQUARE
111	TS-3	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/SUNSET ROAD
112	TS-4	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/SUNSET ROAD
113	TS-5	TRAFFIC SIGNAL MODIFICATION PLAN PEDESTRIAN CROSSING AT WELCOME TO LV SIGN
114	TS-6	TRAFFIC SIGNAL SCHEDULES AND DETAILS PEDESTRIAN CROSSING AT WELCOME TO LV SIGN
115	TS-7	TRAFFIC SIGNAL MODIFICATION PLAN EMERGENCY SIGNAL AT FIRE STATION 11
116	TS-8	TRAFFIC SIGNAL SCHEDULES AND DETAILS EMERGENCY SIGNAL AT FIRE STATION 11
117	TS-9	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/RUSSELL ROAD
118	TS-10	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/RUSSELL ROAD
119	TS-11	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/RUSSELL ROAD
120	COM-1	COMMUNICATION PLAN "LVB" 42+50.00 TO "LVB" 60+50.00
121	COM-2	COMMUNICATION PLAN "LVB" 60+50.00 TO "LVB" 78+50.00
122	COM-3	COMMUNICATION PLAN "LVB" 78+50.00 TO "LVB" 96+50.00
123	COM-4	COMMUNICATION PLAN "LVB" 96+50.00 TO "LVB" 109+50.00
124	COM-5	COMMUNICATION PLAN "LVB" 242+50.00 TO "LVB" 251+00.00
125	COM-6	COMMUNICATION PLAN "LVB" 251+00.00 TO "LVB" 258+00.00
126	CDT-1	OPEN TRENCH INSTALLATION DETAILS
127	CDT-2	OPEN TRENCH INSTALLATION DETAILS
128	CDT-3	OPEN TRENCH INSTALLATION DETAILS
129	CDT-4	6"X6" COMMUNICATION MANHOLE DETAILS
130	CDT-5	4"X4" F.A.S.T. MANHOLE DETAILS
131	CDT-6	4"X4"X4" VERIZON MANHOLE DETAILS
132	CDT-7	COX/VERIZON DETAILS
133	CDT-8	UPRR BORE DETAIL
134	CDT-9	SMART POLE DETAIL
135	CDT-10	SMART POLE LAYOUT
136	CDT-11	LANDSCAPE LIGHT TYPICAL/OBSTRUCTION LIGHT DETAIL
137	CDT-12	STRUCTURAL DETAILS
138	SL-1	STREET LIGHTING/ELECTRICAL PLAN "LVB" 12+50.00 TO "LVB" 30+50.00
139	SL-2	STREET LIGHTING/ELECTRICAL PLAN "LVB" 30+50.00 TO "LVB" 48+50.00
140	SL-3	STREET LIGHTING/ELECTRICAL PLAN "LVB" 48+50.00 TO "LVB" 66+50.00
141	SL-4	STREET LIGHTING/ELECTRICAL PLAN "LVB" 66+50.00 TO "LVB" 84+50.00

SHT. NO.	DWG. NO.	DESCRIPTION
142	SL-5	STREET LIGHTING/ELECTRICAL PLAN "LVB" 84+50.00 TO "LVB" 104+50.00
143	SL-6	STREET LIGHTING/ELECTRICAL PLAN "LVB" 104+50.00 TO "LVB" 113+50.00
144	SL-7	STREET LIGHTING/ELECTRICAL PLAN "LVB" 242+50.00 TO "LVB" 251+00.00
145	SL-8	STREET LIGHTING/ELECTRICAL PLAN "LVB" 251+00.00 TO "LVB" 258+00.00
146	SL-9	CIRCUIT CAPACITY VERIFICATIONS
147	ST-1	SIGNING AND STRIPING PLAN "LVB" 15+50.00 TO "LVB" 33+50.00
148	ST-2	SIGNING AND STRIPING PLAN "LVB" 33+50.00 TO "LVB" 51+50.00
149	ST-3	SIGNING AND STRIPING PLAN "LVB" 51+50.00 TO "LVB" 69+50.00
150	ST-4	SIGNING AND STRIPING PLAN "LVB" 69+50.00 TO "LVB" 87+50.00
151	ST-5	SIGNING AND STRIPING PLAN "LVB" 87+50.00 TO "LVB" 107+50.00
152	ST-6	SIGNING AND STRIPING PLAN "LVB" 107+50.00 TO "LVB" 125+50.00
153	ST-7	SIGNING AND STRIPING PLAN "LVB" 125+50.00 TO "LVB" 150+00.00 "SR" 16+50.00 TO "SR" 18+25.00 & "RR" 13+25.00 TO "RR" 17+45.00
154	ST-8	SIGNING AND STRIPING DETAILS
155	ST-9	SIGN DETAILS
156	ST-10	SIGN DETAILS
157	ST-11	SIGN STRUCTURE DETAILS
158	ST-12	SIGN STRUCTURE DETAILS
159	ST-13	SIGNING AND STRIPING PLAN "LVB" 238+00.00 TO "LVB" 253+00.00
159A	ST-13A	SIGNING AND STRIPING PLAN "SM" 10+00.00 TO "SM" 20+00.00
159B	ST-13B	SIGNING AND STRIPING PLAN "SA" 51+50.00 TO "SA" 68+50.00
159C	ST-13C	SIGNING AND STRIPING PLAN "SA" 68+50.00 TO "SA" 73+00.00

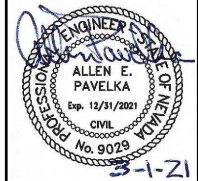
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)

KEYMAP AND INDEX OF DRAWINGS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	G-2
VERT: NONE	SHT. 2 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B) BID NO.: 605718-20

### LEGEND

<p>TEL 5-4" ——— EXISTING TELEPHONE CABLE</p> <p>12" SS ——— EXISTING SANITARY SEWER LINE</p> <p>12" W ——— EXISTING WATER LINE</p> <p>18" SD ——— EXISTING STORM DRAIN LINE</p> <p>ELE UG 1-4" ——— EXISTING ELECTRICAL LINE</p> <p>OHP ——— EXISTING OVERHEAD POWER LINE</p> <p>OHP/TEL ——— EXISTING OVERHEAD POWER AND TELEPHONE LINE</p> <p>4" PE GAS ——— EXISTING GAS LINE</p> <p>CATV ——— EXISTING CABLE TELEVISION LINE</p> <p>EXISTING CURB &amp; GUTTER</p> <p>EXISTING MANHOLE OR VAULT</p> <p>EXISTING VALVE (GAS OR WATER)</p> <p>EXISTING FIRE HYDRANT</p> <p>EXISTING CONDUIT RUN NO.</p> <p>PROPOSED CONDUIT</p> <p>EXISTING CONDUIT</p> <p>PROPERTY OR RIGHT-OF-WAY LINE</p> <p>EASEMENT LINE</p> <p>CENTERLINE</p> <p>EXISTING STREETLIGHT</p> <p>EXISTING POWER POLE</p> <p>EXISTING SERVICE PEDESTAL</p> <p>EXISTING NVE TRANSFORMER</p> <p>TEST HOLE LOCATION</p>	<p>EXISTING NO. 5 PULL BOX</p> <p>EXISTING NO. 7 PULL BOX</p> <p>EXISTING P30 PULL BOX</p> <p>EXISTING TYPE 200 SPLICE VAULT</p> <p>PROPOSED STREETLIGHT (250W LED EQUIVALENT)</p> <p>PROPOSED STREETLIGHT (400W LED EQUIVALENT)</p> <p>PROPOSED NO. 3 1/2 PULL BOX</p> <p>PROPOSED NO. 5 PULL BOX</p> <p>PROPOSED DOUBLE-STACKED NO. 7 PULL BOX</p> <p>PROPOSED P30 PULL BOX</p> <p>PROPOSED TYPE 200 SPLICE VAULT</p> <p>PROPOSED CONTROLLER CABINET</p> <p>PROPOSED SIGNAL POLE</p> <p>PROPOSED TRAFFIC SIGN</p> <p>PROPOSED STREET NAME SIGN (INTERNALLY ILLUMINATED)</p> <p>PROPOSED OPTICOM DETECTOR</p> <p>PROPOSED RED LIGHT RUNNING INDICATOR</p> <p>PROPOSED PEDESTRIAN SIGNAL HEAD</p> <p>PROPOSED PEDESTRIAN PUSH BUTTON</p> <p>PROPOSED CONDUIT RUN NO.</p> <p>PROPOSED INDUCTION LOOP (SIZE AS SHOWN)</p> <p>PROPOSED 3-SECTION SIGNAL HEAD</p>	
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### ABBREVIATIONS

<p>AASHTO AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS</p> <p>ABAN/ABN ABANDON</p> <p>ACI AMERICAN CONCRETE INSTITUTE</p> <p>ACP ASBESTOS CEMENT PIPE</p> <p>ADV ADVANCED</p> <p>AFG AT FINISH GRADE</p> <p>ANSI AMERICAN NATIONAL STANDARDS INSTITUTE</p> <p>AP ANGLE POINT</p> <p>ASTM AMERICAN SOCIETY FOR TESTING &amp; MATERIALS</p> <p>AVE AVENUE</p> <p>AWG AMERICAN WIRE GAUGE</p> <p>BC BACK OF CURB</p> <p>BLVD BOULEVARD</p> <p>BO BLOW-OFF VALVE</p> <p>BR BARRIER RAIL</p> <p>BSW BACK OF SIDEWALK</p> <p>C&amp;G CURB &amp; GUTTER</p> <p>CATV CABLE TELEVISION</p> <p>CCPW CLARK COUNTY PUBLIC WORKS</p> <p>CCRFCD CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT</p> <p>CCWRD CLARK COUNTY WATER RECLAMATION DISTRICT</p> <p>CG CROSS GUTTER</p> <p>CL CENTERLINE</p> <p>CLR CLEAR</p> <p>CO CLEAN OUT</p> <p>CP CATHODIC PROTECTION</p> <p>DCSWCS DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS</p> <p>DESC DESCRIPTION</p> <p>DET DETECTION</p> <p>DI DROP INLET</p> <p>DIA DIAMETER</p> <p>DS DOUBLE STACK</p> <p>DSRC DIGITAL SHORT RANGE COMMUNICATION</p> <p>DWG DRAWING</p> <p>E EAST</p>	<p>EA EACH</p> <p>EG EXISTING GRADE</p> <p>ELEC ELECTRIC</p> <p>EOP EDGE OF PAVEMENT</p> <p>ESMT EASEMENT</p> <p>EX/EXIST EXISTING</p> <p>FAST FREEWAY &amp; ARTERIAL SYSTEM OF TRANSPORTATION</p> <p>FC FACE OF CURB</p> <p>FG FINISHED GRADE</p> <p>FH FIRE HYDRANT</p> <p>FL FLOWLINE</p> <p>FO FIBER OPTIC</p> <p>FT FEET</p> <p>FYA FLASHING YELLOW ARROW</p> <p>G GAS</p> <p>GB GRADE BREAK</p> <p>GND GROUND</p> <p>GPS GLOBAL POSITIONING SYSTEM</p> <p>GR GRADE</p> <p>GV GAS VALVE</p> <p>H HEIGHT</p> <p>HDPE HIGH DENSITY POLYETHYLENE</p> <p>HP HIGH POINT OR HIGH PRESSURE</p> <p>INV INVERT</p> <p>ITS INTELLIGENT TRANSPORTATION SYSTEM</p> <p>LF LINEAR FOOT</p> <p>LP LOW POINT</p> <p>LT LEFT</p> <p>LUM LUMINAIRE</p> <p>LVVWD LAS VEGAS VALLEY WATER DISTRICT</p> <p>M.A. MAST ARM</p> <p>MAX MAXIMUM</p> <p>MIN MINIMUM</p> <p>MMU MALFUNCTION MANAGEMENT UNIT</p> <p>MOD MODIFIED</p> <p>N NORTH</p> <p>NDOT NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>NO. NUMBER</p> <p>NTS NOT TO SCALE</p>	<p>NVE NV ENERGY</p> <p>O.D. OUTSIDE DIAMETER</p> <p>OH OVERHEAD</p> <p>OHP OVERHEAD POWER</p> <p>OP OPTICOM</p> <p>P.B. PULLBOX</p> <p>PBS PLANTMIX BITUMINOUS SURFACE</p> <p>PC POINT OF CURVE</p> <p>PCC POINT OF COMPOUND CURVE</p> <p>PCF POUNDS PER CUBIC FOOT</p> <p>PE POLYETHYLENE OR PERMANENT EASEMENT</p> <p>PED PEDESTRIAN</p> <p>PLT PLATE</p> <p>PMF PAVEMENT MARKING FILM</p> <p>PP POWER POLE</p> <p>PPB PEDESTRIAN PUSH BUTTON</p> <p>PPM POLYUREA PAVEMENT MARKINGS</p> <p>PR PAIR</p> <p>PRC POINT OF REVERSE CURVE</p> <p>PSF POUNDS PER SQUARE FOOT</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>PT POINT OF TANGENT</p> <p>PVC POLYVINYL CHLORIDE</p> <p>PVMT PAVEMENT</p> <p>QUAD QUADRANT</p> <p>R RADIUS</p> <p>R/W RIGHT-OF-WAY</p> <p>RCP REINFORCED CONCRETE PIPE</p> <p>RP RADIAL POINT</p> <p>RPM RAISED PAVEMENT MARKINGS</p> <p>RR RAILROAD</p> <p>RT RIGHT</p> <p>RTC REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA</p> <p>RW RETAINING WALL</p> <p>S SOUTH</p> <p>SP SERVICE PEDESTAL</p> <p>S.V. SPLICE VAULT</p> <p>SCH SCHEDULE</p> <p>SCTE SOCIETY OF CABLE TELECOMMUNICATIONS ENGINEERS</p>	<p>SD STORM DRAIN</p> <p>SDMH STORM DRAIN MANHOLE</p> <p>SHLDR SHOULDER</p> <p>SHT SHEET</p> <p>SIG SIGNAL</p> <p>SS SANITARY SEWER</p> <p>SSMH SANITARY SEWER MANHOLE</p> <p>ST STREET</p> <p>STA STATION</p> <p>STD STANDARD</p> <p>STL STEEL</p> <p>STLT STREETLIGHT</p> <p>SW SIDEWALK</p> <p>SWG SOUTHWEST GAS</p> <p>TC TOP OF CURB</p> <p>TCE TEMPORARY CONSTRUCTION EASEMENT</p> <p>TEL TELEPHONE</p> <p>T.O.P. TOP OF PIPE</p> <p>TW TOP OF WALL</p> <p>TYP TYPICAL</p> <p>UDACS UNIFORM DESIGN AND CONSTRUCTION STANDARDS</p> <p>UG UNDERGROUND</p> <p>UPRR UNION PACIFIC RAILROAD</p> <p>USDCCA UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</p> <p>UTACS ULTRATHIN ASPHALT CONCRETE SURFACING</p> <p>VCP VITRIFIED CLAY PIPE</p> <p>VLT VAULT</p> <p>W WEST OR WATER OR WHITE</p> <p>W/ WITH</p> <p>WTR WATER</p> <p>WV WATER VALVE</p> <p>Y YELLOW</p>
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### RTC TRANSIT NOTES

- THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY BUS STOPS AND BUS STOP AMENITIES SHALL BE AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY RTC TRANSIT OF PROPOSED BUS STOP CLOSURES AND/OR BUS STOP AMENITY DISRUPTIONS VIA NOTIFYRTCTRANSIT@RTC.NV.COM AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. NOTIFICATION OF BUS STOP CLOSURES INVOLVING REMOVAL OF EXISTING AMENITIES SHALL BE PROVIDED TO RTC TRANSIT AT LEAST 10 CALENDAR DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURE SCHEDULE TO RTC TRANSIT WITH THE APPROVED TRAFFIC CONTROL PLAN AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY THE DURATION OF PROPOSED BUS STOP CLOSURES AND TEMPORARY BUS STOP RELOCATIONS AND TIMES OF DAY THAT STOPS ARE EXPECTED TO BE IMPACTED BY THE WORK. ALL BUS STOP CLOSURES, TEMPORARY BUS STOPS, AND TEMPORARY BUS TURN OUTS MUST BE APPROVED BY RTC TRANSIT STAFF PRIOR TO THE START OF WORK.

REVISED: JANUARY 24, 2019

### RTC FAST NOTES

- CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. LONNIE BROWN (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-290-1979 CELL OR AT 702-432-5300 GENERAL.
- IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT, SPLICED AND OR PULLED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. LONNIE BROWN TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION.
- CONTRACTOR MUST NOTIFY MR. LONNIE BROWN AT 702-290-1979 CELL, 702-432-5300 GENERAL, OR AT BROWN@RTC.NV.COM, ONCE ALL PROJECT ITS FIBER OPTIC WORK IS COMPLETE. A COPY OF AS-BUILT DRAWINGS MUST BE PROVIDED TO RTC/FAST UPON COMPLETION OF PROJECT.

### LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVVWD PROJECT #137390

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
- ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
- THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

NO LEAD COMPLIANCE NOTE: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

REVISED 08/01/2017

SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

**PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20**

DWG. NOS. COVER, G-3, R-1, R-2, R-3, R-4, R-5, R-6, R-7, R-8, R-9, R-10, R-11, R-12, R-13, R-14, R-15, R-16, R-17, R-18, R-19, R-19A, R-19B, R-19C, R-19D, R-19E, R-19F, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-13, C-14, C-15, C-16, C-17, C-18, C-19, C-19A, C-19B, C-19C, C-19D, C-19E, C-19F, DT-7, B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, SD-1, SD-2, SD-2A, SD-2B, SD-3, SD-4, SD-5, SS-1, SS-2, SS-3, SS-4, SS-5, SS-6, SS-7, SS-8, SS-11, U-1, TS-1, TS-3, TS-5, TS-7, TS-9, COM-1, COM-2, COM-3, COM-4, COM-5, COM-6, CDT-8, SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-7, SL-8

### BASIS OF BEARING

SOUTH 001°4'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODTIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON THE "RECORD OF SURVEY FOR CLARK COUNTY, LAS VEGAS VALLEY GEODETIC CONTROL NETWORK, CLARK COUNTY, NEVADA", AS SHOWN IN FILE 88, PAGE 53 OF SURVEYS, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

### BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "4C1133NWS", BEING A RIVET AND SQUARE ALUMINUM PLATE IN TOP OF A CURB AT THE EAST SIDE OF LAS VEGAS BOULEVARD, 150' SOUTH OF RUSSELL ROAD.

ELEVATION: 2161.10 (FEET) (CALCULATED)  
658.705 (METERS)

CLARK COUNTY VERTICAL CONTROL V.2018, BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

### FOR ALL DRY UTILITY CROSSINGS

-MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING

-ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

### SOUTHWEST GAS CONSTRUCTION NOTES

- IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
- MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS
- FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION
- IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099
- FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES CONTACT 702-278-8451 48 HOURS PRIOR TO CONSTRUCTION

ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.

THE AFFIXED CENTRAL TELEPHONE COMPANY d/b/g CENTURY LINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

NV ENERGY ACKNOWLEDGES THAT WE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

### CLARK COUNTY WATER RECLAMATION DISTRICT (CCWRD) GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFIRM TO THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, LATEST EDITION AND THE UNIFORM STANDARDS FOR PUBLIC WORKS OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION.
- ANY CONFLICT BETWEEN THESE DOCUMENTS AND THE STANDARDS REFERENCED IN NOTE 1 MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PERFORMING ANY WORK.
- ALL REVISIONS OF THE APPROVED PLANS MUST BE SUBMITTED TO THE CLARK COUNTY WATER RECLAMATION DISTRICT (DISTRICT) FOR REVIEW AND BE APPROVED PRIOR TO PROCEEDING WITH THE WORK. ALL WORK CONSTRUCTED WITHOUT THE APPROVAL OF THE DISTRICT MUST BE REMOVED AT THE CONTRACTORS EXPENSE.
- ALL SANITARY SEWERS SHALL BE PVC SDR-35 SOLID WALL UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER MAINS 8-INCHES AND LARGER AND ALL STUBS 8-INCHES AND LARGER ENTIRELY WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PUBLIC UNLESS OTHERWISE NOTED. ALL ON-SITE SEWER INFRASTRUCTURE SHALL BE PRIVATE UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER MAINS SHALL BE THE SAME MATERIAL, SIZE, & SLOPE BETWEEN MANHOLES.
- ALL SEWER MAINS SHALL BE IN THEIR OWN TRENCHES. THERE WILL NO NO SHARED TRENCHES ALLOWED.
- THE MINIMUM SLOPES FOR ALL PIPES SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
- ALL SANITARY SEWER MANHOLES MUST BE LOCATED SUCH THAT THEY ARE ACCESSIBLE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
- A DEBRIS TRAP MUST BE INSTALLED IN THE EXISTING SYSTEM AT THE POINT OF CONNECTION IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
- ALL EXISTING MANHOLE CORROSION PROTECTION SYSTEMS MUST BE RESTORED TO THEIR ORIGINAL CONDITION, IF MODIFIED.
- LOCATOR RIBBON AND MARKER BALLS SHALL BE PLACED ABOVE ALL NEW SEWER MAINS AND LATERALS IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
- ALL EXISTING GRADE MUST BE RAISED TO WITHIN 18-INCHES OF FINAL GRADE PRIOR TO ANY SEWER TRENCHING.
- PRIVATE SANITARY SEWER NOT REVIEWED OR APPROVED BY CCWRD.

I CERTIFY THAT THE ONLY DEVIATIONS FROM THE DESIGN AND CONSTRUCTION STANDARDS THAT ARE APPROVED BY THE CCWRD ARE LISTED BELOW:

- NONE

3-1-21  
DATE

SIGNED BY CHRISTIAN KESSLER ON 11/12/20  
CLARK COUNTY WATER RECLAMATION DISTRICT DATE  
CCWRD PIPES NUMBER: 20.793

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

### CCWRD MH SCHEDULE

COUNT #	MH #	SHEET #	CORROSION PROTECTION*	NOTE
1	TH014	VARIOUS	N	ADJUST TO GRADE
2	TH014A	VARIOUS	N	ADJUST TO GRADE
3	TH018	VARIOUS	N	PROTECT-IN-PLACE
4	TH019	VARIOUS	N	ADJUST TO GRADE
5	TH020	VARIOUS	N	PROTECT-IN-PLACE
6	TH021	VARIOUS	N	PROTECT-IN-PLACE
7	AIP4	VARIOUS	N	PROTECT-IN-PLACE
8	MW06	VARIOUS	N	PROTECT-IN-PLACE
9	MW07	VARIOUS	N	ADJUST TO GRADE
10	MW08	VARIOUS	N	ADJUST TO GRADE
11	MW09	VARIOUS	N	ADJUST TO GRADE
12	SUB3	VARIOUS	N	ADJUST TO GRADE AND RESHAPE BASE
13	SUB2	VARIOUS	N	ADJUST TO GRADE
14	SUB1	VARIOUS	N	PROTECT-IN-PLACE
15	N6	VARIOUS	N	ADJUST TO GRADE
16	N6A	VARIOUS	N	ADJUST TO GRADE
17	N6B	VARIOUS	N	ADJUST TO GRADE
18	N7	VARIOUS	N	ADJUST TO GRADE
19	T75	VARIOUS	N	ADJUST TO GRADE
20	T75A	VARIOUS	N	ADJUST TO GRADE
21	T76	VARIOUS	N	ADJUST TO GRADE
22	SCH1	VARIOUS	N	ADJUST TO GRADE

\*CONTRACTOR TO FIELD VERIFY IF MANHOLE IS CORROSION PROTECTED AND PROVIDE CORROSION PROTECTED MANHOLE GRADE RINGS FOR ADJUSTMENTS.

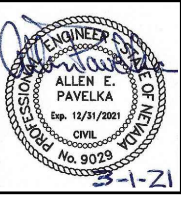
REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### LEGEND, ABBREVIATIONS, AND GENERAL NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA SCALE: \_\_\_\_\_ DRAWING NO. \_\_\_\_\_

DESIGNED BY: DSH CHECKED BY: AEP HORIZ: NONE

APPROVED BY: \_\_\_\_\_ VERT: NONE

**GCV**  
ENGINEERS SURVEYORS

1555 S. RAINBOW BLVD.  
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F: 702.804.2299  
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FIELD BOOK \_\_\_\_\_

SHT. 3 OF 159

L-2272



SANITARY SEWER MANHOLE SCHEDULE							
SSMH #	STATION & OFFSET	NORTHING	EASTING	RIM	SIZE	INV IN	INV OUT
17705015	72+83.83, 82.09' LT	735216.0106	77585.9495	2182.57	72"	INV: 2172.76 W INV: 2172.04 S	INV: 2171.84 N
17705016	76+94.07, 86.51' LT	735626.1850	77577.3694	2178.46	72"	INV: 2167.89 S	INV: 2167.69 N
17705017	81+94.04, 91.90' LT	736126.0756	77566.9125	2175.20	60"	INV: 2162.69 S	INV: 2162.69 N
17705018	86+94.01, 97.29' LT	736625.9663	77556.4556	2172.53	60"	INV: 2157.69 S	INV: 2157.69 N
17705019	90+93.98, 102.14' LT	737025.8672	77547.5555	2169.26	72"	INV: 2153.69 S INV: 2154.94 W	INV: 2153.49 N
17705020	92+21.10, 102.98' LT	737152.9679	77545.4316	2167.87	72"	INV: 2152.58 S INV: 2153.33 W	INV: 2152.38 N
17705021	94+35.00, 105.28' LT	737366.8320	77540.9579	2165.61	72"	INV: 2150.77 S INV: 2151.85 E	INV: 2150.57 N
17705022	95+84.13, 95.64' LT	737516.0581	77549.0923	2164.45	72"	INV: 2148.60 S	INV: 2148.40 N
17705023	99+34.54, 99.32' LT	737866.4127	77541.8622	2161.39	72"	INV: 2145.99 S INV: 2147.07 SW	INV: 2145.79 N
17705024	101+57.29, 110.75' LT	738089.0292	77528.1740	2160.26	72"	INV: 2144.46 S	INV: 2144.26 N
17705025	105+79.66, 110.75' LT	738511.3849	77523.8943	2157.80	72"	INV: 2142.15 S	INV: 2141.95 N
17705026	107+03.63, 123.01' LT	738635.2173	77510.3764	2156.57	72"	INV: 2141.33 S	INV: 2141.13 N
17705027	111+39.69, 115.07' LT	739071.3368	77513.9010	2151.54	72"	INV: 2138.95 S	INV: 2138.75 N
17705028	115+43.15, 109.66' LT	739474.8325	77515.2209	2146.92	60"	INV: 2135.33 S	INV: 2135.33 N
17705029	119+43.15, 107.60' LT	739874.8275	77513.2280	2142.68	60"	INV: 2131.93 S	INV: 2131.93 N
17705030	123+43.15, 107.74' LT	740274.8056	77509.0372	2140.81	72"	INV: 2128.53 S	INV: 2128.33 N
17705031	126+81.12, 107.86' LT	740612.7620	77505.4963	2139.98	72"	INV: 2125.46 S	INV: 2125.26 N
17705032	127+84.99, 63.99' RT	740717.0681	77548.3082	2140.24	96"	INV: 2124.51 S INV: 2123.26 W	INV: 2123.26 E
17705033	72+75.64, 90.50' RT	735209.1685	77718.6157	2182.93	60"	---	INV: 2170.43 E
17705034	99+22.35, 109.33' LT	737854.1192	77531.9717	2161.34	60"	INV: 2151.17 W	INV: 2150.97 NE

**STRUCTURE NOTE:**

MANHOLE RIM ELEVATIONS ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. ALL MANHOLE RIMS AND COVERS MUST BE ADJUSTED TO MATCH FINISH GRADE AT TIME OF CONSTRUCTION.

**QUANTITY ESTIMATE**

NOTE: CONTRACTOR TO VERIFY QUANTITIES FOR BIDDING PURPOSES

SEWER DESCRIPTION	(PUBLIC)		(PRIVATE)	
	UNIT	TOTAL	UNIT	TOTAL
6" PVC SANITARY SEWER LATERAL	LF	---	LF	188
8" PVC SANITARY SEWER LATERAL	LF	161	LF	---
8" PVC SANITARY SEWER PIPE	LF	30	LF	---
12" PVC SANITARY SEWER PIPE	LF	18	LF	---
21" PVC SANITARY SEWER PIPE	LF	5,535	LF	---
60" DIA. SANITARY SEWER MANHOLE	EA	6	EA	---
72" DIA. SANITARY SEWER MANHOLE	EA	13	EA	---
96" DIA. SANITARY SEWER MANHOLE	EA	1	EA	---
16" STEEL SLEEVE	LF	---	LF	87
36" STEEL SLEEVE	LF	105	LF	---
MODIFY LANDSCAPING AT FIRE STATION 11	LS	---	LS	1

NOTE: ALL PIPE LENGTHS ARE REPORTED AS CENTER TO CENTER OF STRUCTURE. CONTRACTOR TO BE PAID PER PIPE LENGTH INSTALLED.

**CLARK COUNTY FIRE DEPARTMENT NOTES**

- GENERAL**
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS) AS ADOPTED BY CLARK COUNTY AND THE CURRENTLY ADOPTED EDITION OF NFPA 24.
  - FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE INSTALLED, INSPECTED BY FIRE PREVENTION AND IN SERVICE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 OF THE IFC, AS AMENDED. FIRE HYDRANTS SHALL BE WITHIN 300 FEET OF COMBUSTIBLE MATERIALS.
  - IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE CGDFP PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.
- FIRE HYDRANTS**
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF UDACS, NFPA 24 AND THIS GUIDELINE. FIRE HYDRANTS SHALL BE MAINTAINED IN ACCORDANCE WITH NFPA 25 AND KEPT IN AN OPERATIVE CONDITION WITH THE REQUIRED WATER SUPPLY.
  - MANUFACTURER AND MODEL OF FIRE HYDRANTS SHALL CONFORM TO THE APPROVED MATERIALS LIST OF THE LAS VEGAS VALLEY WATER DISTRICT.
  - HYDRANTS SHALL BE INSTALLED WITH THEIR PUMPER OUTLET NOZZLE (STEAMER CONNECTION) FACING THE FIRE ACCESS ROAD. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS, WHERE HYDRANTS ARE SUBJECT TO IMPACT BY MOTOR VEHICLES, GUARD POSTS (PIPE BOLLARDS) SHALL BE INSTALLED IN ACCORDANCE WITH IFC SECTION 312.
  - HYDRANTS SHALL BE PAINTED SAFETY YELLOW FOR PUBLIC AND SAFETY RED FOR PRIVATE.
  - FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB (C102.11).
  - PAINTING OF CURBS AND/OR ASPHALT AREAS ADJACENT TO HYDRANTS SHALL BE COMPLETED BY THE INSTALLER PRIOR TO BOND RELEASE INSPECTION. A COAT OF EXTERIOR INDUSTRIAL GRADE SAFETY RED ENAMEL SHALL BE APPLIED FOR A MINIMUM OF 30 FEET, 15 FEET ON EACH SIDE OF THE HYDRANT.
  - HYDRANT LOCATIONS SHALL BE MARKED BY MEANS OF A BLUE REFLECTIVE PAVEMENT MARKER INSTALLED IN THE CENTER OF THE FIRE ACCESS DRIVE LANE NEAREST TO THE HYDRANT.
- FIRE DEPARTMENT CONNECTIONS:**
- FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT AS MEASURED BY AN APPROVED UNOBSTRUCTED ROUTE.
  - FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE STREET SIDE OF BUILDINGS, FULLY VISIBLE AND RECOGNIZABLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT VEHICLE ACCESS (FIRE LANE) OR AS OTHERWISE APPROVED BY THE FIRE CHIEF.
  - FIRE DEPARTMENT CONNECTIONS SHALL NOT BE CLOSER THAN 3 FEET TO ANY DOOR OR WINDOW OPENING AND SHALL NOT BE OBSTRUCTED BY TREES, SHRUBS, PARKING SPACES, ETC.
  - FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED NOT LESS THAN 18 INCHES AND NOT MORE THAN 48 INCHES ABOVE THE LEVEL OF THE ADJACENT GRADE OR ACCESS LEVEL.
- UNDERGROUND PIPING & VALVES:**
- UNDERGROUND PIPING SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. UNDERGROUND PIPING CONNECTED TO A FIRE PUMP OR A FIRE DEPARTMENT CONNECTION (FDC) SHALL HAVE A MINIMUM WORKING PRESSURE OF 200 PSI (CLASS 200).
  - FOR PRIVATE FIRE SERVICE MAINS TWO SOURCES OF WATER SUPPLY ARE REQUIRED WHENEVER 4 OR MORE FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. WATER SYSTEMS UNDER THE PURVIEW OF THE LAS VEGAS VALLEY WATER DISTRICT SHALL CONFORM TO THE LAS VEGAS VALLEY WATER DISTRICT RULES.
  - FOR PRIVATE FIRE SERVICE MAINS SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER IN BUILDING RISERS (LEAD-INS) CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. WATER SYSTEMS UNDER THE PURVIEW OF THE LAS VEGAS VALLEY WATER DISTRICT SHALL CONFORM TO THE LAS VEGAS VALLEY WATER DISTRICT RULES.
  - ALL PIPING AND VALVES SUPPLYING FIRE SPRINKLER SYSTEMS SHALL BE PROTECTED FROM FREEZING WHEN EXPOSED TO TEMPERATURES LESS THAN 40F. FREEZE PROTECTION SHALL BE APPROVED, DURABLE AND PERMANENT.
  - ALL REQUIRED HYDROSTATIC TESTING AND FLUSHING OF THE PRIVATE FIRE SERVICE MAIN OR UNDERGROUND FIRE SPRINKLER/STANDPIPE WATER SUPPLY PIPING SHALL BE PERFORMED IN THE PRESENCE OF CLARK COUNTY FIRE PREVENTION STAFF. THE PIPING JOINTS SHALL BE UNCOVERED. THE INSTALLING CONTRACTOR SHALL FURNISH A CONTRACTOR'S MATERIAL AND TESTING CERTIFICATE (CM&T) COUNTERSIGNED BY THE PROPERTY OWNER OR REPRESENTATIVE. THE CM&T SHALL BE FILLED OUT COMPLETELY WITH THE INSPECTOR'S INITIALS, WITNESSING EACH TEST. A COPY OF THE UNDERGROUND FLUSH AND HYDROSTATIC TESTING DOCUMENTATION SHALL BE ON-SITE AND SIGNED PRIOR TO THE CONNECTION OF THE UNDERGROUND WATER SUPPLY TO THE FIRE SPRINKLER SYSTEM.
- GATES:**
- SHOP DRAWINGS FOR ALL GATES AND MOTORIZED OPENERS OBSTRUCTING FIRE DEPARTMENT ACCESS ROADS SHALL BE SUBMITTED SEPARATELY FOR REVIEW AND RECEIVE APPROVAL PRIOR TO INSTALLATION. A SEPARATE PERMIT IS REQUIRED FOR EACH GATED ENTRANCE.
- FIRE APPARATUS ACCESS ROADS:**
- SPEED BUMPS AND/OR SPEED HUMPS SHALL NOT BE PERMITTED WITHIN THE REQUIRED WIDTH OF FIRE APPARATUS ACCESS ROADS.
- EXCEPTIONS**
- SPEED BUMPS ARE ALLOWED ON PRIVATE FIRE APPARATUS ACCESS ROADS SERVING COMMERCIAL AND INDUSTRIAL BUILDINGS WHEN APPROVED BY THE FIRE CODE OFFICIAL.
  - RUMBLE STRIPS ARE ALLOWED ON PRIVATE FIRE APPARATUS ACCESS ROADS SERVING RESIDENTIAL, COMMERCIAL AND INDUSTRIAL BUILDINGS WHEN APPROVED BY THE FIRE CODE OFFICIAL.
- FOR GROUP R, DIVISION 3 STRUCTURES AND FOR STRUCTURES CONSTRUCTED IN ACCORDANCE WITH THE IRC, ROADS SERVING A MAXIMUM OF 6 RESIDENCES AND HAVING A MAXIMUM LENGTH OF 150 FEET, AS MEASURED FROM THE INTERSECTION TO THE BACK OF CURB AT THE END OF THE SUB STREET, MAY FRONT ONTO A SUB STREET WITH A MINIMUM WIDTH OF 25 FEET FROM BACK-OF-CURB TO BACK-OF-CURB, PROVIDED THAT ALL RESIDENCES FRONTING ON THE SUB STREET ARE PROVIDED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND THAT ON-STREET PARKING ON THE SUB STREET IS PROHIBITED.
- FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 33,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.
- REVISED 12/22/15

**GENERAL NOTES**

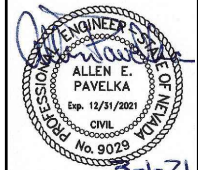
- ALL REFERENCES TO STANDARD DRAWINGS ARE TO STATE OF NEVADA STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION LATEST ENGLISH EDITION, "THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" OR "THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" AS NOTED.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PUBLIC ENTITIES, THE PROJECT ENGINEER AND CLARK COUNTY AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR FOR UTILITIES OR STRUCTURES NOT SHOWN AT ACTUAL LOCATIONS ON THE DRAWINGS. EXISTING SERVICE LATERALS ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS, OR ANY EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR BY THE ENGINEER. IN THE EVENT DAMAGE OCCURS, CONTRACTOR SHALL REPAIR DAMAGES AT NO ADDITIONAL COST TO THE OWNER. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALK, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
- THE CONTRACTOR SHALL BACKFILL AND FINE GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER. WHERE EXISTING LAWNS ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL SOD THE AFFECTED AREA TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA TRAFFIC CONTROL MANUAL", 1986 (OR LATEST REVISION), PUBLISHED BY THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE ENGINEER.
- REMOVAL OR RELOCATIONS OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES, AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES FAR ENOUGH IN ADVANCE AS TO NOT IMPACT THE SCHEDULE.
- NV ENERGY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
- POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENT SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.
- CENTURY LINK SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL TELEPHONE FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS.
- OX COMMUNICATIONS SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL CATV FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH SECTION 600 OF THE "STANDARD SPECIFICATIONS".
- EXACT LOCATIONS OF ALL SAWCUT LINES SHALL BE DETERMINED IN THE FIELD BY THE CLARK COUNTY INSPECTOR.
- CURB AND GUTTER OF A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TEST AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- OFFSET DIMENSIONS TO CURB AND GUTTER AND CURB ARE MEASURED TO BACK OF CURB.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, EXISTING CONDITIONS AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC AND PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE PROPER DRAINAGE, INGRESS AND EGRESS TO THE PROJECT.
- FINAL PLANTMIX BITUMINOUS SURFACE (PBS) PAVEMENT SHALL BE ZERO TO ONE-HALF INCH ABOVE THE LIP OF GUTTER (INCLUDING UTACS) EXCEPT AT SIDEWALK RAMP WHERE PBS PAVEMENT SHALL BE FLUSH WITH CONCRETE RAMP. PAVEMENT SURFACES SHALL BE FLUSH WITH EDGES OF CROSS GUTTERS.
- PORTLAND CEMENT CONCRETE PAVEMENT JOINTS SHALL CONFORM TO NDOT STD. PLAN CP-1 AND CP-2.
- THE CONTRACTOR SHALL MAINTAIN AN ONGOING REMOVAL PROCESS OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
- ALL EXISTING TRAFFIC SIGNS, STREET LIGHTS & SIGNS TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CLARK COUNTY TRAFFIC OPERATIONS DIVISION LOCATED AT 9935 S. JONES BLVD, LAS VEGAS, NEVADA WITHIN 48 HOURS OF THEIR REMOVAL.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING TRAFFIC SIGNS, NOT SPECIFICALLY NOTED ON THE DRAWINGS, WHICH ARE TO BE RELOCATED OR REMOVED.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED THEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
- F.A.S.T. INTELLIGENT TRANSPORTATION SYSTEM (ITS) POLICY IS IN EFFECT. COMMUNICATIONS FACILITIES, INCLUDING BUT NOT LIMITED TO, COPPER WIRE, FIBER OPTIC, MICROWAVE, AND RADIO SYSTEMS SHALL BE MAINTAINED AT ALL TIMES. ANY DAMAGE TO THE ITS SYSTEM OF COMMUNICATION CABLE IS CONSIDERED TO BE AN EMERGENCY AND LIQUIDATED DAMAGES OF \$2,500 PER DAY FOR COPPER CABLE AND \$7,500 PER DAY FOR FIBER OPTIC BREAKS SHALL BE ASSESSED TO THE CONTRACTOR BEGINNING 24 HOURS AFTER THE CONDUIT OR CABLE DAMAGE. DEVELOPER OR CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED OR REPAIRED. THE TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO CLARK COUNTY TRAFFIC MANAGEMENT, F.A.S.T., AND NDOT AND MUST BE REPORTED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. IMMEDIATELY CONTACT LONNIE BROWN, 702-290-1979 (CELL) OR 702-432-5300 (GENERAL), TO REPORT ANY DAMAGE OF EXISTING FACILITIES.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF SUSPECTED UTILITY INTERFERENCES, AND SHALL FURNISH INFORMATION ON THE SAME TO THE ENGINEER, NOT LESS THAN TEN (10) DAY PRIOR TO THE ANTICIPATED IMPACT OF THESE SUSPECTED INTERFERENCES ON HIS WORK. IF CONFLICTS EXIST, THE CONTRACTOR WILL IMMEDIATELY CONTACT THE ENGINEER AND PROVIDE THE ENGINEER WITH ALL THE NECESSARY DATA SUCH AS ELEVATIONS, HORIZONTAL LOCATIONS, ETC., AND PROVIDE THE ENGINEER WITH SKETCHES INDICATING THE PROPOSED IMPROVEMENT AND THE UTILITY CONFLICT. THE ENGINEER WILL EXAMINE AND REVIEW ALL THE DATA AND SKETCHES PROVIDED, AND WILL PROVIDE THE CONTRACTOR WITH AN ALTERNATIVE DESIGN WITHIN FIVE (5) DAYS AFTER RECEIPT OF DATA AND SKETCHES.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CALL CLARK COUNTY TRAFFIC OPERATIONS AT 702-455-7546 AND INFORM THE TRAFFIC SYSTEMS SUPERVISOR OF THE WORK START DATE FOR COORDINATION.
- THREE (3) WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND SHALL INCLUDE THE PROPOSED DATE OF COMPLETION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED. STOP SIGNS SHALL BE INSTALLED IN GROUND. NO TEMPORARY MOUNTINGS WILL BE ALLOWED.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CLARK COUNTY WATER RECLAMATION DISTRICT DESIGN AND CONSTRUCTION STANDARDS AND THE CITY OF LAS VEGAS AND CITY OF NORTH LAS VEGAS CONSTRUCTION STANDARDS.
- THE PLANS DO NOT SHOW ALL SEWER LATERALS, SEWER FORCE MAINS AND WATER SERVICE LATERALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS OR RELOCATIONS OF LATERALS BROKEN OR IN CONFLICT WITH THE PROPOSED STORM DRAIN OR ROADWAY CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE TO ALL CUSTOMERS. SEWER LATERALS CUT DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR PER CCWRD DESIGN AND CONSTRUCTION STANDARDS. CONTRACTOR SHALL IMMEDIATELY REPORT ANY SANITARY SEWER OR SEWER LATERALS THAT CANNOT BE RECONNECTED TO SEWER MAIN DUE TO STORM DRAIN CONFLICT. CLARK COUNTY SHALL BE RESPONSIBLE FOR PROVIDING RESUBMITTING APPROVED MAIN LINE SEWER EXTENSION PLANS TO PROVIDE NEW MAIN TO REROUTE ANY SEWERS THAT CANNOT BE RECONNECTED.

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
**GENERAL NOTES**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

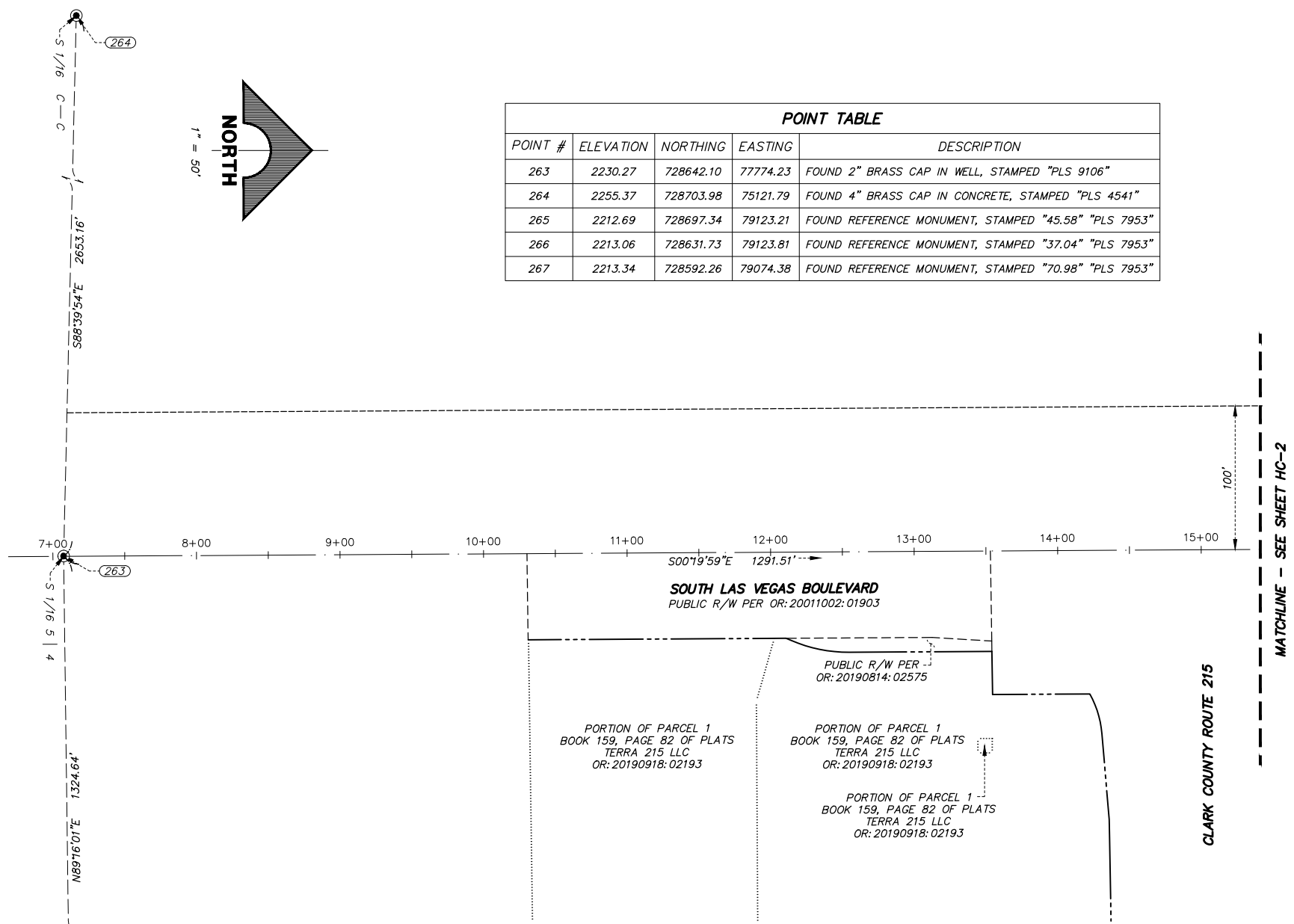


PROJECT No:	500-897-LV	DRAWN BY:	TAA		
DESIGNED BY:	DSH	CHECKED BY:	AEP		
APPROVED BY:					
				SCALE	DRAWING NO.
				FIELD BOOK	SHT. 4 OF 159

HORIZ:	NONE
VERT:	NONE
L-2272	

BID NO.: 605718-20

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POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
263	2230.27	728642.10	77774.23	FOUND 2" BRASS CAP IN WELL, STAMPED "PLS 9106"
264	2255.37	728703.98	75121.79	FOUND 4" BRASS CAP IN CONCRETE, STAMPED "PLS 4541"
265	2212.69	728697.34	79123.21	FOUND REFERENCE MONUMENT, STAMPED "45.58" "PLS 7953"
266	2213.06	728631.73	79123.81	FOUND REFERENCE MONUMENT, STAMPED "37.04" "PLS 7953"
267	2213.34	728592.26	79074.38	FOUND REFERENCE MONUMENT, STAMPED "70.98" "PLS 7953"

**SURVEYOR'S CERTIFICATE**

- I, PAUL BURN, A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEVADA, AS AGENT FOR GCW, INC., CERTIFY THAT:
- THIS SURVEY REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF CLARK COUNTY PUBLIC WORKS.
  - THE LAND SURVEYED LIES WITHIN SECTION 28, SECTION 29, SECTION 32, AND SECTION 33, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., SECTION 4 AND SECTION 5, TOWNSHIP 22 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED APRIL 21, 2020.
  - THIS SURVEY COMPLIES WITH APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATION CODE.
  - THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT DURABILITY.

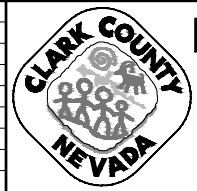
PAUL BURN, PLS  
 PROFESSIONAL LAND SURVEYOR  
 NEVADA LICENSE NO. 11174

LEGEND	
---	RIGHT-OF-WAY
---	PRIMARY CONTROL LINE
---	SECTION LINE
---	QUARTER SECTION LINE
---	16TH SECTION LINE
---	RIGHT-OF-WAY DOCUMENT LIMIT
---	STREET CENTERLINE
---	RIGHT-OF-WAY EASEMENT PER OR: 20070111:03775
---	EXISTING LOT LINE
(100)	POINT NUMBER
●	FOUND MONUMENTATION AS SHOWN AND DESCRIBED
×	CALCULATED POINT
R/W	RIGHT-OF-WAY
OR:	OFFICIAL RECORD

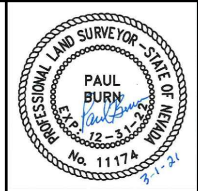
**NOTE**  
 THE HISTORICAL ALIGNMENT OF LAS VEGAS BOULEVARD WAS USED FOR THE PROJECT PER FILE 149, PAGE 88 OF SURVEYS, FILE 178 PAGE 33 OF SURVEYS AND FILE 213 PAGE 71 OF SURVEYS, ALL ON FILE AT THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE. THE COORDINATES SHOWN FOR THE CENTERLINE/SECTIONAL MONUMENTS FOUND ARE WITHIN TOLERANCES BUT OFF OF THIS ALIGNMENT SLIGHTLY, THEREFORE, INVERSING BETWEEN THEM MAY PRODUCE A SLIGHTLY DIFFERENT BEARING AND DISTANCE THAN SHOWN.

**BASIS OF BEARINGS**  
 SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODTIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON THE "RECORD OF SURVEY FOR CLARK COUNTY, LAS VEGAS VALLEY GEODECTIC CONTROL NETWORK, CLARK COUNTY, NEVADA", AS SHOWN IN FILE 88, PAGE 53 OF SURVEYS, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

**BENCHMARK**  
 4C1133NWS  
 RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB, EAST SIDE OF LAS VEGAS BLVD. 150' SOUTH OF RUSSELL ROAD.  
 ELEVATION: 658.705 METERS NAVD 88 V.2018  
 2161.10 FEET (CALCULATED)



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**HORIZONTAL CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



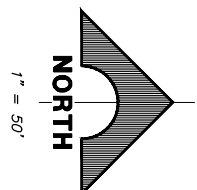
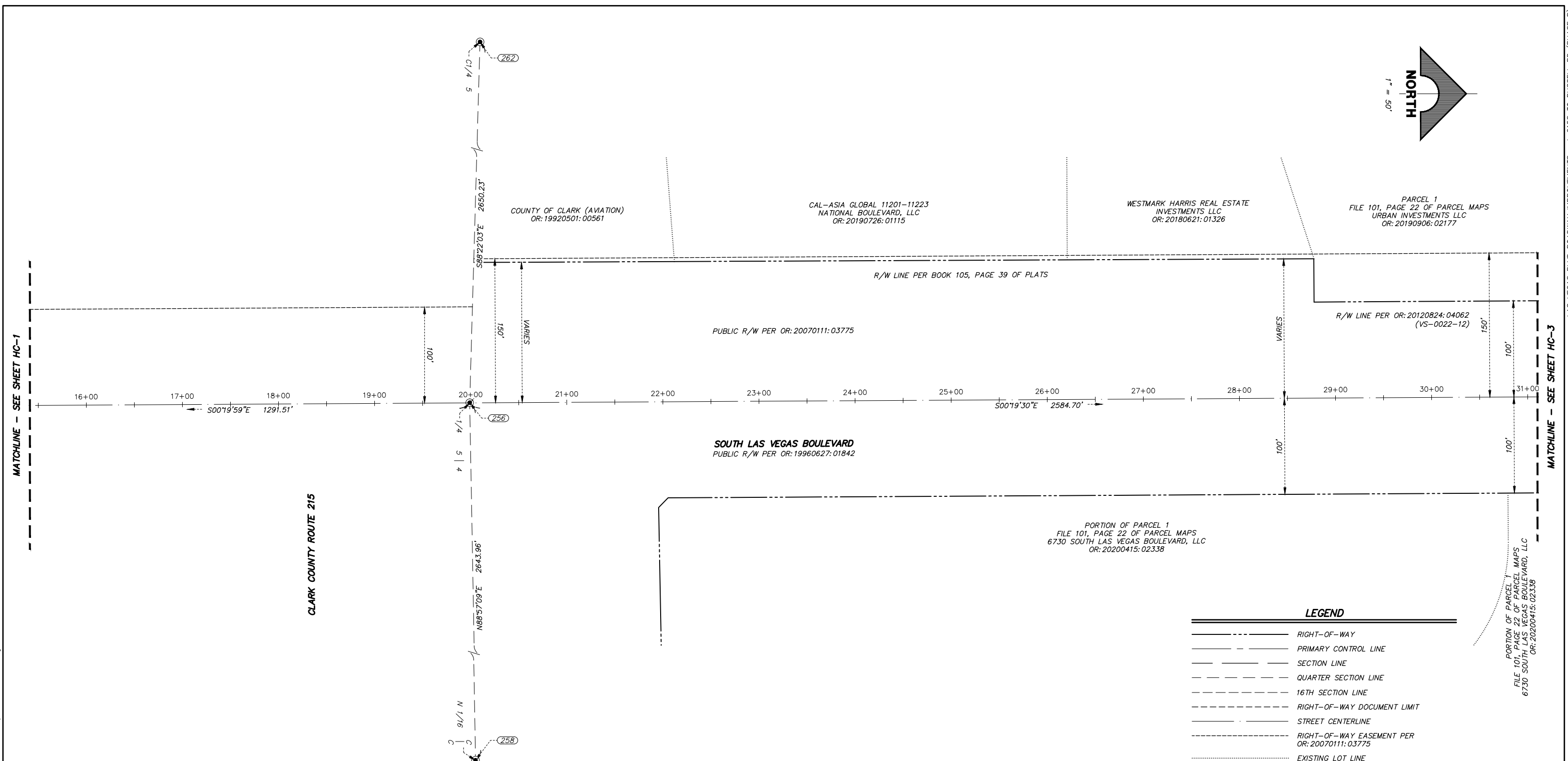
PROJECT No: 500-897-LV DRAWN BY: BAM  
 DESIGNED BY: NA CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCW** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcwengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	<b>HC-1</b>
VERT: NONE	SHT. 5 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 BID NO.: 605718-20



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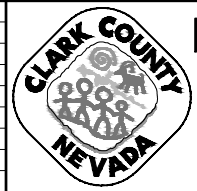
CLARK COUNTY ROUTE 215

**SOUTH LAS VEGAS BOULEVARD**  
 PUBLIC R/W PER OR: 19960627:01842

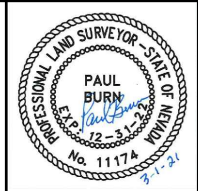
POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
256	2224.46	729933.58	77766.72	FOUND 2" BRASS CAP IN CONCRETE, STAMPED "PLS 8895"
258	2191.58	729981.85	80410.24	FOUND 3-1/2" NDOT BRASS CAP
262	2246.79	730009.15	75117.56	FOUND 2" BRASS CAP IN WELL, STAMPED "PLS 7008"

LEGEND	
	RIGHT-OF-WAY
	PRIMARY CONTROL LINE
	SECTION LINE
	QUARTER SECTION LINE
	16TH SECTION LINE
	RIGHT-OF-WAY DOCUMENT LIMIT
	STREET CENTERLINE
	RIGHT-OF-WAY EASEMENT PER OR: 20070111:03775
	EXISTING LOT LINE
	POINT NUMBER
	FOUND MONUMENTATION AS SHOWN AND DESCRIBED
	CALCULATED POINT
	RIGHT-OF-WAY
	OFFICIAL RECORD

REV. NO.	DATE	DESCRIPTION	APPROVED



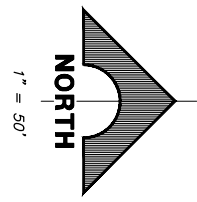
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**HORIZONTAL CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: BAM  
 DESIGNED BY: NA CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE		DRAWING NO.
HORIZ:	1" = 50'	HC-2
VERT:	NONE	SHT. 6 OF 159
FIELD BOOK		L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



LOT 1  
BOOK 135, PAGE 62 OF PLATS  
S R M F TOWN SQUARE OWNER, LLC  
OR: 20170127: 03193

R/W LINE PER OR: 20120824: 04062 (VS-0022-12)

PUBLIC R/W PER OR: 19990402: 01624

**SOUTH LAS VEGAS BOULEVARD**  
PUBLIC R/W PER OR: 19960627: 01842

PORTION OF PARCEL 1  
FILE 101, PAGE 22 OF PARCEL MAPS  
6730 SOUTH LAS VEGAS BOULEVARD, LLC  
OR: 20200415: 02338

**LEGEND**

- RIGHT-OF-WAY
- PRIMARY CONTROL LINE
- SECTION LINE
- QUARTER SECTION LINE
- 16TH SECTION LINE
- RIGHT-OF-WAY DOCUMENT LIMIT
- STREET CENTERLINE
- RIGHT-OF-WAY EASEMENT PER OR: 20070111: 03775
- EXISTING LOT LINE
- POINT NUMBER
- FOUND MONUMENTATION AS SHOWN AND DESCRIBED
- CALCULATED POINT
- RIGHT-OF-WAY
- OFFICIAL RECORD

**POINT TABLE**

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
252	2206.91	732518.24	77752.15	FOUND 2-1/2" BRASS CAP IN WELL, NO PLS NO.
253	2217.52	732491.69	76430.75	FOUND 2-1/2" BRASS CAP IN CONCRETE, STAMPED "PLS 7008"
254	2173.26	732571.36	80383.43	FOUND 2-1/2" BRASS CAP IN WELL, STAMPED "PLS 7008"

MATCHLINE -- SEE SHEET HC-2

MATCHLINE -- SEE SHEET HC-4

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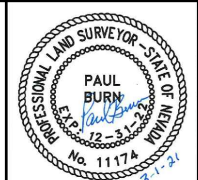
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**HORIZONTAL CONTROL PLAN**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: BAM  
DESIGNED BY: NA CHECKED BY: CW  
APPROVED BY:

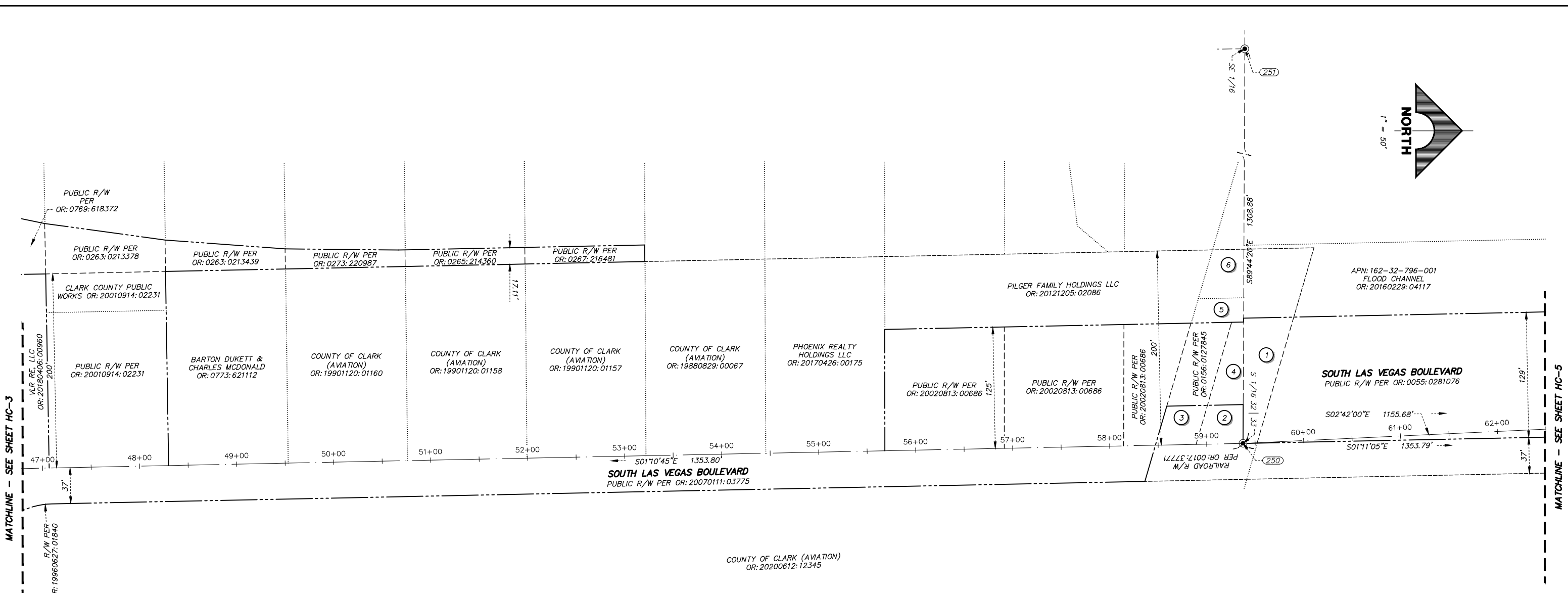
**GCV**  
ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: 1" = 50'  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
**HC-3**  
SHT. 7 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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**LEGEND**

---	RIGHT-OF-WAY
---	PRIMARY CONTROL LINE
---	SECTION LINE
---	QUARTER SECTION LINE
---	16TH SECTION LINE
---	RIGHT-OF-WAY DOCUMENT LIMIT
---	STREET CENTERLINE
---	RIGHT-OF-WAY EASEMENT PER OR: 20070111:03775
---	EXISTING LOT LINE
(100)	POINT NUMBER
●	FOUND MONUMENTATION AS SHOWN AND DESCRIBED
×	CALCULATED POINT
R/W	RIGHT-OF-WAY
OR:	OFFICIAL RECORD

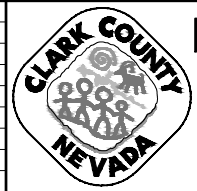
**LEGEND**

①	PUBLIC R/W PER FILE 121, PAGE 10 OF PARCEL MAPS
②	PUBLIC R/W PER OR: 0017:0037773
③	PUBLIC R/W PER OR: 0017:0037773
④	PUBLIC R/W PER OR: 0156:0127845
⑤	PILGER FAMILY HOLDINGS, LLC OR: 20161128:01473
⑥	PILGER FAMILY HOLDINGS, LLC OR: 20161101:01121

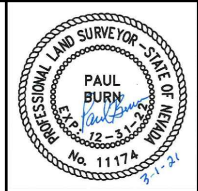
**POINT TABLE**

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
250	2192.29	733871.76	77724.25	FOUND 1-1/2" ALUMINUM CAP, STAMPED "PLS 9047"
251	2204.54	733877.77	76415.42	FOUND 2" BRASS CAP IN CONCRETE, STAMPED "PLS 17829"

REV. NO.	DATE	DESCRIPTION	APPROVED



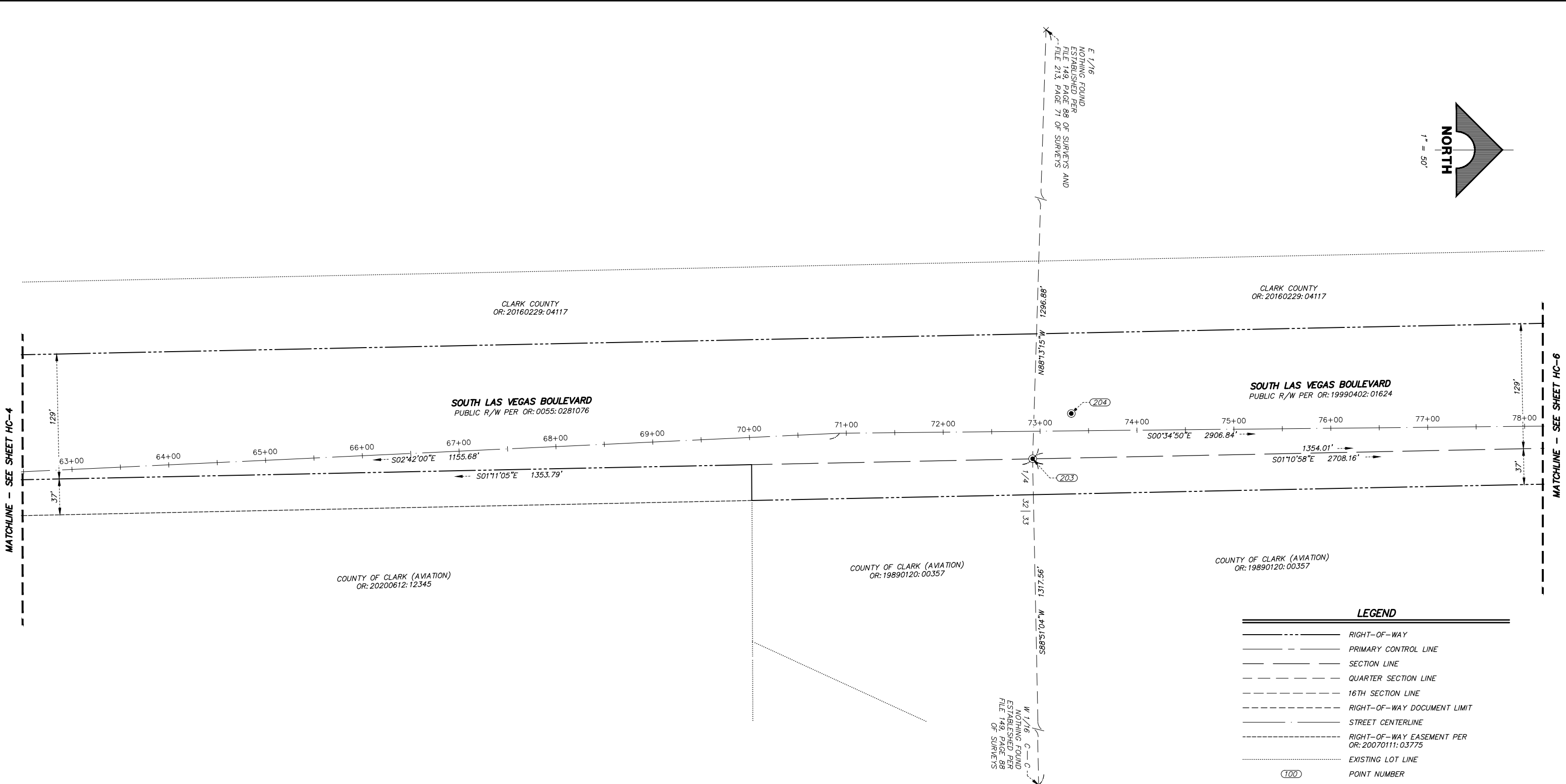
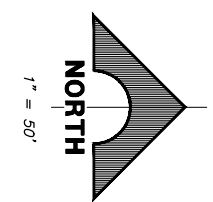
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**HORIZONTAL CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: BAM  
 DESIGNED BY: NA CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV**  
 ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-4
VERT: NONE	SHT. 8 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



MATCHLINE - SEE SHEET HC-4

MATCHLINE - SEE SHEET HC-6

**LEGEND**

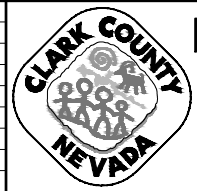
---	RIGHT-OF-WAY
---	PRIMARY CONTROL LINE
---	SECTION LINE
---	QUARTER SECTION LINE
---	16TH SECTION LINE
---	RIGHT-OF-WAY DOCUMENT LIMIT
---	STREET CENTERLINE
---	RIGHT-OF-WAY EASEMENT PER OR: 20070111: 03775
---	EXISTING LOT LINE
(100)	POINT NUMBER
●	FOUND MONUMENTATION AS SHOWN AND DESCRIBED
×	CALCULATED POINT
R/W	RIGHT-OF-WAY
OR:	OFFICIAL RECORD

**POINT TABLE**

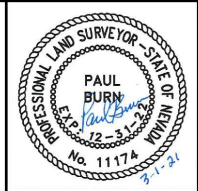
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
203	2182.76	735225.31	77696.31	FOUND 1-1/2" ALUMINUM CAP, STAMPED "PLS 9047 1997"
204	2183.47	735265.18	77649.60	FOUND 2" BRASS CAP, STAMPED "PLS 5571 2005"

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**HORIZONTAL CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



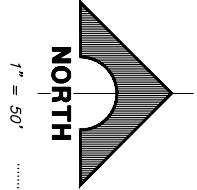
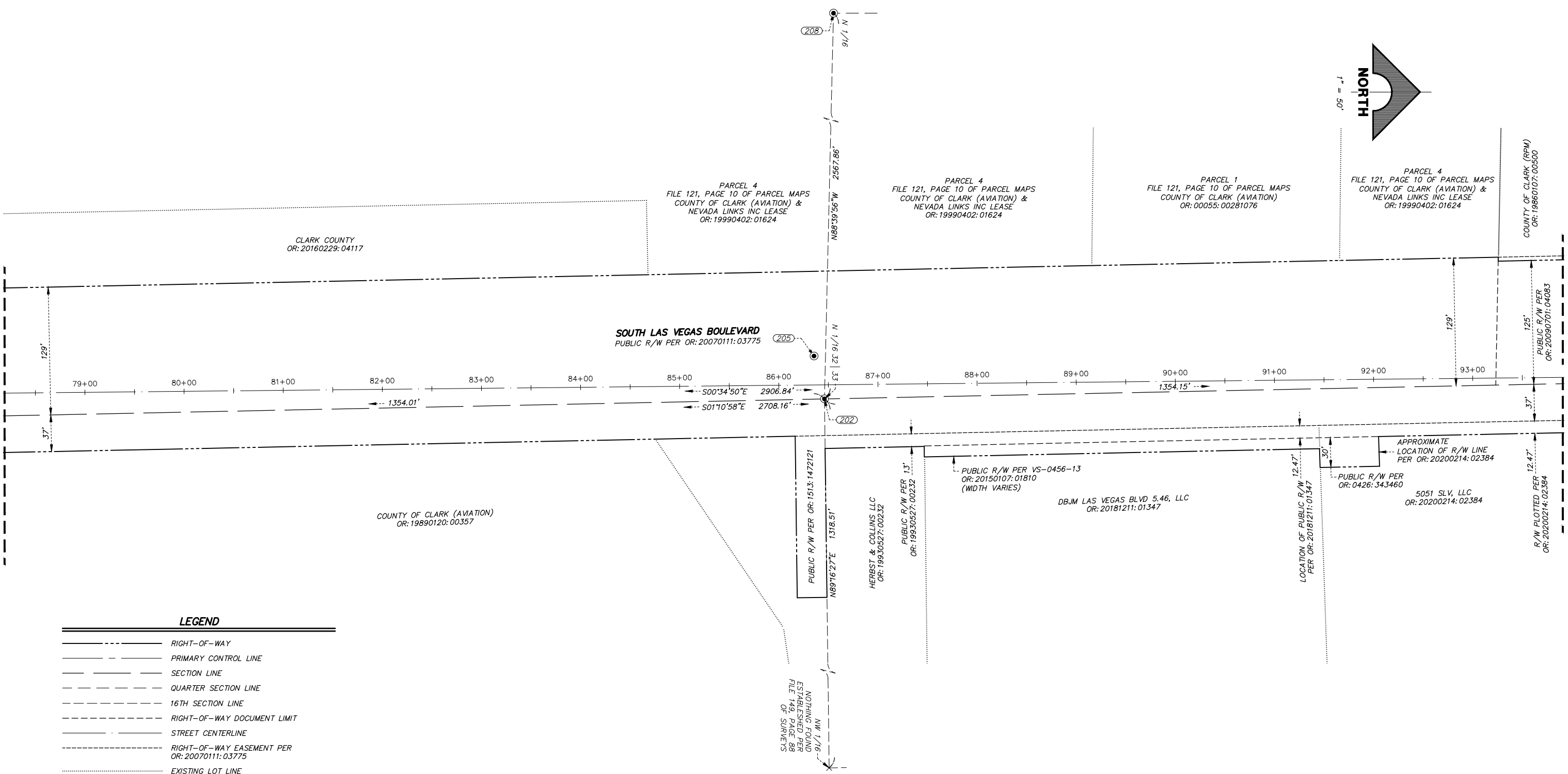
PROJECT No: 500-897-LV DRAWN BY: BAM  
 DESIGNED BY: NA CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-5
VERT: NONE	SHT. 9 OF 159
FIELD BOOK	L-2272

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 dhines

MATCHLINE - SEE SHEET HC-5

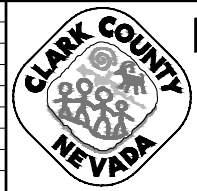
MATCHLINE - SEE SHEET HC-7



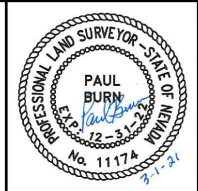
**LEGEND**

- RIGHT-OF-WAY
- PRIMARY CONTROL LINE
- SECTION LINE
- QUARTER SECTION LINE
- 16TH SECTION LINE
- RIGHT-OF-WAY DOCUMENT LIMIT
- STREET CENTERLINE
- RIGHT-OF-WAY EASEMENT PER OR: 20070111:03775
- EXISTING LOT LINE
- (100) POINT NUMBER
- FOUND MONUMENTATION AS SHOWN AND DESCRIBED
- × CALCULATED POINT
- R/W RIGHT-OF-WAY
- OR: OFFICIAL RECORD

POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
202	2172.95	736578.99	77668.43	FOUND 2" ALUMINUM CAP, STAMPED "PLS 7808"
205	2174.65	736568.43	77625.14	FOUND 2" BRASS CAP IN WELL, STAMPED "PLS5571 2005"
208	2205.57	736638.85	75101.26	FOUND 2" BRASS CAP IN WELL, STAMPED "PLS 7008"



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**HORIZONTAL CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: BAM  
 DESIGNED BY: NA CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV**  
 ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

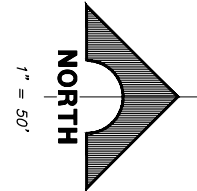
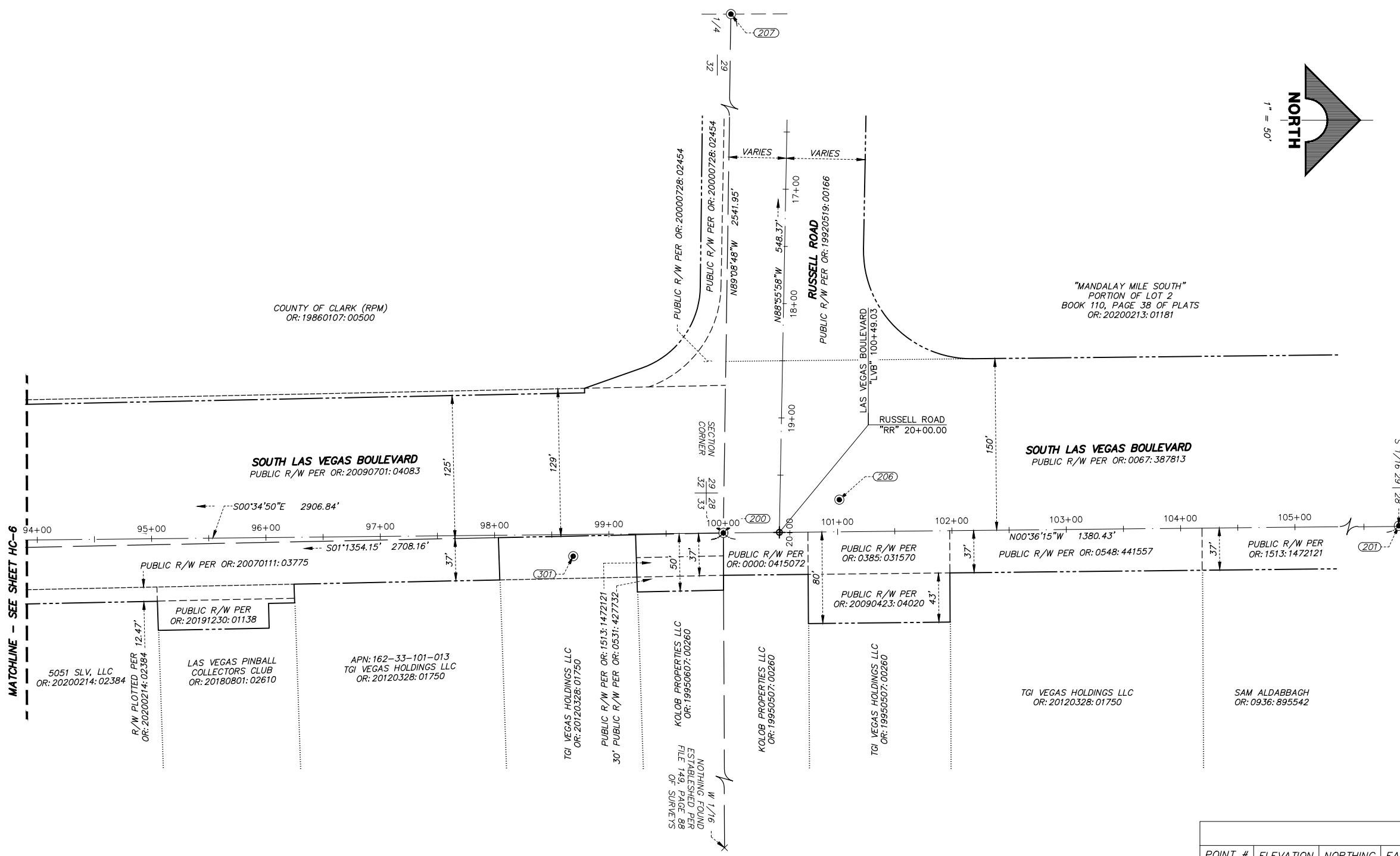
SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-6
VERT: NONE	SHT. 10 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 BID NO.: 605718-20



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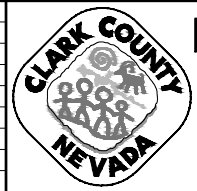
**LEGEND**

- RIGHT-OF-WAY
- PRIMARY CONTROL LINE
- SECTION LINE
- QUARTER SECTION LINE
- 16TH SECTION LINE
- RIGHT-OF-WAY DOCUMENT LIMIT
- STREET CENTERLINE
- RIGHT-OF-WAY EASEMENT PER OR: 20070111: 03775
- EXISTING LOT LINE
- (100) POINT NUMBER
- FOUND MONUMENTATION AS SHOWN AND DESCRIBED
- × CALCULATED POINT
- R/W RIGHT-OF-WAY
- OR: OFFICIAL RECORD

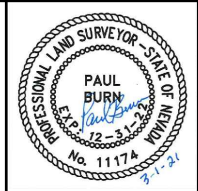
**POINT TABLE**

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
200	2159.75	737932.89	77640.48	FOUND 2" BRASS CAP IN CONCRETE, STAMPED "RLS 8431"
201	2148.03	739313.27	77626.01	FOUND 2" BRASS CAP IN CONCRETE, STAMPED "PLS 7004"
206	2160.88	738034.29	77611.45	FOUND 2" BRASS CAP IN CONCRETE, STAMPED "PLS 5571 2005"
207	2216.06	737970.77	75098.83	FOUND 2" BRASS CAP IN CONCRETE, STAMPED "PLS 7008"
301	2161.10	737801.57	77660.85	FOUND BM 4C1133NWS

REV. NO.	DATE	DESCRIPTION	APPROVED



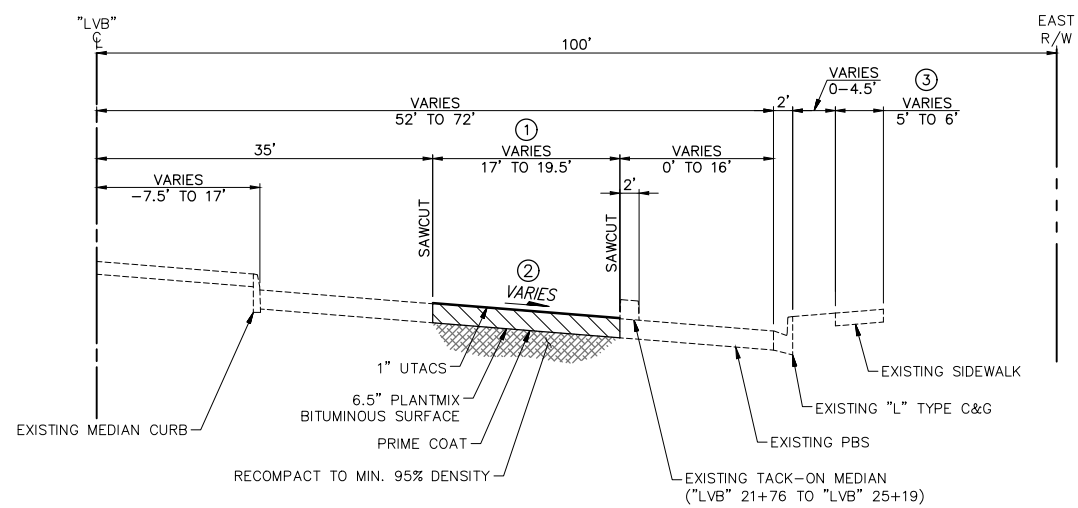
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**HORIZONTAL CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



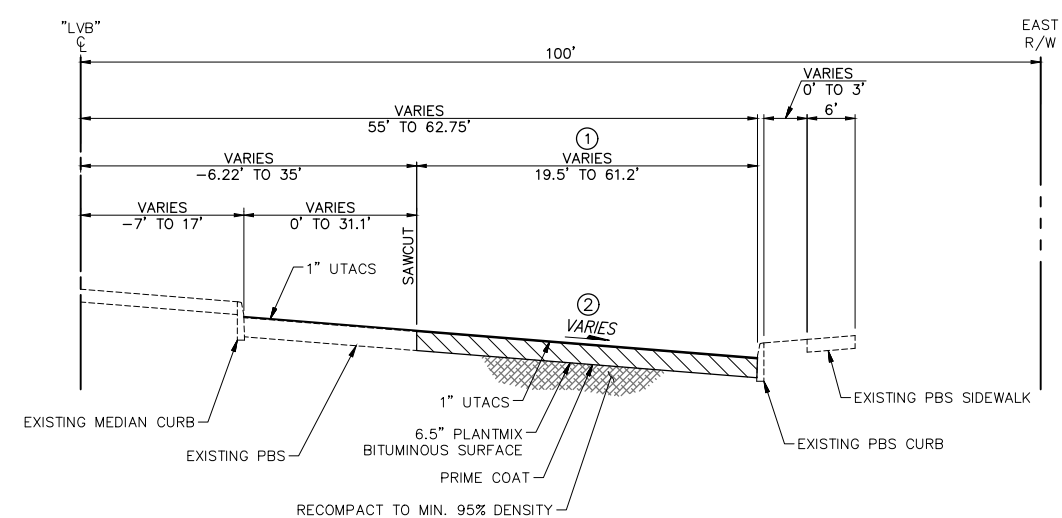
PROJECT No: 500-897-LV DRAWN BY: BAM  
 DESIGNED BY: NA CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV**  
 ENGINEERS & SURVEYORS  
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 LAS VEGAS, NV 89146  
 T: 702.804.2000  
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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-7
VERT: NONE	SHT. 11 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

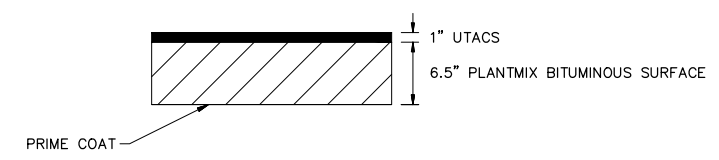


**LAS VEGAS BOULEVARD**  
"LVB" 20+27.00 TO "LVB" 29+20.00

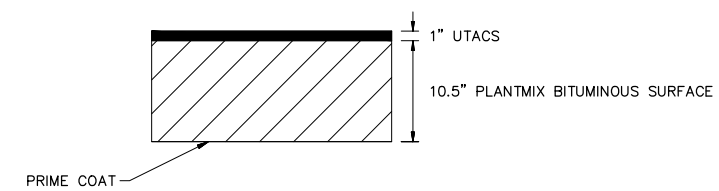


**LAS VEGAS BOULEVARD**  
"LVB" 29+20.00 TO "LVB" 30+53.00

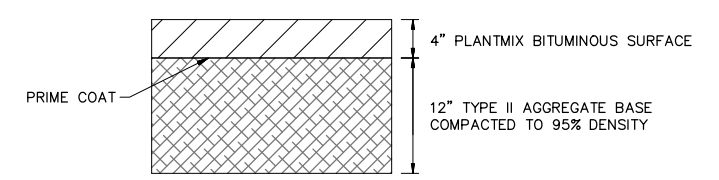
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



**PAVEMENT SECTION**  
LAS VEGAS BLVD SOUTH OF UPRR SPUR AND SUNSET RD



**PAVEMENT SECTION**  
LAS VEGAS BLVD NORTH OF UPRR SPUR

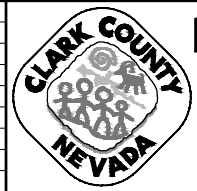


**PAVEMENT SECTION**  
ON-SITE DRIVEWAYS AT "LVB" 56+27, "LVB" 58+52, & "LVB" 86+63

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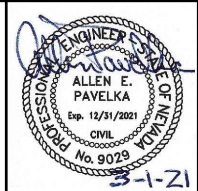
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**TYPICAL SECTIONS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

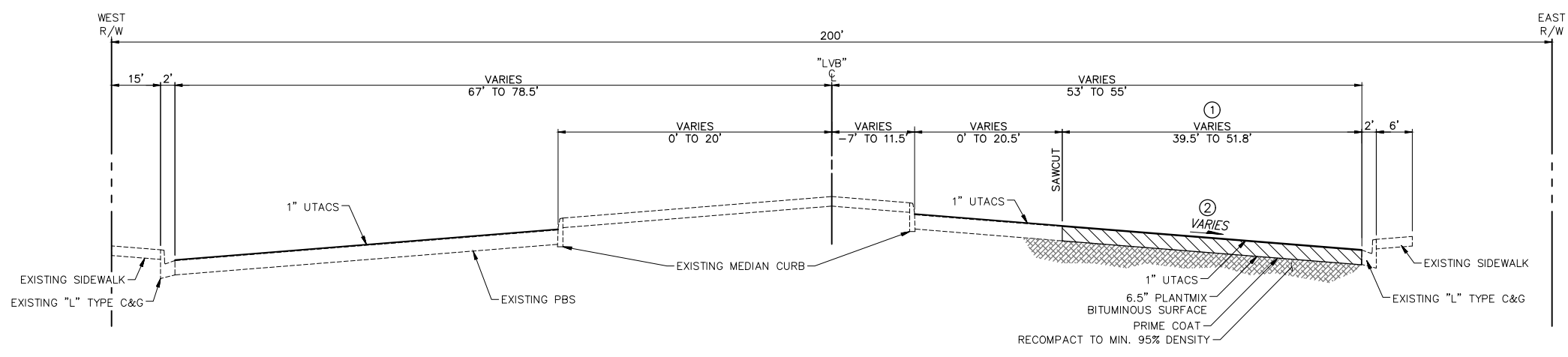


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

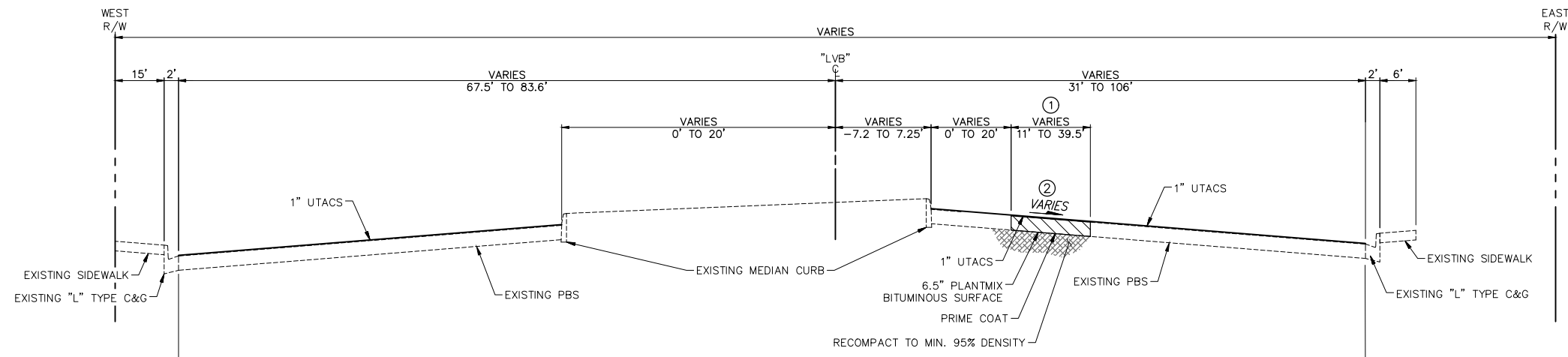
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TY-1</b>
VERT: NONE	SHT. 12 OF 159
FIELD BOOK	L-2272

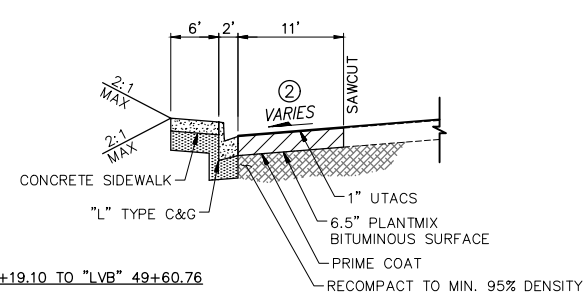
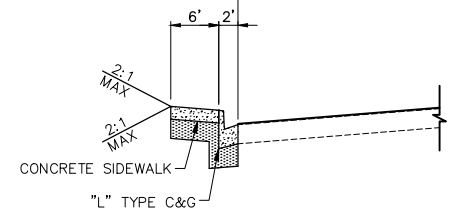
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



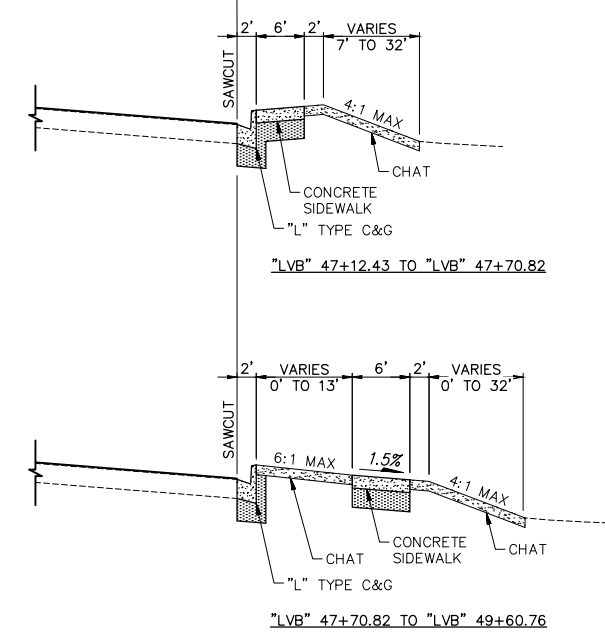
**LAS VEGAS BOULEVARD**  
 "LVB" 30+53.00 TO "LVB" 41+93.00



"LVB" 46+37.47 TO "LVB" 49+19.10



"LVB" 49+19.10 TO "LVB" 49+60.76



**LAS VEGAS BOULEVARD**  
 "LVB" 41+93.00 TO "LVB" 45+39.74  
 "LVB" 46+26.81 TO "LVB" 49+60.76

F:\Projects\500-897-LV\DWG\Production\Phase B\04\_LVB\_TY\_Sheets.dwg

02-26-21 09:16:56 dhines

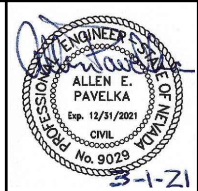
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**TYPICAL SECTIONS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

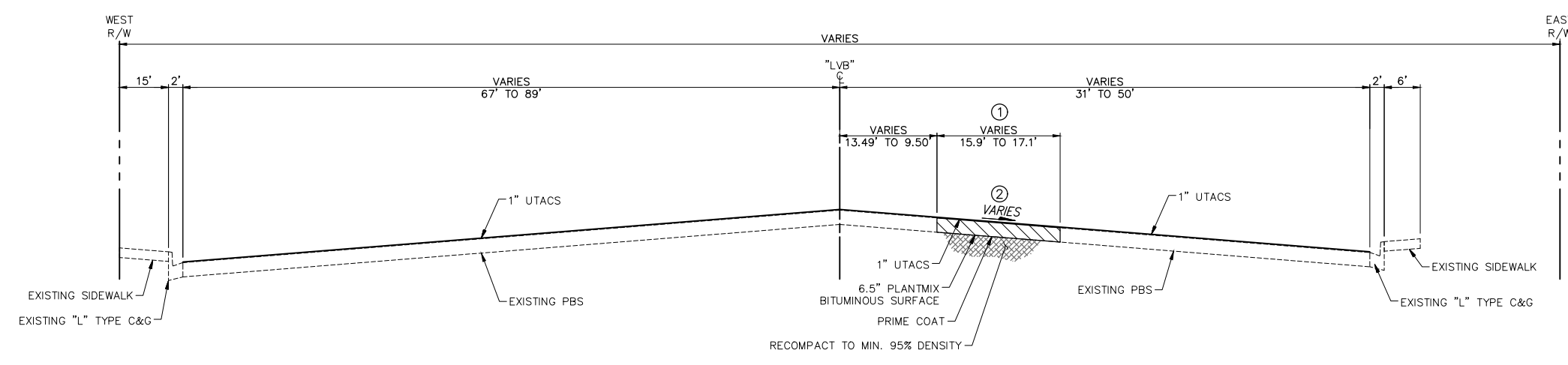


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

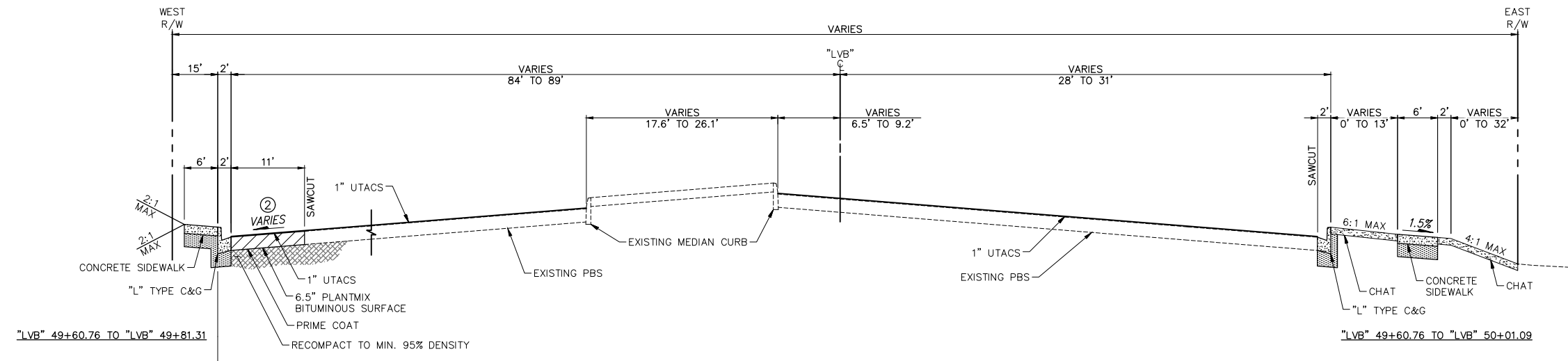
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	TY-2
VERT: NONE	SHT. 13 OF 159
FIELD BOOK	L-2272

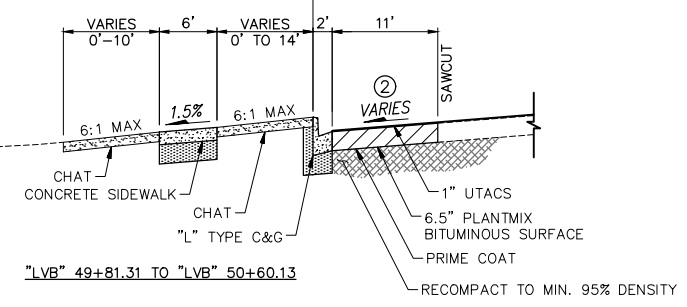
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



**LAS VEGAS BOULEVARD**  
"LVB" 45+39.74 TO "LVB" 46+26.81

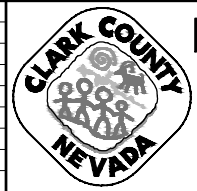


**LAS VEGAS BOULEVARD**  
"LVB" 49+60.76 TO "LVB" 50+01.09 (RT)/50+60.13 (LT)



02-26-21 09:16:59 F:\Projects\500\500-897-LV\DWG\Production\Phase B\04-LVB\_TY\_Sheets.dwg

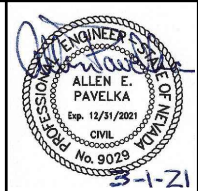
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**TYPICAL SECTIONS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

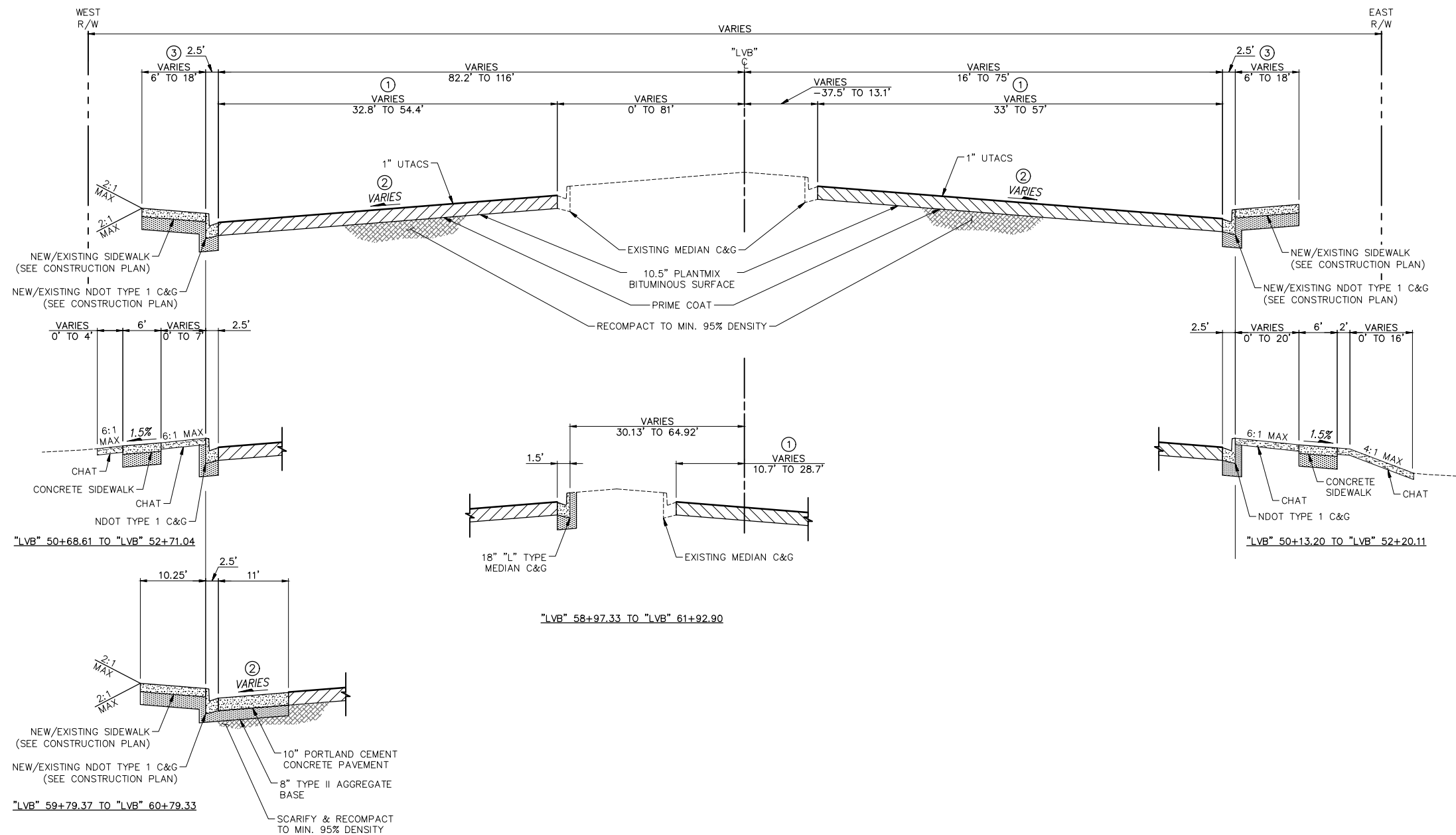


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TY-3</b>
VERT: NONE	SHT. 14 OF 159
FIELD BOOK	L-2272

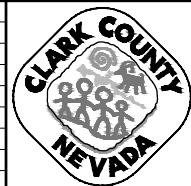
- NOTES**
- ① PAVEMENT WIDTH VARIES – SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES – MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES – SEE CONSTRUCTION PLANS.



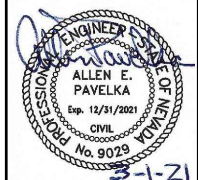
**LAS VEGAS BOULEVARD**  
 "LVB" 50+13.20 (RT)/50+68.61 (LT) TO "LVB" 96+30.89

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TYPICAL SECTIONS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



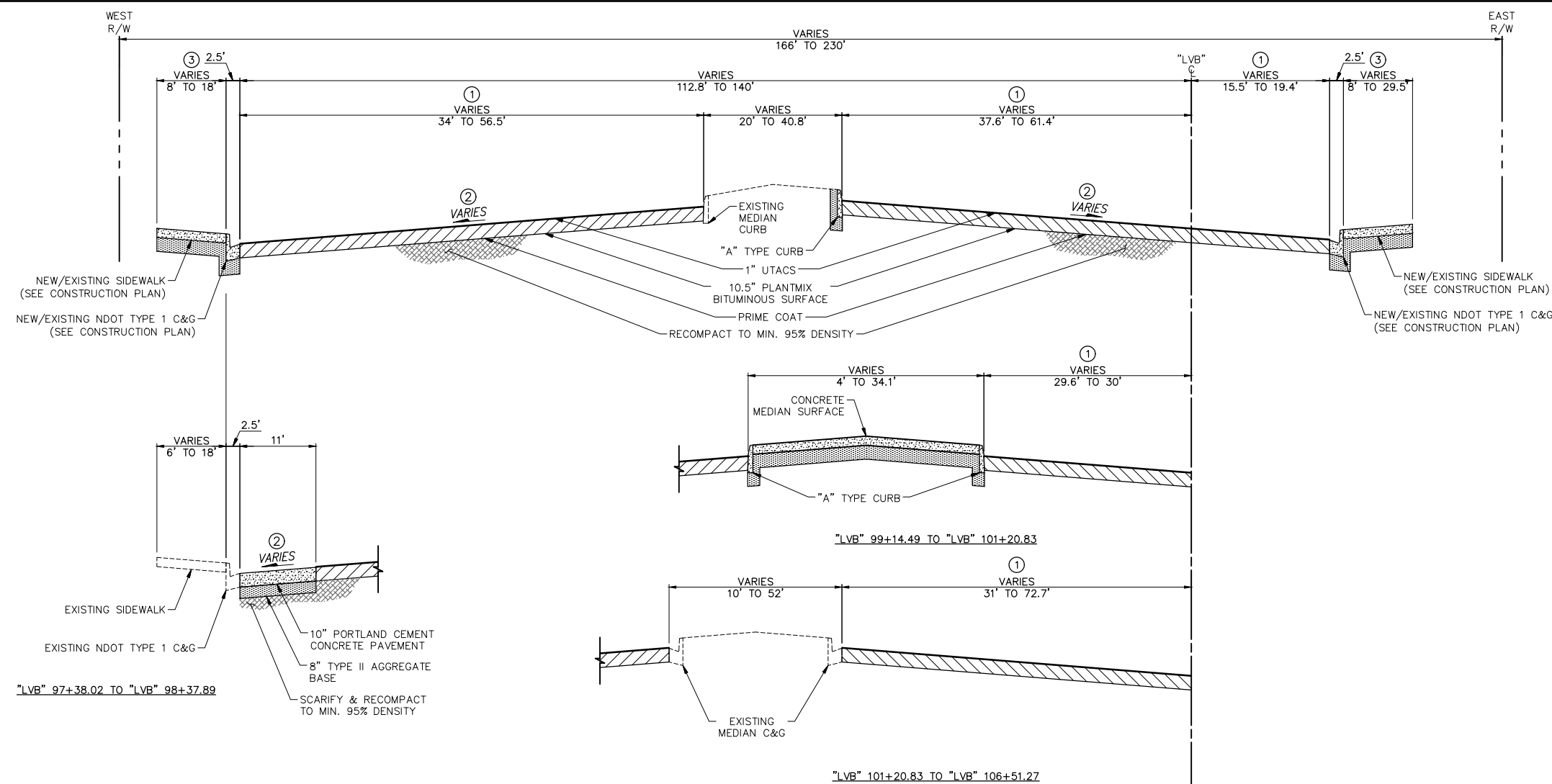
PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TY-4</b>
VERT: NONE	SHT. 15 OF 159
FIELD BOOK	L-2272

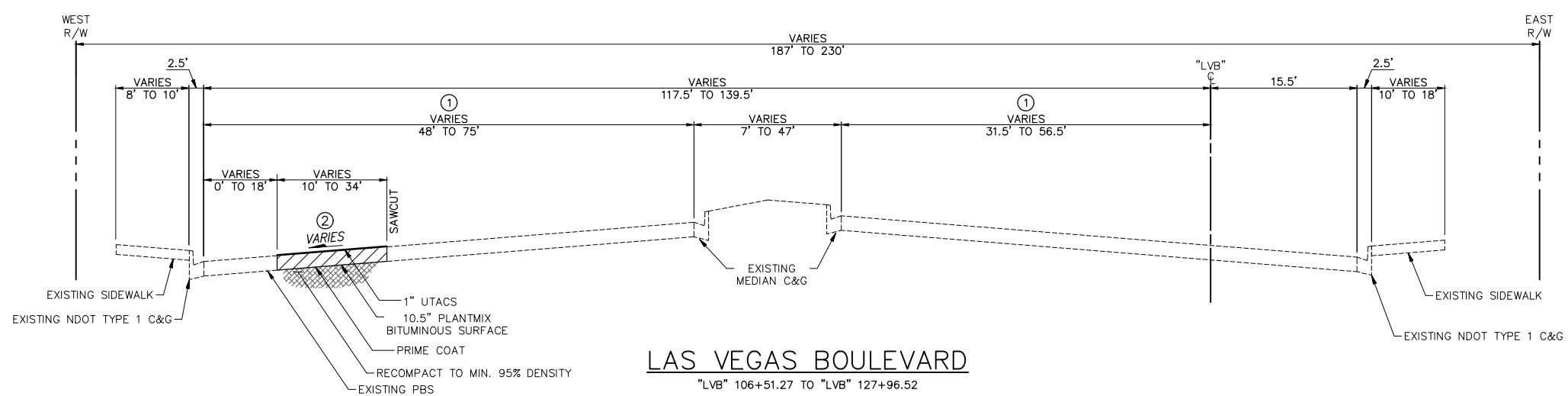
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



**LAS VEGAS BOULEVARD**  
"LVB" 96+30.89 TO "LVB" 106+51.27

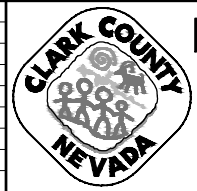


**LAS VEGAS BOULEVARD**  
"LVB" 106+51.27 TO "LVB" 127+96.52

F:\Projects\500\500-897-LV\DWG\Production\Phase B\04-LVB\_TY\_Sheets.dwg

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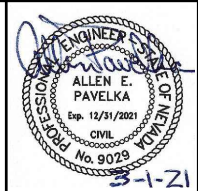
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**TYPICAL SECTIONS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

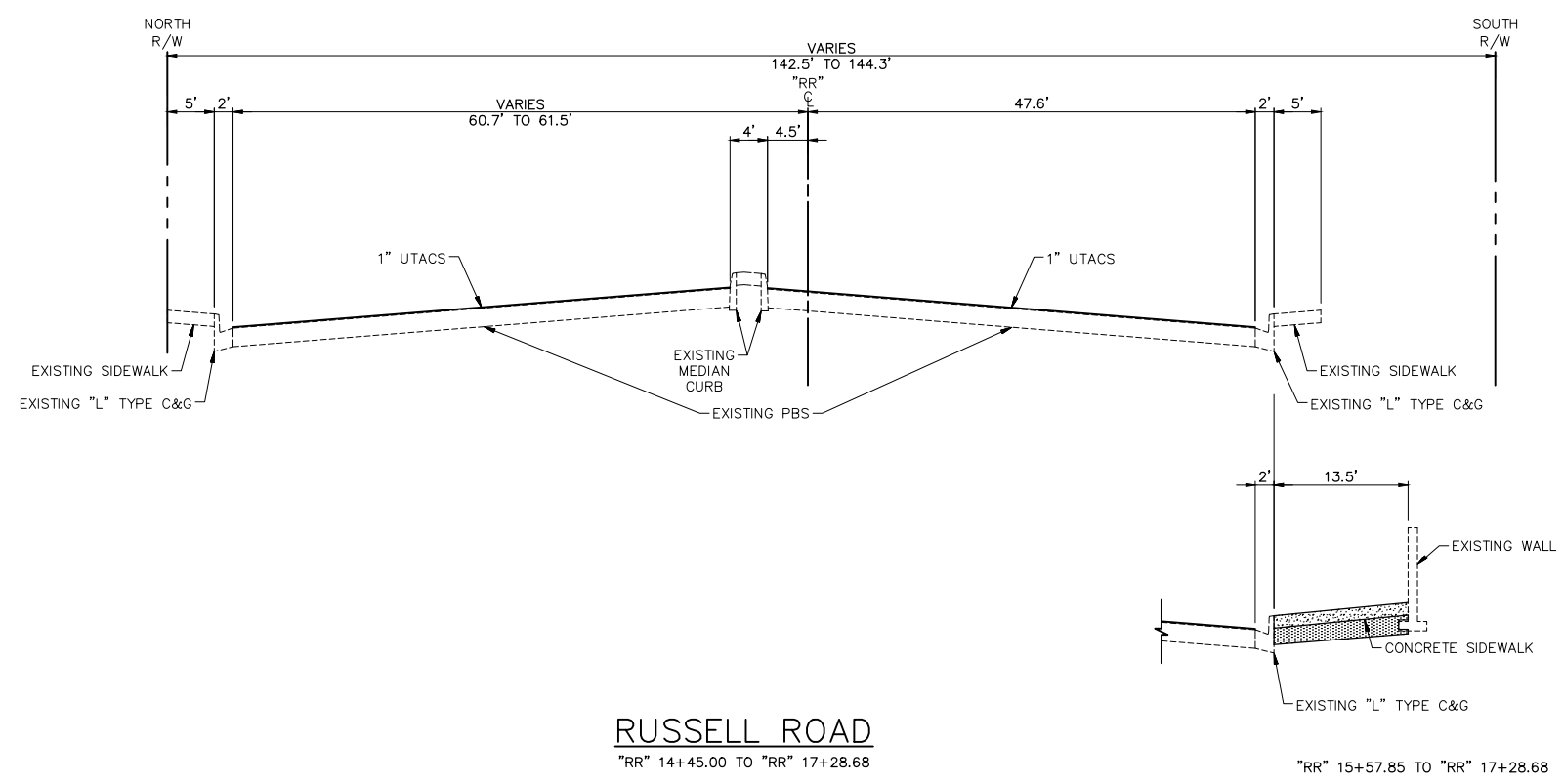


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

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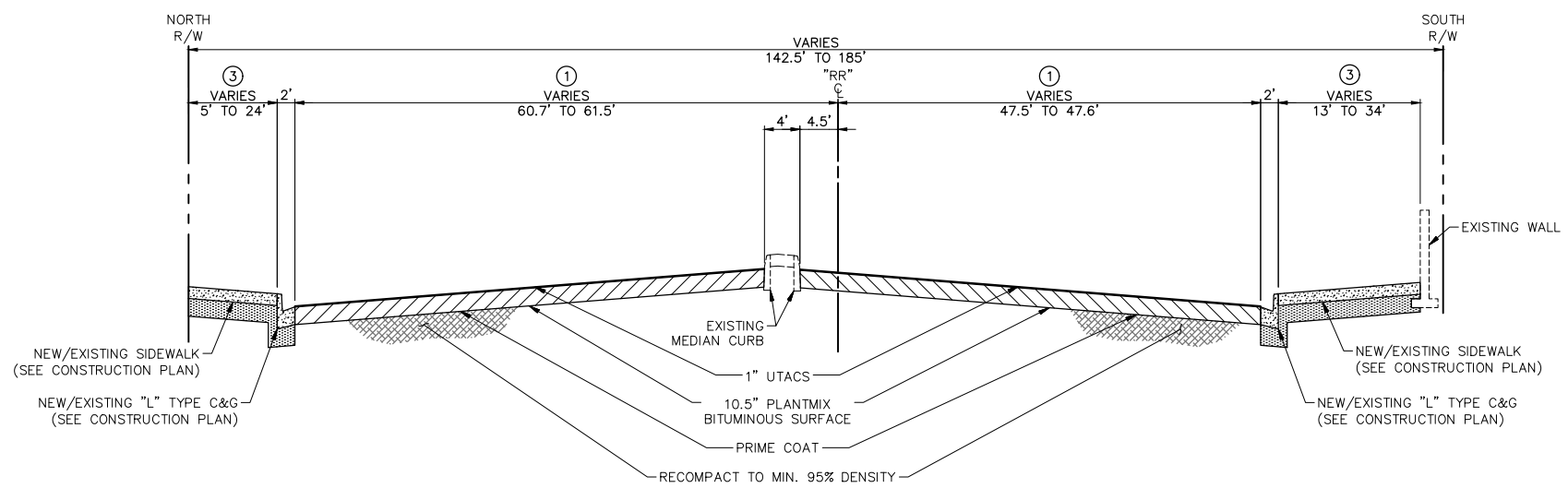
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TY-5</b>
VERT: NONE	SHT. 16 OF 159
FIELD BOOK	L-2272

- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



**RUSSELL ROAD**  
"RR" 14+45.00 TO "RR" 17+28.68

"RR" 15+57.85 TO "RR" 17+28.68



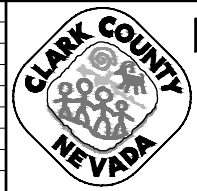
**RUSSELL ROAD**

"RR" 17+28.68 TO "RR" 18+10.50 (LT) / "RR" 18+30.31 (RT)

F:\Projects\500\500-897-LV\DWG\Production\Phase B\04\_LVB\_TY\_Sheets.dwg

02-26-21 09:17:11

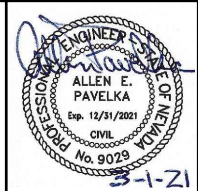
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**TYPICAL SECTIONS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

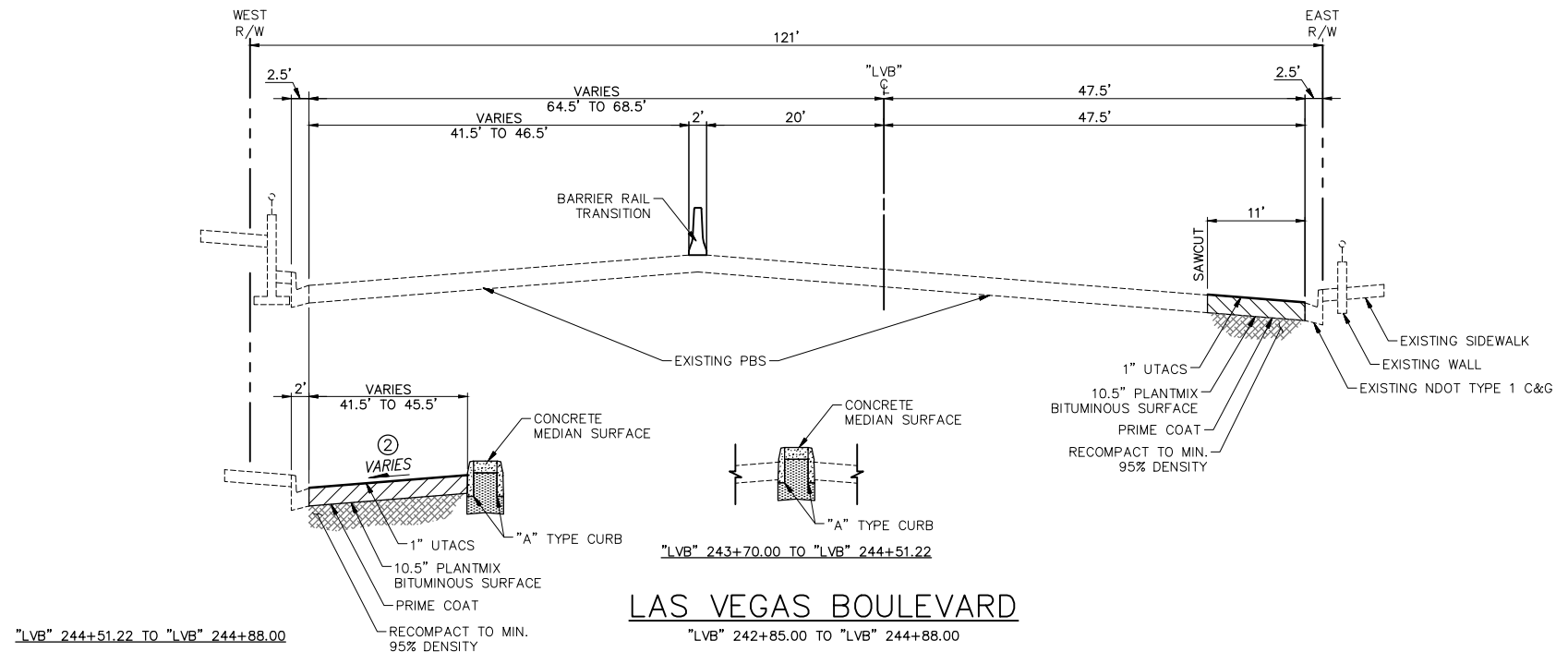


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

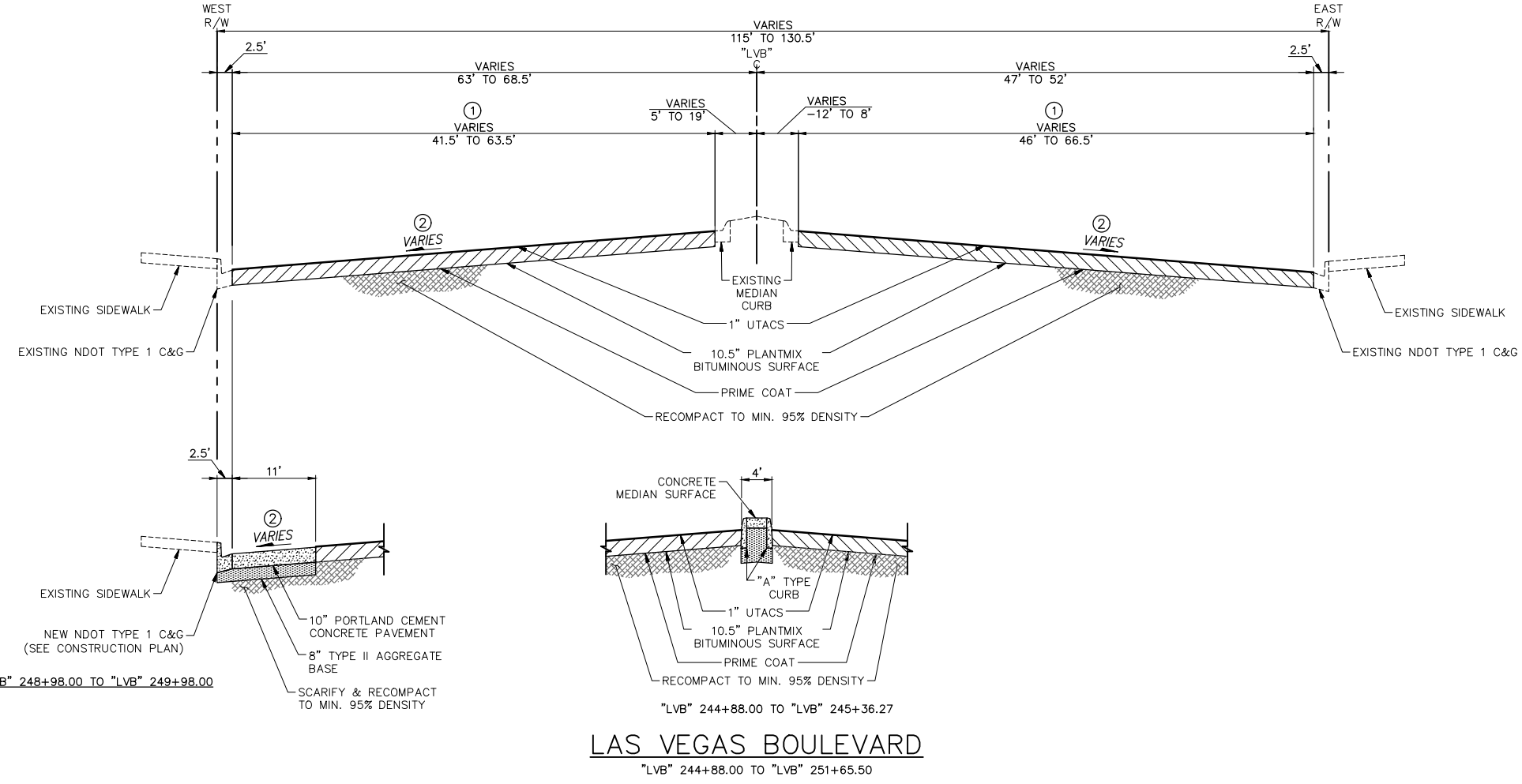
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TY-6</b>
VERT: NONE	SHT. 17 OF 159
FIELD BOOK	L-2272

- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



**LAS VEGAS BOULEVARD**



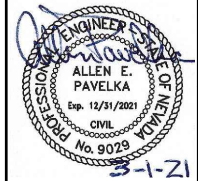
**LAS VEGAS BOULEVARD**



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**TYPICAL SECTIONS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



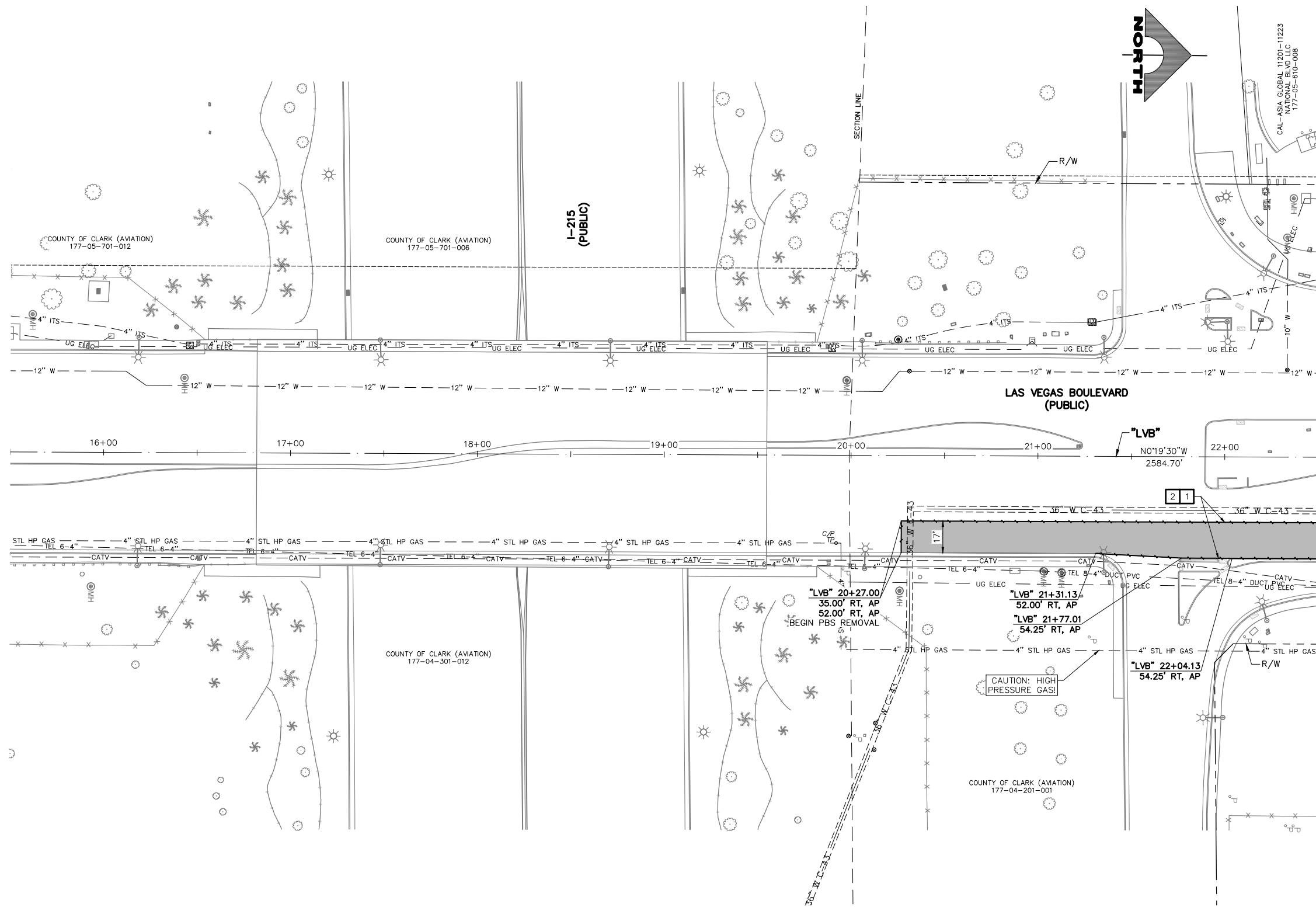
PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
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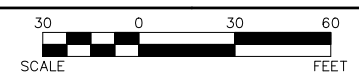
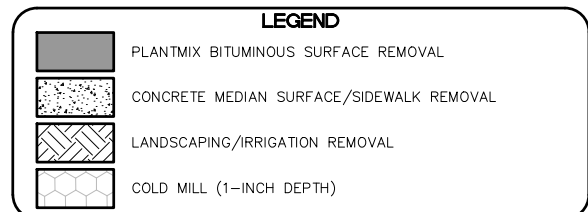
SCALE	DRAWING NO.
HORIZ: AS SHOWN	TY-7
VERT: NONE	SHT. 18 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED





- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR BLOCK WALL
  - 17 REMOVE CHAIN-LINK FENCE
  - 18 REMOVE AND RESET PRIVATE WROUGHT IRON FENCE
  - 19 REMOVE GUARDRAIL
  - 20 REMOVE GUARDRAIL FLARED END TERMINAL
  - 21 REMOVE POST
  - 22 ADJUST/RELOCATE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE C-DRAWINGS)
  - 23 REMOVE AND SALVAGE SERVICE PEDESTAL
  - 24 REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION TO 18-INCHES BELOW FINISHED GRADE EXCEPT IN MEDIAN. REMOVE COMPLETELY.
  - 25 REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - 26 REMOVE LANDSCAPING/IRRIGATION AND RECONNECT
  - 27 REMOVE CONCRETE HEADWALL
  - 28 REMOVE GROUTED RIPRAP
  - 29 REMOVE TREE
  - 30 REMOVE CONCRETE BUS TURN-OUT
  - 31 REMOVE STORM DRAIN PIPE
  - 32 REMOVE AND RELOCATE PALM TREE
  - 33 REMOVE STORM DRAIN MANHOLE
  - 34 REMOVE OVERHEAD CONDUCTORS (STREET LIGHT)
  - 35 REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
  - 36 REMOVE CONCRETE BARRIER RAIL
  - 37 REMOVE PRIVATE SIGN (BY PROPERTY OWNER)
  - P PROTECT-IN-PLACE



"LVB" 22+50.00 MATCHLINE SEE DRAWING NO. R-2

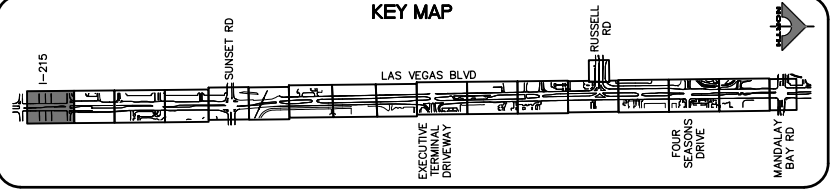
**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

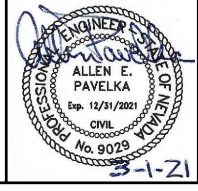
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



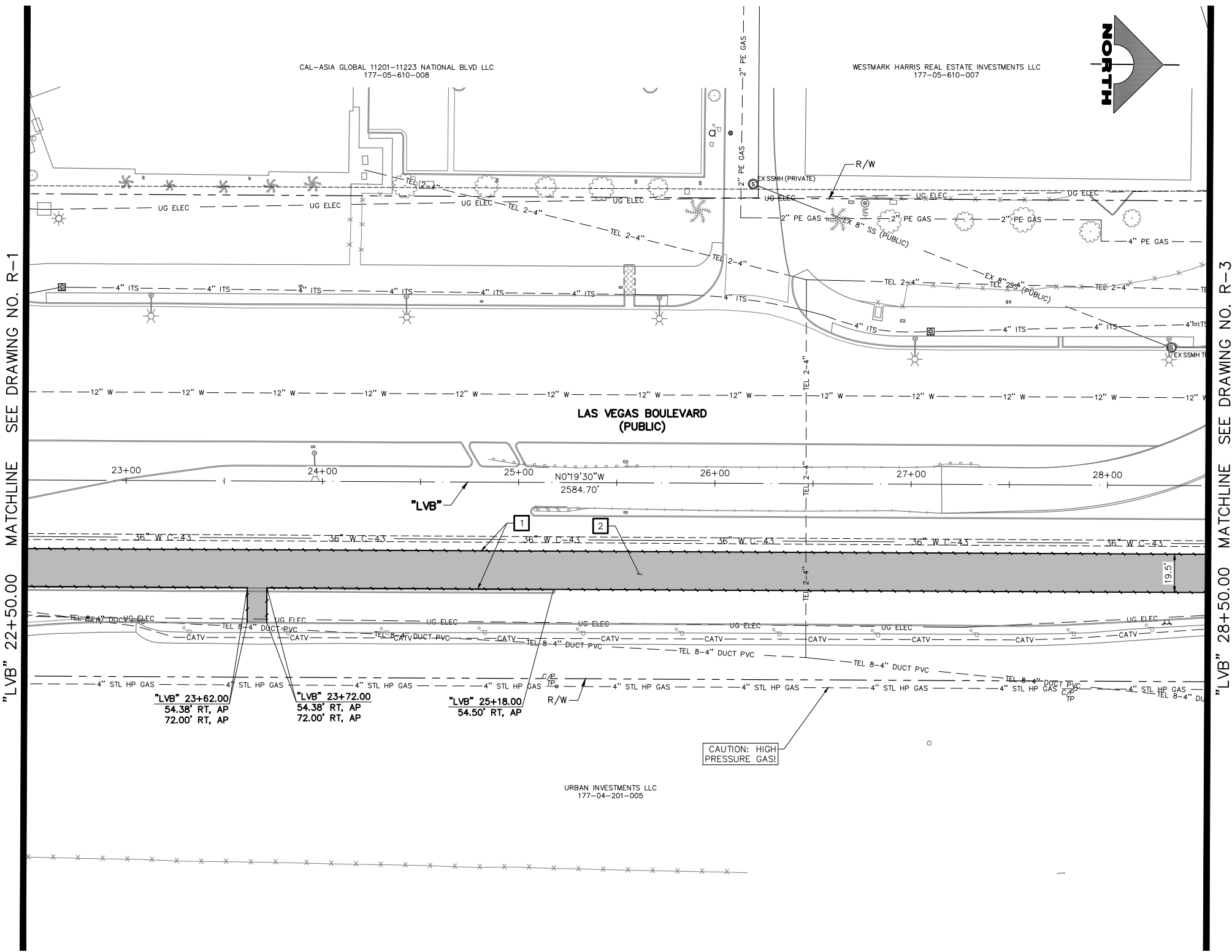
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"LVB" 15+50.00 TO "LVB" 22+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-1
VERT: NONE	SHT. 19 OF 159
FIELD BOOK	L-2272

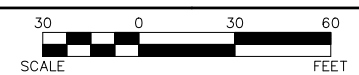




- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
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  - 29 REMOVE TREE
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  - 36 REMOVE CONCRETE BARRIER RAIL
  - 37 REMOVE PRIVATE SIGN (BY PROPERTY OWNER)
  - P PROTECT-IN-PLACE

### LEGEND

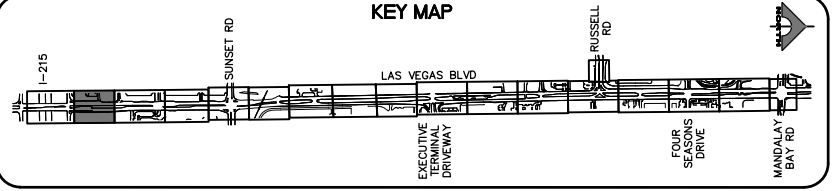
- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

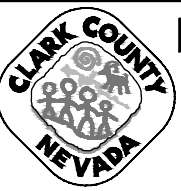
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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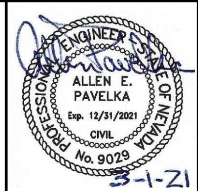
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PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

REV. NO.	DATE	DESCRIPTION	APPROVED

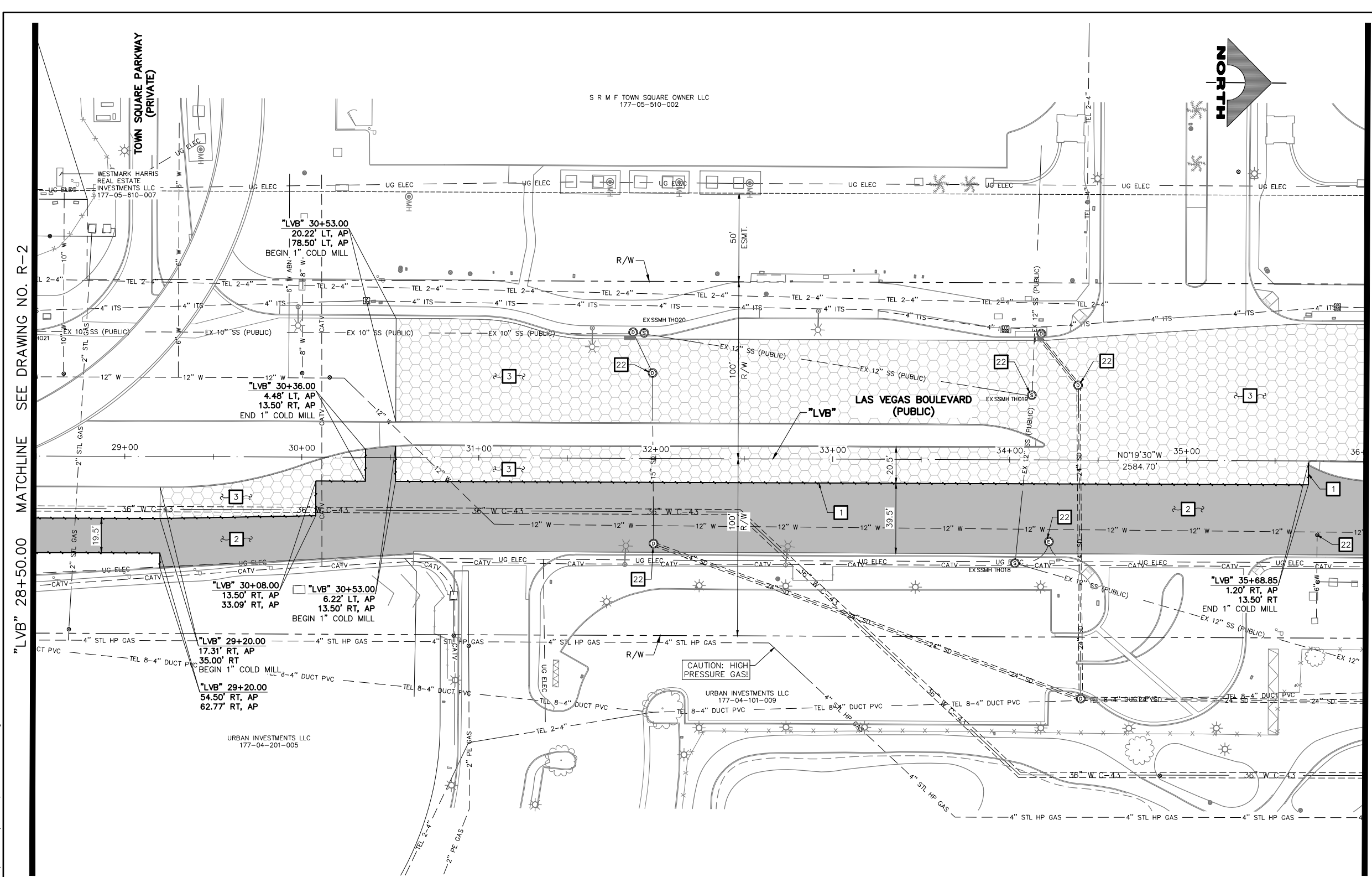


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"LVB" 22+50.00 TO "LVB" 28+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

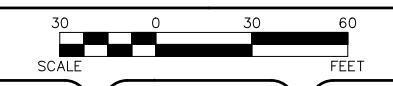
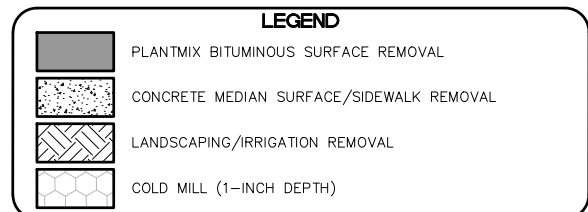


PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-2
VERT: NONE	SHT. 20 OF 159
FIELD BOOK	L-2272



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
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  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
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  - 20 REMOVE GUARDRAIL FLARED END TERMINAL
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**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

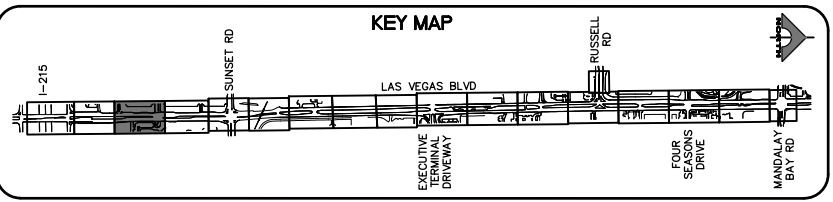
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

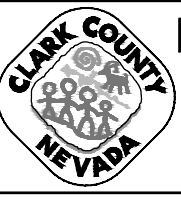
**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

### "LVB" 28+50.00 TO "LVB" 36+00.00

### CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

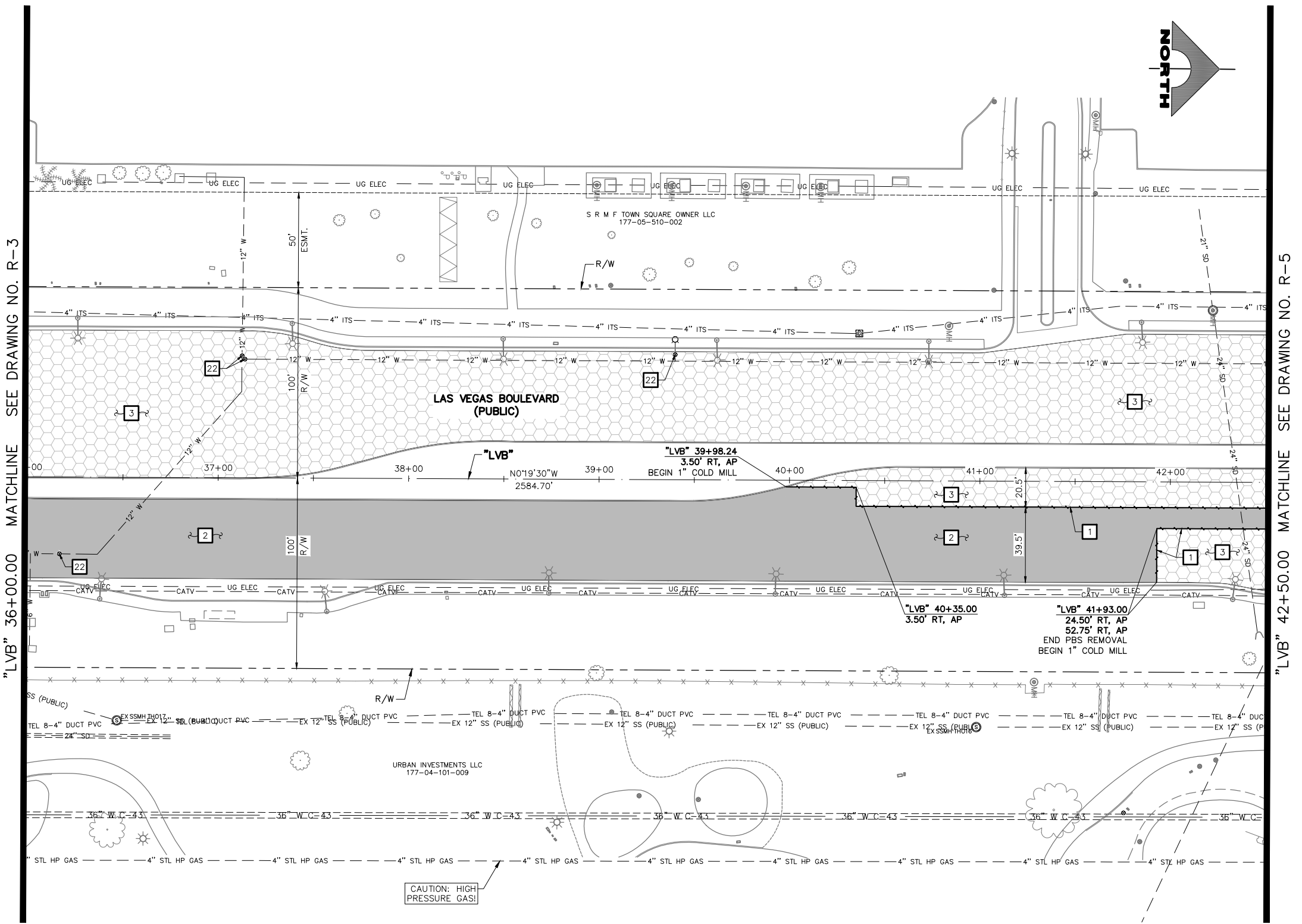
DRAWING NO. **R-3** SHT. 21 OF 159

L-2272

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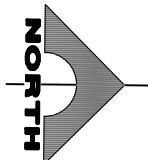
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





"LVB" 36+00.00 MATCHLINE SEE DRAWING NO. R-3

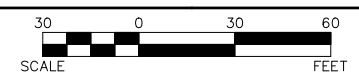
"LVB" 42+50.00 MATCHLINE SEE DRAWING NO. R-5



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
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  - 4 REMOVE CONCRETE SIDEWALK
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### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



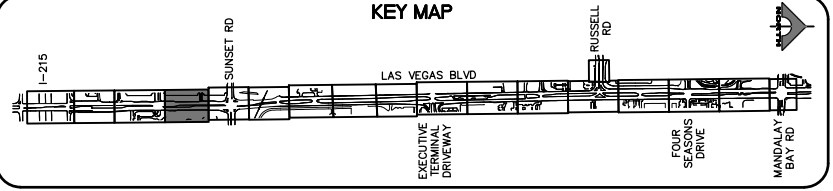
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**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
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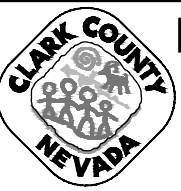


**CALL BEFORE YOU DIG**  
Aid cutting underground utility lines. It's costly.  
**Call 811**  
1-702-227-2929

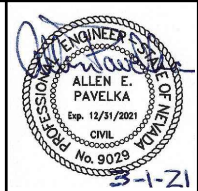
**FAST**  
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PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"LVB" 36+00.00 TO "LVB" 42+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

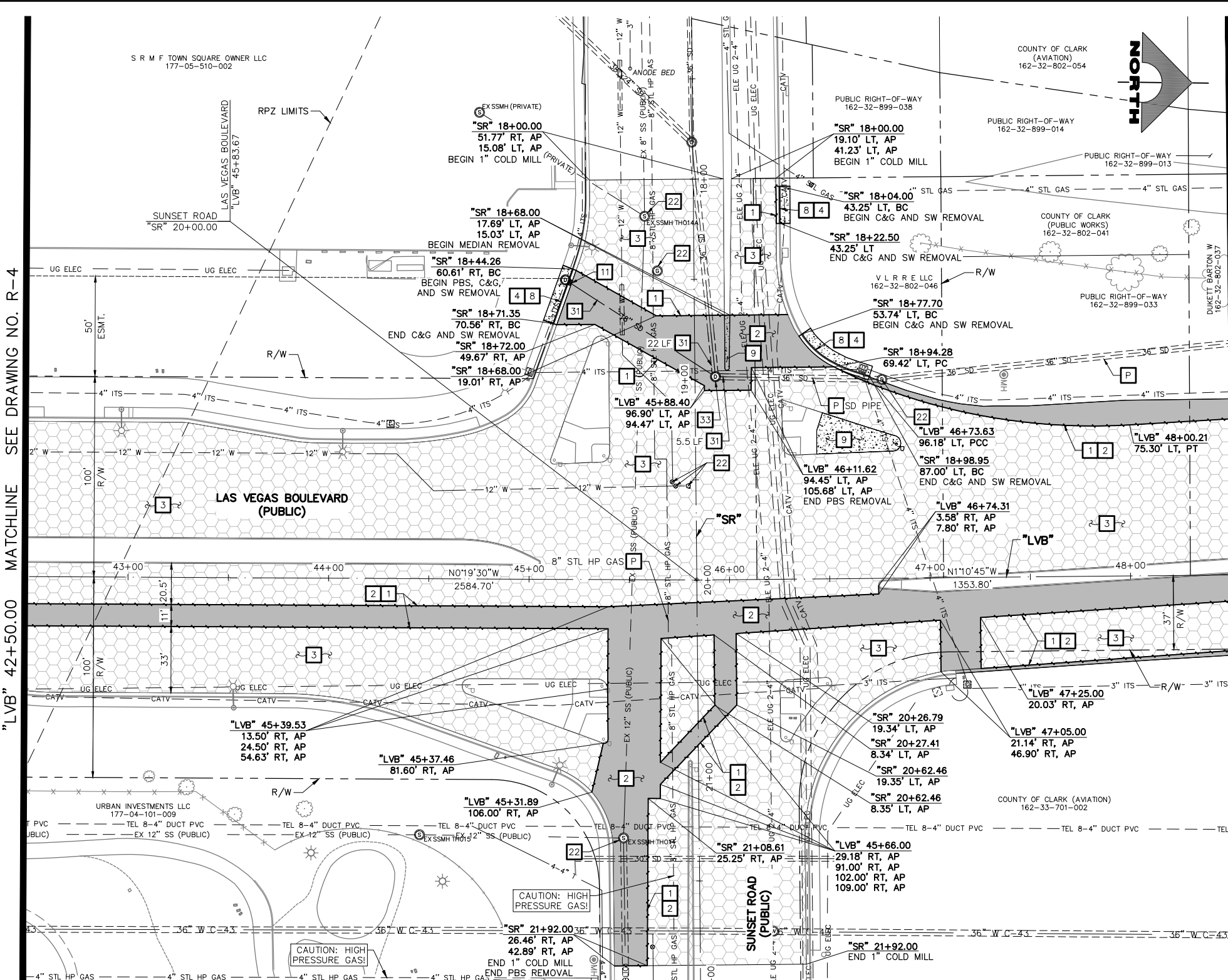


PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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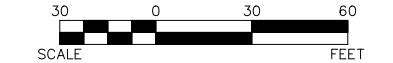
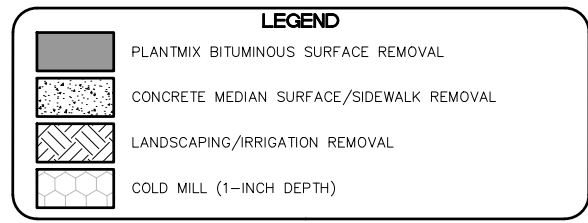
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DRAWING NO. **R-4**  
SHT. 22 OF 159  
L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



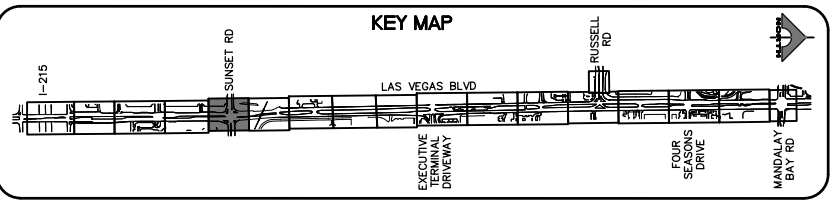
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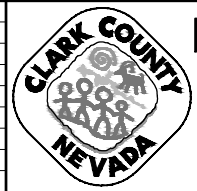
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
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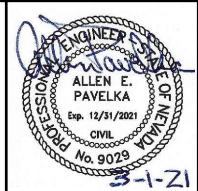
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**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

REV. NO.	DATE	DESCRIPTION	APPROVED



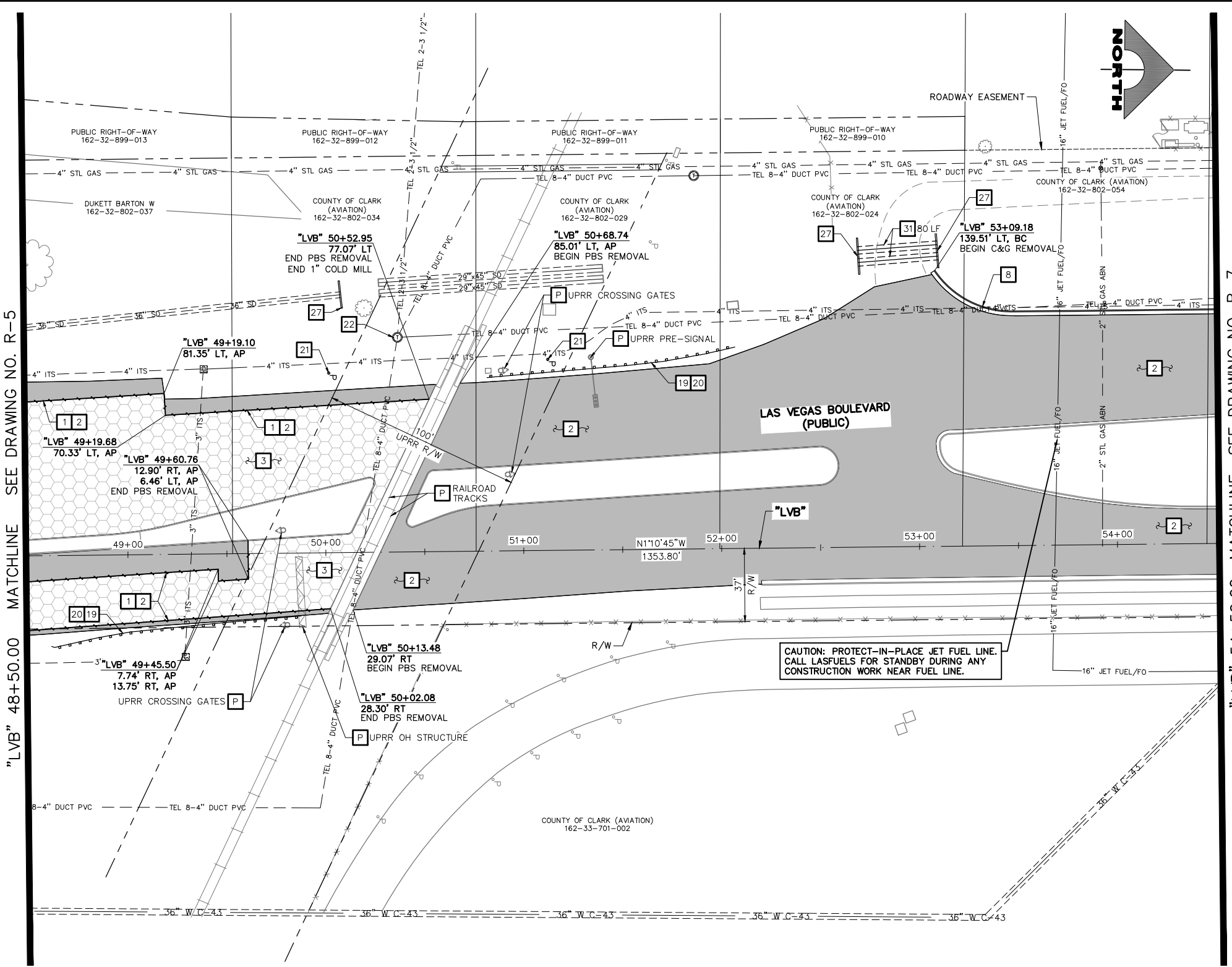
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
"LVB" 42+50.00 TO "LVB" 48+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



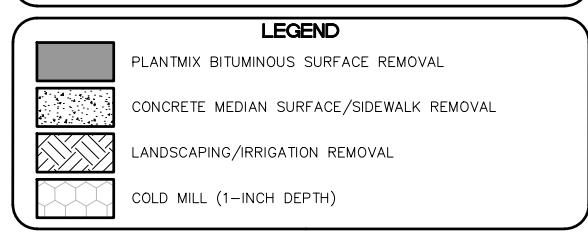
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. **R-5**  
SHT. 23 OF 159  
L-2272





- ### REMOVAL NOTES
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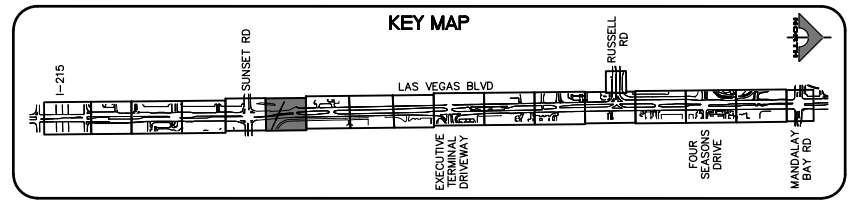


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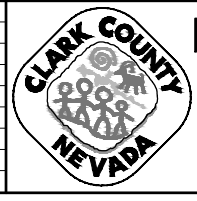
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

#### "LVB" 48+50.00 TO "LVB" 54+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



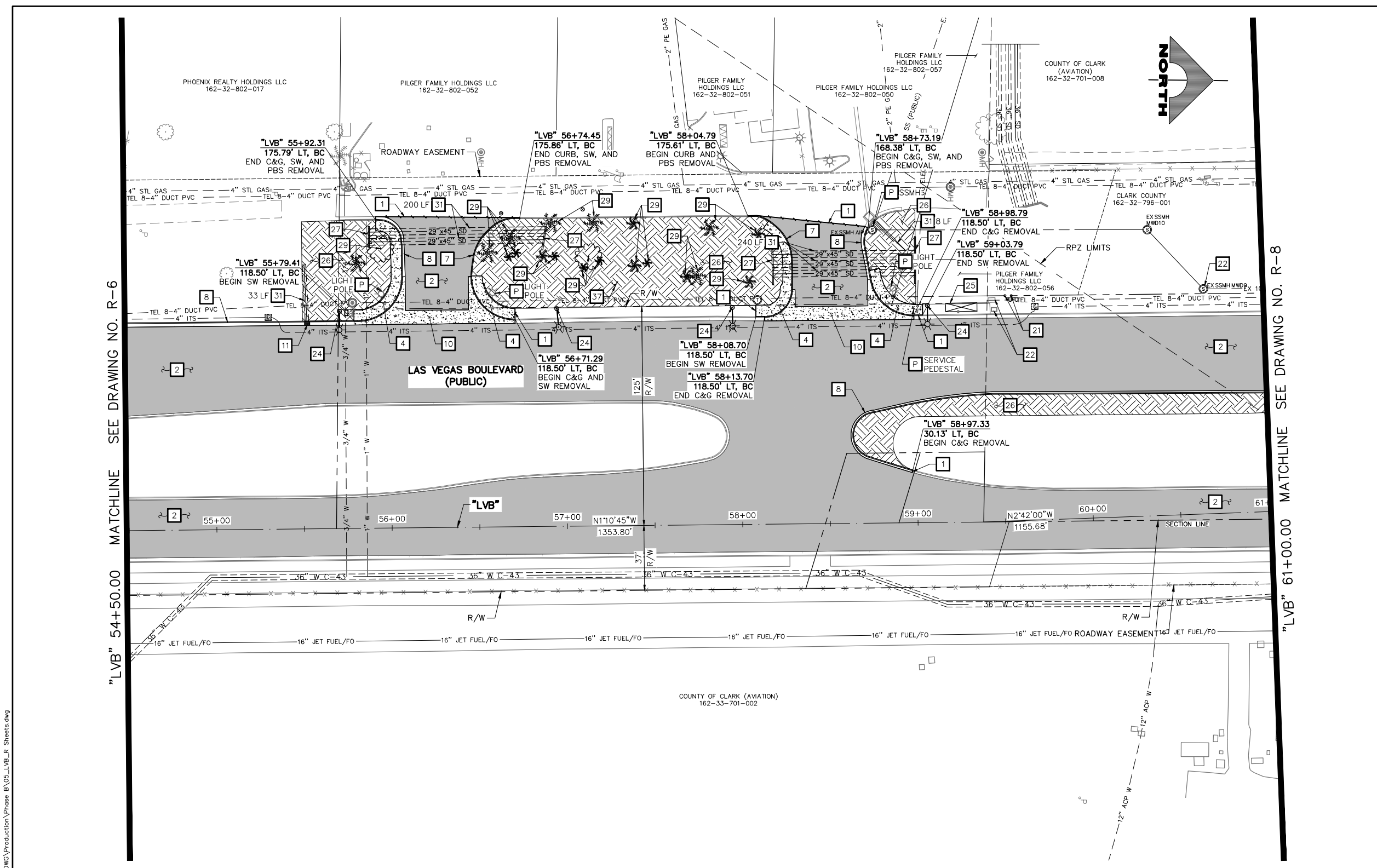
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY:

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-6
VERT: NONE	SHT. 24 OF 159
FIELD BOOK	L-2272

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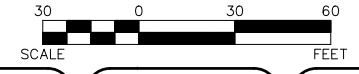
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



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### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



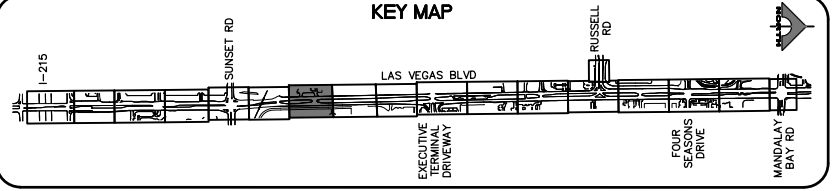
"LVB" 54+50.00 MATCHLINE SEE DRAWING NO. R-6

"LVB" 61+00.00 MATCHLINE SEE DRAWING NO. R-8

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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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CCWRD PIPES NUMBER: **20.793**



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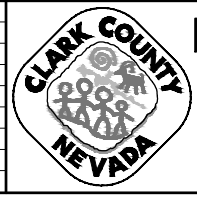
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SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

REV. NO.	DATE	DESCRIPTION	APPROVED

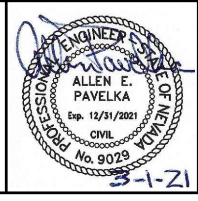


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

#### "LVB" 54+50.00 TO "LVB" 61+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. **R-7** SHT. 25 OF 159  
L-2272

02-26-21 09:19:35 F:\Projects\500\500-897-LV\DWG\Production\Phase B\05\_LVB\_R\_Sheets.dwg

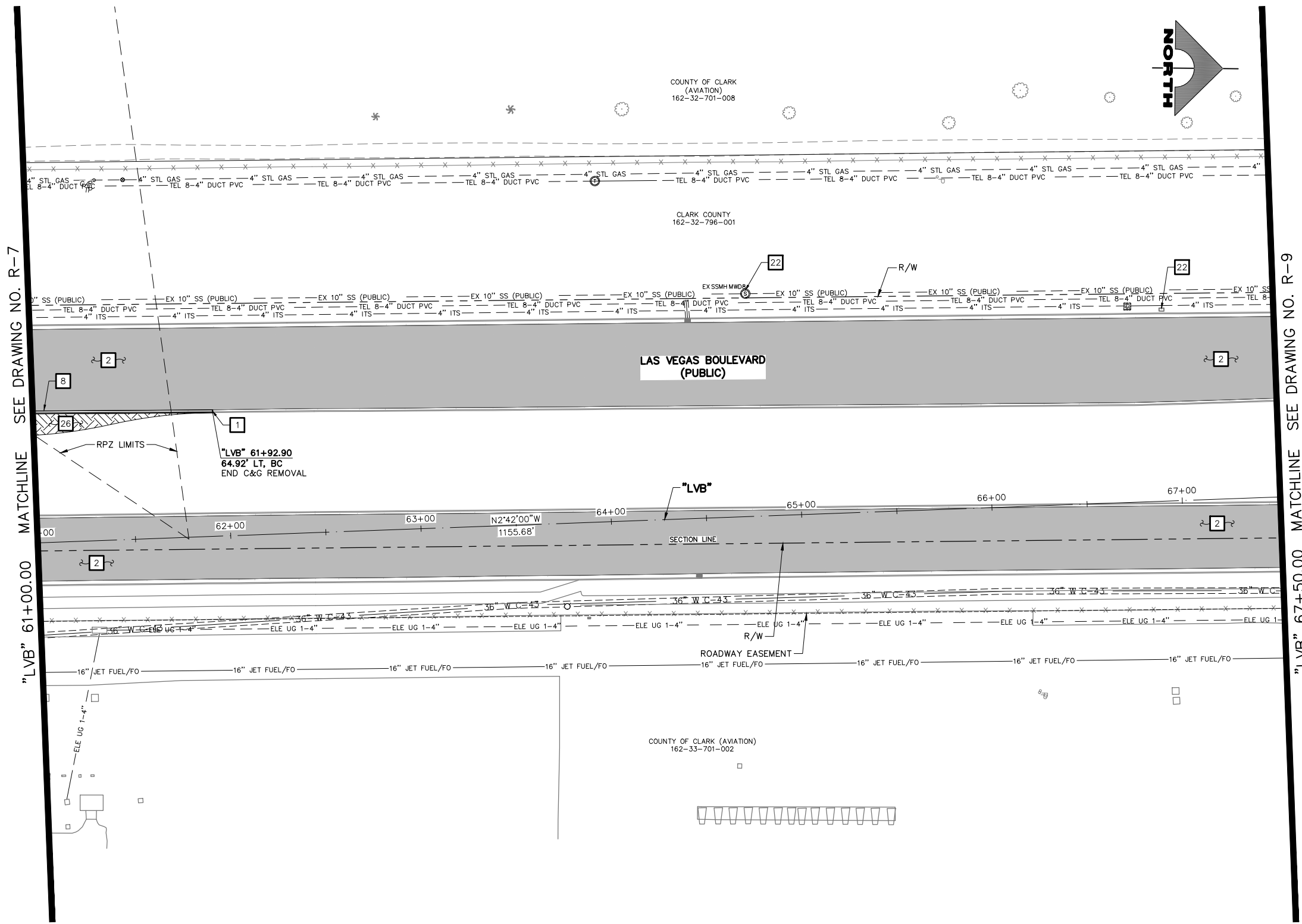
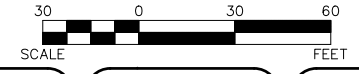
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR FENCE WALL
  - 17 REMOVE CHAIN-LINK FENCE
  - 18 REMOVE AND RESET PRIVATE WROUGHT IRON FENCE
  - 19 REMOVE GUARDRAIL
  - 20 REMOVE GUARDRAIL FLARED END TERMINAL
  - 21 REMOVE POST
  - 22 ADJUST/RELOCATE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE C-DRAWINGS)
  - 23 REMOVE AND SALVAGE SERVICE PEDESTAL
  - 24 REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION TO 18-INCHES BELOW FINISHED GRADE EXCEPT IN MEDIAN, REMOVE COMPLETELY.
  - 25 REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - 26 REMOVE LANDSCAPING/IRRIGATION AND RECONNECT
  - 27 REMOVE CONCRETE HEADWALL
  - 28 REMOVE GROUTED RIPRAP
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  - 32 REMOVE AND RELOCATE PALM TREE
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  - 35 REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
  - 36 REMOVE CONCRETE BARRIER RAIL
  - 37 REMOVE PRIVATE SIGN (BY PROPERTY OWNER)
  - P PROTECT-IN-PLACE

### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



SEE DRAWING NO. R-7  
MATCHLINE

SEE DRAWING NO. R-9  
MATCHLINE

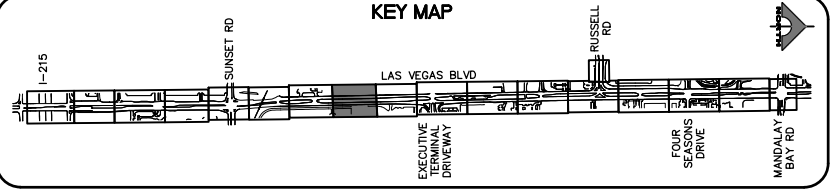
**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

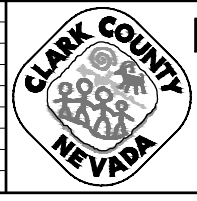
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
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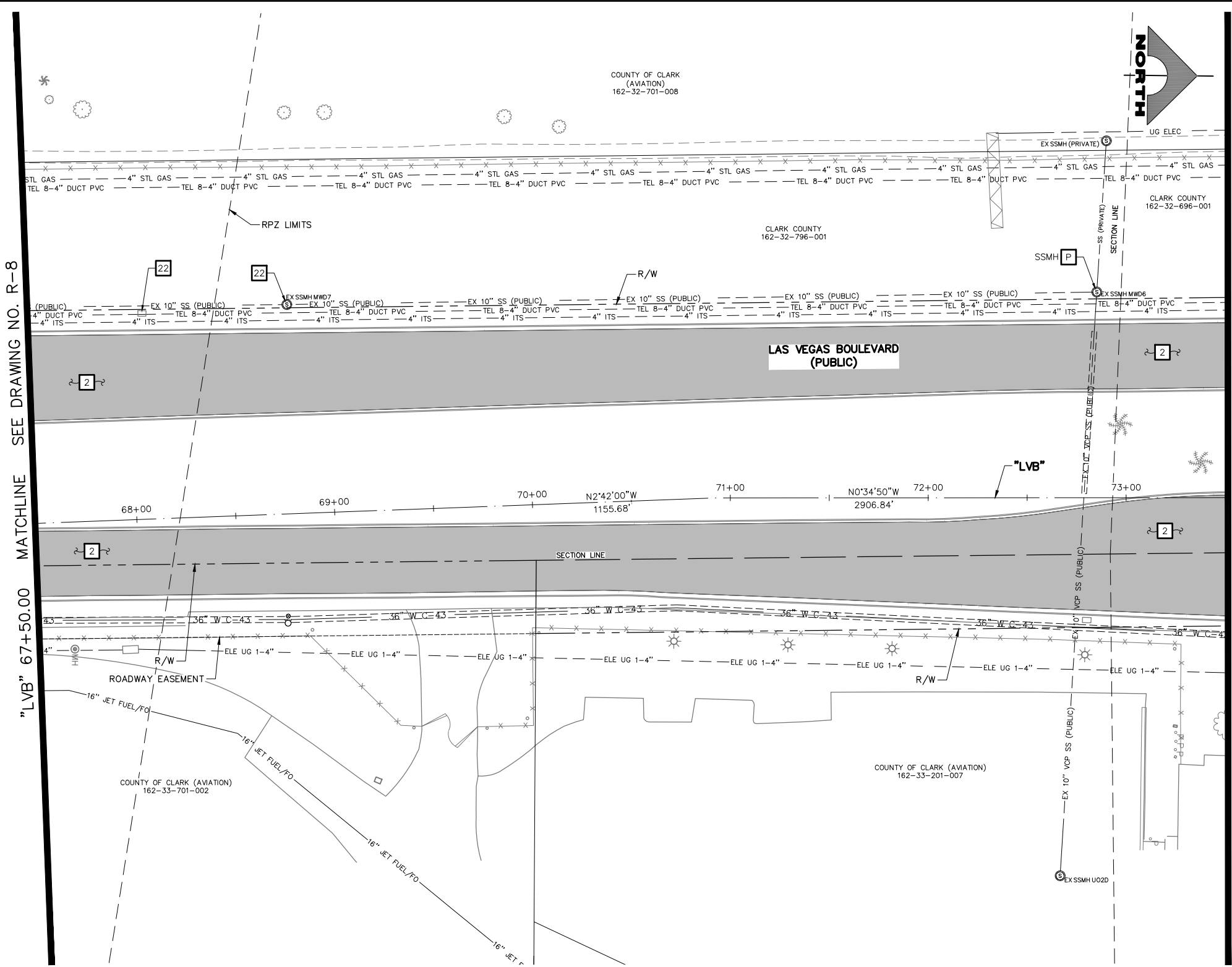


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"LVB" 61+00.00 TO "LVB" 67+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

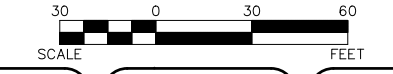
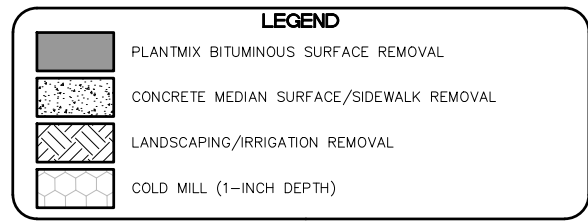


PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. R-8  
SHT. 26 OF 159  
L-2272



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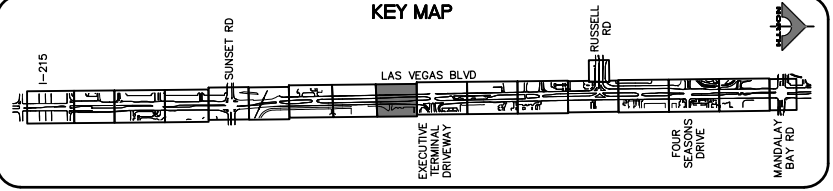
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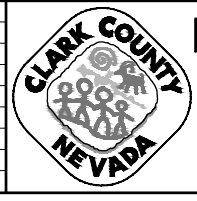
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SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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**CCWRD PIPES NUMBER: 20.793**  
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REV. NO.	DATE	DESCRIPTION	APPROVED

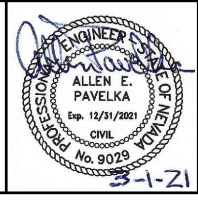


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

### "LVB" 67+50.00 TO "LVB" 73+50.00

### CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



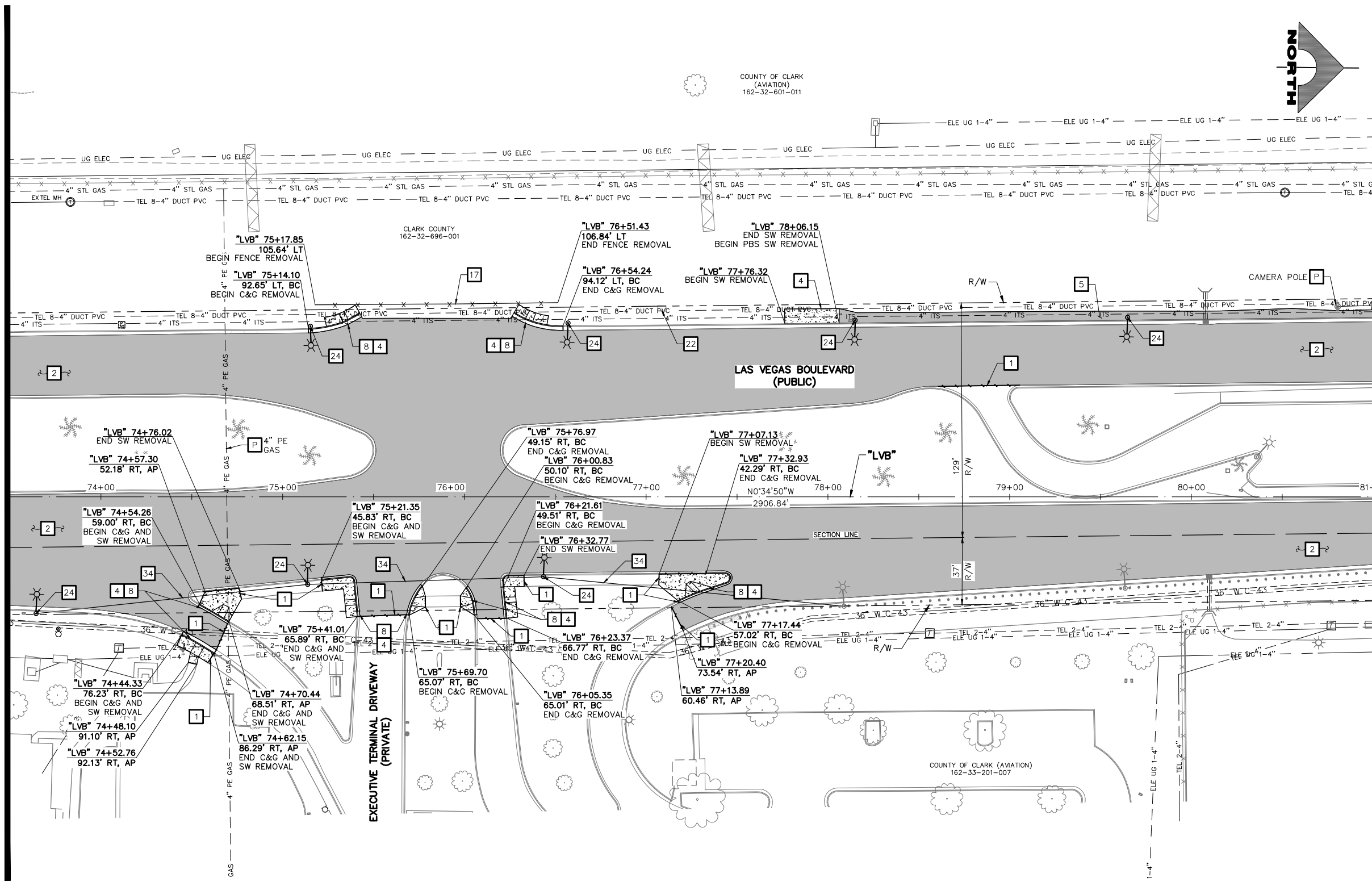
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-9
VERT: NONE	SHT. 27 OF 159
FIELD BOOK	L-2272

"LVB" 73+50.00 MATCHLINE SEE DRAWING NO. R-9

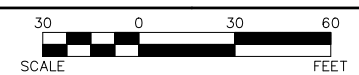
"LVB" 81+00.00 MATCHLINE SEE DRAWING NO. R-11



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
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### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



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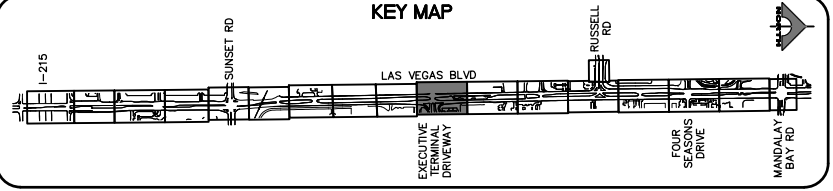
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

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**CCWRD PIPES NUMBER: 20.793**

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**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

# "LVB" 73+50.00 TO "LVB" 81+00.00

## CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **R-10**  
SHT. 28 OF 159  
L-2272

**GCV**  
ENGINEERS & SURVEYORS

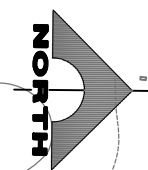
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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02-26-21 09:20:22 F:\Projects\500\500-897-LV\DWG\Production\Phase B\05\_LVB\_R\_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

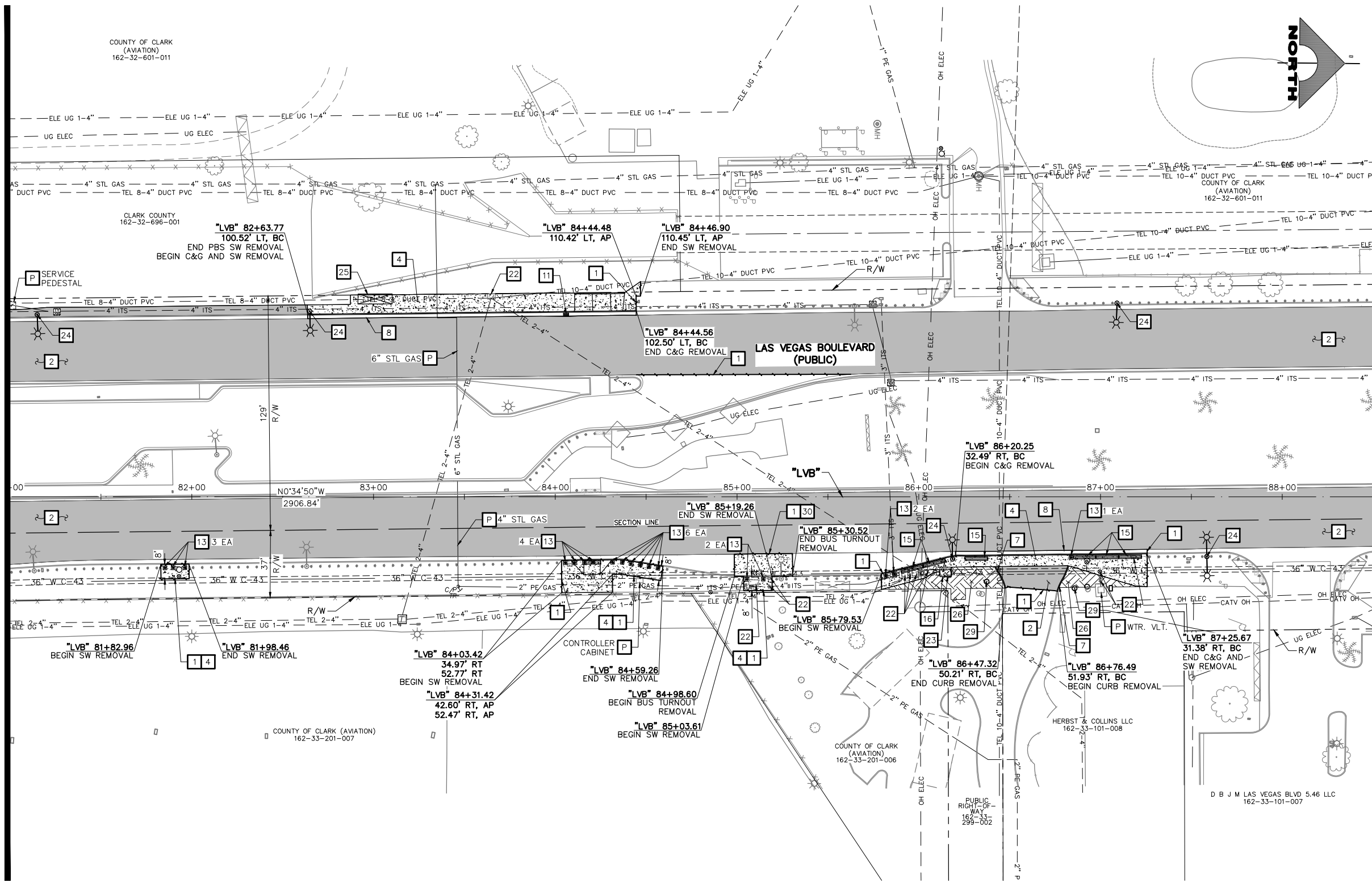


COUNTY OF CLARK  
(AVIATION)  
162-32-601-011



"LVB" 81+00.00 MATCHLINE SEE DRAWING NO. R-10

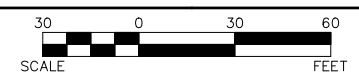
"LVB" 88+50.00 MATCHLINE SEE DRAWING NO. R-12



- ### REMOVAL NOTES
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  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
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  - P PROTECT-IN-PLACE

### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
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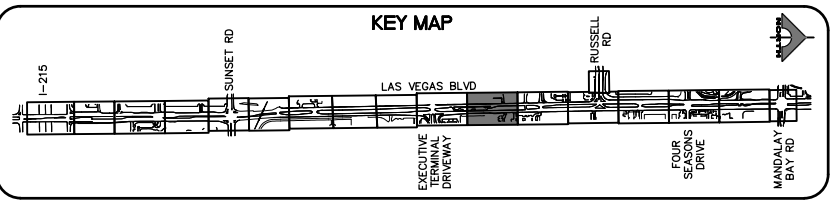
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## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

# "LVB" 81+00.00 TO "LVB" 88+50.00

## CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

SCALE: HORIZ: AS SHOWN  
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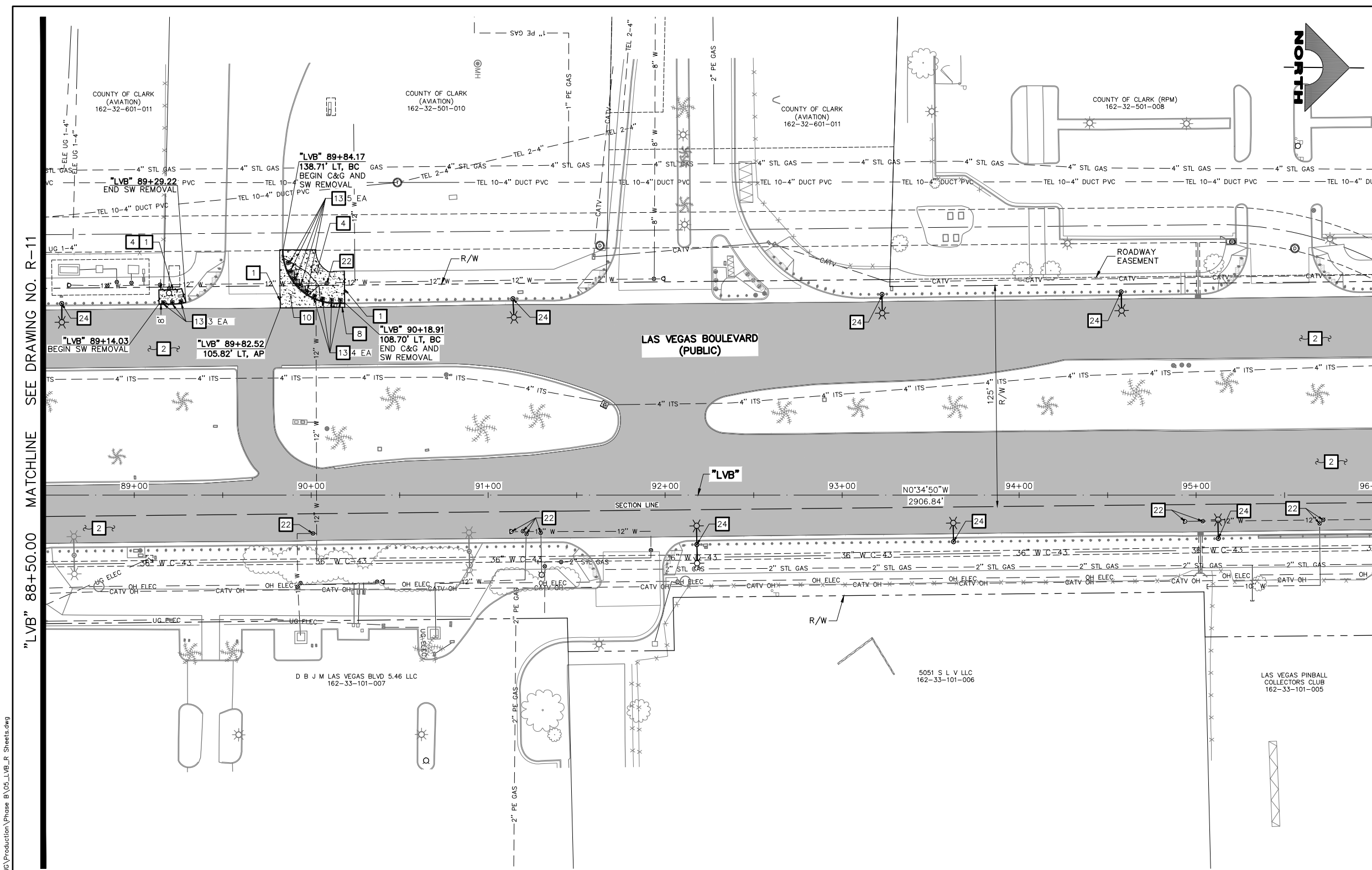
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SHT. 29 OF 159  
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02-26-21 09:20:38 F:\Projects\500\500-897-LV\DWG\Production\Phase B\05\_LVB\_R Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



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  - 23 REMOVE AND SALVAGE SERVICE PEDESTAL
  - 24 REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION TO 18-INCHES BELOW FINISHED GRADE EXCEPT IN MEDIAN, REMOVE COMPLETELY. REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - 25 REMOVE LANDSCAPING/IRRIGATION AND RECONNECT
  - 26 REMOVE CONCRETE HEADWALL
  - 27 REMOVE GROUDED RIPRAP
  - 28 REMOVE TREE
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  - 30 REMOVE STORM DRAIN PIPE
  - 31 REMOVE AND RELOCATE PALM TREE
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  - 33 REMOVE OVERHEAD CONDUCTORS (STREET LIGHT)
  - 34 REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
  - 35 REMOVE CONCRETE BARRIER RAIL
  - 36 REMOVE PRIVATE SIGN (BY PROPERTY OWNER)
  - P PROTECT-IN-PLACE

### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)

30 0 30 60  
SCALE FEET

"LVB" 88+50.00 MATCHLINE SEE DRAWING NO. R-11

"LVB" 96+00.00 MATCHLINE SEE DRAWING NO. R-13

**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

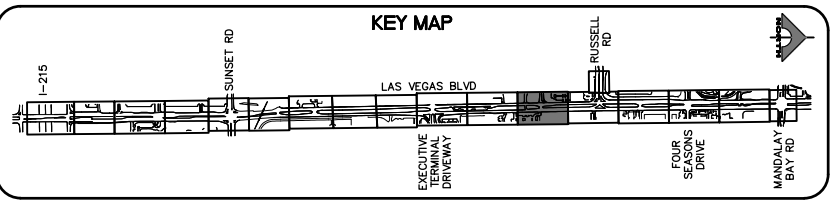
**APPROVED FOR CONSTRUCTION**

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**REMOVAL PLAN**

**"LVB" 88+50.00 TO "LVB" 96+00.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

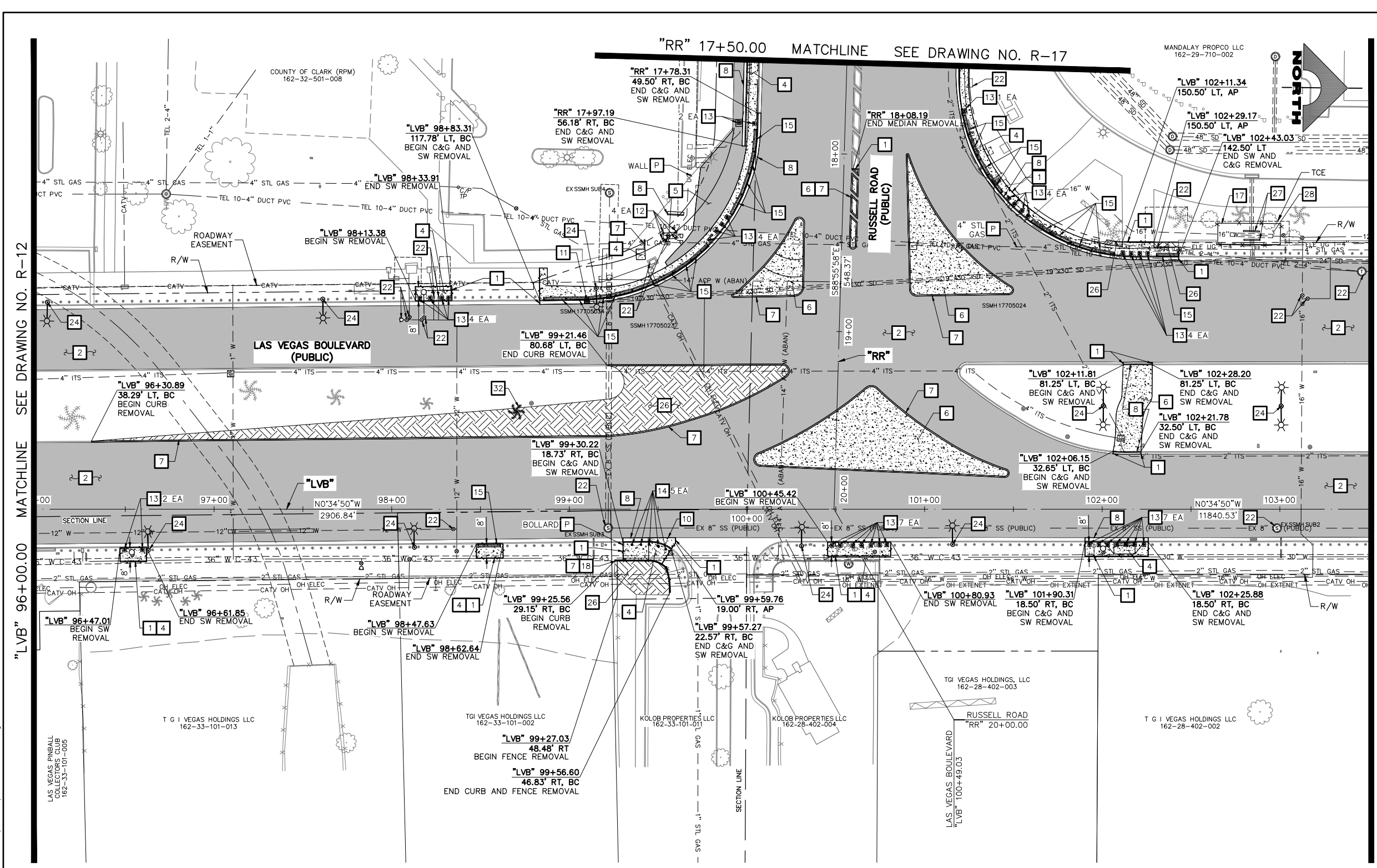
DRAWING NO. **R-12** SHT. 30 OF 159 L-2272

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 gcvengineering.com

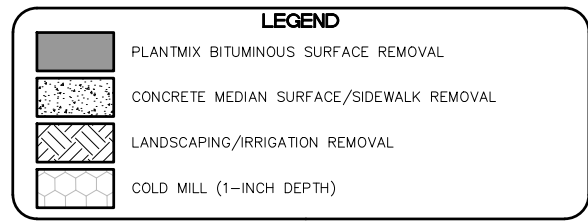
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
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  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
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  - 8 REMOVE CURB AND GUTTER
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  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR BLOCK WALL
  - 17 REMOVE CHAIN-LINK FENCE
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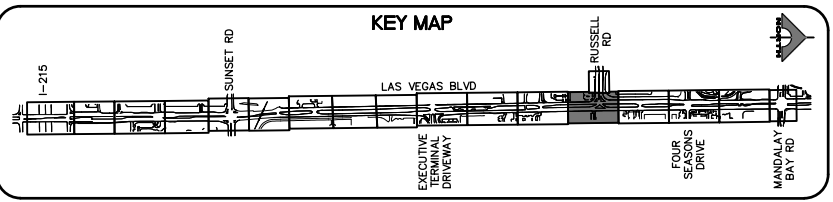
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

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CCWRD PIPES NUMBER: 20.793

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CALL BEFORE YOU DIG  
1-702-227-2929

FAST  
Call before you UnderGround.  
1-702-432-5300

Call before you Dig  
Call 811  
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

# "LVB" 96+00.00 TO "LVB" 103+50.00

## CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

ALLEN E. PAVELKA  
Exp. 12/31/2021  
No. 9029

PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

SCALE: HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO. R-13  
SHT. 31 OF 159  
L-2272

**GCV**  
ENGINEERS SURVEYORS

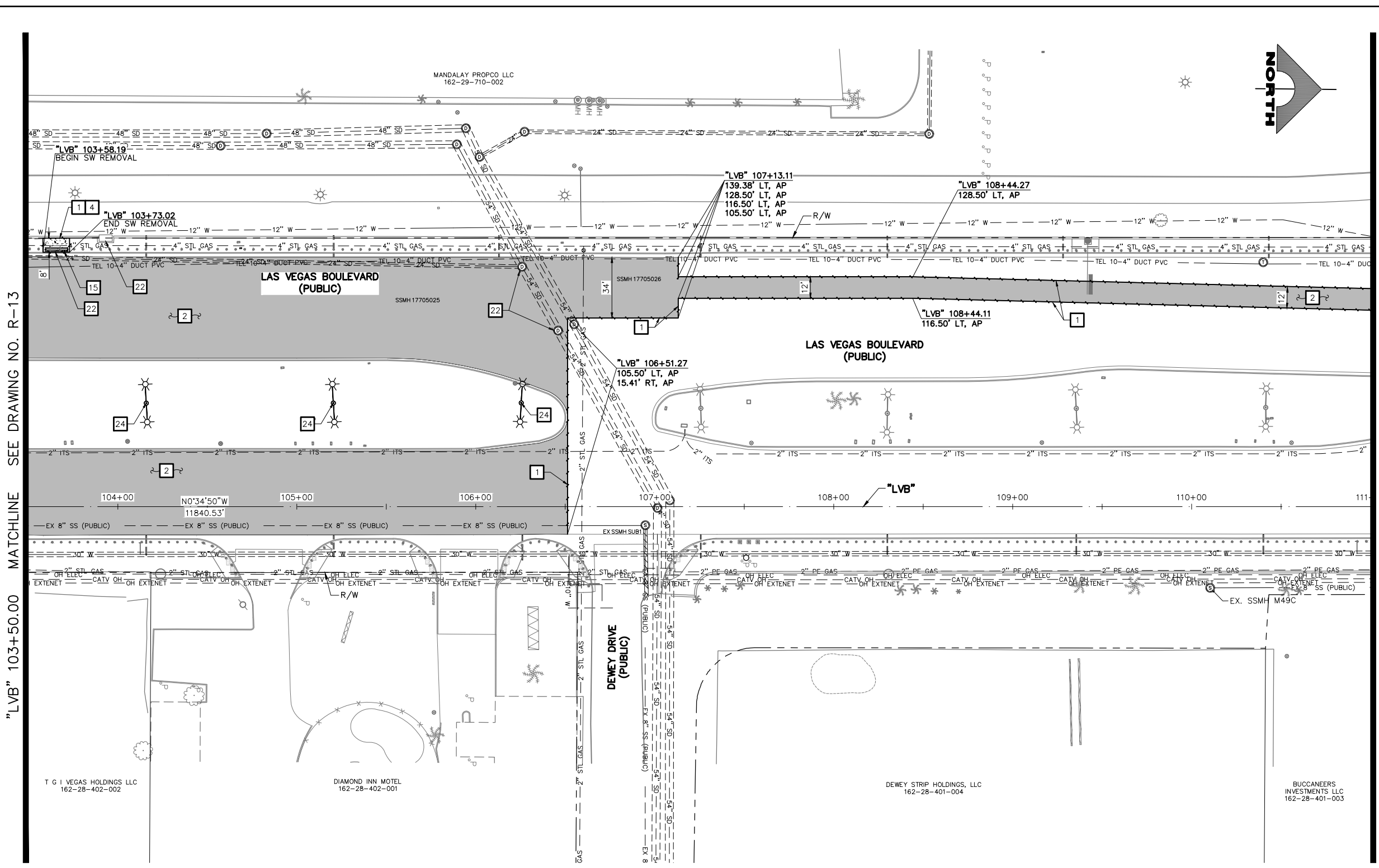
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

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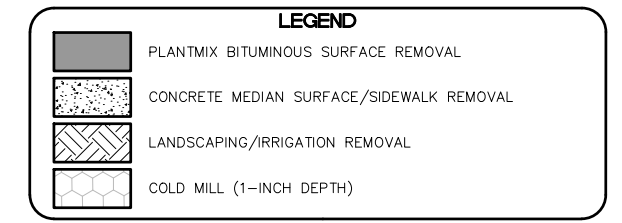
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



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  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
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  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
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  - 16 REMOVE MODULAR LINK WALL
  - 17 REMOVE CHAIN-LINK FENCE
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  - P PROTECT-IN-PLACE



SEE DRAWING NO. R-13  
MATCHLINE "LVB" 103+50.00

MATCHLINE "LVB" 111+00.00  
SEE DRAWING NO. R-15

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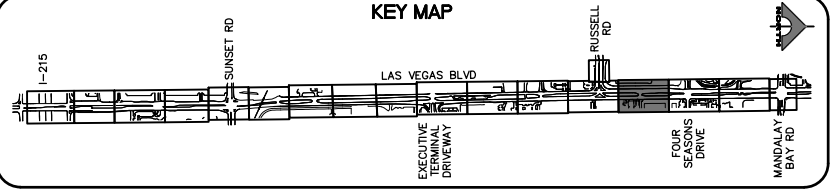
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

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CCWRD PIPES NUMBER: 20.793

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**CALL BEFORE YOU DO OVERHEAD**

Avoid hitting overhead power lines. It's costly.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

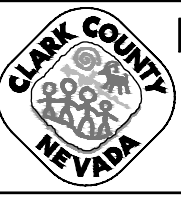
Call before you Dig

Avoid cutting underground utility lines. It's costly.

**Call 811**

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

#### "LVB" 103+50.00 TO "LVB" 111+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

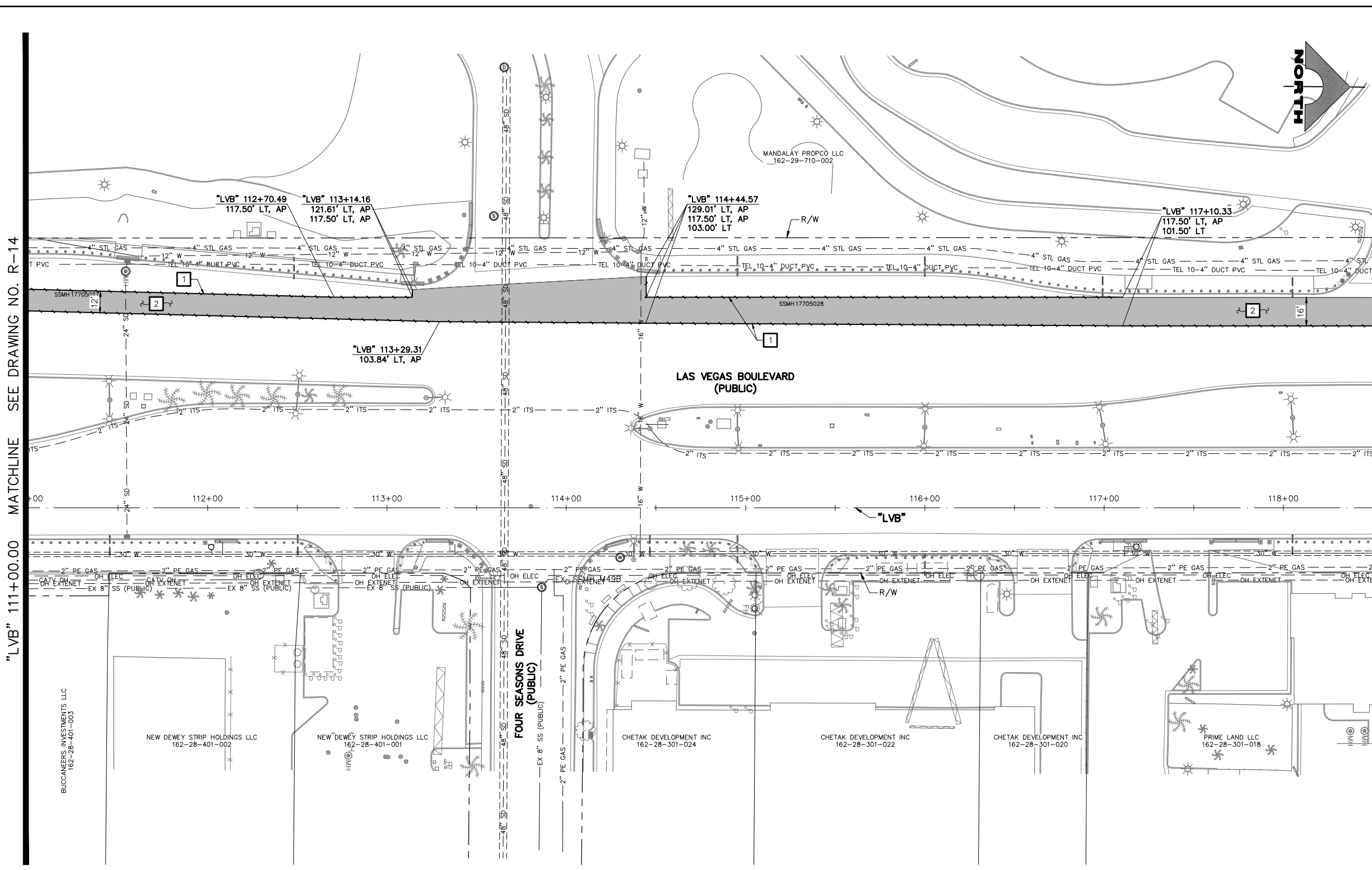
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DRAWING NO. **R-14** SHT. 32 OF 159

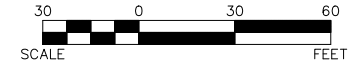
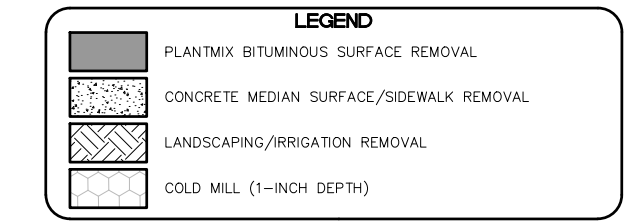
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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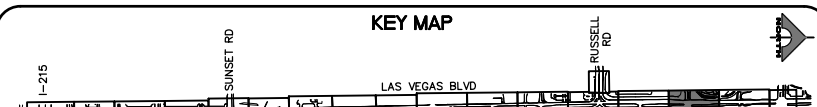
- ### REMOVAL NOTES
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

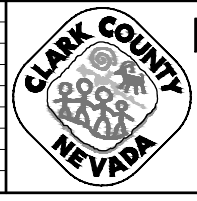


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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
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REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

#### "LVB" 111+00.00 TO "LVB" 118+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

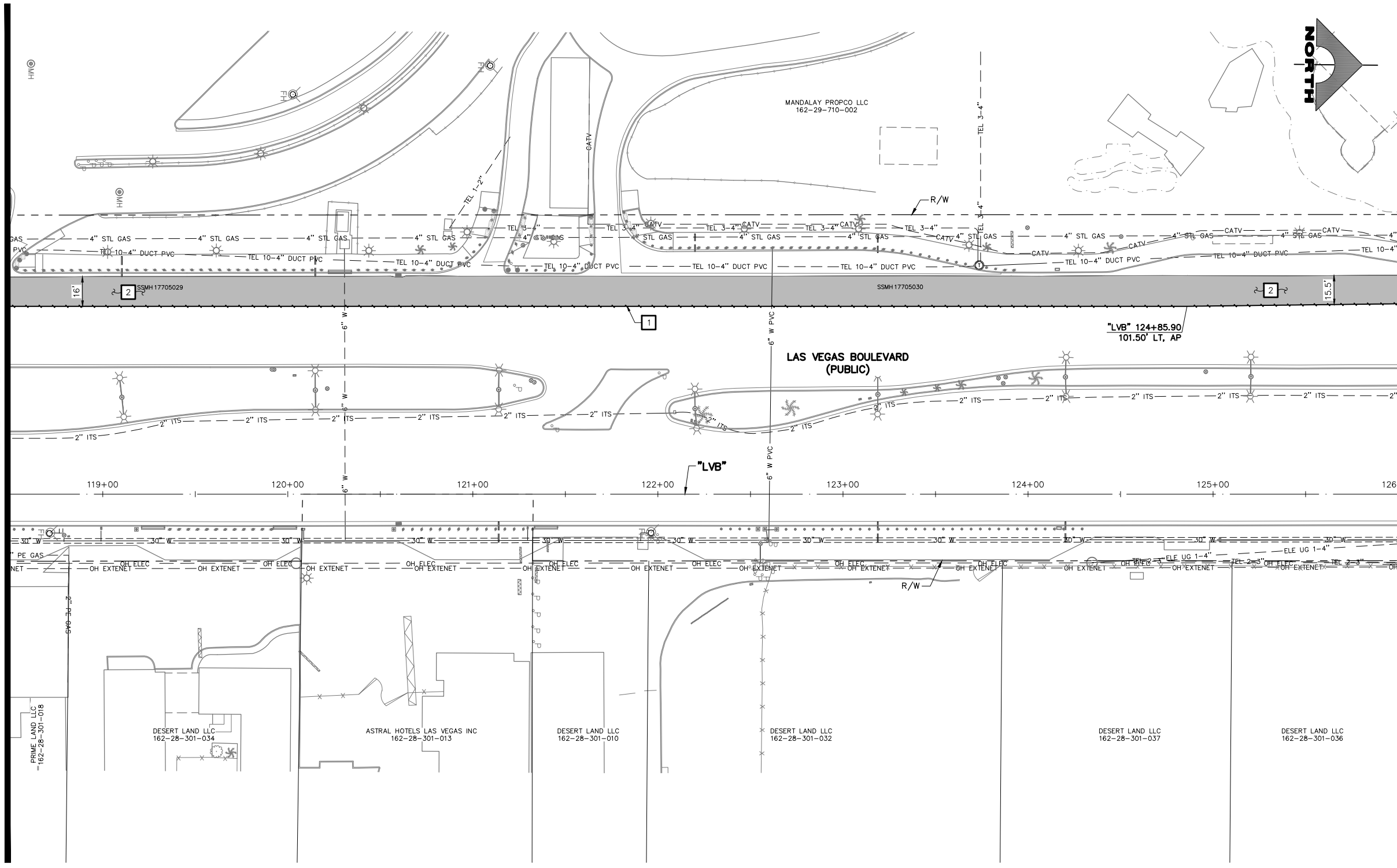
DRAWING NO. **R-15**  
SHT. 33 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

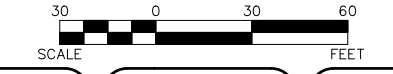
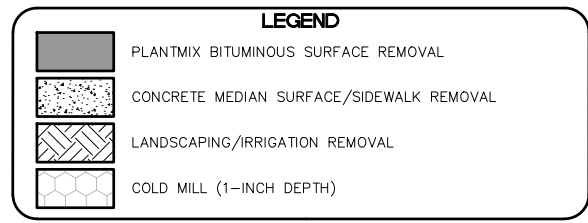


"LVB" 118+50.00 MATCHLINE SEE DRAWING NO. R-15

MATCHLINE SEE DRAWING NO. R-17



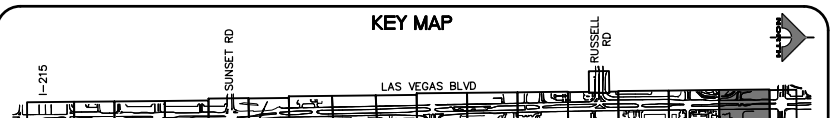
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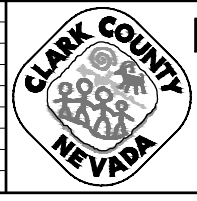


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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
"LVB" 118+50.00 TO "LVB" 126+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
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LAS VEGAS, NV 89146  
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F: 702.804.2299  
gcvengineering.com

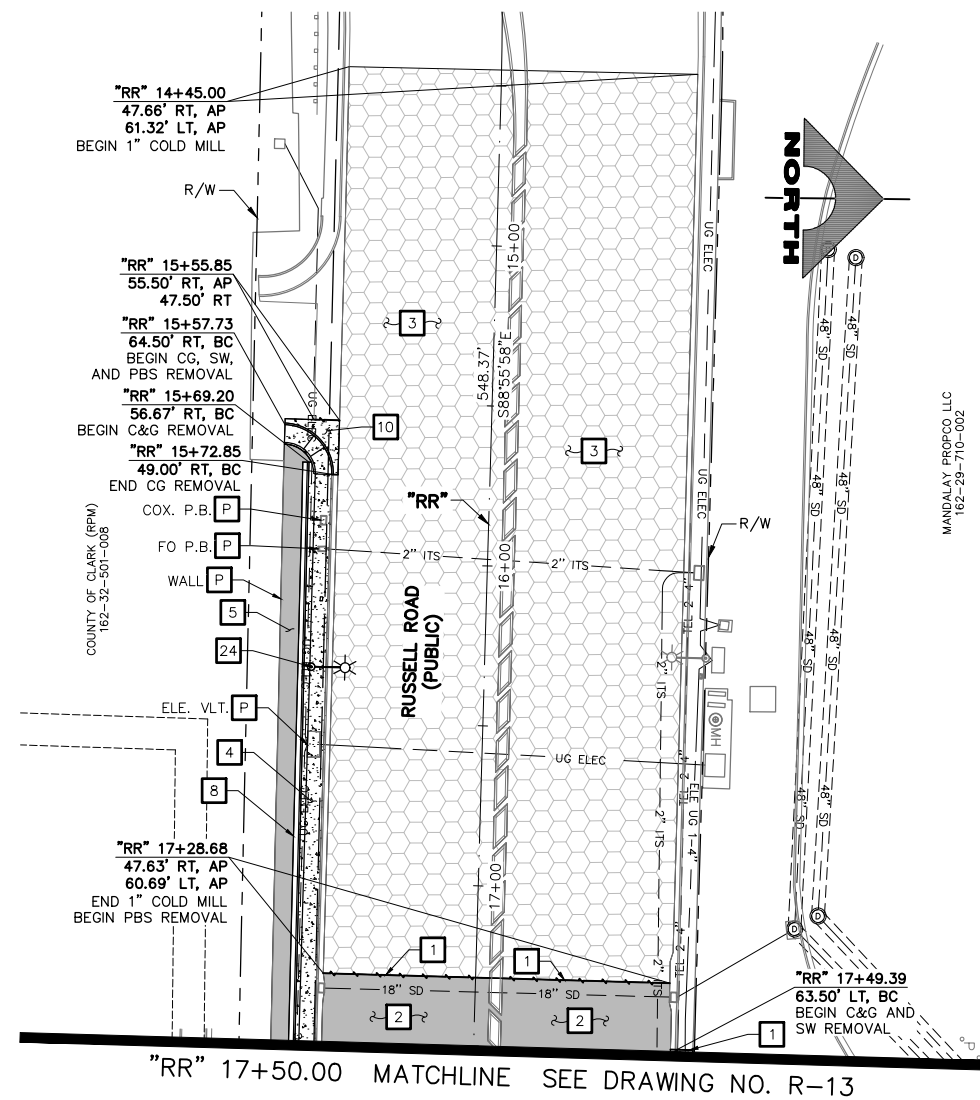
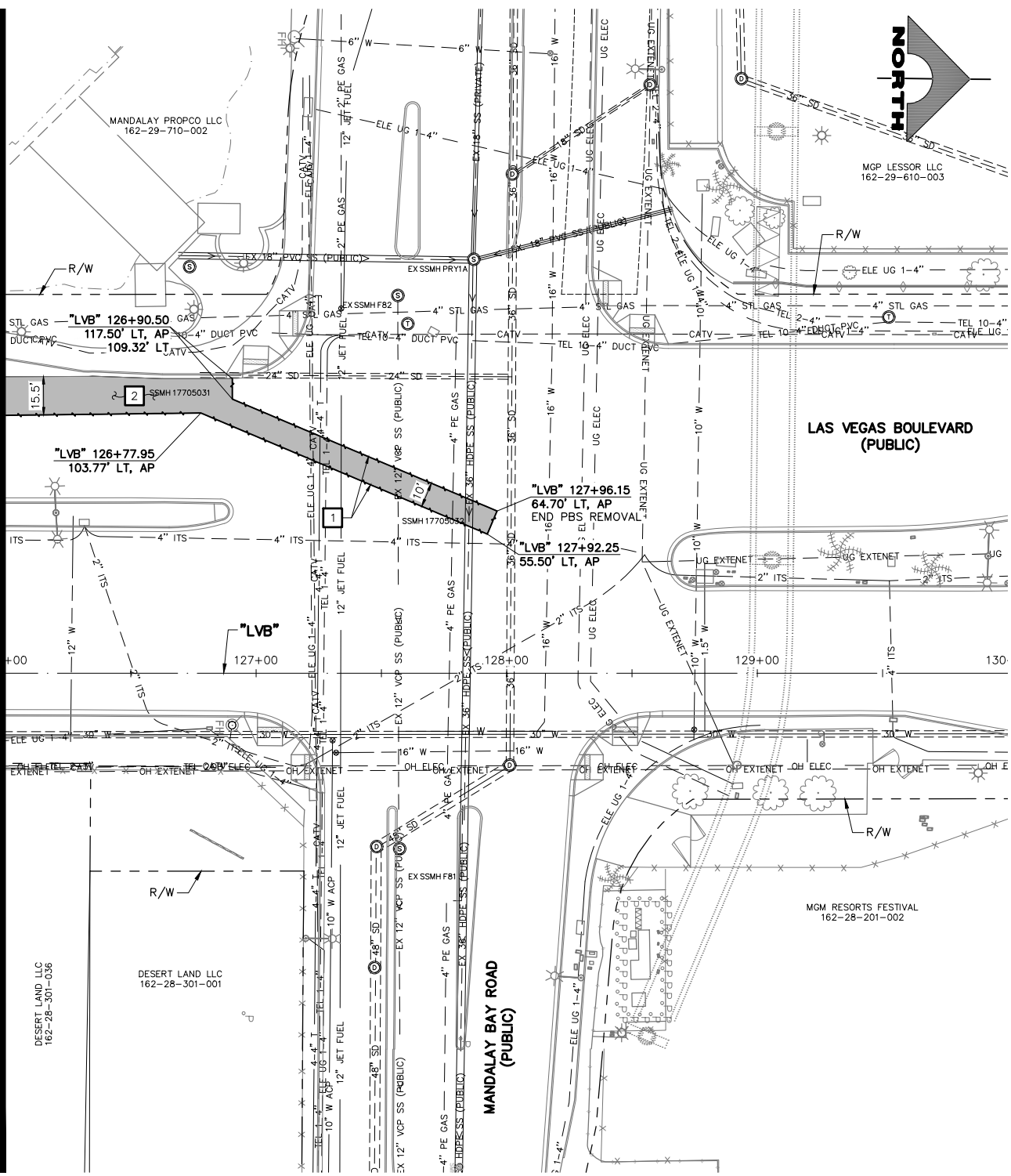
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DRAWING NO. R-16  
SHT. 34 OF 159  
L-2272

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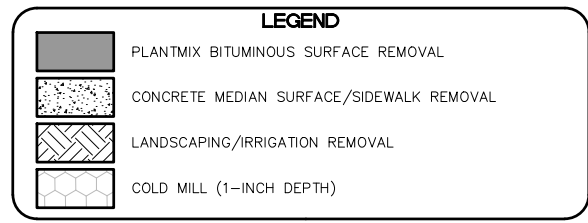
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

F:\Projects\500\500-897-LV\DWG\Production\Phase B\05\_LVB\_R\_Sheets.dwg

"LVB" 126+00.00 MATCHLINE SEE DRAWING NO. R-16



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR BLOCK WALL
  - 17 REMOVE CHAIN-LINK FENCE
  - 18 REMOVE AND RESET PRIVATE WROUGHT IRON FENCE
  - 19 REMOVE GUARDRAIL
  - 20 REMOVE GUARDRAIL FLARED END TERMINAL
  - 21 REMOVE POST
  - 22 ADJUST/RELOCATE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE C-DRAWINGS)
  - 23 REMOVE AND SALVAGE SERVICE PEDESTAL
  - 24 REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION TO 18-INCHES BELOW FINISHED GRADE EXCEPT IN MEDIAN. REMOVE COMPLETELY. REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - 25 REMOVE LANDSCAPING/IRRIGATION AND RECONNECT
  - 26 REMOVE CONCRETE HEADWALL
  - 27 REMOVE GROUDED RIPRAP
  - 28 REMOVE TREE
  - 29 REMOVE CONCRETE BUS TURN-OUT
  - 30 REMOVE STORM DRAIN PIPE
  - 31 REMOVE AND RELOCATE PALM TREE
  - 32 REMOVE STORM DRAIN MANHOLE
  - 33 REMOVE OVERHEAD CONDUCTORS (STREET LIGHT)
  - 34 REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
  - 35 REMOVE CONCRETE BARRIER RAIL
  - 36 REMOVE PRIVATE SIGN (BY PROPERTY OWNER)
  - P PROTECT-IN-PLACE



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

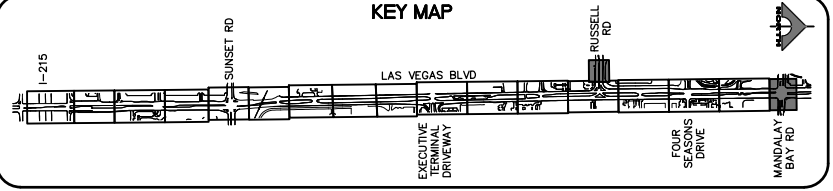
PROTECT IN PLACE AND ADJUST ALL LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **20.793**

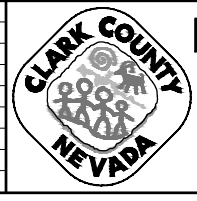
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

"LVB" 126+00.00 TO "LVB" 130+00.00 & "RR" 14+00.00 TO "RR" 17+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

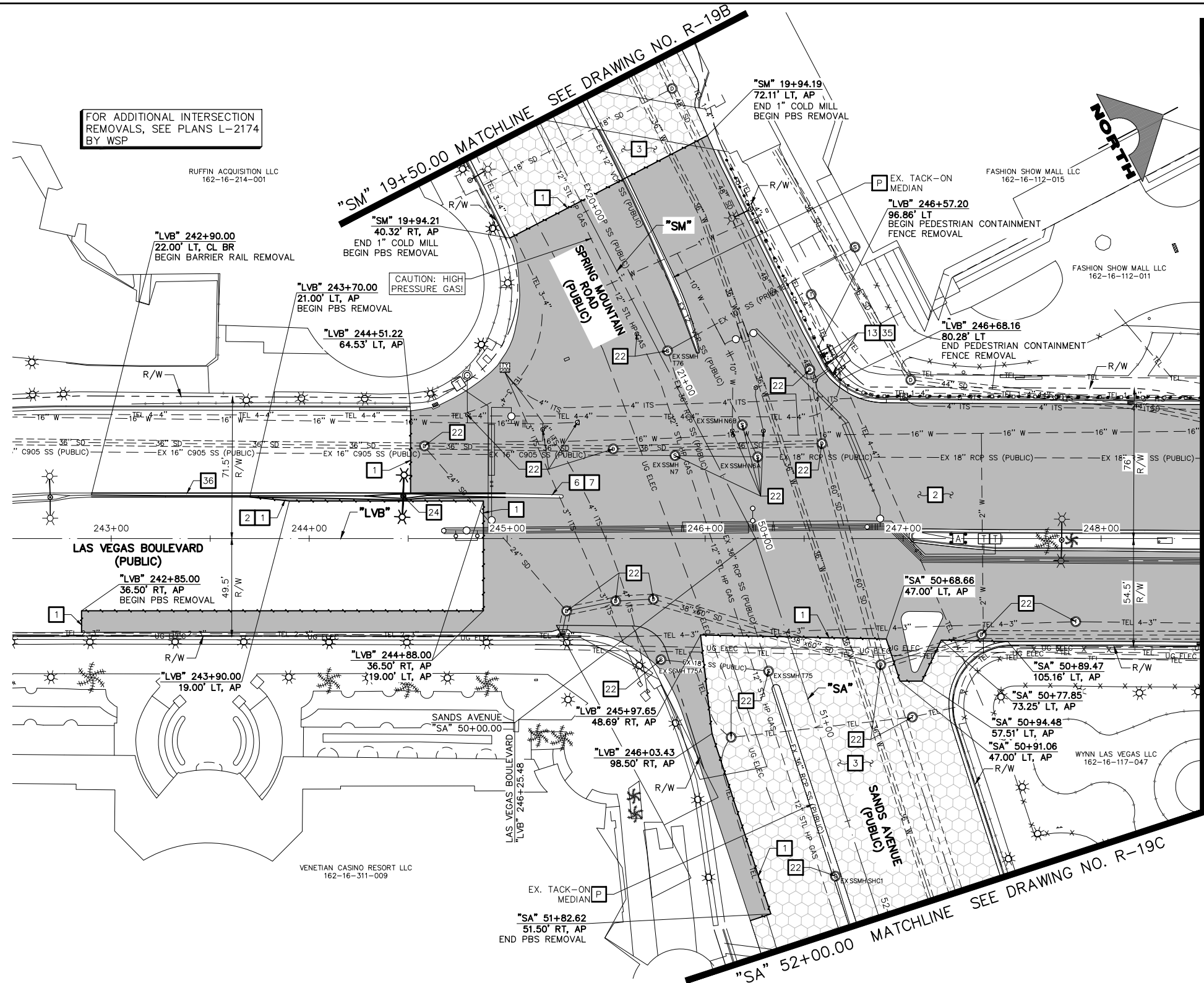
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-17
VERT: NONE	SHT. 35 OF 159
FIELD BOOK	L-2272

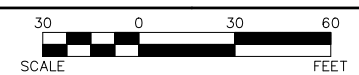
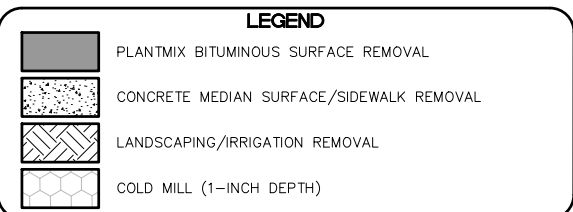
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



FOR ADDITIONAL INTERSECTION REMOVALS, SEE PLANS L-2174 BY WSP



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR BLOCK WALL
  - 17 REMOVE CHAIN-LINK FENCE
  - 18 REMOVE AND RESET PRIVATE WROUGHT IRON FENCE
  - 19 REMOVE GUARDRAIL
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  - 28 REMOVE AND SALVAGE TREE
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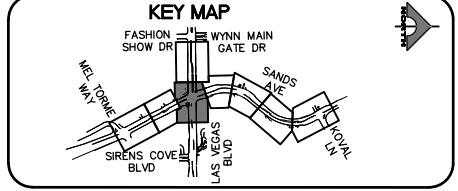
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793

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REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

#### "LVB" 242+50.00 TO "LVB" 248+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

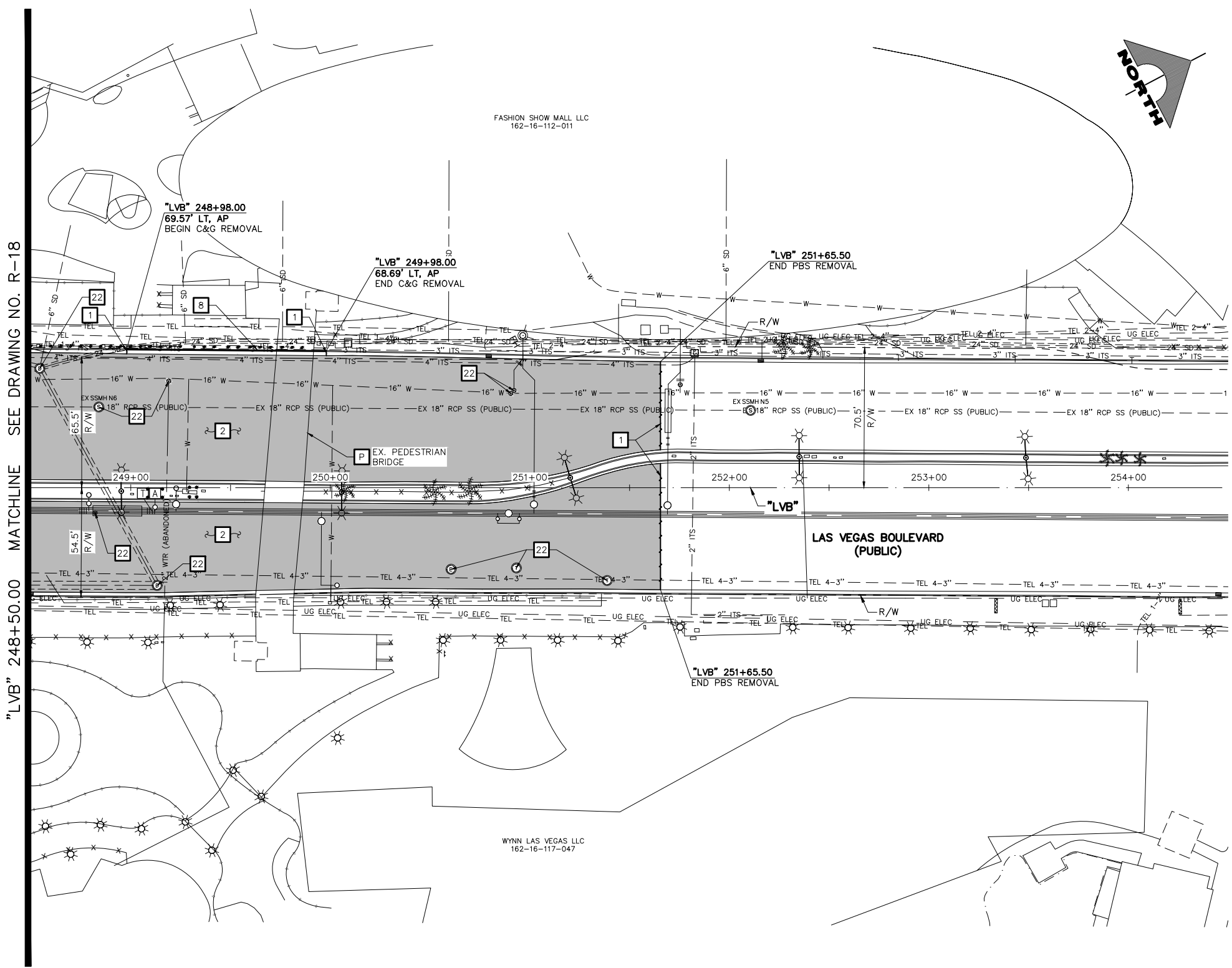
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DRAWING NO. **R-18**  
SHT. 36 OF 159  
L-2272

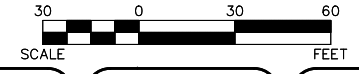
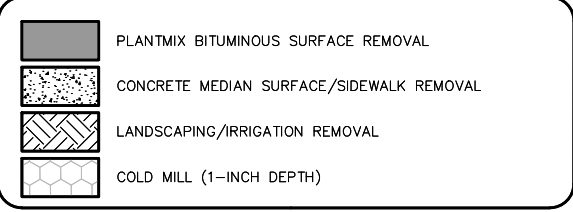
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





- REMOVAL NOTES**
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
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  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
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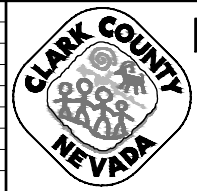
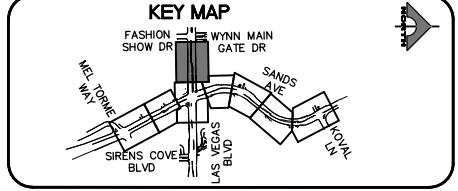
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

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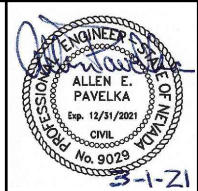


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**REMOVAL PLAN**

**"LVB" 248+50.00 TO "LVB" 254+50.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



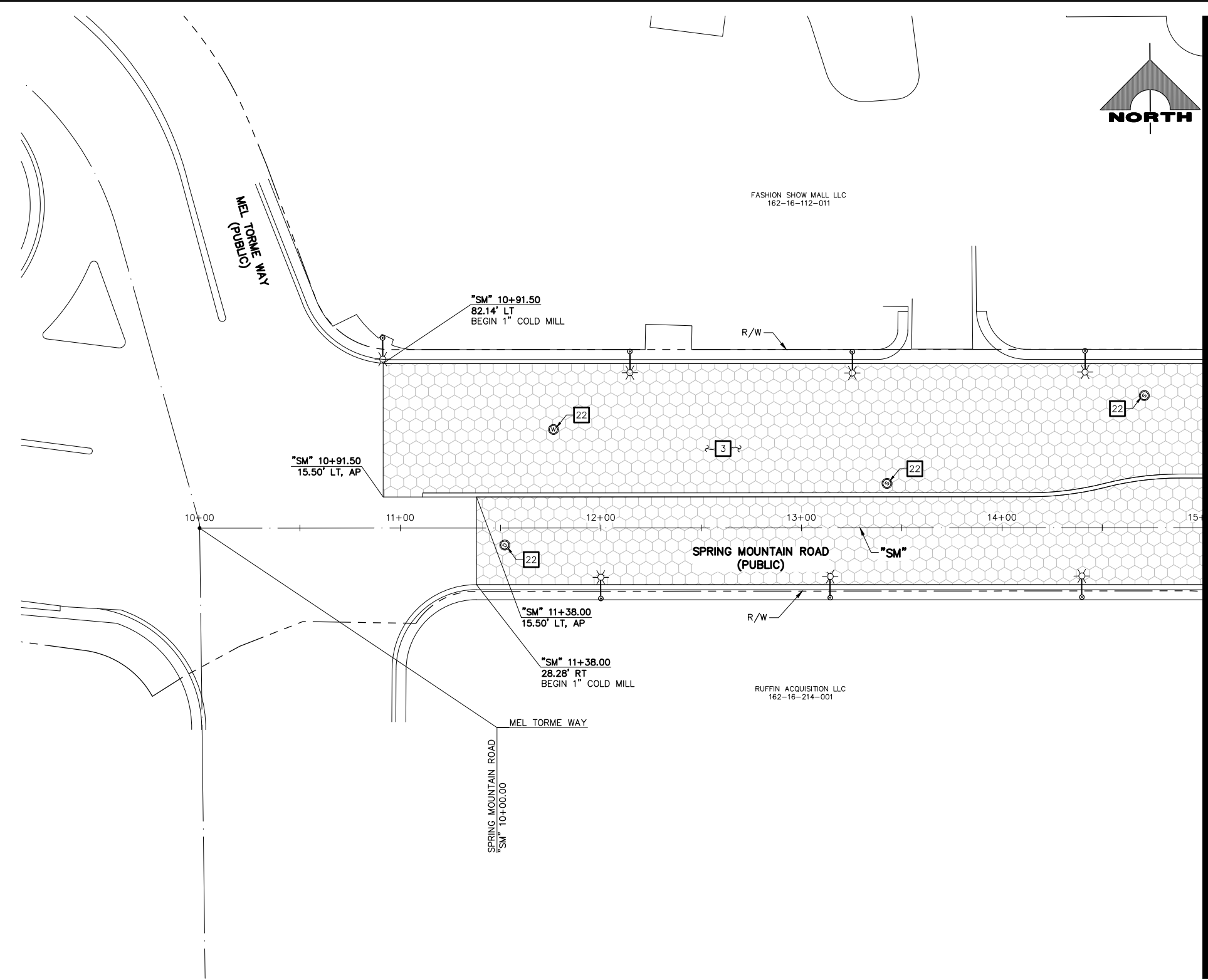
PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **R-19**  
 SHT. 37 OF 159  
 L-2272

F:\Projects\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\05-LVB-R\_Sheets.dwg

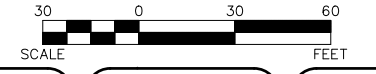


"SM" 15+00.00 MATCHLINE SEE DRAWING NO. R-19B

- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
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  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR LINK WALL
  - 17 REMOVE CHAIN-LINK FENCE
  - 18 REMOVE AND RESET PRIVATE WROUGHT IRON FENCE
  - 19 REMOVE GUARDRAIL
  - 20 REMOVE GUARDRAIL FLARED END TERMINAL
  - 21 REMOVE POST
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  - P PROTECT-IN-PLACE

### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



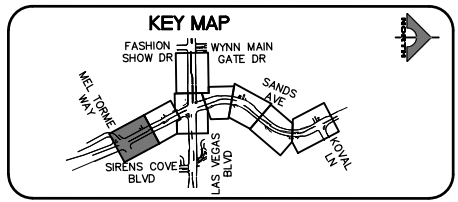
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**SOUTHWEST GAS VALVE NOTE**  
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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CCWRD PIPES NUMBER: 20.793  
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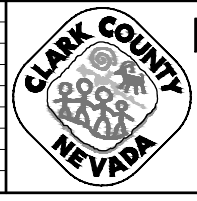


**CALL BEFORE YOU DIG**  
AHEAD HITTING OVERHEAD POWER LINES. IT'S COSTLY. AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  
**1-702-227-2929**

**FAST**  
Call before you UnderGround.  
**1-702-432-5300**  
PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**Call 811**  
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"SM" 10+00.00 TO "SM" 15+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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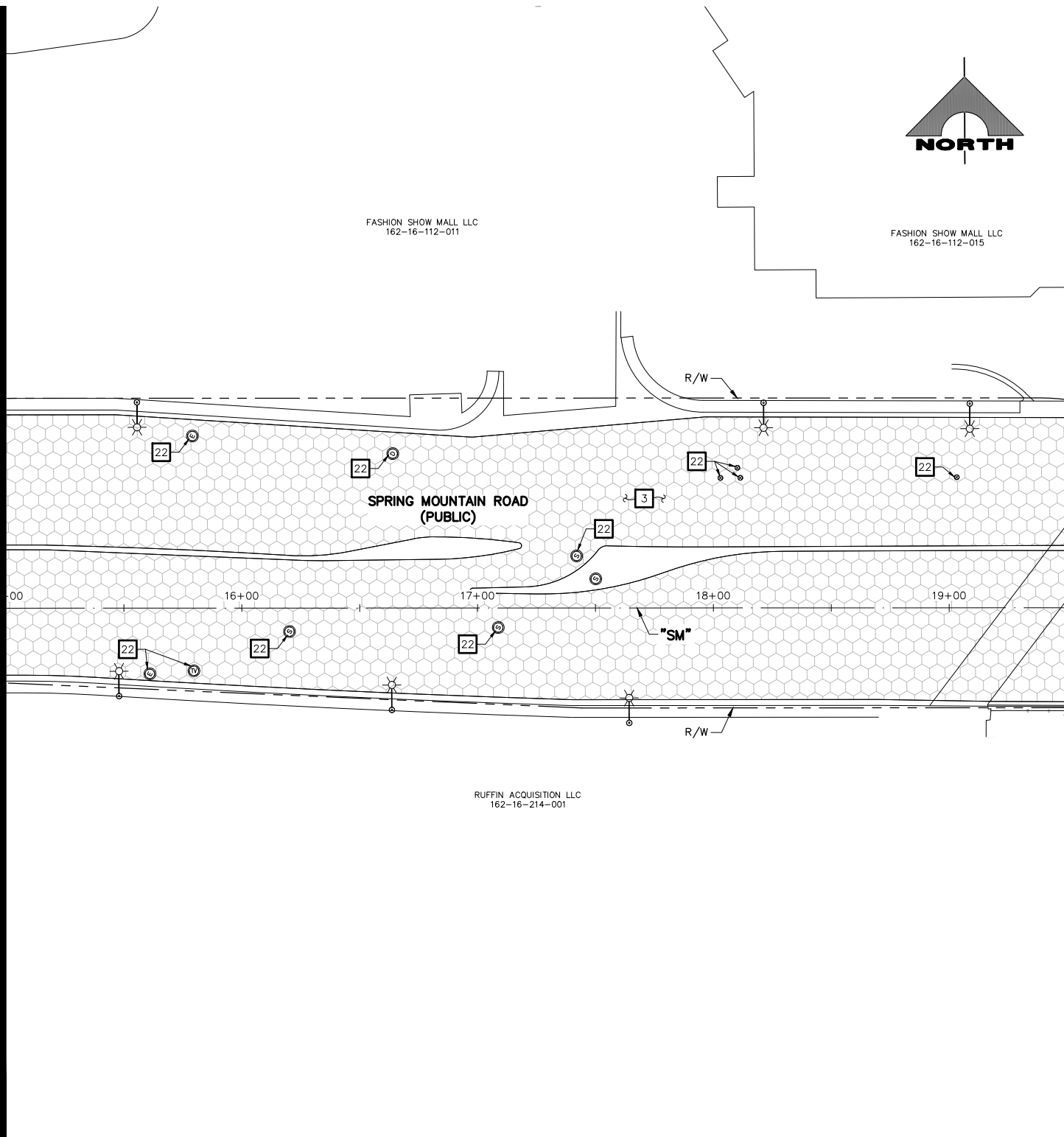
SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. **R-19A**  
SHT. 37A OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

F:\Projects\500\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\05-LVB-R\_Sheets.dwg

"SM" 15+00.00 MATCHLINE SEE DRAWING NO. R-19A

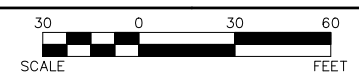
"SM" 19+50.00 MATCHLINE SEE DRAWING NO. R-18



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- 1 SAWCUT AND MATCH EXISTING
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  - P PROTECT-IN-PLACE

### LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

PROTECT IN PLACE AND ADJUST ALL LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

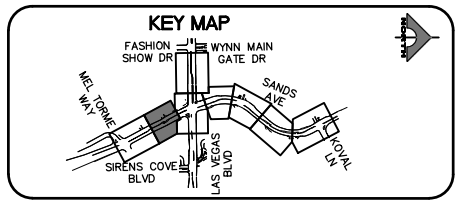
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED

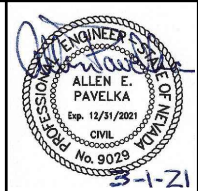


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

### "SM" 15+00.00 TO "SM" 19+50.00

### CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

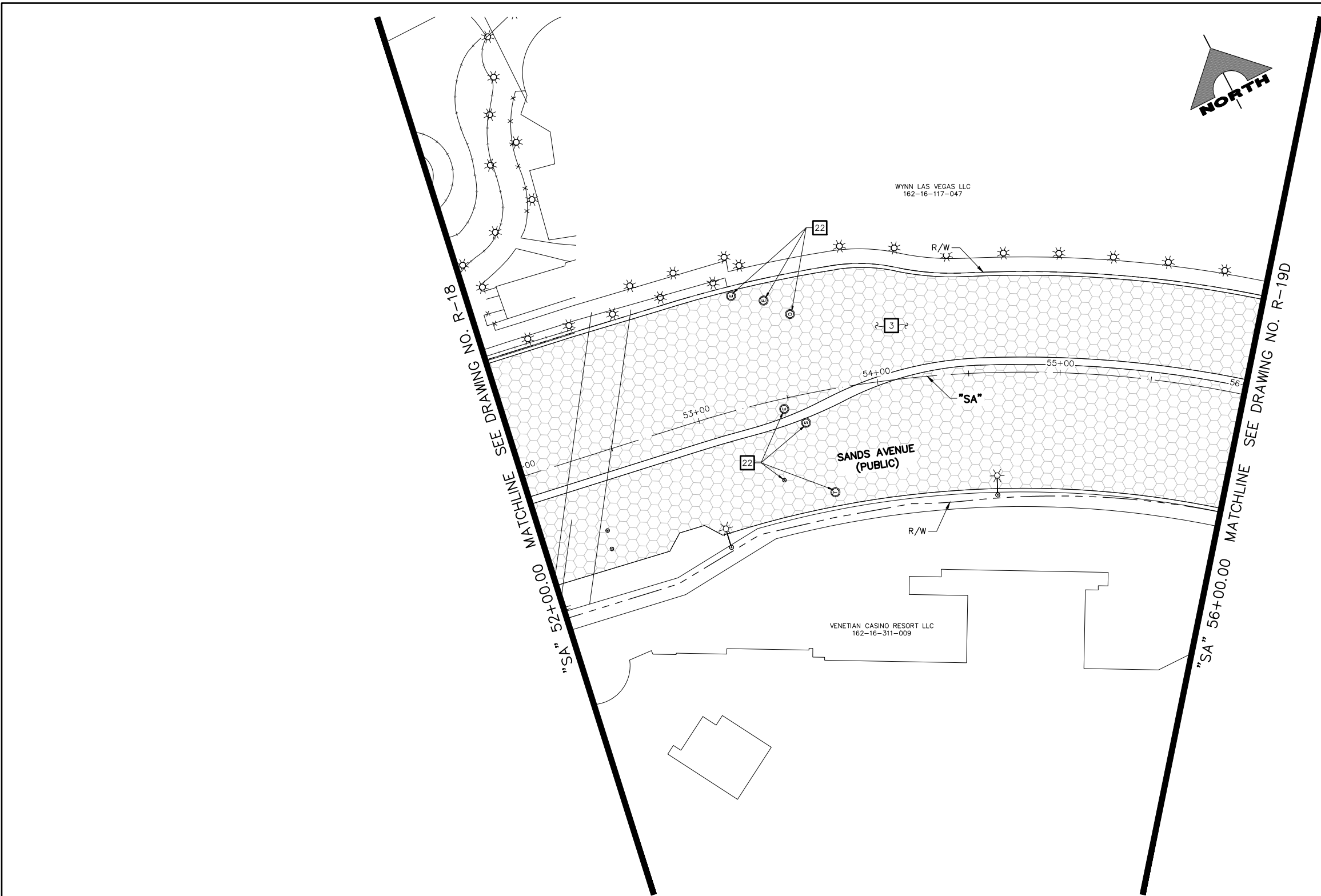
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DRAWING NO. **R-19B**  
SHT. 37B OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



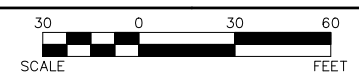
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- REMOVAL NOTES**
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (1-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE PLANTMIX BITUMINOUS SURFACE SIDEWALK
  - 6 REMOVE CONCRETE MEDIAN SURFACE
  - 7 REMOVE CURB
  - 8 REMOVE CURB AND GUTTER
  - 9 REMOVE TACK-ON CONCRETE MEDIAN
  - 10 REMOVE CROSS GUTTER
  - 11 REMOVE DROP INLET
  - 12 REMOVE BOLLARD (UTILITY)
  - 13 REMOVE AND SALVAGE BOLLARD (TEMPORARY)
  - 14 REMOVE BOLLARD (SHALLOW MOUNT)
  - 15 REMOVE PORTABLE PRECAST CONCRETE BARRIER RAIL
  - 16 REMOVE MODULAR BLOCK WALL
  - 17 REMOVE CHAIN-LINK FENCE
  - 18 REMOVE AND RESET PRIVATE WROUGHT IRON FENCE
  - 19 REMOVE GUARDRAIL
  - 20 REMOVE GUARDRAIL FLARED END TERMINAL
  - 21 REMOVE POST
  - 22 ADJUST/RELOCATE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE C-DRAWINGS)
  - 23 REMOVE AND SALVAGE SERVICE PEDESTAL
  - 24 REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION TO 18-INCHES BELOW FINISHED GRADE EXCEPT IN MEDIAN. REMOVE COMPLETELY.
  - 25 REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
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  - 27 REMOVE CONCRETE HEADWALL
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  - 29 REMOVE AND SALVAGE TREE
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  - 32 NOT USED
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  - 36 REMOVE CONCRETE BARRIER RAIL
  - 37 REMOVE PRIVATE SIGN (BY PROPERTY OWNER)
  - P PROTECT-IN-PLACE

**LEGEND**

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION REMOVAL
- COLD MILL (1-INCH DEPTH)



**CAUTION: HIGH PRESSURE GAS!!!**  
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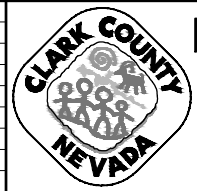
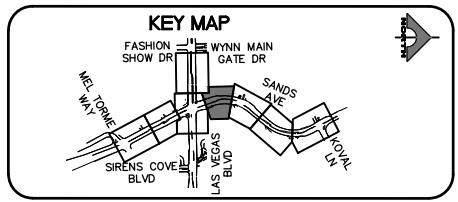
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

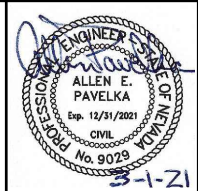
**CLARK COUNTY WATER RECLAMATION DISTRICT**

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**CCWRD PIPES NUMBER: 20.793**

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"SA" 52+00.00 TO "SA" 56+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
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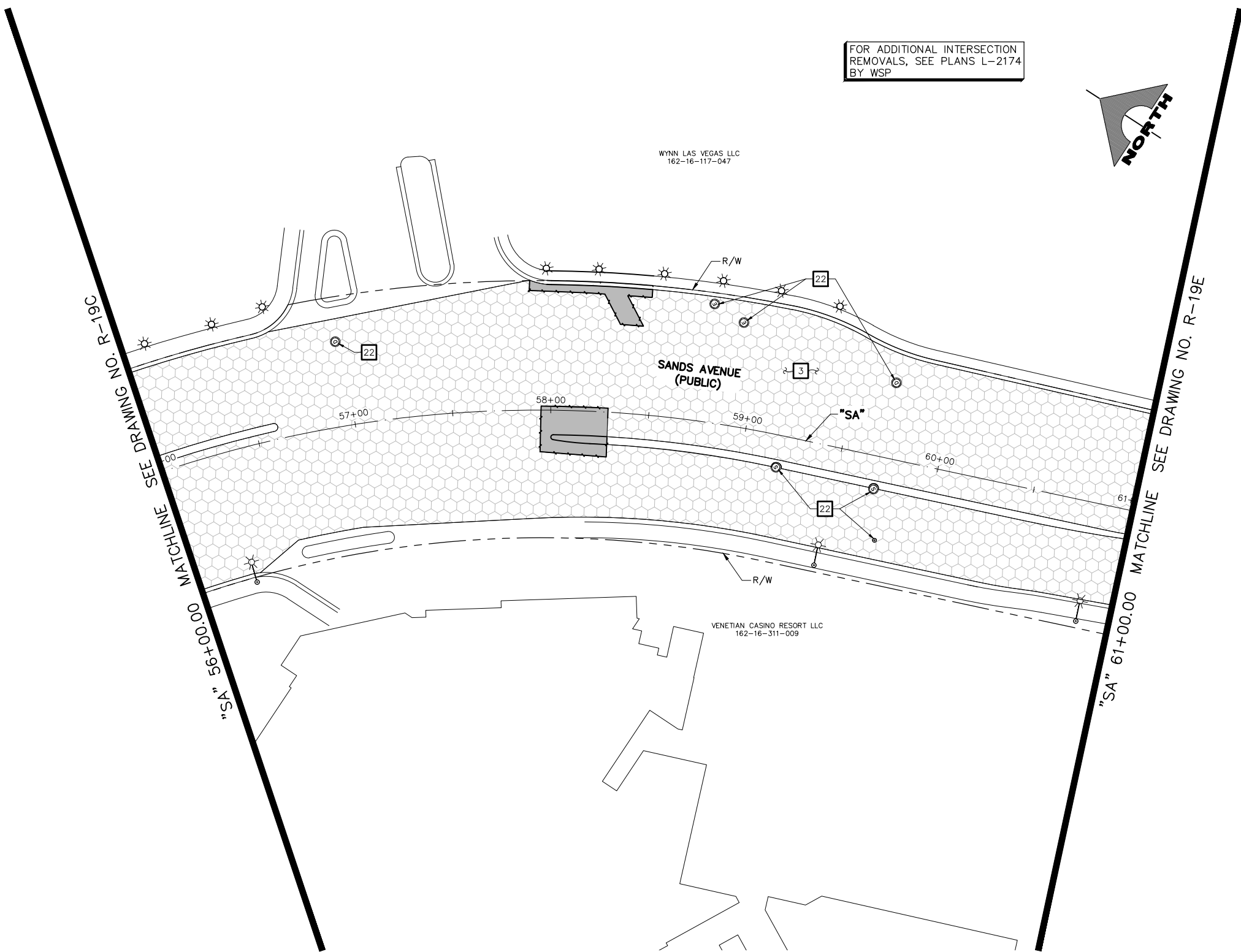
SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-19C
VERT: NONE	SHT. 37C OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



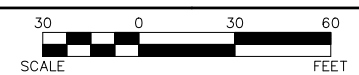
F:\Projects\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\05-LVB-R\_Sheets.dwg



- ### REMOVAL NOTES
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  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
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### LEGEND

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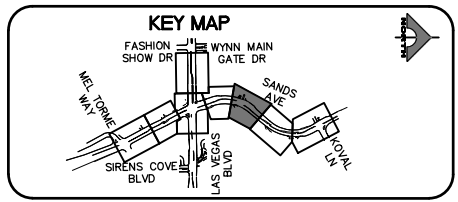
**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

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REV. NO.	DATE	DESCRIPTION	APPROVED

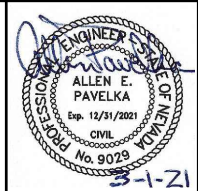


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### REMOVAL PLAN

#### "SA" 56+00.00 TO "SA" 61+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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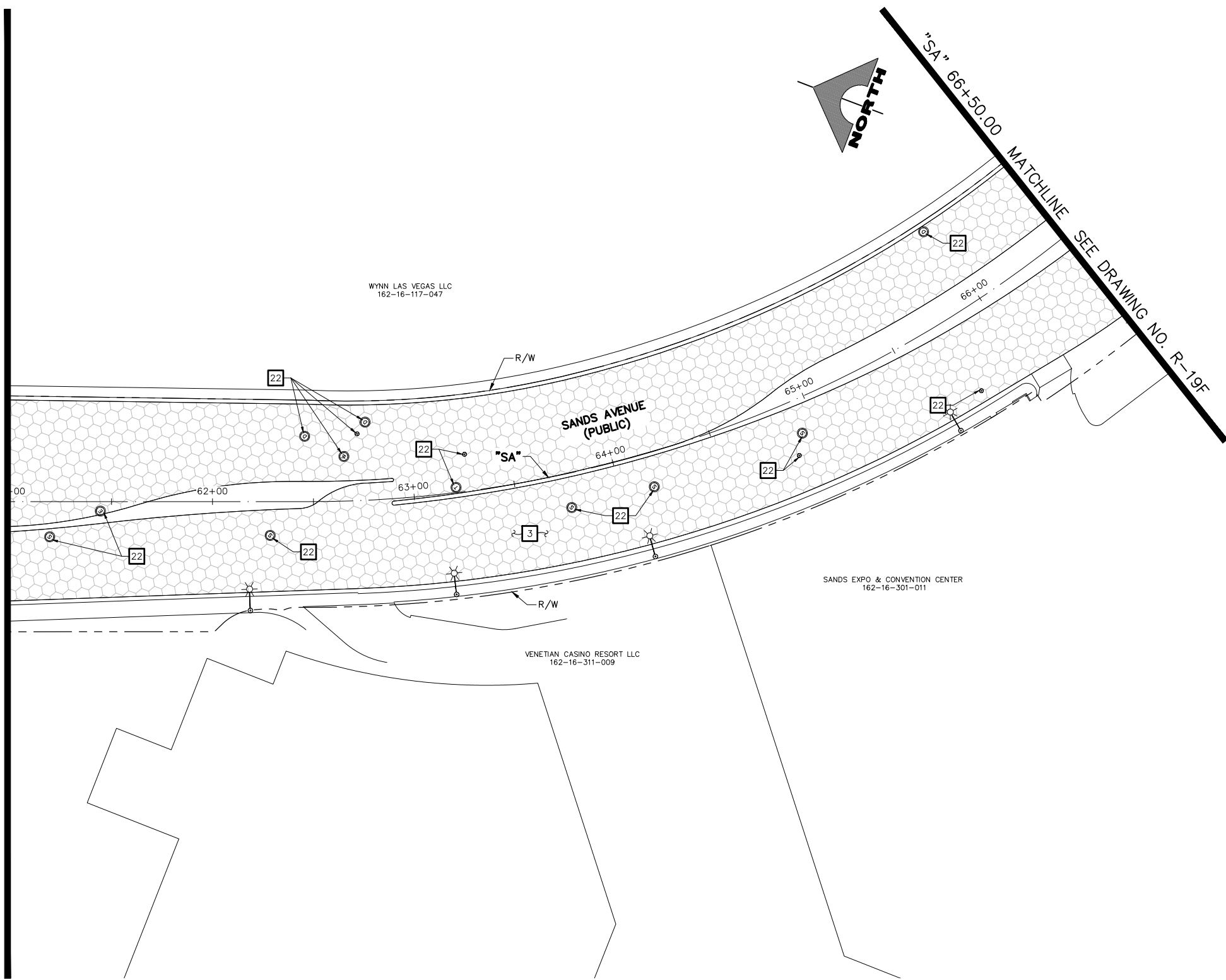
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DRAWING NO. **R-19D**  
SHT. 37D OF 159  
L-2272

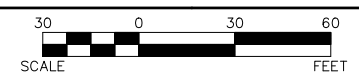
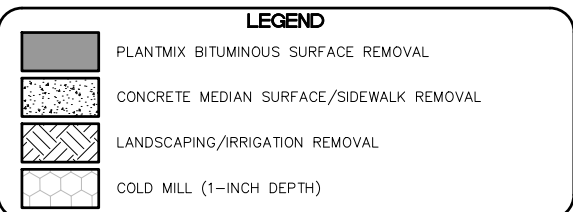
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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"SA" 61+00.00 MATCHLINE SEE DRAWING NO. R-19D



- REMOVAL NOTES**
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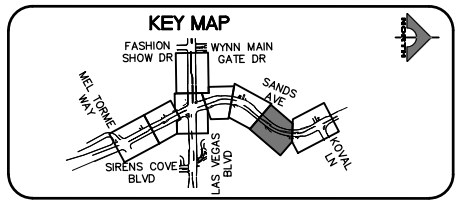
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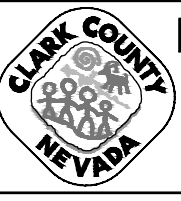
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"SA" 61+00.00 TO "SA" 66+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **R-19E**  
SHT. 37E OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

F:\Projects\500\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\05-LVB-R\_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

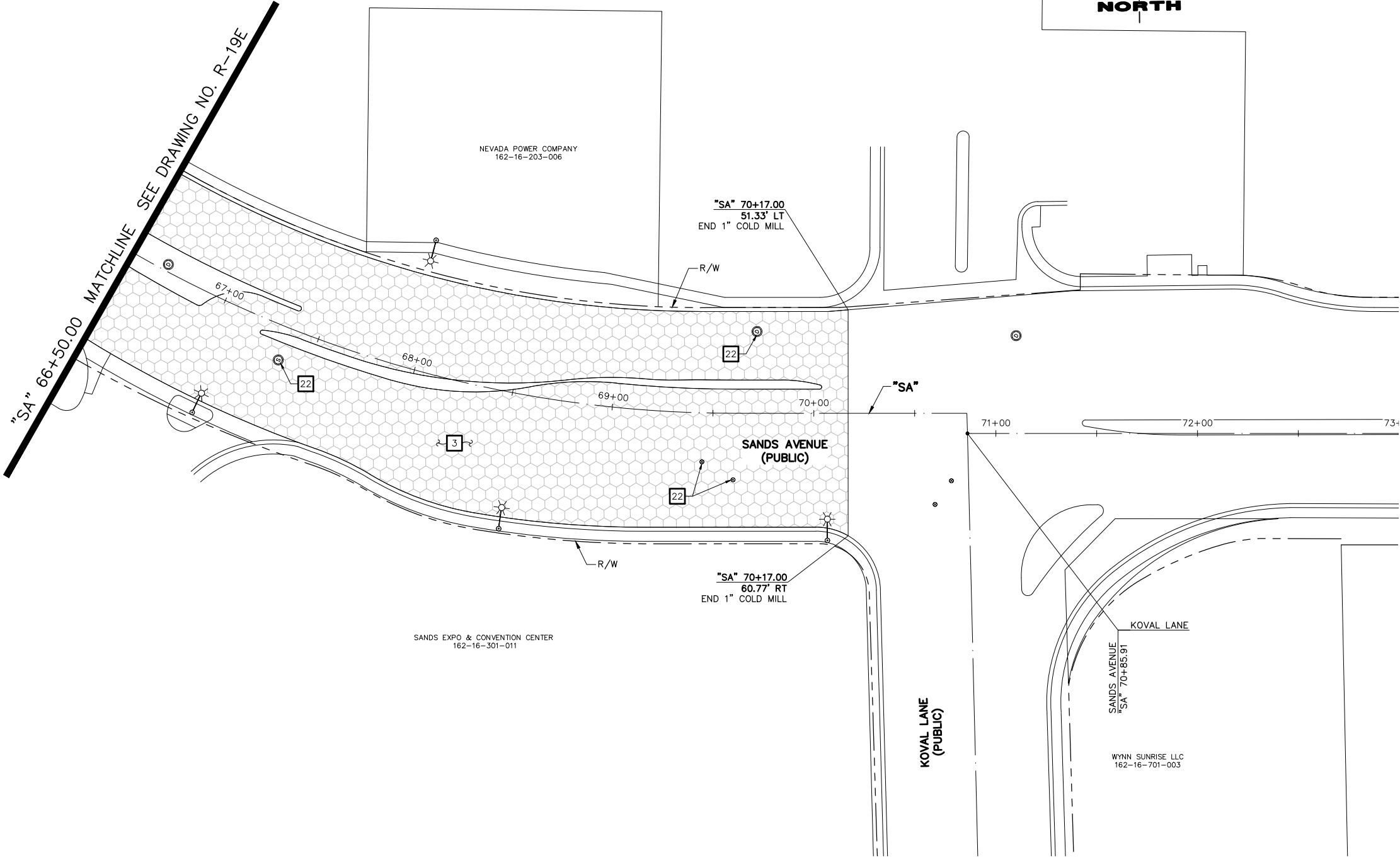
WYNN LAS VEGAS LLC  
162-16-117-047

NEVADA POWER COMPANY  
162-16-203-006

SANDS EXPO & CONVENTION CENTER  
162-16-301-011



"SA" 66+50.00 MATCHLINE SEE DRAWING NO. R-19E



"SA" 70+17.00  
51.33' LT  
END 1" COLD MILL

"SA" 70+17.00  
60.77' RT  
END 1" COLD MILL

SANDS AVENUE  
(PUBLIC)

KOVAL LANE  
(PUBLIC)

KOVAL LANE  
"SA" 70+85.91

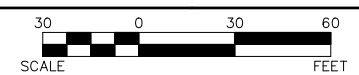
WYNN SUNRISE LLC  
162-16-701-003

**REMOVAL NOTES**

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- 2 REMOVE PLANTMIX BITUMINOUS SURFACE
- 3 COLD MILL (1-INCH DEPTH)
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**LEGEND**

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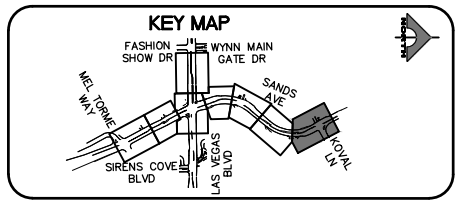
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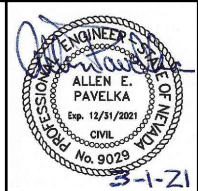
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**REMOVAL PLAN**  
**"SA" 66+50.00 TO "SA" 73+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV**  
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SCALE: \_\_\_\_\_  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK: \_\_\_\_\_

DRAWING NO. **R-19F**  
SHT. 37F OF 159  
L-2272

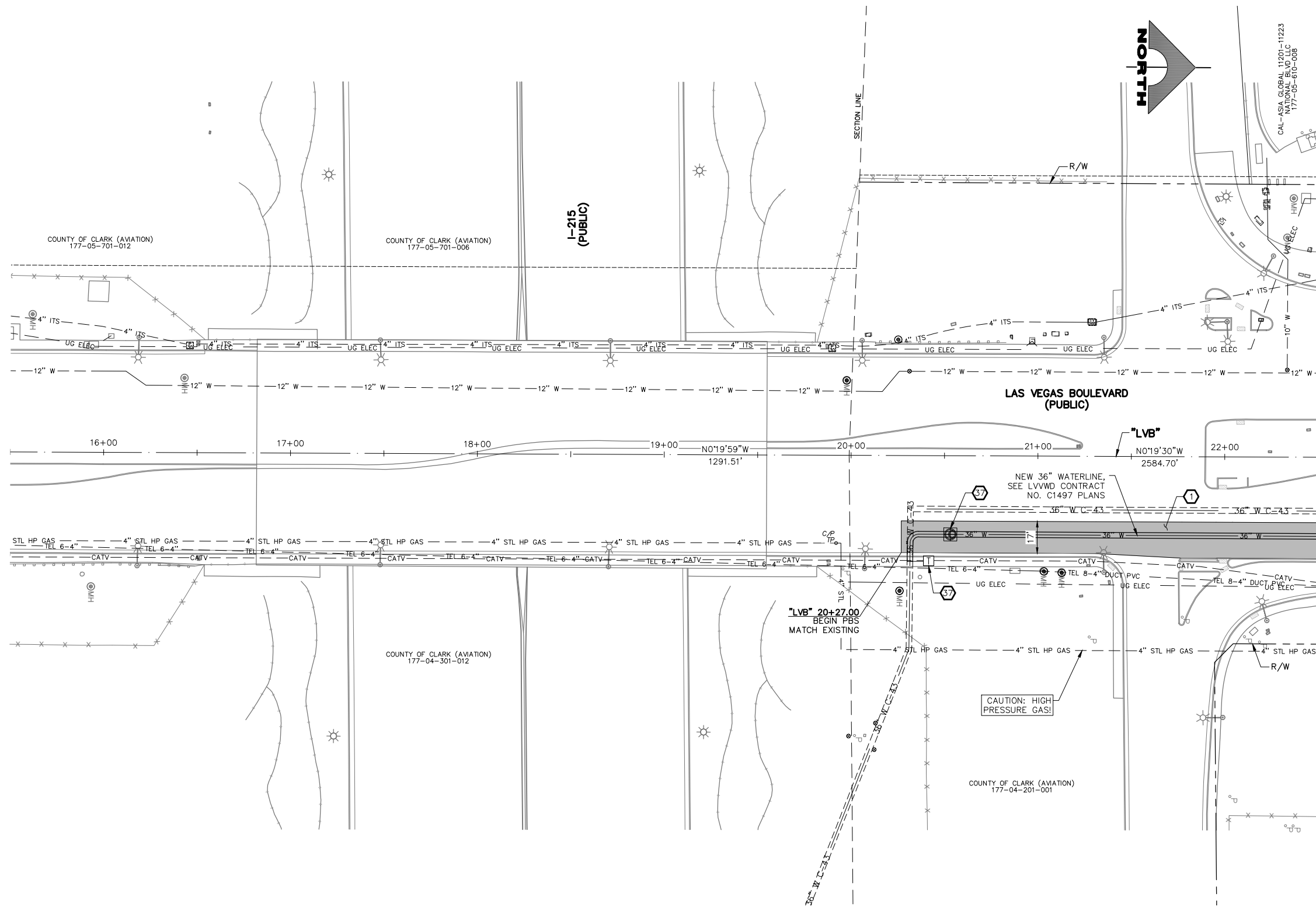
REV. NO.	DATE	DESCRIPTION	APPROVED

02-26-21 09:53:40

BID NO.: 605718-20



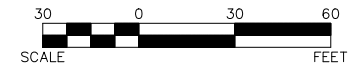
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- CONSTRUCTION NOTES**
- 1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 2. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
- NOTES**
- 1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - 2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - 3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - 4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - 5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - 6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

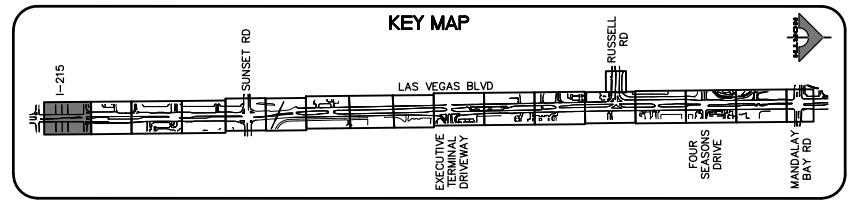
- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



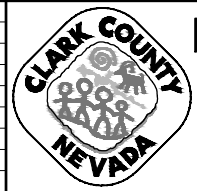
**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

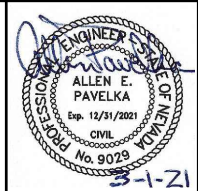
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 SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"LVB" 15+50.00 TO "LVB" 22+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



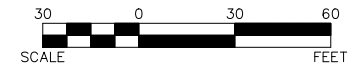
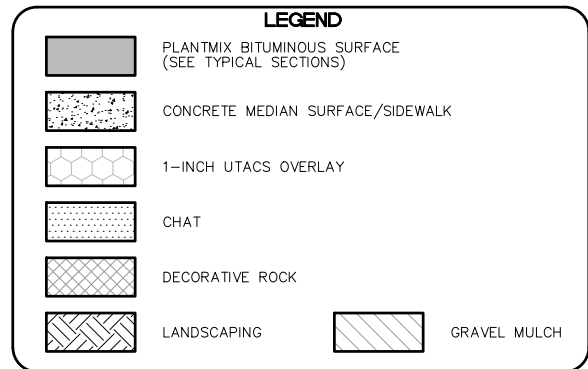
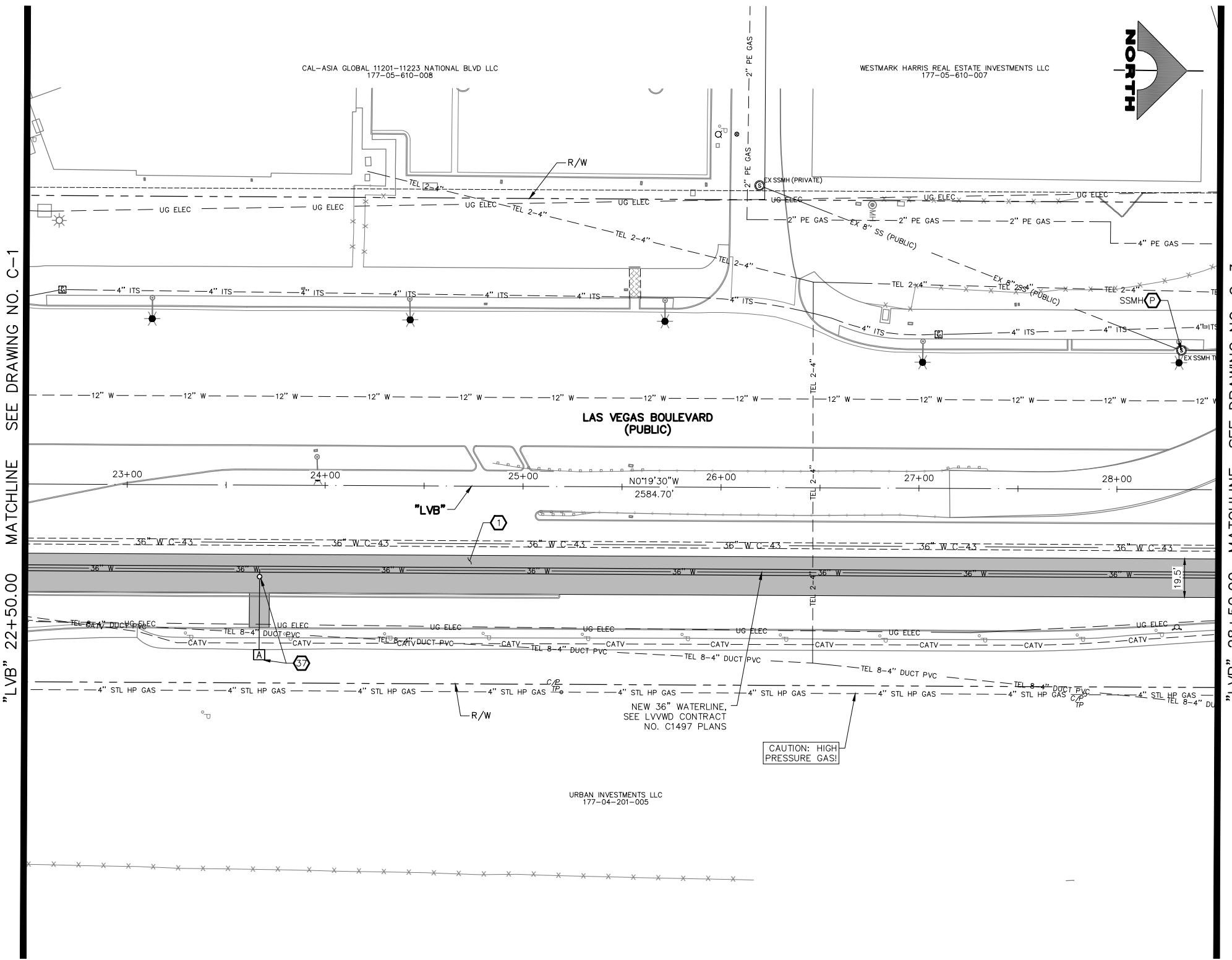
PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-1
VERT: NONE	SHT. 38 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

- CONSTRUCTION NOTES**
- 1 CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 2 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - 3 PROTECT-IN-PLACE
- NOTES**
- 1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - 2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - 3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - 4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - 5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - 6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

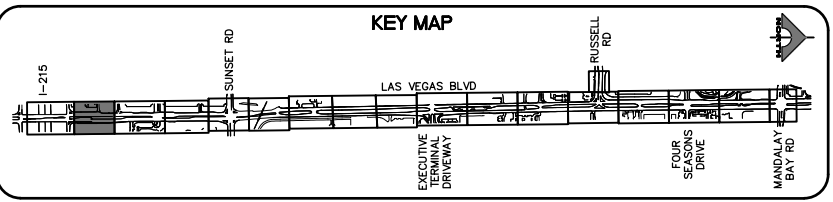


**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

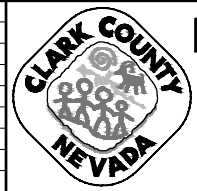
**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

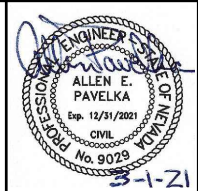
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED

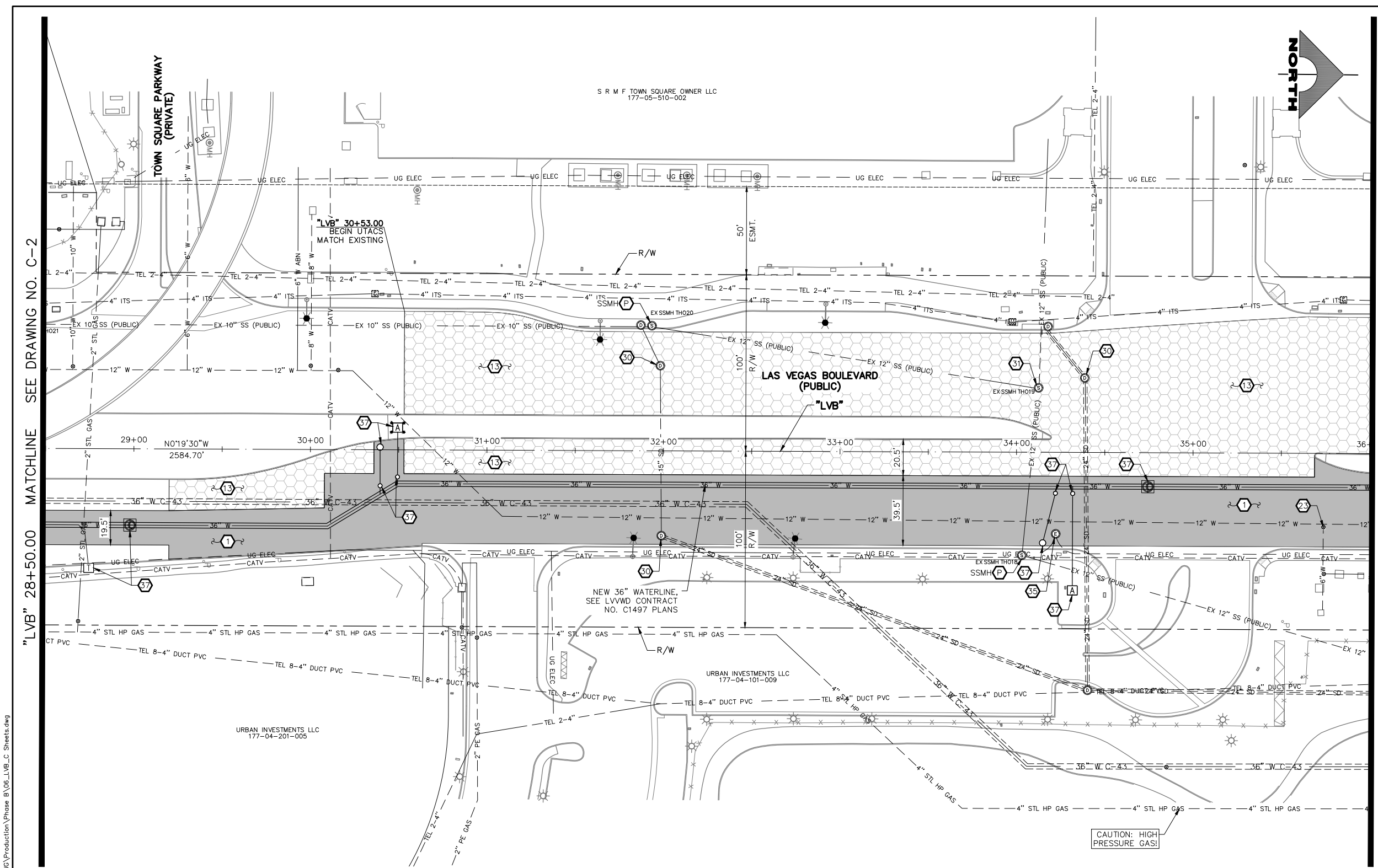


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"LVB" 22+50.00 TO "LVB" 28+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

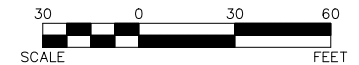
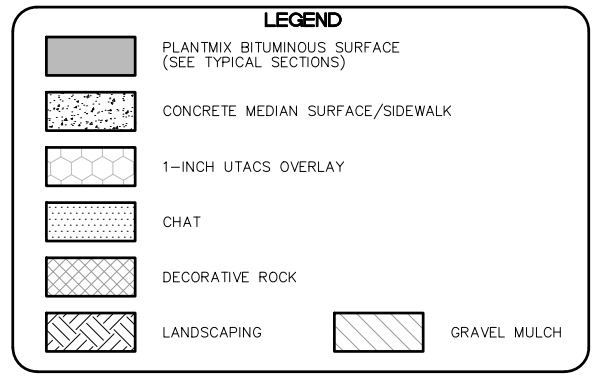


PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-2
VERT: NONE	SHT. 39 OF 159
FIELD BOOK	L-2272



- CONSTRUCTION NOTES**
- 1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 15. CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 23. ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 35. ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 37. ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 38. ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 39. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - P. PROTECT-IN-PLACE
- NOTES**
- 1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - 2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - 3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - 4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - 5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - 6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



MATCHLINE SEE DRAWING NO. C-2

"LVB" 28+50.00

MATCHLINE SEE DRAWING NO. C-4

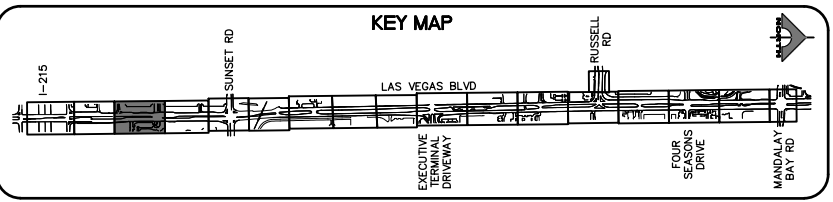
"LVB" 36+00.00

**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 28+50.00 TO "LVB" 36+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

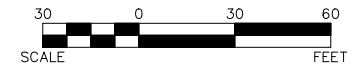
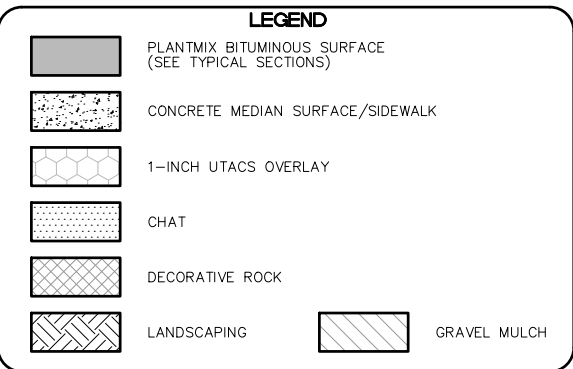
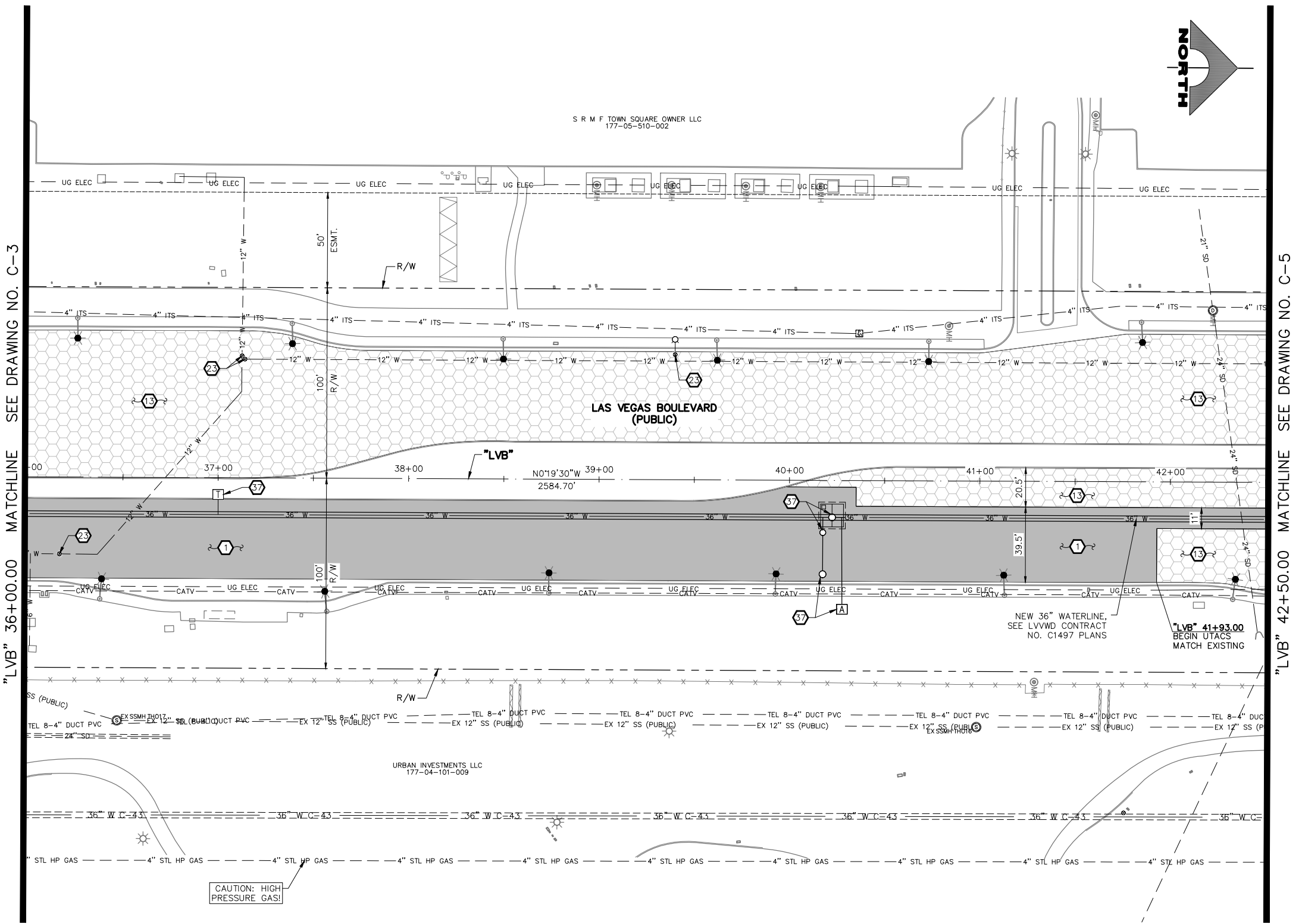
PROJECT No: 500-897-LV	DRAWN BY: TAA	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: AEP	HORIZ: AS SHOWN	C-3
APPROVED BY: _____		VERT: NONE	SHT. 40 OF 159
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com		FIELD BOOK	L-2272

02-26-21 09:23:52 F:\Projects\500-897-LV\DWG\Production\Phase B\06\_LVB\_C Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



- CONSTRUCTION NOTES**
- 1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 2. CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 3. ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 4. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
- NOTES**
- 1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - 2. SEE DC-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - 3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - 4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - 5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - 6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

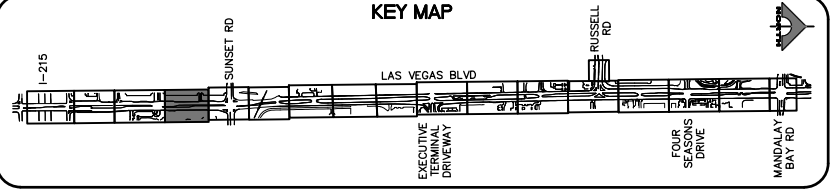


**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

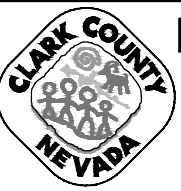
**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

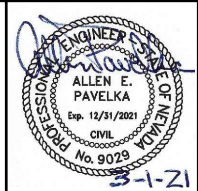
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"LVB" 36+00.00 TO "LVB" 42+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



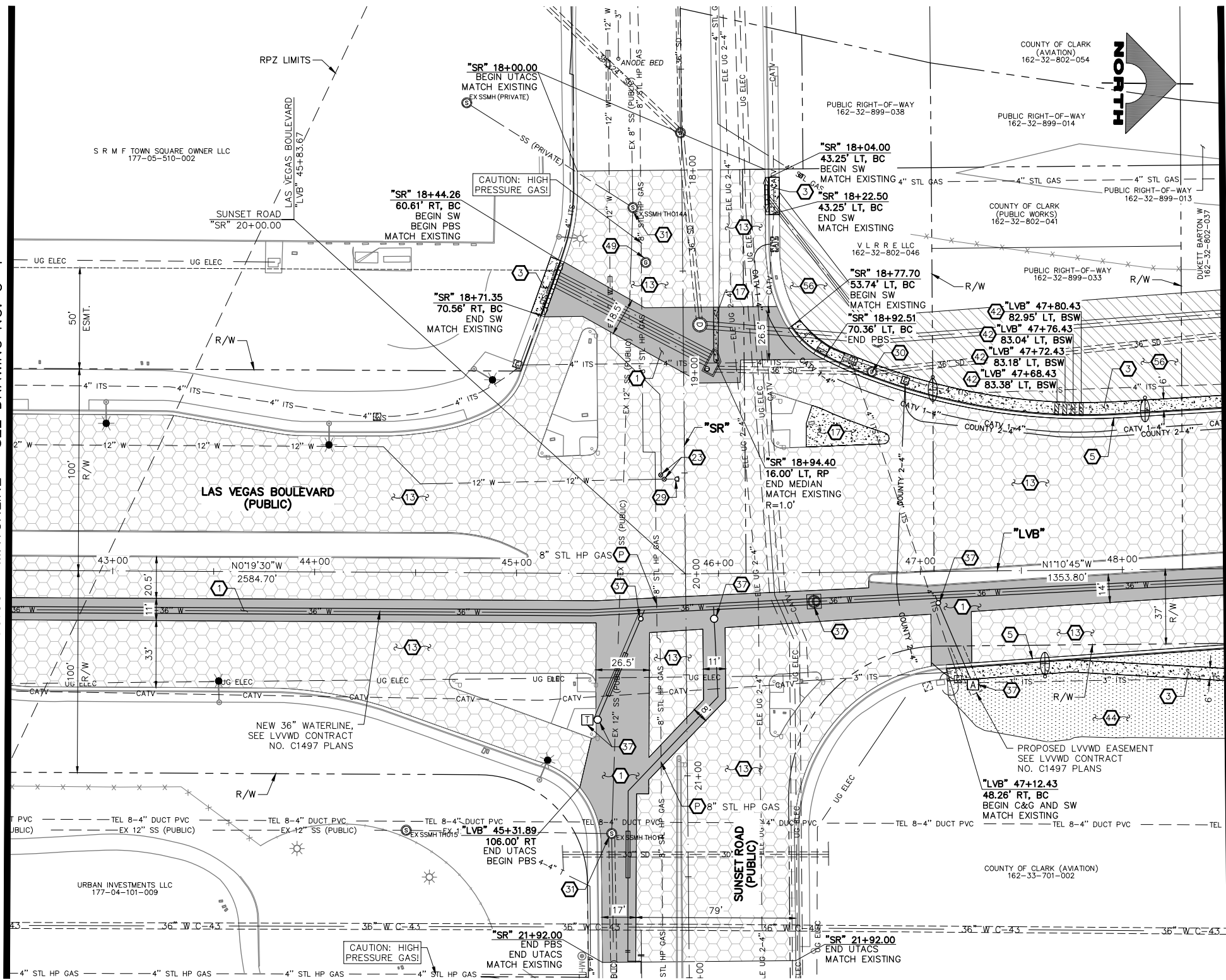
PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-4
VERT: NONE	SHT. 41 OF 159
FIELD BOOK	L-2272

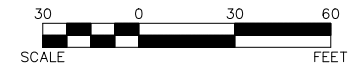
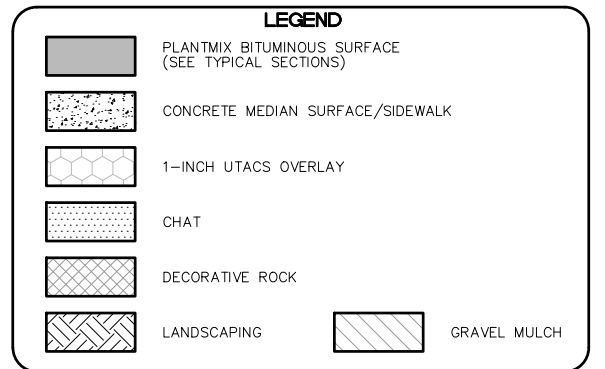
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"LVB" 42+50.00 MATCHLINE SEE DRAWING NO. C-4

"LVB" 48+50.00 MATCHLINE SEE DRAWING NO. C-6



- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - CONSTRUCT TACK-ON MEDIAN WITH DOWELS (USDCCA STD. DWG. NO. 220.1.S1)
  - ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
  - INSTALL CHAT (1/4-INCH MINUS) (3-INCH DEPTH)
  - ADJUST GAS MANHOLE TO GRADE (BY SWG)
  - INSTALL GRAVEL MULCH (1-INCH ROCK, 2-INCH DEPTH)
  - PROTECT-IN-PLACE
- ### NOTES
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

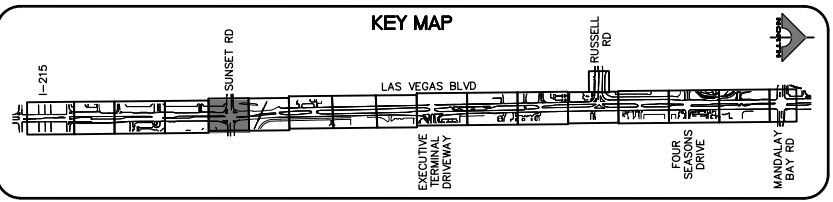


**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

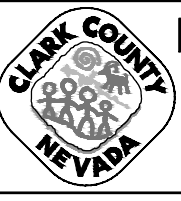
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED

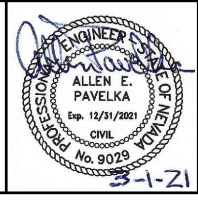


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### CONSTRUCTION PLAN

#### "LVB" 42+50.00 TO "LVB" 48+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

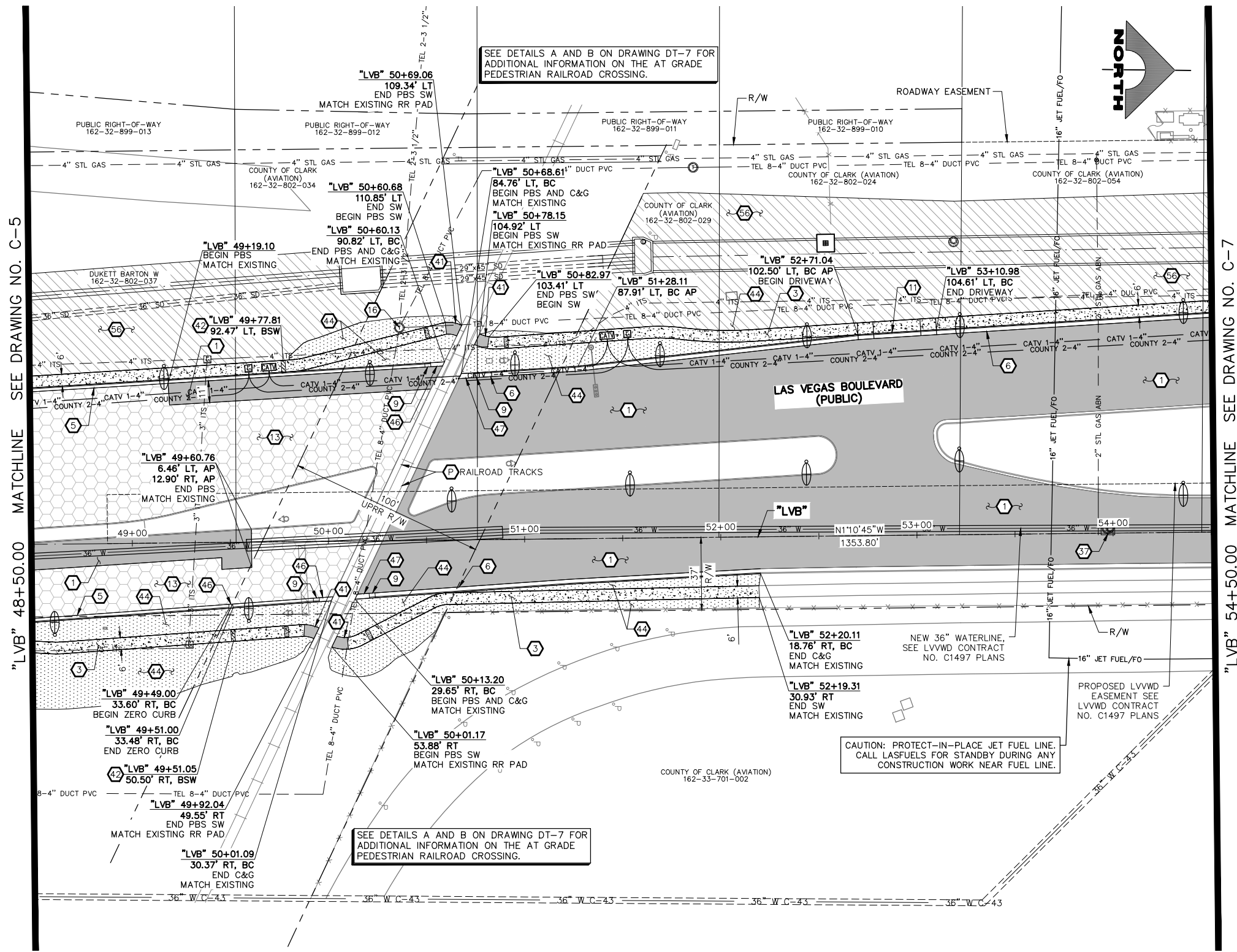
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-5
VERT: NONE	SHT. 42 OF 159
FIELD BOOK	L-2272

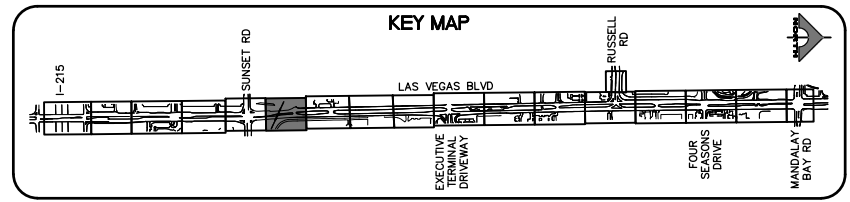
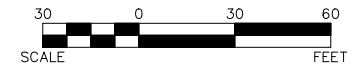
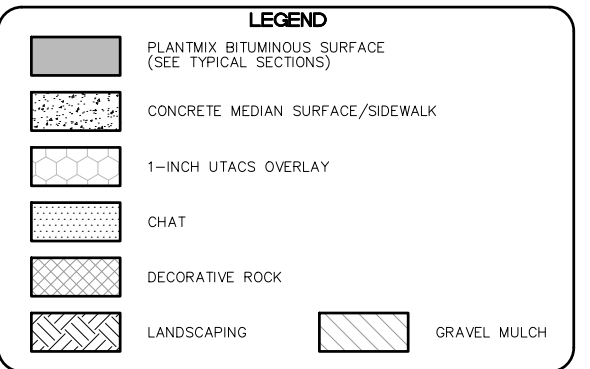
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



02-26-21 09:24:45 F:\Projects\500-897-LV\DWG\Production\Phase B\06\_LVB\_C Sheets.dwg



- CONSTRUCTION NOTES**
1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  2. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  3. CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  4. CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  5. CONSTRUCT CURB TRANSITION (SEE DETAIL C, DWG. DT-5)
  6. CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 227.S1)
  7. CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  8. ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  9. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  10. CONSTRUCT 4-INCH PLANTMIX BITUMINOUS SURFACE OVER 6-INCH TYPE II AGGREGATE BASE
  11. CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
  12. INSTALL CHAT (1/4-INCH MINUS) (3-INCH DEPTH)
  13. CONSTRUCT 24-INCH ZERO HEIGHT CURB
  14. CONSTRUCT 30-INCH ZERO HEIGHT CURB
  15. INSTALL GRAVEL MULCH (1-INCH ROCK, 2-INCH DEPTH)
  16. PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST Call before you UnderGround.**

1-702-432-5300

**Call before you Dig**

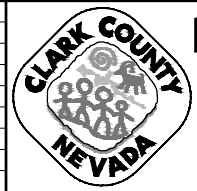
Call 811

1-800-227-2600

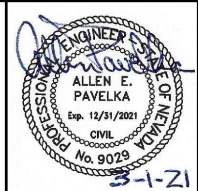
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 48+50.00 TO "LVB" 54+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY:

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

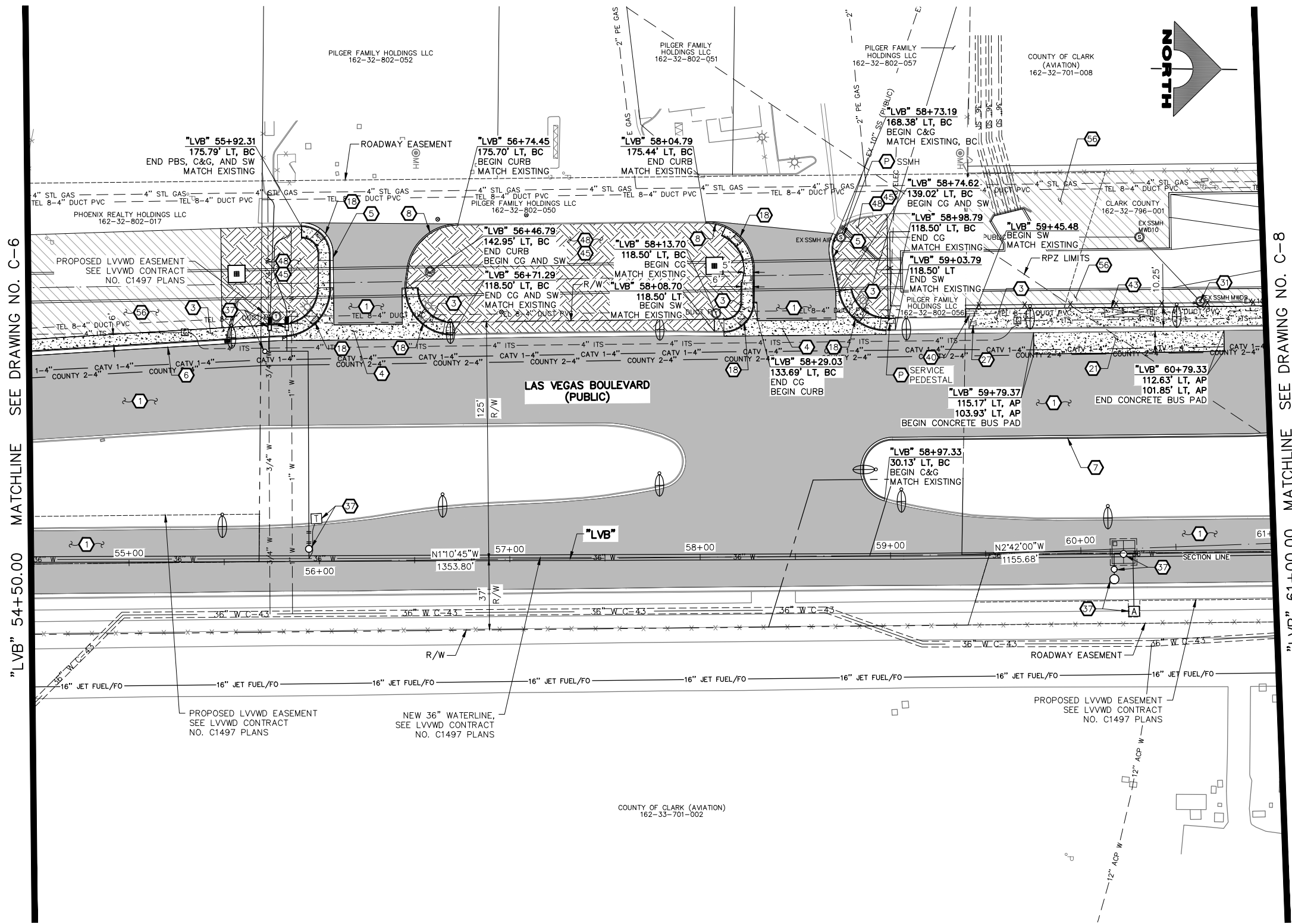
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DRAWING NO. **C-6**  
SHT. 43 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



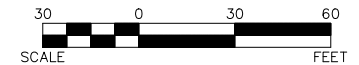
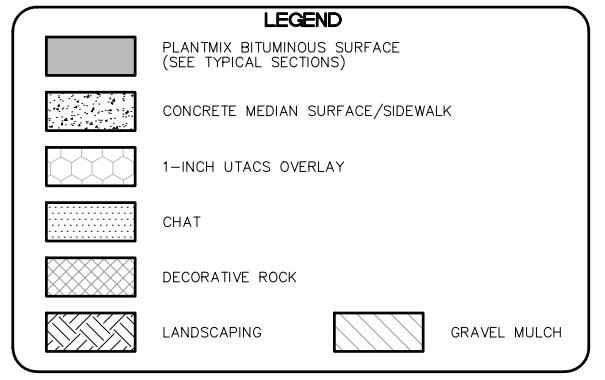
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"LVB" 54+50.00 MATCHLINE SEE DRAWING NO. C-6

"LVB" 61+00.00 MATCHLINE SEE DRAWING NO. C-8

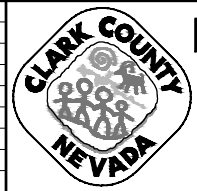
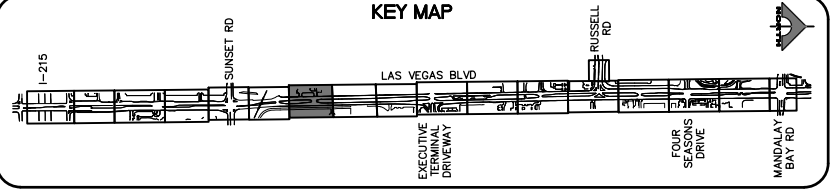
- ### CONSTRUCTION NOTES
- 1 CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 2 CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - 3 CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
  - 4 CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - 5 CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - 6 CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - 7 CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
  - 8 CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF WALK, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - 9 CONSTRUCT 10-INCH CONCRETE PAVEMENT OVER 8-INCH TYPE II AGGREGATE BASE (BUS PAD) (NDOT STD. DETAIL NO. CP-1)
  - 10 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - 11 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 12 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - 13 ADJUST TELEPHONE VAULT TO GRADE (BY CENTURYLINK)
  - 14 RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - 15 INSTALL DECORATIVE ROCK (6-INCH DEPTH)
  - 16 MODIFY LANDSCAPING/IRRIGATION
  - 17 INSTALL GRAVEL MULCH (1-INCH ROCK, 2-INCH DEPTH)
  - 18 PROTECT-IN-PLACE
- ### NOTES
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

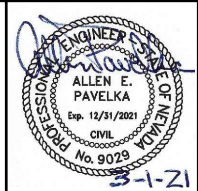


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### CONSTRUCTION PLAN

#### "LVB" 54+50.00 TO "LVB" 61+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

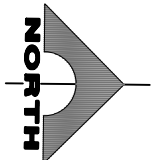
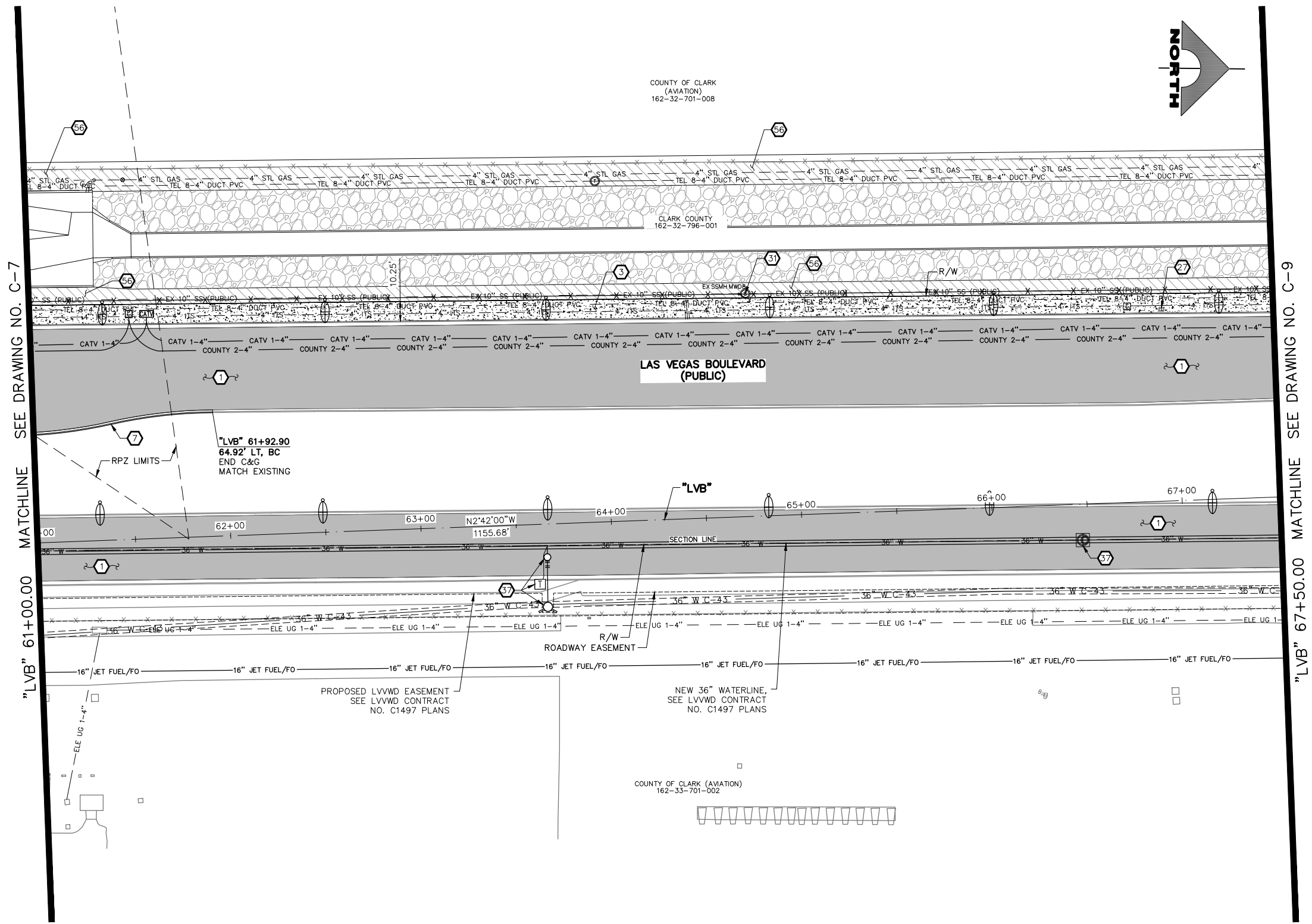
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-7
VERT: NONE	SHT. 44 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

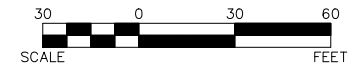
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02-26-21 09:25:21



- CONSTRUCTION NOTES**
- ① CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - ② CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - ③ CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - ④ ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - ⑤ ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - ⑥ SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - ⑦ INSTALL GRAVEL MULCH (1-INCH ROCK, 2-INCH DEPTH)
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

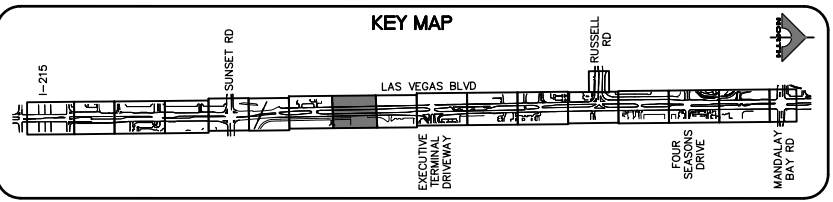
- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



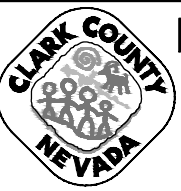
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

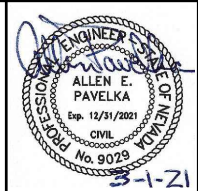
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 61+00.00 TO "LVB" 67+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

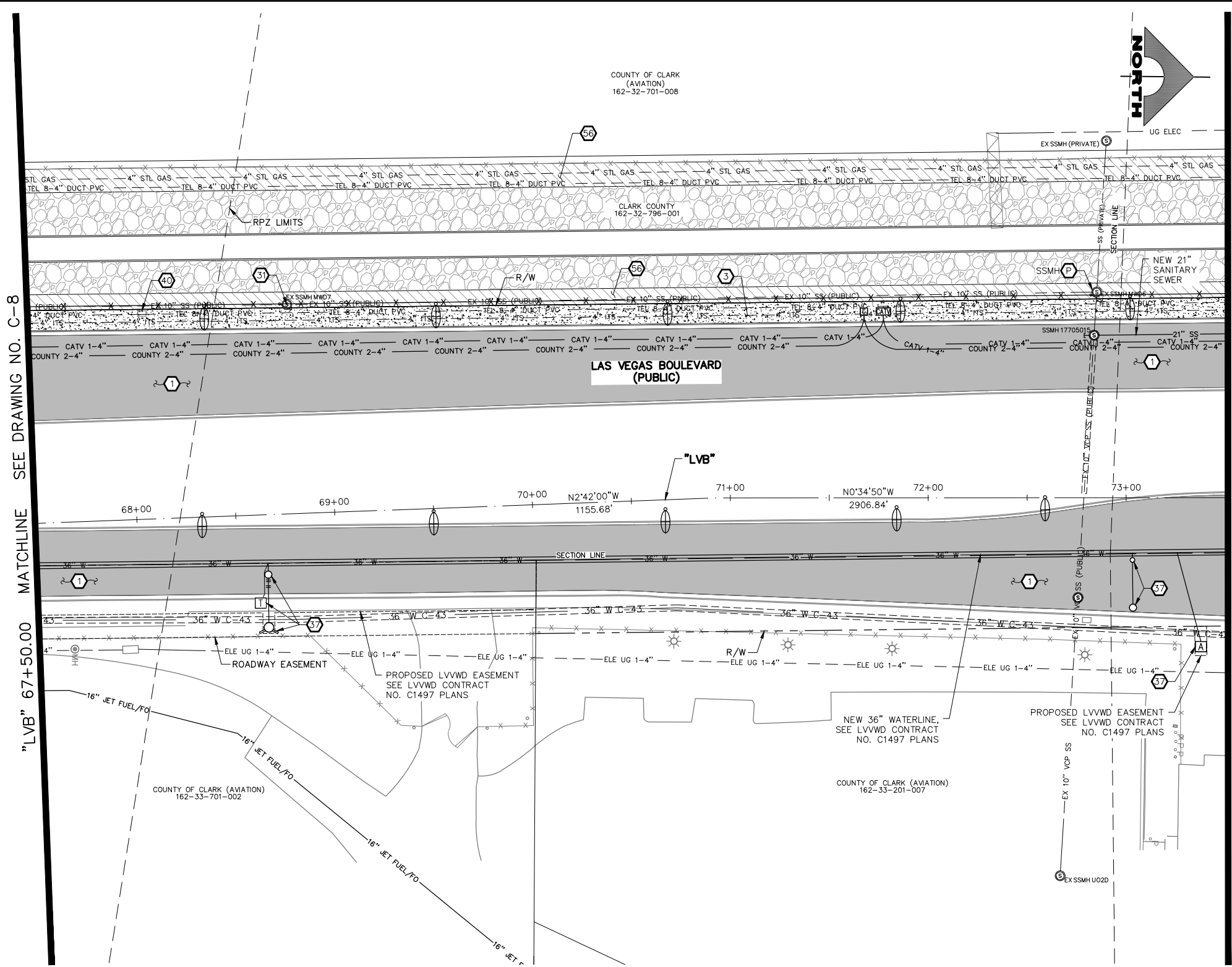
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DRAWING NO. C-8  
SHT. 45 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)  
BID NO.: 605718-20

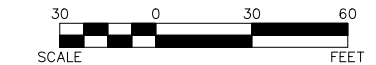
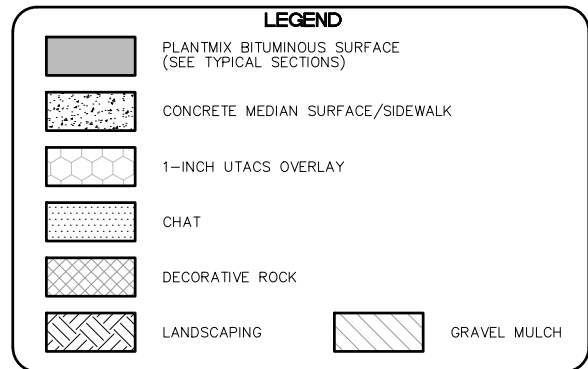


"LVB" 67+50.00 MATCHLINE SEE DRAWING NO. C-8

"LVB" 73+50.00 MATCHLINE SEE DRAWING NO. C-10



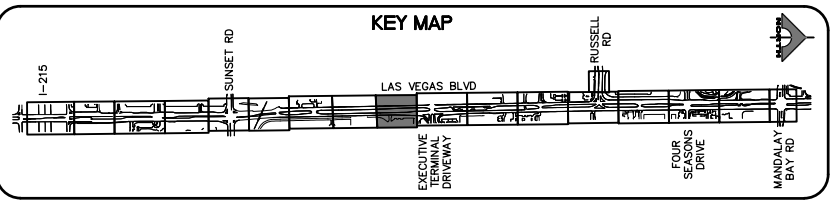
- CONSTRUCTION NOTES**
1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  2. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  3. ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  4. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  5. ADJUST TELEPHONE VAULT TO GRADE (BY CENTURYLINK)
  6. INSTALL GRAVEL MULCH (1-INCH ROCK, 2-INCH DEPTH)
  7. PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



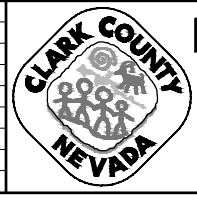
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

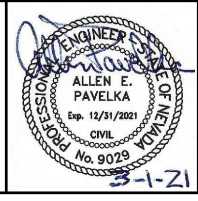
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 67+50.00 TO "LVB" 73+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



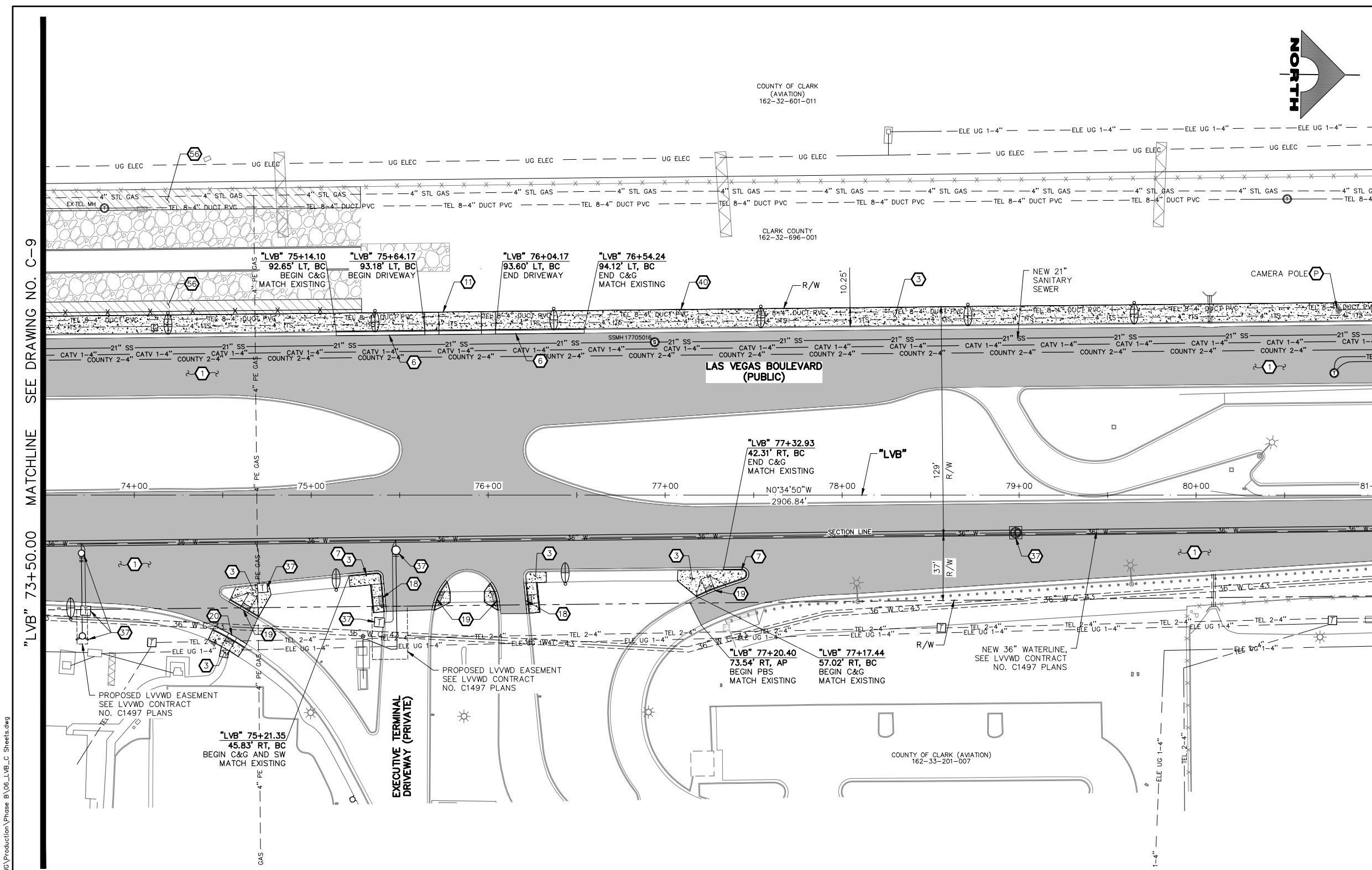
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. C-9  
SHT. 46 OF 159  
L-2272

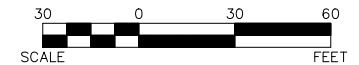
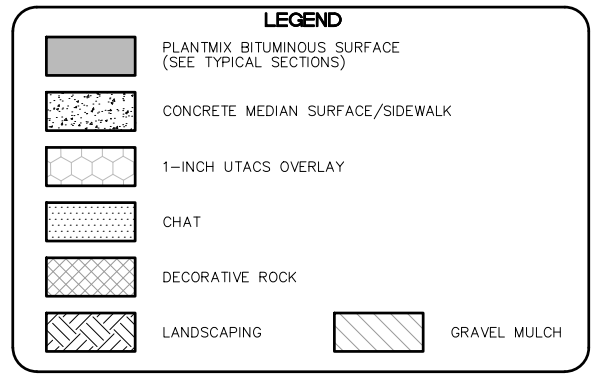
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 227.S1)
  - CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF WALK, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT CASE III SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF WALK, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - ADJUST TELEPHONE VAULT TO GRADE (BY CENTURYLINK)
  - INSTALL GRAVEL MULCH (1-INCH ROCK, 2-INCH DEPTH)
  - PROTECT-IN-PLACE
- ### NOTES
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



"LVB" 73+50.00 MATCHLINE SEE DRAWING NO. C-9

"LVB" 81+00.00 MATCHLINE SEE DRAWING NO. C-11

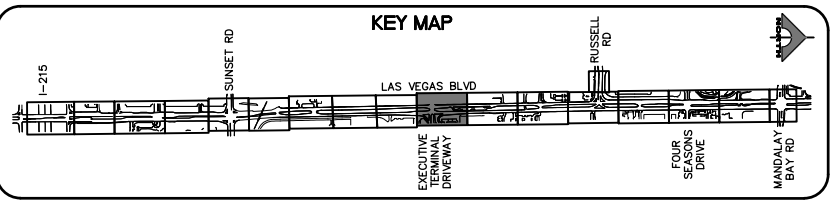
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

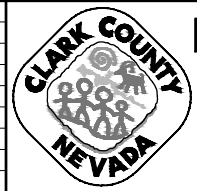
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED

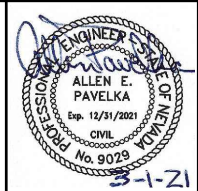


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### CONSTRUCTION PLAN

#### "LVB" 73+50.00 TO "LVB" 81+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



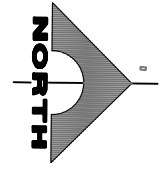
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. C-10  
SHT. 47 OF 159  
L-2272

BID NO.: 605718-20

COUNTY OF CLARK  
(AVIATION)  
162-32-601-011

COUNTY OF CLARK  
(AVIATION)  
162-32-601-011

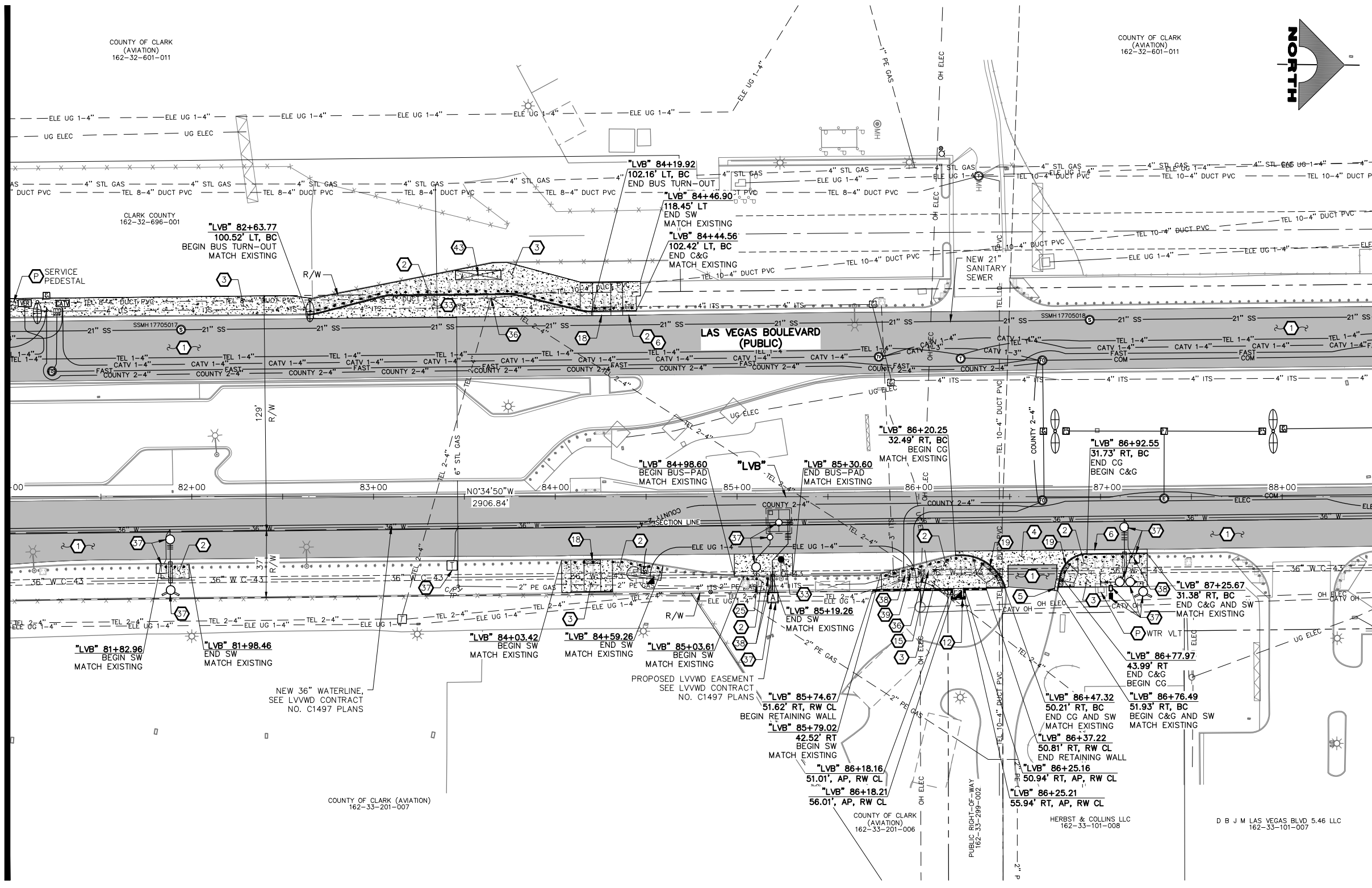


SEE DRAWING NO. C-10  
MATCHLINE

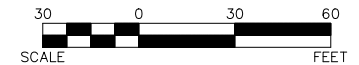
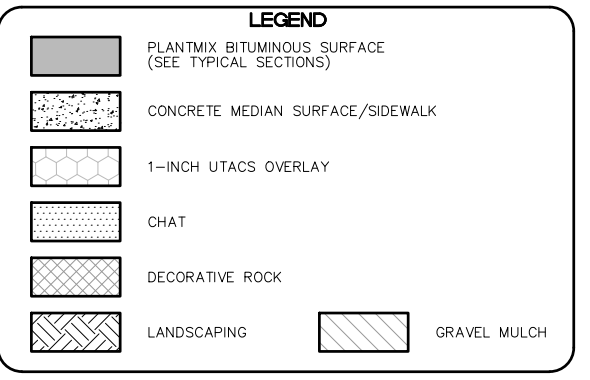
SEE DRAWING NO. C-12  
MATCHLINE

"LVB" 81+00.00

"LVB" 88+50.00



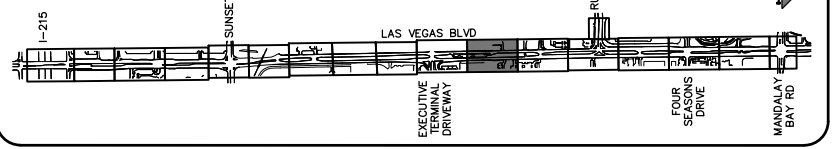
- CONSTRUCTION NOTES**
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF #1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - CONSTRUCT CONCRETE RETAINING WALL (SEE DETAILS A AND B, DWG. S-1)
  - RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF WALK, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - RELOCATE MCI VAULT (BY VERIZON BUSINESS)
  - CONSTRUCT CONCRETE BUS TURNOUT (USDCCA STD. DWG. NO. 234.1)
  - RELOCATE TELEPHONE VAULT (BY CENTURYLINK)
  - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - RELOCATE ELECTRIC PULLBOX (BY EXTENET)
  - RELOCATE FIBER OPTIC PULLBOX (BY EXTENET)
  - RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - PROTECT-IN-PLACE
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
 CCWRD PIPES NUMBER: **20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

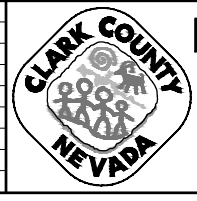
**KEY MAP**



**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
 "LVB" 81+00.00 TO "LVB" 88+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

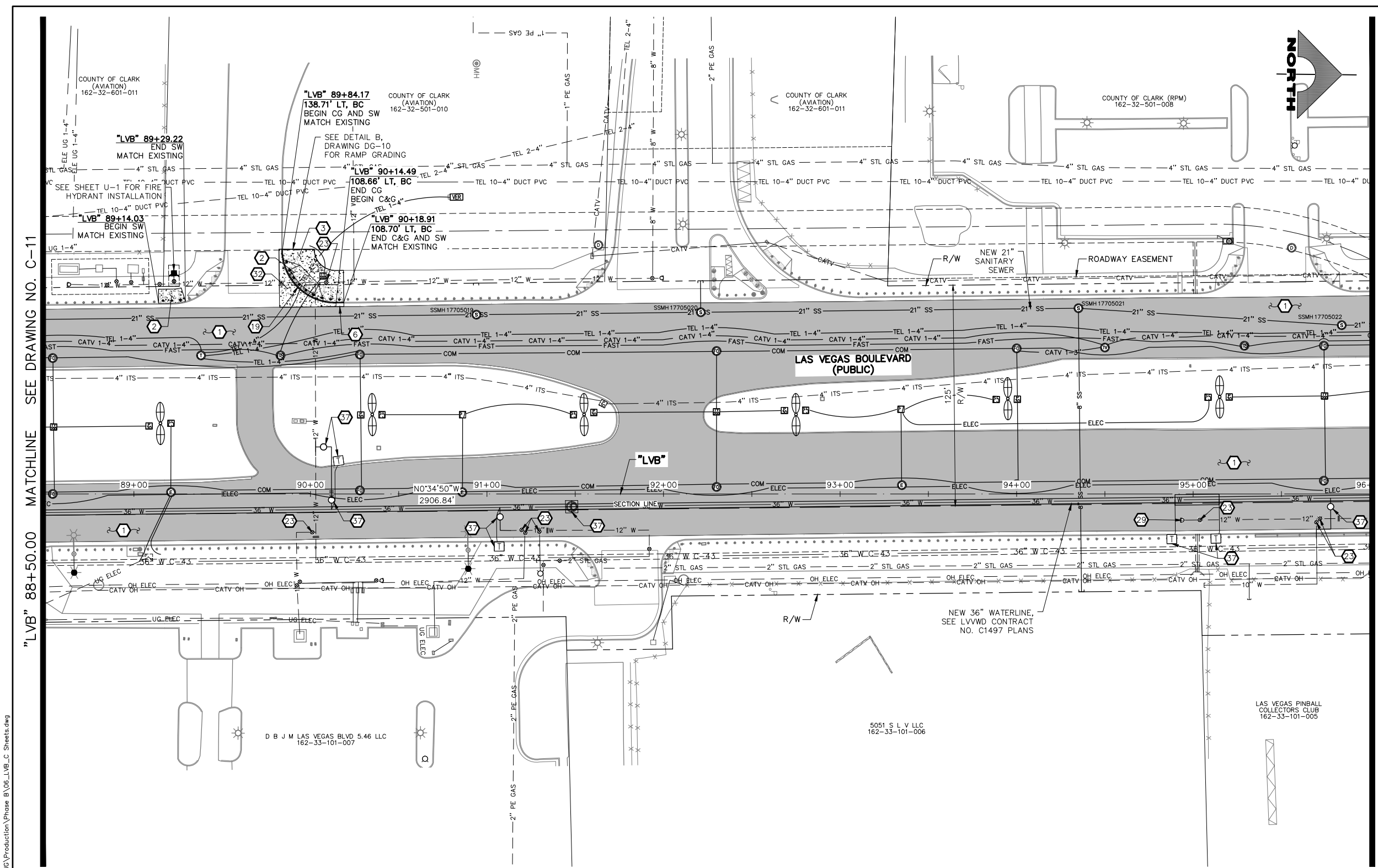


PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>C-11</b>
VERT: NONE	SHT. 48 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

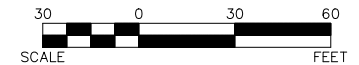




- CONSTRUCTION NOTES**
1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  2. CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF # 1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  3. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  6. CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  19. CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  23. ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  29. ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  32. CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
  37. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWINGS FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



"LVB" 88+50.00 MATCHLINE SEE DRAWING NO. C-11

"LVB" 96+00.00 MATCHLINE SEE DRAWING NO. C-13

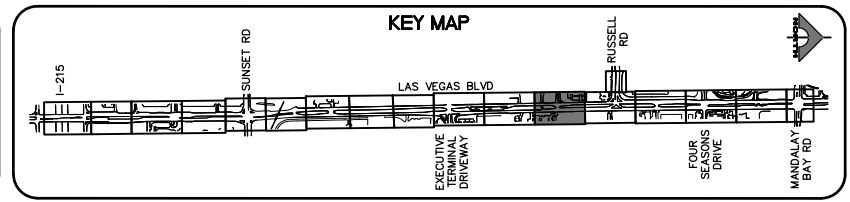
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**CALL BEFORE YOU DO OVERHEAD**

Avoid hitting overhead power lines. It's costly.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

**1-800-227-2600**

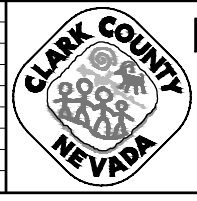
**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**CONSTRUCTION PLAN**

**"LVB" 88+50.00 TO "LVB" 96+00.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

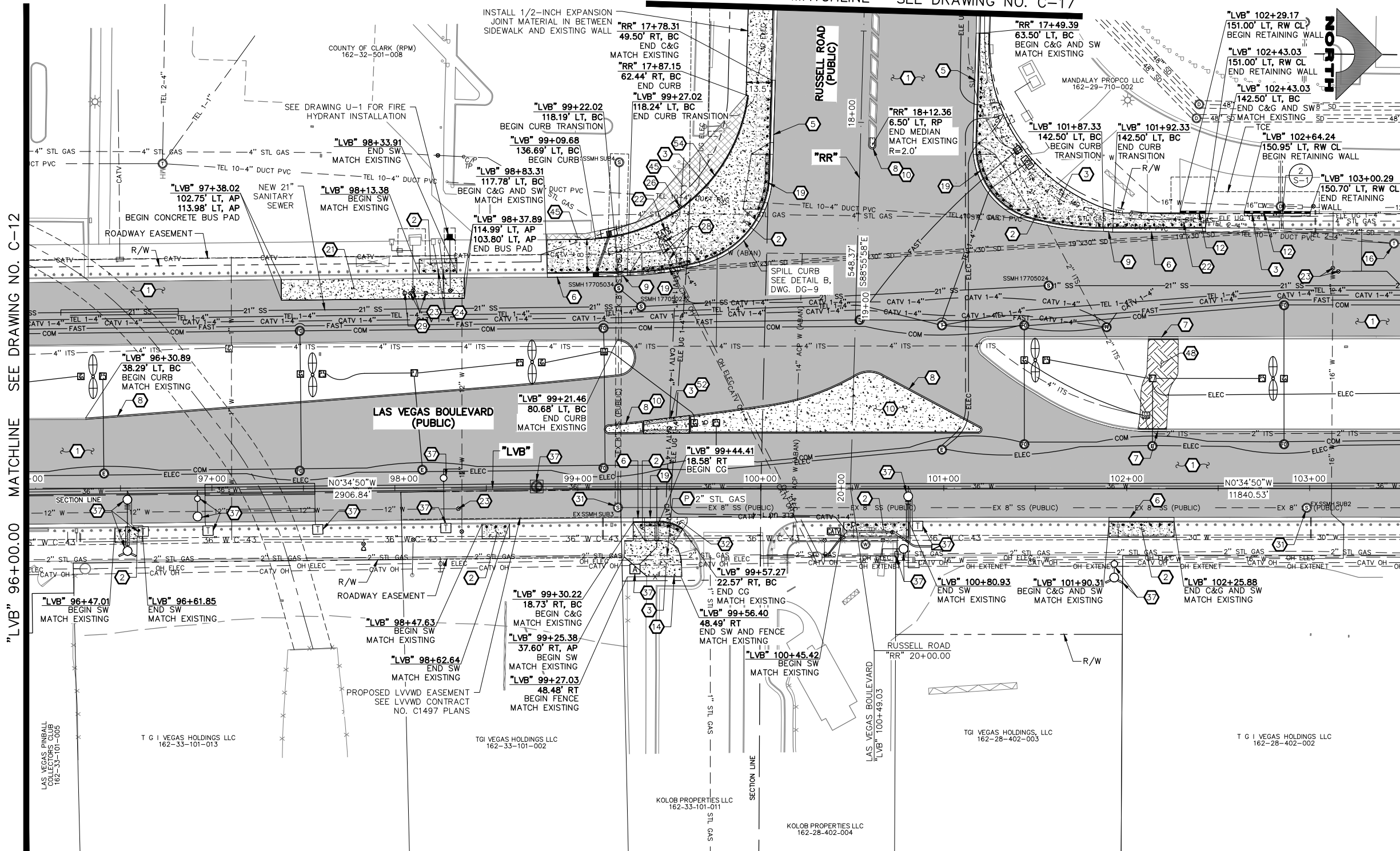
DRAWING NO. **C-12** SHT. 49 OF 159

L-2272

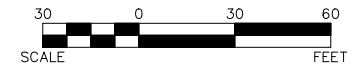
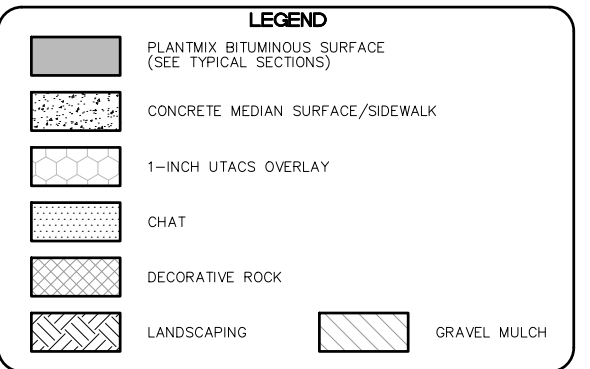
BID NO.: 605718-20



"RR" 17+40.00 MATCHLINE SEE DRAWING NO. C-17



- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF #1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT CURB TRANSITION (SEE DETAIL C, DWG. DT-5)
  - CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
  - CONSTRUCT CONCRETE RETAINING WALL (SEE DETAILS A AND B, DWG. S-1)
  - RESET WROUGHT IRON FENCE
  - ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT 10-INCH CONCRETE PAVEMENT OVER 8-INCH TYPE II AGGREGATE BASE (BUS PAD) (NDOT STD. DETAIL NO. CP-1)
  - ADJUST CATV PULLBOX TO GRADE (BY COX)
  - ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - REMOVE POWER POLE AND RELOCATE ELECTRICAL OVERHEAD LINE (BY NV ENERGY). RELOCATE CATV OVERHEAD LINE (BY COX)
  - ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
  - SEE LVVD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - INSTALL DECORATIVE ROCK (6-INCH DEPTH)
  - MODIFY LANDSCAPING/IRRIGATION
  - CONSTRUCT MEDIAN CROSSING (SEE DETAIL D, DWG. DT-5)
  - CONSTRUCT MONOLITHIC CURB (SEE DETAIL E, DWG. DT-5)
  - PROTECT-IN-PLACE
- ### NOTES
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



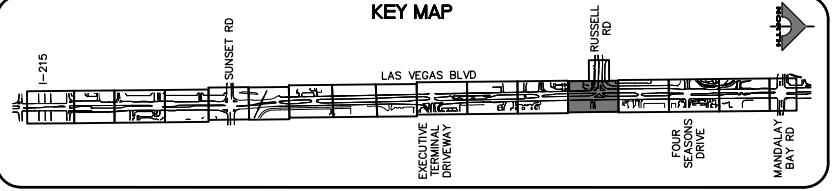
"LVB" 96+00.00 MATCHLINE SEE DRAWING NO. C-12

"LVB" 103+50.00 MATCHLINE SEE DRAWING NO. C-14

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
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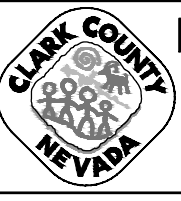


**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.  
1-702-227-2929

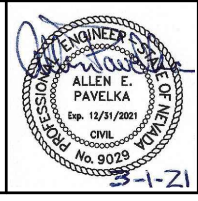
**FAST**  
Call before you UnderGround.  
1-702-432-5300  
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.  
Call 811  
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 96+00.00 TO "LVB" 103+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
DRAWING NO. **C-13**  
SHT. 50 OF 159  
L-2272

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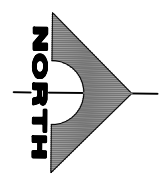
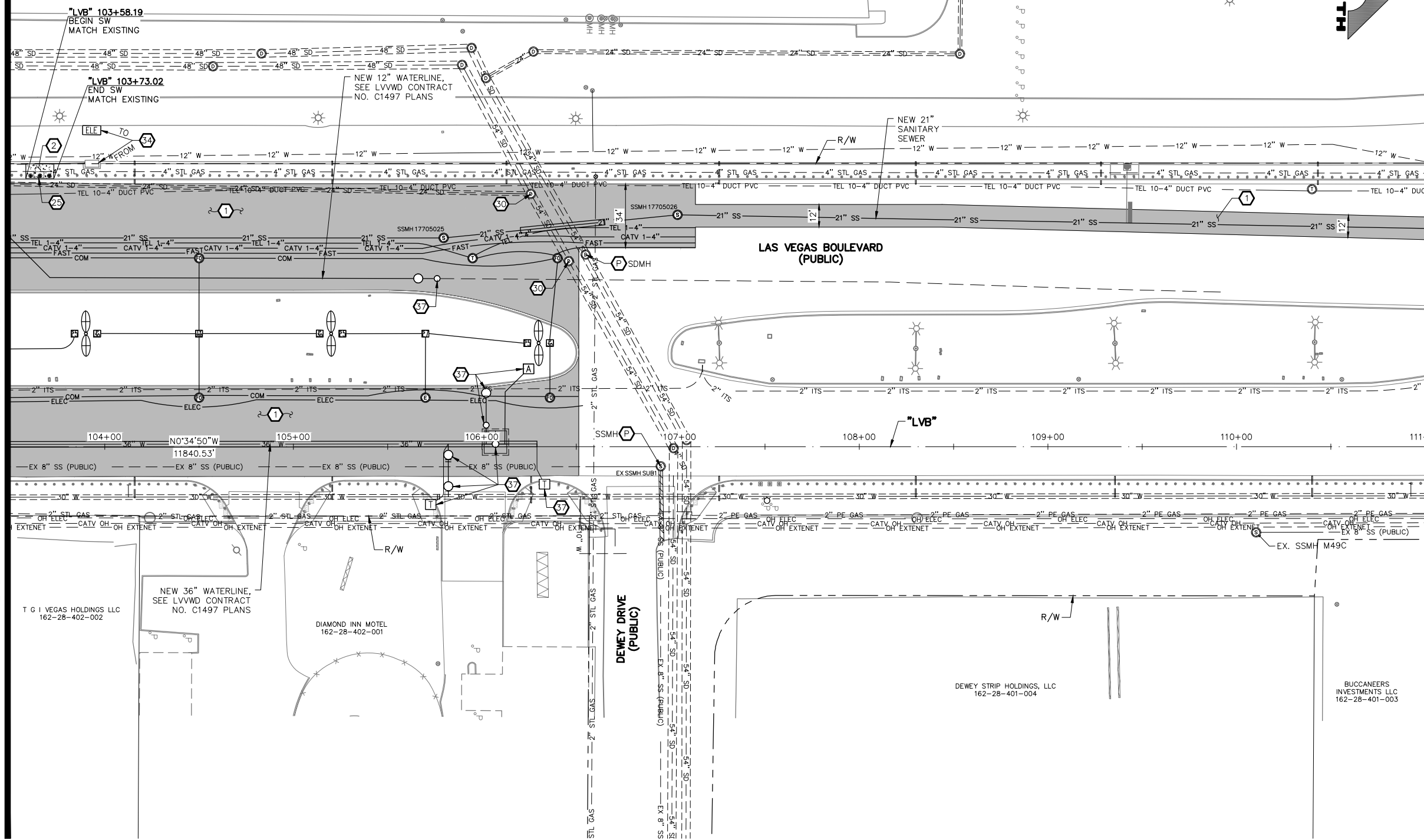
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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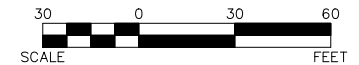
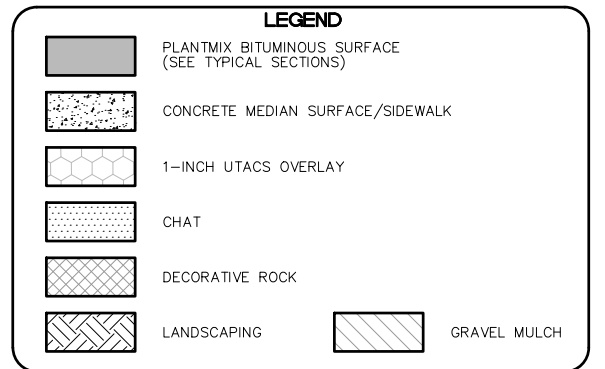
"LVB" 103+50.00 MATCHLINE SEE DRAWING NO. C-13

"LVB" 111+00.00 MATCHLINE SEE DRAWING NO. C-15

MANDALAY PROPCO LLC  
162-29-710-002



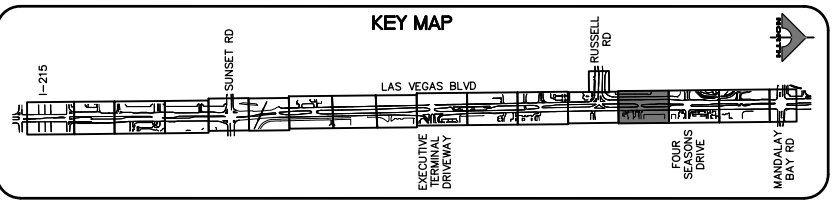
- CONSTRUCTION NOTES**
1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  2. CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF # 1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  25. RELOCATE MCI VAULT (BY VERIZON BUSINESS)
  30. ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
  34. RELOCATE ELECTRIC VAULT (BY NV ENERGY) (SEE NV ENERGY PLANS)
  37. SEE LVVD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - P. PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



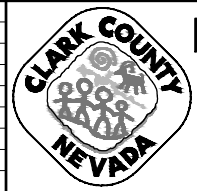
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

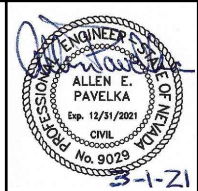
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 103+50.00 TO "LVB" 111+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. C-14  
SHT. 51 OF 159  
L-2272

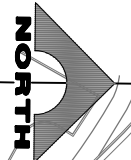
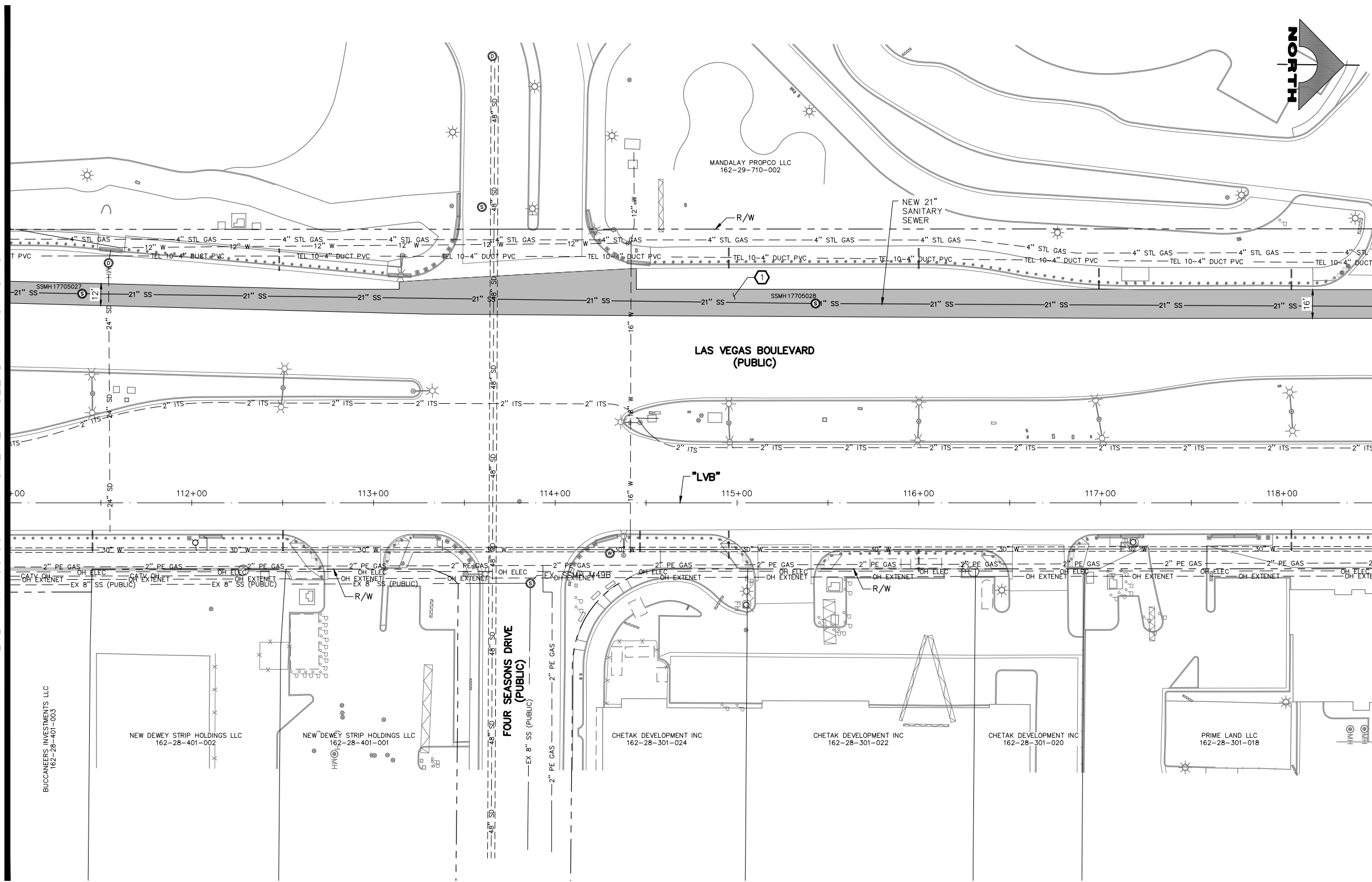
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



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"LVB" 111+00.00 MATCHLINE SEE DRAWING NO. C-14

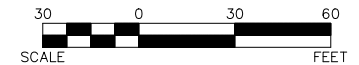
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- CONSTRUCTION NOTES**
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - SEE U-DRAWINGS FOR FIRE HYDRANT INSTALLATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

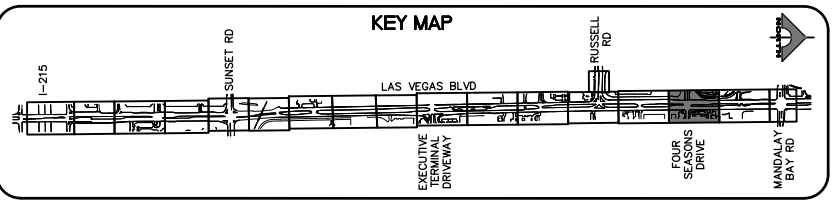
- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



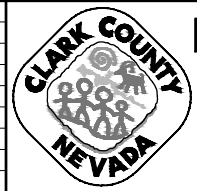
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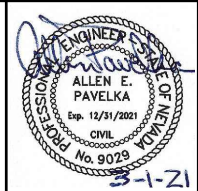
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 111+00.00 TO "LVB" 118+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

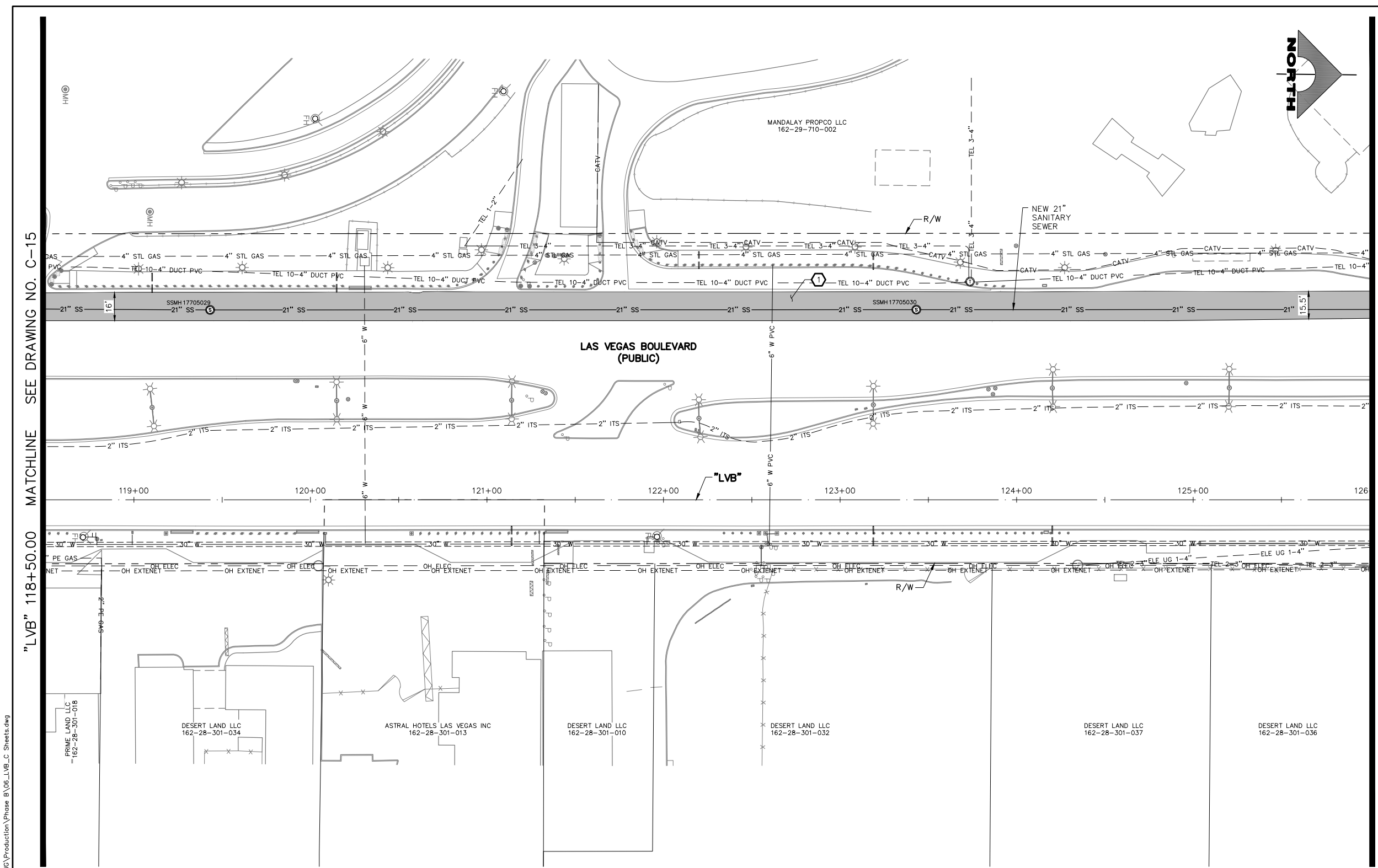


PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-15
VERT: NONE	SHT. 52 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



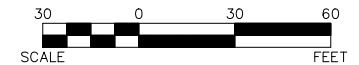
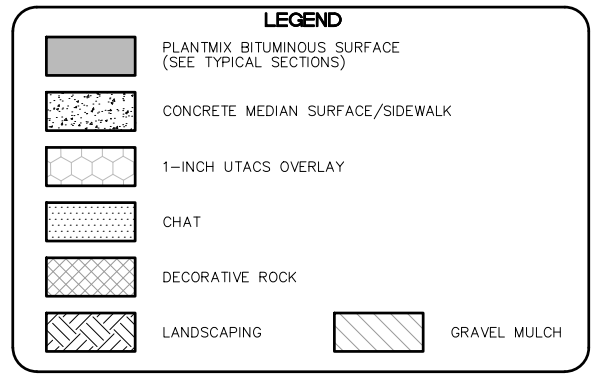


**CONSTRUCTION NOTES**

① CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)

**NOTES**

1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
2. SEE DC-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



"LVB" 118+50.00 MATCHLINE SEE DRAWING NO. C-15

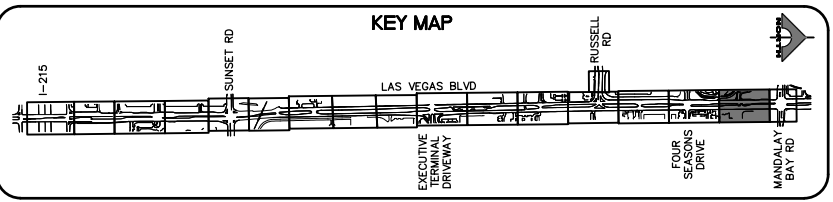
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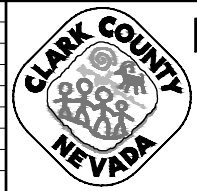
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

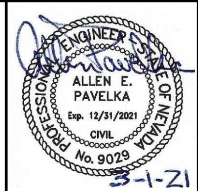
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



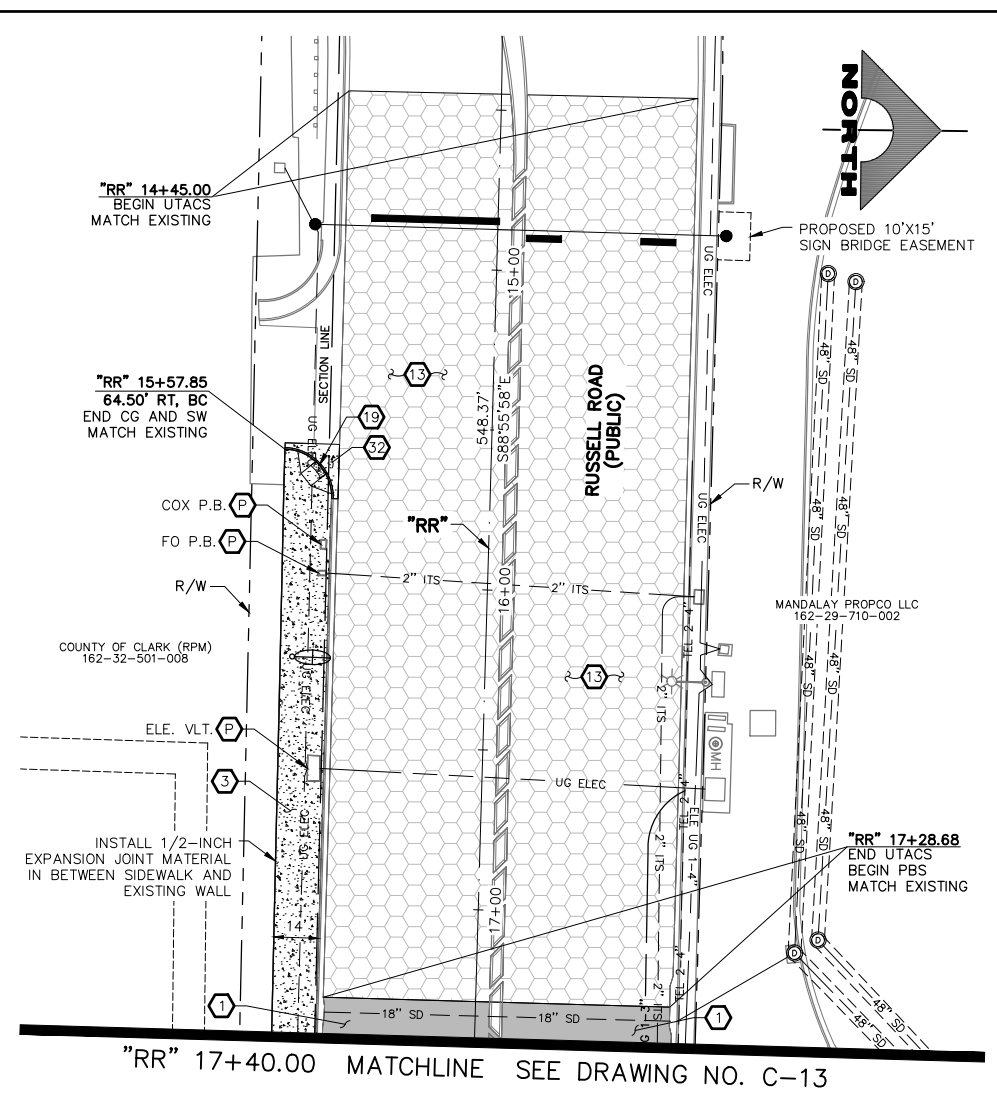
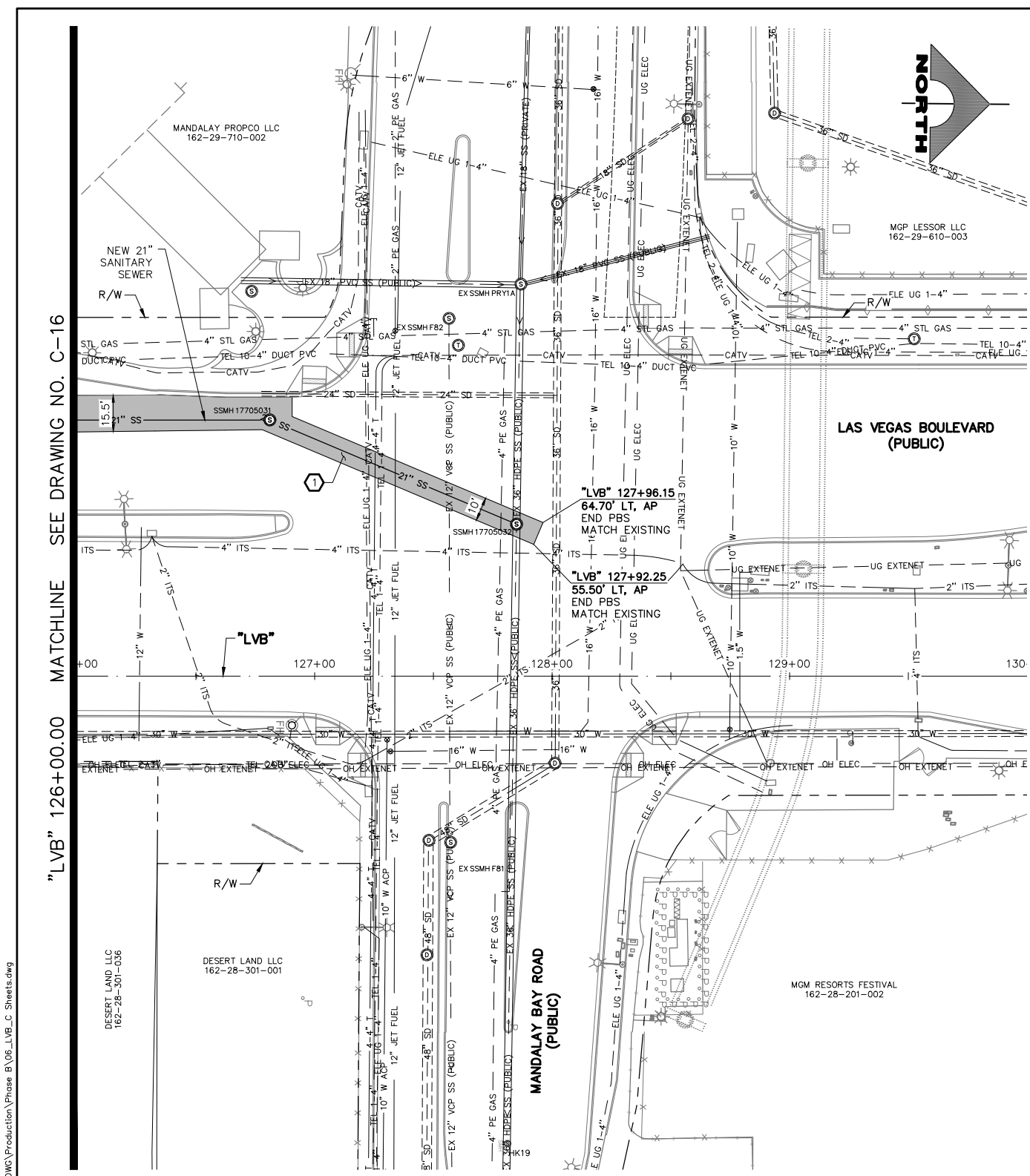
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 118+50.00 TO "LVB" 126+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



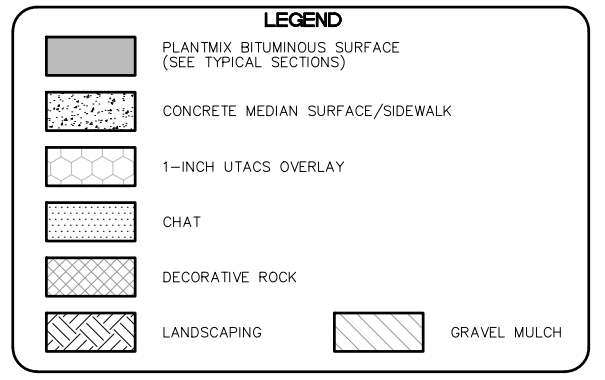
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. C-16  
SHT. 53 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



- CONSTRUCTION NOTES**
- 1 CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 5 CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 19 CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - 32 CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
  - P PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



"LVB" 126+00.00 MATCHLINE SEE DRAWING NO. C-16

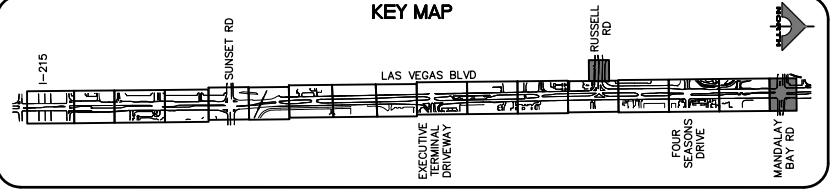
"RR" 17+40.00 MATCHLINE SEE DRAWING NO. C-13

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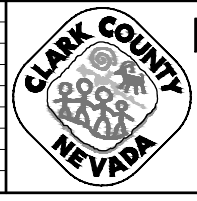
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881  
48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 126+00.00 TO "LVB" 130+00.00 & "RR" 14+00.00 TO "RR" 17+40.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



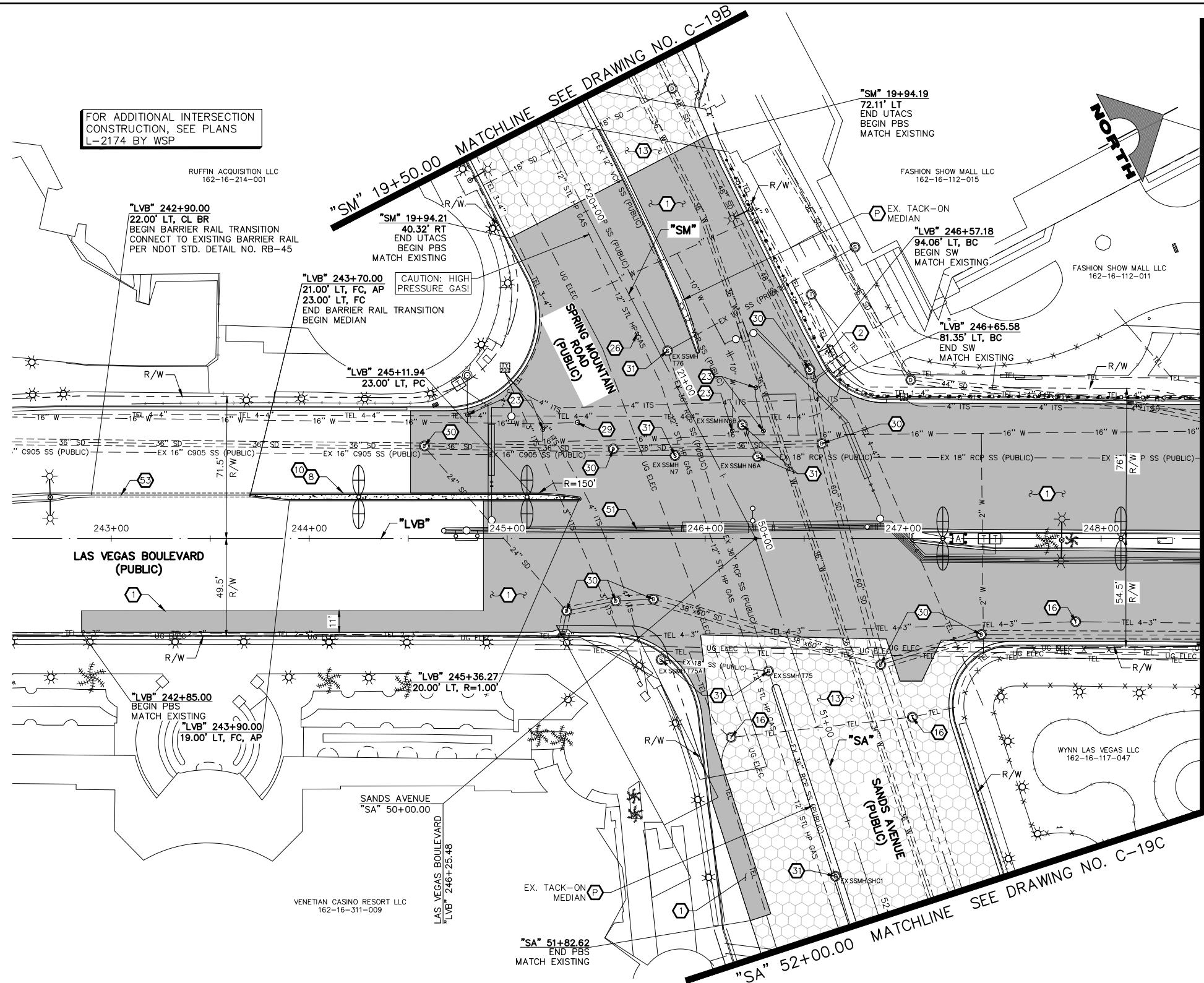
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
DRAWING NO.  
**C-17**  
SHT. 54 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



02-26-21 09:54:28 F:\Projects\500\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\06-LVB-C Sheets.dwg



FOR ADDITIONAL INTERSECTION CONSTRUCTION, SEE PLANS L-2174 BY WSP

RUFFIN ACQUISITION LLC  
162-16-214-001

"LVB" 242+90.00  
22.00' LT, CL BR  
BEGIN BARRIER RAIL TRANSITION  
CONNECT TO EXISTING BARRIER RAIL  
PER NDOT STD. DETAIL NO. RB-45

"SM" 19+94.21  
40.32' RT  
END UTACS  
BEGIN PBS  
MATCH EXISTING

"LVB" 243+70.00  
21.00' LT, FC, AP  
23.00' LT, FC  
END BARRIER RAIL TRANSITION  
BEGIN MEDIAN  
CAUTION: HIGH PRESSURE GAS!

"LVB" 245+11.94  
23.00' LT, PC

"SM" 19+94.19  
72.11' LT  
END UTACS  
BEGIN PBS  
MATCH EXISTING

FASHION SHOW MALL LLC  
162-16-112-015

"LVB" 246+57.18  
94.06' LT, BC  
BEGIN SW  
MATCH EXISTING

"LVB" 246+65.58  
81.35' LT, BC  
END SW  
MATCH EXISTING



LAS VEGAS BOULEVARD  
(PUBLIC)

"LVB" 242+85.00  
BEGIN PBS  
MATCH EXISTING

"LVB" 243+90.00  
19.00' LT, FC, AP

SANDS AVENUE  
"SA" 50+00.00

VENETIAN CASINO RESORT LLC  
162-16-311-009

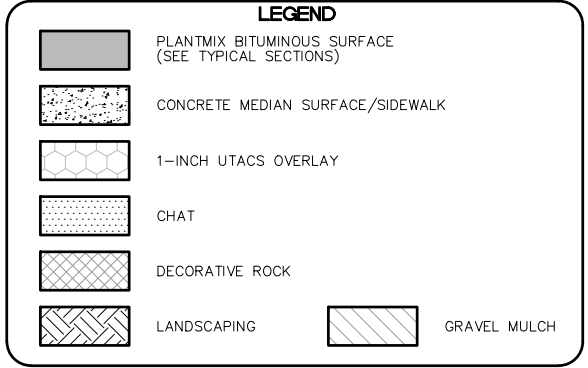
LAS VEGAS BOULEVARD  
"LVB" 246+25.48

"SA" 51+82.62  
END PBS  
MATCH EXISTING

"SA" 52+00.00 MATCHLINE SEE DRAWING NO. C-19C

"LVB" 248+50.00 MATCHLINE SEE DRAWING NO. C-19

- CONSTRUCTION NOTES**
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF #1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  - CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
  - CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - ADJUST SANITARY SEWER MANHOLE TO GRADE (USDCCA STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - SEE CCPW L-2210 FOR NEW WATERLINE AND APPURTENANCES
  - CONSTRUCT CONCRETE BARRIER RAIL WITH VERTICAL TAPER AND 6-INCH CONCRETE BASE (NDOT STD. DETAIL RB-46)
  - PROTECT-IN-PLACE
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

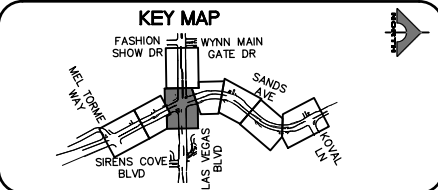


**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

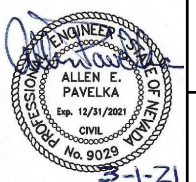
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"LVB" 242+50.00 TO "LVB" 248+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
DRAWING NO.  
**C-18**  
SHT. 55 OF 159  
L-2272

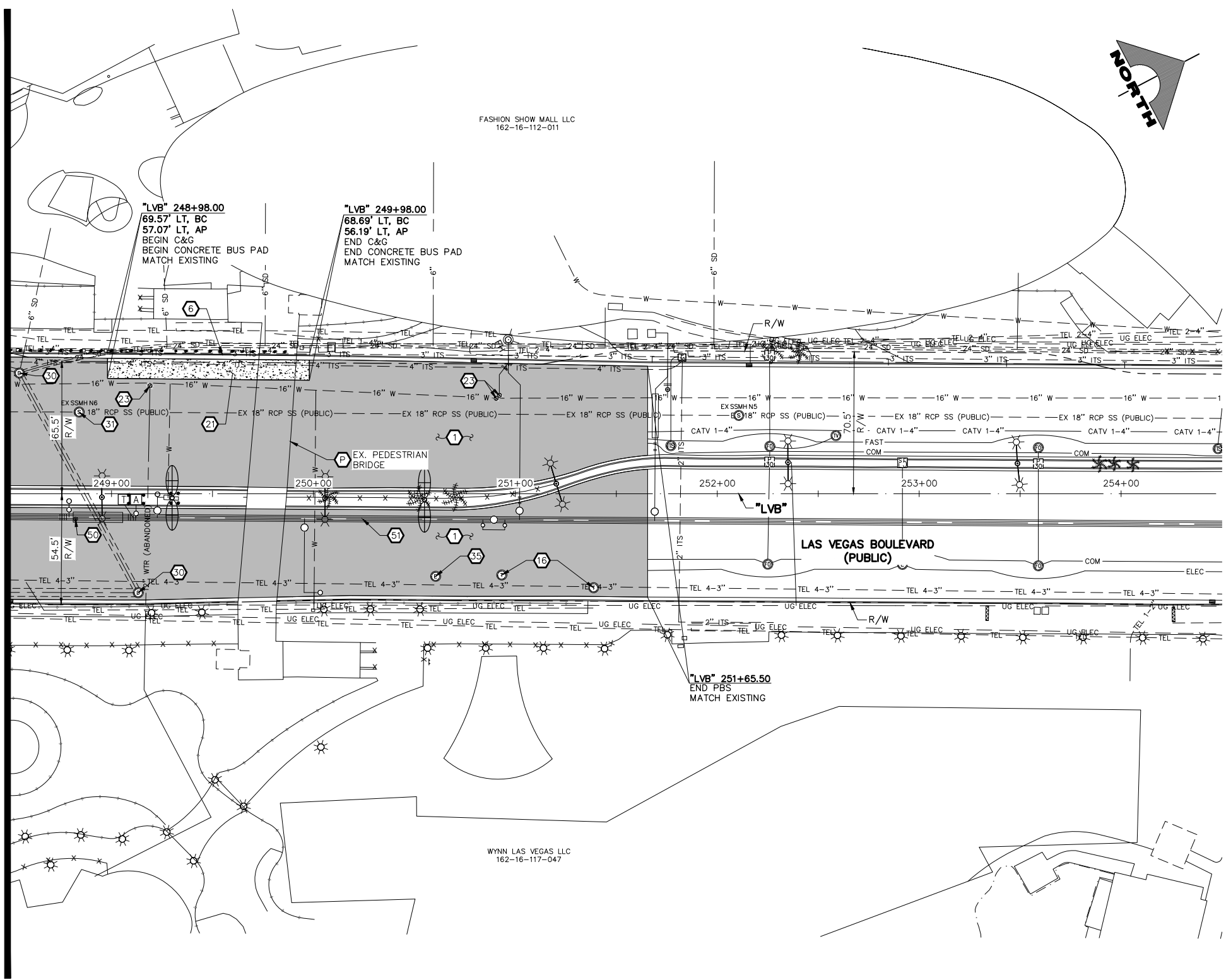
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

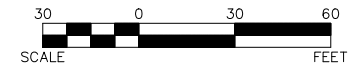
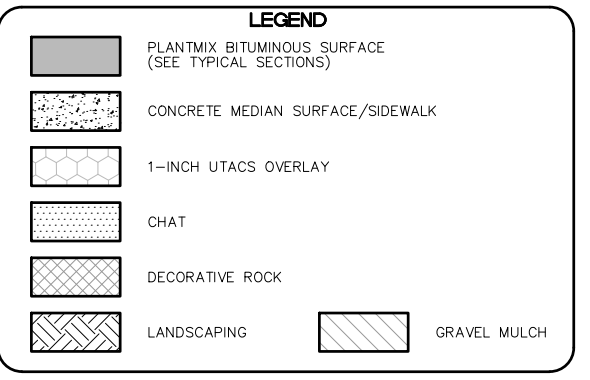


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"LVB" 248+50.00 MATCHLINE SEE DRAWING NO. C-18



- CONSTRUCTION NOTES**
- 1 CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - 6 CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - 16 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 21 CONSTRUCT 10-INCH CONCRETE PAVEMENT OVER 8-INCH TYPE II AGGREGATE BASE (BUS PAD) (NDOT STD. DETAIL NO. CP-1)
  - 23 ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 30 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
  - 31 ADJUST SANITARY SEWER MANHOLE TO GRADE (USDCCA STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 35 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 50 ADJUST MONITORING WELL TO GRADE
  - 51 SEE CCPW L-2210 FOR NEW WATERLINE AND APPURTENANCES
  - P PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWINGS FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

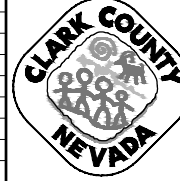
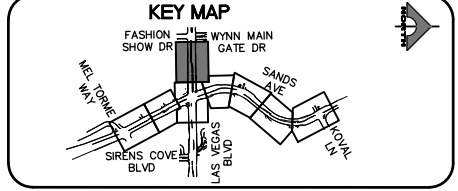


**APPROVED FOR CONSTRUCTION**

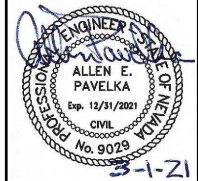
SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
 "LVB" 248+50.00 TO "LVB" 254+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

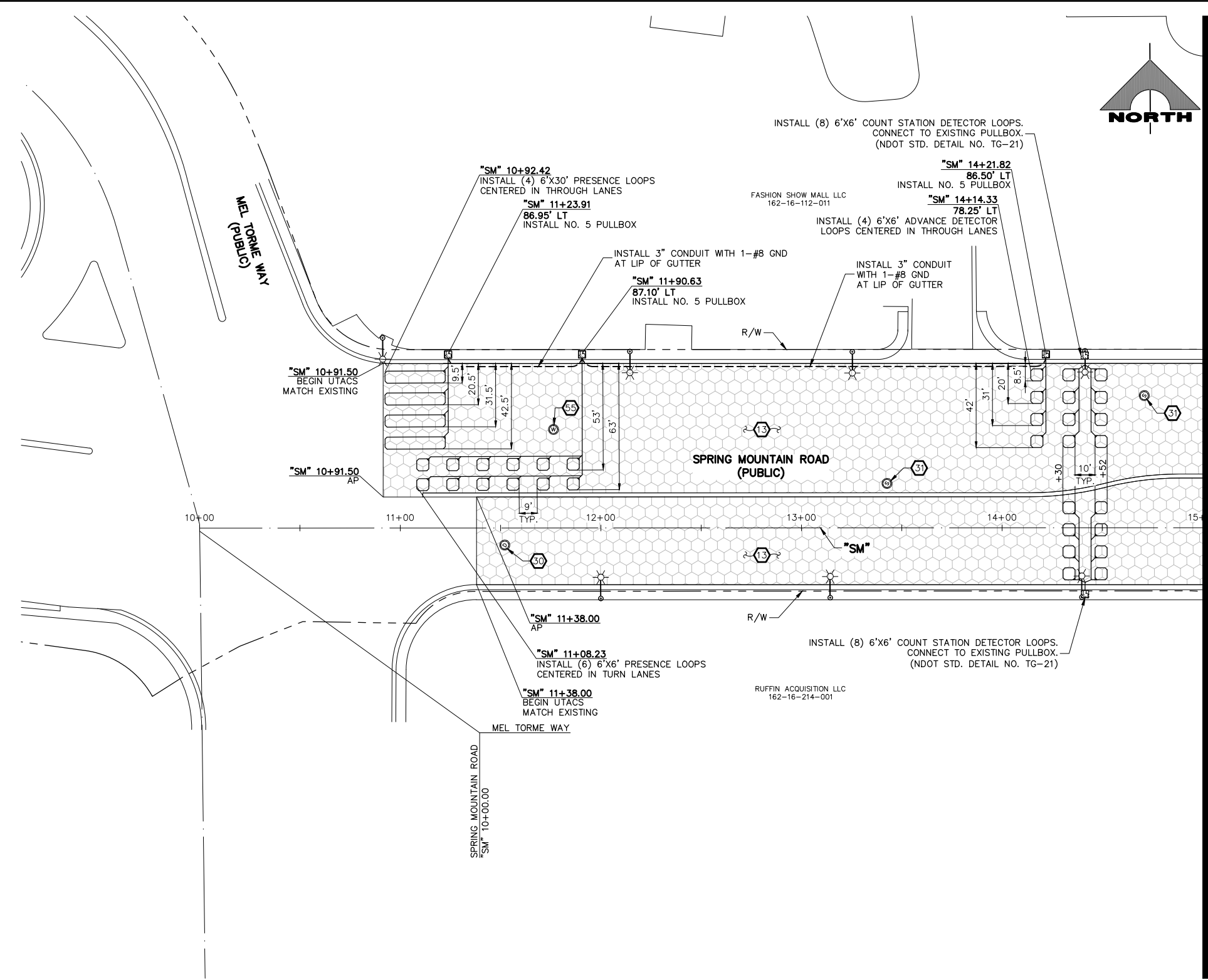
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-19
VERT: NONE	SHT. 56 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

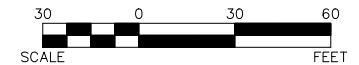
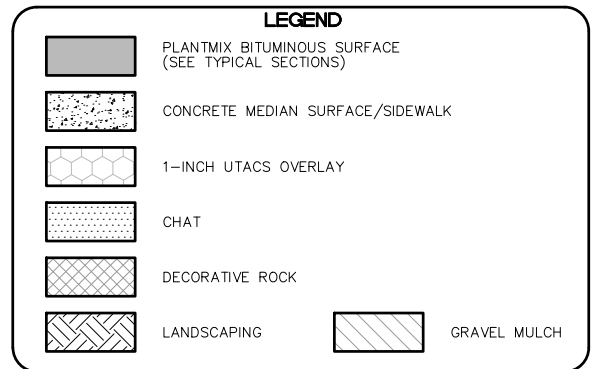
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

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"SM" 15+00.00 MATCHLINE SEE DRAWING NO. C-19B

- CONSTRUCTION NOTES**
- 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 30 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 51 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 65 ADJUST WATER MANHOLE TO GRADE AND CONSTRUCT CONCRETE COLLAR (SEE DETAIL C, DWG. DT-7)
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

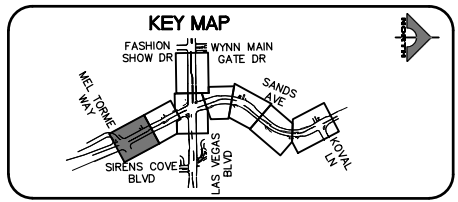
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

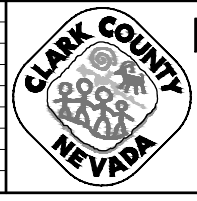
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
"SM" 10+00.00 TO "SM" 15+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

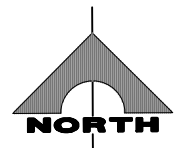
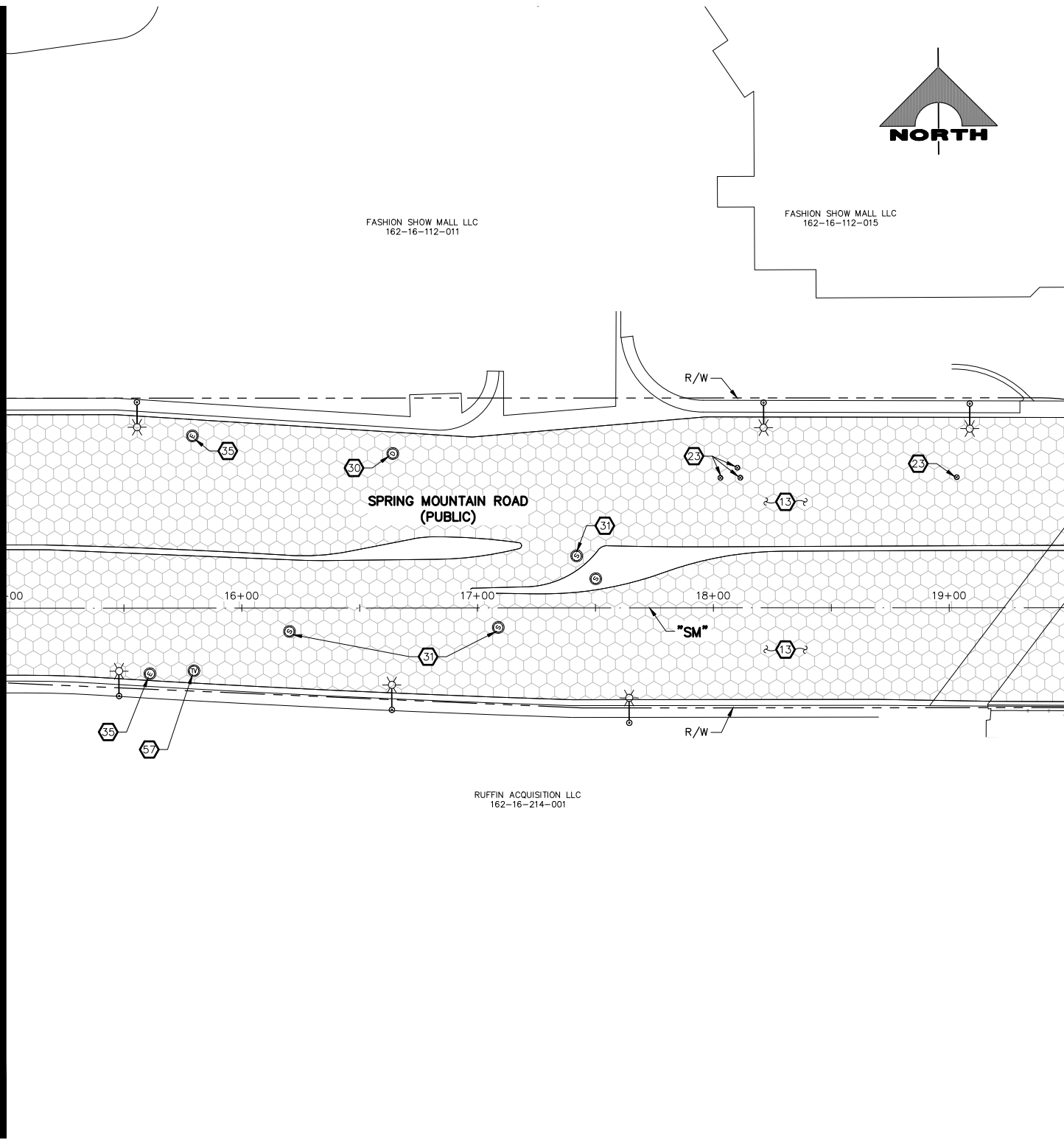
DRAWING NO. **C-19A**  
SHT. 56A OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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"SM" 15+00.00 MATCHLINE SEE DRAWING NO. C-19A

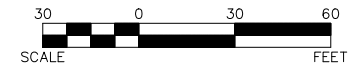
"SM" 19+50.00 MATCHLINE SEE DRAWING NO. C-18



- CONSTRUCTION NOTES**
- 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 23 ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 30 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 31 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 35 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 37 ADJUST CATV MANHOLE TO GRADE (BY COX)
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

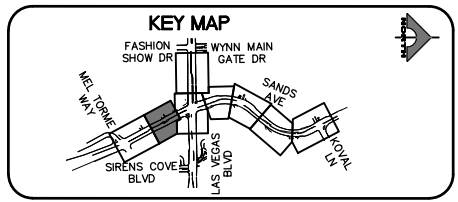
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

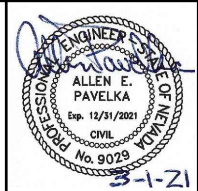
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"SM" 15+00.00 TO "SM" 19+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

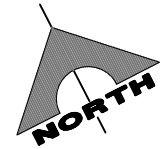
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DRAWING NO. **C-19B**  
SHT. 56B OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



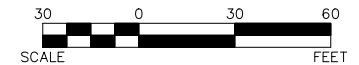
F:\Projects\500\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\06-LVB\_C Sheets.dwg



- CONSTRUCTION NOTES**
- 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 16 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 23 ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 35 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 31 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 35 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

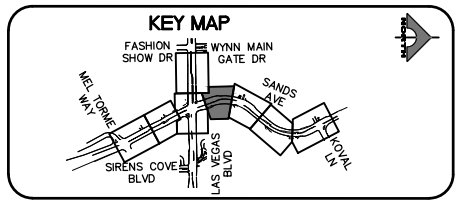
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

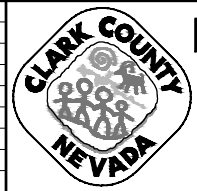
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

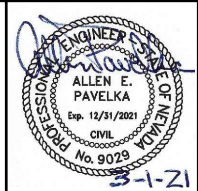
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"SA" 52+00.00 TO "SA" 56+00.00**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

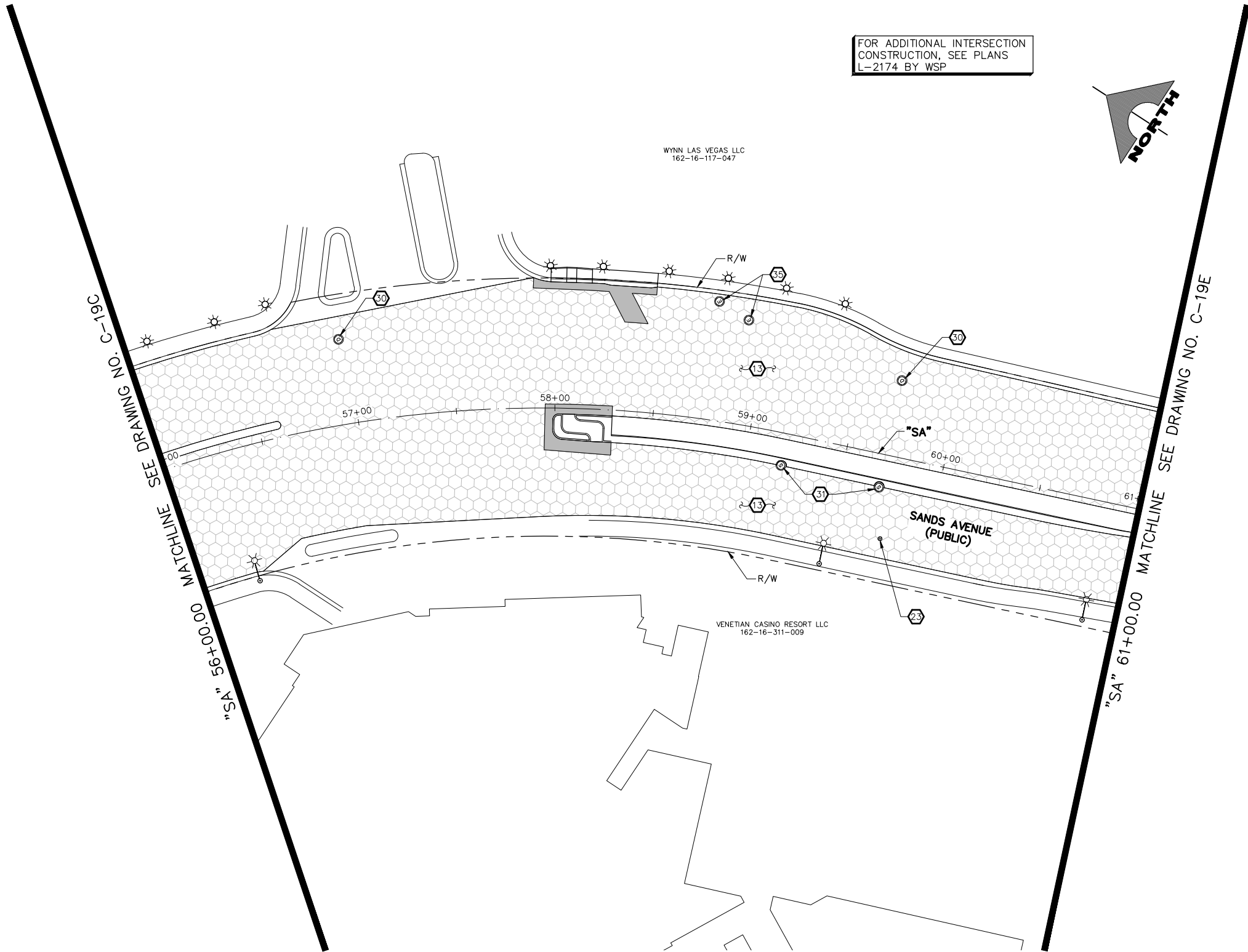
SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
**C-19C**  
SHT. 56C OF 159  
L-2272

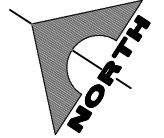
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

F:\Projects\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\06-LVB-C Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



FOR ADDITIONAL INTERSECTION CONSTRUCTION, SEE PLANS L-2174 BY WSP



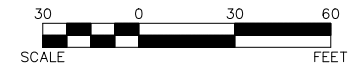
WYNN LAS VEGAS LLC  
162-16-117-047

VENETIAN CASINO RESORT LLC  
162-16-311-009

- CONSTRUCTION NOTES**
- 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 23 ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 30 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
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  - 35 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

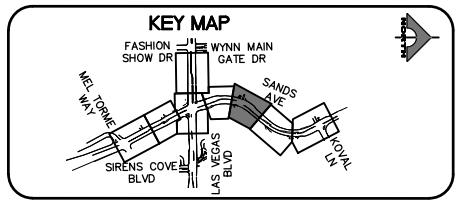
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

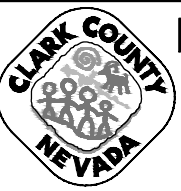
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

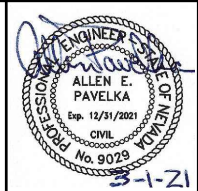
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"SA" 56+00.00 TO "SA" 61+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

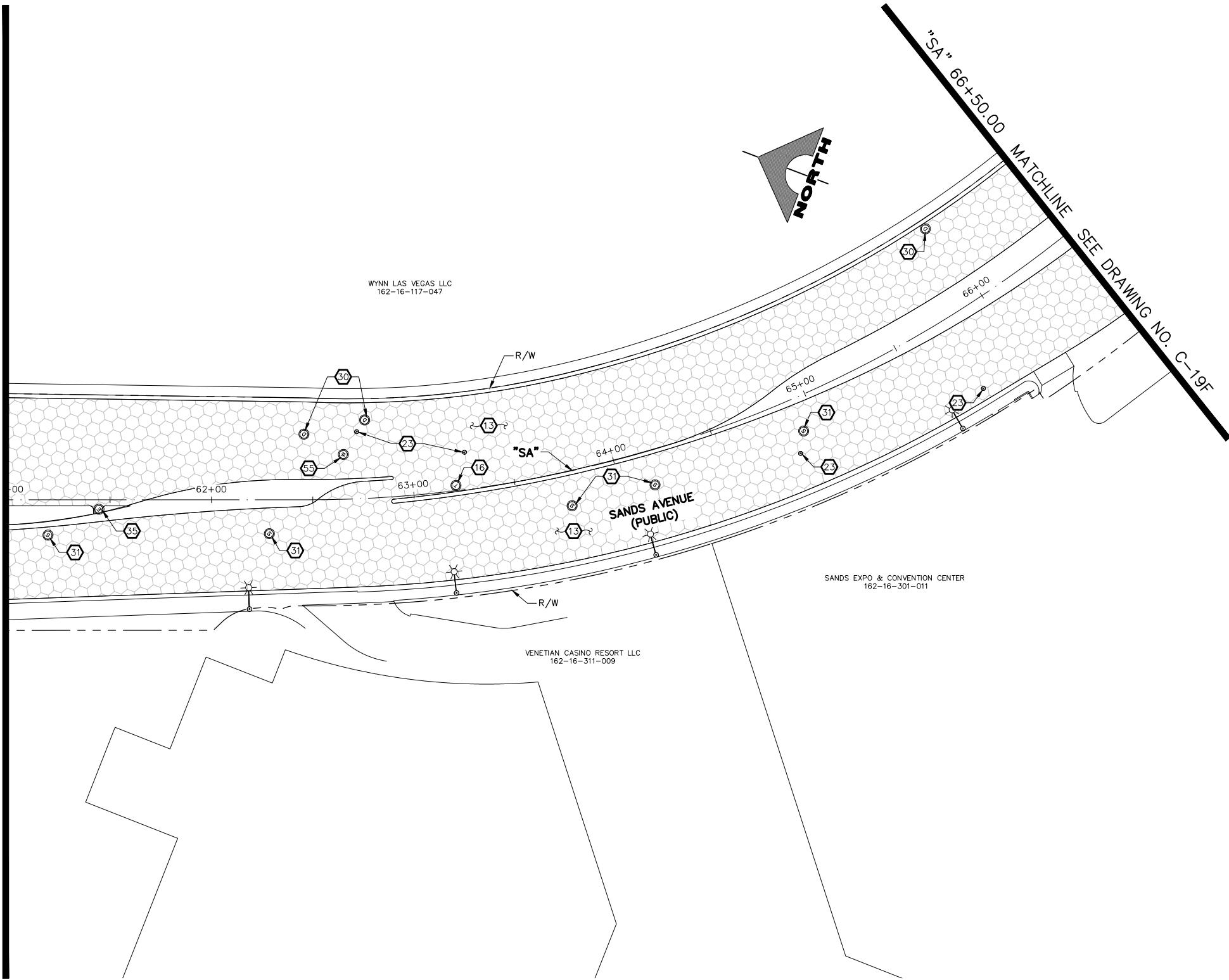
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SHT. 56D OF 159  
L-2272

BID NO.: 605718-20

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"SA" 61+00.00 MATCHLINE SEE DRAWING NO. C-19D

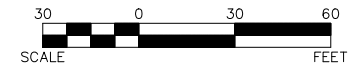
"SA" 66+50.00 MATCHLINE SEE DRAWING NO. C-19F



- CONSTRUCTION NOTES**
- 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 16 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 23 ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 30 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 31 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
  - 35 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 35 ADJUST WATER MANHOLE TO GRADE AND CONSTRUCT CONCRETE COLLAR (SEE DETAIL C, DWG. DT-7)
- NOTES**
- 1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - 2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - 3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  - 4. SEE U-DRAWING FOR FIRE HYDRANT INSTALLATIONS
  - 5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - 6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY
	CHAT
	DECORATIVE ROCK
	LANDSCAPING
	GRAVEL MULCH

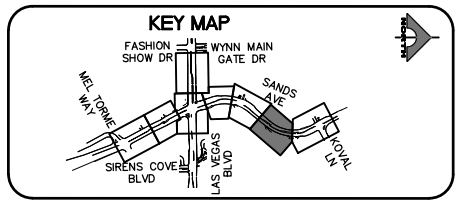


**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

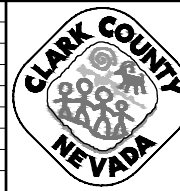
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

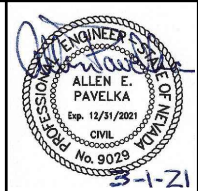
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"SA" 61+00.00 TO "SA" 66+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **C-19E**  
SHT. 56E OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



WYNN LAS VEGAS LLC  
162-16-117-047

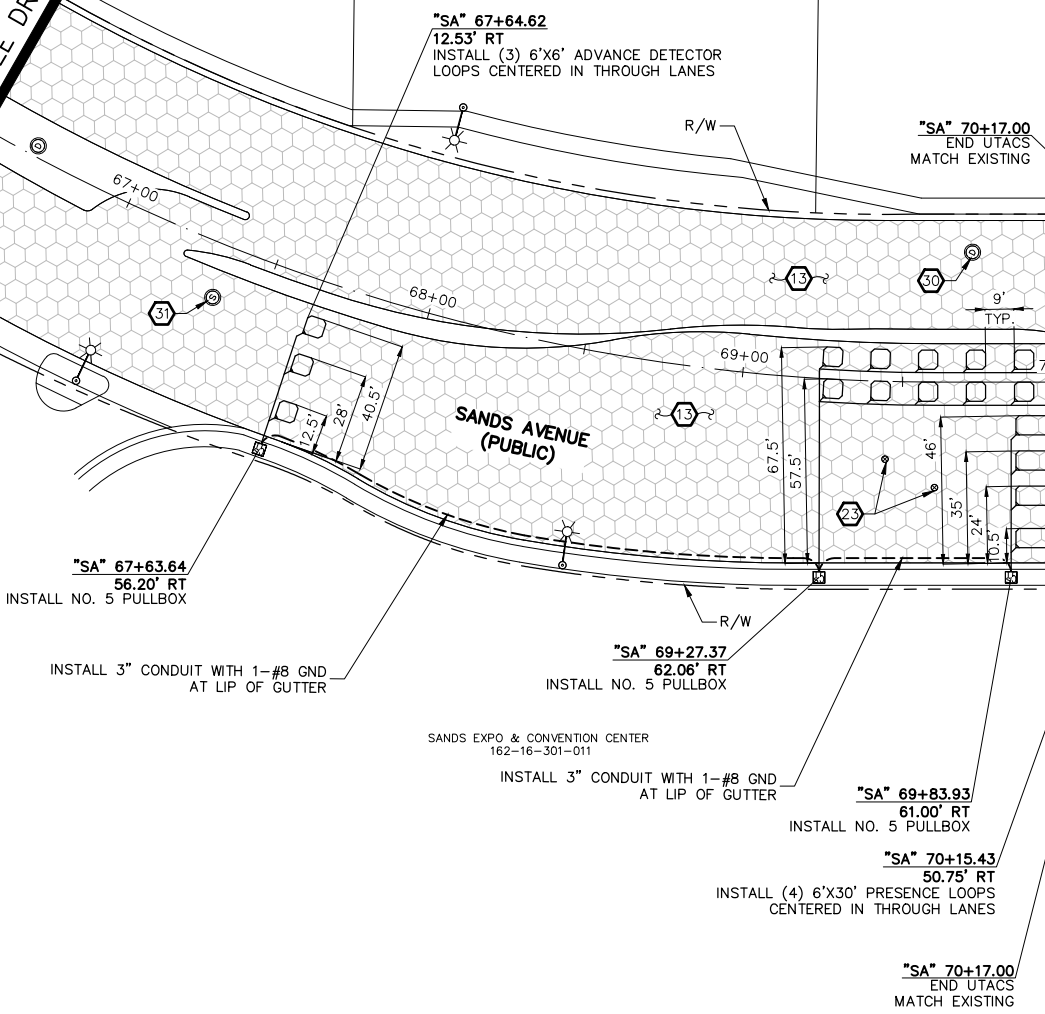
NEVADA POWER COMPANY  
162-16-203-006

SANDS EXPO & CONVENTION CENTER  
162-16-301-011



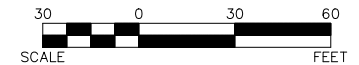
- CONSTRUCTION NOTES**
- 13 CONSTRUCT 1-INCH UTACS OVERLAY (SEE TY-DRAWINGS)
  - 25 ADJUST WATER VALVE BOX COVER TO GRADE (UDACS PLATE NO. 39)
  - 30 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 31 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-1, SD-4, AND SD-5)
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE SS-DRAWINGS FOR PROPOSED SANITARY SEWER
  4. SEE U-DRAWINGS FOR FIRE HYDRANT INSTALLATIONS
  5. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  6. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

"SA" 66+50.00 MATCHLINE SEE DRAWING NO. C-19E



**LEGEND**

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- DECORATIVE ROCK
- LANDSCAPING
- GRAVEL MULCH



**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

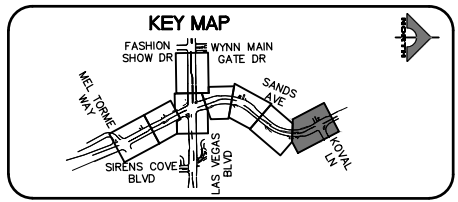
**SOUTHWEST GAS VALVE NOTE**  
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**APPROVED FOR CONSTRUCTION**

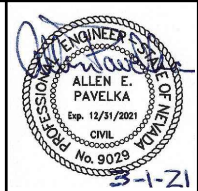
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION PLAN**  
**"SA" 66+50.00 TO "SA" 73+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

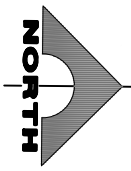
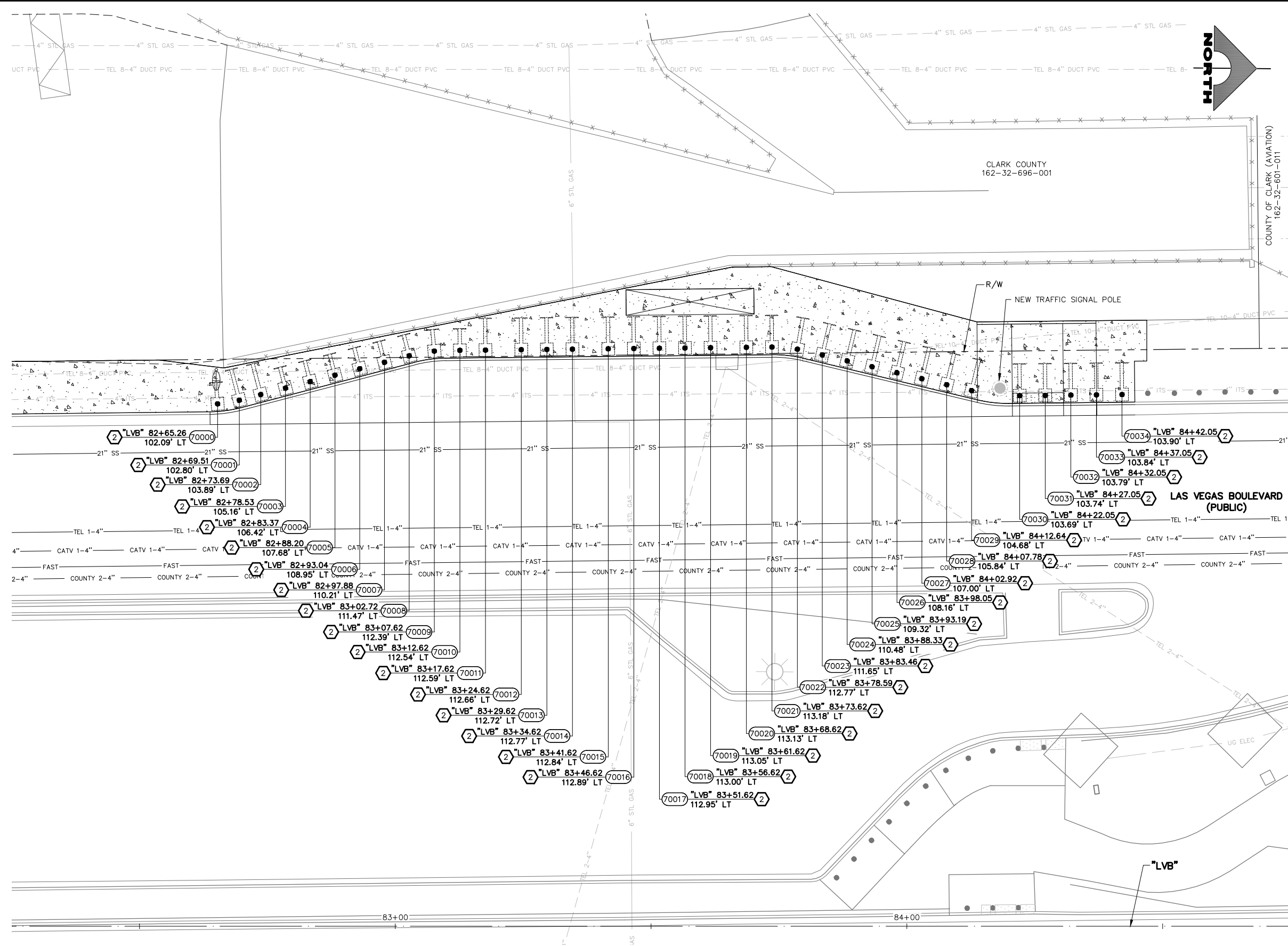


PROJECT No: 500-897-LV DRAWN BY: JDS  
DESIGNED BY: JDS CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-19F
VERT: NONE	SHT. 56F OF 159
FIELD BOOK	L-2272

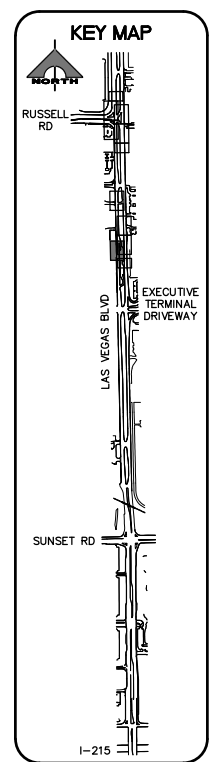
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- BOLLARD NOTES**
- 1 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 2 INSTALL 48-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 3 INSTALL DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 4 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 5 INSTALL TYPE IV/VI BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 6 PROTECT-IN-PLACE
- NOTES**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

**APPROVED FOR CONSTRUCTION**

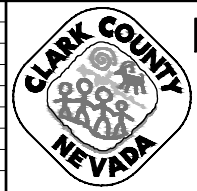
SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



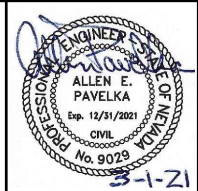
**CALL BEFORE YOU DIG**  
 1-702-227-2929

**FAST**  
 Call before you UnderGround.  
 1-702-432-5300

**Call before you Dig**  
 Call 811  
 1-800-227-2600



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**BOLLARD PLAN**  
 "LVB" 82+25.00 TO "LVB" 84+75.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



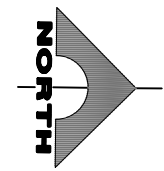
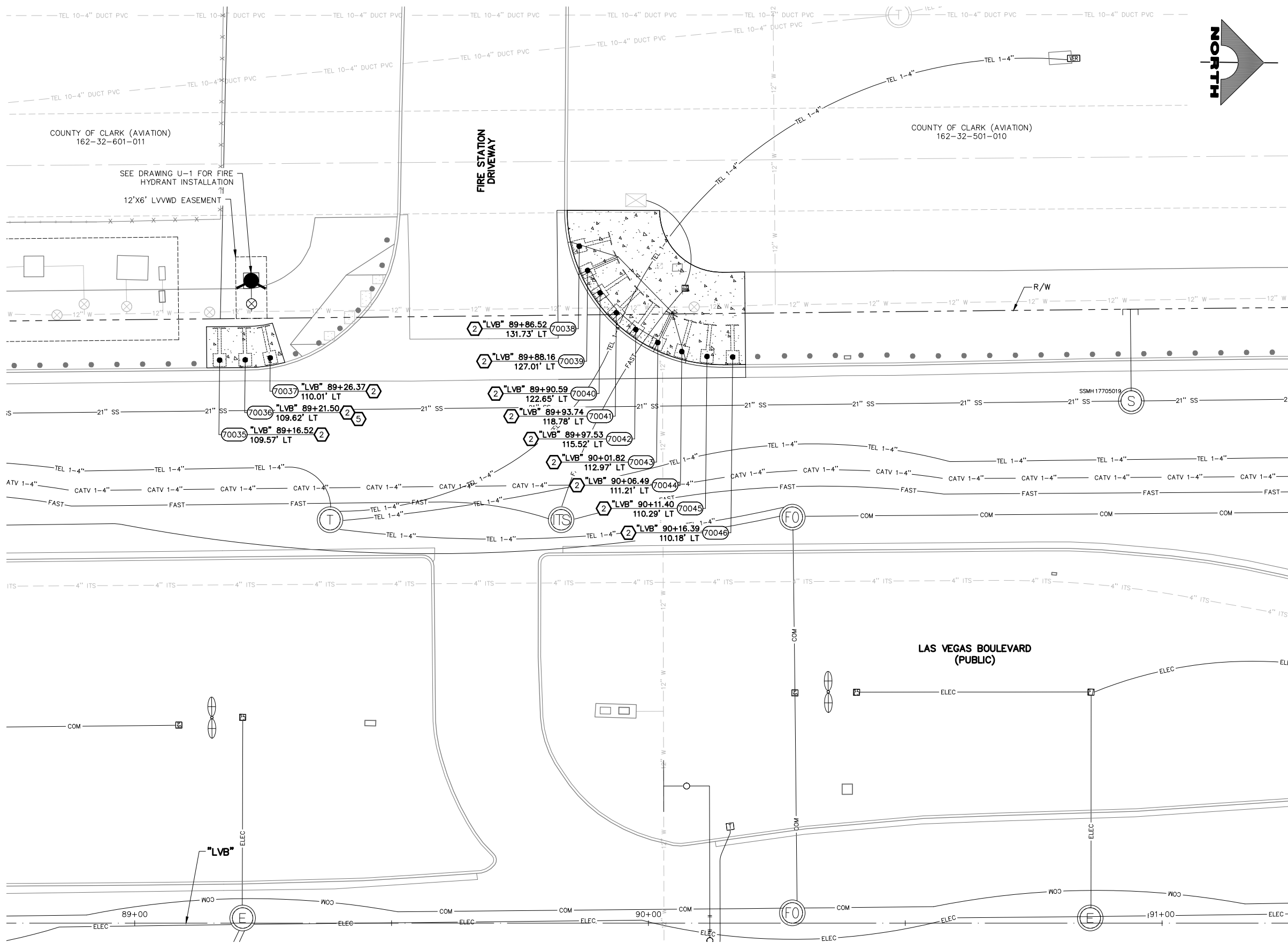
PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-1
VERT: NONE	SHT. 57 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



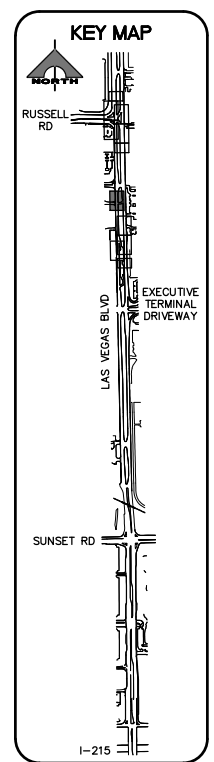
- BOLLARD NOTES**
- 1 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
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  - 4 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 5 INSTALL TYPE IV/VI BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 6 PROTECT-IN-PLACE
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**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



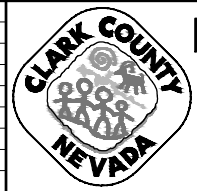
**CALL BEFORE YOU DIG**  
 AVOID HITTING OVERHEAD POWER LINES: IT'S COSTLY.  
 AVOID CUTTING UNDERGROUND UTILITY LINES: IT'S COSTLY.  
 1-702-227-2929

**FAST**  
 Call before you UnderGround.  
 1-702-432-5300  
 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

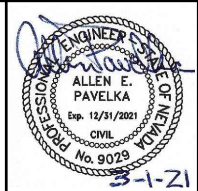
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 AVOID CUTTING UNDERGROUND UTILITY LINES: IT'S COSTLY.  
 Call 811  
 1-800-227-2600

02-26-21 09:28:10 F:\Projects\500-897-LV\DWG\Production\Phase B\07-LVB\_B\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**BOLLARD PLAN**  
 "LVB" 88+75.00 TO "LVB" 91+25.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
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 F: 702.804.2299  
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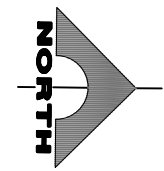
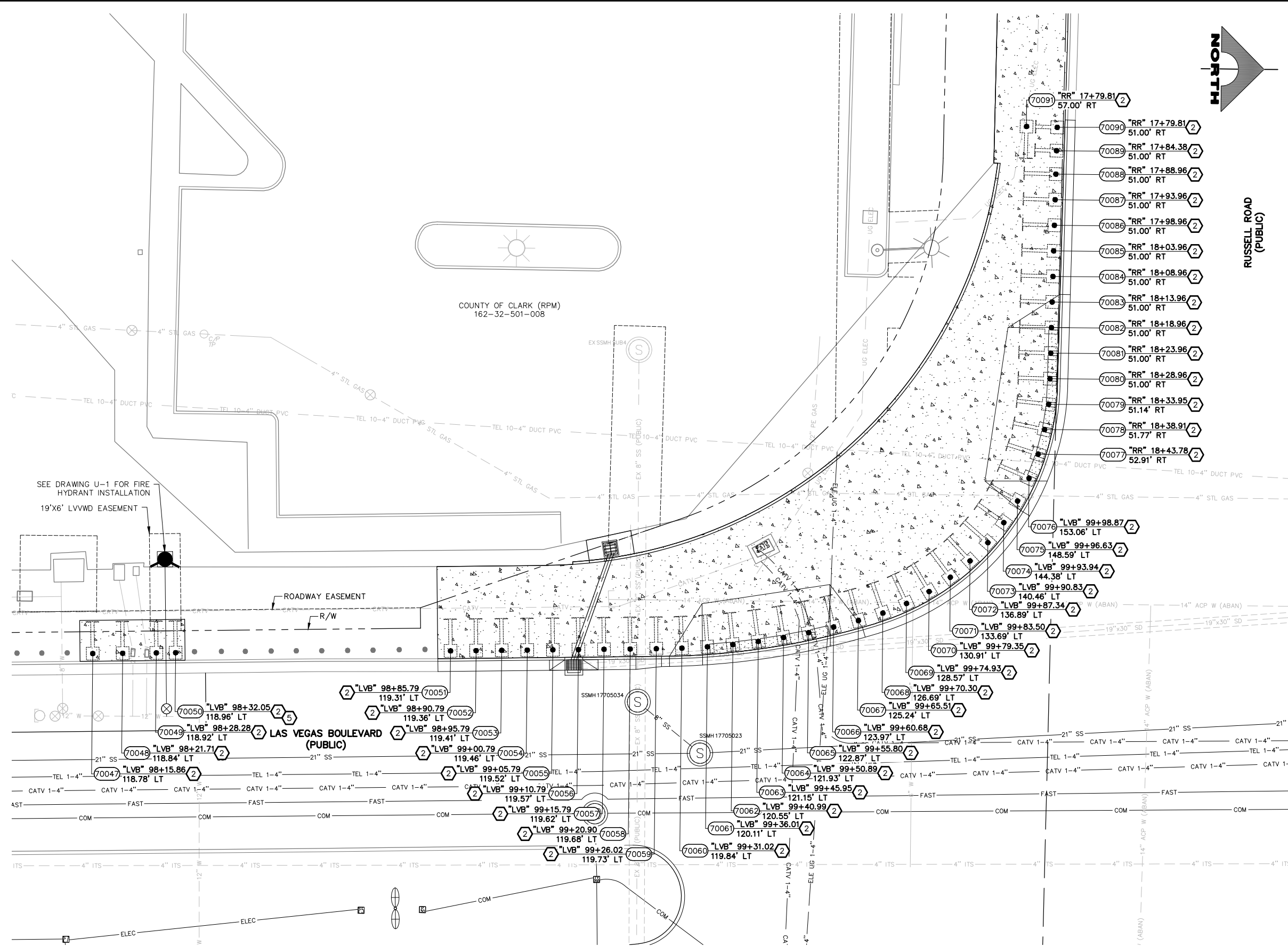
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 VERT: NONE  
 FIELD BOOK

DRAWING NO.  
**B-2**  
 SH. 58 OF 159  
 L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



02-26-21 09:28:24 F:\Projects\500-897-LV\DWG\Production\Phase B\07\_LVB\_B Sheets.dwg



RUSSELL ROAD  
(PUBLIC)

"LVB" 100+50.00 MATCHLINE SEE DRAWING NO. B-4

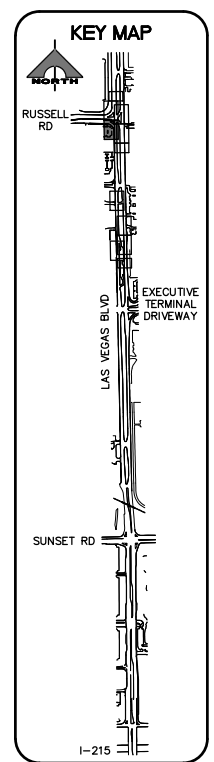
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**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



**CALL BEFORE YOU DO OVERHEAD**

Avoid cutting overhead power lines. It's costly.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

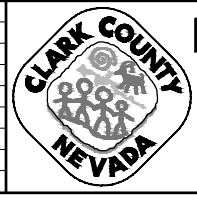
**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

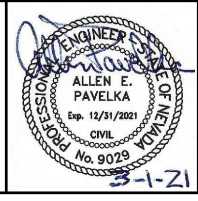


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**BOLLARD PLAN**

**"LVB" 98+00.00 TO "LVB" 100+50.00**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



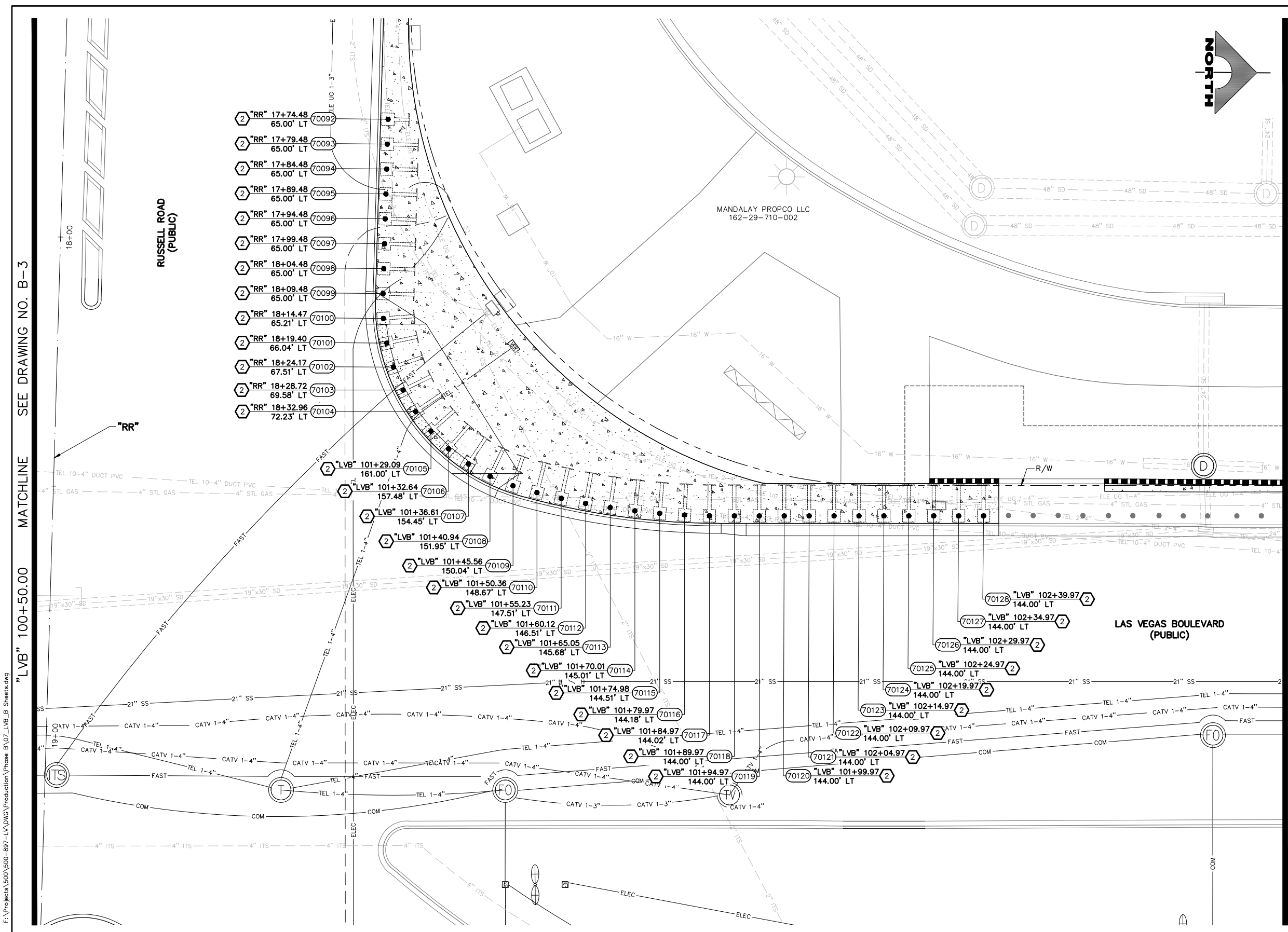
PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **B-3** SHT. 59 OF 159 L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



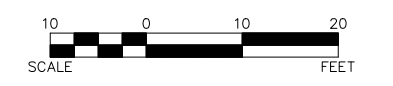
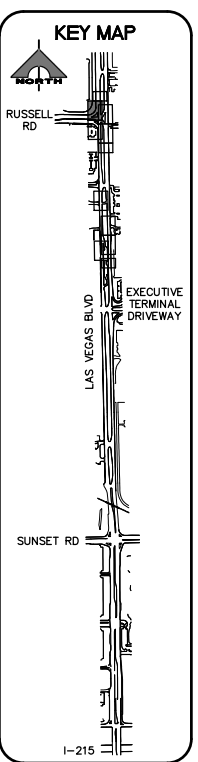
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**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
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 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

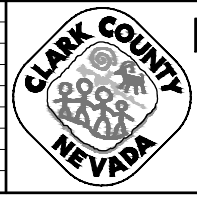


**CALL BEFORE YOU DIG**  
 OVEYHEAD  
 1-702-227-2929

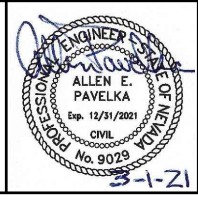
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 FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**BOLLARD PLAN**  
 "LVB" 100+50.00 TO "LVB" 103+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

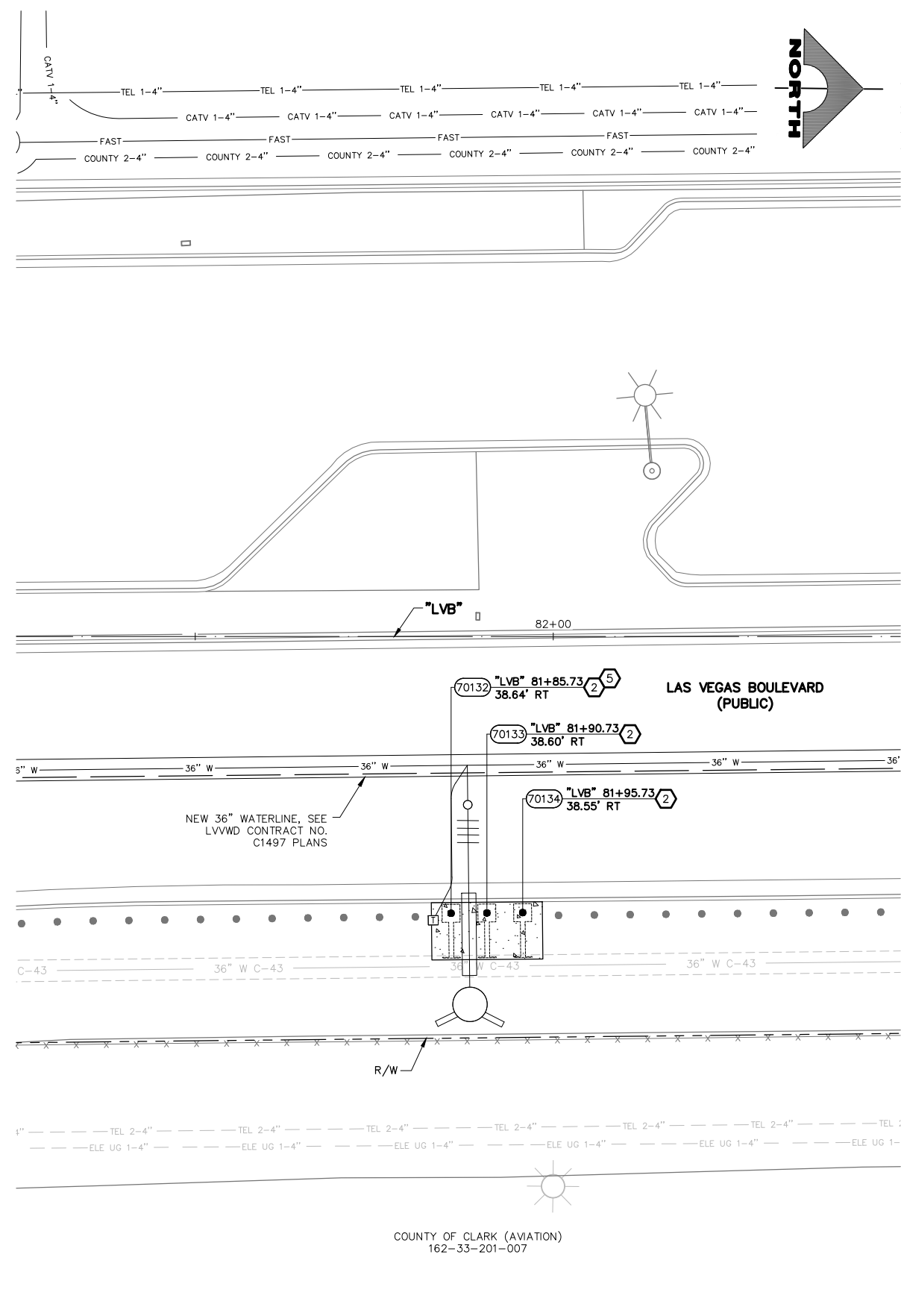
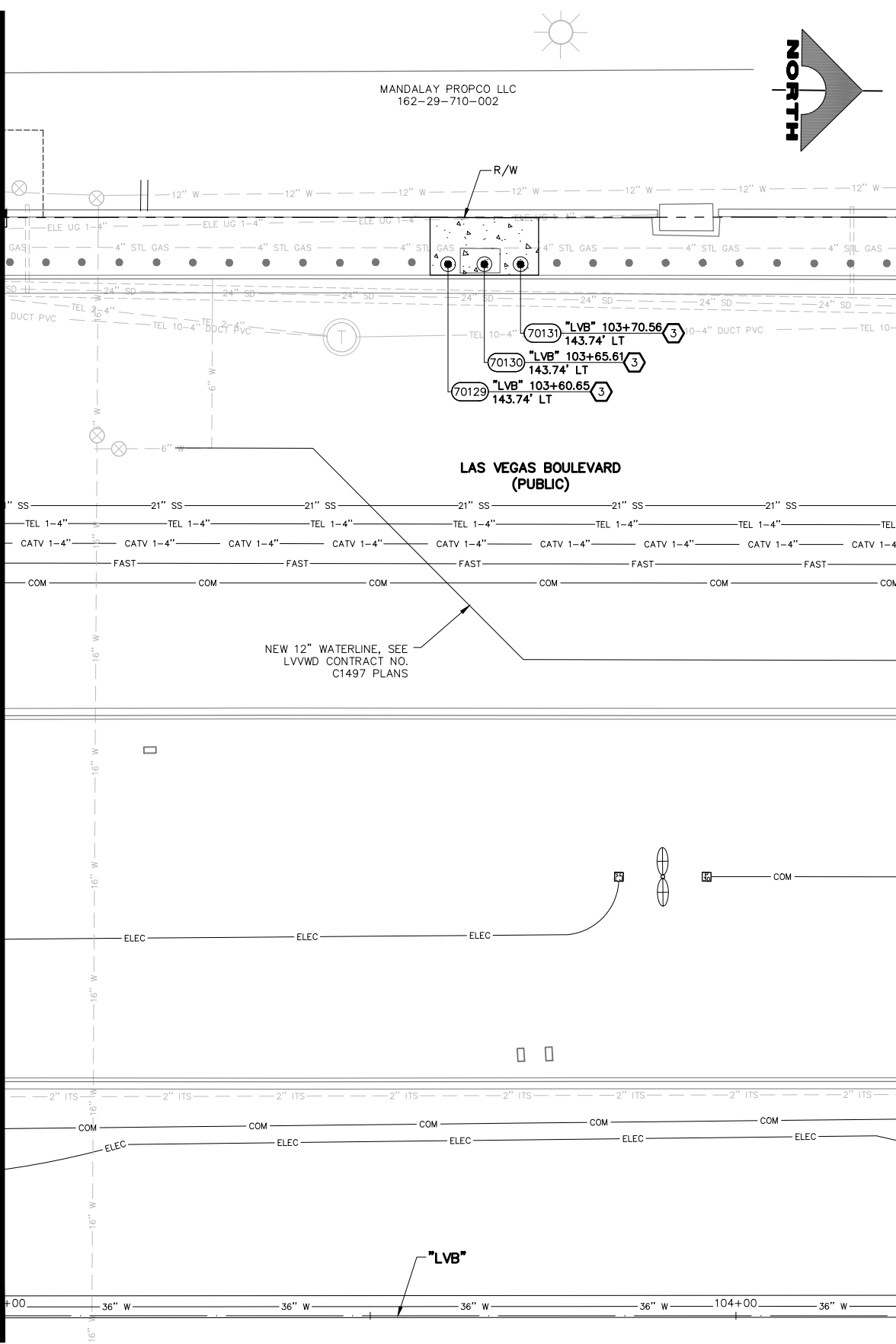


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>B-4</b>
VERT: NONE	SHT. 60 OF 159
FIELD BOOK	L-2272

"LVB" 103+00.00 MATCHLINE SEE DRAWING NO. B-4



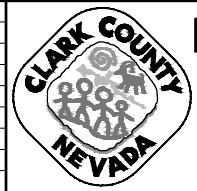
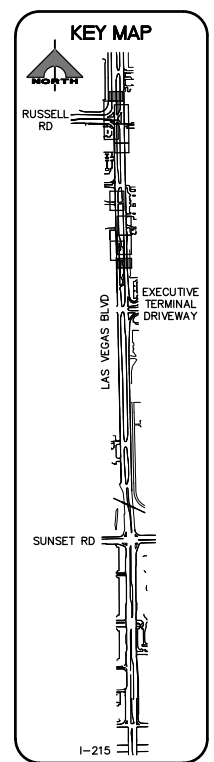
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**APPROVED FOR CONSTRUCTION**

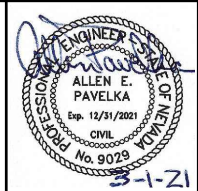
SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**BOLLARD PLAN**  
 "LVB" 81+25.00 TO "LVB" 82+50.00 & "LVB" 103+00.00 TO "LVB" 104+25.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

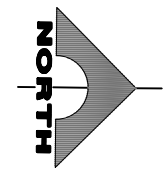
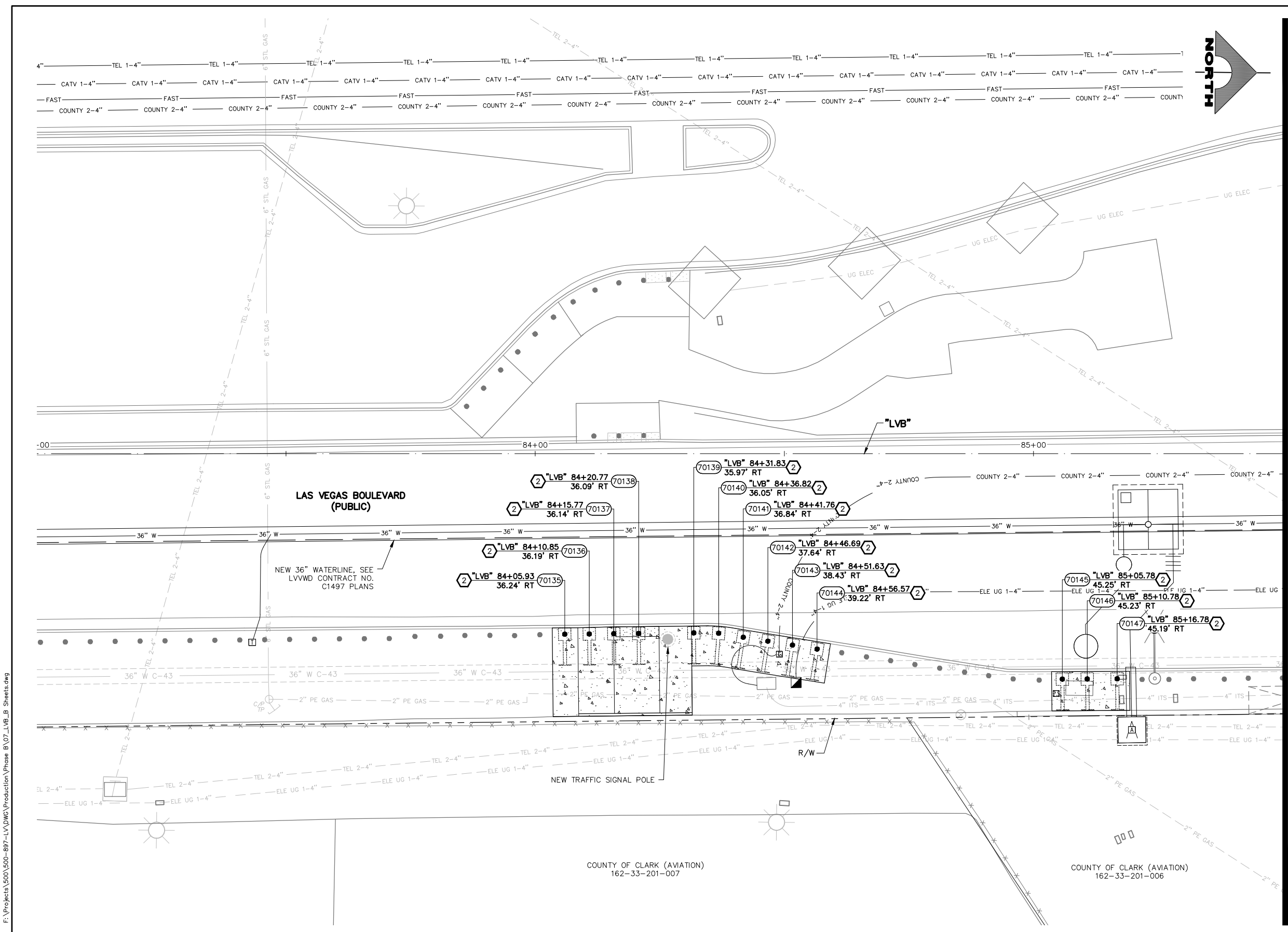
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-5
VERT: NONE	SHT. 61 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





SEE DRAWING NO. B-7 MATCHLINE "LVB" 85+50.00

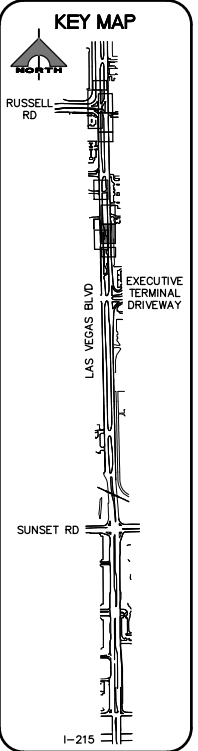
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**APPROVED FOR CONSTRUCTION**

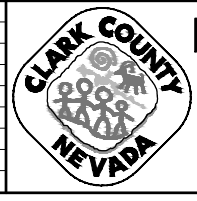
SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



REV. NO.	DATE	DESCRIPTION	APPROVED

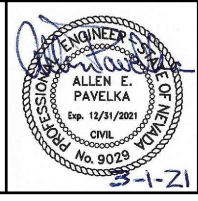


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**BOLLARD PLAN**

**"LVB" 83+00.00 TO "LVB" 85+50.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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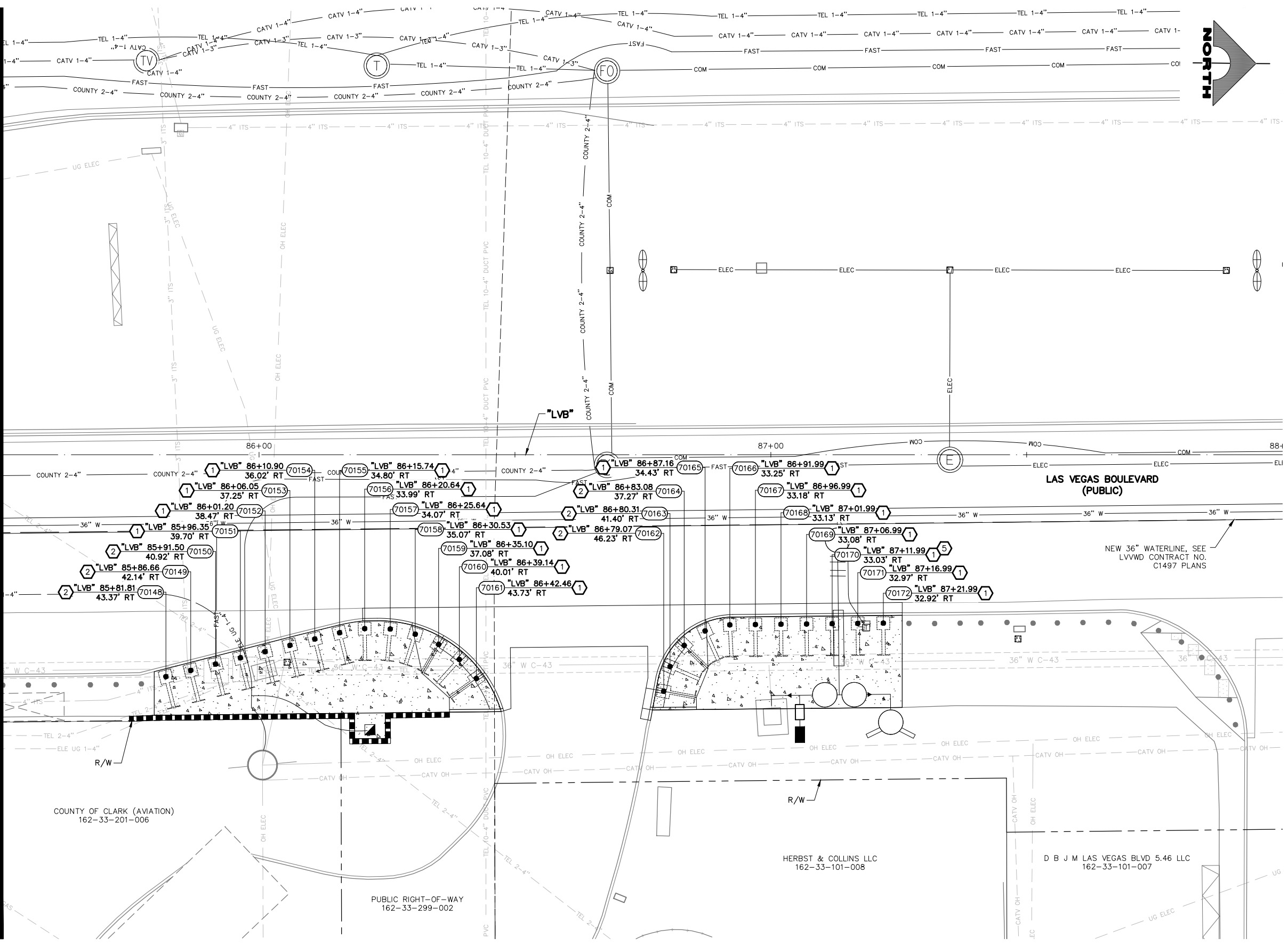
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DRAWING NO. **B-6** SHT. 62 OF 159 L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

02-26-21 09:30:30 F:\Projects\500\500-897-LV\DWG\Production\Phase B\07\_LVB\_B\_Sheets.dwg  
 "LVB" 85+50.00 MATCHLINE SEE DRAWING NO. B-6



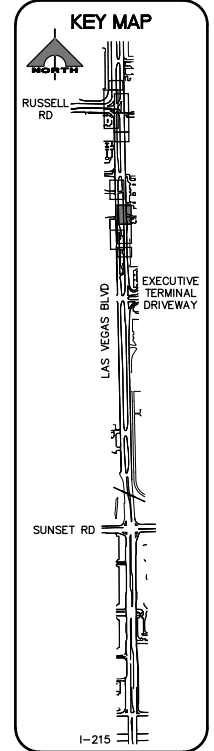
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**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS  
 PRIOR TO CONSTRUCTION.



SCALE FEET

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**BOLLARD PLAN**

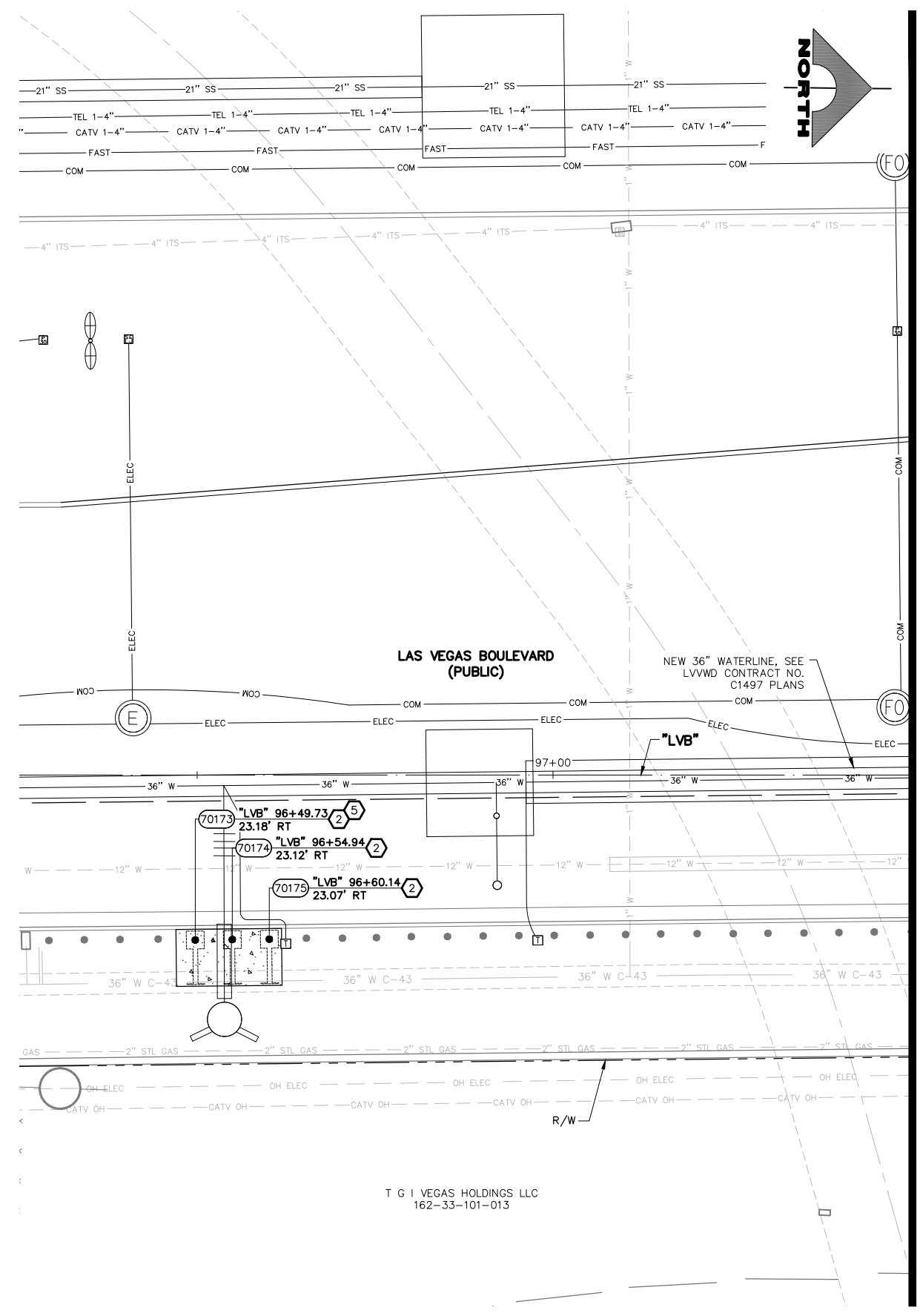
**"LVB" 85+50.00 TO "LVB" 88+00.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

PROJECT No: 500-897-LV	DRAWN BY: DSH	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: AEP	HORIZ: AS SHOWN	<b>B-7</b>
APPROVED BY: _____		VERT: NONE	SHT. 63 OF 159
		FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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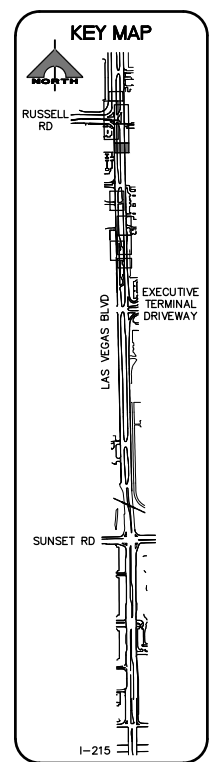
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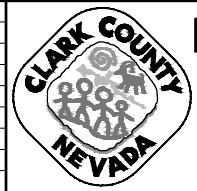
SIGNED BY MIKE DISHARI ON 12/30/20  
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 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

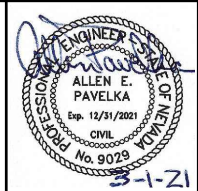
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



T G I VEGAS HOLDINGS LLC  
162-33-101-013



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**BOLLARD PLAN**  
**"LVB" 96+25.00 TO "LVB" 97+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-8
VERT: NONE	SHT. 64 OF 159
FIELD BOOK	L-2272

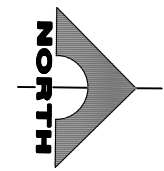
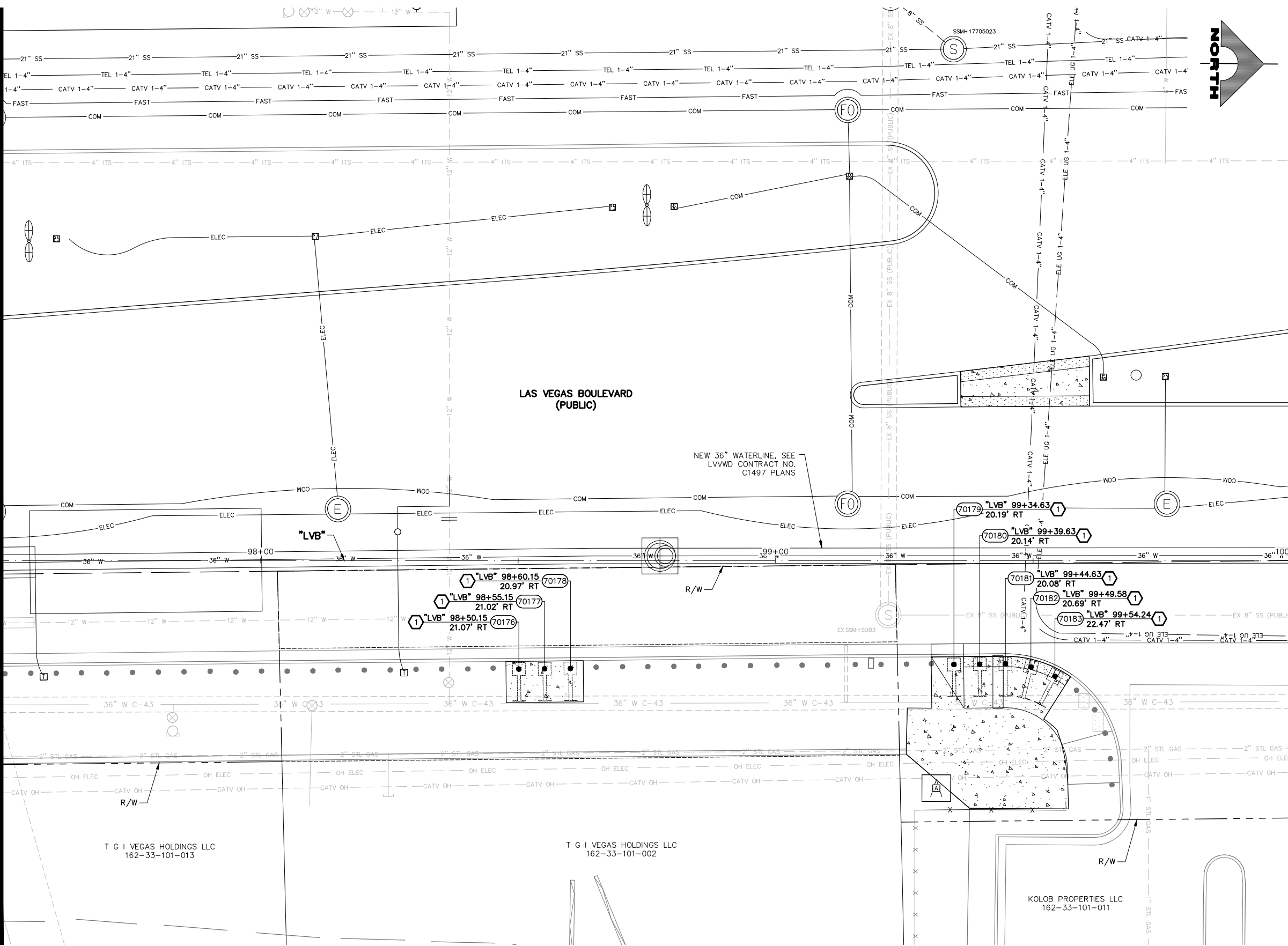
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



MATCHLINE SEE DRAWING NO. B-8

MATCHLINE SEE DRAWING NO. B-10



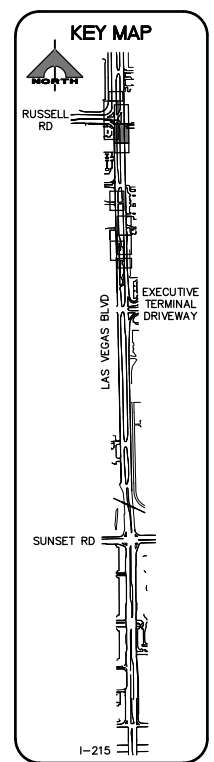
- BOLLARD NOTES**
- 1 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 2 INSTALL 48-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 3 INSTALL DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 4 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 5 INSTALL TYPE IV/VI BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 6 PROTECT-IN-PLACE
- NOTES**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

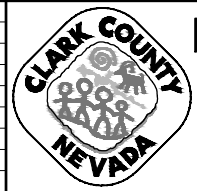
FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

**Call 811**

1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

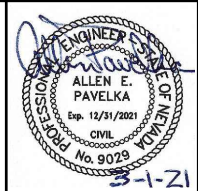


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**BOLLARD PLAN**

**"LVB" 97+50.00 TO "LVB" 100+00.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

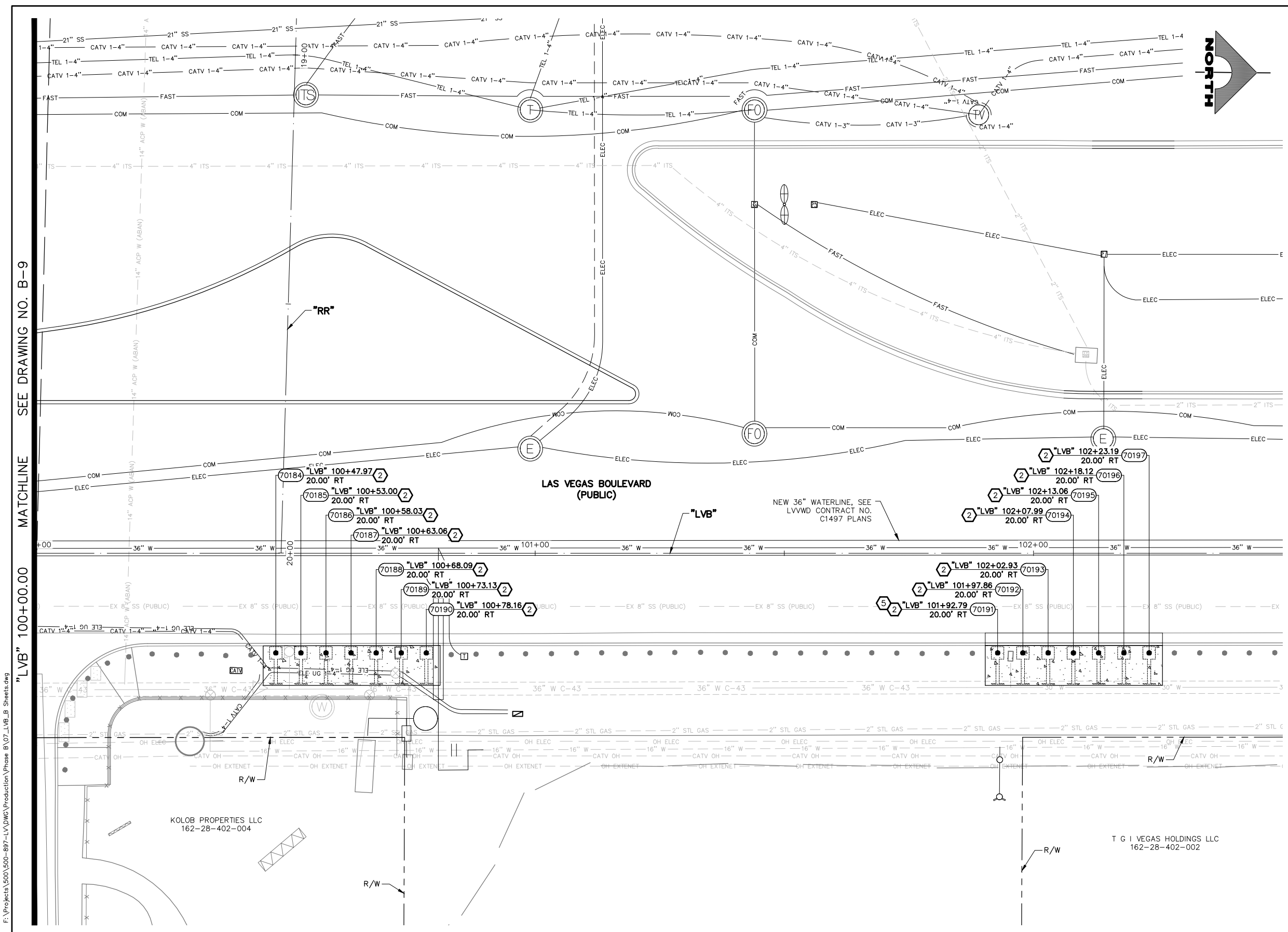


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>B-9</b>
VERT: NONE	SHT. 65 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



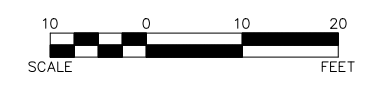
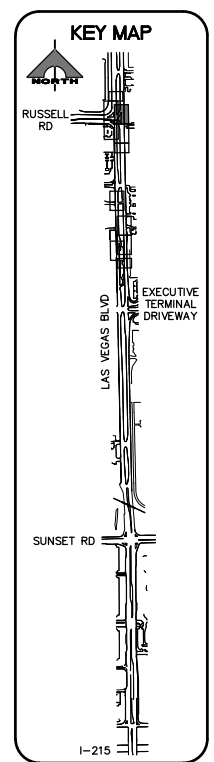
- BOLLARD NOTES**
- 1 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
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  - 3 INSTALL DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 4 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 5 INSTALL TYPE IV/VI BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 6 PROTECT-IN-PLACE
- NOTES**
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**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**BOLLARD PLAN**

**"LVB" 100+00.00 TO "LVB" 102+50.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

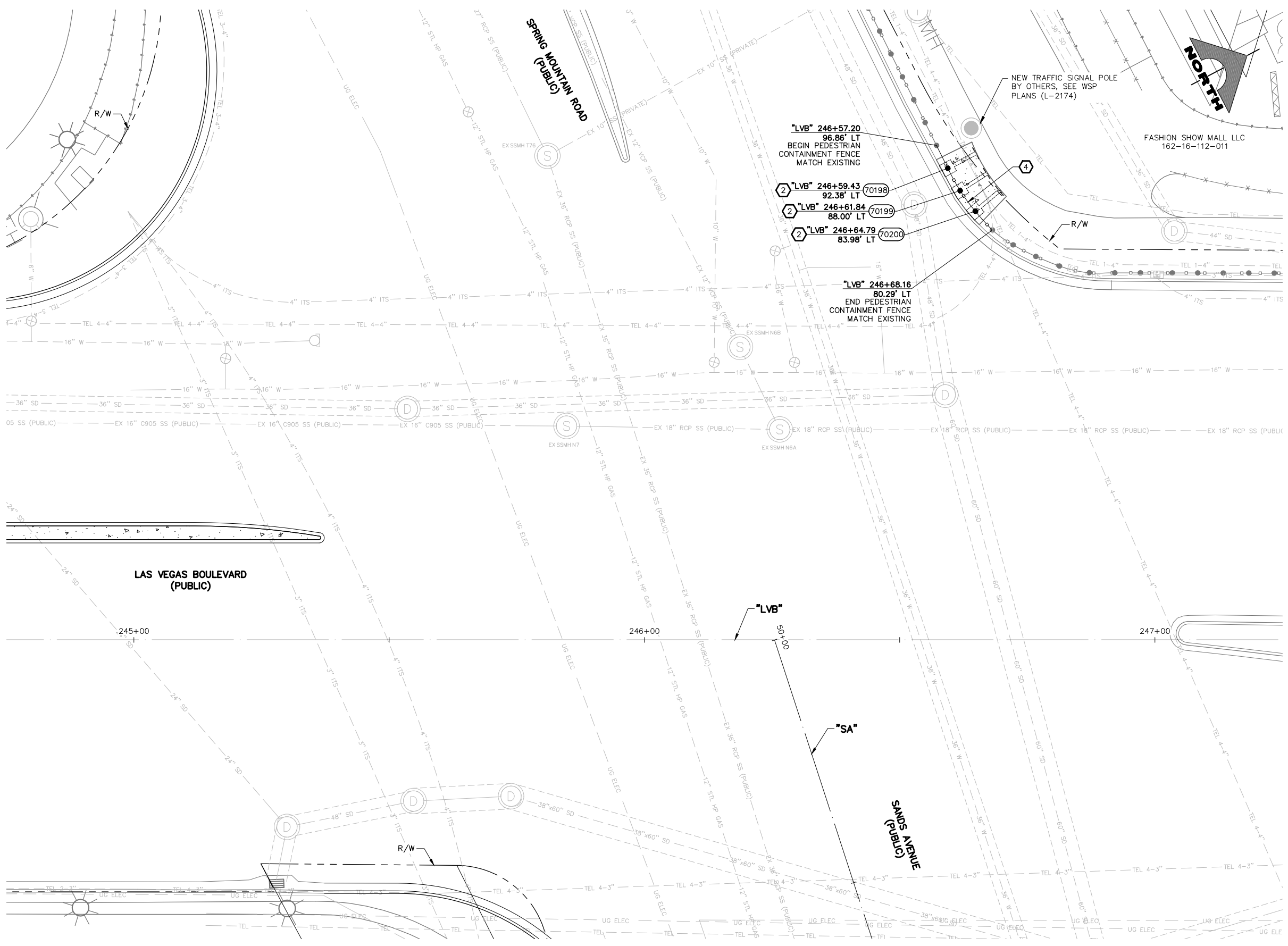
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **B-10**  
 SH. 66 OF 159  
 L-2272

dhines 02-26-21 09:31:14 F:\Projects\500-897-LV\DWG\Production\Phase B\07\_LVB\_B Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



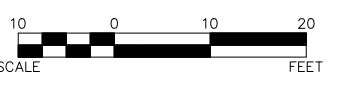
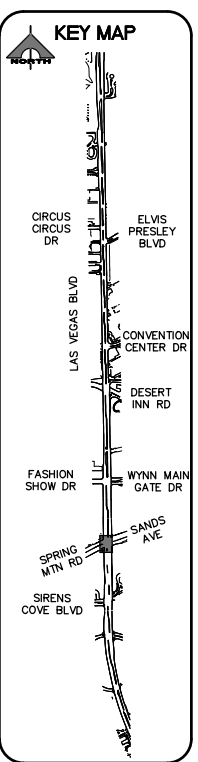
- BOLLARD NOTES**
- 1 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 2 INSTALL 48-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 3 INSTALL DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 4 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 5 INSTALL TYPE IV/VI BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 6 PROTECT-IN-PLACE
- NOTES**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**SOUTHWEST GAS VALVE NOTE**

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

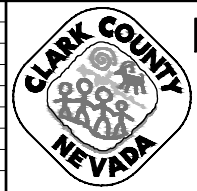


**CALL BEFORE YOU DIG**  
 AVOID HITTING OVERHEAD POWER LINES: IT'S COSTLY.  
 CALL BEFORE YOU DO OVERHEAD  
 1-702-227-2929

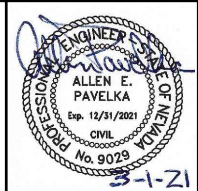
**FAST**  
 Call before you UnderGround.  
 1-702-432-5300  
 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
 Call 811  
 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**BOLLARD PLAN**  
 "LVB" 244+75.00 TO "LVB" 247+25.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

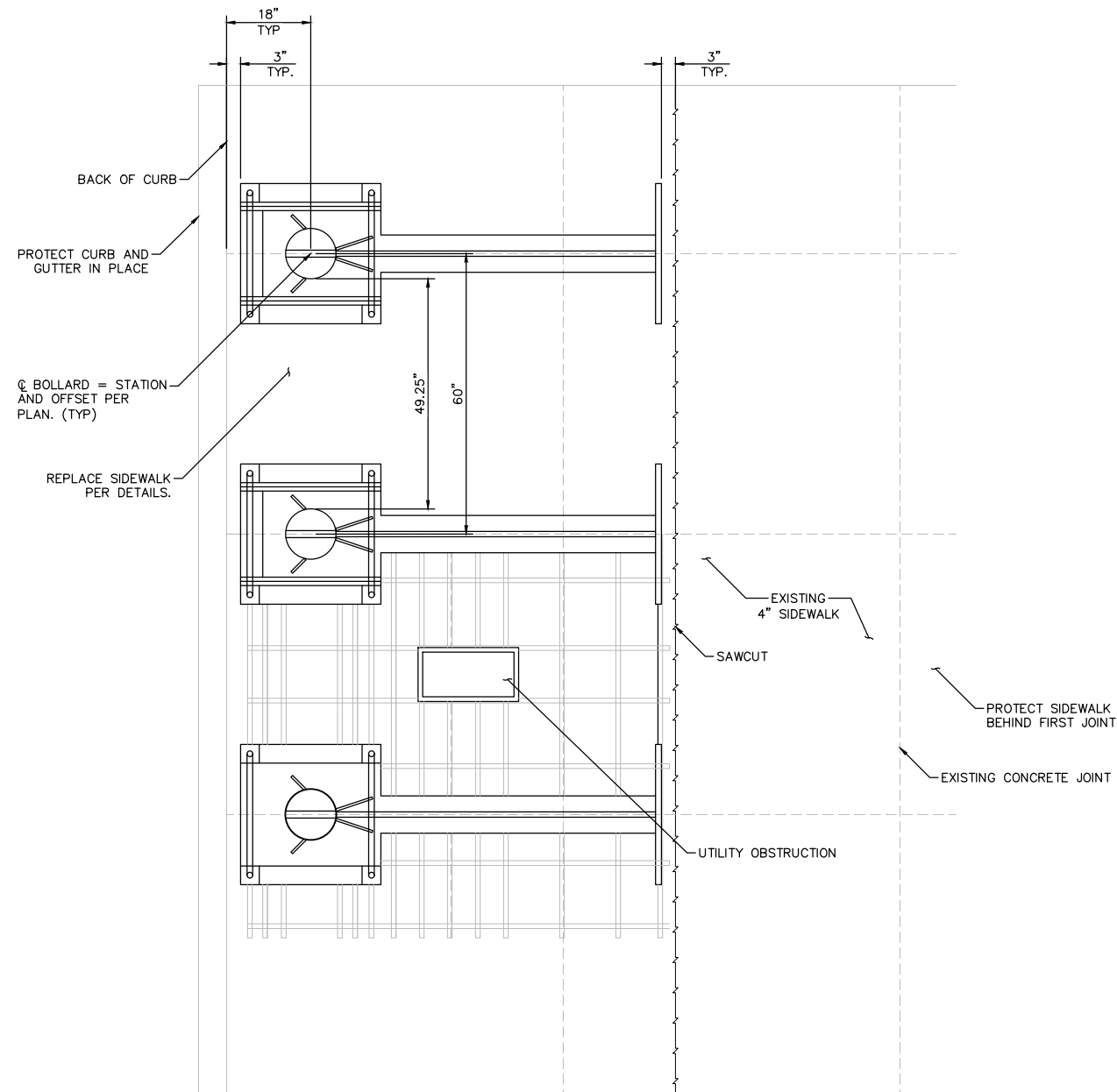
SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-11
VERT: NONE	SHT. 67 OF 159
FIELD BOOK	L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

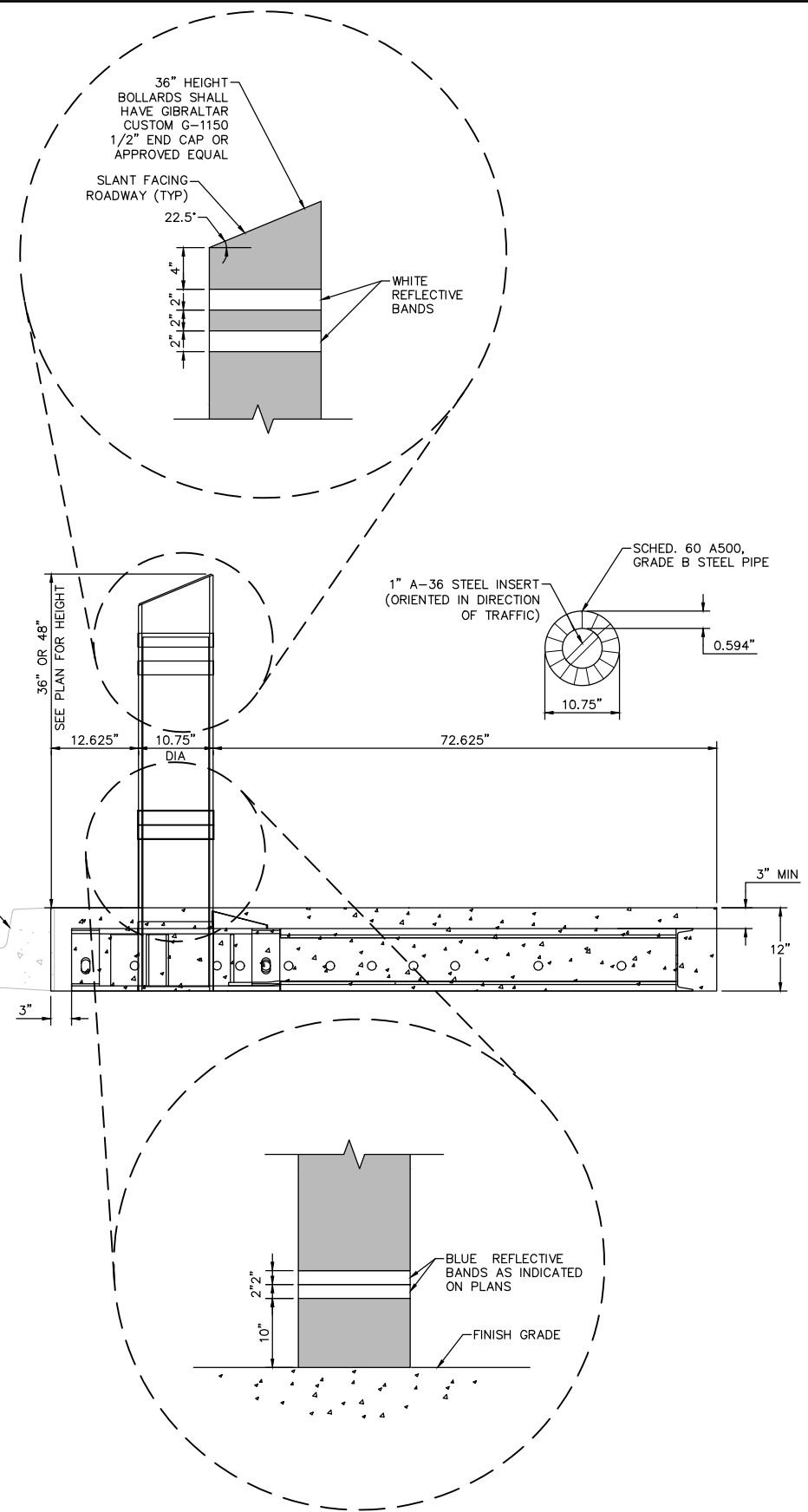


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**NOTES:**

1. EACH BOLLARD SHALL BE POWDER COATED, COLOR - RAL6009 METALLIC.
2. WHITE AND BLUE REFLECTIVE BANDS SHALL BE ASTM D4956 TYPE IV/VI MICROPRISMATIC TAPE.
3. CAP STYLE SHALL BE SLOPED FACE OR APPROVED EQUAL. 36" HEIGHT BOLLARDS SHALL HAVE GIBRALTAR CUSTOM G-1150 1/2" END CAP OR APPROVED EQUAL.
4. SEE DETAIL B FOR ADDITIONAL BOLLARD FRAME AND CONNECTION DETAILS.
5. ALL CONCRETE SHALL BE PER SPECIFICATION: MINIMUM 5000 PSI WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.45.
6. ALL REBAR IS #7 AND SHOULD HAVE 3" MINIMUM CLEAR COVER.
7. EXCAVATION, PREPARATION OF SUBGRADE AND COMPACTION SHALL BE PER SECTION 206 OF THE SPECIAL PROVISIONS.



SHALLOW MOUNT BOLLARD  
TYPICAL INSTALLATION AND FINISH

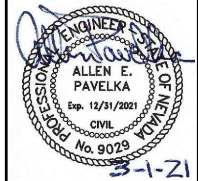
A  
DT-1



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**CONSTRUCTION DETAILS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

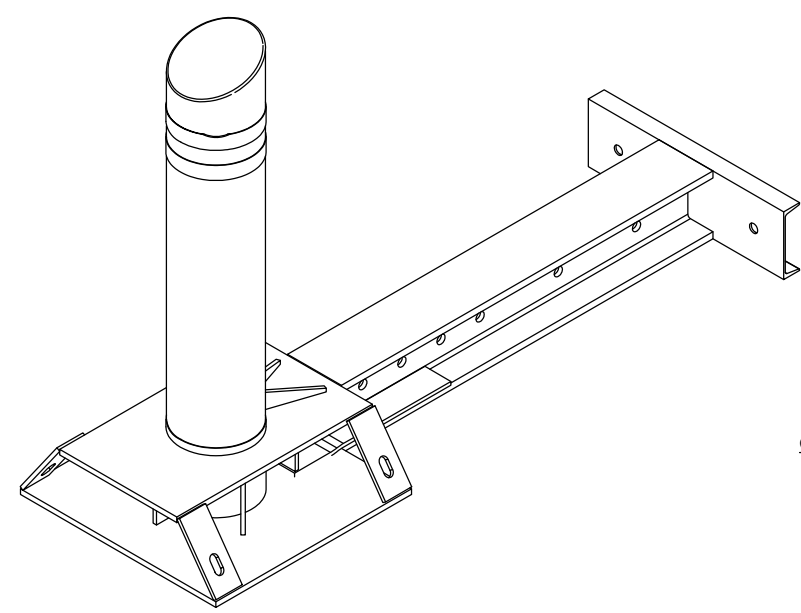


PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>DT-1</b>
VERT: NONE	SHT. 68 OF 159
FIELD BOOK	L-2272

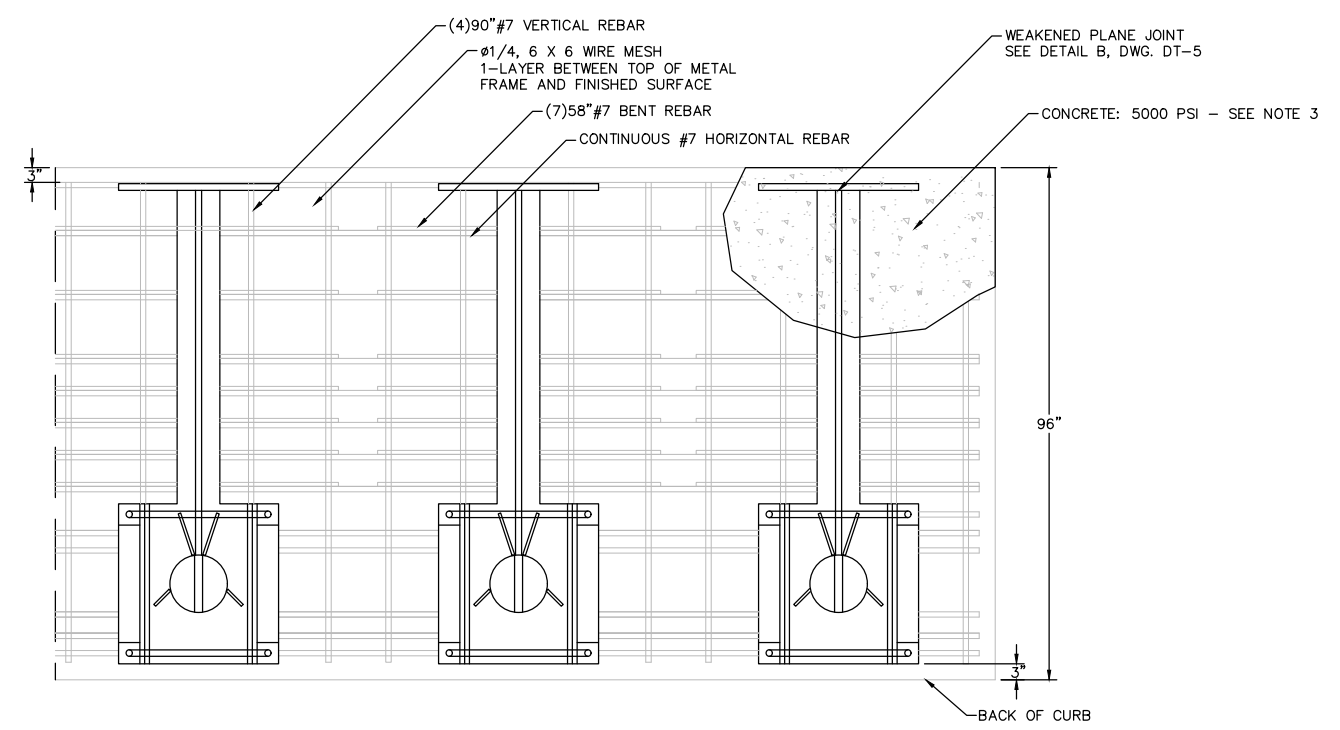
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

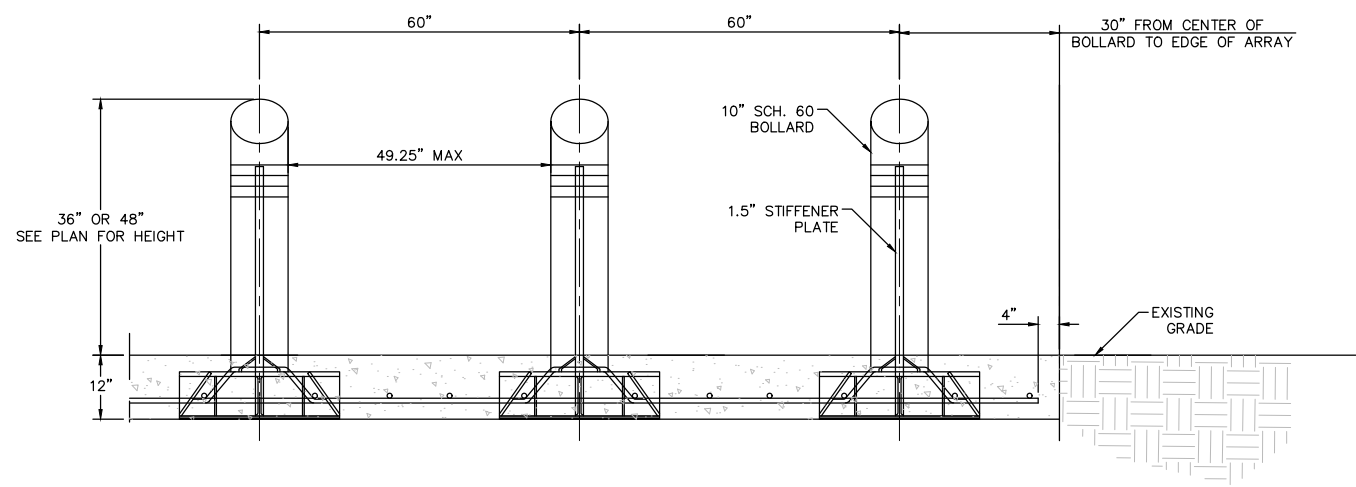


CAP STYLE

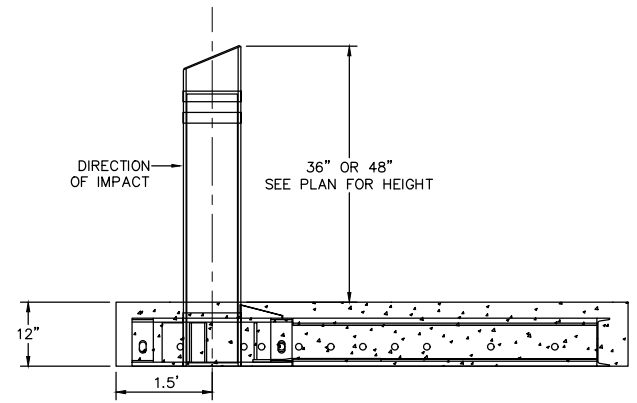
CAP SHALL BE MONOLITHIC WITH BOLLARD. 36" HEIGHT BOLLARDS SHALL HAVE GIBRALTAR CUSTOM G-1150 1/2" END CAP OR APPROVED EQUAL.



PLAN VIEW



ELEVATION VIEW



SIDE ELEVATION VIEW

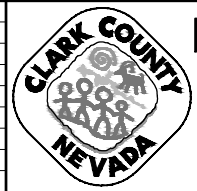
- NOTES:
1. THE SHALLOW MOUNT DESIGN AS DETAILED ON THIS PLAN SHEET MEETS THE CRASH RATED REQUIREMENTS OF AN M50 P1 RATING. ALL APPROVED EQUAL SUBSTITUTIONS MUST MEET THESE REQUIREMENTS.
  2. CONTRACTOR SHALL INSTALL BOLLARDS PER DIMENSIONS AND INSTALLATION REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS.
  3. ALL FINISHED CONCRETE SIDEWALKS SHALL MATCH EXISTING ADJACENT SIDEWALKS INCLUDING COLOR, TEXTURE, JOINTING THICKNESS, AND FINISH.
  4. ALL CONCRETE SHALL BE PER SPECIFICATION: MINIMUM 5000 PSI WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.45.
  5. CONTINUE BOLLARD AND REBAR PATTERN FOR LONGER ARRAY INSTALLATION.

SHALLOW MOUNT BOLLARD  
INSTALLATION DETAILS

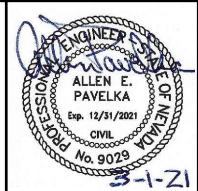


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REV. NO.	DATE	DESCRIPTION	APPROVED



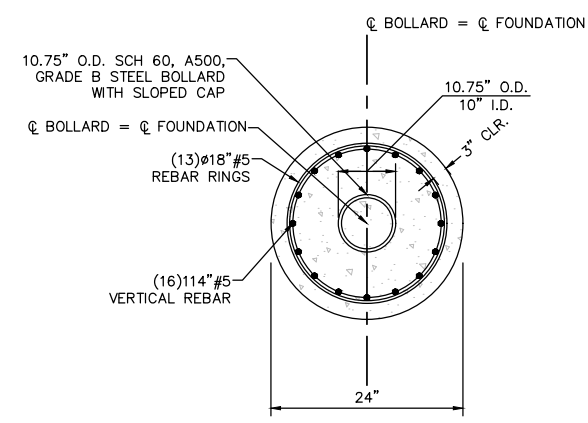
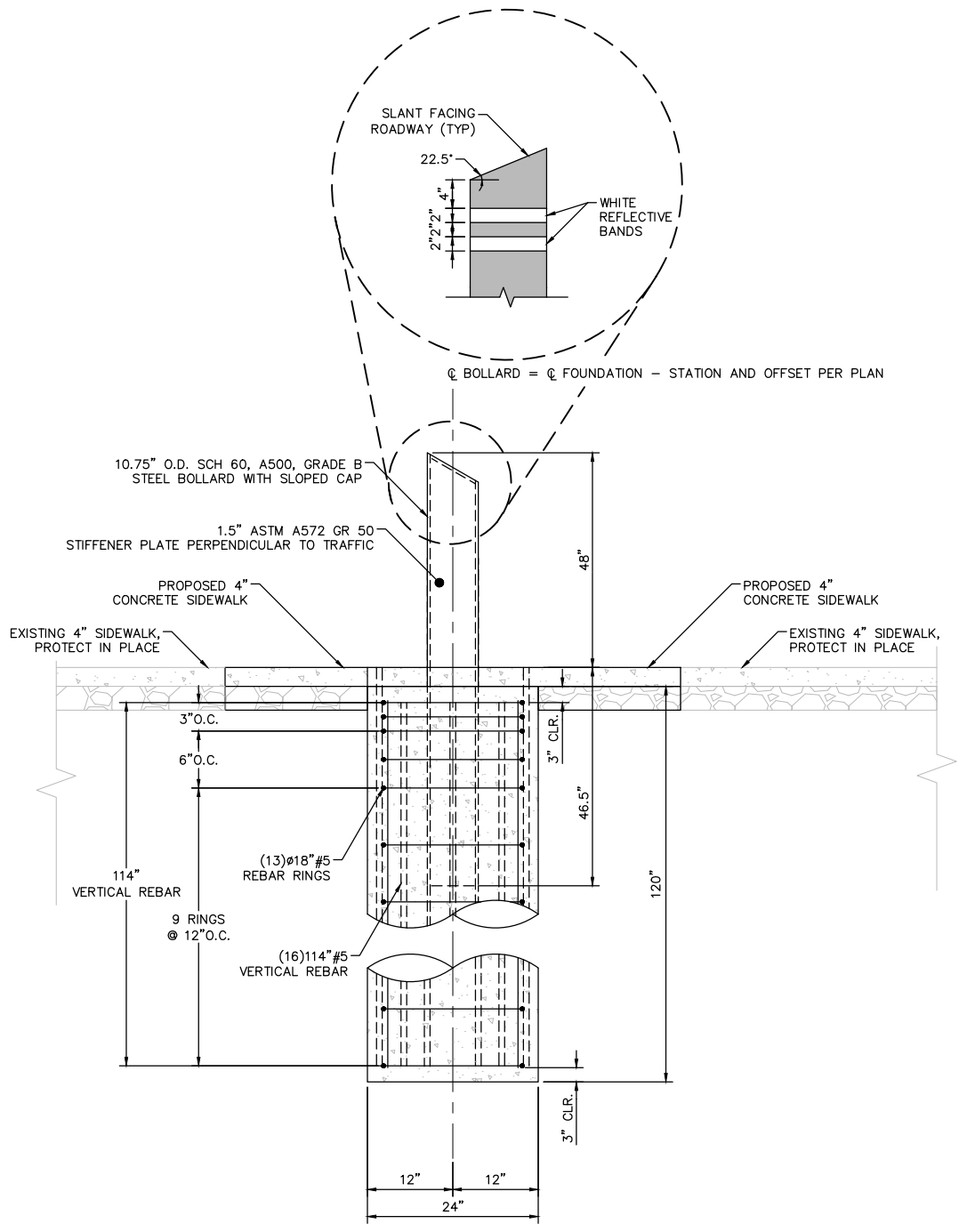
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
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SCALE	DRAWING NO.
HORIZ: NONE	DT-2
VERT: NONE	SHT. 69 OF 159
FIELD BOOK	L-2272

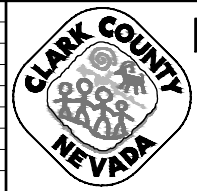
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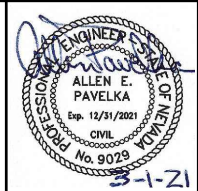
**NOTES:**  
 1. THE DRILLED FOOTING DETAIL FOR A SINGLE FIXED BOLLARD AS DETAILED ON THIS SHEET MEETS THE ENGINEERING RATED REQUIREMENTS OF AN M50 P1. ALL APPROVED EQUAL SUBSTITUTIONS MUST MEET THESE REQUIREMENTS.

DRILLED FOOTING BOLLARD  
 INSTALLATION DETAILS

A  
 DT-3



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 CONSTRUCTION DETAILS  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



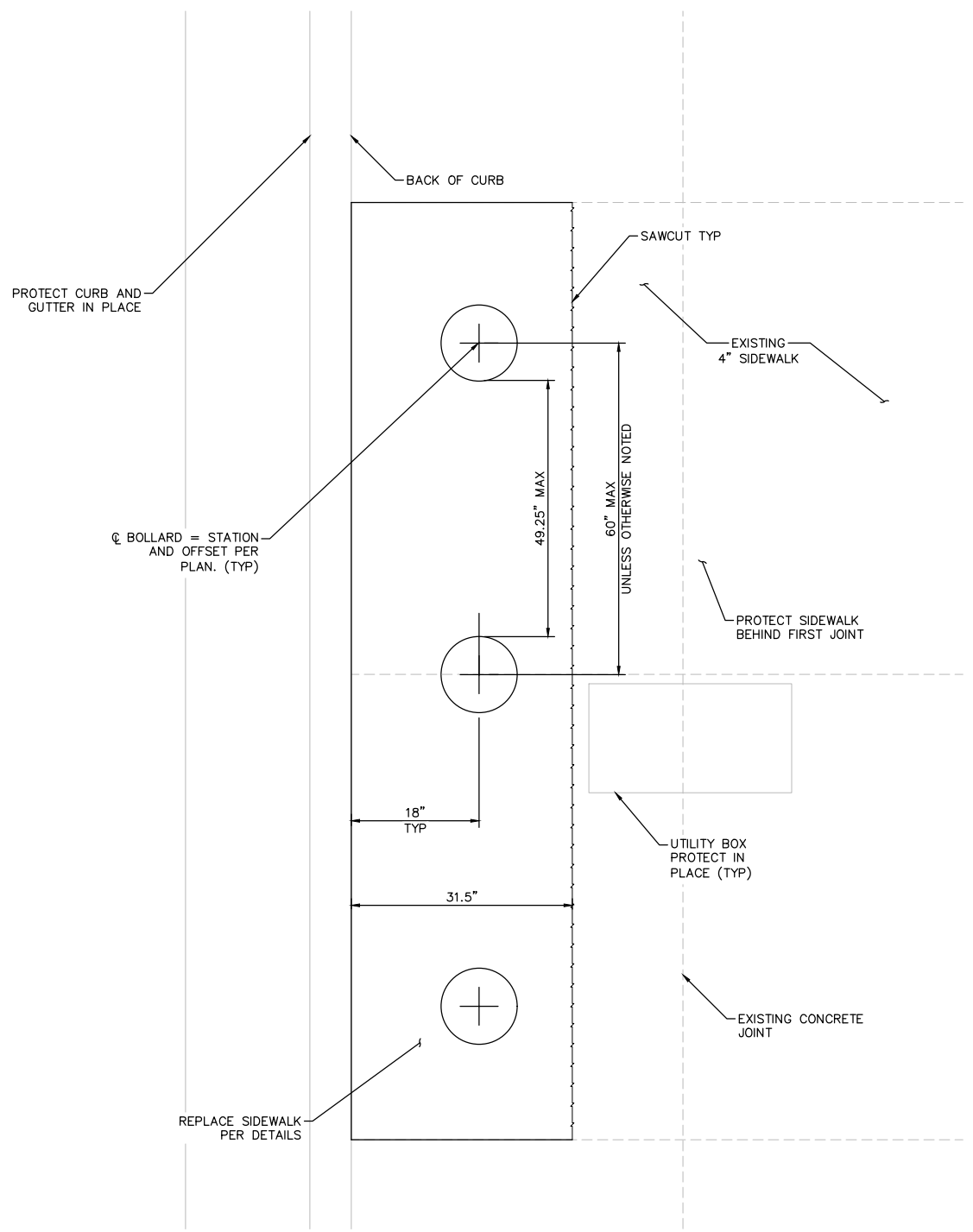
PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 F: 702.804.2299  
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SCALE	DRAWING NO.
HORIZ: NONE	DT-3
VERT: NONE	SHT. 70 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

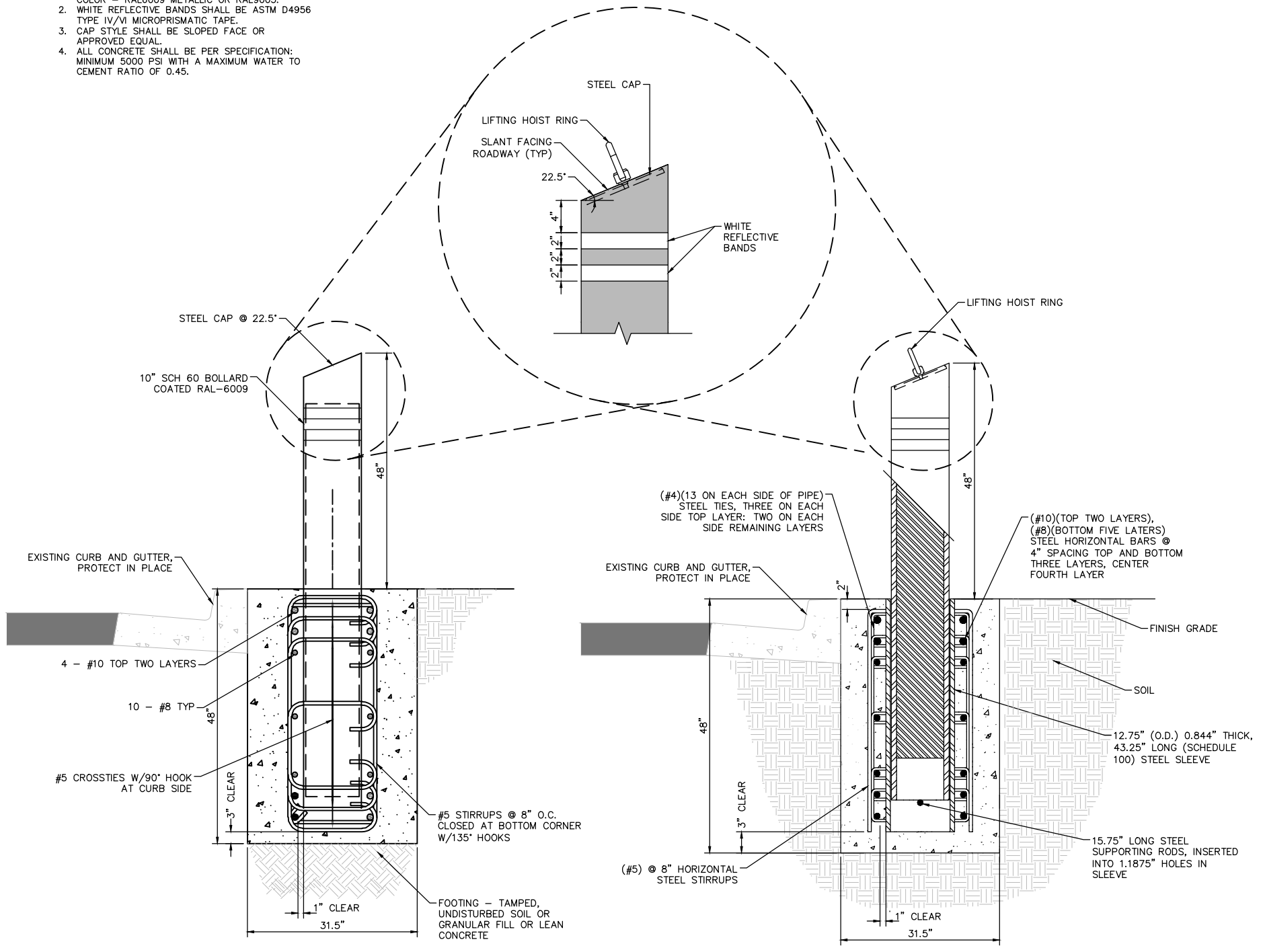
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20





TRENCH AND REMOVABLE BOLLARD PLAN VIEW

- NOTES:**
1. EACH BOLLARD SHALL BE POWDER COATED, COLOR - RAL6009 METALLIC OR RAL9005.
  2. WHITE REFLECTIVE BANDS SHALL BE ASTM D4956 TYPE IV/VI MICROPRISMATIC TAPE.
  3. CAP STYLE SHALL BE SLOPED FACE OR APPROVED EQUAL.
  4. ALL CONCRETE SHALL BE PER SPECIFICATION: MINIMUM 5000 PSI WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.45.



TRENCH BOLLARD  
TYPICAL INSTALLATION AND FINISH

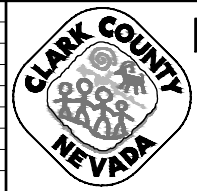
B  
DT-4

REMOVABLE BOLLARD  
TYPICAL INSTALLATION AND FINISH

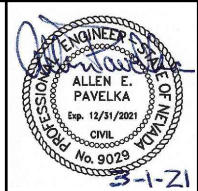
A  
DT-4

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REV. NO.	DATE	DESCRIPTION	APPROVED

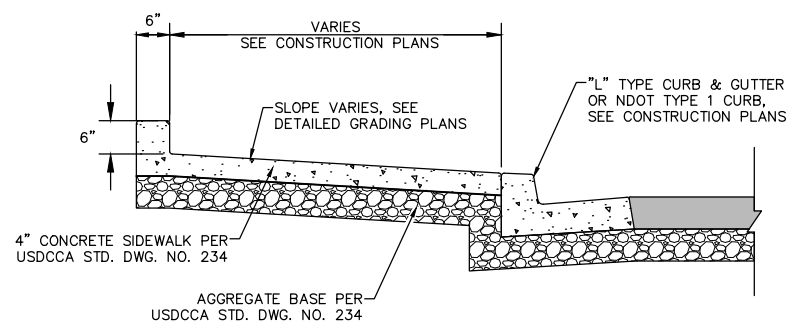


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



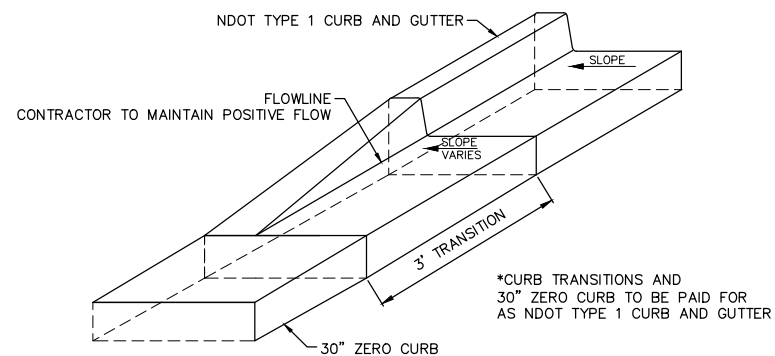
PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
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SCALE	DRAWING NO.
HORIZ: NONE	DT-4
VERT: NONE	SHT. 71 OF 159
FIELD BOOK	L-2272

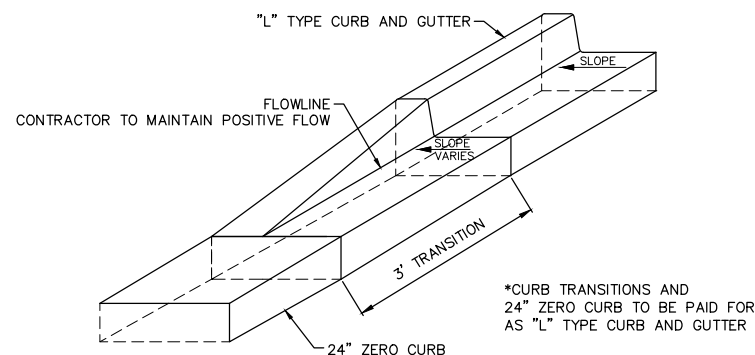


MONOLITHIC CURB DETAIL

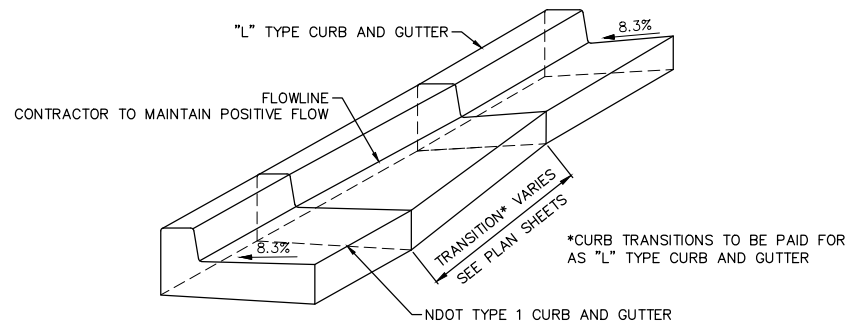
E  
DT-5



NDOT TYPE 1 CURB AND GUTTER TO 30" ZERO CURB



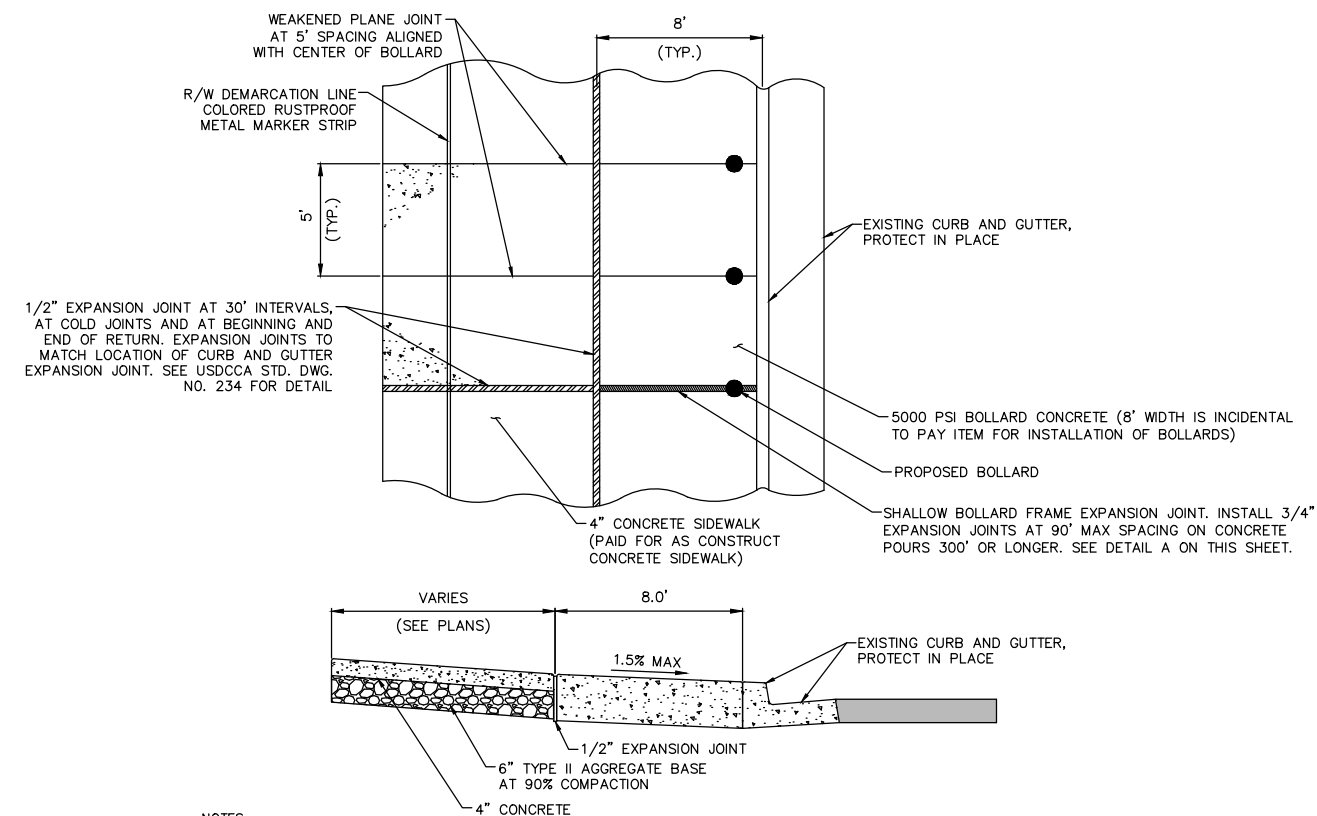
"L" TYPE CURB AND GUTTER TO ZERO CURB



"L" TYPE CURB AND GUTTER TO NDOT TYPE 1 CURB AND GUTTER

CURB TRANSITION DETAILS

C  
DT-5

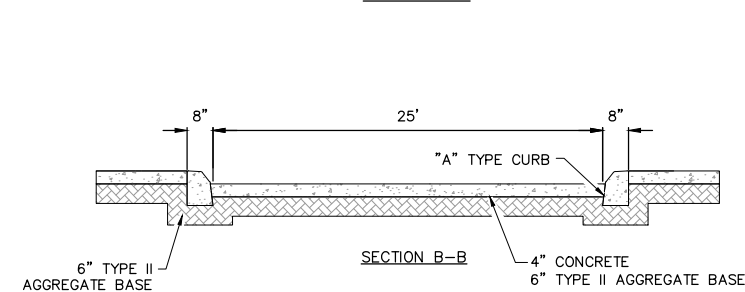
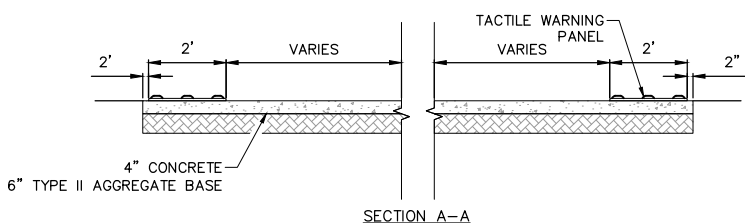


NOTES:

- ON ALL CURB RETURNS A 1/2" EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.
- LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.
- FILL AREAS SHALL BE NATIVE MATERIAL COMPACTED TO 90% OF MAX DENSITY. SUPPLEMENT WITH TYPE II AGGREGATE BASE AS NEEDED.
- PAVEMENT SHALL BE 0" ABOVE PROPOSED CURB AND GUTTER.
- WEAKENED PLANE JOINTS SHALL ALIGN WITH CENTER OF BOLLARD FOR BOTH THE 5000 PSI BOLLARD CONCRETE AND THE 4" CONCRETE SIDEWALK.

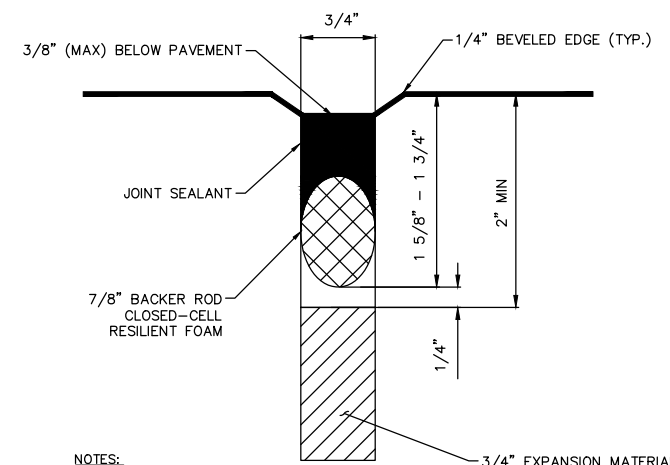
CONCRETE SIDEWALK ADJACENT TO BOLLARD FOUNDATION  
TYPICAL INSTALLATION AND FINISH

B  
DT-5



PEDESTRIAN MEDIAN CROSSING  
NOT TO SCALE

D  
DT-5



NOTES:

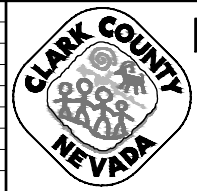
- INSTALL EXPANSION JOINTS AT 90' MAXIMUM SPACING ON CONCRETE POURS 300' OR LONGER.

SHALLOW BOLLARD FRAME EXPANSION JOINT  
TYPICAL INSTALLATION AND FINISH

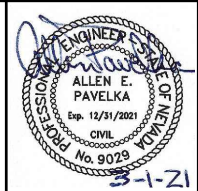
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REV. NO.	DATE	DESCRIPTION	APPROVED



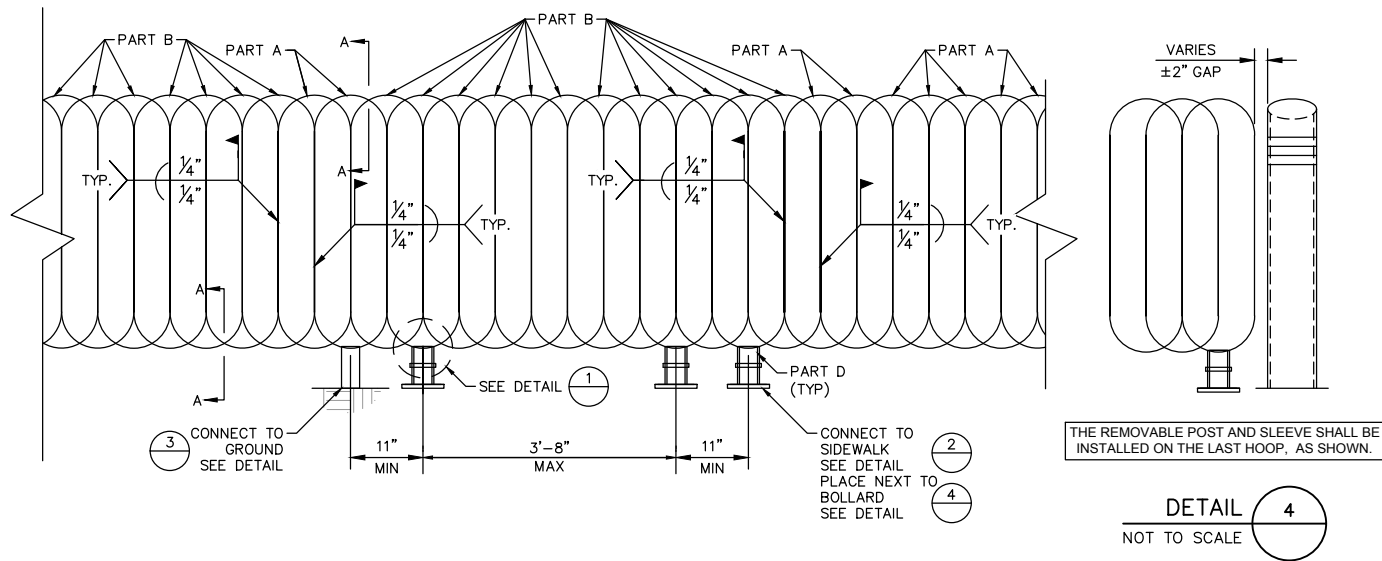
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
CONSTRUCTION DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY:   
GCV ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

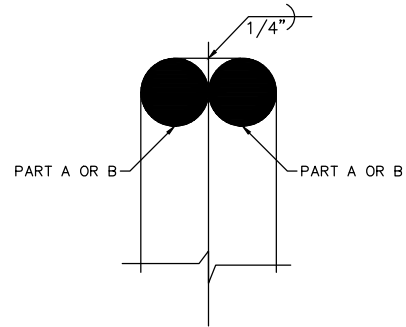
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HORIZ: NONE	DT-5
VERT: NONE	SHT. 72 OF 159
FIELD BOOK	L-2272

BID NO: 605718-20

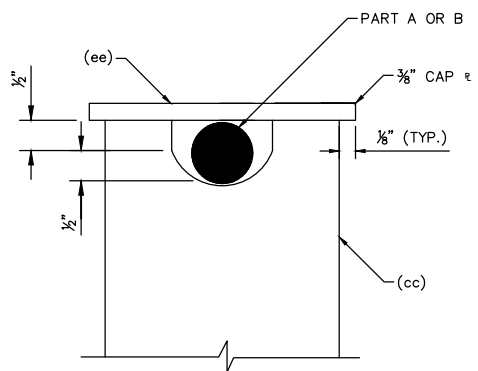


**TYPICAL ASSEMBLY**  
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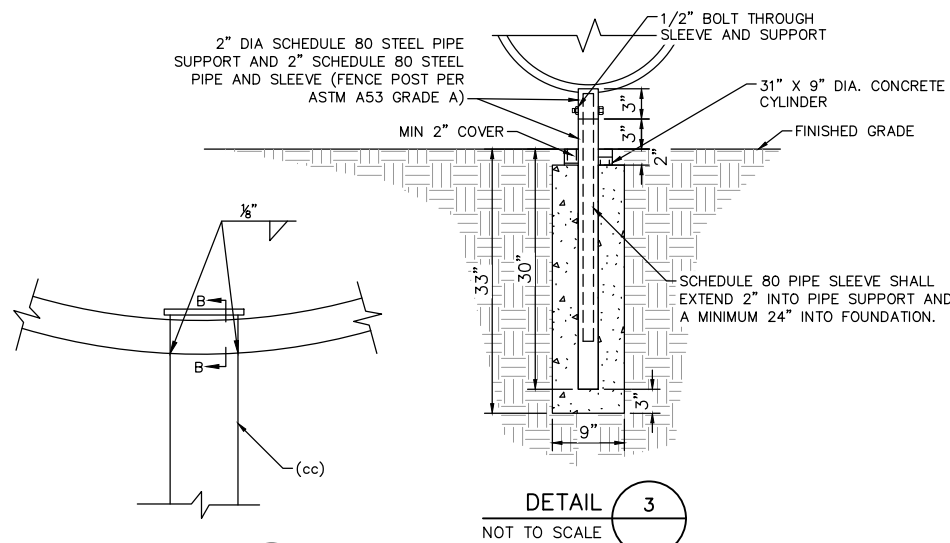
**NOTE**  
PEDESTRIAN CONTAINMENT SYSTEM TO BE POWDER COATED. COLOR TO MATCH EXISTING. CCPW TO APPROVE COLOR.



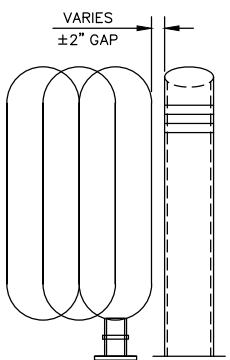
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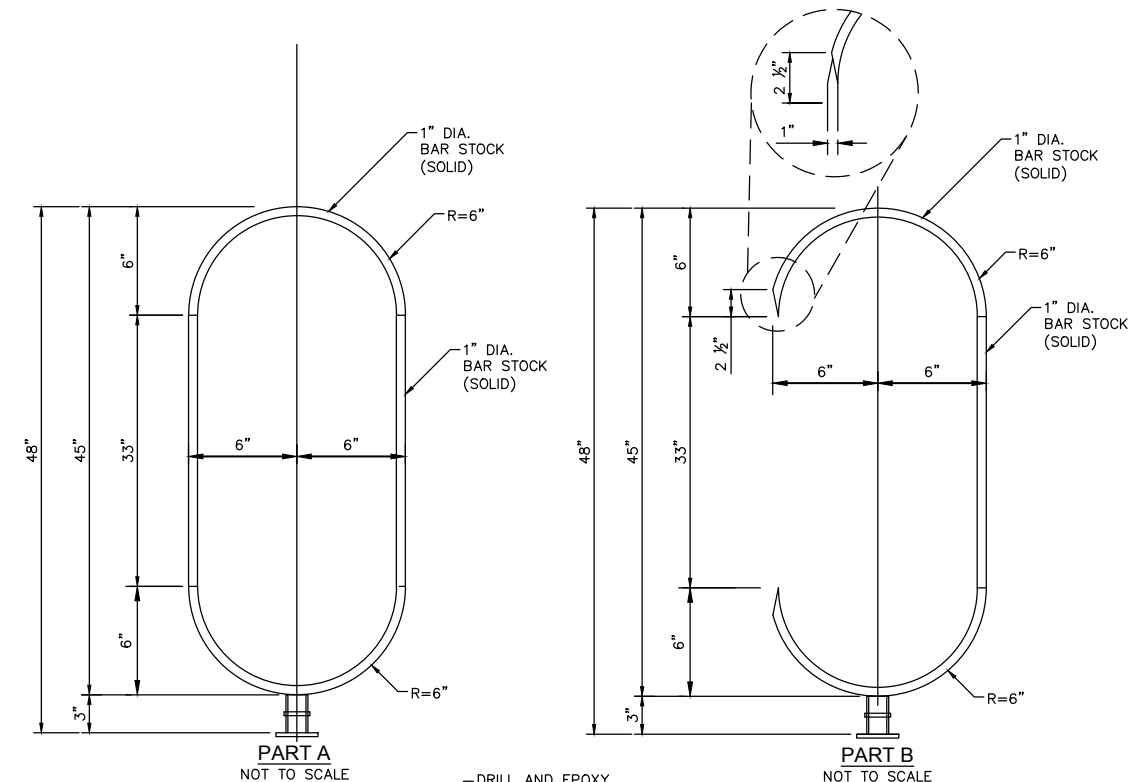
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**DETAIL 3**  
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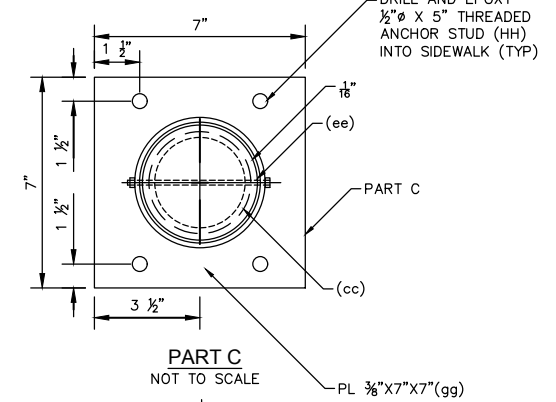


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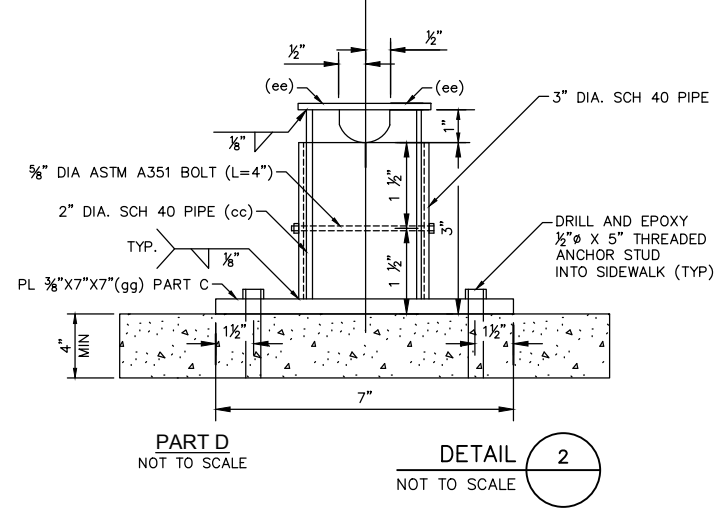


**PART A**  
NOT TO SCALE

**PART B**  
NOT TO SCALE

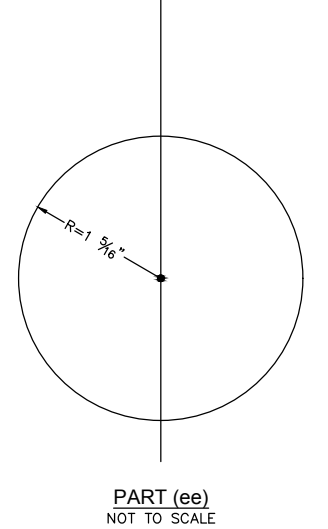


**PART C**  
NOT TO SCALE



**PART D**  
NOT TO SCALE

**DETAIL 2**  
NOT TO SCALE

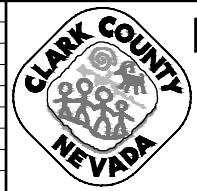


**PART (ee)**  
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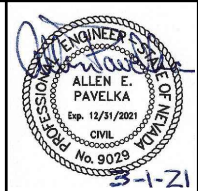
**PEDESTRIAN CONTAINMENT FENCE**  
TYPICAL INSTALLATION AND FINISH

A  
DT-6

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CONSTRUCTION DETAILS**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



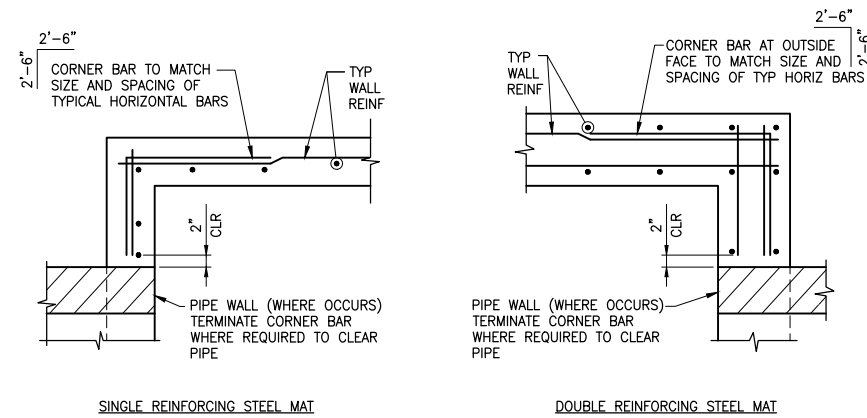
PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
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gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>DT-6</b>
VERT: NONE	SHT. 73 OF 159
FIELD BOOK	L-2272

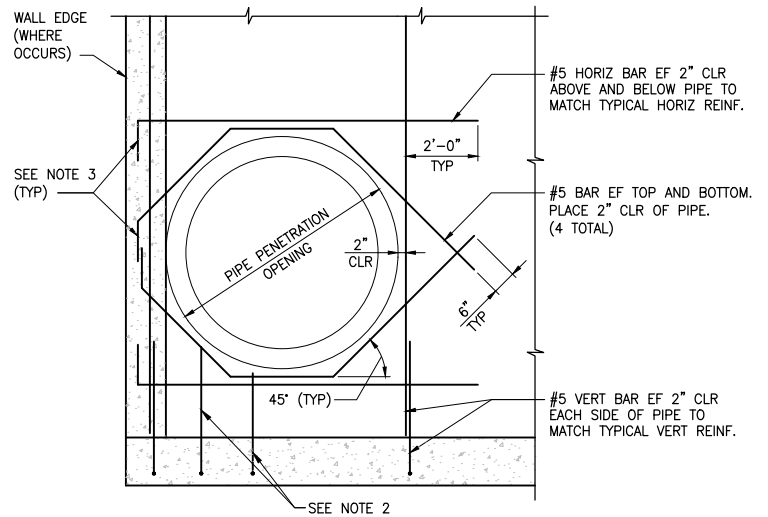
BID NO.: 605718-20





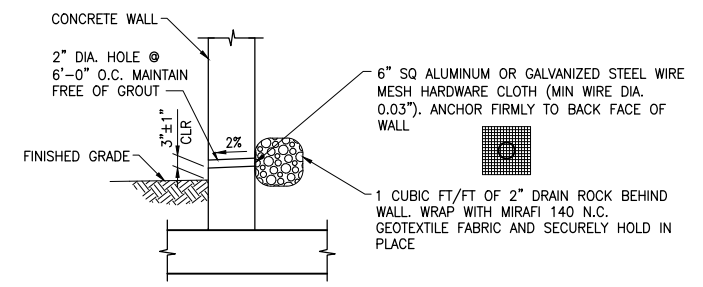


**5 TYP. WALL CORNER DETAIL**  
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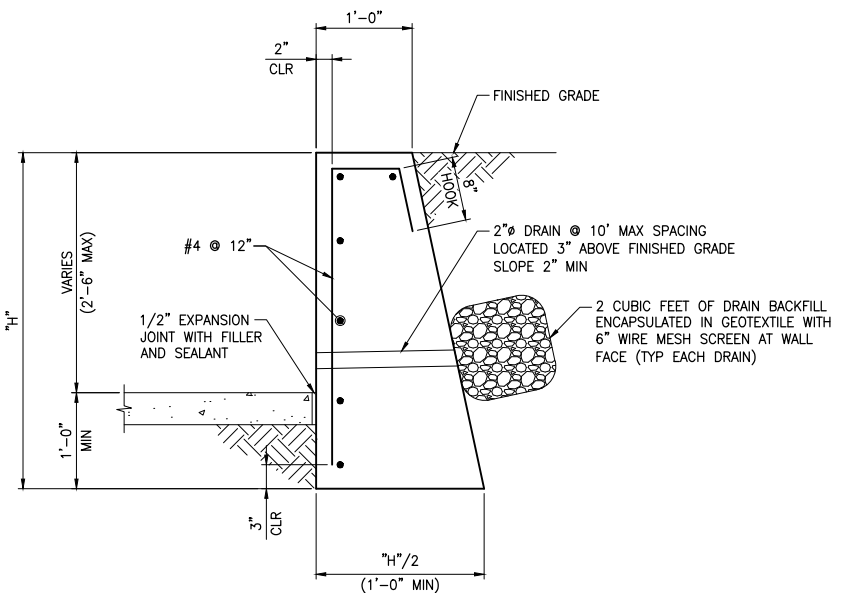


- NOTES:
- TYPICAL WALL REINFORCING NOT SHOWN FOR CLARITY.
  - FIELD CUT TYPICAL WALL REINFORCING 2" CLEAR OF PIPE.
  - IF ADDITIONAL BARS AROUND PENETRATION CANNOT EXTEND BEYOND PIPE AS SHOWN, EXTEND AS FAR AS POSSIBLE AND PROVIDE STANDARD HOOK AT END.

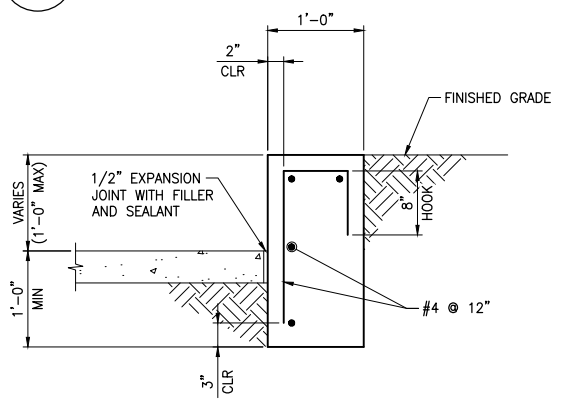
**4 PIPE PENETRATION DETAIL**  
SCALE: NTS



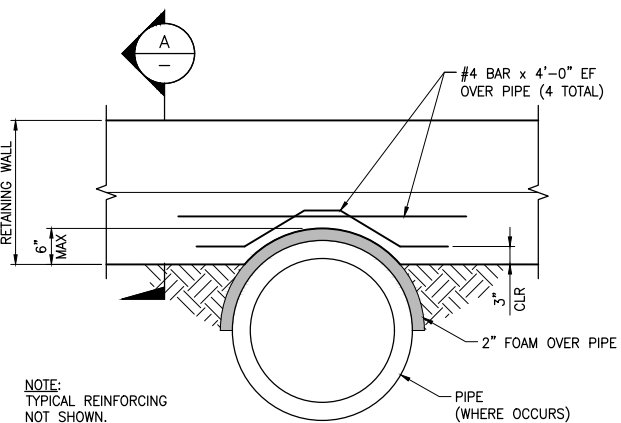
**3 TYPICAL WEEPHOLE**  
SCALE: NTS



**B RETAINING WALL SECTION**  
SCALE: NTS



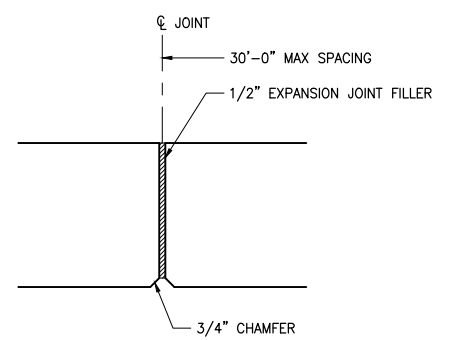
**A RETAINING WALL SECTION**  
SCALE: NTS



**2 WALL AT UTILITY CONFLICT**  
SCALE: NTS

**GENERAL STRUCTURAL NOTES**

- DESIGN SPECIFICATIONS:** INTERNATIONAL BUILDING CODE (IBC) 2018, AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SEVENTH EDITION, 2018.
  - CONSTRUCTION SPECIFICATIONS:** CLARK COUNTY UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - EXISTING UTILITIES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK AREA, AND PROVIDING PROTECTION FOR THE VARIOUS UTILITIES AFFECTED PRIOR TO PROCEEDING WITH THE WORK.
  - CONCRETE:** CONCRETE SHALL BE CLASS D MODIFIED AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF  $f'_c=4,500$  PSI AND A MAXIMUM WATER TO CEMENT RATIO, BY WEIGHT, OF 0.45. USE TYPE V CEMENT PER ASTM C-150. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
  - REINFORCING STEEL:** ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. DIMENSIONS ARE FROM OUT TO OUT OF BARS. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 3" WHERE CONCRETE IS CAST AGAINST SOIL AND 2" ELSEWHERE, UNLESS NOTED OTHERWISE. HOOKS MAY BE ROTATED OR TILTED AS NECESSARY TO PROVIDE THE PROPER CLEARANCES.
  - STRUCTURAL STEEL:** STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITIONS AND SUPPLEMENTS OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- ALL MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. ALL W-SECTIONS SHALL BE ASTM A992. ALL PIPE SECTIONS SHALL BE ASTM A53 GR B. THREADED RODS SHALL BE PER ASTM F1554 GR 36. WIRE ROPE SHALL BE PER FEDERAL SPECIFICATION RR-W-410E.
- WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS WITH EXPERIENCE WITH THE WELDING PROCESSES AND TYPES BEING PERFORMED.
  - ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. ALL FILTER MATERIAL SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 70 ksi. PROVIDE AISC MINIMUM WELD WHERE CONTROLLING OVER WELD SIZES SHOWN.
  - BEDDING MATERIAL:** BEDDING MATERIAL SHALL BE 6-INCHES OF TYPE II AGGREGATE BASE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY. EXPOSED NATIVE SOILS IN BOTTOMS OF EXCAVATIONS SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES, MOISTURE-CONDITIONED TO WITHIN 2% OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90%.
  - INVERTS, SLOPES, BEARINGS, ALIGNMENTS, AND ELEVATIONS SHOWN ARE FOR "REFERENCE ONLY". INFORMATION ON CIVIL DRAWINGS SHALL GOVERN.
  - CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING, AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES, AND UNDERGROUND ITEMS.
  - PROVIDE WALL EXPANSION JOINTS AT 30'-0" MAX SPACING AND WALL WEAKENED PLANE JOINTS AT 10'-0" MAX SPACING PER TYPICAL DETAILS.
  - THE DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY KIMLEY-HORN, PROJECT NO. 304365004, DATED FEBRUARY 24, 2020 AND THE FOLLOWING SOIL PROPERTIES:  
ALLOWABLE SOILS BEARING PRESSURE = 2,500 PSF  
SOIL ACTIVE PRESSURE, EFP = 40 psf/ft (LEVEL BACKFILL)  
SOIL AT-REST PRESSURE, EFP = 60 psf/ft  
SOIL PASSIVE PRESSURE, EFP = 350 psf/ft  
COEFFICIENT OF FRICTION = 0.35  
SITE CLASS = C



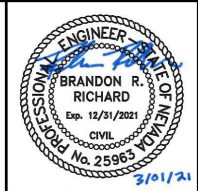
**1 WALL CONSTRUCTION JOINT**  
SCALE: NTS

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



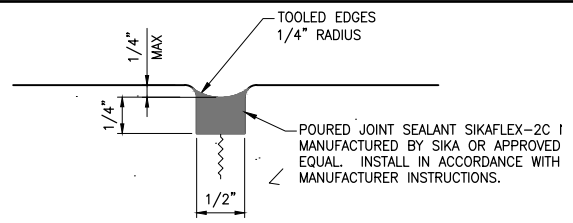
PROJECT No: 500-897-LV DRAWN BY: CZ  
DESIGNED BY: CZ CHECKED BY: EGG  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: NONE	S-1
VERT: NONE	SHT. 75 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

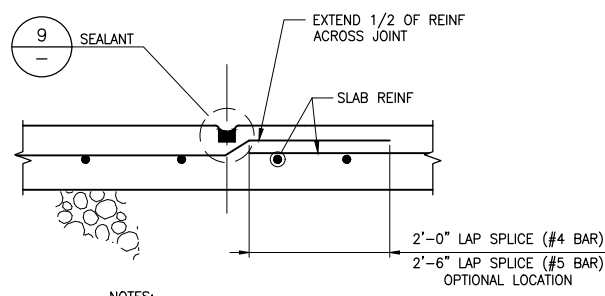
**CONCRETE LINED CHANNEL STRUCTURE NOTES**

- TRANSVERSE AND LONGITUDINAL JOINTS IN INVERT SLAB AND SIDE SLOPE OF PAVED TRAPEZOIDAL CHANNELS AND WALLS FOR RECTANGULAR CHANNELS WILL BE REQUIRED AT THE END OF EACH CONTINUOUS POURING OPERATION. SEE TYPICAL CONSTRUCTION JOINT DETAIL. TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 3- FEET OF A MANHOLE, WITHIN 10- FEET OF JUNCTION STRUCTURE OPENINGS, OR WITHIN 50 FEET OF AN EXPANSION JOINT.
- ALL TRANSVERSE JOINTS IN WALLS AND SLABS (CONSTRUCTION, WEAKENED, CONTRACTION AND EXPANSION) SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED UNLESS SHOWN OTHERWISE. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO CENTERLINE OF CONSTRUCTION.
- ALL SINGLE LAYER REINFORCEMENT SHALL BE PLACED IN THE CENTER OF CONCRETE UNLESS NOTED OTHERWISE.
- IN CURVED CHANNEL SECTIONS, TRANSVERSE BARS SHALL BE PLACED NORMAL TO THE CHANNEL CENTERLINE.
- IN CURVED CHANNEL SECTIONS, THE MAXIMUM SPACING OF BARS SHALL NOT EXCEED THAT SHOWN FOR TYPICAL SECTIONS. STEEL SHALL BE PLACED RADIALLY FROM THE MAXIMUM SPACING.
- IN CURVED CHANNEL SECTIONS, TRANSVERSE JOINTS SHALL BE NORMAL TO CENTERLINE AND SHALL NOT EXCEED 60' MAX SPACING.
- AT THE BEGINNING AND ENDING OF ALL POURS, A COMPLETE CURTAIN OF MAIN REINFORCEMENT SHALL BE PLACED 3-INCHES FROM THE TRANSVERSE CONSTRUCTION, CONTRACTION AND EXPANSION JOINTS.
- WEEPHOLES ARE REQUIRED AT 15- FEET OC ON EACH SIDE OF CHANNEL PER THE TYPICAL WEEPHOLE DETAIL FOR ALL OPEN CHANNEL STRUCTURES.
- WEAKENED PLANE JOINTS TO BE CENTERED WITH WEEPHOLES WHEN JOINTS OCCUR.
- DO NOT LOCATE CUTOFF WALLS WHERE A CONFLICT WITH EXISTING UTILITIES WILL OCCUR.
- PREFORMED EXPANSION JOINT SEAL:** PLY-SEAL XE BEIGE MANUFACTURED BY POLYSET OR APPROVED EQUAL. SIZE AND INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. THE WIDTH OF THE SEAL SHALL BE GREATER THAN THE WIDTH OF THE JOINT AT THE TIME OF INSTALLATION. MEASURE WIDTH OF JOINT AFTER INITIAL SHRINKAGE AND THERMAL MOVEMENT HAS OCCURRED. ALL JOINTS IN THE COMPRESSION SEAL SHALL BE HEAT WELDED.
- BONDER:** PLY-BONDER MANUFACTURED BY POLYSET OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. APPLY TO BOTH SIDES OF SEAL AND CONCRETE. BONDER SHALL FILL THE GROOVES OF THE SEAL.
- PREMOLDED JOINT FILLER:** PLY-SEAL FG WITH TEAR STRIP MANUFACTURED BY POLYSET OR EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
- PROVIDE ACCESS STEPS INTO CHANNEL PER TYPICAL DETAIL.



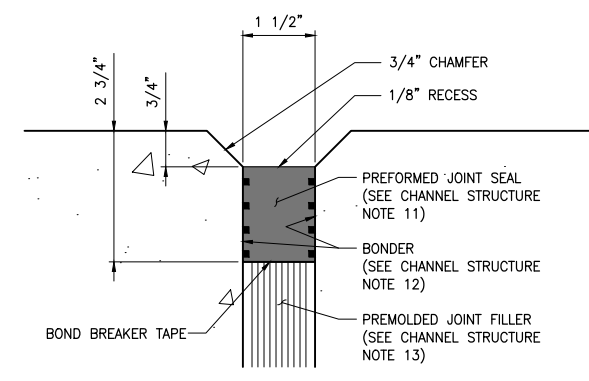
NOTE: JOINT MUST BE TOOLED, SAW-CUTTING IS NOT ALLOWED.

**9 SEALANT DETAIL**  
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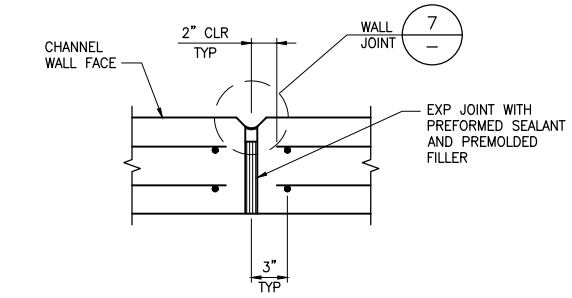


NOTES:  
1. SPRAY GALVANIZE REINFORCING BARS 9" EACH SIDE OF WEAKENED PLANE JOINT.  
2. CONSTRUCTION JOINTS ARE ALLOWED AT LONGITUDINAL JOINTS.

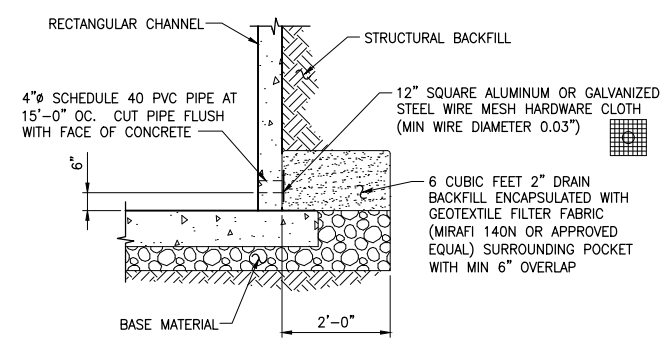
**8 WEAKENED PLANE JOINT**  
SCALE: NTS



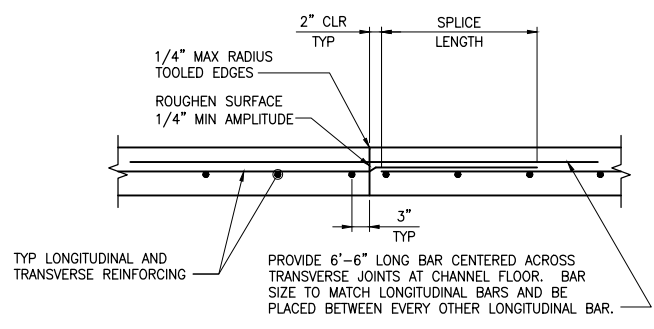
**7 WALL JOINT SEALANT**  
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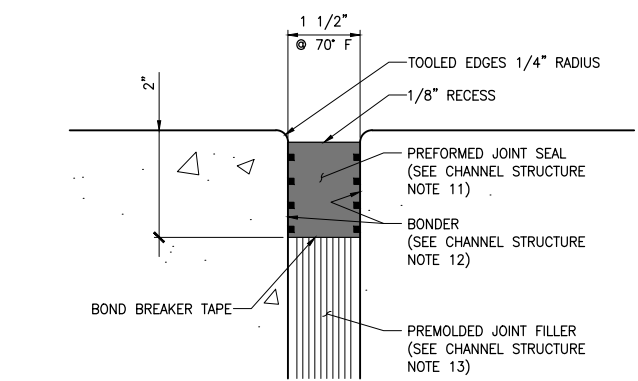
**6 WALL EXPANSION JOINT**  
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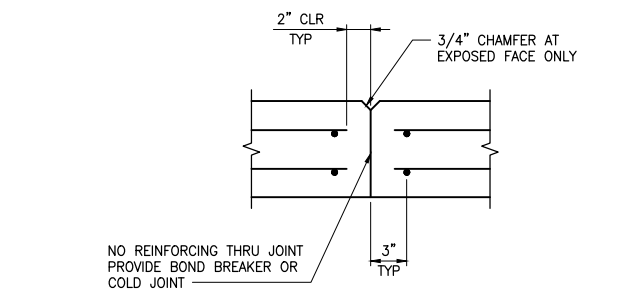
**5 CHANNEL WEEPHOLE DETAIL**  
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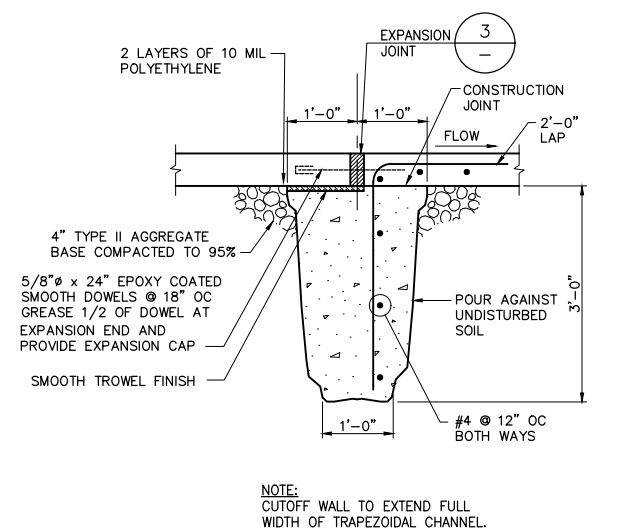
**4 CONSTRUCTION JOINT DETAIL**  
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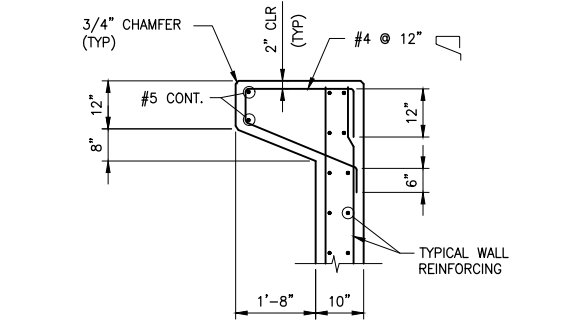
**3 SLAB EXPANSION JOINT**  
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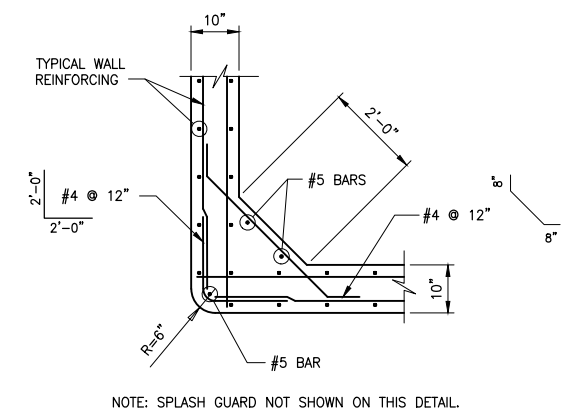
**2 WALL CONTRACTION JOINT**  
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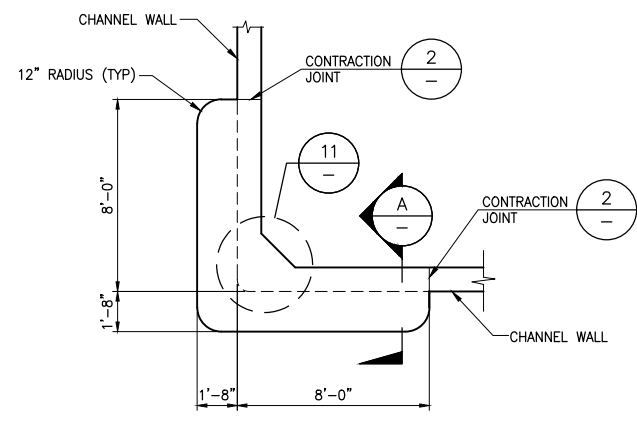
**1 TYP. TRANSVERSE CUTOFF WALL**  
SCALE: NTS



**A SECTION**  
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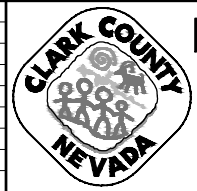


**11 DETAIL**  
SCALE: NTS



**10 SPLASH GUARD DETAIL**  
SCALE: NTS

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CHANNEL STRUCTURAL NOTES AND TYPICAL DETAILS**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

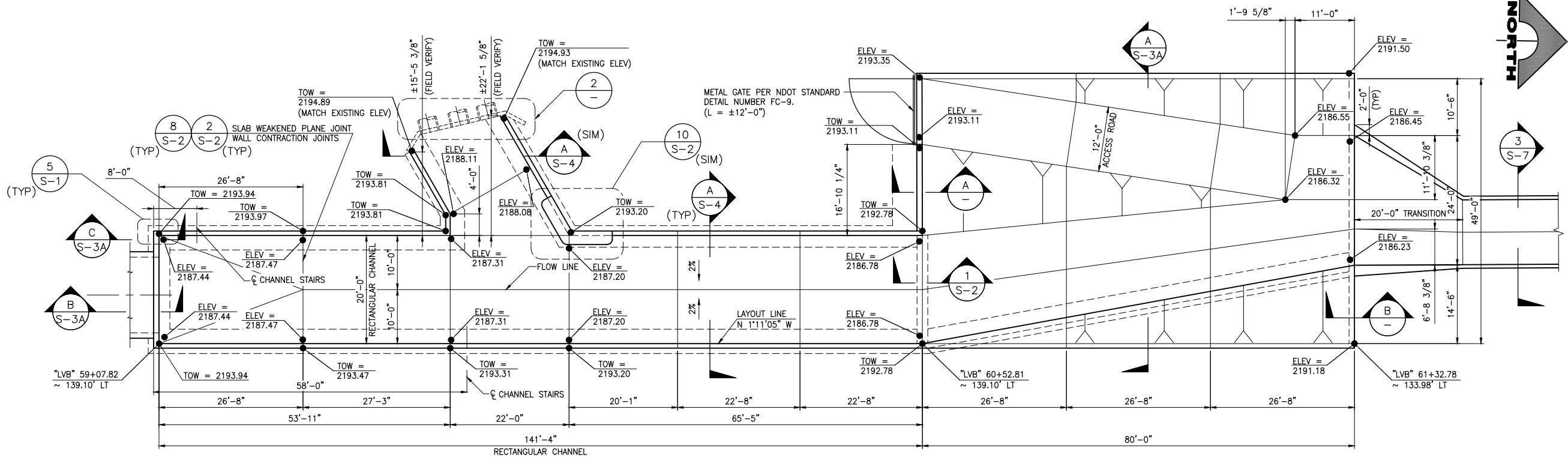


PROJECT No: 500-897-LV DRAWN BY: BRR  
DESIGNED BY: BRR CHECKED BY: EGG  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
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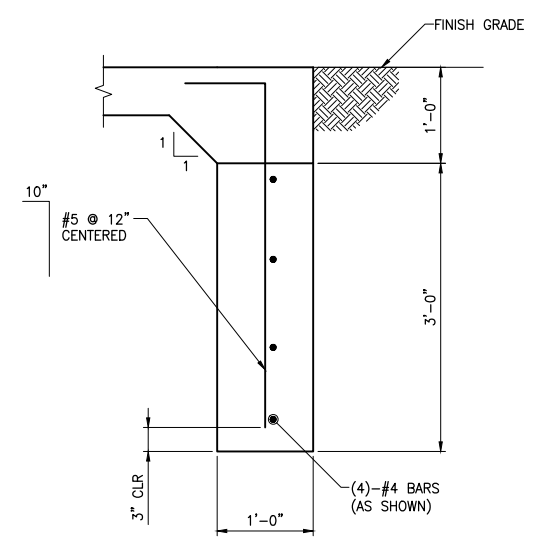
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FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

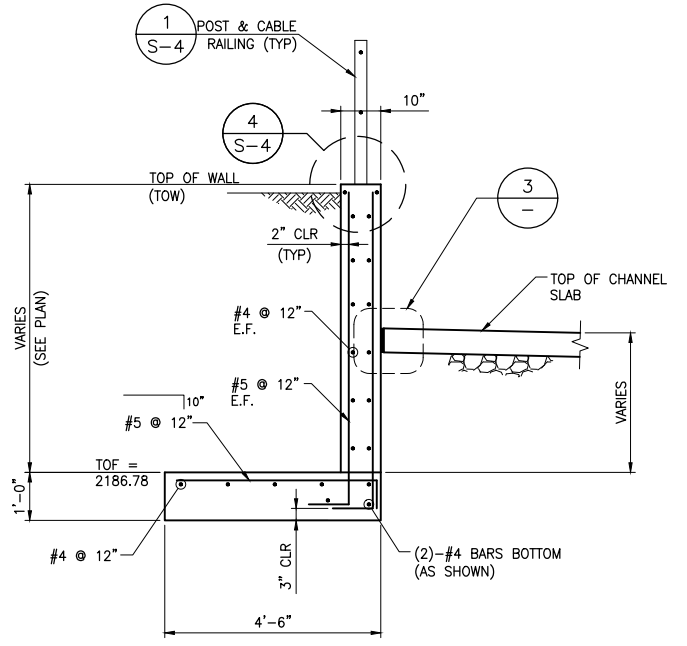




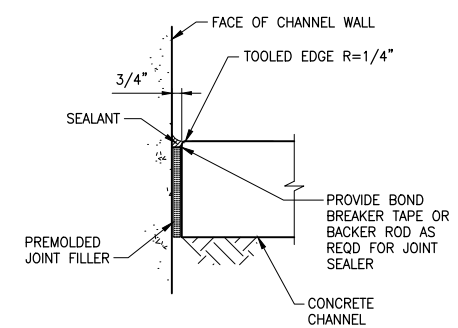
**1 CHANNEL PLAN**  
SCALE: 3/32" = 1'-0"



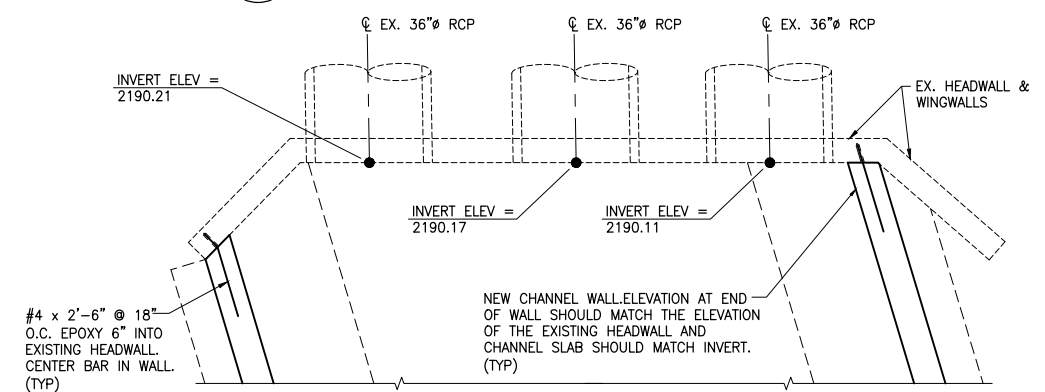
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SCALE: 1/2" = 1'-0"



**A SECTION**  
SCALE: 1/2" = 1'-0"



**3 DETAIL**  
SCALE: NTS



**2 DETAIL**  
SCALE: 3/8" = 1'-0"

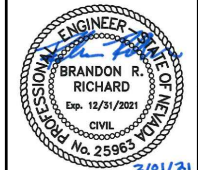
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**CHANNEL DETAILS I**

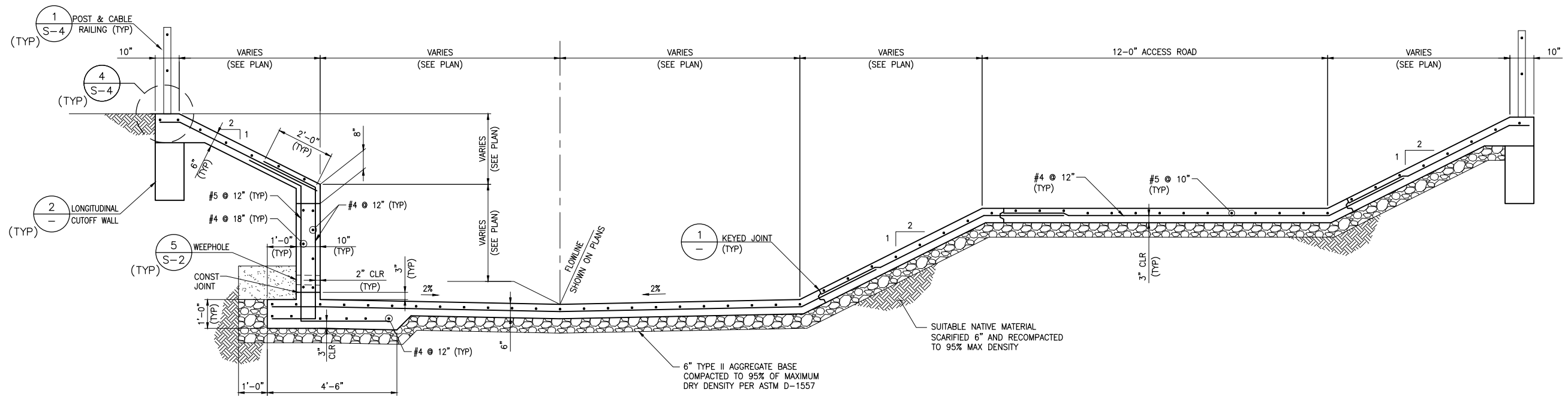
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



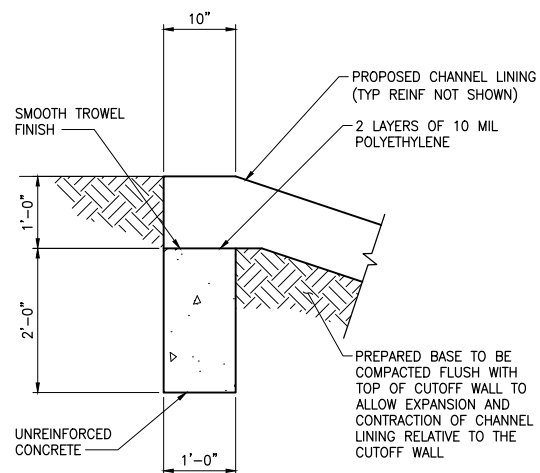
PROJECT No: 500-897-LV DRAWN BY: BRR  
 DESIGNED BY: BRR CHECKED BY: EGG  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: NONE	<b>S-3</b>
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FIELD BOOK	L-2272

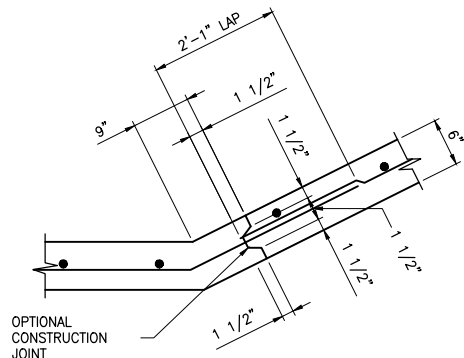
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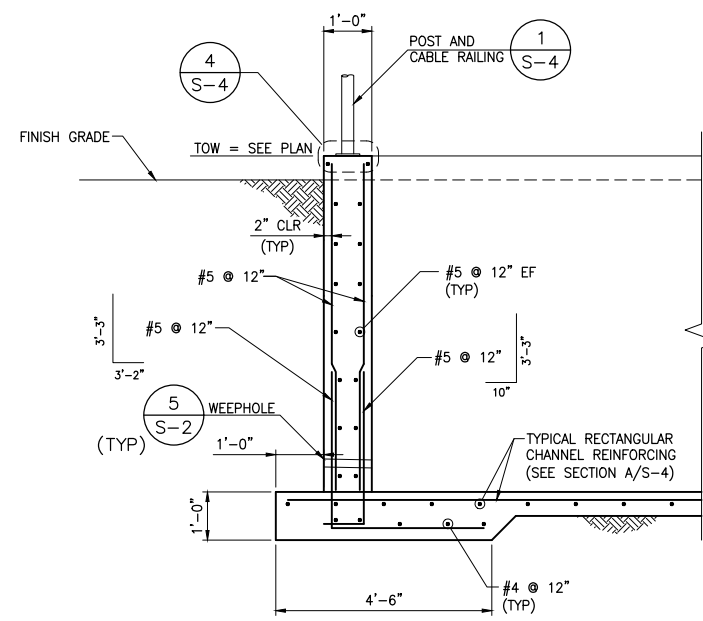
**A SECTION**  
SCALE: 1/2" = 1'-0"



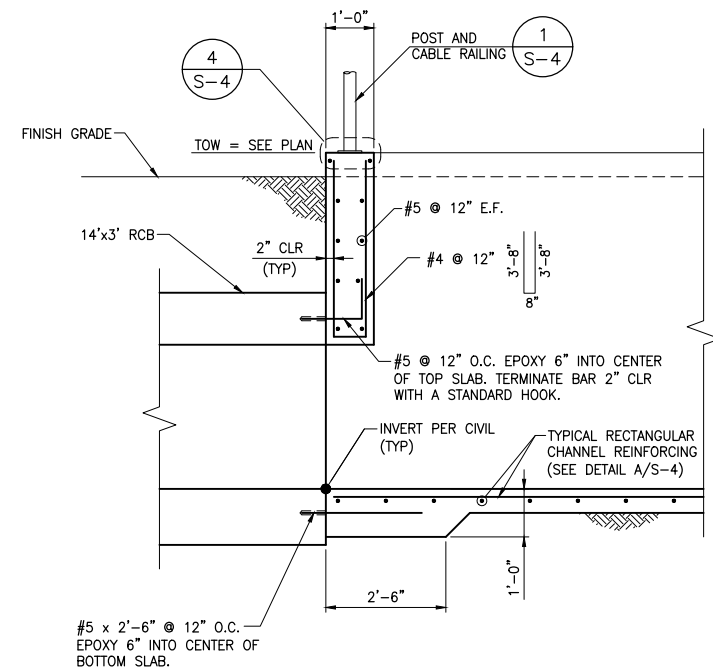
**2 TYPICAL CUTOFF WALL**  
SCALE: NTS



**1 KEYED JOINT DETAIL**  
SCALE: NTS



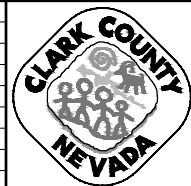
**C SECTION**  
SCALE: 1/2" = 1'-0"



**B SECTION**  
SCALE: 1/2" = 1'-0"

F:\Projects\500\500-897-LV\DWG\Production\Phase B\7\_LVB\_5 Sheets.dwg

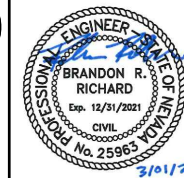
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**CHANNEL DETAILS II**

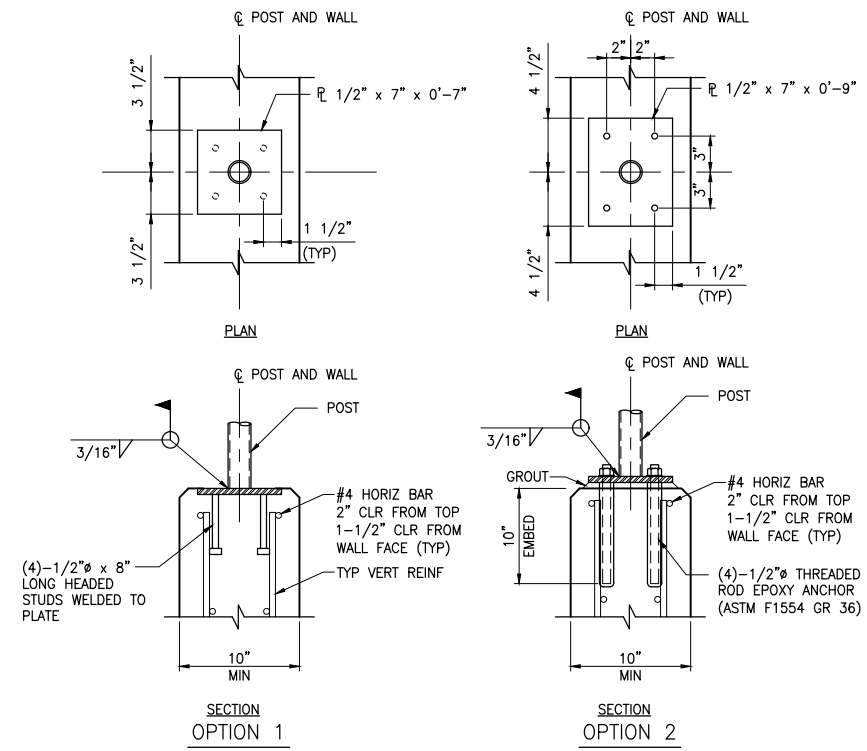
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



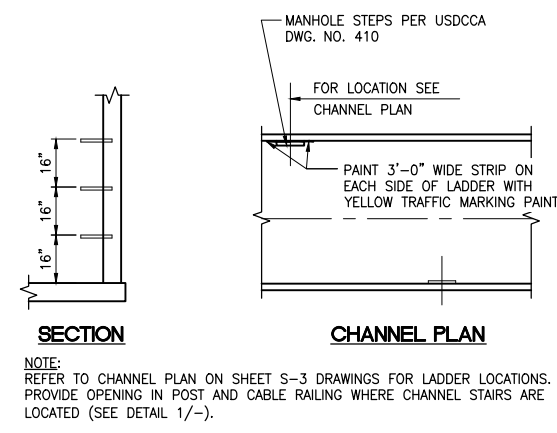
PROJECT No: 500-897-LV DRAWN BY: BRR  
 DESIGNED BY: BRR CHECKED BY: EGG  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>S-3A</b>
VERT: NONE	SHT. 77A OF 159
FIELD BOOK	L-2272

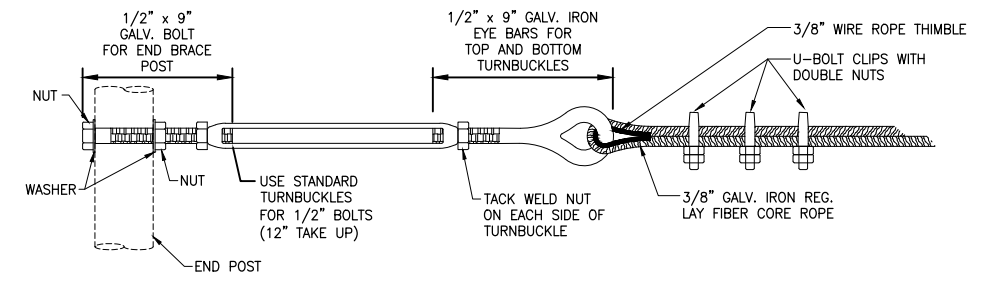
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



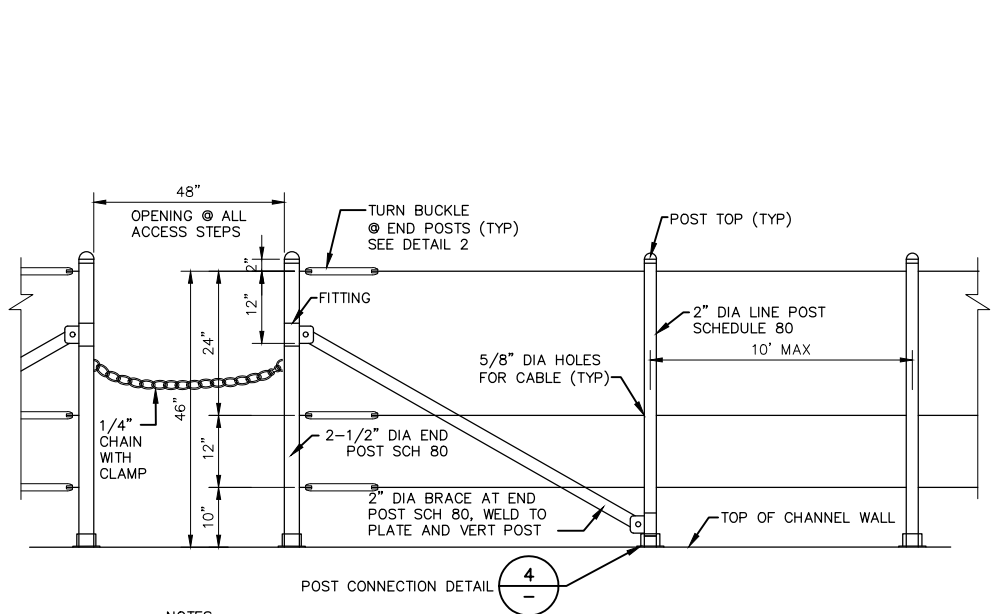
**4 POST CONNECTION DETAIL**  
SCALE: NTS



**3 TYPICAL CHANNEL STEPS**  
SCALE: 1/2\"/>

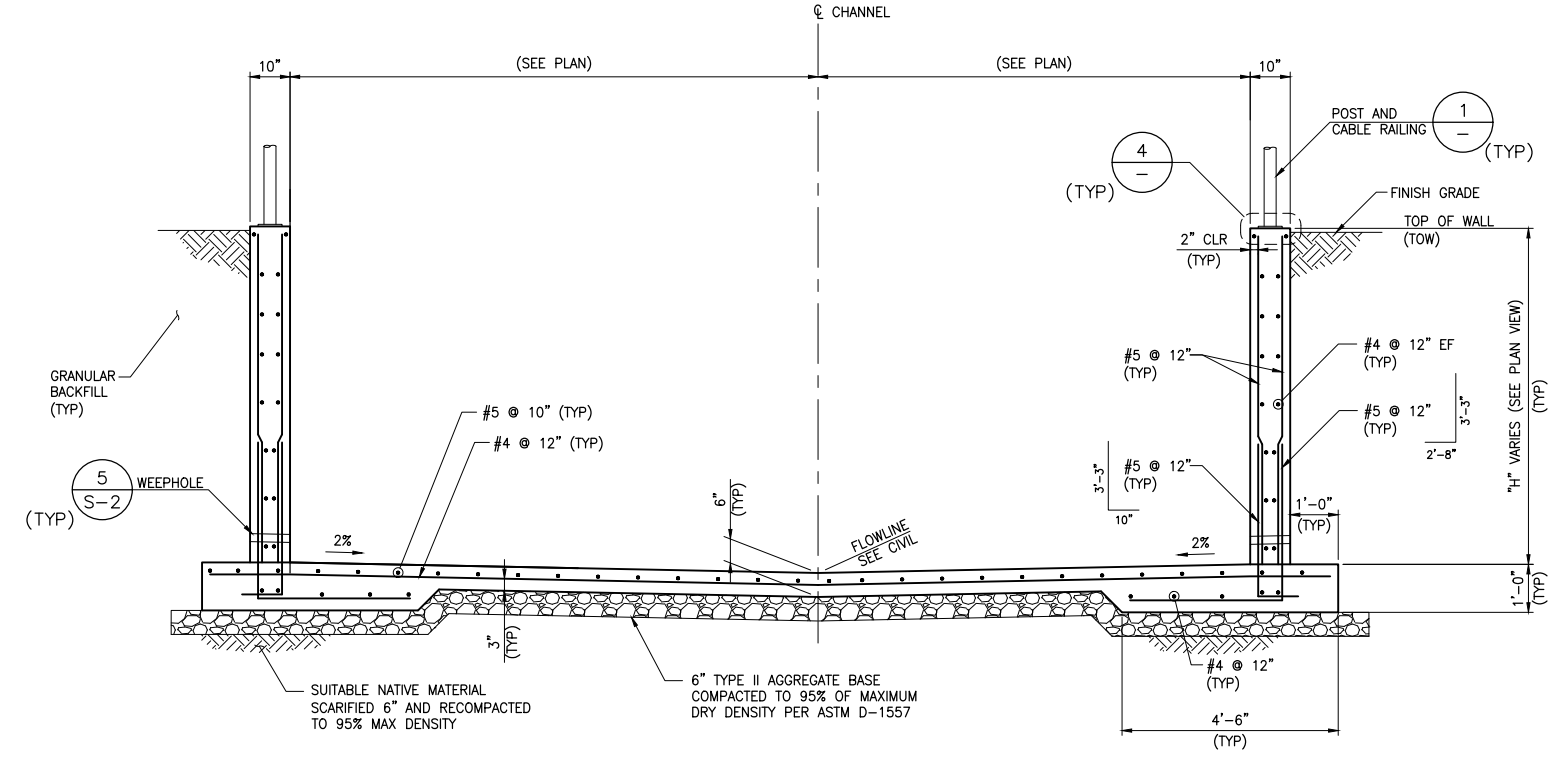


**2 TURNBUCKLE DETAIL**  
SCALE: NTS



- NOTES:**
1. ALL POSTS SHALL BE SET PLUMB.
  2. RAILING POSTS AND FITTINGS SHALL BE HOT DIPPED OR DIPPED GALVANIZED MALLEABLE CAST IRON PRESSED STEEL.
  3. GALVANIZE COMPONENTS AFTER FABRICATION.
  4. BRACE BANDS SIZED FOR 2000 LBS. (WORKING LOAD).
  5. ALL POSTS SHALL BE A53 STEEL.
  6. BRACES SHALL NOT BE INSTALLED ACROSS EXPANSION JOINTS.
  7. POLE MOUNTS SHALL NOT BE LOCATED WITHIN 1'-FOOT OF EXPANSION JOINTS.
  8. TACK WELD ALL NUTS.

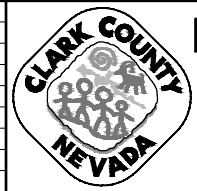
**1 POST AND CABLE RAILING**  
SCALE: NTS



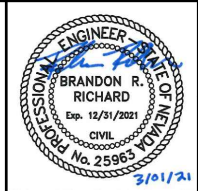
**A RECTANGULAR CHANNEL**  
SCALE: 1/2\"/>

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**CHANNEL DETAILS III**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

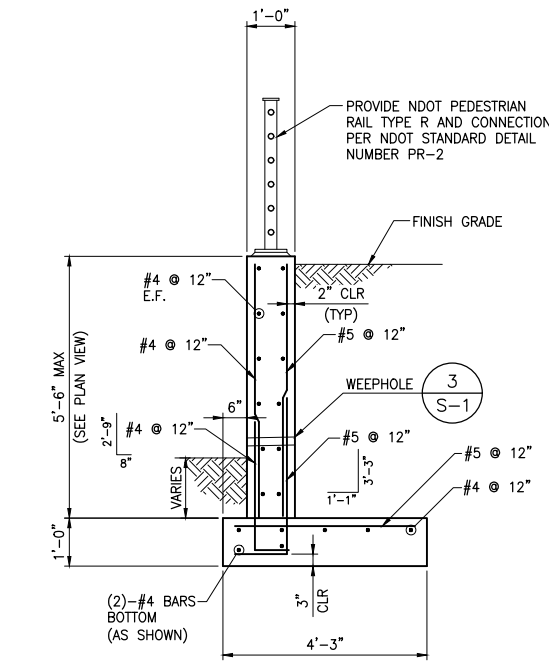


PROJECT No: 500-897-LV DRAWN BY: BRR  
DESIGNED BY: BRR CHECKED BY: EGG  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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F: 702.804.2299  
gcvengineering.com

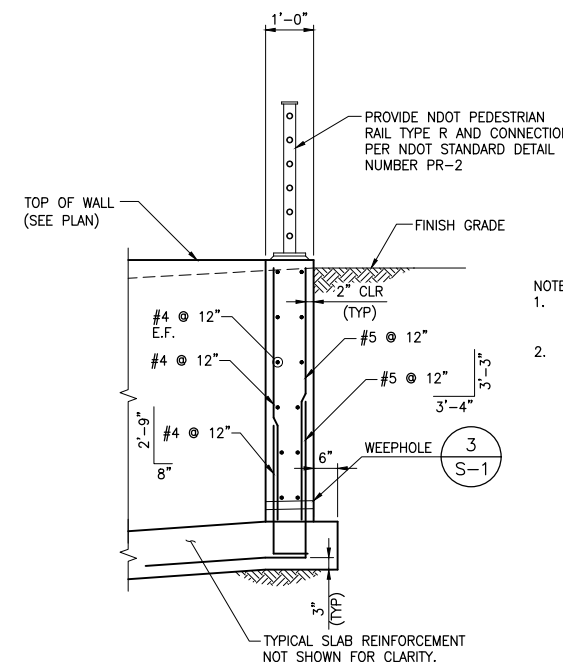
SCALE	DRAWING NO.
HORIZ: NONE	<b>S-4</b>
VERT: NONE	SHT. 78 OF 159
FIELD BOOK	L-2272



F:\Projects\500-897-LV\DWG\Production\Phase B\7\_LVB\_5\_Sheets.dwg

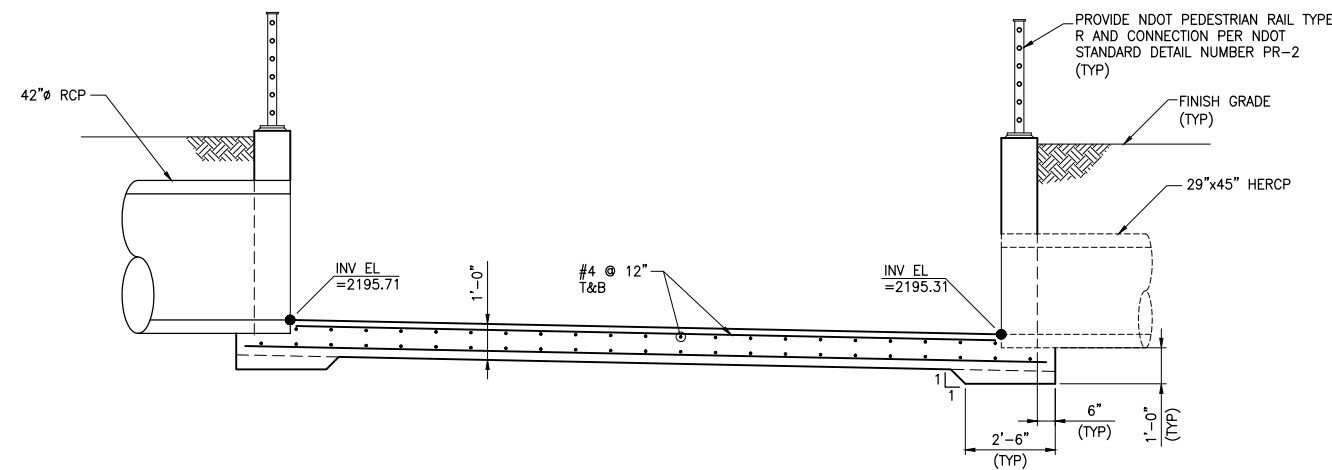


**D SECTION**  
SCALE: 1/2" = 1'-0"

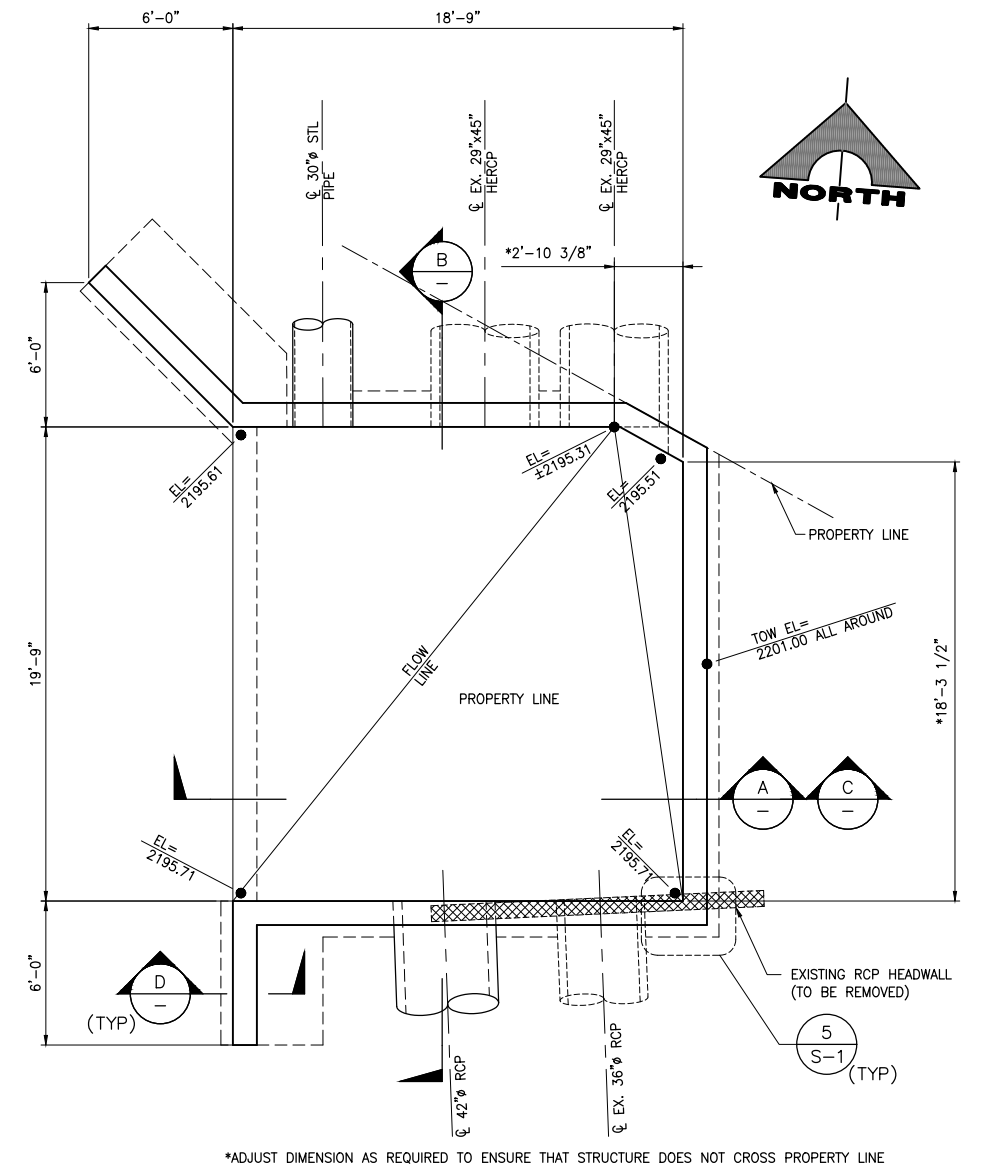


**C SECTION**  
SCALE: 1/2" = 1'-0"

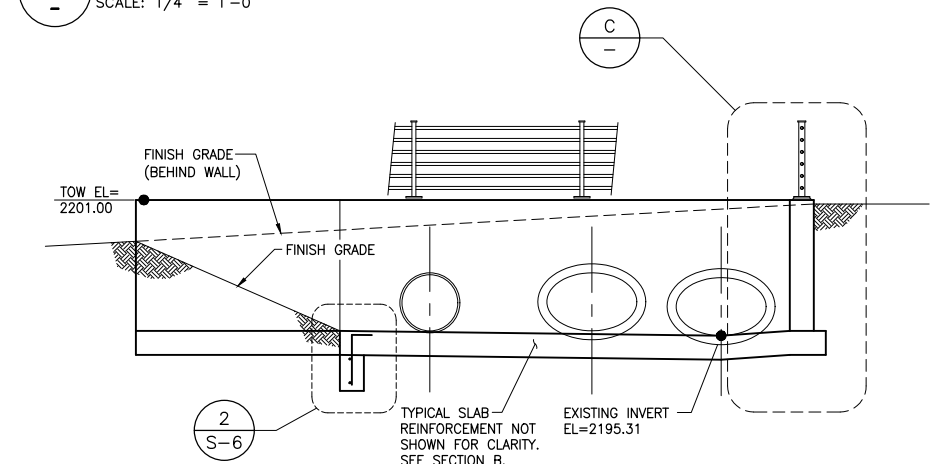
- NOTE:
1. FIELD CUT TYPICAL REINFORCEMENT 2" CLR OF PIPE
  2. PROVIDE ADDITIONAL REINFORCEMENT AROUND PIPE OPENINGS PER 4/S-1.



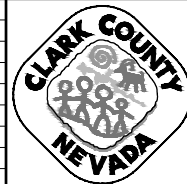
**B SECTION**  
SCALE: 3/8" = 1'-0"



**1 PLAN - JUNCTION STRUCTURE #2**  
SCALE: 1/4" = 1'-0"



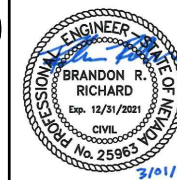
**A SECTION**  
SCALE: 1/4" = 1'-0"



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**JUNCTION STRUCTURE #2**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



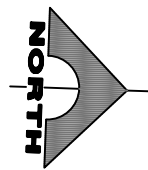
PROJECT No: 500-897-LV DRAWN BY: BRR  
 DESIGNED BY: BRR CHECKED BY: EGG  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	S-5
VERT: NONE	SHT. 79 OF 159
FIELD BOOK	L-2272

02-26-21 08:22:48

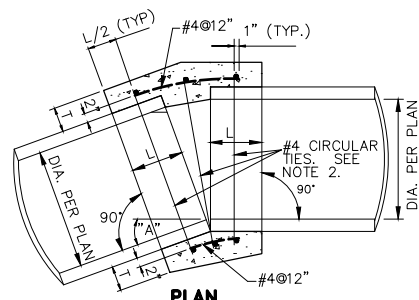
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



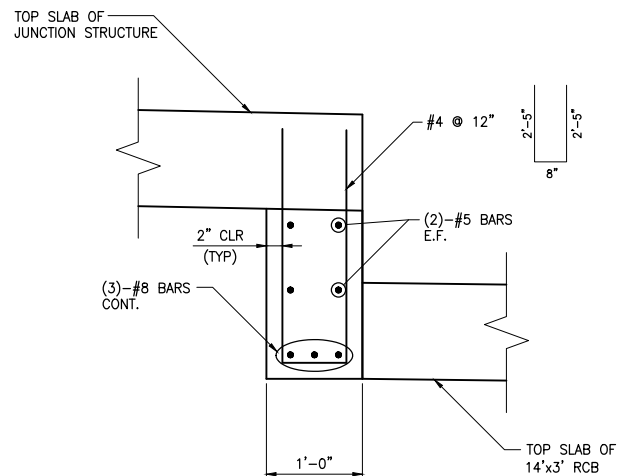
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

- NOTES:**
- WHERE THE SLOPE OF THE UPSTREAM PIPE IS GREATER THAN THE SLOPE OF THE DOWNSTREAM PIPE, JOIN SOFFITS. WHERE THE SLOPE OF THE UPSTREAM PIPE IS LESS THAN THE SLOPE OF THE DOWNSTREAM PIPE, JOIN INVERTS.
  - WHERE THE SPACE BETWEEN THE PIPE EXTREMITIES EXCEEDS 2 1/2 INCHES, THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN A MAXIMUM SPACING OF 6 INCHES CENTER TO CENTER. CIRCULAR TIES SHALL HAVE A DIAMETER 5 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE LARGER PIPE.
  - WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED, L AND T SHALL BE THOSE OF THE LARGER PIPE.

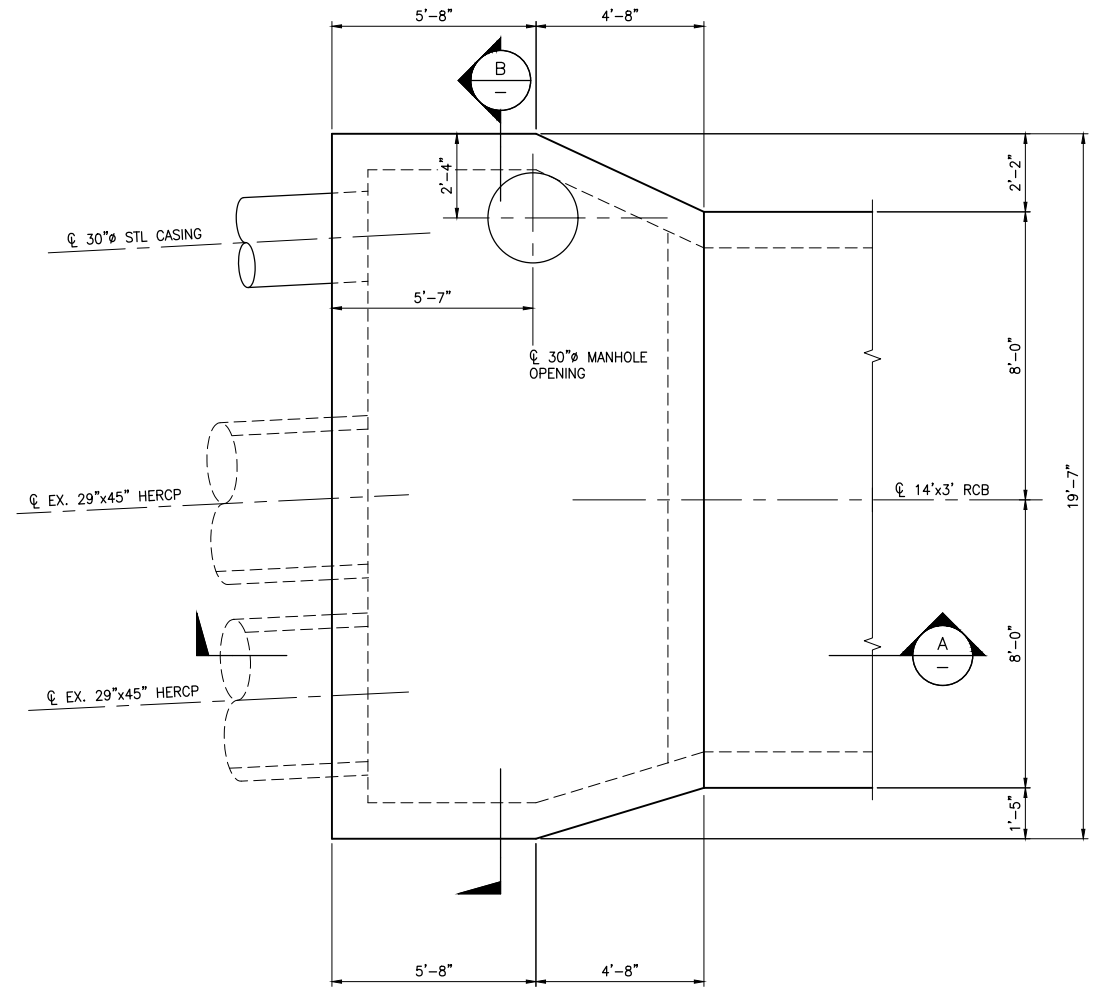


**CIRCULAR TIES:**

PIPE DIAMETER	SPACE BETWEEN PIPE EXTREMITIES	NO. OF CIRCULAR TIES	L	T
18" OR LESS	2 1/2"	3	12"	5"
24" OR LESS	2 1/2"	3	12"	6"
30" OR LESS	2 1/2"	3	12"	7"
36" OR LESS	2 1/2" OR LESS	4	18"	9"
48" OR LESS	2 1/2" OR LESS	5	20"	10"
60" OR LESS	2 1/2" OR LESS	5	21"	11"

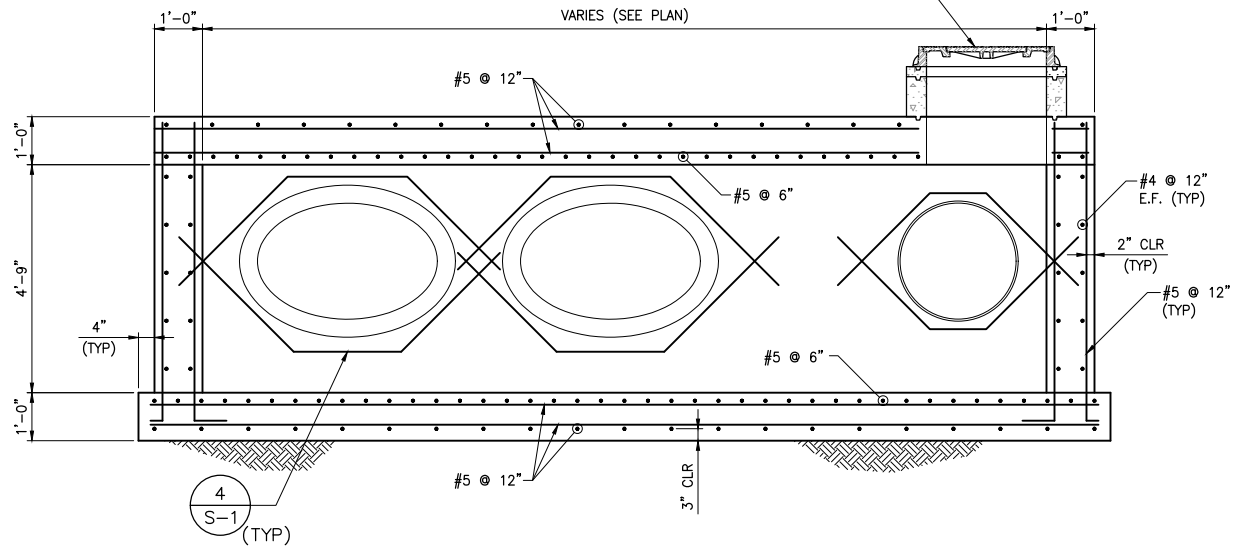


**2 DETAIL**  
SCALE: 1" = 1'-0"

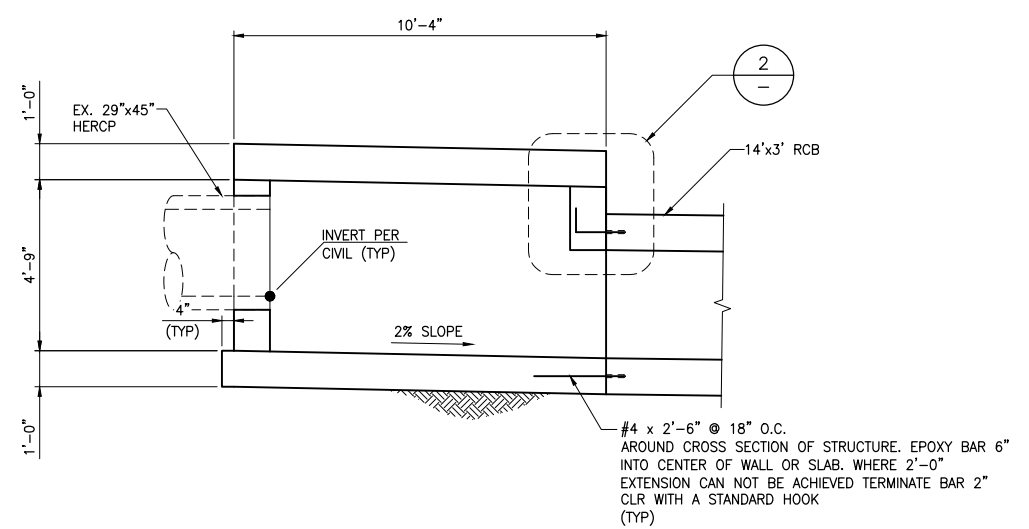


**1 PLAN - JUNCTION STRUCTURE #3**  
SCALE: 3/8" = 1'-0"

PROVIDE MANHOLE COLLAR, RING, AND FRAME PER CLARK COUNTY UNIFORM STANDARD DRAWINGS NO. 403.1 AND 408.1 WITH STEPS PER UNIFORM STANDARD DRAWING NO. 410. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENING IN TOP SLAB SIMILAR TO DETAIL 4/S-1.

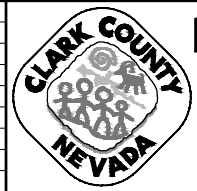


**B SECTION**  
SCALE: 1/2" = 1'-0"



**A SECTION**  
SCALE: 3/8" = 1'-0"

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**JUNCTION STRUCTURE #3**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

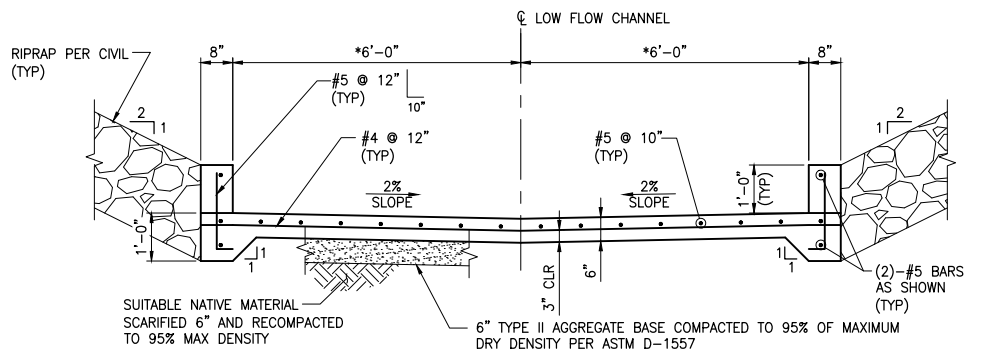


PROJECT No: 500-897-LV DRAWN BY: BRR  
DESIGNED BY: BRR CHECKED BY: EGG  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>S-6</b>
VERT: NONE	SHT. 80 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

BID NO.: 605718-20

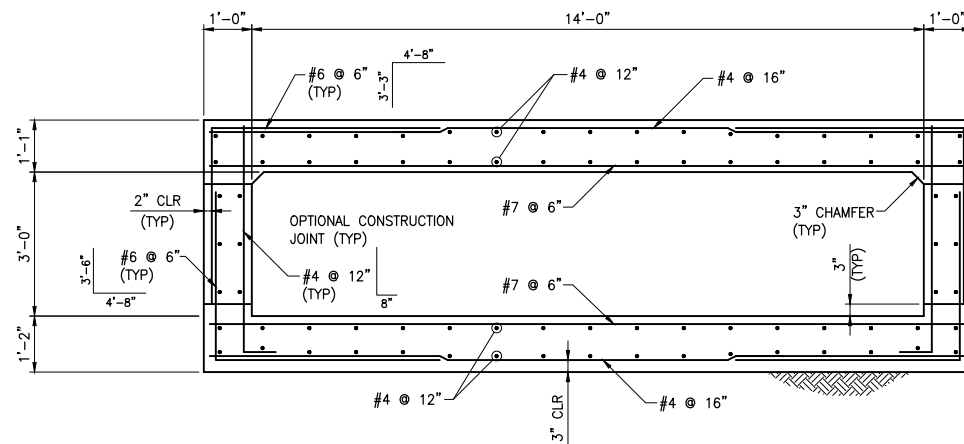


\*ADJUST DIMENSION AND DETAIL AS REQUIRED TO FIT CHANNEL TRANSITION FOR FIRST 20FT OF CHANNEL. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION.

- NOTES:
1. PROVIDE WEAKENED PLANE JOINT @ 60'-0" O.C. PER DETAIL B/S-2
  2. PROVIDE TRANSVERSE CUTOFF WALL @ 180'-0" O.C. PER DETAIL 1/S-2
  3. PROVIDE CUTOFF WALL WHERE CHANNEL TERMINATES UPSTREAM AND DOWNSTREAM PER SECTION B/S-3

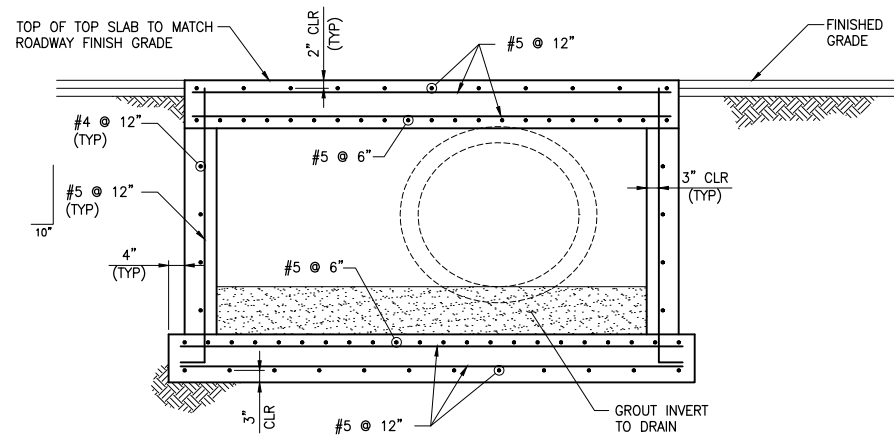
### 3 LOW FLOW CHANNEL

SCALE: NTS



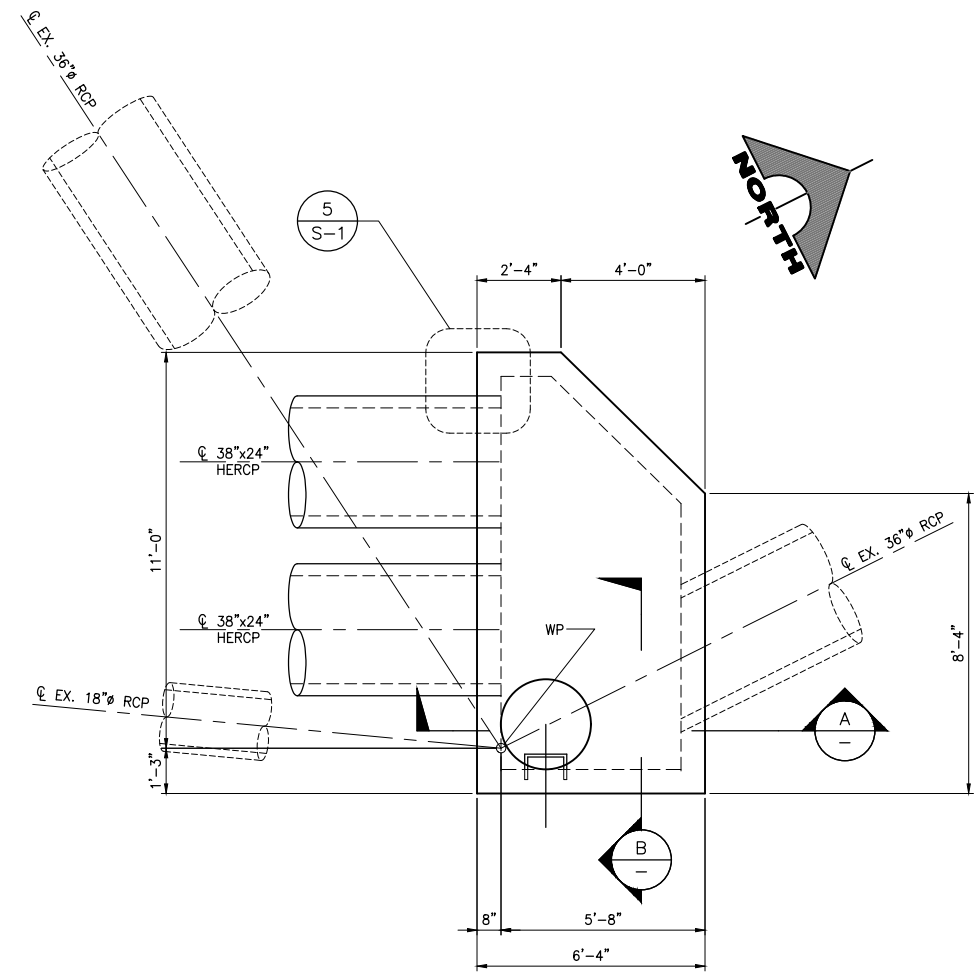
### 2 14'x3' RCB

SCALE: 1/2" = 1'-0"



### B SECTION

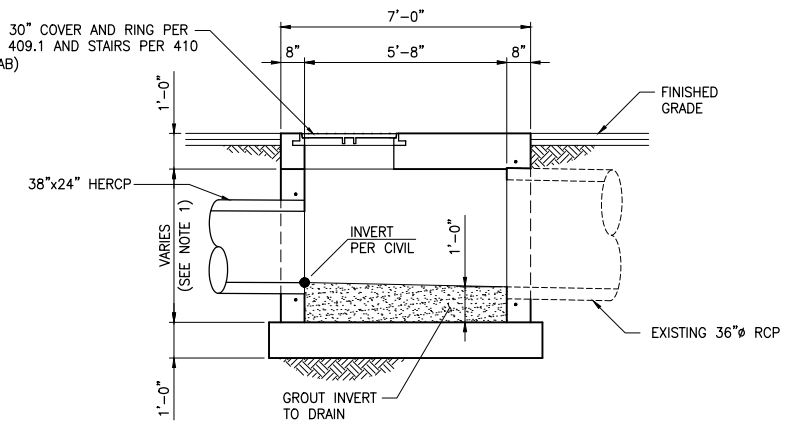
SCALE: 1/2" = 1'-0"



### 1 PLAN - JUNCTION STRUCTURE #1

SCALE: 3/8" = 1'-0"

PROVIDE STANDARD MANHOLE 30" COVER AND RING PER UNIFORM STANDARD DRAWING 409.1 AND STAIRS PER 410 (EMBED FRAME INTO TOP SLAB)



NOTE:  
1. VARY WALL HEIGHT SO TOP OF TOP SLAB ELEVATION MATCHES ROADWAY FINISH GRADE.

### A SECTION

SCALE: 3/8" = 1'-0"

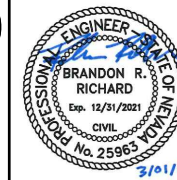
02-26-21 08:22:54 F:\Projects\500-897-LV\DWG\Production\Phase B\7\_LVB\_S Sheets.dwg



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### JUNCTION STRUCTURE #1

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: BRR  
 DESIGNED BY: BRR CHECKED BY: EGG  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

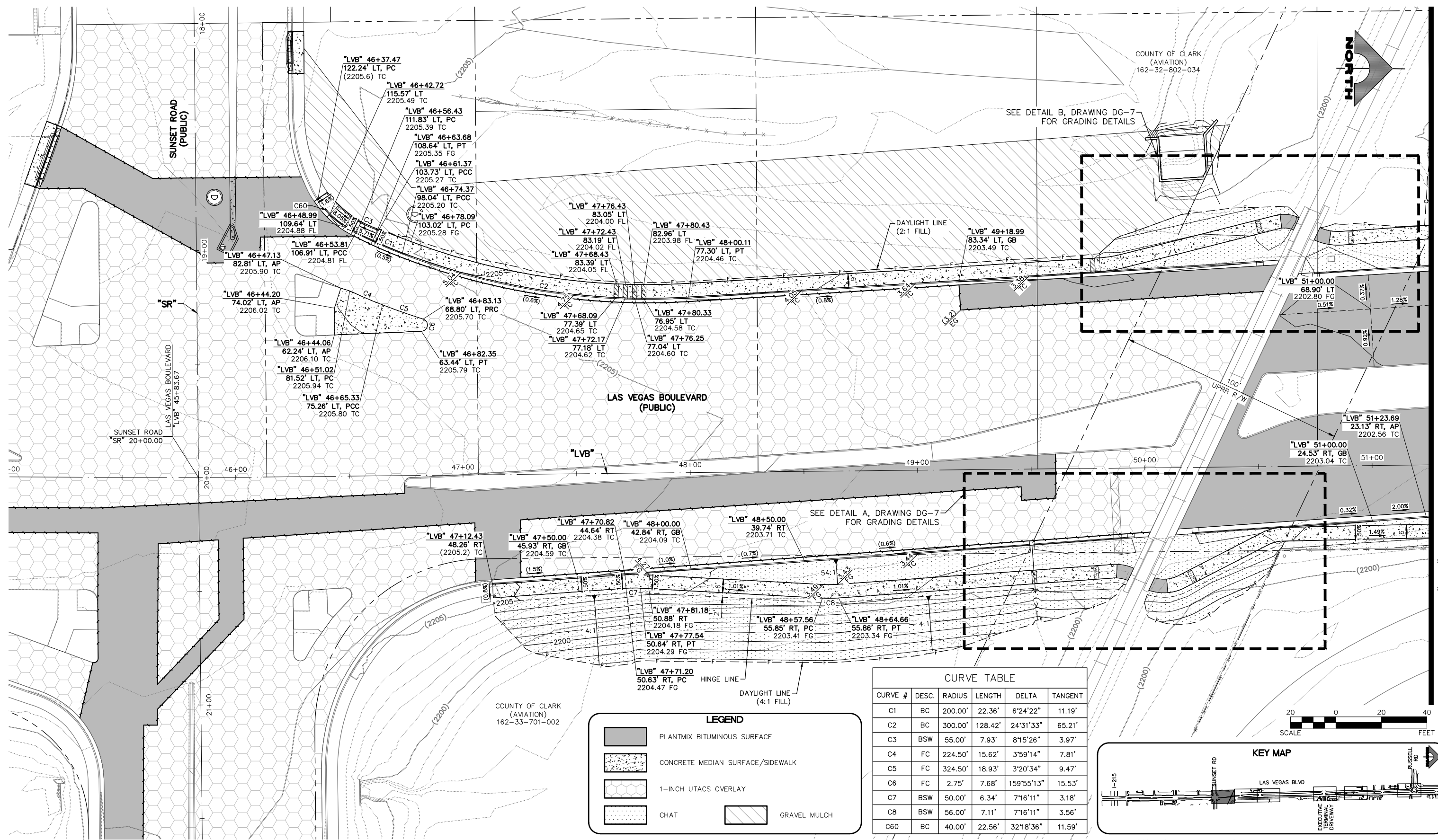
SCALE	DRAWING NO.
HORIZ: NONE	S-7
VERT: NONE	SHT. 81 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



02-26-21 09:33:42 F:\Projects\500-897-LV\DWG\Production\Phase B\09\_LVB\_DG\_Sheets.dwg

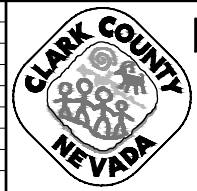
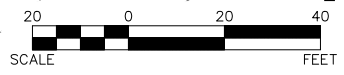
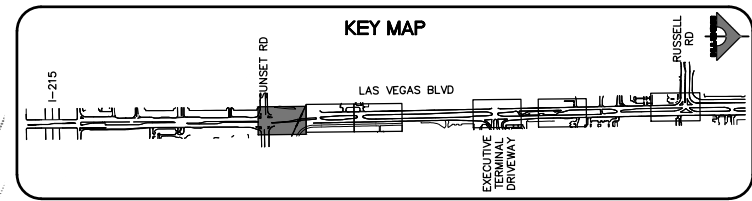


**LEGEND**

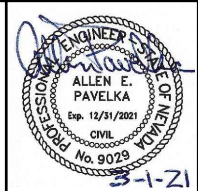
- PLANTMIX BITUMINOUS SURFACE
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY
- CHAT
- GRAVEL MULCH

**CURVE TABLE**

CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C1	BC	200.00'	22.36'	6°24'22"	11.19'
C2	BC	300.00'	128.42'	24°31'33"	65.21'
C3	BSW	55.00'	7.93'	8°15'26"	3.97'
C4	FC	224.50'	15.62'	3°59'14"	7.81'
C5	FC	324.50'	18.93'	3°20'34"	9.47'
C6	FC	2.75'	7.68'	159°55'13"	15.53'
C7	BSW	50.00'	6.34'	7°16'11"	3.18'
C8	BSW	56.00'	7.11'	7°16'11"	3.56'
C60	BC	40.00'	22.56'	32°18'36"	11.59'



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
**"LVB" 45+00.00 TO "LVB" 51+25.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>DG-1</b>
VERT: NONE	SHT. 82 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

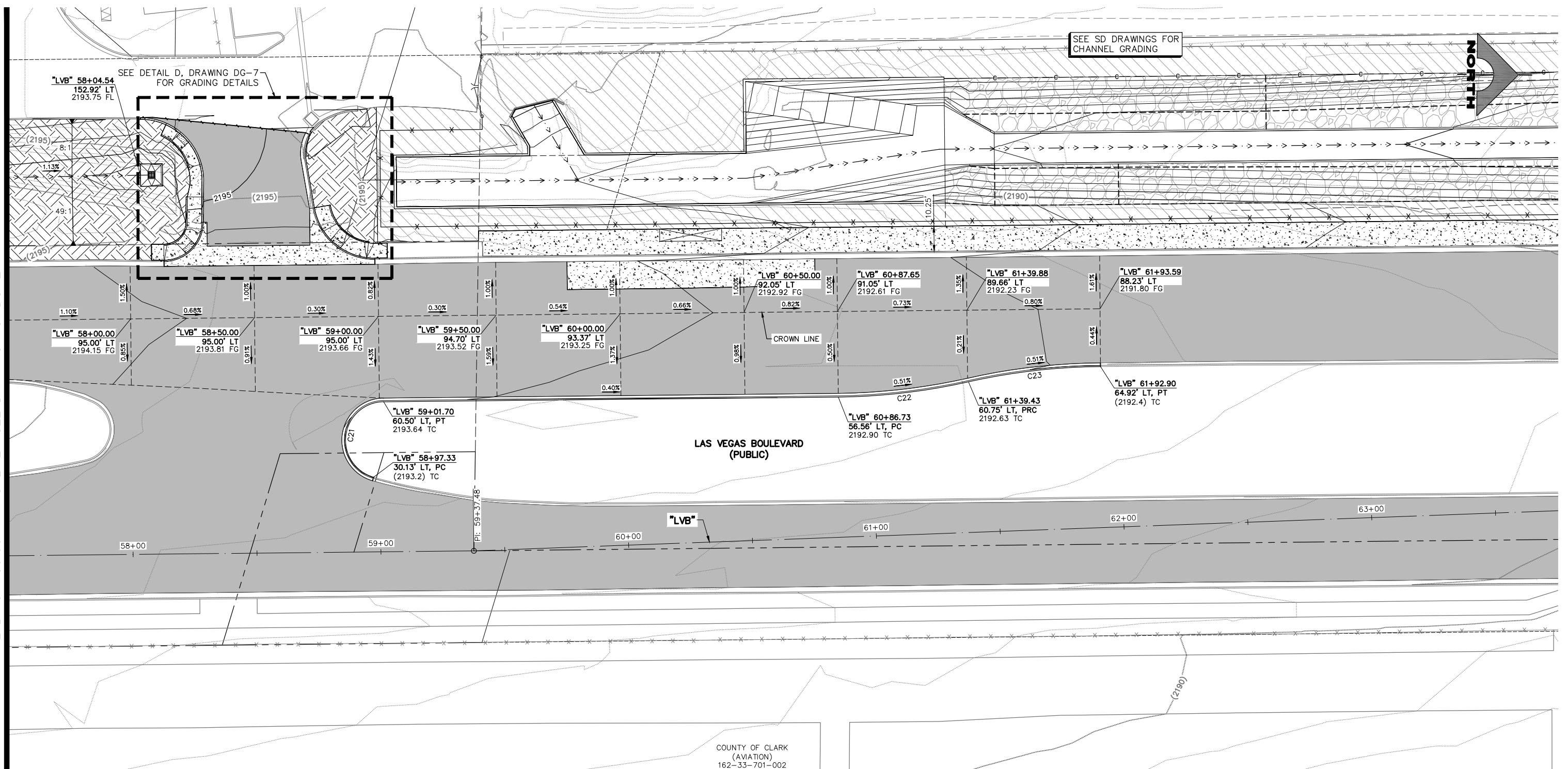
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) SEE DRAWING NO. DG-2





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 02-26-21 09:34:11  
 dhines

"LVB" 57+50.00 MATCHLINE SEE DRAWING NO. DG-2



SEE SD DRAWINGS FOR CHANNEL GRADING

SEE DETAIL D, DRAWING DG-7 FOR GRADING DETAILS

LAS VEGAS BOULEVARD (PUBLIC)

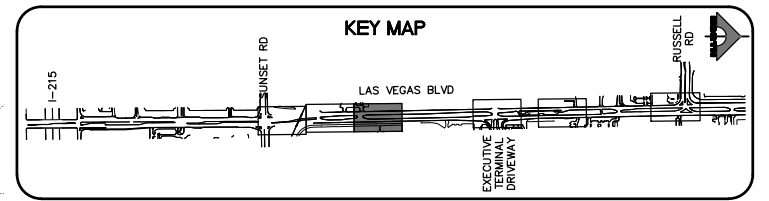
COUNTY OF CLARK (AVIATION)  
 162-33-701-002

**LEGEND**

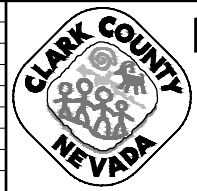
- PLANTMIX BITUMINOUS SURFACE
- CONCRETE MEDIAN SURFACE/SIDEWALK
- LANDSCAPING
- RIPRAP
- GRAVEL MULCH

**CURVE TABLE**

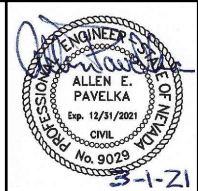
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C21	BC	15.50'	44.26'	163°37'10"	107.69'
C22	BC	250.00'	52.96'	12°08'18"	26.58'
C23	BC	250.00'	53.74'	12°18'55"	26.97'



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
 "LVB" 57+50.00 TO "LVB" 63+75.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

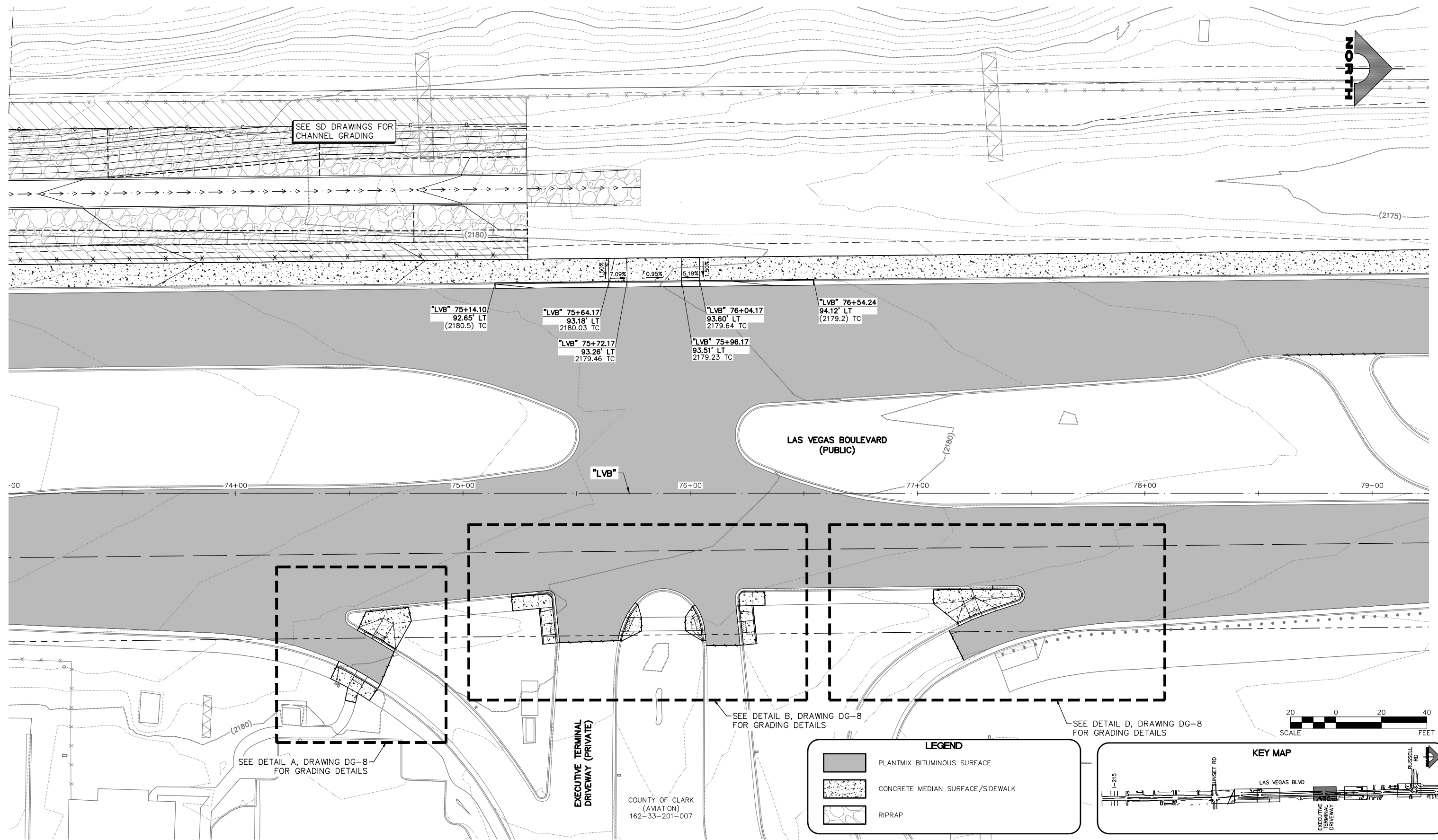


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 DRAWING NO. DG-3  
 SH. 84 OF 159  
 L-2272

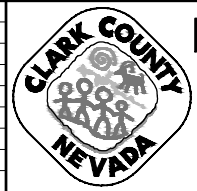
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 BID NO.: 605718-20





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REV. NO.	DATE	DESCRIPTION	APPROVED



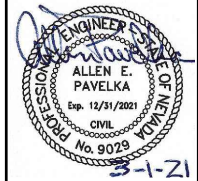
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
**"LVB" 73+00.00 TO "LVB" 79+25.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

COUNTY OF CLARK  
 (AVIATION)  
 162-33-201-007

**LEGEND**

- PLANTMIX BITUMINOUS SURFACE
- CONCRETE MEDIAN SURFACE/SIDEWALK
- RIPRAP

**KEY MAP**

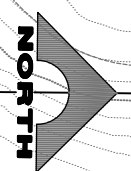
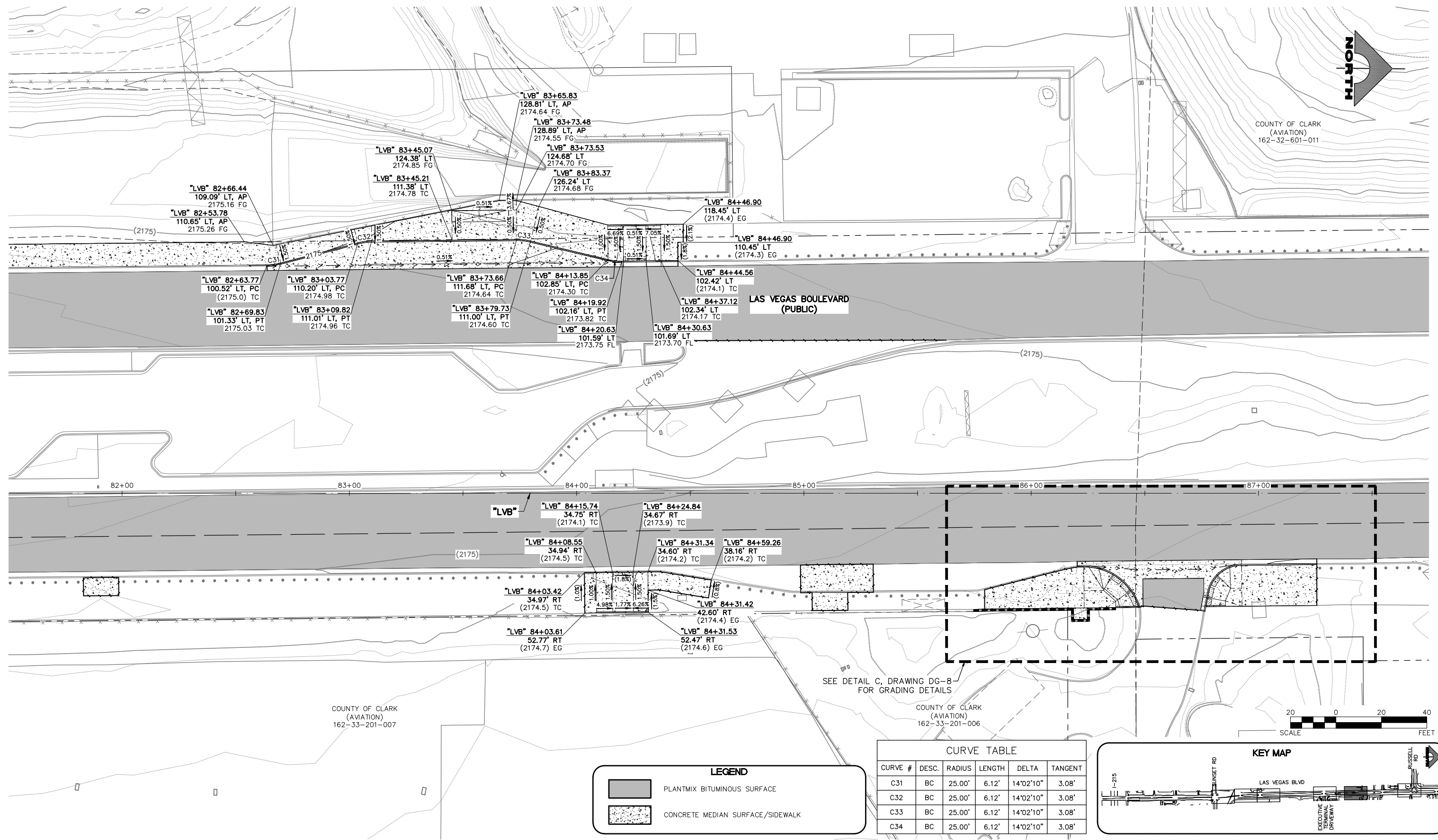


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-4
VERT: NONE	SHT. 85 OF 159
FIELD BOOK	L-2272

02-26-21 09:34:40 F:\Projects\500-897-LV\DWG\Production\Phase B\09\_LVB\_DC\_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



COUNTY OF CLARK  
(AVIATION)  
162-32-601-011

LAS VEGAS BOULEVARD  
(PUBLIC)

COUNTY OF CLARK  
(AVIATION)  
162-33-201-007

COUNTY OF CLARK  
(AVIATION)  
162-33-201-006

SEE DETAIL C, DRAWING DG-8  
FOR GRADING DETAILS

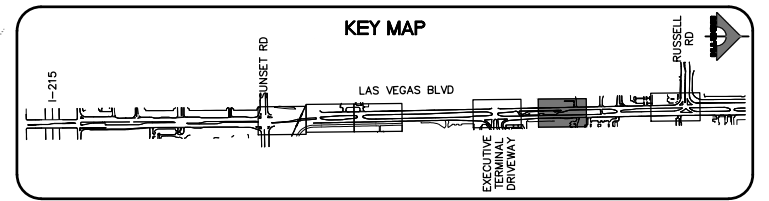


**LEGEND**

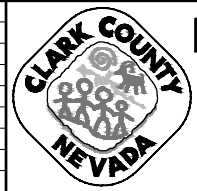
- PLANTMIX BITUMINOUS SURFACE
- CONCRETE MEDIAN SURFACE/SIDEWALK

**CURVE TABLE**

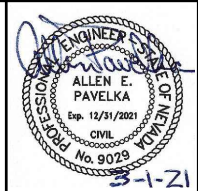
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C31	BC	25.00'	6.12'	14°02'10"	3.08'
C32	BC	25.00'	6.12'	14°02'10"	3.08'
C33	BC	25.00'	6.12'	14°02'10"	3.08'
C34	BC	25.00'	6.12'	14°02'10"	3.08'



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
**"LVB" 81+50.00 TO "LVB" 87+75.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS SURVEYORS

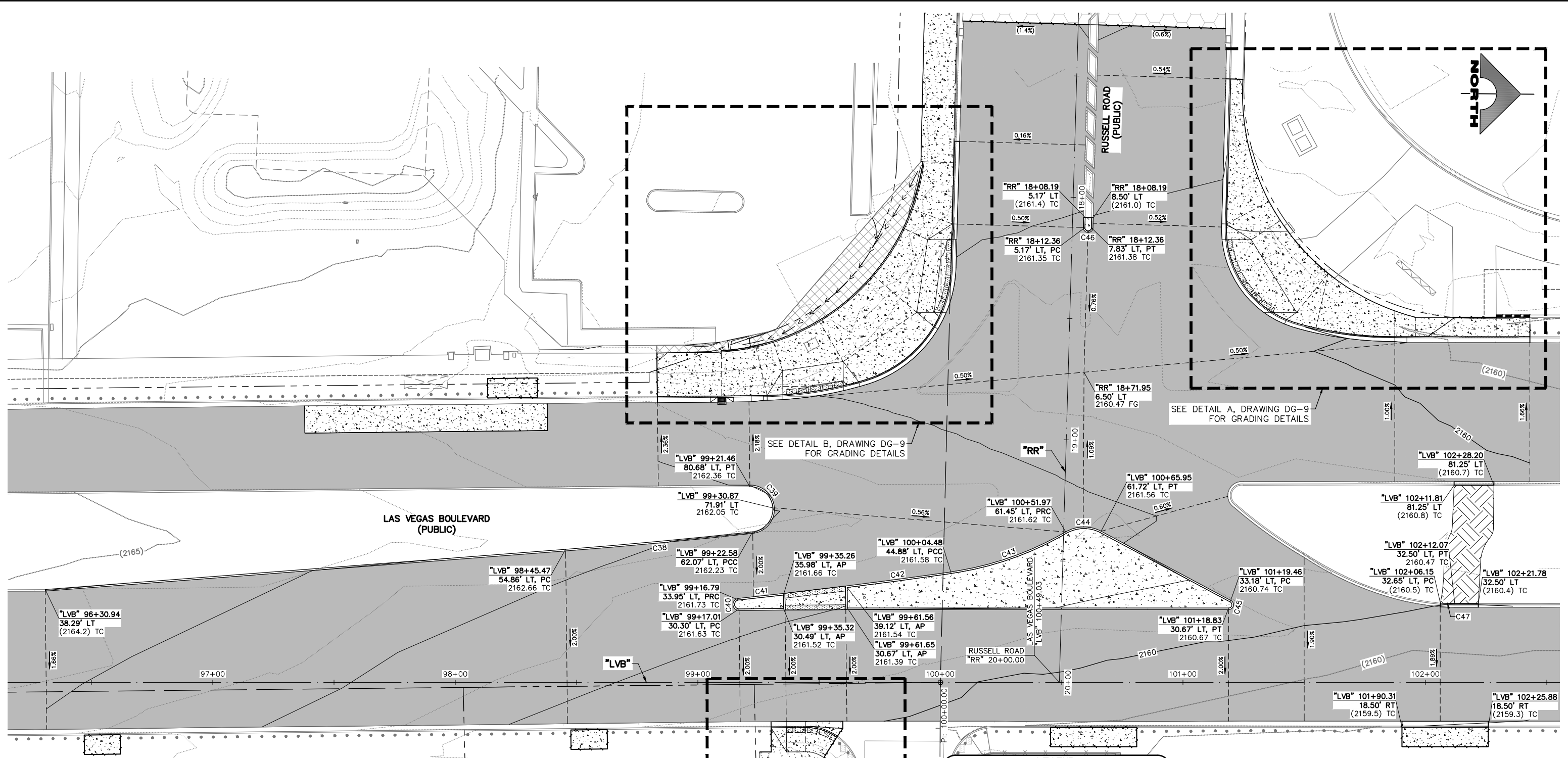
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
**DG-5**  
SHT. 86 OF 159  
L-2272

BID NO.: 605718-20





CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C38	FC	2400.00'	77.47'	1°50'58"	38.74'
C39	FC	10.00'	30.43'	174°20'11"	202.17'
C40	FC	2.50'	7.62'	174°32'40"	52.47'
C41	FC	2426.00'	19.31'	0°27'22"	9.66'
C42	FC	2426.00'	43.89'	1°02'11"	21.94'

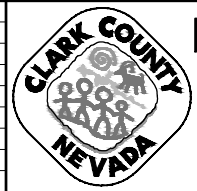
CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C43	FC	130.00'	50.35'	22°11'26"	25.49'
C44	FC	15.00'	15.29'	58°24'48"	8.39'
C45	FC	2.00'	5.30'	151°55'14"	8.00'
C46	FC	2.00'	6.28'	180°00'00"	INFINITY
C47	BC	120.00'	5.92'	2°49'37"	2.96'

**LEGEND**

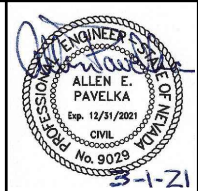
- PLANTMIX BITUMINOUS SURFACE
- CONCRETE MEDIAN SURFACE/SIDEWALK
- DECORATIVE ROCK
- LANDSCAPING

**KEY MAP**

REV. NO.	DATE	DESCRIPTION	APPROVED



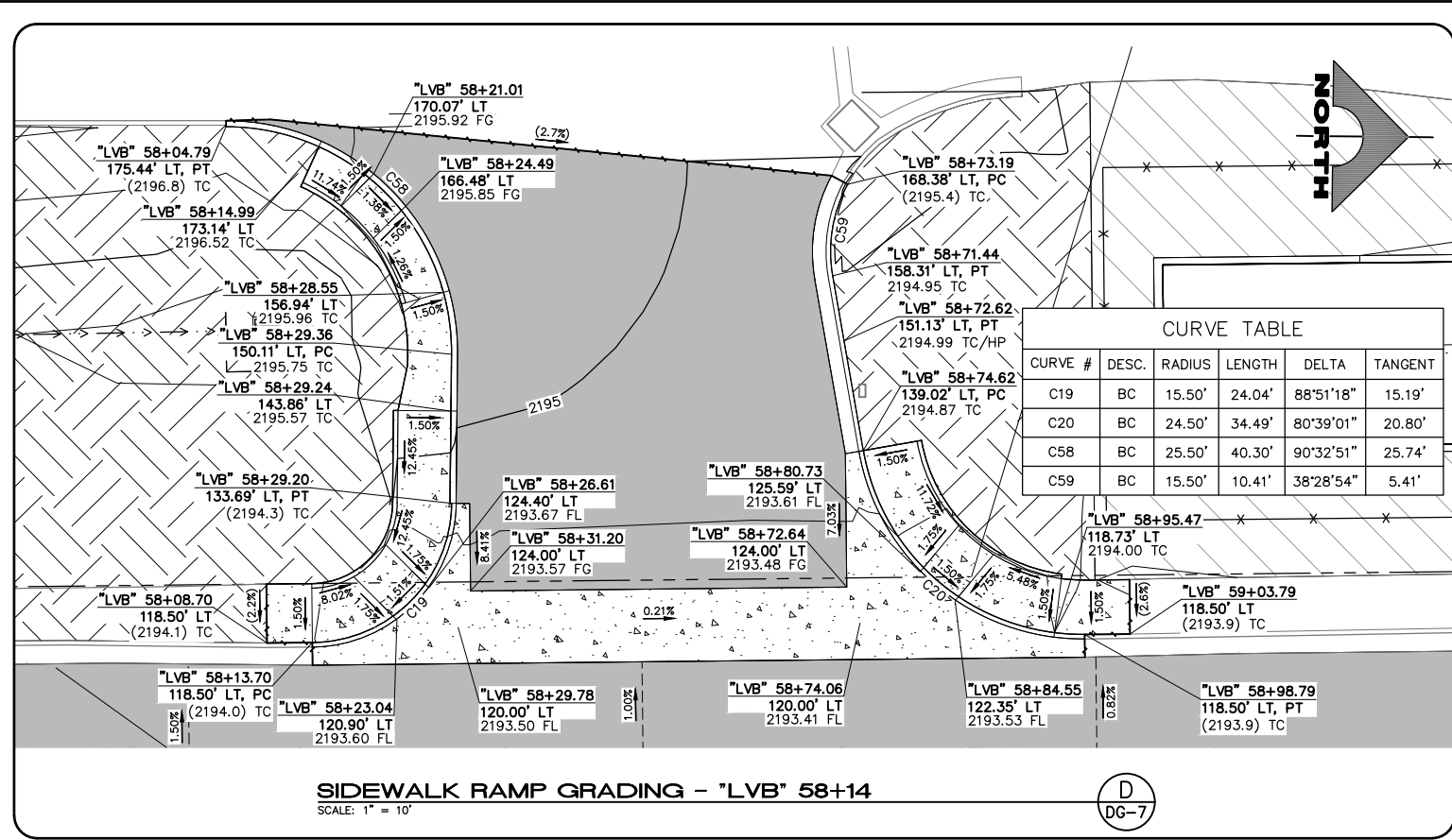
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
**"LVB" 96+25.00 TO "LVB" 102+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

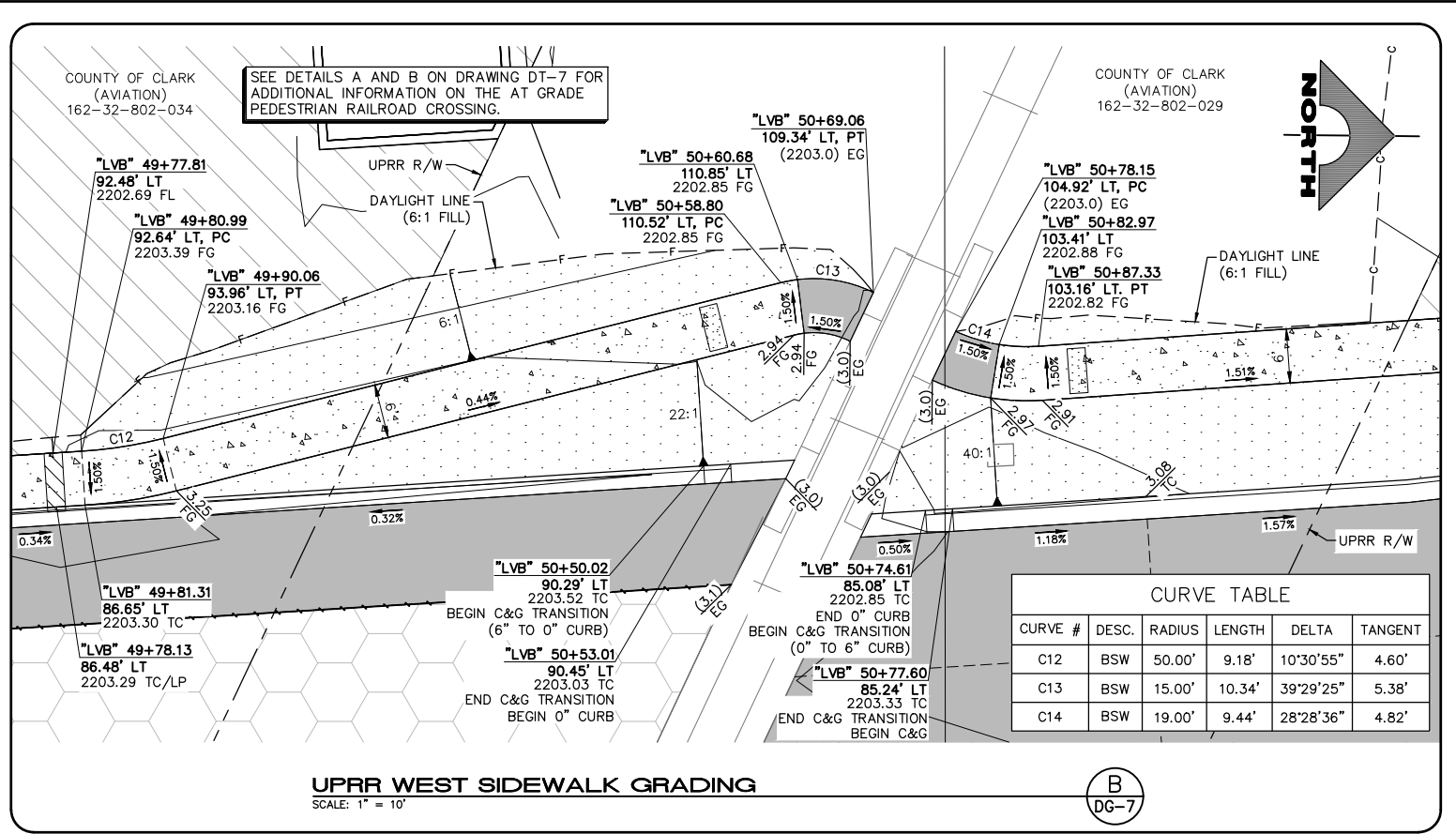
SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK: \_\_\_\_\_  
 DRAWING NO. **DG-6**  
 SH. 87 OF 159  
 L-2272





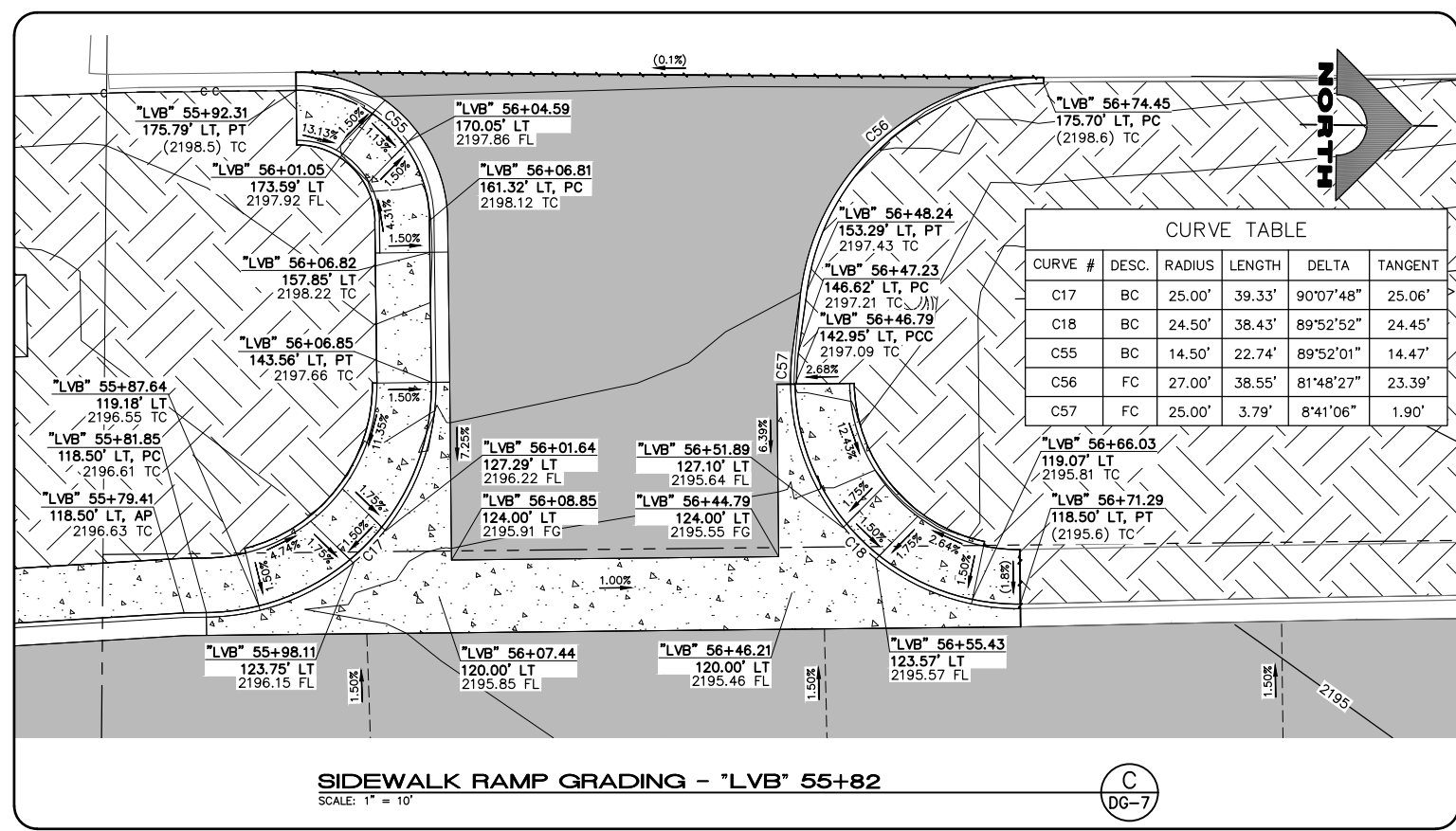
**SIDEWALK RAMP GRADING - "LVB" 58+14**  
SCALE: 1" = 10'

CURVE TABLE				
CURVE #	DESC.	RADIUS	LENGTH	TANGENT
C19	BC	15.50'	24.04'	88°51'18"
C20	BC	24.50'	34.49'	80°39'01"
C58	BC	25.50'	40.30'	90°32'51"
C59	BC	15.50'	10.41'	38°28'54"



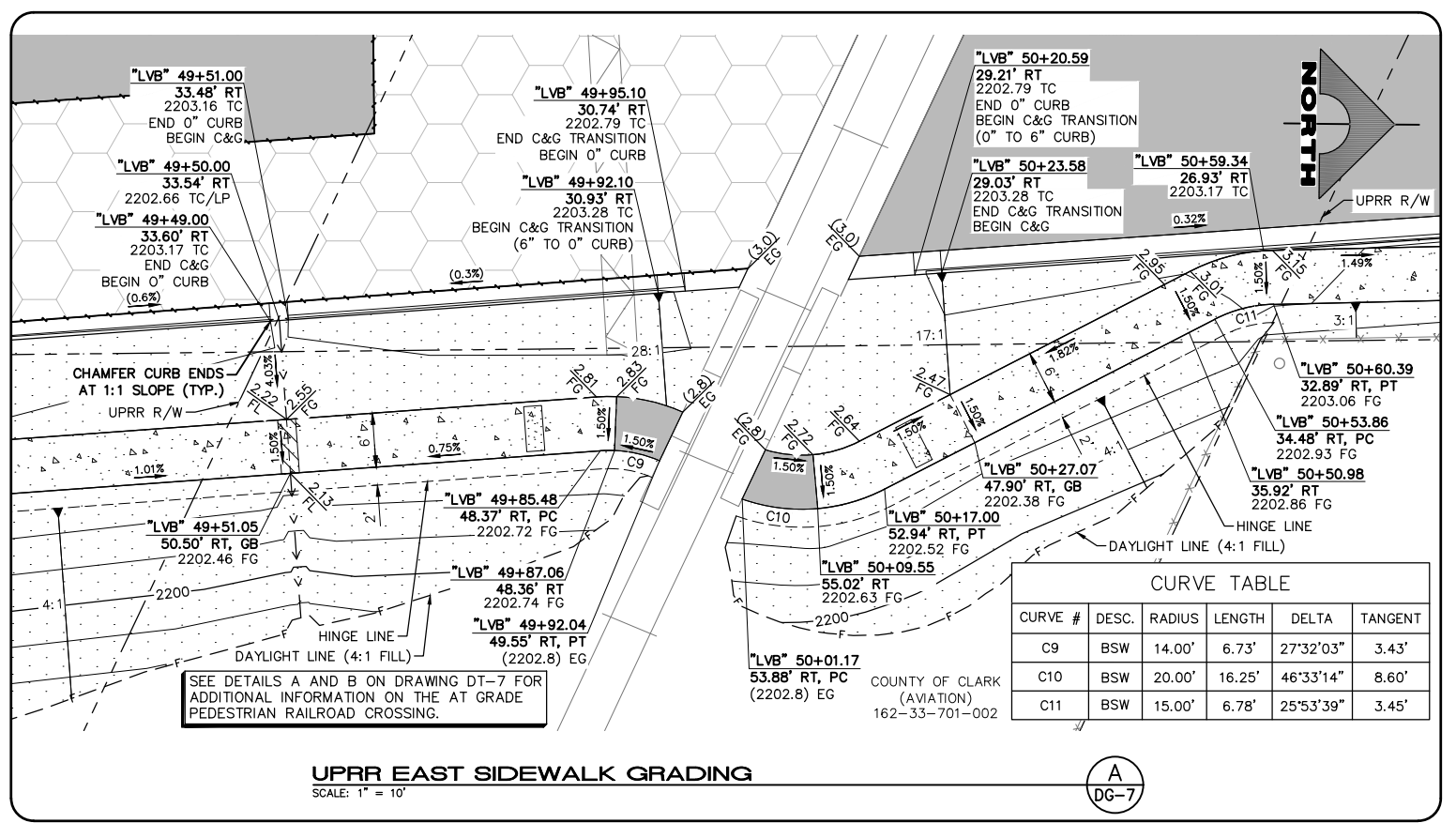
**UPRR WEST SIDEWALK GRADING**  
SCALE: 1" = 10'

CURVE TABLE				
CURVE #	DESC.	RADIUS	LENGTH	TANGENT
C12	BSW	50.00'	9.18'	10°30'55"
C13	BSW	15.00'	10.34'	39°29'25"
C14	BSW	19.00'	9.44'	28°28'36"



**SIDEWALK RAMP GRADING - "LVB" 55+82**  
SCALE: 1" = 10'

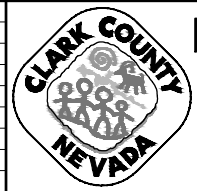
CURVE TABLE				
CURVE #	DESC.	RADIUS	LENGTH	TANGENT
C17	BC	25.00'	39.33'	90°07'48"
C18	BC	24.50'	38.43'	89°52'52"
C55	BC	14.50'	22.74'	89°52'01"
C56	FC	27.00'	38.55'	81°48'27"
C57	FC	25.00'	3.79'	8°41'06"



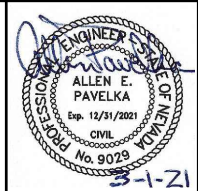
**UPRR EAST SIDEWALK GRADING**  
SCALE: 1" = 10'

CURVE TABLE				
CURVE #	DESC.	RADIUS	LENGTH	TANGENT
C9	BSW	14.00'	6.73'	27°32'03"
C10	BSW	20.00'	16.25'	46°33'14"
C11	BSW	15.00'	6.78'	25°53'39"

F:\Projects\500\500-897-LV\DWG\Production\Phase B\09\_LVB\_DG\_Sheets.dwg  
 02-26-21 09:35:36  
 dhines



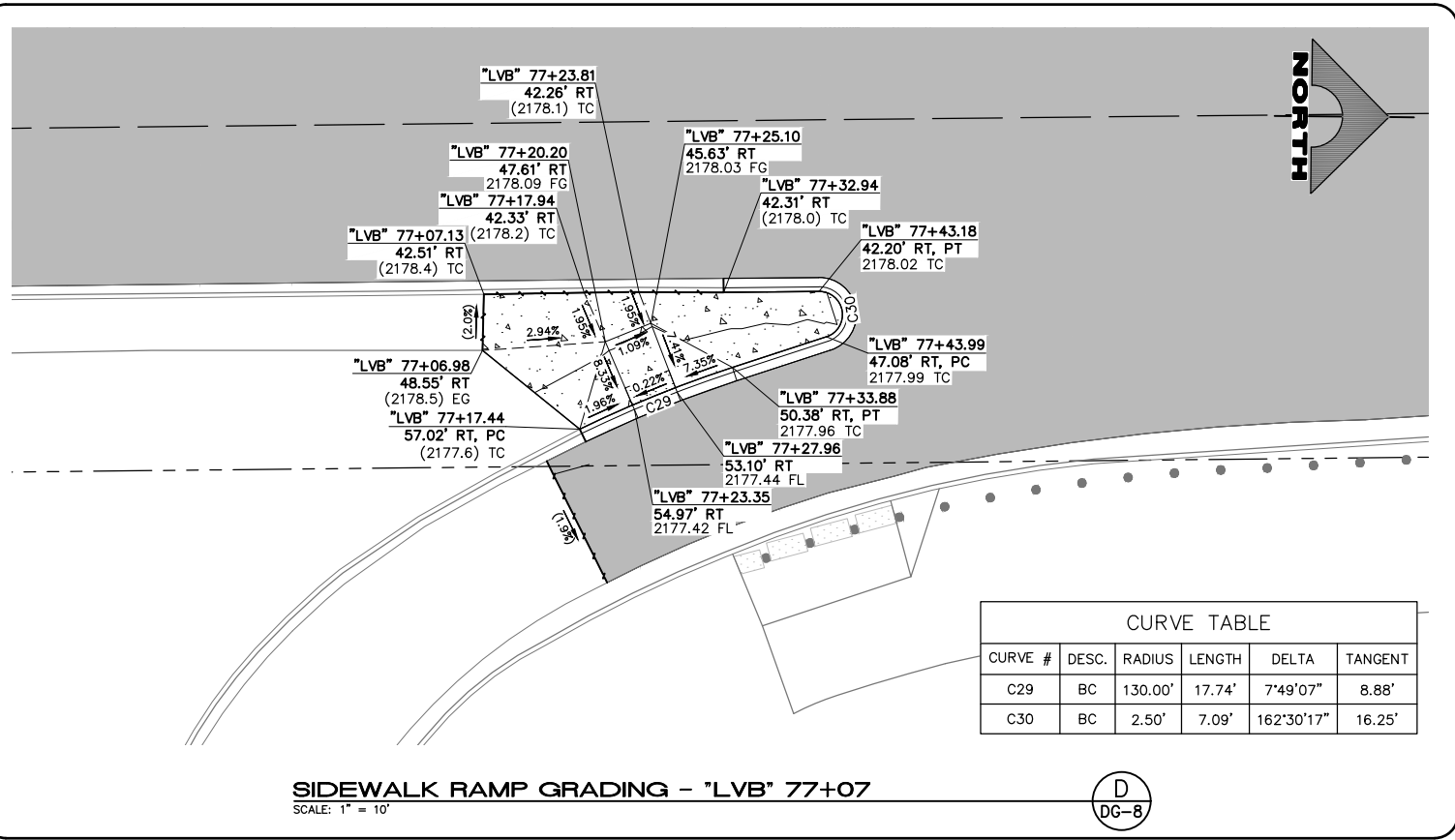
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

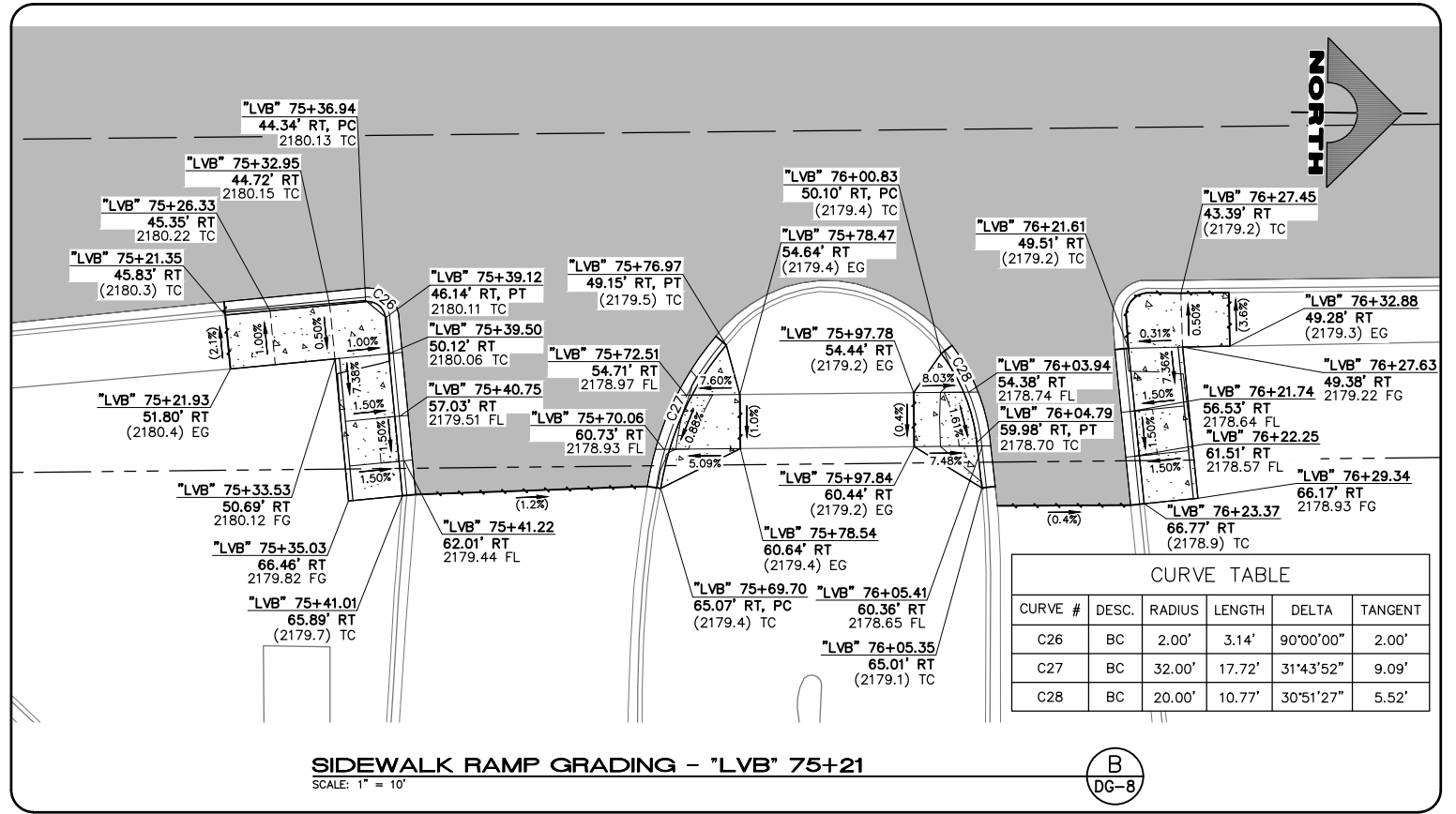
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>DG-7</b>
VERT: NONE	SHT. 88 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



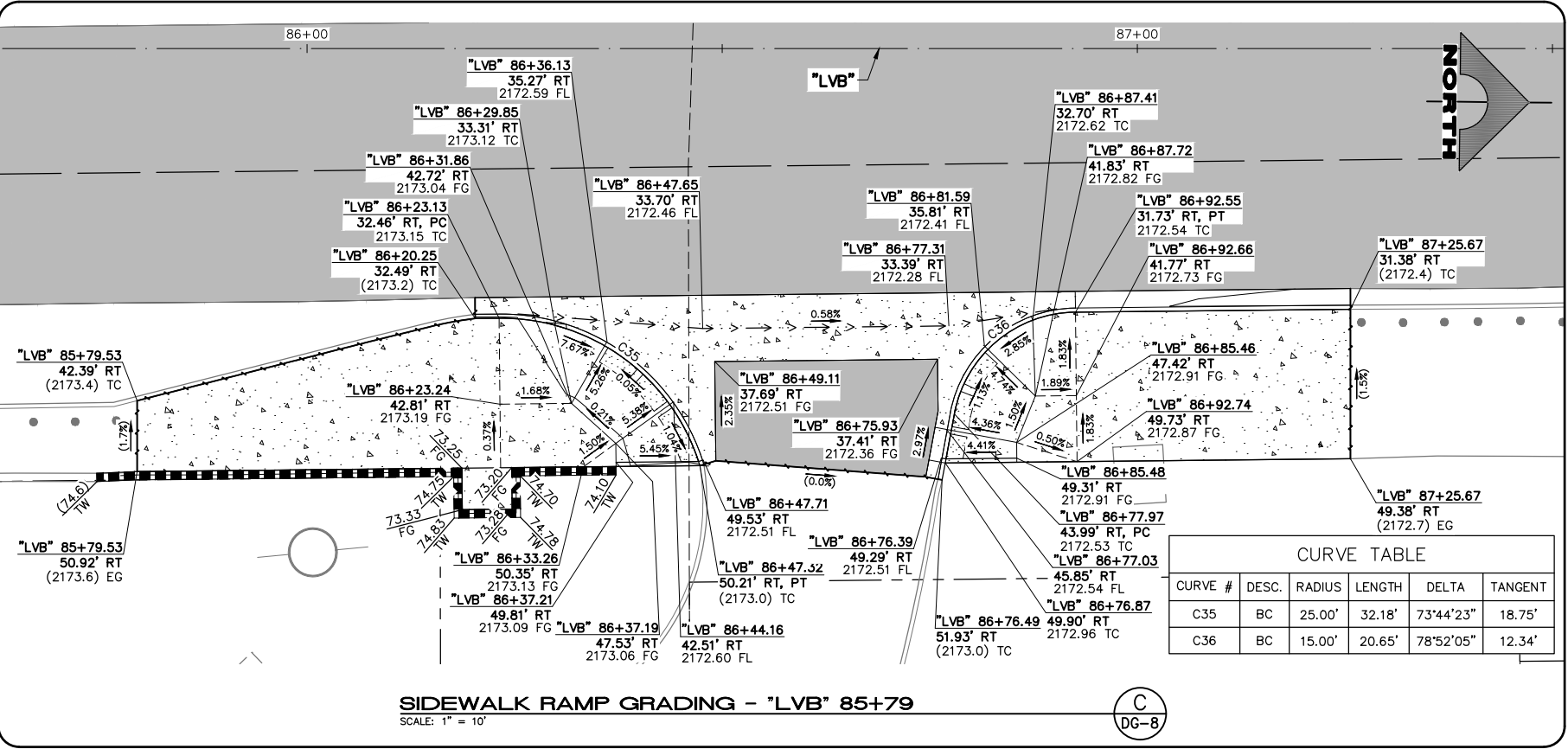
SIDEWALK RAMP GRADING - "LVB" 77+07  
SCALE: 1" = 10'

D  
DG-8



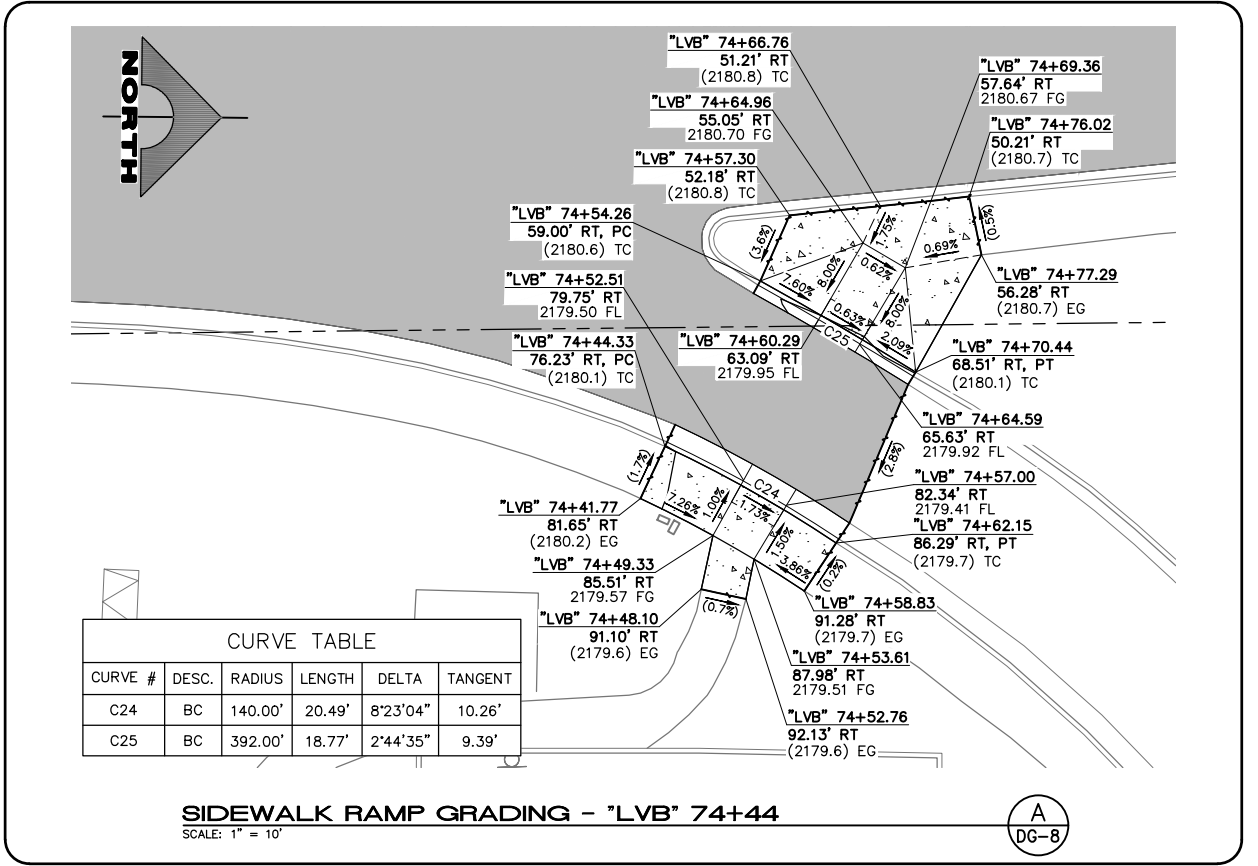
SIDEWALK RAMP GRADING - "LVB" 75+21  
SCALE: 1" = 10'

B  
DG-8



SIDEWALK RAMP GRADING - "LVB" 85+79  
SCALE: 1" = 10'

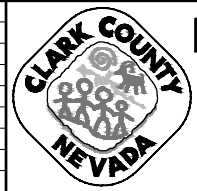
C  
DG-8



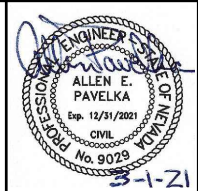
SIDEWALK RAMP GRADING - "LVB" 74+44  
SCALE: 1" = 10'

A  
DG-8

F:\Projects\500\500-897-LV\DWG\Production\Phase B\09\_LVB\_DG\_Sheets.dwg



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 DETAILED GRADING PLAN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

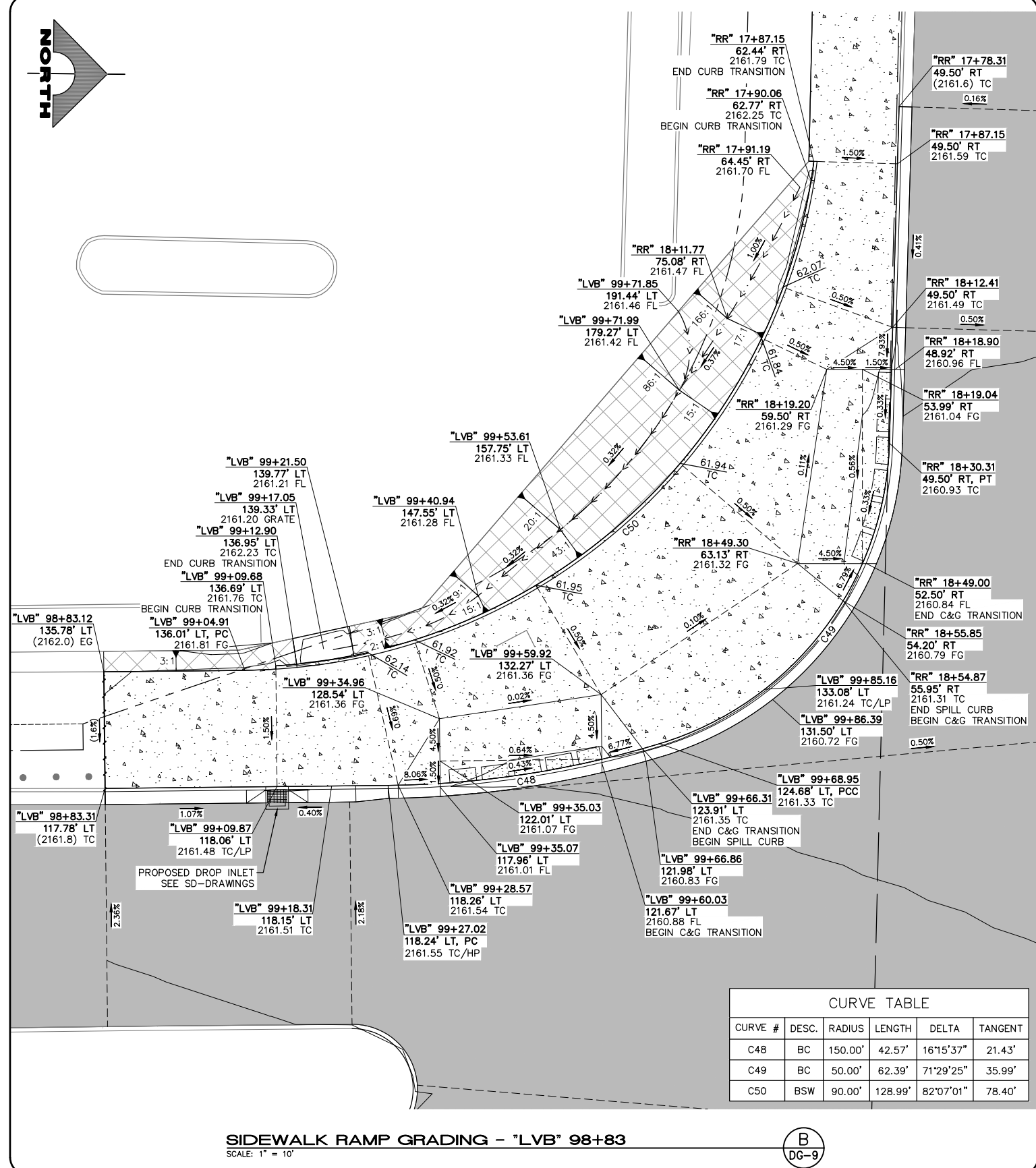
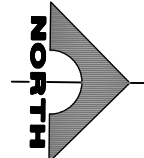
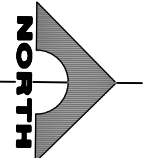


PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY:   
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

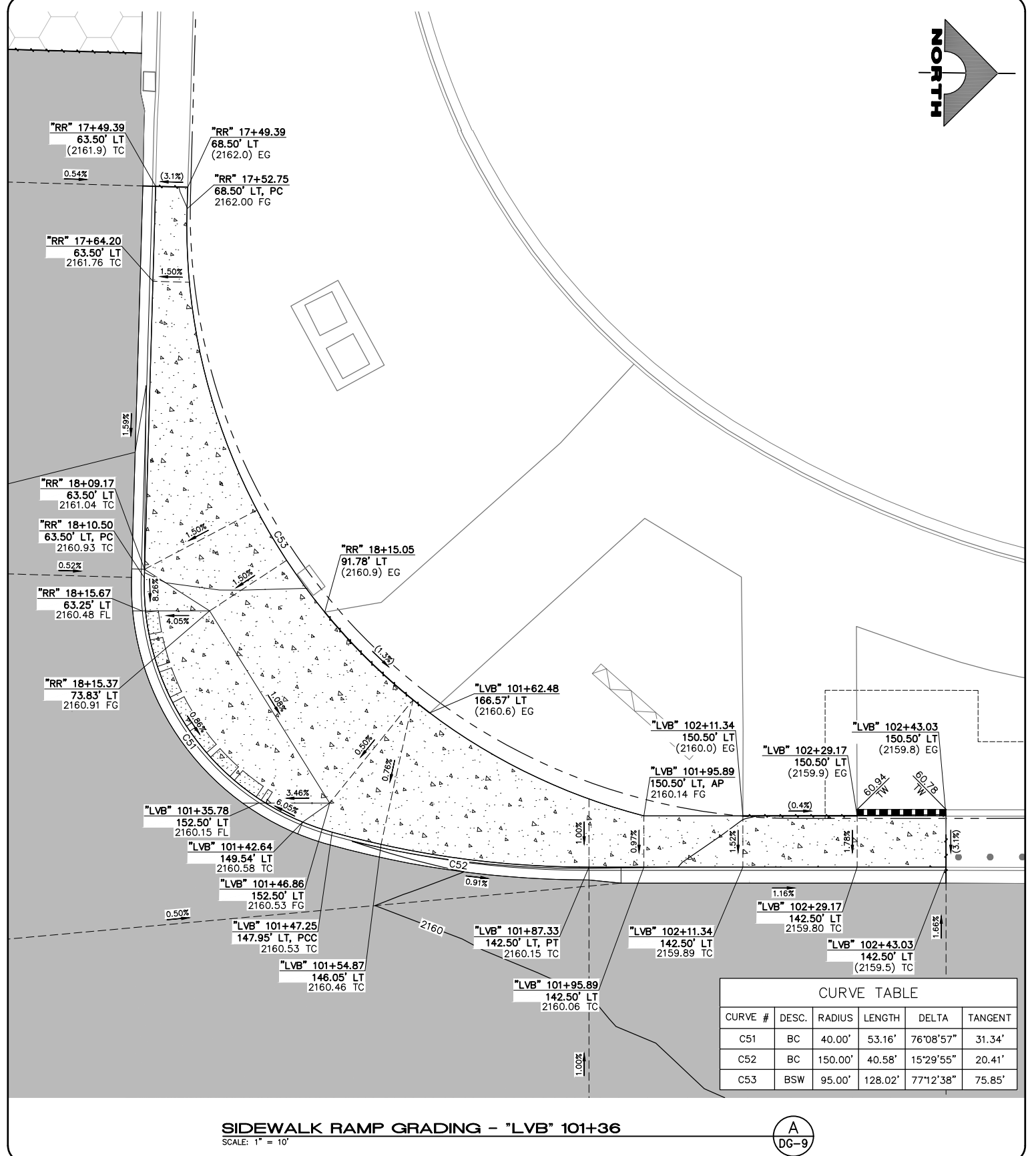
SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-8
VERT: NONE	SHT. 89 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED





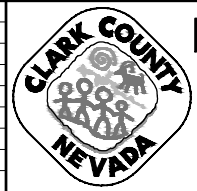
SIDEWALK RAMP GRADING - "LVB" 98+83  
SCALE: 1" = 10'



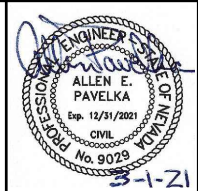
SIDEWALK RAMP GRADING - "LVB" 101+36  
SCALE: 1" = 10'



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 DETAILED GRADING PLAN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE		DRAWING NO.
HORIZ: AS SHOWN		DG-9
VERT: NONE		SHT. 90 OF 159
FIELD BOOK		L-2272

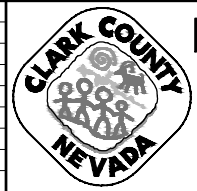
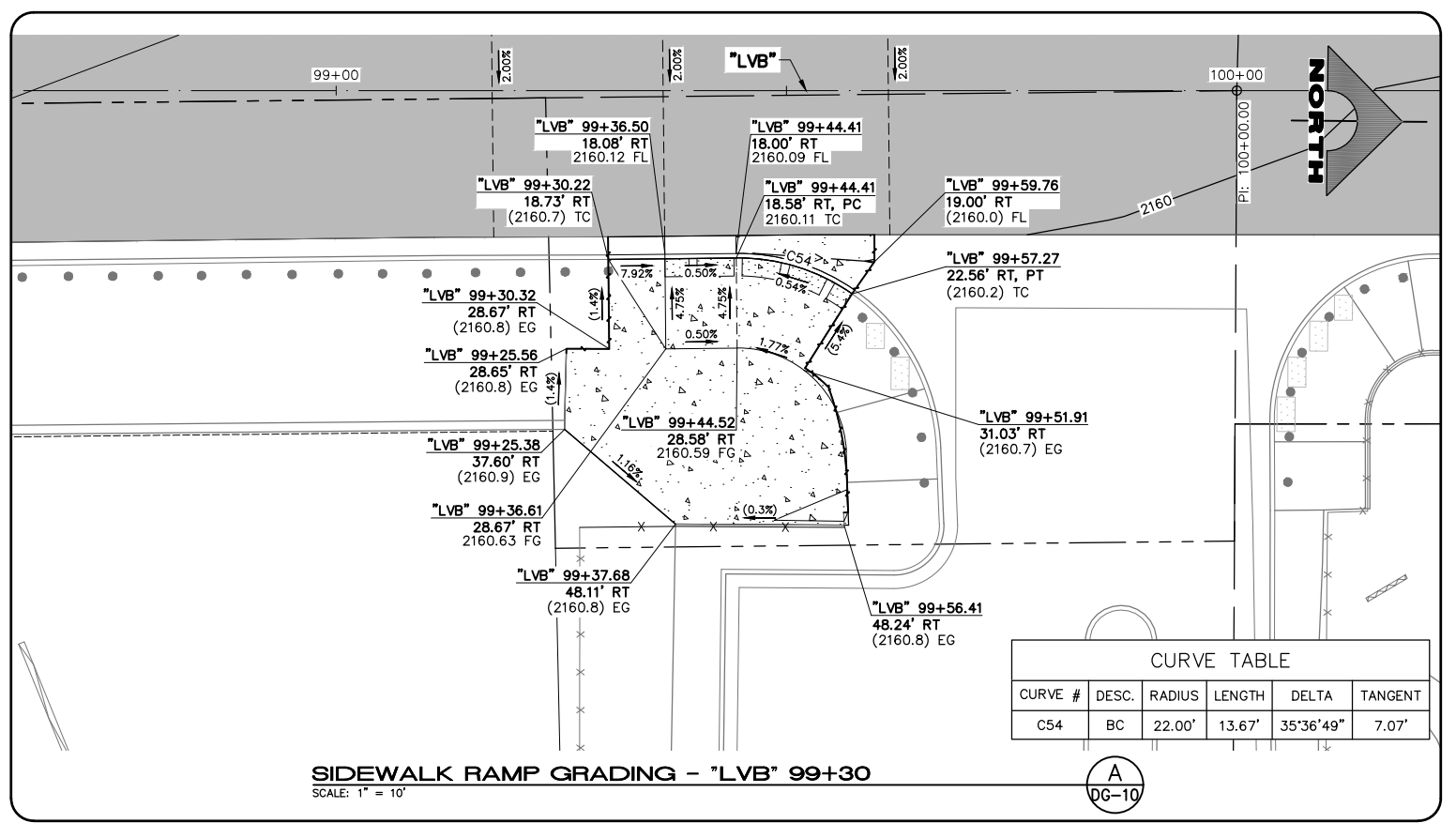
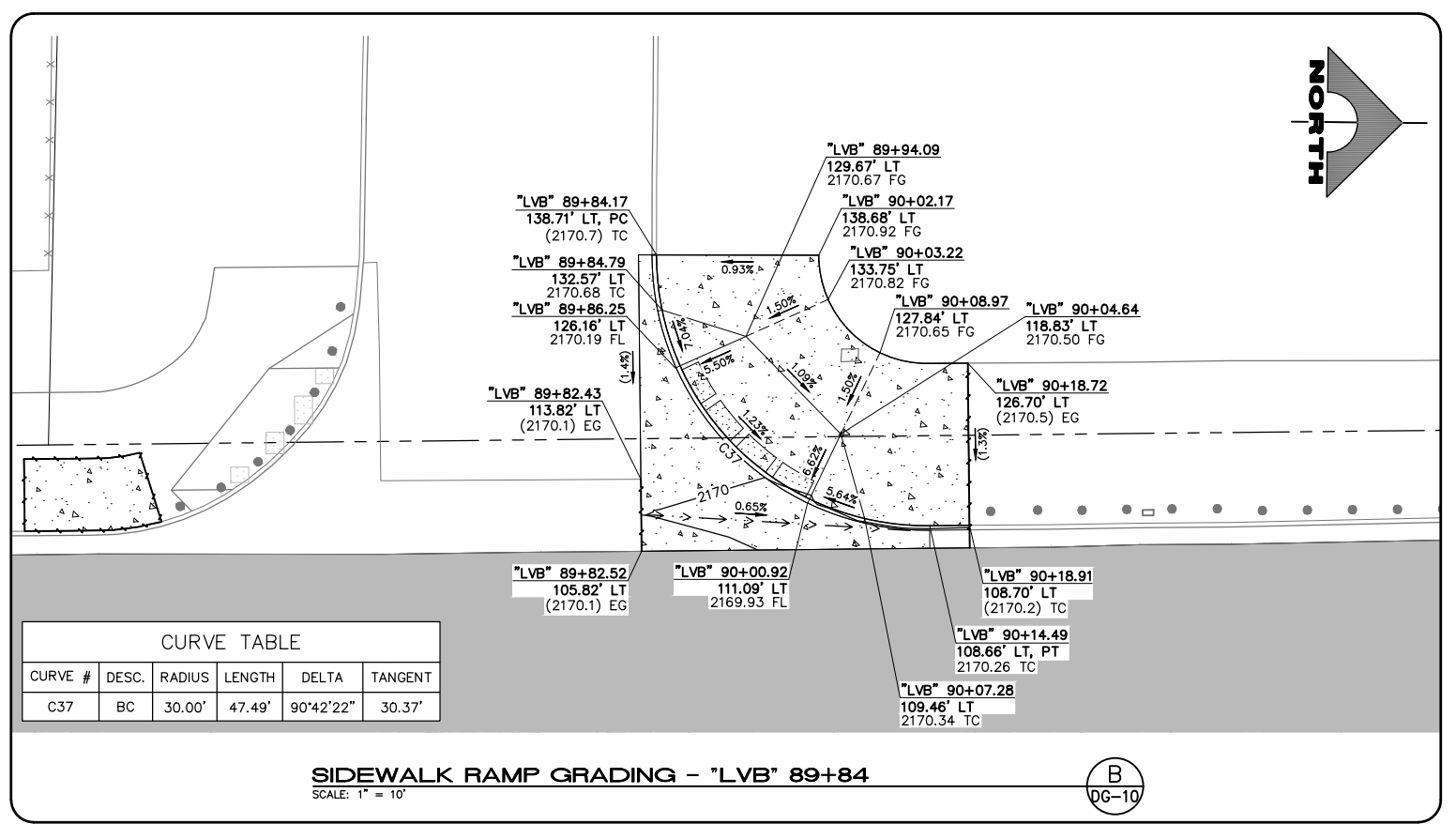
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

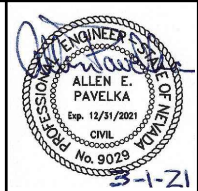


F:\Projects\500\500-897-LV\DWG\Production\Phase B\09\_LVB\_DC\_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**DETAILED GRADING PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



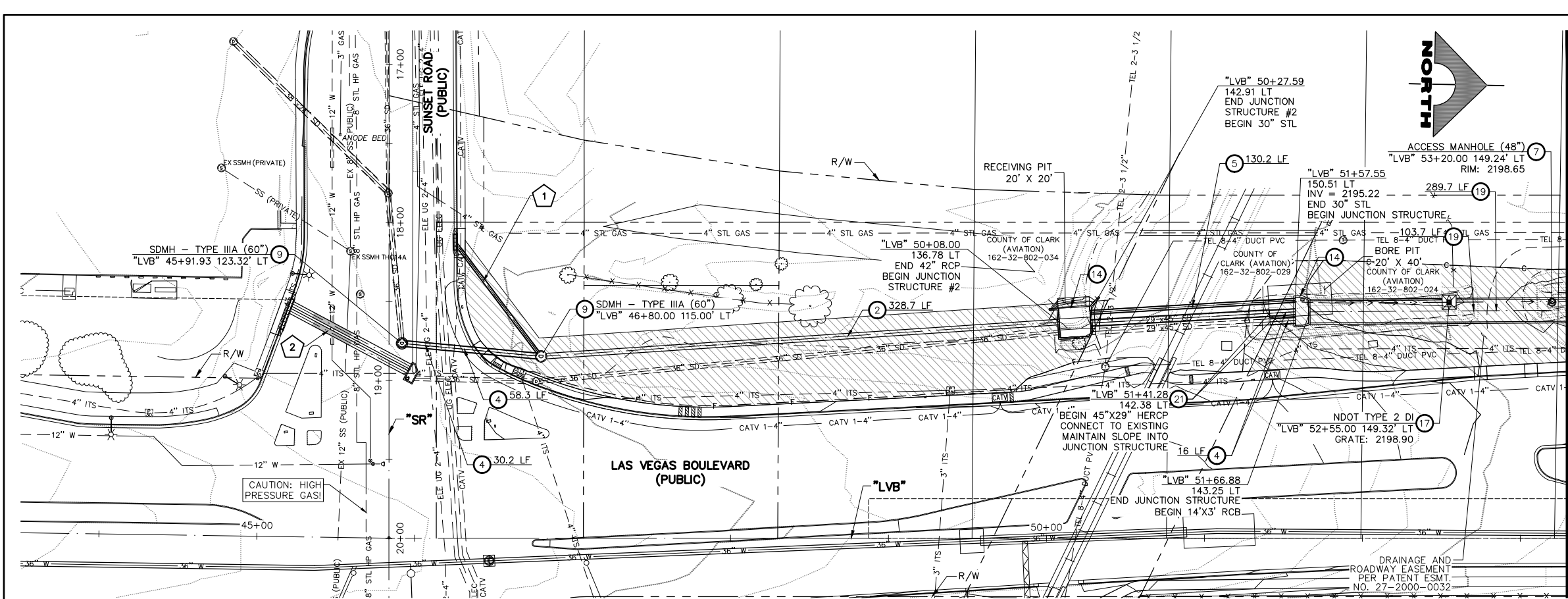
PROJECT No: 500-897-LV DRAWN BY: DSH  
 DESIGNED BY: DSH CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-10
VERT: NONE	SHT. 91 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

BID NO: 605718-20



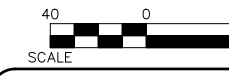
"LVB" 53+29.00 MATCHLINE SEE DRAWING NO. SD-2

- ### STORM DRAIN NOTES
- INSTALL 24-INCH RCP STORM DRAIN
  - INSTALL 42-INCH RCP STORM DRAIN
  - INSTALL (2) 38"X24" HERCP STORM DRAIN
  - INSTALL 45"X29" HERCP STORM DRAIN
  - INSTALL 30-INCH STEEL CASING (1/2" THICK) STORM DRAIN (JACK AND BORE)
  - INSTALL 12-INCH C900 PVC STORM DRAIN
  - INSTALL 48-INCH STORM DRAIN ACCESS MANHOLE
  - INSTALL TYPE 1A MANHOLE (USDCCA STD. DWG. NO. 404)
  - INSTALL TYPE IIIA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 406)
  - CONSTRUCT TYPE "CM" DROP INLET (USDCCA STD. DWG. NO. 422)
  - CONSTRUCT TYPE "DM2" DROP INLET (USDCCA STD. DWG. NO. 412.1)
  - CONSTRUCT TYPE 3 DROP INLET (NDOT STD. DETAIL NOS. DS-35A & DS-35B AND USDCCA STD. DWG. NO. 421)
  - CONSTRUCT TYPE 3A DROP INLET (NDOT STD. DETAIL NOS. DS-36A & DS-36B AND USDCCA STD. DWG. NO. 421)
  - CONSTRUCT JUNCTION STRUCTURE (SEE DWG. S-5 TO S-7)
  - CONSTRUCT HEADWALL (SEE DWG. S-2 AND S-3)
  - INSTALL RIPRAP PAD (D50=12", T=24")
  - CONSTRUCT TYPE 2 DROP INLET WITH CONCRETE APRON (NDOT STD. DETAIL NOS. DS-32 & DS-42 AND USDCCA STD. DWG. NO. 421)
  - INSTALL ELASTOMERIC JOINTS AND CEMENT SLURRY (CLSM II) ENCASEMENT 10' MIN. ON EACH SIDE OF THE CROSSING PER UDACS 2.22.02
  - INSTALL 14'X3' RCB STORM DRAIN (SEE DETAIL 2, DWG. S-7)
  - INSTALL 18-INCH RCP STORM DRAIN
  - CONSTRUCT RCP COLLAR (SEE DETAIL 3, DWG. S-6)
  - CONSTRUCT REINFORCED CONCRETE ENCASEMENT (DCSWCS STD. DWG. SD-14)
  - CONSTRUCT LOW FLOW CHANNEL (SEE DETAIL 3, DWG. S-7)
  - PROTECT-IN-PLACE

- ### NOTES
- SEE R-DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, INLETS, AND HEADWALLS.
  - ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
  - STORM DRAIN MANHOLES AS SHOWN IN PROFILE SHALL BE CONSTRUCTED PER "UNIFORM CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION, UNLESS OTHERWISE NOTED.
  - ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.

### LEGEND

X SEE STORM DRAIN PROFILES SD-3 THRU SD-5



### SOUTHWEST GAS VALVE NOTE

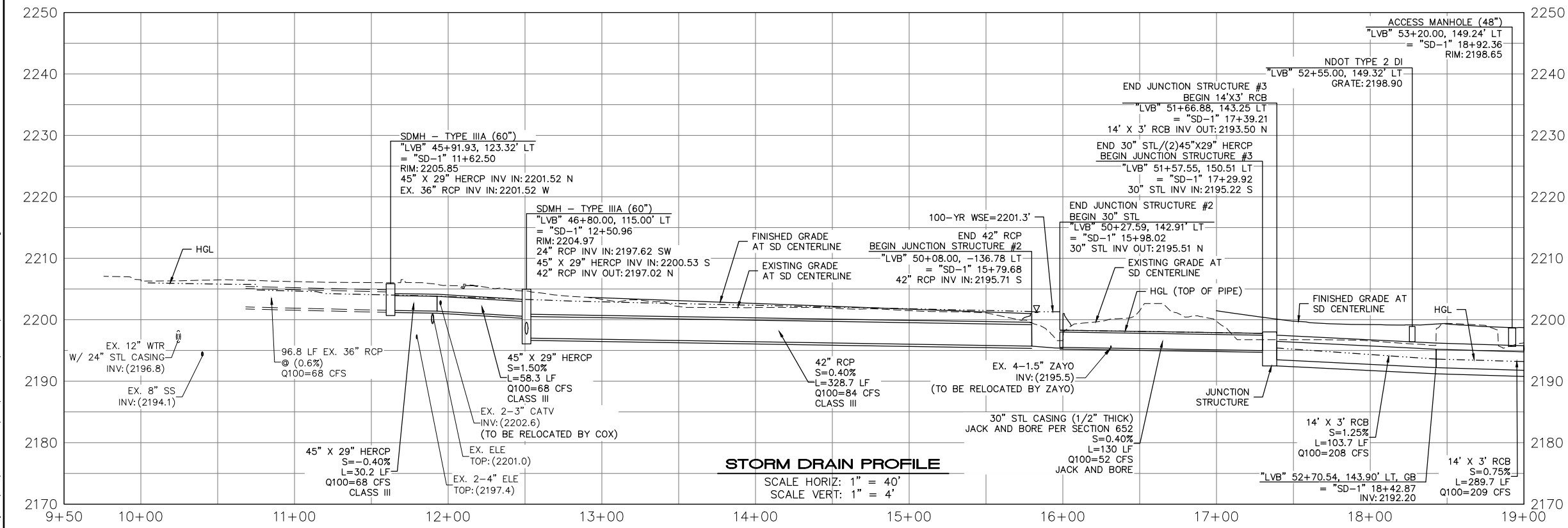
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

### CLARK COUNTY WATER RECLAMATION DISTRICT

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20,793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

### APPROVED FOR CONSTRUCTION

SIGNED BY MIKE DISHARI ON 1/19/21  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



REV. NO.	DATE	DESCRIPTION	APPROVED

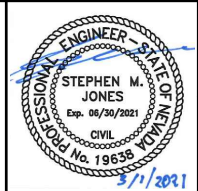


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### STORM DRAIN PLAN AND PROFILE

#### "LVB" 43+50.00 TO "LVB" 53+29.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: SMJ  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: AS SHOWN  
 VERT: AS SHOWN  
 FIELD BOOK

DRAWING NO.  
**SD-1**  
 SHT. 92 OF 159  
 L-2272

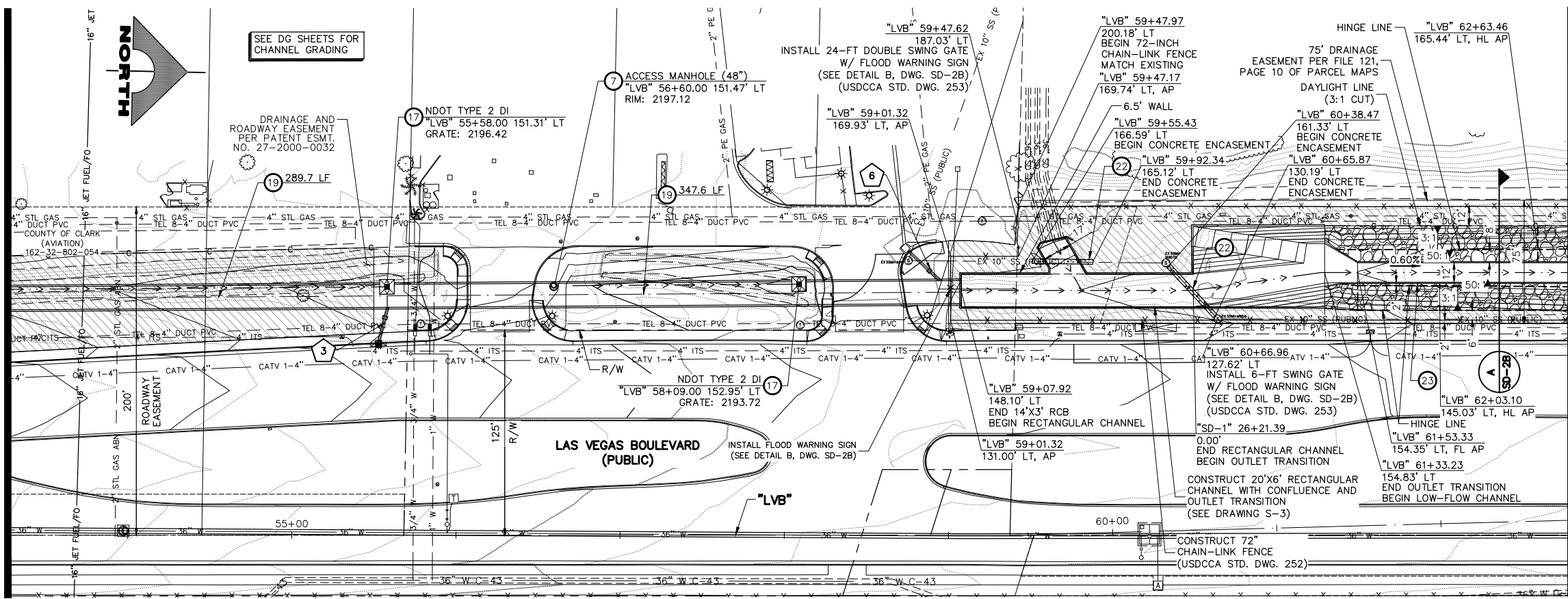
dhines 02-26-21 10:02:20 F:\Projects\500\500-897-LV\DWG\Production\Phase B\10\_LVB\_SD Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

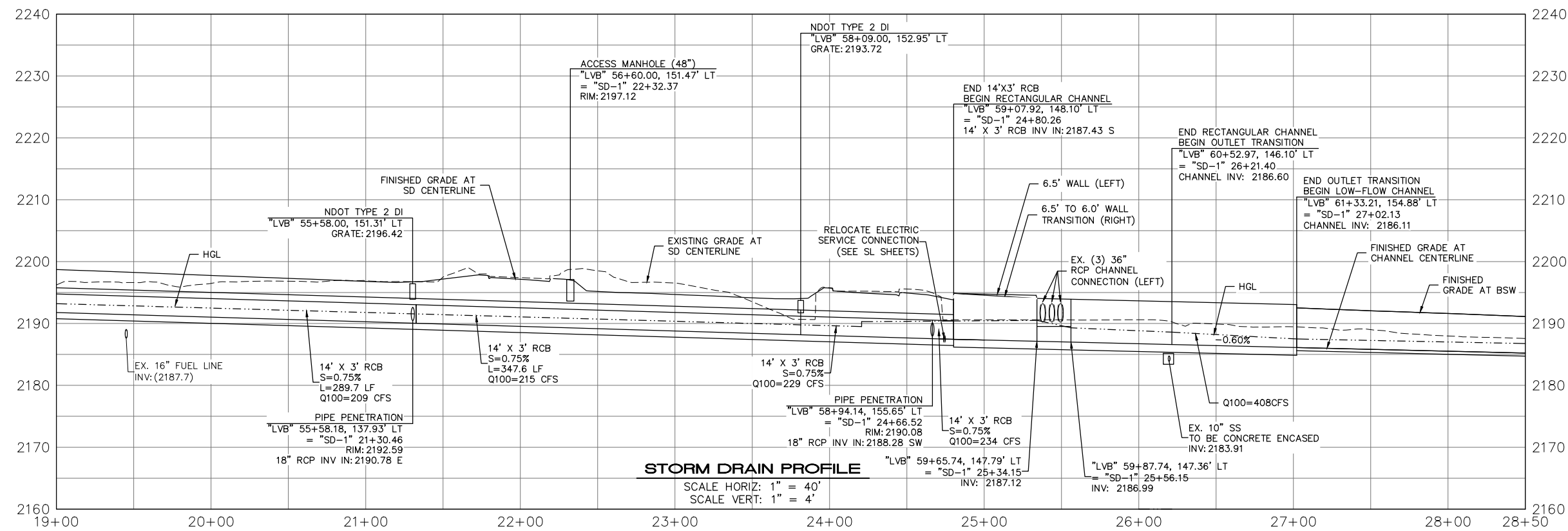


"LVB" 53+29.00 MATCHLINE SEE DRAWING NO. SD-1

"LVB" 62+77.00 MATCHLINE SEE DRAWING NO. SD-2A



- ### STORM DRAIN NOTES
- INSTALL 24-INCH RCP STORM DRAIN
  - INSTALL 42-INCH RCP STORM DRAIN
  - INSTALL (2) 38"x24" HERCP STORM DRAIN
  - INSTALL 45"x29" HERCP STORM DRAIN
  - INSTALL 30-INCH STEEL CASING (1/2" THICK) STORM DRAIN (JACK AND BORE)
  - INSTALL 12-INCH C900 PVC STORM DRAIN
  - INSTALL 48-INCH STORM DRAIN ACCESS MANHOLE
  - INSTALL TYPE 1A MANHOLE (USDCCA STD. DWG. NO. 404)
  - INSTALL TYPE IIIA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 406)
  - CONSTRUCT TYPE "CM" DROP INLET (USDCCA STD. DWG. NO. 422)
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  - CONSTRUCT JUNCTION STRUCTURE (SEE DWG. S-5 TO S-7)
  - CONSTRUCT HEADWALL (SEE DWG. S-2 AND S-3)
  - INSTALL RIPRAP PAD (D50=12", T=24")
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  - INSTALL ELASTOMERIC JOINTS AND CEMENT SLURRY (CLSM II) ENCASEMENT 10' MIN. ON EACH SIDE OF THE CROSSING PER UDACS 2.22.02
  - INSTALL 14'x3' RCB STORM DRAIN (SEE DETAIL 2, DWG. S-7)
  - INSTALL 18-INCH RCP STORM DRAIN
  - CONSTRUCT RCP COLLAR (SEE DETAIL 3, DWG. S-6)
  - CONSTRUCT REINFORCED CONCRETE ENCASEMENT (DCSWCS STD. DWG. SD-14)
  - CONSTRUCT LOW FLOW CHANNEL (SEE DETAIL 3, DWG. S-7)
  - PROTECT-IN-PLACE
- ### NOTES
- SEE R-DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, INLETS, AND HEADWALLS.
  - ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
  - STORM DRAIN MANHOLES AS SHOWN IN PROFILE SHALL BE CONSTRUCTED PER "UNIFORM CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION, UNLESS OTHERWISE NOTED.
  - ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.



### LEGEND

X SEE STORM DRAIN PROFILES SD-3 THRU SD-5

### SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

### CLARK COUNTY WATER RECLAMATION DISTRICT

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

### APPROVED FOR CONSTRUCTION

SIGNED BY MIKE DISHARI ON 1/19/21  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

TRENCH AND TIE-IN SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### STORM DRAIN PLAN AND PROFILE

#### "LVB" 53+29.00 TO "LVB" 62+77.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV	DRAWN BY: JDS	SCALE	HORIZ: AS SHOWN	FIELD BOOK	SHIT. 93 OF 159
DESIGNED BY: JDS	CHECKED BY: SMJ	VERT: AS SHOWN	SD-2		
APPROVED BY: _____	GCV ENGINEERS & SURVEYORS		L-2272		

1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299  
 gcvengineering.com

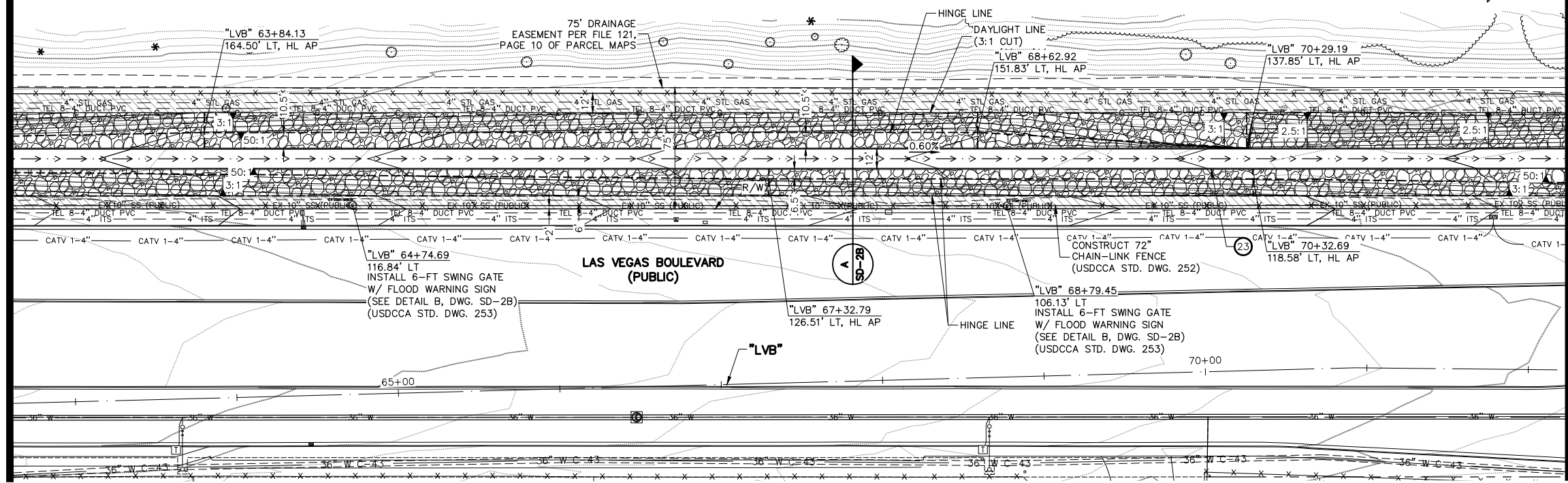
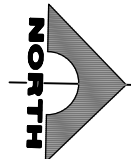
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

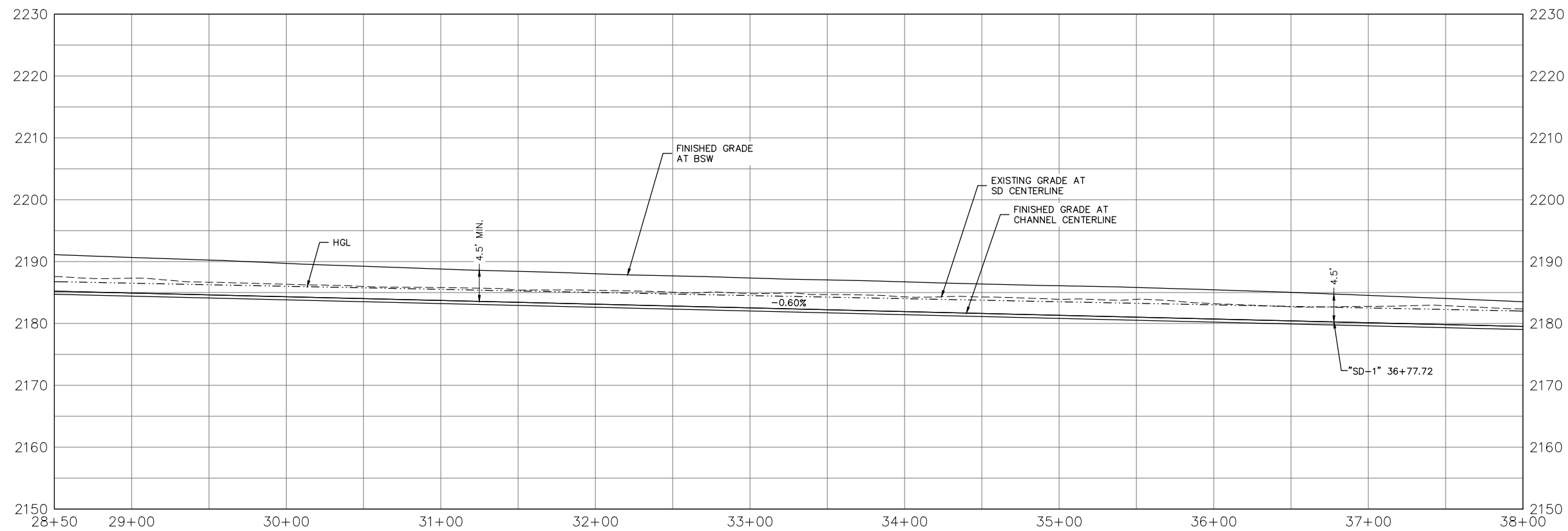


"LVB" 62+77.00 MATCHLINE SEE DRAWING NO. SD-2

"LVB" 72+23.00 MATCHLINE SEE DRAWING NO. SD-2B



- STORM DRAIN NOTES**
1. INSTALL 24-INCH RCP STORM DRAIN
  2. INSTALL 42-INCH RCP STORM DRAIN
  3. INSTALL (2) 38"X24" HERCP STORM DRAIN
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  21. CONSTRUCT RCP COLLAR (SEE DETAIL 3, DWG. S-6)
  22. CONSTRUCT REINFORCED CONCRETE ENCASUREMENT (DCSWCS STD. DWG. SD-14)
  23. CONSTRUCT LOW FLOW CHANNEL (SEE DETAIL 3, DWG. S-7)
  - P. PROTECT-IN-PLACE
- NOTES**
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  4. ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.



**LEGEND**  
X SEE STORM DRAIN PROFILES SD-3 THRU SD-5



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
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LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

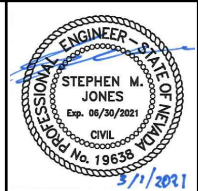


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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STORM DRAIN PLAN AND PROFILE**  
**"LVB" 62+77.00 TO "LVB" 72+23.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: SMJ  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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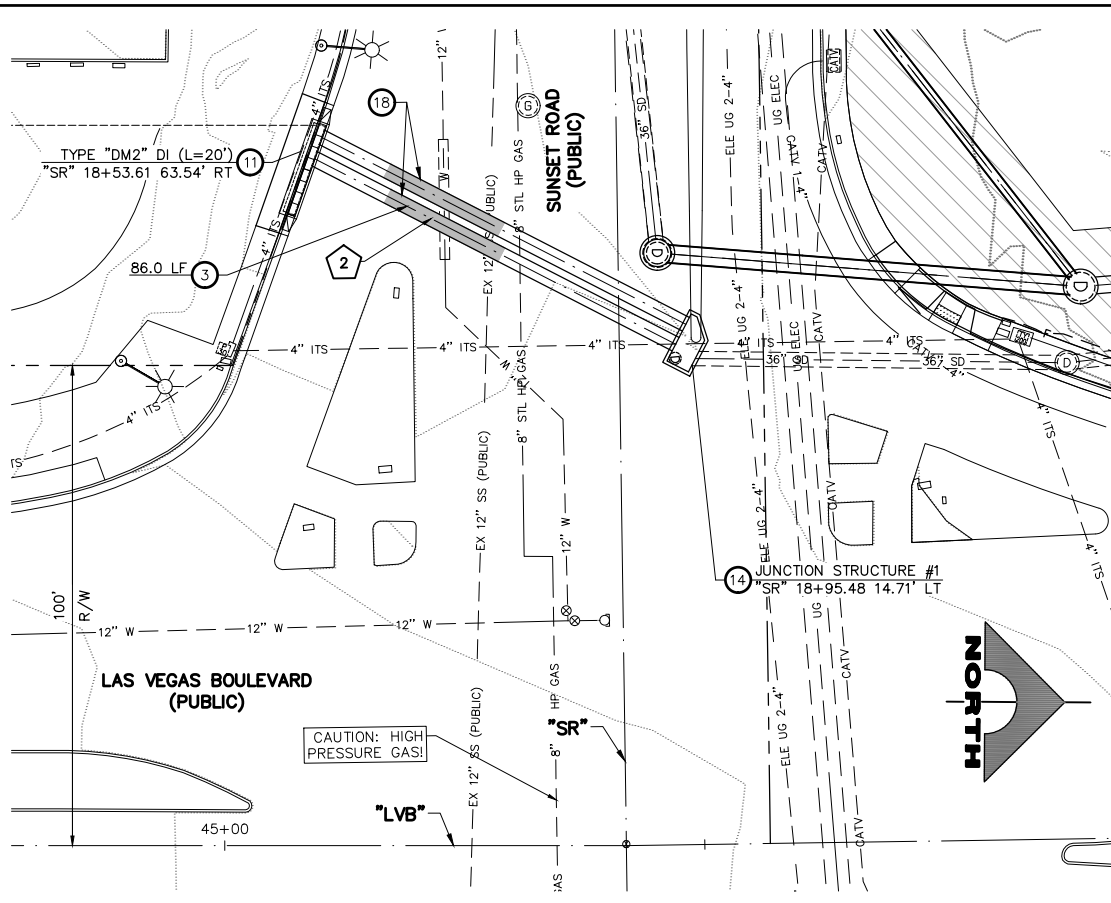
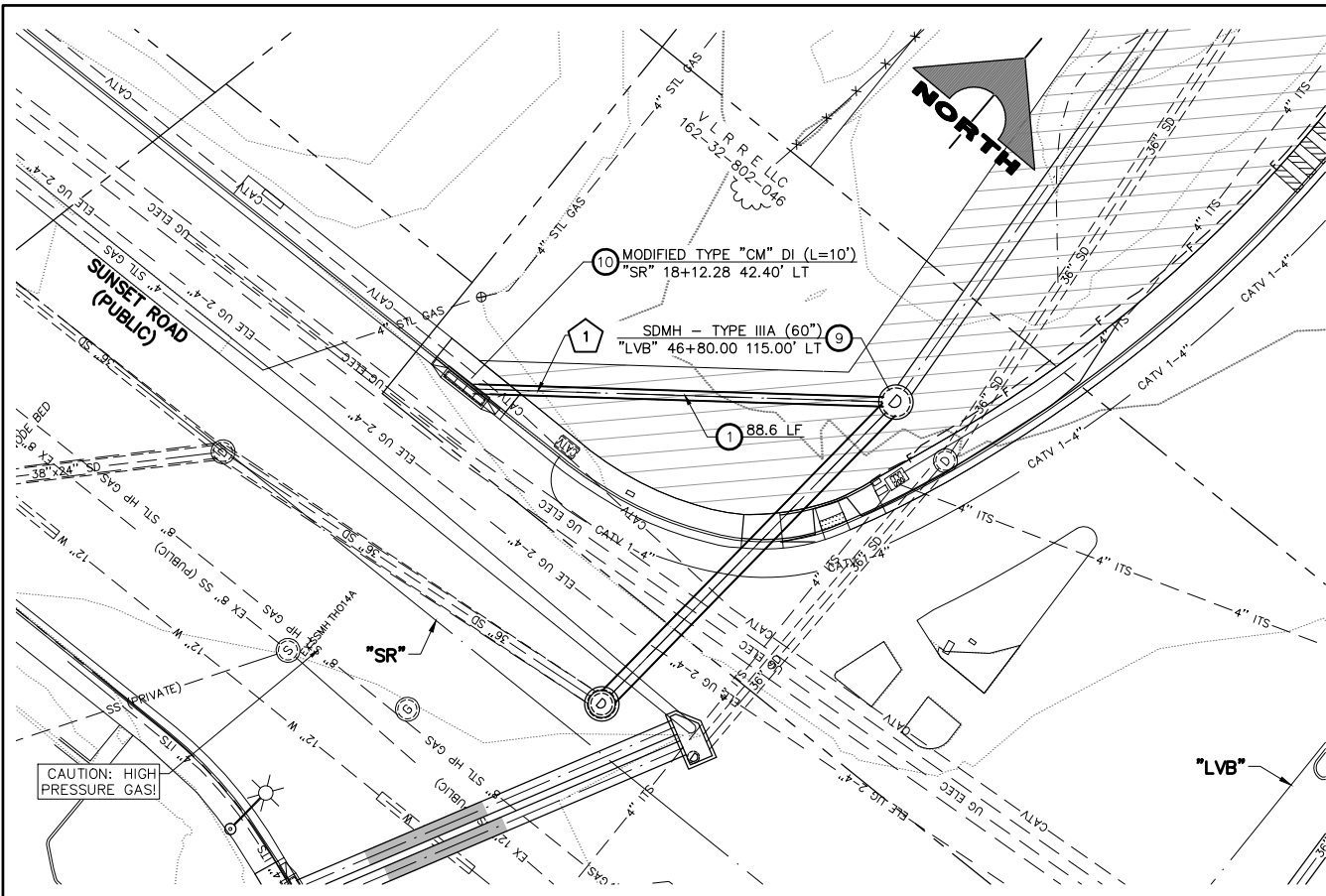
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 VERT: AS SHOWN  
 FIELD BOOK

DRAWING NO.  
**SD-2A**  
 SHT. 93A OF 159  
 L-2272

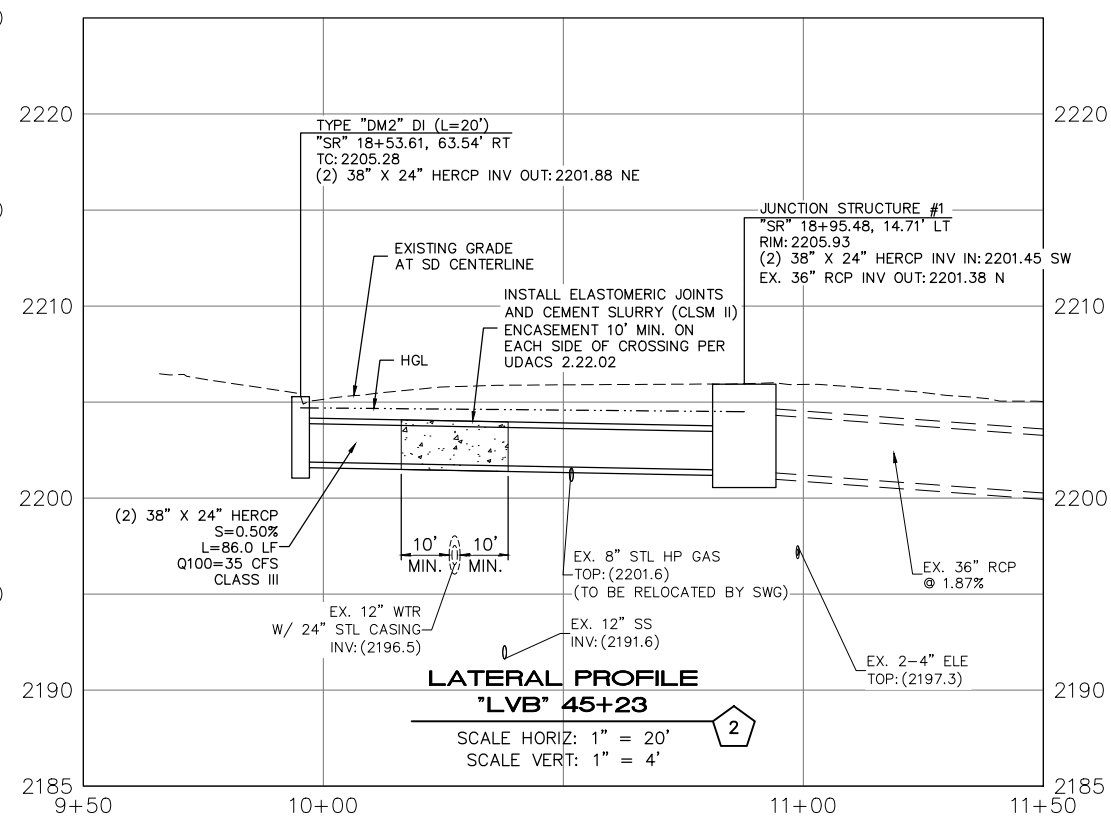
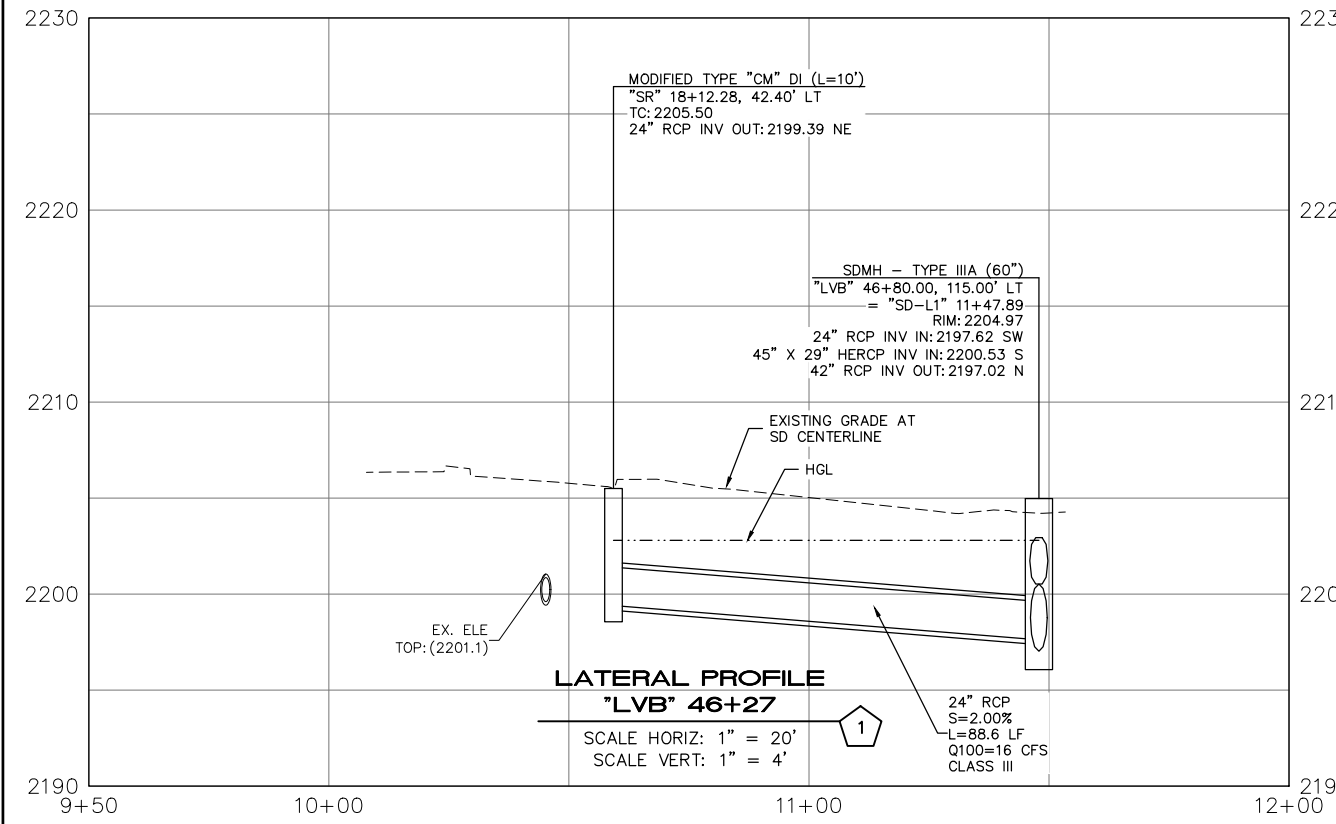
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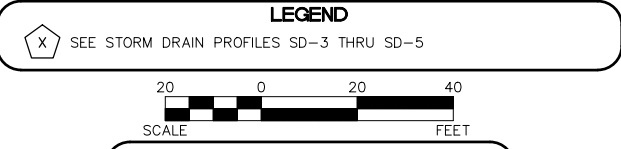




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- LEGEND**
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- SOUTHWEST GAS VALVE NOTE**
- FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.
- CLARK COUNTY WATER RECLAMATION DISTRICT**
- BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_
- CCWRD PIPES NUMBER: 20.793**
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- SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



**CLARK COUNTY WATER RECLAMATION DISTRICT**

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LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
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**811**

1-800-227-2600

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**1-702-432-5300**

TREXWAY AND HISTORICAL SYSTEM OF TRANSPORTATION

**1-702-227-2929**

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**

**STORM DRAIN PLANS AND PROFILES**

**LATERALS 1 & 2**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

PROJECT No: 500-897-LV DRAWN BY: JDS

DESIGNED BY: JDS CHECKED BY: SMJ

APPROVED BY: \_\_\_\_\_

SCALE

HORIZ: AS SHOWN

VERT: AS SHOWN

FIELD BOOK

DRAWN NO. SD-3

SHT. 94 OF 159

L-2272

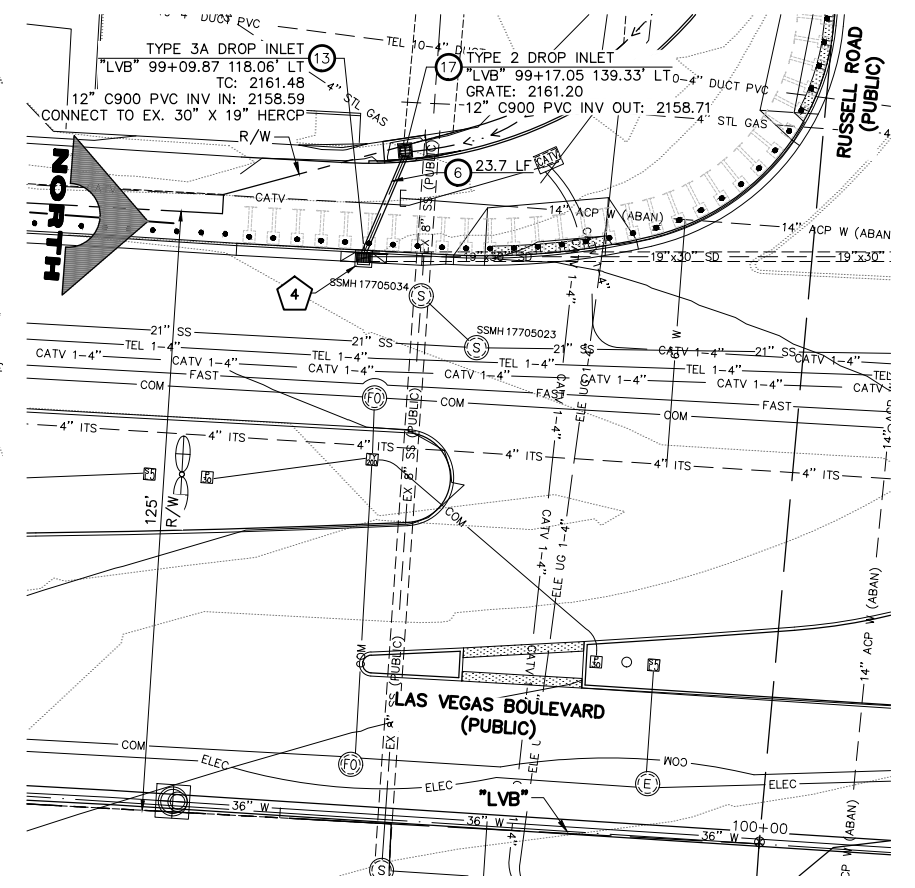
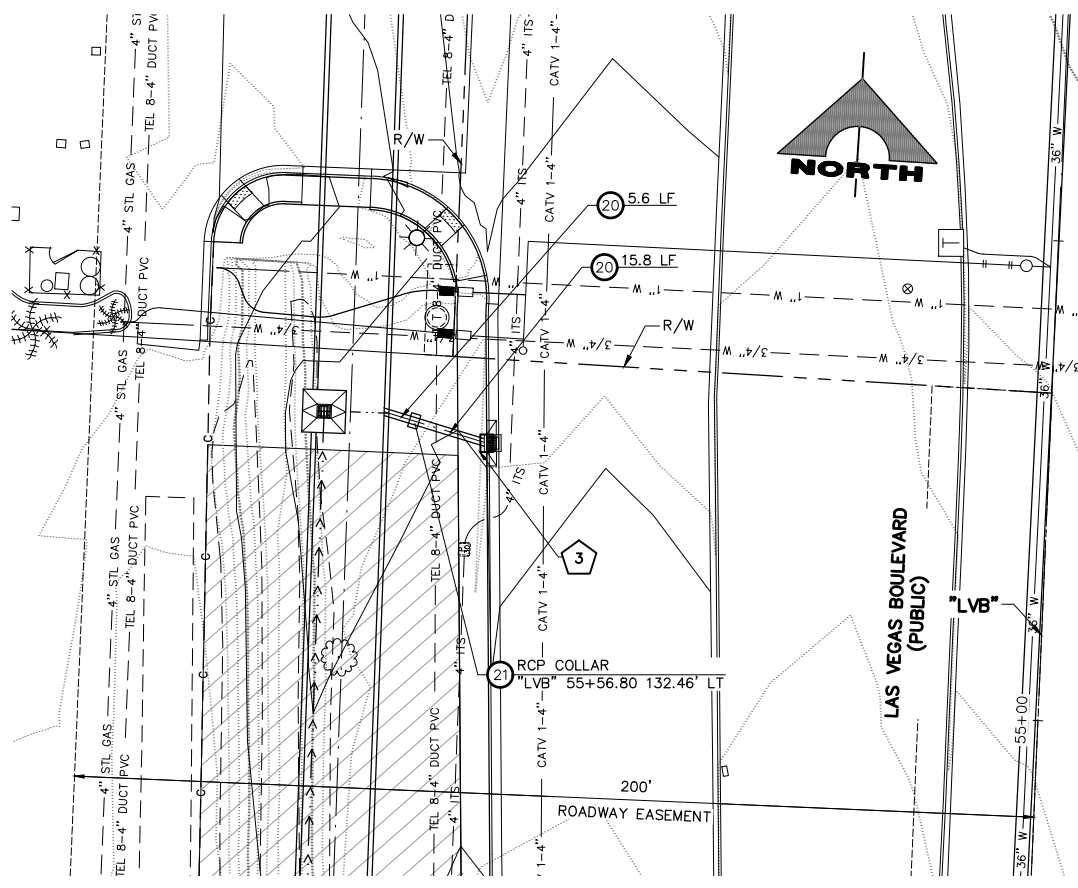
**GCV** ENGINEERS & SURVEYORS

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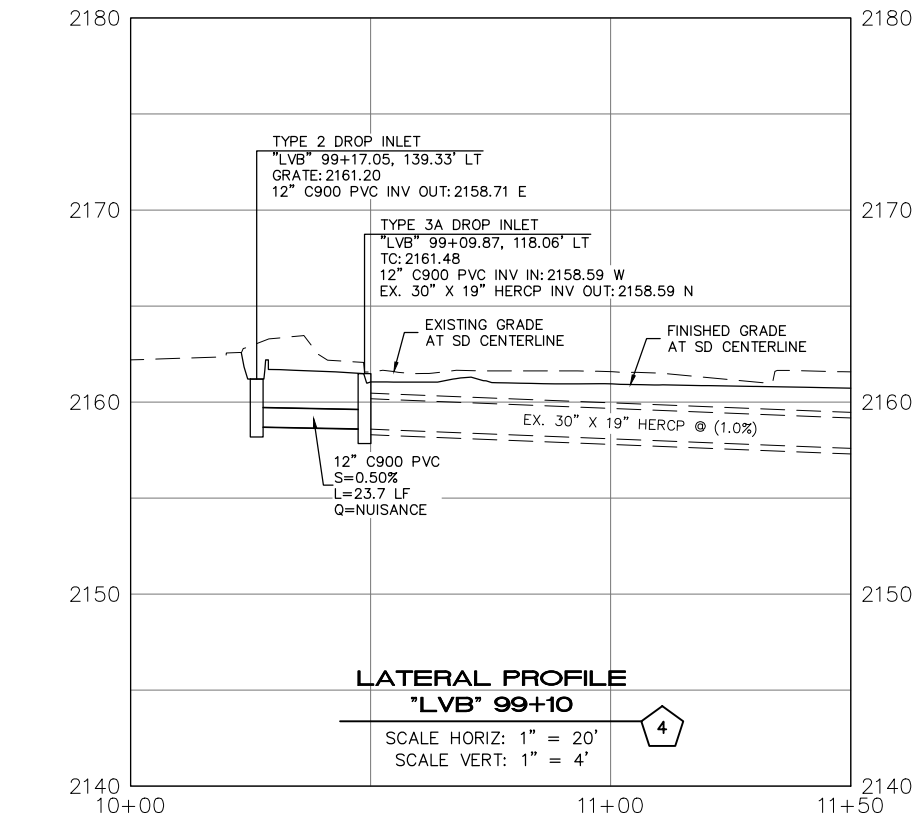
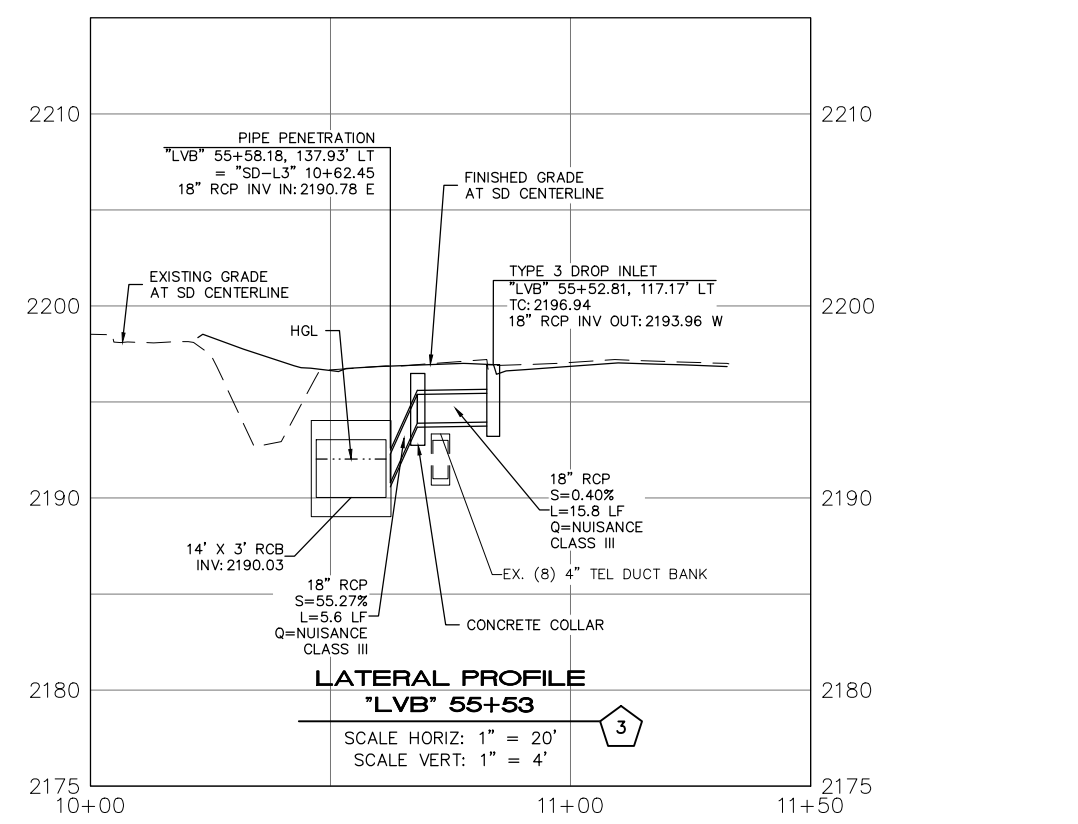
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)





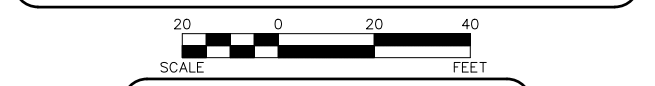
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**LEGEND**

X SEE STORM DRAIN PROFILES SD-3 THRU SD-5



**SOUTHWEST GAS VALVE NOTE**

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**CLARK COUNTY WATER RECLAMATION DISTRICT**

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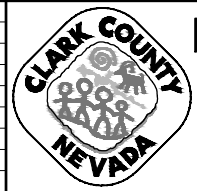
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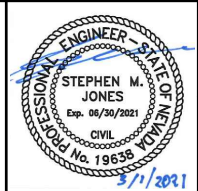
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OR 1-800-227-2600

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**STORM DRAIN PLANS AND PROFILES**  
**LATERALS 3 & 4**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: SMJ  
 APPROVED BY: \_\_\_\_\_

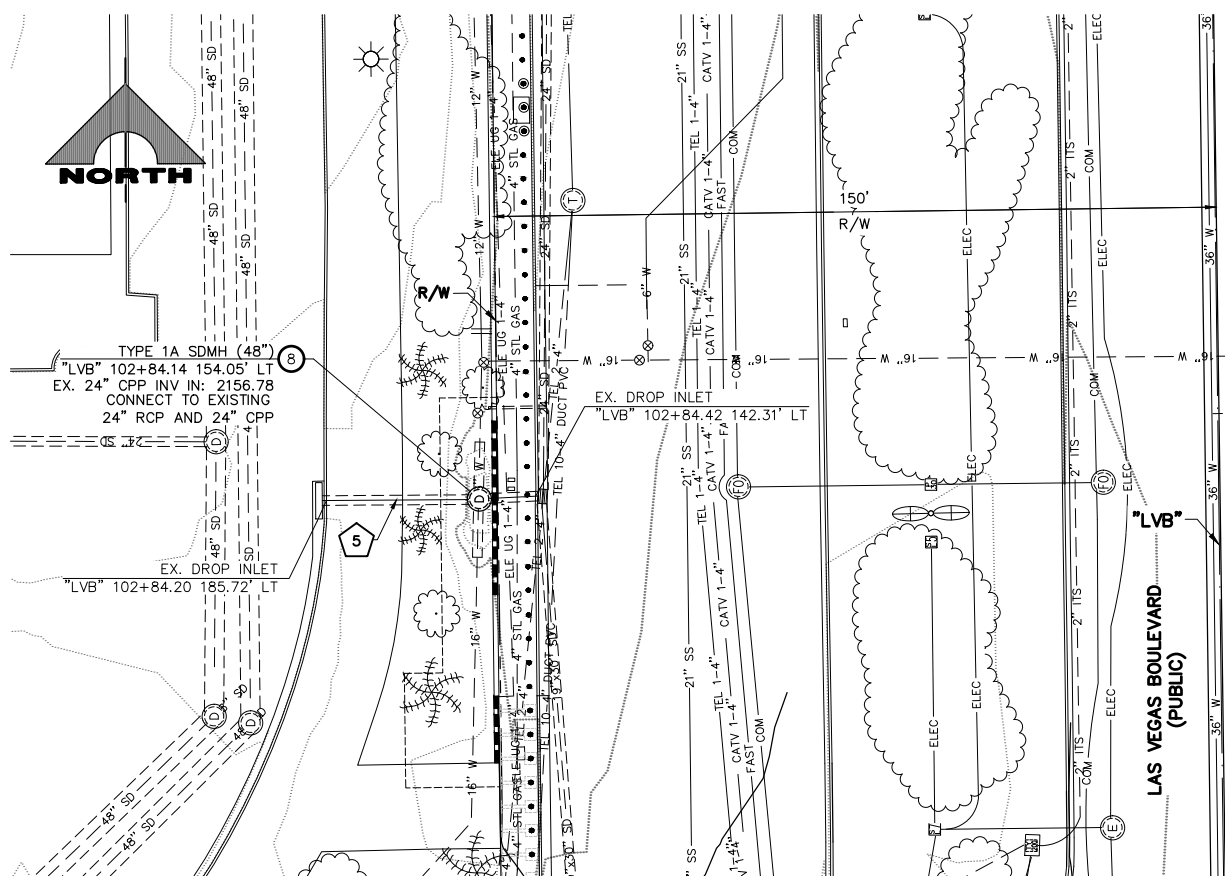
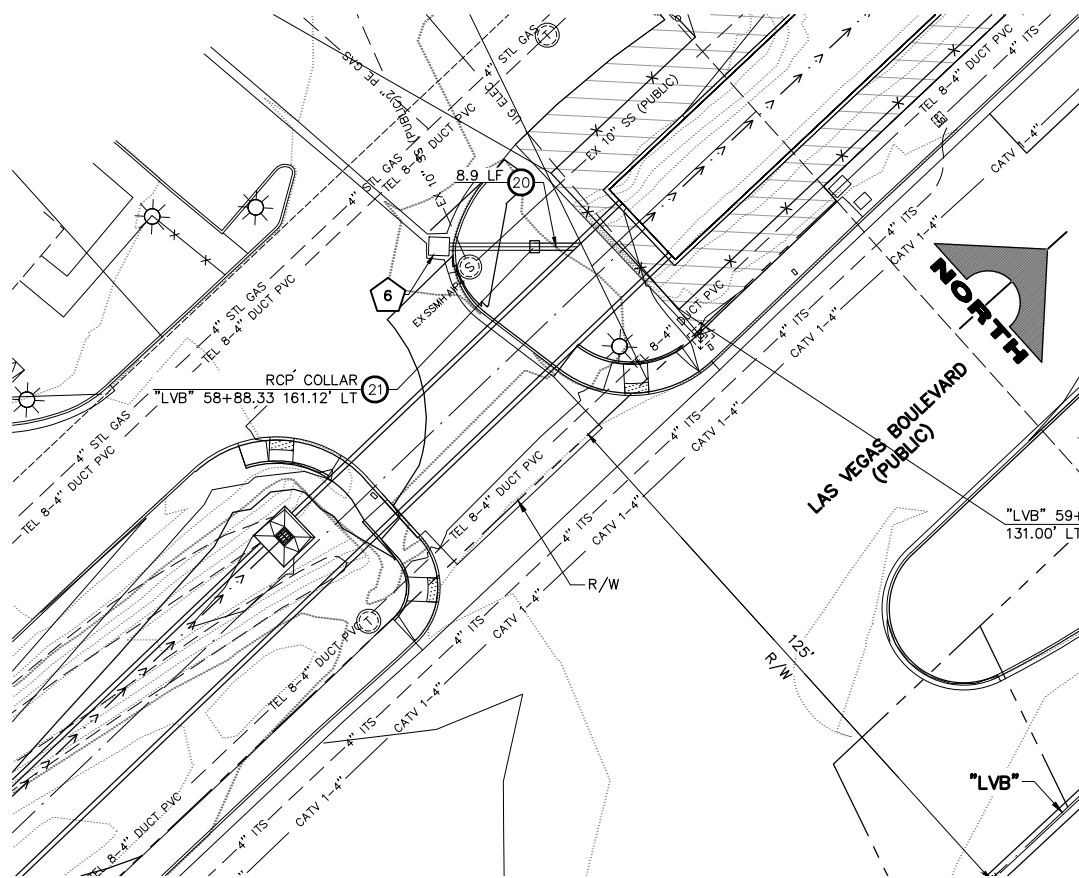
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 VERT: AS SHOWN  
 FIELD BOOK

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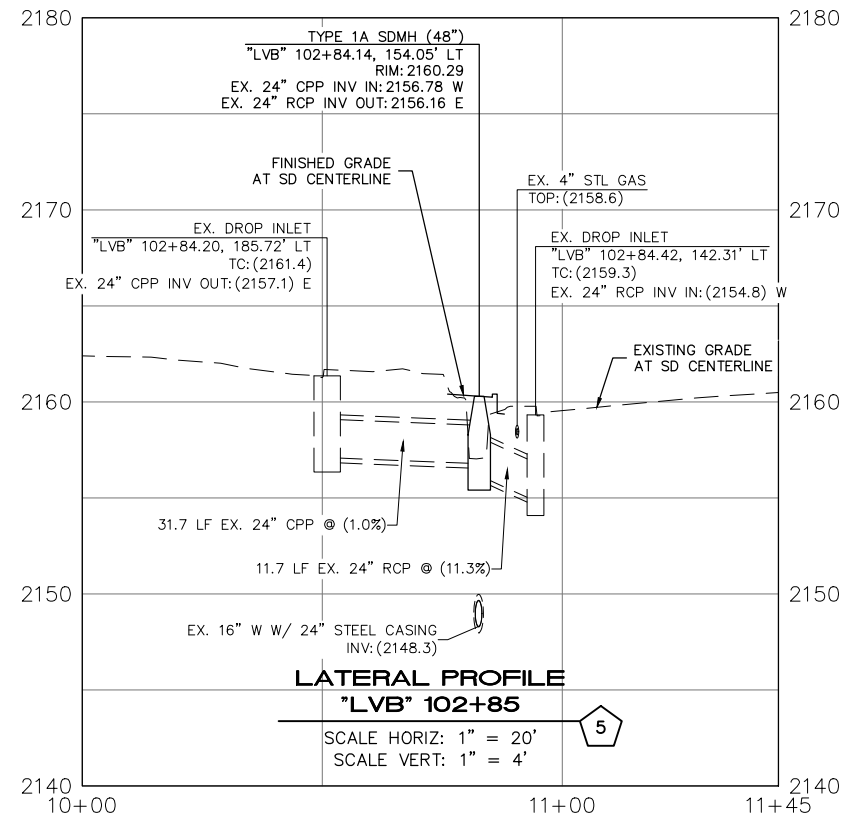
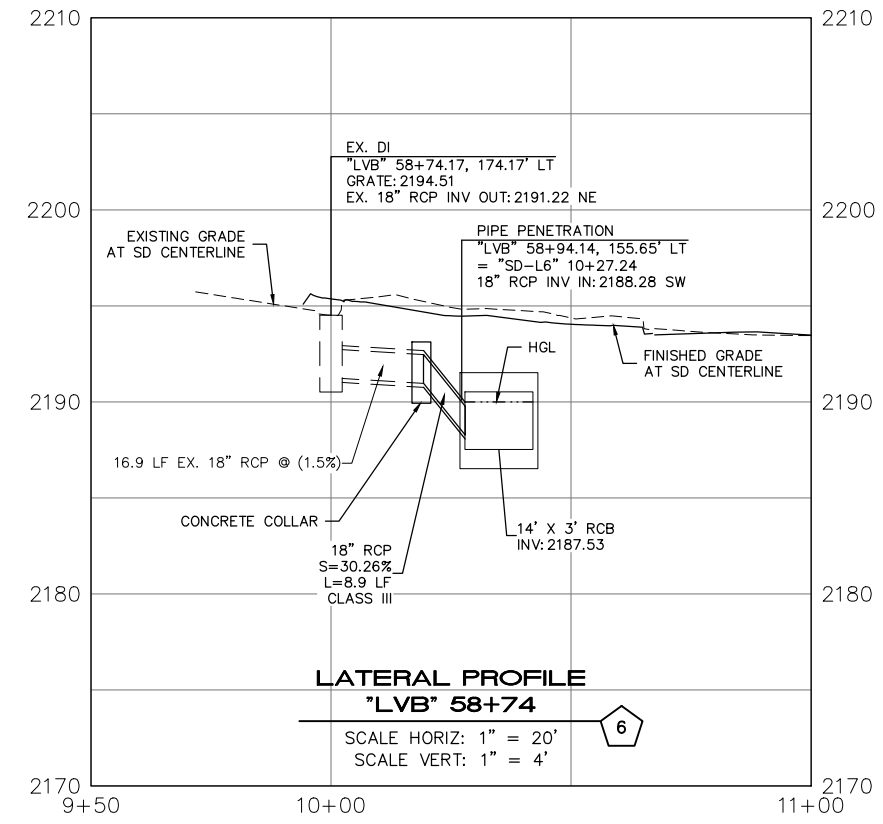
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 SHEET 95 OF 159  
 L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B) BID NO.: 605718-20



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  - INSTALL (2) 38"x24" HERCP STORM DRAIN
  - INSTALL 45"x29" HERCP STORM DRAIN
  - INSTALL 30-INCH STEEL CASING (1/2" THICK) STORM DRAIN (JACK AND BORE)
  - INSTALL 12-INCH C900 PVC STORM DRAIN
  - INSTALL 48-INCH STORM DRAIN ACCESS MANHOLE
  - INSTALL TYPE 1A MANHOLE (USDCCA STD. DWG. NO. 404)
  - INSTALL TYPE IIIA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 406)
  - CONSTRUCT TYPE "CM" DROP INLET (USDCCA STD. DWG. NO. 422)
  - CONSTRUCT TYPE "DM2" DROP INLET (USDCCA STD. DWG. NO. 412.1)
  - CONSTRUCT TYPE 3 DROP INLET (NDOT STD. DETAIL NOS. DS-35A & DS-35B AND USDCCA STD. DWG. NO. 421)
  - CONSTRUCT TYPE 3A DROP INLET (NDOT STD. DETAIL NOS. DS-36A & DS-36B AND USDCCA STD. DWG. NO. 421)
  - CONSTRUCT JUNCTION STRUCTURE (SEE DWG. S-5 TO S-7)
  - CONSTRUCT HEADWALL (SEE DWG. S-2 AND S-3)
  - INSTALL RIPRAP PAD (D50=12", T=24")
  - CONSTRUCT TYPE 2 DROP INLET WITH CONCRETE APRON (NDOT STD. DETAIL NOS. DS-32 & DS-42 AND USDCCA STD. DWG. NO. 421)
  - INSTALL ELASTOMERIC JOINTS AND CEMENT SLURRY (CLSM II) ENCASUREMENT 10' MIN. ON EACH SIDE OF THE CROSSING PER UDACS 2.22.02
  - INSTALL 14'x3' RCB STORM DRAIN (SEE DETAIL 2, DWG. S-7)
  - INSTALL 18-INCH RCP STORM DRAIN
  - CONSTRUCT RCP COLLAR (SEE DETAIL 3, DWG. S-6)
  - CONSTRUCT REINFORCED CONCRETE ENCASUREMENT (DCSWCS STD. DWG. SD-14)
  - CONSTRUCT LOW FLOW CHANNEL (SEE DETAIL 3, DWG. S-7)
  - PROTECT-IN-PLACE
- ### NOTES
- SEE R-DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, INLETS, AND HEADWALLS.
  - ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
  - STORM DRAIN MANHOLES AS SHOWN IN PROFILE SHALL BE CONSTRUCTED PER "UNIFORM CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION, UNLESS OTHERWISE NOTED.
  - ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.



- ### LEGEND
- X SEE STORM DRAIN PROFILES SD-3 THRU SD-5
- 
- SCALE: 0 20 40 FEET
- ### SOUTHWEST GAS VALVE NOTE
- FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.
- ### CLARK COUNTY WATER RECLAMATION DISTRICT
- BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
 CCRWD PIPES NUMBER: 20.793  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.
- ### APPROVED FOR CONSTRUCTION
- SIGNED BY MIKE DISHARI ON 1/19/21  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

TREXBY AND HEISLER SYSTEM OF TRANSPORTATION

Call before you Dig

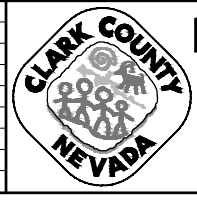
Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-227-2600

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REV. NO.	DATE	DESCRIPTION	APPROVED

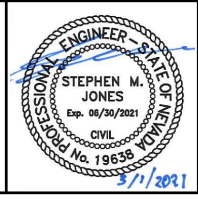


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### STORM DRAIN PLAN AND PROFILE

#### LATERAL 5 & 6

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: SMJ  
 APPROVED BY: \_\_\_\_\_

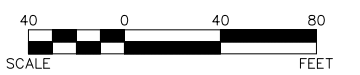
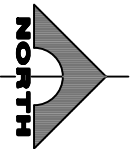
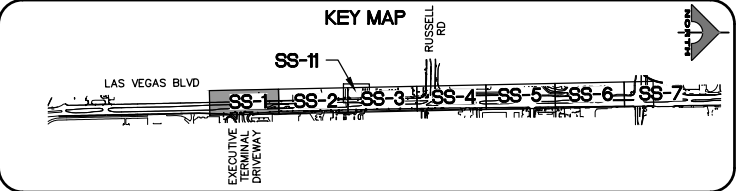
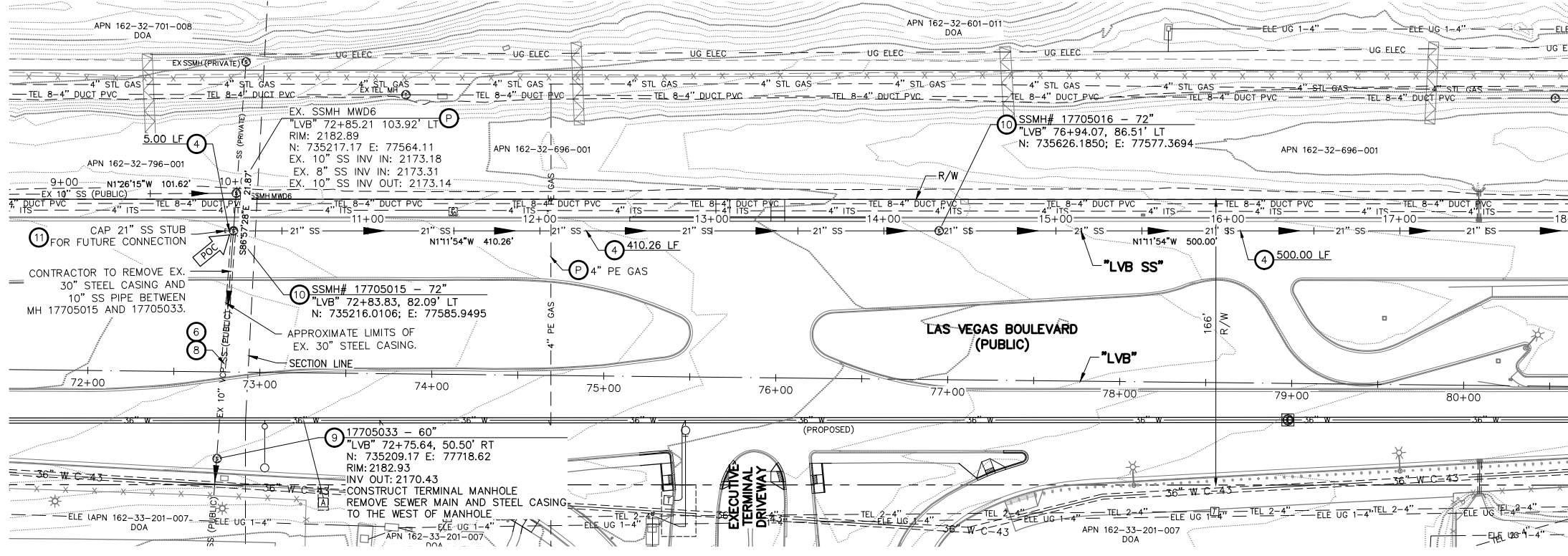
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: AS SHOWN FIELD BOOK

DRAWING NO. SD-5 SHT. 96 OF 159 L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





- SEWER NOTES**
- INSTALL 6-INCH PVC C-900 SANITARY SEWER PIPE PER DCSWCS SD-16.
  - INSTALL 8-INCH PVC SDR-35 SANITARY SEWER PIPE PER DETAIL 1, DWG. SS-10.
  - INSTALL 12-INCH PVC SDR-35 SANITARY SEWER PIPE PER DETAIL 1, DWG. SS-10.
  - INSTALL 21-INCH PVC PS-46 SANITARY SEWER PIPE PER DETAIL 1, DWG. SS-10.
  - ADJUST RIM TO GRADE PER DCSWCS 3.16.2.
  - REMOVE EXISTING SANITARY SEWER LINE PER DCSWCS 3.18.1 (METHOD B) AND SECTION 630.
  - RESHAPE BASE AND COAT ENTIRE MANHOLE PER DCSWCS 2.3.8, 3.16.8, AND SD-9 BASED ON NEW PIPE CONFIGURATION.
  - REMOVE EXISTING 30-INCH STEEL CASING PER DCSWCS 3.18.1 (METHOD B) AND SECTION 630.
  - INSTALL POLYMER 60" SANITARY SEWER MANHOLE PER DETAIL 3, DWG. SS-9.
  - INSTALL POLYMER 72" SANITARY SEWER MANHOLE PER DETAIL 3, DWG. SS-9.
  - INSTALL CAP PER DCSWCS 2.3.5 AND 3.14.8 FOR FUTURE CONNECTION. CONTRACTOR SHALL NOT ENCRoACH ON PRIVATE PROPERTY.
  - REMOVE EXISTING 24-INCH STEEL CASING PER DCSWCS 3.18.1 (METHOD B) AND SECTION 630.
  - INSTALL 36" STEEL PIPE CASING PER DETAIL 2, DWG. SS-10.
  - INSTALL POLYMER 96" SANITARY SEWER MANHOLE PER DETAIL 3, DWG. SS-9.
  - PROTECT IN PLACE.

**STRUCTURE NOTE:**  
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**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
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**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

FREEWAY AND AIRPORT SYSTEM OF TRANSPORTATION

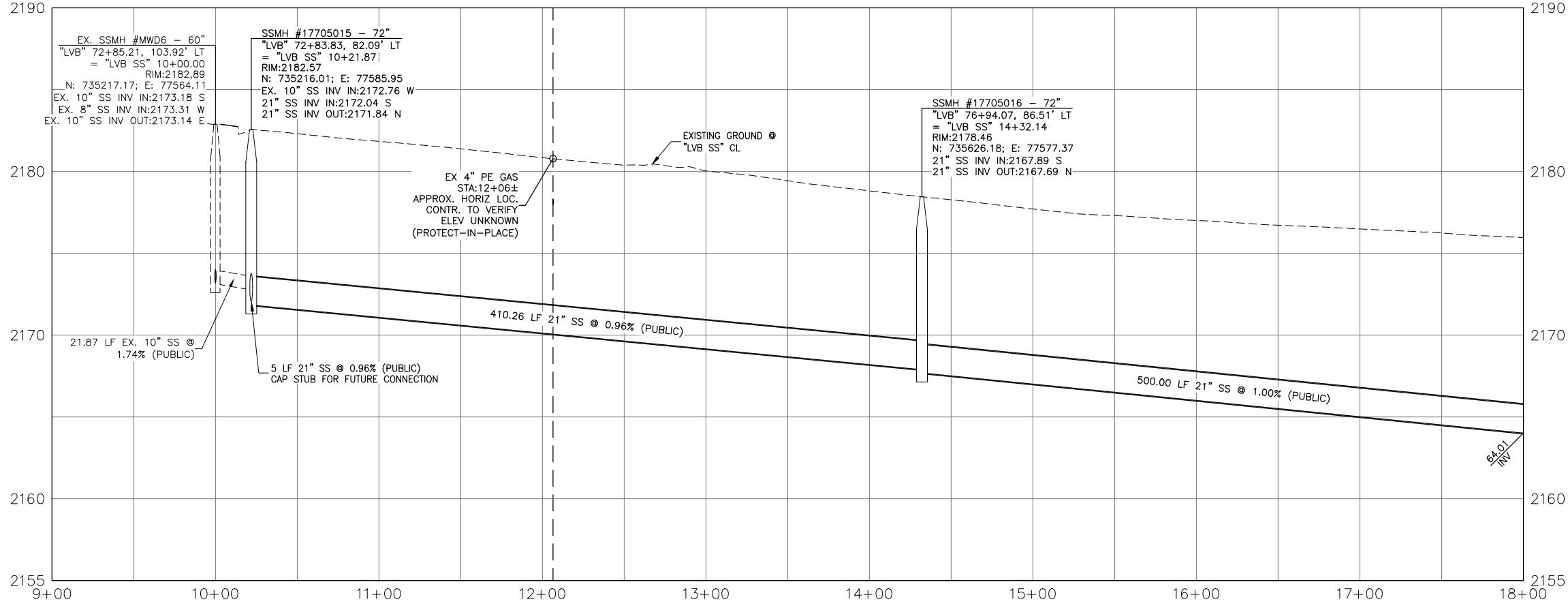
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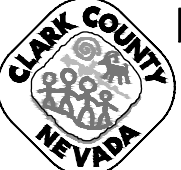
OR

1-800-227-2600



**NOTE:**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER PLAN AND PROFILE**  
**"LVB SS" 9+00.00 TO "LVB SS" 18+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: MVD  
 DESIGNED BY: WLF CHECKED BY: JPC  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: 1" = 40'  
 VERT: 1" = 4'  
 FIELD BOOK  
 DRAWING NO.  
**SS-1**  
 SH. 97 OF 159  
 L-2272

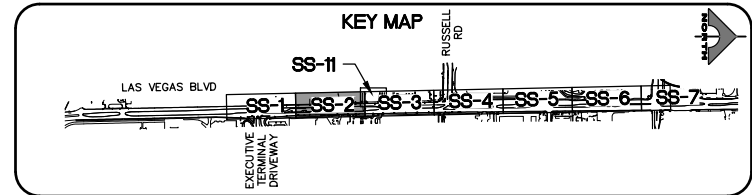
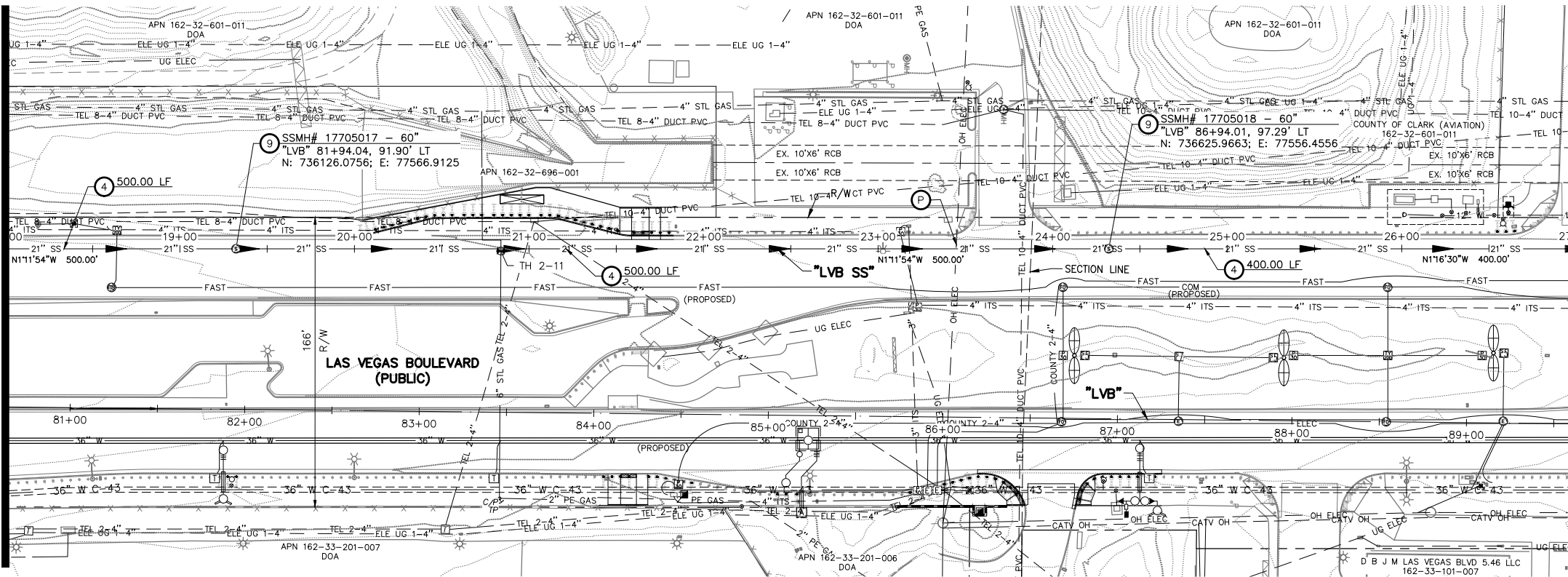
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B) BID NO.: 605718-20



"LVB SS" 18+00.00 MATCHLINE SEE DWG. SS-1

"LVB SS" 27+00.00 MATCHLINE SEE DWG. SS-3



- SEWER NOTES**
- INSTALL 6-INCH PVC C-900 SANITARY SEWER PIPE PER DCSWCS SD-16.
  - INSTALL 8-INCH PVC SDR-35 SANITARY SEWER PIPE PER DETAIL 1, DWG. SS-10.
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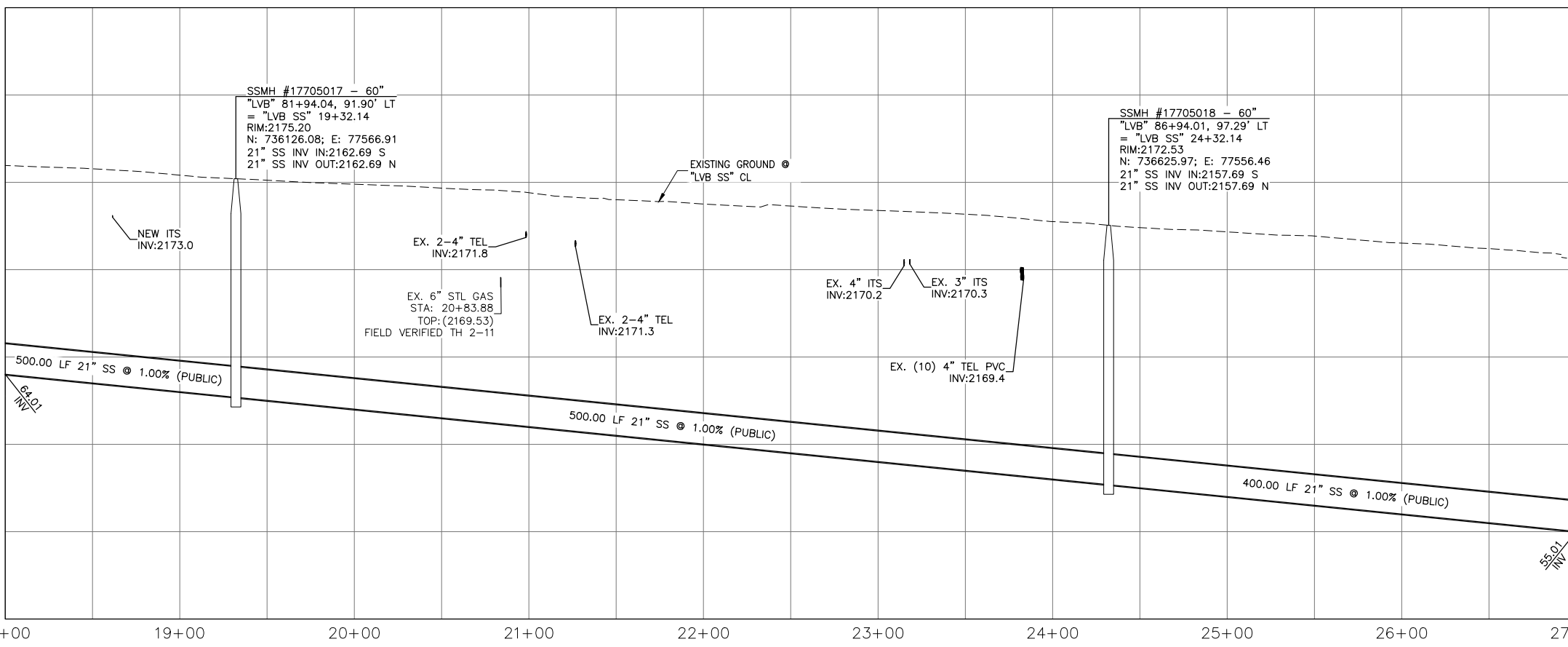
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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Avoid hitting overhead utility lines. It's costly. Call 811 or 1-800-227-2600

**FAST**  
Call before you UnderGround. 1-702-432-5300  
FREEMAN AND ARTISAL SYSTEM OF TRANSPORTATION

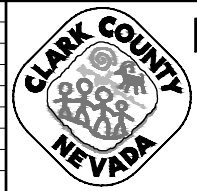
**1-702-227-2929**



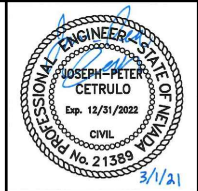
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
SANITARY SEWER PLAN AND PROFILE  
"LVB SS" 18+00.00 TO "LVB SS" 27+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



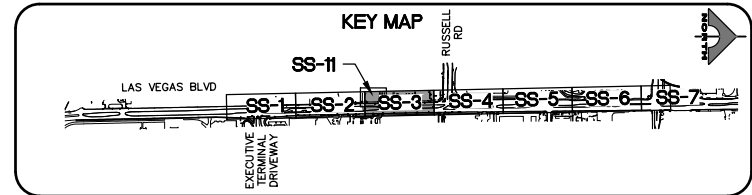
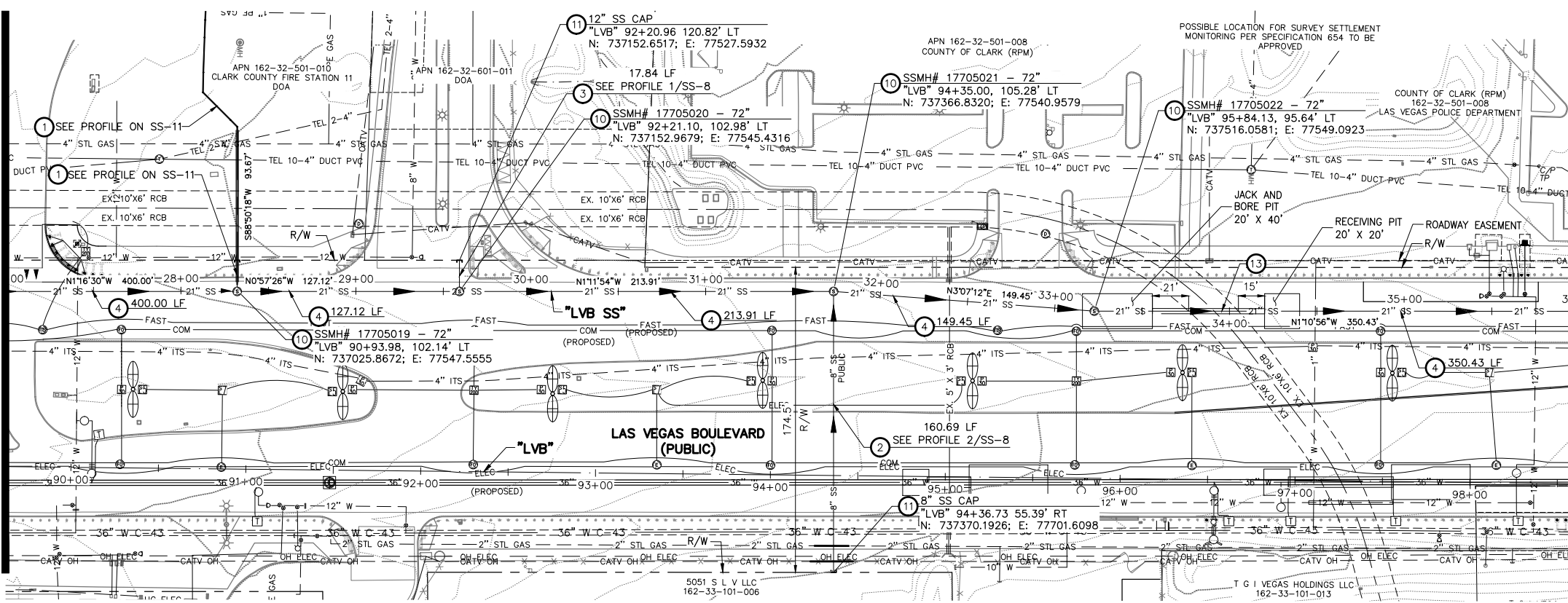
PROJECT No: 500-897-LV DRAWN BY: MVD  
DESIGNED BY: WLF CHECKED BY: JPC  
APPROVED BY: \_\_\_\_\_  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 4'  
FIELD BOOK  
DRAWING NO. SS-2  
SHT. 98 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

"LVB SS" 27+00.00 MATCHLINE SEE DWG. SS-2

"LVB SS" 36+00.00 MATCHLINE SEE DWG. SS-4



- SEWER NOTES**
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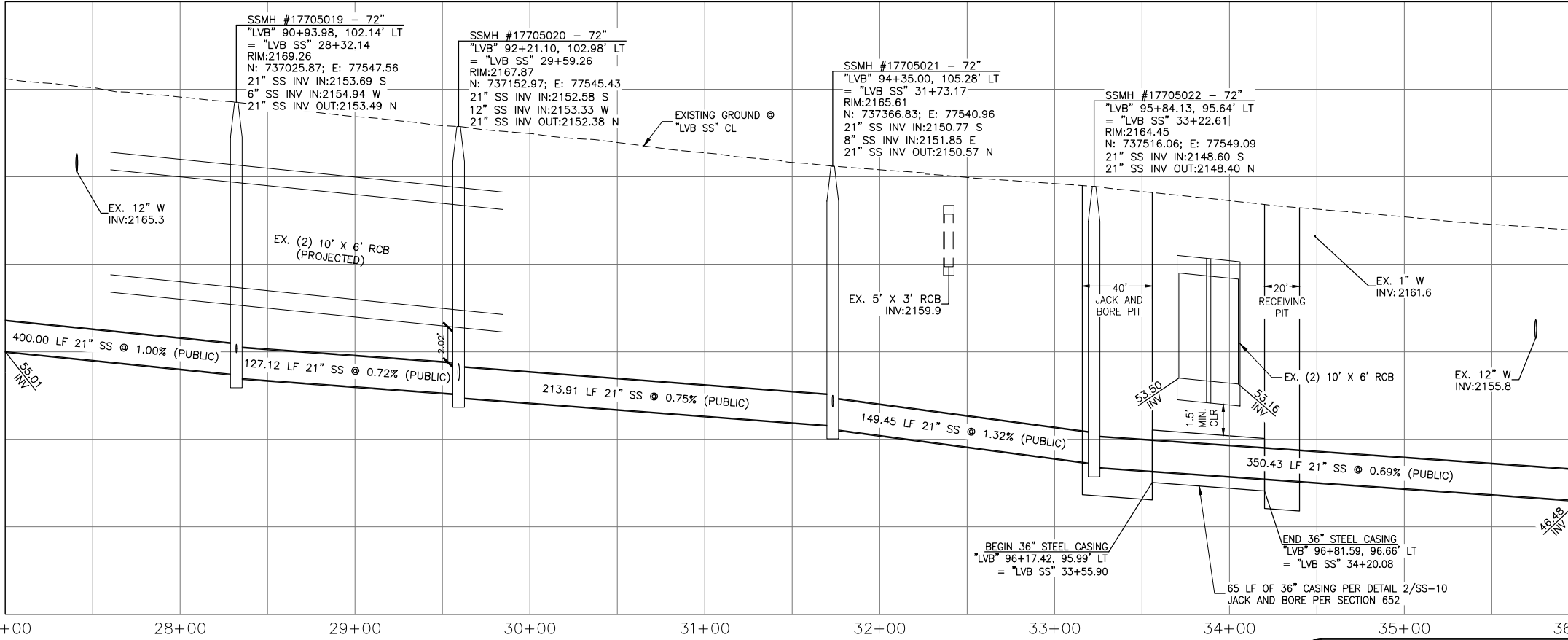
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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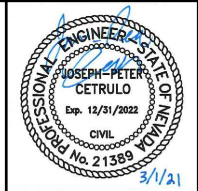


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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER PLAN AND PROFILE**  
**"LVB SS" 27+00.00 TO "LVB SS" 36+00.00**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: MVD  
DESIGNED BY: WLF CHECKED BY: JPC  
APPROVED BY: \_\_\_\_\_  
SCALE: HORIZ: 1" = 40'  
VERT: 1" = 4'  
FIELD BOOK: \_\_\_\_\_  
DRAWING NO. SS-3  
SHT. 99 OF 159  
L-2272



1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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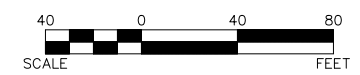
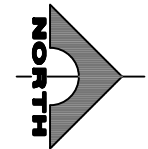
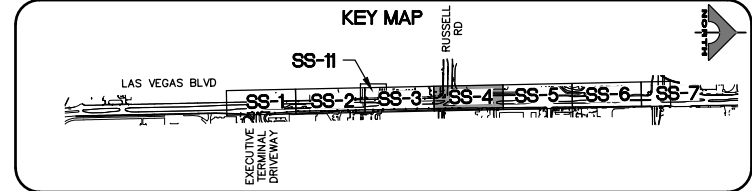
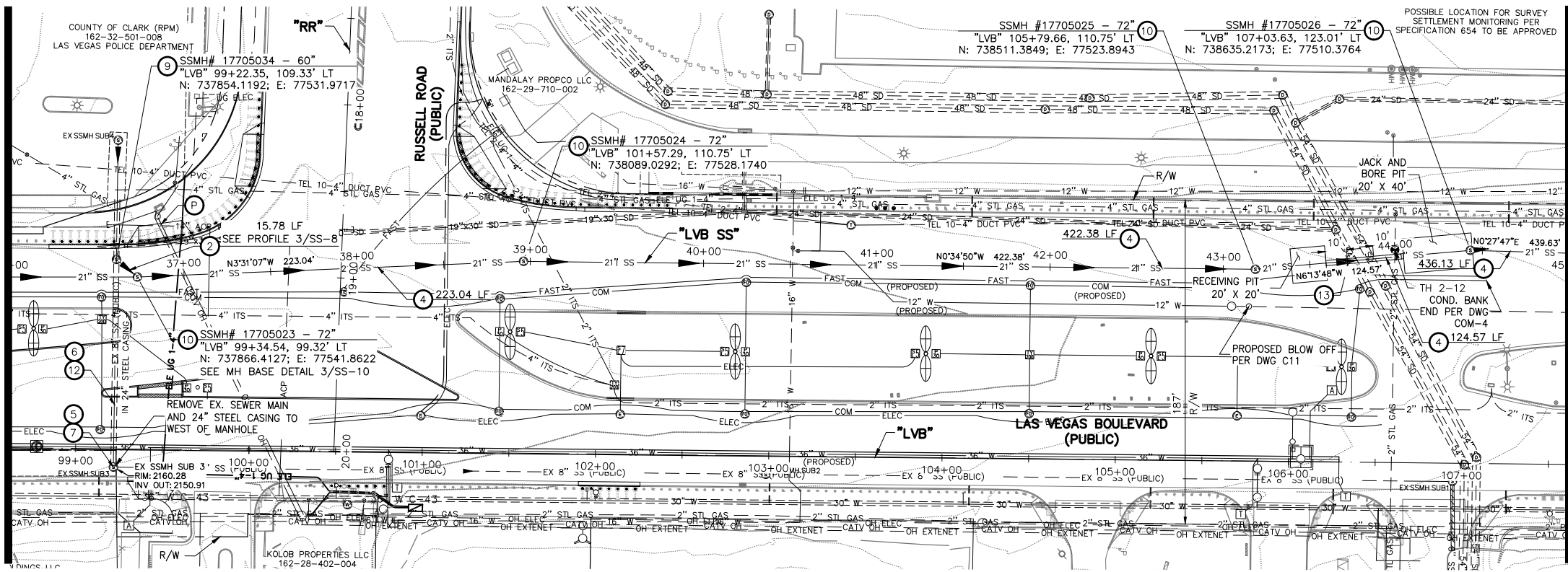
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)



"LVB SS" 36+00.00 MATCHLINE SEE DWG. SS-3

"LVB SS" 45+00.00 MATCHLINE SEE DWG. SS-5



**SEWER NOTES**

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- REMOVE EXISTING 24-INCH STEEL CASING PER DCSWCS 3.18.1 (METHOD B) AND SECTION 630.
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- INSTALL POLYMER 96" SANITARY SEWER MANHOLE PER DETAIL 3, DWG. SS-9.
- PROTECT IN PLACE.

**STRUCTURE NOTE:**

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**SOUTHWEST GAS VALVE NOTE**

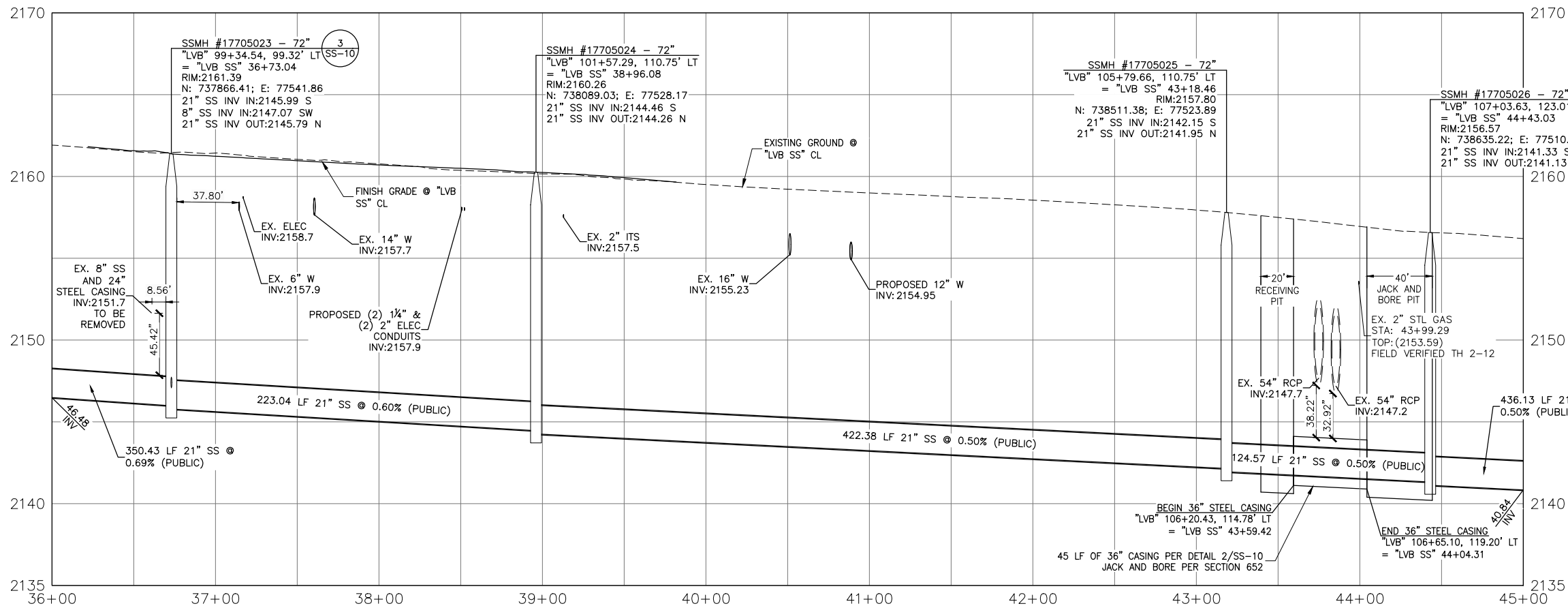
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

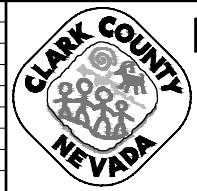
**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
 CCWRD PIPES NUMBER: 20.793  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

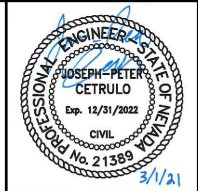


**NOTE:**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER PLAN AND PROFILE**  
**"LVB SS" 36+00.00 TO "LVB SS" 45+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



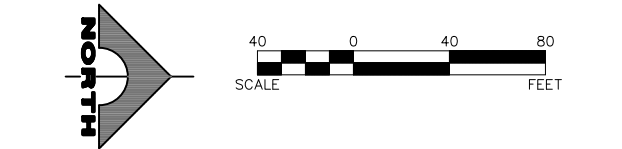
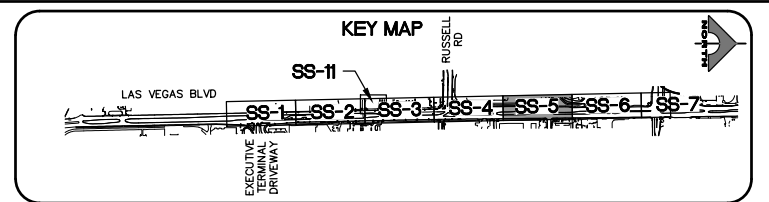
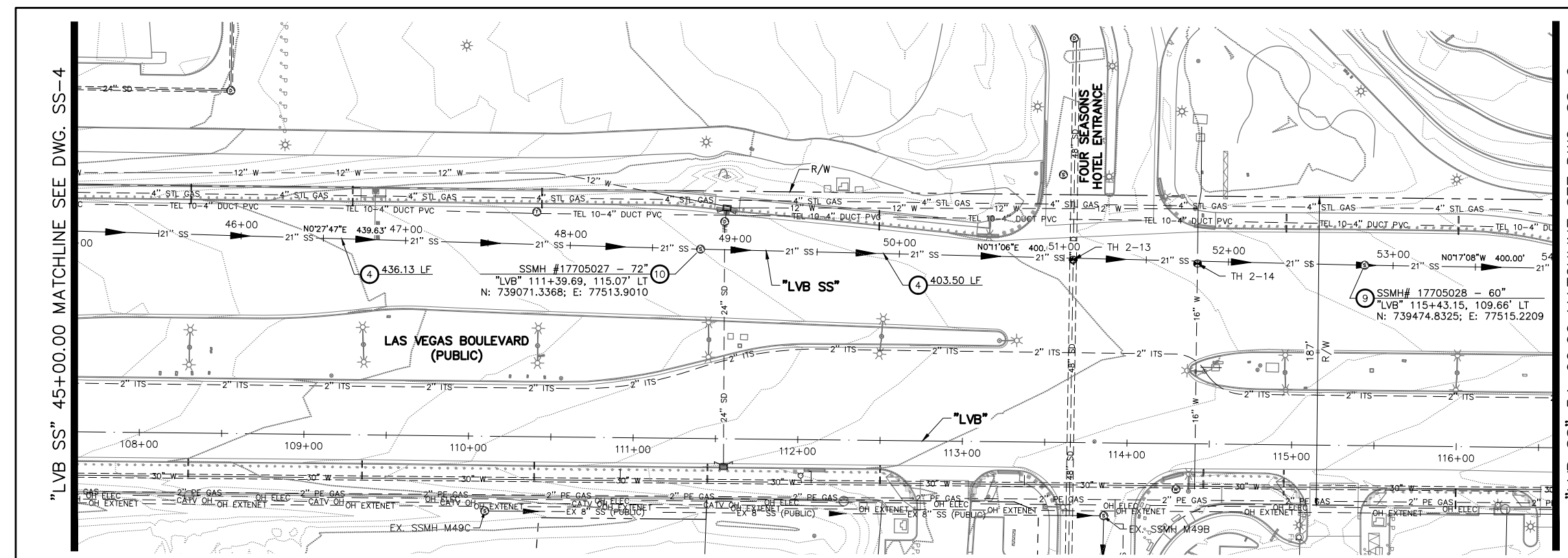
PROJECT No: 500-897-LV DRAWN BY: MVD  
 DESIGNED BY: WLF CHECKED BY: JPC  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	HORIZ: 1" = 40'	VERT: 1" = 4'	FIELD BOOK
DRAWING NO. SS-4		SHT. 100 OF 159	
L-2272			

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





- SEWER NOTES**
- INSTALL 6-INCH PVC C-900 SANITARY SEWER PIPE PER DCSWCS SD-16.
  - INSTALL 8-INCH PVC SDR-35 SANITARY SEWER PIPE PER DETAIL 1, DWG. SS-10.
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**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

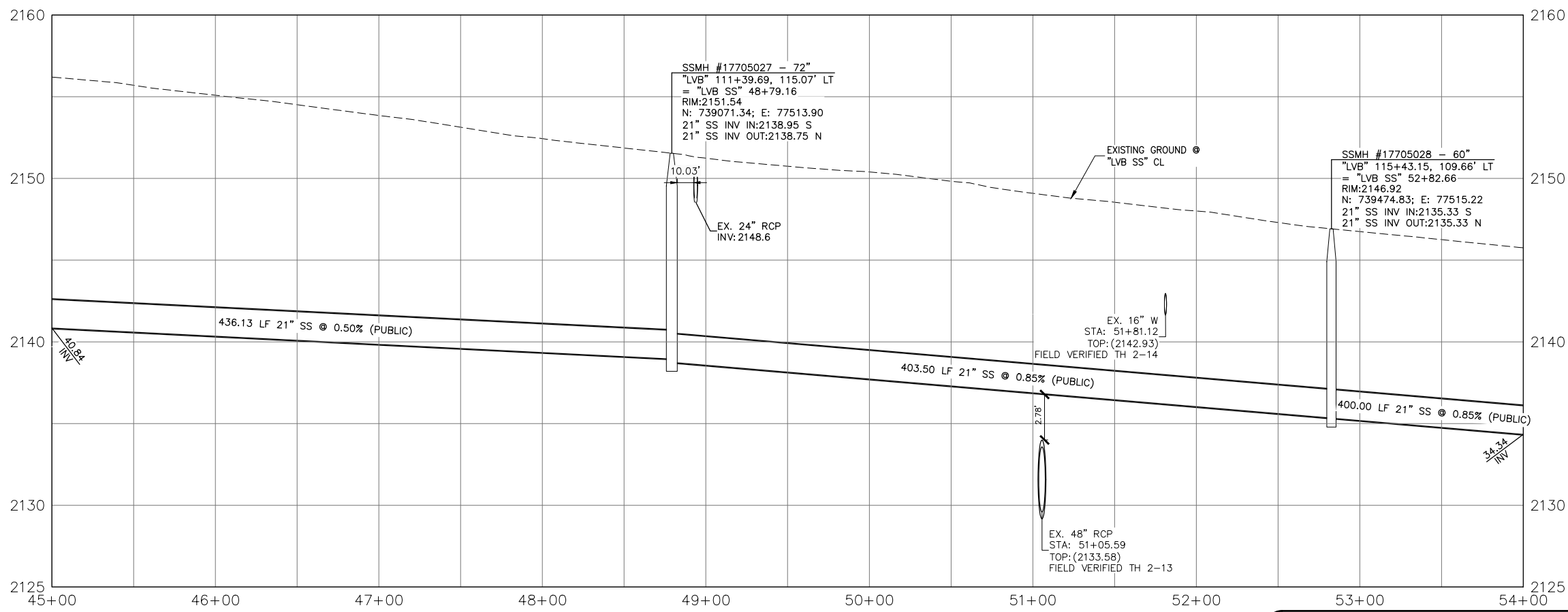
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
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AVOID HITTING OVERHEAD POWER LINES IT'S COSTLY & DANGEROUS!  
**CALL BEFORE YOU DIG OVERHEAD**

1-702-227-2929

**FAST**  
Call before you UnderGround.  
1-702-432-5300  
FREEMAN AND ARTISAN SYSTEM OF TRANSPORTATION

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**Call 811**  
OR  
1-800-227-2600



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REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER PLAN AND PROFILE**  
"LVB SS" 45+00.00 TO "LVB SS" 54+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

JOSEPH-PETER CETRULO  
Exp. 12/31/2022  
CIVIL  
No. 21389  
3/1/21

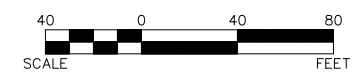
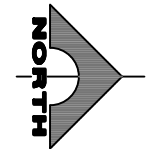
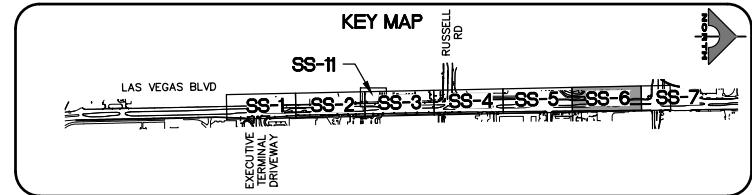
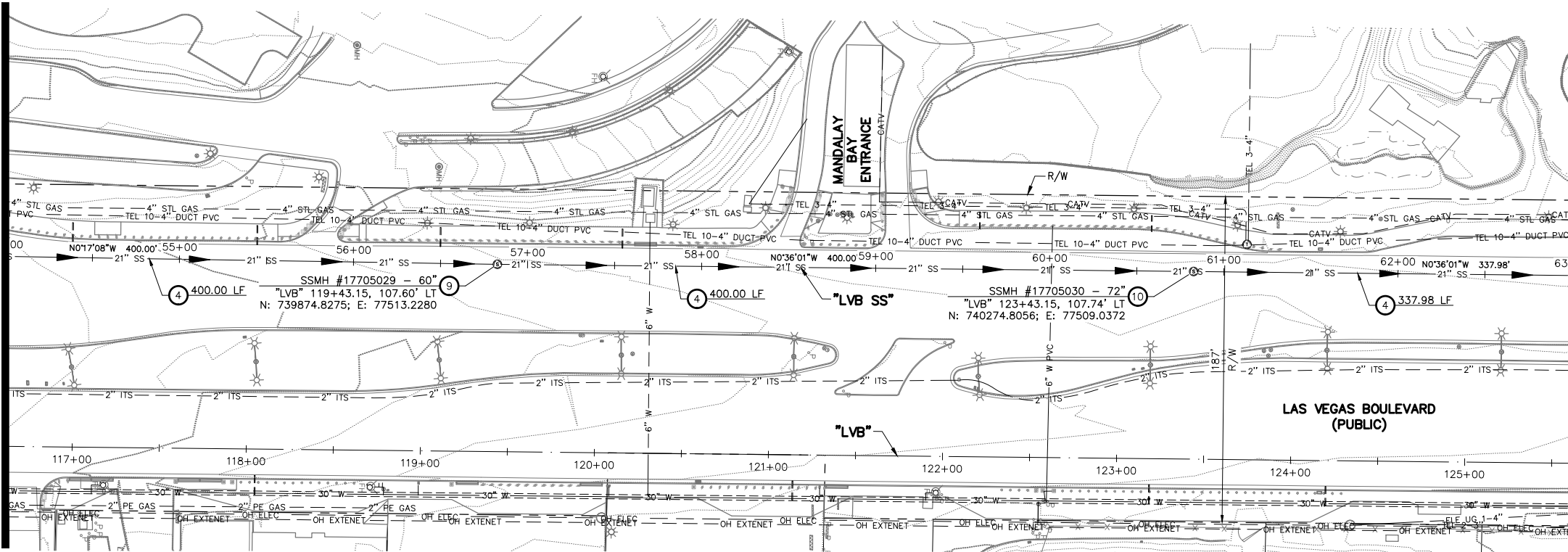
PROJECT No: 500-897-LV DRAWN BY: MVD  
DESIGNED BY: WLF CHECKED BY: JPC  
APPROVED BY: \_\_\_\_\_

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 40'	SS-5
VERT: 1" = 4'	SHT. 101 OF 159
FIELD BOOK	L-2272

"LVB SS" 54+00.00 MATCHLINE SEE DWG. SS-5

"LVB SS" 63+00.00 MATCHLINE SEE DWG. SS-7



**SEWER NOTES**

- 1) INSTALL 6-INCH PVC C-900 SANITARY SEWER PIPE PER DCSWCS SD-16.
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FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**

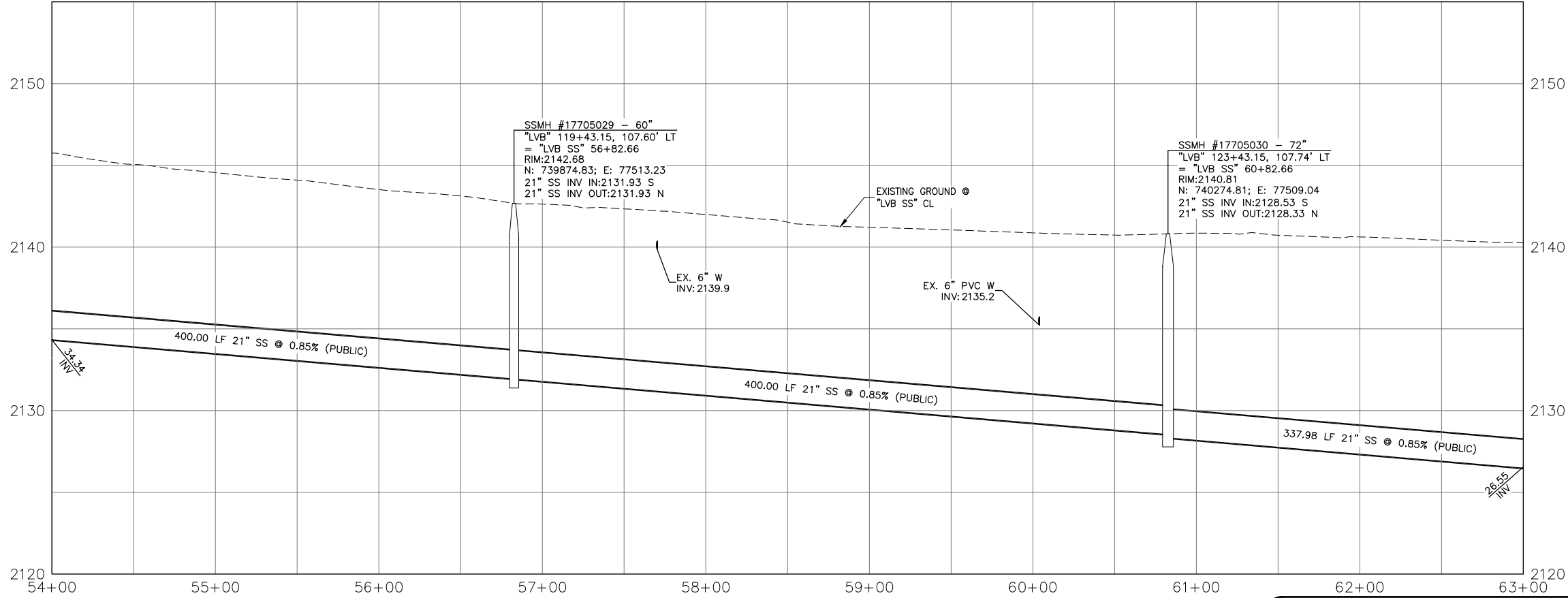
SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

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 CCWRD PIPES NUMBER: 20.793  
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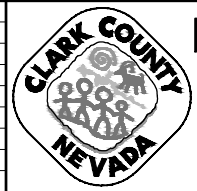


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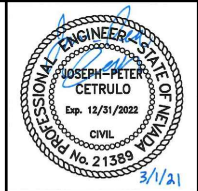


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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER PLAN AND PROFILE**  
**"LVB SS" 54+00.00 TO "LVB SS" 63+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



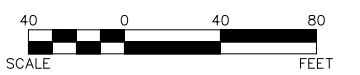
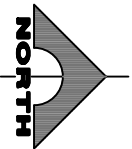
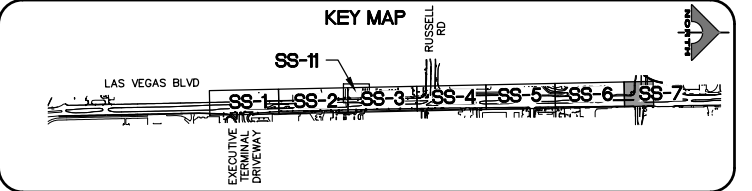
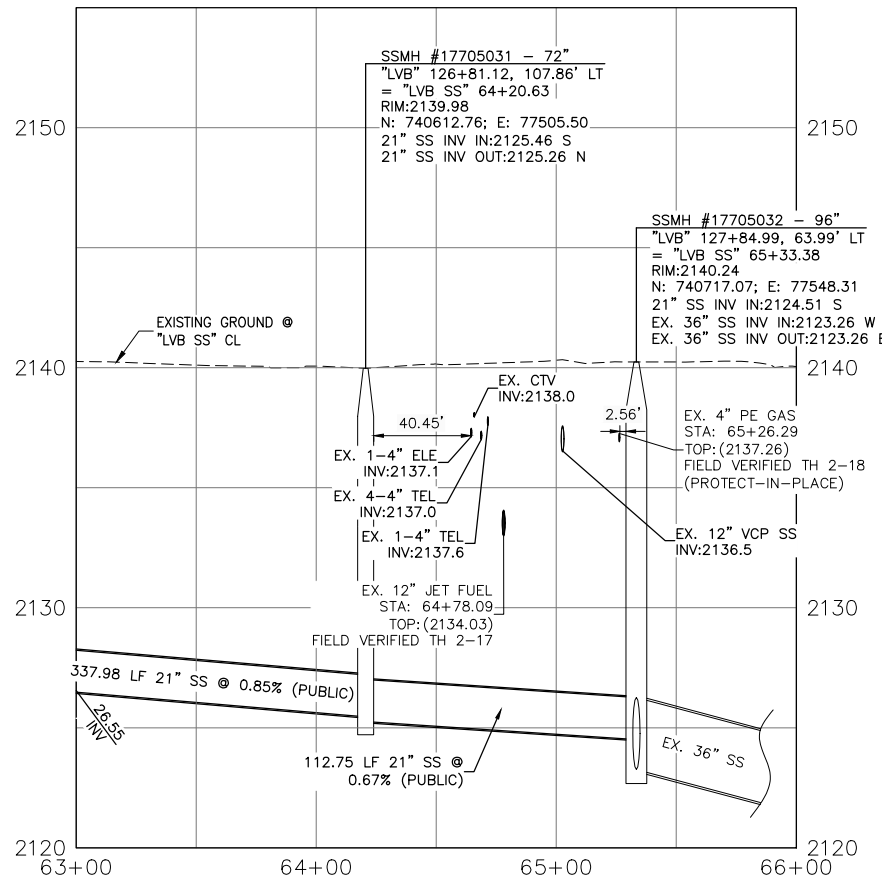
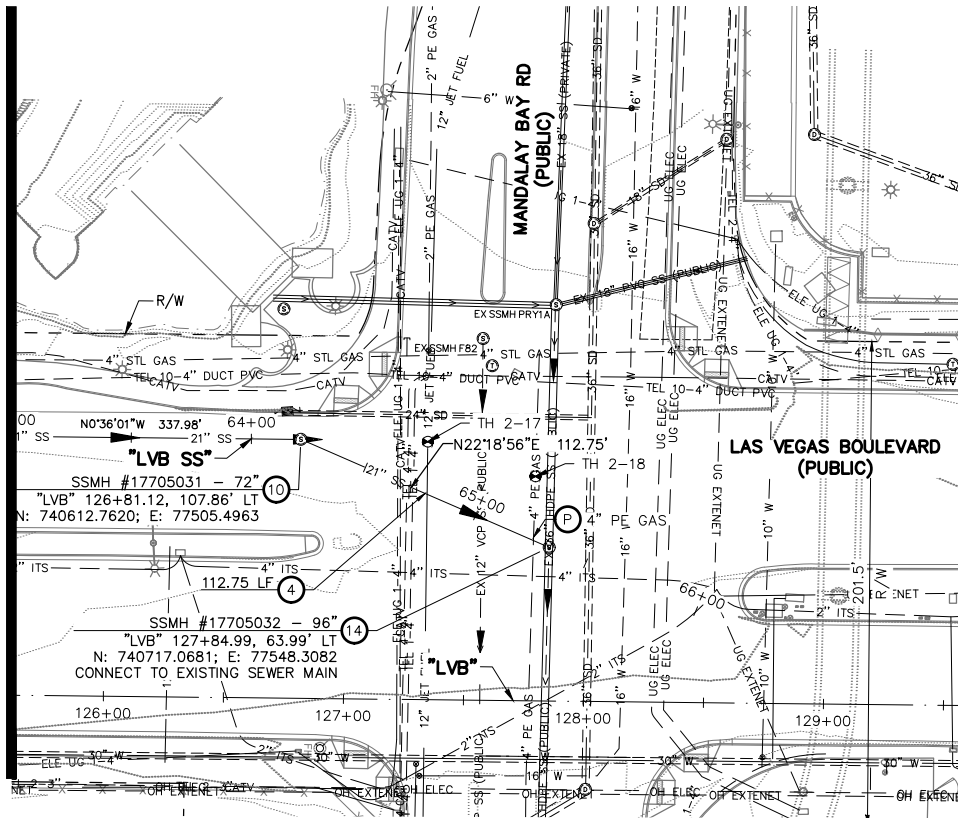
PROJECT No: 500-897-LV DRAWN BY: MVD  
 DESIGNED BY: WLF CHECKED BY: JPC  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: 1" = 40'  
 VERT: 1" = 4'  
 FIELD BOOK  
 DRAWING NO.  
**SS-6**  
 SHT. 102 OF 159  
 L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



"LVB SS" 63+00.00 MATCHLINE SEE DWG. SS-6



**SEWER NOTES**

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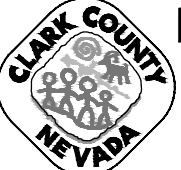
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER PLAN AND PROFILE**  
**"LVB SS" 63+00.00 TO "LVB SS" 66+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



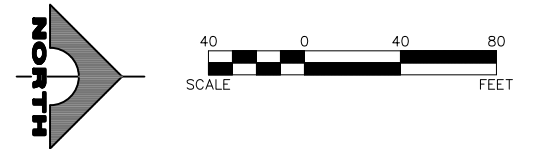
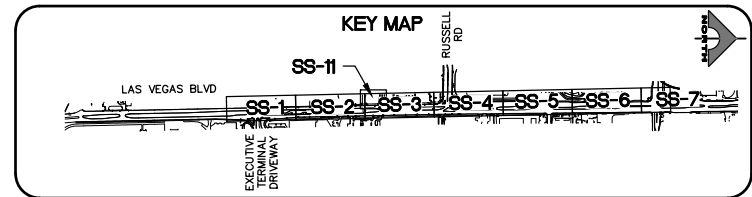
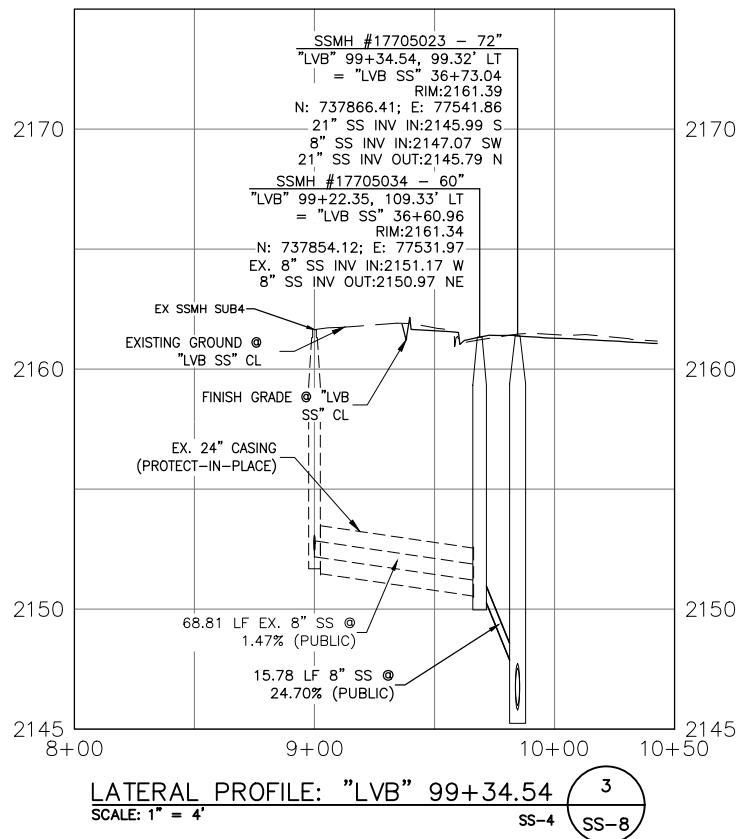
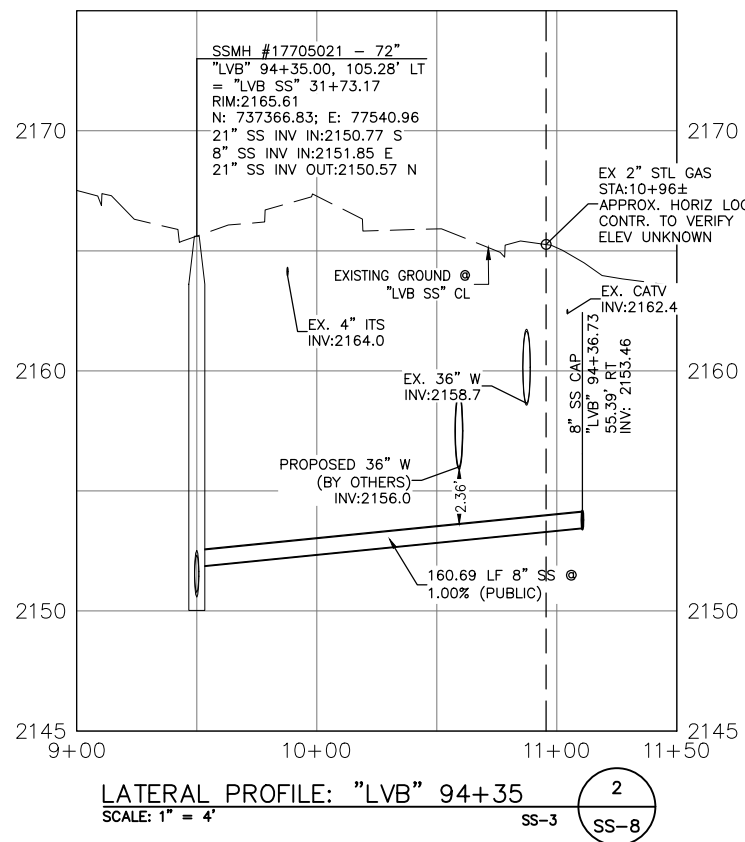
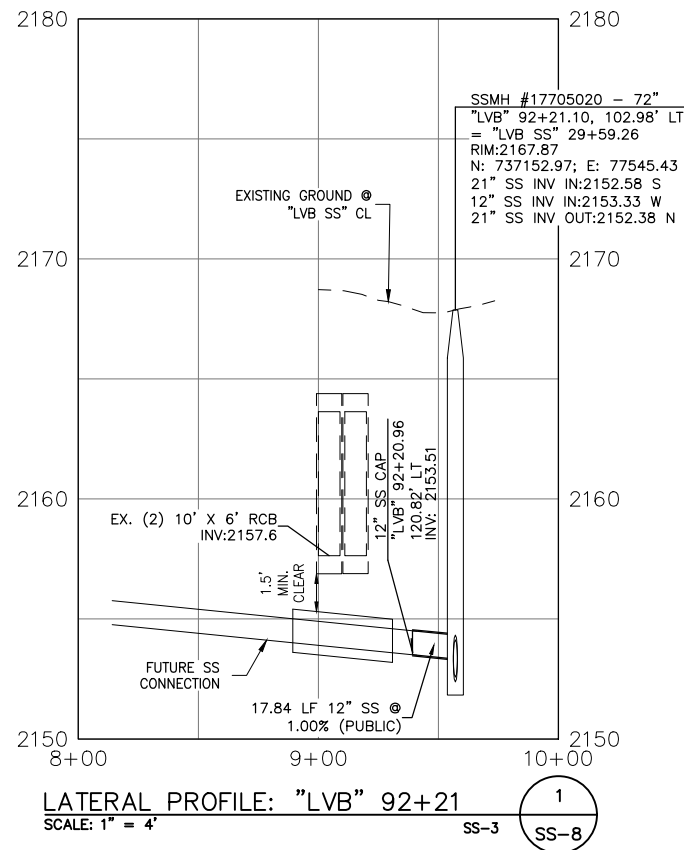
PROJECT No: 500-897-LV DRAWN BY: MVD  
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SCALE	DRAWING NO.
HORIZ: 1" = 40'	SS-7
VERT: 1" = 4'	SHT. 103 OF 159
FIELD BOOK	L-2272

F:\Projects\500\500-897-LV\DWG\Production\Phase B\1A\_LVB\_SS Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

FREEWAY AND AIRTRAIL SYSTEM OF TRANSPORTATION

**Call before you Dig**

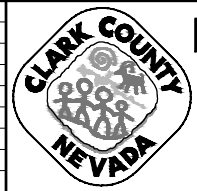
Avoid cutting underground utility lines. It's costly.

**Call 811**

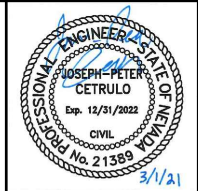
OR 1-800-227-2600

**NOTE:**  
ALL PIPE LENGTHS ARE REPORTED AS CENTER TO CENTER OF STRUCTURE. CONTRACTOR TO BE PAID PER PIPE LENGTH INSTALLED.

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER LATERAL PROFILES**  
**"SS1" "SS2" & "SS3"**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



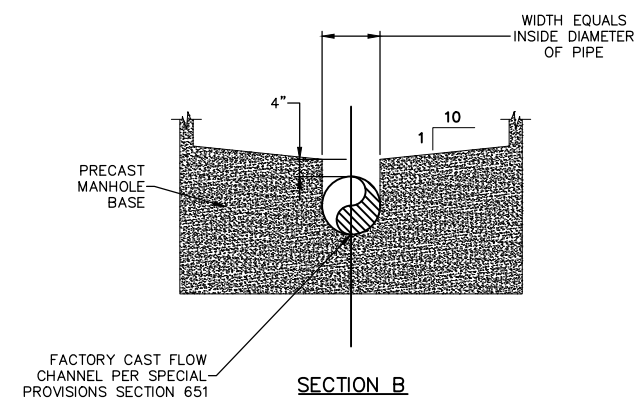
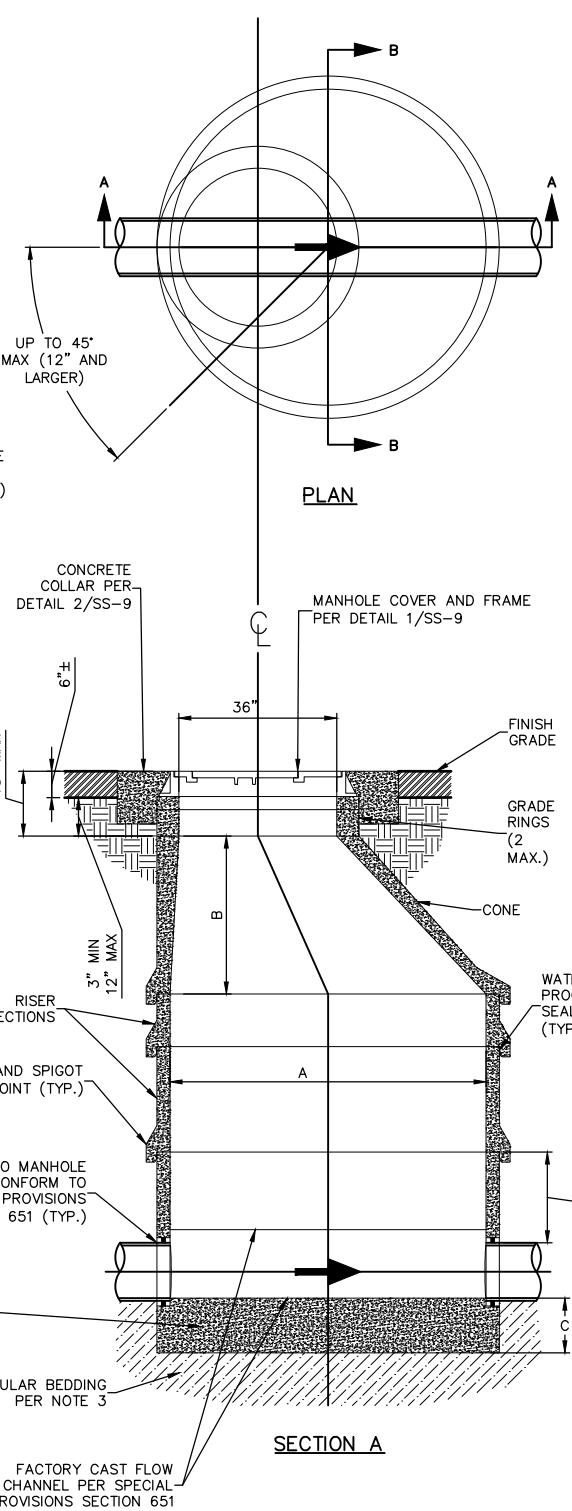
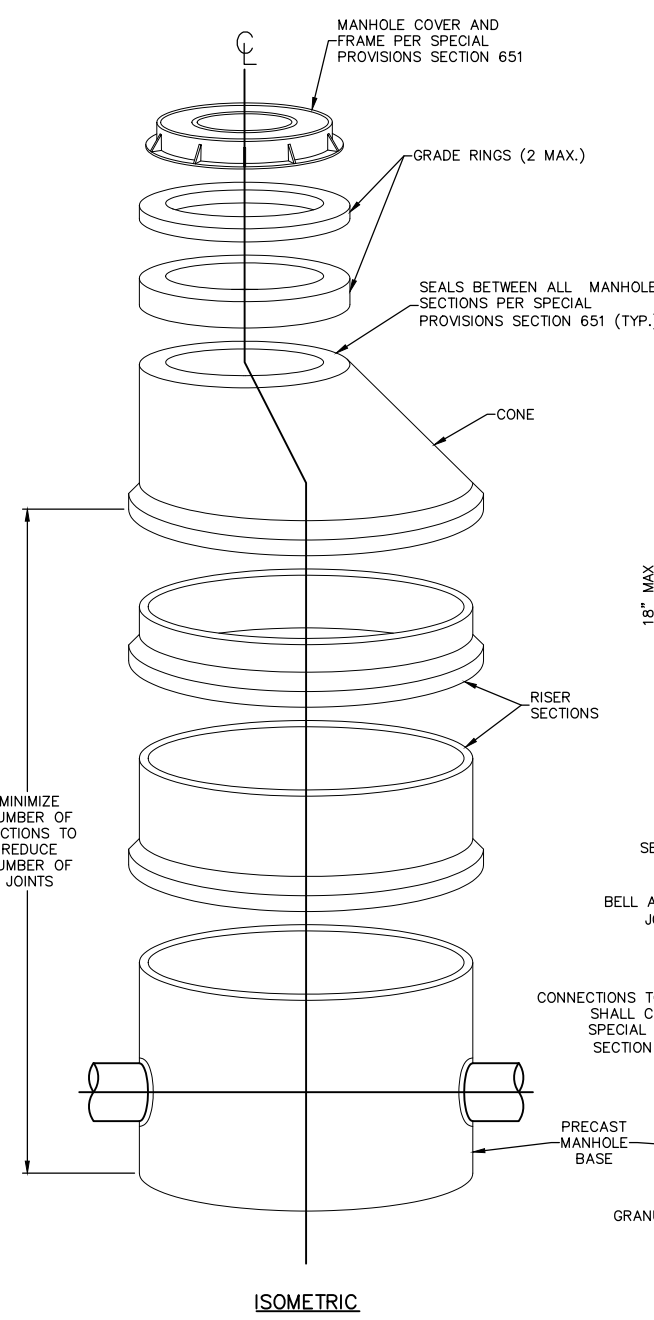
PROJECT No: 500-897-LV DRAWN BY: MVD  
DESIGNED BY: WLF CHECKED BY: JPC  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 4'  
FIELD BOOK  
DRAWING NO. SS-8  
SHT. 104 OF 159  
L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

02-26-21 08:26:25 F:\Projects\500\500-897-LV\DWG\Production\Phase B\1B\_LV\_SS Sheets 2.dwg



- NOTES:**
1. PRE-CAST POLYMER CONCRETE MANHOLE SECTIONS AND GRADE RINGS SHALL CONFORM TO SPECIAL PROVISIONS SECTION 651.
  2. IN HIGH GROUNDWATER AREAS AND WHERE DIRECTED BY THE AGENCY, SEAL EXTERIOR OF PRE-CAST MANHOLE SECTIONS WITH BITUMASTIC OR EQUAL WATERPROOFING COATING AND PROVIDE DOUBLE SEALS PER AML BETWEEN ALL PRE-CAST SECTIONS, INCLUDING ADJUSTING RINGS.
  3. WHERE THE TRENCH BOTTOM IS UNDISTURBED SOIL, 4-INCHES OF GRANULAR BEDDING MATERIAL, MEETING AGENCY REQUIREMENTS, SHALL BE PLACED UNDER THE PRE-CAST MANHOLE BASE. WHERE THE TRENCH BOTTOM HAS BEEN DISTURBED, AND IN FILL AREAS, 12-INCHES OF GRANULAR BEDDING, MEETING AGENCY REQUIREMENTS, SHALL BE PLACED UNDER THE PRE-CAST MANHOLE BASE. PROVIDE ADDITIONAL SUITABLE FOUNDATION PER WET CONDITIONS, OVER-EXCAVATION, ROCKY TRENCH BOTTOM AND ELSEWHERE AS DIRECTED BY THE AGENCY.
  4. MANHOLE CONE TO BE CENTERED 180 DEGREES FROM OUTLET SEWER PIPE.
  5. CAST-IN-PLACE MANHOLE BASES SHALL BE USED FOR CONSTRUCTION OF NEW SEWER SYSTEMS BEING INSTALLED ALONG EXISTING SANITARY MAINS. CAST-IN-PLACE MANHOLES SHALL BE INSTALLED PER DCSWCS SD-9. COAT BASE PER DCSWCS 3.16.8.B.

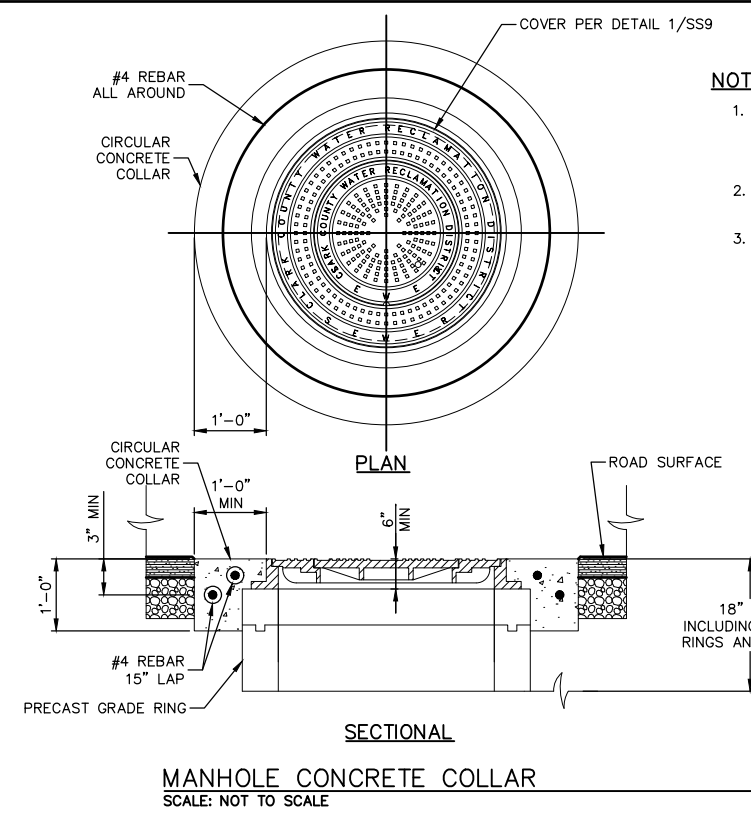
TABLE OF DIMENSIONS*			
SIZE	A	B	C
60"	60"	36"	6" MIN
72"	72"	36"	6" MIN
96"	96"	-	6" MIN

\* GRADE RINGS, CONE, AND RISER SECTIONS SHALL COMPLY WITH SPECIAL PROVISIONS SECTION 651

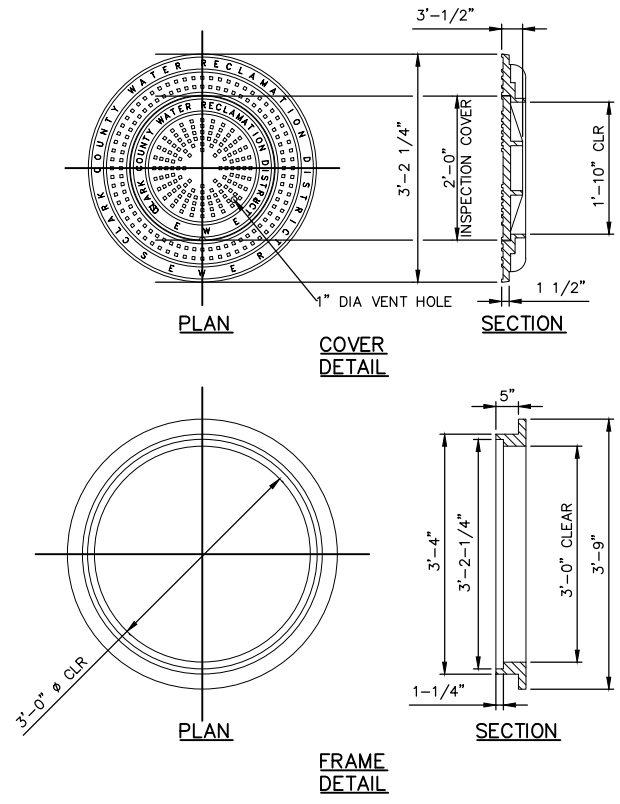
**STANDARD PRE-CAST POLYMER MANHOLE**  
SCALE: NOT TO SCALE

3  
SS-9

\* DETAILS FOR REFERENCE ONLY. ANY DEVIATIONS FROM DCSWCS STANDARD DRAWINGS SHALL BE NOTED IN CCWRD DEVIATION BLOCK ON DWG G-3.



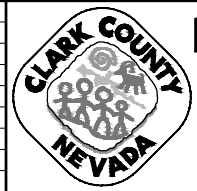
- NOTES:**
1. CONCRETE COLLAR TO BE CONSTRUCTED TO MATCH TOP OF MANHOLE FRAME.
  2. CONCRETE SHALL BE TYPE V 4500 PSI.
  3. COLLAR SHALL BE CIRCULAR.



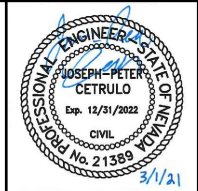
- NOTES:**
1. FRAME AND COVER PER LATEST CCWRD APPROVED MATERIALS LIST.
  2. CAST IRON SHALL MEET ASTM A-48 AND HAVE A MINIMUM TENSILE STRENGTH OF 35,000 LBS/SQ. INCH.
  3. MATING SURFACES OF FRAME AND COVER SHALL BE MACHINED TO FIT WITHOUT ROCKING WITH COVERS IN ANY POSITION WITHIN FRAME OR OUTER COVER.
  4. MANHOLE FRAME AND COVER SHALL MEET HS-20 LOADING REQUIREMENTS.
  5. BOTH INNER AND OUTER COVERS SHALL BE MARKED "CLARK COUNTY RECLAMATION DISTRICT" AND "SEWER".
  6. CONCENTRIC DUAL COVER SHALL BE USED.
  7. MANHOLE COVER SECURING DEVICE PER DCSWCS 2019 4TH EDITION SD-6.
  8. WEIGHT OF FRAME AND COVER 800 LBS MINIMUM.

**36" DIA AND 24" DIA DUAL MANHOLE COVER AND FRAME**  
SCALE: NOT TO SCALE

1  
SS-9



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SANITARY SEWER DETAILS I**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



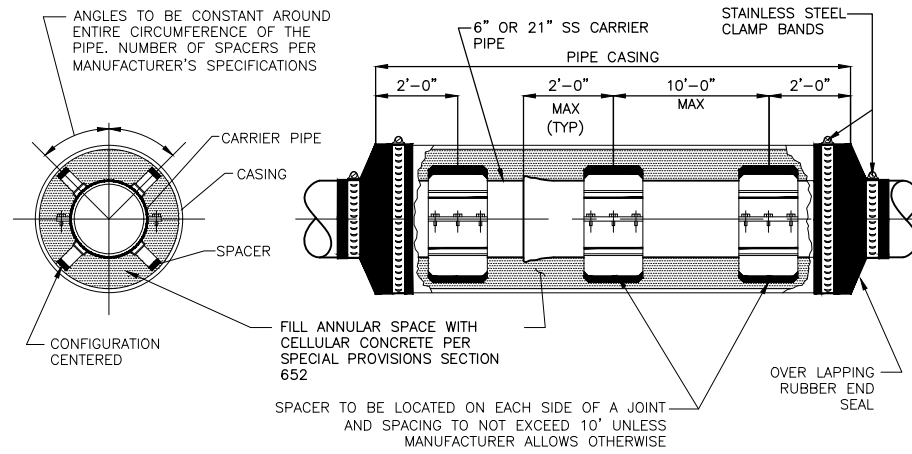
PROJECT No: 500-897-LV DRAWN BY: MVD  
DESIGNED BY: WLF CHECKED BY: JPC  
APPROVED BY: [Signature]

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	SS-9
VERT: NONE	SHT. 105 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20



CASING TABLE			
CASING THICKNESS	SPACER WIDTH	SS PIPE SIZE	* CASING OD
1/2"	12"	21"	36"
1/4"	12"	6"	16"

\* CASING PIPE OD TO BE CONFIRMED BY CONTRACTOR DEPENDING ON CARRIER PIPE SELECTED.

**NOTES**

- STEEL CASING PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUND TO SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206, "AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE". COATINGS FOR STEEL CASING ARE NOT REQUIRED. PROPRIETARY NON-WELDED STEEL CASINGS MAY BE UTILIZED IN CONFORMANCE WITH SPECIAL PROVISIONS SECTION 630.
- CASING PIPE SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
- AGENCY APPROVED CASING SPACERS AND END SEALS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- ALL PIPE JOINTS WITHIN THE CASING ARE TO BE EXTERNALLY RESTRAINED.
- ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING TO BE FILLED WITH CELLULAR CONCRETE PER SPECIAL PROVISIONS SECTION 652.
- CONTACT GROUT SHALL BE PLACED BETWEEN THE CASING PIPE AND THE GROUND PER SPECIAL PROVISIONS SECTION 652.
- CASING SHALL BE INSTALLED TO THE GRADE SHOWN ON THE DRAWINGS, WITH A MAXIMUM VERTICAL DEVIATION OF +0' AND -2', AND A MAXIMUM HORIZONTAL DEVIATION OF ±2' PROVIDED THE ALIGNMENT DOES NOT CONFLICT WITH OTHER UTILITIES.

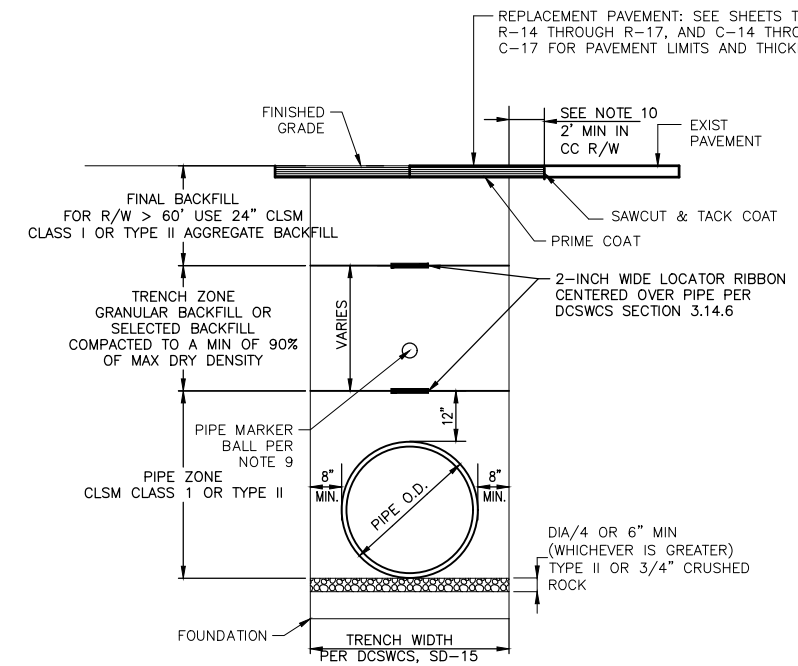
**CASING ASSEMBLY - 6" AND 21" SS PIPE ONLY**  
SCALE: NOT TO SCALE

SS-3, SS-4, & SS-11



**NOTES**

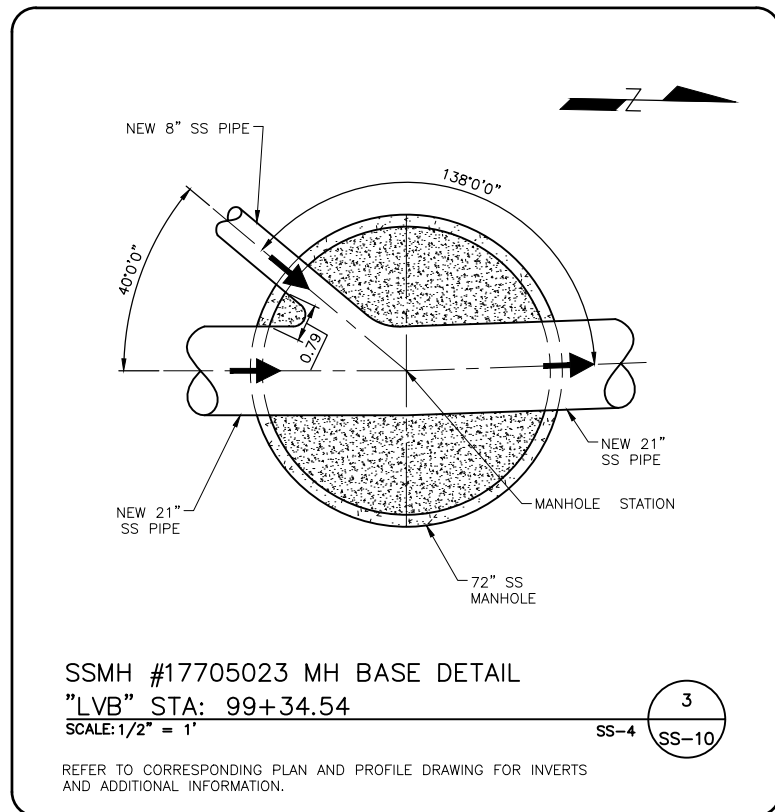
- LIMITS OF EXCAVATION, SUPPORTS, AND/OR SHORING SHALL COMPLY WITH CURRENT REGULATIONS AS DETERMINED BY OSHA REQUIREMENTS.
- BACKFILL MATERIAL WITHIN 36-INCHES OF TOP OF PIPE SHALL BE COMPACTED USING HAND-OPERATED COMPACTION EQUIPMENT ONLY.
- BACKFILL GREATER THAN 36-INCHES ABOVE TOP OF PIPE SHALL BE COMPACTED USING HEAVY CRAWLER-MOUNTED OR WHEEL MOUNTED COMPACTION EQUIPMENT ONLY.
- BACKFILL MATERIALS, UNLESS OTHERWISE NOTED, PER DCSWCS.
- IF SAWCUT IS WITHIN 8 FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- NO STONES OR LUMPS GREATER THAN 3-INCH PERMITTED IN TRENCH.
- SUPPORT PIPE WITH GRAVEL BAGS AND SPOT LOAD AS REQUIRED DURING INSTALLATION OF CLSM OR TYPE II IN PIPE ZONE AND PIPE BEDDING AREAS. TAKE NECESSARY PRECAUTIONS IN PLACEMENT AND COMPACTION OF CLSM OR TYPE II TO PREVENT DISPLACEMENT OF PIPE.
- MECHANICAL COMPACTION ONLY; NO JETTING OR FLOODING ALLOWED.
- MARKER BALLS TO BE PLACED ABOVE ALL NEW LATERAL CONNECTIONS TO SEWER MAIN AND ABOVE ALL EXISTING LATERALS CONNECTIONS THAT COME EXPOSED DURING CONSTRUCTION. MARKER BALLS SHALL BE PLACED IN ACCORDANCE WITH SD-23 IN DCSWCS.
- COMPLY WITH EARTHWORK REQUIREMENTS IDENTIFIED IN DCSWCS SECTION 3.



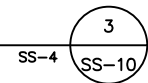
**SANITARY SEWER PIPE TRENCH DETAIL**  
SCALE: NOT TO SCALE



\* DETAILS FOR REFERENCE ONLY. ANY DEVIATIONS FROM DCSWCS STANDARD DRAWINGS SHALL BE NOTED IN CCWRD DEVIATION BLOCK ON DWG G-3.

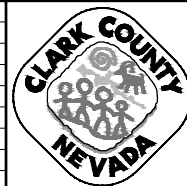


SSMH #17705023 MH BASE DETAIL  
"LVB" STA: 99+34.54  
SCALE: 1/2" = 1'



REFER TO CORRESPONDING PLAN AND PROFILE DRAWING FOR INVERTS AND ADDITIONAL INFORMATION.

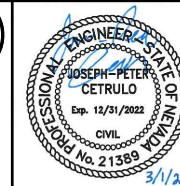
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**SANITARY SEWER DETAILS II**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



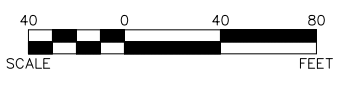
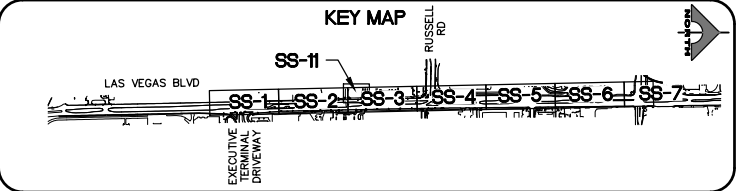
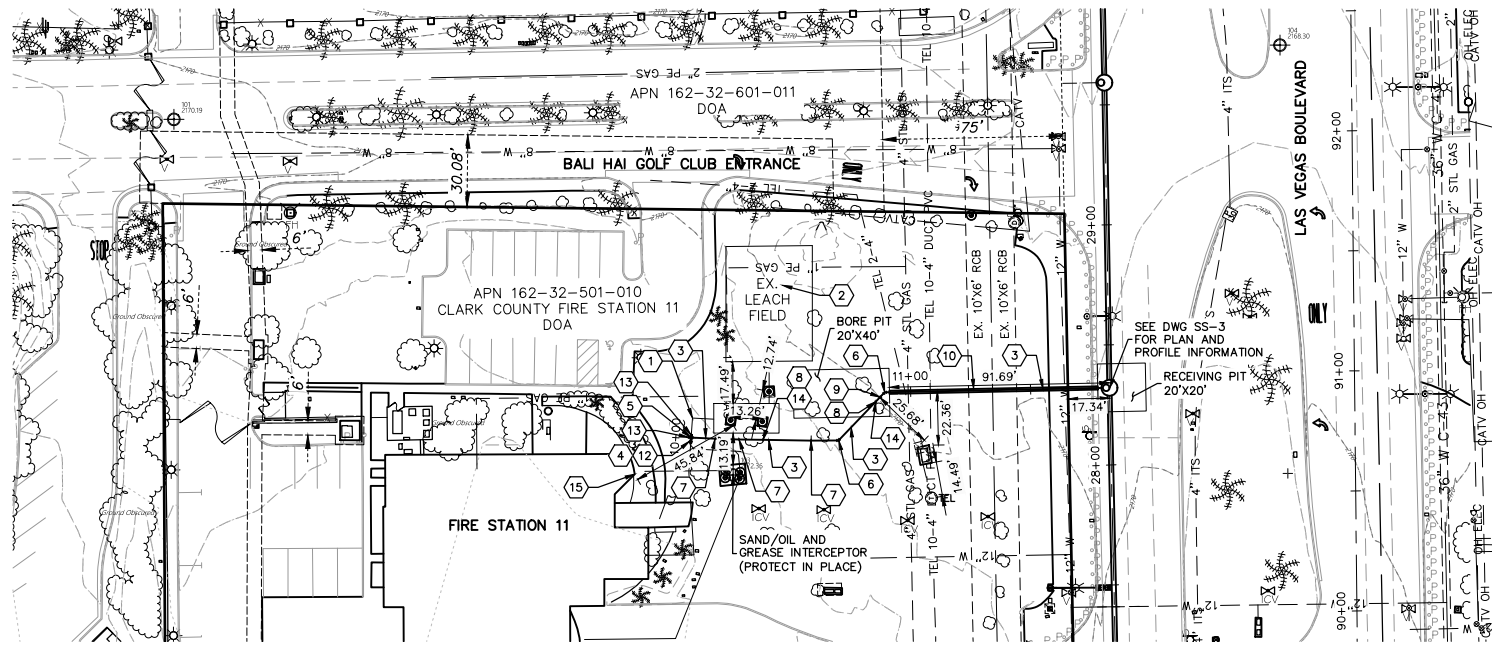
PROJECT No: 500-897-LV DRAWN BY: MVD  
DESIGNED BY: WLF CHECKED BY: JPC  
APPROVED BY: [Signature]  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	SS-10
VERT: NONE	SHT. 106 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

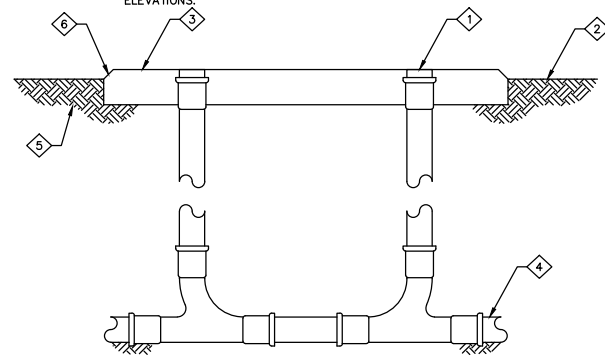




- SEWER CONSTRUCTION NOTES**
- CUT AND REMOVE EXISTING 4" PVC SS.
  - ABANDON EXISTING SEPTIC TANK, DISTRIBUTION BOX, PIPING, AND DRAIN FIELD PER SPECIFICATION 630 AND SMHD "ABANDONMENT OF SEPTIC AND LEACH FIELD" DIRECTIONS. CUT AND CAP DRAIN FIELD.
  - INSTALL 6" SS PVC C-900 (PRIVATE) PIPE PER DCSWCS SD-16.
  - INSTALL 6"x4" REDUCER.
  - INSTALL HORIZONTAL 90° BEND (SIZE PER PLAN).
  - INSTALL HORIZONTAL 45° BEND (SIZE PER PLAN).
  - PULL JOINT 1" (MAX.) HORIZONTAL (SIZE PER PLAN).
  - INSTALL VERTICAL 11.25° BEND (SIZE PER PLAN).
  - INSTALL TWO-WAY CLEAN OUT PER DETAIL 1, THIS DWG.
  - INSTALL 16" STEEL PIPE CASING PER DETAIL 2, DWG SS-10. JACK AND BORE PER SECTION 652.
  - NOT USED.
  - CONNECT TO EXISTING 4" SS.
  - INSTALL SS CLEAN OUT PER DCSWCS SD-24.
  - INSTALL CONCRETE CASING PER DCSWCS SD-25.
  - EXISTING STRUCTURE WITH SURVEY SETTLEMENT MONITORING PER SPECIFICATION 654.
- CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND INVERT OF EXISTING PIPE, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO NEW SEWER CONSTRUCTION

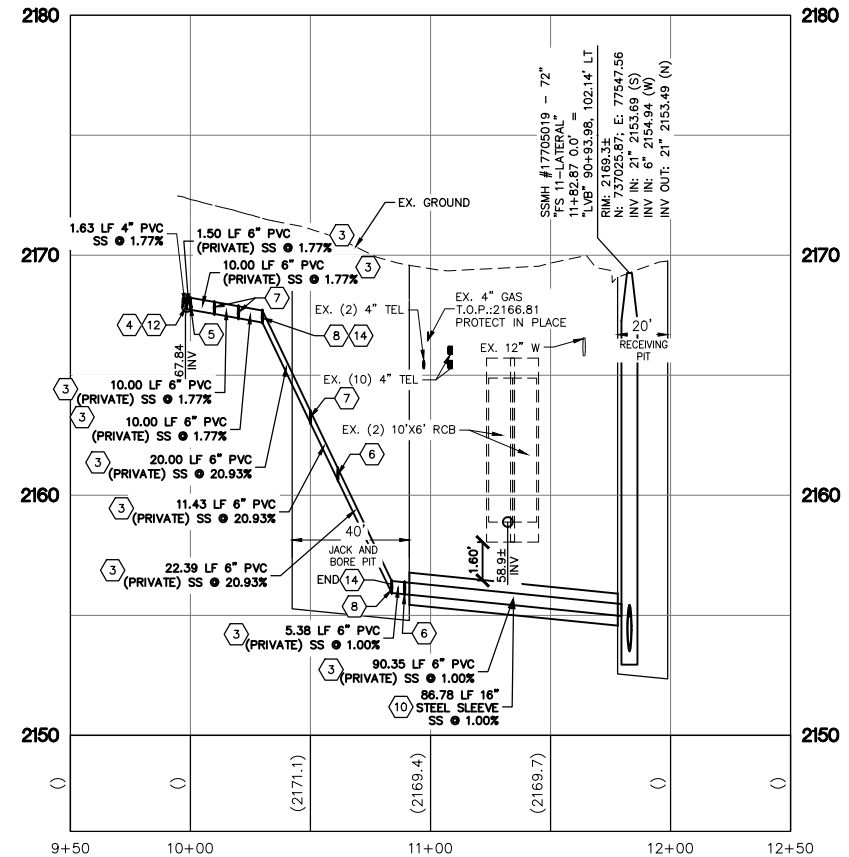
**GENERAL DETAIL NOTES**

- PROVIDE 1420 RATED CONCRETE AND CLEAN OUT ASSEMBLY
- POUR CONCRETE IN PLACE, COORDINATE WITH ROAD AND SURROUNDING SURFACE ELEVATIONS



- IRON FERRULE WITH METAL COUNTERSUNK SCREW PLUG
- FINISH GRADE
- 2'-0" SQ. X 4" THICK CONCRETE COLLAR WITH #4 BAR EACH WAY
- SEE PLANS FOR MAIN SIZE
- ASPHALT OR COMPACTED EARTH
- CHAMFER EDGE

**TWO-WAY GRADE CLEANOUT**  
SCALE: NOT TO SCALE



**LANDSCAPING NOTE:**  
CONTRACTOR TO REMOVE/REPLACE EXISTING HARDSCAPE AND/OR LANDSCAPE WITH LIKE/SIMILAR MATERIALS IF DISTURBED DURING SEWER INSTALLATION PER SECTION 212 OF THE SPECIFICATIONS.

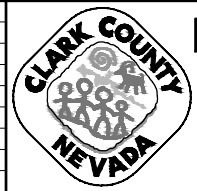
**NOTE:**  
ALL PIPE LENGTHS ARE REPORTED AS CENTER TO CENTER OF STRUCTURE. CONTRACTOR TO BE PAID PER PIPE LENGTH INSTALLED.

**STRUCTURE NOTE:**  
MANHOLE RIM ELEVATIONS ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. ALL MANHOLE RIMS AND COVERS MUST BE ADJUSTED TO MATCH FINISH GRADE AT TIME OF CONSTRUCTION.

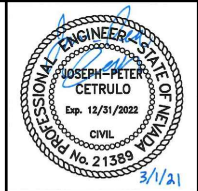
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
LVVWD PROJECT # 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**  
**FIRE STATION 11: SANITARY SEWER LATERAL**  
**PLAN AND PROFILE**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

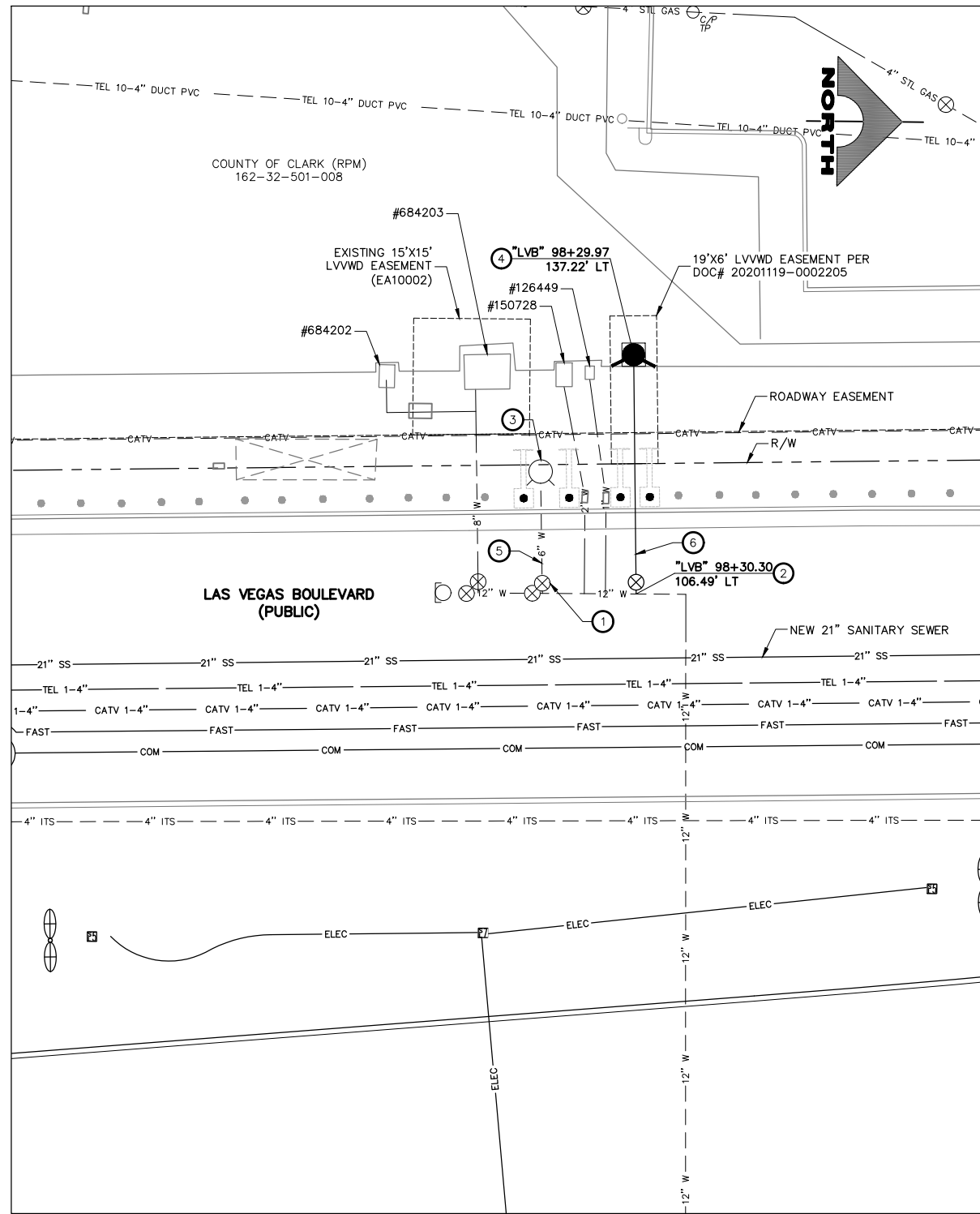
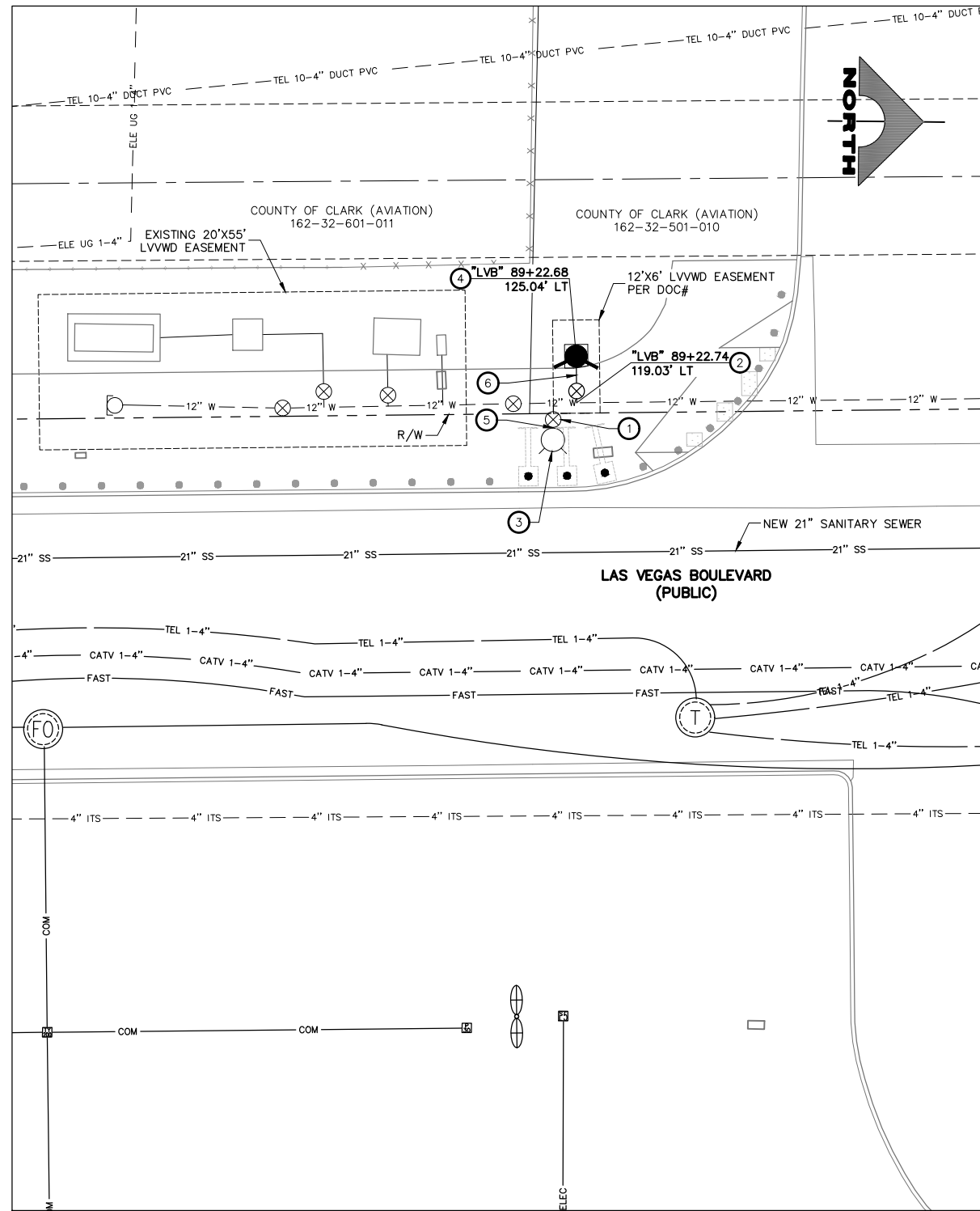


PROJECT No: 500-897-LV DRAWN BY: ACW  
DESIGNED BY: ACW CHECKED BY: JPC  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 4'  
FIELD BOOK  
DRAWING NO. **SS-11**  
SHT. 107 OF 159  
L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B) BID NO.: 605718-20



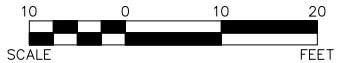
- UTILITY NOTES**
- 1 ABANDON WATER VALVE
  - 2 INSTALL 12"X6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - 3 REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - 4 INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - 5 REMOVE WATERLINE
  - 6 INSTALL 6-INCH DIP WATERLINE

**ABANDONED VALVES CUT AND CAP**

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED, IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE NO. 31.

**BOLLARD NOTE**

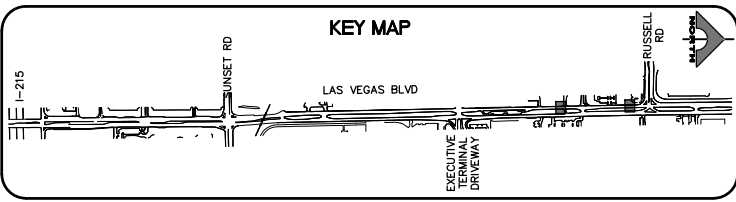
NO BOLLARD SHALL BE CUT INTO WHERE WATER LATERALS ARE INSTALLED UNLESS IT IS A TEMPORARY BOLLARD.



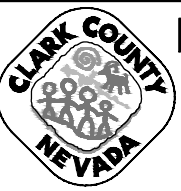
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

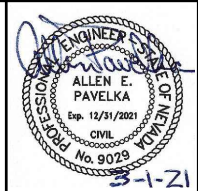
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**UTILITY PLAN**  
"LVB" 88+50.00 TO "LVB" 89+75.00 & "LVB" 97+50.00 TO "LVB" 98+75.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



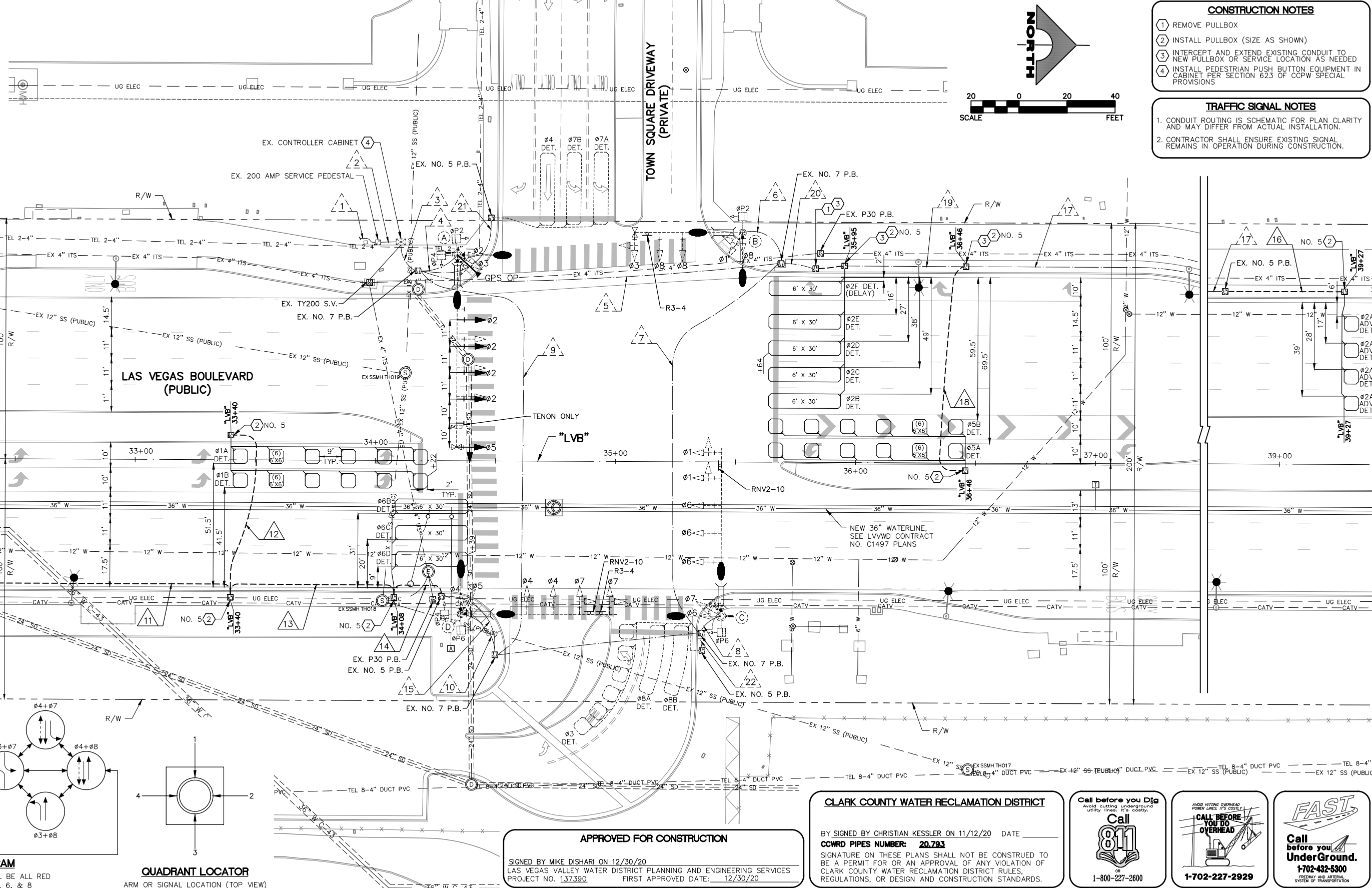
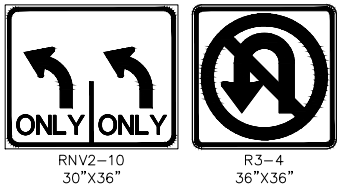
PROJECT No: 500-897-LV DRAWN BY: DSH  
DESIGNED BY: DSH CHECKED BY: AEP  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-1
VERT: NONE	SHT. 108 OF 159
FIELD BOOK	L-2272

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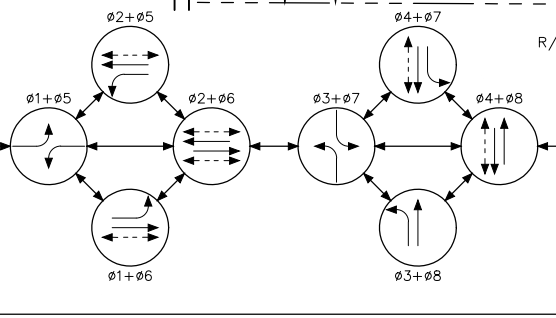
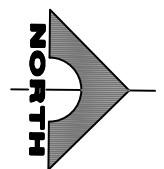
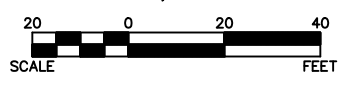
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20





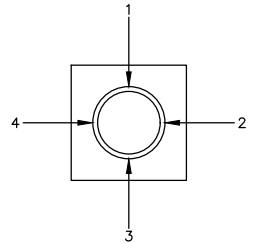
- CONSTRUCTION NOTES**
- 1 REMOVE PULLBOX
  - 2 INSTALL PULLBOX (SIZE AS SHOWN)
  - 3 INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX OR SERVICE LOCATION AS NEEDED
  - 4 INSTALL PEDESTRIAN PUSH BUTTON EQUIPMENT IN CABINET PER SECTION 623 OF CCPW SPECIAL PROVISIONS

- TRAFFIC SIGNAL NOTES**
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
  2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.



**PHASE DIAGRAM**

FLASHING OPERATION SHALL BE ALL RED  
OPTICOM PHASES 2, 4, 6, & 8



**QUADRANT LOCATOR**  
ARM OR SIGNAL LOCATION (TOP VIEW)

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

Call before you Dig  
Avoid cutting underground utility lines. It's costly.

1-800-227-2600

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

**FAST**

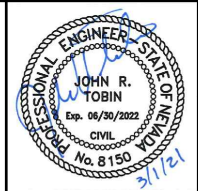
Call before you UnderGround.

1-702-432-5300  
TRENCH AND MATERIAL SYSTEMS OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL MODIFICATION PLAN**  
**LAS VEGAS BOULEVARD/TOWN SQUARE**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: JRT  
APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS SURVEYORS

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

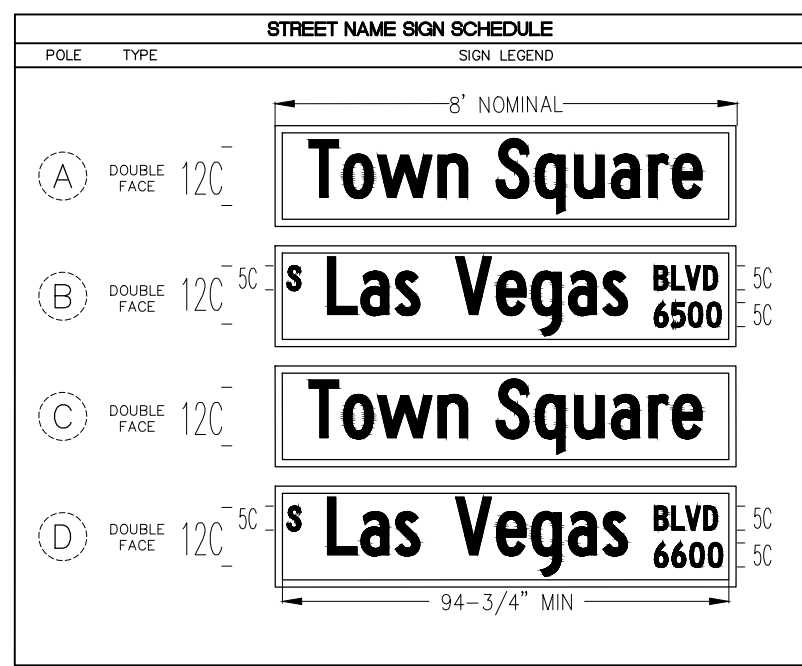
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HORIZ: AS SHOWN	TS-1
VERT: NONE	SHT. 109 OF 159
FIELD BOOK	L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



F:\Projects\500\500-897-LV\DWG\Production\Phase B\2A\_LVB\_IS1\_Sheets (Town Square).dwg



### POLE SCHEDULE

POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL ARM QUAD.	SIGNAL ARM LENGTH	LUM. ARM QUAD.	LUM. ARM LENGTH	TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.		TYPE (PHASE)
(A)	EXISTING	XX-B(E)	3(E)	80'(E)	2(E) 3(E)	15'(E) 15'(E)	M-2(5) B-2T(E)	MAST ARM 1(E)	(E)	(E)	2(#4) 3(#2)	LT RT	4	R(#2) B(#3)	EXISTING POLE. REMOVE EXISTING MAST ARM SIGNAL HEADS. REMOVE AND SALVAGE VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW M-2 HEAD (#5) ON EXISTING TENON. INSTALL FOUR NEW M-2 HEADS (#2) ON NEW TENONS. ALL NEW TENONS SHALL BE HOT-STICK GALVANIZED. REMOVE UNUSED TENONS, WELD PATCH TO CLOSE HOLES, AND HOT-STICK GALVANIZE PATCH. INSTALL V2X ROADSIDE UNIT (RSU) ON POLE SHAFT. INSTALL GPS PREEMPTION SYSTEM. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB (AUDIBLE). REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGNS AND REPLACE WITH NEW AS INDICATED IN SIGN SCHEDULE. REMOVE AND SALVAGE 400W HPS LUMINAIRES AND INSTALL 400W EQUIVALENT LED LUMINAIRES. #5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS.
(B)	EXISTING	XX-A(E)	4(E)	45'(E)	3(E) 4(E)	15'(E) 15'(E)	(E)	(E)	(E)	(E)	3(#2)	LT	-	-	EXISTING POLE. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB (AUDIBLE). REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGNS AND REPLACE WITH NEW AS INDICATED IN SIGN SCHEDULE. REMOVE AND SALVAGE R3-4, AND MOUNT NEW R3-4 ON MAST ARM. REMOVE AND SALVAGE 400W HPS LUMINAIRES AND INSTALL 400W EQUIVALENT LED LUMINAIRES.
(C)	EXISTING	XX-B(E)	1(E)	70'(E)	1(E) 4(E)	15'(E) 15'(E)	(E)	(E)	(E)	(E)	1(#6)	RT	2	R(#6) B(#7)	EXISTING POLE. REMOVE AND SALVAGE NMR3-BY AND MOUNT RVN2-10 ON MAST ARM. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB (AUDIBLE). REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGNS AND REPLACE WITH NEW AS INDICATED IN SIGN SCHEDULE. REMOVE AND SALVAGE 400W HPS LUMINAIRES AND INSTALL 400W EQUIVALENT LED LUMINAIRES.
(D)	EXISTING	XX-A(E)	2(E)	65'(E)	1(E) 2(E)	15'(E) 15'(E)	(E)	(E)	(E)	(E)	1(#6) 2(#4)	LT RT	-	-	EXISTING POLE. REMOVE AND SALVAGE R3-4 AND NMR3-BY, AND MOUNT NEW R3-4 AND RVN2-10 ON MAST ARM. REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGNS AND REPLACE WITH NEW AS INDICATED IN SIGN SCHEDULE. REMOVE AND SALVAGE 400W HPS LUMINAIRES AND INSTALL 400W EQUIVALENT LED LUMINAIRES.

ALL NEW SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDCCA STD. DWG. NOS. 840 AND 841).  
 ALL EXISTING SIGNAL HEAD SHALL HAVE BACKPLATES REPLACED WITH PELCO AEROFELX WITH REFLECTIVE YELLOW BORDER.  
 (E) = EXISTING  
 B = BLUE  
 R = RED

### CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	VIA CONDUIT																							
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
EXISTING	NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)																								
EXISTING	SERVICE PEDESTAL(E)	CONTROLLER(E)																								
EXISTING GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE BELDEN 8281 COAXIAL CABLE 3-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E)	POLE A(E)																								
EXISTING BELDEN 8281 COAXIAL CABLE 3-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E)	POLE B(E)																								
EXISTING BELDEN 8281 COAXIAL CABLE 3-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E)	POLE C(E)																								
EXISTING BELDEN 8281 COAXIAL CABLE 3-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E)	POLE D(E)																								
1-#12 AWG. ADVANCED LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET #6A																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #1A, #1B																								
3-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #6B, #6C, #6D																								
1-#12 AWG. ADVANCED LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET #2A																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #5A, #5B																								
5-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #2B, #2C, #2D, #2E, #2F																								
EXISTING	CONTROLLER(E)	DET #4(E), #7A(E), #7B(E)																								
EXISTING	CONTROLLER(E)	DET #3(E), #8A(E), #8B(E)																								
CONDUIT SIZE (E) EXISTING			(E)	(E)	4-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	

1. A NO. 8 GROUNDING WIRE SHALL BE RAN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.
2. VIDEO DETECTION CABLES FOR FUTURE USE SHALL RUN FROM THE CONTROLLER CABINET TO THE SIGNAL POLE BASE.
3. PROVIDE TWELVE FOOT OF SLACK IN CABINET AND ADEQUATE SLACK IN POLE BASE TO EXTEND TWO FEET BEYOND RIM OF HAND HOLE.
4. CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDCCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.
5. CONTRACTOR SHALL REMOVE AND REPELL EXISTING CONDUCTORS AS NEEDED.

REV. NO.	DATE	DESCRIPTION	APPROVED

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### TRAFFIC SIGNAL SCHEDULES AND DETAILS

### LAS VEGAS BOULEVARD/TOWN SQUARE

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV DRAWN BY: TAA

DESIGNED BY: DSH CHECKED BY: JRT

APPROVED BY: \_\_\_\_\_

SCALE: \_\_\_\_\_

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK: \_\_\_\_\_

DRAWING NO. **TS-2**

SHT. 110 OF 159

L-2272

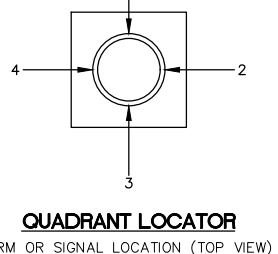
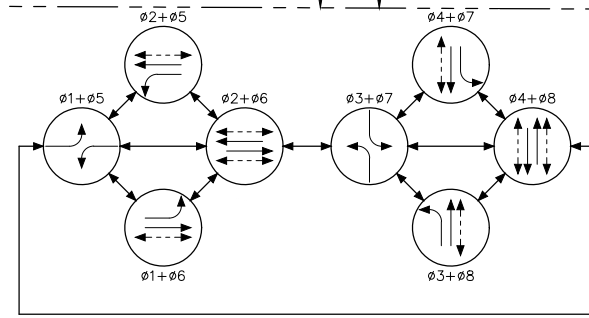
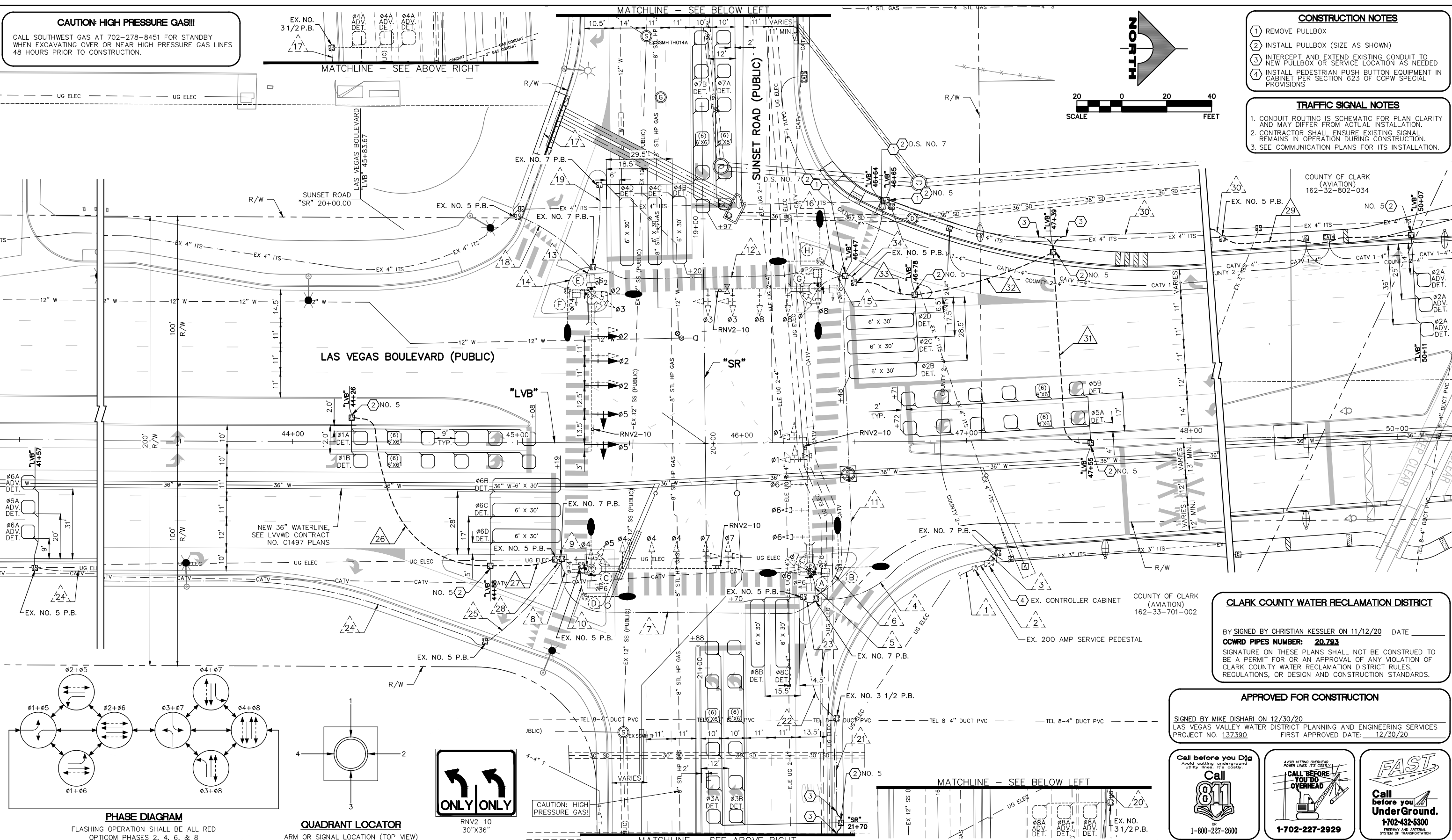
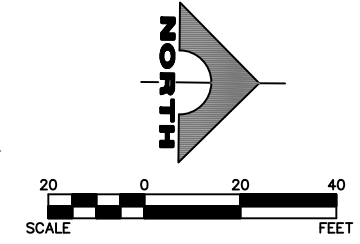
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY  
 WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES  
 48 HOURS PRIOR TO CONSTRUCTION.

- CONSTRUCTION NOTES**
- 1 REMOVE PULLBOX
  - 2 INSTALL PULLBOX (SIZE AS SHOWN)
  - 3 INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX OR SERVICE LOCATION AS NEEDED
  - 4 INSTALL PEDESTRIAN PUSH BUTTON EQUIPMENT IN CABINET PER SECTION 623 OF CCPW SPECIAL PROVISIONS

- TRAFFIC SIGNAL NOTES**
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
  2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
  3. SEE COMMUNICATION PLANS FOR ITS INSTALLATION.



**PHASE DIAGRAM**  
 FLASHING OPERATION SHALL BE ALL RED  
 OPTICOM PHASES 2, 4, 6, & 8

**QUADRANT LOCATOR**  
 ARM OR SIGNAL LOCATION (TOP VIEW)

CAUTION: HIGH PRESSURE GAS!

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.

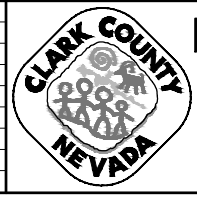
1-800-227-2600

CALL BEFORE YOU DO OVERHEAD

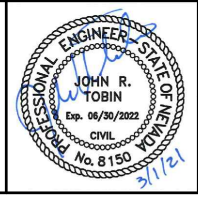
1-702-227-2929

**FAST**  
 Call before you UnderGround.  
 1-702-432-5300  
 FRENCH AND METZ SYSTEM OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL MODIFICATION PLAN**  
**LAS VEGAS BOULEVARD/SUNSET ROAD**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV**  
 ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

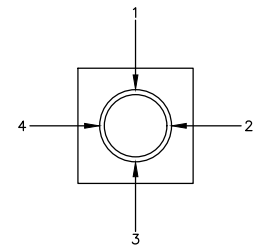
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FIELD BOOK	L-2272

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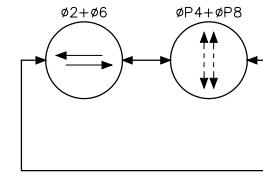
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



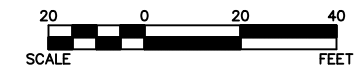
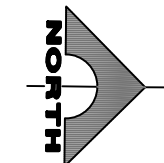




**QUADRANT LOCATOR**  
ARM OR SIGNAL LOCATION (TOP VIEW)

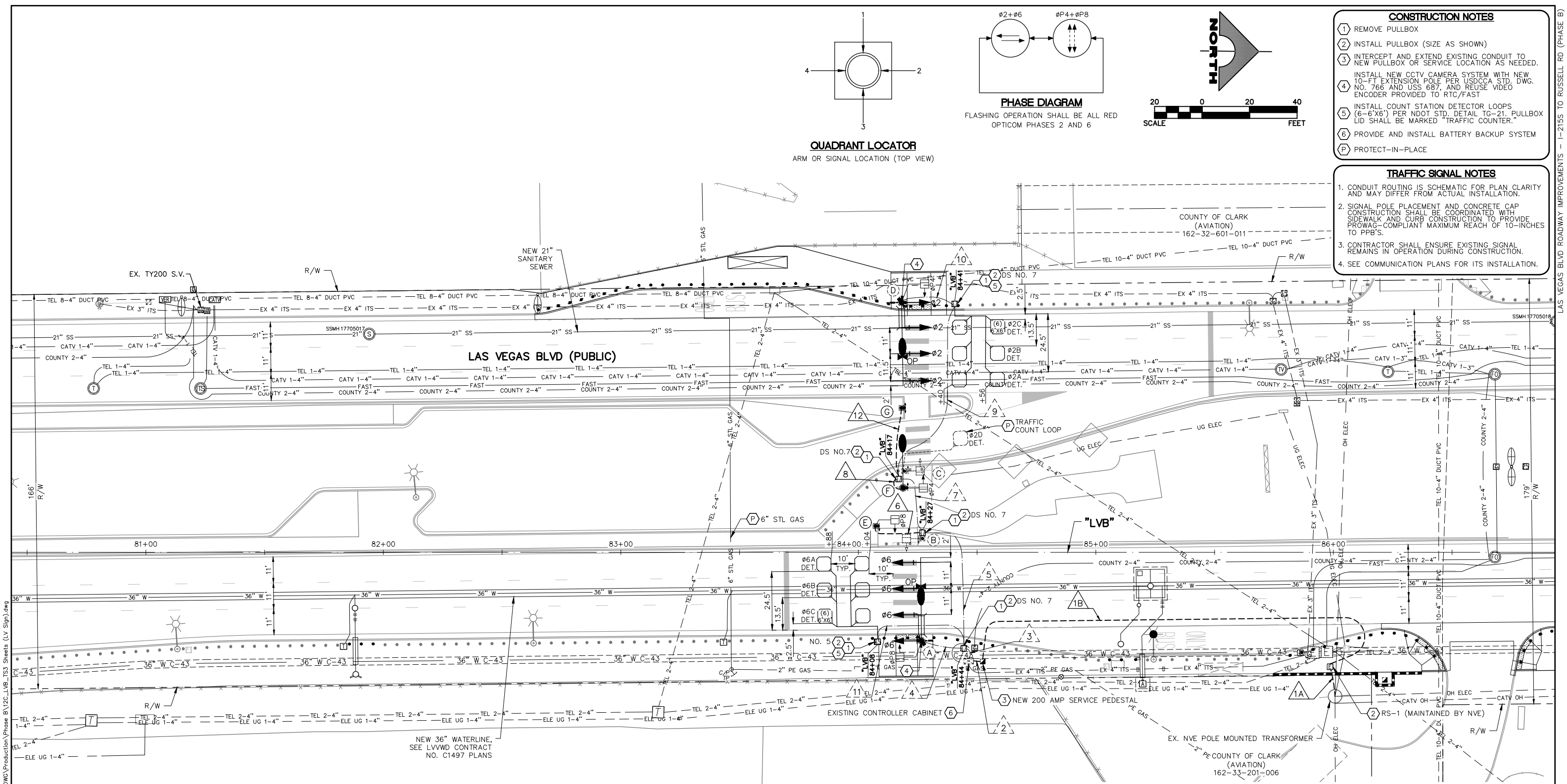


**PHASE DIAGRAM**  
FLASHING OPERATION SHALL BE ALL RED OPTICOM PHASES 2 AND 6



- CONSTRUCTION NOTES**
- 1 REMOVE PULLBOX
  - 2 INSTALL PULLBOX (SIZE AS SHOWN)
  - 3 INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX OR SERVICE LOCATION AS NEEDED.
  - 4 INSTALL NEW CCTV CAMERA SYSTEM WITH NEW 10-FT EXTENSION POLE PER USCCA STD. DWG. NO. 766 AND USS 687, AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST
  - 5 INSTALL COUNT STATION DETECTOR LOOPS (6'-6'X6") PER NDOT STD. DETAIL TG-21. PULLBOX LID SHALL BE MARKED "TRAFFIC COUNTER."
  - 6 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
  - P PROTECT-IN-PLACE

- TRAFFIC SIGNAL NOTES**
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
  2. SIGNAL POLE PLACEMENT AND CONCRETE CAP CONSTRUCTION SHALL BE COORDINATED WITH SIDEWALK AND CURB CONSTRUCTION TO PROVIDE PROWAG-COMPLIANT MAXIMUM REACH OF 10-INCHES TO PPB'S.
  3. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
  4. SEE COMMUNICATION PLANS FOR ITS INSTALLATION.



F:\Projects\500-897-LV\DWG\Production\Phase B\20-LVB-TS3 Sheets (LV Sign).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)

**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

Call before you Dig  
Avoid cutting underground utility lines it's costly.

**Call 811**  
OR  
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES IT'S COSTLY.

**CALL BEFORE YOU DO OVERHEAD**

**1-702-227-2929**

**FAST**

Call before you UnderGround.

**1-702-432-5300**  
TRENCH AND UTILITY SYSTEMS OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED

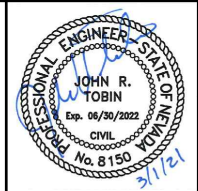
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-2155 TO RUSSELL RD (PHASE B)**

**TRAFFIC SIGNAL MODIFICATION PLAN**

**PEDESTRIAN CROSSING AT WELCOME TO LV SIGN**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: JRT  
APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS & SURVEYORS

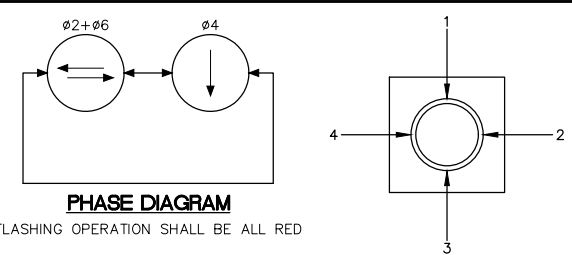
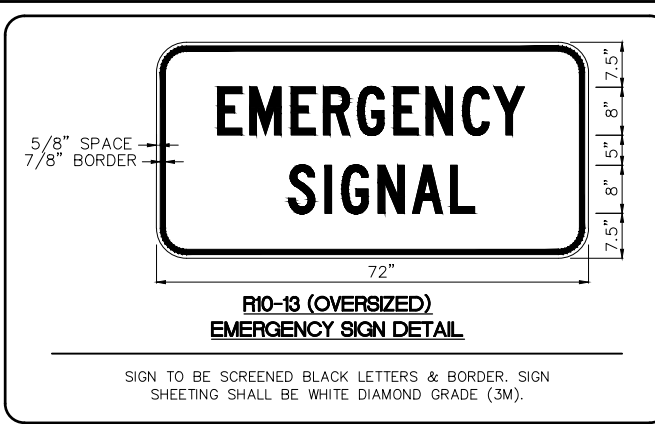
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO. **TS-5**  
SHT. 113 OF 159  
L-2272

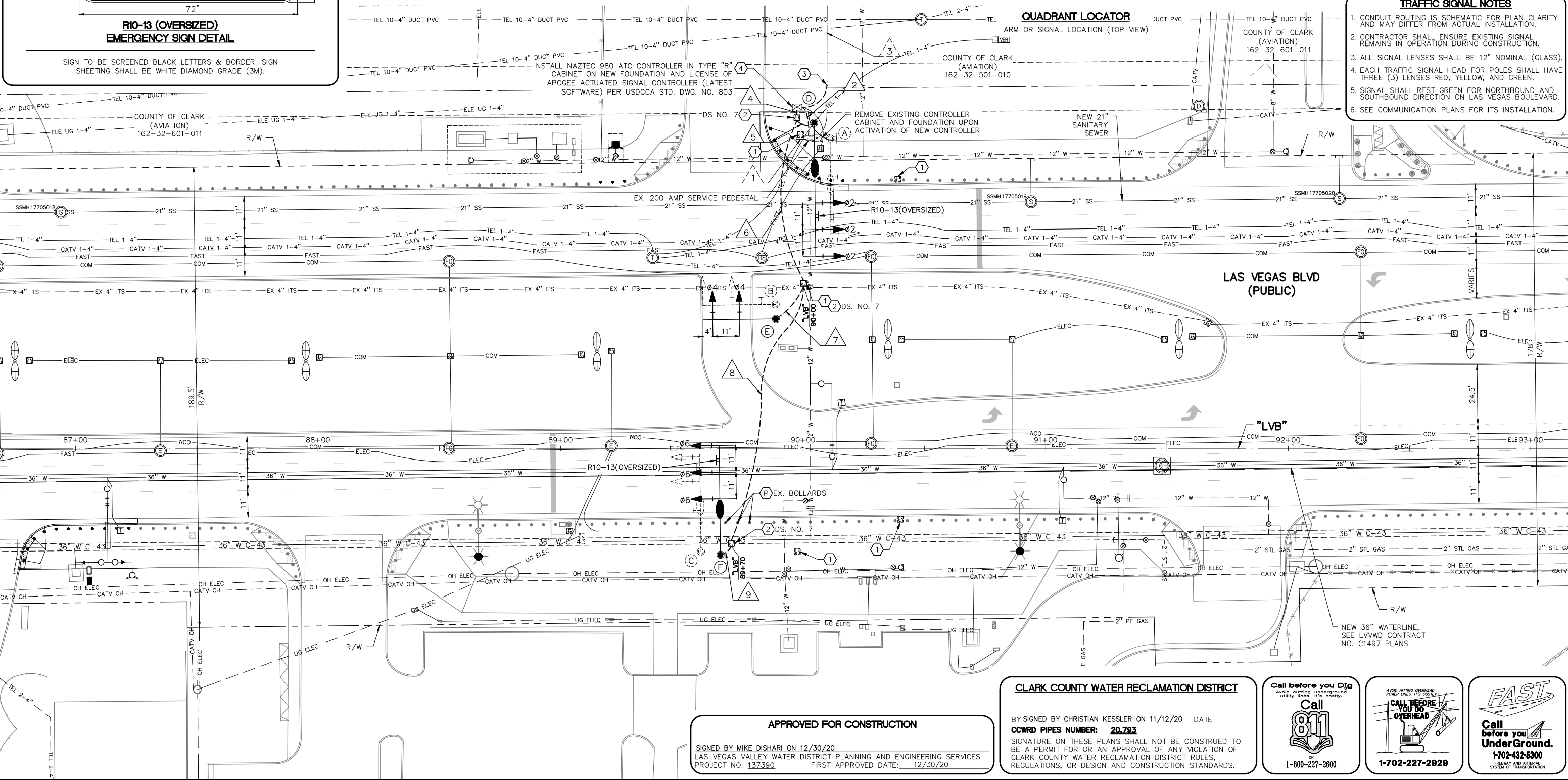
BID NO.: 605718-20





- CONSTRUCTION NOTES**
- 1 REMOVE PULLBOX
  - 2 INSTALL PULLBOX (SIZE AS SHOWN)
  - 3 INTERCEPT AND EXTEND EXISTING CONDUIT AND CONDUCTORS/CABLE TO NEW PULLBOX, SERVICE LOCATION, OR CABINET AS NEEDED
  - 4 PROVIDE AND INSTALL BACKUP BATTERY SYSTEM
  - 5 PROTECT-IN-PLACE

- TRAFFIC SIGNAL NOTES**
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
  2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
  3. ALL SIGNAL LENSES SHALL BE 12" NOMINAL (GLASS).
  4. EACH TRAFFIC SIGNAL HEAD FOR POLES SHALL HAVE THREE (3) LENSES RED, YELLOW, AND GREEN.
  5. SIGNAL SHALL REST GREEN FOR NORTHBOUND AND SOUTHBOUND DIRECTION ON LAS VEGAS BOULEVARD.
  6. SEE COMMUNICATION PLANS FOR ITS INSTALLATION.



**APPROVED FOR CONSTRUCTION**

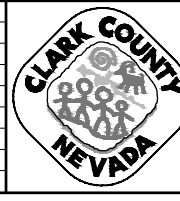
SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

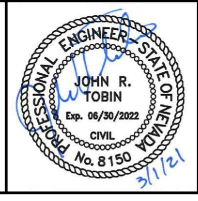
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL MODIFICATION PLAN**  
**EMERGENCY SIGNAL AT FIRE STATION 11**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	TS-7
VERT: NONE	SHT. 115 OF 159
FIELD BOOK	L-2272

02-26-21 08:08:47 F:\Projects\500-897-LV\DWG\Production\Phase B\2D\LV\_TS4\_Sheets (Fire Station 11).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



02-26-21 08:08:58 F:\Projects\500\500-897-LV\DWG\Production\Phase B\2D\_LVB\_TS4\_Sheets (Fire Station 11).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

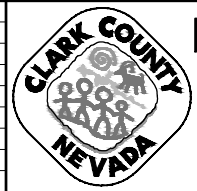
POLE SCHEDULE															
POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL ARM		LUM. ARM		TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.		TYPE (PHASE)
			QUAD.	LENGTH	QUAD.	LENGTH									
(A)	EXISTING	XX(E)	3(E)	40'(E)	3(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE D. REMOVE FOUNDATION TO 18" BELOW GRADE.
(B)	EXISTING	XX(E)	4(E)	30'(E)	-	-	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION TO 18" BELOW GRADE.
(C)	EXISTING	XX(E)	1(E)	40'(E)	1(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION TO 18" BELOW GRADE.
(D)	"LVB" 90+04.6 134.2' LT	XX-A	3	55'	3	15'	M-2(3)	MAST ARM	-	-	-	-	-	-	NEW POLE. MOUNT R10-13(OVERSIZE) ON MAST ARM. INSTALL V2X ROADSIDE UNIT (RSU) ON POLE SHAFT.
(E)	"LVB" 89+88.7 53.3' LT	XX-A-20'	4	30'	-	-	M-2(2)	MAST ARM	-	-	-	-	-	-	NEW POLE.
(F)	"LVB" 89+65.9 43.9' RT	XX-A	1	45'	1	15'	M-2(3)	MAST ARM	-	-	-	-	-	-	NEW POLE. MOUNT R10-13(OVERSIZE) ON MAST ARM.

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDCCA STD. DWG. NOS. 840 AND 841)  
 ALL POLES, MAST ARMS, TENONS, EXTENSION POLES, AND LUMINAIRES SHALL BE PAINTED FIRE GREEN (RAL 6009) METALLIC  
 ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9935 S. JONES BLVD.  
 (E) = EXISTING  
 R = RED

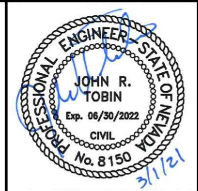
CONDUIT AND WIRE SCHEDULE															
WIRE & CABLE	FROM	TO	VIA CONDUIT												
			1	2	3	4	5	6	7	8	9				
EXISTING	NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)	X												
4-#4 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	CONTROLLER		X											
EXISTING	CONTROLLER	FIRE STATION PUSH BUTTON			X										
25 CONDUCTOR #14 SIG. CABLE (IMSA 20-1) V2X ROADSIDE UNIT (RSU) CABLE	CONTROLLER	POLE D				X									
25 CONDUCTOR #14 SIG. CABLE (IMSA 20-1)	CONTROLLER	POLE B					X								
25 CONDUCTOR #14 SIG. CABLE (IMSA 20-1)	CONTROLLER	POLE F						X							
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE D LUMINAIRE		X											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE F LUMINAIRE			X										
CONDUIT SIZE (E) EXISTING			(E)	1-3"	1-3"	2-2" (E)	3-3"	1-3"	2-3"	1-3"	2-3"	1-3"			

1. A NO. 8 GROUNDING WIRE SHALL BE RAN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.
2. CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDCCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.
3. CONTRACTOR SHALL REMOVE AND REPULL EXISTING CONDUCTORS AS NEEDED.
4. CONDUIT 8 SHALL BE PUNCHED UNDER EXISTING BOLLARDS FOUNDATION WITHOUT AN OPEN TRENCH.

REV. NO.	DATE	DESCRIPTION	APPROVED

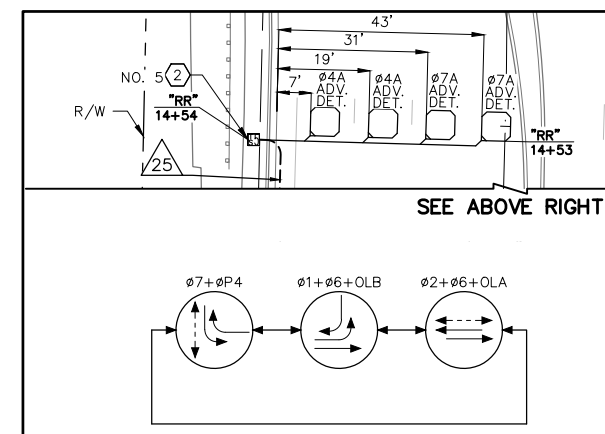
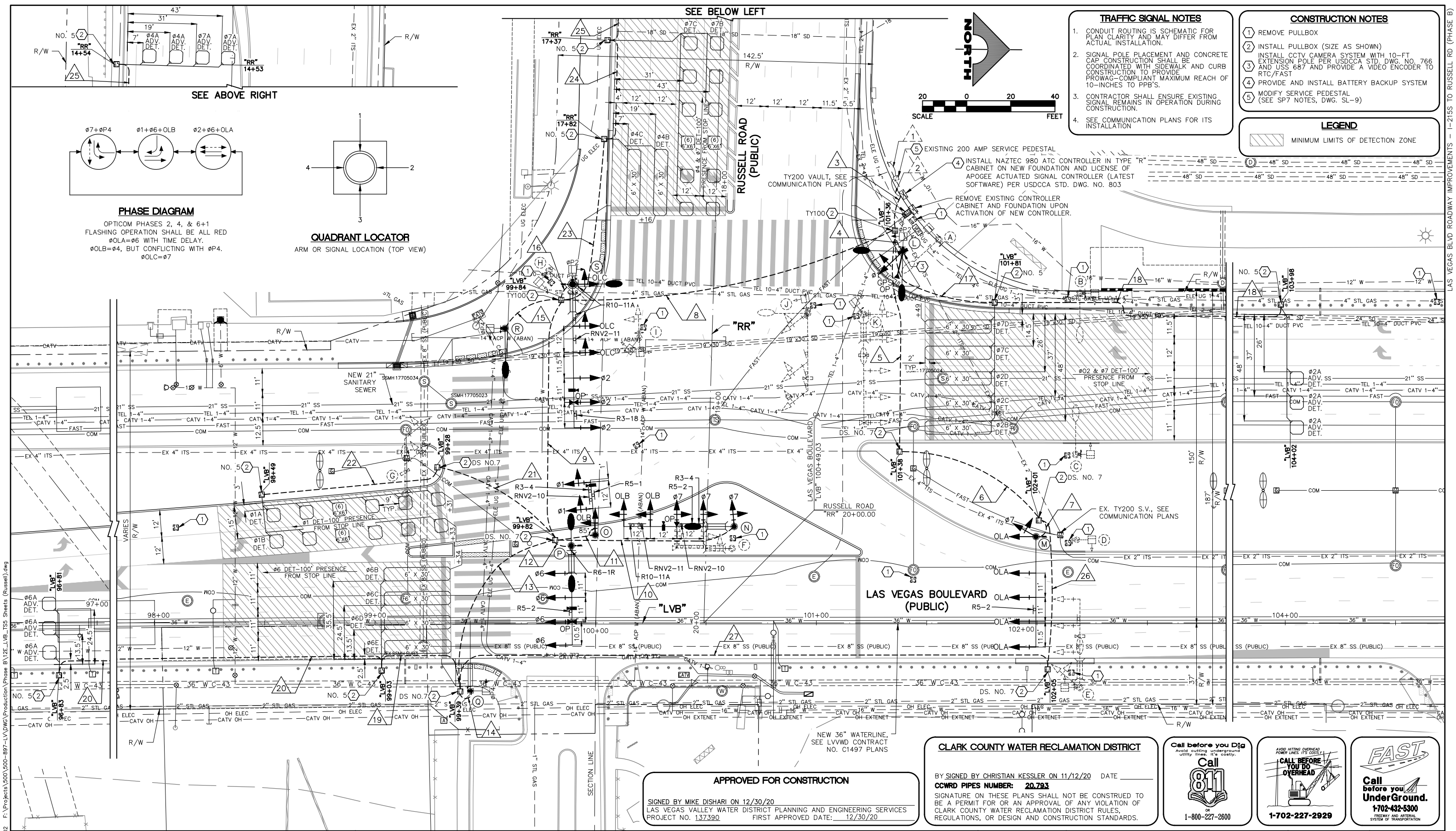


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL SCHEDULES AND DETAILS**  
**EMERGENCY SIGNAL AT FIRE STATION 11**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



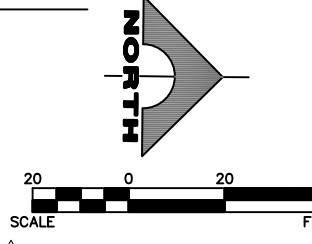
PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 F: 702.804.2299  
 gcwengineering.com

SCALE: \_\_\_\_\_  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK: \_\_\_\_\_  
 DRAWING NO. **TS-8**  
 SHT. 116 OF 159  
 L-2272



- TRAFFIC SIGNAL NOTES**
- CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
  - SIGNAL POLE PLACEMENT AND CONCRETE CAP CONSTRUCTION SHALL BE COORDINATED WITH SIDEWALK AND CURB CONSTRUCTION TO PROVIDE PROWAG-COMPLIANT MAXIMUM REACH OF 10-INCHES TO PPB'S.
  - CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
  - SEE COMMUNICATION PLANS FOR ITS INSTALLATION.

- CONSTRUCTION NOTES**
- REMOVE PULLBOX
  - INSTALL PULLBOX (SIZE AS SHOWN)
  - INSTALL CCTV CAMERA SYSTEM WITH 10-FT EXTENSION POLE PER USDOCA STD. DWG. NO. 766 AND USS 687 AND PROVIDE A VIDEO ENCODER TO RTC/FAST
  - PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
  - MODIFY SERVICE PEDESTAL (SEE SP7 NOTES, DWG. SL-9)
- LEGEND**
- MINIMUM LIMITS OF DETECTION ZONE



**APPROVED FOR CONSTRUCTION**

SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

Call before you Dig  
Avoid cutting underground utility lines. It's costly.

**Call 811**  
OR  
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

**CALL BEFORE YOU DO OVERHEAD**

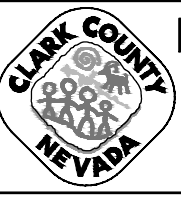
1-702-227-2929

**FAST**

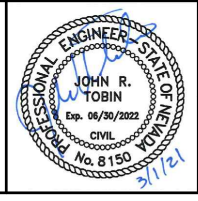
Call before you UnderGround.

1-702-432-5300  
TRENCH AND UTILITY SYSTEMS OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL MODIFICATION PLAN**  
**LAS VEGAS BOULEVARD/RUSSELL ROAD**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: JRT  
APPROVED BY: \_\_\_\_\_

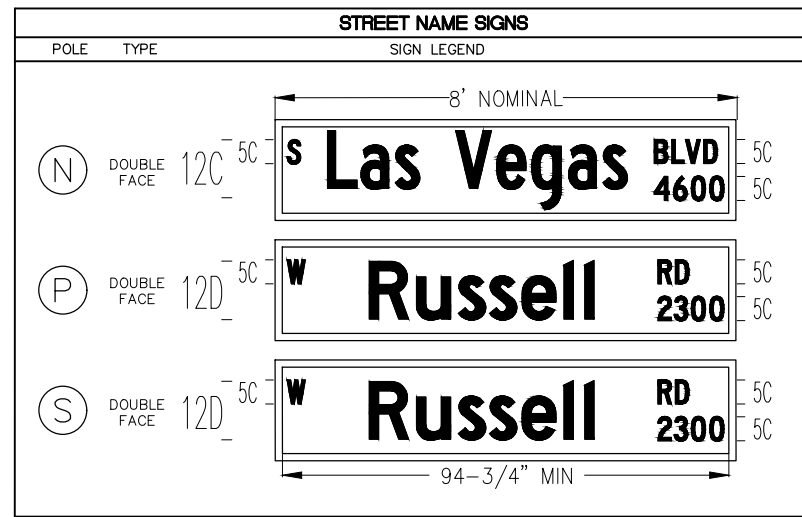
**GCV**  
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1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: \_\_\_\_\_  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK: \_\_\_\_\_

DRAWING NO. **TS-9**  
SHT. 117 OF 159  
L-2272

02-26-21 08:10:02 F:\Projects\500-897-LV\DWG\Production\Phase B\2E-LV-TS5 Sheets (Russell).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

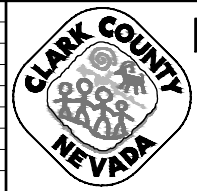


POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL ARM		LUM. ARM		TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.		TYPE (PHASE)
			QUAD.	LENGTH	QUAD.	LENGTH									
(A)	EXISTING	STLT(E)	-	-	3.5(E)	15'(E)	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE L. REMOVE FOUNDATION TO 18" BELOW GRADE.
(B)	EXISTING	STLT(E)	-	-	3(E)	15'(E)	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE R. REMOVE FOUNDATION TO 18" BELOW GRADE.
(C)	EXISTING	STLT(E)	-	-	1(E)	15'(E)	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE Q. REMOVE FOUNDATION TO 18" BELOW GRADE.
(D)	EXISTING	1-B(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE R. REMOVE FOUNDATION IN ITS ENTIRETY.
(E)	EXISTING	XX(E)	1(E)	40'(E)	1(E)	15'(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLES M AND Q. REMOVE FOUNDATION TO 18" BELOW GRADE.
(F)	EXISTING	XX(E)	4(E)	25'(E)	-	-	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE N. REMOVE FOUNDATION TO 18" BELOW GRADE. RELOCATE METRO DOME CAMERA AND APPURTENANCES TO POLE N.
(G)	EXISTING	XX(E)	1(E)	25'(E)	1(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE N. REMOVE FOUNDATION TO 18" BELOW GRADE.
(H)	EXISTING	STLT(E)	-	-	2.5(E)	15'(E)	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE S. REMOVE FOUNDATION TO 18" BELOW GRADE.
(I)	EXISTING	1-A(E)	-	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLES L, N, AND S. REMOVE FOUNDATION IN ITS ENTIRETY.
(J)	EXISTING	XX(E)	3(E)	35'(E)	4(E)	15'(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLES O AND L. REMOVE FOUNDATION TO 18" BELOW GRADE.
(K)	EXISTING	XX(E)	3(E)	50'(E)	3(E)	15'(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE S. REMOVE FOUNDATION TO 18" BELOW GRADE. RELOCATE DSRC UNIT TO POLE L.
(L)	"LVB" 101+39.2 168.3' LT	XX-A	4	-	3 4	15'	B-5T	2	W-0T	2	1(#2)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #1 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL CCTV CAMERA SYSTEM WITH 10-FOOT EXTENSION POLE WITH MATCHING POLE FINISH PER USDOCA STD. DWG. NO. 766 AND USS 687 AND PROVIDE A VIDEO ENCODER TO RTC/FAST PER USS 685. RELOCATE DSRC UNIT FROM EXISTING POLE K TO THIS POLE. INSTALL GPS PREEMPTION SYSTEM.
(M)	"LVB" 101+99.5 39.1' LT	XX-A-20'	3	50'	-	-	M-2(4) B-2T	MAST ARM 1	-	-	-	-	2	B(#7) R(#6)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #OLA DISPLAYS SHALL INCORPORATE DIRECTIONAL LOUVERS TO RESTRICT VISIBILITY FROM EASTBOUND LEFT-TURN LANE AND NORTHBOUND STOP BAR AT "LVB" 99+31. MOUNT R5-2 ON MAST ARM.
(N)	"LVB" 100+62.8 43.7' LT	XX-A	4	50'	4	15'	M-2(4) B-5T	MAST ARM 2	-	-	-	-	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. #7 AND OLB DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL PRESENCE VIDEO DETECTION CAMERA FOR #7 AND #0LB PER MANUFACTURER'S RECOMMENDATIONS. MOUNT STREET NAME SIGN PER SCHEDULE. INSTALL OPTICOM (ONE-WAY) ON MAST ARM. MOUNT RNV2-10, RNV2-11, R5-2, AND R3-4 ON MAST ARM. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE F TO THIS POLE.
(O)	"LVB" 99+99.8 39.8' LT	XX-A-20'	1	25'	-	-	M-2(2) B-5T	MAST ARM 3	-	-	-	-	-	-	NEW POLE. INSTALL POLE SO MAST ARM IS AT 85' SKEW FROM "LVB" BEARING. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. #1 AND #0LB DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL PRESENCE VIDEO DETECTION CAMERA FOR #1 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT R5-1, R3-4, AND RNV2-10 ON MAST ARM.
(P)	"LVB" 99+88.9 35.0' LT	XX-A	3	45'	1 3	15' 15'	M-2(4)	MAST ARM	-	-	-	-	2	R(#6)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. MOUNT STREET NAME SIGN PER SCHEDULE. INSTALL PRESENCE VIDEO DETECTION CAMERA FOR #6 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT R5-2 ON MAST ARM. MOUNT R6-1R ON POLE SHAFT. INSTALL OPTICOM (TWO-WAY) ON MAST ARM.
(Q)	"LVB" 99+43.6 30.8' RT	1-A	-	-	-	-	-	-	W-0T	3	4(#4)	LT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.
(R)	"LVB" 99+58.9 133.4' LT	XX-A	3	-	3	15'	-	-	W-0T	1	4(#4)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.
(S)	"LVB" 99+89.5 153.4' LT	XX-B	3	65'	2	15'	M-2(5) B-5T	MAST ARM 1	W-0T	1	1(#2)	LT	4	R(#2)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL PRESENCE VIDEO DETECTION CAMERA FOR #2 AND #7 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT STREET NAME SIGN PER SCHEDULE. INSTALL OPTICOM (TWO-WAY) ON MAST ARM. MOUNT RNV2-11 AND R3-18 ON MAST ARM. MOUNT R10-11A ON POLE SHAFT. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.

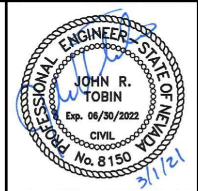
ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDCCA STD. DWG. NOS. 840 AND 841)  
 ALL POLES, MAST ARMS, TENONS, EXTENSION POLES, AND LUMINAIRES SHALL BE PAINTED FIRE GREEN (RAL 6009) METALLIC  
 ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9935 S. JONES BLVD.  
 (E) = EXISTING  
 B = BLUE  
 R = RED

02-26-21 08:10:13 F:\Projects\500-897-LV\DWG\Production\Phase B\2E\_LVB\_TS5 Sheets (Russell).dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL SCHEDULES AND DETAILS**  
**LAS VEGAS BOULEVARD/RUSSELL ROAD**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV**  
 ENGINEERS & SURVEYORS

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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	TS-10
VERT: NONE	SHT. 118 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

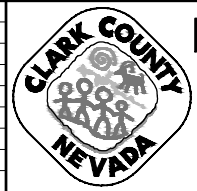


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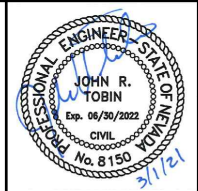
			CONDUIT AND WIRE SCHEDULE																											
WIRE & CABLE	FROM	TO	VIA CONDUIT																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
EXISTING	NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)	X																											
4-#4 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	CONTROLLER		X																										
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE	CONTROLLER	POLE L			X	X																								
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 BELDEN 8281 COAXIAL CABLE	CONTROLLER	POLE M			X		X	X																						
25 CONDUCTOR #14 SIG. CABLE OPTICOM M-138 CABLE 3-#10 AWG. THW-2 OR XHHW-2 BELDEN 8281 COAXIAL CABLE	CONTROLLER	POLE N			X				X	X																				
25 CONDUCTOR #14 SIG. CABLE 3-#10 AWG. THW-2 OR XHHW-2 BELDEN 8281 COAXIAL CABLE	CONTROLLER	POLE O			X				X	X																				
25 CONDUCTOR #14 SIG. CABLE OPTICOM M-138 CABLE 3-#10 AWG. THW-2 OR XHHW-2 BELDEN 8281 COAXIAL CABLE	CONTROLLER	POLE P			X				X	X																				
25 CONDUCTOR #14 SIG. CABLE	CONTROLLER	POLE Q			X				X	X																				
25 CONDUCTOR #14 SIG. CABLE	CONTROLLER	POLE R			X				X	X																				
25 CONDUCTOR #14 SIG. CABLE OPTICOM M-138 CABLE 3-#10 AWG. THW-2 OR XHHW-2 BELDEN 8281 COAXIAL CABLE	CONTROLLER	POLE S			X				X	X																				
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE L LUMINAIRES		X	X	X																								
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE N LUMINAIRES		X	X	X																								
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE P LUMINAIRES		X	X	X																								
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE R LUMINAIRES		X	X	X																								
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE S LUMINAIRES		X	X	X																								
5-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET #2B, #2C, #2D, #7C, #7D		X	X	X																								
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER	DET #2A		X	X	X																								
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET #6B #6C, #6D, #6E		X	X	X																								
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER	DET #6A		X	X	X																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET #1A, #1B		X	X	X																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET #4B, #4C		X	X	X																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET #7B, #7C		X	X	X																								
2-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER	DET #4A, #7A		X	X	X																								
CONDUIT SIZE (E) EXISTING			(E)	2-2"	6-3"	1-3"	2-3"	2-3"	1-3"	6-3"	4-3"	1-3"	1-3"	1-3"	3-3"	1-2"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	2-3"	2-3"

1. ALL EXISTING CONDUIT TO BE ABANDONED & ALL EXISTING CONDUCTORS TO BE REMOVED FOLLOWING INSTALLATION OF NEW CONDUIT AND WIRE.
2. A NO. 8 GROUNDING WIRE SHALL BE RAN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.
3. CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDCCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**TRAFFIC SIGNAL SCHEDULES AND DETAILS**  
**LAS VEGAS BOULEVARD/RUSSELL ROAD**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

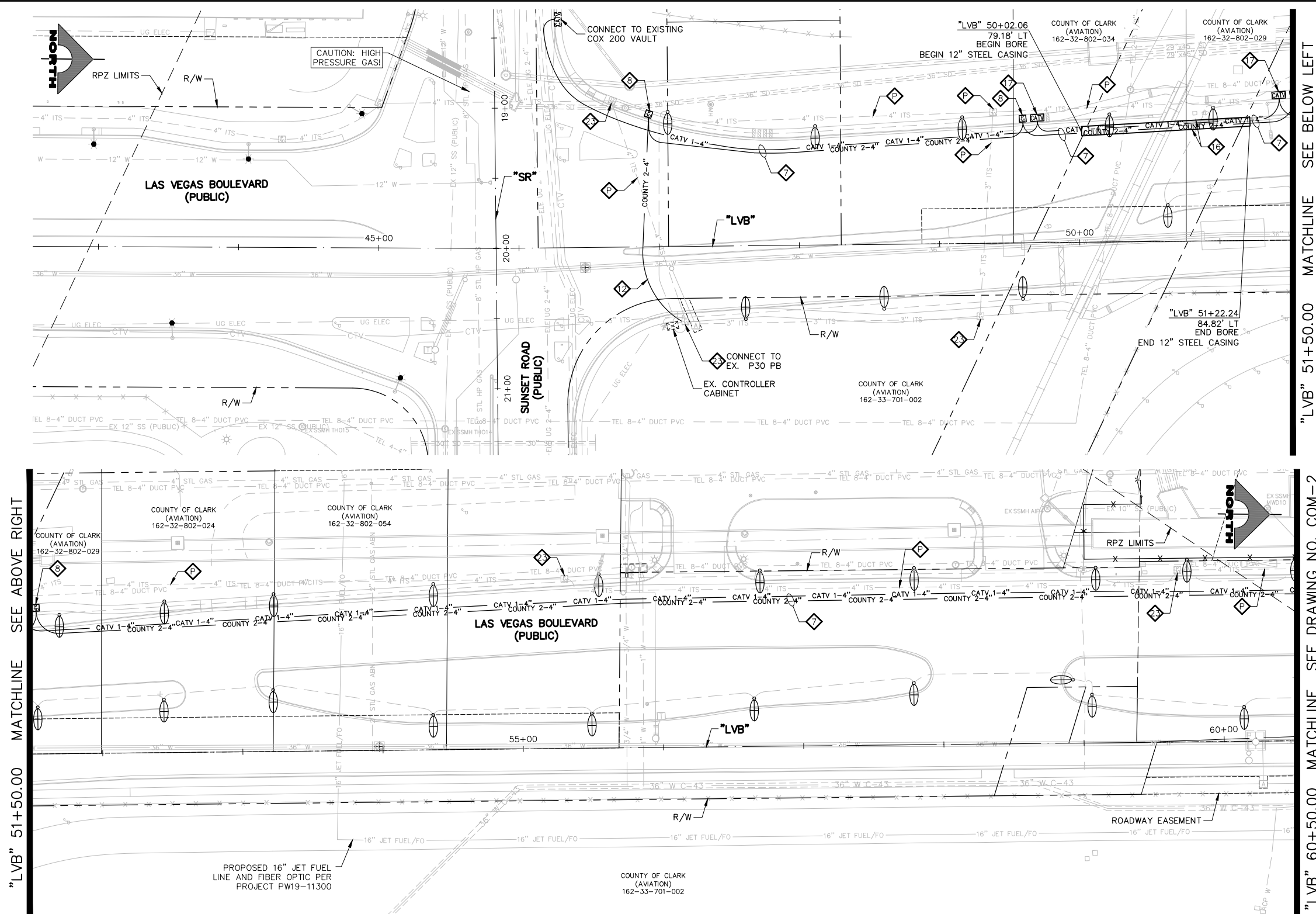
**GCV**  
 ENGINEERS SURVEYORS

1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TS-11</b>
VERT: NONE	SHT. 119 OF 159
FIELD BOOK	L-2272

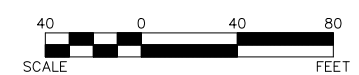
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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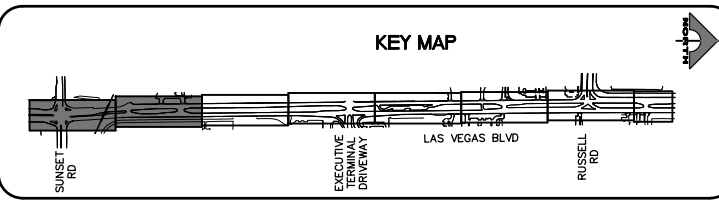
"LVB" 51+50.00 MATCHLINE SEE ABOVE RIGHT  
"LVB" 51+50.00 MATCHLINE SEE BELOW LEFT  
"LVB" 60+50.00 MATCHLINE SEE DRAWING NO. COM-2

- COMMUNICATION NOTES**
1. INSTALL MAIN COMMUNICATION BANK 'A'. (SEE DETAIL 1, DRAWING CDT-1.)
  2. INSTALL MAIN COMMUNICATION BANK 'B'. (SEE DETAIL 1, DRAWING CDT-2.)
  3. INSTALL PRIMARY COMMUNICATION LATERAL. (SEE DETAIL 2, DRAWING CDT-2.)
  4. INSTALL SECONDARY COMMUNICATION LATERAL. (SEE DETAIL 3, DRAWING CDT-2.)
  5. INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE. (SEE DRAWING CDT-4.)
  6. INSTALL COUNTY/F.A.S.T./COX/VERIZON DUCT BANK. (SEE DETAIL 1, DRAWING CDT-3.)
  7. INSTALL COUNTY/COX DUCT BANK. (SEE DETAIL 2, DRAWING CDT-3.)
  8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  10. INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5.)
  11. INSTALL COUNTY/F.A.S.T. LATERAL. (SEE DETAIL 3, DRAWING CDT-3.)
  12. INSTALL COUNTY DUCT BANK. (SEE DETAIL 4, DRAWING CDT-3.)
  13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX).
  14. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX).
  15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON).
  16. INSTALL COUNTY/COX DUCT IN 12-INCH STEEL CASING. (SEE DETAIL, DRAWING CDT-8.)
  17. INSTALL TYPE 200 VAULT (CATV) (COX).
  18. INSTALL TYPE 400 VAULT (CATV) (COX).
  19. INSTALL TYPE 510 MANHOLE (CATV). (SEE DETAIL 2, DRAWING CDT-7.)
  20. INSTALL 2'X3'X2' HAND HOLE (VERIZON). (SEE DETAIL 1, DRAWING CDT-7.)
  21. INSTALL 4'X4'X4' MANHOLE (VERIZON). (SEE DETAIL DRAWING CDT-6.)
  22. INSTALL (1) 4-INCH PVC FIBER CONDUIT (EXTENET).
  23. ADJUST/REPLACE EXISTING PULL BOX.
  24. STUB AND CAP CONDUIT. (SEE DETAIL 4, DRAWING CDT-2.)
  25. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES.
- NOTES**
1. SEE MANHOLE TABLES ON DRAWINGS COM-4 AND COM-6 FOR MANHOLE LOCATIONS.



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

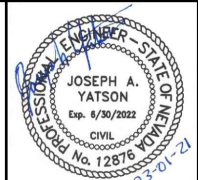
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**COMMUNICATION PLAN**  
"LVB" 42+50.00 TO "LVB" 60+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



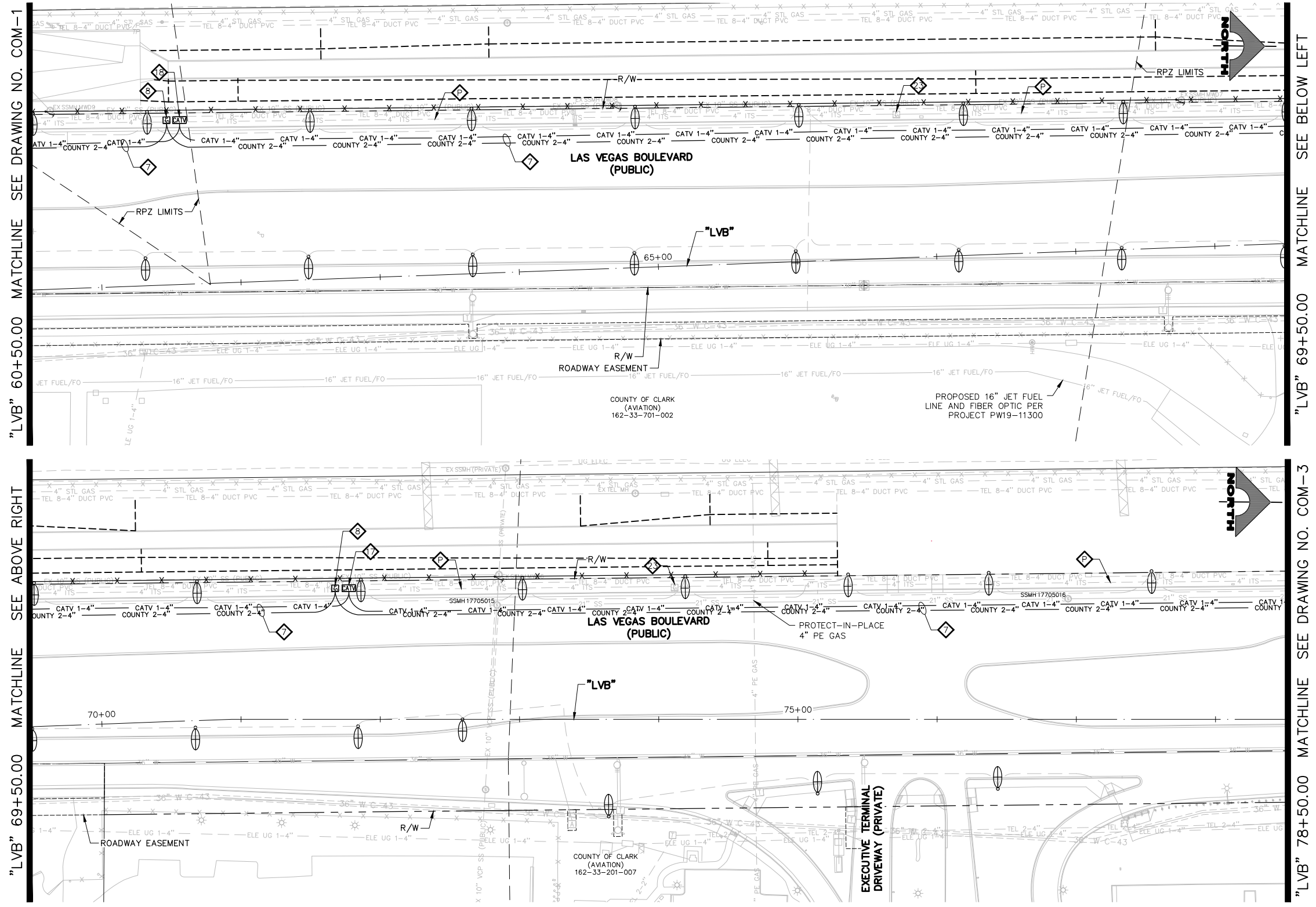
PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	COM-1
VERT: NONE	SHT. 120 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

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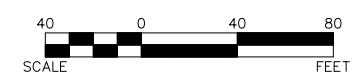
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MATCHLINE SEE BELOW LEFT

"LVB" 69+50.00 MATCHLINE SEE ABOVE RIGHT

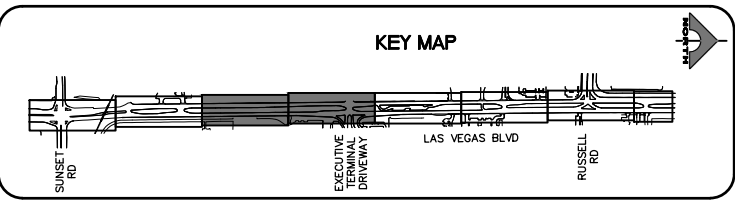
MATCHLINE SEE DRAWING NO. COM-3

- COMMUNICATION NOTES**
1. INSTALL MAIN COMMUNICATION BANK 'A'. (SEE DETAIL 1, DRAWING CDT-1.)
  2. INSTALL MAIN COMMUNICATION BANK 'B'. (SEE DETAIL 1, DRAWING CDT-2.)
  3. INSTALL PRIMARY COMMUNICATION LATERAL. (SEE DETAIL 2, DRAWING CDT-2.)
  4. INSTALL SECONDARY COMMUNICATION LATERAL. (SEE DETAIL 3, DRAWING CDT-2.)
  5. INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE. (SEE DETAIL 3, DRAWING CDT-4.)
  6. INSTALL COUNTY/F.A.S.T./COX/VERIZON DUCT BANK. (SEE DETAIL 1, DRAWING CDT-3.)
  7. INSTALL COUNTY/COX DUCT BANK. (SEE DETAIL 2, DRAWING CDT-3.)
  8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  10. INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-4.)
  11. INSTALL COUNTY/F.A.S.T. LATERAL. (SEE DETAIL 3, DRAWING CDT-3.)
  12. INSTALL COUNTY DUCT BANK. (SEE DETAIL 4, DRAWING CDT-3.)
  13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX).
  14. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX).
  15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON).
  16. INSTALL COUNTY/COX DUCT IN 12-INCH STEEL CASING. (SEE DETAIL, DRAWING CDT-8.)
  17. INSTALL TYPE 200 VAULT (CATV) (COX).
  18. INSTALL TYPE 400 VAULT (CATV) (COX).
  19. INSTALL TYPE 510 MANHOLE (CATV). (SEE DETAIL 2, DRAWING CDT-7.)
  20. INSTALL 2'X3'X2' HAND HOLE (VERIZON). (SEE DETAIL 1, DRAWING CDT-7.)
  21. INSTALL 4'X4'X4' MANHOLE (VERIZON). (SEE DETAIL DRAWING CDT-6.)
  22. INSTALL (1) 4-INCH PVC FIBER CONDUIT (EXTENET).
  23. ADJUST/REPLACE EXISTING PULL BOX.
  24. STUB AND CAP CONDUIT. (SEE DETAIL 4, DRAWING CDT-2.)
  25. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES.
- NOTES**
1. SEE MANHOLE TABLES ON DRAWINGS COM-4 AND COM-6 FOR MANHOLE LOCATIONS.



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

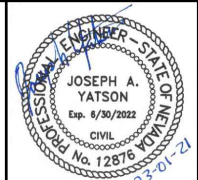
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**COMMUNICATION PLAN**  
"LVB" 60+50.00 TO "LVB" 78+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>COM-2</b>
VERT: NONE	SHT. 121 OF 159
FIELD BOOK	L-2272

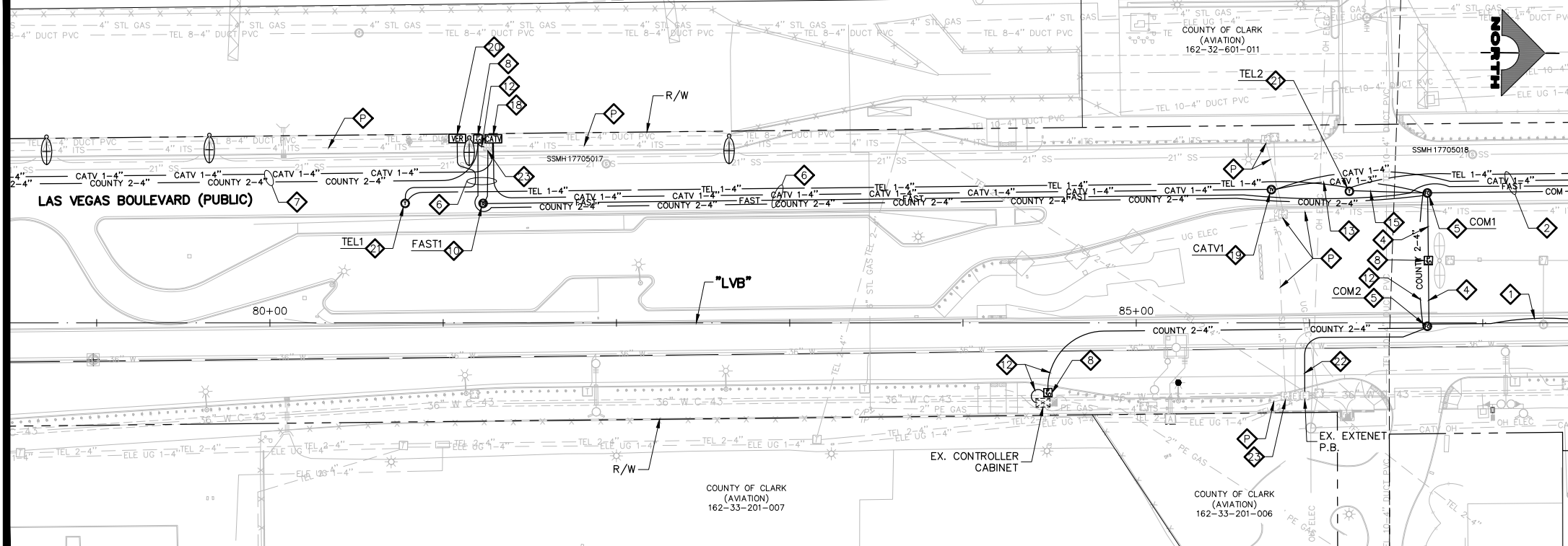
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



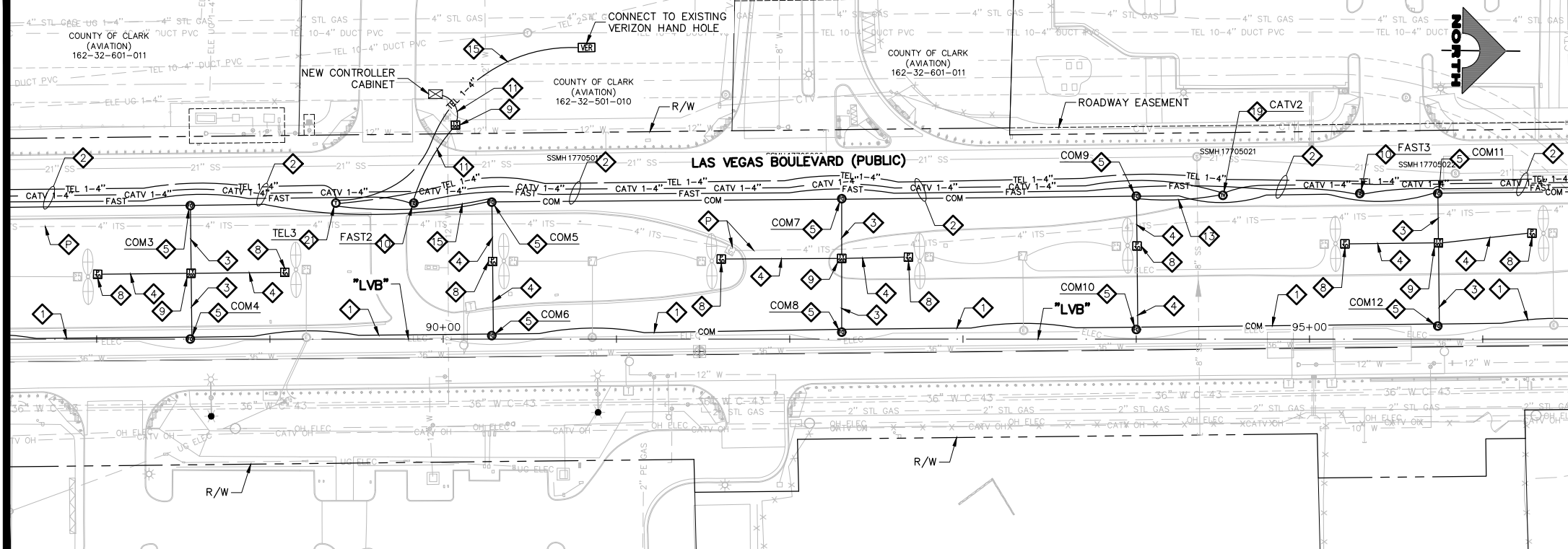
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"LVB" 78+50.00 MATCHLINE SEE DRAWING NO. COM-2



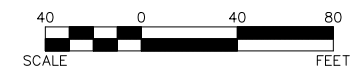
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SEE ABOVE RIGHT "LVB" 87+50.00 MATCHLINE



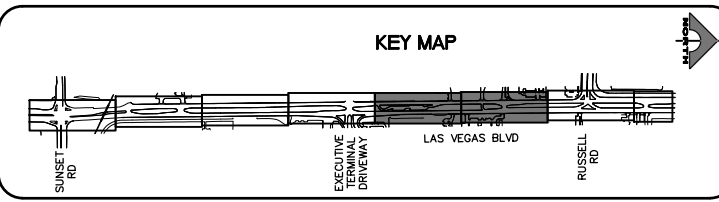
MATCHLINE SEE DRAWING NO. COM-4 "LVB" 96+50.00

- COMMUNICATION NOTES**
1. INSTALL MAIN COMMUNICATION BANK 'A'. (SEE DETAIL 1, DRAWING CDT-1.)
  2. INSTALL MAIN COMMUNICATION BANK 'B'. (SEE DETAIL 1, DRAWING CDT-2.)
  3. INSTALL PRIMARY COMMUNICATION LATERAL. (SEE DETAIL 2, DRAWING CDT-2.)
  4. INSTALL SECONDARY COMMUNICATION LATERAL. (SEE DETAIL 3, DRAWING CDT-2.)
  5. INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE. (SEE DRAWING CDT-4.)
  6. INSTALL COUNTY/F.A.S.T./COX/VERIZON DUCT BANK. (SEE DETAIL 1, DRAWING CDT-3.)
  7. INSTALL COUNTY/COX DUCT BANK. (SEE DETAIL 2, DRAWING CDT-3.)
  8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  10. INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5.)
  11. INSTALL COUNTY/F.A.S.T. LATERAL. (SEE DETAIL 3, DRAWING CDT-3.)
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  13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX).
  14. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX).
  15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON).
  16. INSTALL COUNTY/COX DUCT IN 12-INCH STEEL CASING. (SEE DETAIL, DRAWING CDT-8.)
  17. INSTALL TYPE 200 VAULT (CATV) (COX).
  18. INSTALL TYPE 400 VAULT (CATV) (COX).
  19. INSTALL TYPE 510 MANHOLE (CATV). (SEE DETAIL 2, DRAWING CDT-7.)
  20. INSTALL 2'X3'X2' HAND HOLE (VERIZON). (SEE DETAIL 1, DRAWING CDT-7.)
  21. INSTALL 4'X4' MANHOLE (VERIZON). (SEE DETAIL DRAWING CDT-6.)
  22. INSTALL (1) 4-INCH PVC FIBER CONDUIT (EXTENET).
  23. ADJUST/REPLACE EXISTING PULL BOX.
  24. STUB AND CAP CONDUIT. (SEE DETAIL 4, DRAWING CDT-2.)
  25. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES.
- NOTES**
1. SEE MANHOLE TABLES ON DRAWINGS COM-4 AND COM-6 FOR MANHOLE LOCATIONS.



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

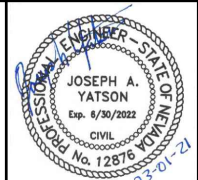
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**COMMUNICATION PLAN**  
"LVB" 78+50.00 TO "LVB" 96+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

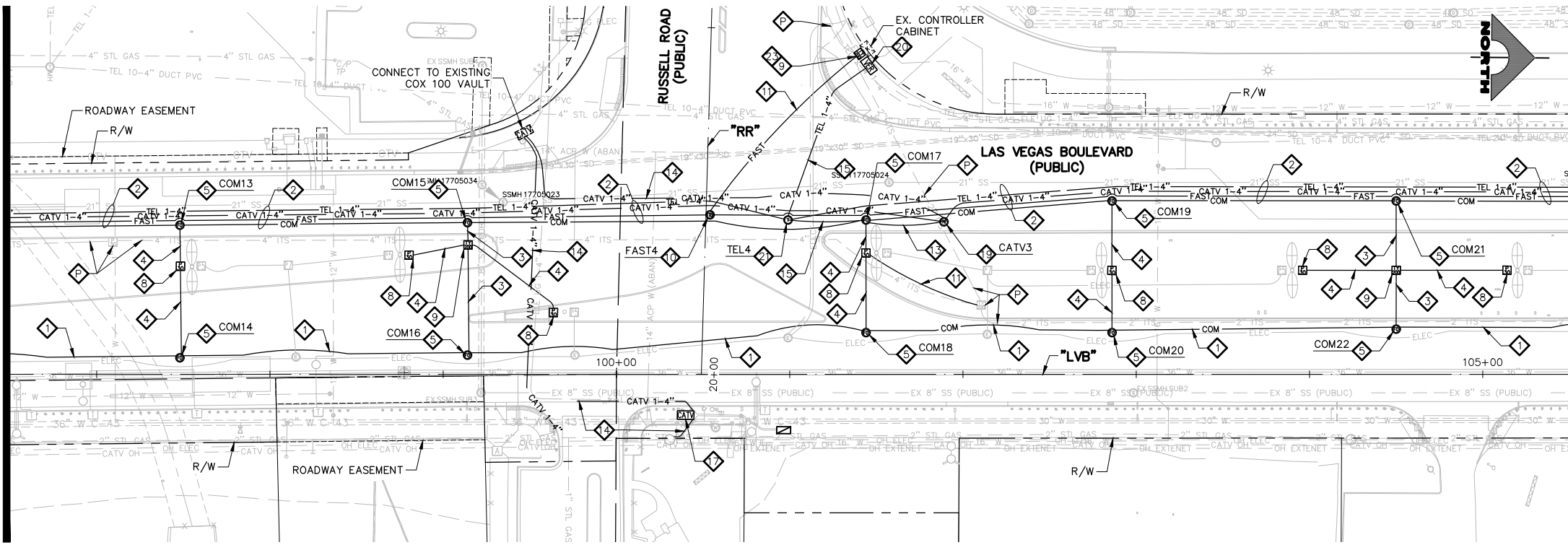
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>COM-3</b>
VERT: NONE	SHT. 122 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

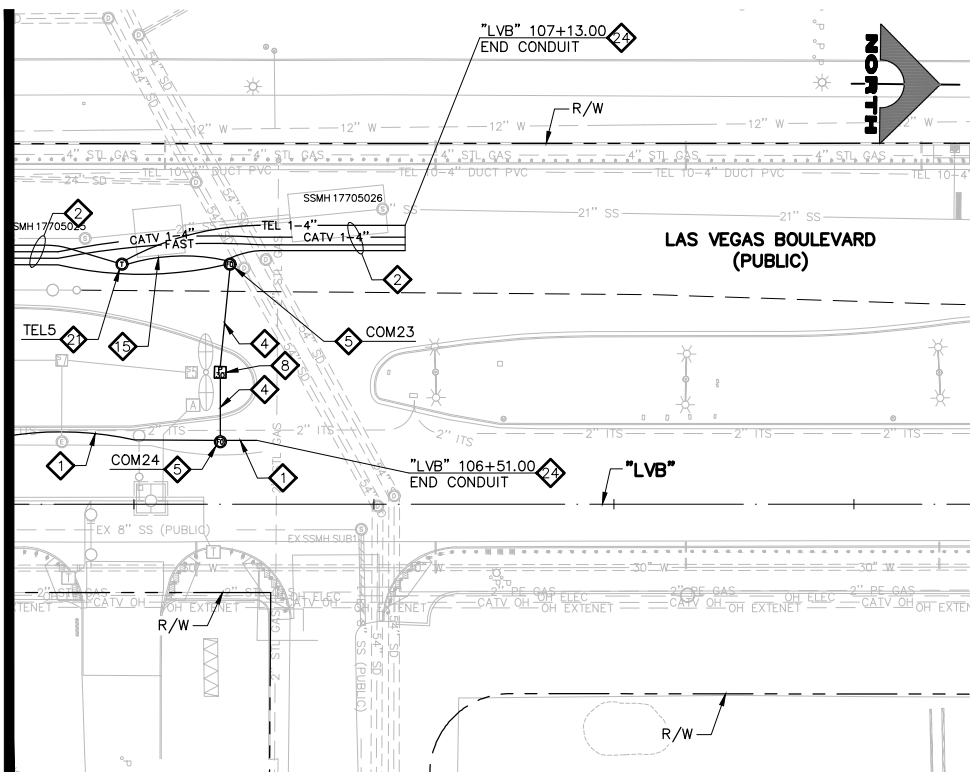
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"LVB" 96+50.00 MATCHLINE SEE DRAWING NO. COM-3



"LVB" 105+50.00 MATCHLINE SEE BELOW LEFT

"LVB" 105+50.00 MATCHLINE SEE ABOVE RIGHT



TRAFFIC RATED COMMUNICATION MANHOLE TABLE	
ID	STATION & OFFSET
COM1	"LVB" 86+68.00, 75.00 LT
COM2	"LVB" 86+68.00, 2.00 RT
COM3	"LVB" 88+54.00, 77.00 LT
COM4	"LVB" 88+54.00, 0.00
COM5	"LVB" 90+28.00, 79.00 LT
COM6	"LVB" 90+28.00, 2.00 LT
COM7	"LVB" 92+30.00, 81.00 LT
COM8	"LVB" 92+30.00, 4.00 LT
COM9	"LVB" 94+00.00, 82.50 LT
COM10	"LVB" 94+00.00, 5.50 LT
COM11	"LVB" 95+74.00, 84.00 LT
COM12	"LVB" 95+74.00, 7.50 LT
COM13	"LVB" 97+48.00, 86.00 LT
COM14	"LVB" 97+48.00, 9.50 LT
COM15	"LVB" 99+14.00, 87.50 LT
COM16	"LVB" 99+14.00, 11.00 LT
COM17	"LVB" 101+44.00, 89.00 LT
COM18	"LVB" 101+44.00, 24.00 LT
COM19	"LVB" 102+86.00, 100.00 LT
COM20	"LVB" 102+86.00, 24.00 LT
COM21	"LVB" 104+50.00, 100.00 LT
COM22	"LVB" 104+50.00, 26.00 LT
COM23	"LVB" 106+40.00, 100.00 LT
COM24	"LVB" 106+36.00, 26.00 LT

TRAFFIC RATED F.A.S.T. MANHOLE TABLE	
ID	STATION & OFFSET
FAST1	"LVB" 81+23.00, 69.00 LT
FAST2	"LVB" 89+83.00, 78.50 LT
FAST3	"LVB" 95+29.00, 84.00 LT
FAST4	"LVB" 100+54.00, 92.00 LT

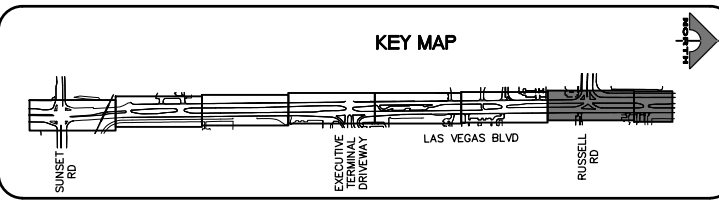
TYPE 510 CATV MANHOLE TABLE	
ID	STATION & OFFSET
CATV1	"LVB" 85+78.00, 77.00 LT
CATV2	"LVB" 94+50.00, 83.00 LT
CATV3	"LVB" 101+89.00, 88.00 LT

VERIZON MANHOLE TABLE	
ID	STATION & OFFSET
TEL1	"LVB" 80+78.00, 69.00 LT
TEL2	"LVB" 86+23.00, 76.00 LT
TEL3	"LVB" 89+38.00, 78.50 LT
TEL4	"LVB" 100+99.00, 89.00 LT
TEL5	"LVB" 105+95.00, 100.00 LT

- COMMUNICATION NOTES**
1. INSTALL MAIN COMMUNICATION BANK 'A'. (SEE DETAIL 1, DRAWING CDT-1.)
  2. INSTALL MAIN COMMUNICATION BANK 'B'. (SEE DETAIL 1, DRAWING CDT-2.)
  3. INSTALL PRIMARY COMMUNICATION LATERAL. (SEE DETAIL 2, DRAWING CDT-2.)
  4. INSTALL SECONDARY COMMUNICATION LATERAL. (SEE DETAIL 3, DRAWING CDT-2.)
  5. INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE. (SEE DRAWING CDT-4.)
  6. INSTALL COUNTY/F.A.S.T./COX/VERIZON DUCT BANK. (SEE DETAIL 1, DRAWING CDT-3.)
  7. INSTALL COUNTY/COX DUCT BANK. (SEE DETAIL 2, DRAWING CDT-3.)
  8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
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  11. INSTALL COUNTY/F.A.S.T. LATERAL. (SEE DETAIL 3, DRAWING CDT-3.)
  12. INSTALL COUNTY DUCT BANK. (SEE DETAIL 4, DRAWING CDT-3.)
  13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX).
  14. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX).
  15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON).
  16. INSTALL COUNTY/COX DUCT IN 12-INCH STEEL CASING. (SEE DETAIL, DRAWING CDT-8.)
  17. INSTALL TYPE 200 VAULT (CATV) (COX).
  18. INSTALL TYPE 400 VAULT (CATV) (COX).
  19. INSTALL TYPE 510 MANHOLE (CATV). (SEE DETAIL 2, DRAWING CDT-7.)
  20. INSTALL 2'X3'X2' HAND HOLE (VERIZON). (SEE DETAIL 1, DRAWING CDT-7.)
  21. INSTALL 4'X4'X4' MANHOLE (VERIZON). (SEE DETAIL DRAWING CDT-6.)
  22. INSTALL (1) 4-INCH PVC FIBER CONDUIT (EXTENET).
  23. ADJUST/REPLACE EXISTING PULL BOX.
  24. STUB AND CAP CONDUIT. (SEE DETAIL 4, DRAWING CDT-2.)
  25. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES.
- NOTES**
1. SEE MANHOLE TABLES ON DRAWINGS COM-4 AND COM-6 FOR MANHOLE LOCATIONS.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

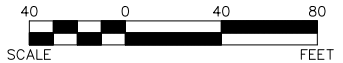
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



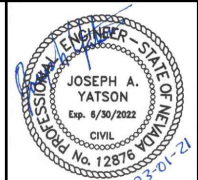
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**Call before you Dig**  
 1-702-227-2929

Call before you Dig  
 1-800-227-2600



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**COMMUNICATION PLAN**  
 "LVB" 96+50.00 TO "LVB" 109+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

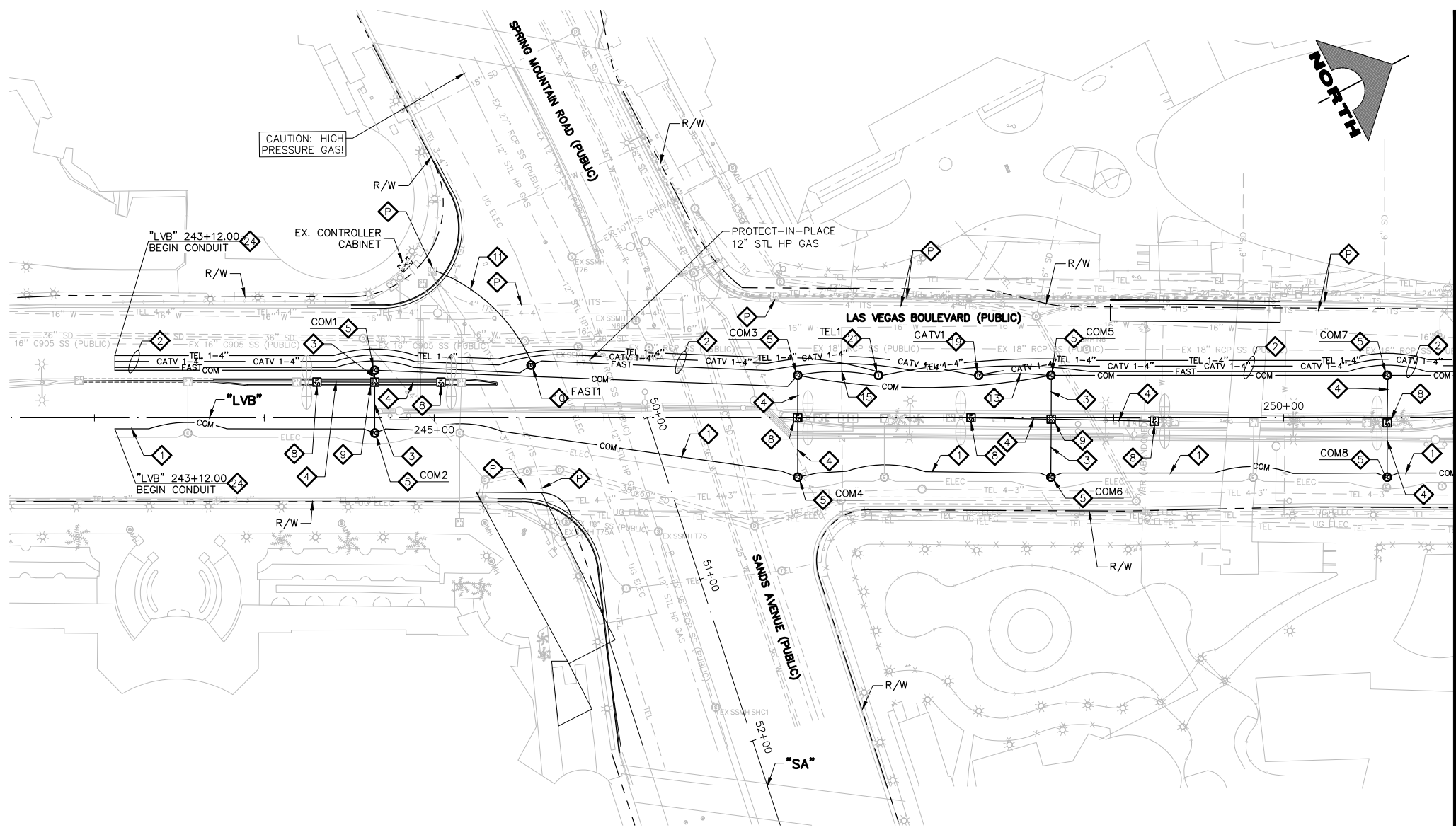
SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
 DRAWING NO. **COM-4**  
 SH. 123 OF 159  
 L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



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 dhines

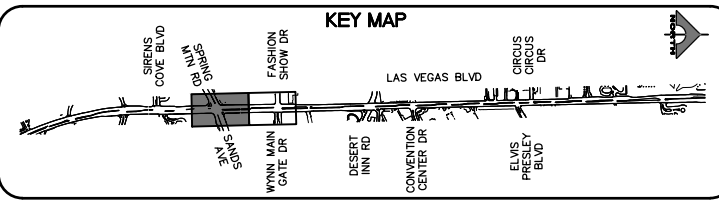


"LVB" 251+00.00 MATCHLINE SEE DRAWING NO. COM-6

- COMMUNICATION NOTES**
- 1 INSTALL MAIN COMMUNICATION BANK 'A'. (SEE DETAIL 1, DRAWING CDT-1.)
  - 2 INSTALL MAIN COMMUNICATION BANK 'B'. (SEE DETAIL 1, DRAWING CDT-2.)
  - 3 INSTALL PRIMARY COMMUNICATION LATERAL. (SEE DETAIL 2, DRAWING CDT-2.)
  - 4 INSTALL SECONDARY COMMUNICATION LATERAL. (SEE DETAIL 3, DRAWING CDT-2.)
  - 5 INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE. (SEE DRAWING CDT-4.)
  - 6 INSTALL COUNTY/F.A.S.T./COX/VERIZON DUCT BANK. (SEE DETAIL 1, DRAWING CDT-3.)
  - 7 INSTALL COUNTY/COX DUCT BANK. (SEE DETAIL 2, DRAWING CDT-3.)
  - 8 INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  - 9 INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  - 10 INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5.)
  - 11 INSTALL COUNTY/F.A.S.T. LATERAL. (SEE DETAIL 3, DRAWING CDT-3.)
  - 12 INSTALL COUNTY DUCT BANK. (SEE DETAIL 4, DRAWING CDT-3.)
  - 13 INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX).
  - 14 INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX).
  - 15 INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON).
  - 16 INSTALL COUNTY/COX DUCT IN 12-INCH STEEL CASING. (SEE DETAIL, DRAWING CDT-8.)
  - 17 INSTALL TYPE 200 VAULT (CATV) (COX).
  - 18 INSTALL TYPE 400 VAULT (CATV) (COX).
  - 19 INSTALL TYPE 510 MANHOLE (CATV). (SEE DETAIL 2, DRAWING CDT-7.)
  - 20 INSTALL 2'X3'X2' HAND HOLE (VERIZON). (SEE DETAIL 1, DRAWING CDT-7.)
  - 21 INSTALL 4'X4'X4' MANHOLE (VERIZON). (SEE DETAIL DRAWING CDT-6.)
  - 22 INSTALL (1) 4-INCH PVC FIBER CONDUIT (EXTENET).
  - 23 ADJUST/REPLACE EXISTING PULL BOX.
  - 24 STUB AND CAP CONDUIT. (SEE DETAIL 4, DRAWING CDT-2.)
  - P PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES.
- NOTES**
1. SEE MANHOLE TABLES ON DRAWINGS COM-4 AND COM-6 FOR MANHOLE LOCATIONS.

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.



**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**

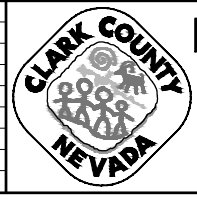
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



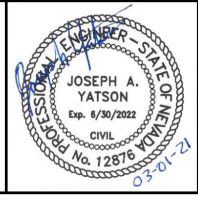
**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**COMMUNICATION PLAN**  
 "LVB" 242+50.00 TO "LVB" 251+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

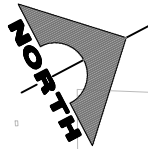
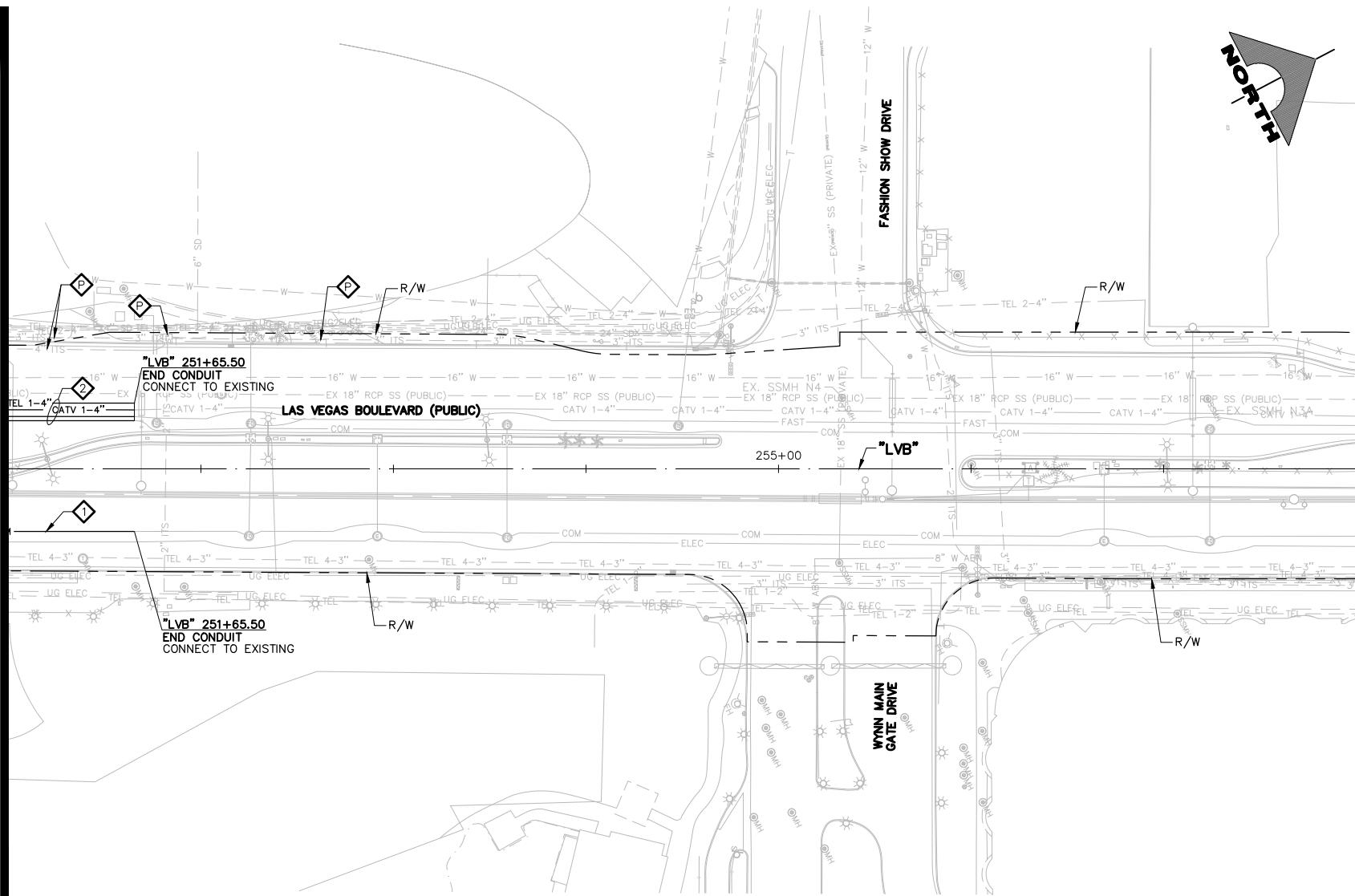
SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **COM-5**  
 SH. 124 OF 159  
 L-2272

BID NO.: 605718-20



"LVB" 251+00.00 MATCHLINE SEE DRAWING NO. COM-5



- COMMUNICATION NOTES**
1. INSTALL MAIN COMMUNICATION BANK 'A'. (SEE DETAIL 1, DRAWING CDT-1.)
  2. INSTALL MAIN COMMUNICATION BANK 'B'. (SEE DETAIL 1, DRAWING CDT-2.)
  3. INSTALL PRIMARY COMMUNICATION LATERAL. (SEE DETAIL 2, DRAWING CDT-2.)
  4. INSTALL SECONDARY COMMUNICATION LATERAL. (SEE DETAIL 3, DRAWING CDT-2.)
  5. INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE. (SEE DRAWING CDT-4.)
  6. INSTALL COUNTY/F.A.S.T./COX/VERIZON DUCT BANK. (SEE DETAIL 1, DRAWING CDT-3.)
  7. INSTALL COUNTY/COX DUCT BANK. (SEE DETAIL 2, DRAWING CDT-3.)
  8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  10. INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5.)
  11. INSTALL COUNTY/F.A.S.T. LATERAL. (SEE DETAIL 3, DRAWING CDT-3.)
  12. INSTALL COUNTY DUCT BANK. (SEE DETAIL 4, DRAWING CDT-3.)
  13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX).
  14. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX).
  15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON).
  16. INSTALL COUNTY/COX DUCT IN 12-INCH STEEL CASING. (SEE DETAIL, DRAWING CDT-8.)
  17. INSTALL TYPE 200 VAULT (CATV) (COX).
  18. INSTALL TYPE 400 VAULT (CATV) (COX).
  19. INSTALL TYPE 510 MANHOLE (CATV). (SEE DETAIL 2, DRAWING CDT-7.)
  20. INSTALL 2'X3'X2' HAND HOLE (VERIZON). (SEE DETAIL 1, DRAWING CDT-7.)
  21. INSTALL 4'X4'X4' MANHOLE (VERIZON). (SEE DETAIL DRAWING CDT-6.)
  22. INSTALL (1) 4-INCH PVC FIBER CONDUIT (EXTENET).
  23. ADJUST/REPLACE EXISTING PULL BOX.
  24. STUB AND CAP CONDUIT. (SEE DETAIL 4, DRAWING CDT-2.)
  25. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES.
- NOTES**
1. SEE MANHOLE TABLES ON DRAWINGS COM-4 AND COM-6 FOR MANHOLE LOCATIONS.

**TRAFFIC RATED COMMUNICATION MANHOLE TABLE**

ID	STATION & OFFSET
COM1	"LVB" 244+65.00, 28.00 LT
COM2	"LVB" 244+65.00, 9.00 RT
COM3	"LVB" 247+14.00, 25.00 LT
COM4	"LVB" 247+14.00, 35.00 RT
COM5	"LVB" 248+63.00, 25.00 LT
COM6	"LVB" 248+63.00, 35.00 RT
COM7	"LVB" 250+61.00, 25.00 LT
COM8	"LVB" 250+61.00, 35.00 RT

**TRAFFIC RATED F.A.S.T. MANHOLE TABLE**

ID	STATION & OFFSET
FAST1	"LVB" 245+57.00, 31.00 LT

**TYPE 510 CATV MANHOLE TABLE**

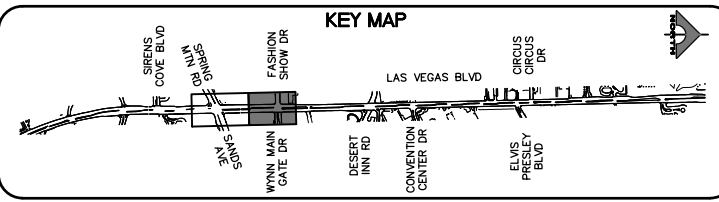
ID	STATION & OFFSET
CATV1	"LVB" 248+20.50, 25.00 LT

**VERIZON MANHOLE TABLE**

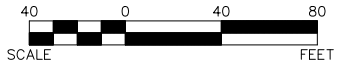
ID	STATION & OFFSET
TEL1	"LVB" 247+61.50, 25.00 LT

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

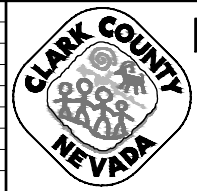


**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

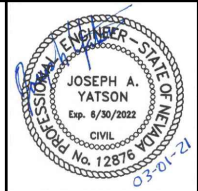


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REV. NO.	DATE	DESCRIPTION	APPROVED



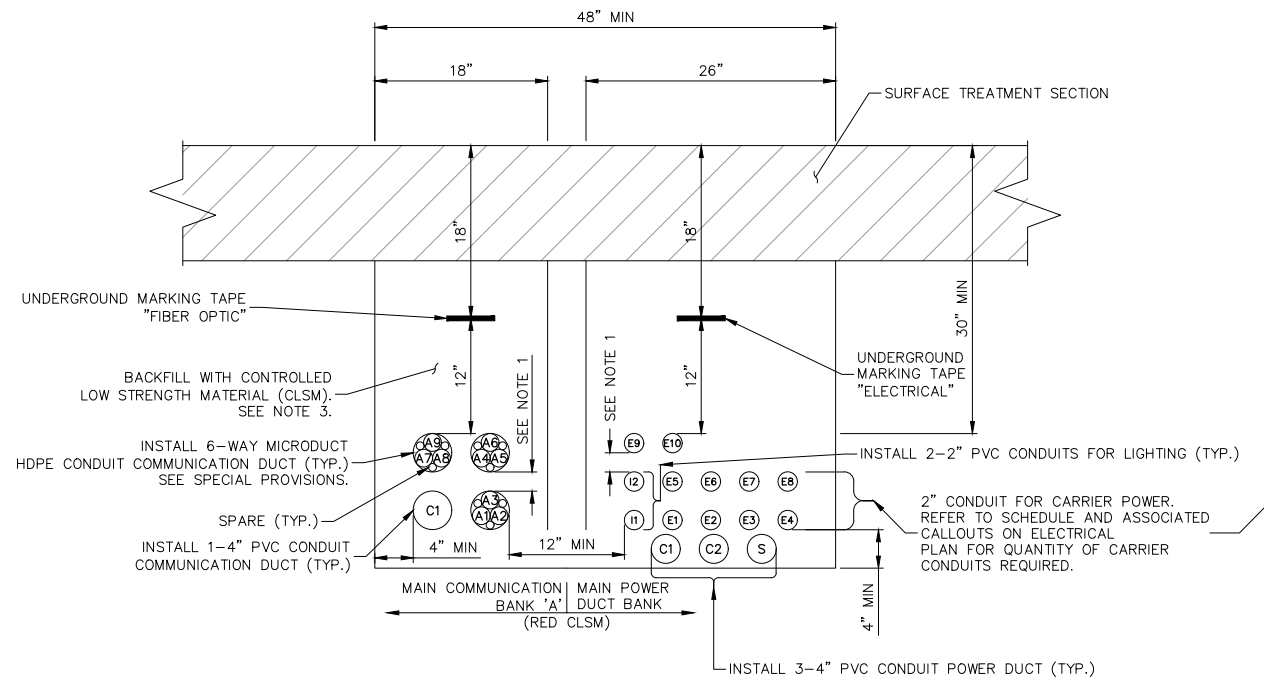
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**COMMUNICATION PLAN**  
"LVB" 251+00.00 TO "LVB" 258+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>COM-6</b>
VERT: NONE	SHT. 125 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

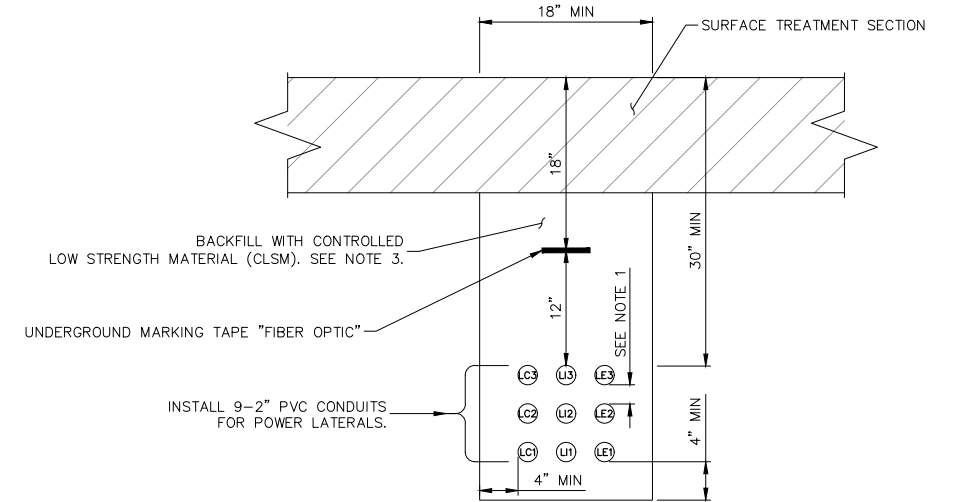


CARRIER ELECTRICAL CONDUIT SCHEDULE	
NOTE	# OF CONDUITS
②	(2) E1-E2
③	(3) E1-E3
④	(4) E1-E4
⑤	(5) E1-E5
⑥	(6) E1-E6
⑦	(7) E1-E7
⑧	(8) E1-E8
⑨	(9) E1-E9
⑩	(10) E1-E10

COMMUNICATION MICROCONDUIT COLOR DESIGNATION			
	OUTER SHEATH	INNER CONDUIT	DESIGNEE
A1	ORANGE	RED	VERIZON
A2	ORANGE	GREEN	LV. NET
A3	ORANGE	BLUE	COX
A4	ORANGE	YELLOW	ZAYO
A5	ORANGE	ORANGE	AT&T
A6	ORANGE	BROWN	EXTENET
A7	ORANGE	WHITE	MOBILITIE
A8	ORANGE	GREY	CROWN
A9	ORANGE	BLACK	FUTURE
P1	GREY	BLUE	COUNTY
P2	GREY	GREEN	COUNTY
P3	GREY	ORANGE	COUNTY

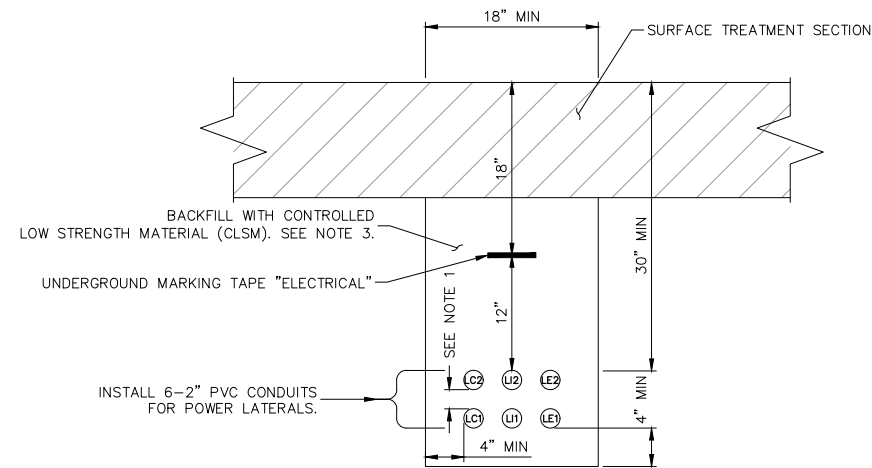
**MAIN COMMUNICATION BANK 'A' & MAIN POWER DUCT BANK OPEN TRENCH INSTALLATION**  
NOT TO SCALE

1  
CDT-1



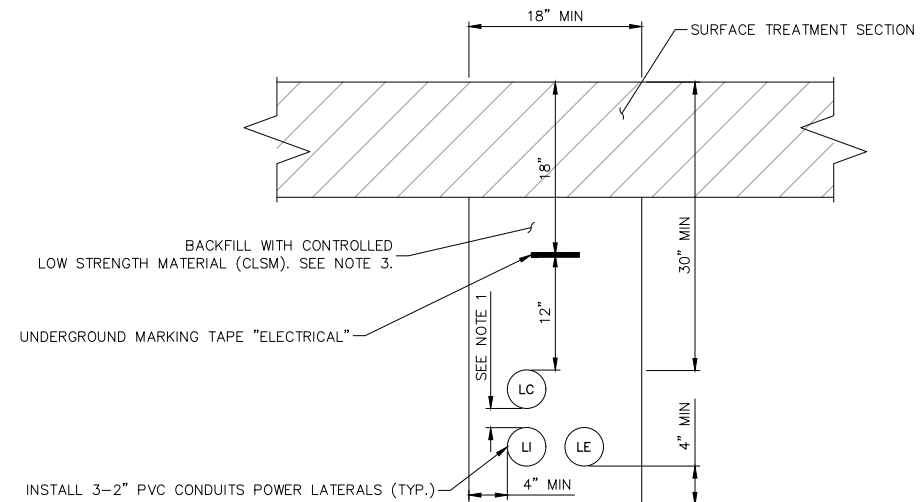
**PRIMARY POWER SERVICE LATERAL 'A' OPEN TRENCH INSTALLATION**  
NOT TO SCALE

2  
CDT-1



**PRIMARY POWER SERVICE LATERAL 'B' OPEN TRENCH INSTALLATION**  
NOT TO SCALE

3  
CDT-1



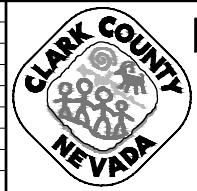
**SECONDARY POWER LATERAL OPEN TRENCH INSTALLATION**  
NOT TO SCALE

4  
CDT-1

- OPEN TRENCH DETAIL NOTES:
- CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.
  - ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
  - CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.
  - PVC CONDUIT SHALL BE SCHEDULE 40.

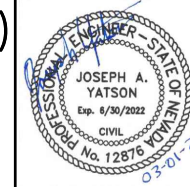
A = CARRIER, C = COUNTY, F = F.A.S.T., S = SPARE, P = PROVIDER, I = LIGHTING, LI = LIGHTING LATERAL, LC = COUNTY LATERAL, LE = CARRIER LATERAL

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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

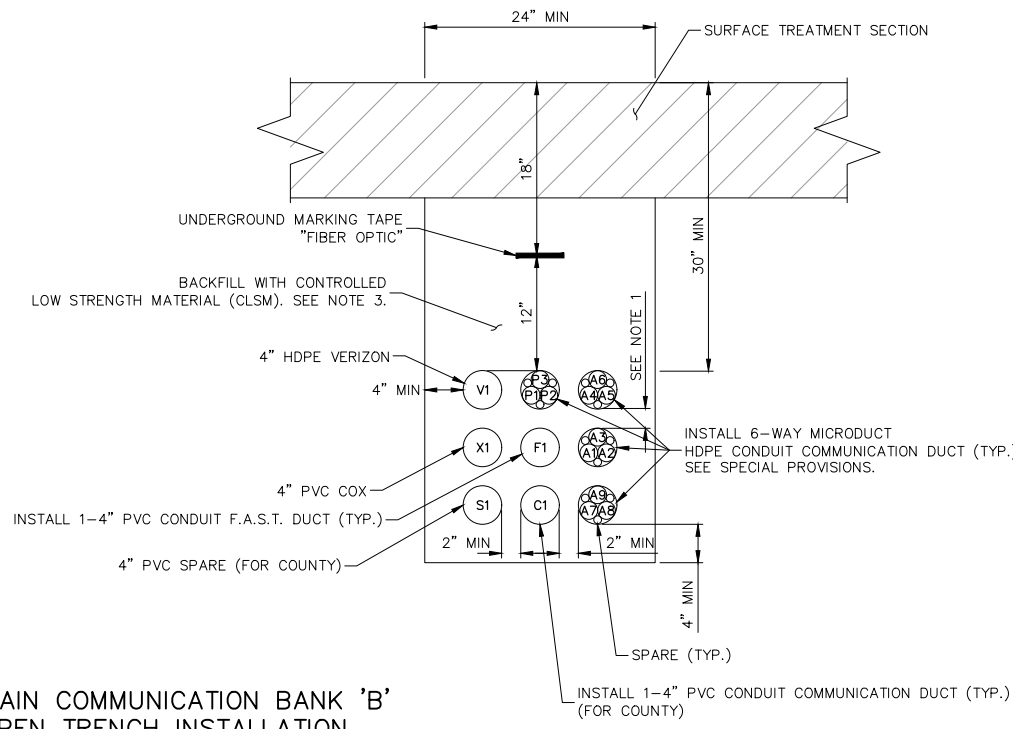
**OPEN TRENCH INSTALLATION DETAILS**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>CDT-1</b>
VERT: NONE	SHT. 126 OF 159
FIELD BOOK	L-2272

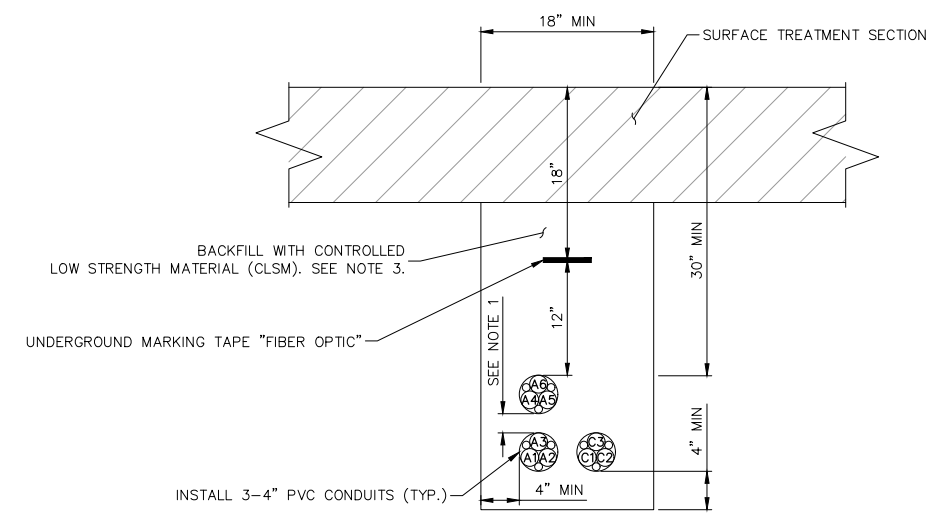
REV. NO.	DATE	DESCRIPTION	APPROVED



COMMUNICATION MICROCONDUIT COLOR DESIGNATION			
	OUTER SHEATH	INNER CONDUIT	DESIGNEE
A1	ORANGE	RED	VERIZON
A2	ORANGE	GREEN	LV. NET
A3	ORANGE	BLUE	COX
A4	ORANGE	YELLOW	ZAYO
A5	ORANGE	ORANGE	AT&T
A6	ORANGE	BROWN	EXTENET
A7	ORANGE	WHITE	MOBILITE
A8	ORANGE	GREY	CROWN
A9	ORANGE	BLACK	FUTURE
P1	GREY	BLUE	COUNTY
P2	GREY	GREEN	COUNTY
P3	GREY	ORANGE	COUNTY

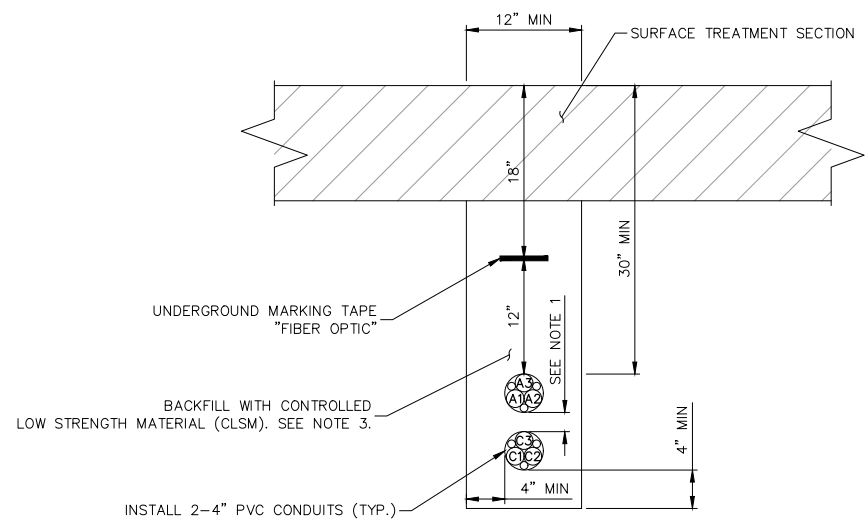
**MAIN COMMUNICATION BANK 'B'  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

1  
CDT-2



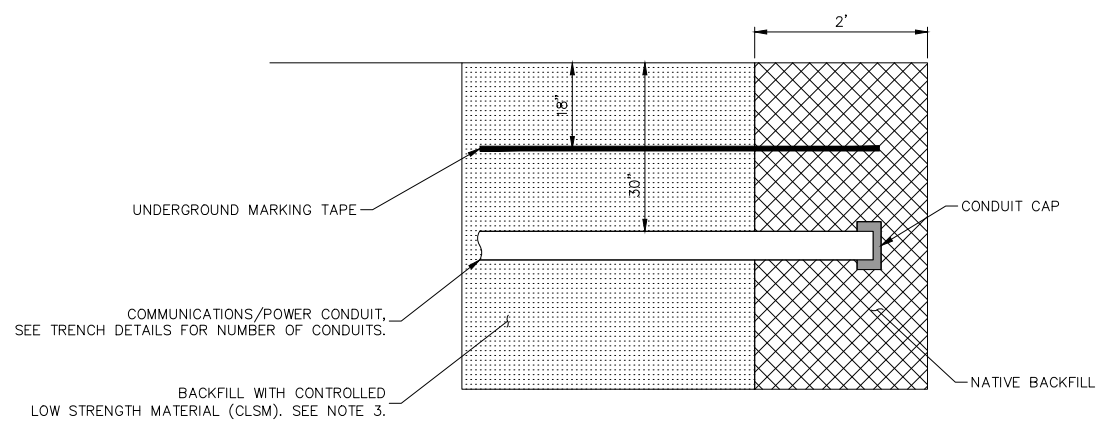
**PRIMARY COMMUNICATIONS LATERAL  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

2  
CDT-2



**SECONDARY COMMUNICATION LATERAL  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

3  
CDT-2



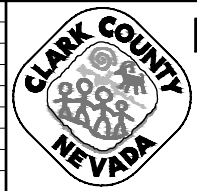
**CONDUIT TRENCH WITH CAP INSTALLATION**  
NOT TO SCALE

4  
CDT-2

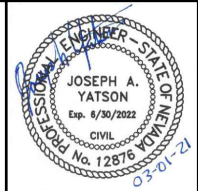
OPEN TRENCH DETAIL NOTES:  
 1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.  
 2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE  
 3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.  
 4. PVC CONDUIT SHALL BE SCHEDULE 40.  
 A = CARRIER, C = COUNTY, F = F.A.S.T., S = SPARE, P = PROVIDER, I = LIGHTING, X = COX, V = VERIZON

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REV. NO.	DATE	DESCRIPTION	APPROVED



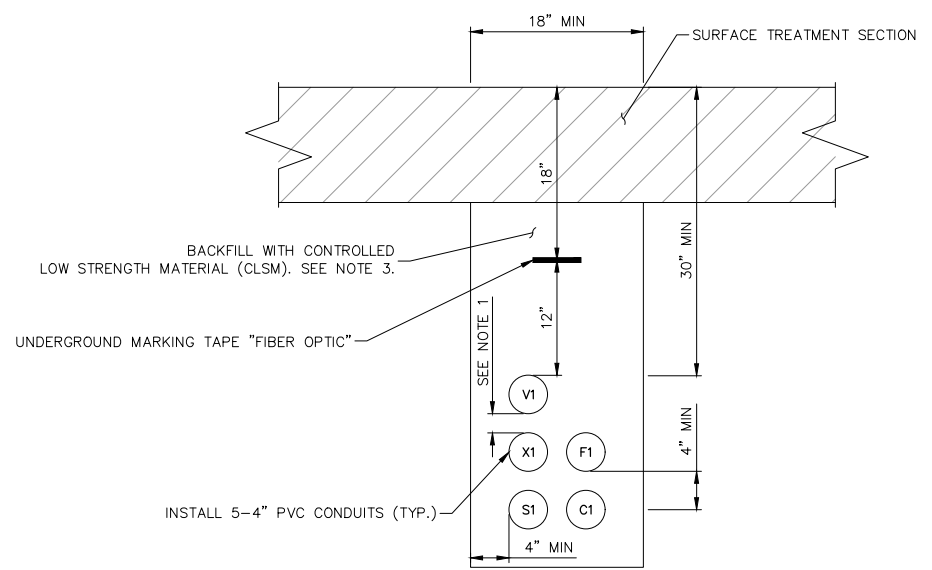
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**OPEN TRENCH INSTALLATION DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
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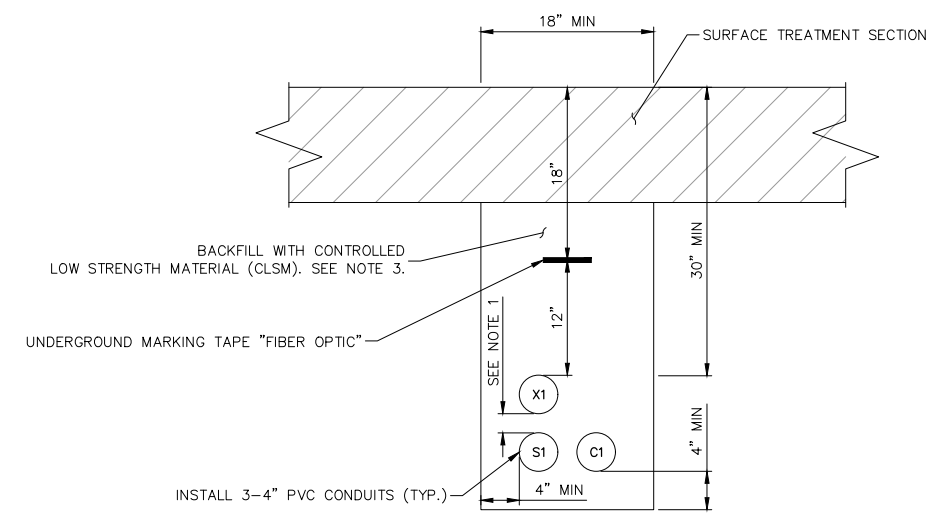
SCALE		DRAWING NO.
HORIZ:	NONE	CDT-2
VERT:	NONE	
FIELD BOOK		SHT. 127 OF 159
		L-2272





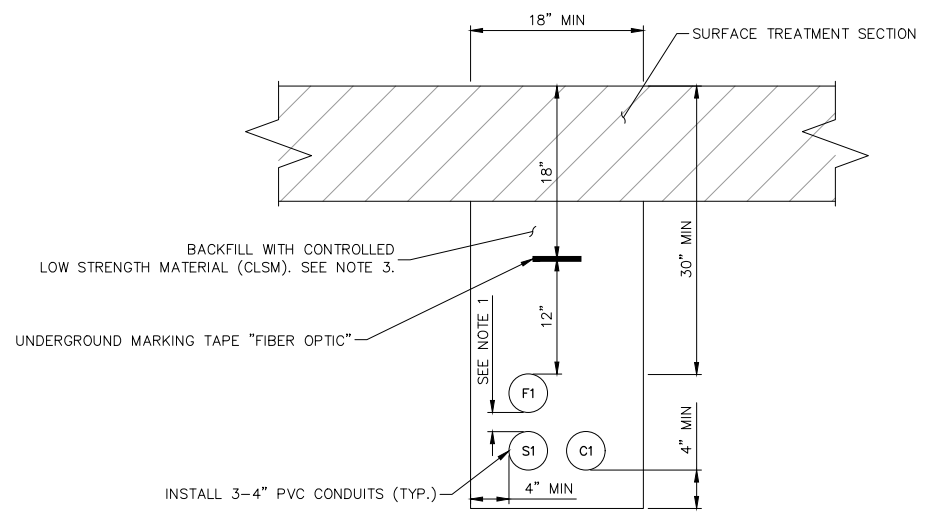
COUNTY/FAST/COX/VERIZON DUCT BANK  
OPEN TRENCH INSTALLATION  
NOT TO SCALE

1  
CDT-3



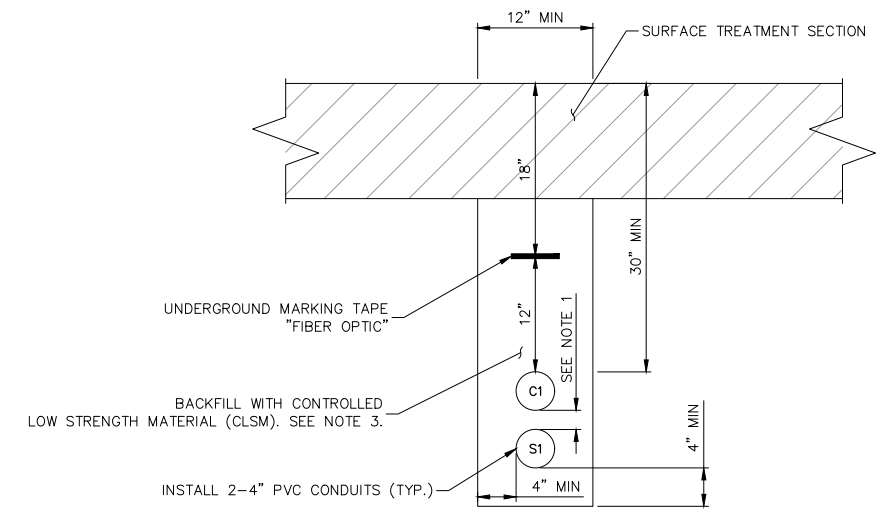
COUNTY/COX DUCT BANK  
OPEN TRENCH INSTALLATION  
NOT TO SCALE

2  
CDT-3



COUNTY/FAST LATERAL  
OPEN TRENCH INSTALLATION  
NOT TO SCALE

3  
CDT-3



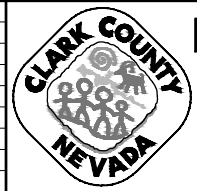
COUNTY DUCT BANK  
OPEN TRENCH INSTALLATION  
NOT TO SCALE

4  
CDT-3

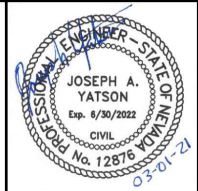
OPEN TRENCH DETAIL NOTES:  
 1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.  
 2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE  
 3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.  
 4. PVC CONDUIT SHALL BE SCHEDULE 40.  
 C = COUNTY, F = F.A.S.T., S = SPARE, X = COX, V = VERIZON

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REV. NO.	DATE	DESCRIPTION	APPROVED

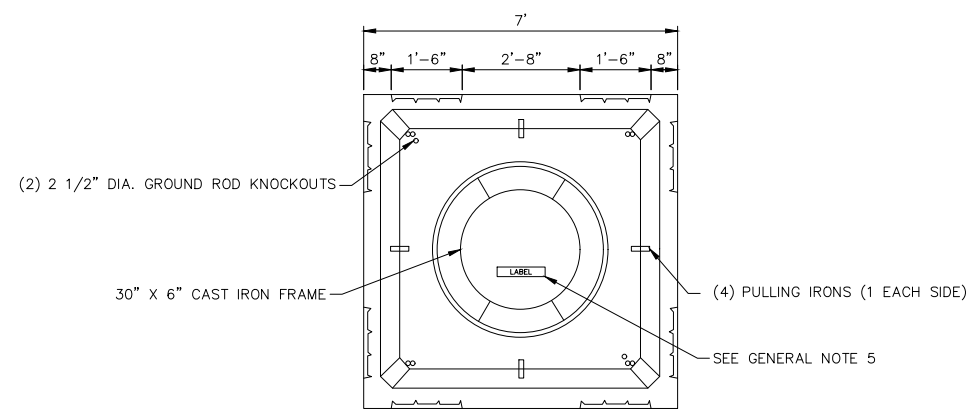


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**OPEN TRENCH INSTALLATION DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

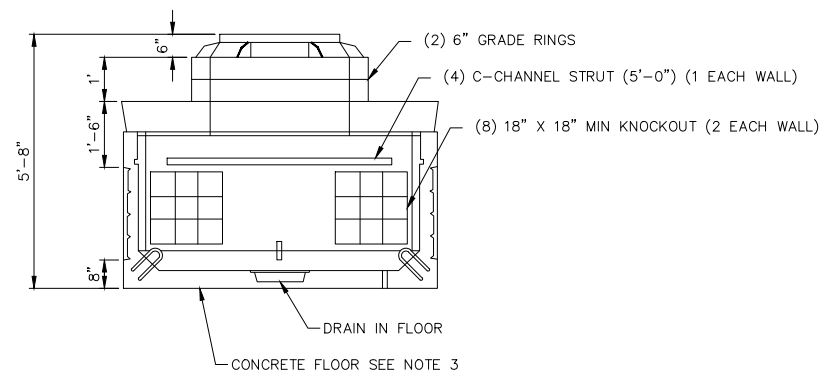


PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-3
VERT: NONE	SHT. 128 OF 159
FIELD BOOK	L-2272

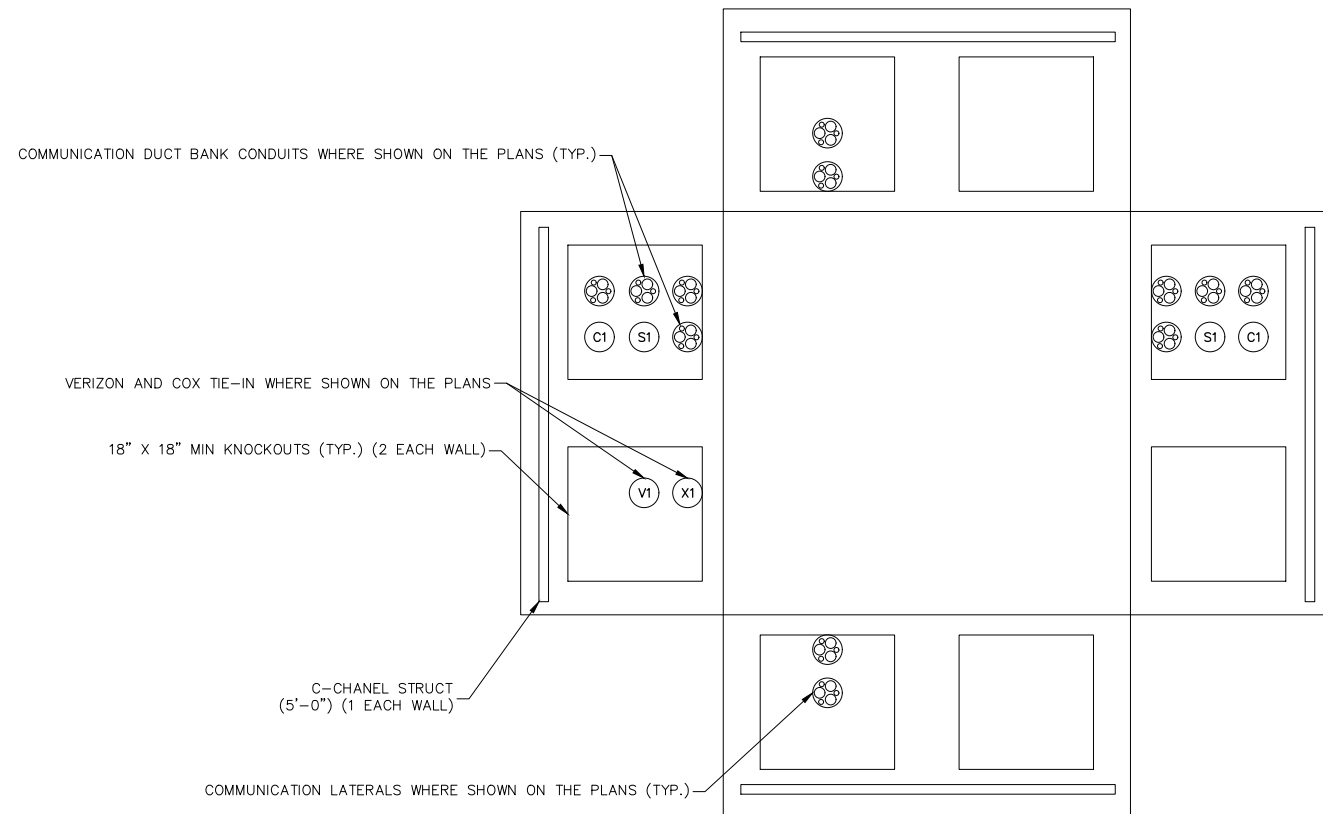


PLAN VIEW



SIDE VIEW

6' X 6' COMMUNICATION MANHOLE



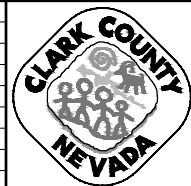
COMMUNICATION MANHOLE DETAIL

- GENERAL NOTES:**
- ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE.
  - CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL.
  - CONTRACTOR SHALL POUR THE CONCRETE FLOOR, WITH DRAIN, AFTER THE VAULT IS INSTALLED.
  - THE CONTRACTOR SHALL GROUT THE KNOCKOUT AREAS, AROUND THE CONDUIT, WITH A SMOOTH CONCRETE FINISH AFTER THE VAULT IS INSTALLED.
  - MANHOLE LID SHALL CORRESPOND TO THE MANHOLE TYPE CALLED OUT ON PLANS THE LABELS SHOULD BE AS FOLLOWS:
    - "COUNTY COMM" - COMMUNICATION MANHOLES DESIGNATED WITH A "C" ON THE PLANS
  - CONTRACTOR SHALL INSTALL 18" CONCRETE COLLAR AROUND MANHOLE LID.
  - ALL HDPE MICRODUCTS SHALL EXTEND A MINIMUM OF 12-INCHES INTO VAULTS FOR COUPLING TOGETHER WITH OTHER DUCTS.

- STRUCTURAL NOTES:**
- CONCRETE: 28 DAY COMPRESSIVE STRENGTH  $f_c = 5000$  PSI
  - REBAR: ASTM A-615 GRADE 60
  - MESH: ASTM A-1064 GRADE 65
  - DESIGN: ACI 316-11 BUILDING CODE  
ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE"
  - LOADS: HS20-44 W/30% IMPACT PER AASHTO  
80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 6'-0" DEPTH  
SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE  
80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
  - SOIL COVER: 0' TO 5' (MAX)

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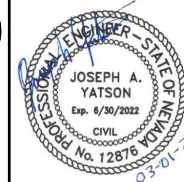
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

6'X6' COMMUNICATION MANHOLE DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

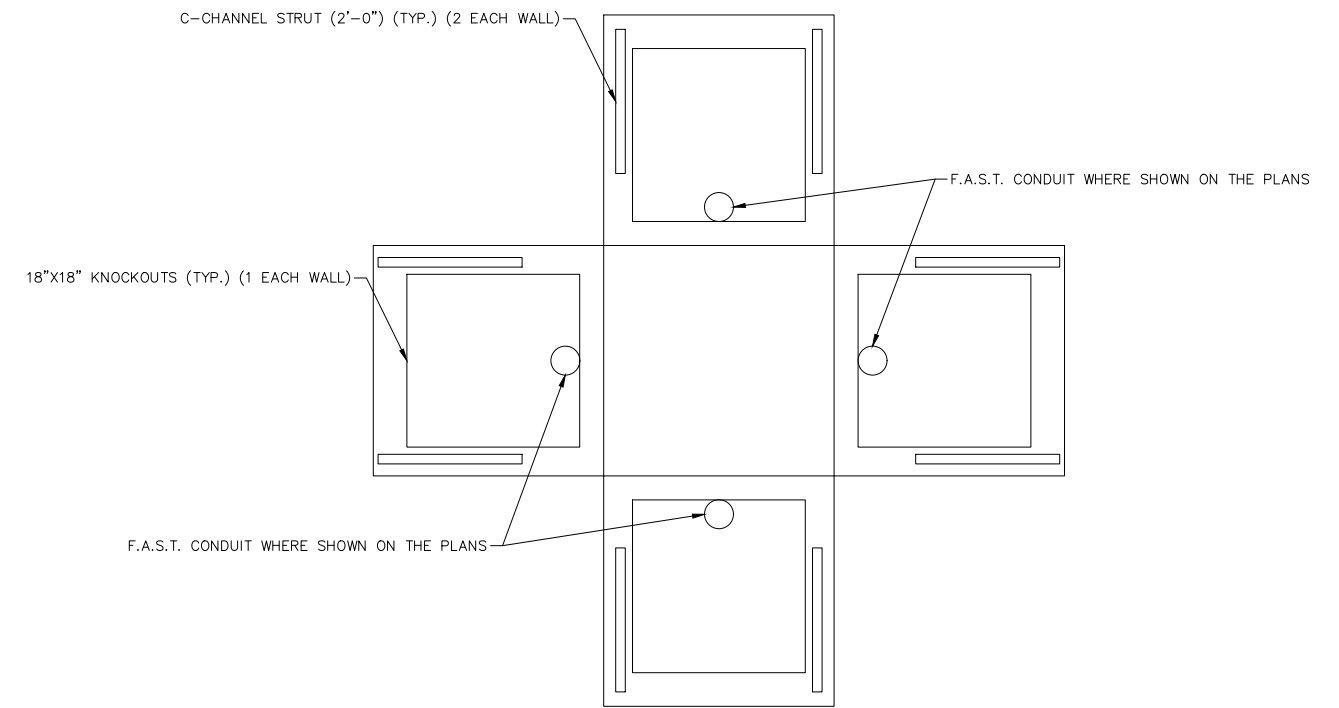
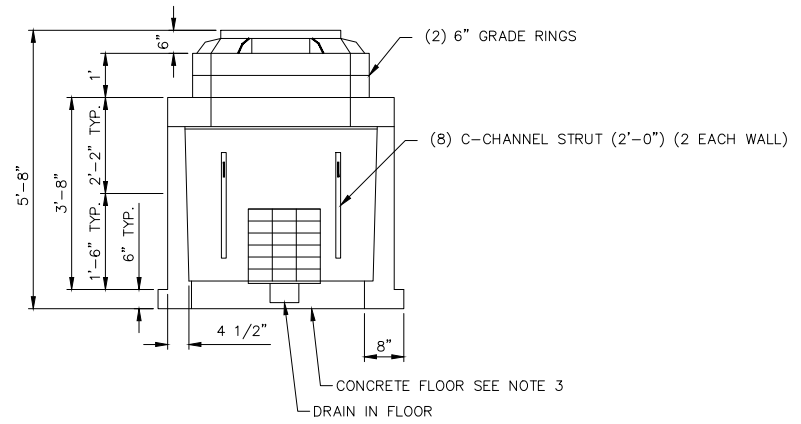
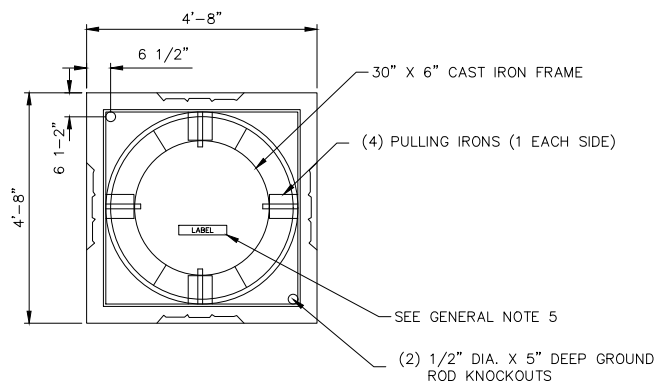


PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_

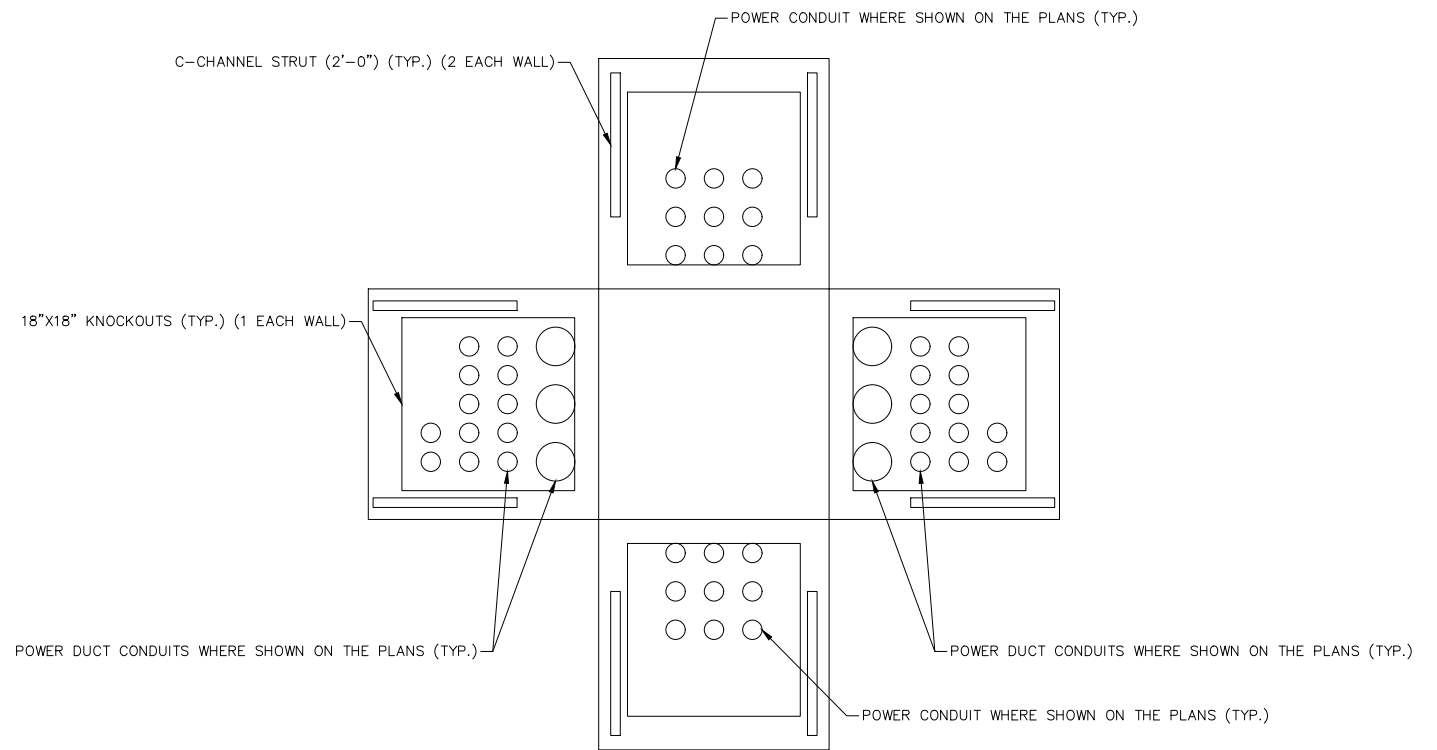
**GCV**  
 ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-4
VERT: NONE	SHT. 129 OF 159
FIELD BOOK	L-2272



F.A.S.T. MANHOLE DETAIL



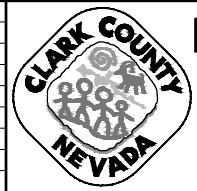
POWER MANHOLE DETAIL

- STRUCTURAL NOTES:**
1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH  $f_c = 5000$  PSI
  2. REBAR: ASTM A-615 GRADE 60
  3. MESH: ASTM A-1064 GRADE 65
  4. DESIGN: ACI 316-11 BUILDING CODE  
ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE"
  5. LOADS: HS20-44 W/30% IMPACT PER AASHTO  
80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 6'-0" DEPTH  
SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE  
80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
  6. SOIL COVER: 0' TO 5' (MAX)

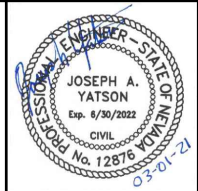
- GENERAL NOTES:**
1. ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE.
  2. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL.
  3. CONTRACTOR SHALL POUR THE CONCRETE FLOOR, WITH DRAIN, AFTER THE VAULT IS INSTALLED.
  4. THE CONTRACTOR SHALL GROUT THE KNOCKOUT AREAS, AROUND THE CONDUIT, WITH A SMOOTH CONCRETE FINISH AFTER THE VAULT IS INSTALLED.
  5. MANHOLE LID SHALL CORRESPOND TO THE MANHOLE TYPE CALLED OUT ON PLANS THE LABELS SHOULD BE AS FOLLOWS:
    - "COUNTY COMM" - COMMUNICATION MANHOLES DESIGNATED WITH A "C" ON THE PLANS
    - "FAST" - F.A.S.T. MANHOLE DESIGNATED WITH AN "ITS" ON THE PLANS
    - "COUNTY ELEC" - ELECTRICAL MANHOLES DESIGNATED WITH A "E" ON THE PLANS
  6. CONTRACTOR SHALL INSTALL 18" CONCRETE COLLAR AROUND MANHOLE LID.
  7. ALL HDPE MICRODUCTS SHALL EXTEND A MINIMUM OF 12-INCHES INTO VAULTS FOR COUPLING TOGETHER WITH OTHER DUCTS.

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REV. NO.	DATE	DESCRIPTION	APPROVED



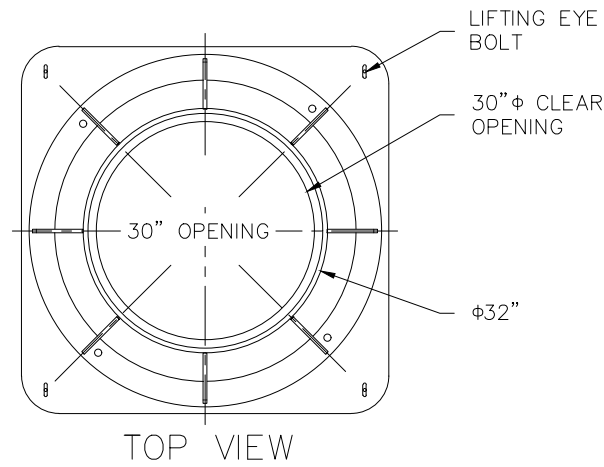
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**4'X4' F.A.S.T. MANHOLE DETAILS**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



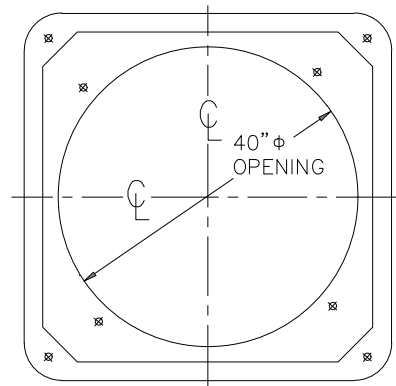
PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: NONE	CDT-5
VERT: NONE	SHT. 130 OF 159
FIELD BOOK	L-2272

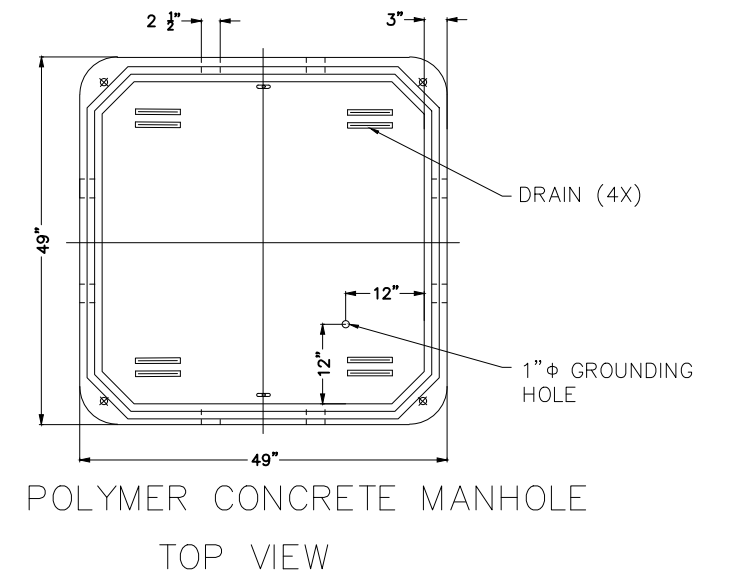
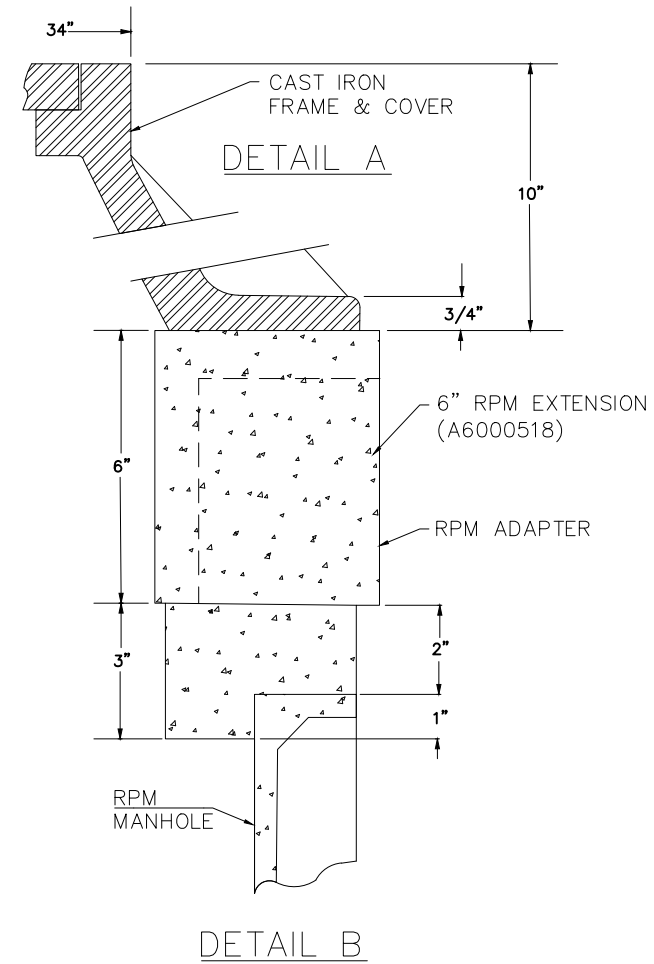




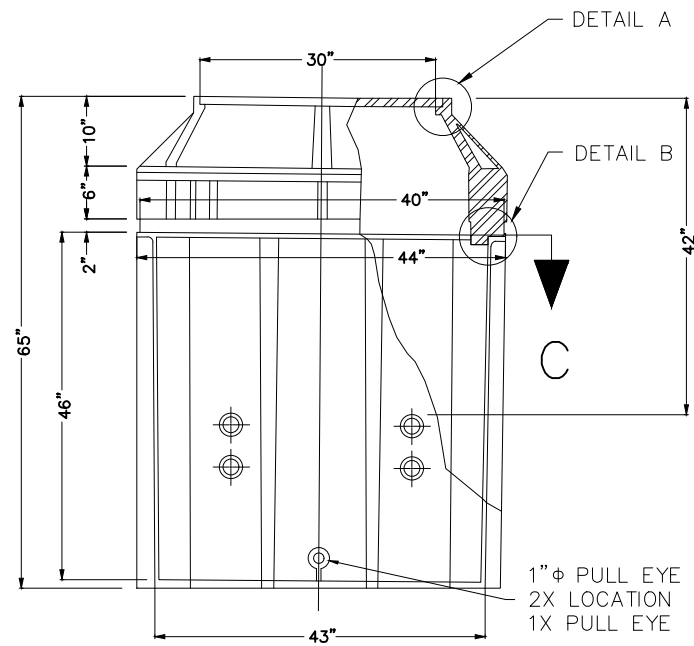
TOP VIEW



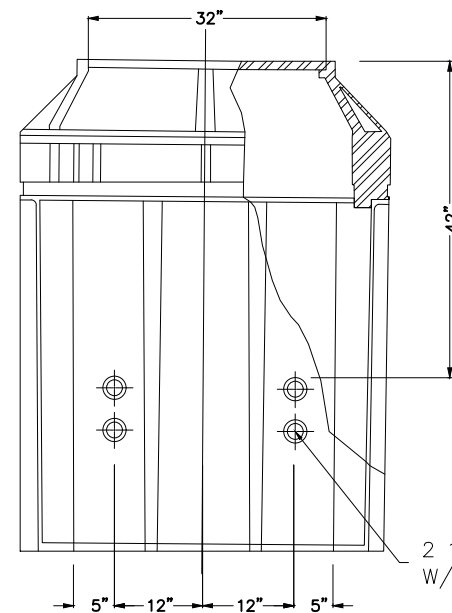
POLYMER CONCRETE ADAPTER  
SECTION C-C



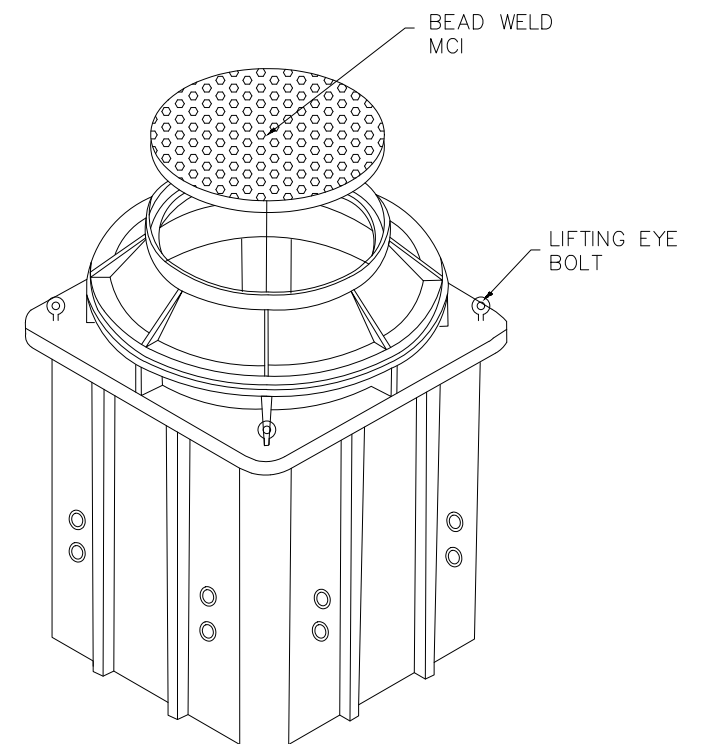
POLYMER CONCRETE MANHOLE  
TOP VIEW



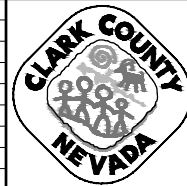
1"  $\phi$  PULL EYE  
2X LOCATION  
1X PULL EYE



2 1/2"  $\phi$  HOLES FOR 2"  $\phi$  CONDUIT  
W/RED CAPS 4 ON EACH WALL(16X)



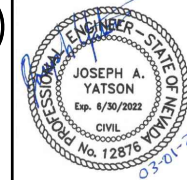
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

4'X4'X4' VERIZON MANHOLE DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

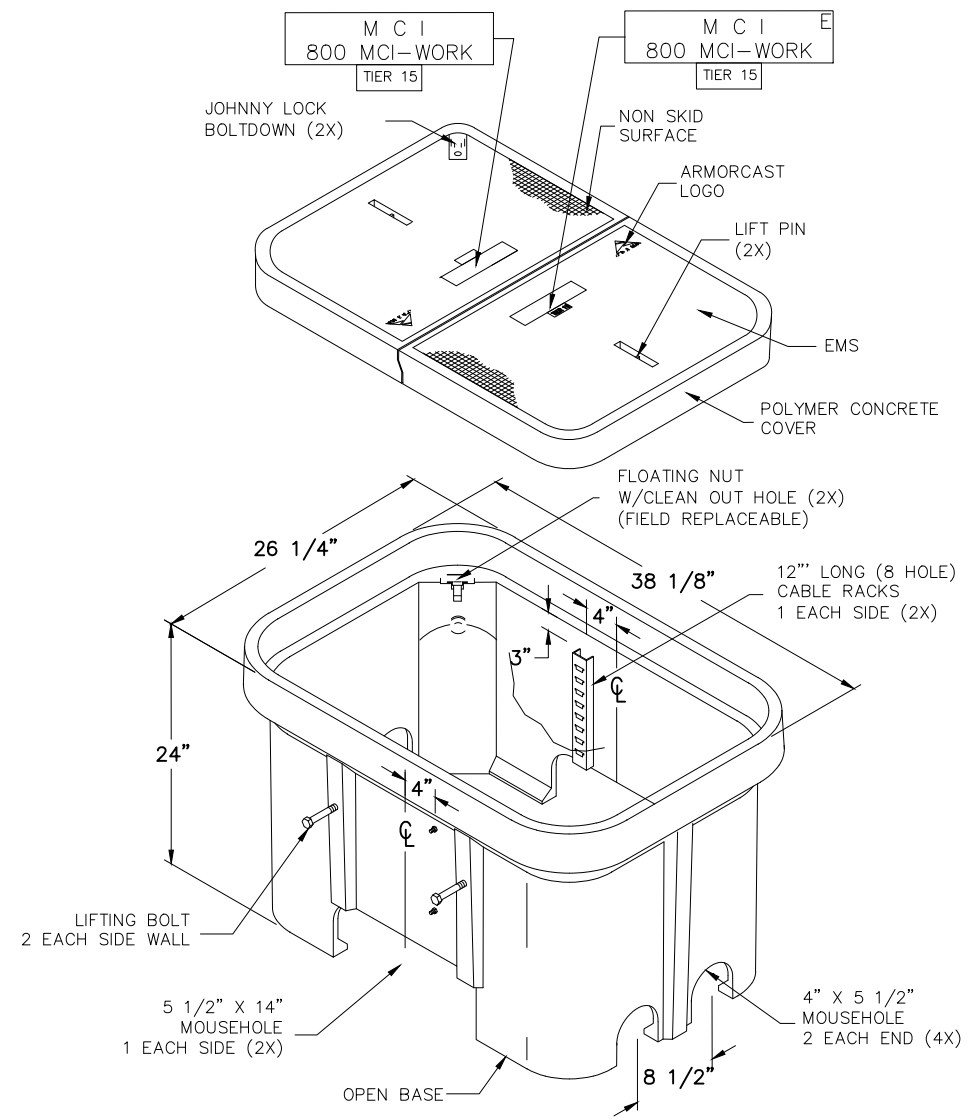


PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: JAY  
APPROVED BY: \_\_\_\_\_  
GCV ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
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gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-6
VERT: NONE	SHT. 131 OF 159
FIELD BOOK	L-2272

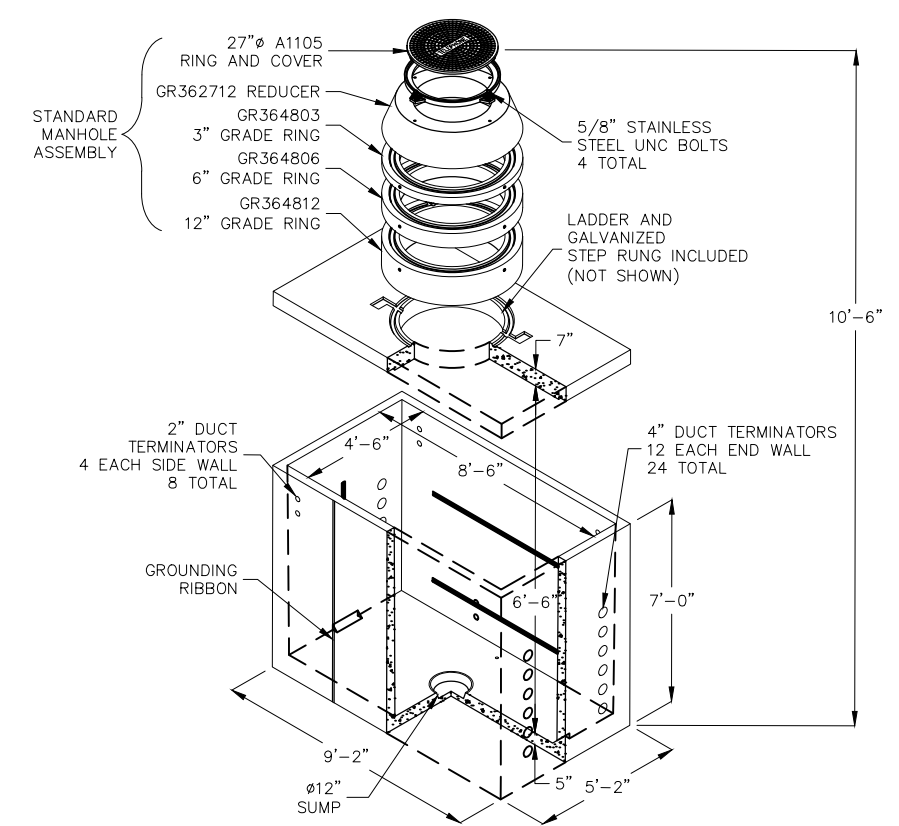
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

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 02-26-21 09:49:53  
 dhines



NOTE:  
 BOX AND COVER ASSEMBLY MEET  
 ANSI/SCTE 77 TIER 15 LOADING

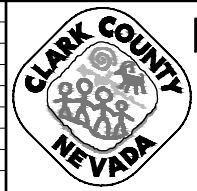
**1** 2'X3'X2' VERIZON HAND HOLE DETAIL  
 SCALE: NTS



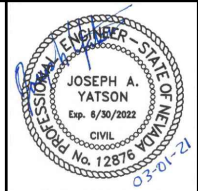
DESIGN LOAD: H-20 TRAFFIC WITH 13 INCHES TO 3 FEET SOIL COVER TO TOP OF COVER SLAB. WATER TABLE BELOW BASE OF VAULT.  
 ALL FEATURES PER CURRENT CENTURYLINK SPECIFICATIONS.  
 CABLE RACKING PROVIDED WITH EACH MANHOLE FOR FIELD INSTALLATION.  
 FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

**2** TYPE 510 CATV MANHOLE DETAIL  
 SCALE: NTS

REV. NO.	DATE	DESCRIPTION	APPROVED

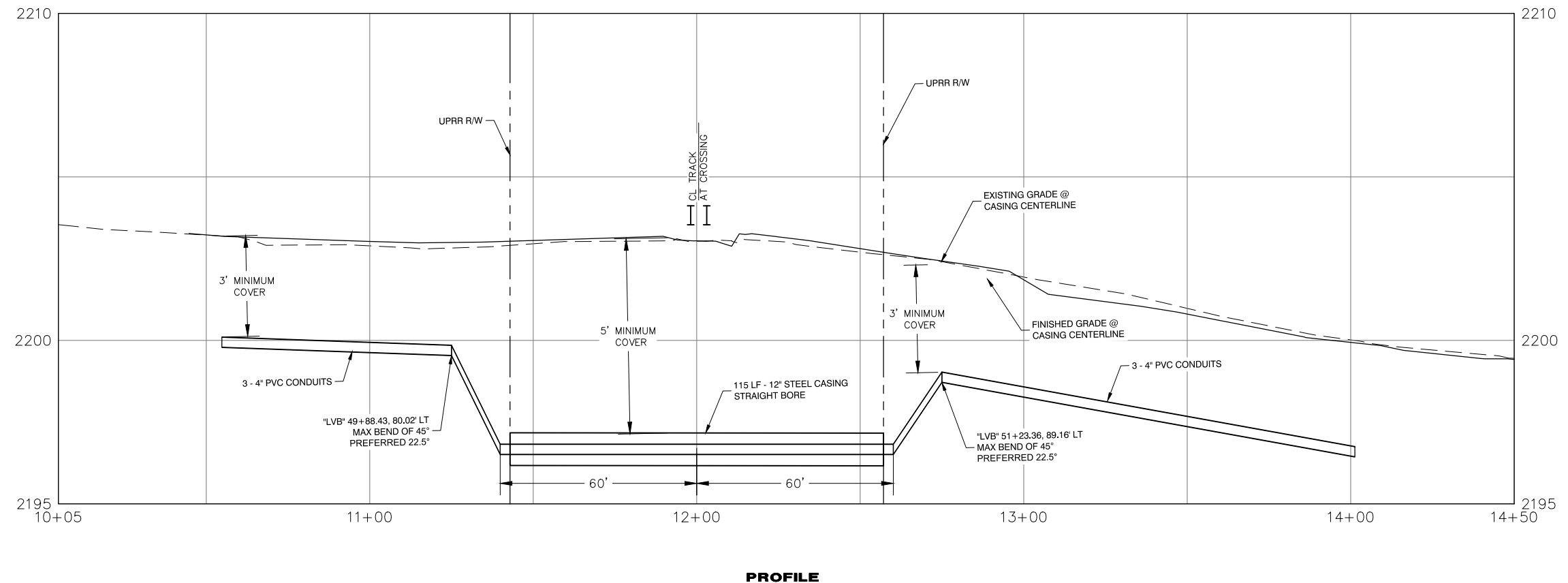
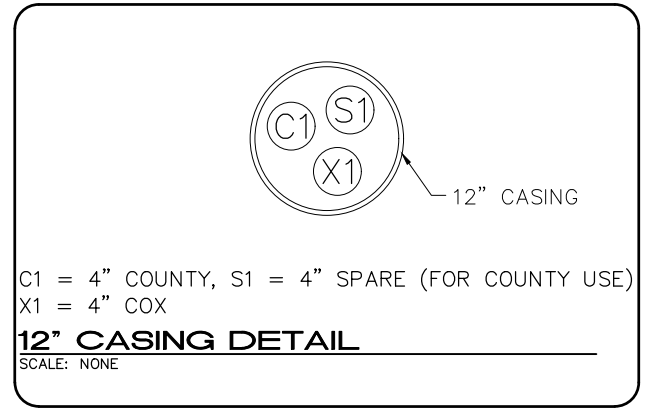
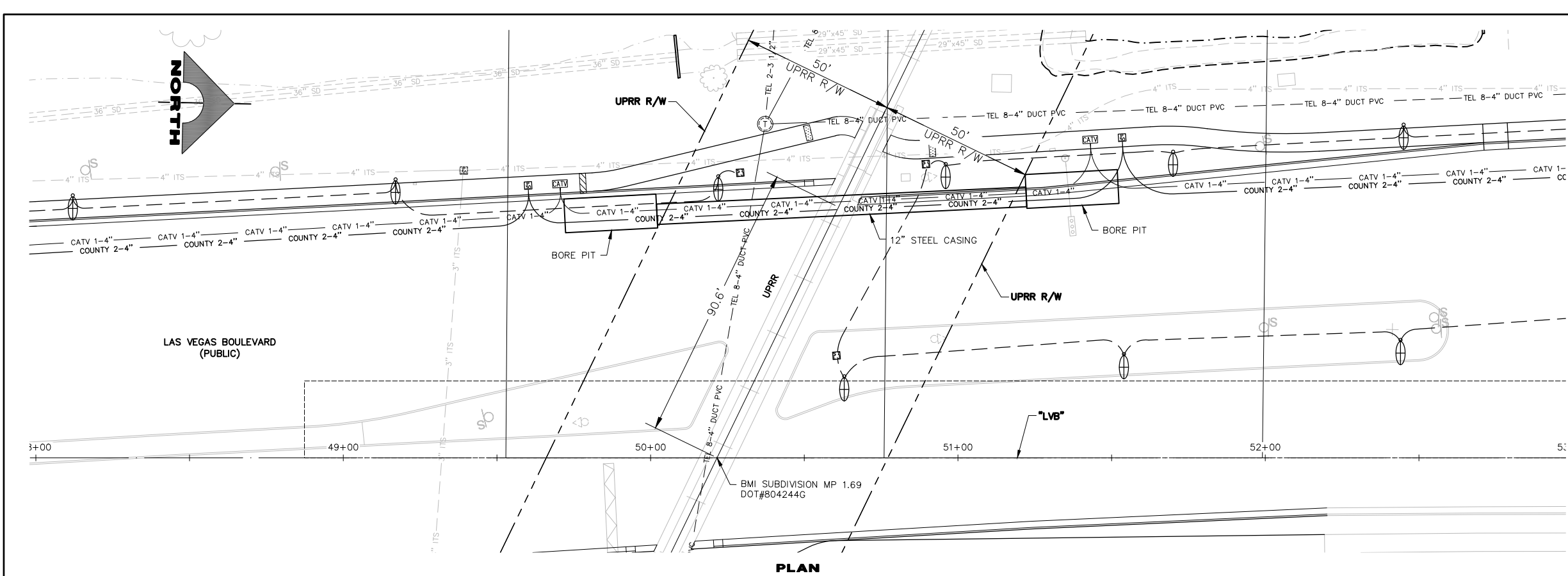


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
 COX/VERIZON DETAILS  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



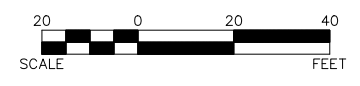
PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-7
VERT: NONE	SHT. 132 OF 159
FIELD BOOK	L-2272

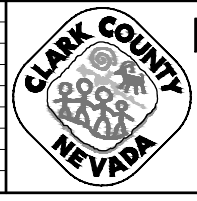


APPROVED FOR CONSTRUCTION  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20

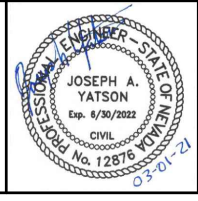
NOTE: MAINTAIN A MINIMUM OF 3' PARALLEL SEPARATION BETWEEN EXISTING WATER FACILITIES AND ITS CONDUIT. MAINTAIN A MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**UPRR BORE DETAIL**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: JAY  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
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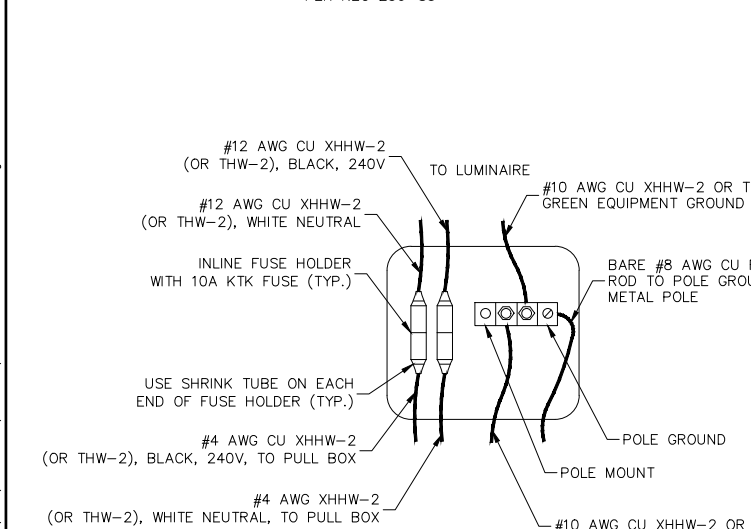
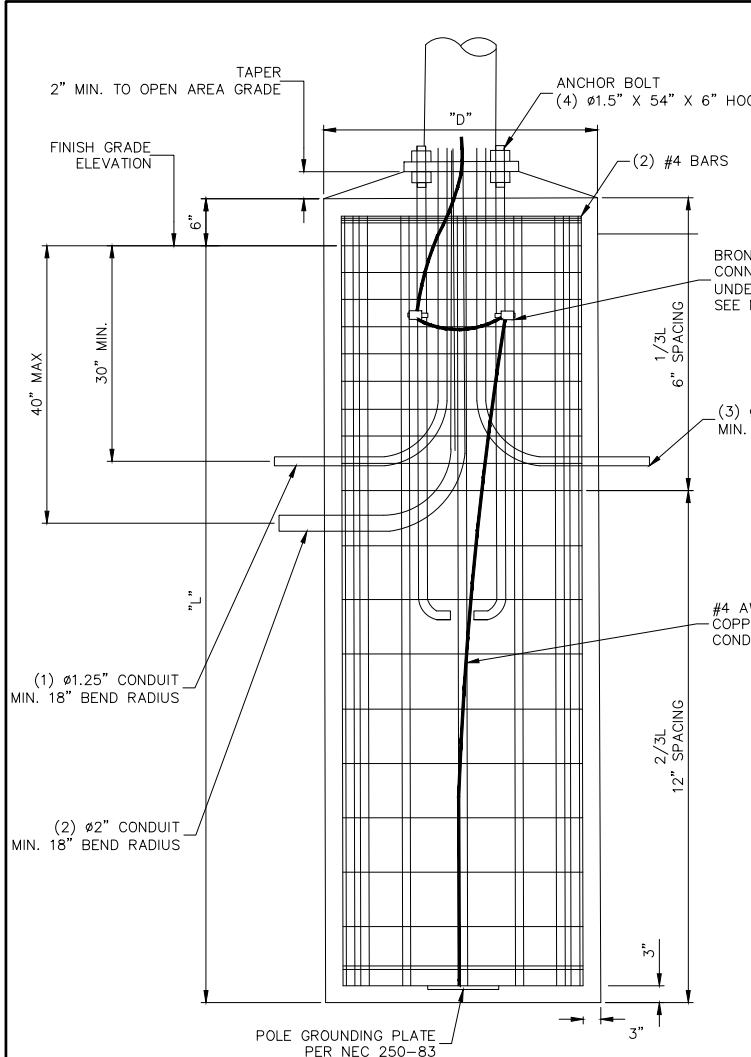
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HORIZ: AS SHOWN  
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FIELD BOOK  
DRAWING NO. **CDT-8**  
SHT. 133 OF 159  
L-2272

02-26-21 09:50:52 F:\Projects\500-897-LV\DWG\Production\Phase B\LA\_LVB\_BORE\_DT\_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



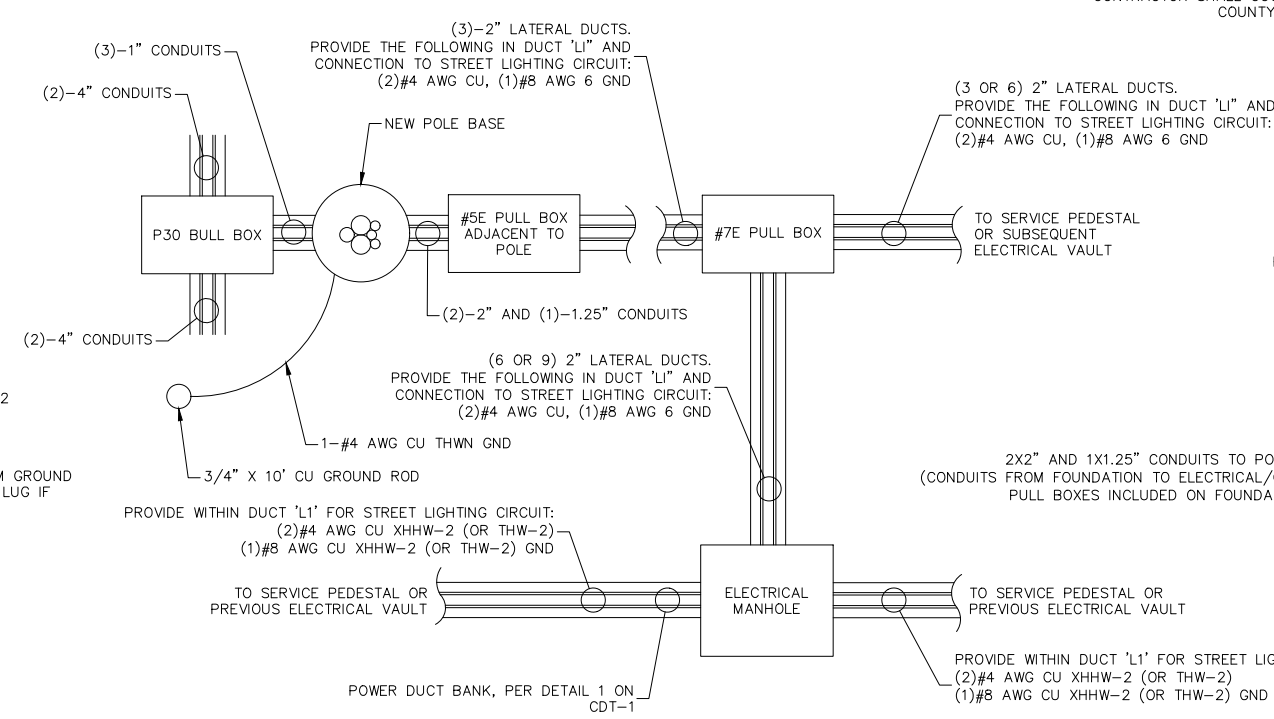
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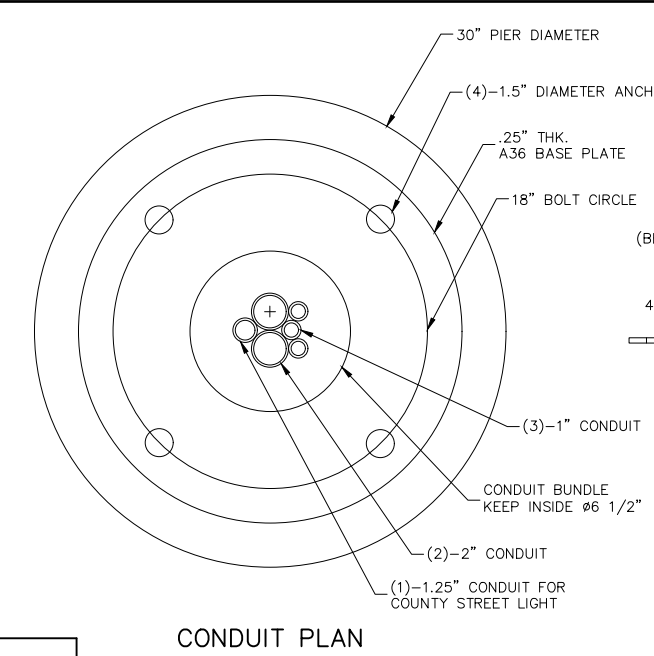
SMART POLE STREET LIGHTING FUSING & GROUNDING DETAILS (TYP.)

- GENERAL NOTES:**
1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
  2. FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
  3. FOUNDATION TO BE POURED MONOLITHICALLY.
  4. FOUNDATION DESIGN BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. IF WATER TABLE IS ENCOUNTERED AT TIME OF EXCAVATION, CONSULT VALMONT OR A GEOTECH ENGINEER.
  5. SITE GRADE IS 7H TO 1V OR FLATTER.
  6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI, LOCAL, AND STATE CODES.
  7. ALL METHODS OF CONSTRUCTION AND INSTALLATION AND THE RESPONSIBILITY OF THE CONTRACTOR.
  8. DESIGN BASED ON ASSUMED SOIL CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE ACTUAL SITE SOIL CONDITIONS MEET OR EXCEED ASSUMED VALUES.
  9. CONTINUOUS BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME, AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE POLE GROUNDING PLATE.

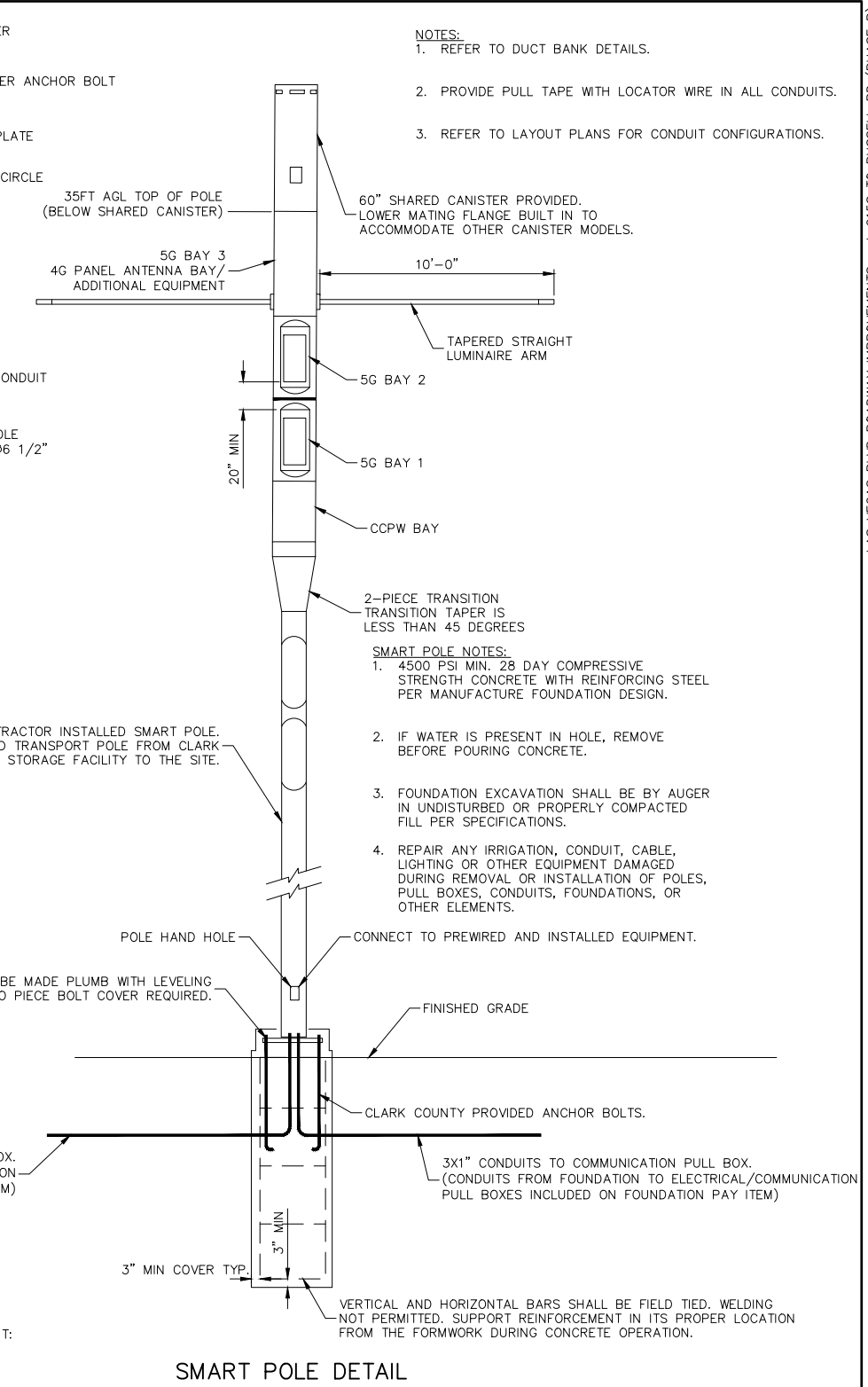
POLE	CAISSON DATA (EA)			LONGITUDINAL BARS (EA)		TRANSVERSE BARS (EA)
	DIAMETER (D)	LENGTH (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE
40'-0"	2.5	12	4,500	14	#8	#4



ELECTRICAL PULL BOX AND SMART POLE BASE CONNECTION DETAIL (TYP.)



CONDUIT PLAN



SMART POLE DETAIL

- NOTES:**
1. REFER TO DUCT BANK DETAILS.
  2. PROVIDE PULL TAPE WITH LOCATOR WIRE IN ALL CONDUITS.
  3. REFER TO LAYOUT PLANS FOR CONDUIT CONFIGURATIONS.

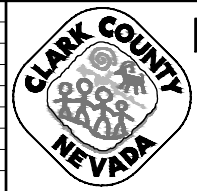
- SMART POLE NOTES:**
1. 4500 PSI MIN. 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH REINFORCING STEEL PER MANUFACTURE FOUNDATION DESIGN.
  2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
  3. FOUNDATION EXCAVATION SHALL BE BY AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL PER SPECIFICATIONS.
  4. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS, OR OTHER ELEMENTS.

CLARK COUNTY FURNISHED CONTRACTOR INSTALLED SMART POLE. CONTRACTOR SHALL COORDINATE AND TRANSPORT POLE FROM CLARK COUNTY DESIGNATED STORAGE FACILITY TO THE SITE.

POLE SHALL BE MADE PLUMB WITH LEVELING NUTS. TWO PIECE BOLT COVER REQUIRED.

VERTICAL AND HORIZONTAL BARS SHALL BE FIELD TIED. WELDING NOT PERMITTED. SUPPORT REINFORCEMENT IN ITS PROPER LOCATION FROM THE FORMWORK DURING CONCRETE OPERATION.

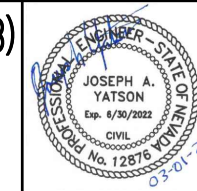
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**SMART POLE DETAIL**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_

**GCV**  
 ENGINEERS SURVEYORS

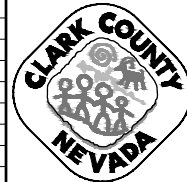
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-9
VERT: NONE	SHT. 134 OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO: 605718-20

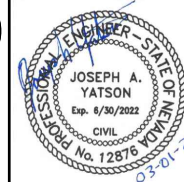


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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

LANDSCAPE LIGHT TYPICAL/OBSTRUCTION LIGHT DETAIL  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

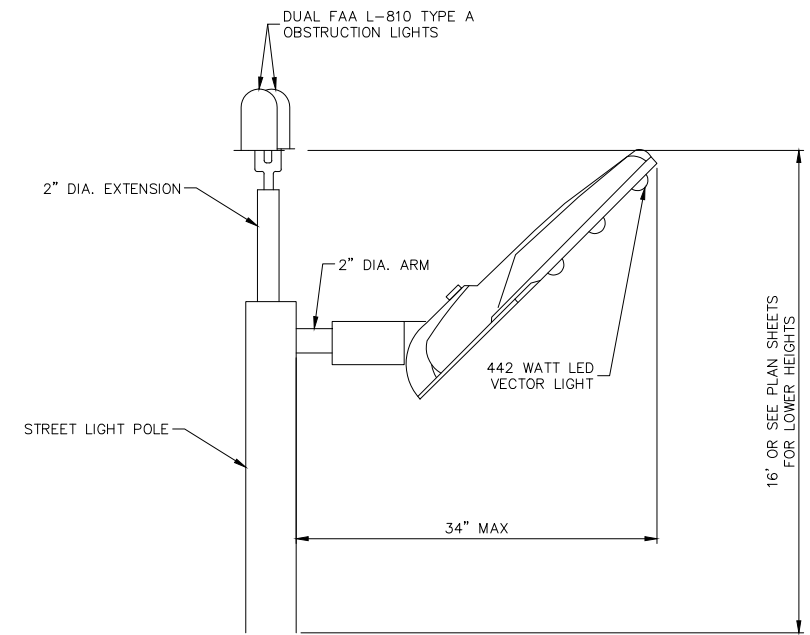


PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: NONE  
 VERT: NONE  
 FIELD BOOK

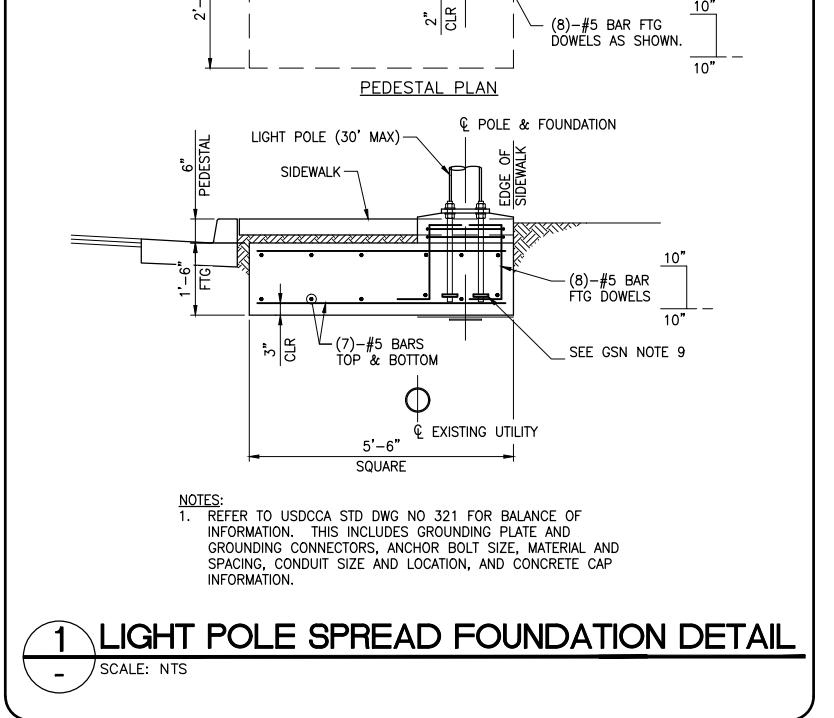
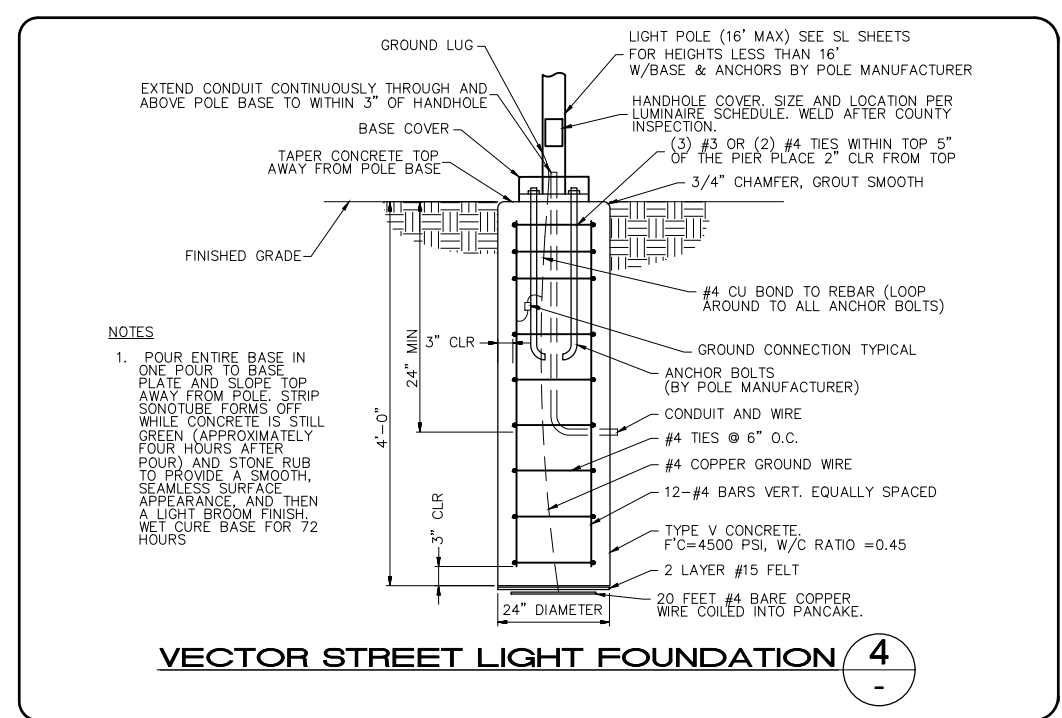
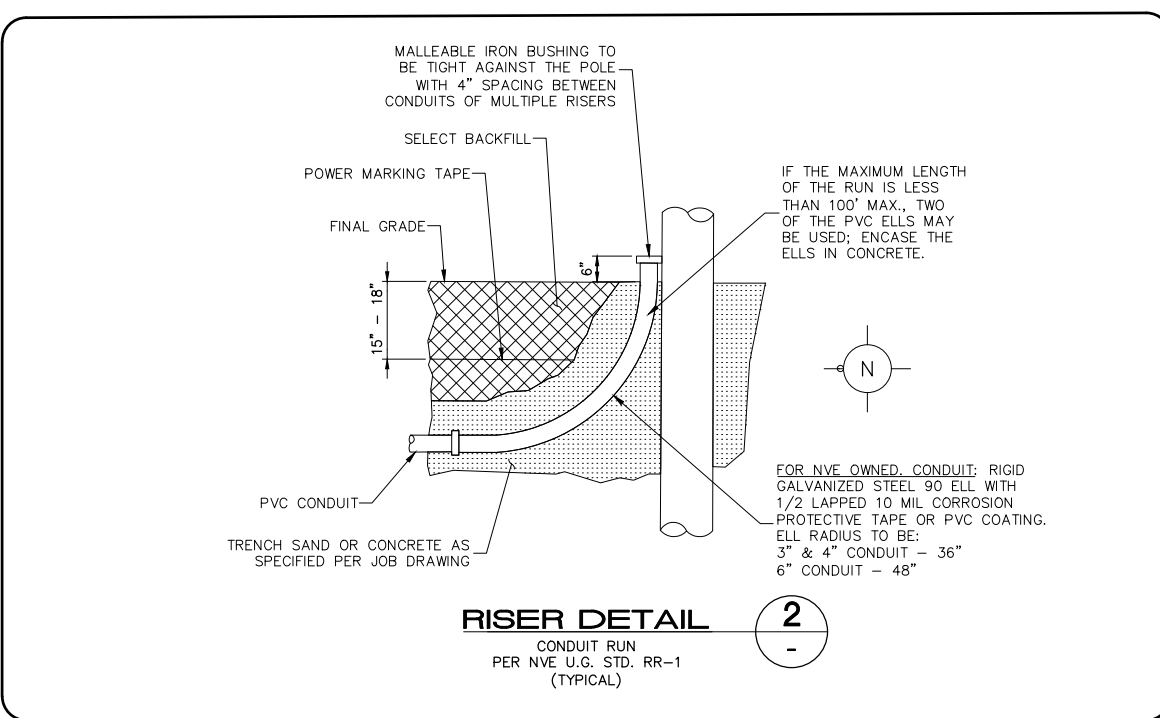
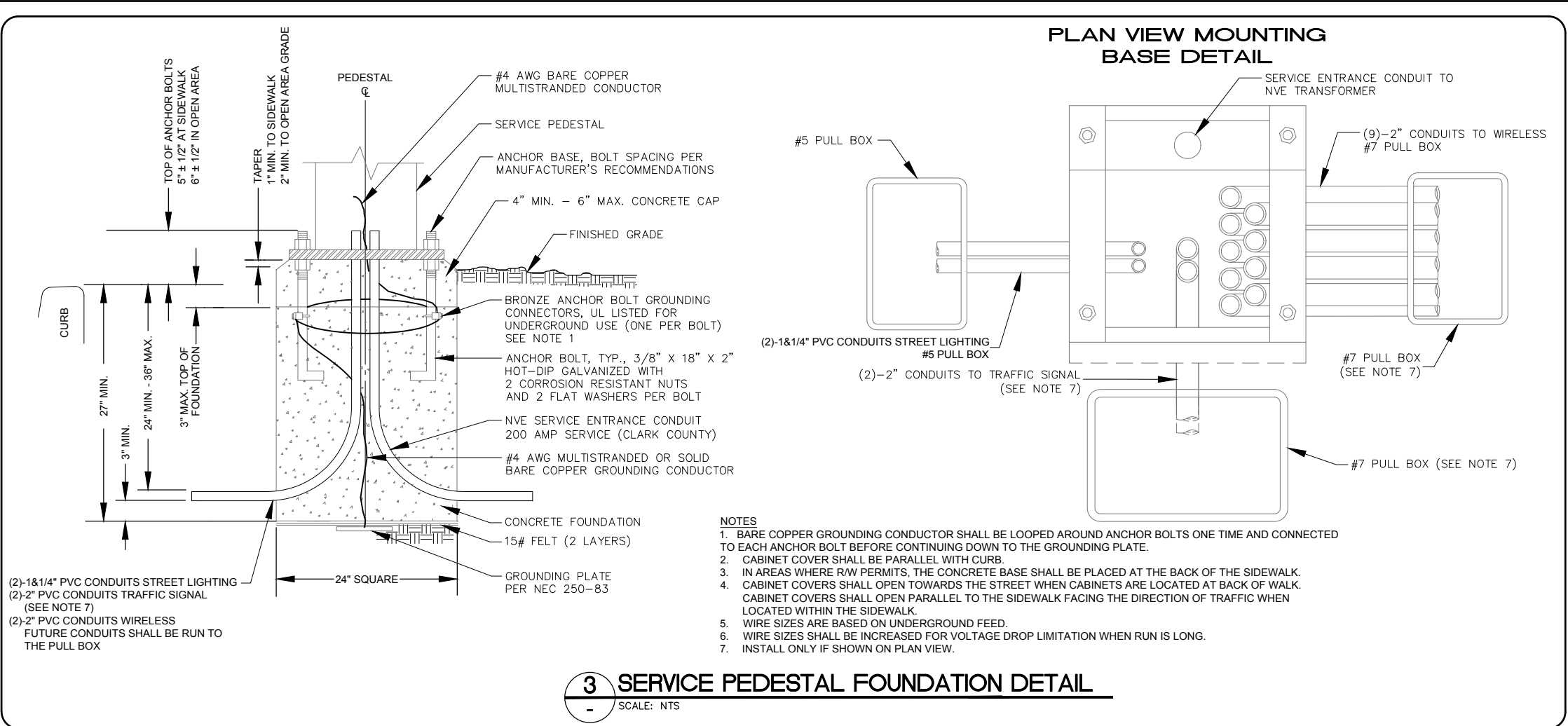
DRAWING NO.  
**CDT-11**  
 SHT. 136 OF 159  
 L-2272



AIRCRAFT OBSTRUCTION LIGHT DETAIL

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





REV. NO.	DATE	DESCRIPTION	APPROVED

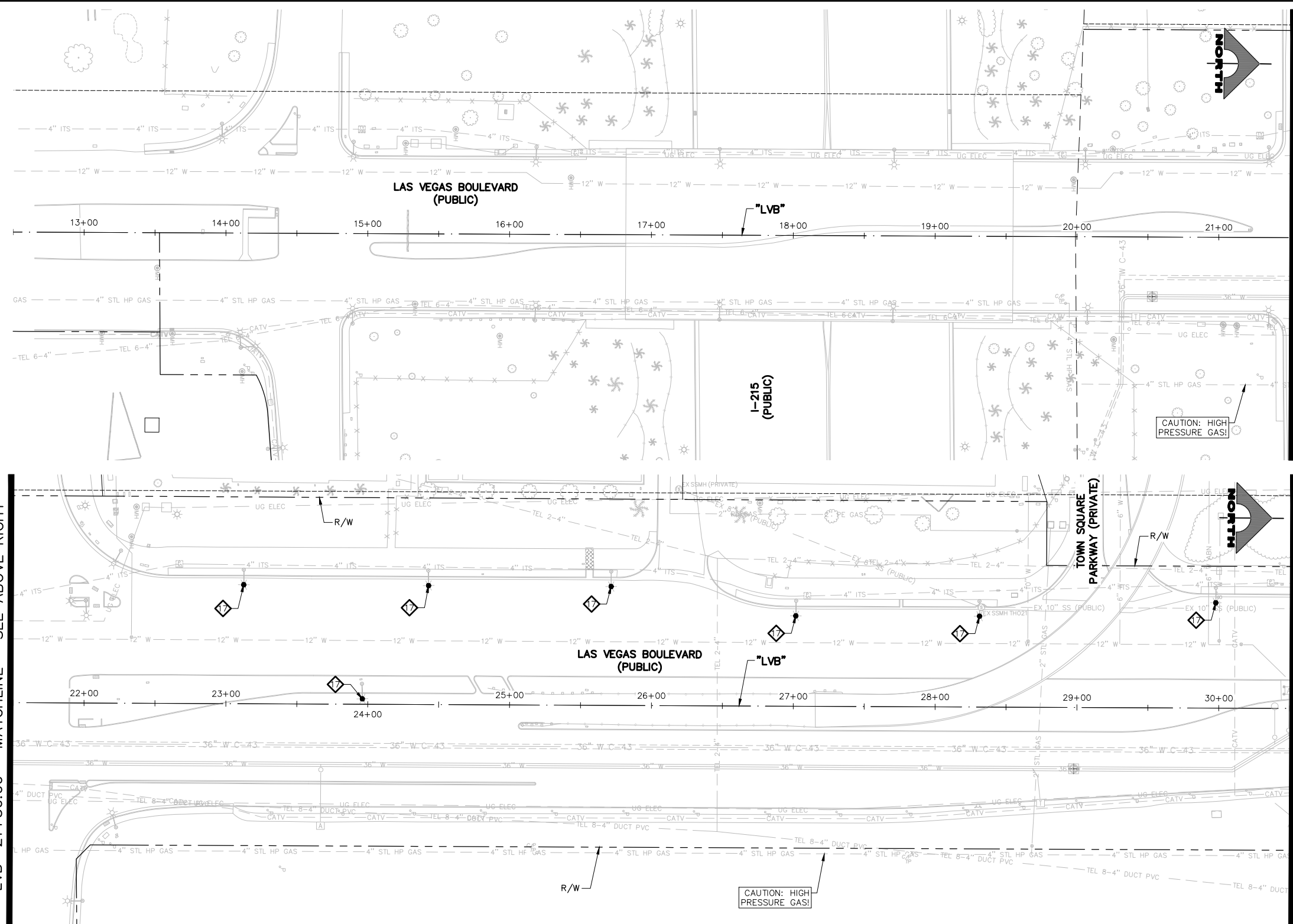
## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### STRUCTURAL DETAILS

#### CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV	DRAWN BY: DAT	SCALE:	DRAWING NO.
DESIGNED BY: DAT	CHECKED BY: EGG	HORIZ: NONE	CDT-12
APPROVED BY: _____		VERT: NONE	
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com		FIELD BOOK	L-2272

dhines 02-26-21 09:46:42 F:\Projects\500\500-897-LV\DWG\Production\Phase B\1-215\_LVB\_SL\_Sheets.dwg



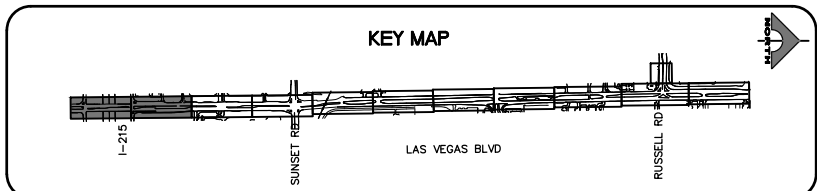
SEE ABOVE RIGHT MATCHLINE SEE BELOW LEFT MATCHLINE "LVB" 21+50.00 MATCHLINE "LVB" 30+50.00 MATCHLINE SEE DRAWING NO. SL-2

- LIGHTING NOTES**
- 1 INSTALL 16-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY. LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
  - 1A INSTALL 16-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION. LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 1, DRAWING CDT-12.)
  - 2 INSTALL 11-GAUGE STREET LIGHT ASSEMBLY WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314 AND 321.)
  - 2A INSTALL 11-GAUGE STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314) (SEE DETAIL 1, DRAWING CDT-12.)
  - 3 INSTALL 1 1/4-INCH CONDUIT WITH 2-#4, 1-#8 GND (STREET LIGHT).
  - 4 INSTALL 1 1/4-INCH CONDUIT WITH 1-#8 GND (STREET LIGHT).
  - 5 INTERCEPT AND EXTEND FROM EXISTING CONDUIT OR PULLBOX (NO DIRECT PAYMENT).
  - 6 INSTALL MAIN POWER DUCT BANK. (SEE DETAIL 1, DRAWING CDT-1.)
  - 7 INSTALL PRIMARY POWER LATERAL 'A'. (SEE DETAIL 2, DRAWING CDT-1.)
  - 8 INSTALL PRIMARY POWER LATERAL 'B'. (SEE DETAIL 3, DRAWING CDT-1.)
  - 9 INSTALL SECONDARY POWER LATERAL. (SEE DETAIL 4, DRAWING CDT-1.)
  - 10 INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE. (SEE DETAIL 1, DRAWING CDT-5.) SEE MANHOLE TABLE ON DRAWING SL-6 AND SL-8 FOR LOCATION.
  - 11 INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707).
  - 12 INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706).
  - 13 INSTALL COUNTY-FURNISHED SMART POLE WITH CONTRACTOR-FURNISHED DUAL LUMINAIRES ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 14 INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 15 INSTALL (10) 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 16 INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 17 REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  - 18 INSTALL NO. 3 1/2 PULLBOX (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 705).
  - 19 INSTALL (1) 2-INCH CONDUIT WITH 1-#8 GND.
  - 20 INSTALL COUNTY-FURNISHED SMART POLE (NO LUMINAIRE) ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 21 INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE.
  - 22 INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE. (SEE DETAIL 2, DRAWING CDT-12.)
  - 23 INSTALL RS-1 PULLBOX (NVE).
  - 24 INSTALL DUAL FAA L-810 TYPE A LED OBSTRUCTION LIGHTS. (SEE DETAIL ON DRAWING CDT-11.)
  - 25 INSTALL 2-#4, 1-#8 GND FOR OBSTRUCTION LIGHTING CIRCUIT.
  - 26 REMOVE PULLBOX.
  - 27 STUB AND CAP. SEE DETAIL 4, DRAWING CDT-2.
  - 28 INSTALL 200 OR 400 AMP PAD MOUNT SERVICE PEDESTAL. SIZE NOTED ON PLANS. (SEE DETAILS ON DRAWING CDT-12.) (USDCCA STD. DWG. NO. 331, 332.52 AND 730).
  - 29 MODIFY EXISTING SERVICE PEDESTAL (SEE DRAWING SL-9.)
  - 30 INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN EACH CONDUIT.
  - 31 INSTALL 2-#4, 1-#8 GND IN EXISTING CONDUIT.
  - 32 INSTALL (2) 1 1/4-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 33 INSTALL (6) 6'X6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER". (NDOT STD. PLAN NO. TG-21.)
  - 34 INSTALL (1) 4-INCH PVC POWER CONDUIT (EXTENET).
  - 35 REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
  - E EXISTING STREET LIGHT TO REMAIN.
  - XX NUMBER OF CARRIER POWER CONDUITS. SEE DETAIL 1, DRAWING CDT-1.

**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

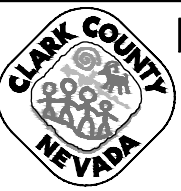
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



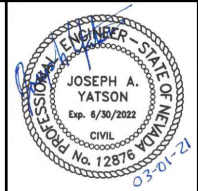
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
**"LVB" 12+50.00 TO "LVB" 30+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



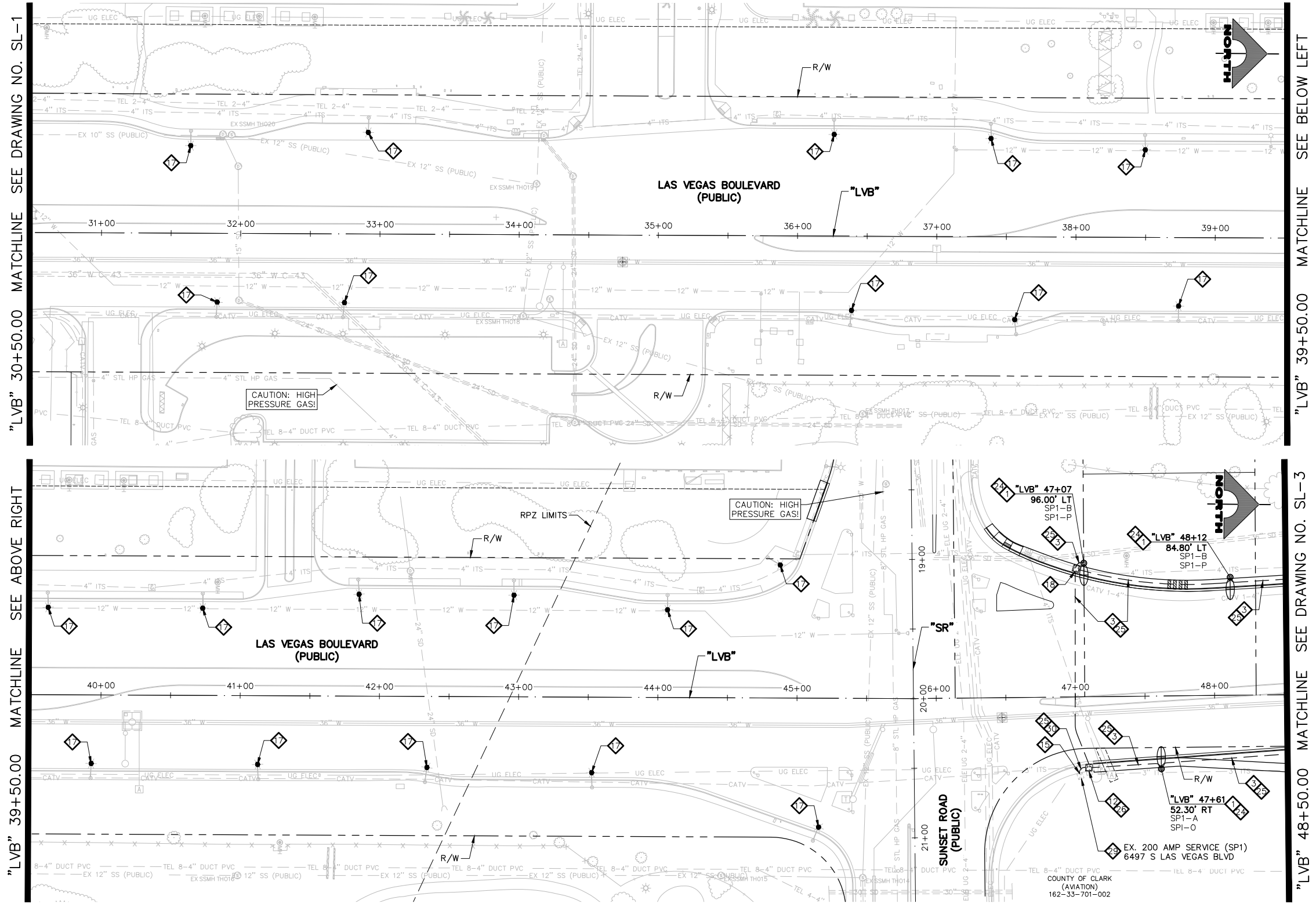
PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS/SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: \_\_\_\_\_  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK: \_\_\_\_\_  
DRAWING NO. **SL-1**  
SHT. 138 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



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"LVB" 30+50.00 MATCHLINE SEE DRAWING NO. SL-1

"LVB" 39+50.00 MATCHLINE SEE ABOVE RIGHT

"LVB" 39+50.00 MATCHLINE SEE BELOW LEFT

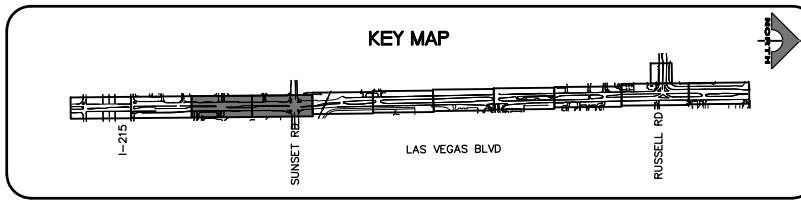
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- LIGHTING NOTES**
- 1 INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY. LUMINAIRE (HOLOPHANE MODEL #MGLD-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
  - 1A INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION. LUMINAIRE (HOLOPHANE MODEL #MGLD-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 1, DRAWING CDT-12.)
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  - 14 INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT.
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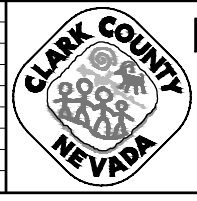
**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 12/30/20  
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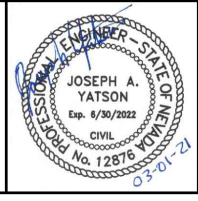
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
**"LVB" 30+50.00 TO "LVB" 48+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



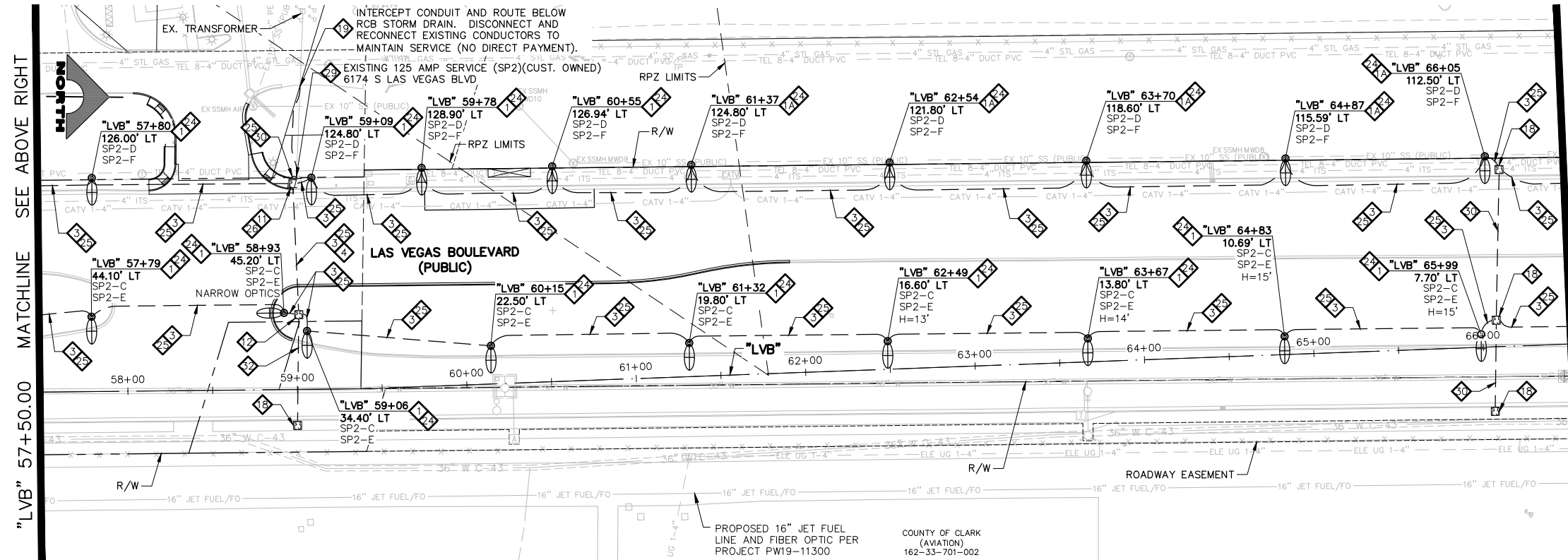
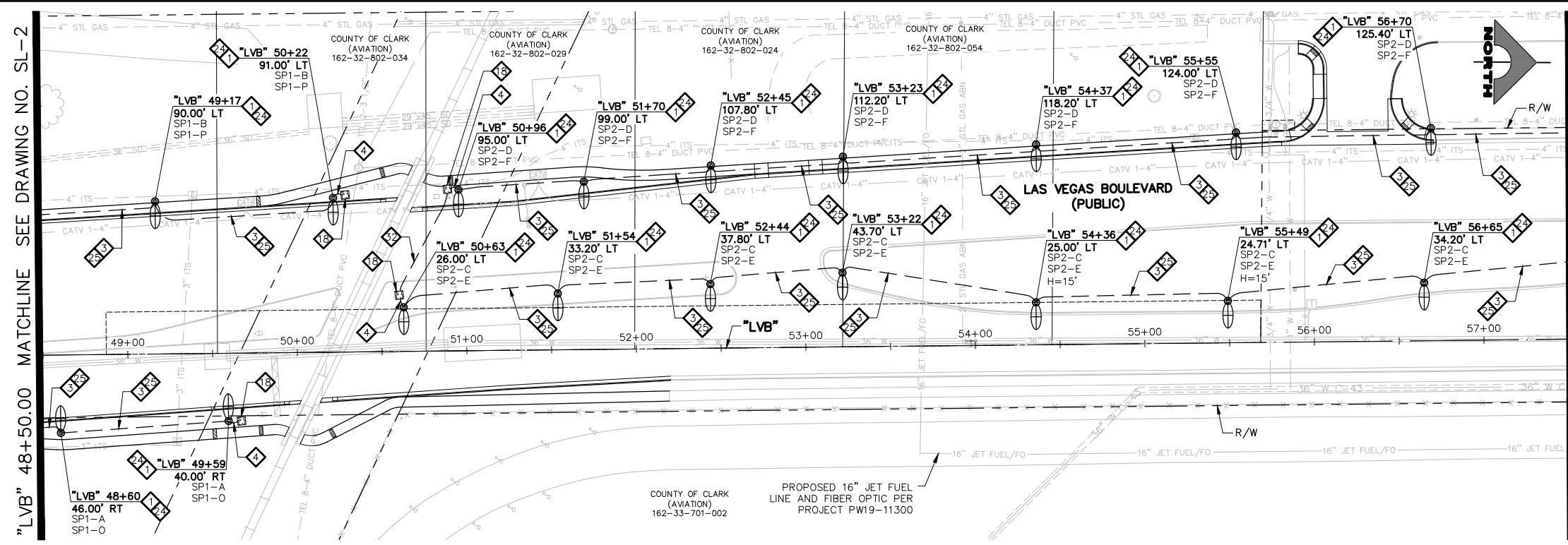
PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
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 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
 DRAWING NO. **SL-2**  
 SHT. 139 OF 159  
 L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



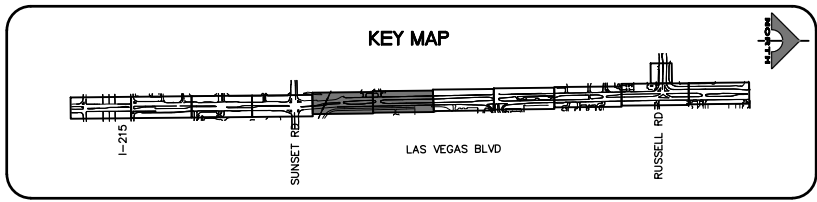
02-26-21 09:47:37 F:\Projects\500-897-LV\DWG\Production\Phase B\4-LVB\_SL\_Sheets.dwg



- LIGHTING NOTES**
- 1 INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY WITH LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
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  - 29 STUB AND CAP. SEE DETAIL 4, DRAWING CDT-2.
  - 30 INSTALL 200 OR 400 AMP PAD MOUNT SERVICE PEDESTAL. SIZE NOTED ON PLANS. (SEE DETAILS ON DRAWING CDT-12.) (USDCCA STD. DWG. NO. 331, 332.52 AND 730.)
  - 31 MODIFY EXISTING SERVICE PEDESTAL (SEE DRAWING SL-9.)
  - 32 INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN EACH CONDUIT.
  - 33 INSTALL 2-#4, 1-#8 GND IN EXISTING CONDUIT.
  - 34 INSTALL (2) 1 1/4-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 35 INSTALL (6) 6'x6" COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER". (NDOT STD. PLAN NO. TG-21.)
  - 36 INSTALL (1) 4-INCH PVC POWER CONDUIT (EXTENET).
  - 37 REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
  - 38 EXISTING STREET LIGHT TO REMAIN.
  - 39 NUMBER OF CARRIER POWER CONDUITS. (SEE DETAIL 1, DRAWING CDT-1.)

**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

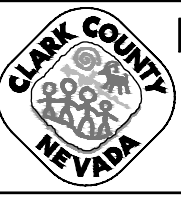
**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



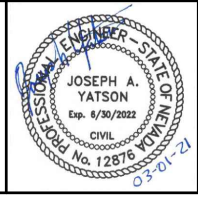
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
"LVB" 48+50.00 TO "LVB" 66+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS/SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	SL-3
VERT: NONE	SHT. 140 OF 159
FIELD BOOK	L-2272

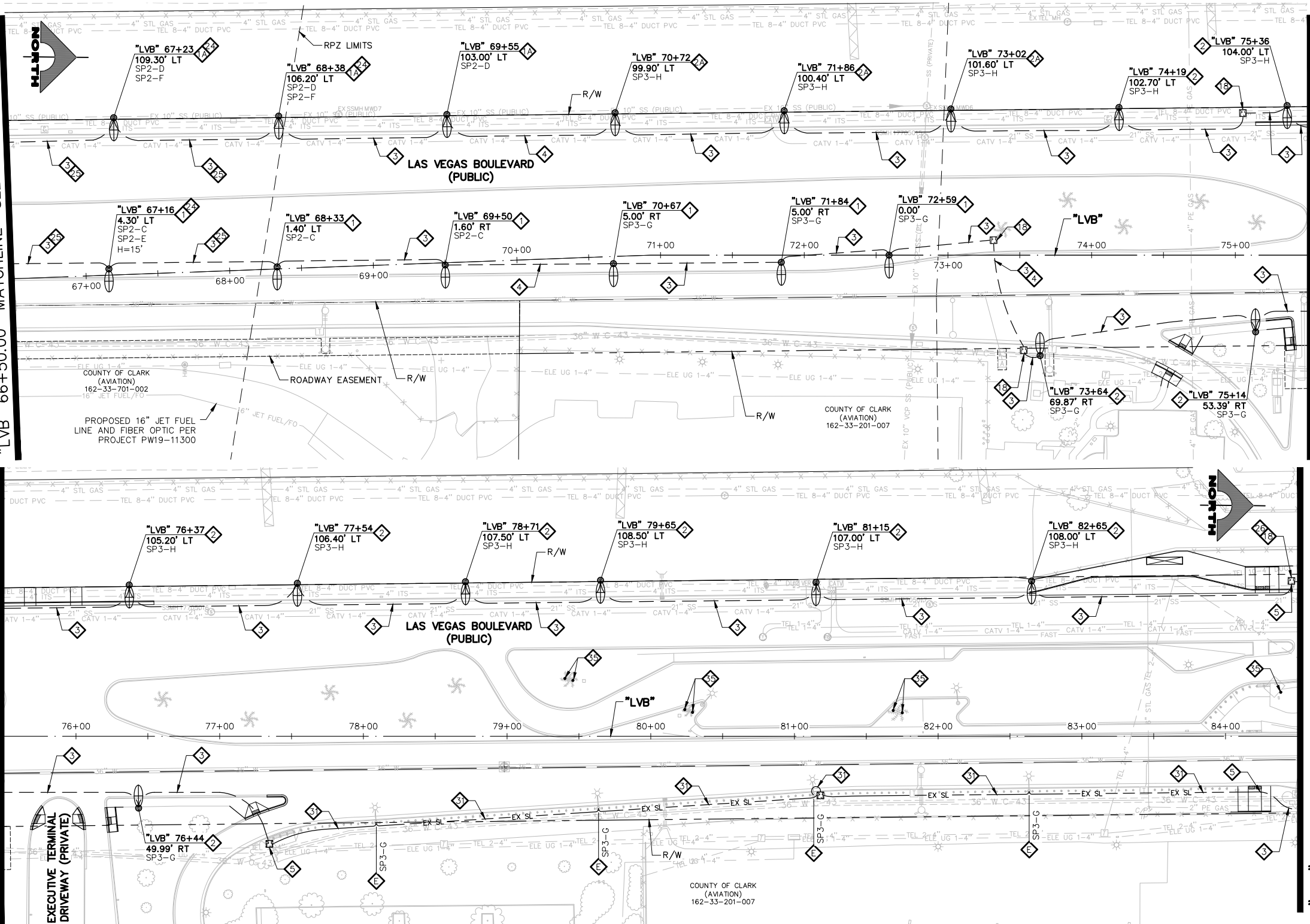
BID NO.: 605718-20

"LVB" 66+50.00 MATCHLINE SEE DRAWING NO. SL-3

SEE BELOW LEFT MATCHLINE "LVB" 75+50.00

SEE ABOVE RIGHT MATCHLINE "LVB" 75+50.00

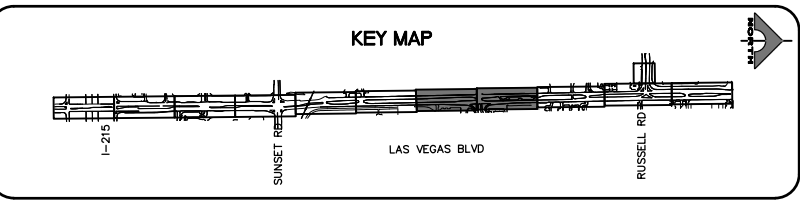
SEE DRAWING NO. SL-5 MATCHLINE "LVB" 84+50.00



- LIGHTING NOTES**
- 1 INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY WITH LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
  - 2 INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY WITH LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 1, DRAWING CDT-12.)
  - 3 INSTALL 11-GAUGE STREET LIGHT ASSEMBLY WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314 AND 321.)
  - 4A INSTALL 11-GAUGE STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314) (SEE DETAIL 1, DRAWING CDT-12.)
  - 5 INSTALL 1 1/4-INCH CONDUIT WITH 2-#4, 1-#8 GND (STREET LIGHT).
  - 6 INSTALL 1 1/4-INCH CONDUIT WITH 1-#8 GND (STREET LIGHT).
  - 7 INTERCEPT AND EXTEND FROM EXISTING CONDUIT OR PULLBOX (NO DIRECT PAYMENT).
  - 8 INSTALL MAIN POWER DUCT BANK. (SEE DETAIL 1, DRAWING CDT-1.)
  - 9 INSTALL PRIMARY POWER LATERAL 'A'. (SEE DETAIL 2, DRAWING CDT-1.)
  - 10 INSTALL PRIMARY POWER LATERAL 'B'. (SEE DETAIL 3, DRAWING CDT-1.)
  - 11 INSTALL SECONDARY POWER LATERAL. (SEE DETAIL 4, DRAWING CDT-1.)
  - 12 INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE. (SEE DETAIL 1, DRAWING CDT-5.) SEE MANHOLE TABLE ON DRAWING SL-6 AND SL-8 FOR LOCATION.
  - 13 INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707).
  - 14 INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706).
  - 15 INSTALL COUNTY-FURNISHED SMART POLE WITH CONTRACTOR-FURNISHED DUAL LUMINAIRES ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 16 INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 17 INSTALL (10) 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 18 INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 19 REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  - 20 INSTALL NO. 3 1/2 PULLBOX (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 705).
  - 21 INSTALL (1) 2-INCH CONDUIT WITH 1-#8 GND.
  - 22 INSTALL COUNTY-FURNISHED SMART POLE (NO LUMINAIRE) ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 23 INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE.
  - 24 INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE. (SEE DETAIL 2, DRAWING CDT-12.)
  - 25 INSTALL RS-1 PULLBOX (NVE).
  - 26 INSTALL DUAL FAA L-810 TYPE A LED OBSTRUCTION LIGHTS. (SEE DETAIL ON DRAWING CDT-11.)
  - 27 INSTALL 2-#4, 1-#8 GND FOR OBSTRUCTION LIGHTING CIRCUIT.
  - 28 REMOVE PULLBOX.
  - 29 STUB AND CAP. SEE DETAIL 4, DRAWING CDT-2.
  - 30 INSTALL 200 OR 400 AMP PAD MOUNT SERVICE PEDESTAL. SIZE NOTED ON PLANS. (SEE DETAILS ON DRAWING CDT-12.) (USDCCA STD. DWG. NO. 331, 332.52 AND 730).
  - 31 MODIFY EXISTING SERVICE PEDESTAL (SEE DRAWING SL-9.)
  - 32 INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN EACH CONDUIT.
  - 33 INSTALL 2-#4, 1-#8 GND IN EXISTING CONDUIT.
  - 34 INSTALL (2) 1 1/4-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. INSTALL (6) 6'x6" COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER". (NDOT STD. PLAN NO. TG-21.)
  - 35 INSTALL (1) 4-INCH PVC POWER CONDUIT (EXTENET).
  - 36 REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
  - 37 EXISTING STREET LIGHT TO REMAIN.
  - 38 NUMBER OF CARRIER POWER CONDUITS. SEE DETAIL 1, DRAWING CDT-1.

**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 1/19/21  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

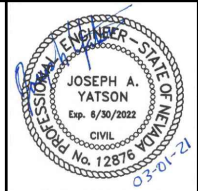


02-26-21 11:48:00

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
**"LVB" 66+50.00 TO "LVB" 84+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



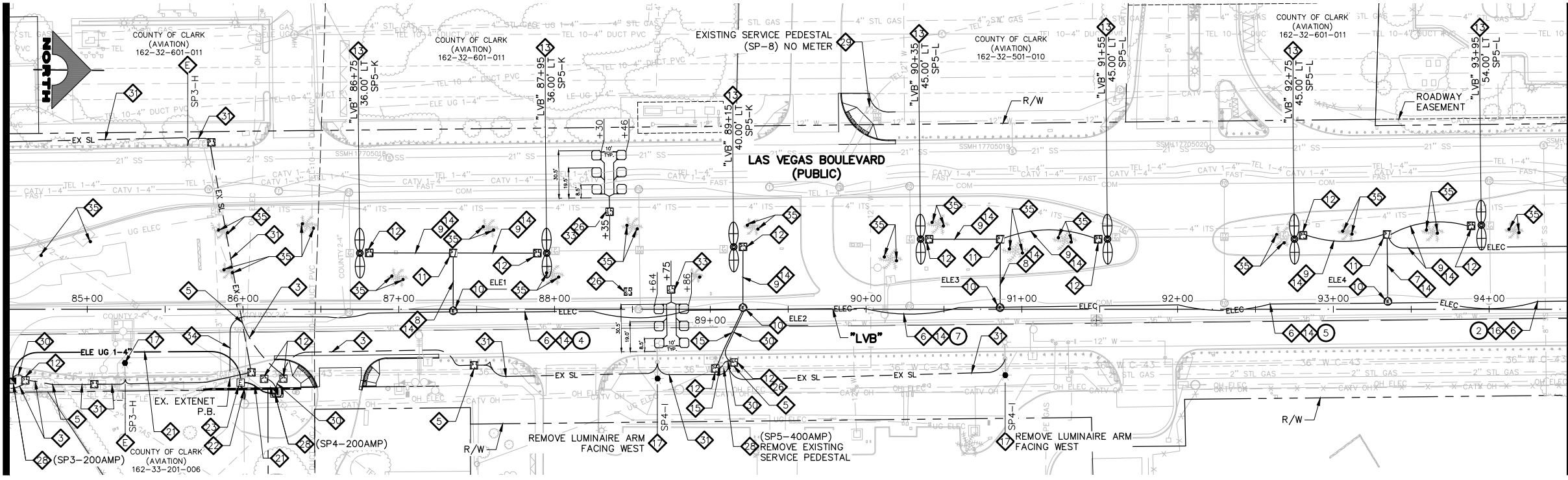
PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS/SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
 DRAWING NO. **SL-4** SHT. 141 OF 159  
 L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

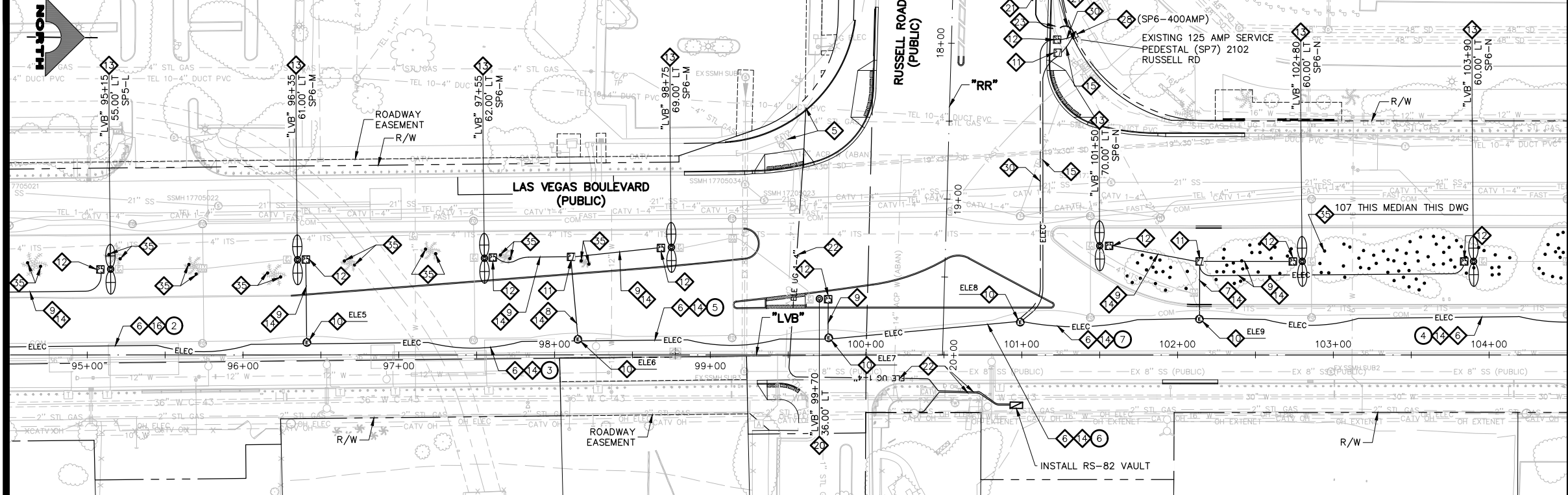


"LVB" 84+50.00 MATCHLINE SEE DRAWING NO. SL-4



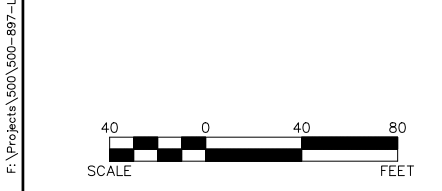
"LVB" 94+50.00 MATCHLINE SEE BELOW LEFT

"LVB" 94+50.00 MATCHLINE SEE ABOVE RIGHT



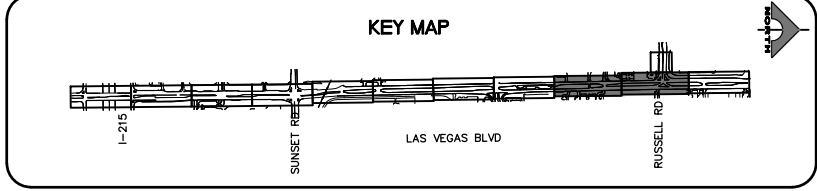
"LVB" 104+50.00 MATCHLINE SEE DRAWING NO. SL-6

- LIGHTING NOTES**
1. INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY. LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
  2. INSTALL 16'-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION. LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 1, DRAWING CDT-12.)
  3. INSTALL 11'-GAUGE STREET LIGHT ASSEMBLY WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314 AND 321.)
  4. INSTALL 11'-GAUGE STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314) (SEE DETAIL 1, DRAWING CDT-12.)
  5. INSTALL 1 1/4"-INCH CONDUIT WITH 2-#4, 1-#8 GND (STREET LIGHT).
  6. INSTALL 1 1/4"-INCH CONDUIT WITH 1-#8 GND (STREET LIGHT).
  7. INTERCEPT AND EXTEND FROM EXISTING CONDUIT OR PULLBOX (NO DIRECT PAYMENT).
  8. INSTALL MAIN POWER DUCT BANK. (SEE DETAIL 1, DRAWING CDT-1.)
  9. INSTALL PRIMARY POWER LATERAL 'A'. (SEE DETAIL 2, DRAWING CDT-1.)
  10. INSTALL PRIMARY POWER LATERAL 'B'. (SEE DETAIL 3, DRAWING CDT-1.)
  11. INSTALL SECONDARY POWER LATERAL. (SEE DETAIL 4, DRAWING CDT-1.)
  12. INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE. (SEE DETAIL 1, DRAWING CDT-5.) SEE MANHOLE TABLE ON DRAWING SL-6 AND SL-8 FOR LOCATION.
  13. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707).
  14. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706).
  15. INSTALL COUNTY-FURNISHED SMART POLE WITH CONTRACTOR-FURNISHED DUAL LUMINAIRE ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  16. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT.
  17. INSTALL (10) 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  18. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT.
  19. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  20. INSTALL NO. 3 1/2 PULLBOX (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 705).
  21. INSTALL (1) 2-INCH CONDUIT WITH 1-#8 GND.
  22. INSTALL COUNTY-FURNISHED SMART POLE (NO LUMINAIRE) ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  23. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE.
  24. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE. (SEE DETAIL 2, DRAWING CDT-12.)
  25. INSTALL RS-1 PULLBOX (NVE).
  26. INSTALL DUAL FAA L-810 TYPE A LED OBSTRUCTION LIGHTS. (SEE DETAIL ON DRAWING CDT-11.)
  27. INSTALL 2-#4, 1-#8 GND FOR OBSTRUCTION LIGHTING CIRCUIT.
  28. REMOVE PULLBOX.
  29. STUB AND CAP. SEE DETAIL 4, DRAWING CDT-2.
  30. INSTALL 200 OR 400 AMP PAD MOUNT SERVICE PEDESTAL. SIZE NOTED ON PLANS. (SEE DETAILS ON DRAWING CDT-12.) (USDCCA STD. DWG. NO. 331, 332.52 AND 730.)
  31. MODIFY EXISTING SERVICE PEDESTAL (SEE DRAWING SL-9.)
  32. INSTALL (2) 1 1/4"-INCH CONDUITS WITH 2-#4, 1-#8 GND IN EACH CONDUIT.
  33. INSTALL 2-#4, 1-#8 GND IN EXISTING CONDUIT.
  34. INSTALL (2) 1 1/4"-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  35. INSTALL (6) 6"x6" COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER". (NDOT STD. PLAN NO. TG-21.)
  36. INSTALL (1) 4-INCH PVC POWER CONDUIT (EXTENET).
  37. REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
  38. EXISTING STREET LIGHT TO REMAIN.
  39. NUMBER OF CARRIER POWER CONDUITS. (SEE DETAIL 1, DRAWING CDT-1.)



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 1/19/21  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



**CLARK COUNTY WATER RECLAMATION DISTRICT**

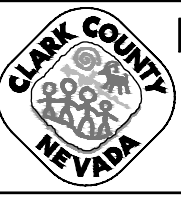
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 20.793

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

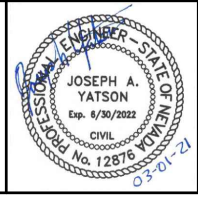
**FAST**  
Call before you UnderGround.  
1-702-432-5300  
FIREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig  
Avoid cutting underground utility lines. It's costly. It's costly.  
Call 811  
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
**"LVB" 84+50.00 TO "LVB" 104+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



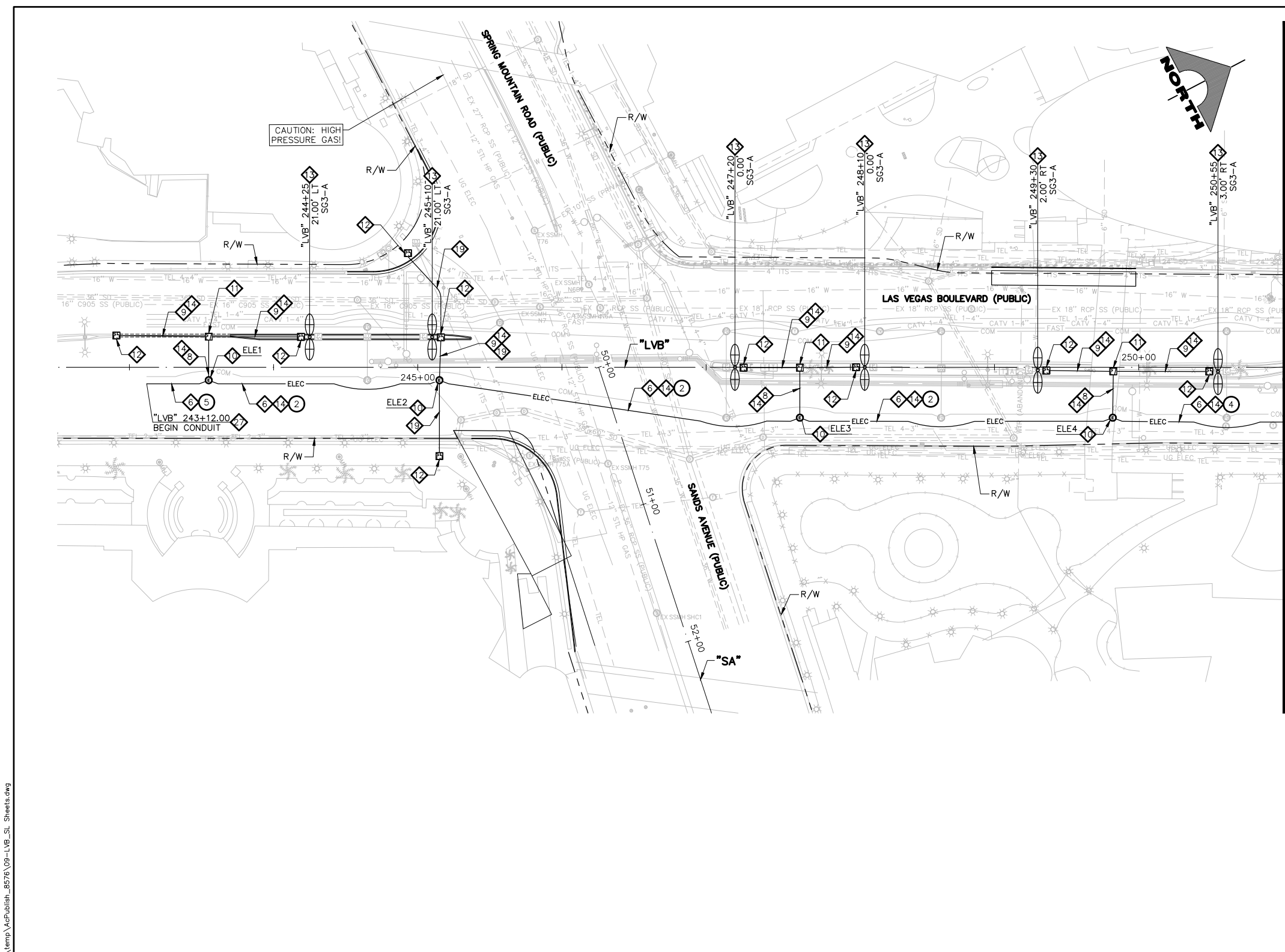
PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	SL-5
VERT: NONE	SHT. 142 OF 159
FIELD BOOK	L-2272







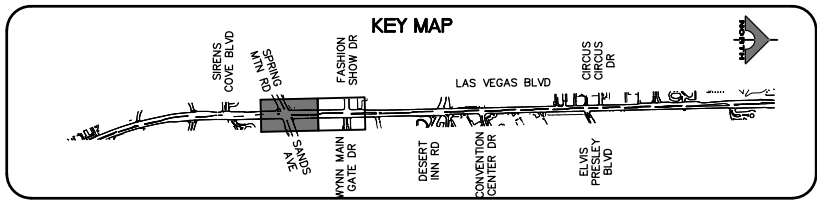
"LVB" 251+00.00 MATCHLINE SEE DRAWING NO. SL-8

- LIGHTING NOTES**
- 1 INSTALL 16-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY. LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
  - 1A INSTALL 16-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION. LUMINAIRE (HOLOPHANE MODEL #MGLED-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLED US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 1, DRAWING CDT-12.)
  - 2 INSTALL 11-GAUGE STREET LIGHT ASSEMBLY WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314 AND 321.)
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  - 3 INSTALL 1 1/4-INCH CONDUIT WITH 2-#4, 1-#8 GND (STREET LIGHT).
  - 4 INSTALL 1 1/4-INCH CONDUIT WITH 1-#8 GND (STREET LIGHT).
  - 5 INTERCEPT AND EXTEND FROM EXISTING CONDUIT OR PULLBOX (NO DIRECT PAYMENT).
  - 6 INSTALL MAIN POWER DUCT BANK. (SEE DETAIL 1, DRAWING CDT-1.)
  - 7 INSTALL PRIMARY POWER LATERAL 'A'. (SEE DETAIL 2, DRAWING CDT-1.)
  - 8 INSTALL PRIMARY POWER LATERAL 'B'. (SEE DETAIL 3, DRAWING CDT-1.)
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  - 13 INSTALL COUNTY-FURNISHED SMART POLE WITH CONTRACTOR-FURNISHED DUAL LUMINAIRES ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 14 INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 15 INSTALL (10) 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 16 INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 17 REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  - 18 INSTALL NO. 3 1/2 PULLBOX (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 705).
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  - 20 INSTALL COUNTY-FURNISHED SMART POLE (NO LUMINAIRE) ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
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  - 26 REMOVE PULLBOX.
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  - 33 INSTALL (6) 6'x6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER". (NDOT STD. PLAN NO. TG-21.)
  - 34 INSTALL (1) 4-INCH PVC POWER CONDUIT (EXTENET).
  - 35 REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
  - E EXISTING STREET LIGHT TO REMAIN.
  - XX NUMBER OF CARRIER POWER CONDUITS. SEE DETAIL 1, DRAWING CDT-1.

**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

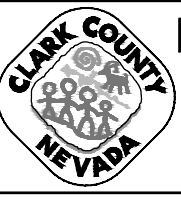
**APPROVED FOR CONSTRUCTION**  
 SIGNED BY MIKE DISHARI ON 12/30/20  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



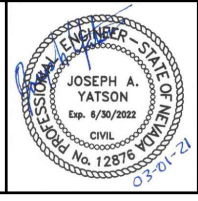
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
**"LVB" 251+00.00 TO "LVB" 258+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



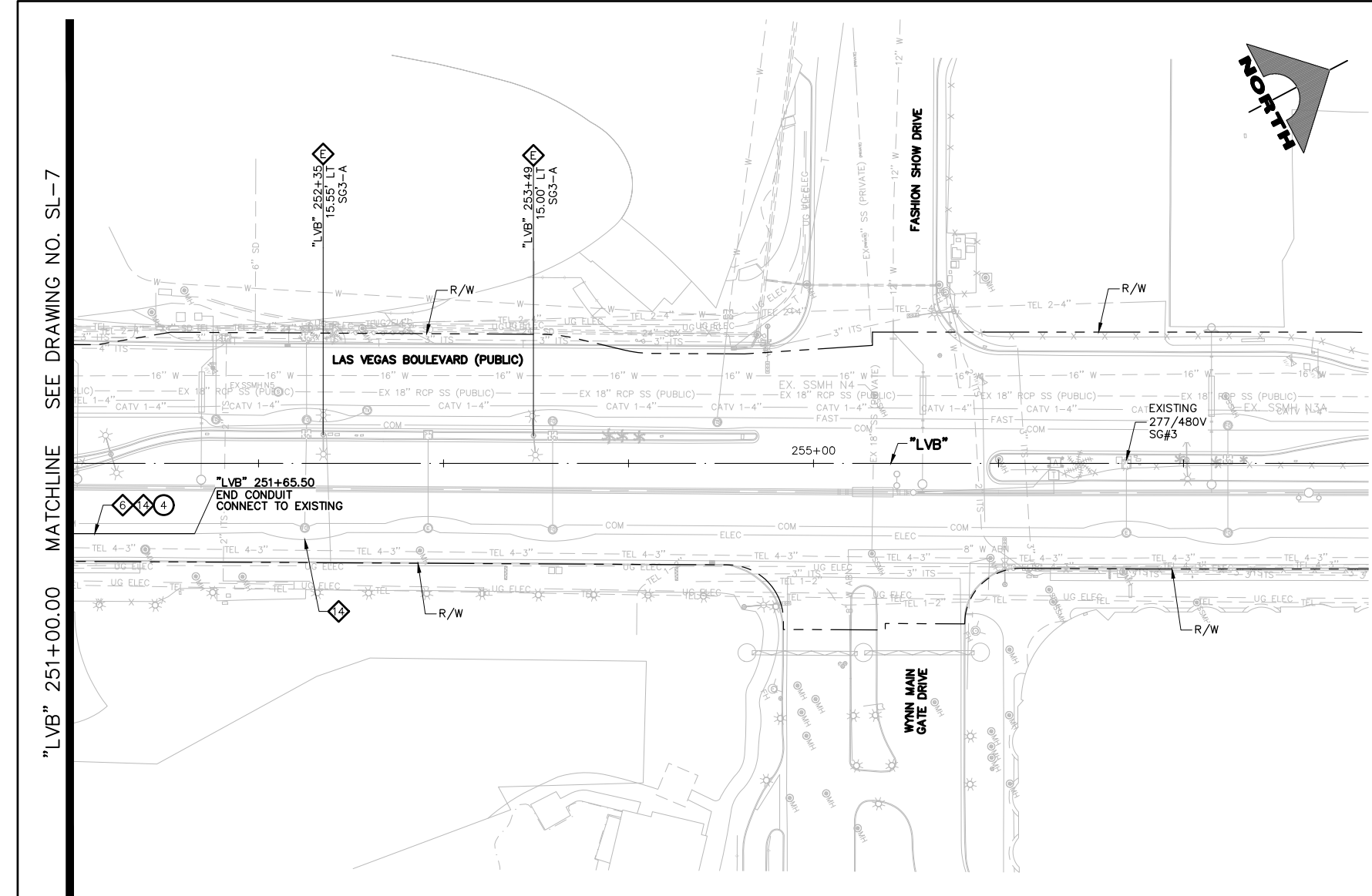
PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
 DRAWING NO. **SL-7**  
 SHT. 144 OF 159  
 L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
 BID NO.: 605718-20





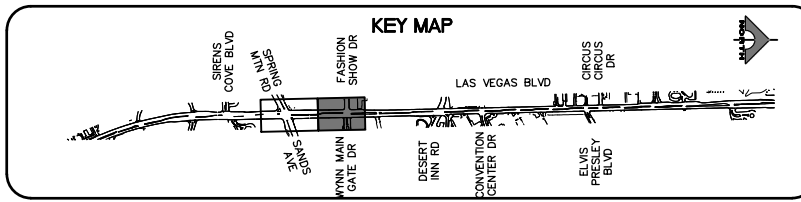
"LVB" 251+00.00 MATCHLINE SEE DRAWING NO. SL-7

4'X4' TRAFFIC RATED ELECTRICAL MANHOLE TABLE	
ID	STATION & OFFSET
ELE1	"LVB" 243+55.00, 9.00 RT
ELE2	"LVB" 245+15.00, 9.00 RT
ELE3	"LVB" 247+65.00, 35.00 RT
ELE4	"LVB" 249+82.00, 35.00 RT



**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 48 HOURS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
SIGNED BY MIKE DISHARI ON 12/30/20  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 137390 FIRST APPROVED DATE: 12/30/20



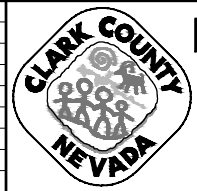
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY SIGNED BY CHRISTIAN KESSLER ON 11/12/20 DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 20.793**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



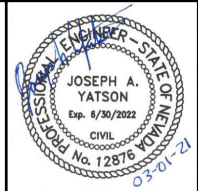
- LIGHTING NOTES**
- 1 INSTALL 16-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY. LUMINAIRE (HOLOPHANE MODEL #MGLD-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLD US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 4, DRAWING CDT-12.)
  - 1A INSTALL 16-FOOT (UNLESS OTHERWISE NOTED) STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION. LUMINAIRE (HOLOPHANE MODEL #MGLD-P5-40K-MVOLT-WR-HT-MA-GRSD-MGLD US GRSD OR APPROVED EQUAL). LUMINAIRES WITH NARROW OPTICS ARE NOTED ON PLAN. (SEE DETAIL 1, DRAWING CDT-12.)
  - 2 INSTALL 11-GAUGE STREET LIGHT ASSEMBLY WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314 AND 321).
  - 2A INSTALL 11-GAUGE STREET LIGHT ASSEMBLY ON SPREAD FOUNDATION WITH LUMINAIRE MODEL EATON/COOPER PDR95488-VERD-G-CO2H-D-U-T4-AP-10MSP-HA-AP OR APPROVED EQUAL. (USDCCA STD. DWG. NO. 314) (SEE DETAIL 1, DRAWING CDT-12).
  - 3 INSTALL 1 1/4-INCH CONDUIT WITH 2-#4, 1-#8 GND (STREET LIGHT).
  - 4 INSTALL 1 1/4-INCH CONDUIT WITH 1-#8 GND (STREET LIGHT).
  - 5 INTERCEPT AND EXTEND FROM EXISTING CONDUIT OR PULLBOX (NO DIRECT PAYMENT).
  - 6 INSTALL MAIN POWER DUCT BANK. (SEE DETAIL 1, DRAWING CDT-1.)
  - 7 INSTALL PRIMARY POWER LATERAL 'A'. (SEE DETAIL 2, DRAWING CDT-1.)
  - 8 INSTALL PRIMARY POWER LATERAL 'B'. (SEE DETAIL 3, DRAWING CDT-1.)
  - 9 INSTALL SECONDARY POWER LATERAL. (SEE DETAIL 4, DRAWING CDT-1.)
  - 10 INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE. (SEE DETAIL 1, DRAWING CDT-5.) SEE MANHOLE TABLE ON DRAWING SL-6 AND SL-8 FOR LOCATION.
  - 11 INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707).
  - 12 INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706).
  - 13 INSTALL COUNTY-FURNISHED SMART POLE WITH CONTRACTOR-FURNISHED DUAL LUMINAIRES ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 14 INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 15 INSTALL (10) 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 16 INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT.
  - 17 REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  - 18 INSTALL NO. 3 1/2 PULLBOX (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 705).
  - 19 INSTALL (1) 2-INCH CONDUIT WITH 1-#8 GND.
  - 20 INSTALL COUNTY-FURNISHED SMART POLE (NO LUMINAIRE) ON CONTRACTOR-PROVIDED FOUNDATION. (SEE DETAILS ON DRAWING CDT-9.)
  - 21 INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE.
  - 22 INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE. (SEE DETAIL 2, DRAWING CDT-12.)
  - 23 INSTALL RS-1 PULLBOX (NVE).
  - 24 INSTALL DUAL FAA L-810 TYPE A LED OBSTRUCTION LIGHTS. (SEE DETAIL ON DRAWING CDT-11.)
  - 25 INSTALL 2-#4, 1-#8 GND FOR OBSTRUCTION LIGHTING CIRCUIT.
  - 26 REMOVE PULLBOX.
  - 27 STUB AND CAP. SEE DETAIL 4, DRAWING CDT-2.
  - 28 INSTALL 200 OR 400 AMP PAD MOUNT SERVICE PEDESTAL. SIZE NOTED ON PLANS. (SEE DETAILS ON DRAWING CDT-12.) (USDCCA STD. DWG. NO. 331, 332.52 AND 730).
  - 29 MODIFY EXISTING SERVICE PEDESTAL (SEE DRAWING SL-9.)
  - 30 INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN EACH CONDUIT.
  - 31 INSTALL 2-#4, 1-#8 GND IN EXISTING CONDUIT.
  - 32 INSTALL (2) 1 1/4-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT.
  - 33 INSTALL (6) 6'X6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER". (NDOT STD. PLAN NO. TG-21).
  - 34 INSTALL (1) 4-INCH PVC POWER CONDUIT (EXTENET).
  - 35 REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
  - E EXISTING STREET LIGHT TO REMAIN.
  - XX NUMBER OF CARRIER POWER CONDUITS. SEE DETAIL 1, DRAWING CDT-1.

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**STREET LIGHTING/ELECTRICAL PLAN**  
**"LVB" 251+00.00 TO "LVB" 258+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK  
DRAWING NO. **SL-8** SHT. 145 OF 159  
L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



**SP1 – EXISTING 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 47+02, RT. – NE CORNER OF SUNSET)(SEE DWG SL-2)(MTR#:BB132005623)

VERIFY AND/OR MODIFY TO INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – CIRCUITS "A" & "B")  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTORS (STREET LIGHTING – CIRCUITS "A" & "B")  
 ONE (1) 15 AMP, 120 V., 2-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)  
 EIGHT (8) 30 AMP, 120 V., 1-POLE BREAKERS (INTERSECTION LIGHTING)

CIRCUIT NAME:	CIRCUIT A		CIRCUIT B	
CIRCUIT TYPE:	STREET LIGHTING		STREET LIGHTING	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48	
EXISTING CIRCUIT LOAD AMPS =	0		0	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
122 WATT SINGLE LUMINAIRES AT 240V = 0.51 AMPS	0	0	0	0
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	3	5.55	4	7.40
EXISTING PLUS PROPOSED LOAD AMPS =	5.55		7.40	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	42.45		40.60	

**SP2 – EXISTING 125 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 59+01, LT.)(SEE DWG SL-3)(MTR#:CC034851749)

VERIFY AND/OR MODIFY TO INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – CIRCUITS "C", "D")  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTORS (STREET LIGHTING – CIRCUITS "C", "D")  
 ONE (1) 15 AMP, 120 V., 2-POLE BREAKER (PHOTOCELL CONTROL)

CIRCUIT NAME:	CIRCUIT C		CIRCUIT D	
CIRCUIT TYPE:	STREET LIGHTING		STREET LIGHTING	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48	
EXISTING CIRCUIT LOAD AMPS =	0		0	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
122 WATT SINGLE LUMINAIRES AT 240V = 0.51 AMPS	0	0	0	0
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	19	35.15	19	35.15
EXISTING PLUS PROPOSED LOAD AMPS =	35.15		35.15	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	12.85		12.85	

**SP3 – NEW 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 84+52, RT.)(SEE DWG SL-5)

INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – CIRCUITS "G" & "H")  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTORS (STREET LIGHTING – CIRCUITS "G" & "H")  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)  
 ONE (1) 20 AMP, 120 V., 1-POLE BREAKER (ITS)  
 ONE (1) 30 AMP, 120 V., 1-POLE BREAKER (INTERSECTION LIGHTING)

CIRCUIT NAME:	CIRCUIT G		CIRCUIT H	
CIRCUIT TYPE:	STREET LIGHTING		STREET LIGHTING	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48	
EXISTING CIRCUIT LOAD AMPS =	0		0	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
122 WATT SINGLE LUMINAIRES AT 240V = 0.51 AMPS	7	3.57	13	6.63
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	3	5.55	0	0
EXISTING PLUS PROPOSED LOAD AMPS =	9.12		6.63	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	38.88		41.37	

**SP4 – NEW 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 86+21, RT.)(SEE DWG SL-5)

INCLUDE THE FOLLOWING:  
 ONE (1) 125 AMP, 240 V., 2-POLE BREAKER (WELCOME SIGN)  
 ONE (1) 20 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING – CIRCUIT "I")  
 ONE (1) 20 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "I")  
 THREE (3) 20 AMP, 120 V., 2-POLE BREAKERS (LANDSCAPE LIGHTING)  
 THREE (3) 20 AMP, 120 V., 2-POLE CONTACTORS (LANDSCAPE LIGHTING)  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)

CIRCUIT NAME:	CIRCUIT I	
CIRCUIT TYPE:	STREET LIGHTING	
VOLTAGE:	240	
CIRCUIT CAPACITY:	20	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	16	
EXISTING CIRCUIT LOAD AMPS =	0	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS
122 WATT SINGLE LUMINAIRES AT 240V = 0.51 AMPS	2	1.02
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0	0
EXISTING PLUS PROPOSED LOAD AMPS =	1.02	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	14.98	

**SP5 – NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 89+09, RT.)(SEE DWG SL-2)(MTR#:BB111483154)

INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – CIRCUITS "K" & "L")  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTORS (STREET LIGHTING – CIRCUITS "K" & "L")  
 ONE (1) 15 AMP, 120 V., 2-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 20 AMP, 240 V., 1-POLE BREAKER (EXTENET)  
 EIGHT (8) 30 AMP, 240 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT K		CIRCUIT L	
CIRCUIT TYPE:	STREET LIGHTING		STREET LIGHTING	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	30		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24		24	
EXISTING CIRCUIT LOAD AMPS =	0		0	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
122 WATT DUAL LUMINAIRES AT 240V = 1.02 AMPS	3	3.06	5	5.10
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0	0	0	0
EXISTING PLUS PROPOSED LOAD AMPS =	3.06		5.10	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	20.94		18.90	

**SP6 – NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("RR" 17+93, LT.)(SEE DWG SL-5)

INCLUDE THE FOLLOWING:  
 TWO (2) 30 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – CIRCUITS "M" & "N")  
 TWO (2) 30 AMP, 240 V., 2-POLE CONTACTORS (STREET LIGHTING – CIRCUITS "M" & "N")  
 ONE (1) 15 AMP, 120 V., 2-POLE BREAKER (PHOTOCELL CONTROL)  
 NINE (9) 30 AMP, 240 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT M		CIRCUIT N	
CIRCUIT TYPE:	STREET LIGHTING		STREET LIGHTING	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	30		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24		24	
EXISTING CIRCUIT LOAD AMPS =	0		0	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
122 WATT SINGLE LUMINAIRES AT 240V = 0.51 AMPS	6	3.66	10	6.10
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0	0	0	0
EXISTING PLUS PROPOSED LOAD AMPS =	3.66		6.10	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	44.34		41.90	

**SP7 – EXISTING 125 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("RR" 17+97, LT.)(SEE DWG SL-5)(MTR#:BB135055375)

VERIFY AND/OR MODIFY TO INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (EXISTING CIRCUITS)  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTORS (EXISTING CIRCUITS)  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)  
 FIVE (5) 30 AMP, 120 V., 1-POLE BREAKERS (INTERSECTION LIGHTING)

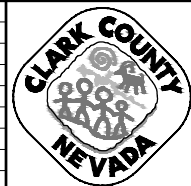
**SP8 – EXISTING PADMOUNT SERVICE PEDESTAL (EMERGENCY SIGNAL)**  
 ("LVB" 90+02, LT.)(SEE DWG SL-5)(NO METER)  
 MAINTAIN EXISTING BREAKERS.

**SG3 – EXISTING 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR**  
 ("LVB" 256+70, LT.)(SEE DWG SL-8)(MTR#:AA016927699)

VERIFY AND/OR MODIFY TO INCLUDE THE FOLLOWING:  
 TWO (2) 20 AMP, 277 V., 2-POLE BREAKERS (STREET LIGHTING – CIRCUITS "A" & "B")  
 TWO (2) 20 AMP, 277 V., 2-POLE CONTACTORS (STREET LIGHTING – CIRCUITS "A" & "B")  
 ONE (1) 15 AMP, 277 V., 2-POLE BREAKER (PHOTOCELL CONTROL)

CIRCUIT NAME:	CIRCUIT A		CIRCUIT B	
CIRCUIT TYPE:	STREET LIGHTING		STREET LIGHTING	
VOLTAGE:	240		240	
CIRCUIT CAPACITY:	20		20	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	16		16	
EXISTING CIRCUIT LOAD AMPS =	2.04		12.20	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS
122 WATT DUAL LUMINAIRES AT 277V = 1.02 AMPS	6	6.12	0	0
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0	0	0	0
EXISTING PLUS PROPOSED LOAD AMPS =	8.16		12.20	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	7.84		3.80	

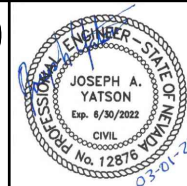
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**CIRCUIT CAPACITY VERIFICATIONS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



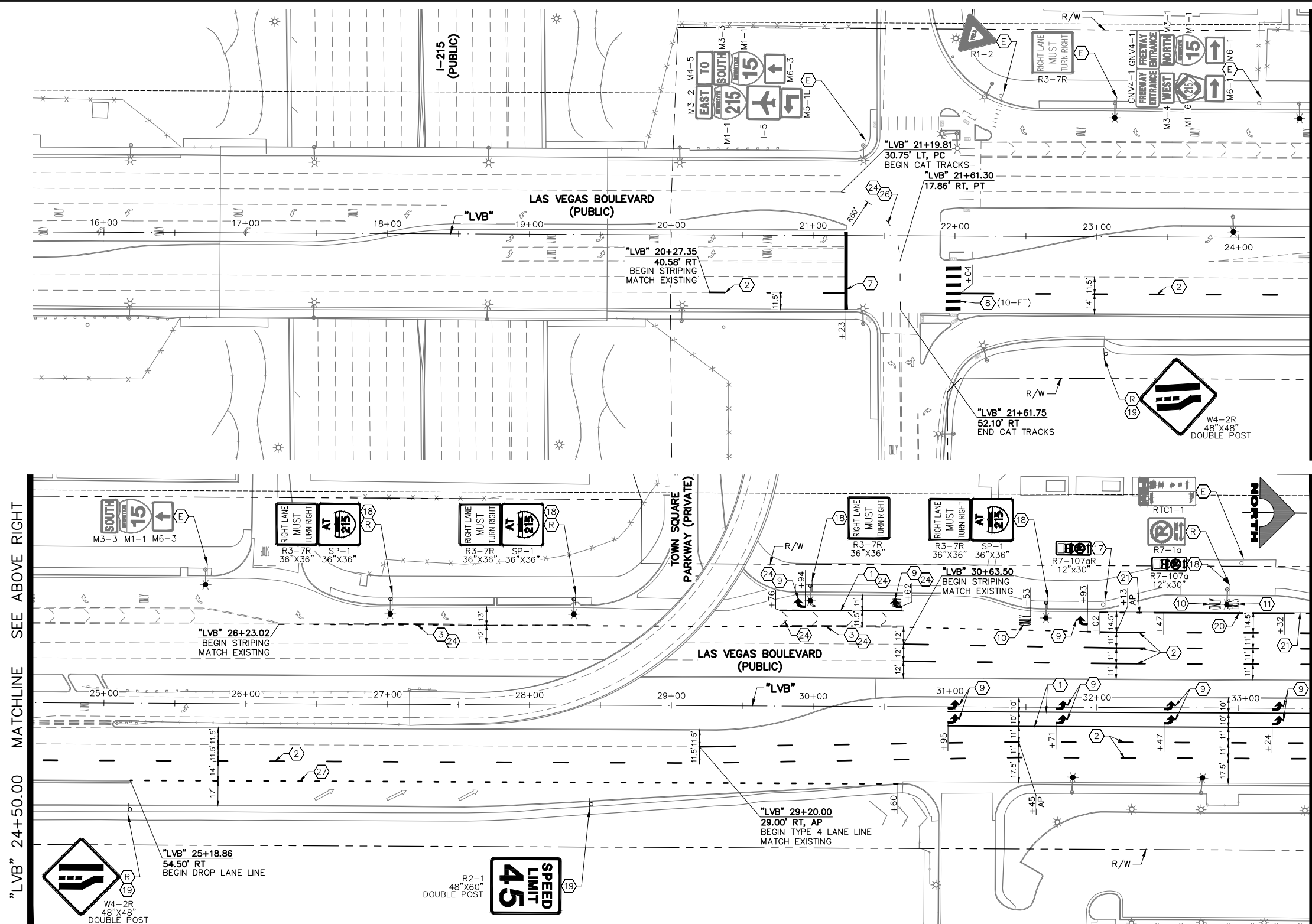
PROJECT No: 500-897-LV DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>SL-9</b>
VERT: NONE	SHT. 146 OF 159
FIELD BOOK	
	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

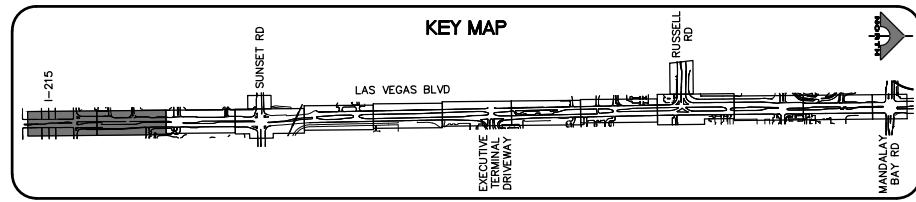
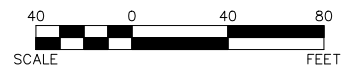
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
  - 9 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 12 LANE TRANSITION (RPM/PPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 13 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 14 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 15 WHITE PAVEMENT RAILROAD CROSSING LEGEND (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. RC-1)
  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
  - 17 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 18 INSTALL NEW SIGN(S) (STREET LIGHT MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 19 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 20 8-INCH SOLID WHITE LINE (PPM)
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  - 22 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 23 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 24 REMOVE EXISTING STRIPING/MARKINGS
  - 25 WHITE PAVEMENT "KEEP CLEAR" (PREMARK THERMOPLASTIC) (SEE DETAIL 8, DWG. ST-8)
  - 26 CAT TRACKS DELINEATION (RPM) (SEE DETAIL 3, DWG. ST-8)
  - 27 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWINGS ST-9 AND ST-10 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD. STOP SIGNS AND STREET NAME SIGNS SHALL BE REMOVED AT THE TIME OF SIGNAL ACTIVATION.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. SIGNS INSTALLED IN MEDIAN SHALL BE LOCATED TO PROVIDE 2' CLEAR FROM SIGN EDGE TO CURB FACE.
  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



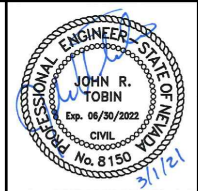
**CALL BEFORE YOU DO OVERHEAD**  
 1-702-227-2929

**FAST**  
**Call before you Dig UnderGround.**  
 1-702-432-5300  
 FREEMAN AND AERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.  
**Call 811**  
 1-800-227-2600



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
 "LVB" 15+50.00 TO "LVB" 33+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

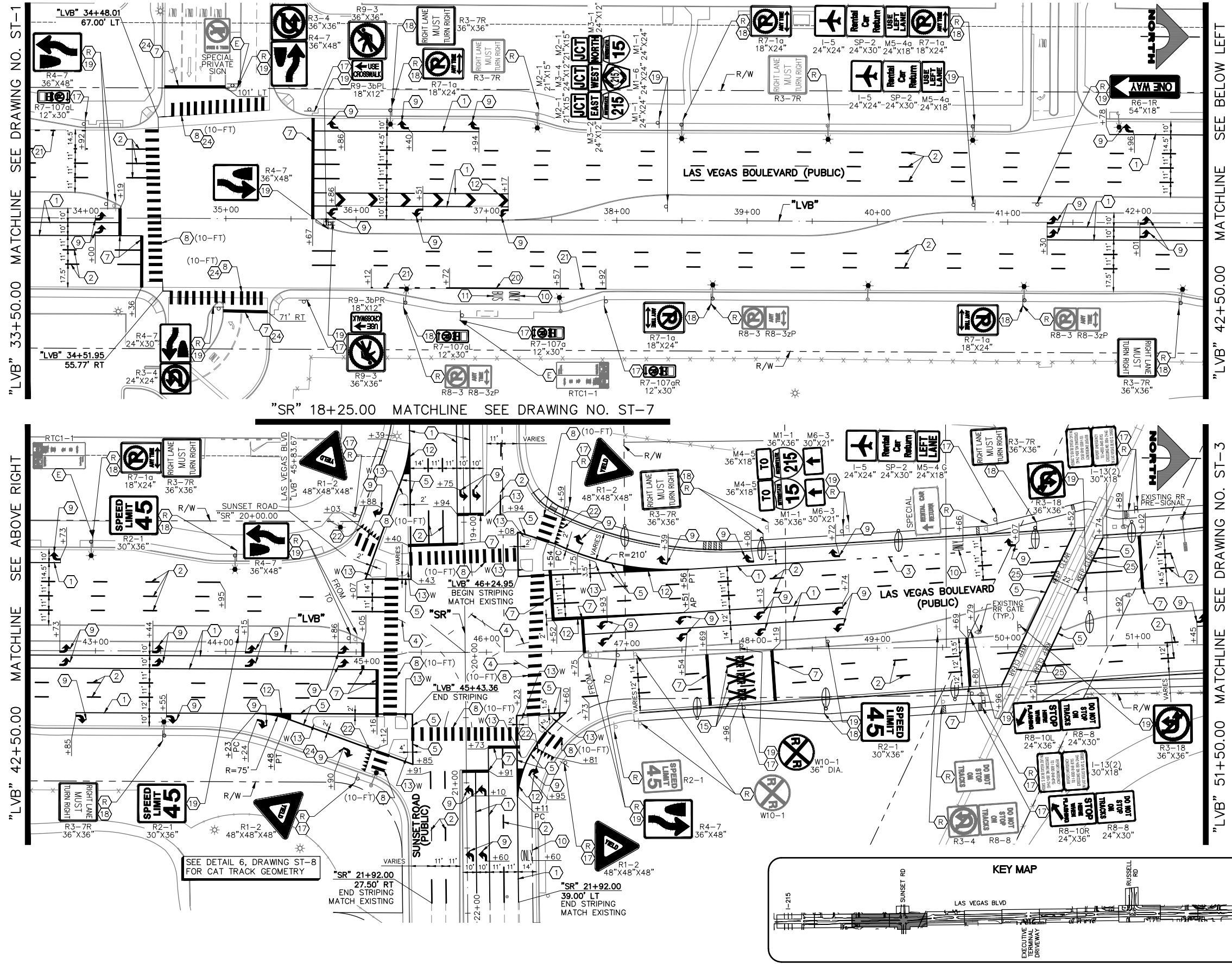
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-1</b>
VERT: NONE	SHT. 147 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

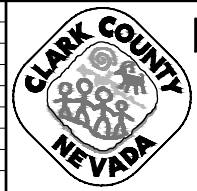
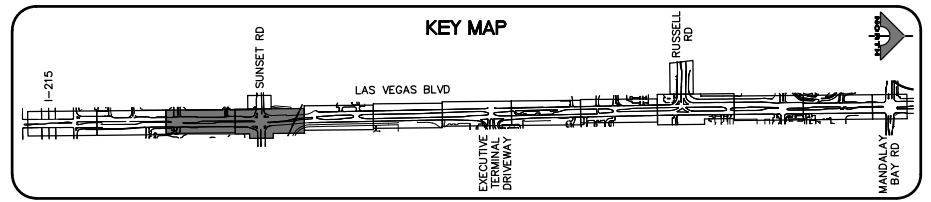


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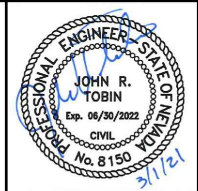


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  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
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  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
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  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
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  7. SIGNS INSTALLED IN MEDIAN SHALL BE LOCATED TO PROVIDE 2' CLEAR FROM SIGN EDGE TO CURB FACE.
  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
 "LVB" 33+50.00 TO "LVB" 51+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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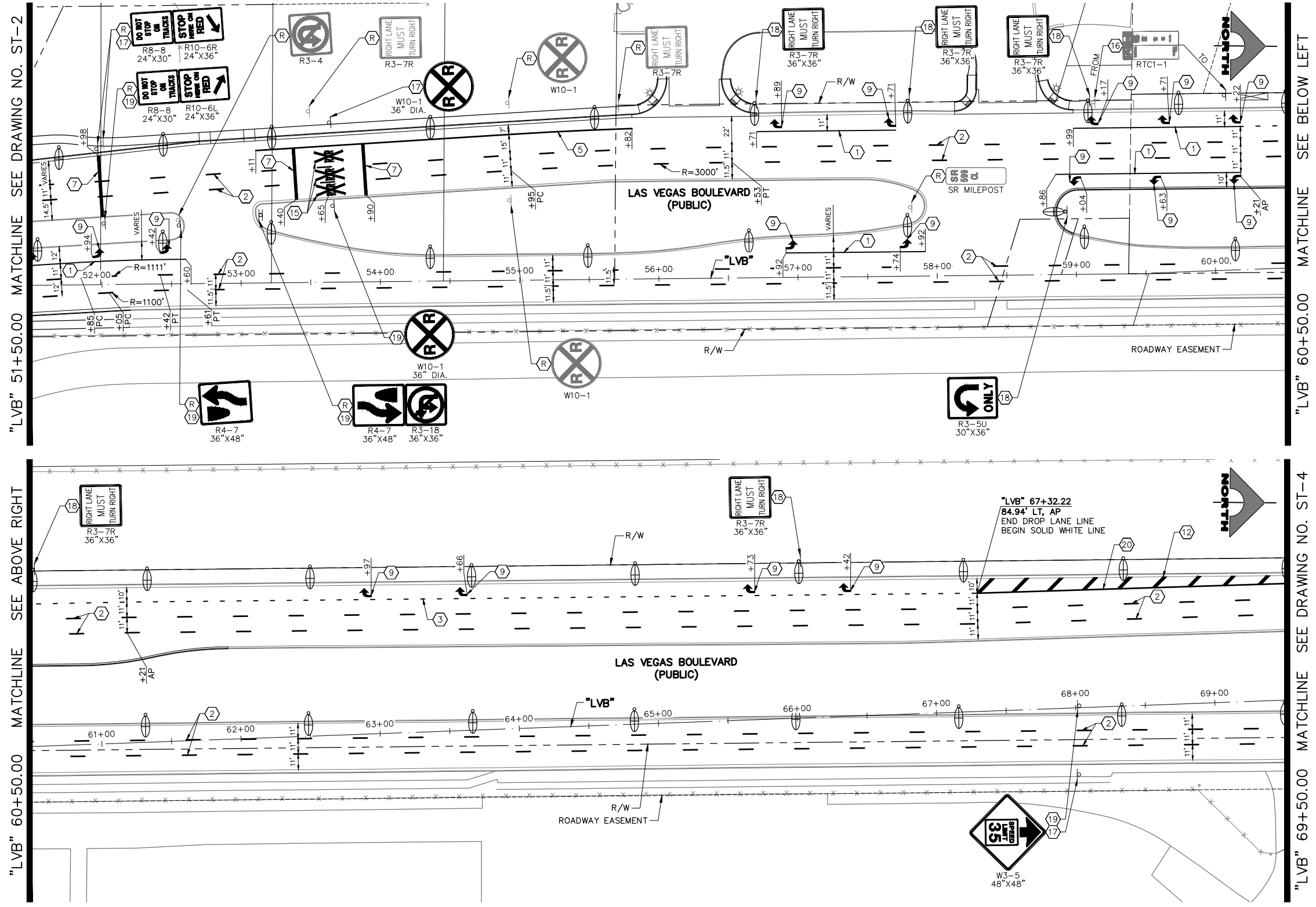
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-2</b>
VERT: NONE	SHT. 148 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

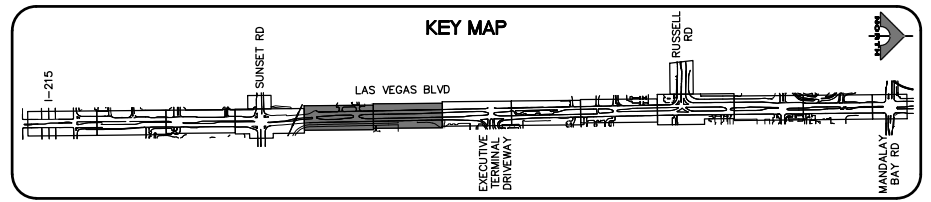
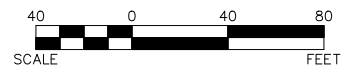


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  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

Call before you Dig

**UnderGround.**

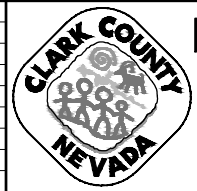
1-702-432-5300

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig

811

1-800-227-2600

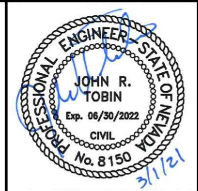


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

### SIGNING AND STRIPING PLAN

#### "LVB" 51+50.00 TO "LVB" 69+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

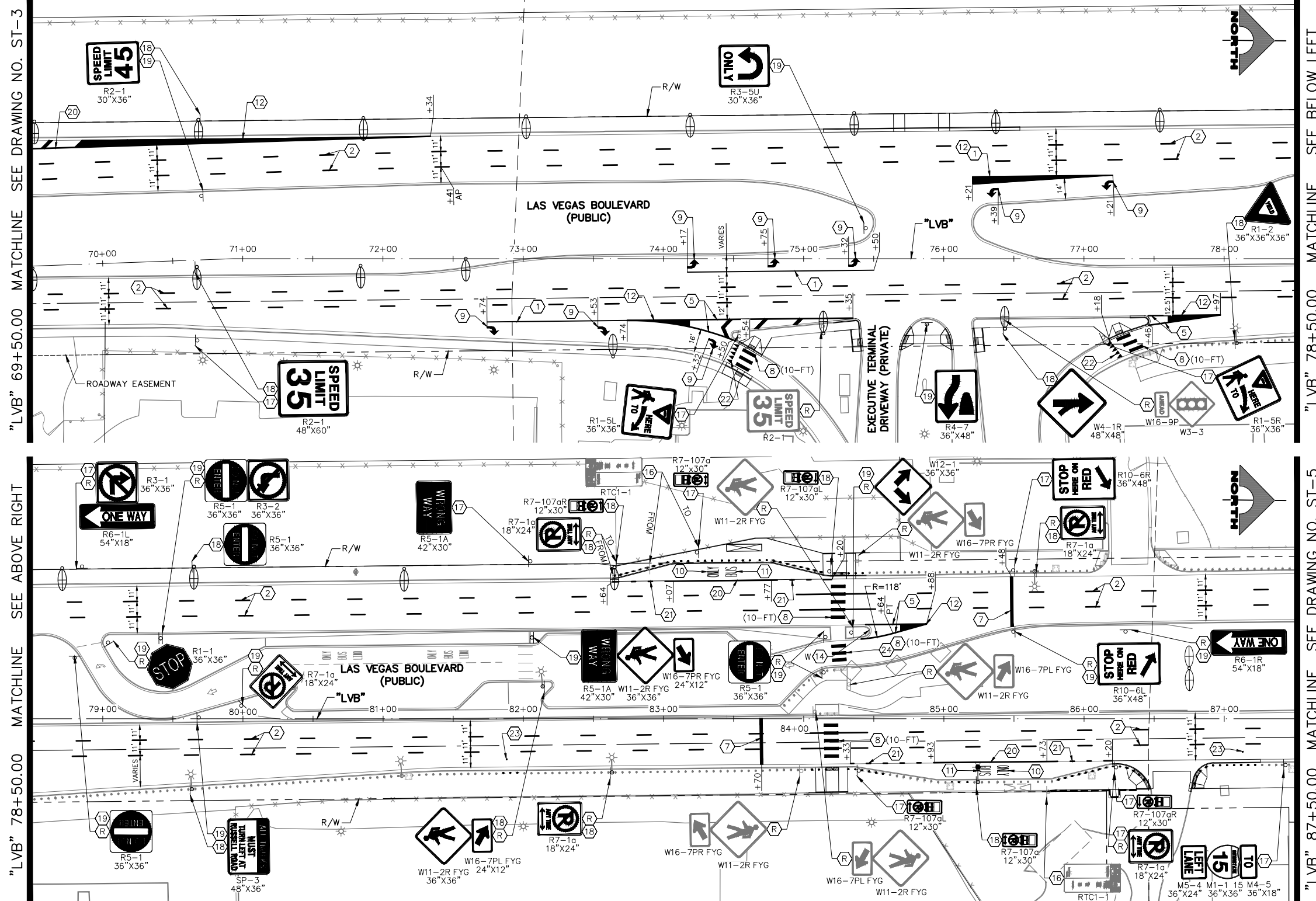
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-3</b>
VERT: NONE	SHT. 149 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

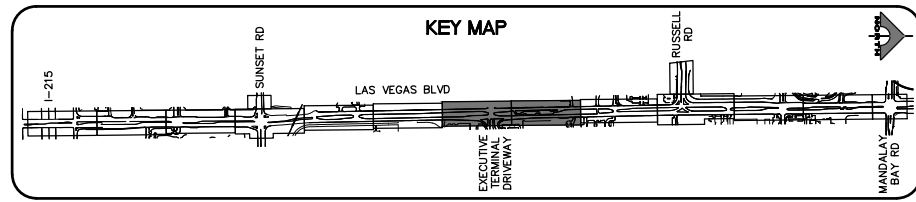
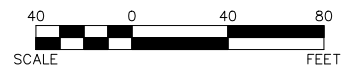
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

F:\Projects\500\500-897-LV\DWG\Production\Phase B\LV\_LVB\_ST Sheets.dwg



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1-702-227-2929

**FAST**

Call before you UnderGround.

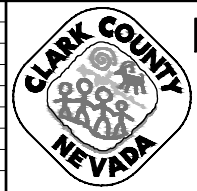
1-702-432-5300

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

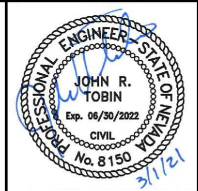
Call before you Dig

Call 811

1-800-227-2600



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
**"LVB" 69+50.00 TO "LVB" 87+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS \ SURVEYORS

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LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

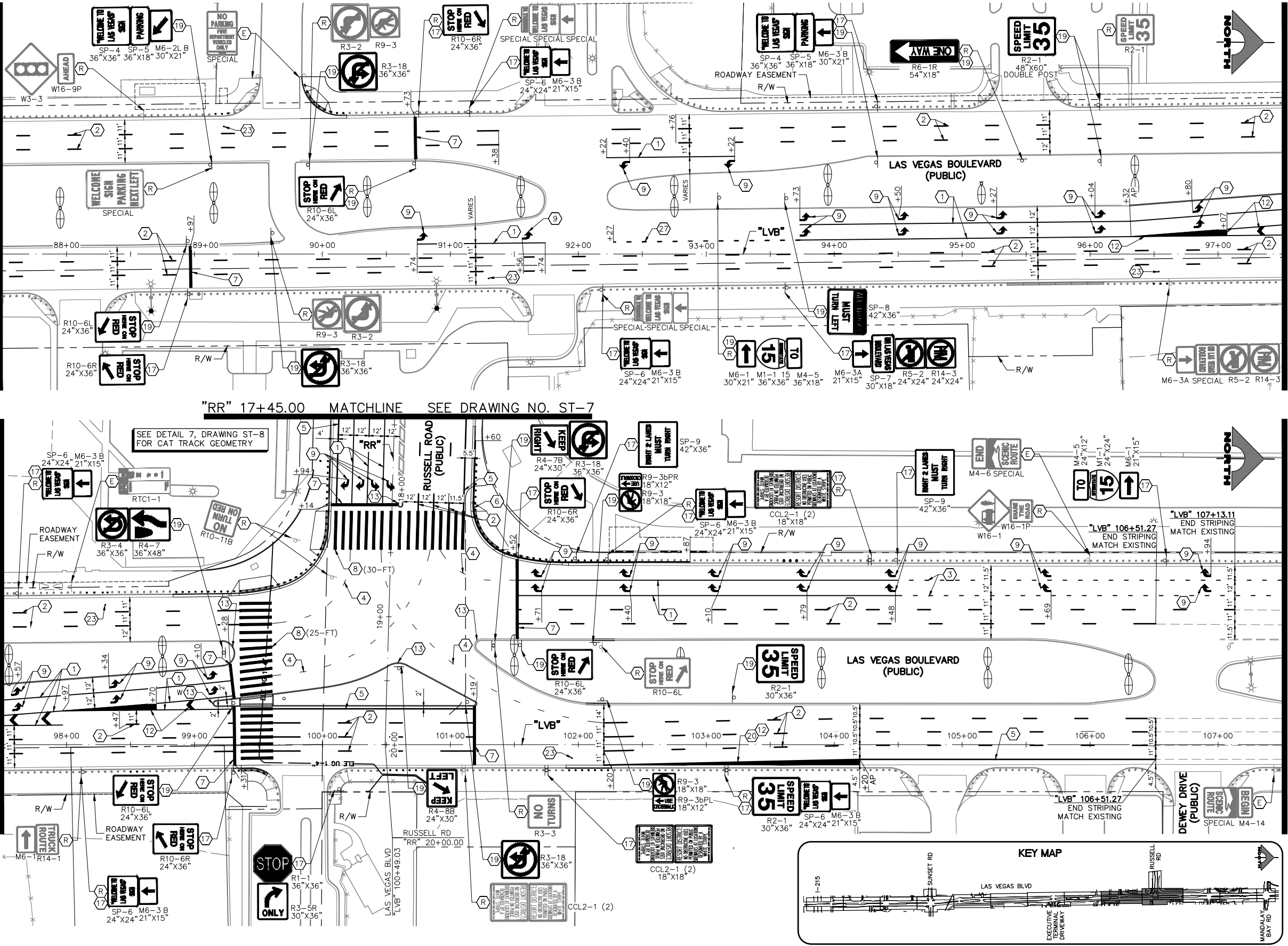
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-4</b>
VERT: NONE	SHT. 150 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

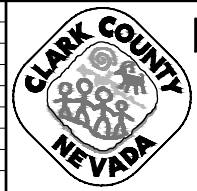
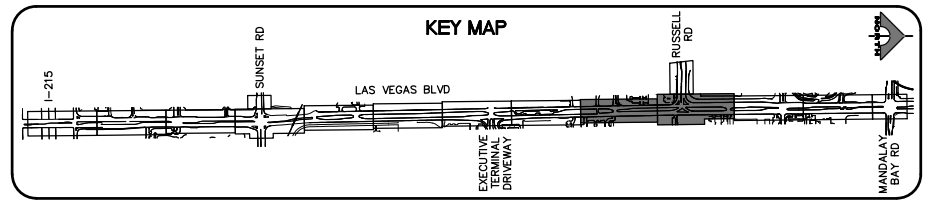


CL-26-21 08:19:49 F:\Projects\500-897-LV\DWG\Production\Phase B\LV\_LVB\_ST\_Signs.dwg

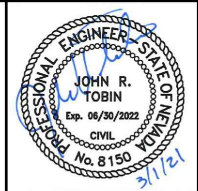


- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
  - 9 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 12 LANE TRANSITION (RPM/PPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 13 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 14 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 15 WHITE PAVEMENT RAILROAD CROSSING LEGEND (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. RC-1)
  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
  - 17 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 18 INSTALL NEW SIGN(S) (STREET LIGHT MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 19 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 20 8-INCH SOLID WHITE LINE (PPM)
  - 21 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 3, DWG. ST-8)
  - 22 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 23 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 24 REMOVE EXISTING STRIPING/MARKINGS
  - 25 WHITE PAVEMENT "KEEP CLEAR" (PREMARK THERMOPLASTIC) (SEE DETAIL 8, DWG. ST-8)
  - 26 CAT TRACKS DELINEATION (RPM) (SEE DETAIL 3, DWG. ST-8)
  - 27 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWINGS ST-9 AND ST-10 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD. STOP SIGNS AND STREET NAME SIGNS SHALL BE REMOVED AT THE TIME OF SIGNAL ACTIVATION.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. SIGNS INSTALLED IN MEDIAN SHALL BE LOCATED TO PROVIDE 2' CLEAR FROM SIGN EDGE TO CURB FACE.
  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
**"LVB" 87+50.00 TO "LVB" 107+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY:

**GCV**  
 ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

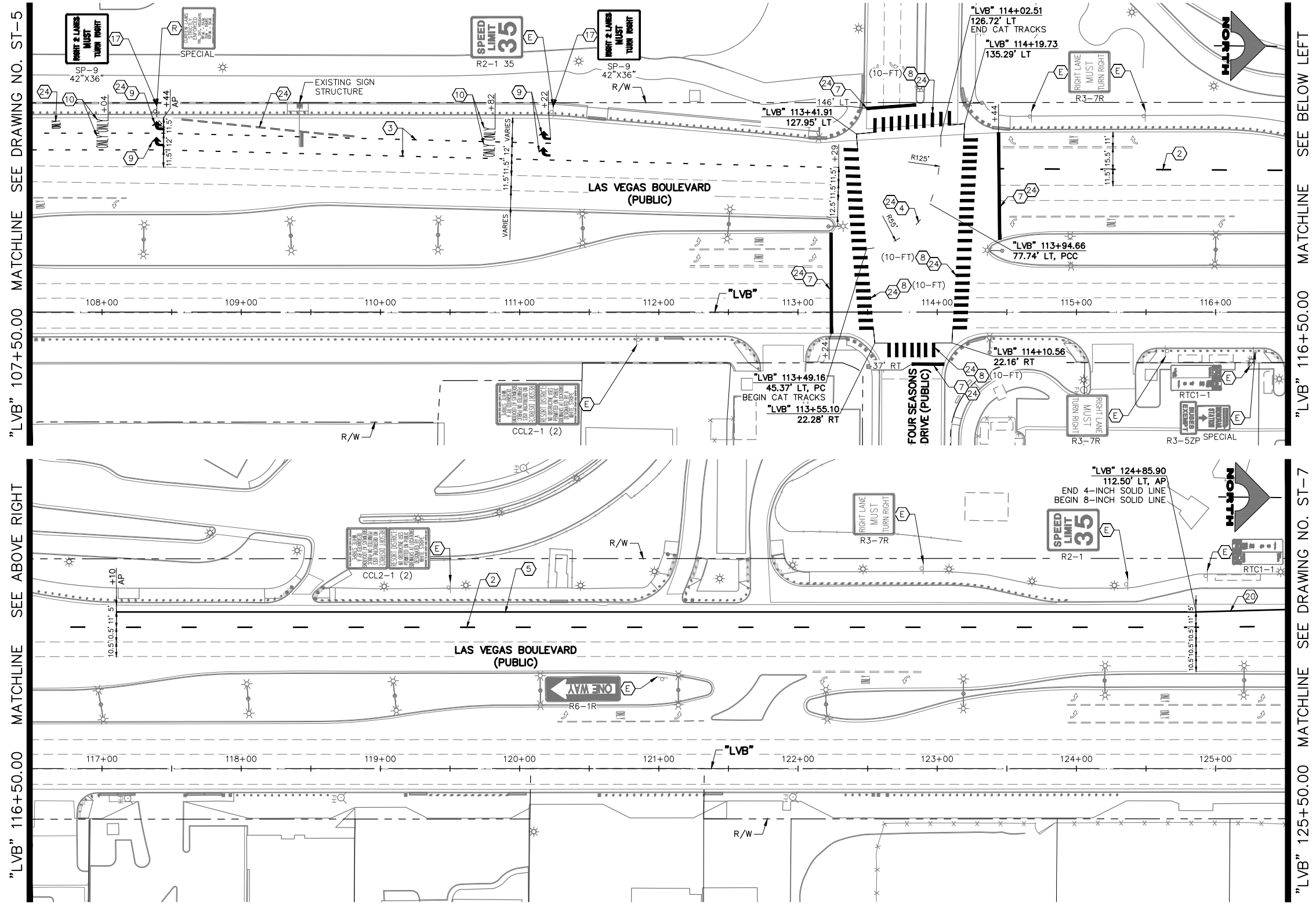
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-5</b>
VERT: NONE	SHT. 151 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

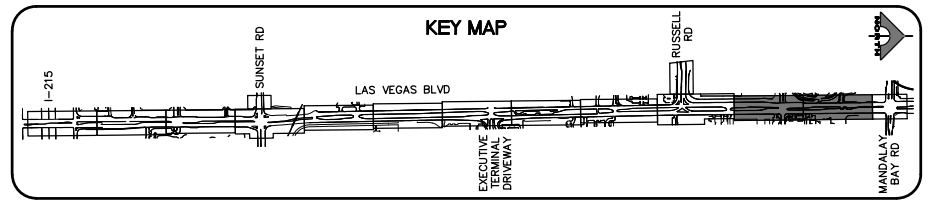
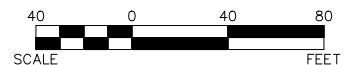


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
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  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 12 LANE TRANSITION (RPM/PPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
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  - 14 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
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  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
  - 17 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
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  - 23 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
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  - 27 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - E EXISTING SIGN(S) TO REMAIN
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  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**CALL BEFORE YOU DO OVERHEAD**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**1-702-227-2929**

**FAST**

**Call before you Dig UnderGround.**

1-702-432-5300

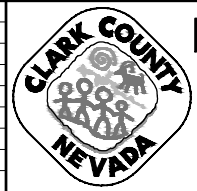
FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY!

**Call 811**

1-800-227-2600

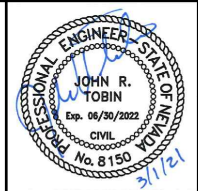


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**SIGNING AND STRIPING PLAN**

**"LVB" 107+50.00 TO "LVB" 125+50.00**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

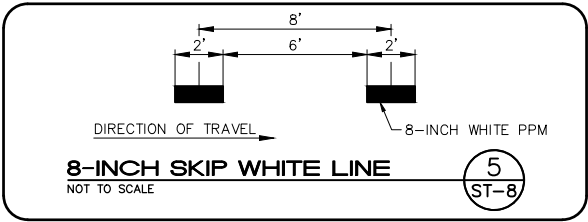
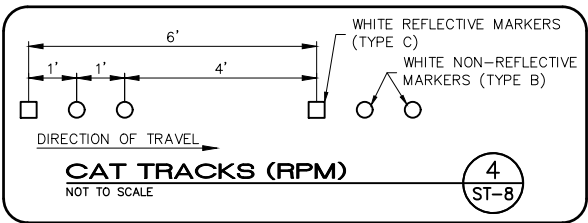
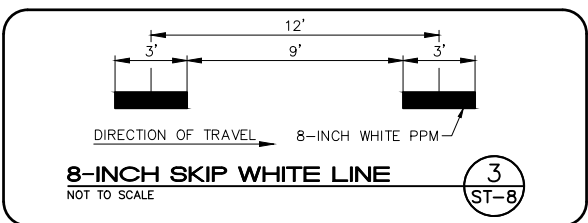
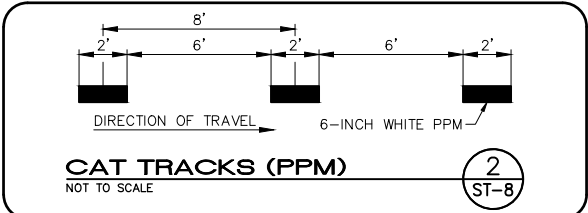
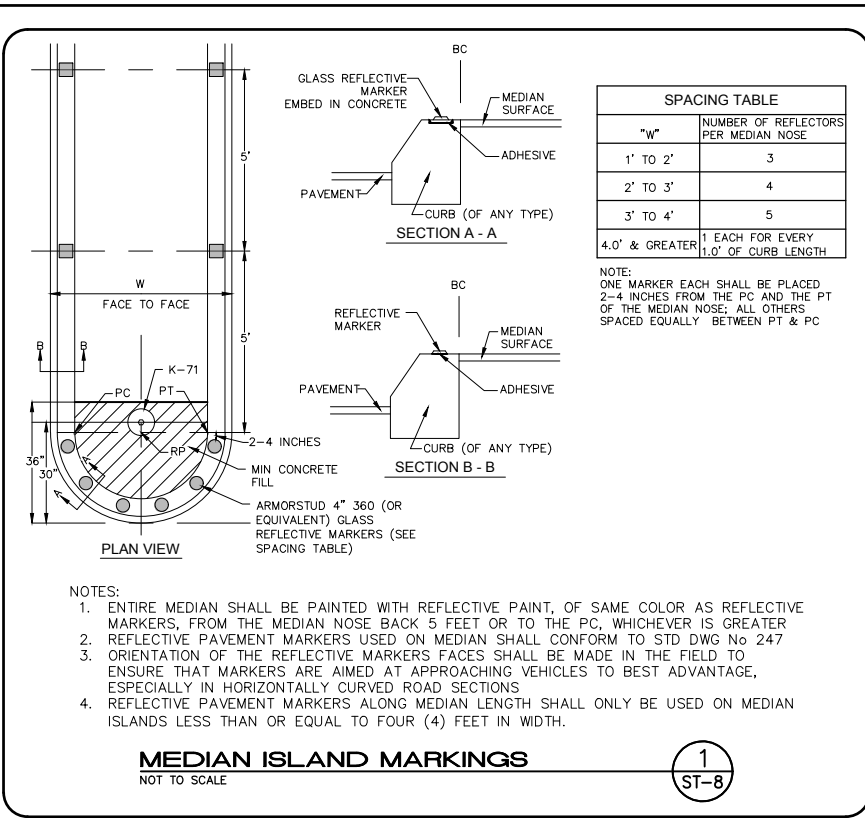
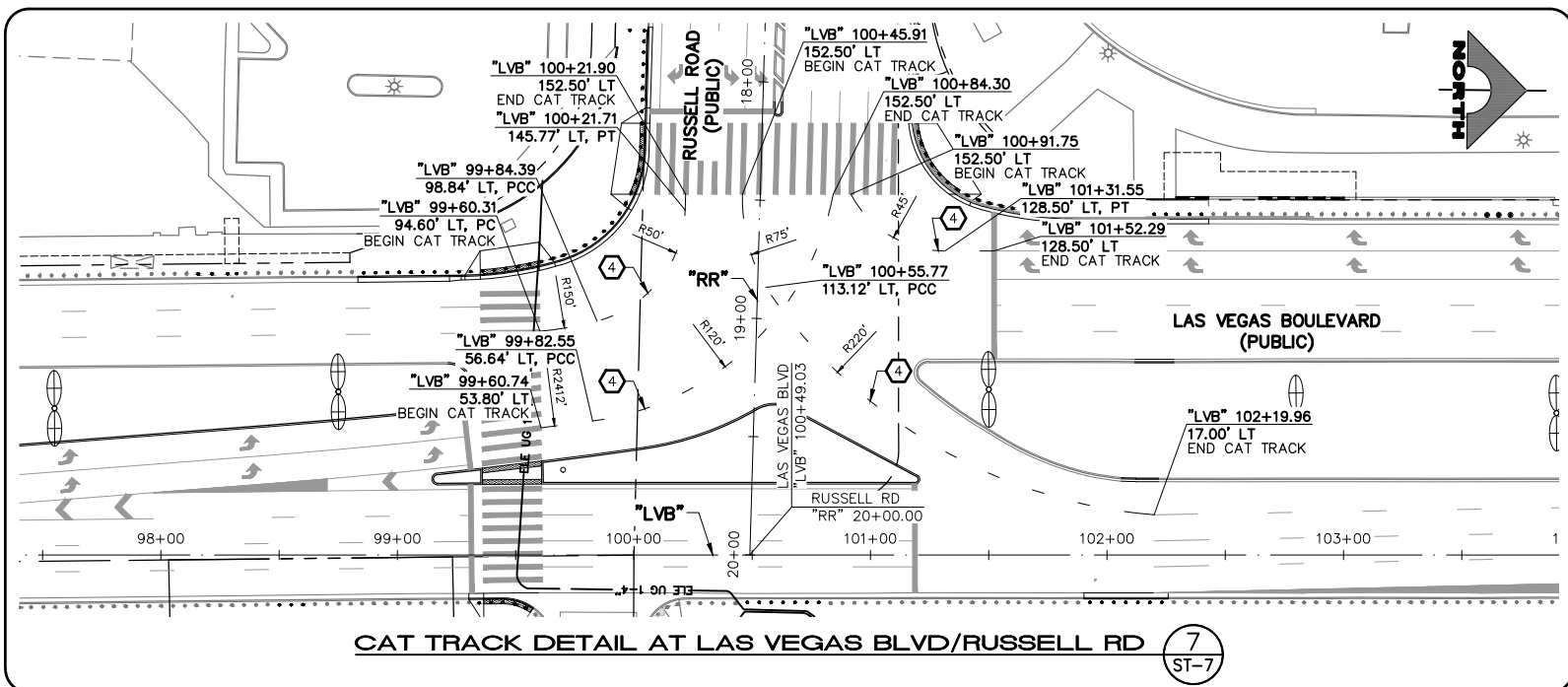
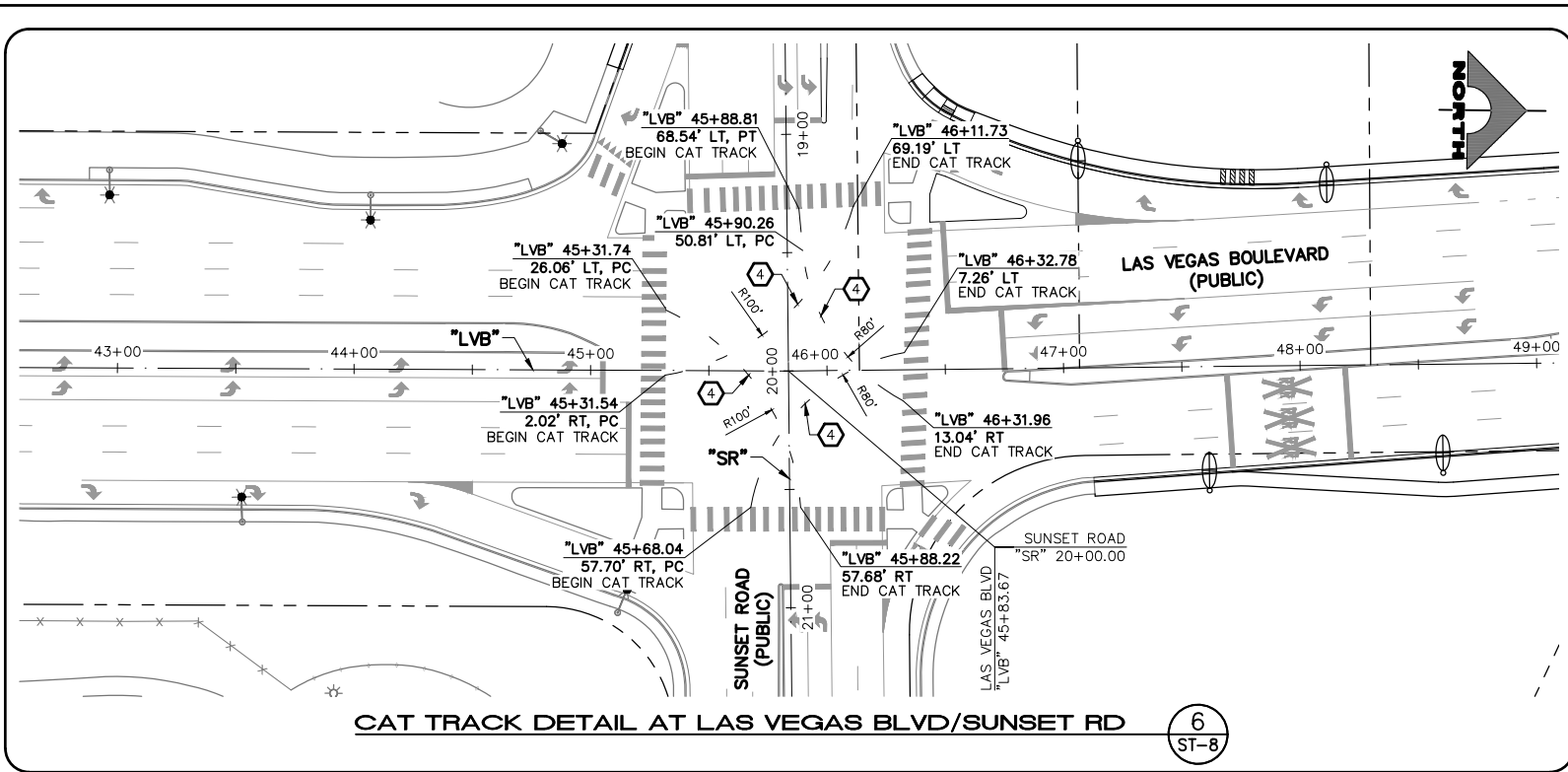
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-6</b>
VERT: NONE	SHT. 152 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

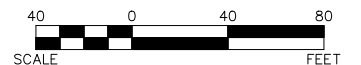
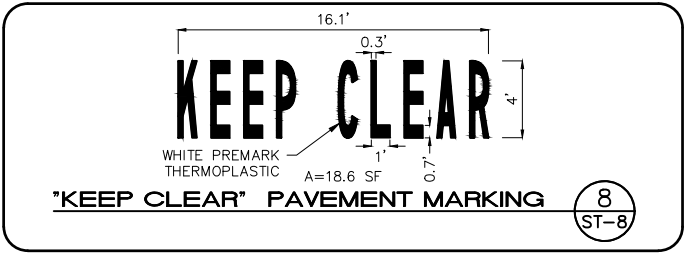




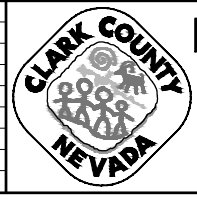


- SIGNING AND STRIPING NOTES**
- STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
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  - INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
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  - 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - EXISTING SIGN(S) TO REMAIN
  - REMOVE AND SALVAGE SIGN(S)

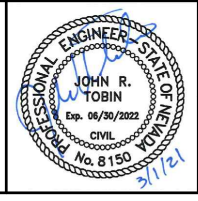
- TRAFFIC NOTES**
- SEE SIGN DETAILS ON DRAWINGS ST-9 AND ST-10 FOR SPECIAL SIGNS.
  - SEE GENERAL NOTES ON DRAWING NO. G-4.
  - IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

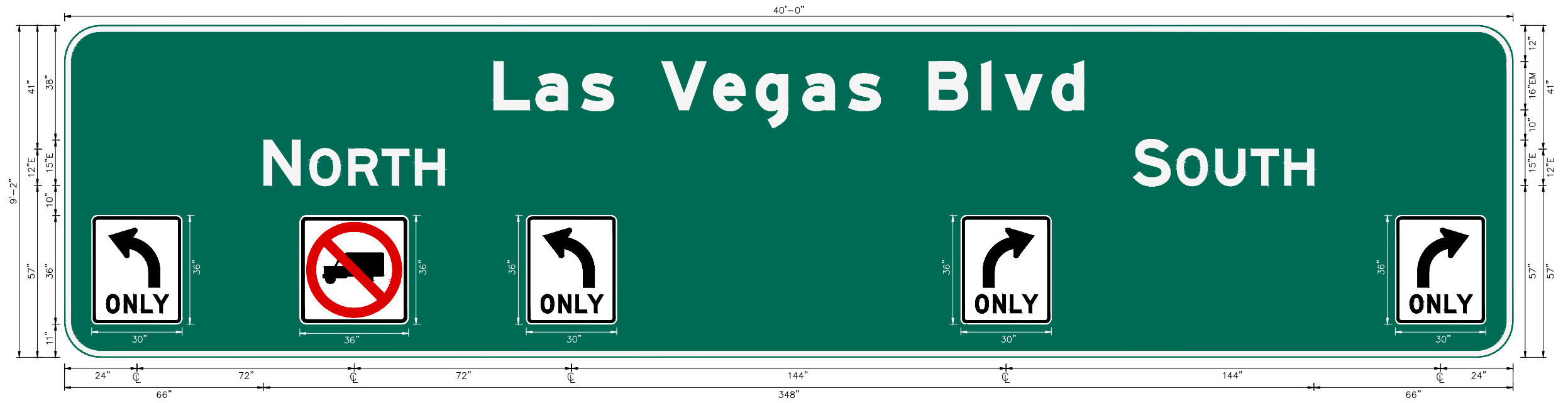
DRAWING NO. **ST-8**  
 SHT. 154 OF 159  
 L-2272

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



SIGN NUMBER GS-1  
 QUANTITY 1  
 WIDTH 40'-0"  
 HEIGHT 9'-2"  
 BORDER WIDTH 2"  
 BORDER RADII 12"  
 BACKGROUND COLOR GREEN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "RR" 14+87



SIGN NUMBER GS-2  
 QUANTITY 1  
 WIDTH 11'-0"  
 HEIGHT 7'-6"  
 BORDER WIDTH 2"  
 BORDER RADII 12"  
 BACKGROUND COLOR GREEN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "RR" 14+87



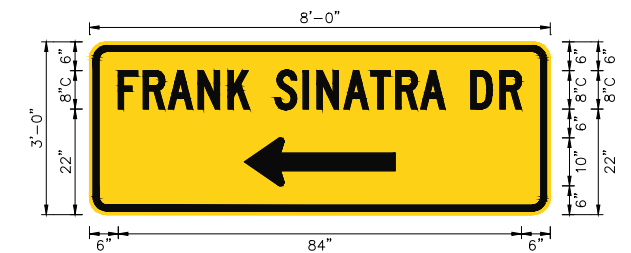
SIGN NUMBER GS-4  
 QUANTITY 1  
 WIDTH 11'-0"  
 HEIGHT 9'-2"  
 BORDER WIDTH 2"  
 BORDER RADII 12"  
 BACKGROUND COLOR BROWN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "RR" 14+87



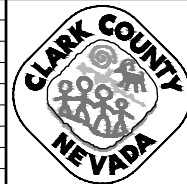
SIGN NUMBER GS-3  
 QUANTITY 1  
 WIDTH 11'-0"  
 HEIGHT 7'-6"  
 BORDER WIDTH 2"  
 BORDER RADII 12"  
 BACKGROUND COLOR GREEN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "RR" 14+87



SIGN NUMBER GS-5  
 QUANTITY 1  
 WIDTH 8'-0"  
 HEIGHT 3'-0"  
 BORDER WIDTH 1.25" (INSET=0.75")  
 BORDER RADII 3"  
 BACKGROUND COLOR YELLOW  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "RR" 14+87



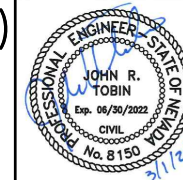
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

SIGN DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
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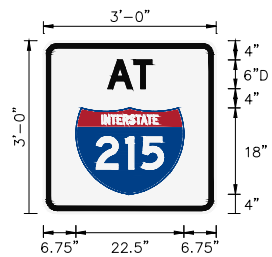
SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-9
VERT: NONE	SHT. 155 OF 159
FIELD BOOK	L-2272

REV. NO.	DATE	DESCRIPTION	APPROVED

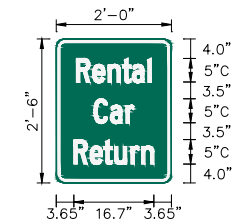
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

BID NO.: 605718-20

SIGN NUMBER SP-1  
 QUANTITY 3  
 WIDTH 3'-0"  
 HEIGHT 3'-0"  
 BORDER WIDTH 0.875" (INSET=0.625")  
 BORDER RADII 2.25"  
 BACKGROUND COLOR WHITE  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "LVB" 27+01.7  
 "LVB" 28+30.9  
 "LVB" 31+63.9



SIGN NUMBER SP-2  
 QUANTITY 3  
 WIDTH 2'-0"  
 HEIGHT 2'-6"  
 BORDER WIDTH 0.75"  
 BORDER RADII 1.875"  
 BACKGROUND COLOR GREEN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "LVB" 40+73.6  
 "LVB" 49+91.3



SIGN NUMBER SP-3  
 QUANTITY 2  
 WIDTH 4'-0"  
 HEIGHT 3'-0"  
 BORDER WIDTH 0.875" (INSET=0.625")  
 BORDER RADII 2.25"  
 BACKGROUND COLOR WHITE  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "LVB" 79+63.6  
 "LVB" 79+68.5



SIGN NUMBER SP-4  
 QUANTITY 3  
 WIDTH 3'-0"  
 HEIGHT 3'-0"  
 BORDER WIDTH 0.875"  
 BORDER RADII 2.25"  
 BACKGROUND COLOR BROWN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "LVB" 89+12.2  
 "LVB" 94+32.6



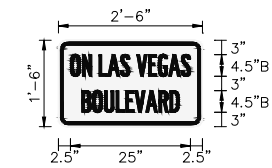
SIGN NUMBER SP-5  
 QUANTITY 3  
 WIDTH 3'-0"  
 HEIGHT 1'-6"  
 BORDER WIDTH 0.875"  
 BORDER RADII 2.25"  
 BACKGROUND COLOR BROWN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "LVB" 89+12.2  
 "LVB" 94+32.6



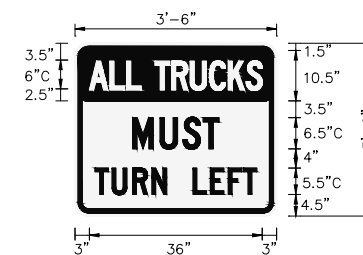
SIGN NUMBER SP-6  
 QUANTITY 6  
 WIDTH 2'-0"  
 HEIGHT 2'-0"  
 BORDER WIDTH 0.625"  
 BORDER RADII 1.5"  
 BACKGROUND COLOR BROWN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "LVB" 91+13.9  
 "LVB" 97+61.2  
 "LVB" 102+22.1



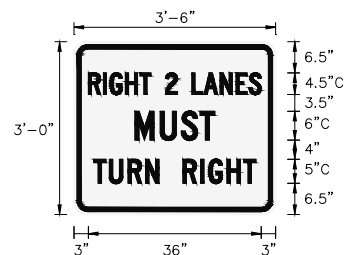
SIGN NUMBER SP-7  
 QUANTITY 2  
 WIDTH 2'-6"  
 HEIGHT 1'-6"  
 BORDER WIDTH 0.625" (INSET=0.375")  
 BORDER RADII 1.5"  
 BACKGROUND COLOR WHITE  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "LVB" 93+62.9  
 "SM" 17+64.3



SIGN NUMBER SP-8  
 QUANTITY 1  
 WIDTH 3'-6"  
 HEIGHT 3'-0"  
 BORDER WIDTH 0.875" (INSET=0.625")  
 BORDER RADII 2.25"  
 BACKGROUND COLOR WHITE  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "LVB" 93+62.9



SIGN NUMBER SP-9  
 QUANTITY 3  
 WIDTH 3'-6"  
 HEIGHT 3'-0"  
 BORDER WIDTH 0.875" (INSET=0.625")  
 BORDER RADII 2.25"  
 BACKGROUND COLOR WHITE  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "LVB" 101+97.2  
 "LVB" 104+48.1  
 "LVB" 108+38.1



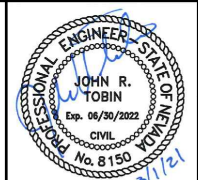
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

SIGN DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



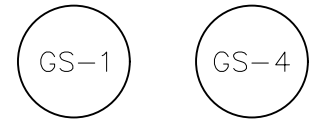
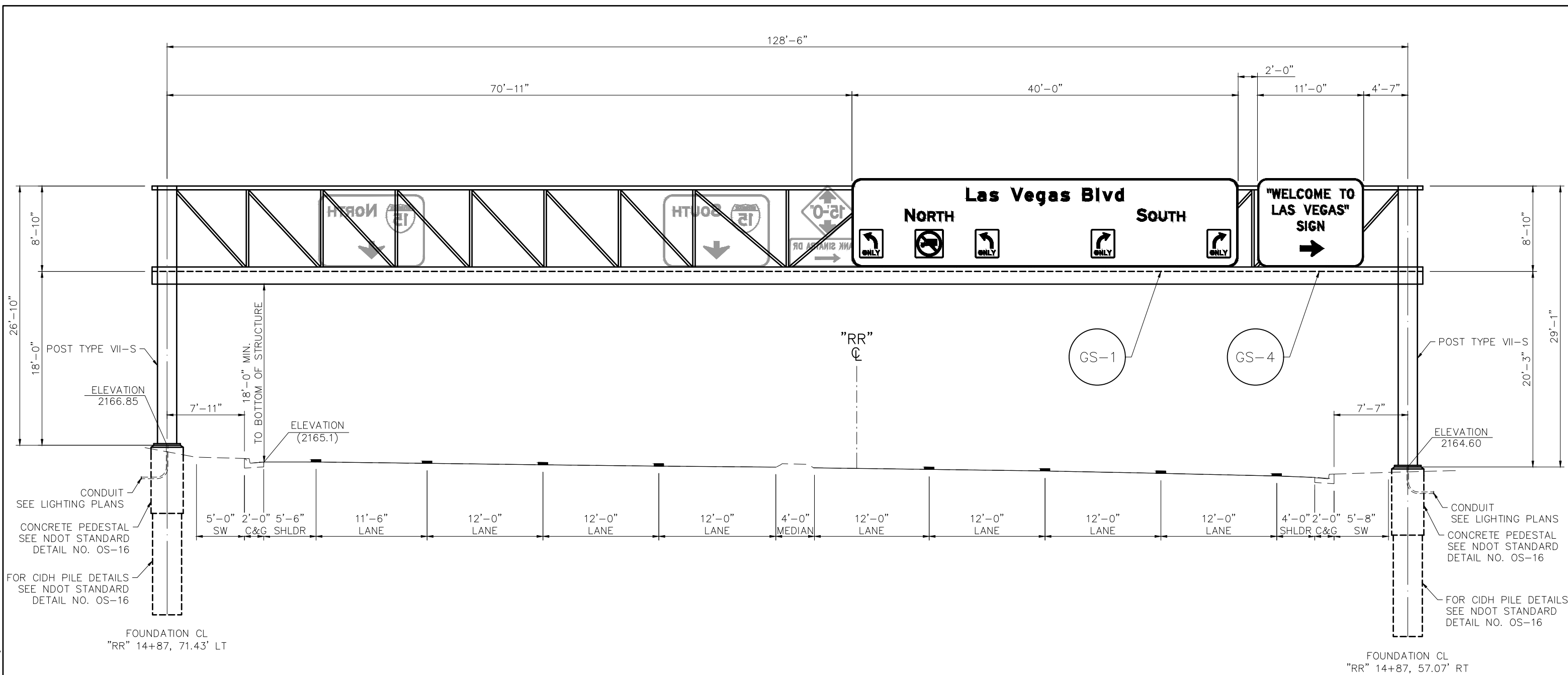
PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-10
VERT: NONE	SHT. 156 OF 159
FIELD BOOK	
	L-2272

02-26-21 08:21:48

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20



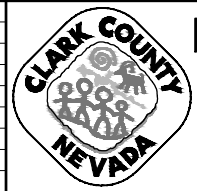
"RR" 14+87

128'-6" OVERHEAD SIGN STRUCTURE (DOUBLE FACED)  
 4 LED LIGHT FIXTURES (EASTBOUND)  
 (LOOKING EAST)

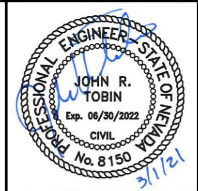
1. SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION FOR SIGN STRUCTURE DETAIL.
2. POST LENGTHS ARE APPROXIMATE. ACTUAL ELEVATIONS AND POST LENGTHS ARE TO BE CONFIRMED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO SUBMISSION OF SHOP DRAWINGS.
3. SEE NDOT STANDARD DETAIL NO. TL-7 FOR LIGHT FIXTURE SPACING.
4. SIGN STRUCTURE SHALL BE EQUIPPED WITH A LUMINAIRE RETRIEVAL SYSTEM FOR EACH DIRECTION.
5. ALL DOWN ARROWS SHALL BE CENTERED ABOVE LANES.

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REV. NO.	DATE	DESCRIPTION	APPROVED



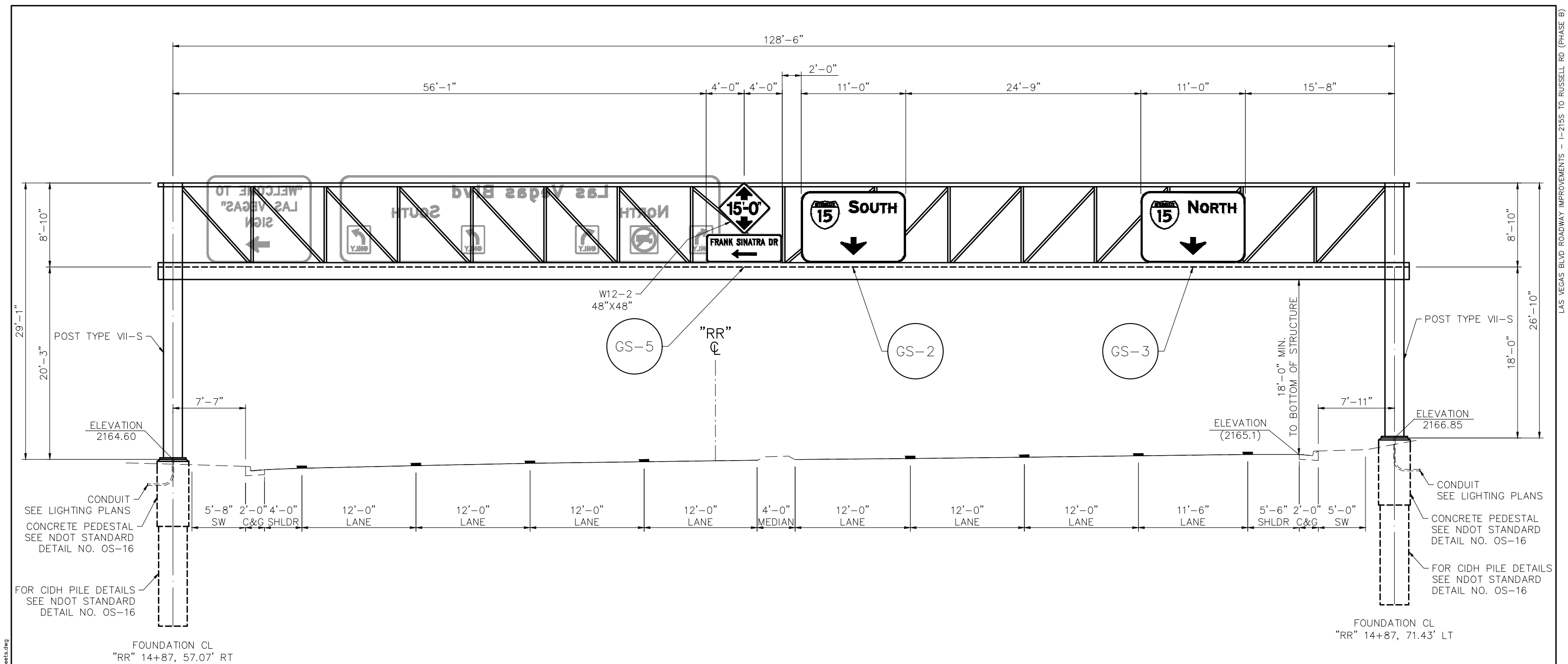
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGN STRUCTURE DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-11</b>
VERT: NONE	SHT. 157 OF 159
FIELD BOOK	L-2272





- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION FOR SIGN STRUCTURE DETAIL.
- POST LENGTHS ARE APPROXIMATE. ACTUAL ELEVATIONS AND POST LENGTHS ARE TO BE CONFIRMED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO SUBMISSION OF SHOP DRAWINGS.
- SEE NDOT STANDARD DETAIL NO. TL-7 FOR LIGHT FIXTURE SPACING.
- SIGN STRUCTURE SHALL BE EQUIPPED WITH A LUMINAIRE RETRIEVAL SYSTEM FOR EACH DIRECTION.
- ALL DOWN ARROWS SHALL BE CENTERED ABOVE LANES.

GS-5      GS-2      GS-3  
 "RR" 14+87  
 128'-6" OVERHEAD SIGN STRUCTURE (DOUBLE FACED)  
 3 LED LIGHT FIXTURES (WESTBOUND)  
 (LOOKING WEST)

02-26-21 08:22:13 F:\Projects\500\500-897-LV\DWG\Production\Phase B\16\_LVB\_ST Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

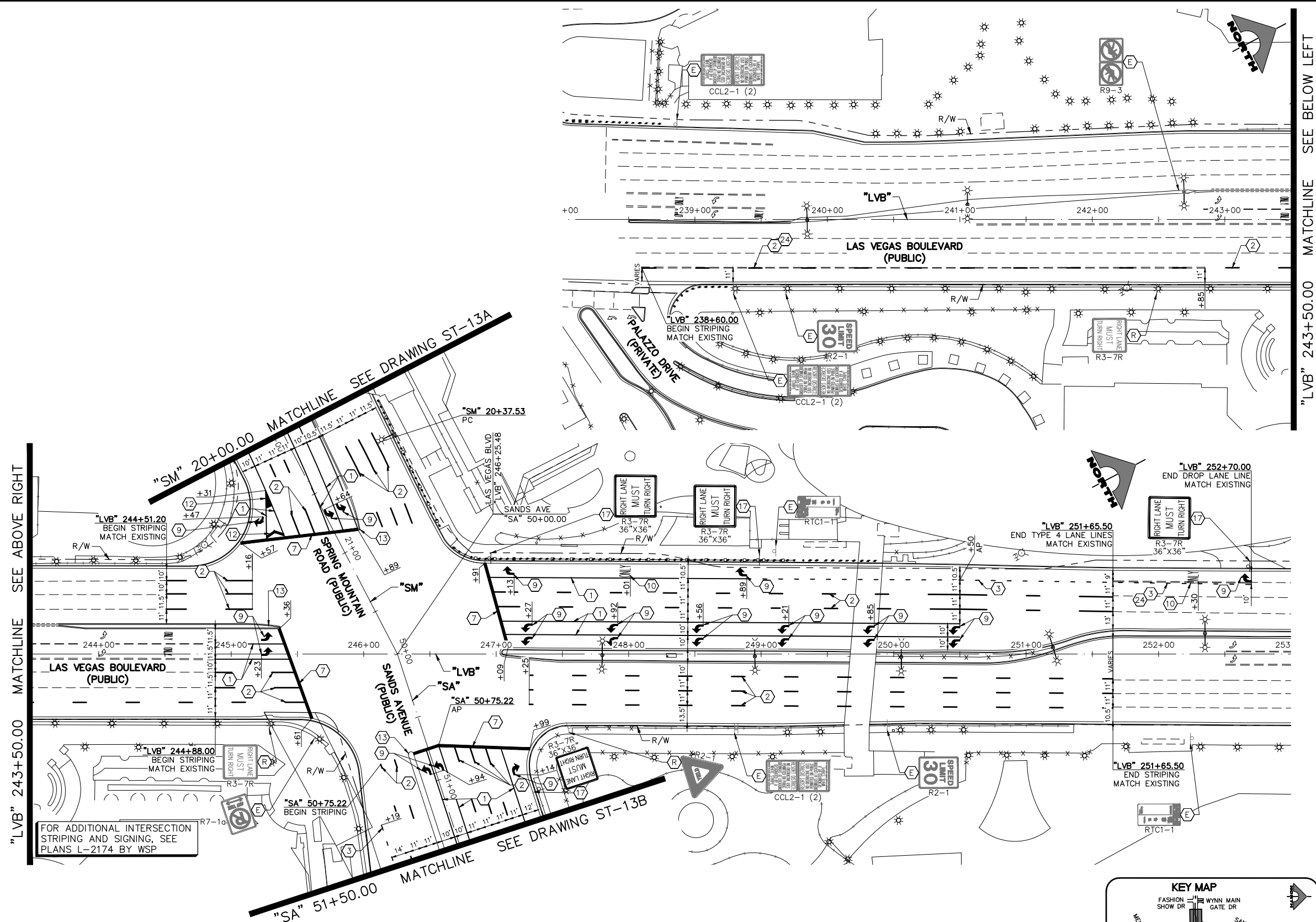
**SIGN STRUCTURE DETAILS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV	DRAWN BY: TAA	SCALE:	DRAWING NO. ST-12
DESIGNED BY: DSH	CHECKED BY: JRT	HORIZ: AS SHOWN	SHT. 158 OF 159
APPROVED BY: _____		VERT: NONE	L-2272
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com		FIELD BOOK	

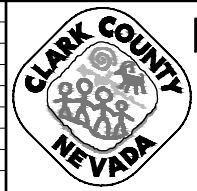
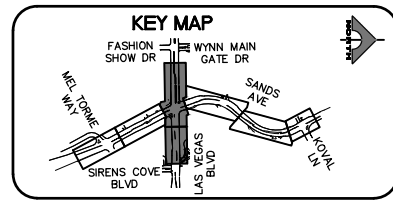
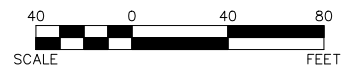
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)

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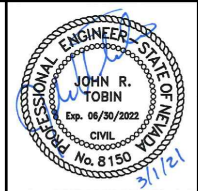


- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
  - 9 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 12 LANE TRANSITION (RPM/PPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 13 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 14 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 15 WHITE PAVEMENT RAILROAD CROSSING LEGEND (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. RC-1)
  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
  - 17 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 18 INSTALL NEW SIGN(S) (STREET LIGHT MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 19 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 20 8-INCH SOLID WHITE LINE (PPM)
  - 21 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 3, DWG. ST-8)
  - 22 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 23 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 24 REMOVE EXISTING STRIPING/MARKINGS
  - 25 WHITE PAVEMENT "KEEP CLEAR" (PREMARK THERMOPLASTIC) (SEE DETAIL 8, DWG. ST-8)
  - 26 CAT TRACKS DELINEATION (RPM) (SEE DETAIL 3, DWG. ST-8)
  - 27 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWINGS ST-9 AND ST-10 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD. STOP SIGNS AND STREET NAME SIGNS SHALL BE REMOVED AT THE TIME OF SIGNAL ACTIVATION.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. SIGNS INSTALLED IN MEDIAN SHALL BE LOCATED TO PROVIDE 2' CLEAR FROM SIGN EDGE TO CURB FACE.
  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
**"LVB" 238+00.00 TO "LVB" 253+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-13</b>
VERT: NONE	SHT. 159 OF 159
FIELD BOOK	L-2272

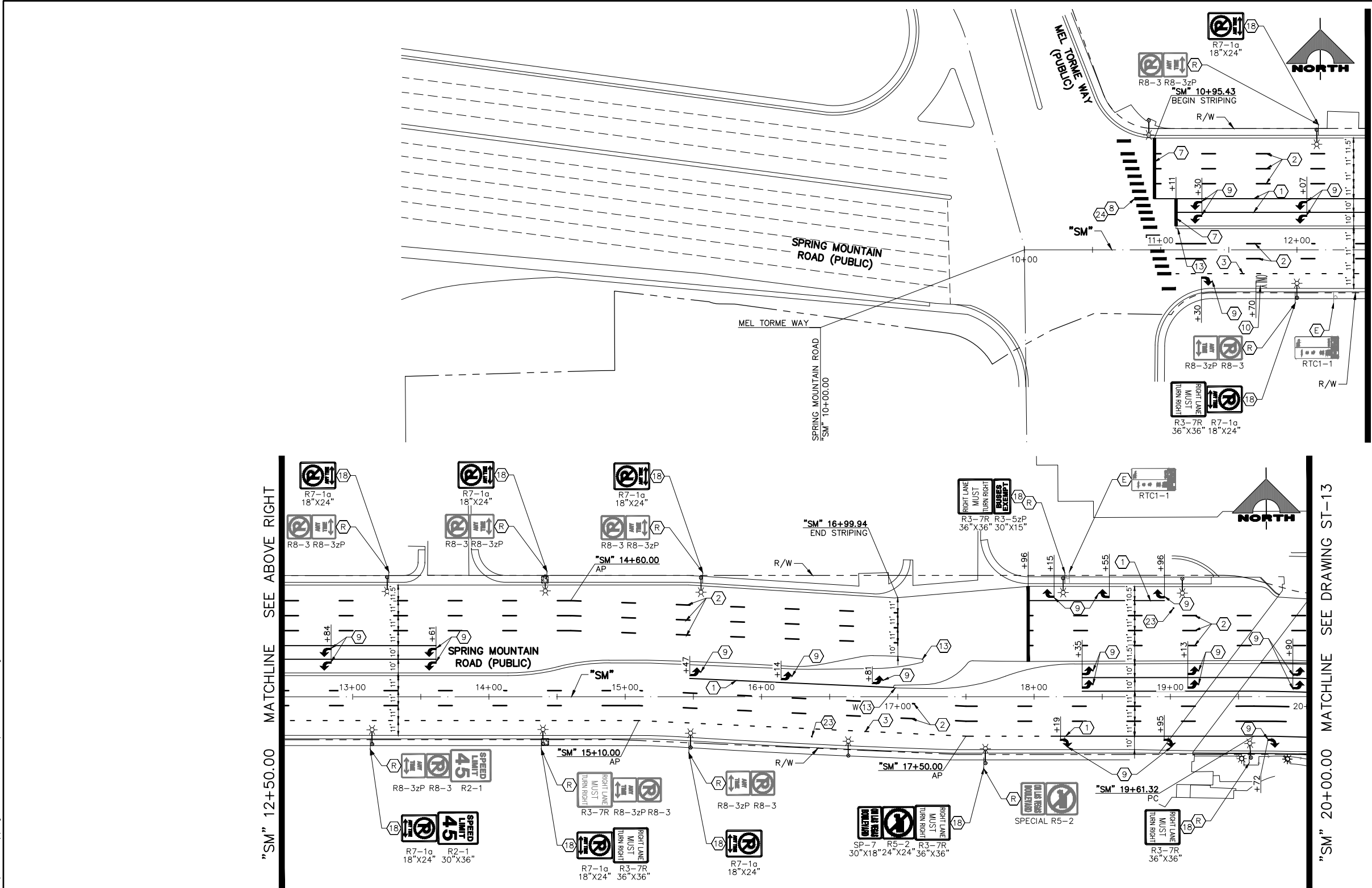
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

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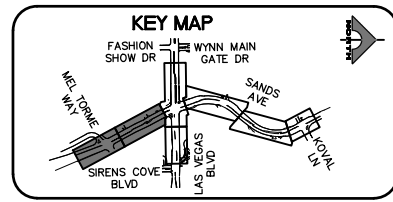
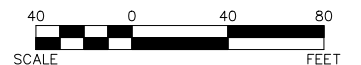
dhines



MATCHLINE SEE BELOW LEFT  
"SM" 12+50.00  
MATCHLINE SEE DRAWING ST-13  
"SM" 20+00.00

- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
  - 9 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 12 LANE TRANSITION (RPM/PPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 13 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 14 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-8)
  - 15 WHITE PAVEMENT RAILROAD CROSSING LEGEND (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. RC-1)
  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
  - 17 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 18 INSTALL NEW SIGN(S) (STREET LIGHT MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 19 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 20 8-INCH SOLID WHITE LINE (PPM)
  - 21 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 3, DWG. ST-8)
  - 22 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 23 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 24 REMOVE EXISTING STRIPING/MARKINGS
  - 25 WHITE PAVEMENT "KEEP CLEAR" (PREMARK THERMOPLASTIC) (SEE DETAIL 8, DWG. ST-8)
  - 26 CAT TRACKS DELINEATION (RPM) (SEE DETAIL 3, DWG. ST-8)
  - 27 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWINGS ST-9 AND ST-10 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD. STOP SIGNS AND STREET NAME SIGNS SHALL BE REMOVED AT THE TIME OF SIGNAL ACTIVATION.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. SIGNS INSTALLED IN MEDIAN SHALL BE LOCATED TO PROVIDE 2' CLEAR FROM SIGN EDGE TO CURB FACE.
  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**CALL BEFORE YOU DO OVERHEAD**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**1-702-227-2929**

**FAST**

**Call before you Dig UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

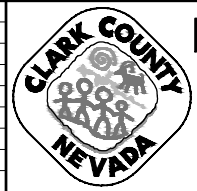
**Call before you Dig**

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY!

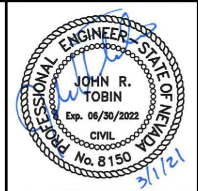
**Call 811**

OR **1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
**"SM" 10+00.00 TO "SM" 20+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

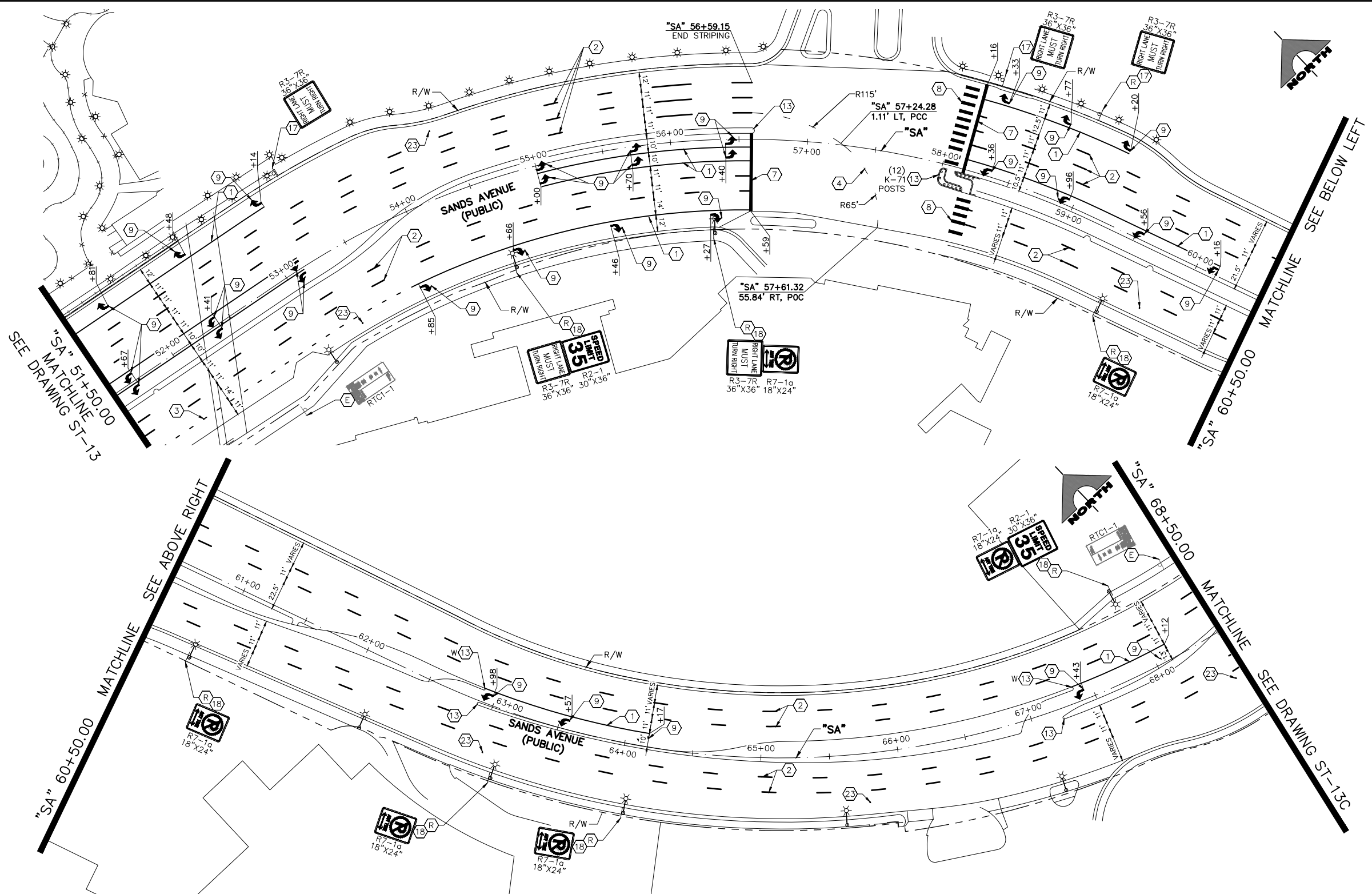
**GCV** ENGINEERS & SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-13A</b>
VERT: NONE	SHT. 159A OF 159
FIELD BOOK	L-2272

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)  
BID NO.: 605718-20

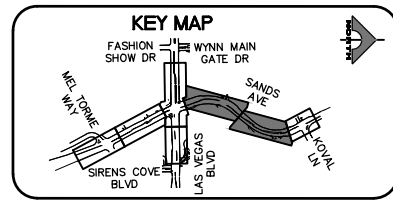


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
  - 9 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 10 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 11 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
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  - 16 REMOVE AND RESET SIGN AS PART OF SHELTER RELOCATION (SEE C-SHEETS) (USDCCA STD. DWG. NO. 249.1)
  - 17 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
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  - 20 8-INCH SOLID WHITE LINE (PPM)
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  - 22 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 23 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 24 REMOVE EXISTING STRIPING/MARKINGS
  - 25 WHITE PAVEMENT "KEEP CLEAR" (PREMARK THERMOPLASTIC) (SEE DETAIL 8, DWG. ST-8)
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  - 27 8-INCH SKIP WHITE LINE (PPM) (SEE DETAIL 5, DWG. ST-8)
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWINGS ST-9 AND ST-10 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
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  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD. STOP SIGNS AND STREET NAME SIGNS SHALL BE REMOVED AT THE TIME OF SIGNAL ACTIVATION.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. SIGNS INSTALLED IN MEDIAN SHALL BE LOCATED TO PROVIDE 2' CLEAR FROM SIGN EDGE TO CURB FACE.
  8. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**CALL BEFORE YOU DO OVERHEAD**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**1-702-227-2929**

**FAST**

**Call before you Dig UnderGround.**

1-702-432-5300

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

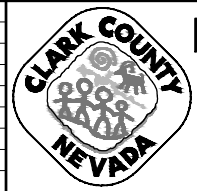
**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

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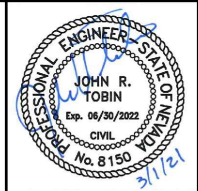


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**

**SIGNING AND STRIPING PLAN**

**"SA" 51+50.00 TO "SA" 68+50.00**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: XXX

DESIGNED BY: XXX CHECKED BY: XXX

APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS & SURVEYORS

1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

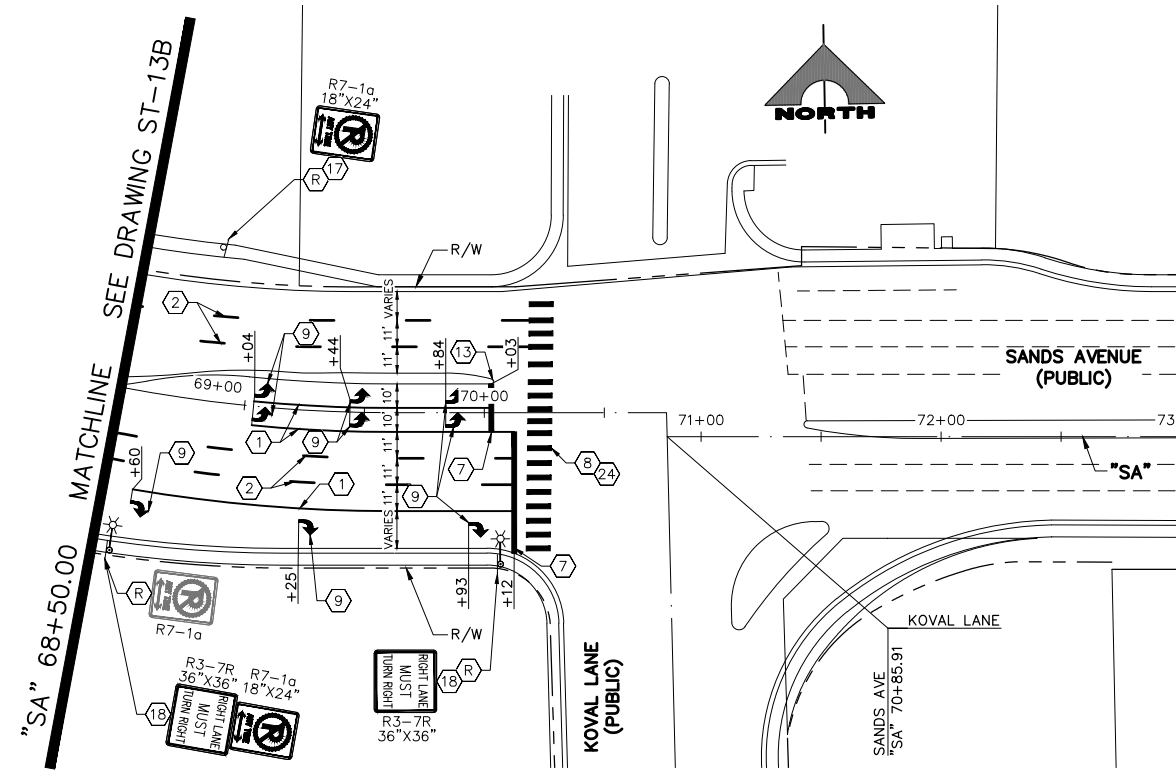
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DRAWING NO. **ST-13B** SHT. 159B OF 159

L-2272

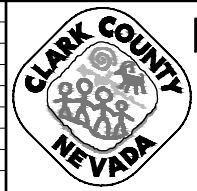
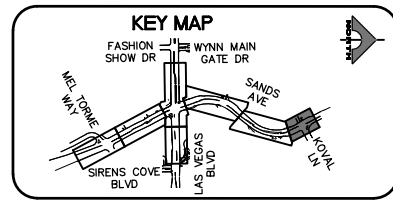
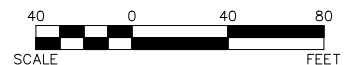
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20

F:\Projects\500\500-897-LV\DWG\Production\Spring Mtn to Fashion Show\16-LVB-ST\_Sheets.dwg

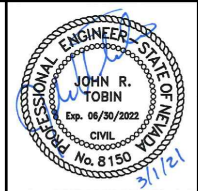


- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 CAT TRACKS DELINEATION (PPM) (SEE DETAIL 2, DWG. ST-8)
  - 5 4-INCH SOLID WHITE LINE (PPM)
  - 6 6-INCH SOLID WHITE LINE (PPM) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 7 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (WIDTH AS SHOWN) (USDCCA STD. DWG. NO. 254)
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B)**  
**SIGNING AND STRIPING PLAN**  
**"SA" 68+50.00 TO "SA" 73+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: JDS  
 DESIGNED BY: JDS CHECKED BY: AEP  
 APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS & SURVEYORS

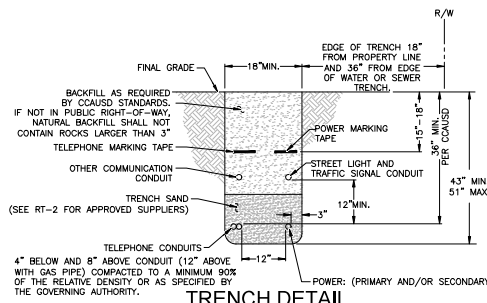
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-13C
VERT: NONE	SHT. 159C OF 159
FIELD BOOK	L-2272

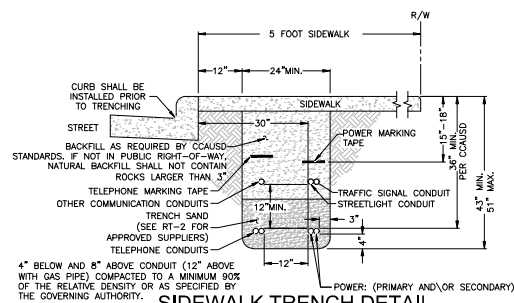
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - I-215S TO RUSSELL RD (PHASE B) BID NO.: 605718-20





**TRENCH DETAIL**  
NVE U.G. STD. RT-12 (REV. 10/27/2014)  
(RESIDENTIAL AND COMMERCIAL)



**SIDEWALK TRENCH DETAIL**  
NVE U.G. STD. RT-7 (REV. 10/27/2014)  
(RESIDENTIAL OR COMMERCIAL)



T,R,S: 21-61-33  
APN: 177-05-510-002  
162-33-701-002

**GENERAL NOTES:**

ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVENERGY ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVENERGY STANDARDS. THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVENERGY UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVENERGY. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF. SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVENERGY UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVENERGY CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED. APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6\"/>

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETED 8\"/>

2\"/>

3\"/>

6\"/>

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVENERGY STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVENERGY DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDETTED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDETTED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.

WHEN NVENERGY FACILITIES ARE TO BE REMOVED, NVENERGY WILL REMOVE ALL WIRES AND EQUIPMENT. NVENERGY IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE \"UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA\", LATEST ISSUE; THE \"UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA\", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

**CIVIL LINETYPE LEGEND**

CENTERLINE	---
PROPERTY LINE/ROW	----
CURB	----
EDGE OF PAVEMENT	----
EDGE OF SIDEWALK	----
SEWER LINE	---
WATER LINE	---
COHW WATER LINE	---
LVWD WATER LINE	---
SNWA WATER LINE	---
GAS LINE	---
TELEPHONE LINE	---
CABLE TV LINE	---
CABLE TV LINE	---
STORM DRAIN LINE	---
FIRE HYDRANT	---
SIGNAL LIGHT	---
STREET LIGHT	---

**METER LOCATION & ACCESS REQUIREMENTS**  
(NV ENERGY STANDARDS RPI-2 & RPI-G)

MIN. 3'X3' CLEAR, LEVEL SPACE (SAFE WORK SPACE) REQUIRED DIRECTLY IN FRONT OF METER. THIS SPACE SHALL NOT BE PART OF A DRIVEWAY OR SUBJECT TO VEHICULAR TRAFFIC.  
SERVICE POINT TO BE NO GREATER THAN 100' FROM BACK OF CURB OR PUBLIC EASEMENT (NO GREATER THAN 25' FROM SIDE STREET OR ALLEY).  
A SERVICE PEDESTAL MUST BE 5' MIN. FROM BACK OF CURB, 6' MIN FROM DRIVEWAY OR OTHER TRAFFIC AREA.  
BOTH SERVICE POINT AND SAFE WORK SPACE TO BE DIRECTLY VISIBLE FROM BACK OF CURB OR PUBLIC EASEMENT, AND MUST BE READILY ACCESSIBLE TO NV ENERGY AT ALL TIMES WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT. FENCES, GATES, WALLS, OR OTHER OBSTRUCTIONS IN FRONT OF THE SERVICE POINT ARE PROHIBITED.  
VISIBILITY, ACCESSIBILITY, AND SAFE WORK SPACE MUST BE MAINTAINED FOR THE ENTIRE LIFE OF THE SERVICE.

**CONSTRUCTION / INSPECTION REQUIREMENTS**

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: [www.nvenergy.com/business/newconstruction/newconstruction5/servicesstandards.cfm](http://www.nvenergy.com/business/newconstruction/newconstruction5/servicesstandards.cfm)  
NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:  
1. BOTTOM SAND AND CONDUIT INSTALLED  
2. TOP SAND INSTALLED  
3. BACKFILL INSTALLED  
CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).  
NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.  
NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.  
METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:  
• [INSTRUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals\_southern@nvenergy.com)  
• APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: [www.nvenergy.com/brochures\\_arch/new\\_construction/meter\\_set.pdf](http://www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf)  
• THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.  
• METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).  
TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: [www.nvenergy.com/business/newconstruction/newconstruction5/developerdashboard.cfm](http://www.nvenergy.com/business/newconstruction/newconstruction5/developerdashboard.cfm)

**TRANSMISSION REQUIREMENTS**

COMPLIANCE WITH ALL NESC AND OSHA REQUIREMENTS. MATERIALS AND EQUIPMENT CANNOT BE STOCKPILED UNDER LINES. POLE BOLLARDS ARE REQUIRED AND SHALL BE INSTALLED BY THE OWNER IF PARKING IS WITHIN 10' OF ANY TRANSMISSION STRUCTURE. A 40'X40' SQUARE MUST BE MAINTAINED ON ONE SIDE OF A TANGENT STRUCTURE AND A 20'X20' SQUARE AROUND A DEAD END STRUCTURE TO ALLOW ACCESS FOR MAINTENANCE PURPOSES. CUSTOMER MUST OBTAIN PRIOR APPROVAL FROM TRANSMISSION ENGINEERING FOR FUTURE PROJECTS AND ANY CHANGES OR REVISIONS TO THIS PROJECT INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:  
• PARKING OR STORAGE OF VEHICLES EXCEEDING 8' IN HEIGHT  
• COVERED PARKING  
• PARKING LIGHTS  
• METALLIC FENCES OR BLOCK WALLS  
• TRASH ENCLOSURES  
• BUILDINGS OR STRUCTURES AND FREE STANDING SIGNS  
• SWIMMING POOLS  
• PINE AND PALM TREES  
• ELEVATION OR GRADE CHANGES  
CONTRACTOR SHALL MAINTAIN RADIUS OF 10' PLUS 1:1 SLOPE OF UNDISTURBED SOIL AROUND POLES OR CONTRACTOR WILL NEED TO PROVIDE FOR TRENCH SHORING AND/OR BRACING. CONTRACTOR MAY OBTAIN WAIVER FROM NVE CONSTRUCTION SUPERVISOR.

**RTC NOTES:**

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

①	500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
②	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
③	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W
④	500.4	OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT. 60' R.O.W OR LESS
⑤	500.5	OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
⑥	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
⑦	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
⑧	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
⑨	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
⑩	BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.	
⑪	234	SIDEWALK
⑫	506	UTILITY POTHOLE REPAIR
⑬	216	"L" TYPE CURB AND GUTTER

**OUTAGE NOTICE REQUIRED**

**CUSTOMER OUTAGE REQUIRED!**

**STREETLIGHT CLEARANCE:**  
NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

**CUSTOMER NOTE:**  
UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMER'S CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

**CREW NOTE:**  
UNLESS OTHERWISE NOTED IN DESIGN:  
• ALL 1/0 CABLES ENTERING RS-82/RS-85 BOXES TO BE TERMINATED AND PLACED ON THEIR RESPECTIVE PHASE MODULE OR STANDOFF AS DIRECTED BY SYSTEM OPERATIONS.  
• ALL 1/0 CABLES ENTERING RS-80 BOXES TO BE SPLICED TO THE MATING PHASE/CIRCUIT.  
1/0 SPLICES AND MODULES ARE NOT TO BE INSTALLED IN THE SAME BOX, UNLESS SPECIFICALLY NOTED IN DESIGN.

**NVENERGY REQUIRES 24 HOUR ACCESS TO EQUIPMENT**

**FIRE HYDRANT CLEARANCE:**  
6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.  
6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICED BOXES. ALL PER NVENERGY STD. RS-5

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

**NOTICE:**  
THIS EXHIBIT IS THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF NV ENERGY AND MAY NOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF NV ENERGY.  
THE IMAGES HEREON ARE NOT ORTHOPHOTOGRAPHIC. ANY LOCATIONS DEPICTED HEREON ARE APPROXIMATE ONLY. THIS EXHIBIT WAS CREATED FOR GENERAL PRESENTATION AND DISCUSSION PURPOSES ONLY AND IS NOT PURPORTED TO REPRESENT ANY MEASURE OF ACCURACY. THIS EXHIBIT IS NOT TO BE UTILIZED IN ANY MANNER NOT CONSISTENT WITH THE INTENT OF ITS' CREATION AS STATED ABOVE.

**NIGHT TIME OUTAGE:**

ADDRESS(ES):	METER QTY:
2102 W. RUSSELL RD	1
2324 W. RUSSELL RD	1
2330 W. RUSSELL RD	1
2349 W. RUSSELL RD	1
2489 W. RUSSELL RD	1
2589 W. RUSSELL RD	1
2649 W. RUSSELL RD	1
3940 S. LAS VEGAS BLVD	1
4208 S. LAS VEGAS BLVD	1
4210 S. LAS VEGAS BLVD	1
4810 S. LAS VEGAS BLVD	1
4850 S. LAS VEGAS BLVD	1
4860 S. LAS VEGAS BLVD	1
5150 S. LAS VEGAS BLVD	1
5000 S. LAS VEGAS BLVD	1
5160 S. LAS VEGAS BLVD	1

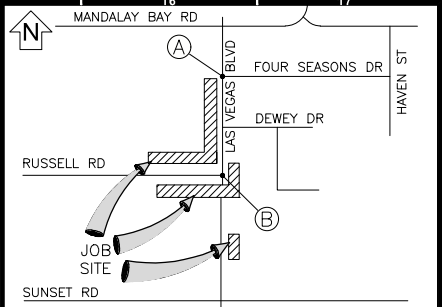
**!!!! CAUTION !!!!**  
ENERGIZED CABLES...  
CALL BEFORE YOU DIG

SHEET

**NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)**  
THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING DONE ON THIS PROJECT BY NV ENERGY CREWS WILL BE PERFORMED AT NIGHT TIME AND WILL REQUIRE TRAFFIC CONTROL.  
GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

**APPROVED FOR PERMITTING**  
THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.  
NIGHT WORK: YES  NO   
ENCROACHMENT PERMIT # \_\_\_\_\_  
APPROVAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED\*  
DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY  
PW# \_\_\_\_\_ # \_\_\_\_\_  
DATE \_\_\_\_\_ # \_\_\_\_\_  
\* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE WITHIN COUNTY RIGHT-OF-WAY  
ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR



**VICINITY MAP**  
(NOT TO SCALE)  
EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
CALL BEFORE YOU DO OVERHEAD  
CALL 1-702-402-2829

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
OR  
1-800-227-2600  
AND CLARK COUNTY TRAFFIC OPERATIONS  
1-702-455-6000

**REVISIONS**

NO.	DESCRIPTION	DATE	REV BY

**NON-STANDARD PROJECT PURPOSE:**

TO REMOVE AND RELOCATE NVE FACILITIES DUE TO CLARK COUNTY PUBLIC WORKS PROJECT

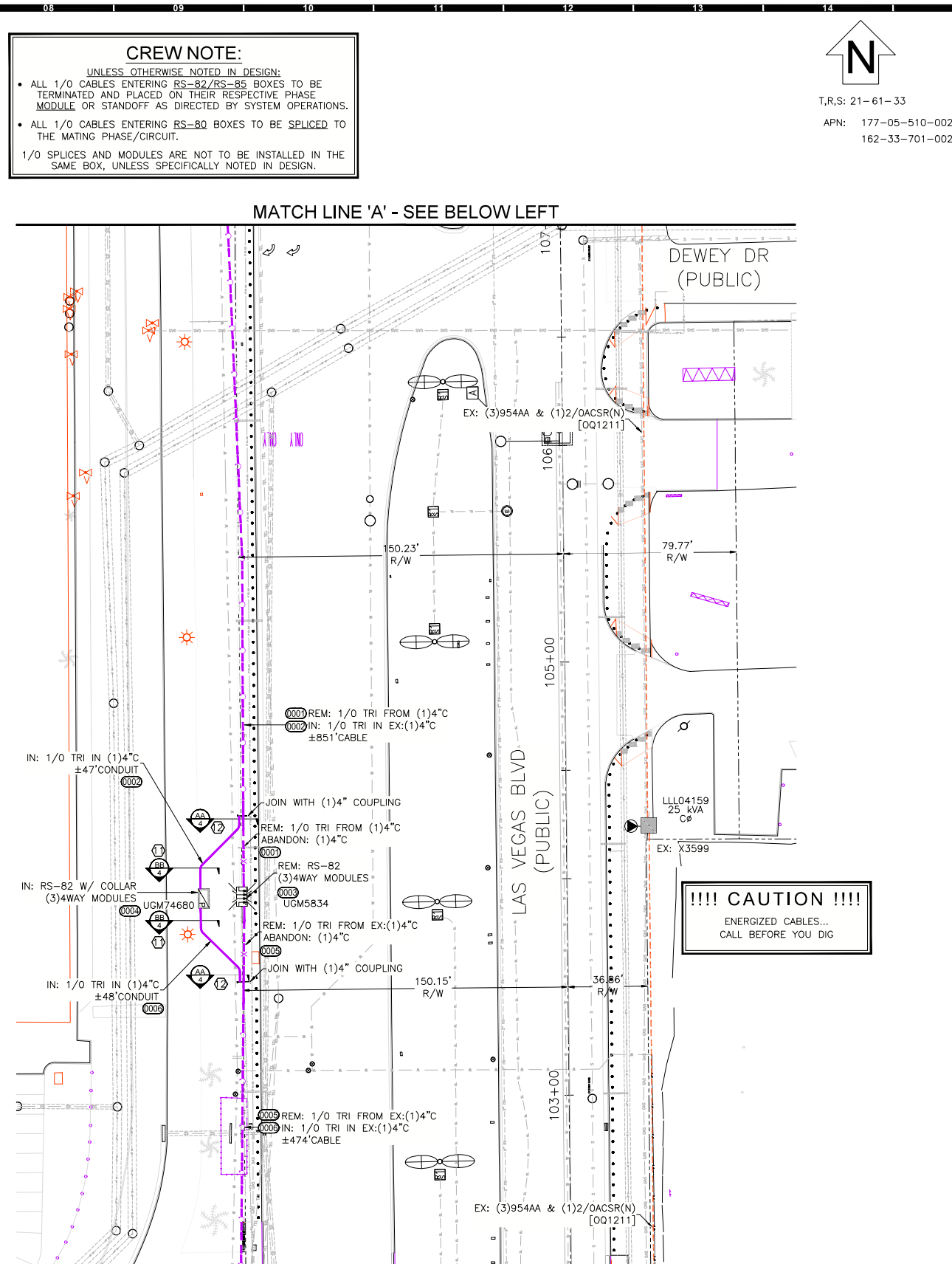
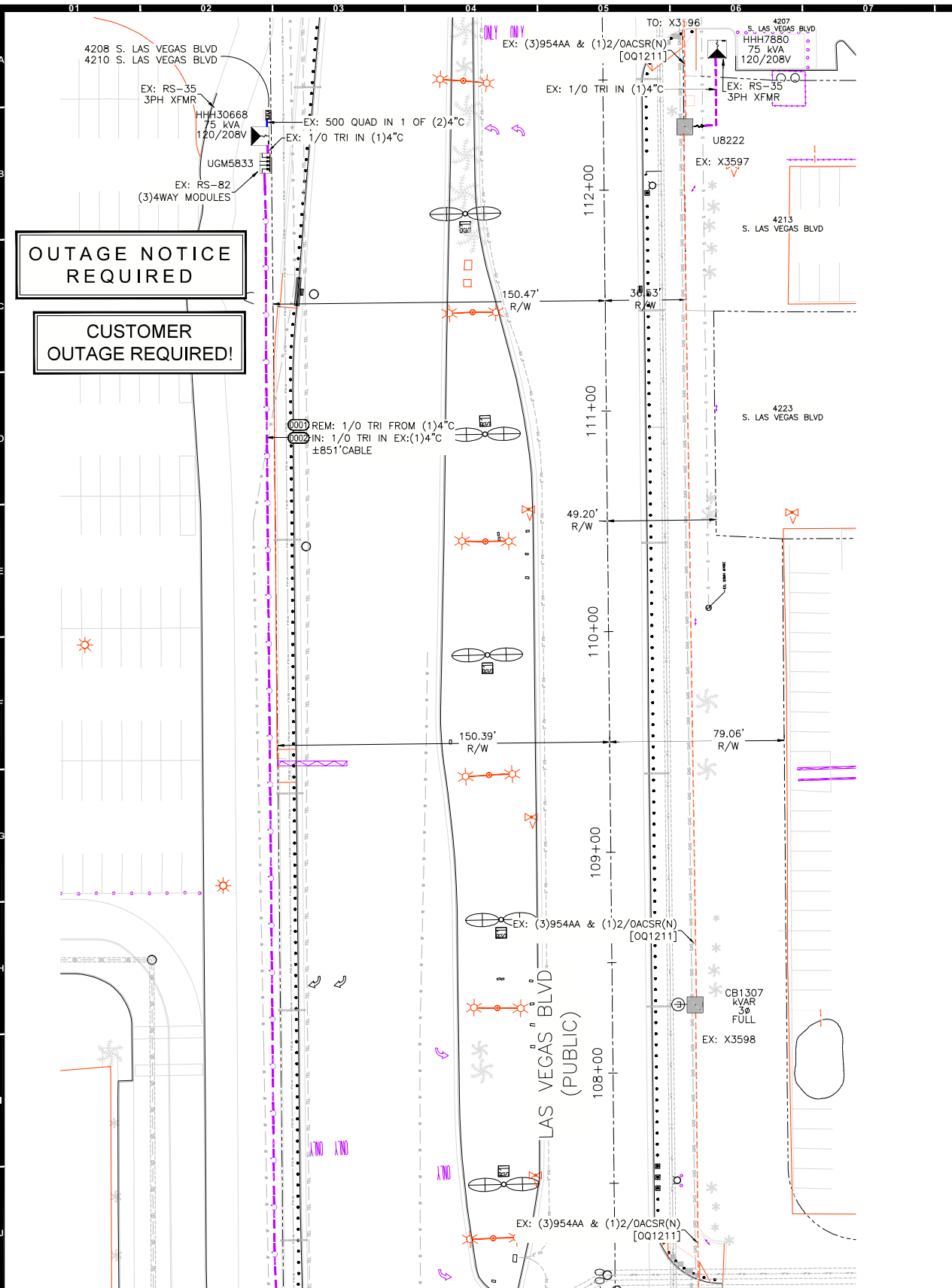
**EXHIBIT 'A'**

**NVENERGY INFORMATION:**  
COORDINATOR: JACKSON, DON  
PHONE: (702) 236-3259 D.F. KL  
DESIGNER: MARTINEZ, JONATHAN  
DCA: N/A  
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM  
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118  
DISTRICT: LAS VEGAS NORTH DISTRICT  
**JPA INFORMATION:**  
JPA ADMIN PHONE: (702) 595-2551 JPA#: P201217874  
**CUSTOMER INFORMATION:**  
APPLICANT: COUNTY OF CLARK  
APPLICANT CONTACT: YAZDANI, KAIZAD  
CONTACT: PAVELKA, ALLAN \*\* 702-804-2070  
APPROVAL DATE: 9/23/2020  
**GOVERNMENT INFORMATION:**  
AGENCY(S): CLARK  
APPROVAL DATE(S): N/A

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

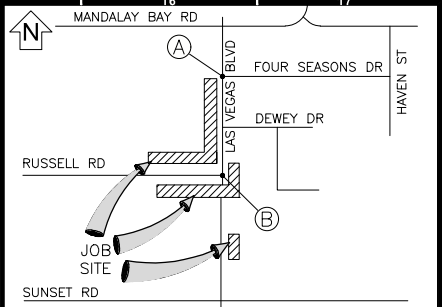
**NV Energy**  
CC-LAS VEGAS BLVD.(CC215 TO RUSSELL) PH. B  
LAS VEGAS BLVD. BETWEEN RUSSELL AND CC21  
PROJ #3005699561 | SCALE: 1"=30'  
SHEET # 1 OF 4 | DATE: 6/2/2020





**CREW NOTE:**  
 UNLESS OTHERWISE NOTED IN DESIGN:  
 • ALL 1/0 CABLES ENTERING RS-82/RS-85 BOXES TO BE TERMINATED AND PLACED ON THEIR RESPECTIVE PHASE MODULE OR STANDOFF AS DIRECTED BY SYSTEM OPERATIONS.  
 • ALL 1/0 CABLES ENTERING RS-80 BOXES TO BE SPLICED TO THE MATING PHASE/CIRCUIT.  
 1/0 SPLICES AND MODULES ARE NOT TO BE INSTALLED IN THE SAME BOX, UNLESS SPECIFICALLY NOTED IN DESIGN.

N  
 T,R,S: 21-61-33  
 APN: 177-05-510-002  
 162-33-701-002



**VICINITY MAP**  
 (NOT TO SCALE)  
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**REVISIONS**

NO.	DESCRIPTION	DATE	REV BY

**NON-STANDARD PROJECT PURPOSE:**  
 TO REMOVE AND RELOCATE NVE FACILITIES DUE TO CLARK COUNTY PUBLIC WORKS PROJECT

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 COORDINATOR: JACKSON, DON  
 PHONE: (702) 236-3259 D.F. KL  
 DESIGNER: MARTINEZ, JONATHAN  
 DCA: N/A  
 INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM  
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 AGENCY(S): CLARK  
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**OUTAGE NOTICE REQUIRED**  
**CUSTOMER OUTAGE REQUIRED!**

**!!!! CAUTION !!!!**  
 ENERGIZED CABLES...  
 CALL BEFORE YOU DIG

**NIGHT TIME OUTAGE:**

ADDRESS(ES):	METER QTY:
2102 W. RUSSELL RD	1
2324 W. RUSSELL RD	1
2330 W. RUSSELL RD	1
2349 W. RUSSELL RD	1
2489 W. RUSSELL RD	1
2589 W. RUSSELL RD	1
2649 W. RUSSELL RD	1

**NIGHT TIME OUTAGE:**

ADDRESS(ES):	METER QTY:
3940 S. LAS VEGAS BLVD	1
4208 S. LAS VEGAS BLVD	1
4210 S. LAS VEGAS BLVD	1
4810 S. LAS VEGAS BLVD	1
4850 S. LAS VEGAS BLVD	1
4860 S. LAS VEGAS BLVD	1
5150 S. LAS VEGAS BLVD	1
5000 S. LAS VEGAS BLVD	1
5160 S. LAS VEGAS BLVD	1

**JOB SITE #1**  
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 NIGHT WORK: YES  NO   
 ENCROACHMENT PERMIT # \_\_\_\_\_  
 APPROVAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_

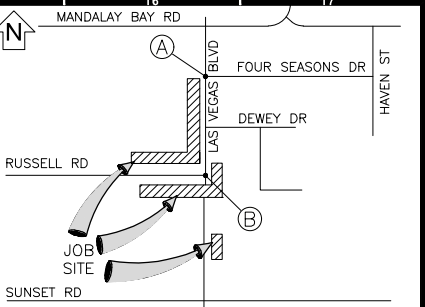
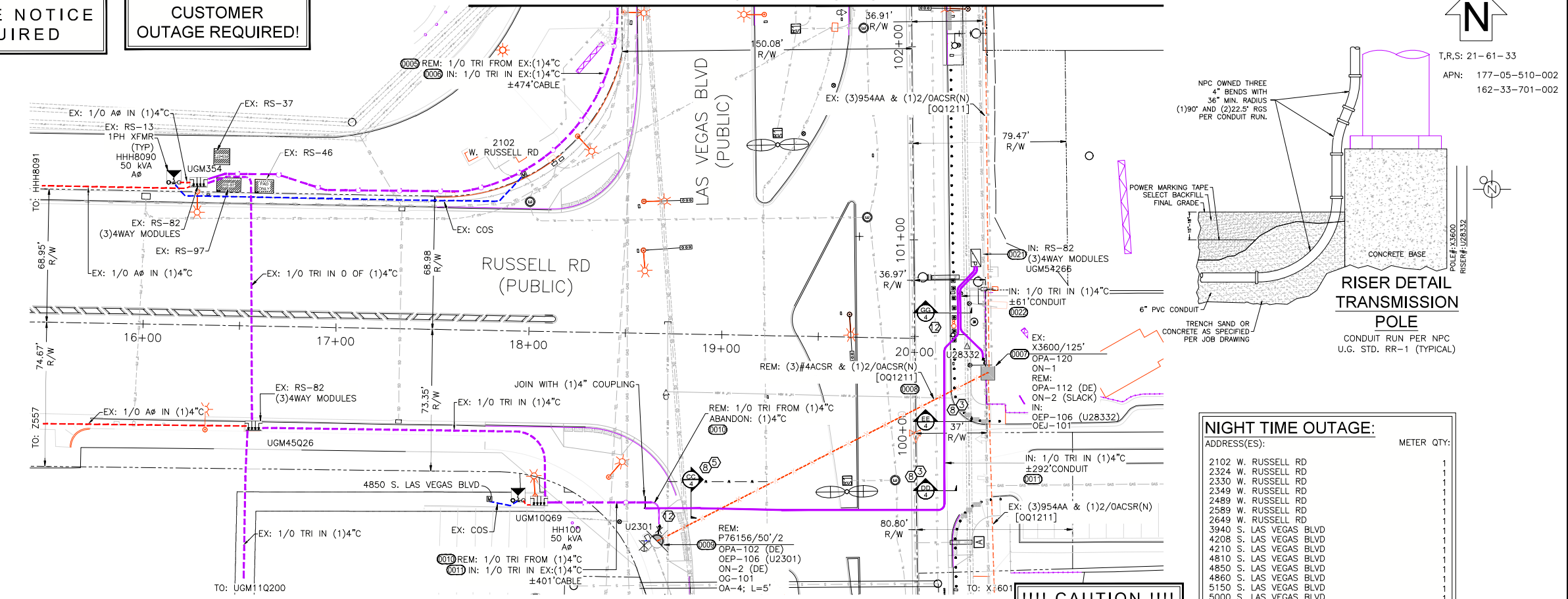
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**CC-LAS VEGAS BLVD.(CC215 TO RUSSELL) PH. B**  
**LAS VEGAS BLVD. BETWEEN RUSSELL AND CC21**  
 PROJ #3005699561 SCALE: 1"=30'  
 SHEET # 2 OF 4 DATE: 6/2/2020

**OUTAGE NOTICE REQUIRED**

**CUSTOMER OUTAGE REQUIRED!**

MATCH LINE 'B' - SEE SHEET 2



**VICINITY MAP**  
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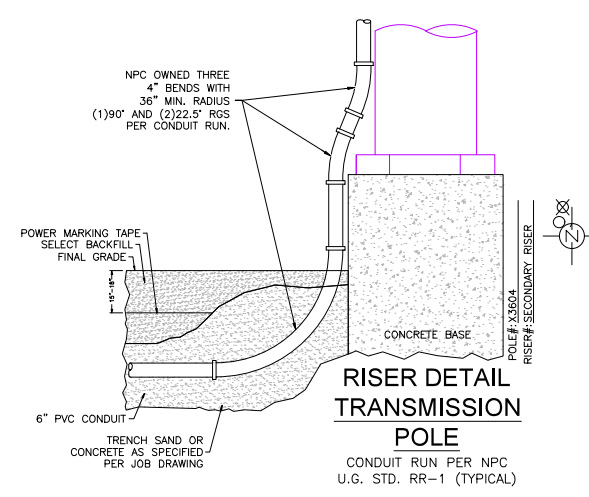
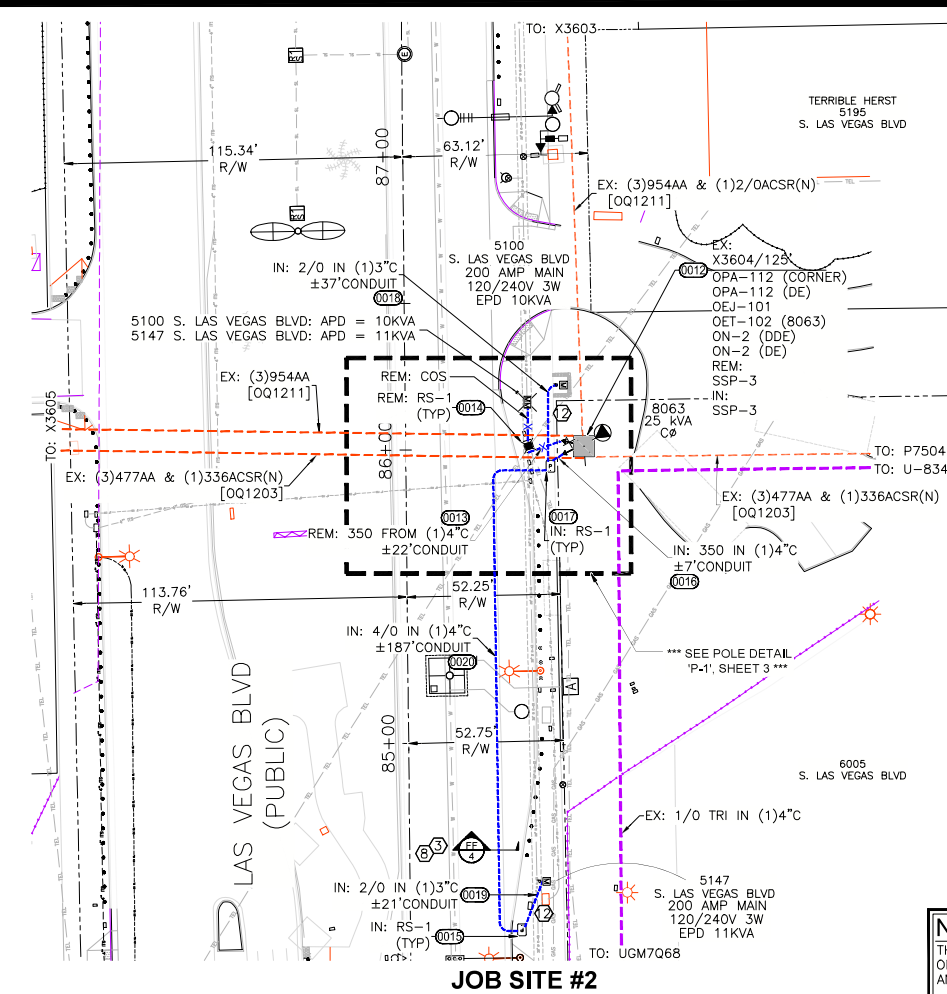


**NIGHT TIME OUTAGE:**

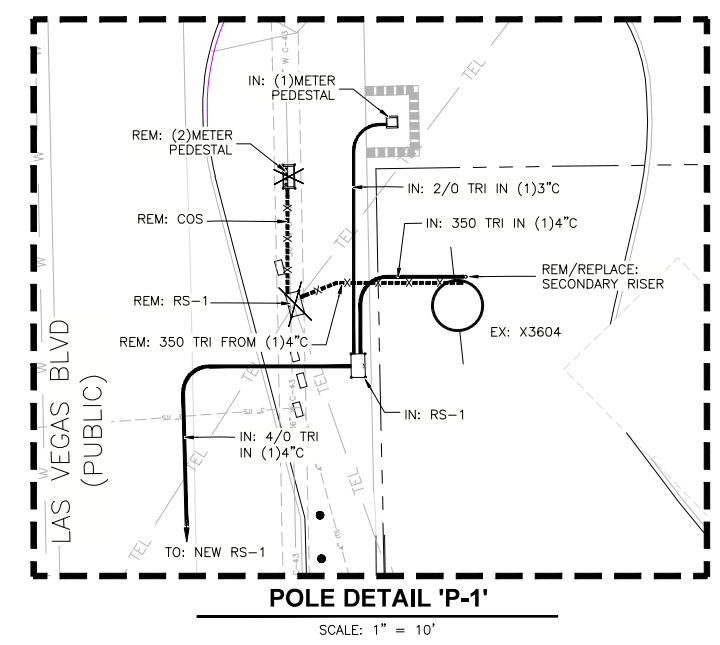
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**JOB SITE #1**



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NIGHT WORK: YES  NO

ENCROACHMENT PERMIT # \_\_\_\_\_

APPROVAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED\*

DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY

PW# \_\_\_\_\_ # \_\_\_\_\_

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APPROVAL DATE(S): N/A

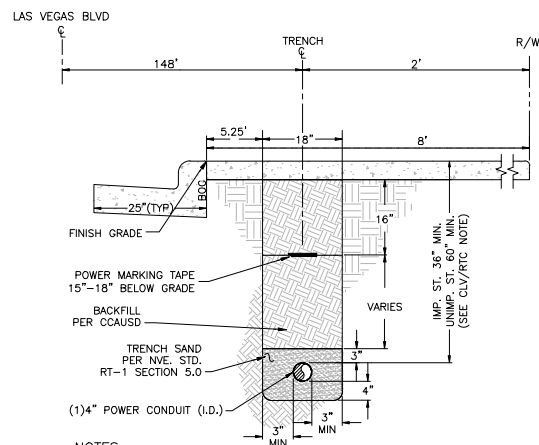
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**NVEnergy**

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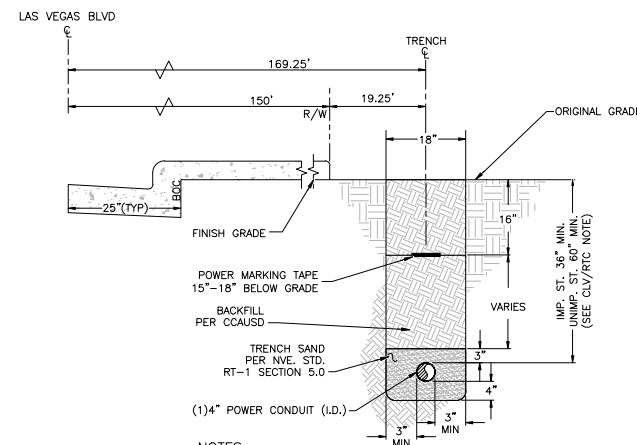
PROJ #3005699561 SCALE: 1"=30'  
SHEET # 3 OF 4 DATE: 6/2/2020





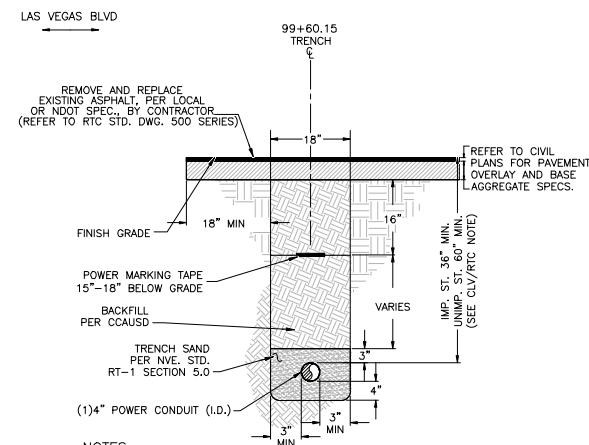
**NOTES:**  
 REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON, CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 234):  
 SIDEWALK  
 1. ON ALL CURB RETURNS A 1/2" EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.  
 2. THE TYPE II AGGREGATE BASE THICKNESS IS SHOWN ON THE TYPICAL SECTION DRAWINGS 202 - 207.  
 3. LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.  
 COH JURISDICTION:  
 FOR ALL AREAS EXCEPT NVENERGY PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.  
 NVE REQUIREMENTS:  
 FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.  
 BACKFILL REQUIREMENTS NVE. STD. RT-1.  
 TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "AA"



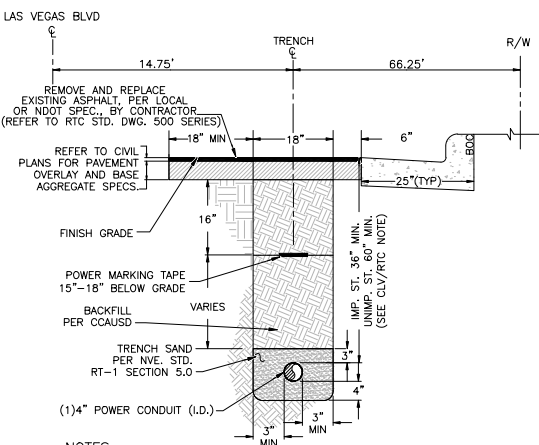
**NOTES:**  
 REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON, CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 503, 503.1 & 503.2):  
 METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS  
 1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.  
 2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.  
 3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.  
 4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.  
 COH JURISDICTION:  
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**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "BB"



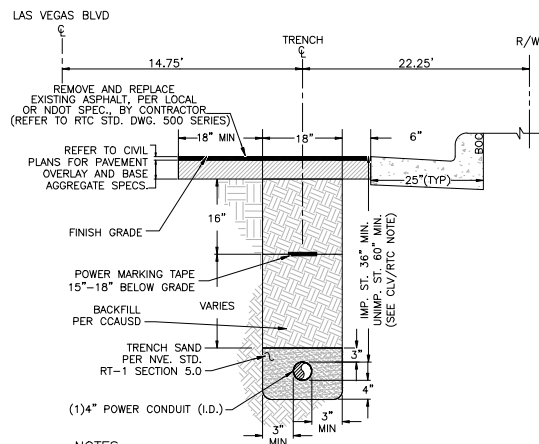
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**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "CC"



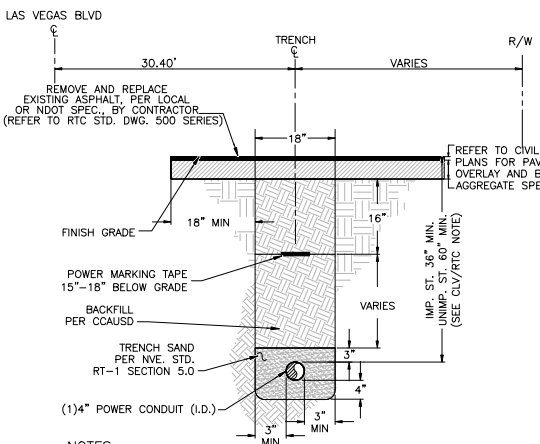
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**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "DD"



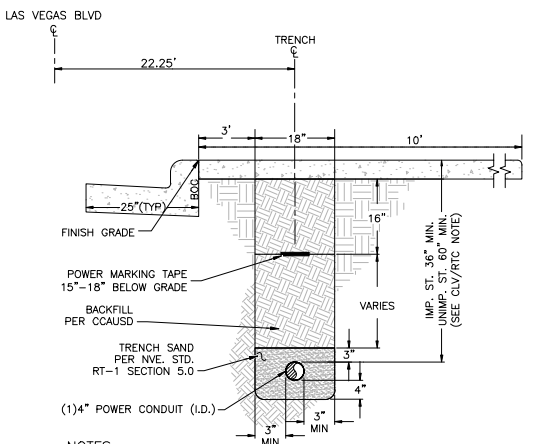
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 BACKFILL REQUIREMENTS NVE. STD. RT-1.  
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**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "EE"



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**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "FF"



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 NVE REQUIREMENTS:  
 FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.  
 BACKFILL REQUIREMENTS NVE. STD. RT-1.  
 TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

**TRENCH DETAIL**  
 1-4" CONDUITS  
 SECTION "GG"

CENTERLINE STATION TABLE						
#	STREET INTERSECTION	STA	HEADED			
(A)	FOUR SEASONS DR	20+00.00	EAST			
	LAS VEGAS BLVD	113+80.32	NORTH			
(B)	RUSSELL RD	20+00.00	EAST			
	LAS VEGAS BLVD	100+49.03	NORTH			

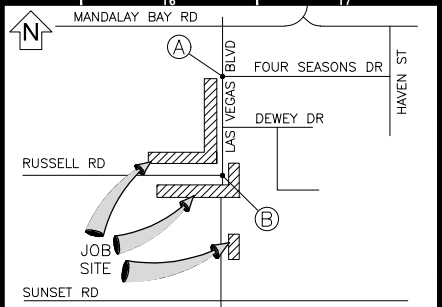
  

STATION TABLE						
MAXIMO STATION	CORNER	CENTER LINE STATION	SIDE TO BOC	OFFSET CL TO ROW	OFFSET CL TO SUBSTRUCTURE	SUBSTRUCTURE INFORMATION
(C00)	NORTH	103+96.37	LT	142.23	150.16	RS-82 - 7.67' X 3.67' W/67' COLLAR OPERATING NUMBER: UGM74680 PAGE NUMBER: 2 EASEMENT NUMBER: FUTURE TYP. EASEMENT LAYOUT: FUTURE
	SOUTH	103+88.70	LT	142.23	150.16	165.95'
(C02)	NORTH	100+87.67	RT	18.50	30.25	79.60'
	SOUTH	100+86.00	RT	18.50	30.25	79.60'

**APPROVED FOR PERMITTING**  
 THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.  
 NIGHT WORK: YES  NO   
 ENCROACHMENT PERMIT # \_\_\_\_\_  
 APPROVAL BY: \_\_\_\_\_ DATE \_\_\_\_\_

CLARK COUNTY PUBLIC WORKS  
 PERMIT REQUIRED\*  
 DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY  
 PW# \_\_\_\_\_ # \_\_\_\_\_  
 DATE \_\_\_\_\_ # \_\_\_\_\_  
 \* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE WITHIN COUNTY RIGHT-OF-WAY  
 ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR

**NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)**  
 THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING DONE ON THIS PROJECT BY NV ENERGY CREWS WILL BE PERFORMED AT NIGHT TIME AND WILL REQUIRE TRAFFIC CONTROL.  
 GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.



**VICINITY MAP**  
 (NOT TO SCALE)  
 EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.  
 AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
 CALL BEFORE YOU DO OVERHEAD  
 CALL 1-702-402-2829  
 Call before you Dig  
 Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
 OR  
 1-800-227-2600  
 AND CLARK COUNTY TRAFFIC OPERATIONS  
 1-702-455-6000

**REVISIONS**

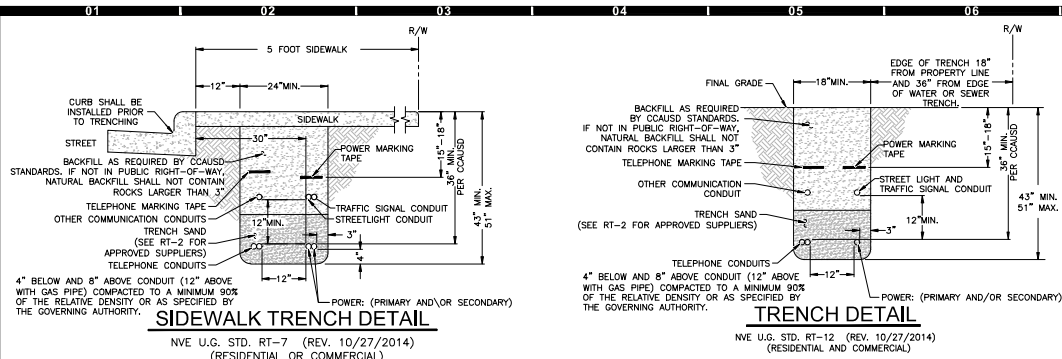
NO.	DESCRIPTION	DATE	REV BY

**NON-STANDARD PROJECT PURPOSE:**  
 TO REMOVE AND RELOCATE NVE FACILITIES DUE TO CLARK COUNTY PUBLIC WORKS PROJECT

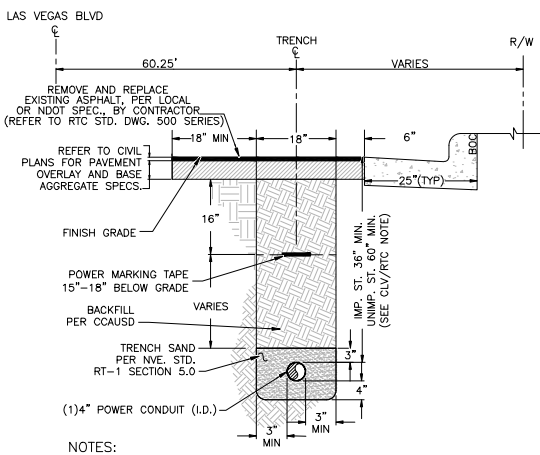
**EXHIBIT 'A'**  
 NVEnergy INFORMATION:  
 COORDINATOR: JACKSON, DON  
 PHONE: (702) 236-3259 D.F. KL  
 DESIGNER: MARTINEZ, JONATHAN  
 DCA: N/A  
 INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM  
 STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118  
 DISTRICT: LAS VEGAS NORTH DISTRICT  
 JPA INFORMATION:  
 JPA ADMIN PHONE: (702) 595-2551 JPA#: P201217874  
 CUSTOMER INFORMATION:  
 APPLICANT: COUNTY OF CLARK  
 APPLICANT CONTACT: YAZDANI, KAIZAD  
 CONTACT: PAVELKA, ALLAN \*\* 702-804-2070  
 APPROVAL DATE: 9/23/2020  
 GOVERNMENT INFORMATION:  
 AGENCY(S): CLARK  
 APPROVAL DATE(S): N/A  
 FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

**NVEnergy**  
 CC-LAS VEGAS BLVD.(CC215 TO RUSSELL) PH. B  
 LAS VEGAS BLVD. BETWEEN RUSSELL AND CC21  
 PROJ #3005699561 SCALE: 1"=30'  
 SHEET # 4 OF 4 DATE: 6/2/2020





TRANSFORMER CONNECTED LOAD		
TRANSFORMER #: HHH8090		
APD	EPD	TOTAL
5	19	24



**GENERAL NOTES:**  
ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFORESAID CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETE 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.

2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRELED PRIOR TO FINAL RELEASE.

WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

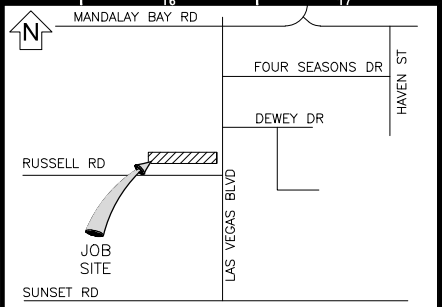
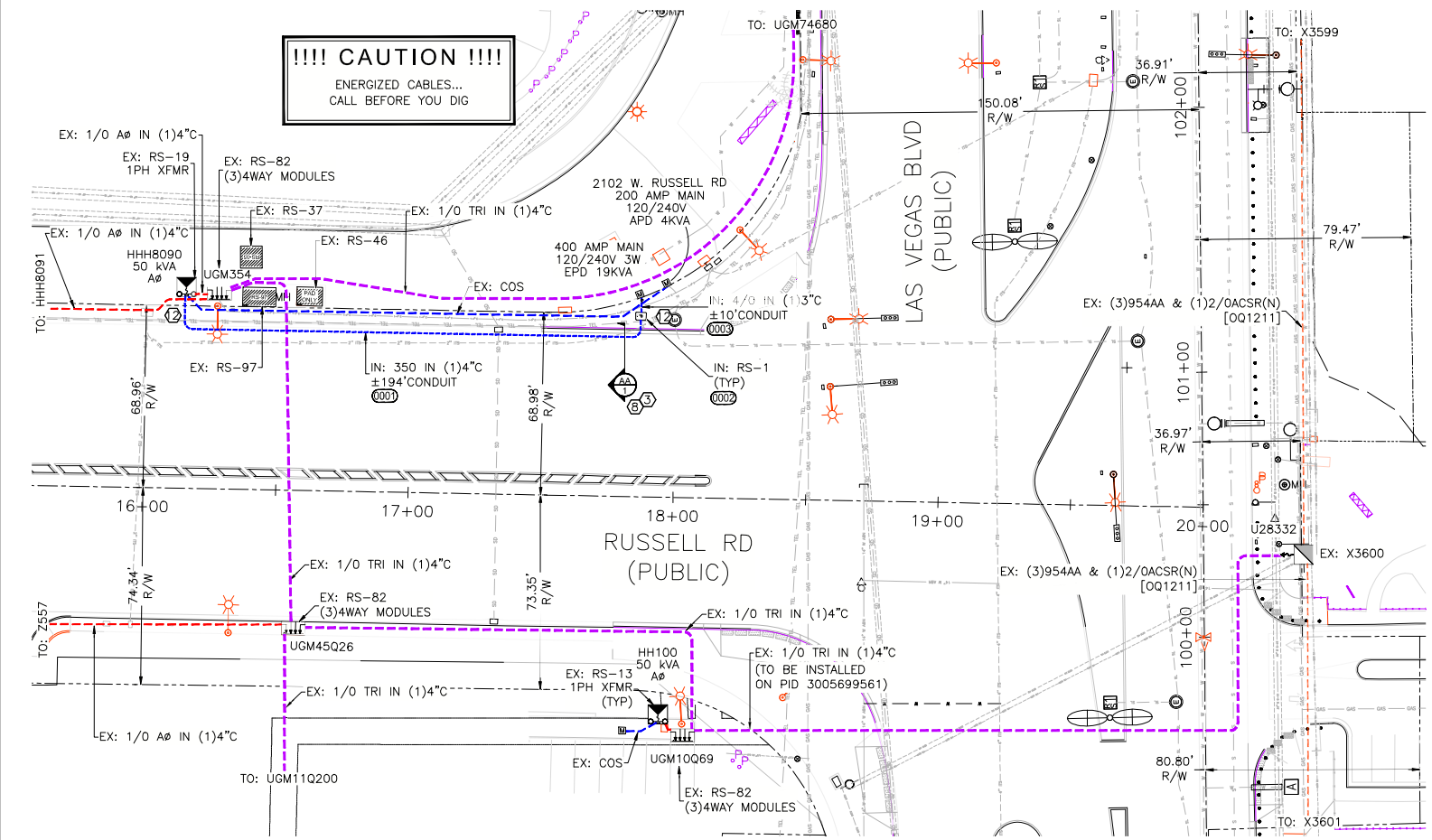
**NOTES:**

REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON, CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 503.1 & 503.2):  
METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS

- NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
- TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
- CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
- LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITH THE PIPE ZONE TO BE OF THE SAME MATERIAL.

**SOIL JURISDICTION:**  
FOR ALL AREAS EXCEPT NVEnergy PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.

**NVE REQUIREMENTS:**  
FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS. BACKFILL REQUIREMENTS NVE. STD. RT-1. TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.



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CALL BEFORE YOU DO OVERHEAD

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**CALL 811**

OR  
1-800-227-2600  
AND CLARK COUNTY TRAFFIC OPERATIONS  
1-702-455-6000

**REVISIONS**

NO.	DESCRIPTION	DATE	REV BY

**NON-STANDARD PROJECT PURPOSE:**

TO PROVIDE 1ø 120/240V POWER TO (1)200A S/L PEDESTAL

**EXHIBIT 'A'**

**NVEnergy INFORMATION:**  
COORDINATOR: JACKSON, DON  
PHONE: (702) 236-3259 D.F. KL  
DESIGNER: MARTINEZ, JONATHAN  
DCA: N/A  
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM  
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118  
DISTRICT: LAS VEGAS NORTH DISTRICT

**JPA INFORMATION:**  
JPA ADMIN PHONE: N/A JPA#: N/A  
CUSTOMER INFORMATION:  
APPLICANT: COUNTY OF CLARK  
APPLICANT CONTACT: YAZDANI, KAIZAD  
CONTACT: PAVELKA, ALLEN \*\* 702-804-2070  
APPROVAL DATE: 11/19/2020

**GOVERNMENT INFORMATION:**  
AGENCY(S): CLARK  
APPROVAL DATE(S): N/A

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

**NOTICE:**  
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**CUSTOMER NOTE:**  
UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMERS CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

**FIRE HYDRANT CLEARANCE:**  
6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.  
6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVEnergy STD. RS-5

**METER LOCATION & ACCESS REQUIREMENTS**  
(NVE ENERGY STANDARDS RPI-2 & RPI-G)

MIN. 3'x3' CLEAR, LEVEL SPACE (SAFE WORK SPACE) REQUIRED DIRECTLY IN FRONT OF METER. THIS SPACE SHALL NOT BE PART OF A DRIVEWAY OR SUBJECT TO VEHICULAR TRAFFIC.

SERVICE POINT TO BE NO GREATER THAN 100' FROM BACK OF CURB OR PUBLIC EASEMENT (NO GREATER THAN 25' FROM SIDE STREET OR ALLEY).

A SERVICE PEDESTAL MUST BE 5' MIN. FROM BACK OF CURB, 6' MIN FROM DRIVEWAY OR OTHER TRAFFIC AREA.

BOTH SERVICE POINT AND SAFE WORK SPACE TO BE DIRECTLY VISIBLE FROM BACK OF CURB OR PUBLIC EASEMENT, AND MUST BE READILY ACCESSIBLE TO NV ENERGY AT ALL TIMES WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT. FENCES, GATES, WALLS, OR OTHER OBSTRUCTIONS IN FRONT OF THE SERVICE POINT ARE PROHIBITED.

VISIBILITY, ACCESSIBILITY, AND SAFE WORK SPACE MUST BE MAINTAINED FOR THE ENTIRE LIFE OF THE SERVICE.

**CONSTRUCTION / INSPECTION REQUIREMENTS**  
WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: [www.nveenergy.com/business/newconstruction/newconstruction5/servicestandards.cfm](http://www.nveenergy.com/business/newconstruction/newconstruction5/servicestandards.cfm)

NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:

- BOTTOM SAND AND CONDUIT INSTALLED
- TOP SAND INSTALLED
- BACKFILL INSTALLED

CONDUIT MUST BE MANDRELED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).

NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.

NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:

- [INSURUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. ([submitmeter\\_southern@nveenergy.com](mailto:submitmeter_southern@nveenergy.com))
- APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: [www.nveenergy.com/brochures\\_arch/new\\_construction/meter\\_set.pdf](http://www.nveenergy.com/brochures_arch/new_construction/meter_set.pdf)
- THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
- METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: [www.nveenergy.com/business/newconstruction/newconstruction5/developerdashboard.cfm](http://www.nveenergy.com/business/newconstruction/newconstruction5/developerdashboard.cfm)

**APPROVED FOR PERMITTING**  
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NIGHT WORK: YES  NO

ENCROACHMENT PERMIT # \_\_\_\_\_

# \_\_\_\_\_ DATE \_\_\_\_\_

**CIVIL LINETYPE LEGEND**

CENTERLINE  
PROPERTY LINE/R/W  
CURB  
EDGE OF PAVEMENT  
EDGE OF SIDEWALK  
SEWER LINE  
WATER LINE  
COHW WATER LINE  
LVWWD WATER LINE  
SNWA WATER LINE  
GAS LINE  
TELEPHONE LINE  
CABLE TV LINE  
STORM DRAIN LINE  
FIRE HYDRANT  
SIGNAL LIGHT  
STREET LIGHT

**RTC NOTES:**  
BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

- 500.1 0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
- 500.2 0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
- 500.3 OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
- 500.4 OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
- 500.5 OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
- 501 TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
- 501.1 TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
- 503 METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
- 503.1 METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
- BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.
- 234 SIDEWALK
- 506 UTILITY POTHOLE REPAIR
- 216 "L" TYPE CURB AND GUTTER

**STREETLIGHT CLEARANCE:**  
NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

**NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)**  
THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING DONE ON THIS PROJECT BY NV ENERGY CREWS WILL BE PERFORMED AT NIGHT TIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

**NVEnergy**

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED\*

DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY

PW# \_\_\_\_\_ DATE \_\_\_\_\_

\* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE WITHIN COUNTY RIGHT-OF-WAY

ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR

CC-S190103 LAS VEGAS BLVD, CC-215 SOUTH TO RUSSELL ROAD (PHASE B)-SERVICE  
NWC OF LAS VEGAS AND RUSSELL  
PROJ #3005977385 SCALE: 1"=30'  
SHEET # 1 OF 1 DATE: 8/21/2020



**CUSTOMER NOTE:**  
UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMERS CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

**CONDUIT SEALING REQUIREMENT:**  
CONDUIT SEALING PER NESC AND/OR NEC LATEST VERSION. ALL ELECTRIC CONDUITS ENTERING BUILDING THROUGH OR PENETRATING CONCRETE SLAB SHALL BE SEALED AT BOTH ENDS WITH EXPANDING PLUG(S) AFTER CONDUIT IS MANDRILLED. NVE WILL INSTALL A PERMANENT SEAL AFTER CONDUCTORS ARE INSTALLED.

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**TRANSMISSION REQUIREMENTS**  
COMPLIANCE WITH ALL NESC AND OSHA REQUIREMENTS. MATERIALS AND EQUIPMENT CANNOT BE STOCKPILED UNDER LINES. POLE BOLLARDS ARE REQUIRED AND SHALL BE INSTALLED BY THE OWNER IF PARKING IS WITHIN 10' OF ANY TRANSMISSION STRUCTURE. A 40'X40' SQUARE MUST BE MAINTAINED ON ONE SIDE OF A TANGENT STRUCTURE AND A 20'X20' SQUARE AROUND A DEAD END STRUCTURE TO ALLOW ACCESS FOR MAINTENANCE PURPOSES. CUSTOMER MUST OBTAIN PRIOR APPROVAL FROM TRANSMISSION ENGINEERING FOR FUTURE PROJECTS AND ANY CHANGES OR REVISIONS TO THIS PROJECT INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:  
• PARKING OR STORAGE OF VEHICLES EXCEEDING 8' IN HEIGHT  
• COVERED PARKING  
• PARKING LIGHTS  
• METALLIC FENCES OR BLOCK WALLS  
• TRASH ENCLOSURES  
• BUILDINGS OR STRUCTURES AND FREE STANDING SIGNS  
• SWIMMING POOLS  
• PINE AND PALM TREES  
• ELEVATION OR GRADE CHANGES  
CONTRACTOR SHALL MAINTAIN RADIUS OF 10' PLUS 1:1 SLOPE OF UNDISTURBED SOIL AROUND POLES OR CONTRACTOR WILL NEED TO PROVIDE FOR TRENCH SHORING AND/OR BRACING. CONTRACTOR MAY OBTAIN WAIVER FROM NVE CONSTRUCTION SUPERVISOR.

**METER LOCATION & ACCESS REQUIREMENTS**  
(NV ENERGY STANDARDS RPI-15 & RPI-G)  
THIS STANDARD SPECIFIES THE REQUIREMENTS FOR THE LOCATION OF ALL NVENERGY (NVE) METERS AND SERVICE EQUIPMENT WITH THE EXCEPTION OF SINGLE-FAMILY RESIDENTIAL METERS (SEE RPI-2 FOR RESIDENTIAL METERS). REQUIREMENTS IN THIS STANDARD FACILITATE ACCESS TO SERVICE EQUIPMENT BY NVE PERSONNEL FOR PERFORMING OPERATIONS AND MAINTENANCE FUNCTIONS AS WELL AS FOR FIRE AND POLICE AGENCIES IN EMERGENCY SITUATIONS.  
METER AND SERVICE ENTRANCE INSTALLATIONS MUST CONFORM TO THE LATEST REVISIONS OF RPI-G AND SPECIFICALLY, THE "METER ACCESS" AND "METER LOCATIONS" SECTIONS OF RPI-G. THE STANDARD SERVICE POINT WILL BE LOCATED AT THE CORNER OF THE BUILDING NEAREST THE NV ENERGY SUPPLY. ALTERNATE SERVICE POINTS AND METER ROOMS, ALTHOUGH NOT PREFERRED, MAY, AT THE DISCRETION OF NVE, BE ALLOWED PROVIDED THAT THEY MEET THE REQUIREMENTS OF SECTION 6 "ACCESS TO SERVICE EQUIPMENT" AND SECTION 8 "METER ROOMS".  
ELECTRIC METER AND SERVICE EQUIPMENT INSTALLATIONS MUST BE READILY ACCESSIBLE TO AUTHORIZED REPRESENTATIVES OF NVE FOR READING, TESTING, AND INSPECTION AT ALL TIMES. CUSTOMER CONTACT WILL NOT BE REQUIRED FOR METER READING. PERMANENT VEHICLE ACCESS TO THE SERVICE EQUIPMENT IS REQUIRED FOR THE INSTALLATION AND MAINTENANCE OF SERVICE CABLES AND METERING EQUIPMENT.  
THE SERVICE EQUIPMENT MUST BE ACCESSIBLE 24 HOURS/7 DAYS WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT.  
SERVICES 600V AND LESS, THE VEHICLE ACCESS WILL BE A MINIMUM 12' WIDE, 20' HIGH DIRECT PATH TO THE METERING EQUIPMENT.  
ALL SERVICES GREATER THAN 600V (PRIMARY SERVICE) OR WHERE THE SERVICES INCLUDE THE INSTALLATION OF THREE-PHASE TRANSFORMERS, SWITCH OR FUSE CABINETS, CAPACITOR BANKS, OR OTHER LARGE EQUIPMENT, THE VEHICLE ACCESS WILL BE A MINIMUM 23' WIDE, WITH NO OVERHEAD OBSTRUCTION.

**RTC NOTES:**

①	500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
②	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
③	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
④	500.4	OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
⑤	500.5	OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
⑥	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
⑦	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
⑧	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
⑨	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
⑩		BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.
⑪	234	SIDEWALK
⑫	224	COMMERCIAL DRIVEWAY CROSSINGS
⑬	216	"L" TYPE CURB AND GUTTER
⑭	228	CROSS GUTTER
⑮	235	ADA SIDEWALK RAMP
⑯	506	UTILITY POT HOLE REPAIR

**NVENERGY REQUIRES 24 HOUR ACCESS TO EQUIPMENT**  
**CONSTRUCTION / INSPECTION REQUIREMENTS**  
WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: [www.nvenergy.com/business/newconstruction/newconstructionS/servicesstandards.cfm](http://www.nvenergy.com/business/newconstruction/newconstructionS/servicesstandards.cfm)  
NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:  
1. BOTTOM SAND AND CONDUIT INSTALLED  
2. TOP SAND INSTALLED  
3. BACKFILL INSTALLED  
CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).  
NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.  
NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.  
METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:  
• (INSTRUMENT-RATED ONLY) METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submit to: [southern@nvenergy.com](mailto:southern@nvenergy.com))  
• APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: [www.nvenergy.com/brochures\\_arch/new\\_construction/meter\\_set.pdf](http://www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf)  
• THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.  
• METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).  
TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: [www.nvenergy.com/business/newconstruction/newconstructionS/developerdashboard.cfm](http://www.nvenergy.com/business/newconstruction/newconstructionS/developerdashboard.cfm)

**METER LOCATION & ACCESS REQUIREMENTS**  
(NV ENERGY STANDARDS RPI-2 & RPI-G)  
MIN. 3'X3' CLEAR, LEVEL SPACE (SAFE WORK SPACE) REQUIRED DIRECTLY IN FRONT OF METER. THIS SPACE SHALL NOT BE PART OF A DRIVEWAY OR SUBJECT TO VEHICULAR TRAFFIC.  
SERVICE POINT TO BE NO GREATER THAN 100' FROM BACK OF CURB OR PUBLIC EASEMENT (NO GREATER THAN 25' FROM SIDE STREET OR ALLEY).  
A SERVICE PEDESTAL MUST BE 5' MIN. FROM BACK OF CURB, 6' MIN FROM DRIVEWAY OR OTHER TRAFFIC AREA.  
BOTH SERVICE POINT AND SAFE WORK SPACE TO BE DIRECTLY VISIBLE FROM BACK OF CURB OR PUBLIC EASEMENT, AND MUST BE READILY ACCESSIBLE TO NV ENERGY AT ALL TIMES WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT. FENCES, GATES, WALLS, OR OTHER OBSTRUCTIONS IN FRONT OF THE SERVICE POINT ARE PROHIBITED.  
VISIBILITY, ACCESSIBILITY, AND SAFE WORK SPACE MUST BE MAINTAINED FOR THE ENTIRE LIFE OF THE SERVICE.

**TRANSFORMER CONNECTED LOAD**

TRANSFORMER #:	HH436	
APD	EPD	TOTAL
C @ 4	34	38

**STREETLIGHT CLEARANCE:**  
NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

**FIRE HYDRANT CLEARANCE:**  
6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.  
6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVENERGY STD. RS-5

**CLARK UTILITIES NOTE:**  
NVE TO MAINTAIN 12" MINIMUM DISTANCE BOTH HORIZONTAL AND VERTICAL TO ALL WATER MAIN/LATERALS, BOTH CROSSING AND PARALLEL. NVE TO MAINTAIN 10' MINIMUM HORIZONTAL AND 2' MINIMUM VERTICAL DISTANCE TO ALL SANITARY SEWER MAIN/LATERALS.  
Per Section 2.04.06 of the Uniform Design And Construction Standards for Potable Water Systems (UDACS) and section 2.3.12 of the Design and Construction for Wastewater Collection Systems (DCSWCS).

**NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)**  
THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING PERFORMED ON THIS PROJECT BY NV ENERGY CREWS CAN BE DONE DURING THE DAYTIME AND WILL REQUIRE TRAFFIC CONTROL.  
GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

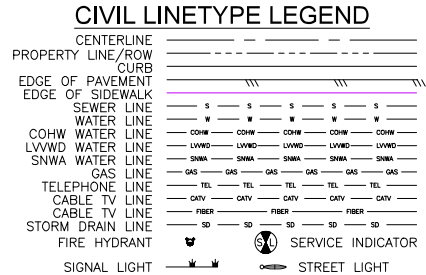
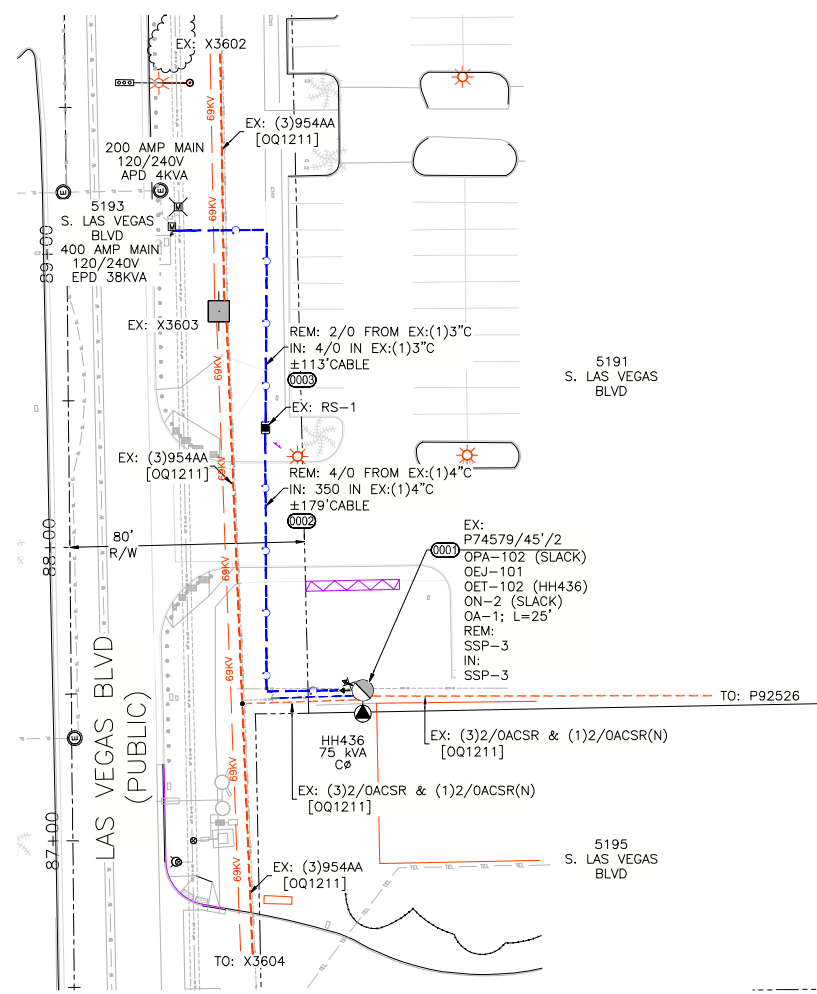
**OUTAGE NOTICE REQUIRED**

**CUSTOMER OUTAGE REQUIRED!**

**DAY TIME OUTAGE:**  
ADDRESS(ES): 5193 S LAS VEGAS BLVD  
METER QTY: 1

**!!! CAUTION !!!**  
ENERGIZED CABLES... CALL BEFORE YOU DIG

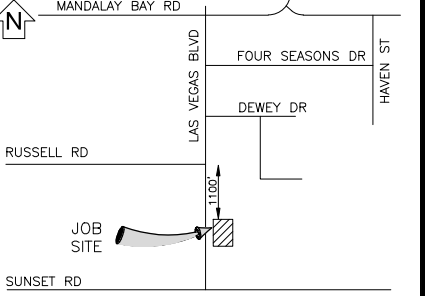
**APPROVED FOR PERMITTING**  
THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.  
NIGHT WORK: YES  NO   
ENCROACHMENT PERMIT # \_\_\_\_\_  
# \_\_\_\_\_ DATE \_\_\_\_\_



T,R,S: 21-61-33  
APN: 162-33-201-006

**GENERAL NOTES:**  
ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVENERGY ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVENERGY STANDARDS.  
THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVENERGY UNDERGROUND & ELECTRICAL INSPECTORS.  
ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVENERGY. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.  
SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.  
THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.  
APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.  
USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.  
CALL NVENERGY UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.  
ALL NVENERGY CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.  
APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.  
ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.  
ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETED 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.  
2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')  
3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')  
6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')  
WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.  
DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVENERGY STANDARDS.  
EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVENERGY DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.  
PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.  
WHEN NVENERGY FACILITIES ARE TO BE REMOVED, NVENERGY WILL REMOVE ALL WIRES AND EQUIPMENT. NVENERGY IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.  
NO COVERED PARKING IN FRONT OF EQUIPMENT.  
ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.



**EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.**  
Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
CALL 811  
OR  
1-800-227-2600  
AND CLARK COUNTY TRAFFIC OPERATIONS  
1-702-455-6000

**REVISIONS**

NO.	DESCRIPTION	DATE	REV BY

**NON-STANDARD PROJECT PURPOSE:**

TO REMOVE & REPLACE SECONDARY AND SERVICE WIRE DUE TO PEDESTAL UPGRADE

**EXHIBIT 'A'**  
NVENERGY INFORMATION:  
COORDINATOR: JACKSON, DON  
PHONE: (702) 236-3259 D.F. KL  
DESIGNER: MARTINEZ, JONATHAN  
DCA: N/A  
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM  
STAND BY: (702) 402-6788, 6795, 6840, 6841, 6771  
DISTRICT: LAS VEGAS SOUTH DISTRICT  
JPA INFORMATION:  
JPA ADMIN PHONE: N/A JPA#: N/A  
CUSTOMER INFORMATION:  
APPLICANT: COUNTY OF CLARK  
APPLICANT CONTACT: YAZDANI, KAIZAD  
CONTACT: PAVELKA, ALLAN \*\* 702-804-2070  
APPROVAL DATE: 12/10/2020  
GOVERNMENT INFORMATION:  
AGENCY(S): CLARK  
APPROVAL DATE(S): N/A  
FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

**NVENERGY**  
CC-LV BLVD (CC215 TO RUSSELL)  
PH B HARLEY DAVIDSON  
UPGRADE-SVC  
LAS VEGAS-215 TO RUSSELL  
PROJ # 3006378635 SCALE: 1"=30'  
SHEET # 1 OF 1 DATE: 10/20/2020



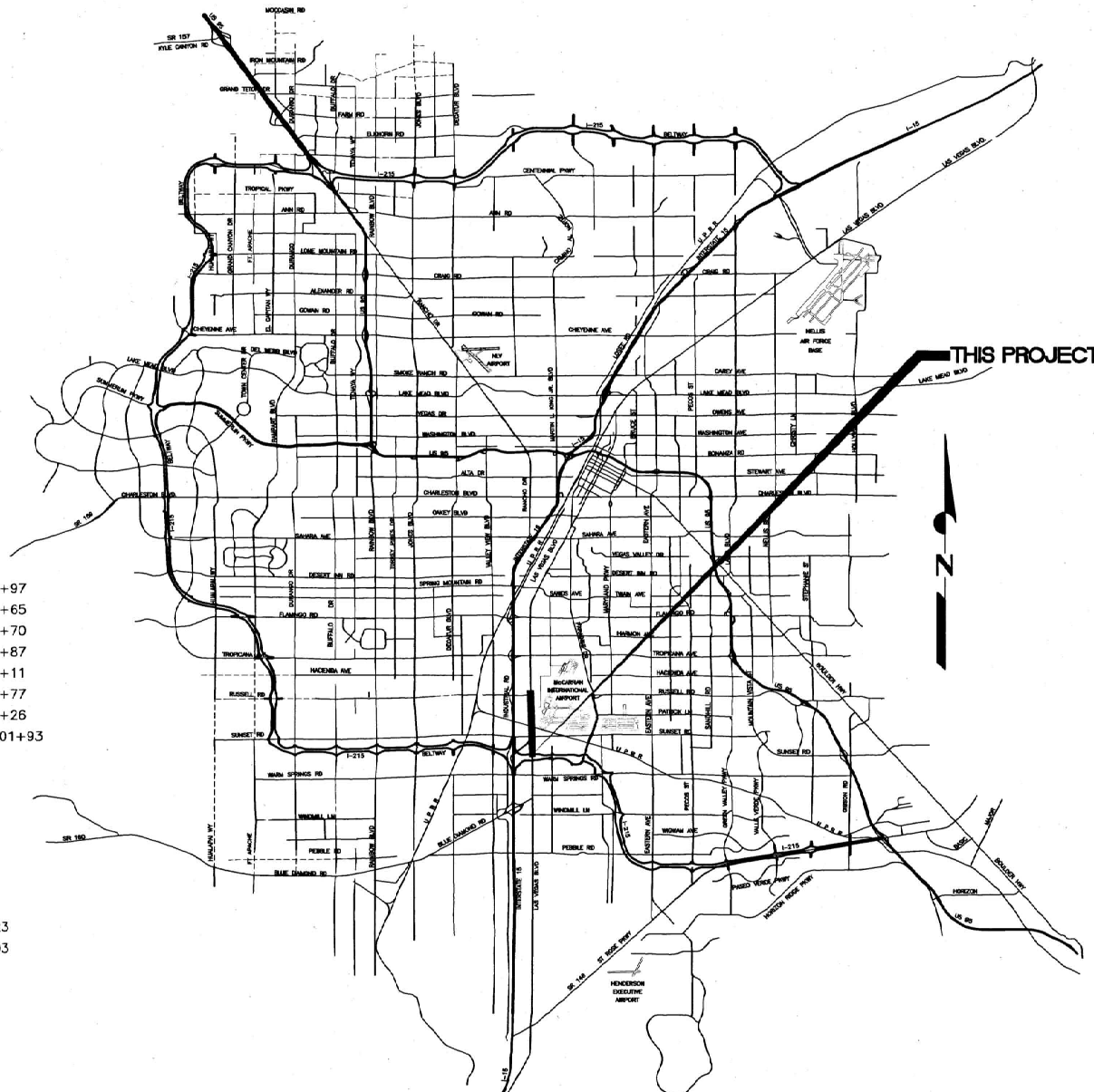
# LAS VEGAS VALLEY WATER DISTRICT

CONTRACT NO. C1497

LAS VEGAS BOULEVARD  
WATERLINE REPLACEMENT  
FROM I-215 TO DEWEY DRIVE

## SHEET INDEX

SHEET NO	DRAWING NO	DESCRIPTION
1	WG-1	COVER SHEET
2	WG-2	LVVWD GENERAL NOTES AND LEGEND
3	WG-3	GENERAL NOTES
4	WG-4	GENERAL NOTES
5	WG-5	ABBREVIATION LIST
6	W-1	36" WATER STA 19+50 TO STA 28+50 PLAN AND PROFILE
7	W-2	36" WATER STA 28+50 TO STA 37+50 PLAN AND PROFILE
8	W-3	36" WATER STA 37+50 TO STA 46+50 PLAN AND PROFILE
9	W-4	36" WATER STA 46+50 TO STA 55+50 PLAN AND PROFILE
10	W-5	36" WATER STA 55+50 TO STA 64+50 PLAN AND PROFILE
11	W-6	36" WATER STA 64+50 TO STA 73+50 PLAN AND PROFILE
12	W-7	36" WATER STA 73+50 TO STA 82+50 PLAN AND PROFILE
13	W-8	36" WATER STA 82+50 TO STA 91+50 PLAN AND PROFILE
14	W-9	36" WATER STA 91+50 TO STA 100+50 PLAN AND PROFILE
15	W-10	36" WATER STA 100+50 TO STA 109+50 PLAN AND PROFILE
16	W-11	12" WATER STA 100+50 TO STA 109+50 PLAN AND PROFILE
17	W-12	WATER ABANDONMENT PLAN STA 19+50 TO STA 46+50
18	W-13	WATER ABANDONMENT PLAN STA 46+50 TO STA 73+50
19	W-14	WATER ABANDONMENT PLAN STA 73+50 TO STA 114+00
20	W-15	LATERAL RECONNECTION PLAN AND PROFILE STA 20+31 & STA 45+97
21	W-16	LATERAL RECONNECTION PLAN AND PROFILE STA 55+94 & STA 63+65
22	W-17	LATERAL RECONNECTION PLAN AND PROFILE STA 68+65 & STA 73+70
23	W-18	LATERAL RECONNECTION PLAN AND PROFILE STA 75+47 & STA 81+87
24	W-19	LATERAL RECONNECTION PLAN AND PROFILE STA 87+12 & STA 90+11
25	W-20	LATERAL RECONNECTION PLAN AND PROFILE STA 91+07 & STA 95+77
26	W-21	LATERAL RECONNECTION PLAN AND PROFILE STA 96+53 & STA 98+26
27	W-22	LATERAL RECONNECTION PLAN AND PROFILE STA 100+80 & STA 101+93
28	W-23	LATERAL RECONNECTION PLAN AND PROFILE STA 105+82
29	W-24	36" VALVE VAULT PLAN AND PROFILE STA 40+22
30	W-25	36" VALVE VAULT PLAN AND PROFILE STA 60+22
31	W-26	36" VALVE VAULT PLAN AND PROFILE STA 85+23
32	W-27	36" VALVE VAULT PLAN AND PROFILE STA 106+07
33	W-28	AIR RELEASE PLAN AND PROFILE STA 23+67 & STA 30+49
34	W-29	AIR RELEASE PLAN AND PROFILE STA 34+31 & STA 47+07
35	W-30	AIR RELEASE PLAN AND PROFILE STA 73+25 & STA 99+43
36	W-31	BLOW OFF ASSEMBLY PLAN AND PROFILE STA 30+39 & STA 34+23
37	W-32	BLOW OFF ASSEMBLY PLAN AND PROFILE STA 45+63 & STA 73+03
38	W-33	BLOW OFF ASSEMBLY PLAN AND PROFILE STA 96+92
39 THRU 51	WD-1 THRU WD-13	CIVIL DETAILS - MAIN
52 THRU 56	WD-14 THRU WD-18	CIVIL DETAILS - LATERAL
57 THRU 61	WD-19 THRU WD-23	CIVIL DETAILS - CATHODIC PROTECTION



### LOCATION MAP

NOT TO SCALE

### CAUTION TO CONTRACTOR

THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.

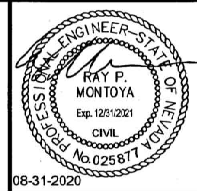
AGENCY	PLANS REVIEWED BY	DATE
CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK	<i>Calvin Starman</i>	9/16/20
CLARK COUNTY WATER RECLAMATION DISTRICT	DIGITALLY SIGNED BY CALVIN STARMAN	12/23/2020
COX COMMUNICATION, LAS VEGAS, INC	<i>Armando Romo</i>	9/24/20
LAS VEGAS VALLEY WATER DISTRICT	<i>Armando Romo</i>	02/23/2021
NV ENERGY COMPANY (TRANSMISSION)	<i>Armando Romo</i>	9/29/2020
NV ENERGY COMPANY (DISTRIBUTION)	<i>Armando Romo</i>	09/21/20
SOUTHWEST GAS CORPORATION	<i>Matthew Pedraza</i>	10/1/20
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION	N/A	N/A
DEPARTMENT OF PUBLIC WORKS	BY <i>Stan Coon</i>	DATE
BUILDING FIRE PREVENTION		10-15-20



LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 to DEWEY DRIVE (PHASE B)

COVER SHEET

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
DESIGNED BY: ROMGAG CHECKED BY: ALF/RPM/ROM  
APPROVED BY:

**Kimley»Horn**

6571 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 862-3660

SCALE	DRAWING NO.
HORIZ: N/A	WG-1
VERT: N/A	SHT. 1 OF 61
FIELD BOOK	L-2272

ISSUED FOR CONSTRUCTION

User: George.Gonzalez; Path: K:\VIC\_MiscResources\098513000\_LasVegasBld\CAD\DWG\Phase B Water Plans\1\_C1497\_CV.dwg; Plot: K:\VIC\_MiscResources\098513000\_LasVegasBld\CAD\DWG\Phase B Water Plans\1\_C1497\_CV.dwg; Plot: K:\VIC\_MiscResources\098513000\_LasVegasBld\CAD\DWG\Phase B Water Plans\1\_C1497\_CV.dwg

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



User: Gerardo.Gonzalez Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CAD\LVB Phase B Water Plans\2\_C2.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

**LEGEND**

DESCRIPTION	SYMBOL	
	PROPOSED	EXISTING
WATER PIPELINE (16" AND SMALLER)	12" PVC	12" PVC
WATER PIPELINE (LARGER THAN 16")	36" MLGP ACCESS MH	36" MLGP
IN-LINE VALVE VAULT		
ACCESS MANHOLE (TO PIPELINE)		
BLOWOFF		
COMBINATION AIR VALVE		
TEST STATION (CATHODIC)		
REDUCER		
END CAP FOR WATER PIPELINE	J	
WATER VALVE		
FIRE HYDRANT ASSEMBLY		
WATER METER	WM	WM
WATER METER SIZE	1"	
IDENTIFICATION HEXAGON	XX	
EDGE OF PAVEMENT		
SANITARY SEWER MANHOLE		S
STORM DRAIN MANHOLE		SD
POWER POLE W/GUY WIRE		
STREET LIGHT (GENERIC SYMBOL NOT RELATED TO WATTAGE)		
SURVEY MONUMENT		
POLYGON FOR TRANSMISSION POLE		
ELECTRICAL BOX		ELEC
ELECTRICAL PANEL BOX		ELEC PANEL
CABLE TV		CTV
FENCE		
GAS LINE		2" G
CONTOURS		2640
DITCH		
SANITARY SEWER		10" SS
STORM DRAIN		24" SD
UNDERGROUND POWER		UGP
UNDERGROUND TELEPHONE		UGTEL
CURB, GUTTER AND SIDEWALK		
PROPERTY LINE		
CENTER LINE		
BLOCK WALL		
RIGHT-OF-WAY LINE		
PATENT RESERVATION OR EASEMENT LINE		
SECTION LINE		
ANGLE (HORIZONTAL OR VERTICAL)		
ANGLE OF CURVE		
FIELD WELD		
REFERENCE BUBBLE	1 D2	C1, C9, C11 — ALL SHEETS THAT REFERENCE TO THE DETAIL OR SECTION

DESCRIPTION	SYMBOL	
	PROPOSED	EXISTING
SHALLOW MOUNT BOLLARD		
TRENCH MOUNT BOLLARD		
DRILLED FOOTING BOLLARD		
T-BOLLARD		
FULL PAVEMENT RESTORATION, SEE DETAIL 1 ON DWG NO CD1		

**LAS VEGAS VALLEY WATER DISTRICT NOTES**

- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES FOR PROPER DRAINAGE, AND FOR INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED IN THE FIELD BY THE LVVWD ENGINEER.
- REPLACE EXISTING SEWER LINES OR STORM DRAINS WHICH CROSS OVER NEW WATER LINE WITH C900 WATER QUALITY PIPE TEN (10) FEET BEYOND EACH SIDE OF WATER LINE OR SLURRY ENCASE OR WELD JOINTS (MLCP) OF NEW WATER LINE TEN (10) FEET BEYOND EACH SIDE OF ALL SEWER MAINS AND LATERALS OR STORM DRAINS.
- SOME WATER SERVICE LATERALS ARE NOT SHOWN. ALL WATER SERVICE LATERALS SHALL BE PROTECTED IN PLACE OR REPLACED WITH COPPER TUBING AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE UDS.
- DURING ALL PHASES OF CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN A 10 FOOT MINIMUM CLEARANCE IN ALL DIRECTIONS OF ALL OVERHEAD POWER LINES AND EQUIPMENT.
- REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, CABLE POLES OR JOINTLY-OWNED POLES AND APPURTENANCES WHICH INTERFERE WITH THE IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY COMPANY.
- ALL AGENCY/UTILITY INSPECTORS SHALL BE CALLED WHENEVER WORK IS TO BE PERFORMED NEAR OR ON ANY OF THEIR FACILITIES.
- SEWER LATERALS ARE NOT SHOWN. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE TO CUSTOMERS. SEWER LATERALS CUT DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE PER DESIGN AND CONSTRUCTION STANDARDS OF AGENCY HAVING JURISDICTION.
- SANITARY SEWER MANHOLES SHALL BE PROTECTED FROM DAMAGE WHEN EXCAVATING IN THEIR VICINITY.

**LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES LVVWD PROJECT # C1497**

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.

**ENGINEER'S STATEMENT**

EXISTING ABOVE AND BELOW GROUND UTILITIES HAVE BEEN DELINEATED ON THESE PLANS BASED UPON FIELD SURVEY INFORMATION AS WELL AS FROM BLUE STAKE MARKINGS AND UTILITY BASE MAPS (AS MADE AVAILABLE) AND THEREFORE THE ENGINEER MAKES NO GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE UTILITY LOCATIONS OR OF THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY OR UNDERGROUND STRUCTURES SHOWN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEANS NECESSARY TO PROTECT ANY UTILITY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON THESE PLANS.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021



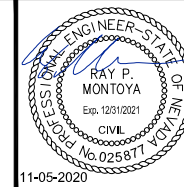
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**LVVWD NOTES AND LEGEND**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
6671 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	
HORIZ:	N/A
VERT:	N/A
FIELD BOOK	

DRAWING NO.	
WG-2	
SHT.	2 OF 61
L-2272	

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

**LAS VEGAS VALLEY WATER DISTRICT (LVVWD)  
STANDARD NOTES LVVWD PROJECT # C1497 CONTINUED**

14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

**LAS VEGAS VALLEY WATER DISTRICT (LVVWD)  
SYSTEM ABANDONMENT NOTES**

1. EXISTING PIPELINE, SERVICE LATERAL, VALVE, FIRE HYDRANT ABANDONMENT AND CUT AND CAPS ARE TO BE COMPLETED PER REQUIREMENTS WITH SECTION 2 AND 3 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS).

2. ALL PIPELINES TO BE ABANDONED SHALL BE CUT AND SECURELY CAPPED (ALL ENDS). THE CUT AND CAP LOCATION ON THE MAIN TO BE ABANDONED SHALL BE A MAXIMUM OF ONE (1) FOOT FROM THE VALVE OR POINT OF TERMINATION. ANY ABANDONED PIPELINE LARGER THAN TWELVE (12) INCHES MUST BE FILLED WITH CLSM I MATERIAL.

3. **ABANDONMENT OF EXISTING SERVICE LATERAL (TWO (2) INCH AND SMALLER)**  
THE CONTRACTOR SHALL NOTIFY THE AGENCY TWO (2) FULL BUSINESS DAYS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE AGENCY TO TAKE THE FINAL METER READING. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

EXISTING SERVICE LATERALS TO BE ABANDONED FROM EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY THE AGENCY. IF IT IS DISCOVERED THE CORPORATION STOP IS NOT WATER TIGHT, THROUGH NO FAULT OF THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY THE AGENCY FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE AGENCY.

4. **ABANDONMENT OF EXISTING SERVICE LATERAL (THREE (3) INCH AND LARGER)**  
THE CONTRACTOR SHALL NOTIFY THE AGENCY TWO (2) FULL BUSINESS DAYS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE AGENCY TO TAKE THE FINAL METER READING AND TO NOTIFY THE AGENCY'S INSPECTOR OF THE IMPENDING WORK. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO-THOUSAND (2,000) PSI.

IF THE VALVE IS TO BE ABANDONED IN THE CLOSED POSITION, THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH AGENCY APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATE 31 AT ALL CAP OR PLUG LOCATIONS.

THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE AGENCY. THE CONTRACTOR SHALL THEN REMOVE THE VAULT OR A MINIMUM OF THE VAULT ROOF AND THE TOP TWENTY-FOUR (24) INCHES OF THE VAULT WALLS, AND BACKFILL THE ABANDONED VAULT WITH TYPE II MATERIAL COMPACTED TO NINETY (90)% OF MAXIMUM DRY DENSITY OR CLSM I, AS APPROVED BY THE AGENCY.

5. WHERE SHOWN ON THE DRAWING(S), THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. A NEW HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UDACS PLATE 40 AND 41. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO-THOUSAND (2,000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND PLUG CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31. THE EXISTING FIRE HYDRANT SHALL BE DELIVERED TO THE AGENCY.

6. EXISTING FIRE HYDRANT TO REMAIN IN SERVICE SHALL BE REPLACED WITH A NEW FIRE HYDRANT IN ACCORDANCE TO UDACS PLATES 40 AND 41. EXISTING FIRE HYDRANT ASSEMBLIES SHALL BE DELIVERED TO THE AGENCY.

7. ABANDONED WATER MAIN CAP INSTALLATIONS MAY NOT BE REQUIRED WHEN CONCRETE THRUST BLOCKS FOR PROPOSED PIPELINE CLOSE/PLUG OPEN ENDS OF THE ABANDONED WATER LINE.

**GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED OR DISTURBED EXISTING LANDSCAPE AND IRRIGATION FACILITIES DURING CONSTRUCTION OPERATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED OR DISTURBED CURBS, GUTTERS, SIDEWALKS AND AC PAVEMENT DURING CONSTRUCTION OPERATIONS.
4. NO LEAD COMPLIANCE NOTE: TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.
5. DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
6. IN AREAS WHERE THE EXCAVATION OR GROUND ELEVATION IS LESS THAN THREE (3) FEET, FROM THE TOP OF THE LVVWD TRANSMISSION MAIN, NO EXCAVATION EQUIPMENT, OTHER THAN HAND HELD EQUIPMENT WILL BE ALLOWED WITHIN TEN (10) FEET OF THE PIPELINE IN THESE AREAS. THE CONTRACTOR IS TO PLACE A CONCRETE BARRIER; I.E. JERSEY RAIL, TO IDENTIFY AND PROTECT THE "NO EQUIPMENT ZONE".
7. LVVWD CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
8. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
9. COORDINATE SHUTDOWNS TO MINIMIZE SERVICE IMPACTS. MAINTAIN FIRE HYDRANT COVERAGE DURING CONSTRUCTION PER JURISDICTIONAL CODE. REFER TO THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS), SECTION 3, FOR CONNECTIONS TO EXISTING FACILITIES.
10. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
11. NO CONCRETE THRUST BLOCKS SHALL BE WITHIN 5' OF ANY EXISTING SEWER MAIN.
12. PIPELINES CROSSING SEWER AND STORM DRAIN MAINS AND WHERE ALIGNMENT IS CLOSER THAN 10' OF SEPARATION TO BE ENCASED WITH CLSM, CLASS II (300 PSI).

**HORIZONTAL CONTROL NOTE**

1. CONTRACTOR SHALL REFER TO DWGS HC-1 THROUGH HC-7 OF PROJECT NUMBER L-2272 FOR HORIZONTAL CONTROL INFORMATION, INCLUDING SURVEY DATUM, LINE AND POINT COORDINATES, BENCHMARKS, BASIS OF BEARINGS, MONUMENTS, CONTROL POINTS, ETC.

**REGIONAL TRANSPORTATION COMMITTEE (RTC)  
TRANSIT NOTES**

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY BUS STOPS AND BUS STOP AMENITIES SHALL BE AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY RTC TRANSIT OF PROPOSED BUS STOP CLOSURES AND/OR BUS STOP AMENITY DISRUPTIONS VIA NOTIFYRTCTRANSIT@RTC.SNV.COM AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. NOTIFICATION OF BUS STOP CLOSURES INVOLVING REMOVAL OF EXISTING AMENITIES SHALL BE PROVIDED TO RTC TRANSIT AT LEAST 10 CALENDAR DAYS PRIOR TO THE START OF WORK.
2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURE SCHEDULE TO RTC TRANSIT WITH THE APPROVED TRAFFIC CONTROL PLAN AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY THE DURATION OF PROPOSED BUS STOP CLOSURES AND TEMPORARY BUS STOP RELOCATIONS AND TIMES OF DAY THAT STOPS ARE EXPECTED TO BE IMPACTED BY THE WORK. ALL BUS STOP CLOSURES, TEMPORARY BUS STOPS, AND TEMPORARY BUS TURN OUTS MUST BE APPROVED BY RTC TRANSIT STAFF PRIOR TO THE START OF WORK.

**RTC-FAST NOTES**

1. CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. LONNIE BROWN (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-290-1979 CELL OR 702-432-5300 GENERAL.
2. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT, SPLICED, AND OR PULLED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. LONNIE BROWN TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION.

**DEVIATIONS FROM STANDARDS**

THERE ARE NO DEVIATIONS FROM APPLICABLE CLARK COUNTY STANDARDS, UNLESS STATED IN THE SPECIFICATIONS.

**CLARK COUNTY FIRE DEPARTMENT BUREAU'S GENERAL NOTES**

- A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE CURRENT EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24.
- B. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 1412 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.
- C. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE FIRE PREVENTION BUREAU PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.
- D. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.
- E. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTION AT ALL TIMES.
- F. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 33,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. EXCEPTION: TEMPORARY ACCESS ROADS SERVING ONLY BUILDINGS UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 503.2.3 OF THE CLARK COUNTY FIRE CODE.
- G. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION. SCHEDULE INSPECTION AT [WWW.CLARKCOUNTYNV.GOV/DEPTS/DEVELOPMENT\\_SERVICES/FIRE\\_PREVENTION](http://WWW.CLARKCOUNTYNV.GOV/DEPTS/DEVELOPMENT_SERVICES/FIRE_PREVENTION).
- H. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TURNS.
- I. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED (SECTION C107 OF THE CLARK COUNTY FIRE CODE, AS AMENDED).
- J. HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION ON PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE PREVENTION BUREAU.

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

**811**  
Know what's below  
Call before you dig

**SAFETY ALERT**  
Call Before You Overhead  
1-702-227-2929

**UNION PACIFIC RAILROAD**  
Call Before You Dig  
1-800-336-9193

**Call before you UnderGround**  
1-702-432-5300  
REPAIR AND MAINT. UNDERGROUND

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: \_\_\_\_\_

HORIZ: N/A

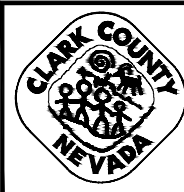
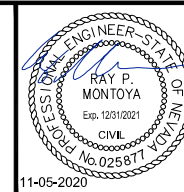
VERT: N/A

FIELD BOOK

DRAWING NO. **WG-3**

SHT. **3** OF **61**

L-2272



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**GENERAL NOTES**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

NO.	REVISIONS	DATE

User: Gerardo.Gonzalez Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CADD\LVV Phase B Water Plans\3\_CS.dwg / This document, together with its contents and design presented herein, is intended only for the specific purpose and client for which it was prepared. None of and no part of this document without written authorization and signature by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS





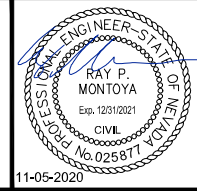
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- A -		- C - (CONT.)		- E - (CONT.)		- H - (CONT.)		- N - (CONT.)		- R - (CONT.)		- T - (CONT.)		- X -	
A/C	AIR CONDITIONING	CEM	CEMENT	EL	EPOXY LINED	HPG	HIGH PRESSURE GAS	NPC	NEVADA POWER COMPANY	RD	ROAD	THK	THICK(NESS)	XARM	CROSS ARM
AB	ANCHOR BOLT	CI	CAST IRON	ELEC	ELECTRICAL	HR	HOUR	NPS	NOMINAL PIPE SIZE	REC	RECESSED	THR BLK	THRUST BLOCK	XFMR	TRANSFORMER
ABAN	ABANDON	CIP	CAST IRON PIPE/CAST IN PLACE	ELEV	ELEVATION	HT	HEIGHT	NPT	NATIONAL TAPER PIPE THREAD	RECT	RECTANGULAR	THRD	THREADED	XFR	TRANSFER
ABAND/ABND	ABANDONED	CIR	CIRCLE	ELL	ELBOW	HV	HOSE VALVE	NRS	NEVADA REVISED STATUTES/ NON-RISING STEM	RED	REDUCER	TK	TANK	XSEC	CROSS SECTION
ABC	AGGREGATE BASE COURSE	CIRCUM	CIRCUMFERENCE	ENG	ENGINE/ENGINEERING	HWY	HIGHWAY	NTS	NOT TO SCALE	REF	REFERENCE (DIMENSION)	TMH	TOP OF MANHOLE		
ABS	ABSOLUTE	CJP	COMPLETE JOINT PENETRATION	ENGR	ENGINEER			NW	NORTHWEST	REG	REGULATING (REGULATOR)	TOE	THREAD ONE END		
ABUT	ABUTMENT	CL OR $\varnothing$	CENTERLINE	EOP	EDGE OF PAVEMENT					REINF	REINFORCED (REBAR)	TOF	TOP OF FOOTING	YD	YARD
ABV	ABOVE	CL2	CHLORINE	EOS	EDGE OF SHOULDER	ID	INSIDE DIAMETER			REQD	REQUIRED	TOG	TOGETHER	YH	YARD HYDRANT
AC	ASPHALTIC CONCRETE	CLG	CEILING	EQ	EQUAL OR EQUATION	INST	INCH			RES	RESIDENTIAL OR RESERVOIR	TOGR	TOP OF GRATE	YLD	YIELD
ACKV	AUTOMATIC CHECK VALVE	CLO	CLEANOUT	EQ SP	EQUALLY SPACED	INSTR	INSTRUMENT			RET	RETURN	TOP	TOP OF PIPE		
ACP	ASBESTOS CEMENT PIPE	CLP	CLAMP	EQUIP	EQUIPMENT	INSUL	INSULATION			REV	REVISION OR REVERSE	TOR	TOP OF RIM		
ACS	ACCESS	CLR	CLEAR	EQUIV	EQUIVALENT	INT	INTERIOR			RF	RAISED FACE	TOS	TOP OF SLAB		
ADA	AMERICAN DISABILITY ACT	CLSM	CONTROLLED LOW STRENGTH MATERIAL	ESMT	EASEMENT	INV	INVERT			RM	ROOM	TOSTL	TOP OF STEEL		
AD	AREA DRAIN			EST	ESTIMATE	IPS	IRON PIPE SIZE			RME	RESIDENTIAL MAIN EXTENSION	TOSW	TOP OF SIDEWALK		
ADDL	ADDITIONAL	CLV	CITY OF LAS VEGAS	ETC	ETCETERA	IRR	IRRIGATION			RPM	REVOLUTIONS PER MINUTE	TOT	TOTAL		
ADDM	ADDENDUM	CM	CENTIMETER	EW	EACH WAY					RPS	REVOLUTIONS PER SECOND	TOW	TOP OF WALL		
ADJ	ADJUSTABLE	CMP	CORRUGATED METAL PIPE	EXC	EXCAVATE					RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY	TP	TELEPHONE POLE/TOP OF PIPE		
AGGR	AGGREGATE	CMU	CONCRETE MASONRY UNIT	EXIST/ EX	EXISTING	JT	JOINT			RR	RAILROAD	TR	TRAIL OR TRACK/TOP OF RIM		
AHD	AHEAD	CNLV	CITY OF NORTH LAS VEGAS	EXP JT	EXPANSION JOINT					RRGV	RESILIENT SEATED GATE VALVE	TRANS	TRANSITION/TRANSITION		
AL	ALUMINUM	CO	COUNTY/COMPANY/CONTRACT	EXT	EXTENSION					RV	RELIEF VALVE				
ALT	ALTERNATE	COH	CITY OF HENDERSON			kg	KILOGRAM								
AMS	ANGLE METER STOP	COL	COLUMN			km	KILOMETER								
AMT	AMOUNT	COMB	COMBINATION	F/F	FACE TO FACE					OS&Y	OUTSIDE SCREW & YOKE				
&	AND	COMM	COMMUNICATION	FABR	FABRICATION/FABRICATED					OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION				
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	COMPL	COMPLETE	FC	FACE OF CURB	LAD	LADDER					S	SOUTH/SLOPE	UDS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS, CLARK COUNTY, NV
		CON	CONCENTRIC	FD	FLOOR DRAIN	LB OR #	POUND			OVFL	OVERFLOW	SA	SAMPLE LINE	UE	UNDERGROUND ELECTRIC
ANT	ANTENNA	CONC	CONCRETE	FDN	FOUNDATION	LDR	LEADER			oz	OUNCE	S/C	SAW CUT	UFC	UNIFORM FIRE CODE
AP	ACCESS PANEL	CONN	CONNECTION	FEXT	FIRE EXTINGUISHER	LEN OR L	LENGTH OF CURVATURE					SCCP	STEEL CYLINDER CONCRETE PIPE	UG	UNDERGROUND
APN	ASSESSOR PARCEL NUMBER	CONN	CONNECTION	FF	FINISHED FLOOR	LF	LINEAR FOOT					SCH	SCHEDULE	UGC	UNDERGROUND CONDUIT
APPROX	APPROXIMATE	CONST	CONSTRUCTION	FG	FINISHED GRADE	LG	LONG					SD	STORM DRAIN	UGP	UNDERGROUND POWER
APPVD	APPROVED	CONT	CONTINUE OR CONTINUOUS	FH	FIRE HYDRANT	LN	LANE					SDWK	SIDEWALK	UGT	UNDERGROUND TELEPHONE
ASPH	ASPHALT	CONTR	CONTRACTOR	FIG	FIGURE	LT	LEFT/LIGHT					SE	SOUTHEAST	UL	UNDERWRITERS LABORATORIES
ASSN	ASSOCIATION	COORD	COORDINATE	FL OR $\varnothing$	FLOW LINE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT					SEC	SECTION/SECOND(ARY)	UNC	AMERICAN STANDARD UNIFIED COARSE THREAD
ASSY	ASSEMBLY	COR	CORNER	FLG	FLANGE	LWR	LOWER					SEG	SEGMENT	UNF	AMERICAN STANDARD UNIFIED FINE THREAD
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	CORP STOP	CORPORATION STOP	FLR	FLOOR							SHLDR	SHOULDER	UNIV	UNIVERSAL
		COV PL	COVER PLATE	FMCT	FLOW METER COMPOUND TORRENT							SHT	SHEET	UNO	UNLESS NOTED OTHERWISE
AUX	AUXILIARY	CPLG	COUPLING	FMH	FLEXIBLE METAL HOSE	M	METER					SID	SPECIAL IMPROVEMENT DISTRICT	UPC	UNIFORM PLUMBING CODE
AV	AIR VENT/AIR VALVE	CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE	FN	FENCE	MATL	MATERIAL					SIG	SIGNAL	UPRR	UNION PACIFIC RAILROAD
AVAR	AIR VACUUM AIR RELEASE VALVE			FND	FOUND	MAX	MAXIMUM					SIM	SIMILAR	USGS	UNITED STATES GEODETIC SURVEY UTILITIES
AVE	AVENUE	CT	COURT	FO	FIBER OPTIC	MC	MORTAR COATED					SL	SLOPE		
AWG	AMERICAN WIRE GAUGE	CTR	CENTER	FOC	FACE OF CURB	MEAS	MEASUREMENT					SLV	SLEEVE		
AWWA	AMERICAN WATER WORKS ASSOCIATION	CTV	CABLE TELEVISION	FOW	FACE OF WALL	MECH	MECHANICAL					SNWA	SOUTHERN NEVADA WATER AUTHORITY	V	VOLT OR VALVE
		CU	CUBIC/COPPER	FPC	FLEXIBLE PIPE COUPLING	MFR	MANUFACTURER					SO	SOUTHERN NEVADA WATER SYSTEM	VAC	VACUUM
		CUST	CUSTOMER	FPM	FEET PER MINUTE	MG	MILLION GALLONS					SR	SAMPLE RETURN	VAR	VARIES
		CV	CONTROL VALVE	FPS	FEET PER SECOND	MGD	MILLION GALLONS PER DAY					SNWS	SOUTHERN NEVADA WATER SYSTEM	VB	VALVE BOX
		CW	CLOCKWISE	FPT	FEMALE PIPE THREAD	MH	MANHOLE					SP	STATE PLANE COORDINATES	VCP	VITRIFIED CLAY PIPE
B/H	BUMPED HEAD	CY	CUBIC YARD	FREQ	FREQUENCY	MIN	MINIMUM					SPC	SPECIFICATION(S)	VEL	VELOCITY
B&S	BELL & SPIGOT	CYL	CYLINDER	FRP	FIRE RETARDANT POLYESTER RESIN/ FIBERGLASS REINFORCED POLYMER	MISC	MISCELLANEOUS					SQ	SQUARE	VENT	VENTILATOR
BAL	BALANCE					MJ	MECHANICAL JOINT					SQ FT	SQUARE FOOT (FEET)	VERT	VERTICAL
BC	BOLT CIRCLE/BACK OF CURB					MKR	MARKER					SQ YD	SQUARE YARD	VFD	VARIABLE FREQUENCY DRIVE
BCV	BUTTERFLY CHECK VALVE	D OR $\Delta$	DELTA ANGLE			ML	MORTAR LINED					PLS	PROFESSIONAL LAND SURVEYOR	VG	VALLEY GUTTER
BE	BELL END	D/W	DRIVEWAY	FSTNR	FASTENER	MLC	MORTAR LINED & COATED					PLT	PLATE (DRAWING)	VHF	VERY HIGH FREQUENCY
BETW	BETWEEN	DEC	DECIMETER	FT	FOOT OR FEET	MLCP	MORTAR LINED & COATED PIPE					PO	PUSH-ON	VIB	VIBRATION
BFP	BACKFLOW PREVENTER	DEMO	DEMOLITION	FTG	FOOTING	MLTCP	MORTAR LINED & COATED TAPE					POLY	POLYETHYLENE	VIN	VINYL
BFV	BUTTERFLY VALVE	DEPT	DEPARTMENT	FUT	FUTURE							PP	POWER POLE	VISC	VISCOSITY
BK	BOOK/BACK	DET	DETAIL									PPM	PARTS PER MILLION	VOL	VOLUME
BL-FLG	BLIND FLANGE	DEV	DEVELOPMENT									PR	PAIR	VPI	VERTICAL POINT OF INTERSECTION
BLDG	BUILDING	DI	DROP INLET OR DUCTILE IRON	G/B	GRADE BREAK							P/R	PATENT RESERVATION	VS	VALVE SHEET
BLK	BLOCK			G	GAS							PRC	PRECAST REINFORCED CONCRETE	VT	VENT
BLM	BUREAU OF LAND MANAGEMENT	DIA OR $\varnothing$	DIAMETER	GA	GAGE							PRELIM	PRELIMINARY		
BLVD	BOULEVARD	DIAG	DIAGONAL	GAL(S)	GALLON(S)							PRIM	PRIMARY		
BM	BENCHMARK	DIM	DIMENSION	GALV	GALVANIZED							PROP	PROPOSED		
BO	BLOW OFF ASSEMBLY	DIP	DUCTILE IRON PIPE	GENL	GENERAL							PRV	PRESSURE REGULATING VALVE		
BOC	BACK OF CURB	DIR	DIRECTION	GIS	GEOGRAPHIC INFORMATION SYSTEM							PS	PRESSURE SWITCH/PUMP STATION	W/	WITH
BOT	BOTTOM	DISCH	DISCHARGE	GND	GROUND							PSF	POUNDS PER SQUARE FOOT	W	WEST/WATER
BOW	BACK OF WALK	DIST	DISTANCE	GPD	GALLONS PER DAY							NaOCL	SODIUM HYPOCHLORITE	W/O	WITHOUT
BPV	BACK PRESSURE VALVE	DISTR	DISTRIBUTION	GPH	GALLONS PER HOUR							NAVD	NORTH AMERICAN VERTICAL DATUM	WD	WIDTH
BRG	BEARING	DIV	DIVISION	GPM	GALLONS PER MINUTE							NAP	NOT-A-PART	WDN	WASTE DRAIN
BS	BACK SIGHT	DL	DEAD LOAD	GRD	GRADE							NBS	NATIONAL BUREAU OF STANDARDS	WF	WIDE FLANGE
BUR	BURIED	DMH	DROP MANHOLE	GRT	GRATE							NC	NATIONAL COARSE	WH	WALL HYDRANT
BV	BALL VALVE	DN	DOWN	GV	GATE VALVE							NCS	NEVADA COORDINATE SYSTEM	WI	WROUGHT IRON
BW	BOTH WAYS/BACK OF SIDEWALK	DR	DRIVE									NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	WL	WASTE LINE
		DRW	DRY WELL	H	HOUSE							NE	NORTHEAST	WLD	WELDED
		DUPL	DUPLICATE	H&V	HEATING & VENTILATION							QDC	QUICK DISCONNECT COUPLING	WM	WATER METER
C/C	CENTER TO CENTER	DWG	DRAWING	HARN	HIGH ACCURACY FREQUENCY NETWORK							QS	QUAD SHEET	WP	WORK POINT
C	CONDUIT			HB	HOSE BIBB							QTR	QUARTER	WS	WATER SURFACE
C&G	CURB & GUTTER			HD	HEAD							QTY	QUANTITY	WSP	WELDED STEEL PIPE
CAL	CALIBRATE	E	EAST OR EDGE	HDR	HEADER									WSTP	WATER STOP
CAP	CAPACITY	EA	EACH	HEX	HEXAGONAL									WT	WEIGHT
CAV	COMBINATION AIR VALVE	EC	EPOXY COATED/END OF CURB	HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE									WTR	WATER
CB	CATCH BASIN	ECC	ECCENTRIC	HORIZ	HORIZONTAL									WV	WATER VALVE
CCO	CLARK COUNTY	EF	EACH FACE	HP	HORSEPOWER									WWF	WELDED WIRE FABRIC
				HPI	HORIZONTAL POINT OF INTERSECTION									WWM	WELDED WIRE MESH

NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**ABBREVIATION LIST**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



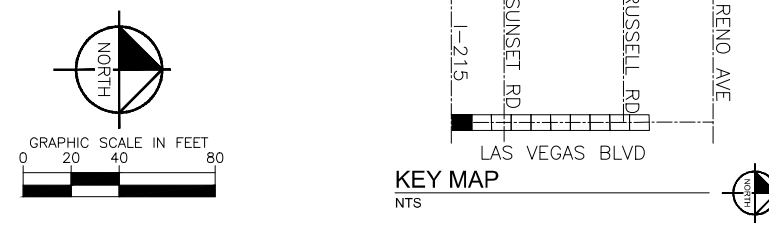
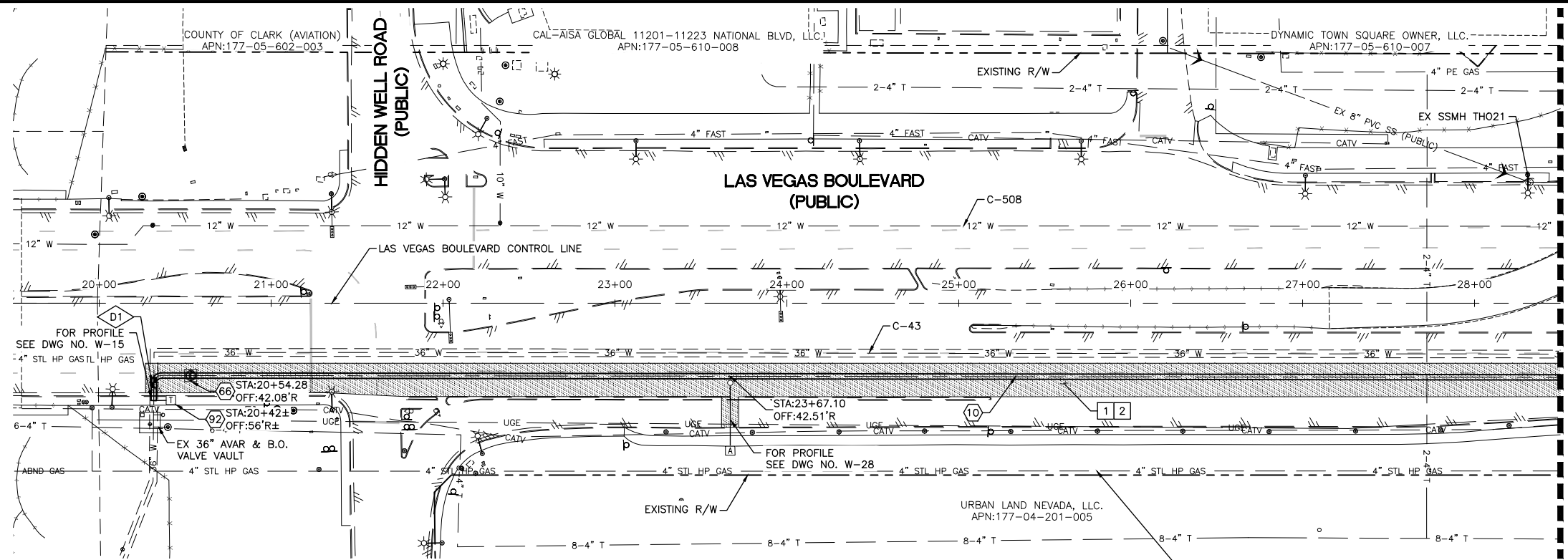
PROJECT No:	500-897-LV	DRAWN BY:	GAG/KMT/JTK	SCALE	
DESIGNED BY:	ROM/GAG	CHECKED BY:	ALF/RPM/ROM	HORIZ:	N/A
APPROVED BY:				VERT:	N/A
				FIELD BOOK	



DRAWING NO.	WG-5
SHT.	5 OF 61
L-2272	

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

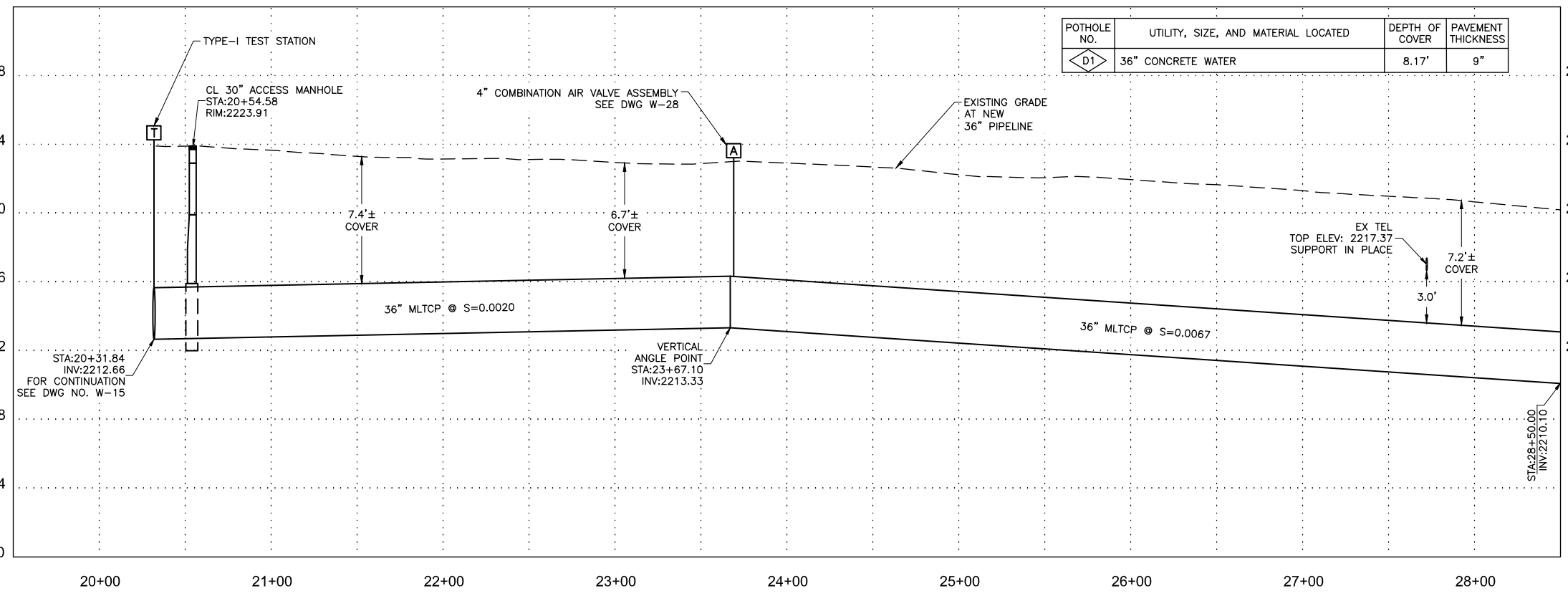
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 Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd\CADD\LVB Phase B Water Plans\8-10-21-C3.dwg  
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- CONSTRUCTION INDEX**
- 10 INSTALL 36" MLTCP PIPE, WELD ALL JOINTS, STA 20+31.73 TO STA 106+29.12
  - 66 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
  - 92 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 1 ON DWG WD-19

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS

**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION



**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

**811**  
 Know what's below  
 Call before you dig

**SAFETY ALERT**  
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 1-702-227-2929

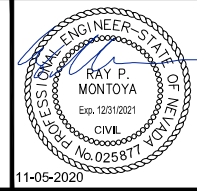
**UNION PACIFIC RAILROAD**  
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**UnderGround**  
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 1-702-432-5300

NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 36" WATER STA 19+50 TO STA 28+50 PLAN AND PROFILE  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



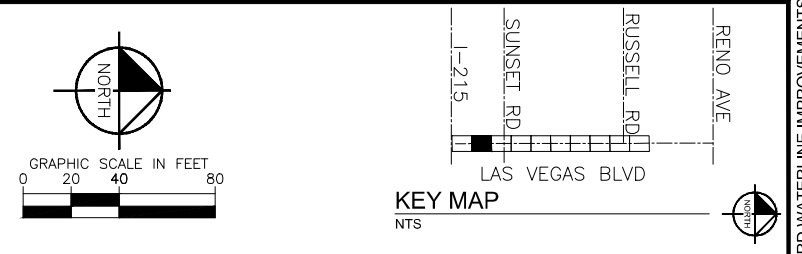
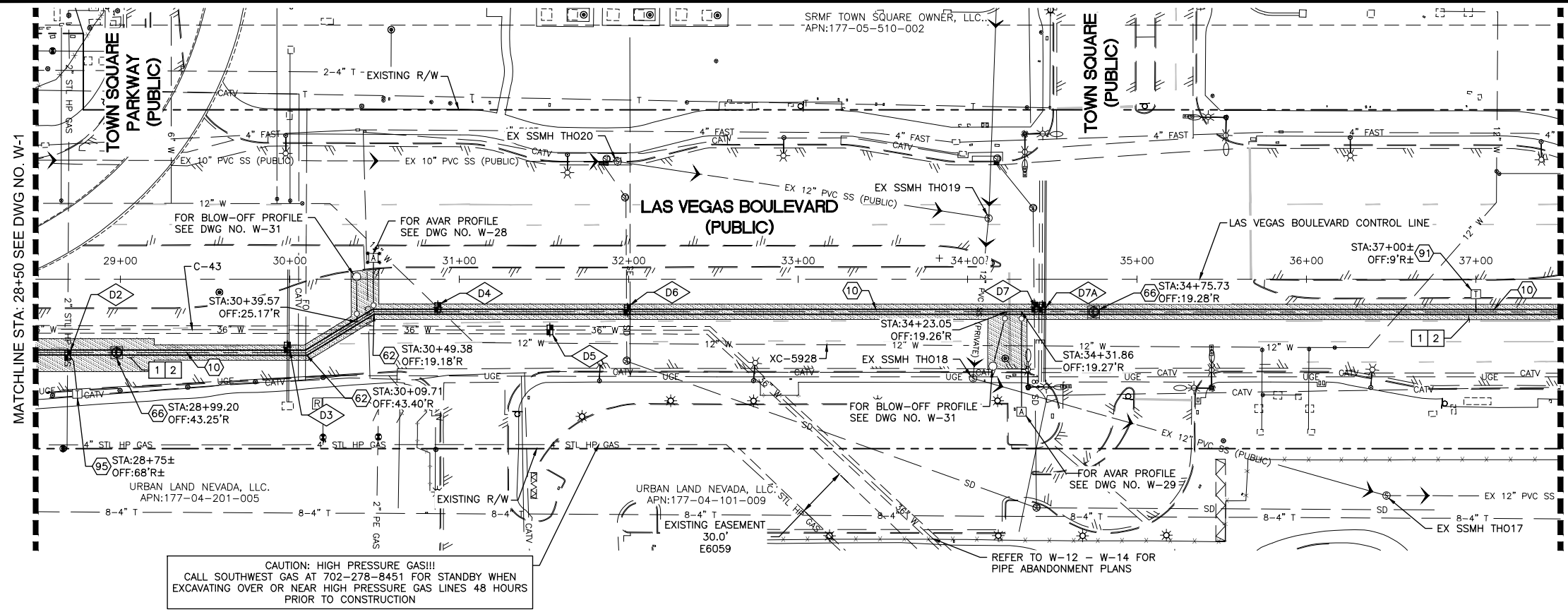
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_



SCALE		DRAWING NO.
HORIZ:	1" = 40'	
VERT:	1" = 4'	
FIELD BOOK		SHT. 6 OF 61
		L-2272



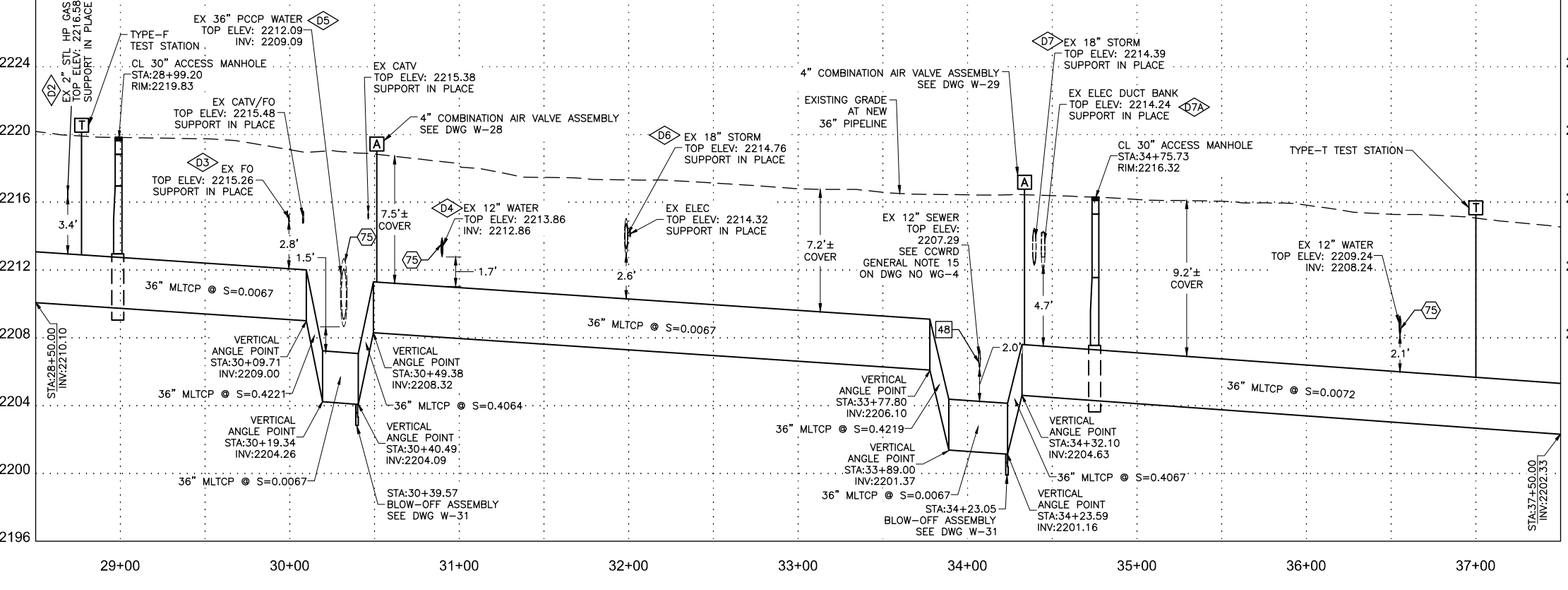
User: Gerardo.Gonzalez Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CADD\LVB Phase B Water Plans\8-10-C1-C3.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- CONSTRUCTION INDEX**
- 10 INSTALL 36" MLTCP PIPE, WELD ALL JOINTS, STA 20+31.73 TO STA 106+29.12
  - 62 INSTALL 36" MLTCP PIPE HORIZONTAL ANGLE POINT
  - 66 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
  - 75 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
  - 91 INSTALL TYPE T TEST STATION PER DETAIL 2 ON DWG WD-20
  - 95 INSTALL TYPE F (FOREIGN) TEST STATION PER DETAIL 2 ON DWG WD-19

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 48 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS SD-18

**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION



POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
D2	2" METAL GAS	3.21'	8"
D3	4" PLASTIC FIBER OPTIC (2)	3.40'-3.62'	8"
D4	12" PLASTIC WATER	4.34'	6"
D5	36" CONCRETE WATER	6.85'	6"
D6	18" METAL STORM DRAIN	2.64'	18"
D7	18" METAL STORM DRAIN	2.25'	7"
D7A	4", 3", UNKNOWN PLASTIC ELECTRIC/TELEPHONE	3.60'	7"

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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CLARK COUNTY WATER RECLAMATION DISTRICT DATE

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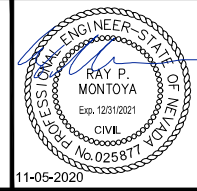
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**36" WATER STA 28+50 TO STA 37+50 PLAN AND PROFILE**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



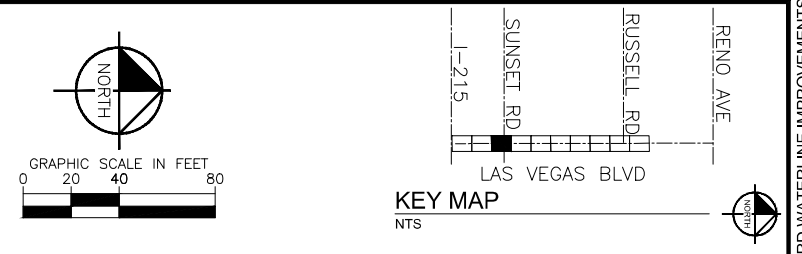
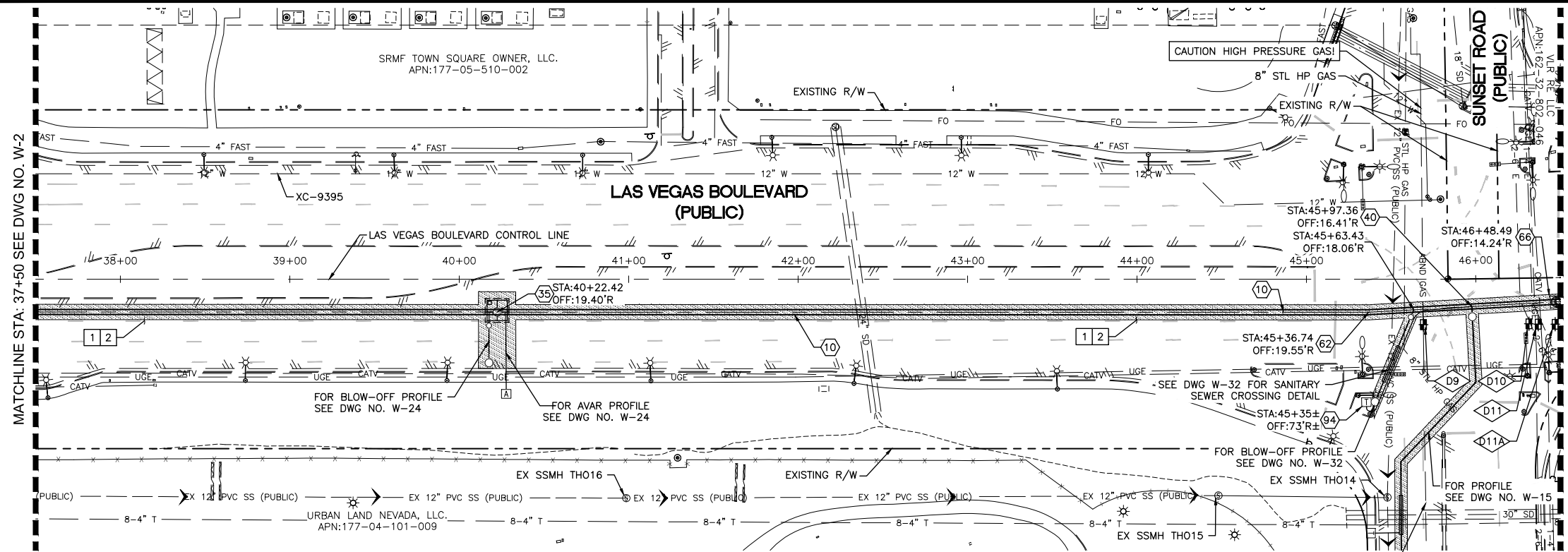
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DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
APPROVED BY: \_\_\_\_\_

**Kimley Horn**  
6671 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 40'	W-2
VERT: 1" = 4'	SHT. 7 OF 61
FIELD BOOK	L-2272



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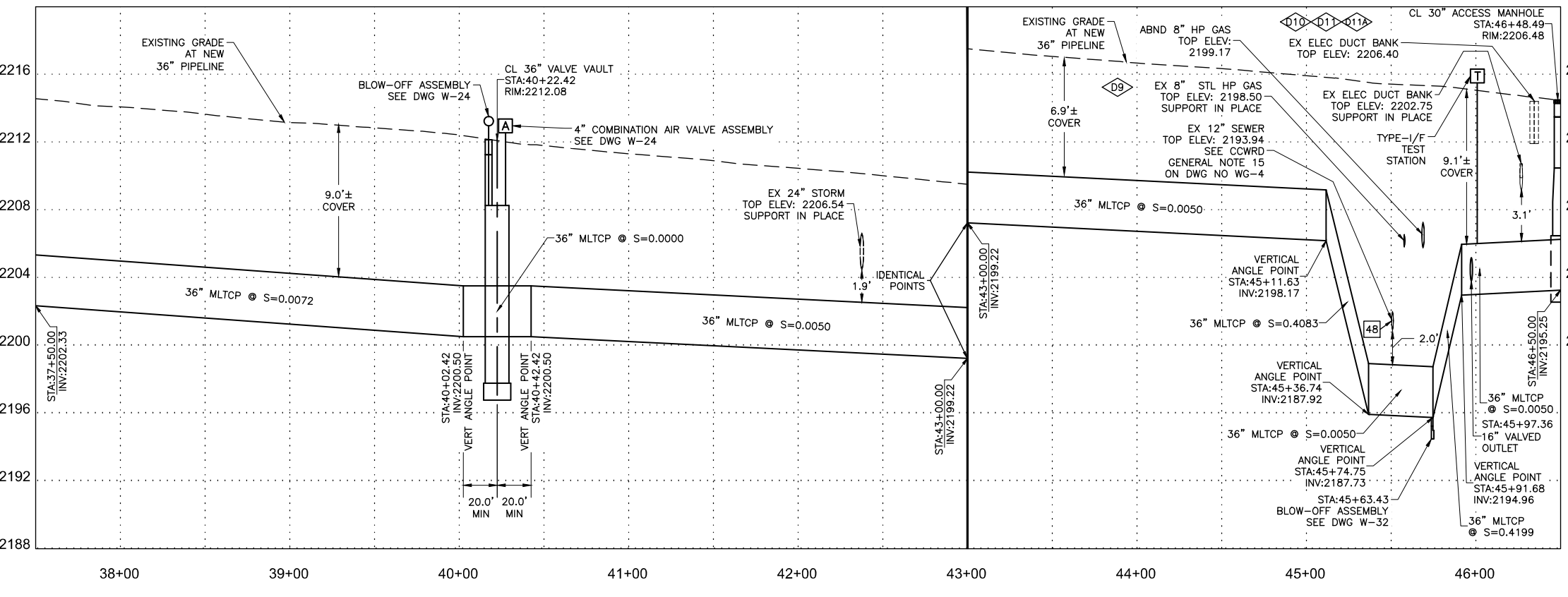


- ### CONSTRUCTION INDEX
- 10 INSTALL 36" MLTC PIPE, WELD ALL JOINTS, STA 20+31.73 TO STA 106+29.12
  - 35 INSTALL 36" BUTTERFLY VALVE AND VAULT PER DETAILS ON DWGS WD-2 THROUGH WD-6
  - 40 INSTALL 16" VALVED OUTLET PER DETAIL 4 ON DWG WD-11 WITH FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-21 AND GATE VALVE PER DETAIL 3 ON DWG WD-10 WITH VALVE STEM EXTENSION PER DETAIL 2 ON DWG WD-11
  - 62 INSTALL 36" MLTC PIPE HORIZONTAL ANGLE POINT
  - 66 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
  - 94 INSTALL TYPE I/F (INSULATED & FOREIGN) TEST STATION PER DETAIL 4 ON DWG WD-19

**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

- ### CONSTRUCTION NOTES
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 48 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS SD-18

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
D9	8" METAL GAS	7.92'	8"
D10	31" CONCRETE ELECTRIC	5.74'	6"
D11	UNKNOWN ELECTRIC	0.87'	8"
D11A	UNKNOWN ELECTRIC	0.74'	8"



**FIRE DEPARTMENT APPROVAL**  
BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020  
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NO.	REVISIONS	DATE

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**36" WATER STA 37+50 TO STA 46+50 PLAN AND PROFILE**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

11-05-2020

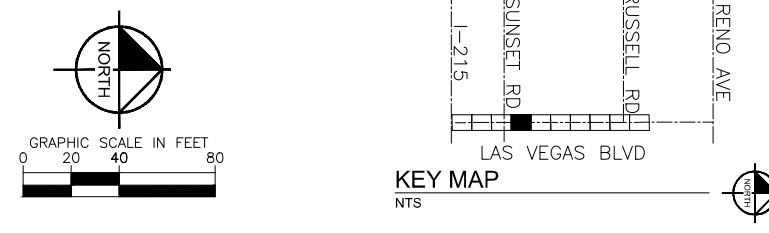
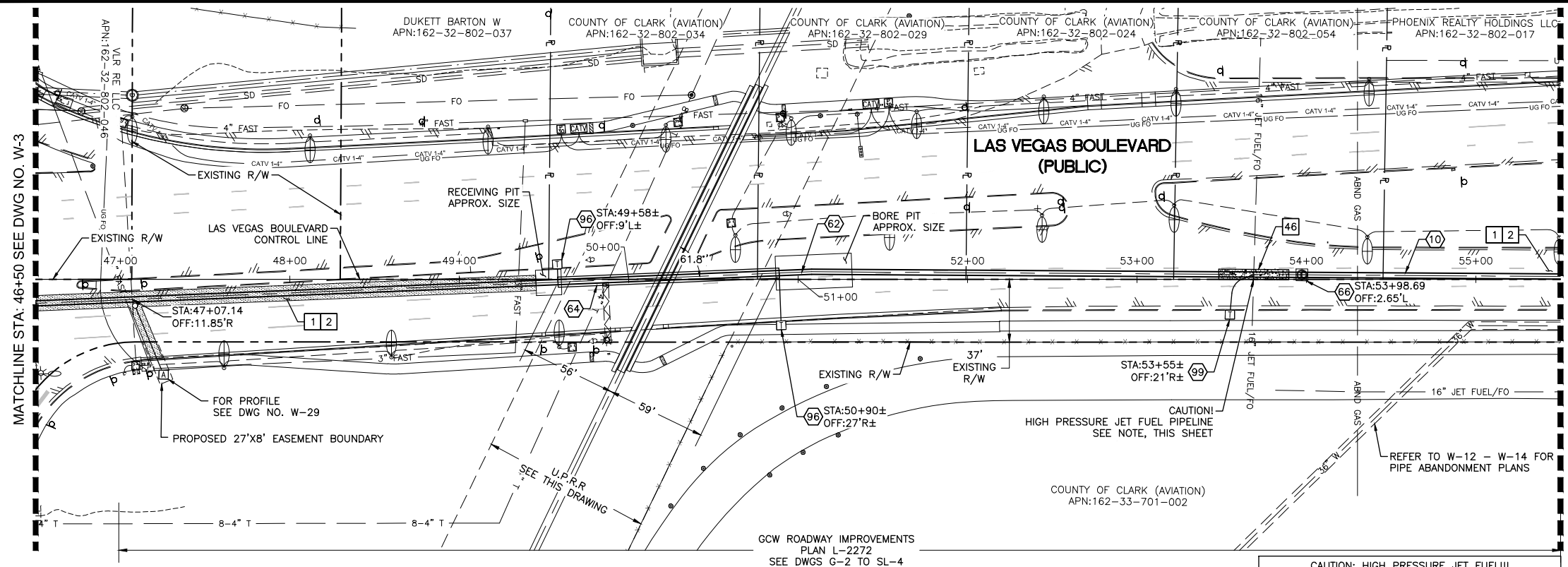
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: 1" = 40' VERT: 1" = 4' FIELD BOOK: SHT. 8 OF 61 DRAWING NO. W-3

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. (702) 882-3600

User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd\CADD\LVB Phase B Water Plans\11-13\_C4-C6.dwg  
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- CONSTRUCTION INDEX**
- 10 INSTALL 36" MLTC PIPE, WELD ALL JOINTS, STA 20+31.73 TO STA 106+29.12
  - 62 INSTALL 36" MLTC PIPE HORIZONTAL ANGLE POINT
  - 64 INSTALL PIPE CASING PER DETAIL 1 ON DWG WD-10
  - 66 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
  - 96 INSTALL TYPE C (CASING) TEST STATION PER DETAIL 1 ON DWG WD-20
  - 99 INSTALL TYPE F (FOREIGN) TEST STATION PER DETAIL 3 & 4 ON DWG WD-20

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 46 PIPE ZONE ONLY TO BE BACKFILLED WITH 3,000 PSI CONCRETE FOR A DISTANCE OF 20' ON EITHER SIDE OF CROSSING. TRENCH PER DETAIL 1 ON DWG WD-1

**U.P.R.R. NOTE**  
 NO DEDICATED EASEMENT OR RIGHT-OF-WAY FOUND ON RECORD. DIMENSIONS SHOWN ARE AN APPROXIMATION. A PROPOSED RIGHT-OF-WAY IS SHOWN ON "MCCARRAN INTERNATIONAL AIRPORT CONTRACT 627, UPRR BOULDER BRANCH RELOCATION" CONSTRUCTION PLANS, STAMPED 2/23/96.

**CLARK COUNTY DEPARTMENT OF AVIATION NOTE**  
 FOR ALL WORK WITHIN 2FT OF AIRFIELD OPERATIONS AREA FENCE LINE OR WITHIN RUNWAY PROTECTION ZONE SEE DOA NOTES ON DRAWING WG-4.

NO DEDICATED EASEMENT OR RIGHT-OF-WAY FOUND ON RECORD FOR THE EXISTING 36" WATERLINE ON DEPARTMENT OF AVIATION PROPERTY.

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN 12/23/2020 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

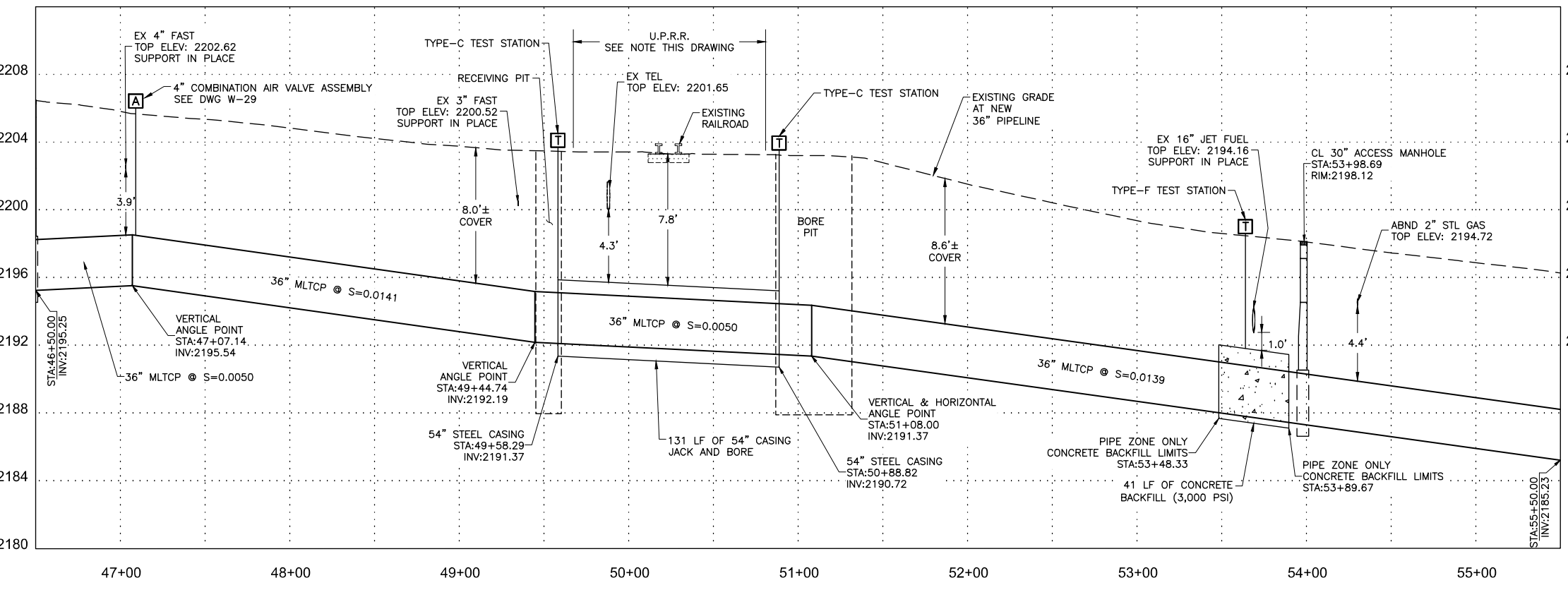
PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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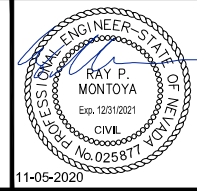
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NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**36" WATER STA 46+50 TO STA 55+50 PLAN AND PROFILE**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



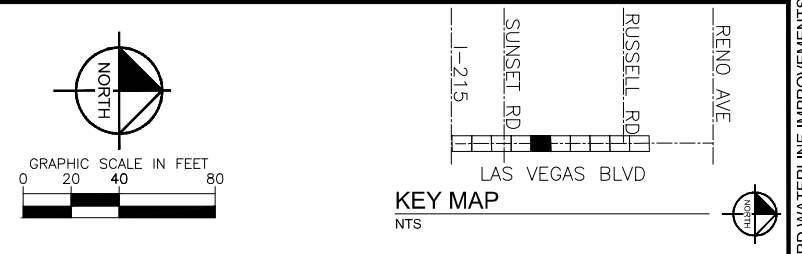
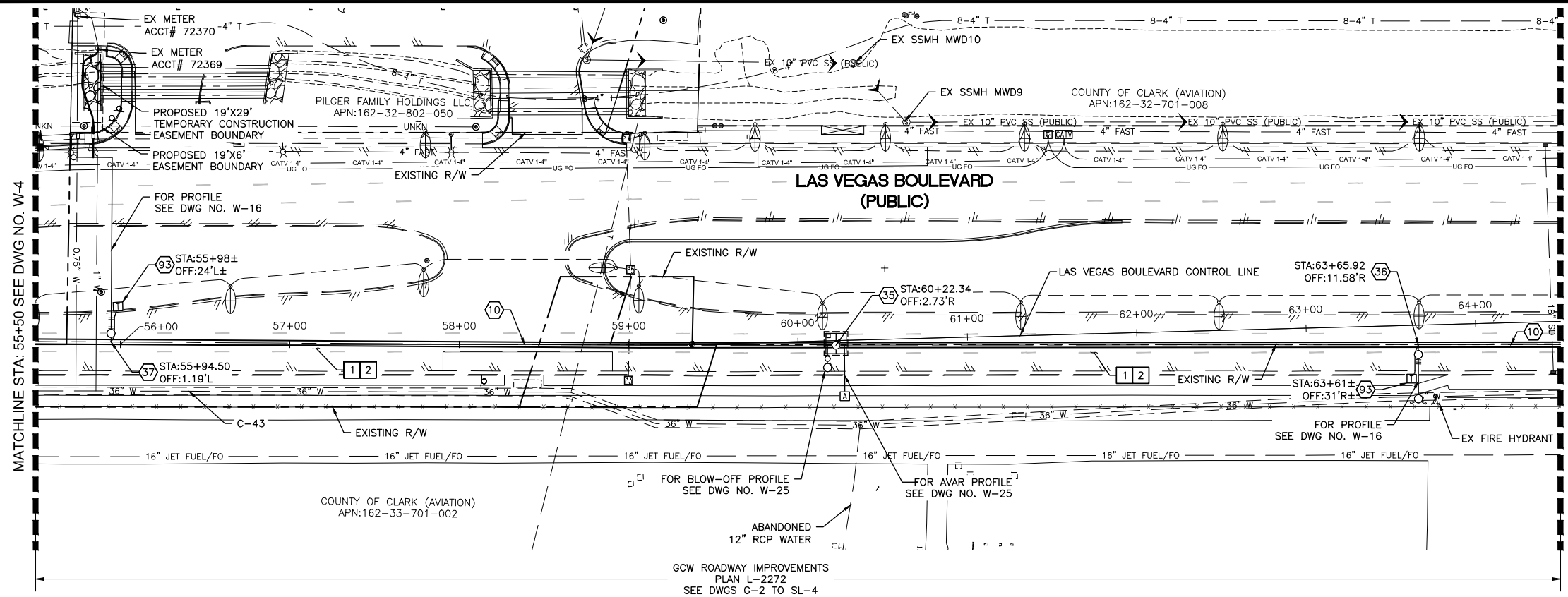
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 40'	<b>W-4</b>
VERT: 1" = 4'	SHT. 9 OF 61
FIELD BOOK	L-2272



User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd\CADD\WB Phase B Water Plans\11-13\_CA-C6.dwg  
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  - 93 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 3 ON DWG WD-19

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- 1 ALL TRENCH PER DETAILS ON DWG WD-1
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**CLARK COUNTY DEPARTMENT OF AVIATION NOTE**

FOR ALL WORK WITHIN 2FT OF AIRFIELD OPERATIONS AREA FENCE LINE OR WITHIN PROTECTION ZONE SEE DOA NOTES ON DRAWING WG-4.

NO DEDICATED EASEMENT OR RIGHT-OF-WAY FOUND ON RECORD FOR THE EXISTING 36" WATERLINE ON DEPARTMENT OF AVIATION PROPERTY.

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

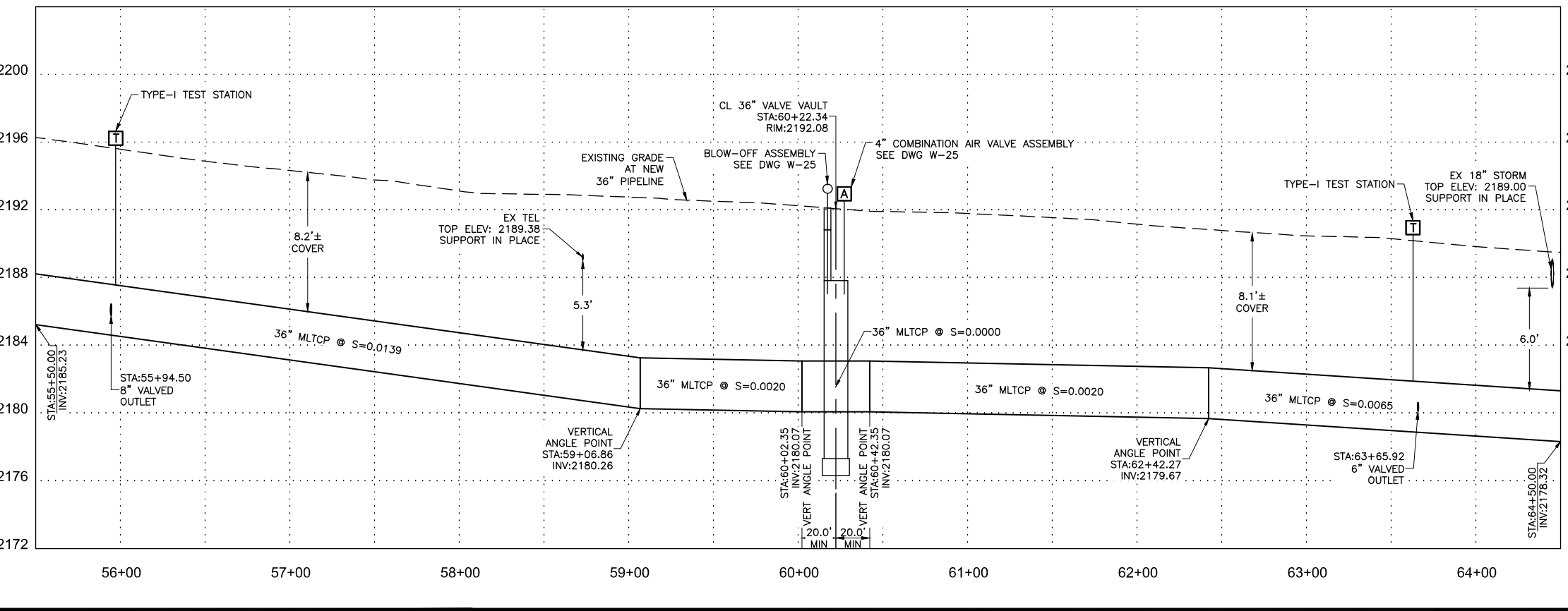
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NO.	REVISIONS	DATE

**CLARK COUNTY NEVADA**  
**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**36" WATER STA 55+50 TO STA 64+50 PLAN AND PROFILE**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

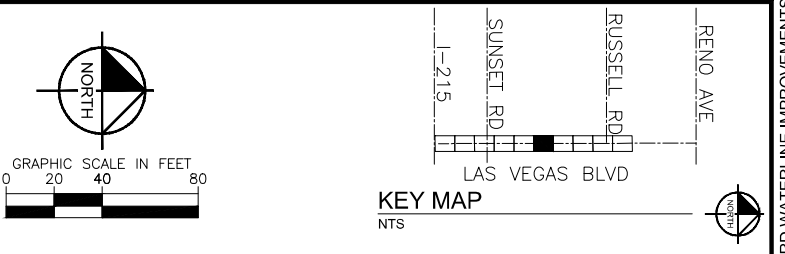
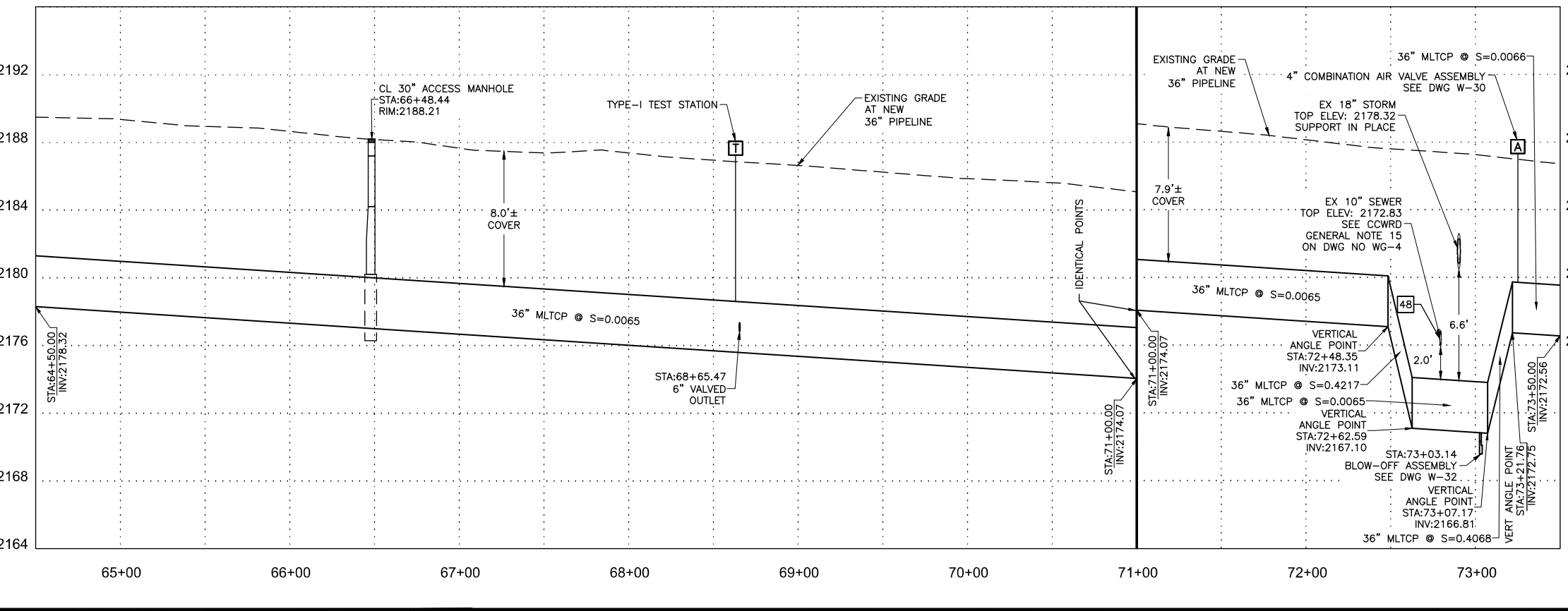
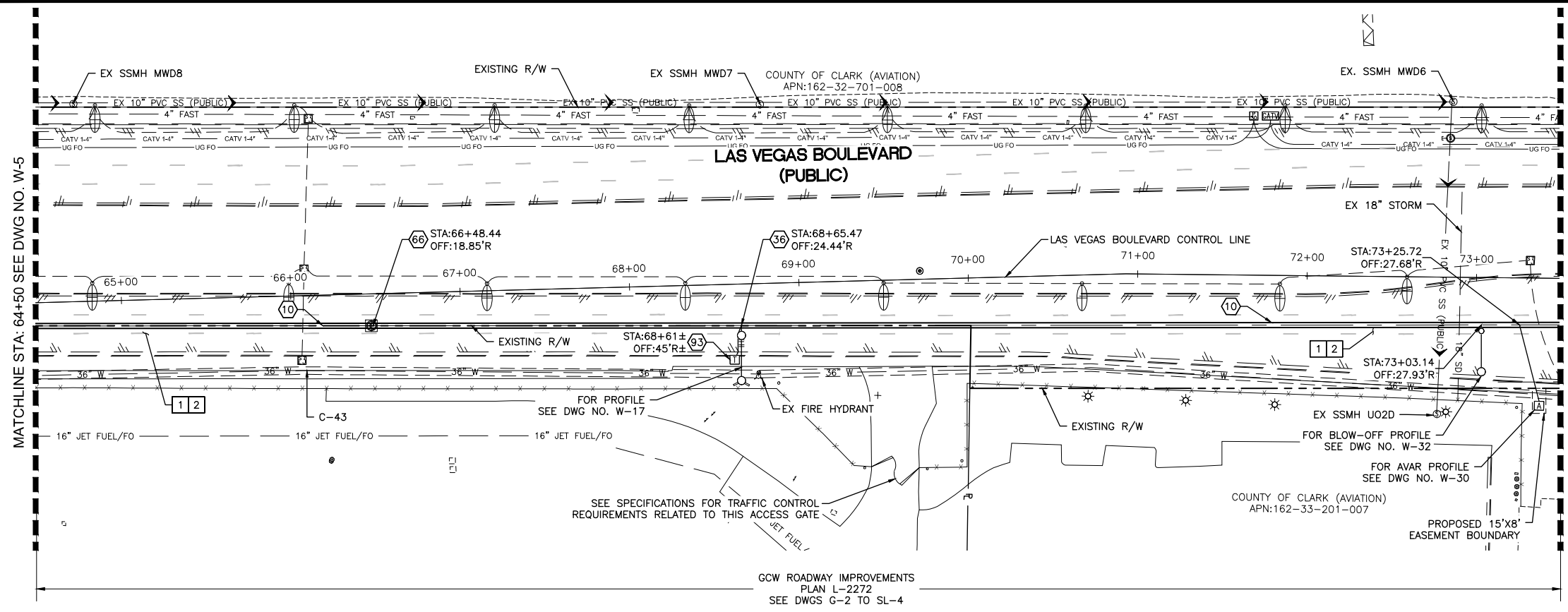
11-05-2020

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: 1" = 40'  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: 1" = 4'  
 APPROVED BY: FIELD BOOK: SHT. 10 OF 61  
**Kimley»Horn**  
 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. (702) 882-3600

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



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 PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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NO.	REVISIONS	DATE

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**36" WATER STA 64+50 TO STA 73+50 PLAN AND PROFILE**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

11-05-2020

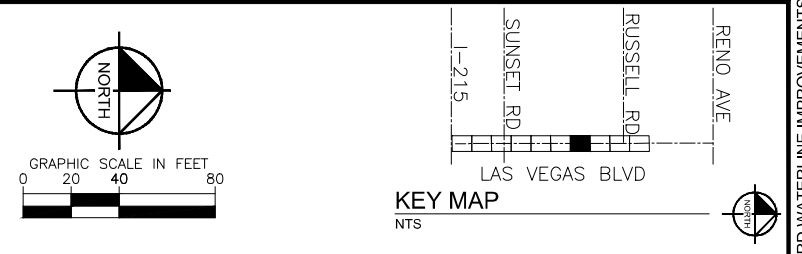
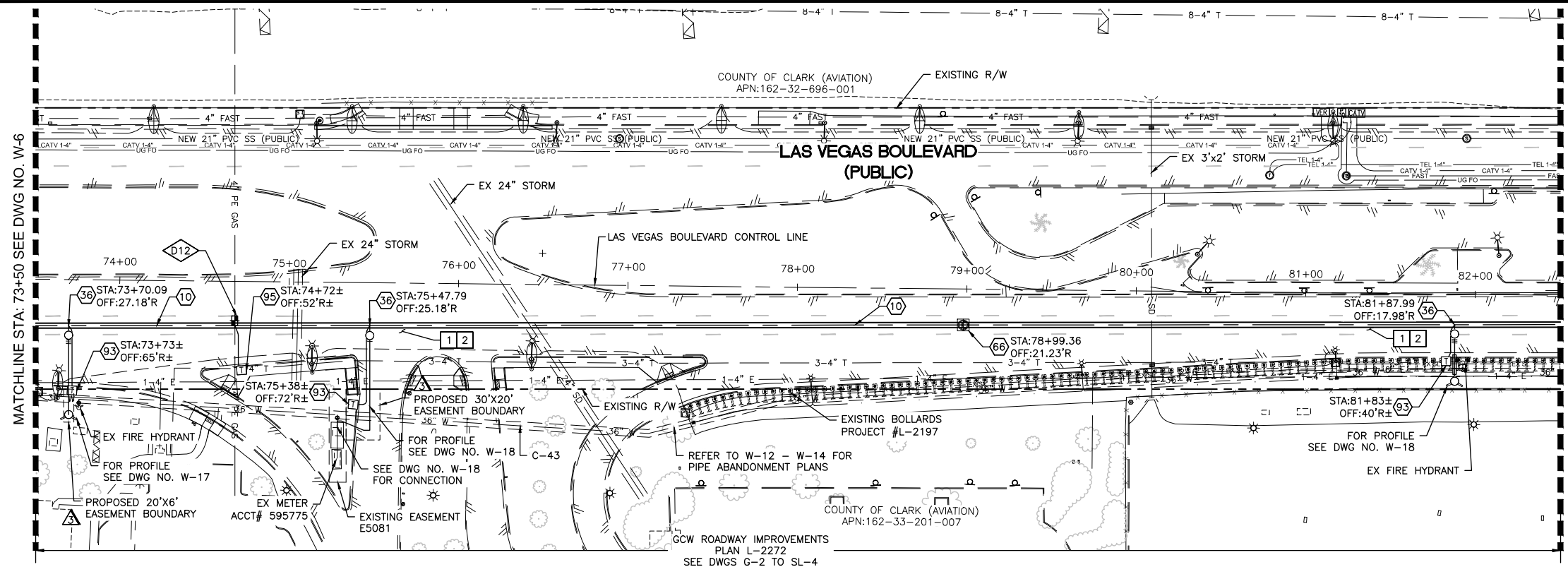
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: 1" = 40' VERT: 1" = 4' FIELD BOOK: DRAWING NO. W-6 SHT. 11 OF 61 L-2272

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. (702) 882-3600

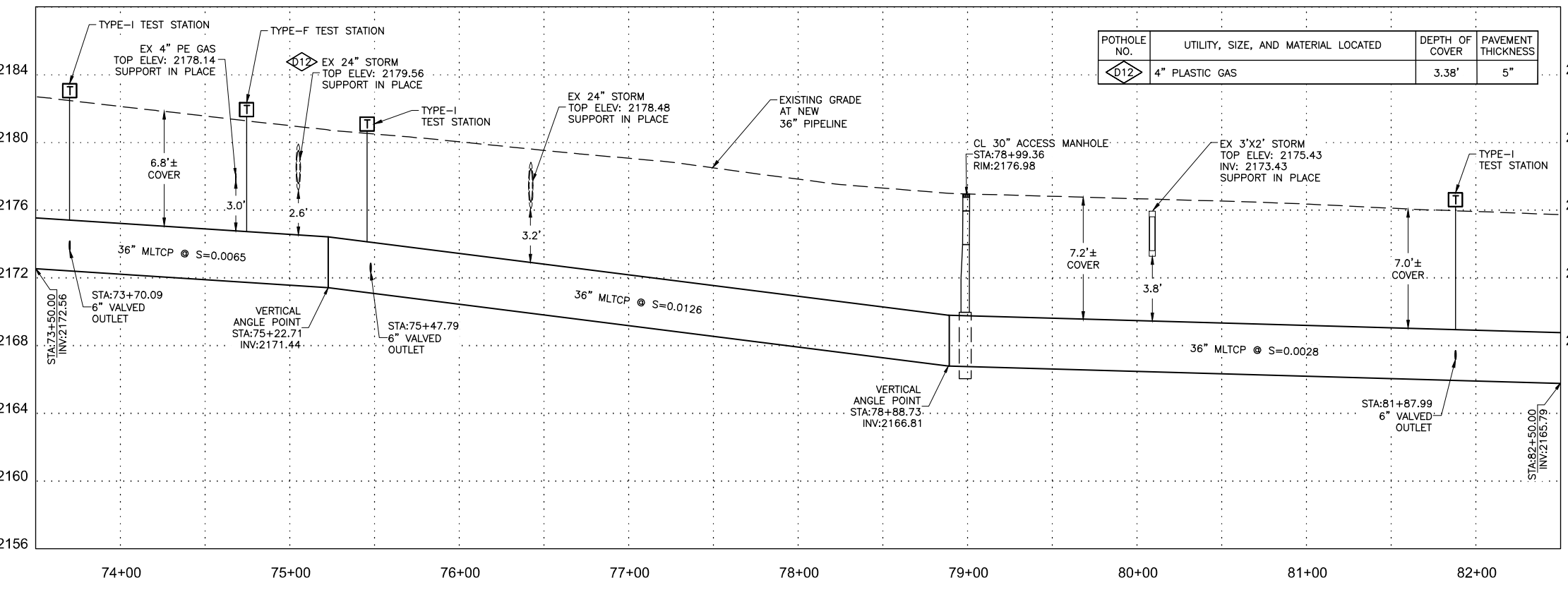
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  - 93 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 3 ON DWG WD-19
  - 95 INSTALL TYPE F (FOREIGN) TEST STATION PER DETAIL 2 ON DWG WD-19

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FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.



**CLARK COUNTY DEPARTMENT OF AVIATION NOTE**

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IF REMOVAL OF A PORTION OF EXISTING SD CULVERT BECOMES NECESSARY FOR CONSTRUCTION OF THE WATERLINE, CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY MEASURES TO PREVENT AIRFIELD BREACH, AS DIRECTED BY DOA. SEE PROJECT SPECIFICATIONS, SECTION 629.

NO DEDICATED EASEMENT OR RIGHT-OF-WAY FOUND ON RECORD FOR THE EXISTING 36" WATERLINE ON DEPARTMENT OF AVIATION PROPERTY.

**FIRE DEPARTMENT APPROVAL**

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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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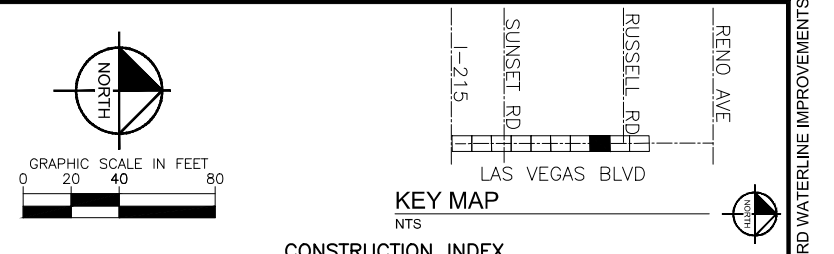
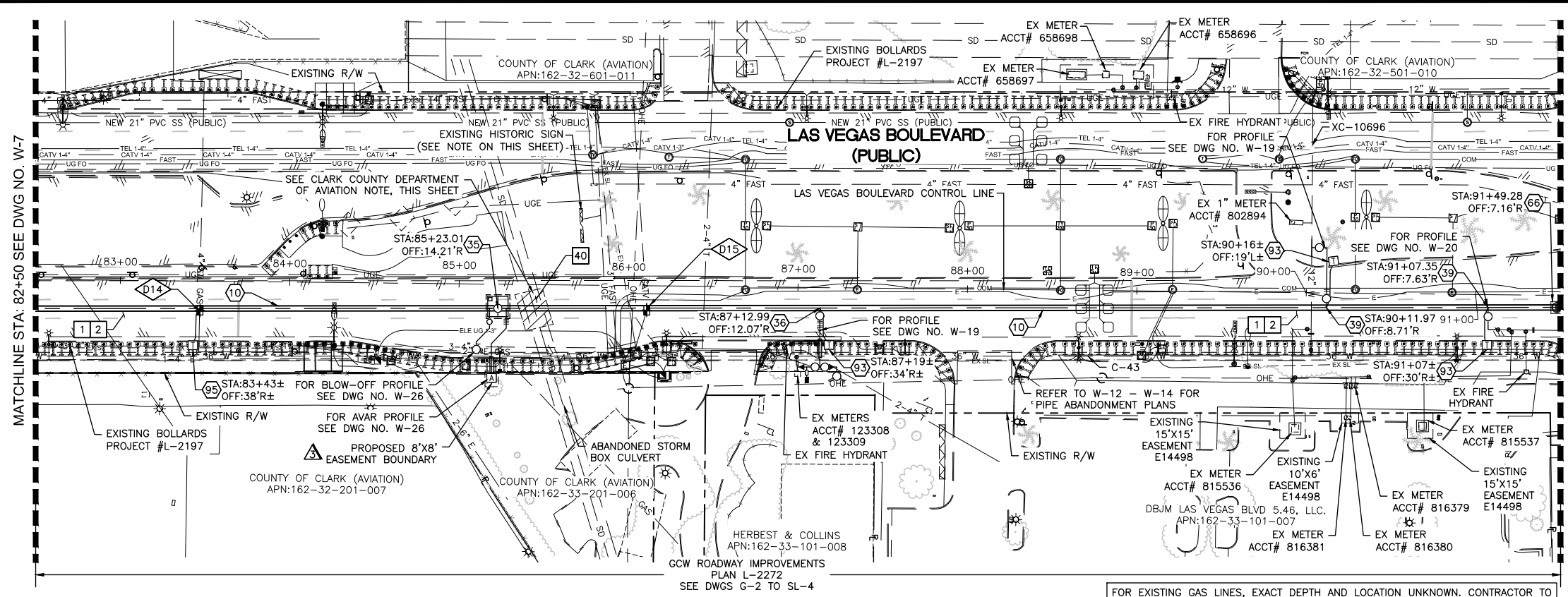
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11-05-2020

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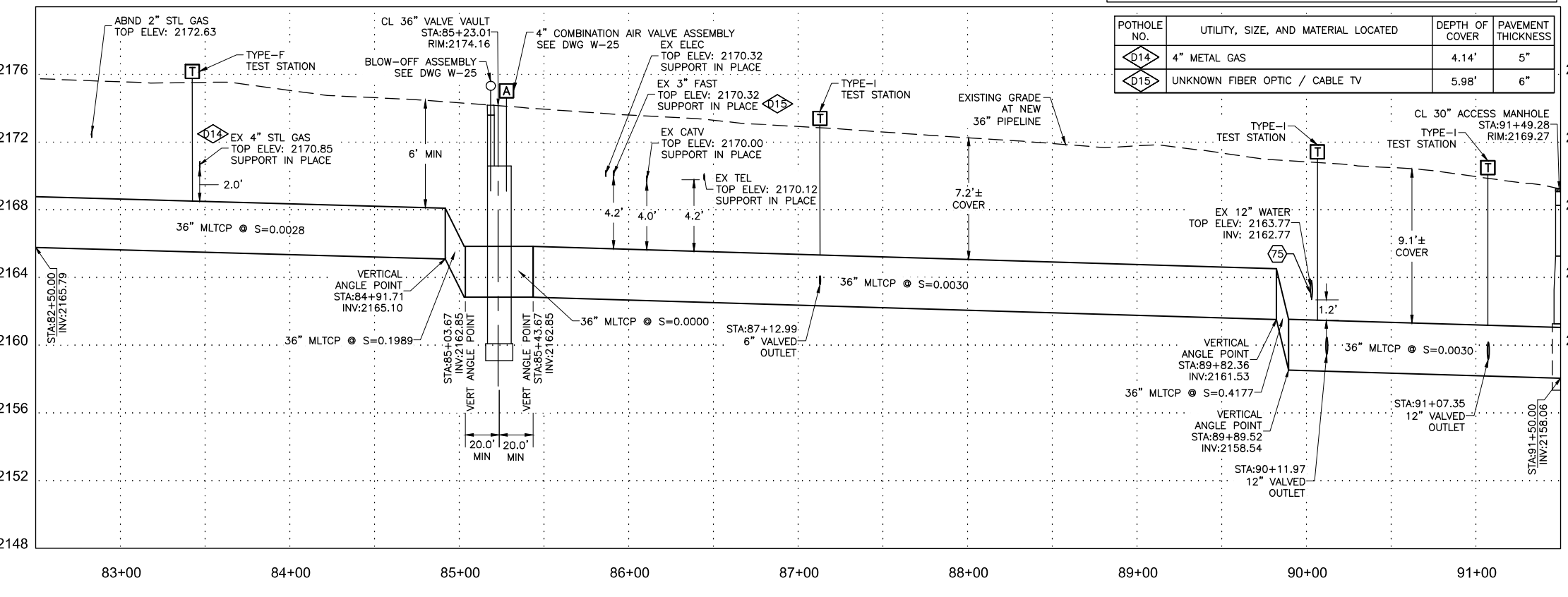
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  - 66 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
  - 75 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
  - 93 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 3 ON DWG WD-19
  - 95 INSTALL TYPE F (FOREIGN) TEST STATION PER DETAIL 2 ON DWG WD-19
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- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 40 REMOVE & DISPOSE ABANDONED STORM DRAIN LENGTH AS NEEDED

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
D14	4" METAL GAS	4.14'	5"
D15	UNKNOWN FIBER OPTIC / CABLE TV	5.98'	6"



**EXISTING HISTORIC SIGN**

DO NOT DISTURB "WELCOME TO FABULOUS LAS VEGAS NEVADA" HISTORIC SIGN PER LAS VEGAS VALLEY WATER DISTRICT REQUEST

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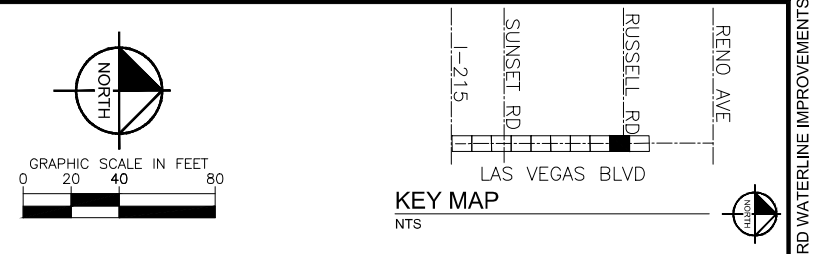
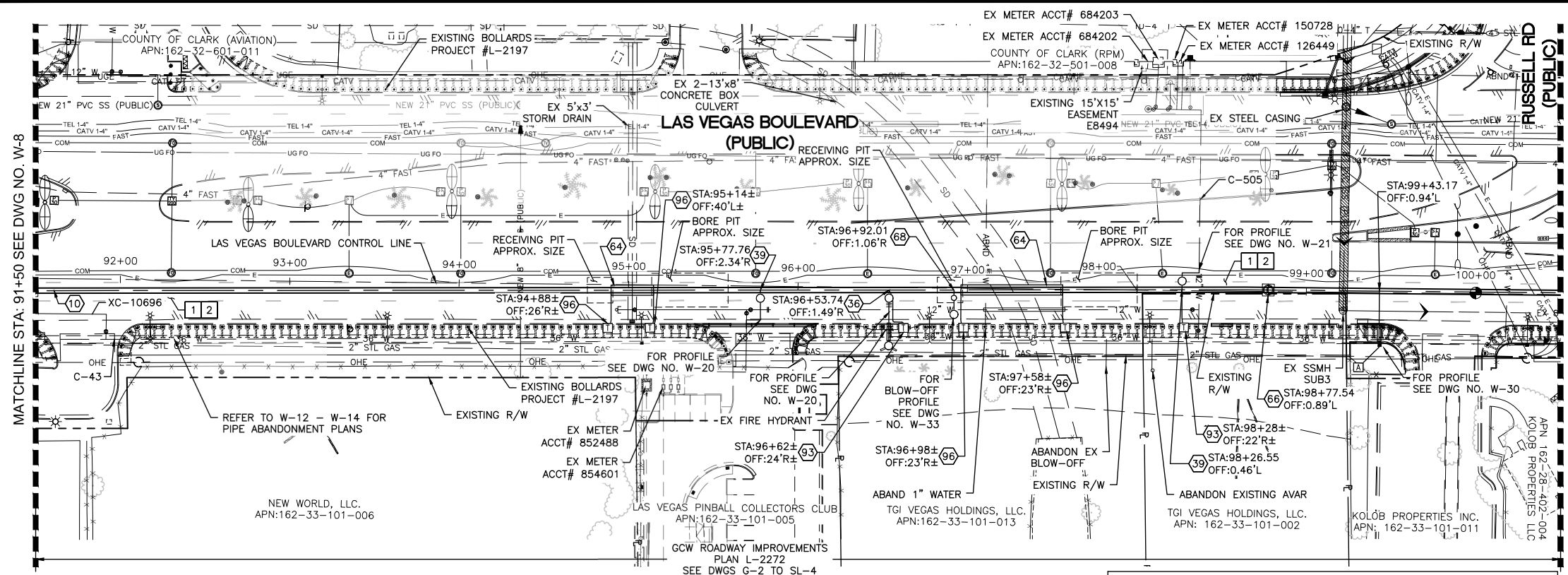
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**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

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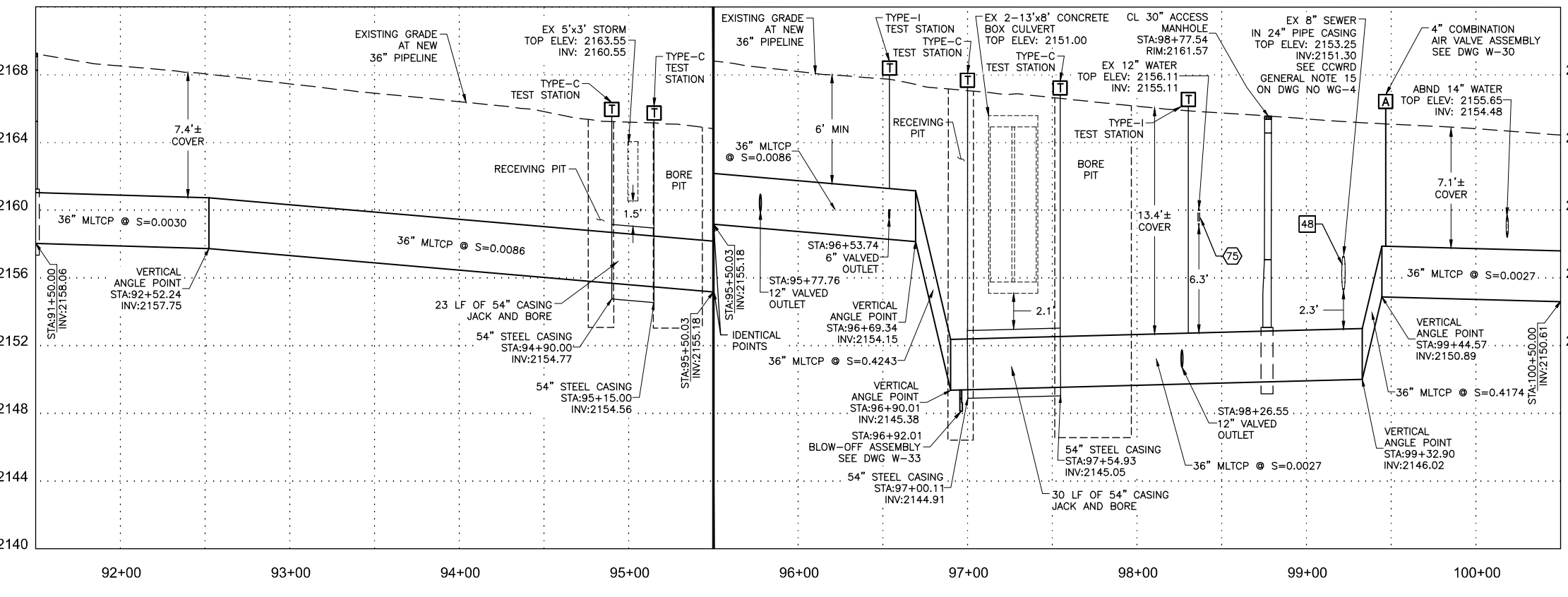
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  - 64 INSTALL PIPE CASING PER DETAIL 1 ON DWG WD-10
  - 66 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
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  - 96 INSTALL TYPE C (CASING) TEST STATION PER DETAIL 1 ON DWG WD-20



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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI DATE: 3/2/2021

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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NO.	REVISIONS	DATE

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

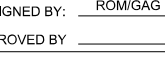
**36" WATER STA 91+50 TO STA 100+50 PLAN AND PROFILE**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

11-05-2020

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: 1" = 40'

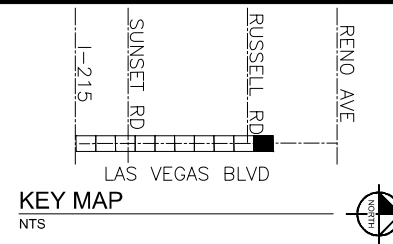
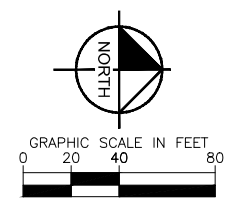
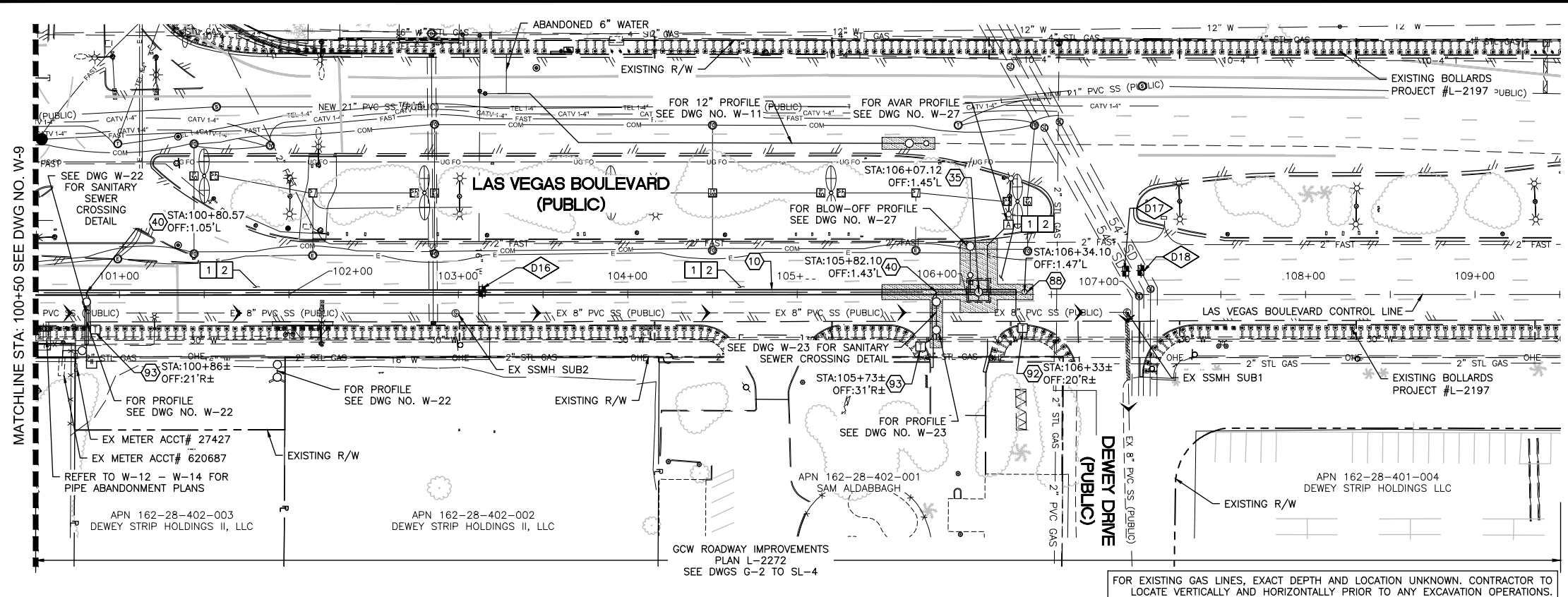
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: 1" = 4'

APPROVED BY:  RAY P. MONTOYA, CIVIL ENGINEER, No. 025877, EXPIRES 12/31/2021

**Kimley Horn**  
6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

FIELD BOOK:   
DRAWING NO. **W-9**  
SHT. 14 OF 61  
L-2272

User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CADD\WB Phase B Water Plans\17\_010.dwg  
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- ### CONSTRUCTION INDEX
- 10 INSTALL 36" MLTC PIPE, WELD ALL JOINTS, STA 20+31.73 TO STA 106+29.12
  - 35 INSTALL 36" BUTTERFLY VALVE AND VAULT PER DETAILS ON DWGS WD-2 THROUGH WD-6
  - 40 INSTALL 16" VALVED OUTLET PER DETAIL 4 ON DWG WD-11 WITH FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-21 AND GATE VALVE PER DETAIL 3 ON DWG WD-10 WITH VALVE STEM EXTENSION PER DETAIL 2 ON DWG WD-11
  - 75 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
  - 88 INSTALL BUMPED HEAD AT END OF PIPE WITH AIR RELEASE VALVE ASSEMBLY PER DETAIL 5 ON DWG WD-13
  - 92 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 1 ON DWG WD-19
  - 93 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 3 ON DWG WD-19

- ### CONSTRUCTION NOTES
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
D16	16" PER ONE CELL METAL WATER	5.71'	6"
D17	54" CONCRETE STORM DRAIN	9.58'	8"
D18	54" CONCRETE STORM DRAIN	9.58'	8"

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI DATE: 3/2/2021

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

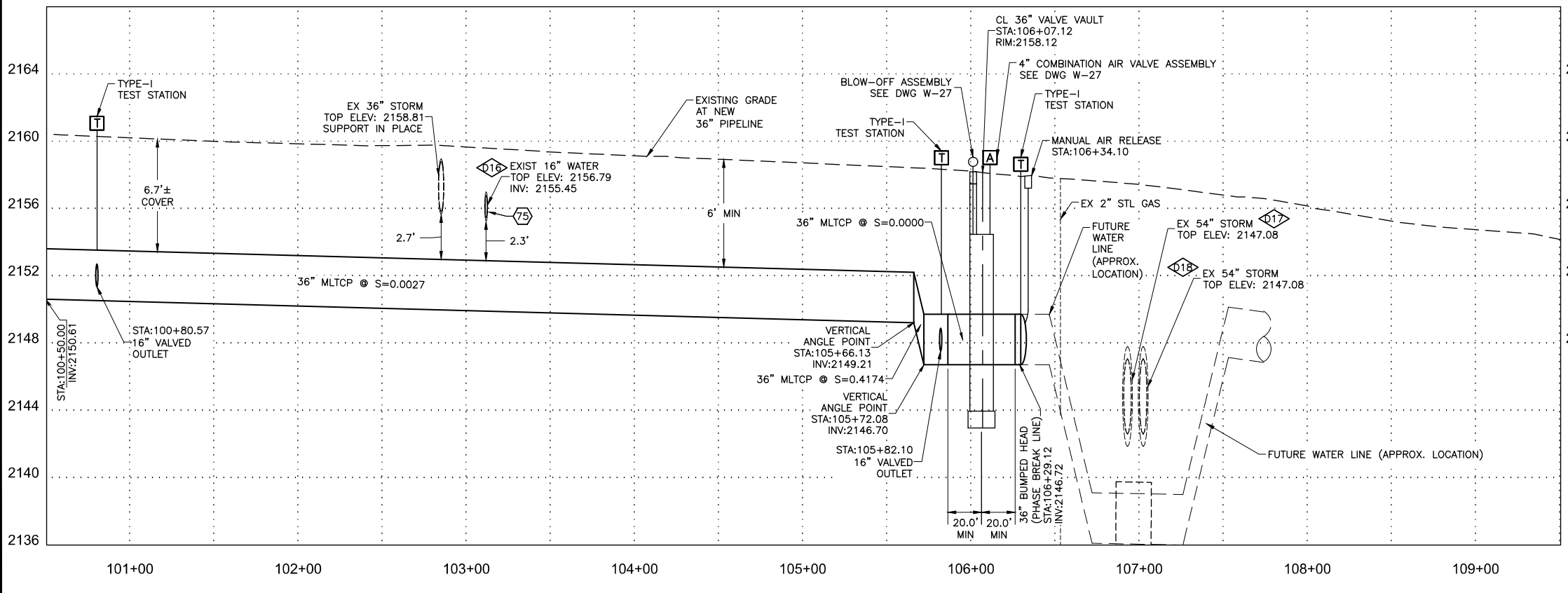
PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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NO.	REVISIONS	DATE

**CLARK COUNTY**  
**Nevada**  
**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**36" WATER STA 100+50 TO STA 109+50 PLAN AND PROFILE**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

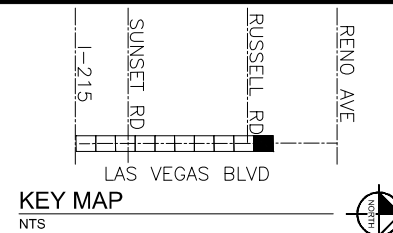
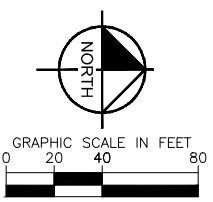
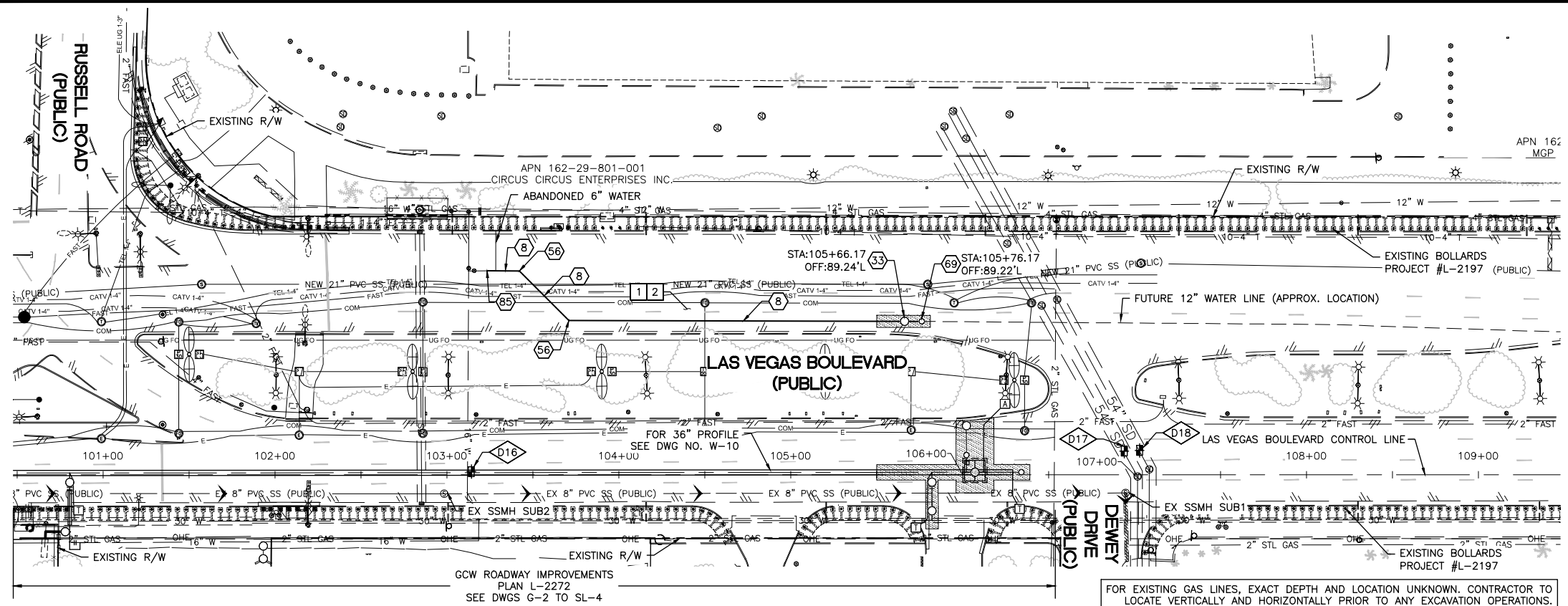
REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA  
**RAY P. MONTOYA**  
 Exp. 12/31/2021  
 CIVIL  
 License No. 025817  
 11-05-2020

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_  
**Kimley»Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 40'	W-10
VERT: 1" = 4'	
FIELD BOOK	SHT. 15 OF 61
	L-2272



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- ### CONSTRUCTION INDEX
- 8 INSTALL 12" DIP, RESTRAIN ALL JOINTS
  - 33 INSTALL 12" GATE VALVE, VALVE BOX INSTALLATION WITH VALVE STEM EXTENSION PER DETAIL 4 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
  - 56 INSTALL 12" X 45' BEND, RESTRAIN ALL JOINTS
  - 69 INSTALL BLOW-OFF ASSEMBLY PER UDACS PLATE 36 ON DWG WD-16
  - 85 CONNECT TO EXISTING 12" PIPE

- ### CONSTRUCTION NOTES
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
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APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

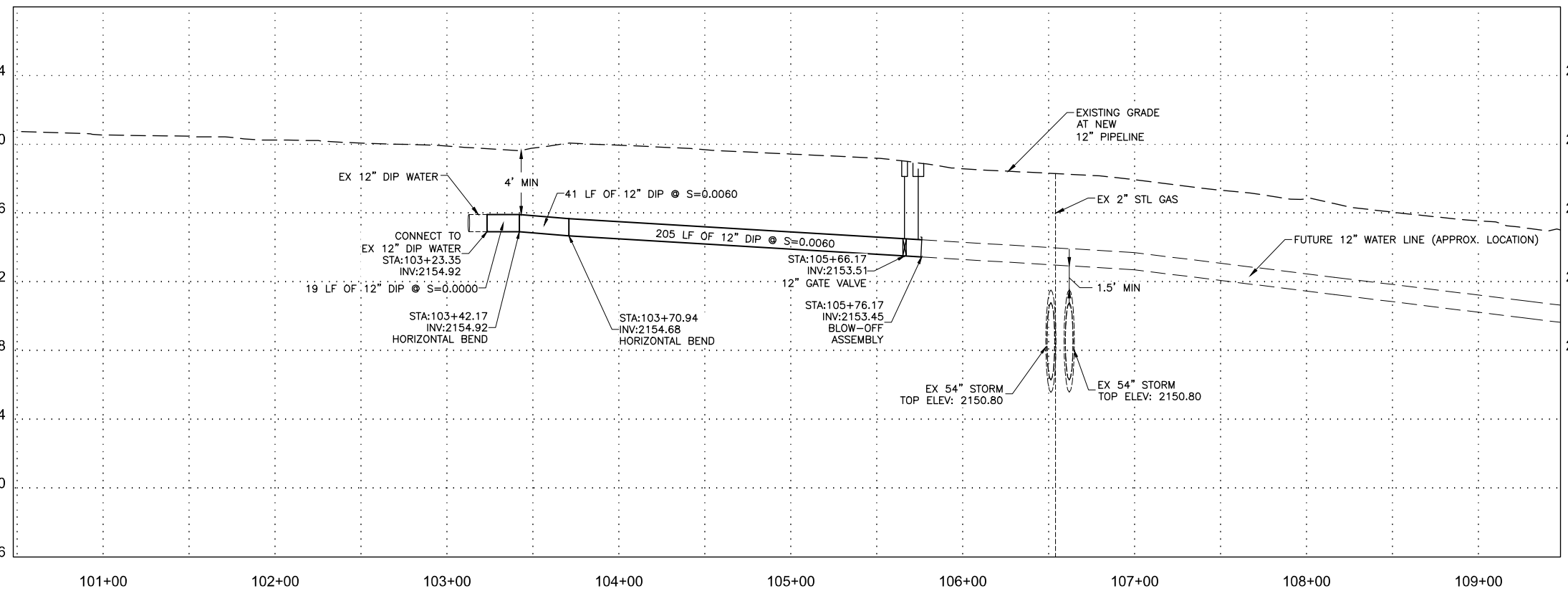
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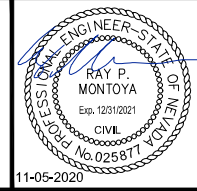
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

12" WATER STA 100+50 TO STA 109+50 PLAN AND PROFILE

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



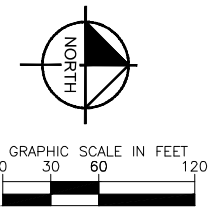
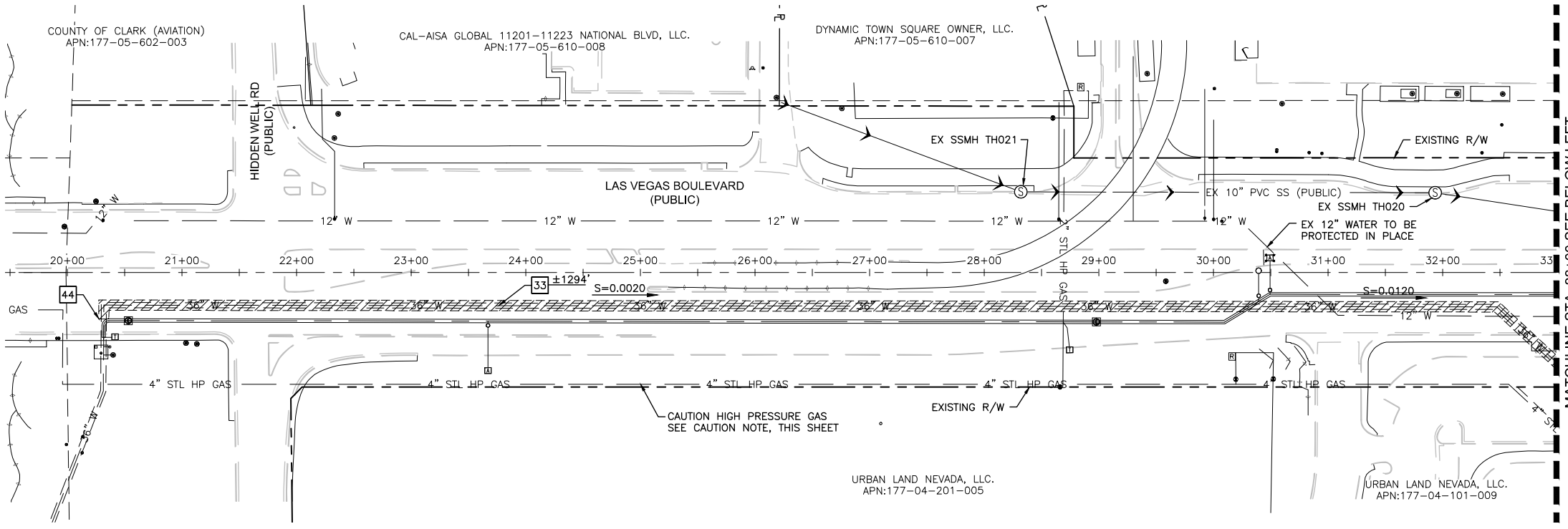
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
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 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 40'	W-11
VERT: 1" = 4'	SHT. 16 OF 61
FIELD BOOK	L-2272

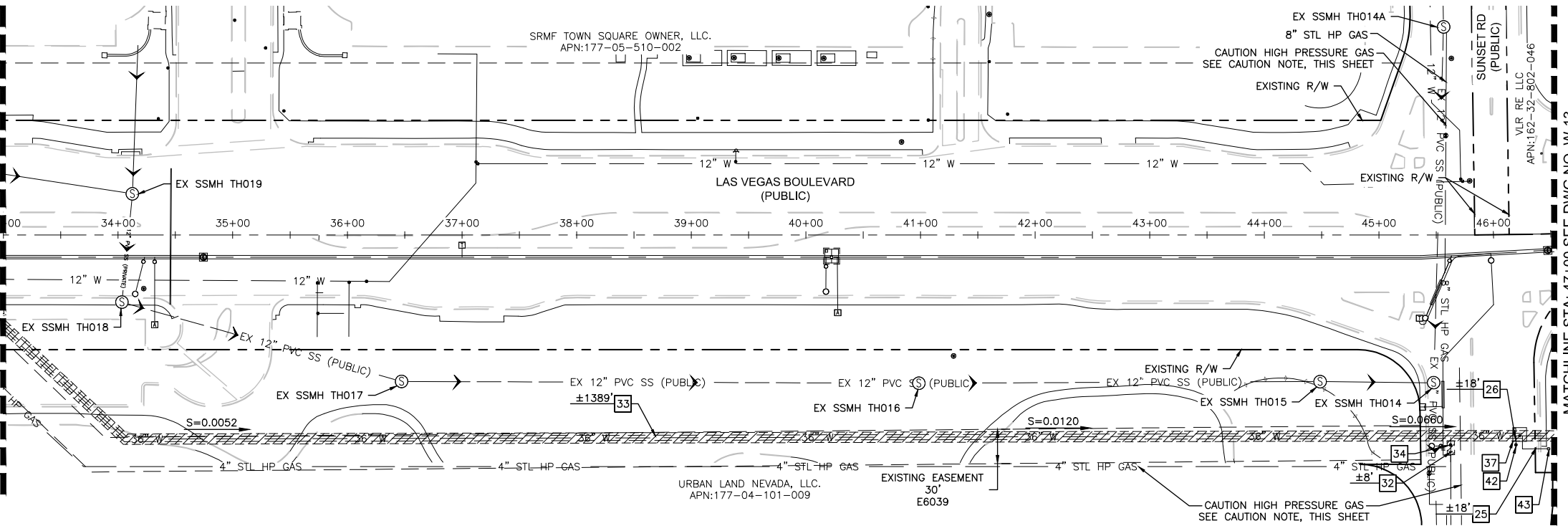


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- CONSTRUCTION NOTES**
- 25 ABANDON IN PLACE EXIST. 4" SERVICE LATERAL PER NOTE 4 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 26 ABANDON IN PLACE EXIST. 6" SERVICE LATERAL PER NOTE 4 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 32 ABANDON IN PLACE EXIST. 16" MAIN PIPE PER NOTE 2 LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 33 ABANDON IN PLACE EXIST. 36" MAIN PIPE PER NOTE 2 LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 34 ABANDON IN PLACE EXIST. VALVE PER ABANDONMENT OF VALVES NOTE THIS DRAWING
  - 37 ABANDON VAULT PER DETAIL 3 ON DWG WD-12
  - 42 ABANDON BLOW-OFF VALVE AND RISER PER LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 43 REMOVE ABOVE-GROUND AVAR APPURTENANCE AND DELIVER TO LVVWD
  - 44 EXISTING WATER MAIN TO BE CAPPED PER LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3

**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION



**ABANDONMENT NOTE**  
 ALL ABANDONMENT WORK FOR EXISTING WATER MAINS LOCATED ON DEPARTMENT OF AVIATION PROPERTY SHALL BE COMPLETED FROM THE RIGHT-OF-WAY, WITH NO CONTRACTOR PERSONNEL ENTERING THE AIRFIELD.

**ABANDONMENT OF VALVES**  
 ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF TWENTY-FOUR (24") INCHES FROM THE TOP OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8") INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.

**CUT AND CAP**  
 THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

- NOTE TO CONTRACTOR**
1. CONTRACTOR TO COORDINATE WITH LAS VEGAS VALLEY WATER DISTRICT (LVVWD) TO VERIFY EXISTING AND ABANDONED MAINS AND VALVE CONDITIONS.
  2. FOR ABANDONMENT OF EXISTING SERVICE LATERALS TWO (2) INCH AND SMALLER, SEE LAS VEGAS VALLEY WATER DISTRICT SYSTEM ABANDONMENT NOTE 2, SHEET WG-3.
  3. FOR ABANDONMENT OF EXISTING SERVICE LATERALS THREE (3) INCH AND LARGER, SEE LAS VEGAS VALLEY WATER DISTRICT SYSTEM ABANDONMENT NOTE 3, SHEET WG-3.
  4. FOR ABANDONMENT PURPOSES, CONTRACTOR SHALL CONTACT AND/OR COORDINATE WITH APPROPRIATE AGENCY, ACCESS TO EXISTING 36" WATER MAIN.

**LEGEND**

ZZZZZZZZ MAIN TO BE ABANDONED IN PLACE AND FILLED WITH CLSM-1 PER UDACS 2.12. CONTRACTOR TO PROVIDE BOTH METHOD OF FILLING AND ABANDONMENT PLAN TO LVVWD FOR APPROVAL PRIOR TO ABANDONMENT.

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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NO.	REVISIONS	DATE

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**WATER ABANDONMENT PLAN STA 19+50 TO STA 46+50**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

CLARK COUNTY NEVADA

Professional Engineer - State of Nevada  
 RAY P. MONTOYA  
 Exp. 12/31/2021  
 CIVIL  
 No. 025817

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: 1" = 60'

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: N/A

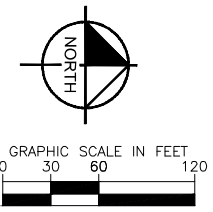
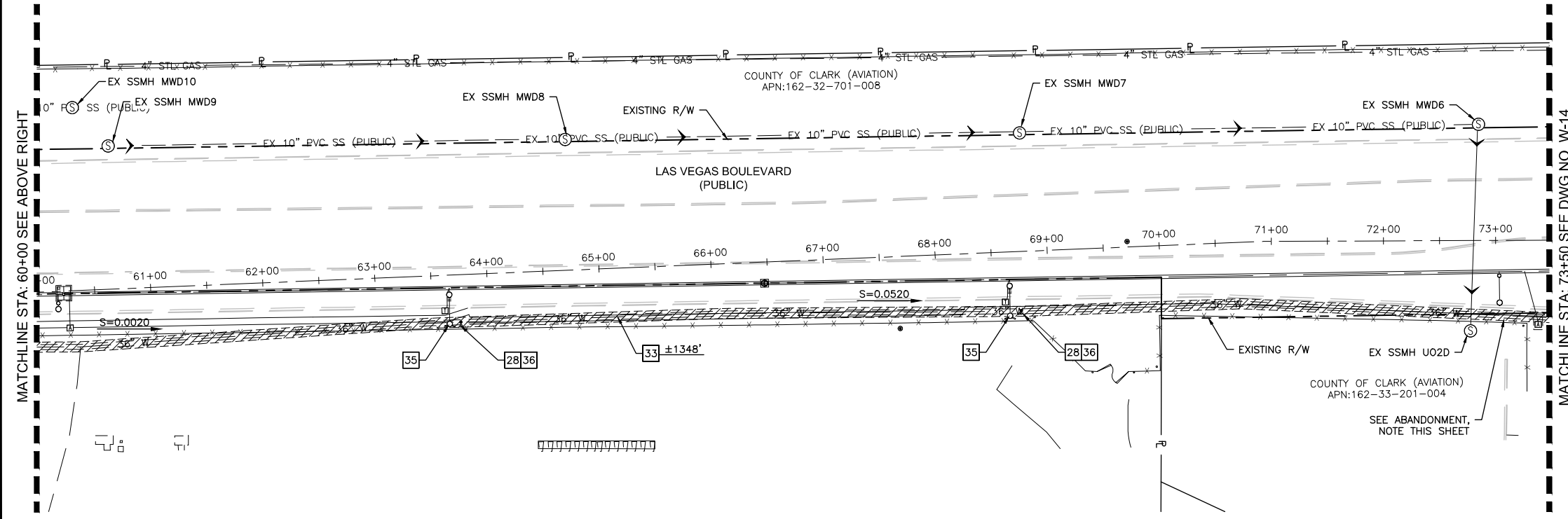
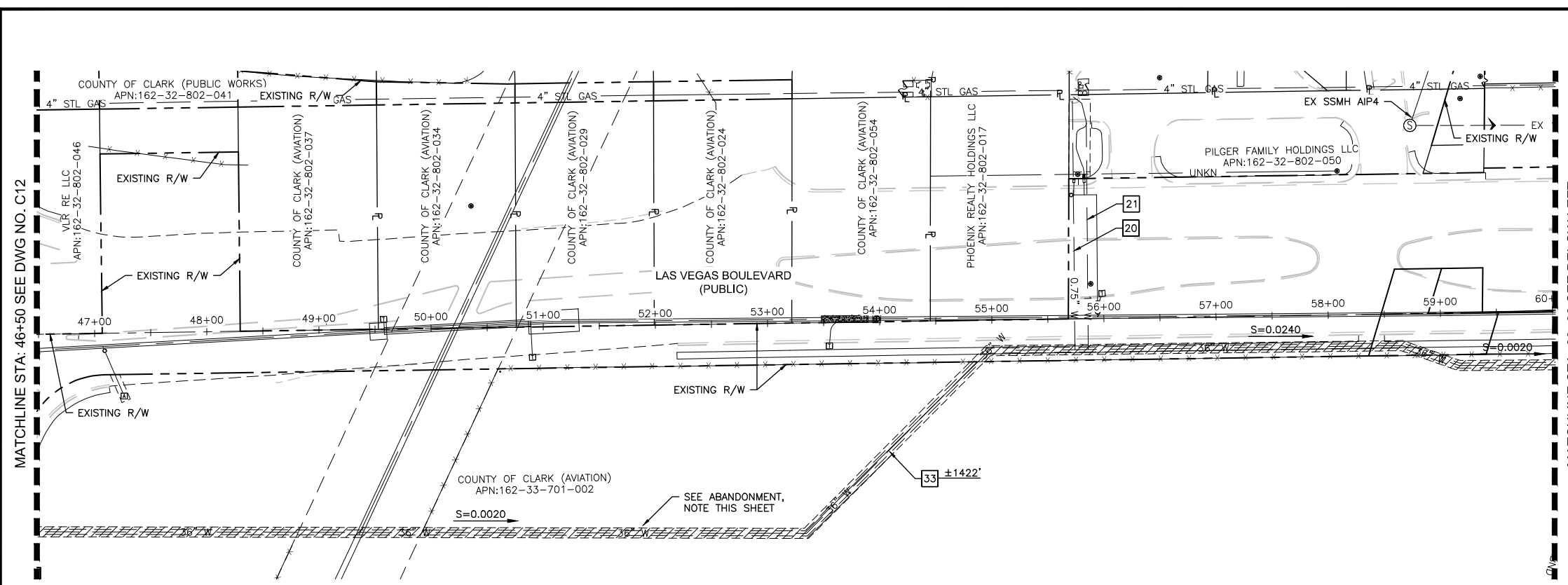
APPROVED BY: **Kimley Horn** FIELD BOOK: L-2272

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DRAWING NO. **W-12**  
 SHT. 17 OF 61  
 L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

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- CONSTRUCTION NOTES**
- 20 ABANDON IN PLACE EXIST. 3/4" SERVICE LATERAL PER NOTE 3 OF LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 21 ABANDON IN PLACE EXIST. 1" SERVICE LATERAL PER NOTE 3 OF LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 28 ABANDON IN PLACE EXIST. 6" MAIN PIPE PER NOTE 2 OF LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 33 ABANDON IN PLACE EXIST. 36" MAIN PIPE PER NOTE 2 LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
  - 35 NEW FIRE HYDRANT LOCATION
  - 36 ABANDON EXISTING FIRE HYDRANT AND LATERAL PER NOTE 5 OF LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3

**ABANDONMENT NOTE**

ALL ABANDONMENT WORK FOR EXISTING WATER MAINS LOCATED ON DEPARTMENT OF AVIATION PROPERTY SHALL BE COMPLETED FROM THE RIGHT-OF-WAY, WITH NO CONTRACTOR PERSONNEL ENTERING THE AIRFIELD.

NO DEDICATED EASEMENT OR RIGHT-OF-WAY FOUND ON RECORD FOR THE EXISTING 36" WATERLINE ON DEPARTMENT OF AVIATION PROPERTY

**ABANDONMENT OF VALVES**

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF TWENTY-FOUR (24") INCHES FROM THE TOP OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8") INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.

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THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

- NOTE TO CONTRACTOR**
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  - FOR ABANDONMENT OF EXISTING SERVICE LATERALS THREE (3) INCH AND LARGER, SEE LAS VEGAS VALLEY WATER DISTRICT SYSTEM ABANDONMENT NOTE 3, SHEET WG-3.
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**LEGEND**

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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**WATER ABANDONMENT PLAN STA 46+50 TO STA 73+50**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: 1" = 60'

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: N/A

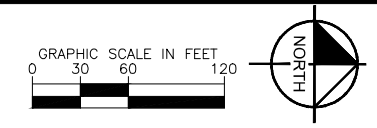
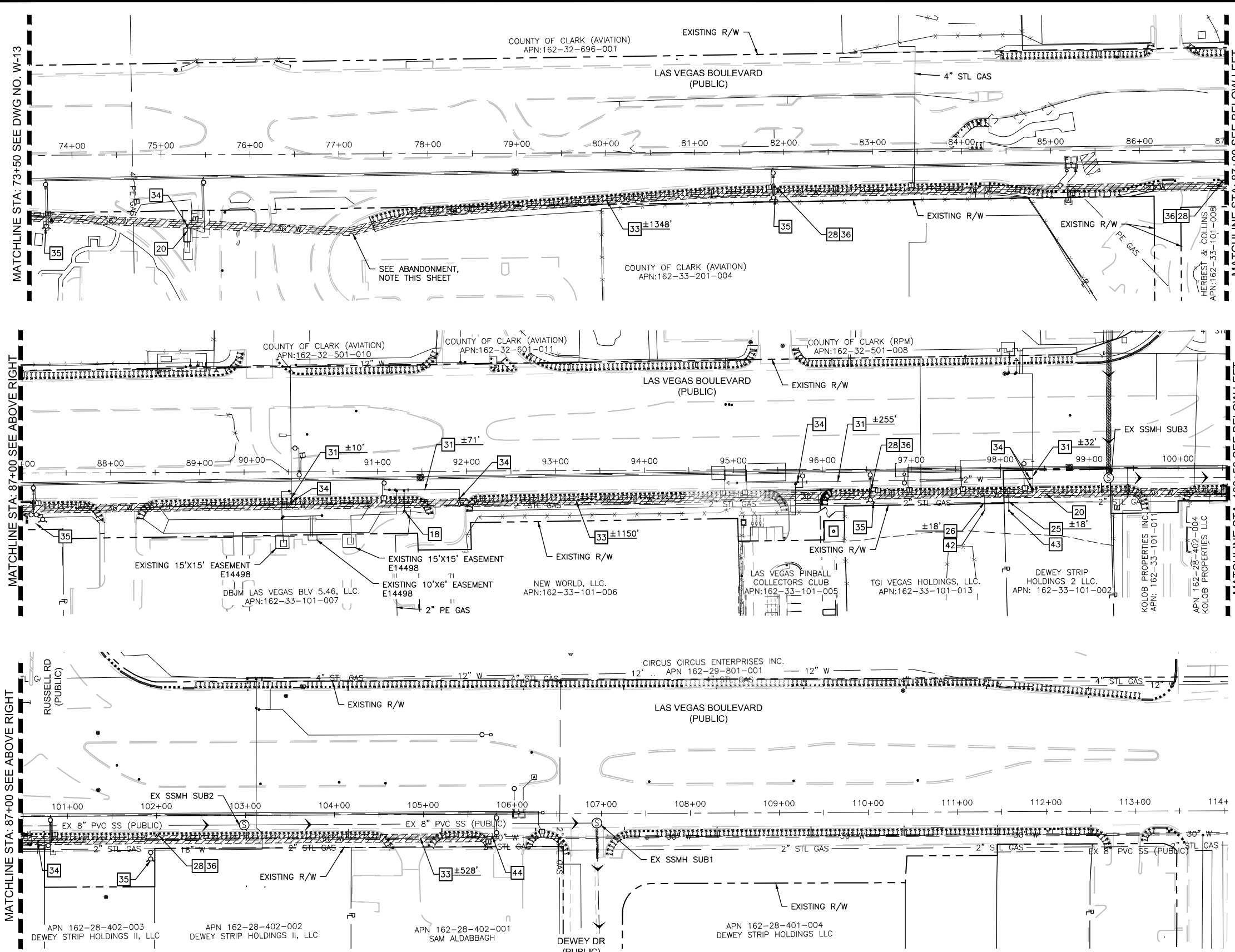
APPROVED BY: FIELD BOOK: DRAWING NO. W-13 SHT. 18 OF 61

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**CONSTRUCTION NOTES**

- 18 EXISTING FIRE HYDRANT TO REMAIN IN SERVICE PER NOTE 6 OF LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
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- 44 EXISTING WATER MAIN TO BE CAPPED PER LVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3

**ABANDONMENT NOTE**

ALL ABANDONMENT WORK FOR EXISTING WATER MAINS LOCATED ON DEPARTMENT OF AVIATION PROPERTY SHALL BE COMPLETED FROM THE RIGHT-OF-WAY, WITH NO CONTRACTOR PERSONNEL ENTERING THE AIRFIELD.

NO DEDICATED EASEMENT OR RIGHT-OF-WAY FOUND ON RECORD FOR THE EXISTING 36" WATERLINE ON DEPARTMENT OF AVIATION PROPERTY.

**ABANDONMENT OF VALVES**

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF TWENTY-FOUR (24") INCHES FROM THE TOP OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8") INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.

**CUT AND CAP**

THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

**NOTE TO CONTRACTOR**

1. CONTRACTOR TO COORDINATE WITH LAS VEGAS VALLEY WATER DISTRICT (LVWD) TO VERIFY EXISTING AND ABANDONED MAINS AND VALVE CONDITIONS.
2. FOR ABANDONMENT OF EXISTING SERVICE LATERALS TWO (2) INCH AND SMALLER, SEE LAS VEGAS VALLEY WATER DISTRICT SYSTEM ABANDONMENT NOTE 2, SHEET WG-3.
3. FOR ABANDONMENT OF EXISTING SERVICE LATERALS THREE (3) INCH AND LARGER, SEE LAS VEGAS VALLEY WATER DISTRICT SYSTEM ABANDONMENT NOTE 3, SHEET WG-3.
4. FOR ABANDONMENT PURPOSES, CONTRACTOR SHALL CONTACT AND/OR COORDINATE WITH APPROPRIATE AGENCY, ACCESS TO EXISTING 36" WATER MAIN.

**LEGEND**

ZZZZZZZZ MAIN TO BE ABANDONED IN PLACE AND FILLED WITH CLSM-1 PER UDACS 2.12. CONTRACTOR TO PROVIDE BOTH METHOD OF FILLING AND ABANDONMENT PLAN TO LVWD FOR APPROVAL PRIOR TO ABANDONMENT.

**LVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

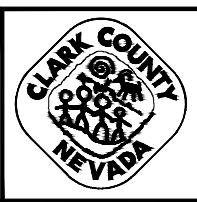
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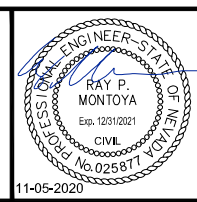
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NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
WATER ABANDONMENT PLAN STA 73+50 TO STA 114+00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
APPROVED BY: \_\_\_\_\_

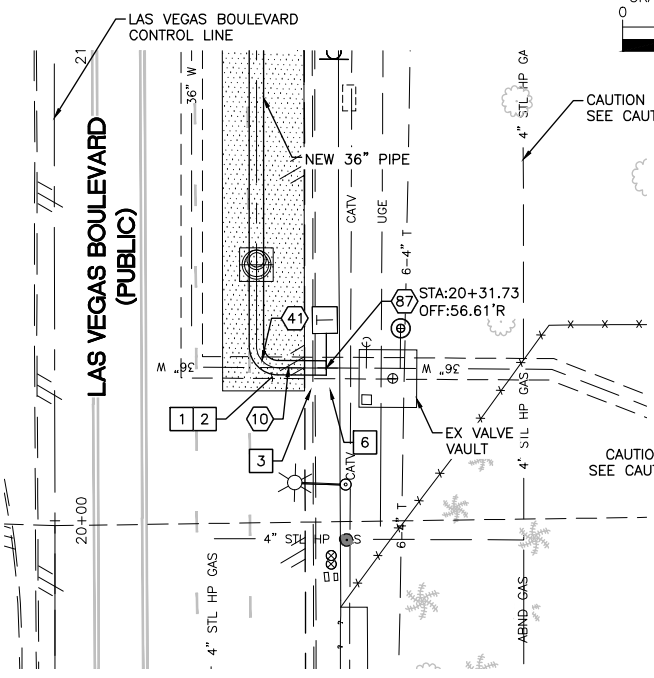
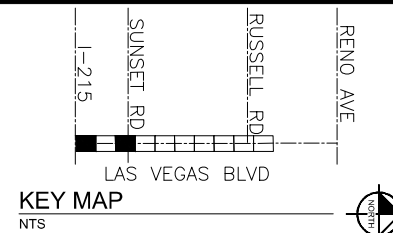
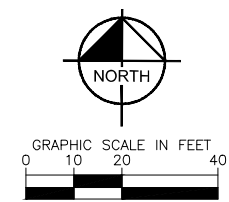
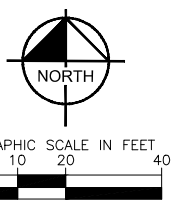
**Kimley Horn**  
6671 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	HORIZ: 1" = 60'	VERT: N/A	FIELD BOOK
DRAWING NO.	W-14		
	SHT. 19 OF 61		
	L-2272		

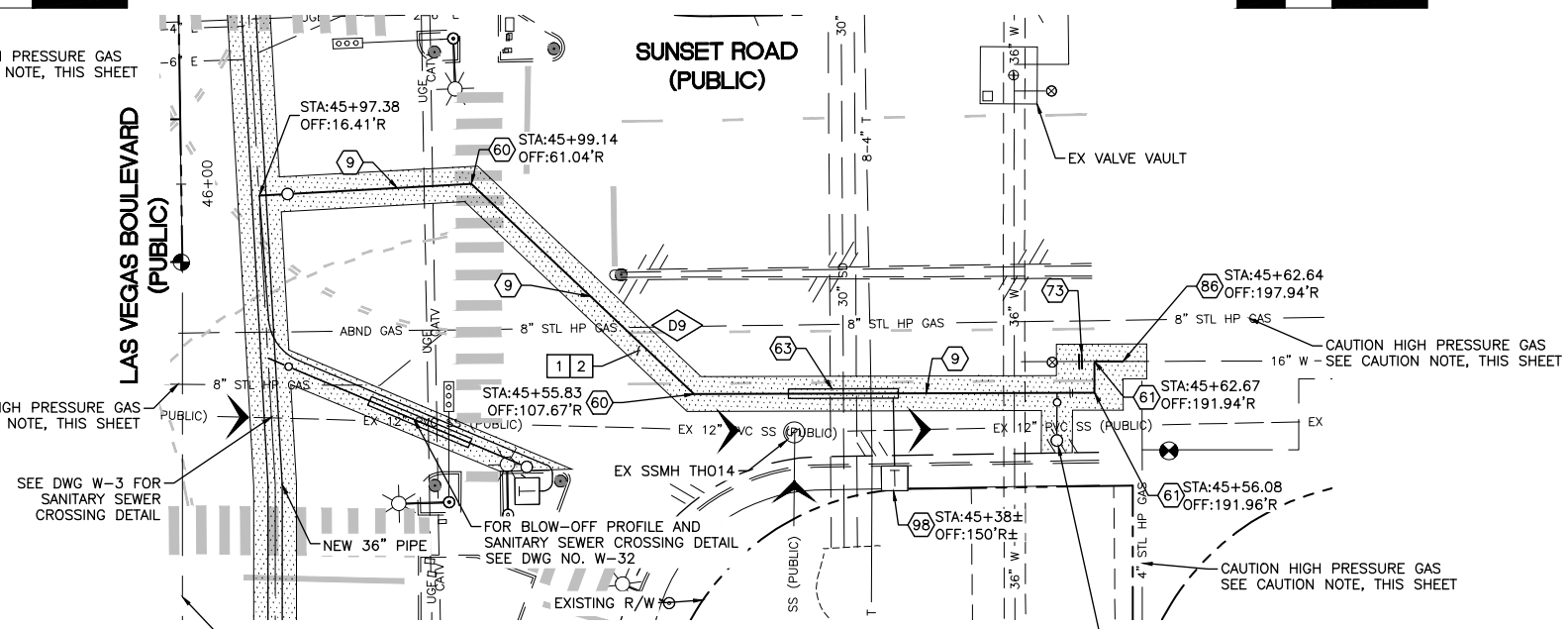
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



User: Gerardo.Gonzalez Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CAD\WV Phase B Water Plans\22-25-C15-C18-LT.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



**36" WATER MAIN CONNECTION**  
**STA: 20+31.73**  
**SEE DWG NO. W-1**



**16" WATER MAIN CONNECTION**  
**STA: 45+97.38**  
**SEE DWG NO. W-3**

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
D9	8" METAL GAS	7.92'	8"

- CONSTRUCTION INDEX**
- 9 INSTALL 16" DIP, RESTRAIN ALL JOINTS
  - 10 INSTALL 36" MLTC PIPE, WELD ALL JOINTS, STA 20+31.73 TO STA 106+29.12
  - 41 INSTALL LONG RADIUS 90° HORIZONTAL ANGLE, CENTER RADIUS = 4.5' PER DETAIL 4 ON DWG WD-13
  - 60 INSTALL 16" X 45° BEND, RESTRAIN ALL JOINTS
  - 61 INSTALL 16" X 90° BEND, RESTRAIN ALL JOINTS
  - 63 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
  - 73 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
  - 86 CONNECT TO EXISTING 16" PIPE
  - 87 CONNECT TO EXISTING 36" MLTC PIPE PER DETAIL 4 ON DWG WD-13
  - 98 INSTALL TYPE C (CASING) TEST STATION PER DETAIL 5 ON DWG WD-19

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 50 JOINTS TO BE FULLY RESTRAINED. BOND JOINTS PER DETAIL 4 ON SHT WD-12

CAUTION: HIGH PRESSURE GAS!!!  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

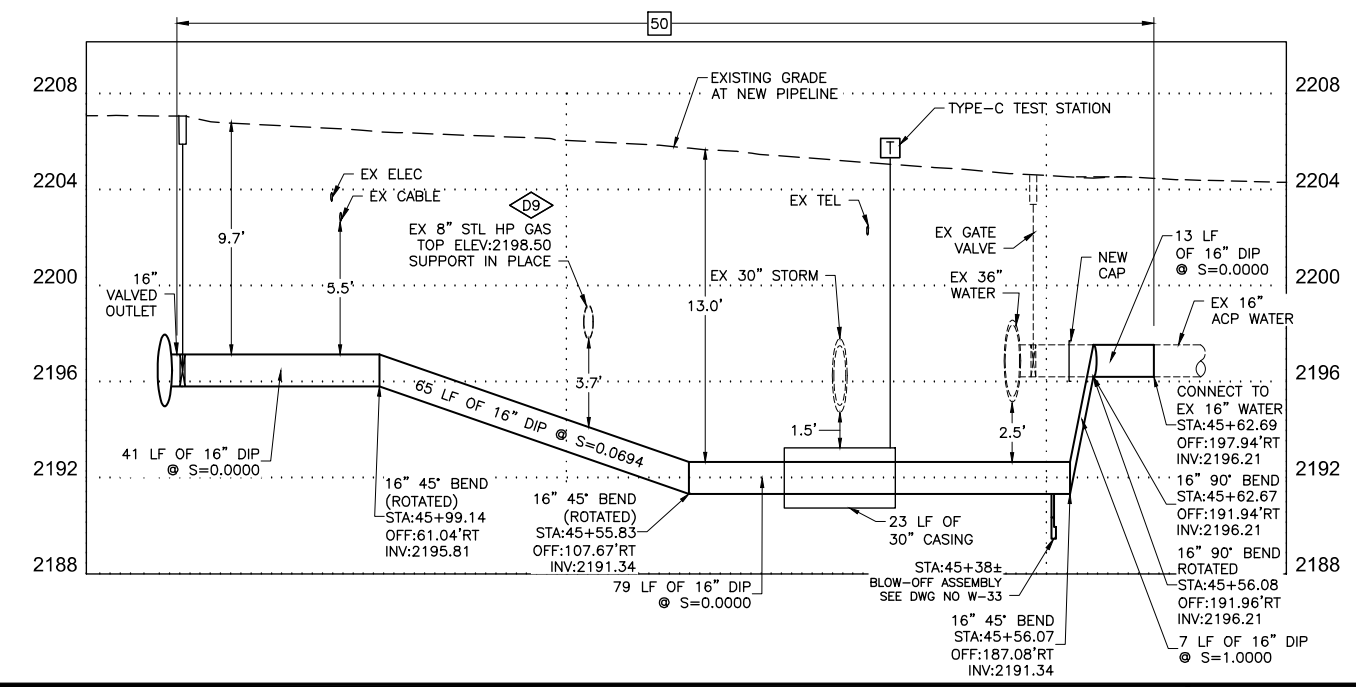
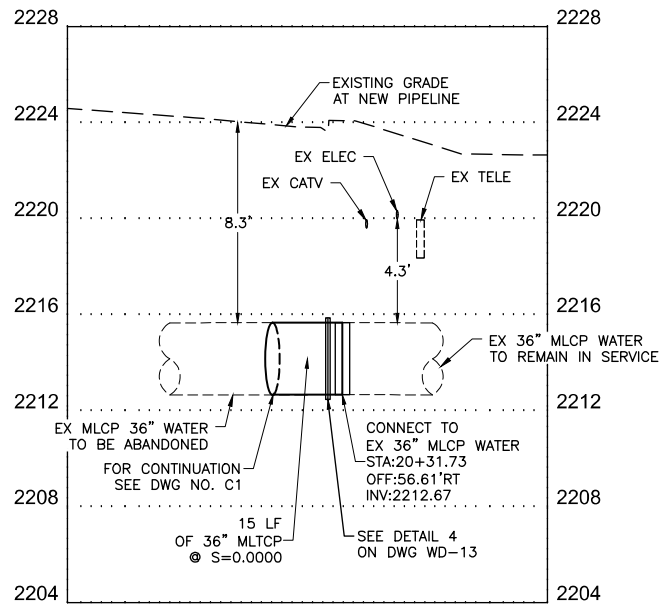
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NO.	REVISIONS	DATE

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

LATERAL RECONNECTION PLAN AND PROFILE STA 20+31 & STA 45+97

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

11-05-2020

**Professional Engineer Seal**  
 RAY P. MONTOYA  
 Exp. 12/31/2021  
 CIVIL  
 No. 025817

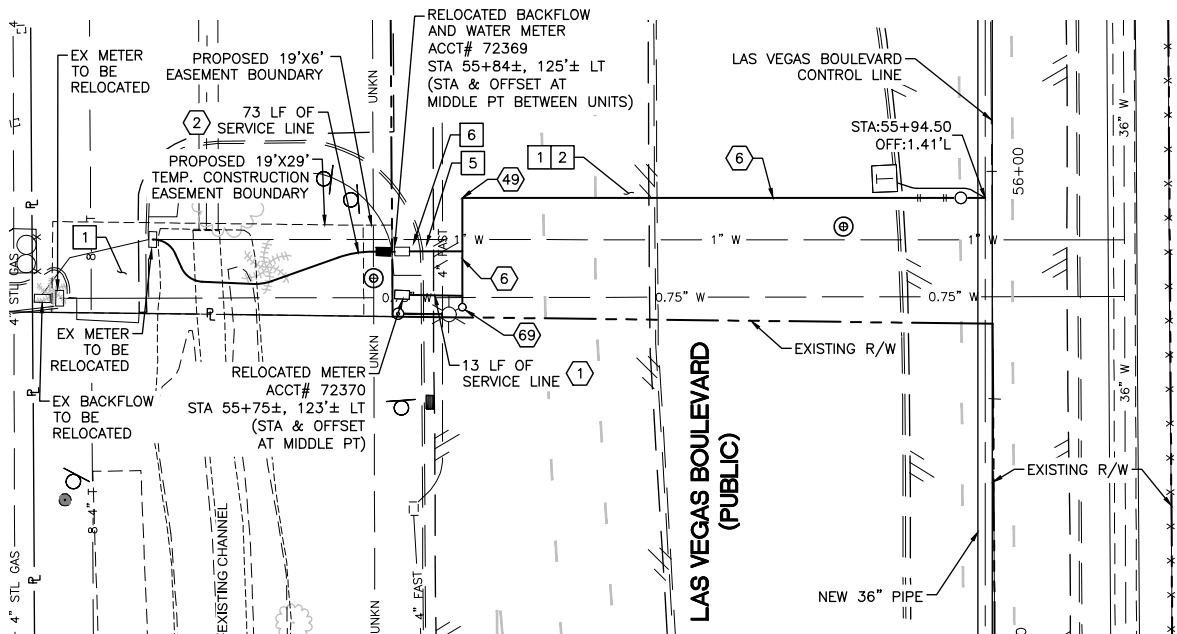
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DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

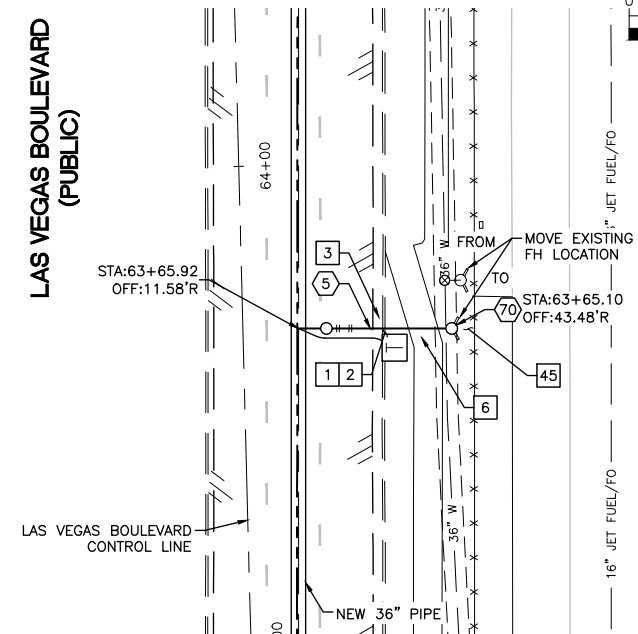
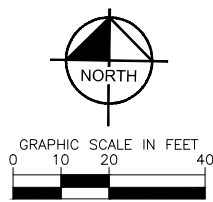
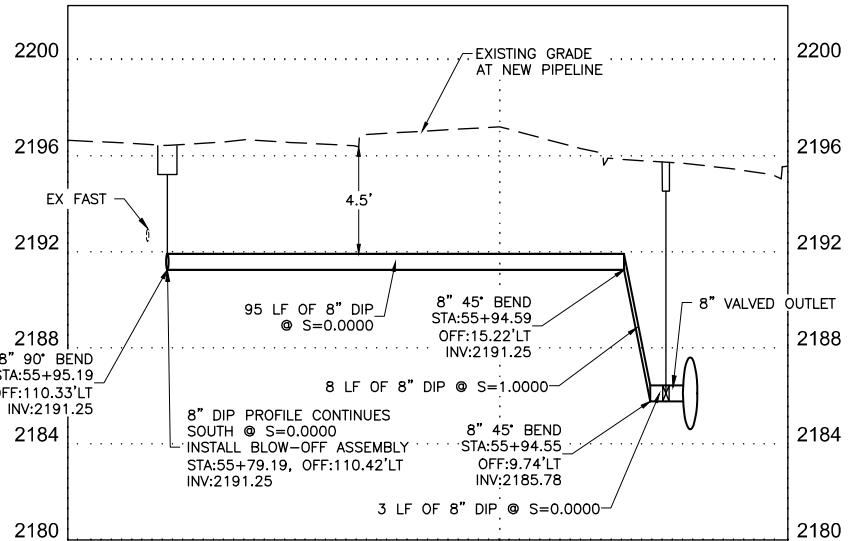
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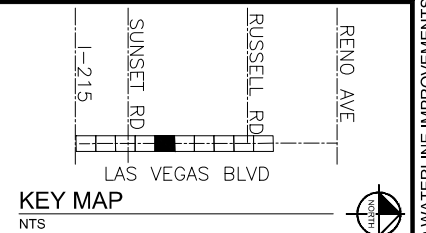
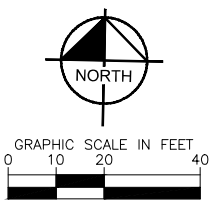
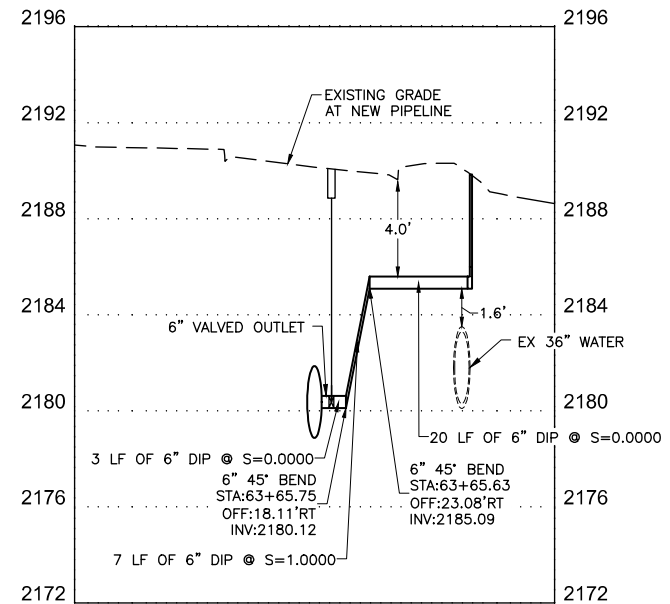
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**8" WATER LATERAL RECONNECTION**  
**STA: 55+94.50**  
**SEE DWG NO. W-5**



**6" WATER LATERAL RECONNECTION**  
**STA: 63+65.92**  
**SEE DWG NO. W-5**



- CONSTRUCTION INDEX**
- ① INSTALL 3/4" SERVICE LINE PER UDACS PLATE NO. 4 ON DWG WD-13
  - ② INSTALL 1" SERVICE LINE PER UDACS PLATE NO. 4 ON DWG WD-13
  - ⑤ INSTALL 6" DIP, RESTRAIN ALL JOINTS
  - ⑥ INSTALL 8" DIP, RESTRAIN ALL JOINTS
  - ④⑨ INSTALL 8" X 90° BEND, RESTRAIN ALL JOINTS
  - ⑥⑨ INSTALL BLOW-OFF ASSEMBLY PER UDACS PLATE 36 ON DWG WD-16
  - ⑦⑩ INSTALL NEW FIRE HYDRANT PER UDACS PLATE NO. 40 ON DWG WD-16 & WD-17

- CONSTRUCTION NOTES**
- ① ALL TRENCH PER DETAILS ON DWG WD-1
  - ② SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - ③ REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - ⑤ REMOVE AND REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219
  - ⑥ REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - ④⑤ SEE DOA NOTE 6 ON DWG WG-4 FOR SETBACK DISTANCE BETWEEN APPURTENANCE AND DOA FENCE.

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**CCWRD APPROVAL**

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CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 LATERAL RECONNECTION PLAN AND PROFILE STA 55+94 & STA 63+65  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

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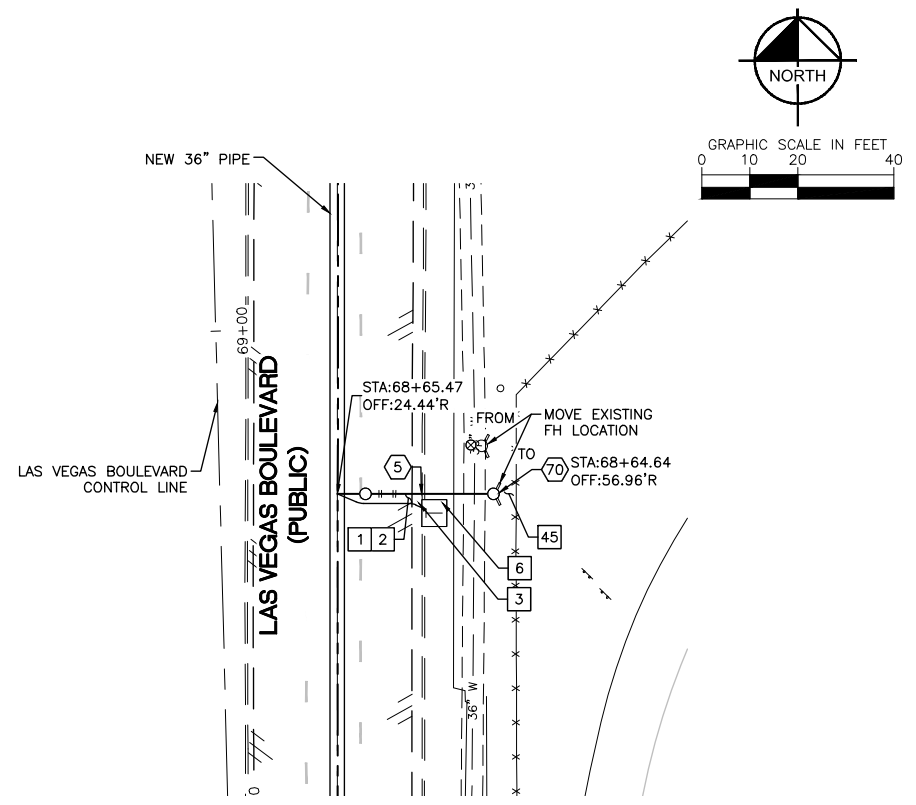
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SCALE  
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 FIELD BOOK

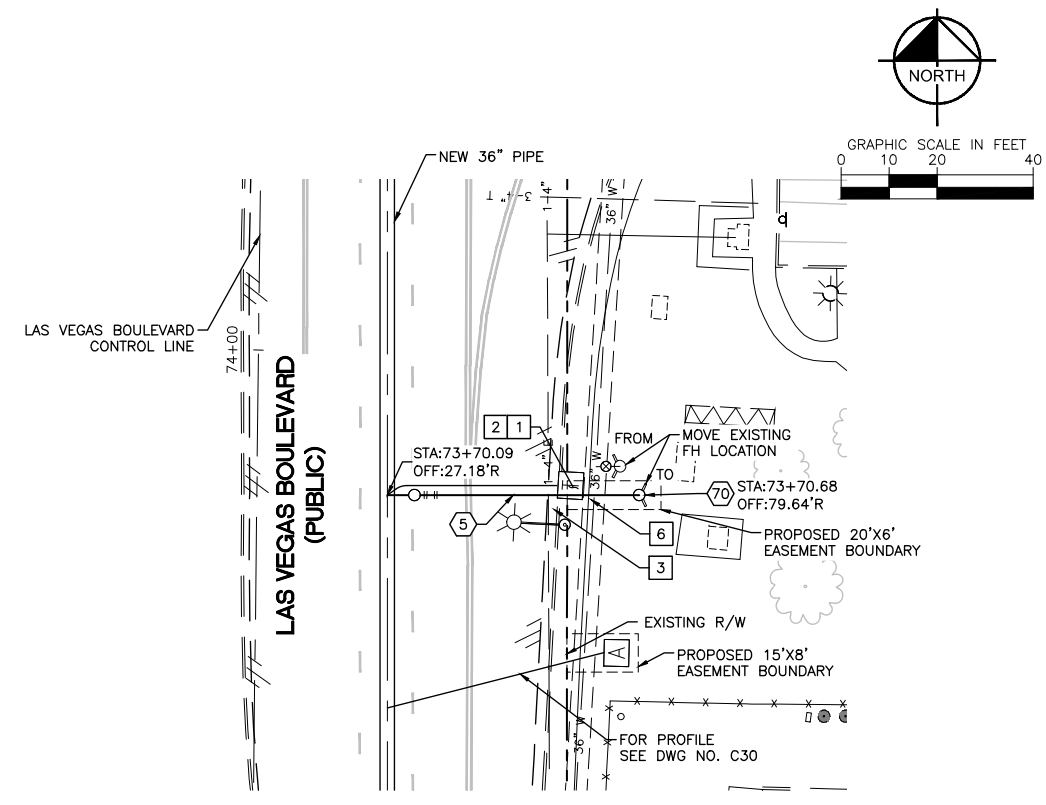
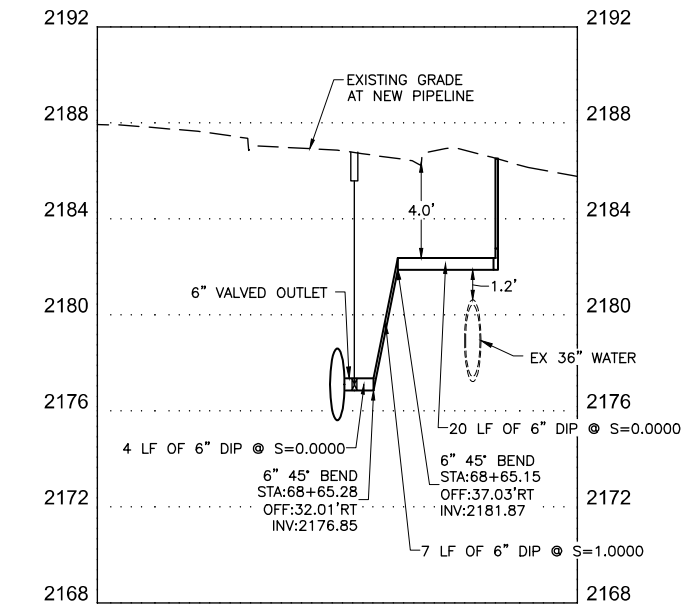
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 SHT. 21 OF 61  
 L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

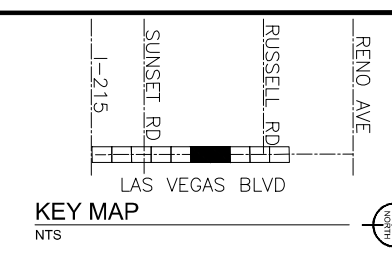
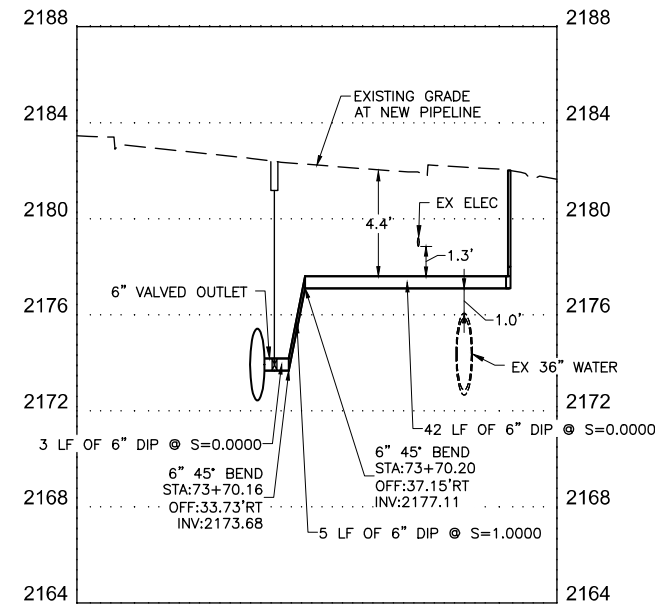
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**6" WATER LATERAL RECONNECTION**  
**STA: 68+65.47**  
**SEE DWG NO. W-6**



**6" WATER LATERAL RECONNECTION**  
**STA: 73+70.09**  
**SEE DWG NO. W-7**



- CONSTRUCTION INDEX**
- ⑤ INSTALL 6" DIP, RESTRAIN ALL JOINTS
  - ⑦⑩ INSTALL NEW FIRE HYDRANT PER UDACS PLATE NO. 40 ON DWG WD-16 & WD-17

- CONSTRUCTION NOTES**
- ① ALL TRENCH PER DETAILS ON DWG WD-1
  - ② SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - ③ REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - ⑥ REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - ④⑤ SEE DOA NOTE 6 ON DWG WG-4 FOR SETBACK DISTANCE BETWEEN APPURTENANCE AND DOA FENCE.

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020  
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CCWRD APPROVAL

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 CLARK COUNTY WATER RECLAMATION DISTRICT DATE  
 CCWRD PIPES NUMBER IS #20.1089  
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION  
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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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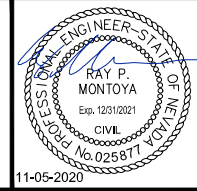
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**LATERAL RECONNECTION PLAN AND PROFILE STA 68+65 & STA 73+70**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



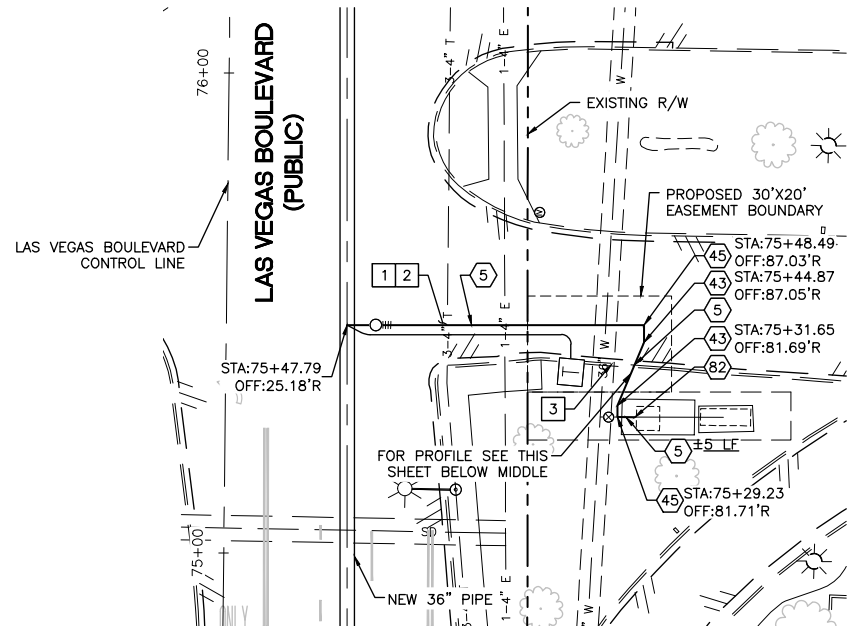
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SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-17
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FIELD BOOK	L-2272

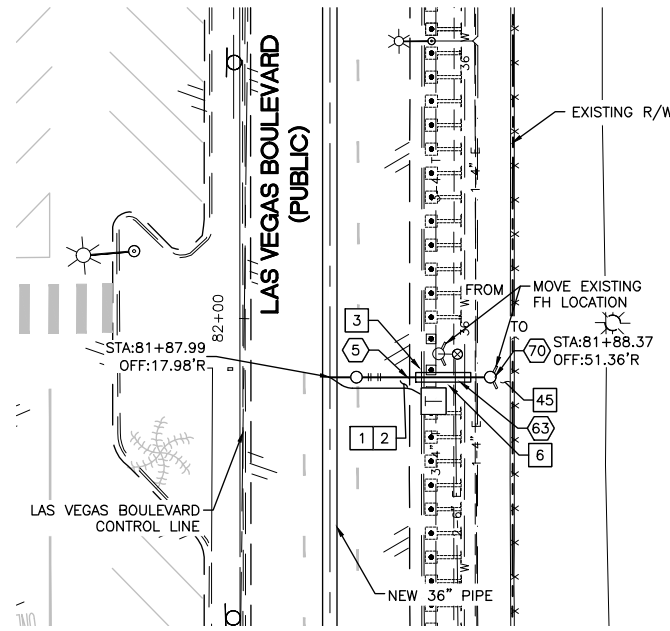
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



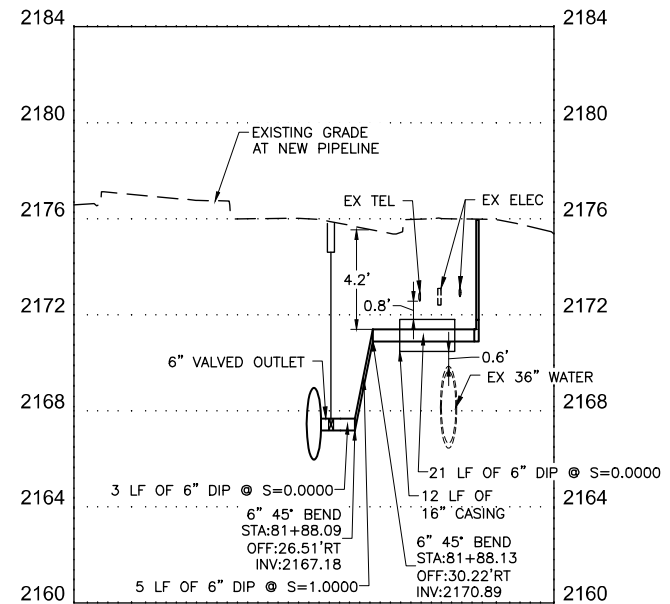
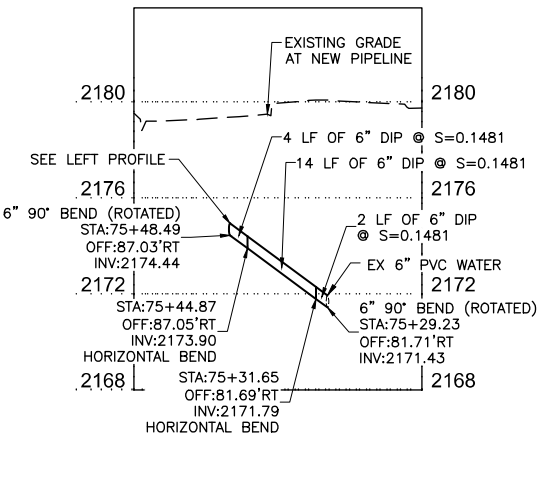
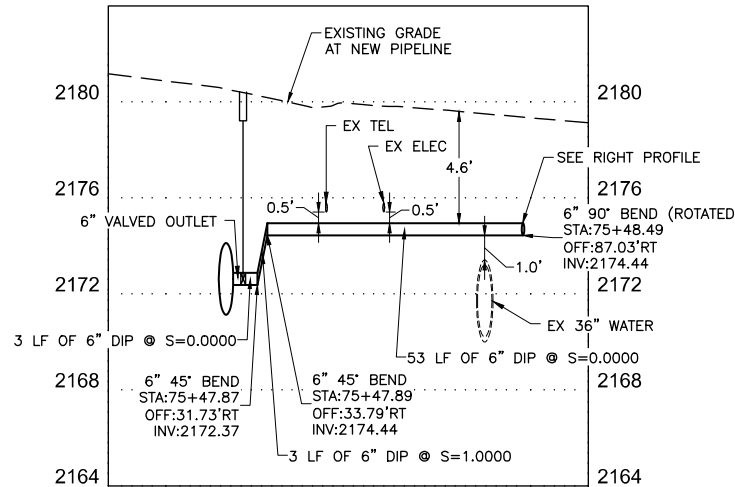
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**6" WATER LATERAL RECONNECTION**  
**STA: 75+47.79**  
 SEE DWG NO. W-7



**6" WATER LATERAL RECONNECTION**  
**STA: 81+87.99**  
 SEE DWG NO. W-7



- CONSTRUCTION INDEX**
- 5 INSTALL 6" DIP, RESTRAIN ALL JOINTS
  - 43 INSTALL 6" X 22.5" BEND, RESTRAIN ALL JOINTS
  - 45 INSTALL 6" X 90" BEND, RESTRAIN ALL JOINTS
  - 63 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
  - 70 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NO. 40 ON DWG WD-16 & WD-17
  - 82 CONNECT TO EXISTING 6" PIPE

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 45 SEE DOA NOTE 6 ON DWG WG-4 FOR SETBACK DISTANCE BETWEEN APPURTENANCE AND DOA FENCE.

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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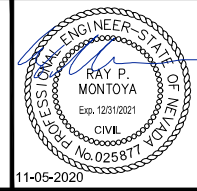
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

LATERAL RECONNECTION PLAN AND PROFILE STA 75+47 & STA 81+87

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



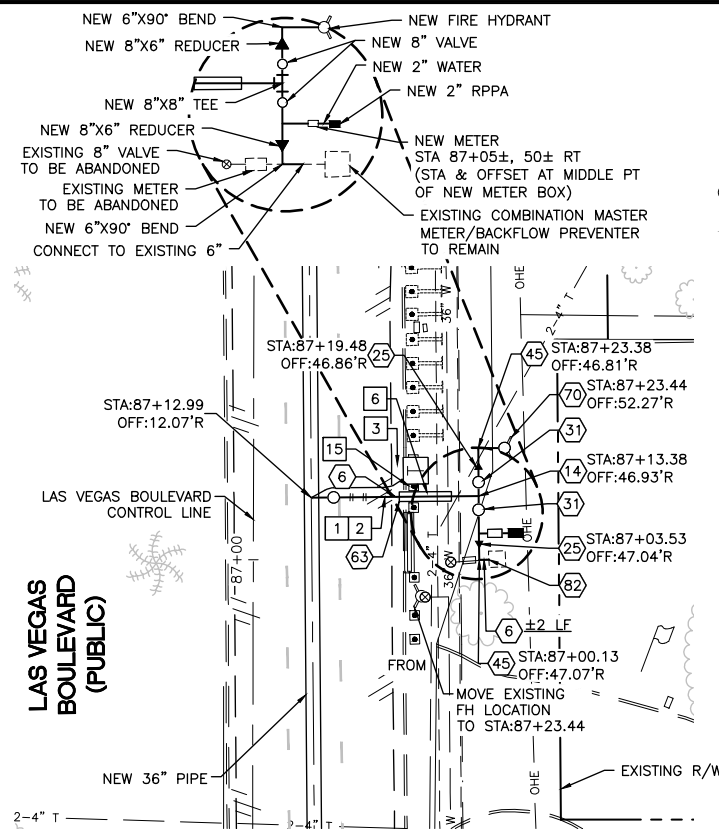
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

**Kimley Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

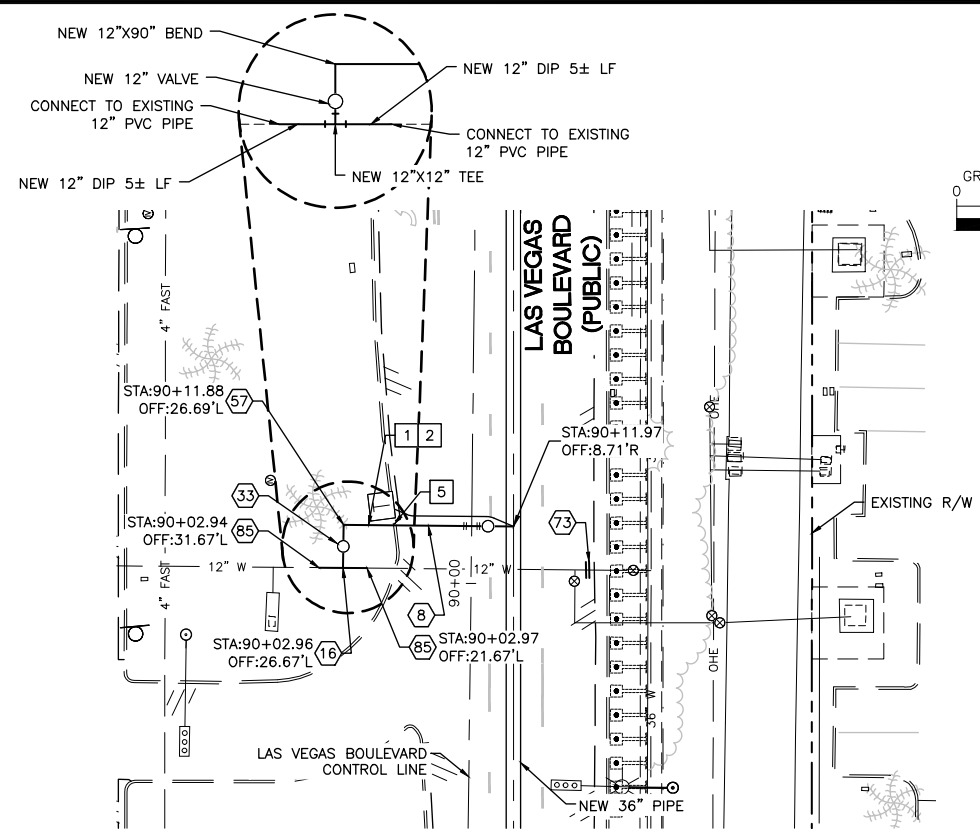
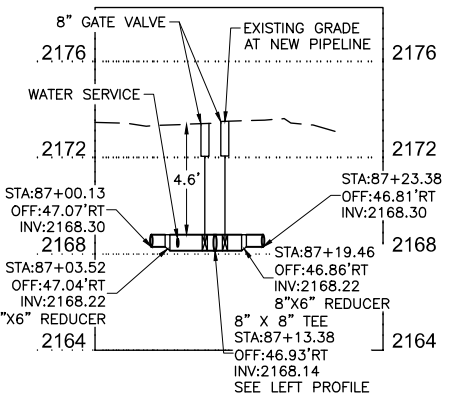
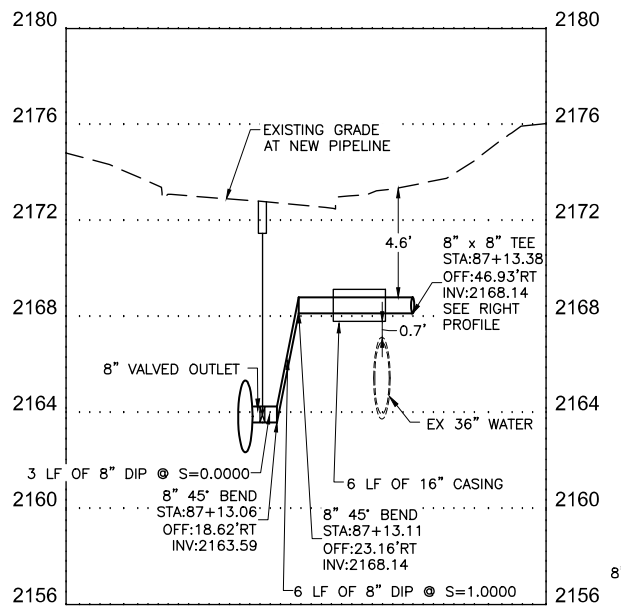
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HORIZ: 1" = 20'	W-18
VERT: 1" = 4'	SHT. 23 OF 61
FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

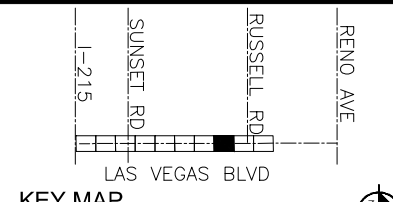
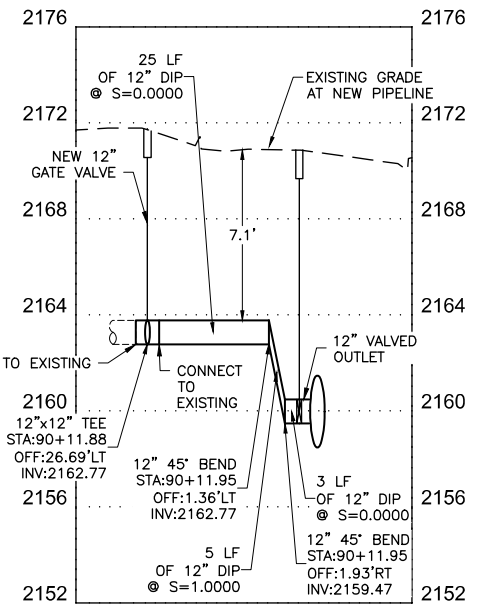
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**8" WATER LATERAL RECONNECTION**  
**STA: 87+12.99**  
**SEE DWG NO. W-8**



**12" WATER LATERAL RECONNECTION**  
**STA: 90+11.97**  
**SEE DWG NO. W-8**



**CONSTRUCTION INDEX**

- 6 INSTALL 8" DIP, RESTRAIN ALL JOINTS
- 8 INSTALL 12" DIP, RESTRAIN ALL JOINTS
- 14 INSTALL 8" X 8" FLG TEE
- 16 INSTALL 12" X 12" FLG TEE
- 25 INSTALL 8" X 6" DI REDUCER, RESTRAIN ALL JOINTS
- 31 INSTALL 8" GATE VALVE, VALVE BOX INSTALLATION WITH VALVE STEM EXTENSION PER DETAIL 4 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
- 33 INSTALL 12" GATE VALVE, VALVE BOX INSTALLATION WITH VALVE STEM EXTENSION PER DETAIL 4 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
- 45 INSTALL 6" X 90° BEND, RESTRAIN ALL JOINTS
- 57 INSTALL 12" X 90° BEND, RESTRAIN ALL JOINTS
- 63 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
- 70 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NO. 40 ON DWG WD-16 & WD-17
- 73 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
- 82 CONNECT TO EXISTING 6" PIPE
- 85 CONNECT TO EXISTING 12" PIPE

**CONSTRUCTION NOTES**

- 1 ALL TRENCH PER DETAILS ON DWG WD-1
- 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
- 5 REMOVE AND REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219
- 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
- 15 EXISTING TEMPORARY BOLLARDS TO BE REMOVED FOR CONSTRUCTION OF WATERLINE, TO BE REPLACED WITH PERMANENT BOLLARDS. SEE ROADWAY IMPROVEMENT PLANS, L-2272

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1082

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DSHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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NO.	REVISIONS	DATE

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 LATERAL RECONNECTION PLAN AND PROFILE STA 87+12 & STA 90+11  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

11-05-2020

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

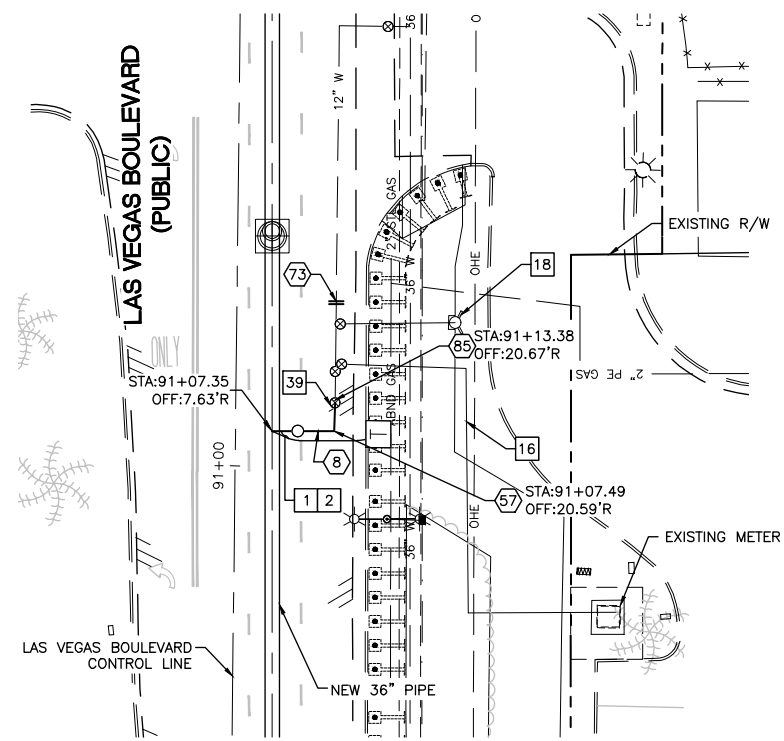
**Kimley»Horn**

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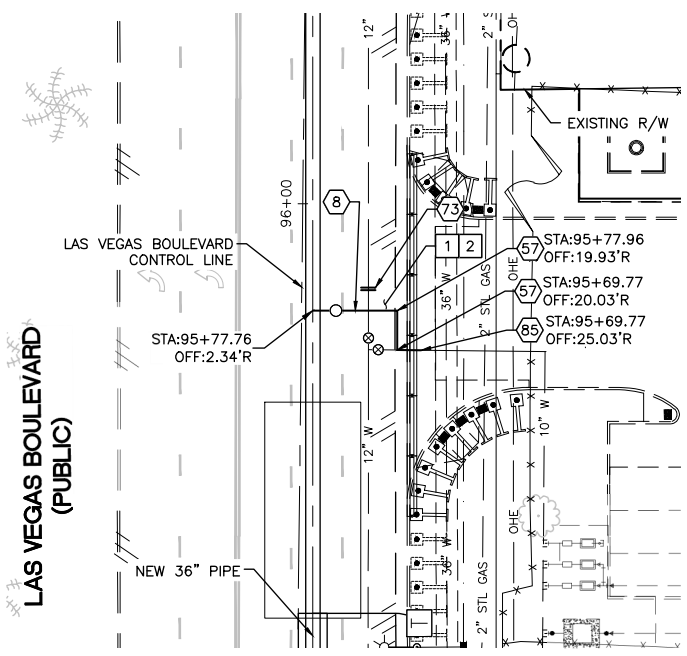
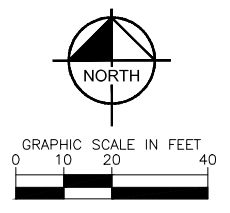
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VERT: 1" = 4'	
FIELD BOOK	SHT. 24 OF 61
	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

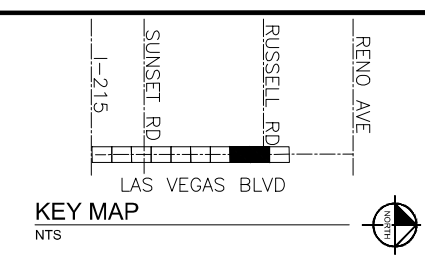
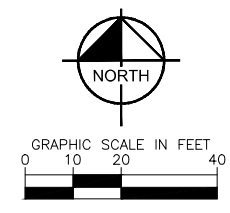
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 Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd\CADD\WB Phase B Water Plans\26-28-C19-C21\_L1.dwg  
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**12" WATER MAIN CONNECTION**  
**STA: 91+07.35**  
**SEE DWG NO. W-8**

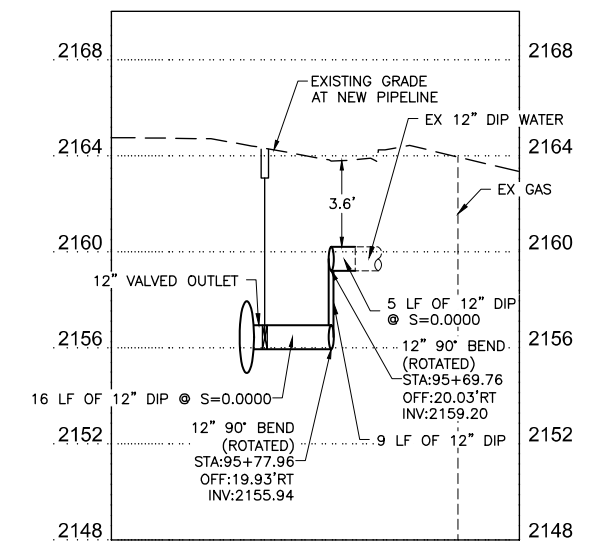
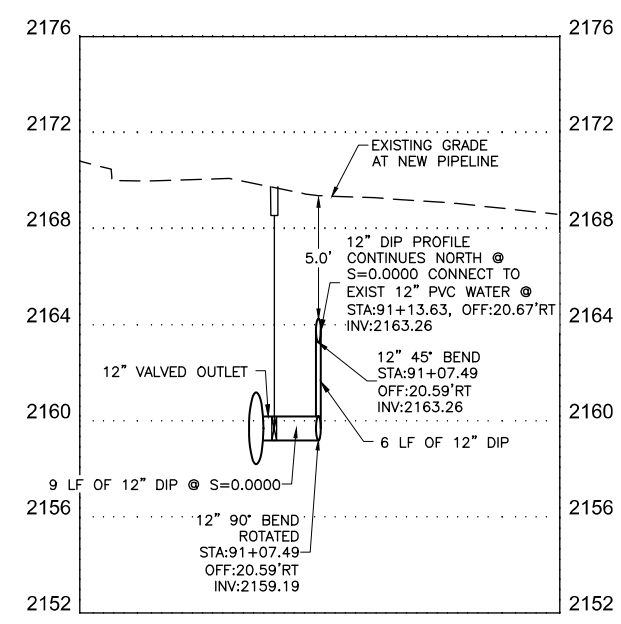


**12" WATER LATERAL RECONNECTION**  
**STA: 95+77.76**  
**SEE DWG NO. W-9**



- CONSTRUCTION INDEX**
- 8 INSTALL 12" DIP, RESTRAIN ALL JOINTS
  - 57 INSTALL 12" X 90° BEND, RESTRAIN ALL JOINTS
  - 73 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
  - 85 CONNECT TO EXISTING 12" PIPE

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 16 EXISTING 12" WATERLINE TO REMAIN IN SERVICE
  - 18 EXISTING FIRE HYDRANT TO REMAIN IN SERVICE PER NOTE 6 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WD-3
  - 39 REMOVE EXISTING BLOW-OFF ASSEMBLY



**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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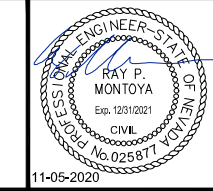
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

LATERAL RECONNECTION PLAN AND PROFILE STA 91+07 & STA 95+77

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

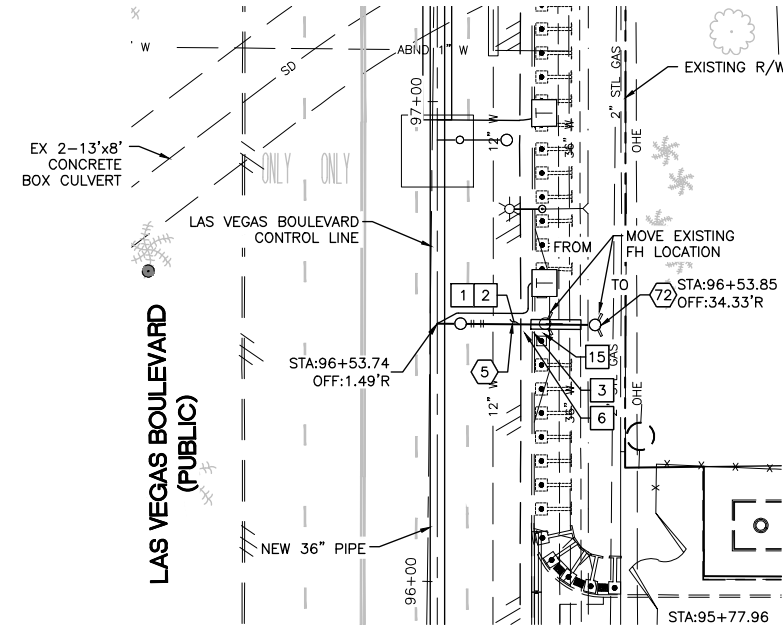
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SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-20
VERT: 1" = 4'	SHT. 25 OF 61
FIELD BOOK	L-2272

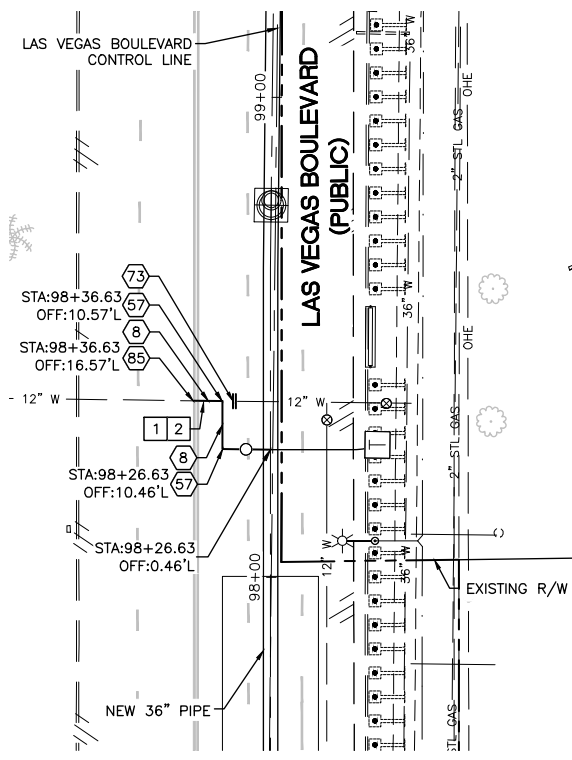
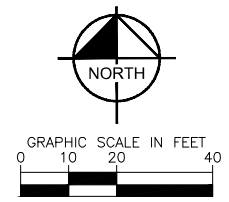
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



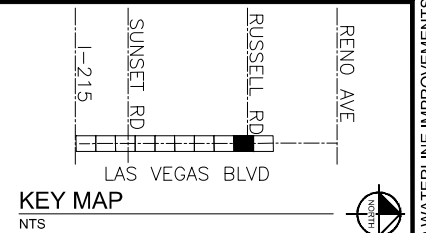
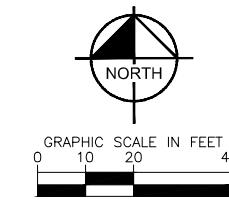
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**6" WATER LATERAL RECONNECTION**  
**STA: 96+53.74**  
**SEE DWG NO. W-9**



**12" WATER LATERAL RECONNECTION**  
**STA: 98+26.63**  
**SEE SHEET W-9**



- CONSTRUCTION INDEX**
- 5 INSTALL 6" DIP, RESTRAIN ALL JOINTS
  - 8 INSTALL 12" DIP, RESTRAIN ALL JOINTS
  - 57 INSTALL 12" X 90° BEND, RESTRAIN ALL JOINTS
  - 72 RELOCATE AND INSTALL NEW FIRE HYDRANT PER UDACS PLATE NO. 41 ON DWG WD-17
  - 73 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
  - 85 CONNECT TO EXISTING 12" PIPE

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 15 EXISTING TEMPORARY BOLLARDS TO BE REMOVED FOR CONSTRUCTION OF WATERLINE, TO BE REPLACED WITH PERMANENT BOLLARDS. SEE ROADWAY IMPROVEMENT PLANS, L-2272

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

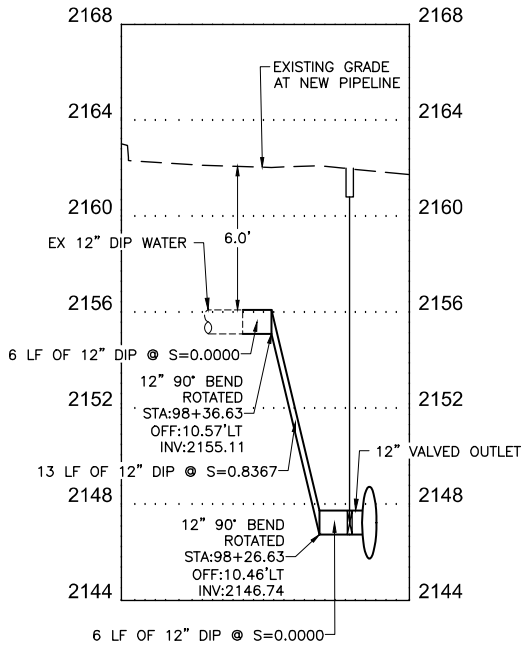
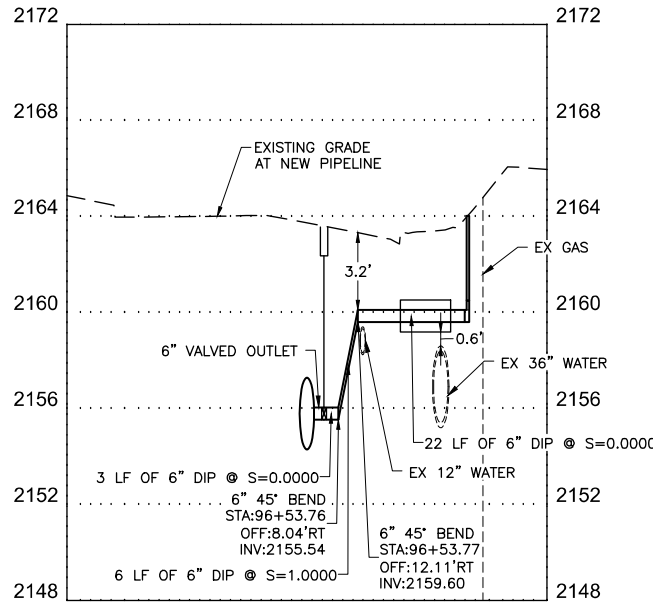
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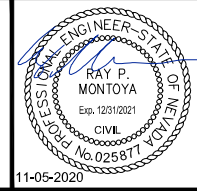
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**LATERAL RECONNECTION PLAN AND PROFILE STA 96+53 & STA 98+26**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: \_\_\_\_\_

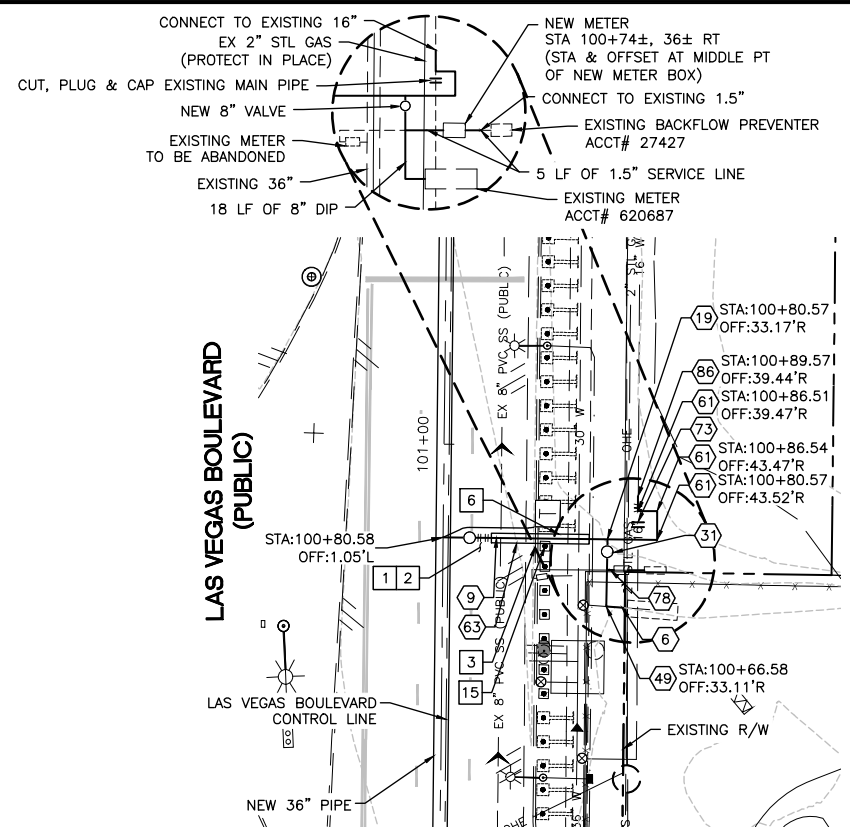
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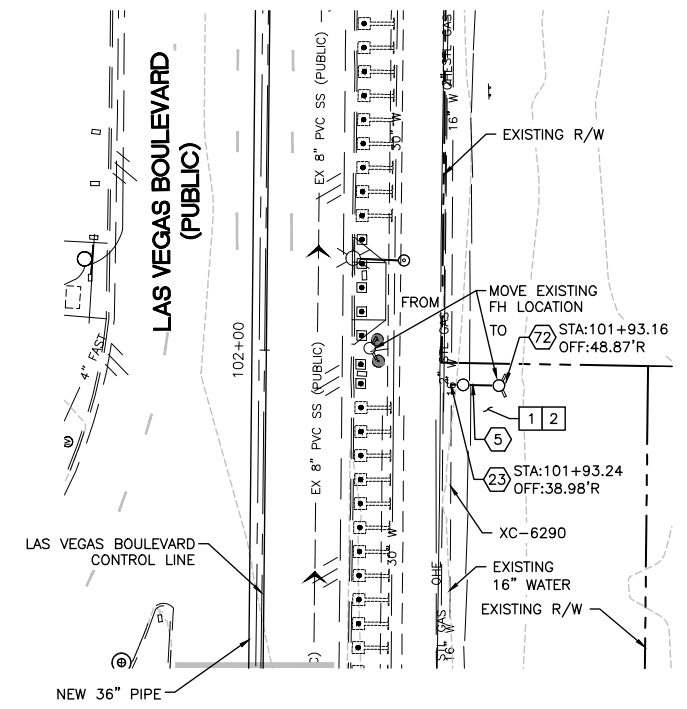
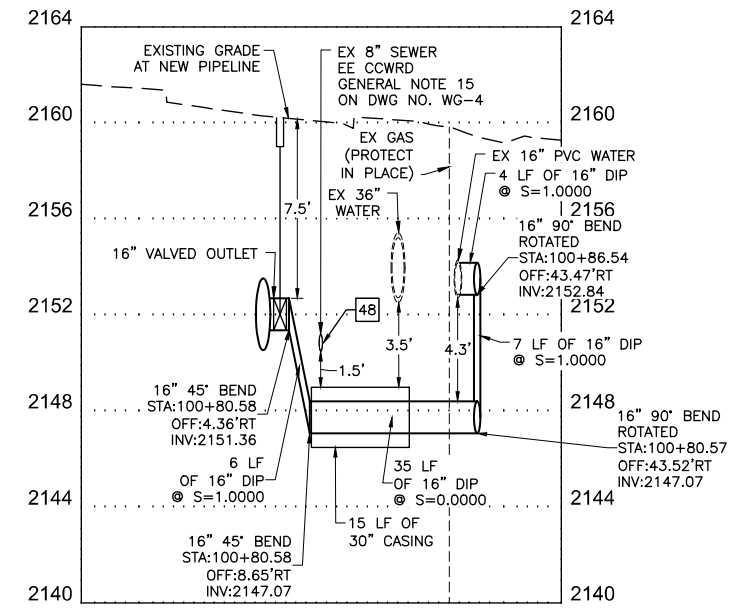
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HORIZ: 1" = 20'	<b>W-21</b>
VERT: 1" = 4'	
FIELD BOOK	SHT. 26 OF 61
	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

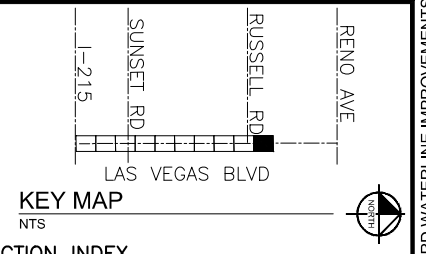
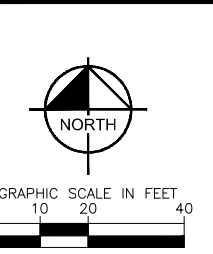
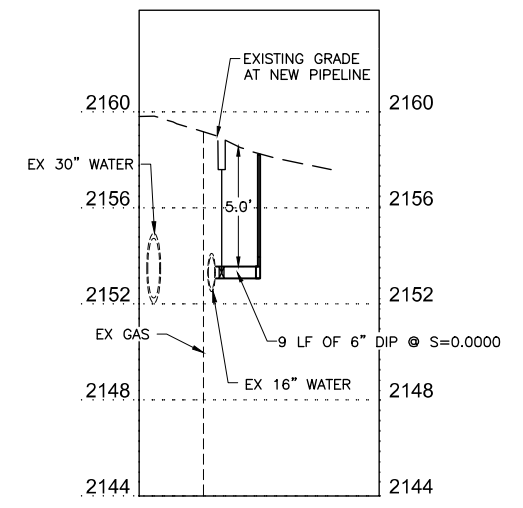
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**16" WATER LATERAL RECONNECTION**  
 STA: 100+80.58  
 SEE DWG NO. W-10



**6" FIRE HYDRANT RECONNECTION**  
 STA: 101+93.16  
 SEE DWG NO. W-10



- CONSTRUCTION INDEX**
- 5 INSTALL 6" DIP, RESTRAIN ALL JOINTS
  - 6 INSTALL 8" DIP, RESTRAIN ALL JOINTS
  - 9 INSTALL 16" DIP, RESTRAIN ALL JOINTS
  - 19 INSTALL 16" X 8" FLG TEE
  - 23 INSTALL 16" X 6" TAPPING SLEEVE & VALVE PER UDACS PLATE NOS. 34 & 35 ON DWG WD-15 & WD-16
  - 31 INSTALL 8" GATE VALVE, VALVE BOX INSTALLATION WITH VALVE STEM EXTENSION PER DETAIL 4 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
  - 49 INSTALL 8" X 90° BEND, RESTRAIN ALL JOINTS
  - 61 INSTALL 16" X 90° BEND, RESTRAIN ALL JOINTS
  - 63 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
  - 72 RELOCATE AND INSTALL NEW FIRE HYDRANT PER UDACS PLATE NO. 41 ON DWG WD-17
  - 73 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
  - 78 CONNECT TO EXISTING 1-1/2" SERVICE PIPE
  - 86 CONNECT TO EXISTING 16" PIPE

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 15 EXISTING TEMPORARY BOLLARDS TO BE REMOVED FOR CONSTRUCTION OF WATERLINE, TO BE REPLACED WITH PERMANENT BOLLARDS. SEE ROADWAY IMPROVEMENT PLANS, L-2272
  - 48 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS SD-18

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

LATERAL RECONNECTION PLAN AND PROFILE STA 100+80 & STA 101+93

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

**Professional Engineer - State of Nevada**

RAY P. MONTOYA  
 Exp. 12/31/2021  
 CIVIL  
 No. 025817

11-05-2020

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
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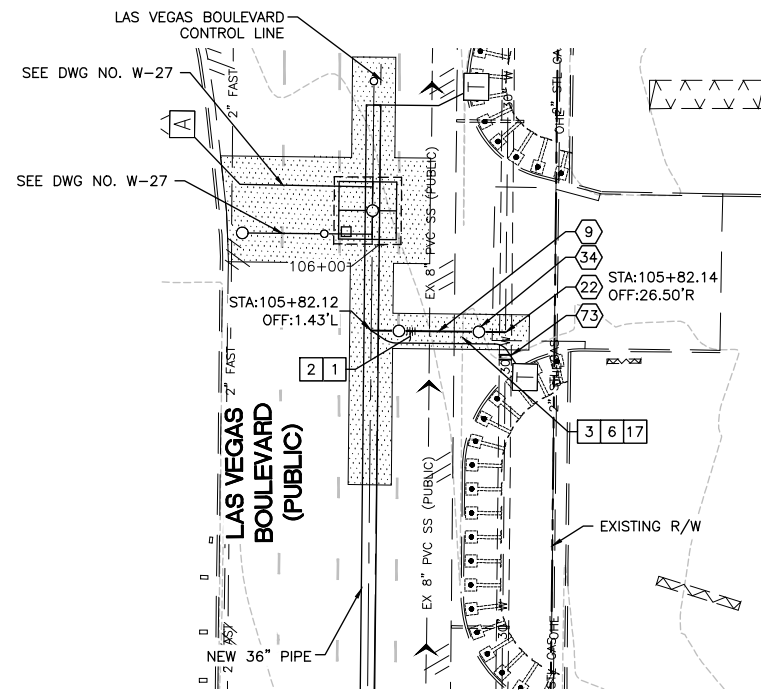
FIELD BOOK

DRAWING NO. **W-22**

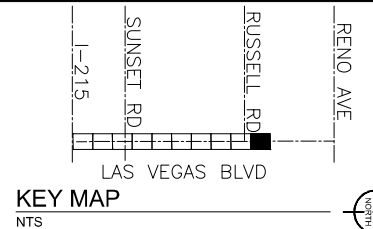
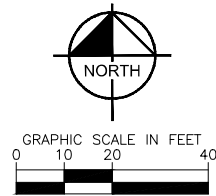
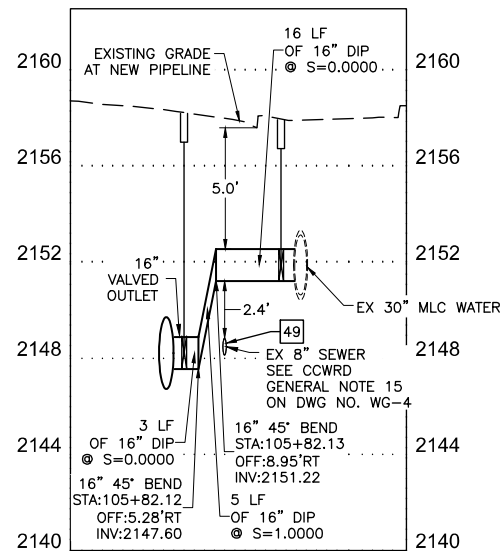
SHT. 27 OF 61

L-2272

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**16" WATER LATERAL RECONNECTION**  
 STA: 105+82.12  
 SEE DWG NO. W-10



- CONSTRUCTION INDEX**
- 9 INSTALL 16" DIP, RESTRAIN ALL JOINTS
  - 22 INSTALL 30" X 16" TAPPING SLEEVE & VALVE PER UDACS PLATE NOS. 34 & 35 ON DWG WD-15 & WD-16
  - 34 INSTALL 16" GATE VALVE, VALVE BOX INSTALLATION WITH VALVE STEM EXTENSION PER DETAIL 4 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
  - 73 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 17 REMOVE AND REPLACE COMMERCIAL AND INDUSTRIAL DRIVEWAY PER CCAUSD DWG. NO. 244
  - 49 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS SD-19

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN 12/23/2020  
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS #20.1089  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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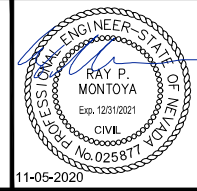
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

LATERAL RECONNECTION PLAN AND PROFILE STA 105+82

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

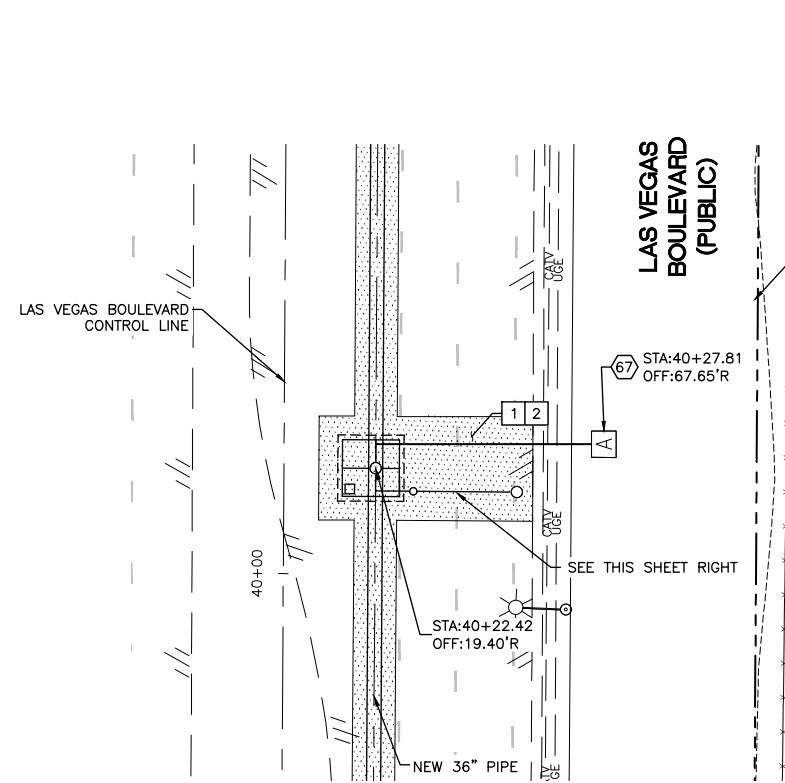
**Kimley Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE		DRAWING NO.
HORIZ:	1" = 20'	
VERT:	1" = 4'	
FIELD BOOK		SHT. 28 OF 61
		L-2272

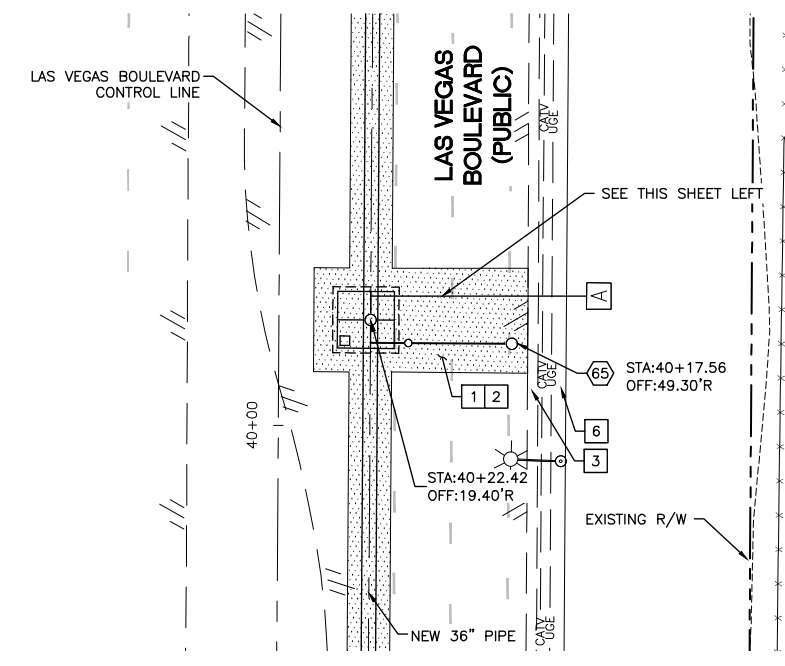
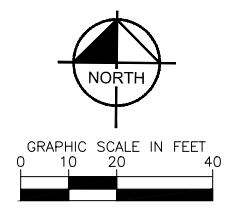
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



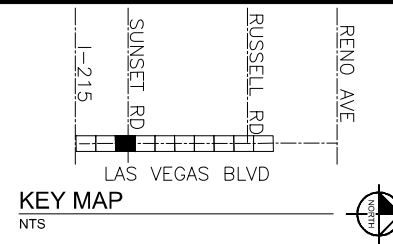
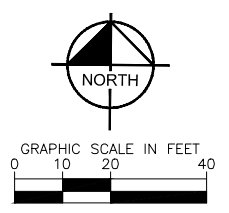
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**36" VALVE VAULT  
 AIR VALVE ASSEMBLY**  
 STA: 40+22.42  
 SEE DWG NO. W-3

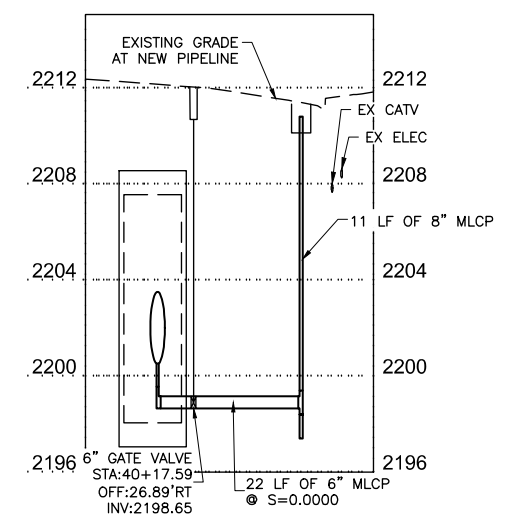
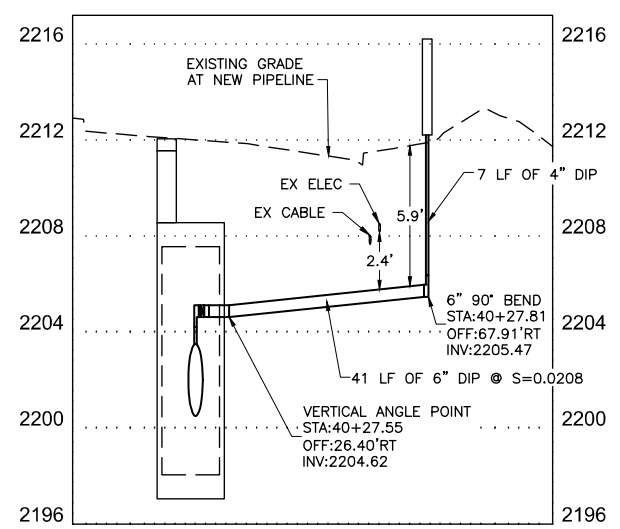


**36" VALVE VAULT  
 BLOW-OFF ASSEMBLY**  
 STA: 40+22.42  
 SEE DWG NO. W-3



- CONSTRUCTION INDEX**
- 65 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-4
  - 67 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234



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 PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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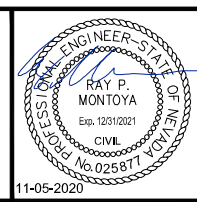
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NO.	REVISIONS	DATE

**CLARK COUNTY NEVADA**  
**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**36" VALVE VAULT PLAN AND PROFILE STA 40+22**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



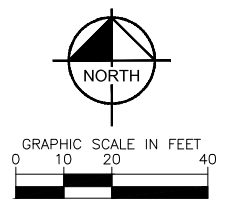
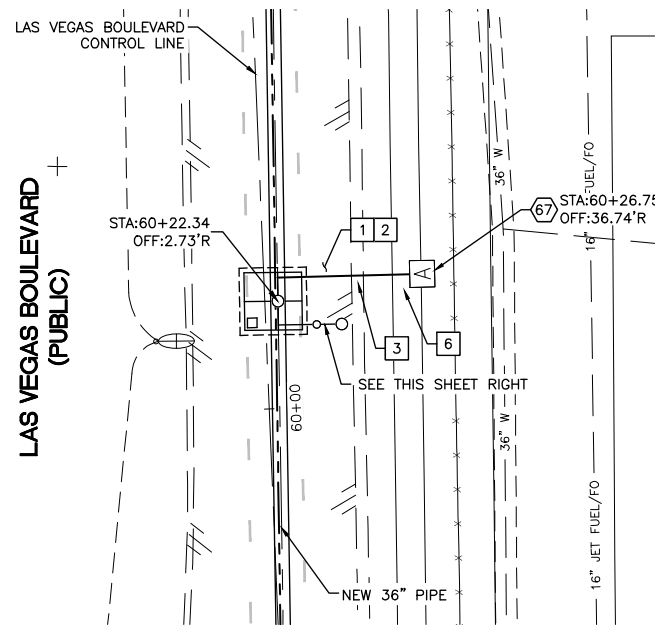
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
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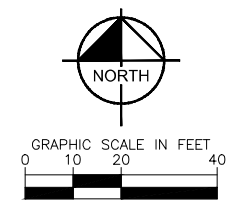
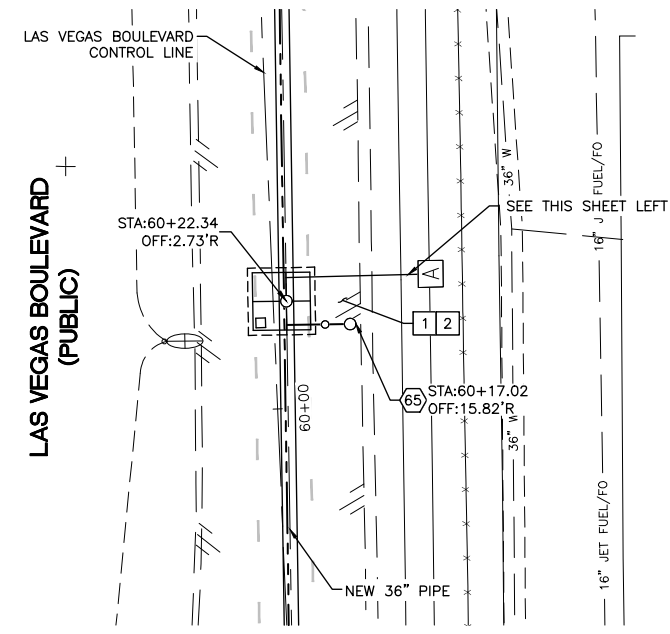
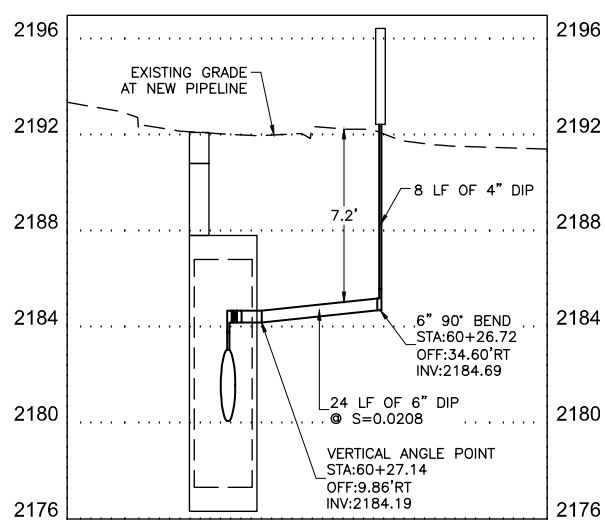
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HORIZ: 1" = 20'	W-24
VERT: 1" = 4'	SHT. 29 OF 61
FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

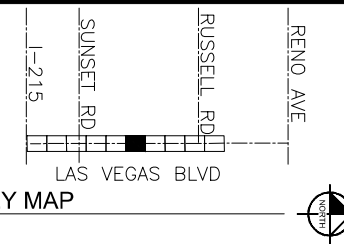
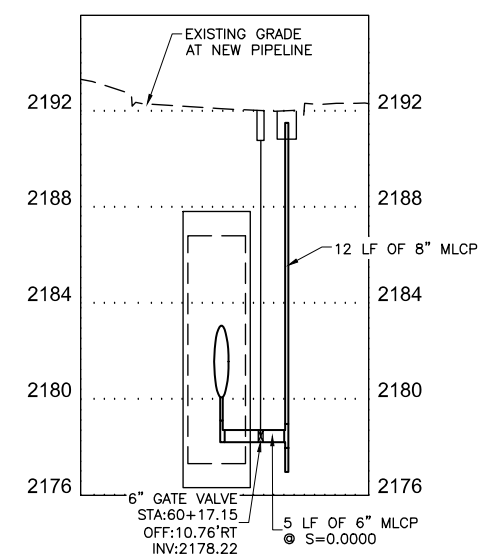
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**36" VALVE VAULT  
 AIR VALVE ASSEMBLY  
 STA: 60+22.34  
 SEE DWG NO. W-5**



**36" VALVE VAULT  
 BLOW-OFF ASSEMBLY  
 STA: 60+22.34  
 SEE DWG NO. W-5**



- CONSTRUCTION INDEX**
- 65 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-4
  - 67 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

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 PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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NO.	REVISIONS	DATE

LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)

36" VALVE VAULT PLAN AND PROFILE STA 60+22

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

11-05-2020

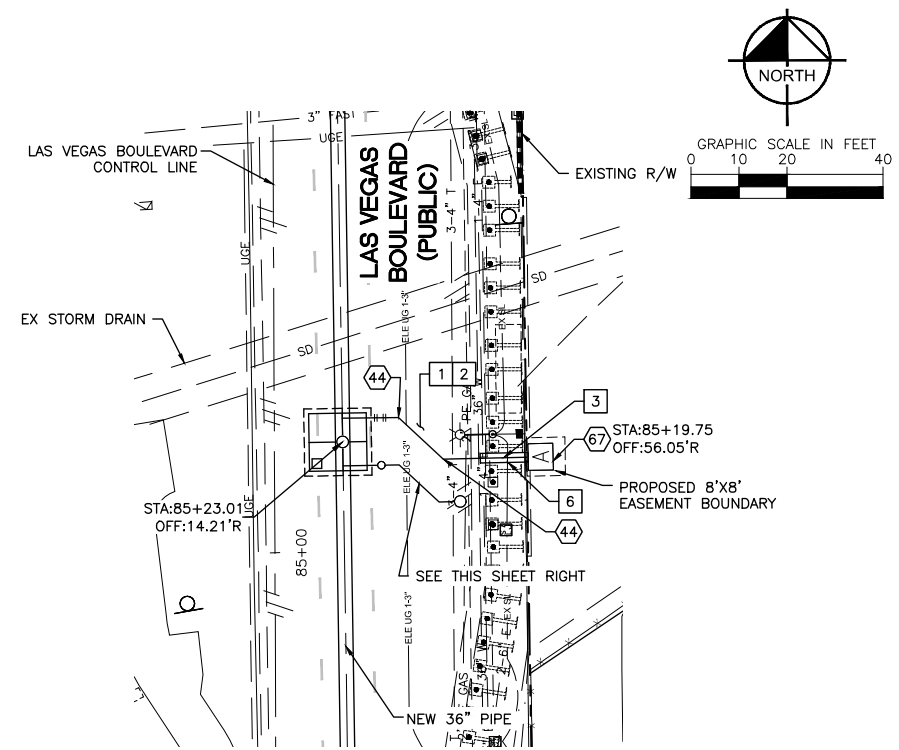
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
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SCALE  
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 FIELD BOOK

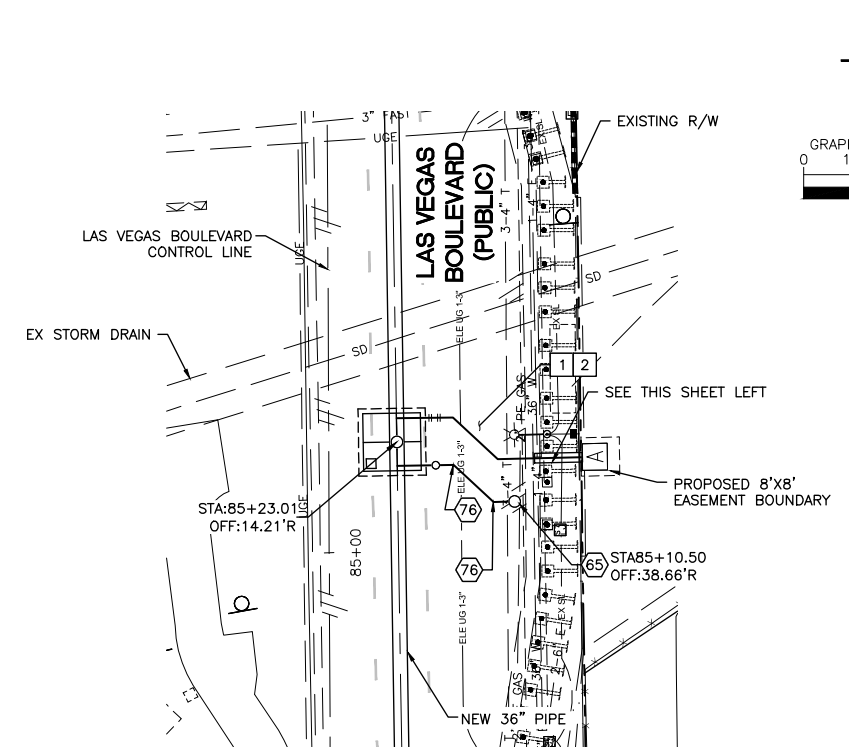
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 SHT. 30 OF 61  
 L-2272

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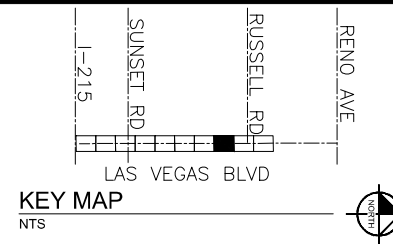
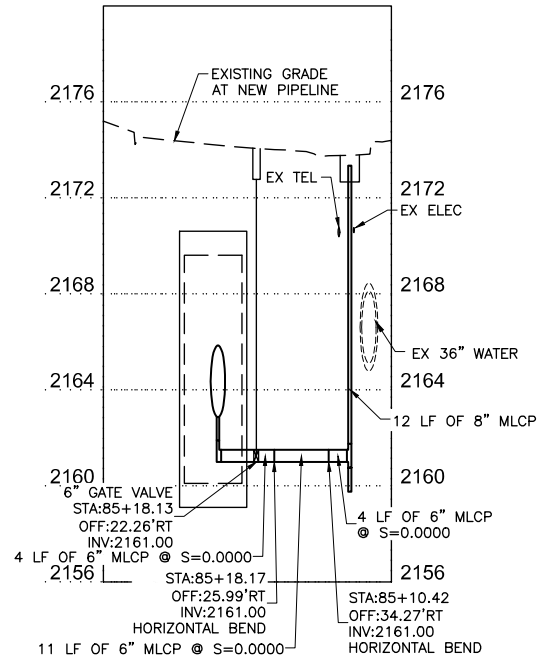
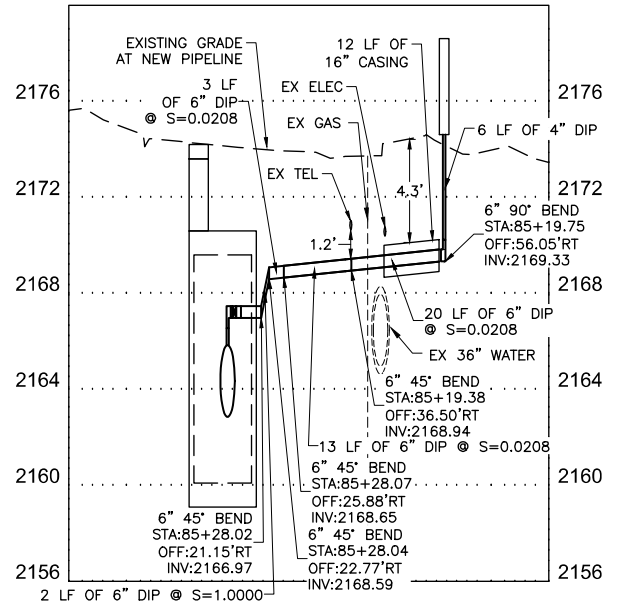
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**36" VALVE VAULT  
 AIR VALVE ASSEMBLY  
 STA: 85+23.01  
 SEE DWG NO. W-8**



**36" VALVE VAULT  
 BLOW-OFF ASSEMBLY  
 STA: 85+23.01  
 SEE DWG NO. W-8**



- CONSTRUCTION INDEX**
- ④④ INSTALL 6" X 45' BEND, RESTRAIN ALL JOINTS
  - ⑥⑤ INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-4
  - ⑥⑦ INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
  - ⑦⑥ INSTALL 6" MLCP PIPE HORIZONTAL ANGLE POINT

- CONSTRUCTION NOTES**
- ① ALL TRENCH PER DETAILS ON DWG WD-1
  - ② SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - ③ REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - ④ REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

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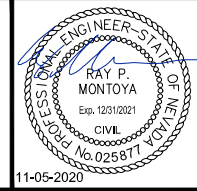
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**36" VALVE VAULT PLAN AND PROFILE STA 85+23**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



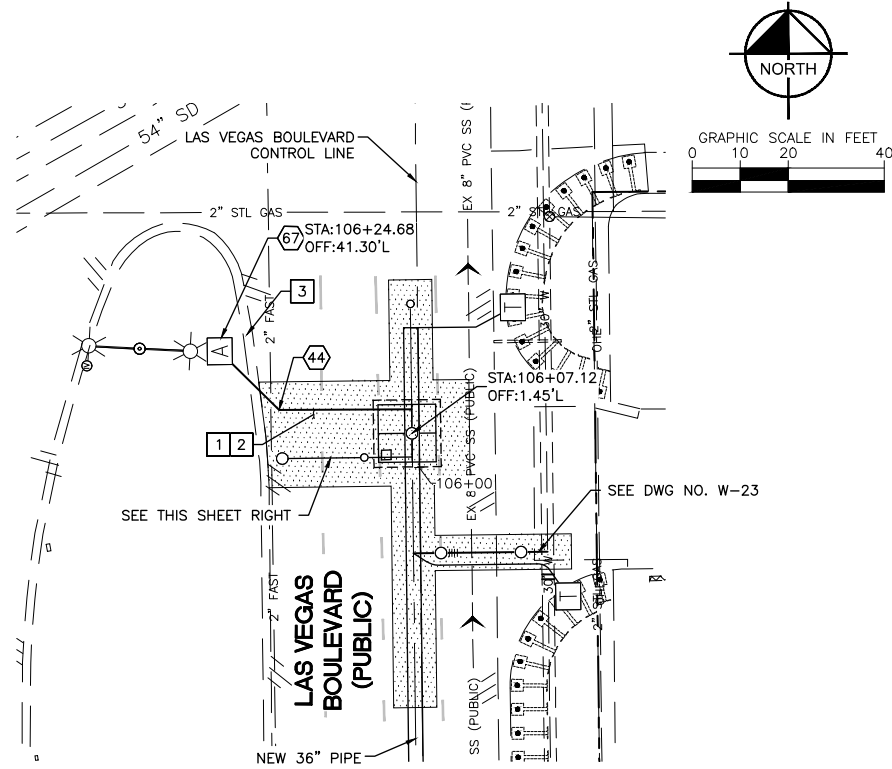
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SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-26
VERT: 1" = 4'	SHT. 31 OF 61
FIELD BOOK	L-2272

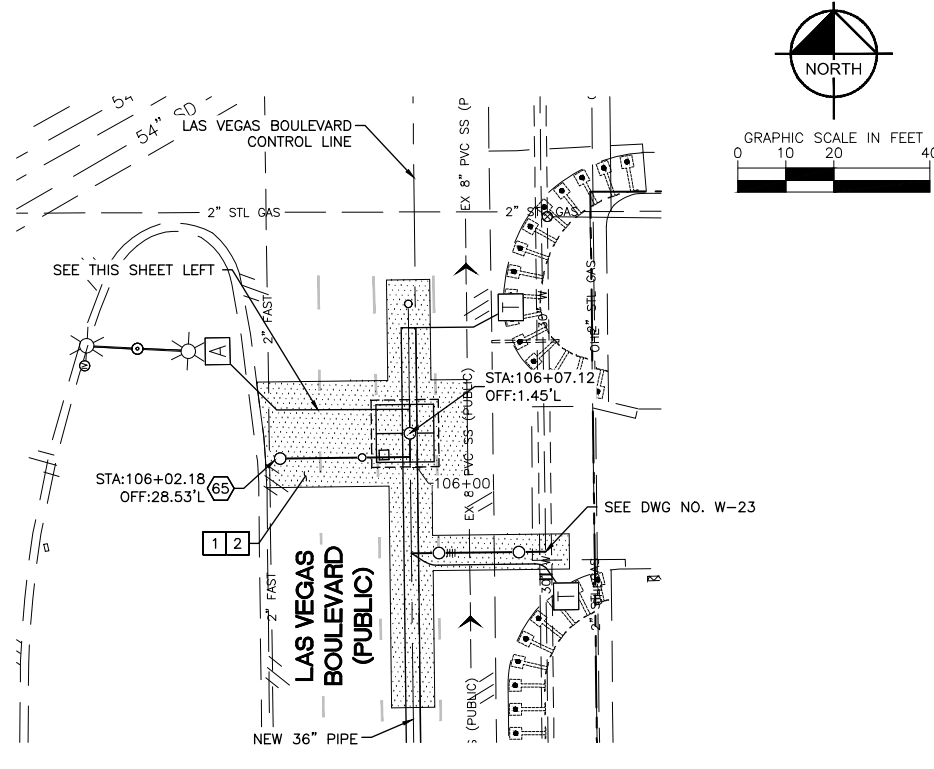
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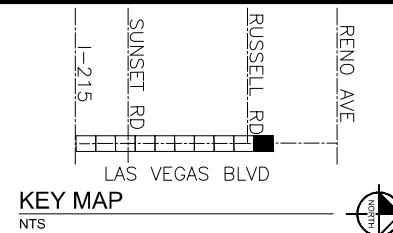
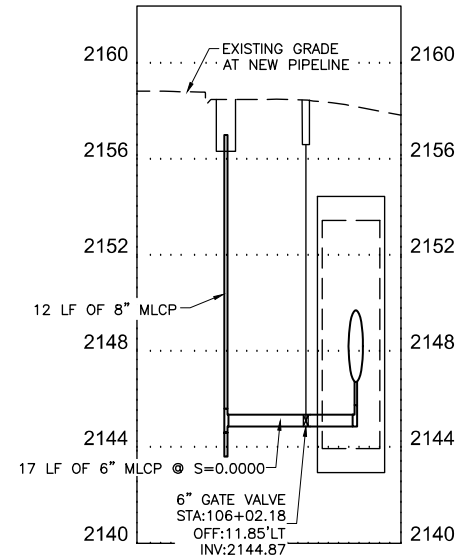
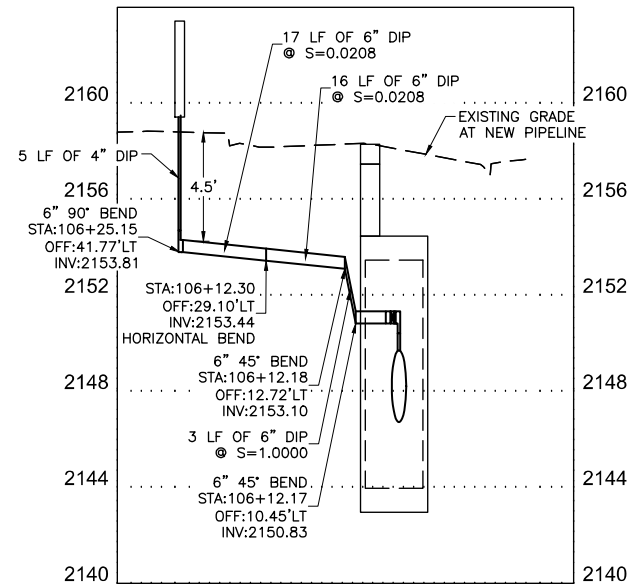
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**36" VALVE VAULT  
 AIR VALVE ASSEMBLY  
 STA: 106+07.12  
 SEE DWG NO. W-10**



**36" VALVE VAULT  
 BLOW-OFF ASSEMBLY  
 STA: 106+07.12  
 SEE DWG NO. W-10**



- CONSTRUCTION INDEX**
- (44) INSTALL 6" X 45' BEND, RESTRAIN ALL JOINTS
  - (65) INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-4
  - (67) INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9

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- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
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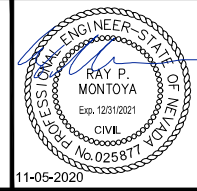
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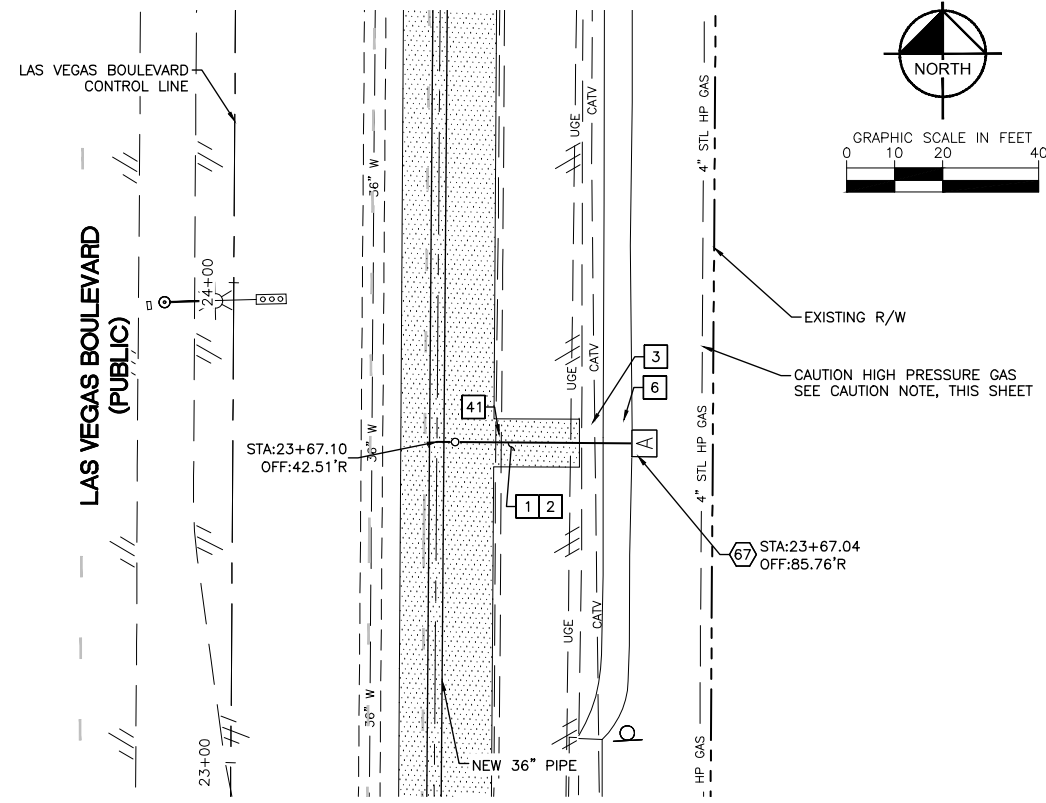


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 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

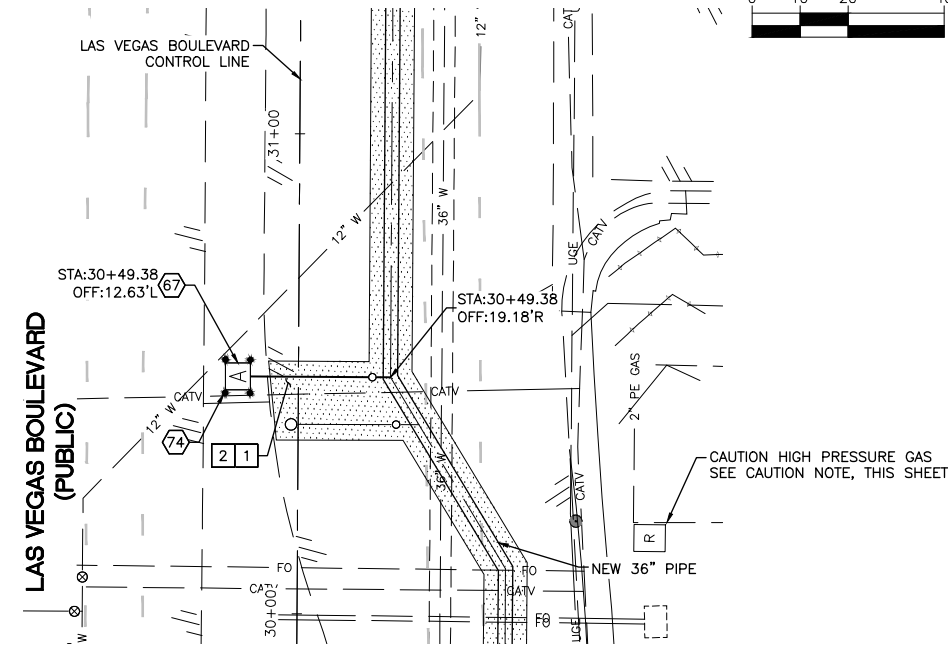
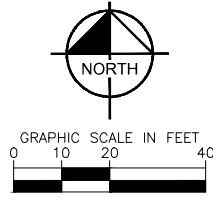
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 VERT: 1" = 4'  
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 DRAWING NO. **W-27**  
 SHT. 32 OF 61  
 L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

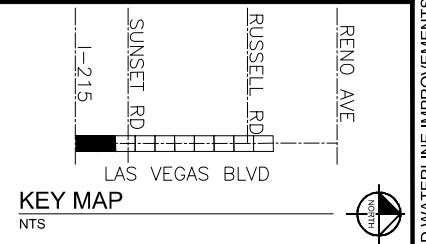
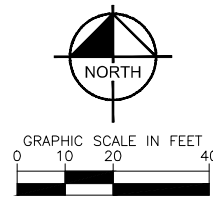
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**AIR VALVE ASSEMBLY**  
**STA: 23+67.10**  
**SEE DWG NO. W-1**



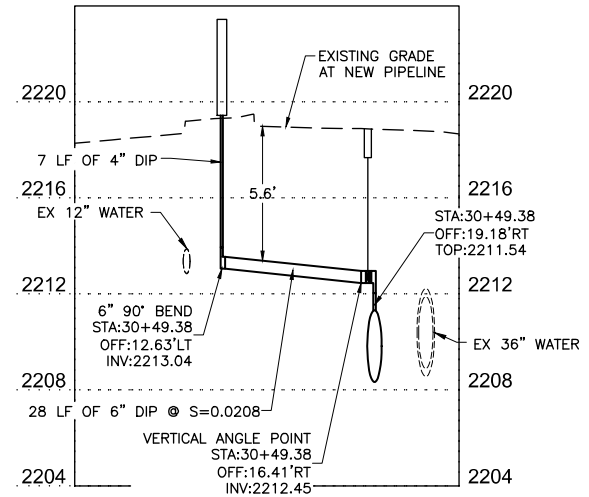
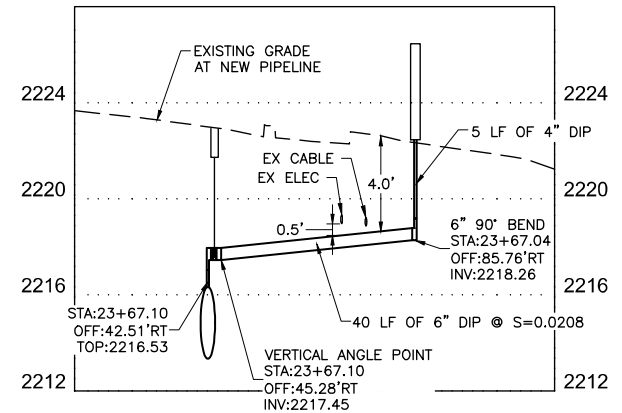
**AIR VALVE ASSEMBLY**  
**STA: 30+49.38**  
**SEE DWG NO. W-2**



- CONSTRUCTION INDEX**
- 67 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
  - 74 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 ON DWG WD-17

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 41 REMOVE AND REPLACE "TACK-ON ISLAND" CURB PER CCAUSD DWG. NO. 220.1.S1

CAUTION: HIGH PRESSURE GAS!!!  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION



**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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**UnderGround**  
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 1-702-432-5300

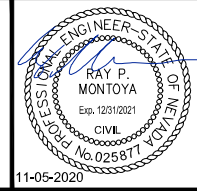
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**AIR RELEASE PLAN AND PROFILE STA 23+67 & STA 30+49**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



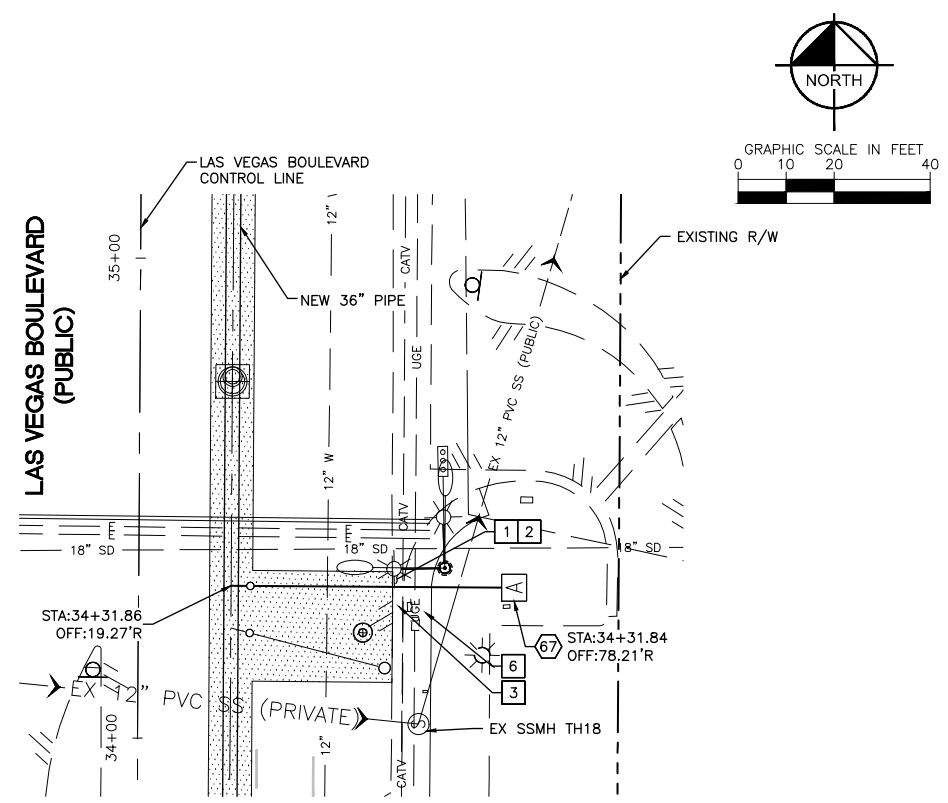
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
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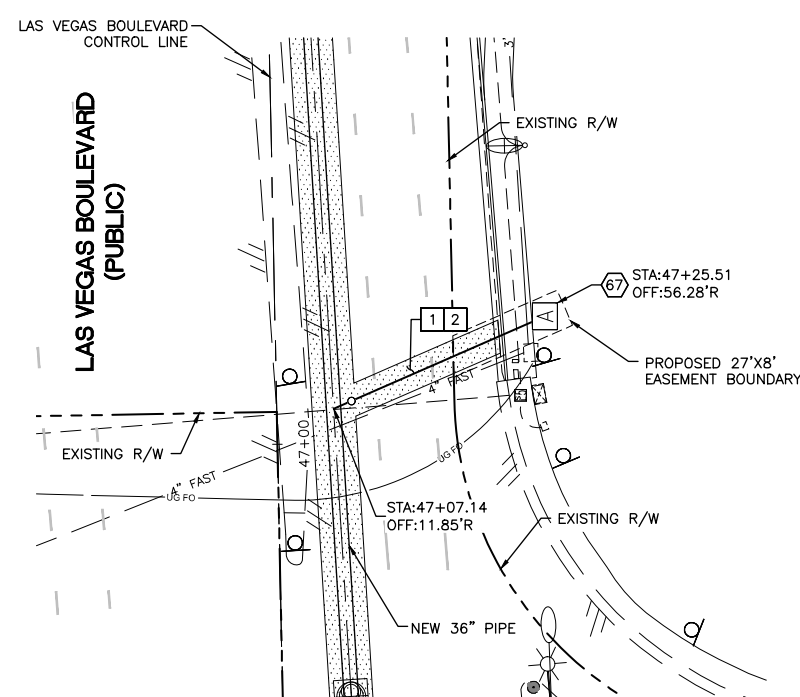
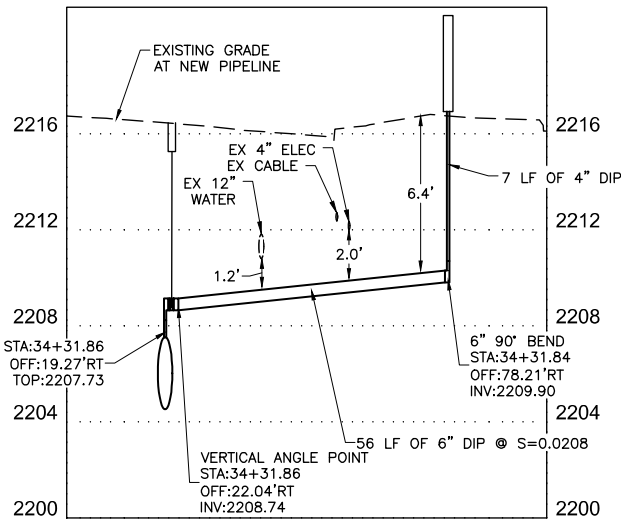
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HORIZ: 1" = 20'	W-28
VERT: 1" = 4'	SHT. 33 OF 61
FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

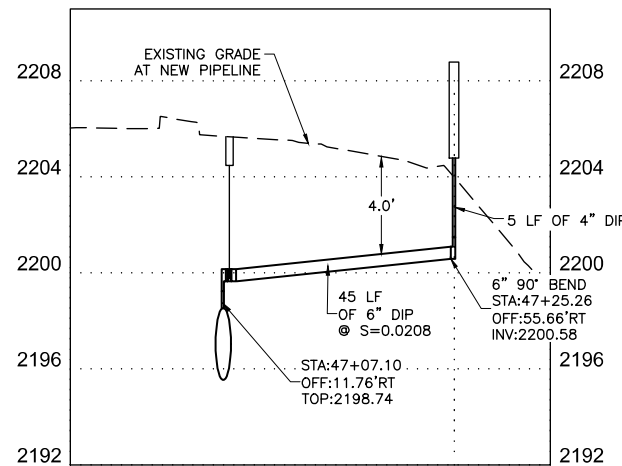
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**AIR VALVE ASSEMBLY**  
**STA: 34+31.86**  
**SEE DWG NO. W-2**



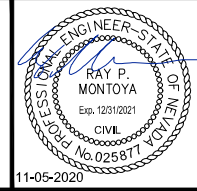
**AIR VALVE ASSEMBLY**  
**STA: 47+07.14**  
**SEE DWG NO. W-4**



NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
**AIR RELEASE PLAN AND PROFILE STA 34+31 & STA 47+07**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_  
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SCALE  
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 VERT: 1" = 4'  
 FIELD BOOK  
 DRAWING NO.  
**W-29**  
 SHT. 34 OF 61  
 L-2272

- CONSTRUCTION INDEX**
- 67 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
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  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

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LVVWD APPROVAL

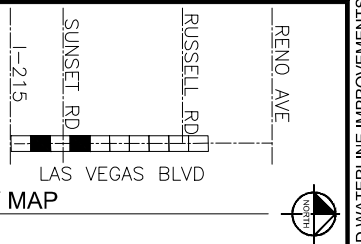
APPROVED FOR CONSTRUCTION  
 PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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**UNION PACIFIC RAILROAD**  
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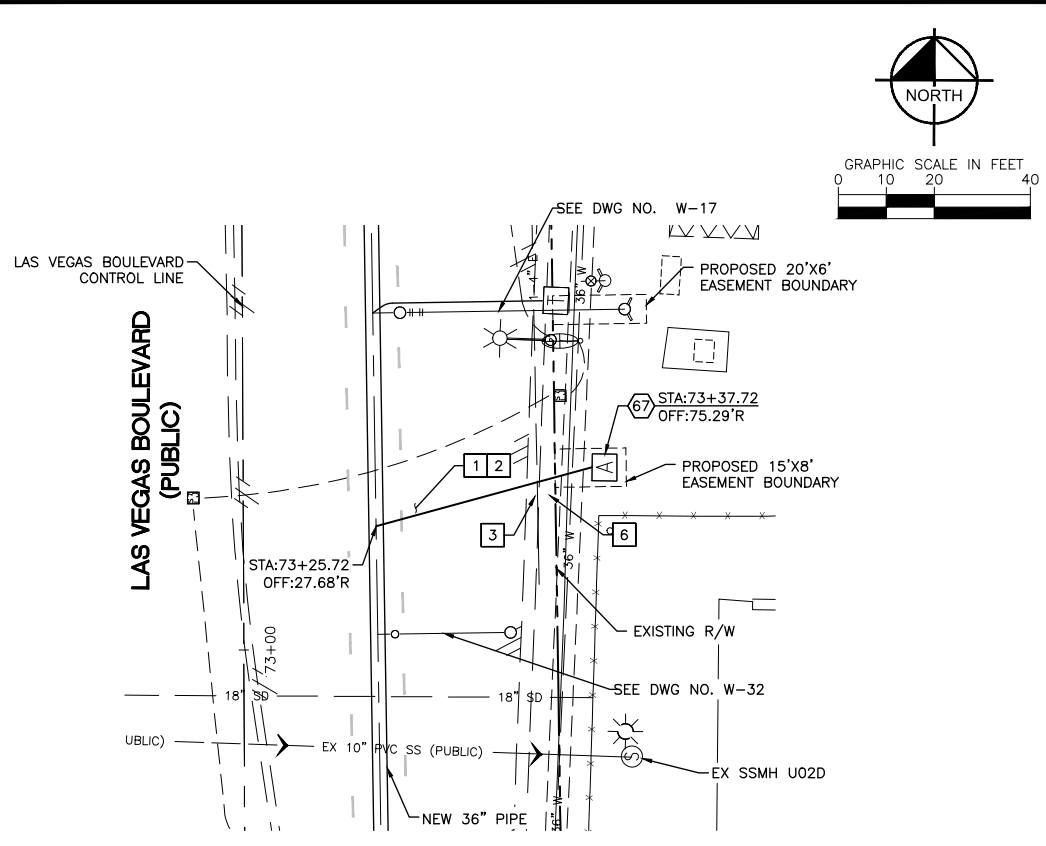
**UnderGround**  
 1-702-432-5300  
RESIST AND WEAR YOUR SEATBELT



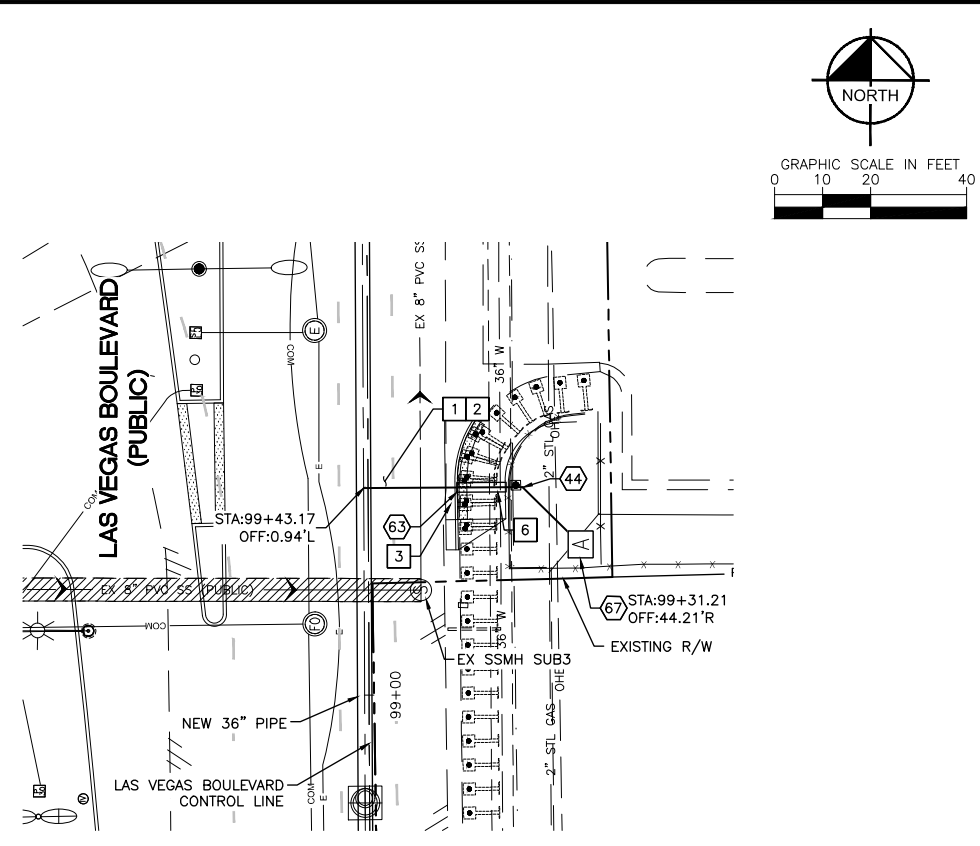
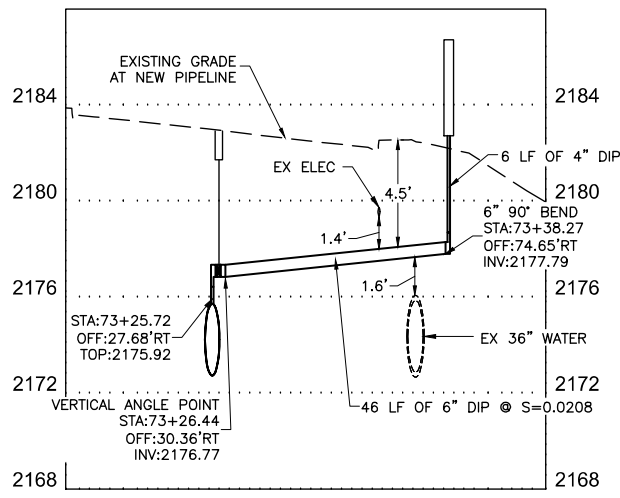
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



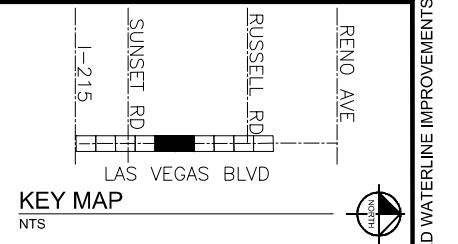
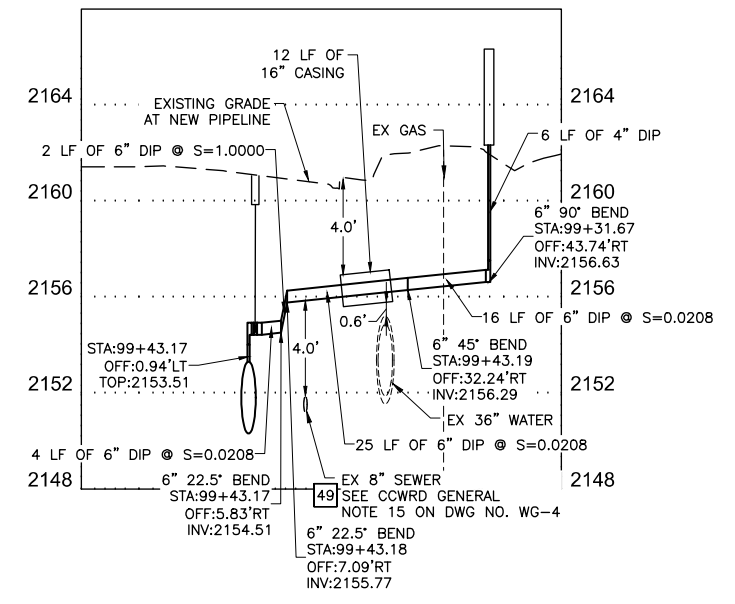
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 Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CAD\LVB Phase B Water Plans\34-36-C30-ARBV.dwg /  
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**AIR VALVE ASSEMBLY**  
**STA: 73+25.72**  
**SEE DWG NO. W-6**



**AIR VALVE ASSEMBLY**  
**STA: 99+43.17**  
**SEE DWG NO. W-9**



- CONSTRUCTION INDEX**
- 44 INSTALL 6" X 45' BEND, RESTRAIN ALL JOINTS
  - 63 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
  - 67 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 3 REMOVE AND REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
  - 6 REMOVE AND REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
  - 49 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS SD-19

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

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 Know what's below  
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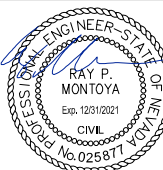
**SAFETY ALERT**  
 Call Before You Overhead  
 1-702-227-2929

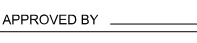

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 Call Before You Dig  
 1-800-336-9193

**UnderGround**  
 CALL BEFORE YOU DIG  
 1-702-432-5300  
 RESUME AND MISC. USES

NO.	REVISIONS	DATE

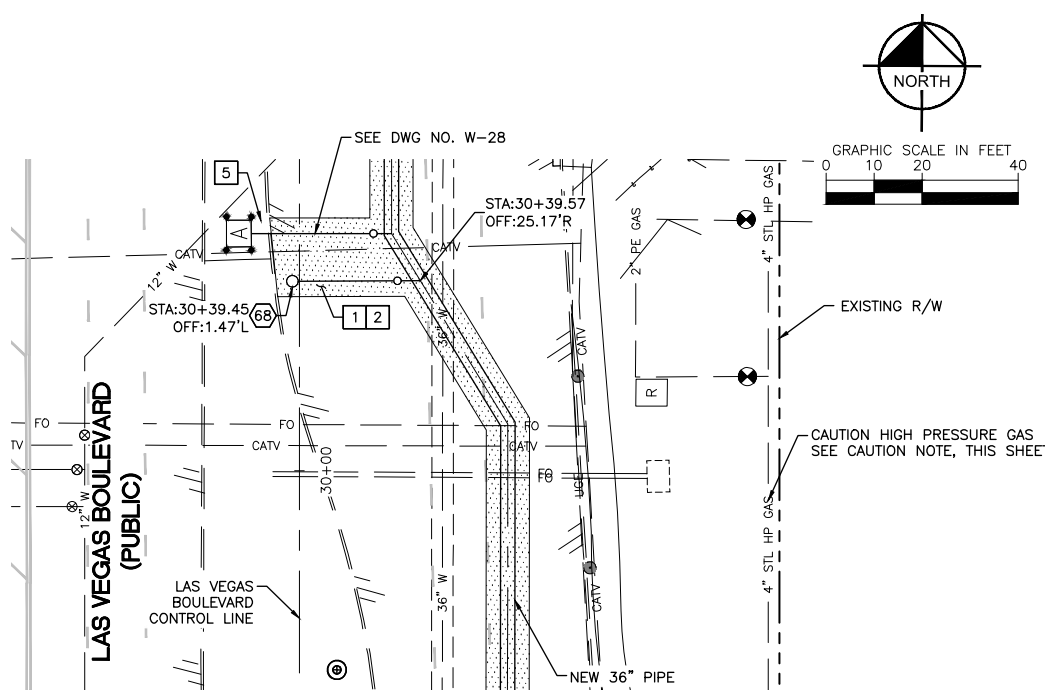
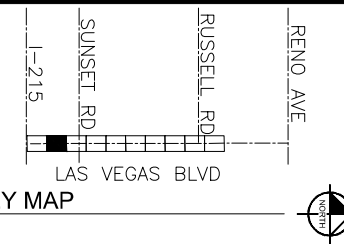

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 AIR RELEASE PLAN AND PROFILE 73+25 & STA 99+43  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

  
 11-05-2020

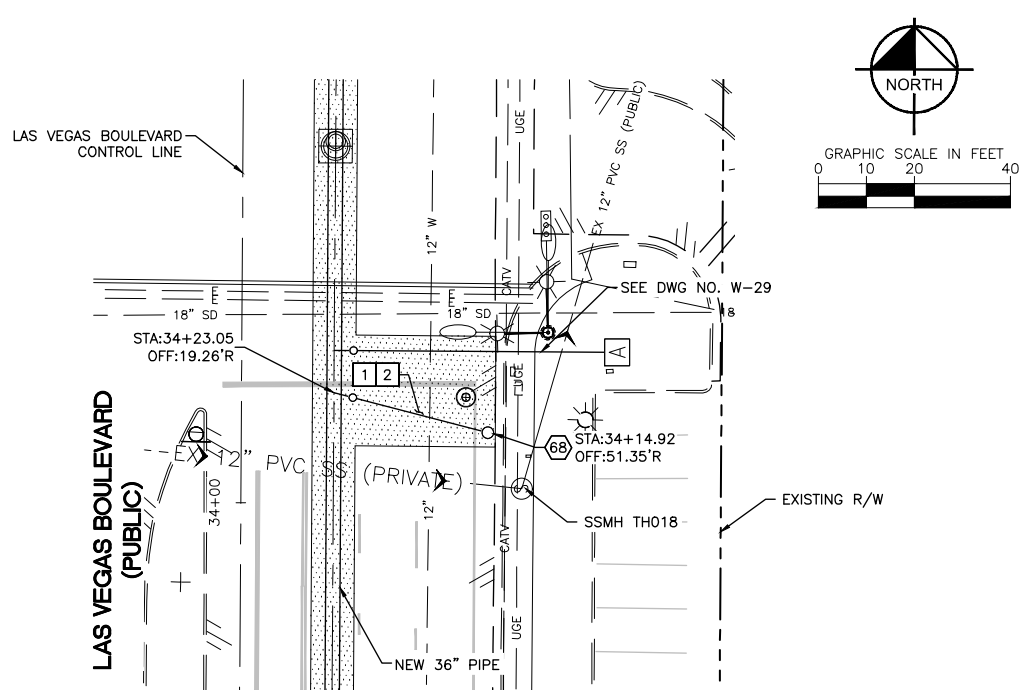
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: 1" = 4'  
 APPROVED BY:  FIELD BOOK:   
 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600  
 DRAWING NO. **W-30** SHT. 35 OF 61  
 L-2272

User: Gerardo.Gonzalez  
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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

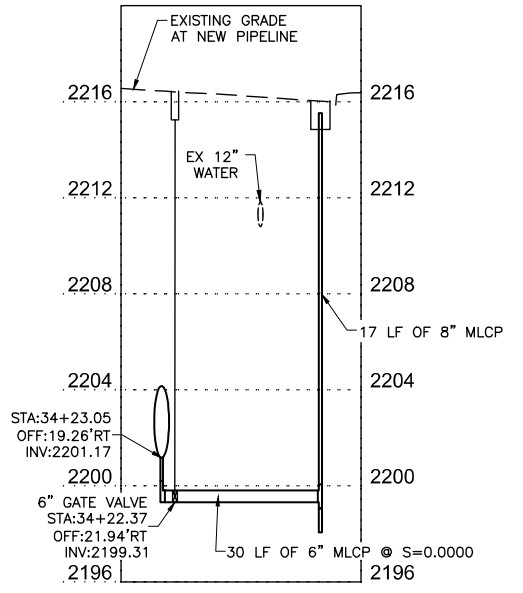
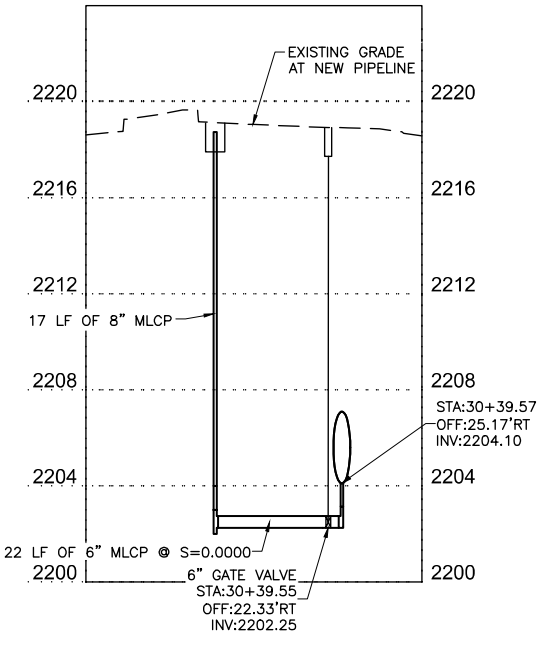


**BLOW-OFF ASSEMBLY**  
**STA: 30+39.57**  
**SEE DWG NO. W-2**



**BLOW-OFF ASSEMBLY**  
**STA: 34+23.05**  
**SEE DWG NO. W-2**

- CONSTRUCTION INDEX**
- (68) INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9



- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 5 REMOVE AND REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219

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 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

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NO.	REVISIONS	DATE

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 BLOW OFF ASSEMBLY PLAN AND PROFILE STA 30+39 & STA 34+23  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

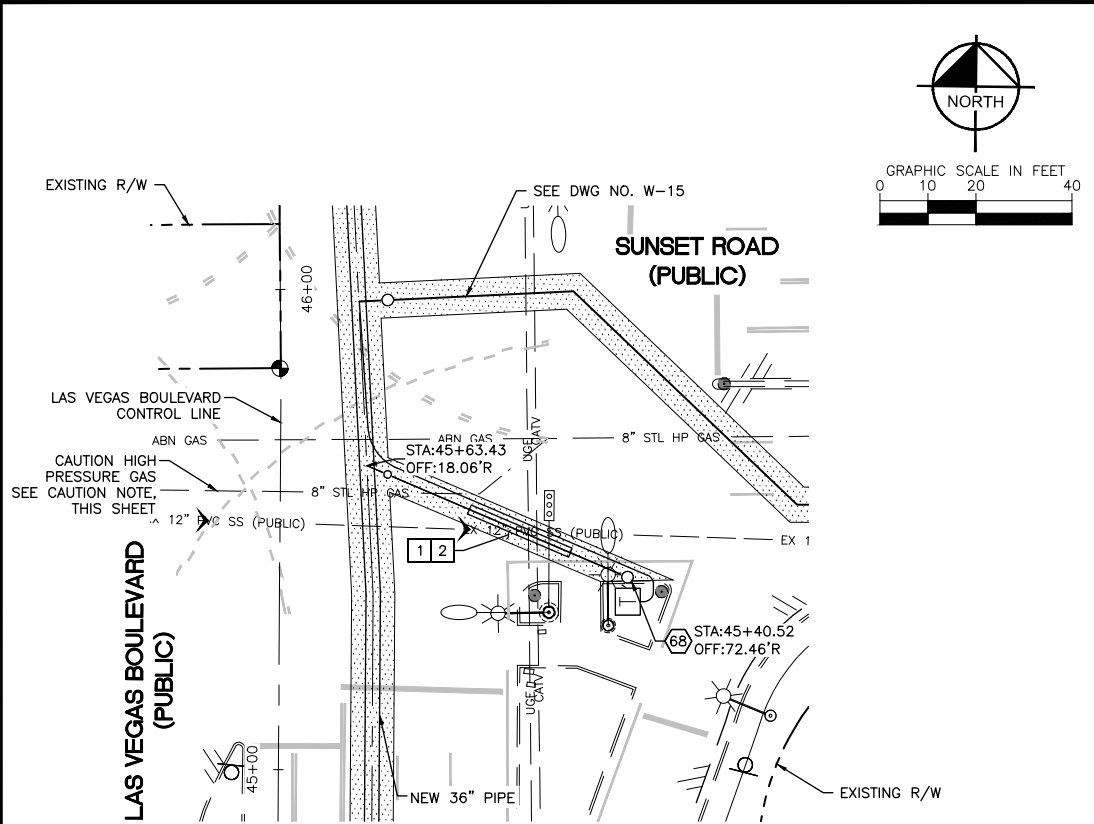
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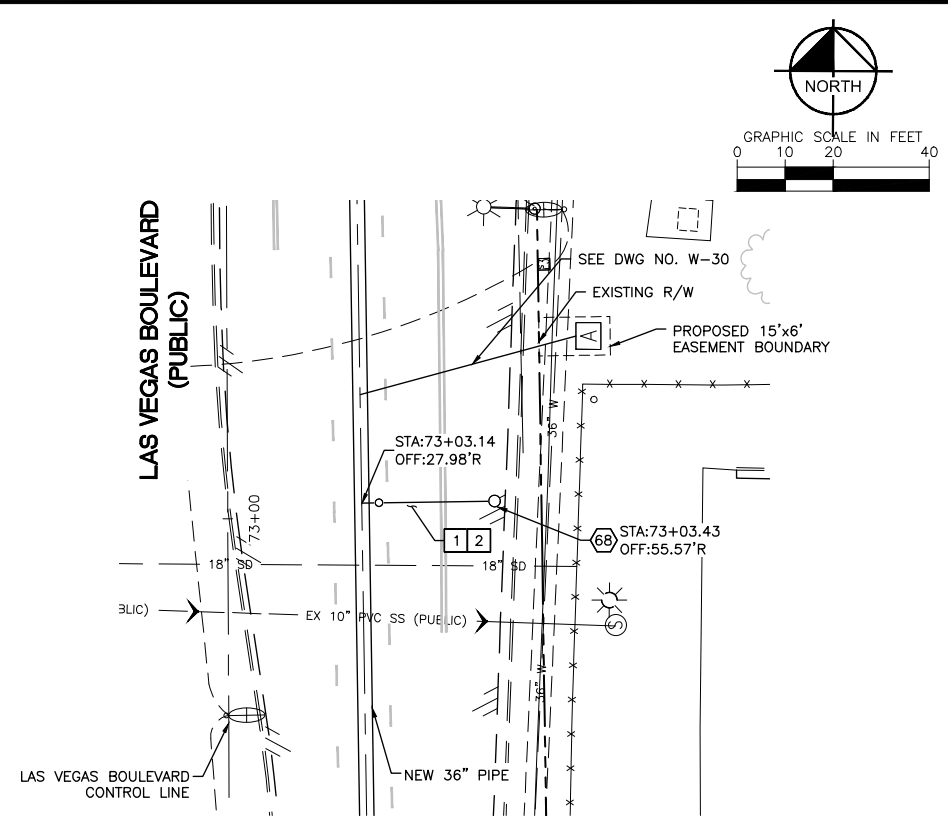
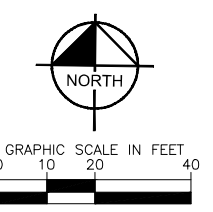
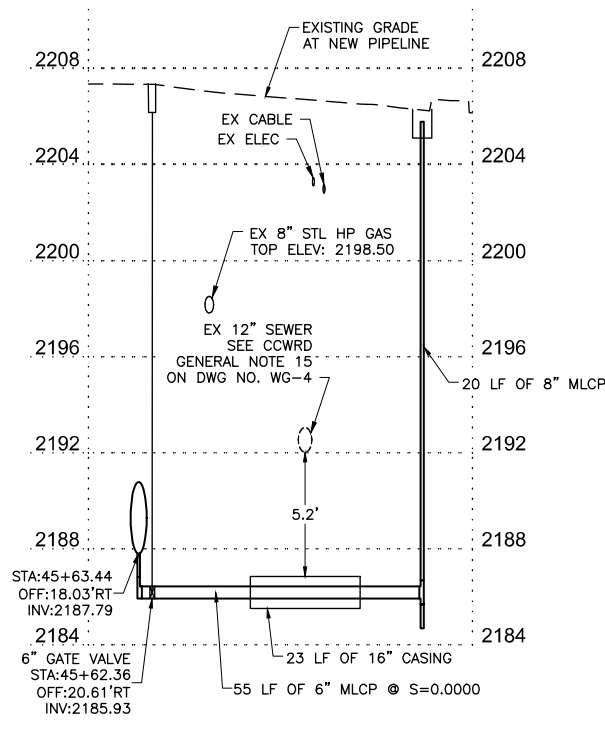
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 VERT: 1" = 4'  
 FIELD BOOK

DRAWING NO.  
**W-31**  
 SHT. 36 OF 61  
 L-2272

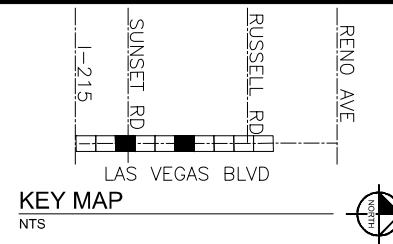
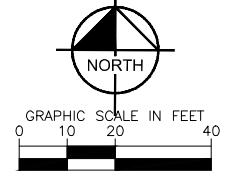
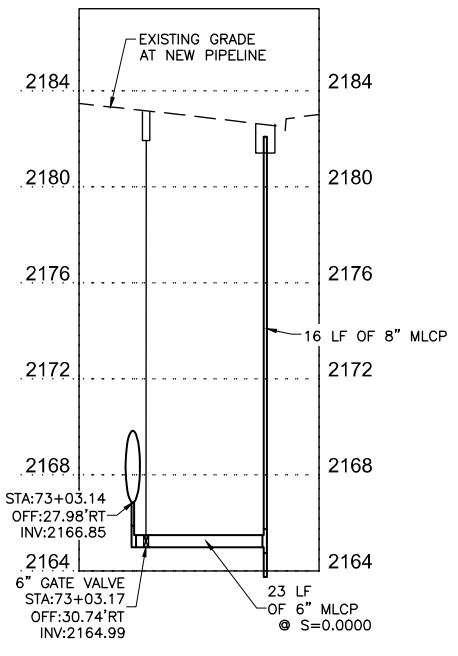
User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd Waterline Replacement - I-215 to Dewey Drive (Phase B)  
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**BLOW-OFF ASSEMBLY**  
**STA: 45+63.43**  
**SEE DWG NO. W-3**



**BLOW-OFF ASSEMBLY**  
**STA: 73+03.14**  
**SEE DWG NO. W-6**



**CONSTRUCTION INDEX**

(68) INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9

**CONSTRUCTION NOTES**

1 ALL TRENCH PER DETAILS ON DWG WD-1

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NO.	REVISIONS	DATE

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**BLOW OFF ASSEMBLY PLAN AND PROFILE STA 45+63 & STA 73+03**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

**Professional Engineer - State of Nevada**

RAY P. MONTOYA  
 Exp. 12/31/2021  
 CIVIL  
 License No. 025817

11-05-2020

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
 6671 Las Vegas Boulevard South Suite 320  
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE

HORIZ: 1" = 20'  
 VERT: 1" = 4'

FIELD BOOK

DRAWING NO. **W-32**

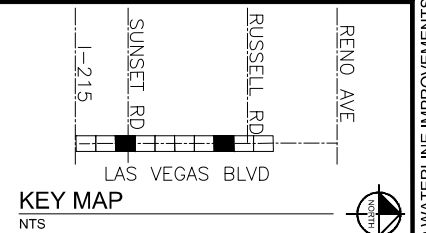
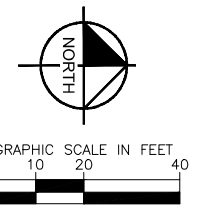
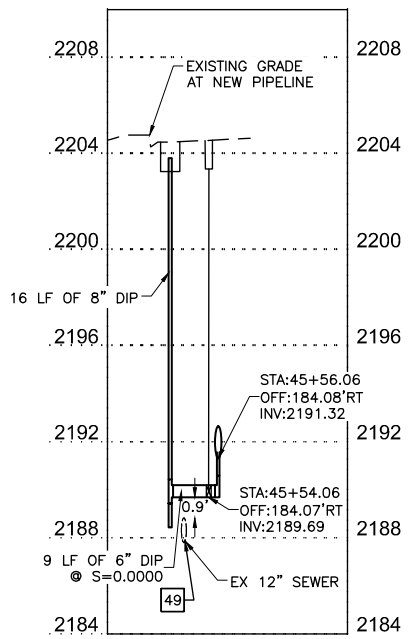
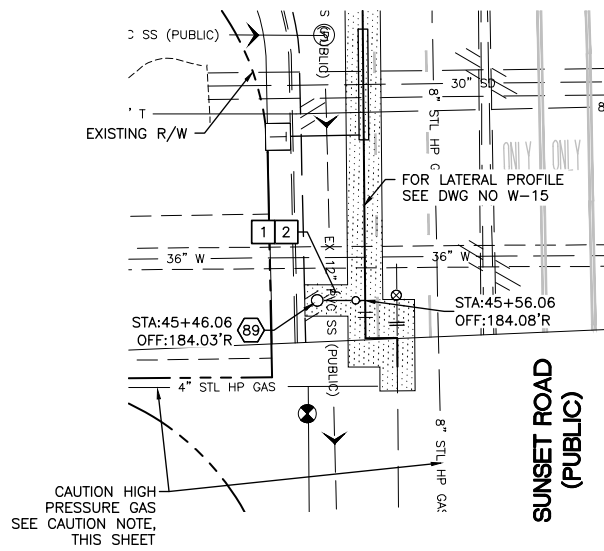
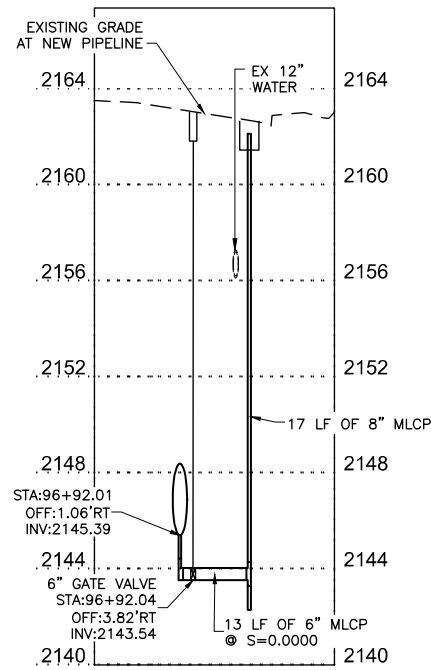
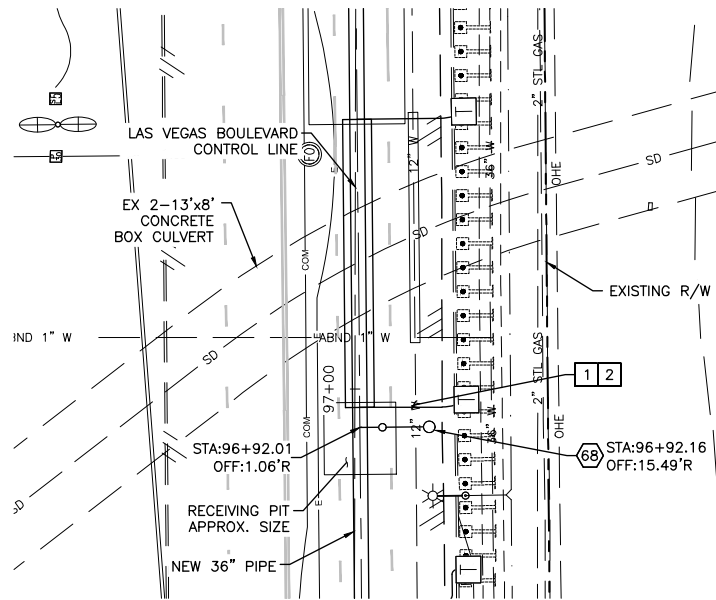
SHT. 37 OF 61

L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



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 Path: K:\TUC-WaterResources\098513000\_LasVegasBlvd\CADD\WB Phase B Water Plans\38-39-39\_LC3-C32-ARBV.dwg  
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- CONSTRUCTION INDEX**
- (68) INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9
  - (89) INSTALL BLOW-OFF ASSEMBLY PER UDACS PLATE 37 ON DWG WD-18

- CONSTRUCTION NOTES**
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
  - 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
  - 49 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS SD-19

**CAUTION: HIGH PRESSURE GAS!!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

**FIRE DEPARTMENT APPROVAL**

BY: PREVIOUSLY SIGNED BY BLAIR COON DATE: 10/15/2020

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF STATE OR COUNTY LAWS.

APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

**CCWRD APPROVAL**

PREVIOUSLY DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/23/2020  
 CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #20.1089  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

**811**  
 Know what's below  
 Call before you dig

**SAFETY ALERT**  
 Call Before You Overhead  
 1-702-277-2929

**UNION PACIFIC RAILROAD**  
 Call Before You Dig  
 1-800-336-9193

**Call Before you UnderGround**  
 1-702-432-5300  
 RESERVE AND AVOID ISSUES @ UNDERGROUND

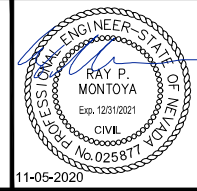
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

BLOW OFF ASSEMBLY PLAN AND PROFILE STA 96+92 & STA 45+56

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



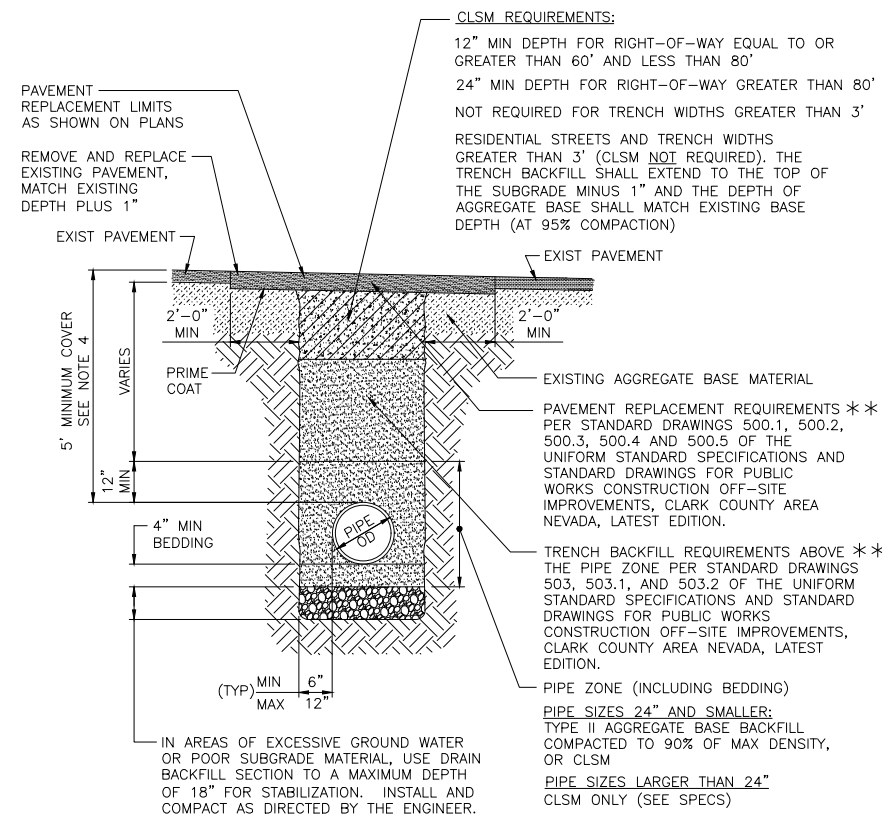
PROJECT No. 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

**Kimley-Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-33
VERT: 1" = 4'	SHT. 38 OF 61
FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

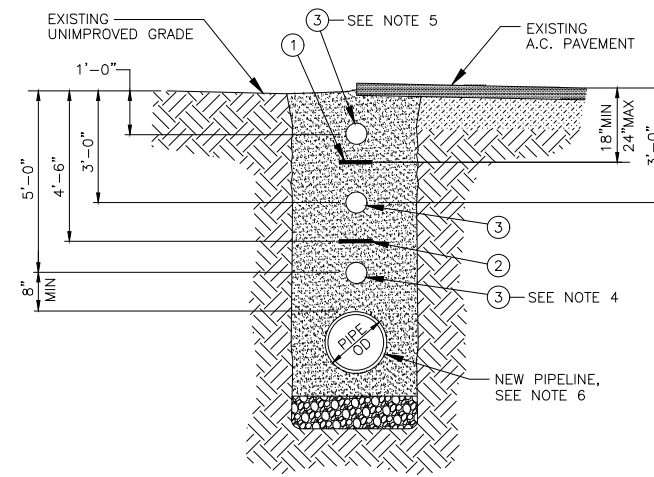
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**TRENCH BACKFILL - PAVED AREAS**

NOT TO SCALE PL02-1 081519

**1**  
 W1-W11, W15-W32



- ① PIPE LOCATOR RIBBON - 3" WIDTH
- ② PIPE LOCATOR RIBBON - 3" WIDTH (INSTALLED WHEN COVER OF NEW PIPELINE IS 7'-0" OR GREATER)
- ③ LOCATOR BALL - SEE NOTES

**NOTES:**

1. CENTER PIPE LOCATOR RIBBON IN TRENCH AND PLACE OVER ENTIRE LENGTH OF ALL TYPES, SIZES AND LOCATIONS OF WATER MAINS
2. LOCATOR BALLS REQUIRED AT ALL HORIZONTAL BENDS OR DEFLECTIONS, CASING ENDS, EVERY 400 FEET OF PIPELINE, OR WHERE REQUESTED BY ENGINEER.
3. IF A.C. PAVEMENT EXISTS INSTALL LOCATOR BALL AT 3'-0" (TYP).
4. IF A CUT TO FINISH GRADE IS ANTICIPATED INSTALL LOCATOR BALLS AT BOTH 3'-0" AND 5'-0" (TYP).
5. IF A FILL TO FINISH GRADE IS ANTICIPATED INSTALL LOCATOR BALLS AT BOTH 1'-0" AND 3'-0" (TYP).
6. RIBBON FOR RESTRAINED JOINTS/PIPE TO BE TAPED EVERY 20 FEET DIRECTLY TO TOP OF PIPE OR USE SELF-ADHERING RIBBON.

**PIPE LOCATOR RIBBON AND LOCATOR BALL INSTALLATION**

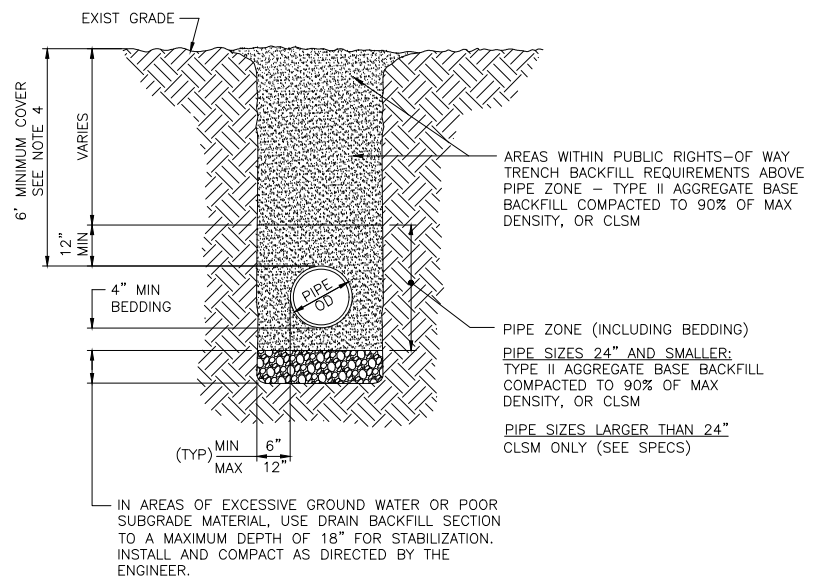
NOT TO SCALE PL02-6 110210

**3**  
 W1-W11, W15-W32

**NOTES FOR PAVED AND UNPAVED AREAS**

PL02-4 072315

1. **REFERENCES:** UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA, LATEST EDITION. INTERAGENCY QUALITY ASSURANCE COMMITTEE (IQAC)
2. SEE SPECS SEC 771 FOR ACCEPTABLE METHODS OF COMPACTION.
3. **TRENCH EXCAVATION:** COMPLY WITH THE CURRENT REGULATIONS AS DETERMINED BY NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
4. DURING CONSTRUCTION 24" MINIMUM COVER MUST BE MAINTAINED FROM TOP OF PIPE TO GRADE.
5. MINIMUM COVER IS REFERENCED TO FUTURE FINISHED FINAL GRADES UNLESS OTHERWISE SHOWN ON PROFILE DRAWINGS.
6. SUPPORT PIPE AND FIBER OPTIC CONDUITS (IF REQUIRED) WITH SANDBAGS AND SPOT LOAD AS REQUIRED DURING INSTALLATION OF CLSM IN PIPE ZONE AND PIPE BEDDING AREAS.
7. DIAGONAL PAVEMENT REPLACEMENT IS NOT PERMITTED.
8. FOG SEAL (SEAL COAT) ALL DENSE GRADE PAVEMENT REPLACEMENT SECTIONS.



**TRENCH BACKFILL - UNPAVED AREAS**

NOT TO SCALE PL02-2 070208

**2**  
 W1-W11, W15-W32

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

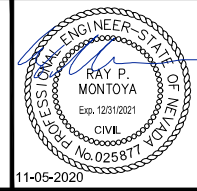
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**CIVIL DETAILS - MAIN**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



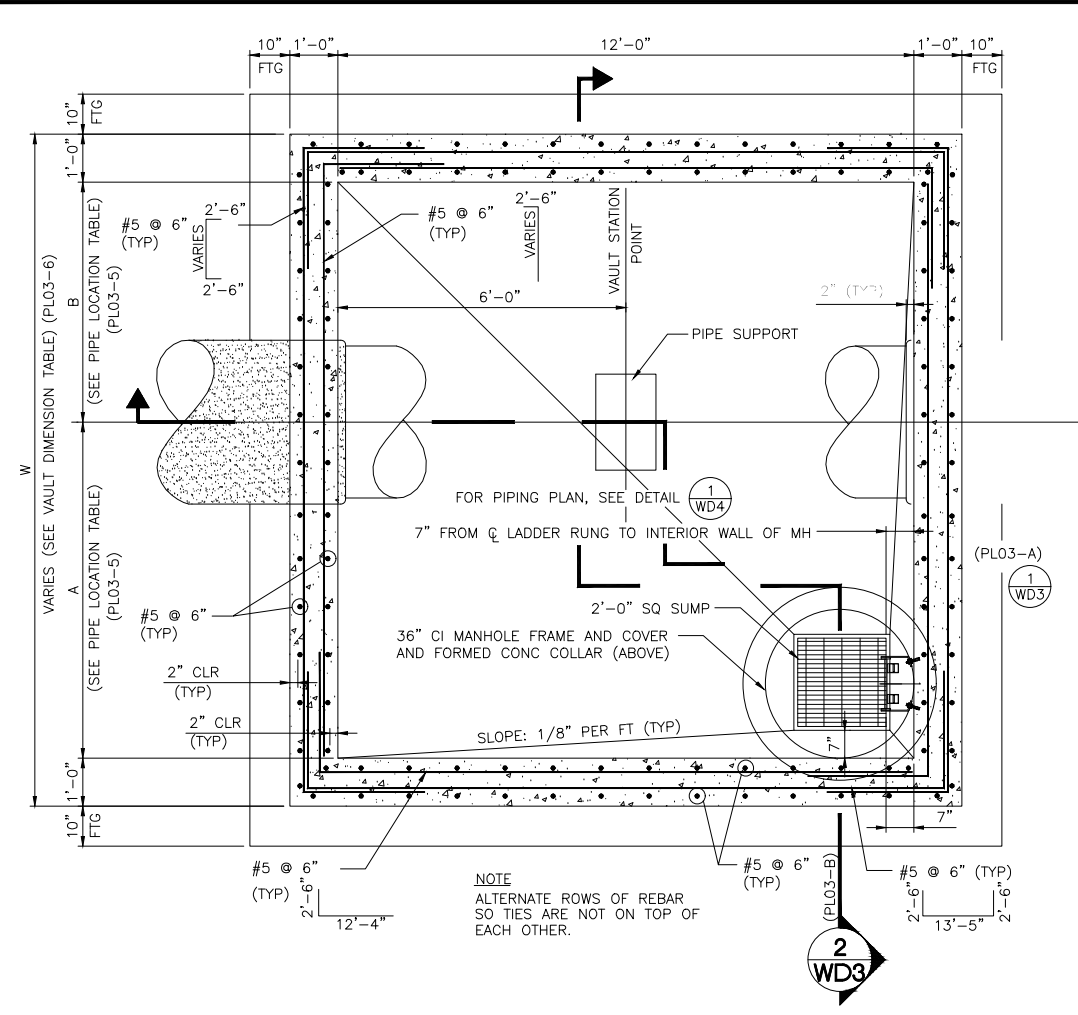
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_



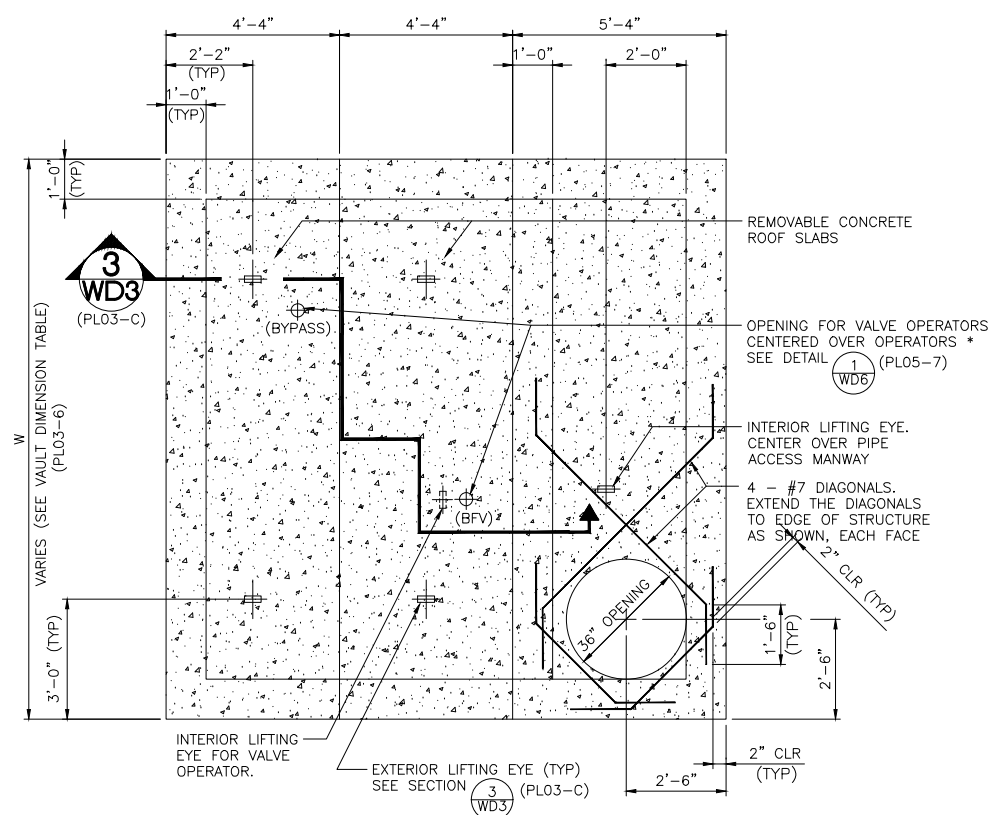
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FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

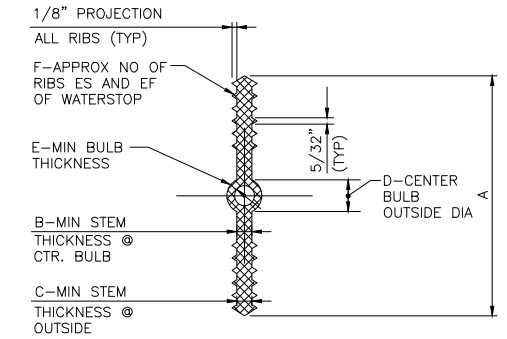
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**SECTIONAL PLAN**  
 NOT TO SCALE PL03-1 071003  
**1**  
 W3, W5, W8, W10



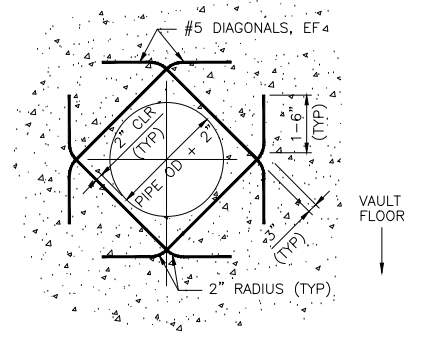
**ROOF PLAN**  
 NOT TO SCALE PL03-2 032305  
**2**  
 W3, W5, W8, W10



SIZE	A	B	C	D	E	F
6"x3/8"	6"	3/8"	3/8"	7/8"	1/4"	6

- NOTES:**
1. MATERIAL QUALITY PER SPECIFICATIONS.
  2. DIMENSION REQUIREMENTS INDICATED SHOULD BE GIVEN TO SUPPLIERS PRIOR TO PLACING ORDERS.
  3. NON-ROUND CENTER BULBS SHALL HAVE A MIN OUTSIDE DIMENSION OF "D".

**WATERSTOP DETAIL**  
 NOT TO SCALE PL03-3 072315  
**3**  
 W3, W5, W8, W10



**WALL OPENING - DIAGONAL REINFORCEMENT DETAIL**  
 NOT TO SCALE PL03-4 071003  
**4**  
 W3, W5, W8, W10

PIPE LOCATION TABLE  
 PL03-5 060101

PIPE ID	A	B	C
36"	7'-0"	5'-0"	4'-3"

VAULT DIMENSION TABLE  
 PL03-6 033103

	PIPELINE SIZE
	30"-36"
H	9'-6"
W	14'-0"

- NOTES PL03-7 060601
1. CONCRETE FOR VAULT STRUCTURES SHALL BE 4000 PSI, UNLESS OTHERWISE SPECIFIED.
  2. PIPE OUTLET SHALL BE SHAPED TO FIT THE SPECIFIED PIPE DIAMETER.
  3. MAINTAIN A MIN CLEARANCE OF 2" OF COVER FOR REINFORCED STEEL, UNLESS OTHERWISE SPECIFIED.
  4. BACKFILL ON TOP AND ALL SIDES OF VAULT STRUCTURE WITH TYPE II AGGREGATE BASE. PLACE AND COMPACT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
  5. BACKFILL UNDER VAULT FLOOR SLAB WITH 12" OF TYPE II AGGREGATE BASE COMPACT TO 95% OF MAX DENSITY, UNLESS OTHERWISE SPECIFIED.

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

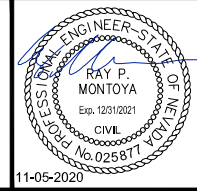
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - MAIN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_



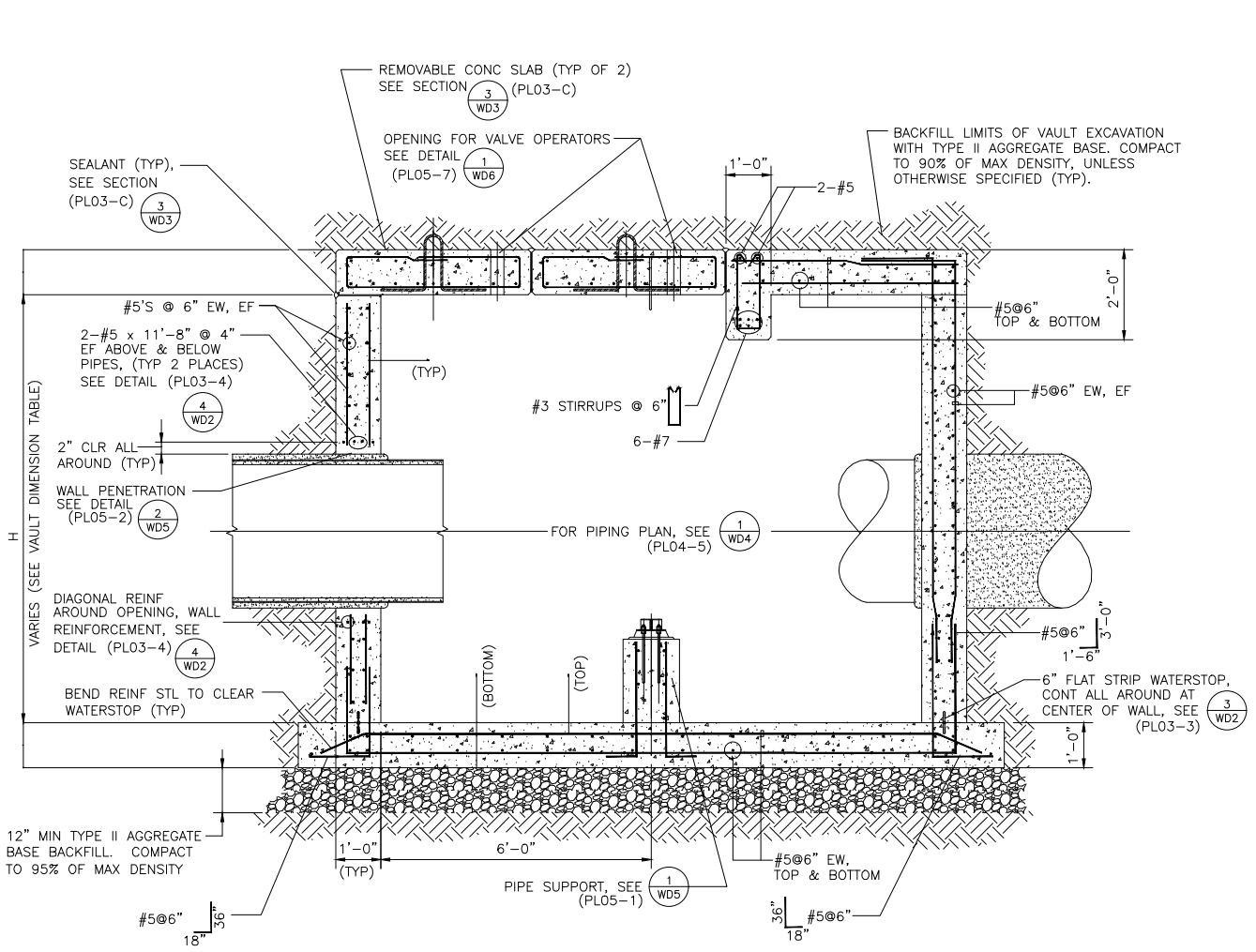
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FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

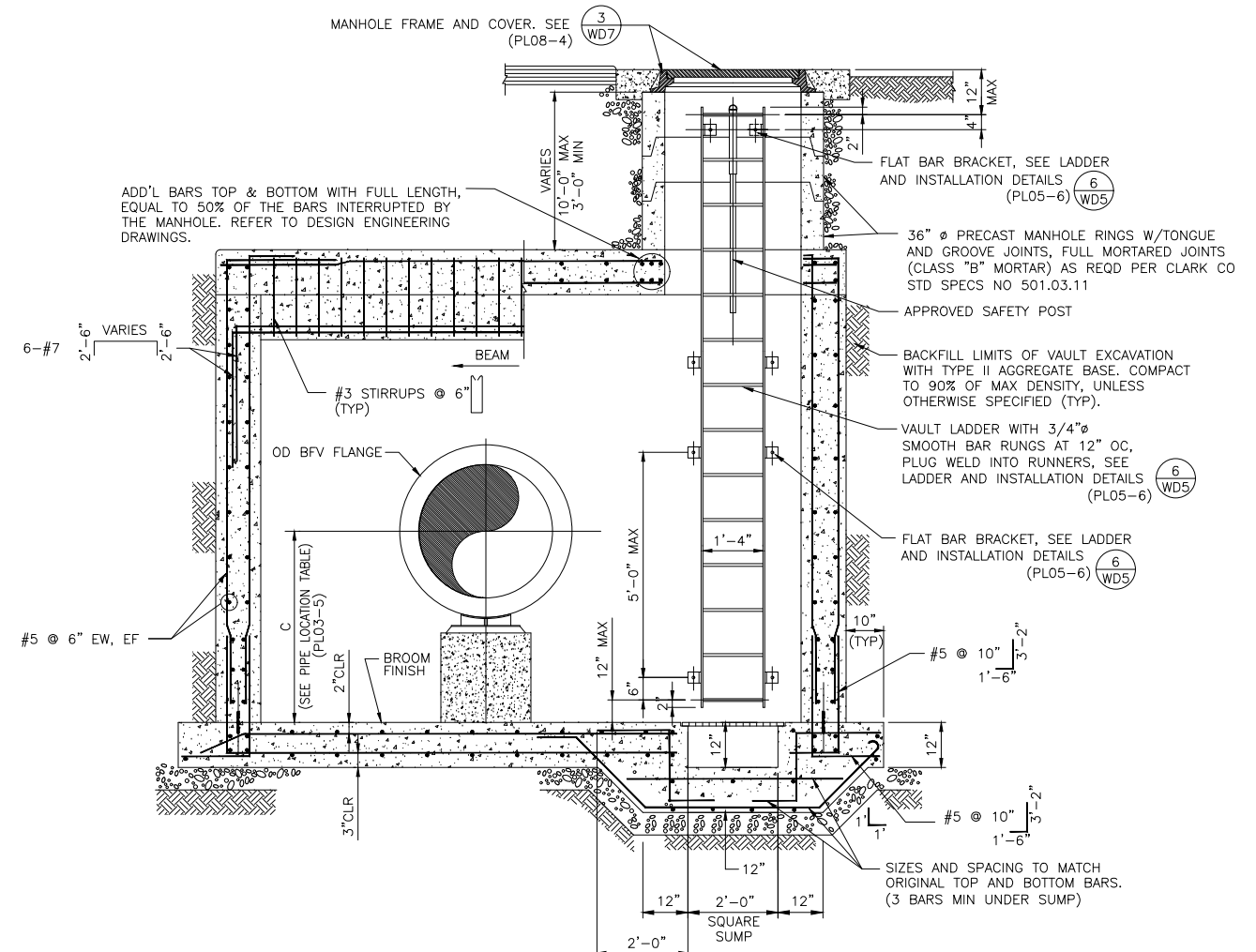


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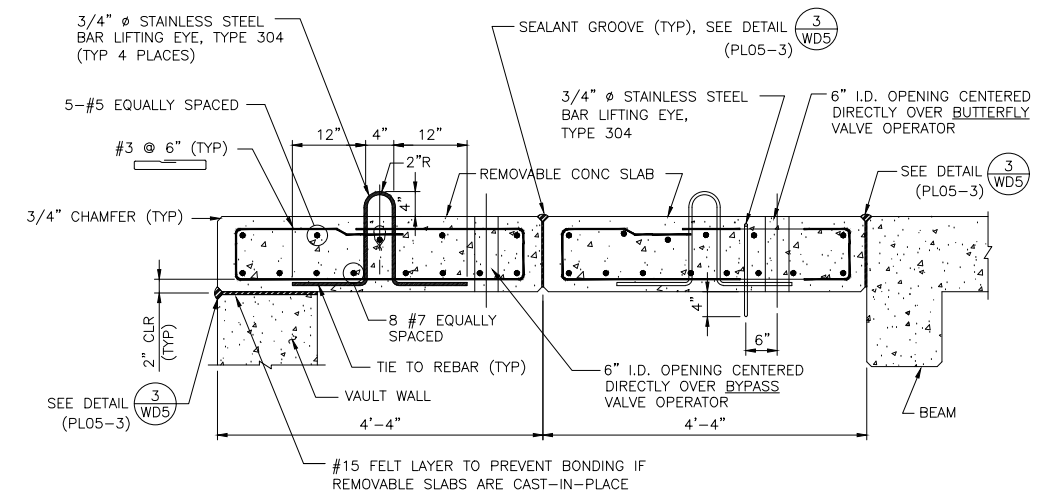
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



**SECTION 1**  
 SCALE 1/2" = 1'-0"  
 PL03-A 063006  
**W3,W5,W8,W10**



**SECTION 2**  
 SCALE: 1/2" = 1'-0"  
 PL03-B 090419  
**W3,W5,W8,W10**



**REMOVABLE CONCRETE SLAB SECTION 3**  
 NOT TO SCALE  
 PL03-C 032305  
**W3,W5,W8,W10**

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

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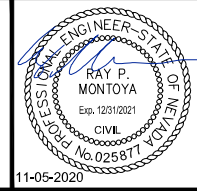
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**CIVIL DETAILS - MAIN**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

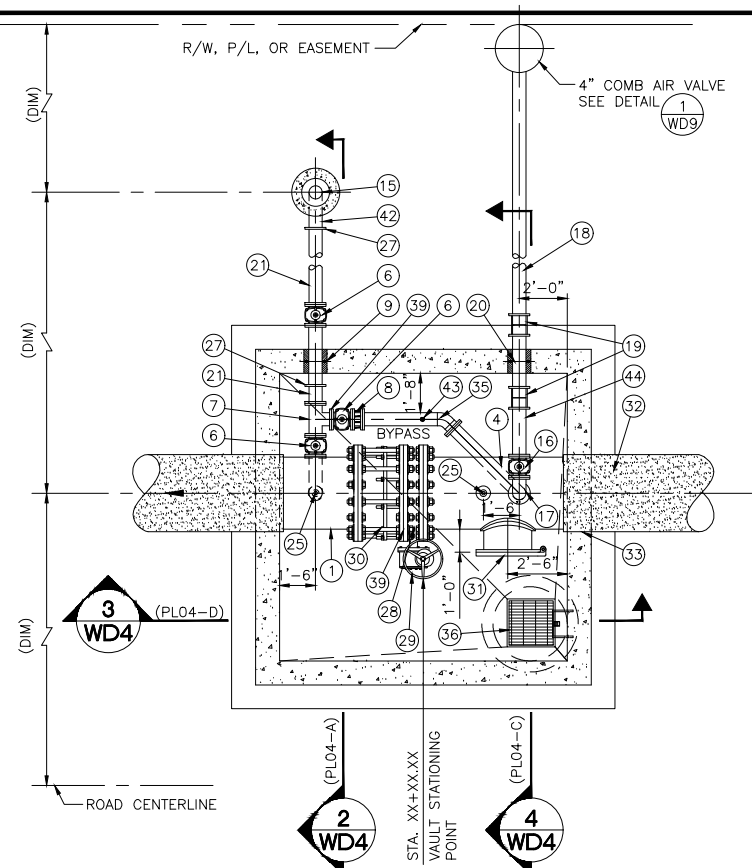


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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
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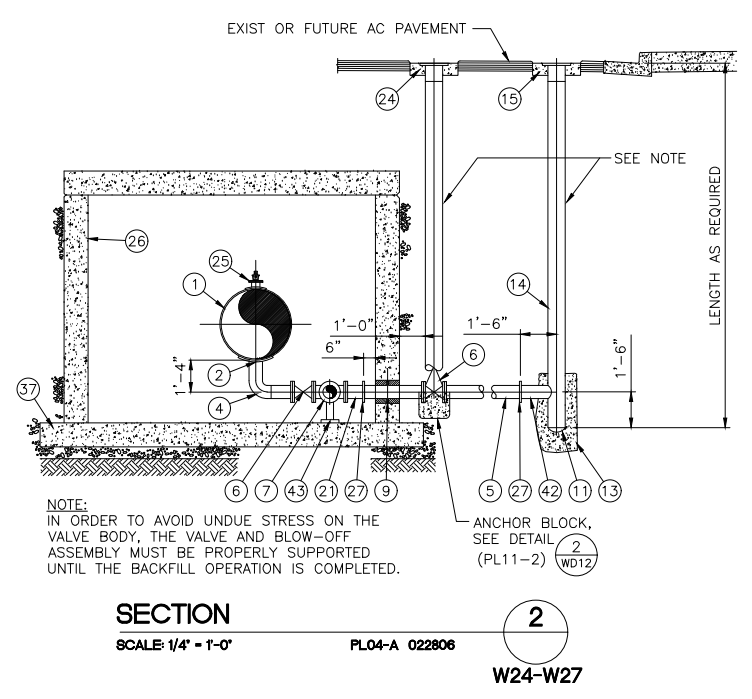
**Kimley Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
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FIELD BOOK	L-2272

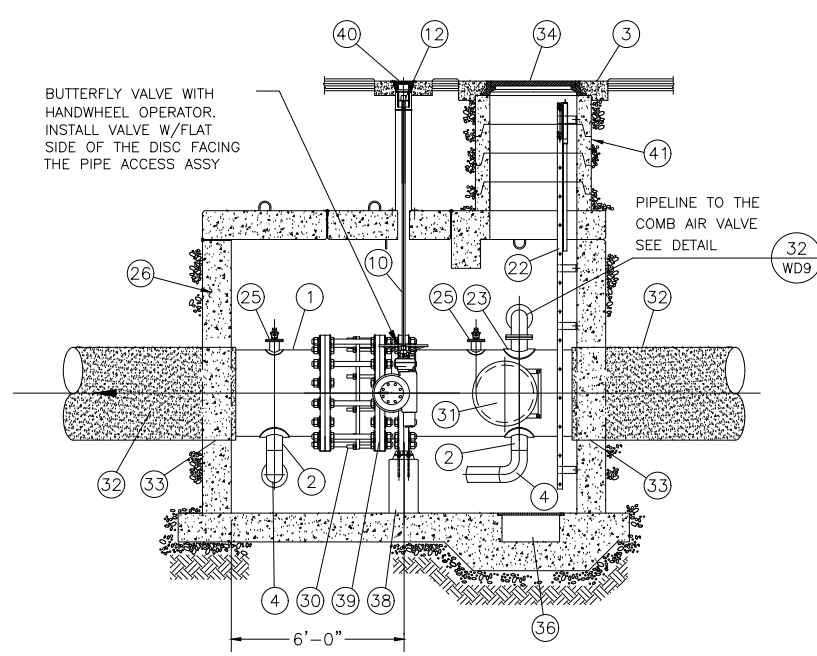
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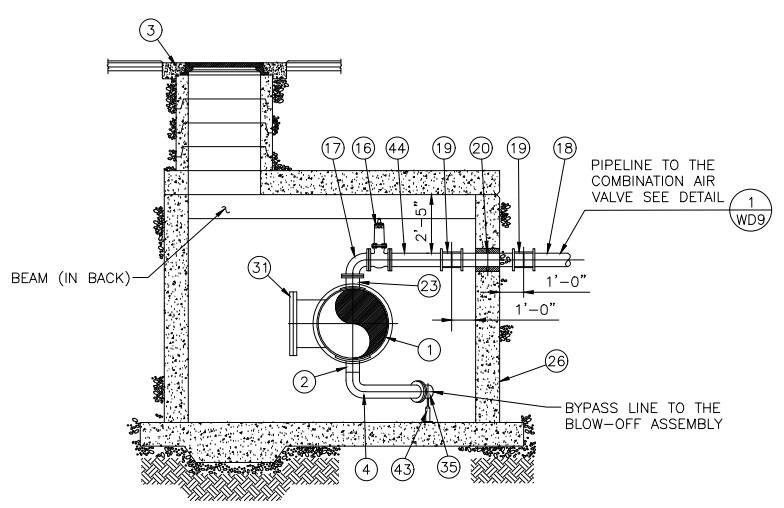
**PIPING PLAN - DISMANTLING JOINT 1**  
 SCALE: 1/4" = 1'-0"  
 PL04-5 070208  
 W3,W5,W8,W10



**SECTION 2**  
 SCALE: 1/4" = 1'-0"  
 PL04-A 022806  
 W24-W27



**PIPING PROFILE SECTION - DISMANTLING JOINT 3**  
 SCALE: 1/4" = 1'-0"  
 PL04-D 070208  
 W3,W5,W8,W10



**SECTION 4**  
 SCALE: 1/4" = 1'-0"  
 PL04-C 070208  
 W3,W5,W8,W10

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

COMONENT DESCRIPTIONS - DISMANTLING JOINT		PL04-6 062419
ITEM	DESCRIPTION	
1	ML STL PIPE, SEE SPECS SEC 752	
2	6" ML STL OUTLET AND COLLAR PLATE	
3	10" THK FORMED CONCRETE COLLAR	
4	6" - 90° ML STL ELBOW W/WELDED SHORT PIECE W/FLANGE	
5	6" SCH 40 MLC STL PIPE FLANGED x GROOVED ENDS	
6	6" FLANGED GATE VALVE NRS (2" SQUARE OPERATING NUT OUTSIDE VAULT OR HAND WHEEL INSIDE VAULT) SEE SPECS SEC 755. BYPASS VALVE INSIDE VAULT SHALL HAVE 1-1/4" VALVE OPERATOR STEM EXTENSION W/UNIVERSAL JOINT THROUGH ROOF TO STREET, SEE DETAIL 1 ON DWG WD6	(PL05-7)
7	6" ML STL FLANGED TEE	
8	6" DISMANTLING JOINT - SEE SPECS SEC 766	
9	6" SCH 40 FABR STL MLC WALL SPOOL - GROOVED x FLANGED ENDS W/WALL FLANGE.	
10	1-1/4" VALVE OPERATOR STEM EXTENSION W/UNIVERSAL JOINT THROUGH ROOF TO STREET, SEE DETAIL 1 ON DWG WD6	(PL05-7)
11	8" SCH 30 MLC STL BUMPED HEAD	
12	2" SQ OPERATING NUT	
13	ENCASE BUMPED HEAD IN CONCRETE 4" MIN ALL AROUND	
14	8" SCH 30 MLC STL PIPE	
15	BLOW-OFF COVER ASSEMBLY, SEE DETAIL 2 ON DWG WD9	(PL09-2)
16	6" FLANGED GATE VALVE, SEE SPECS SEC 755	
17	6" - 90° WELDED FLANGED ML STL ELBOW	
18	6" DIP PC350 OR 6" PVC CL150 DR18 PIPE	
19	6" SLEEVE TYPE COUPLING - SEE SPECS SEC 76	
20	6" SCH 40 FABRICATED STL MLC WALL SPOOL - PLAIN ENDS W/WALL FLG	
21	6" SCH 40 ML STL PIPE - FLANGED x GROOVED	
22	GALVANIZED CARBON STEEL LADDER, SEE DETAIL 6 ON DWG WD5	
23	6" FLANGED ML STL OUTLET	
24	VALVE BOX AND CONCRETE COLLAR. SEE DETAIL 3 ON DWG WD10	(PL10-8)
25	CORP STOP, SEE DETAIL 5 ON DWG WD5	(PL05-5)
26	VAULT WALL	
27	6" MECHANICAL COUPLING - SEE SPECS 766	
28	BUTTERFLY VALVE - SEE SPECS SEC 762	
29	BUTTERFLY VALVE OPERATOR - SEE SPECS SEC 762	
30	DISMANTLING JOINT - SEE SPECS SEC 766	
31	24" ACCESS MANWAY, SEE VAULT ACCESS MANWAY DETAIL 2 ON DWG WD7	(PL08-3)
32	MLC STL PIPE, SEE SPECS SEC 752	
33	WALL PENETRATION, SEE DETAIL 2 ON DWG WD5	(PL05-2)
34	36" C.I. MANHOLE FRAME, SEE SECTION 2 ON DWG WD3	(PL03-B)
35	6" SCH 40 ML STL PIPE - FLANGED x PLAIN END AND WELDED WITH FLANGED x PLAIN END 45° BEND. BYPASS LINE TO BLOW-OFF ASSEMBLY	(PL03-B)
36	2' SQ. SUMP, SEE SECTION 2 ON DWG WD3	(PL03-B)
37	CONCRETE FOOTING, SEE SECTION 2 ON DWG WD3	(PL03-B)
38	PIPE SUPPORT, SEE DETAIL 1 ON DWG WD5	(PL05-1)
39	INSULATING FLANGE, SEE DETAIL 4 ON DWG WD5	(PL05-4)
40	VALVE BOX ON VAULT, SEE DETAIL 1 ON DWG WD6	(PL05-7)
41	36" PRECAST MANHOLE RINGS, SEE SECTION 2 ON DWG WD3	(PL03-B)
42	6" SCH 40 MLC STL PIPE - GROOVED x PLAIN END WELDED TO 8" STL PIPE	
43	ADJUSTABLE PIPE SUPPORT, SEE SPECS SEC 767	
44	6" SCH 40 ML STL PIPE - FLANGED x PLAIN END	

NO.	REVISIONS	DATE

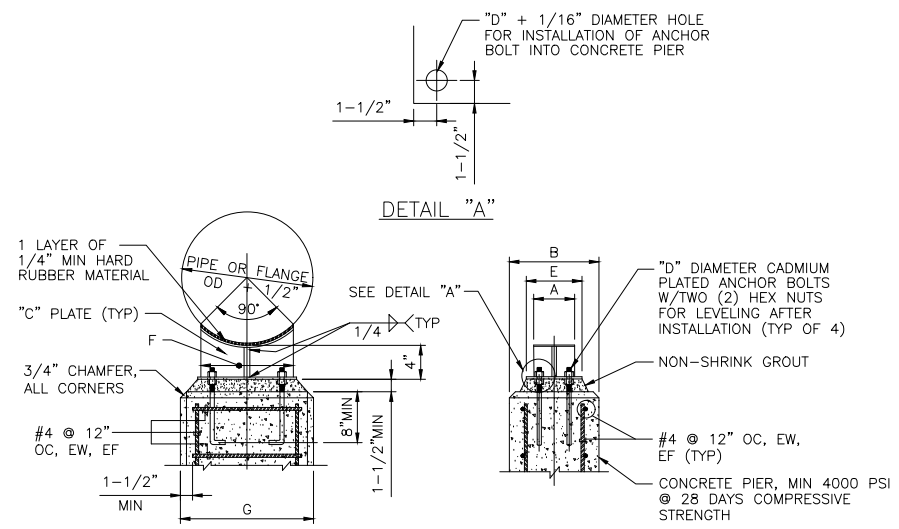
**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CIVIL DETAILS - MAIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK SCALE: HORIZ: N/A DRAWING NO. WD-4  
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 APPROVED BY: FIELD BOOK: L-2272  
 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600  
 11-05-2020

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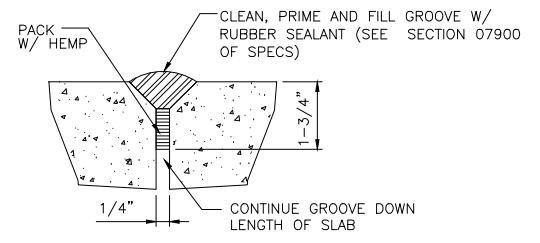
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



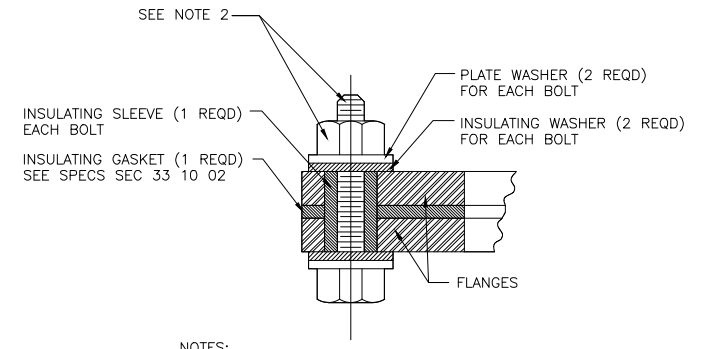
**PIPE SUPPORT DETAIL 1**  
 NOT TO SCALE PL05-1 071003  
 W3,W5,W8,W10

NOMINAL PIPE SIZE	SUPPORTING								
	A	B	C	D	E	STL	CYL PIPE	FLANGE	G
36"	6"	15"	3/8"	3/4"	6"	27"	33"	33"	39"

**PIPE SUPPORT TABLE**  
 NOT TO SCALE PL05-1 071003  
 W3,W5,W8,W10

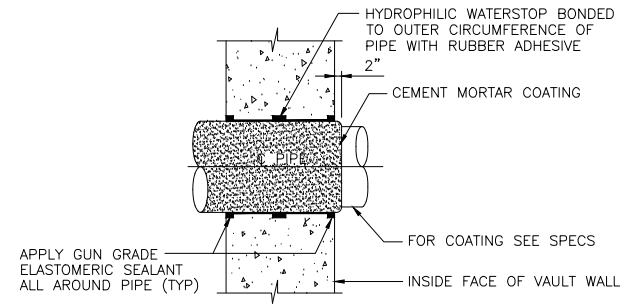


**SEALANT GROOVE DETAIL 3**  
 NOT TO SCALE PL05-3 071003  
 W3,W5,W8,W10

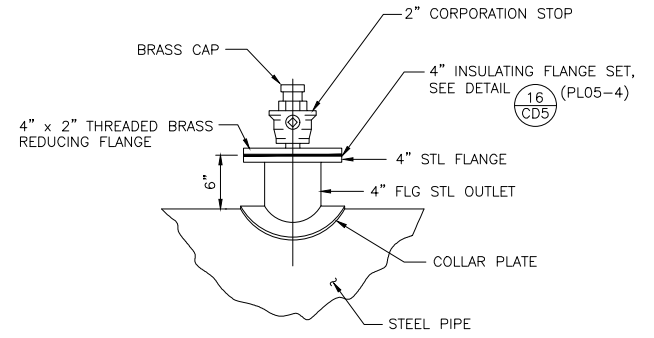


- NOTES:**
- TORQUE BOLTS PER INSULATING FLANGE SET MANUFACTURERS RECOMMENDATIONS (TYP).
  - VAULT LOCATIONS: ASTM F593, SS TYPE 316 BOLT WITH ASTM A563 NUT, XYLAN 1000 SERIES COATING.  
 BURIED OR EXPOSED LOCATIONS: ASTM A307 BOLT - UNC THREADS, WITH ASTM A563 NUT, ZINC COATED.

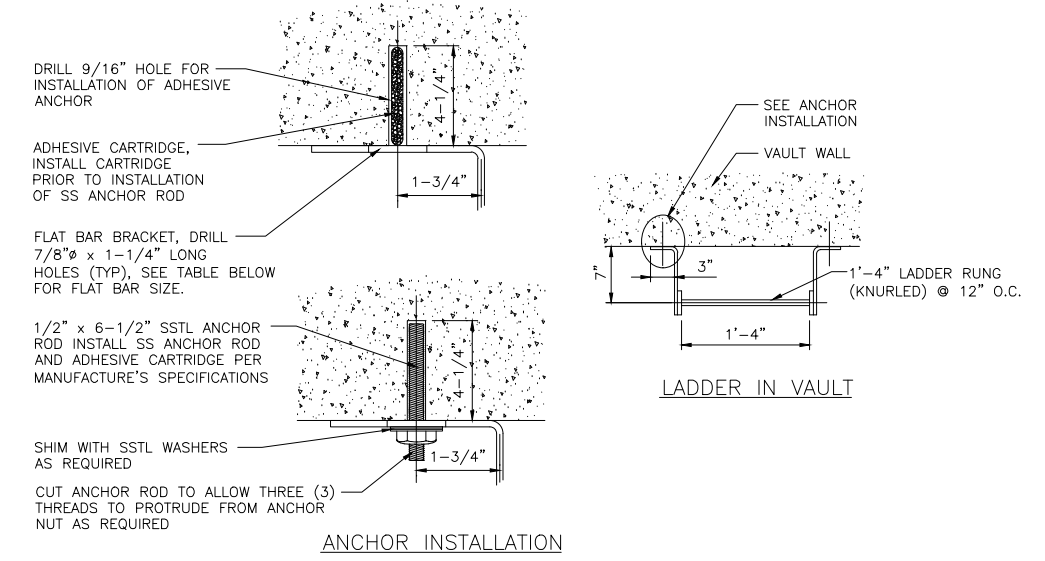
**INSULATING FLANGE SET DETAIL 4**  
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 W3,W5,W8,W10



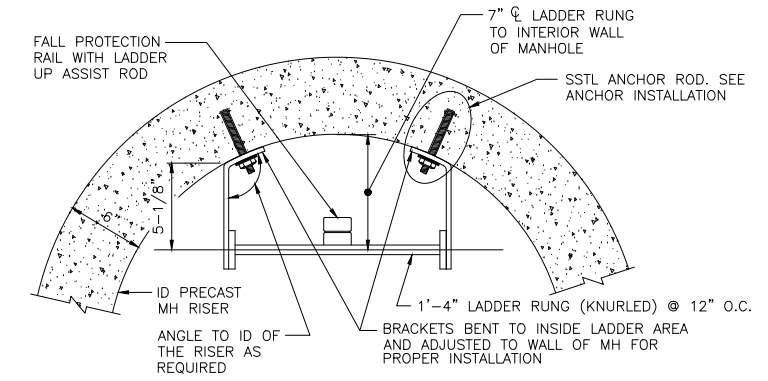
**WALL PENETRATION DETAIL 2**  
 NOT TO SCALE PL05-2 122603  
 W3,W5,W8,W10



**CORPORATION STOP DETAIL 5**  
 NOT TO SCALE PL05-5 071003  
 W3,W5,W8,W10



**ANCHOR INSTALLATION**



**LADDER IN MANHOLE**

FLAT BAR SIZE	
LADDER LENGTH	FLAT BAR SIZE
5'-0" TO 20'-0"	3" x 3/8"
OVER 20'-0"	4" x 1/2"

- NOTES:**
- APPROVAL OF THE ENGINEER REQUIRED FOR ANY BRACKET SPACING OVER 5'-0" OC
  - LADDER SHALL BE MADE OF MILD CARBON STEEL WITH 3/4" DIA BAR RUNGS (KNURLED) PLUG WELDED TO RUNNERS.
  - GALVANIZE LADDER ASSEMBLY AFTER WELDING.

**LADDER INSTALLATION DETAILS 6**  
 NOT TO SCALE PL05-6 013018  
 W3,W5,W8,W10

**LVVWD APPROVAL**

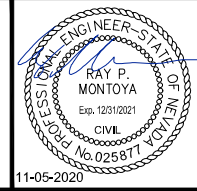
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PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

NO.	REVISIONS	DATE

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CIVIL DETAILS - MAIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

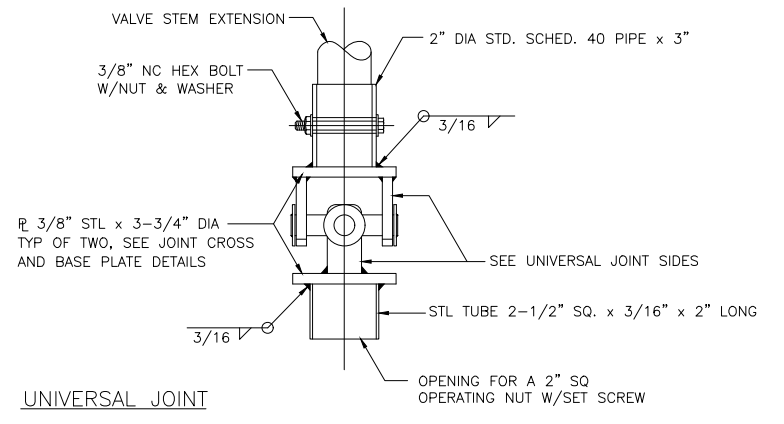
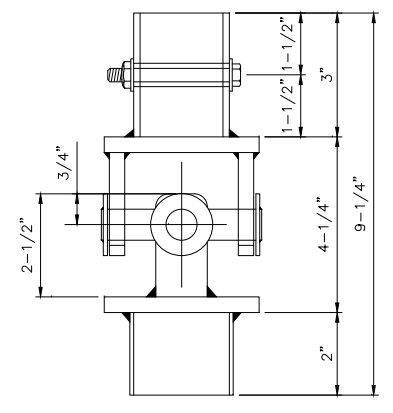
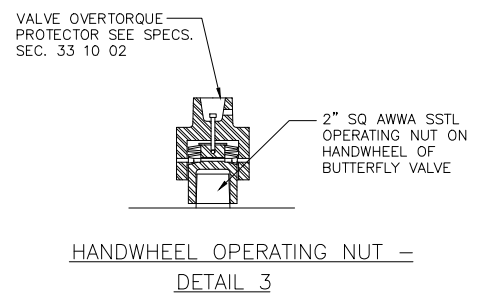
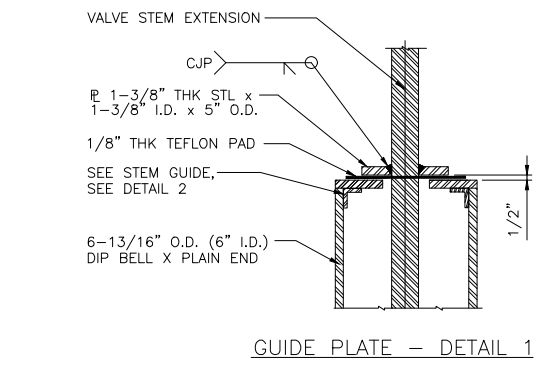
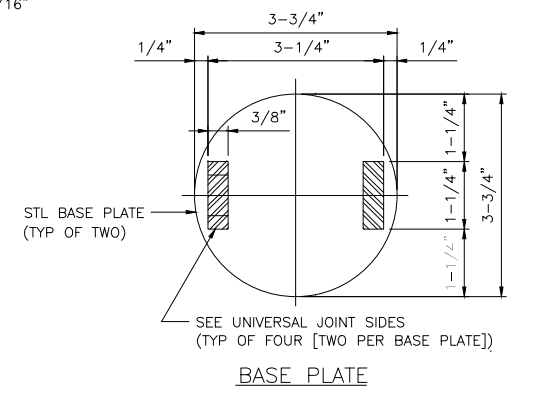
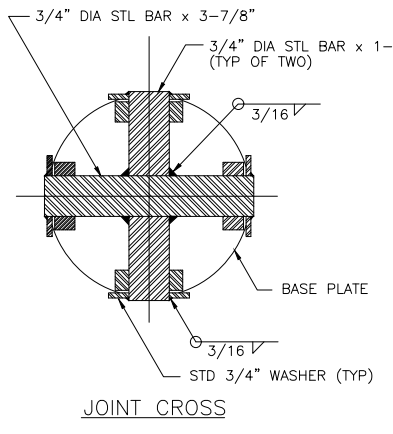
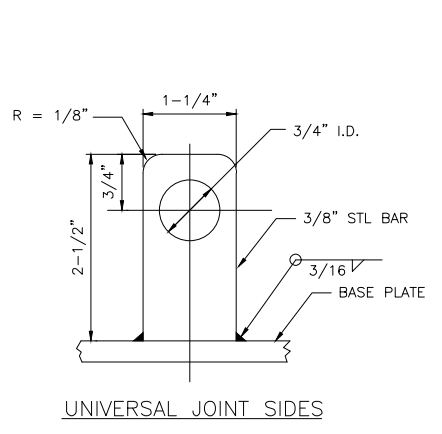
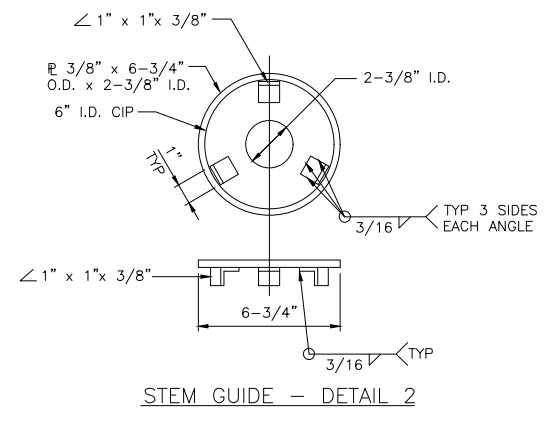
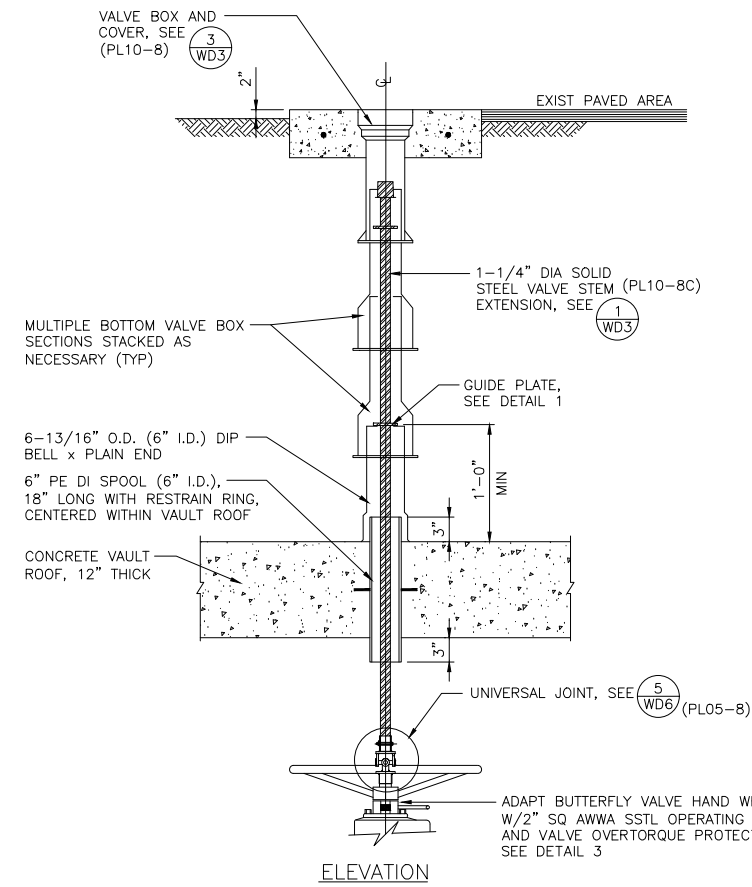
**Kimley»Horn**

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VERT:	N/A	
FIELD BOOK		
		SHT. 43 OF 61
		L-2272



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NOTE  
 ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.  
**UNIVERSAL JOINT DETAIL 2**  
 NOT TO SCALE PL05-8 071003  
**W3,W5,W8,W10**

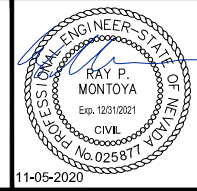
**VALVE BOX ON VAULT DETAIL 1**  
 NOT TO SCALE PL05-7 061319  
**W3,W5,W8,W10**

**LVVWD APPROVAL**  
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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CIVIL DETAILS - MAIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

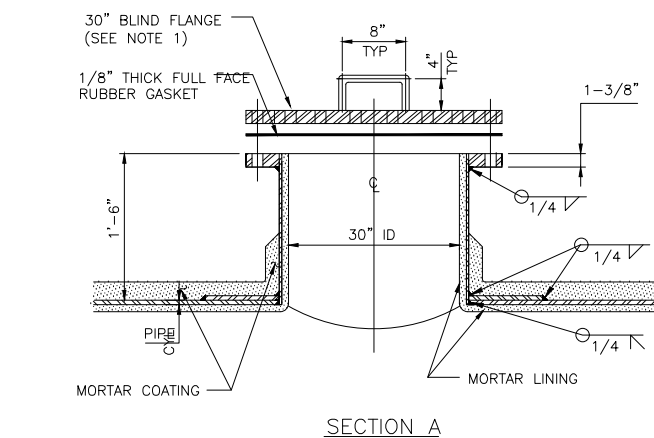
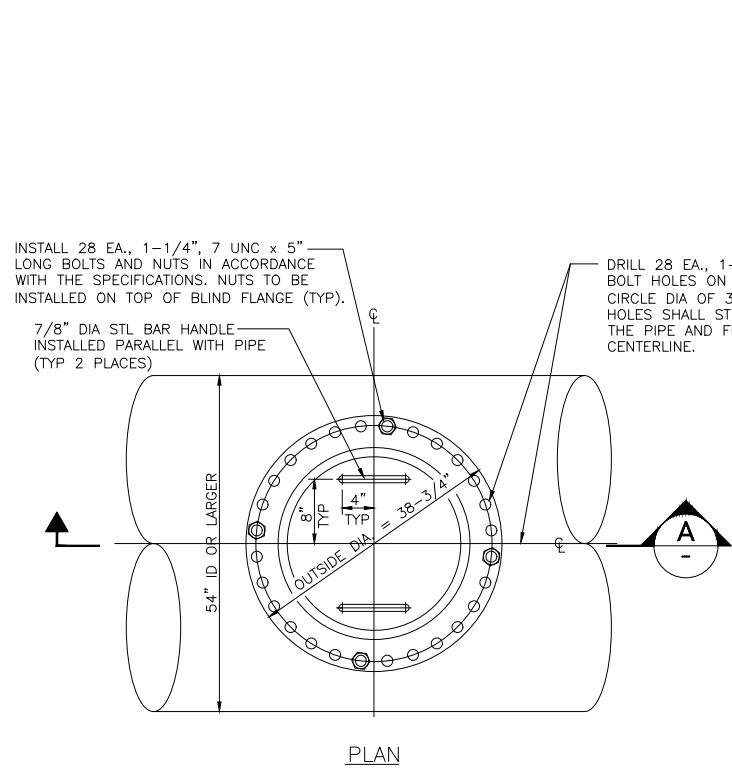


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SCALE	DRAWING NO.
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VERT: N/A	SHT. 44 OF 61
FIELD BOOK	L-2272

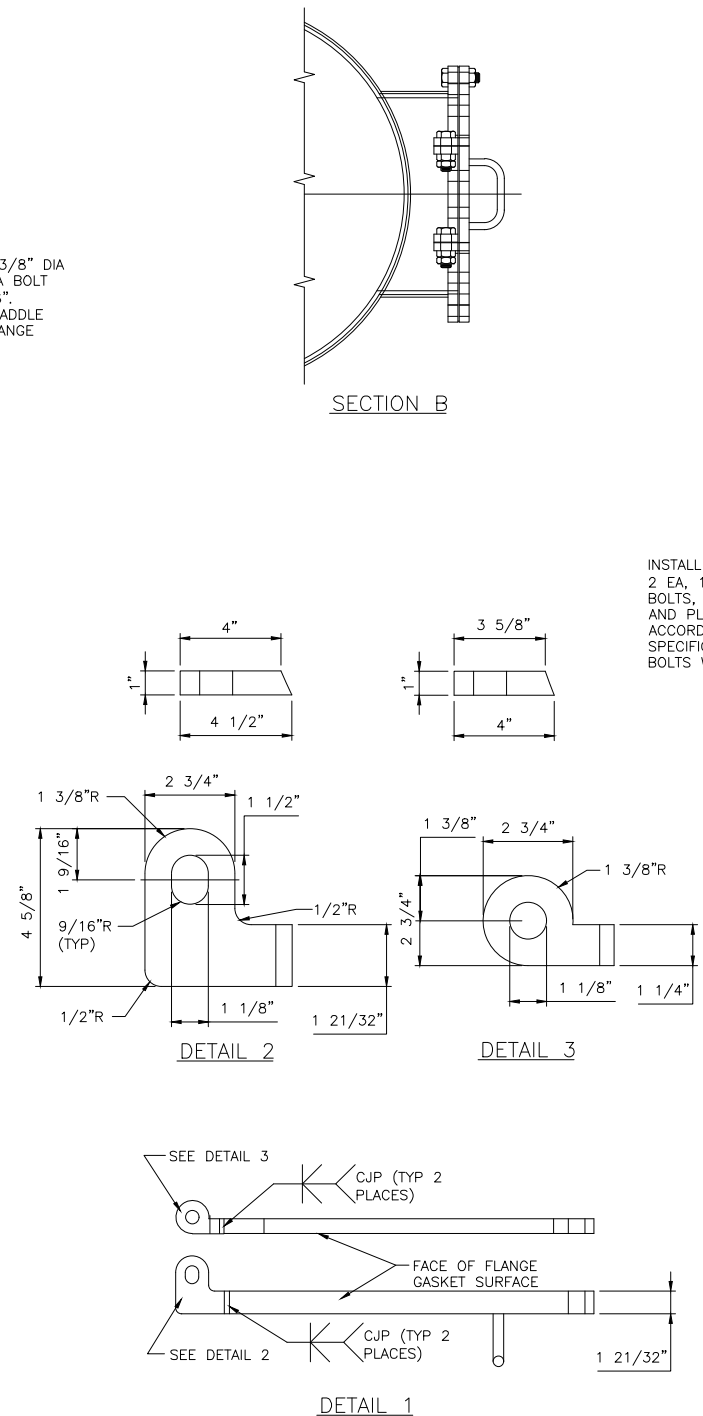
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

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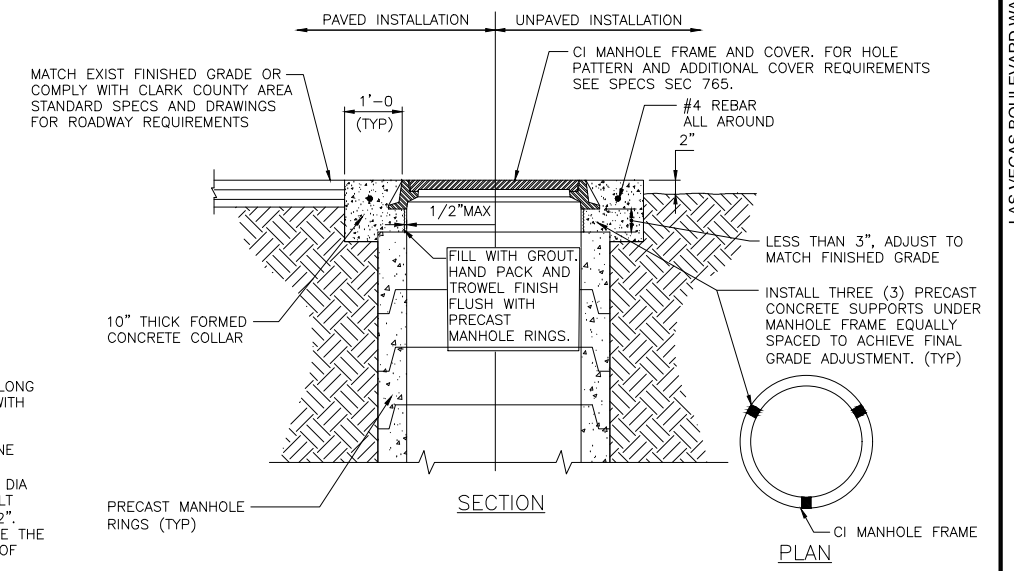
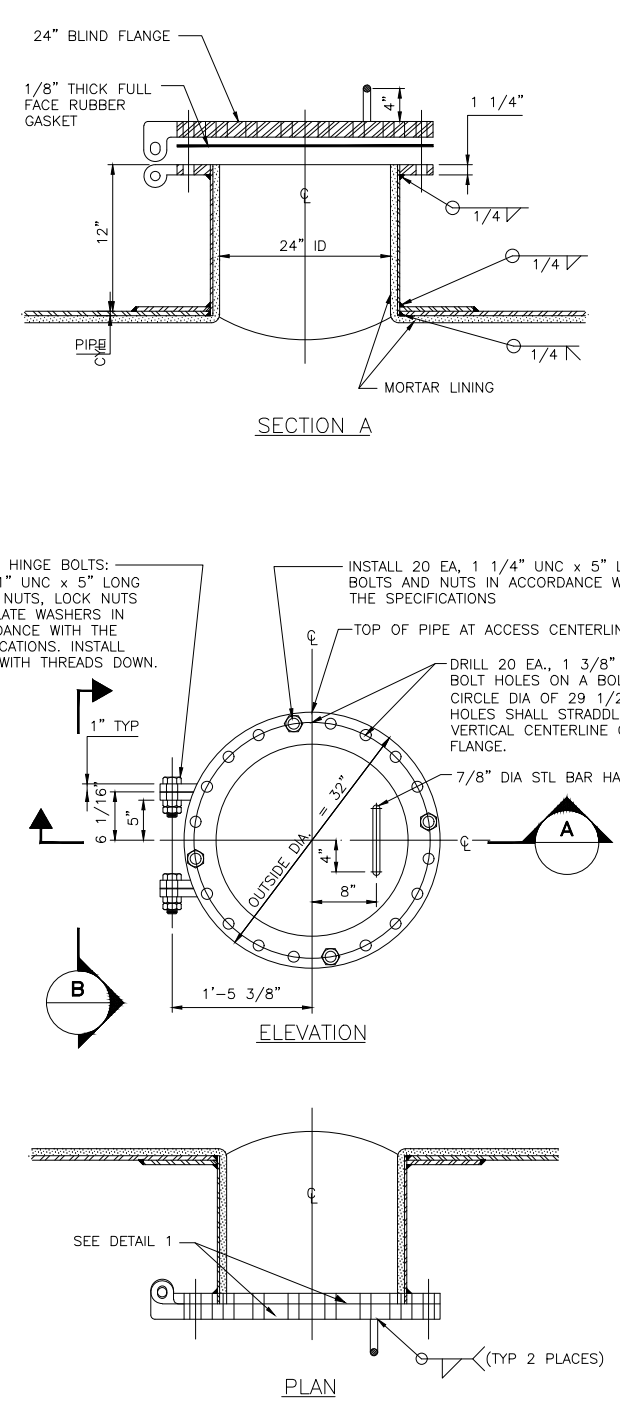
**30-INCH PIPE ACCESS MANWAY**  
 NOT TO SCALE PL08-2A 072315 **1**  
 WDB

NOTES:  
 1. STANDARD BLIND FLANGE CLASS "D" (2.003" THICK) PER AWWA C207-94.  
 2. SEE SPECS SEC 752 FOR MORTAR LINED AND COATED STEEL PIPE

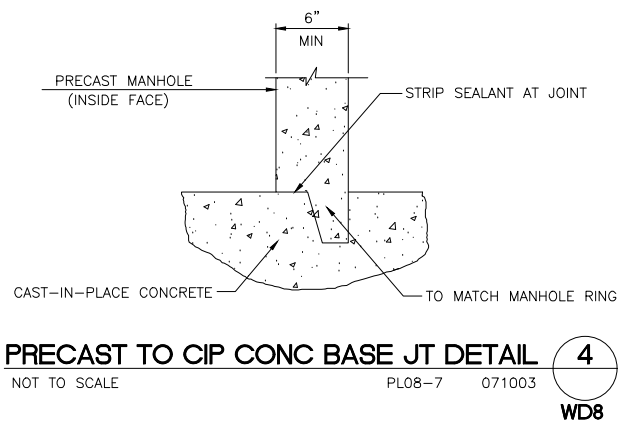


**24-INCH VAULT ACCESS MANWAY**  
 NOT TO SCALE PL08-3 061119 **2**  
 WD4

NOTES:  
 1. STANDARD BLIND FLANGE PER AWWA C207-94.  
 2. SEE SPECS SEC 752 FOR MORTAR LINED AND COATED STEEL PIPE.



**MANHOLE COVER AND COLLAR INSTALLATION**  
 NOT TO SCALE PL08-4 020619 **3**  
 WDB



**PRECAST TO CIP CONC BASE JT DETAIL**  
 NOT TO SCALE PL08-7 071003 **4**  
 WDB

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PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

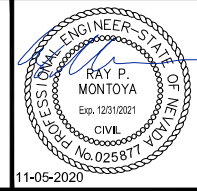
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - MAIN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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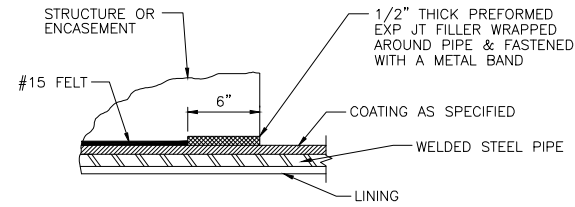
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VERT:	N/A	
FIELD BOOK		SHT. 45 OF 61
		L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

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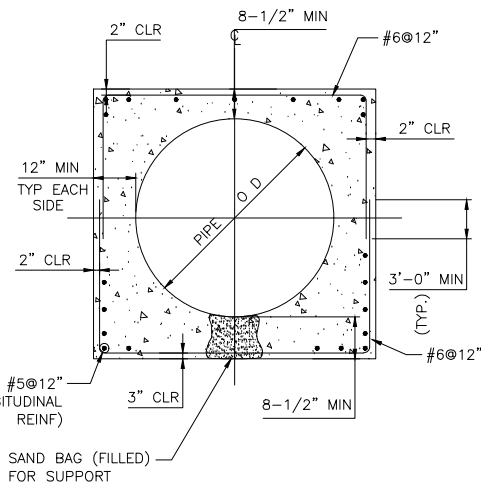
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



**TYPICAL AT ENDS OF ACCESS MANHOLE STRUCTURES AND ENCASUREMENTS** 1

NOT TO SCALE PLO8-8 030308

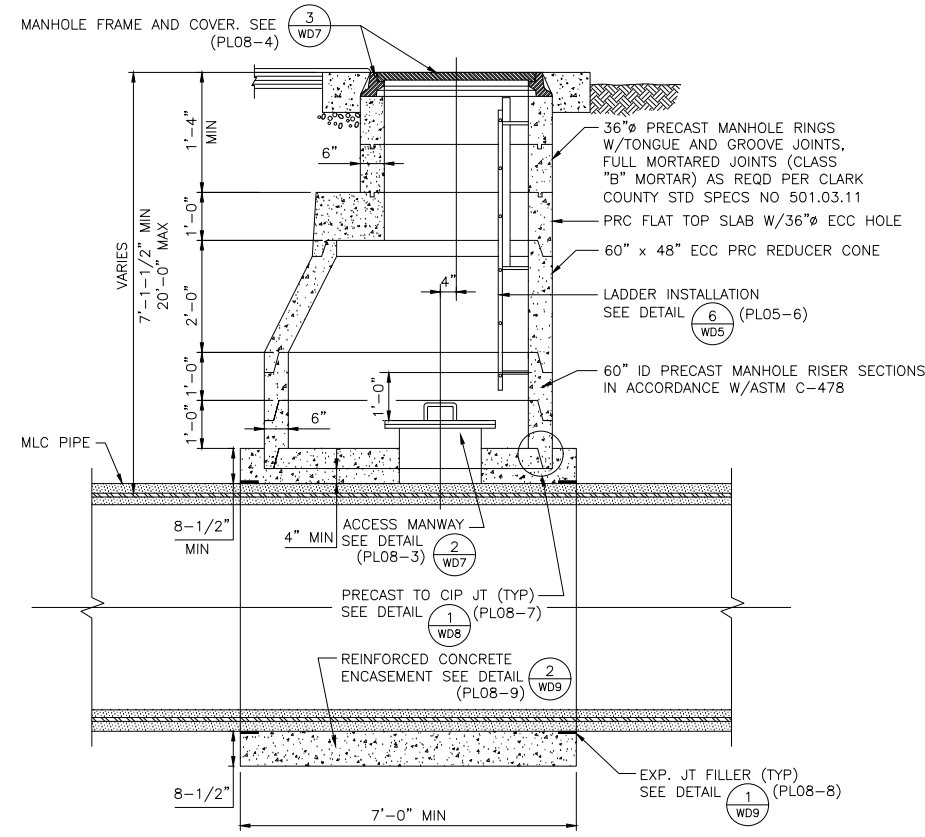
WD8



**ACCESS MANHOLE ENCASUREMENT** 2

NOT TO SCALE PLO8-9 090419

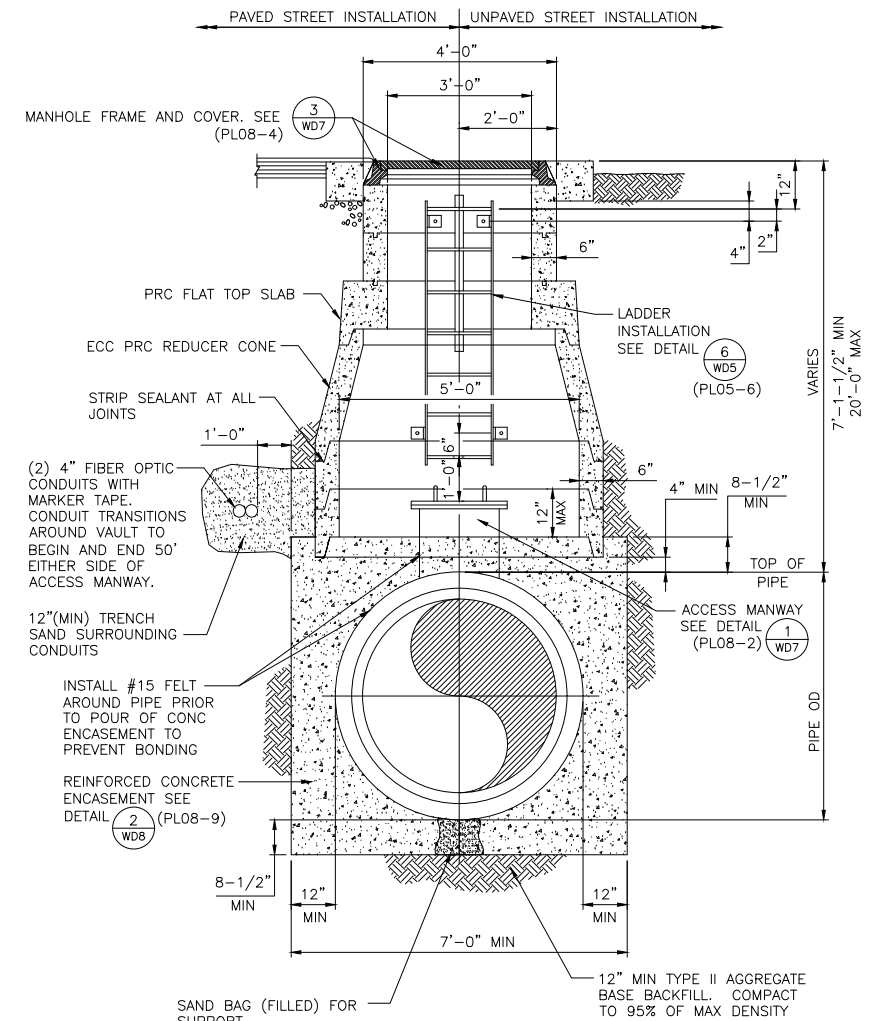
WD8



**SECTION** 3

NOT TO SCALE PLO8-A 071003

W1-W4,W6-W8



**SECTION** 4

NOT TO SCALE PLO8-B 090419

W1-W4,W6-W8

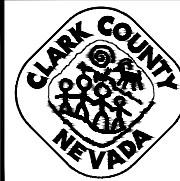
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PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

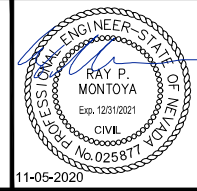
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**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - MAIN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



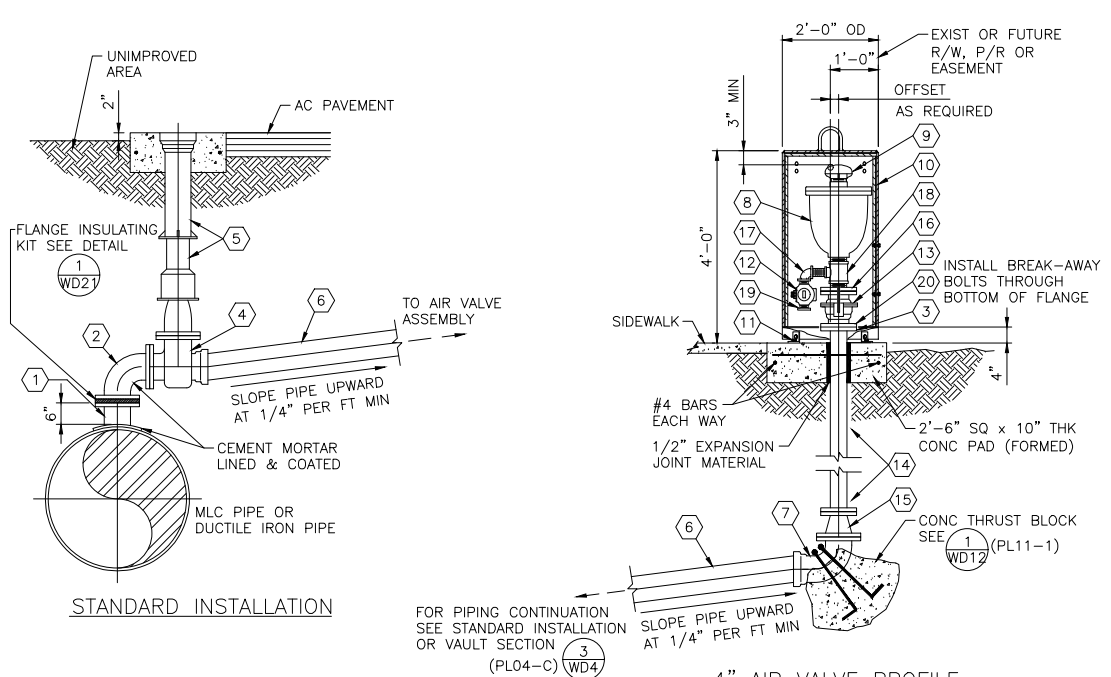
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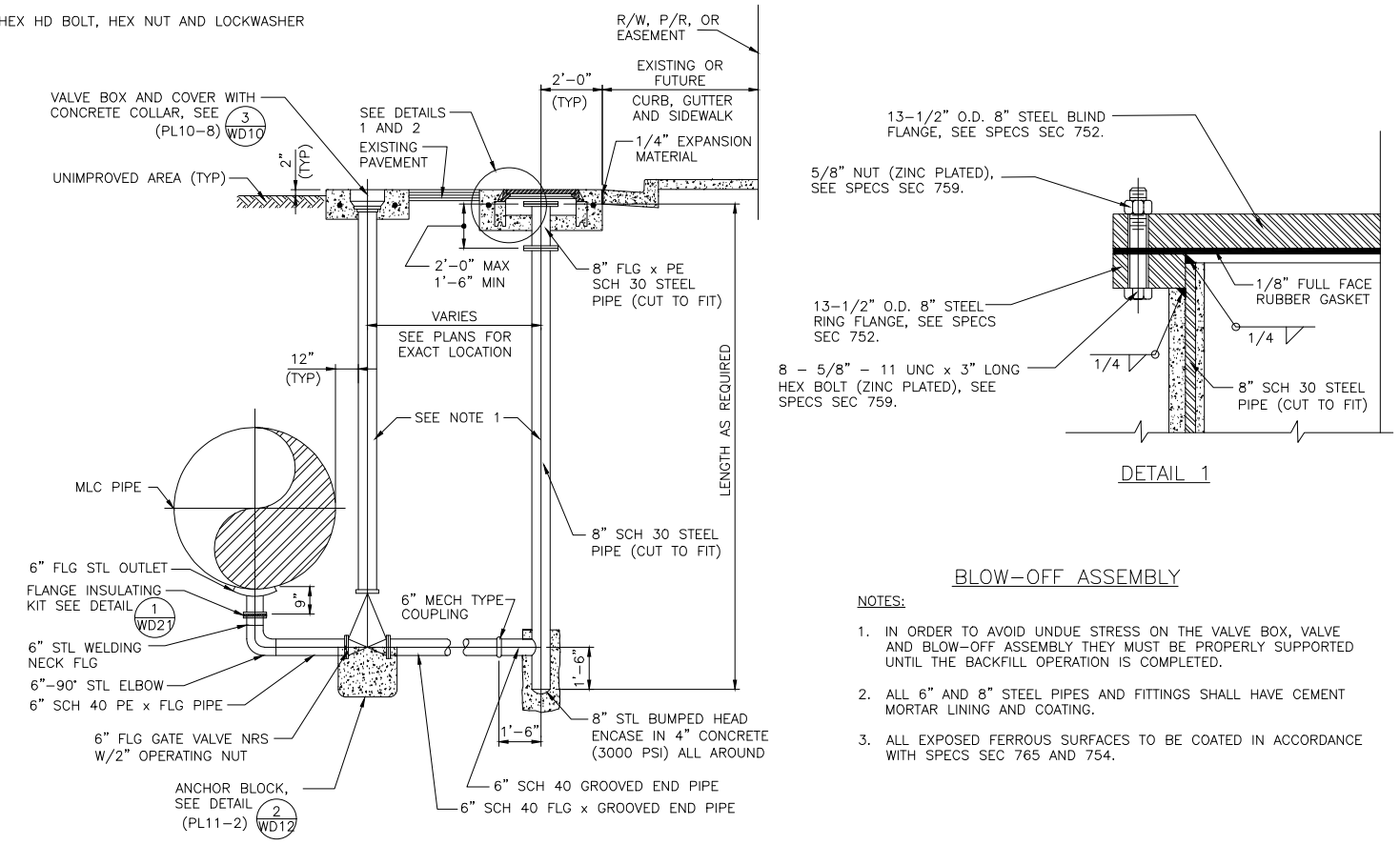
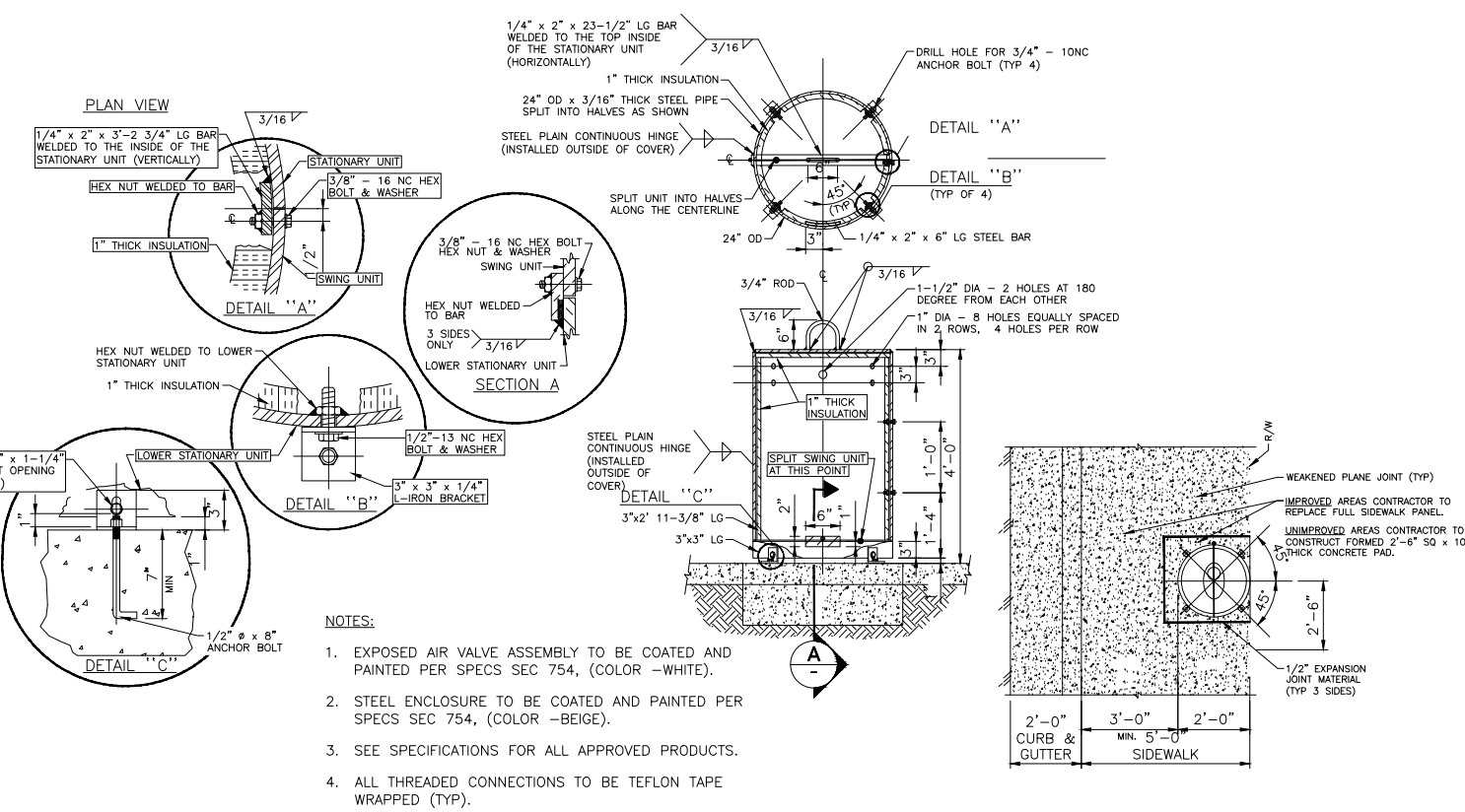
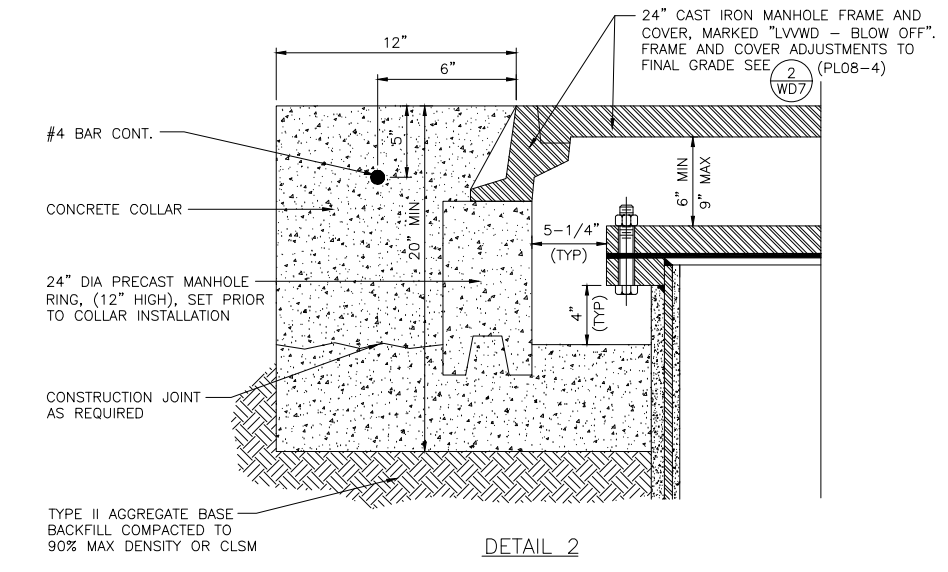
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	VERT: N/A		SHT. 46 OF 61
FIELD BOOK			L-2272



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- LEGEND**
- (1) 6" FLG STL OUTLET FOR MLC STPIPE, FLG TEE FOR DIP
  - (2) 6"- 90° FLG DUCTILE IRON BEND
  - (3) 4" DUCTILE IRON FLANGE ADAPTOR
  - (4) 6" FLG x PO OR FLG x MJ GATE VALVE W/2" OPERATING NUT
  - (5) VALVE BOX AND COVER - SEE DETAIL (4) (WD10) (PL10-8)
  - (6) 6" DUCTILE IRON PC350 PIPE OR 6" PVC CL150 DR18 PIPE
  - (7) 6" - 90° FLG x PO OR FLG x MJ DI BEND
  - (8) 4" AIR VALVE, FLANGED INLET
  - (9) 4" MUSHROOM VENT CAP WITH #22/24 STAINLESS STEEL MESH SCREEN
  - (10) 2'-0" OD x 4'-0" HIGH STEEL COVER
  - (11) 1/2" x 8" ANCHOR BOLT
  - (12) 2" CORP STOP, THREADED BOTH ENDS
  - (13) 4" BALL VALVE - QUARTER TURN
  - (14) 4" DUCTILE IRON PC350 PIPE
  - (15) 6" x 4" FLG x FLG DI REDUCER
  - (16) 4" x 2" THREADED REDUCING FLANGE
  - (17) 2" 90° ELBOW, THREADED W/ THREADED NIPPLES
  - (18) 4" x 2" BRASS TEE, THREADED INLETS W/ THREADED NIPPLES
  - (19) THREADED CAP
  - (20) 5/8"-11NC BREAK-AWAY ZINC PLATED HEX HD BOLT, HEX NUT AND LOCKWASHER



- NOTES:**
- IN ORDER TO AVOID UNDUE STRESS ON THE VALVE BOX, VALVE AND BLOW-OFF ASSEMBLY THEY MUST BE PROPERLY SUPPORTED UNTIL THE BACKFILL OPERATION IS COMPLETED.
  - ALL 6" AND 8" STEEL PIPES AND FITTINGS SHALL HAVE CEMENT MORTAR LINING AND COATING.
  - ALL EXPOSED FERROUS SURFACES TO BE COATED IN ACCORDANCE WITH SPECS SEC 765 AND 754.

**AIR VALVE ASSEMBLY FOR 4" VALVES (STEEL ENCLOSURE)**

1

W24-W30

NOT TO SCALE

**BLOW-OFF ASSEMBLY AND COVER DETAIL**

2

NOT TO SCALE

PL09-2 072315

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PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

W31, W32

NO.	REVISIONS	DATE

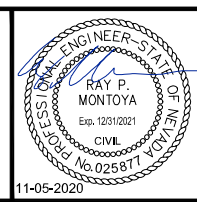
**CLARK COUNTY**

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**CIVIL DETAILS - MAIN**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

11-05-2020



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

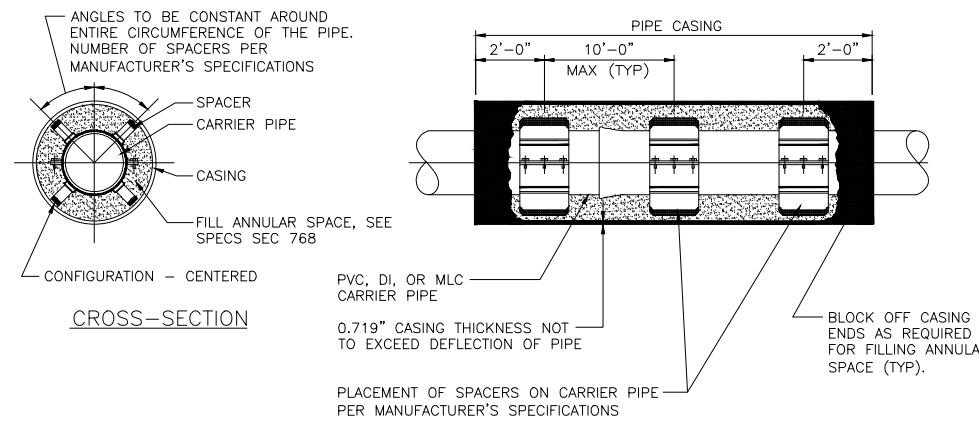
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SCALE	DRAWING NO.
HORIZ: N/A	WD-9
VERT: N/A	SHT. 47 OF 61
FIELD BOOK	L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

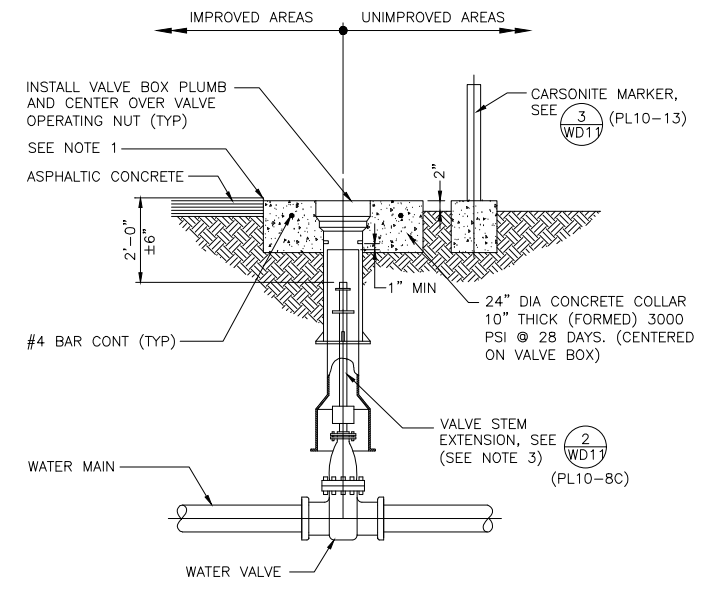
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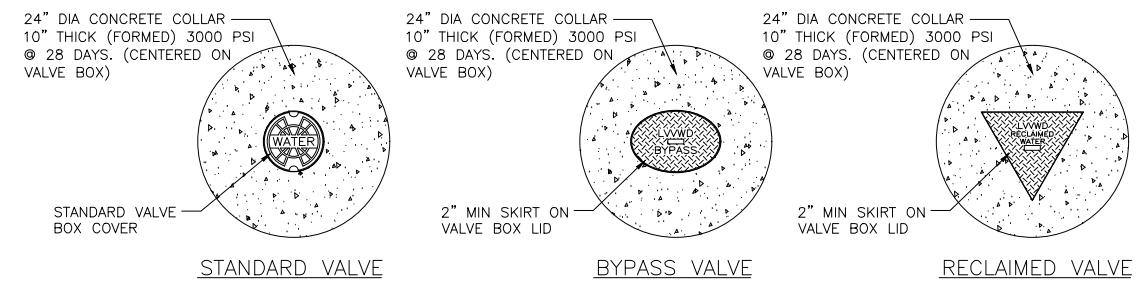
- NOTES:**
1. MLC PIPE JOINTS INSIDE PIPE CASING TO BE WELDED. PVC AND DI PIPE JOINTS INSIDE PIPE CASING TO BE RESTRAINED (TYP).
  2. INTERIOR OF CASING TO BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.
  3. ALL FIBER OPTIC CONDUITS AND FITTINGS INSTALLED WITHIN CASING IN ACCORDANCE WITH SPECIFICATIONS.
  4. ENTIRE PIPE CASING TO BE INSTALLED LEVEL (6"±) UNLESS OTHERWISE SHOWN ON DRAWINGS. SEE SPECS SEC 768 FOR FURTHER REQUIREMENTS.

MLC CARRIER PIPE	
8" SPACER WIDTH	PIPE SIZE   CASING ID
	36"   54"

**CASING ASSEMBLY DETAIL** 1  
NOT TO SCALE  
W4,W9

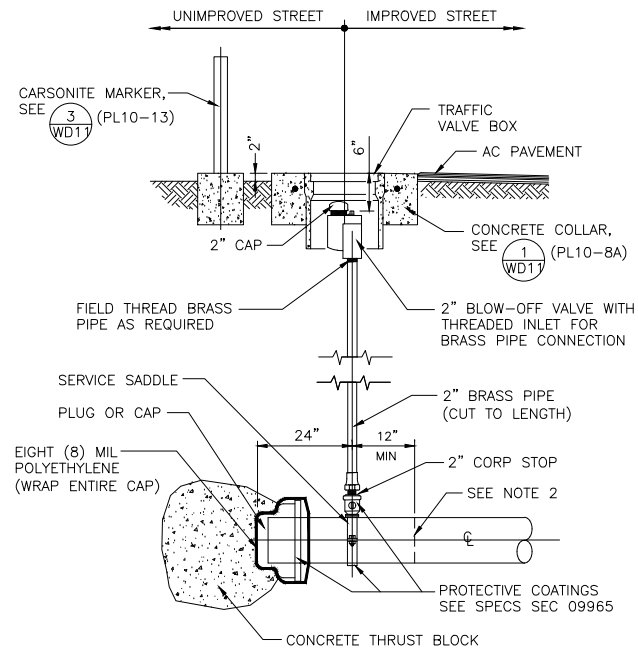


- NOTES:**
1. FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
  2. MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE VALVE BOX INSTALLATION LOCATION.
  3. A VALVE STEM EXTENSION SHALL BE PROVIDED WHERE THE DEPTH TO THE OPERATING NUT EXCEEDS FIVE (5) FEET.
  4. CONTRACTOR TO FORM CONCRETE COLLAR IN UNIMPROVED AREAS WITH SONOTUBE AND REMOVE PRIOR TO BACKFILL INSTALLATION (TYP).
  5. SEE SPECIFICATIONS FOR ALL APPROVED PRODUCTS.



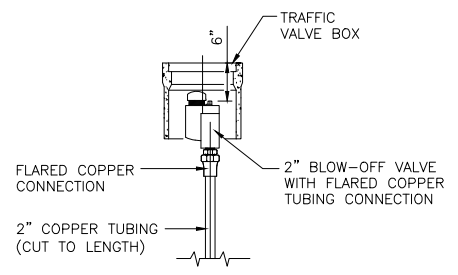
- NOTES:**
1. INSTALL VALVES CLOSED AND OPEN DURING TEST.
  2. COAT AND WRAP OUTLET, VALVE AND PLUG. SEE SPECS SECTION 765 AND 760.
  3. OUTLET REINFORCEMENT SHALL BE DETERMINED PER AWWA M11 DESIGN METHOD.

**VALVED OUTLET DETAIL** 4  
NOT TO SCALE PL10-5 072715  
W3,W5,W6-W10



- NOTES:**
1. ALL COPPER TUBING AND BRASS PIPE SHALL BE WRAPPED WITH TWO LAYERS OF SIX (6) MIL POLYETHYLENE AND BACKFILLED ALL AROUND WITH 4" MINIMUM OF SAND.
  2. CUT AND REMOVE EXISTING PIPE 12" MIN BEYOND EXISTING BLOW-OFF SERVICE SADDLE PRIOR TO CONNECTING TO EXISTING PIPELINES.

**MANUAL AIR RELEASE ASSEMBLY** 2  
NOT TO SCALE PL10-4 070208  
WD10



**VALVE BOX INSTALLATION** 3  
NOT TO SCALE PL10-8 061119  
W11,W19,W22,W23

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DSHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

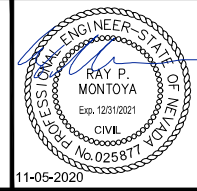
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - MAIN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



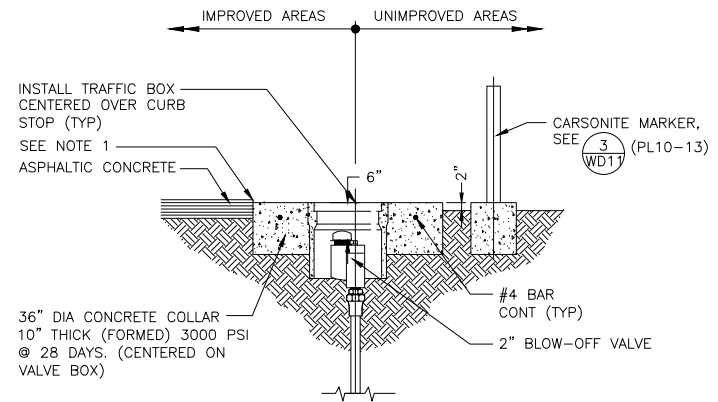
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
APPROVED BY: \_\_\_\_\_

**Kimley»Horn**  
6671 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

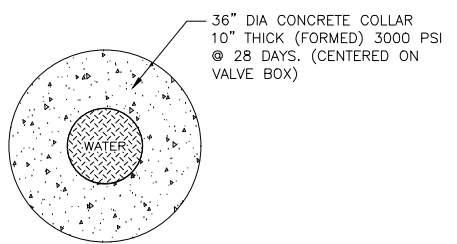
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HORIZ:	N/A	WD-10
VERT:	N/A	
FIELD BOOK		SHT. 48 OF 61
		L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

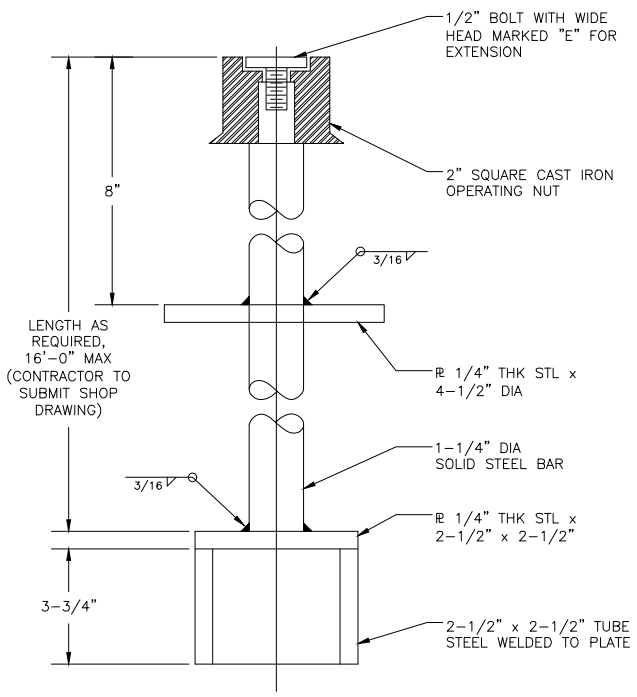
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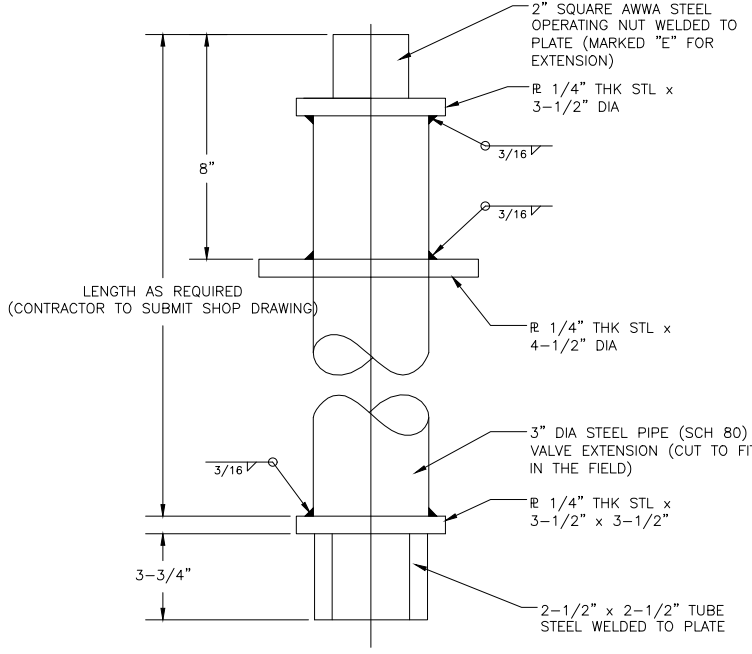
- NOTES**
1. FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
  2. MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE TRAFFIC BOX INSTALLATION LOCATION.
  3. CONTRACTOR TO FORM CONCRETE COLLAR IN UNIMPROVED AREAS WITH SONOTUBE AND REMOVE PRIOR TO BACKFILL INSTALLATION (TYP).
  4. SEE SPECIFICATIONS FOR ALL APPROVED PRODUCTS.



**TRAFFIC BOX INSTALLATION** 1  
 NOT TO SCALE PL10-8A 070208  
 WD10



**STEM EXTENSIONS 16' AND LESS**

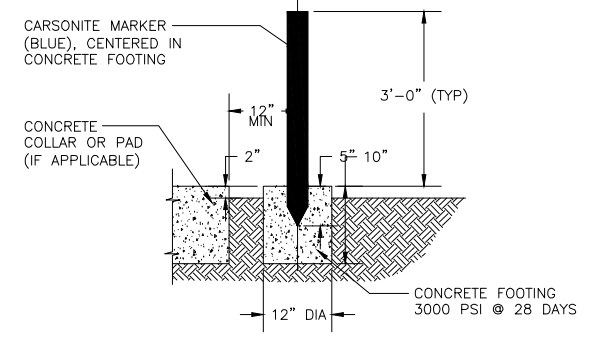


**STEM EXTENSIONS GREATER THAN 16'**

- NOTES:**
1. HOT DIP GALVANIZE AFTER FABRICATION.
  2. CONTRACTOR TO SUBMIT SHOP DRAWINGS (TYP)

**VALVE STEM EXTENSION** 2  
 NOT TO SCALE PL10-8C 110309

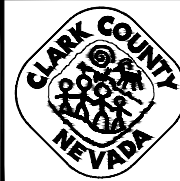
W3,W5-W11,W19,W22,W23



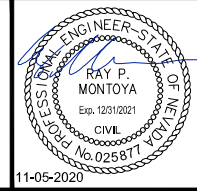
**NOTE:**  
SEE SPECIFICATIONS FOR ALL APPROVED PRODUCTS.

**CARSONITE MARKER INSTALLATION** 3  
 NOT TO SCALE PL10-13 091406  
 WD10,WD11

NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CIVIL DETAILS - MAIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: \_\_\_\_\_

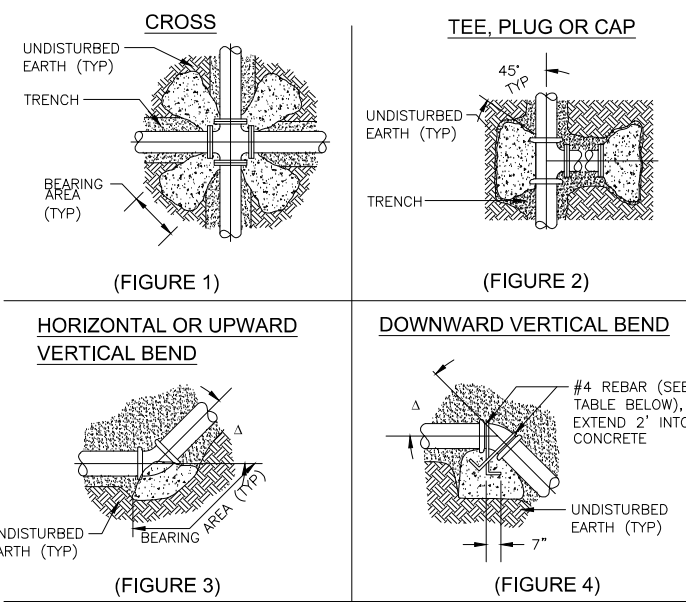
**Kimley»Horn**  
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SCALE	HORIZ: N/A	DRAWING NO.
VERT: N/A	FIELD BOOK	WD-11
		SHT. 49 OF 61
		L-2272

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



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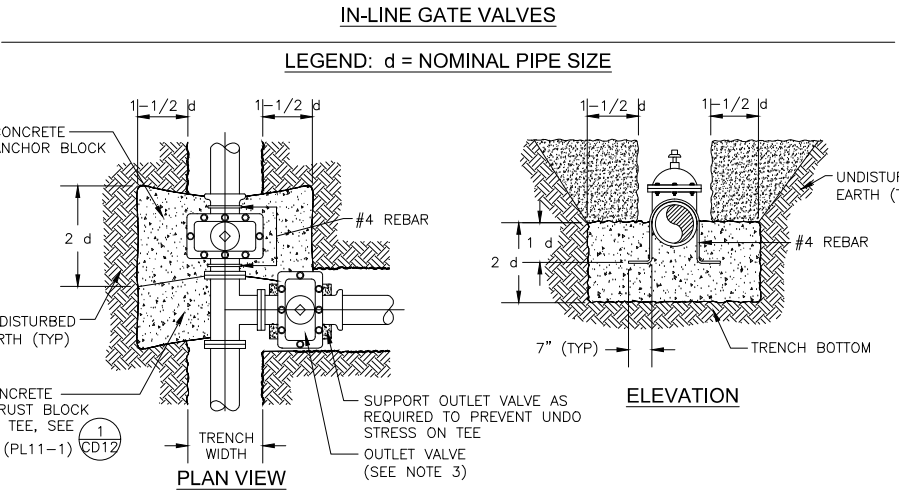
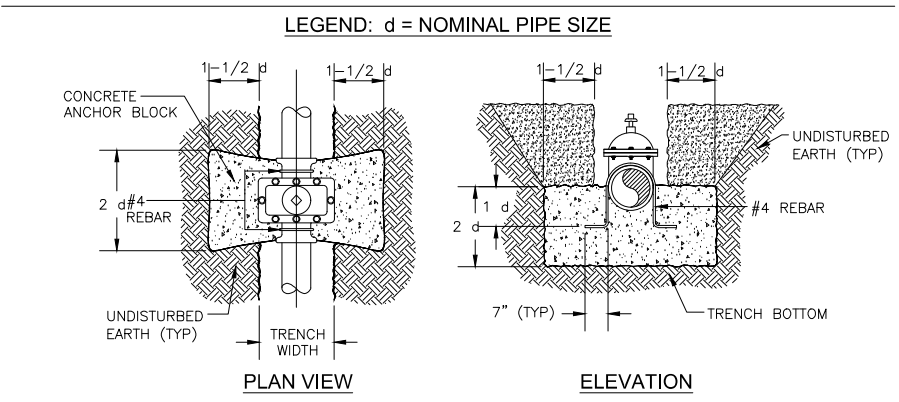
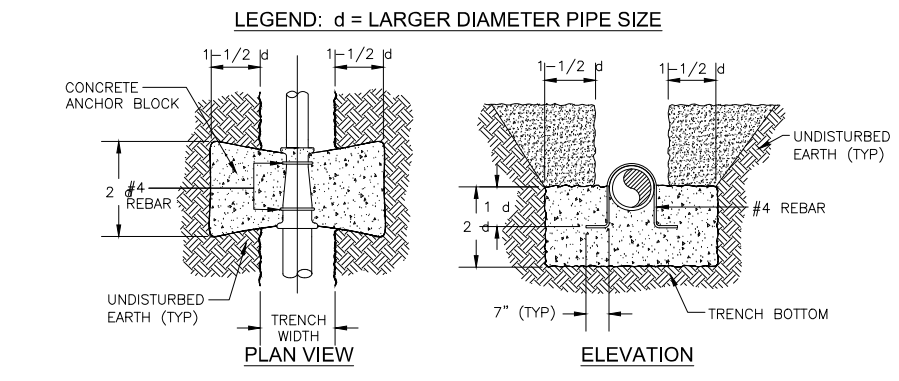
**NOTE:**  
 COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH SECTION 754, PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED AGAINST UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED TO LVVWD FOR APPROVAL IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

PIPE ID	BEARING AREA IN SQ FT						CONC/CU YDS		
	FIGURE 1	FIGURE 2	FIGURE 3, Δ	FIGURE 3, Δ	FIGURE 3, Δ	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 4, Δ	FIGURE 4, Δ
4"	1	2	90'	45'	22 1/2'	11 1/4'	45'	22 1/2'	11 1/4'
6"	2	3	2	2	1	1	1.0	0.5	0.5
8"	2	3	4	2	1	1	1.5	1.0	0.5
10"	3	5	7	4	2	1	3.0	1.5	1.0
12"	4	8	11	6	3	2	4.0	2.5	1.5
16"	6	11	15	8	4	2	6.0	3.0	1.5
18"	10	20	28	15	8	4	10.5 *	6.0	3.0
20"	13	25	35	19	10	5	13.5 *	7.5	3.5
24"	16	31	44	24	12	6	16.0 **	9.0	4.5
	22	44	63	34	17	9	23.5 **	12.5 *	6.5

\* #5 REBAR \*\* #6 REBAR

**NOTE:**  
 USE OF THRUST BLOCKS FOR PIPE DIAMETERS GREATER THAN 12" REQUIRES PRIOR DISTRICT APPROVAL AND WILL BE EVALUATED ON A CASE BY CASE BASIS.

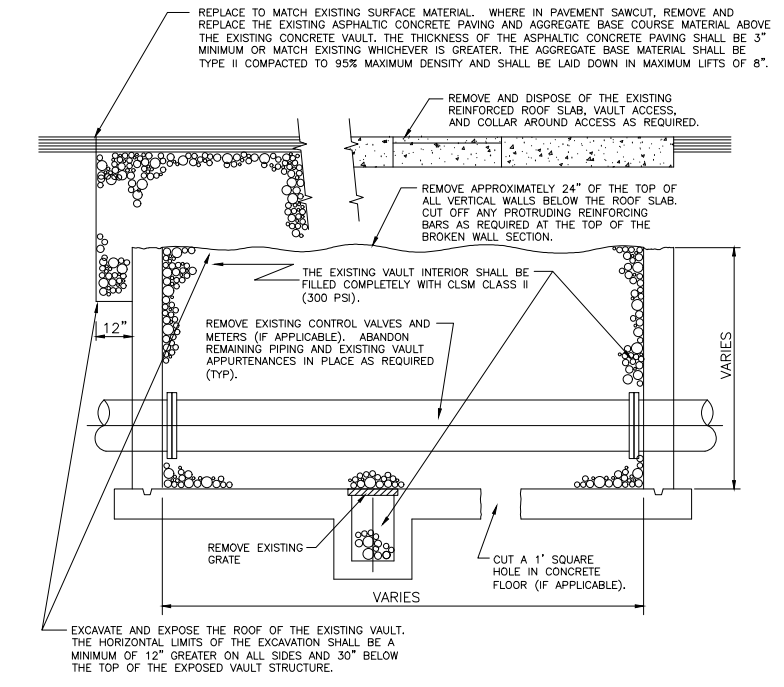
**THRUST BLOCK INSTALLATION 1**  
 NOT TO SCALE PL11-1 072715  
 W15, W19-W23



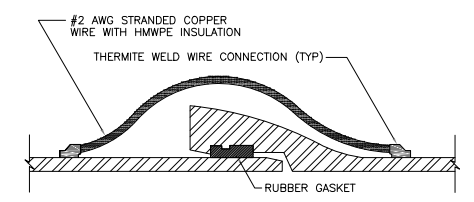
**TEE GATE VALVES**

**NOTES:**  
 1. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS COMPRESSIVE STRENGTH.  
 2. ALL VALVES AND EXPOSED REBAR TO BE COATED AND WRAPPED IN ACCORDANCE WITH SECTION 754, PROTECTIVE COATINGS.  
 3. WHEN PIPE IS INSTALLED BETWEEN TEE AND OUTLET VALVE AN ADDITIONAL CONCRETE ANCHOR BLOCK WILL BE REQUIRED ON THE OUTLET VALVE.

**ANCHOR BLOCK DETAILS FOR REDUCERS AND GATE VALVES 2**  
 NOT TO SCALE PL11-2 072715  
 WD4, WD9



**EXISTING VAULT STRUCTURE ABANDONMENT 3**  
 NOT TO SCALE PL18-1 111003



**NOTE:**  
 INSTALL TWO BOND WIRES AT EACH PIPE JOINT. MAXIMUM LENGTH OF BOND WIRES IS 21-INCHES FOR 12-INCH DIAMETER AND SMALLER PIPE, USE #4 AWG BOND CABLES

**PUSH-ON JOINT BOND DETAIL DUCTILE IRON PIPE 4**  
 NOT TO SCALE PL12-9 070703

**LVVWD APPROVAL**

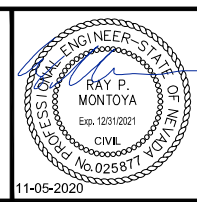
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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

NO.	REVISIONS	DATE

**CLARK COUNTY**  
 LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)  
 CIVIL DETAILS - MAIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



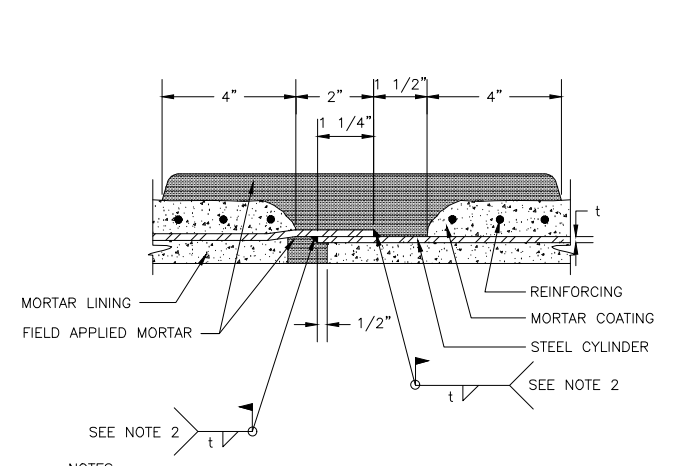
PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

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SCALE	DRAWING NO.
HORIZ: N/A	WD-12
VERT: N/A	SHT. 50 OF 61
FIELD BOOK	L-2272

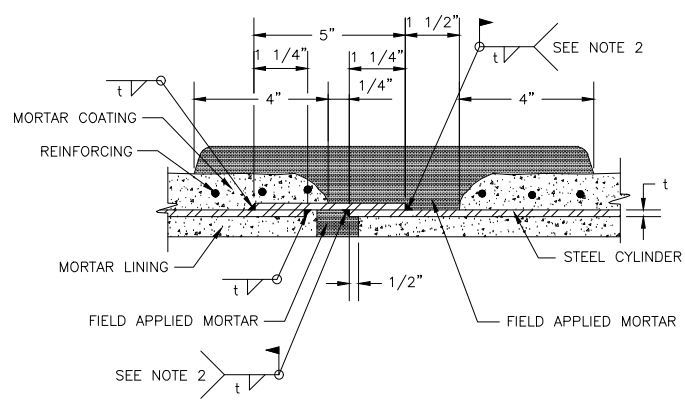
User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd\CAD\LVB Phase B Water Plans\50-52\_CD11-CD13.dwg /  
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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



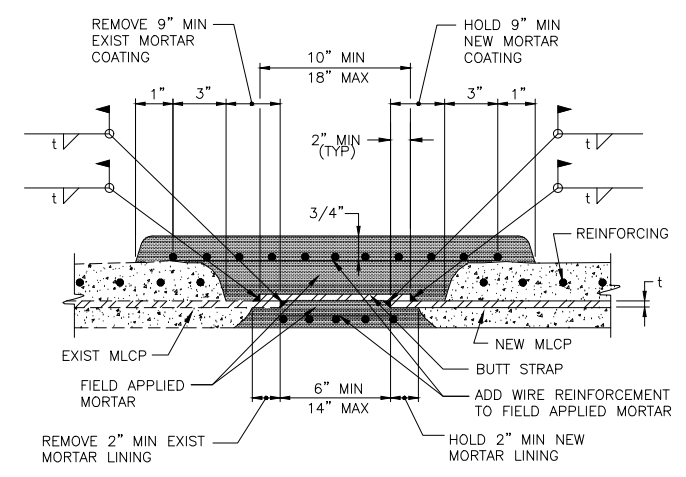
- NOTES:**
- SEE SPECS SEC 752 FOR MORTAR LINED AND COATED STEEL PIPE.
  - WELD OUTSIDE ON PIPE SMALLER THAN 36". WELD INSIDE ON PIPE GREATER THAN OR EQUAL TO 36", UNLESS APPROVED BY ENGINEER.

**LAP - WELDED SLIP JOINT  
ALTERNATE "A" FIELD WELDED** 1  
 NOT TO SCALE PL01-1 072315  
 W1-W10,W15



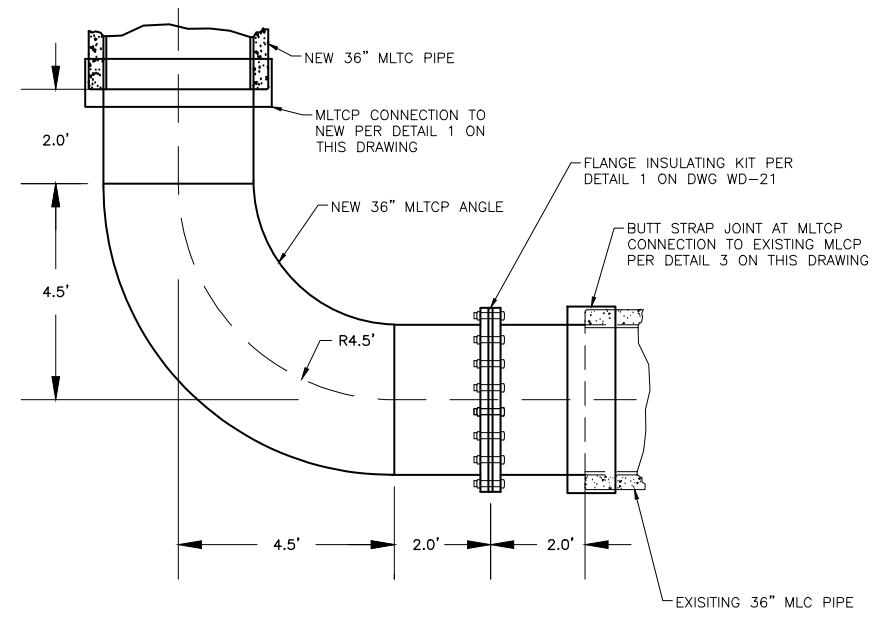
- NOTES:**
- SEE SPECS SEC 752 FOR MORTAR LINED AND COATED STEEL PIPE.
  - WELD OUTSIDE ON PIPE SMALLER THAN 36". WELD INSIDE ON PIPE GREATER THAN OR EQUAL TO 36", UNLESS APPROVED BY ENGINEER.

**LAP - WELDED SLIP JOINT  
ALTERNATE "B" FIELD WELDED** 2  
 NOT TO SCALE PL01-2 072315  
 W1-W10,W15

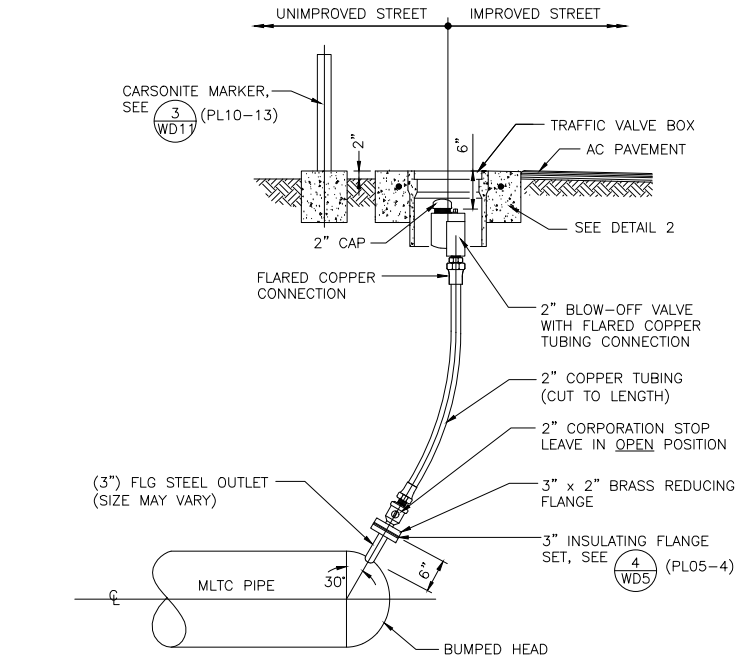
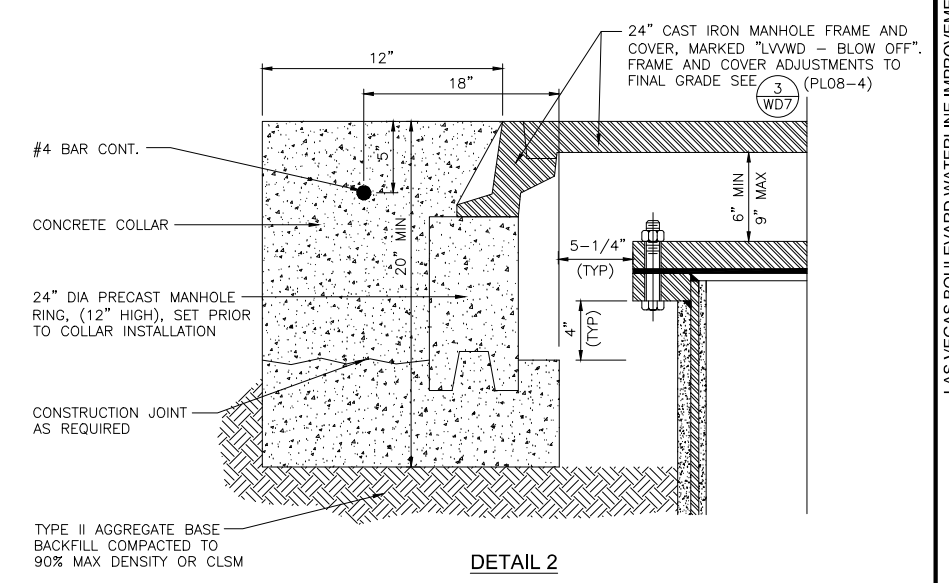


- NOTE:**  
SEE SPECS SEC 752 FOR MORTAR LINED AND COATED STEEL PIPE.

**BUTT STRAP JOINT AT MLCP  
CONNECTIONS TO EXISTING MLCP** 3  
 NOT TO SCALE PL01-6 072315  
 W15



**LONG RADIUS 90° HORIZONTAL ANGLE** 4  
 1/2" = 1'  
 W3,W15



- NOTE:**  
ALL COPPER TUBING AND BRASS PIPE SHALL BE WRAPPED WITH TWO LAYERS OF SIX (6) MIL POLYETHYLENE AND BACKFILLED ALL AROUND WITH 4" MINIMUM OF SAND.

**MANUAL AIR RELEASE ASSEMBLY  
(MLTC PIPE)** 5  
 NOT TO SCALE  
 W10

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

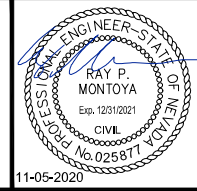
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CIVIL DETAILS - MAIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

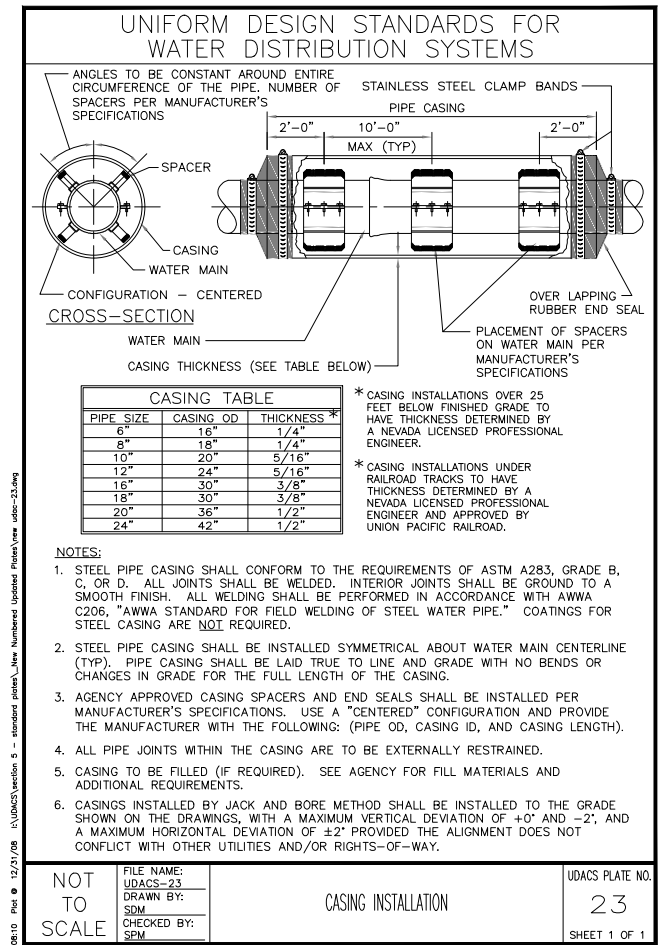
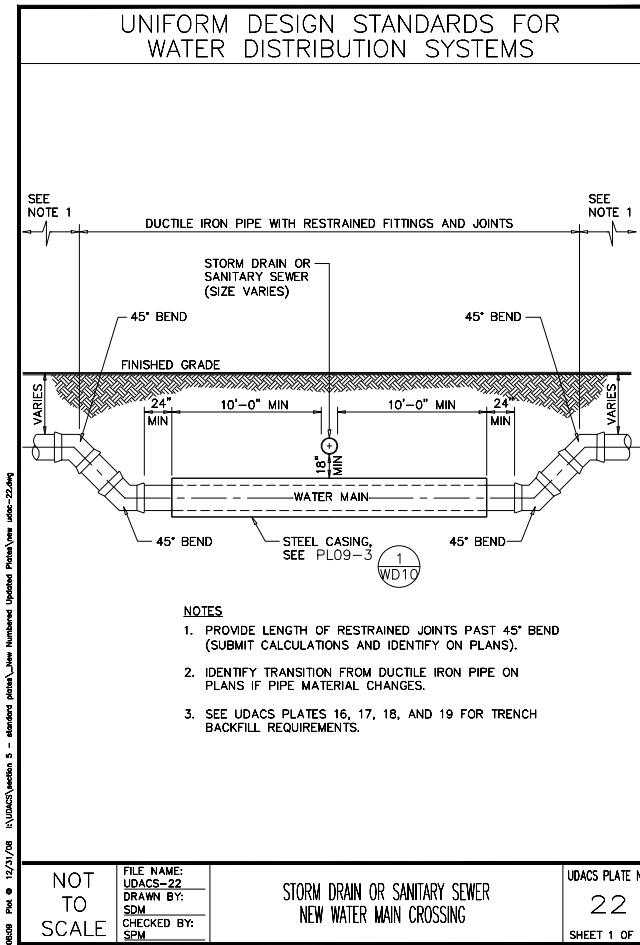
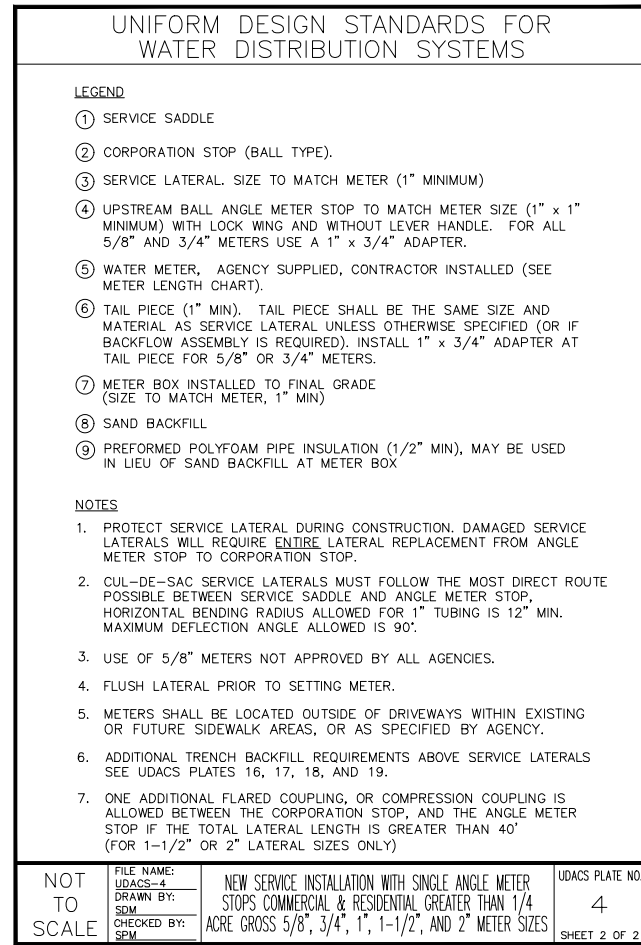
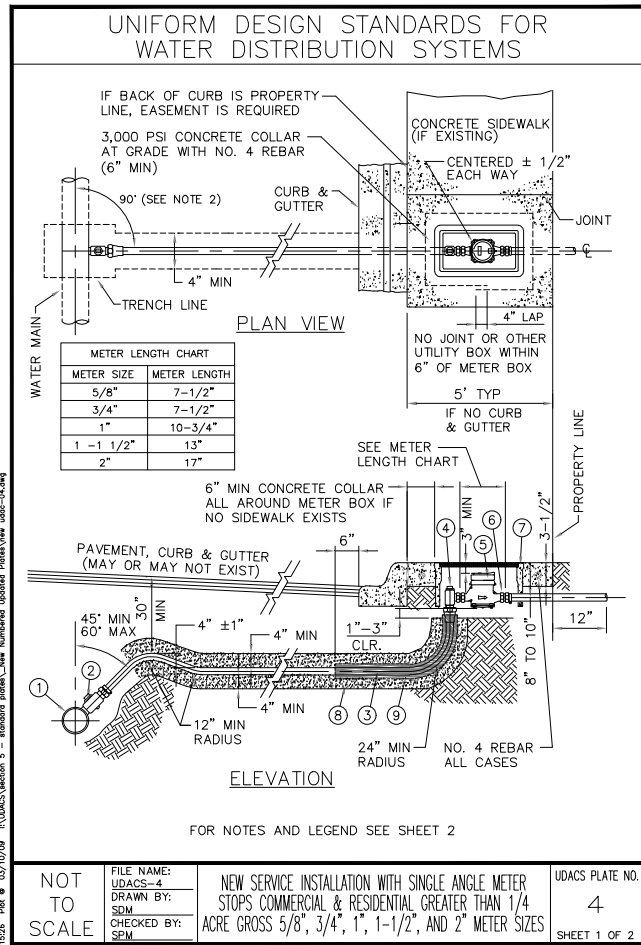


PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_  
**Kimley Horn**  
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SCALE	HORIZ: N/A	DRAWING NO.
VERT: N/A	FIELD BOOK	WD-13
		SHT. 51 OF 61
		L-2272

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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



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APPROVED FOR CONSTRUCTION

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PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

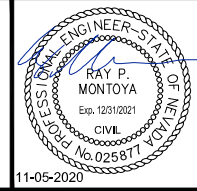
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK  
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
 APPROVED BY: \_\_\_\_\_

SCALE	HORIZ: N/A	<b>WD-14</b>	SHT. 52 OF 61
	VERT: N/A		
	FIELD BOOK		
			L-2272





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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

LEGEND: d = LARGER DIAMETER PIPE SIZE

LEGEND: d = NOMINAL PIPE SIZE

**NOT TO SCALE** | FILE NAME: UDACS-30 | DRAWN BY: SDM | CHECKED BY: SPM | ANCHOR BLOCK DETAILS FOR IN-LINE REDUCERS OR GATE VALVES 6" THROUGH 12" DIAMETER | UDACS PLATE NO. 30 | SHEET 1 OF 1

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

PIPE ID	BEARING AREA IN SQ FT				CONC/CU YDS		
	FIGURE 1	FIGURE 2	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 4, Δ	FIGURE 4, Δ	FIGURE 4, Δ
4"	2	2	2	1	1	1.0	0.5
6"	2	3	4	2	1	1.5	1.0
8"	3	5	7	4	2	3.0	1.5
10"	4	8	11	6	3	4.0	2.5
12"	6	11	15	8	4	6.0	3.0
						10.5	6.0
						13.5	7.5
						16.0	9.0
						23.5	12.5

**NOT TO SCALE** | FILE NAME: UDACS-31 | DRAWN BY: SDM | CHECKED BY: SPM | THRUST BLOCK INSTALLATION | UDACS PLATE NO. 31 | SHEET 1 OF 2

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**GENERAL NOTES:**

- VALVES, FITTINGS AND APPURTENANCES SHALL BE COATED AND WRAPPED IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS.
- EXPOSED (NOT ENCASED IN CONCRETE) REBAR SHALL BE WRAPPED IN 10 MIL DIELECTRIC TAPE.
- REBAR SHALL BE FORMED AND INSTALLED TO PROVIDE FULL CONTACT ON THE FITTING TO BE RESTRAINED.
- ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED AGAINST UNDISTURBED EARTH.
- THE TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED FOR APPROVAL IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF.
- ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.
- RESTRAINED JOINTS MAY BE UTILIZED IN LIEU OF THRUST BLOCKS WHEN IDENTIFIED ON THE PLANS BY THE ENGINEER AND APPROVED BY THE AGENCY.
- USE OF S' BENDS REQUIRES AGENCY APPROVAL AND CAN BE UTILIZED IN HORIZONTAL ORIENTATION ONLY.
- USE OF THRUST BLOCKS FOR PIPE DIAMETERS GREATER THAN 12" REQUIRES PRIOR AGENCY APPROVAL AND WILL BE EVALUATED ON A CASE BY CASE BASIS.

**NOT TO SCALE** | FILE NAME: UDACS-31 | DRAWN BY: SDM | CHECKED BY: SPM | THRUST BLOCK INSTALLATION | UDACS PLATE NO. 31 | SHEET 2 OF 2

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

ITEM	DESCRIPTION
1	TAPPING SLEEVE
2	GATE VALVE
3	COUPLING, COLLAR, FITTING, VALVE OR SERVICE SADDLE
4	CONCRETE THRUST BLOCK, SEE UDACS PLATE 31

**NOT TO SCALE** | FILE NAME: UDACS-34 | DRAWN BY: SDM | CHECKED BY: SPM | EXCAVATION FOR WET TAPS | UDACS PLATE NO. 34 | SHEET 1 OF 1

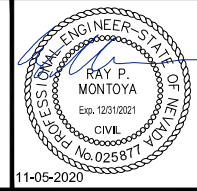
NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



**LVVWD APPROVAL**

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DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM  
APPROVED BY: \_\_\_\_\_

SCALE  
HORIZ: N/A  
VERT: N/A  
FIELD BOOK

DRAWING NO. **WD-15**  
SHT. 53 OF 61  
L-2272



User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000\_LasVegasBld\CADD\LVB Phase B Water Plans\55\_CD16.dwg /  
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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**EXISTING PIPE DATA:**

STEEL CYLINDER OD:	_____"
CYLINDER THICKNESS:	_____"
LINING THICKNESS:	_____"
COATING THICKNESS:	_____"
ROD THICKNESS: (IF APPLICABLE)	_____"

**\*\* AGENCY TO PROVIDE EXISTING PIPE DATA AND PRESSURE. ENGINEER TO SHOW ON PLANS**

**\*\* ACTUAL SIZE OF WRAPPER FITTING TO BE CALCULATED BY ENGINEER.**

FULL FABRICATED STEEL WRAPPER FITTING \_\_\_\_\_" x \_\_\_\_\_" (SEE NOTE 1) WITH \_\_\_\_\_" FLANGED OUTLET.

**NOT TO SCALE**

FILE NAME: UDACS-35	UDACS PLATE NO. 35
DRAWN BY: SDM	SHEET 1 OF 1
CHECKED BY: SPM	
WET TAP OF EXISTING STEEL MAINS	

0817 Rev. 03/10/09 LVUDACS\section 5 - standard plates\_New Numbered Plates\New UDACS-35.dwg

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**IMPROVED AREAS**      **UNIMPROVED AREAS**

AC PAVEMENT

36" DIA x 10" THICK CONCRETE COLLAR 3000 PSI @ 28 DAYS COMPRESSIVE STRENGTH SEE NOTE 2

#4 REBAR CONT.

PREFORMED POLYFOAM PIPE INSULATION (1/2" MIN), SEE NOTE 1

BRASS THREADED COUPLING

PLUG OR CAP

EIGHT (8) MIL POLYETHYLENE (WRAP ENTIRE CAP)

CONCRETE THRUST BLOCK PER UDACS PLATE NO. 31

36" DIA x 10" THICK CONCRETE COLLAR 3000 PSI @ 28 DAYS COMPRESSIVE STRENGTH

#4 REBAR CONT.

**PLAN**

**SECTION**

TRAFFIC VALVE BOX

2" AGENCY APPROVED VALVE (THREADED INLET FOR BRASS PIPE CONNECTION)

FIELD THREAD BRASS PIPE AS REQUIRED

2" BRASS PIPING (THRD x THRD) SEE NOTE 1

PIPE JOINT

2" CORP STOP, MALE IPT x FEMALE IPT (LEAVE IN OPEN POSITION)

SERVICE SADDLE

24" MIN

24" MIN

6" MIN

9" MAX

2"

**NOTES:**

- ALL BRASS PIPING SHALL BE BACKFILLED ALL AROUND WITH 4" MINIMUM OF SAND OR PREFORMED POLYFOAM PIPE INSULATION (1/2" MIN).
- FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
- MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE TRAFFIC VALVE BOX INSTALLATION LOCATION.
- CONTRACTOR TO FORM CONCRETE COLLAR IN UNIMPROVED AREAS WITH SONOTUBE OR EQUAL AND REMOVE PRIOR TO BACKFILL INSTALLATION (TYP).

**PLAN**

**NOT TO SCALE**

FILE NAME: UDACS-36	UDACS PLATE NO. 36
DRAWN BY: SDM	SHEET 1 OF 1
CHECKED BY: SPM	
2" MANUAL BLOW-OFF ASSEMBLY FOR P.V.C. OR D.I. PIPE	

**NOT TO SCALE**

FILE NAME: UDACS-39	UDACS PLATE NO. 39
DRAWN BY: SDM	SHEET 1 OF 1
CHECKED BY: SPM	
VALVE BOX INSTALLATION & ADJUSTMENT	

0823 Rev. 03/10/09 LVUDACS\section 5 - standard plates\_New Numbered Plates\New UDACS-36.dwg

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**IMPROVED AREAS**      **UNIMPROVED AREAS**

SEE NOTE 1

ASPHALTIC CONCRETE

#4 BAR CONT (TYP)

VALVE STEM EXTENSION, SEE NOTE 3

PIPELINE

24" DIA x 10" THICK CONCRETE COLLAR 3000 PSI @ 28 DAYS COMPRESSIVE STRENGTH

#4 BAR CONT (TYP)

4" MIN SKIRT ON VALVE BOX LID

**PLAN**

**SECTION**

INSTALL VALVE BOX PLUMB AND CENTER OVER VALVE OPERATING NUT (TYP)

24" DIA x 10" THICK CONCRETE COLLAR 3000 PSI @ 28 DAYS COMPRESSIVE STRENGTH

GATE VALVE, SEE NOTE 5

ANCHOR BLOCK, SEE UDACS PLATE 30

**NOTES:**

- FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
- MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE VALVE BOX INSTALLATION LOCATION.
- A VALVE STEM EXTENSION SHALL BE PROVIDED TO WITHIN TWO FEET OF FINISHED GRADE WHERE THE DEPTH TO THE OPERATING NUT EXCEEDS FIVE FEET.
- CONTRACTOR TO FORM CONCRETE COLLAR IN UNIMPROVED AREAS WITH SONOTUBE OR EQUAL AND REMOVE PRIOR TO BACKFILL INSTALLATION (TYP).
- ALL GATE VALVES TO BE INSTALLED IN VERTICAL POSITION.

**NOT TO SCALE**

FILE NAME: UDACS-40	UDACS PLATE NO. 40
DRAWN BY: SDM	SHEET 1 OF 3
CHECKED BY: SPM	
FIRE HYDRANT INSTALLATION	

**NOT TO SCALE**

FILE NAME: UDACS-40	UDACS PLATE NO. 40
DRAWN BY: SDM	SHEET 1 OF 3
CHECKED BY: SPM	
FIRE HYDRANT INSTALLATION	

12-28 Rev. 03/10/09 LVUDACS\section 5 - standard plates\_New Numbered Plates\New UDACS-40.dwg

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**PAD DETAIL**

3'-0"

1'-6"

3000 PSI CONCRETE 6" TYP

1 - NO 4 CONTINUOUS REBAR

4" LAP

1/2" PREMOLDED EXPANSION JOINT WHERE FIRE HYDRANT PAD IS SET AGAINST EXISTING CONCRETE AND AROUND FIRE HYDRANT BARREL

**NOTE:** SEE SHEET 2 FOR LOCATION OF FIRE HYDRANTS, AND FIRE HYDRANT PADS.

**HYDRANT ASSEMBLY DETAIL**

A SUITABLE SAFETY OR BREAKING FLANGE SHALL BE PROVIDED

6" PVC OR DI PIPE (NO FITTINGS IN HYDRANT LATERAL UNDER CURB, GUTTER AND SIDEWALK)

VALVE BOX, SEE UDACS PLATE 39

1 - NO 4 CONTINUOUS REBAR

36" MIN 60" MAX

UNDISTURBED EARTH

2" MINIMUM 6" MAXIMUM

USE CLEAN 1/2"-2" GRAVEL FOR DRAIN ROCK

6" RESILIENT GATE VALVE (IN VERTICAL POSITION)

CONCRETE THRUST BLOCKS REQUIRED RESTRAINED JOINTS ALLOWED ONLY WITH PRIOR AGENCY APPROVAL

DO NOT COVER AUTOMATIC DRAIN VALVE (WEEP HOLES) WITH CONCRETE

**NOT TO SCALE**

FILE NAME: UDACS-40	UDACS PLATE NO. 40
DRAWN BY: SDM	SHEET 1 OF 3
CHECKED BY: SPM	
FIRE HYDRANT INSTALLATION	

**NOT TO SCALE**

FILE NAME: UDACS-40	UDACS PLATE NO. 40
DRAWN BY: SDM	SHEET 1 OF 3
CHECKED BY: SPM	
FIRE HYDRANT INSTALLATION	

12-28 Rev. 03/10/09 LVUDACS\section 5 - standard plates\_New Numbered Plates\New UDACS-40.dwg

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878      FIRST APPROVED DATE 3/2/2021

NO.	REVISIONS	DATE

## LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

11-05-2020

PROJECT No: 500-897-LV	DRAWN BY: GAG/KMT/JTK	SCALE	DRAWING NO.
DESIGNED BY: ROM/GAG	CHECKED BY: ALF/RPM/ROM	HORIZ: N/A	<b>WD-16</b>
APPROVED BY: _____		VERT: N/A	
		FIELD BOOK	SHT. 54 OF 61
		L-2272	

User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000-Las Vegas Blvd\CADD\LVB Phase B Water Plans\56\_CD17.dwg /  
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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**CONDITION A**

**CONDITION D**

**CONDITION B**

**CONDITION E**

**CONDITION C**

**CONDITION F**

**CONDITION G**

NOT TO SCALE	FILE NAME: UDACS-40 DRAWN BY: SDM CHECKED BY: SPM	<b>FIRE HYDRANT INSTALLATION</b> UDACS PLATE NO. <b>40</b> SHEET 2 OF 3
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### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**NOTES**

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE REQUIREMENTS AND APPROVED FIRE HYDRANT INSTALLATION GUIDES OF THE FIRE DEPARTMENT HAVING JURISDICTION.
- NO HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION FOR WALLS, FENCE, AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS CIRCUMFERENCE SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES. HYDRANTS MUST BE LOCATED A MINIMUM OF 6 FEET AWAY FROM THE BEGINNING OF A TURNING RADIUS.
- 6" FIRE HYDRANT LATERAL SHALL BE THE SAME PRESSURE CLASS AS THE DISTRIBUTION MAIN.
- DUCTILE IRON PIPE TO BE ENCASED WITH TWO LAYERS EIGHT MILS THICK POLYETHYLENE FILM. DO NOT ENCASE FIRE HYDRANT BARREL.
- ALL FIRE HYDRANTS SHALL BE REPAINTED AS REQUIRED IF DAMAGED DURING INSTALLATION.
- USE OF FIRE HYDRANT BARREL EXTENSIONS MUST HAVE PRIOR AGENCY APPROVAL.
- MAXIMUM FIRE HYDRANT LATERAL DEFLECTION SEE UDACS SECTIONS 2.07 AND 3.11
- ADDITIONAL CLEARANCE FROM THE FRONT OF FIRE HYDRANT TO BACK OF CURB MAY BE REQUIRED BY THE AGENCY.

NOT TO SCALE	FILE NAME: UDACS-40 DRAWN BY: SDM CHECKED BY: SPM	<b>FIRE HYDRANT INSTALLATION</b> UDACS PLATE NO. <b>40</b> SHEET 3 OF 3
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### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**NOTES:**

- INSTALL 45° BENDS AS REQUIRED IN STREET TO ACHIEVE UDACS FIRE HYDRANT LATERAL DEPTH REQUIREMENTS. VERTICAL ADJUSTMENT BENDS ARE NOT TO BE INSTALLED UNDER CURB, GUTTER OR SIDEWALK AREAS.
- NO FIRE HYDRANT BARREL SHALL BE LONGER THAN 5'-0".
- WHEN FIRE HYDRANT LATERAL IS DEEPER THAN 5'-0" INSTALL VERTICAL HYDRANT SHOE AND FLG DUCTILE IRON RISER.
- DUCTILE IRON PIPE AND FITTINGS TO BE ENCASED WITH TWO (2) LAYERS EIGHT MILS THICK POLYETHYLENE FILM. DO NOT ENCASE FIRE HYDRANT BARREL OR SHOE.
- SEE UDACS PLATE 40 FOR ADDITIONAL FIRE HYDRANT INSTALLATION REQUIREMENTS.

NOT TO SCALE	FILE NAME: UDACS-41 DRAWN BY: SDM CHECKED BY: SPM	<b>DEEP FIRE HYDRANT INSTALLATION</b> UDACS PLATE NO. <b>41</b> SHEET 1 OF 1
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### UNIFORM DESIGN STANDARDS FOR WATER DISTRIBUTION SYSTEMS

**NOTES**

- BOLLARD TO BE 4" SCH. 40 STEEL PIPE, 6'-0" LONG AND FILLED WITH CONCRETE.
- BOLLARDS ON SIDE NOT ACCESSIBLE TO VEHICLES MAY BE OMITTED BY THE APPROVING AGENCY.
- PLACE 6" WIDE, YELLOW CLASS 4 REFLECTIVE TAPE (PER STANDARD SPECIFICATIONS, SECTION 716), 4" DOWN FROM TOP, FOR FULL DIAMETER ON ALL BOLLARDS.
- CONTRACTOR TO ASSURE THAT BOLLARDS ARE PLACED TO ALLOW FULL ACCESS TO THE PROTECTED FACILITY.

NOT TO SCALE	FILE NAME: UDACS-75 DRAWN BY: SDM CHECKED BY: SPM	<b>VEHICULAR PROTECTION BOLLARD</b> UDACS PLATE NO. <b>75</b> SHEET 1 OF 1
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**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

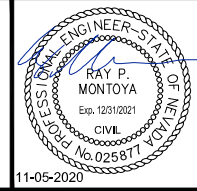
PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CIVIL DETAILS - LATERAL  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



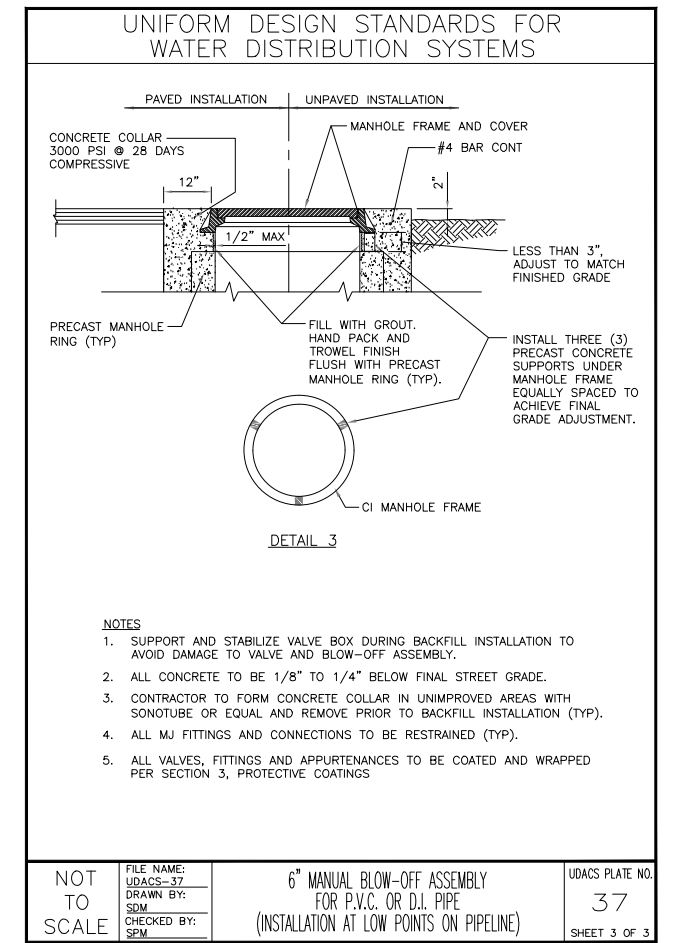
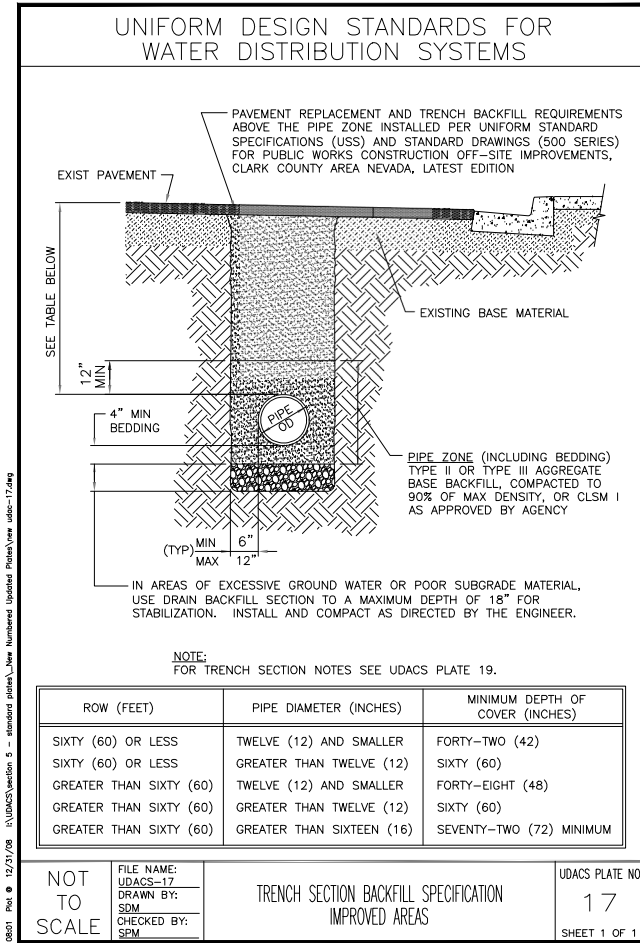
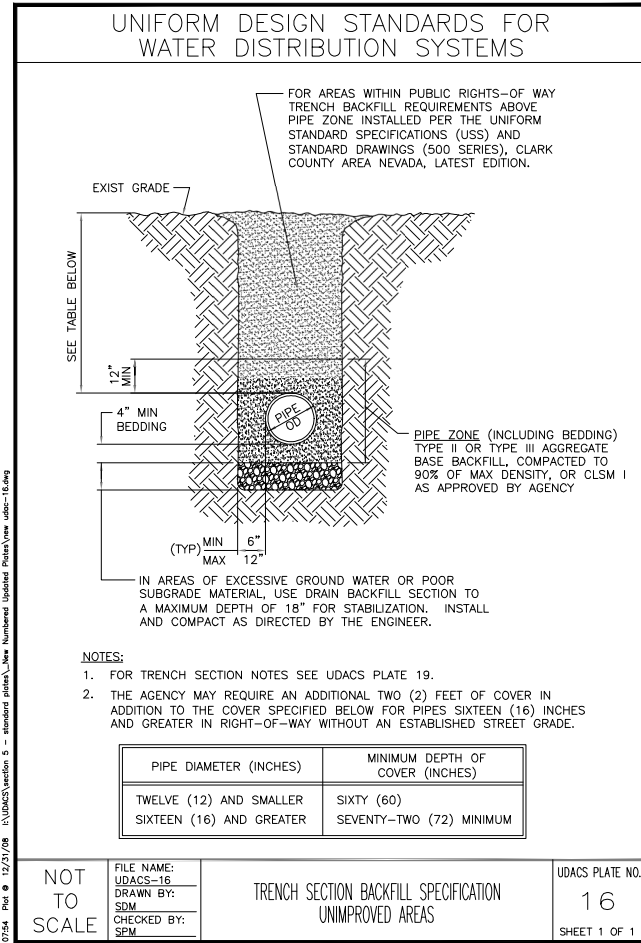
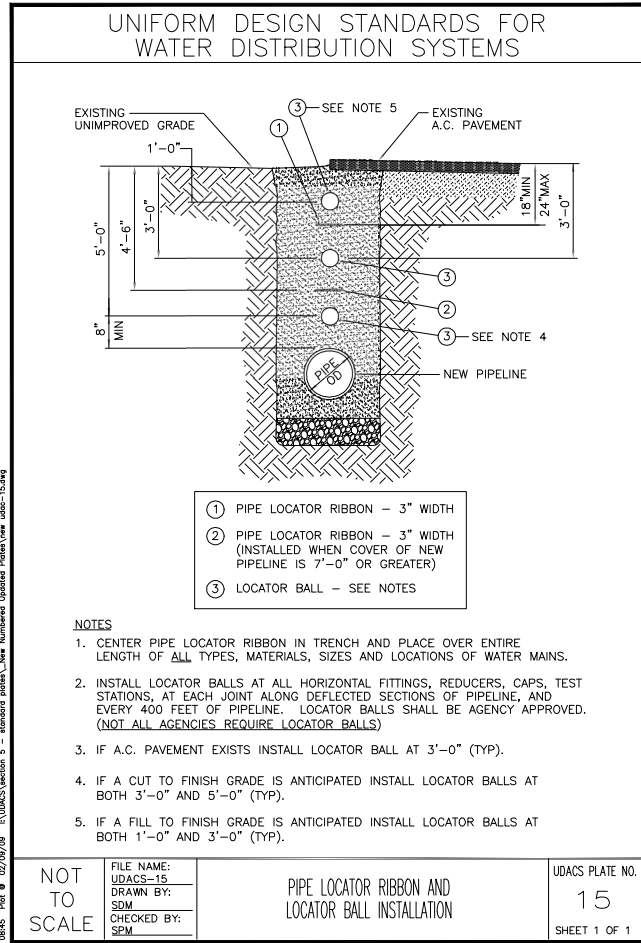
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DESIGNED BY: <u>ROM/GAG</u>	CHECKED BY: <u>ALF/RPM/ROM</u>	HORIZ: <u>N/A</u>
APPROVED BY: _____		VERT: <u>N/A</u>
<b>Kimley»Horn</b>		FIELD BOOK
6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119		Tel. No. (702) 862-3600

DRAWING NO. <b>WD-17</b>
SHT. 55 OF 61
L-2272



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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



NO.	REVISIONS	DATE

**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

11-05-2020

**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

PROJECT No: 500-897-LV DRAWN BY: GAG/KMT/JTK

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: \_\_\_\_\_

SCALE

HORIZ: N/A

VERT: N/A

FIELD BOOK

DRAWING NO.

**WD-18**

SHT. 56 OF 61

L-2272

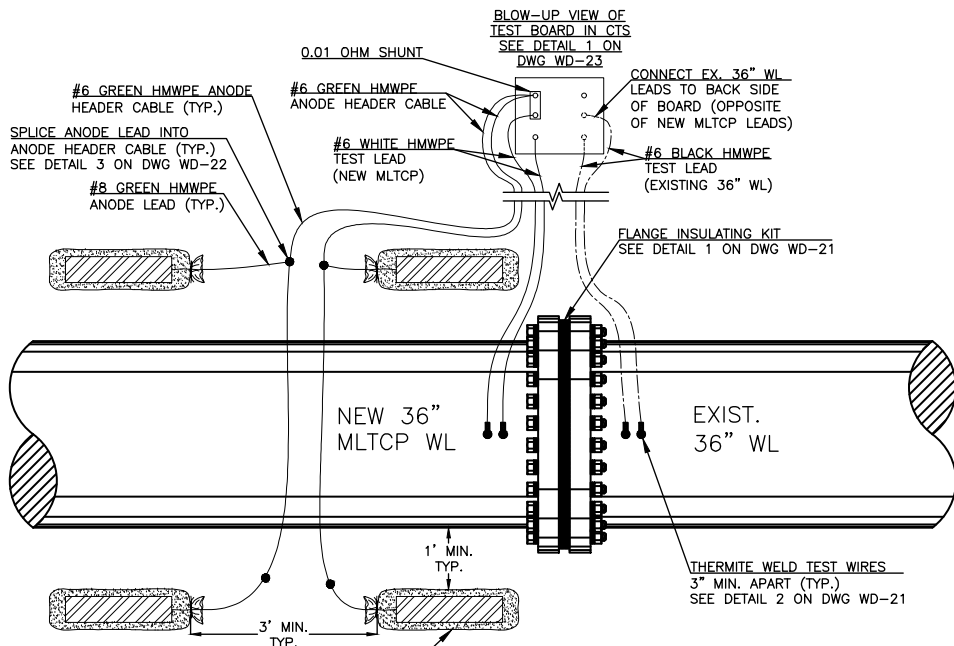
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GENERAL CATHODIC PROTECTION NOTES

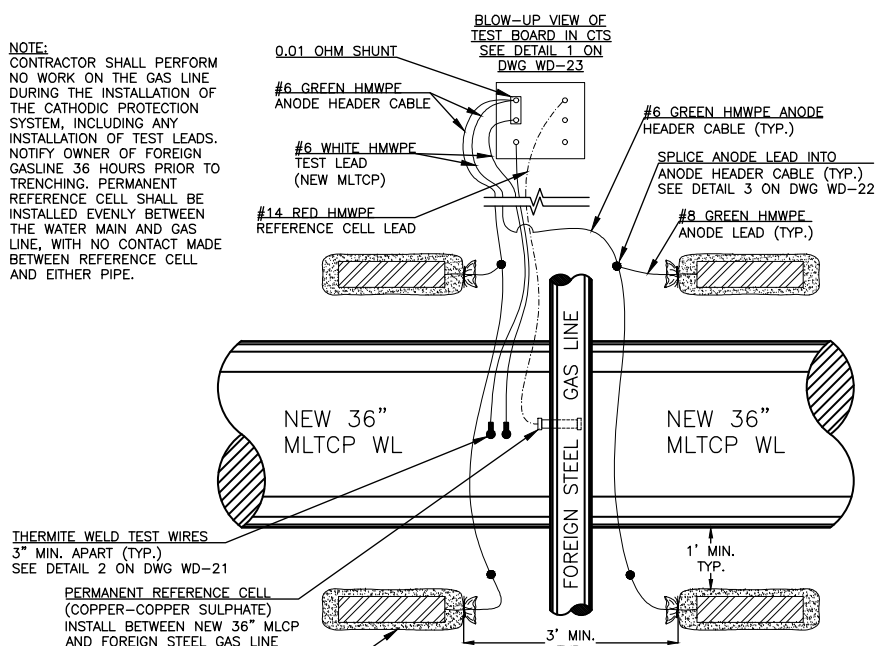
PL12-10 100808

- ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO THE STEEL CYLINDER OF THE PIPE BY MEANS OF A "CADWELD" EXOTHERMIC WELD.
- ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO EITHER THE PIPELINE'S BELL END, SPIGOT END OR PLAIN END AS SHOWN ON THE DRAWING.
- ALL EXPOSED PORTIONS OF THE EXOTHERMIC WELD AND COPPER CABLE CONDUCTORS SHALL BE COATED WITH MULTI-USE EPOXY PRIOR TO PLACING GROUT AROUND THE PIPELINE JOINT.
- ALL TEST LEADS AND ANODE LEADS SHALL BE RUN WITHOUT SPLICES FROM THE CONNECTION AT THE PIPE TO THE CONNECTION AT THE TEST STATION BOX, EXCEPT WHERE THE CATHODIC PROTECTION DESIGN CALLS FOR THE USE OF ANODE HEADER CABLES. SEE LVVWD PL12-14 FOR GALVANIC ANODE SPLICE.
- ALL TEST LEADS AND ANODE TEST LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON CABLE TIES. ALL TEST STATION LEADS SHALL BE PROVIDED WITH SUFFICIENT SLACK SO THAT THE TEST BOARD MAY BE EXTENDED A MINIMUM OF 4 FEET ABOVE THE TEST BOX.
- ALL TEST LEADS AND ANODE LEADS (WIRE INSULATION) ARE COLOR CODED AS FOLLOWS:
 

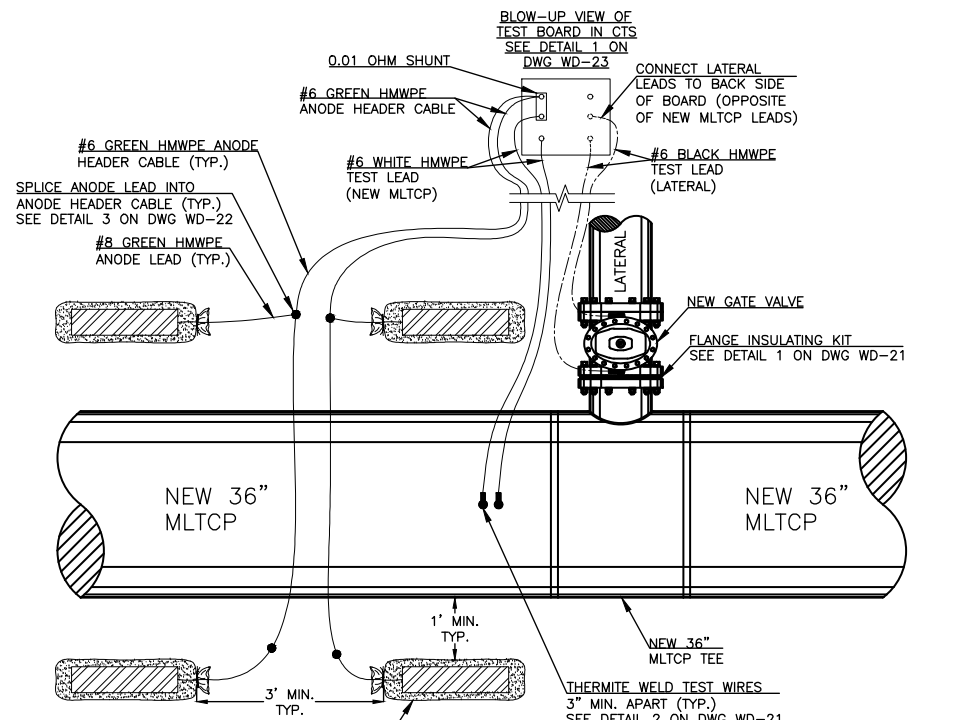
TEST STATION LEADS FROM PIPE	WHITE
REFERENCE CELL TEST LEADS	RED
ANODE TEST LEADS	GREEN
200' TEST LEAD	BLUE
FOREIGN PIPE LEAD	YELLOW
CASING	BLACK
- ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED WIRE INSULATION. COLORED TAPING NOT PERMITTED (TYP.).
- ALL TEST LEADS AND ANODE LEADS SHALL BE CONNECTED TO THE BRASS BOLTS ON THE TEST BOARD WITH SOLDERLESS SCREW TIGHT COPPER LUG CONNECTORS OR PRESSURE TERMINAL CONNECTORS. ALL FASTENERS (SCREWS, LUGS) SHALL BE BRASS OR COPPER.
- ALL TEST LEADS AND ANODE TEST LEADS SHALL HAVE A MINIMUM OF 4' OF SLACK NEAR THE PIPE JOINT TO PREVENT DAMAGE DURING THE BACKFILL OPERATION.
- ALL TEST LEADS AND ANODE TEST LEADS SHALL BE PLACED ALONG THE SIDE AND BELOW THE SPRINGLINE OF THE PIPE.
- DUAL TEST STATIONS - LABEL ALL WIRES TO DISTINGUISH.
- CABLE ASSEMBLIES SHALL BE USED WHEN PRACTICAL.
- TEST STATION PLACEMENT TO BE PERPENDICULAR TO PIPE. AT INTERSECTIONS TEST STATION WIRES TO BE PLACED PARALLEL TO PIPE FOR PLACEMENT PERPENDICULAR TO PIPE AFTER ROAD EASEMENT RADIUS.
- PRE-PACKAGED ANODES SHALL HAVE 6" LIFT OF COMPACTED NATIVE BACKFILL. AFTER BACKFILL IS IN PLACE, SATURATE THE AREA WITH TEN (10) GALLONS MINIMUM OF WATER. AFTER ALL WATER HAS BEEN ABSORBED CONTINUE BACKFILLING.
- ALL BURIED WIRE SHALL BE PLACED IN A 4" SCH 40 PVC ELECTRICAL CONDUIT FROM THE POINT THAT THE WIRES RUN PERPENDICULAR FROM THE PIPELINE TO THE TERMINATION IN THE TEST BOX. DO NOT PLACE RIBBON IN CONDUIT. CONDUIT NOT SHOWN ON PLANS FOR CLARITY.



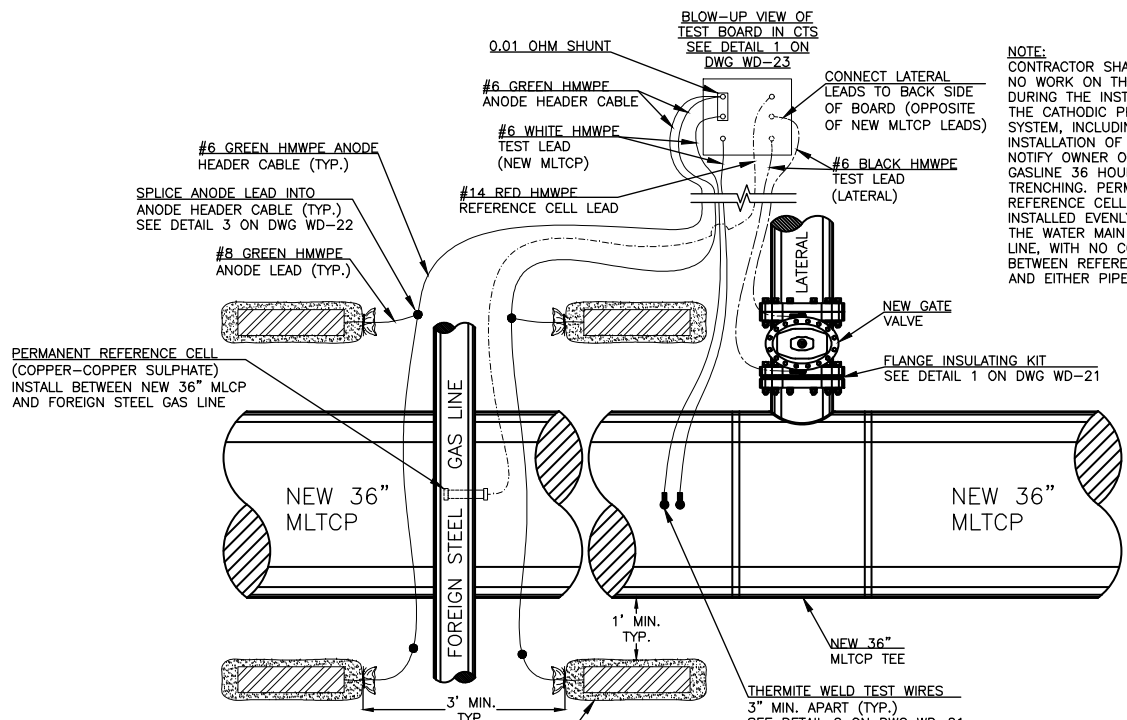
**TYPE I TEST STATION AT ISOLATED EXISTING 36" WATER MAIN**  
NOT TO SCALE



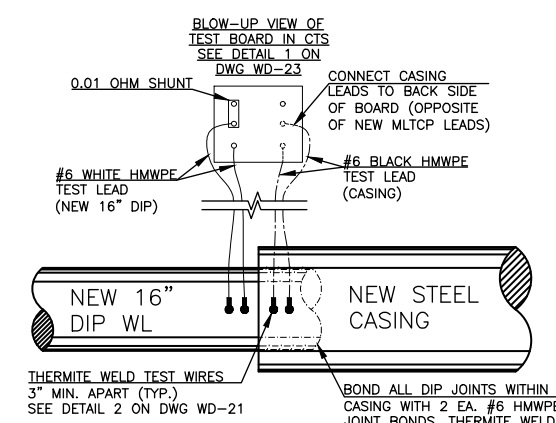
**TYPE F TEST STATION AT GASLINE CROSSING**  
NOT TO SCALE



**TYPE I TEST STATION AT ISOLATED OUTLET**  
NOT TO SCALE



**TYPE I/F TEST STATION AT ISOLATED OUTLET AT GASLINE CROSSING**  
NOT TO SCALE



**TYPE C TEST STATION AT ISOLATED STEEL CASING AT 16" DIP**  
NOT TO SCALE

**PEAK CORROSION CONTROL, INC.**  
9595 E Speedway Blvd. • Tucson, AZ 85748  
(520) 722-7484 • Fax (520) 722-0293



**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

CATHODIC PROTECTION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV DRAWN BY: SEB SCALE: HORIZ: VERT: FIELD BOOK: DRAWING NO. WD-19 SHT. 57 OF 61 L-2248

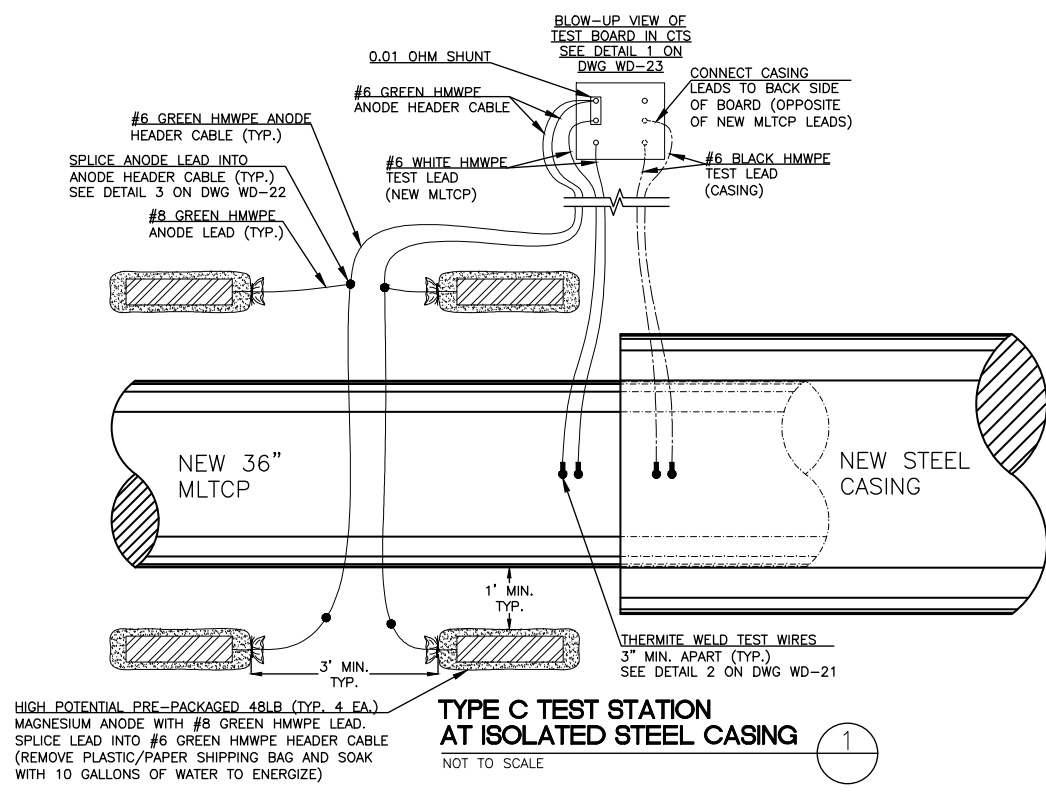
DESIGNED BY: SMG CHECKED BY: HCG

APPROVED BY: \_\_\_\_\_

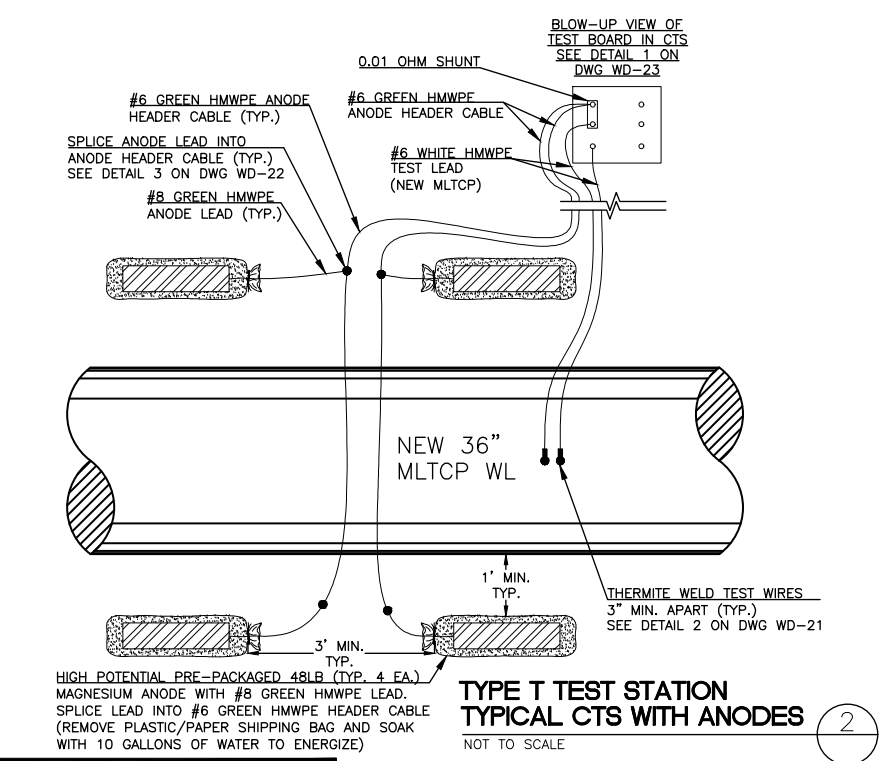
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**TYPE C TEST STATION AT ISOLATED STEEL CASING**  
 NOT TO SCALE



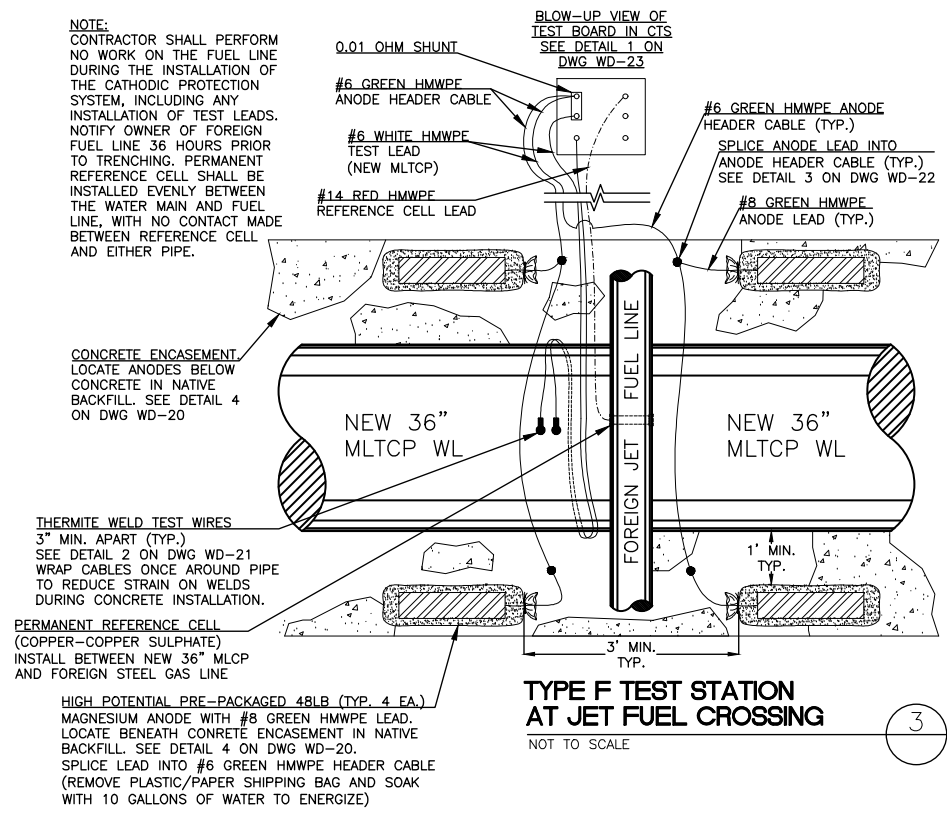
**TYPE T TEST STATION TYPICAL CTS WITH ANODES**  
 NOT TO SCALE

**PEAK CORROSION CONTROL, INC.**  
 9595 E Speedway Blvd. • Tucson, AZ 85748  
 (520) 722-7484 • Fax (520) 722-0293

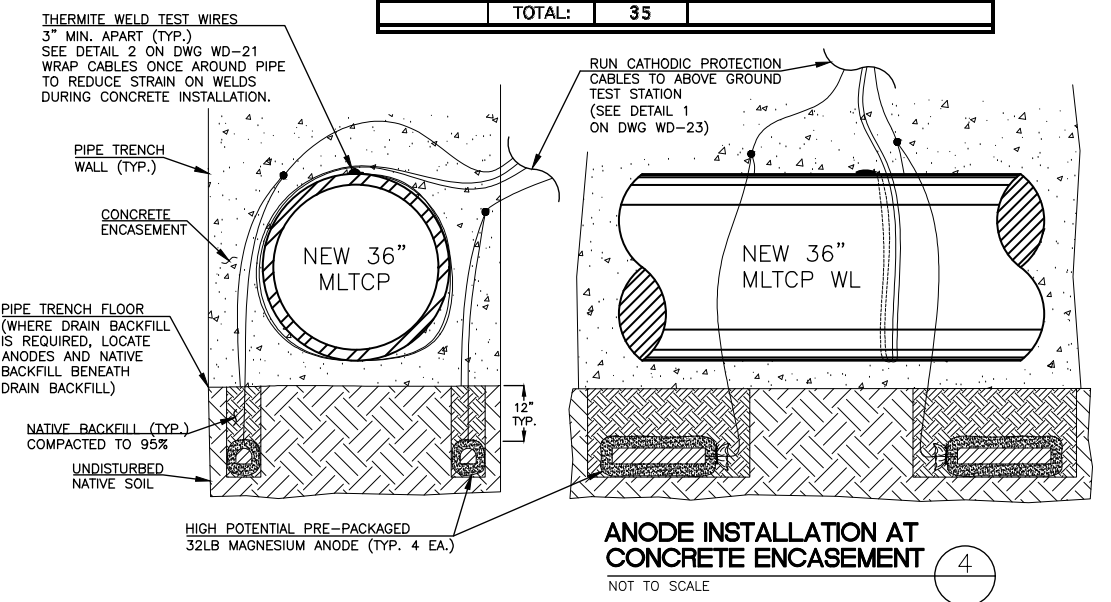
CATHODIC PROTECTION TEST STATION LOCATION TABLE						
REF	STATION*	DETAIL #	TEST LEAD PAIRS	FIK SIZE	CTS TYPE	DESCRIPTION
1	20+32	1 / WD-19	2	36"	I	Begin New 36" MLCP Water Main at Isolated Existing 36" Water Main
2	28+70	2 / WD-19	1		F	2" Steel Foreign Gasline Crossing
3	37+00	2 / WD-20	1		T	Typical Corrosion Test Station
4	45+97	4 / WD-19	2	16"	I/F	8" Steel Foreign HP Gasline Crossing and Isolation of 16" Outlet
5	45+97	5 / WD-19	2		C	Isolation of Steel Casing from 16" DIP
6	49+60	1 / WD-20	2		C	Isolation of Steel Casing
7	50+91	1 / WD-20	2		C	Isolation of Steel Casing
8	53+75	3 / WD-20	1		F	16" Foreign Jet Fuel Crossing
9	55+94	3 / WD-19	2	6"	I	Isolation of 6" Outlet
10	63+65	3 / WD-19	2	6"	I	Isolation of 6" Outlet
11	68+65	3 / WD-19	2	6"	I	Isolation of 6" Outlet
12	73+70	3 / WD-19	2	6"	I	Isolation of 6" Outlet
13	74+70	2 / WD-19	1		F	4" Steel Foreign Gasline Crossing
14	75+47	3 / WD-19	2	6"	I	Isolation of 6" Outlet
15	81+88	3 / WD-19	2	6"	I	Isolation of 6" Outlet
16	83+50	2 / WD-19	1		F	4" Steel Foreign Gasline Crossing
17	87+12	3 / WD-19	2	6"	I	Isolation of 6" Outlet
18	90+11	3 / WD-19	2	12"	I	Isolation of 12" Outlet
19	91+07	3 / WD-19	2	12"	I	Isolation of 12" Outlet
20	94+90	1 / WD-20	2		C	Isolation of Steel Casing
21	95+13	1 / WD-20	2		C	Isolation of Steel Casing
22	95+77	3 / WD-19	2	12"	I	Isolation of 12" Outlet
23	96+53	3 / WD-19	2	6"	I	Isolation of 6" Outlet
24	97+00	1 / WD-20	2		C	Isolation of Steel Casing
25	97+62	1 / WD-20	2		C	Isolation of Steel Casing
26	98+26	3 / WD-19	2	12"	I	Isolation of 12" Outlet
27	100+80	3 / WD-19	2	16"	I	Isolation of 16" Outlet
28	105+82	3 / WD-19	2	16"	I	Isolation of 16" Outlet
29	106+29	1 / WD-19	2	36"	I	End New 36" MLCP Water Main at Isolated Existing 36" Water Main

\* Approximation only. Field locate test stations and cathodic protection system based upon final position of pipe fittings.

FLANGE INSULATING KIT LOCATION TABLE			
FIK STATION	CTS REF#	FIK SIZE	DESCRIPTION
20+32	1	36"	New 36" Main / Existing 36" Main
23+67		6"	Combination Air Valve Assembly
30+39		6"	Blow-Off Assembly
30+49		6"	Combination Air Valve Assembly
34+23		6"	Blow-Off Assembly
34+31		6"	Combination Air Valve Assembly
40+17		6"	Combination Air Valve Assembly
40+27		6"	Blow-Off Assembly
45+63		6"	Blow-Off Assembly
45+97	5	16"	16" Lateral / New 36" Main
47+07		6"	Combination Air Valve Assembly
55+94	9	6"	6" Lateral / New 36" Main
60+17		6"	Blow-Off Assembly
60+27		6"	Combination Air Valve Assembly
63+65	10	6"	6" Lateral / New 36" Main
68+65	11	6"	6" Lateral / New 36" Main
73+03		6"	Blow-Off Assembly
73+25		6"	Combination Air Valve Assembly
73+70	12	6"	6" Lateral / New 36" Main
75+47	14	6"	6" Lateral / New 36" Main
81+88	15	6"	6" Lateral / New 36" Main
85+18		6"	Blow-Off Assembly
85+27		6"	Combination Air Valve Assembly
87+12	17	6"	6" Lateral / New 36" Main
90+11	18	12"	12" Lateral / New 36" Main
91+07	19	12"	12" Lateral / New 36" Main
95+77	22	12"	12" Lateral / New 36" Main
96+53	23	6"	6" Lateral / New 36" Main
96+92		6"	Blow-Off Assembly
98+26	26	12"	12" Lateral / New 36" Main
100+80	27	16"	16" Lateral / New 36" Main
105+82	28	16"	16" Lateral / New 36" Main
106+02		6"	Blow-Off Assembly
106+12		6"	Combination Air Valve Assembly
106+29	29	36"	New 36" Main / Existing 36" Main
<b>TOTAL:</b>		<b>35</b>	



**TYPE F TEST STATION AT JET FUEL CROSSING**  
 NOT TO SCALE



**ANODE INSTALLATION AT CONCRETE ENCASMENT**  
 NOT TO SCALE



**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

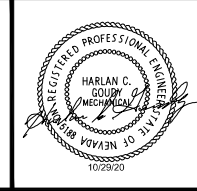
PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**

**CATHODIC PROTECTION DETAILS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV DRAWN BY: SEB SCALE: HORIZ: VERT: FIELD BOOK: DRAWING NO. **WD-20** SHT. 58 OF 61 L-2248

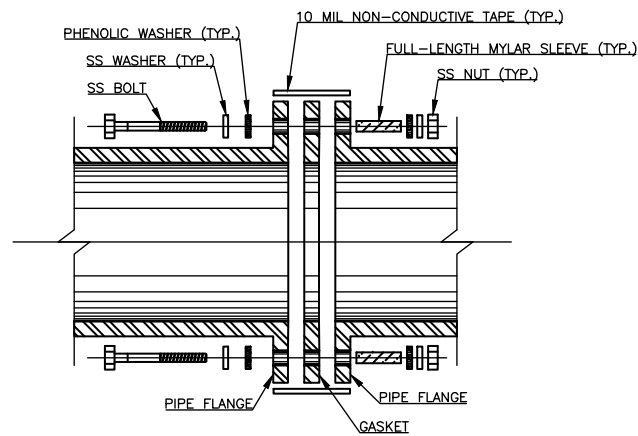
DESIGNED BY: SMG CHECKED BY: HCG

APPROVED BY: \_\_\_\_\_

**Kimley Horn**  
 6671 Las Vegas Boulevard South, Suite 320  
 Las Vegas, Nevada 89119 Tel. (702) 882-3600

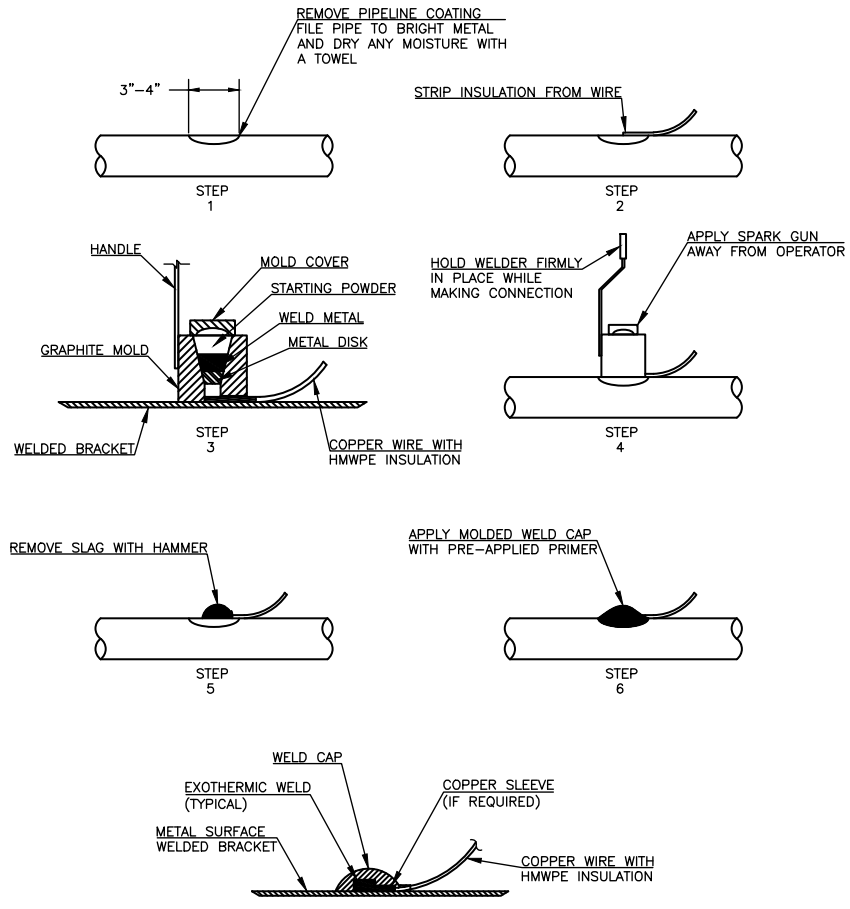


User: Gerardo.Gonzalez Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd I-215 to Dewey-Sealed 10-29-20.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. House of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

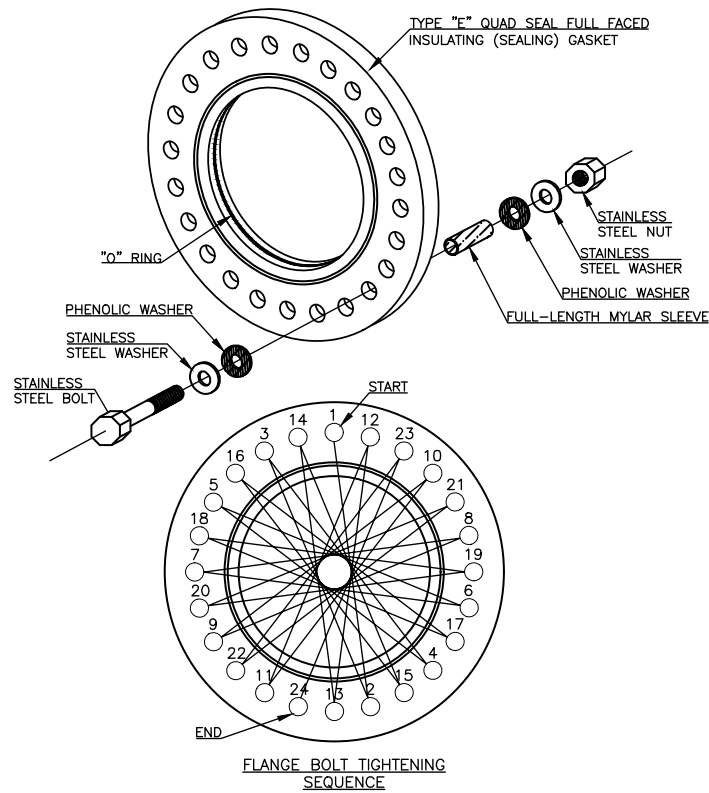


**FLANGE INSULATING KIT NOTES:**

1. CATHODIC PROTECTION MATERIALS ARE TO BE LEFT IN MANUFACTURER'S BOXES, PACKAGES, ETC.
2. THE SEAMLESS (ONE PIECE) PHENOLIC NEOPRENE FACED/COATED TYPE "E" FLANGE INSULATING GASKET SHALL HAVE A DIELECTRIC STRENGTH GREATER THAN OR EQUAL TO 400 VOLTS PER MIL.
3. PLAIN PHENOLIC GASKETS WITHOUT O RINGS SHALL BE SANDWICHED BETWEEN TWO 1/8" STANDARD SERVICE GASKETS.
4. IF REQUIRED, BOLT HOLES SHALL BE REAMED AFTER FITTING FLANGES TOGETHER, BUT PRIOR TO INSERTING MYLAR INSULATING SLEEVES.
5. HARDWARE SHALL BE NON-CONDUCTIVE ANTI-SEIZE OR DIELECTRIC ANTI-SEIZE SS316 STAINLESS STEEL.
6. THE BOLT TORQUE REQUIREMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
7. TO PROVIDE EVEN SEALING ON A FLANGE GASKET THE CONTRACTOR SHALL HAND TIGHTEN THE BOLTS IN THE SEQUENCE SHOWN UNTIL THE FLANGE FACES ARE IN CONTACT WITH THE GASKET. AFTER THE FLANGE FACES ARE IN CONTACT WITH THE GASKET, THEY SHALL BE FIRMLY TIGHTENED IN THE SAME SEQUENCE, TO 30%, AND THEN AGAIN TO 60%, AND AGAIN TO 100% OF THE FINAL TORQUE VALUE.
8. THE CONTRACTOR SHALL CHECK ALL BOLTS AFTER OPERATING TEMPERATURE HAS BEEN REACHED, PREFERABLY AT ZERO LINE PRESSURE AND AMBIENT TEMPERATURE AND RE-TIGHTEN IF LOOSE. THE SYSTEM SHALL NOT BE ALLOWED TO RETURN TO OPERATING TEMPERATURE AFTER THE INITIAL CYCLING AT AMBIENT TEMPERATURE WITHOUT CHECKING AND RE-TIGHTENING BOLTS AS NECESSARY.
9. ALTHOUGH 24 BOLT HOLES ARE SHOWN, THE SAME BASIC PROCEDURE SHALL BE USED WITH FLANGES HAVING MORE OR LESS BOLT HOLES.
10. THE INSULATED FLANGE SHALL BE WRAPPED WITH A 10 MIL 2" OR 4" NON-CONDUCTIVE TAPE.
11. UPON COMPLETION AND TWENTY-FOUR HOURS PRIOR TO BURIAL, THE CONTRACTOR'S NACE TECHNICIAN/TECHNOLOGIST SHALL VERIFY THE EFFECTIVENESS OF THE FLANGE INSULATING KIT. VERIFICATION AND/OR TEST RESULTS SHALL BE INCLUDED IN THE FINAL CORROSION TEST REPORT.
12. DURING BACKFILLING, THE CONTRACTOR SHALL USE CAUTION TO PREVENT DISPLACEMENT OF ALL STRANDED COPPER CONDUCTORS AND BONDING CONDUCTORS. ANY DAMAGE TO THE BONDING CONDUCTORS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

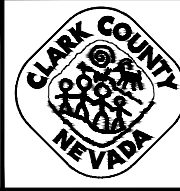


**EXOTHERMIC THERMITE WELD PROCEDURE** (2)  
NOT TO SCALE



**FLANGE INSULATING KIT INSTALLATION** (1)  
NOT TO SCALE

**PEAK CORROSION CONTROL, INC.**  
9595 E Speedway Blvd. • Tucson, AZ 85748  
(520) 722-7484 • Fax (520) 722-0293



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
CATHODIC PROTECTION DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

PROJECT No: 500-897-LV DRAWN BY: SEB  
DESIGNED BY: SMG CHECKED BY: HCG  
APPROVED BY: \_\_\_\_\_

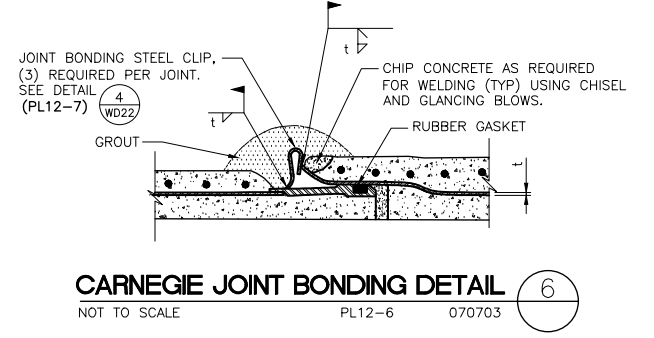
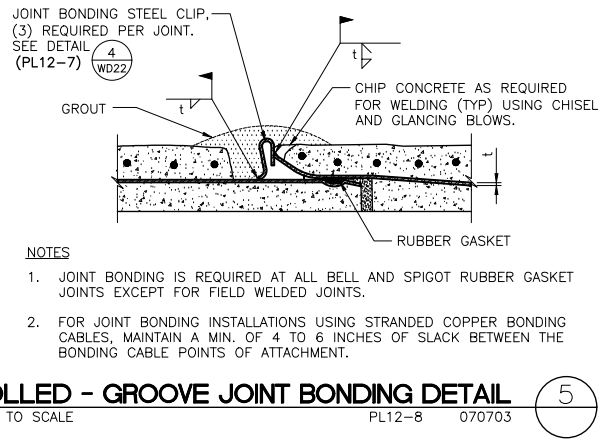
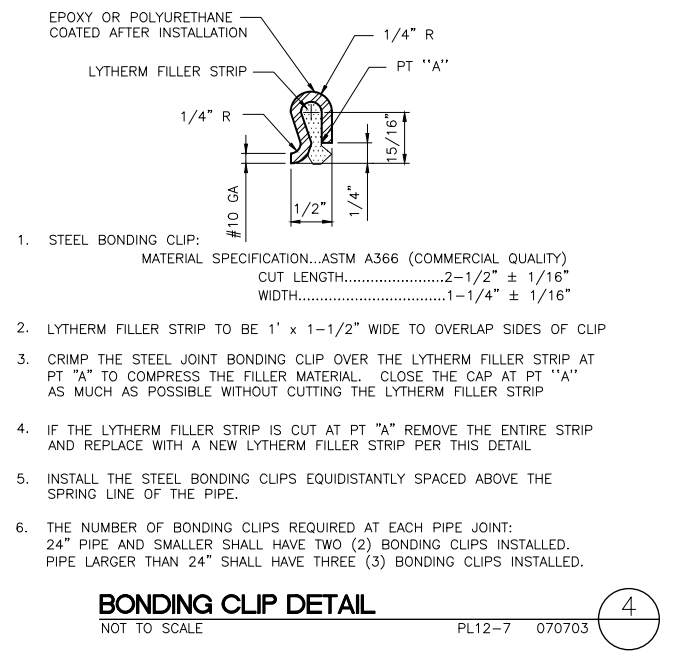
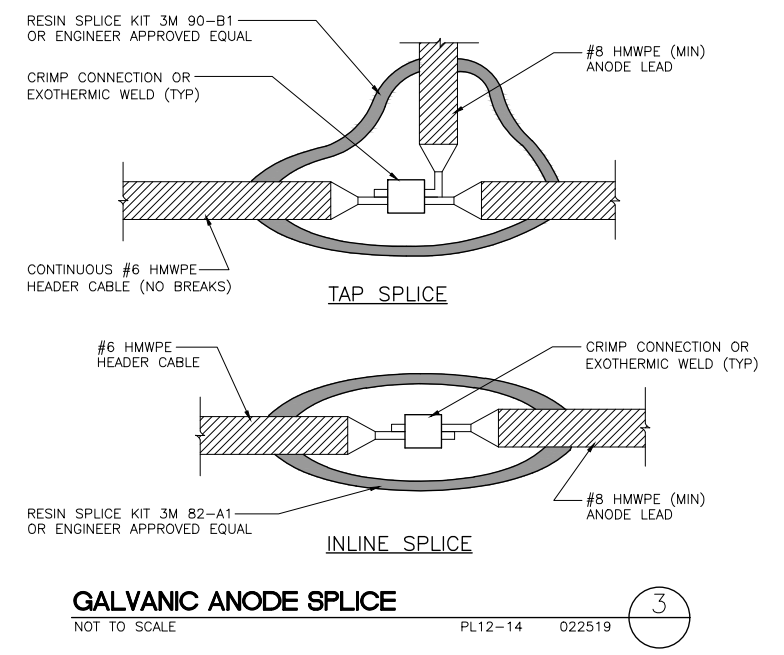
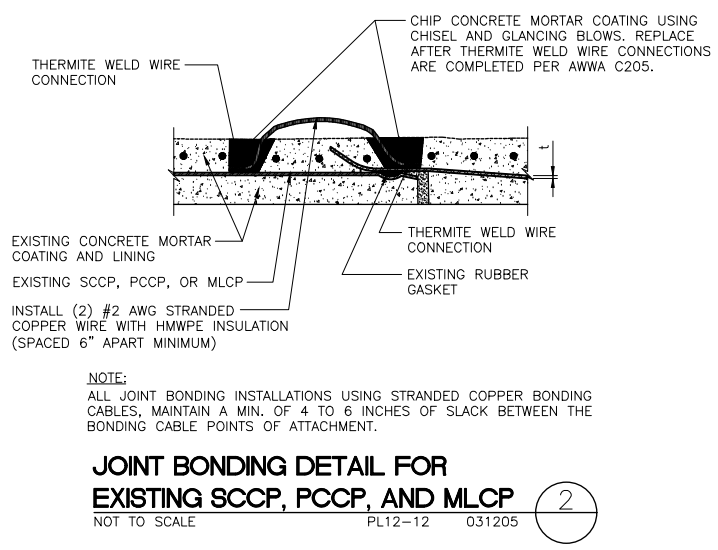
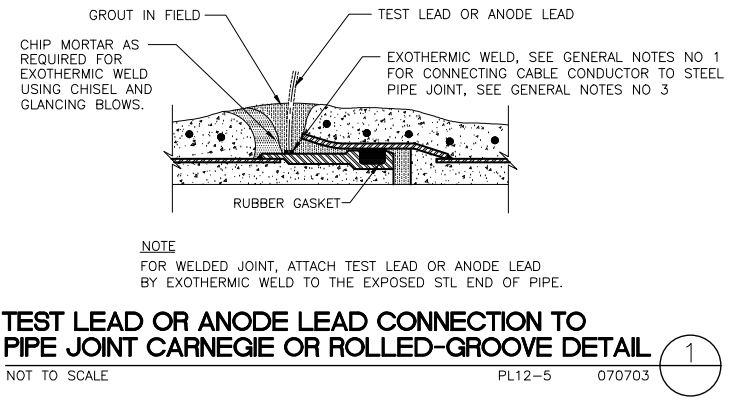
**Kimley»Horn**  
6671 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ:	WD-21
VERT:	SHT. 59 OF 61
FIELD BOOK	L-2248

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

User: Gerardo.Gonzalez  
 Path: K:\TUC-WaterResources\098513000\_Las Vegas Blvd I-215 to Dewey-Scalled 10-29-20.dwg  
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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



**LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)**  
 CATHODIC PROTECTION DETAILS  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



**LVVWD APPROVAL**

APPROVED FOR CONSTRUCTION

PREVIOUSLY SIGNED BY MIKE DISHARI  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

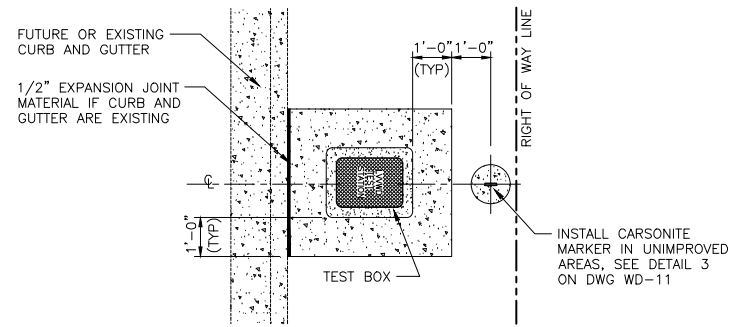
PROJECT No. 136878 FIRST APPROVED DATE 3/2/2021

PROJECT No: 500-897-LV DRAWN BY: SEB  
 DESIGNED BY: SMG CHECKED BY: HCG  
 APPROVED BY: \_\_\_\_\_

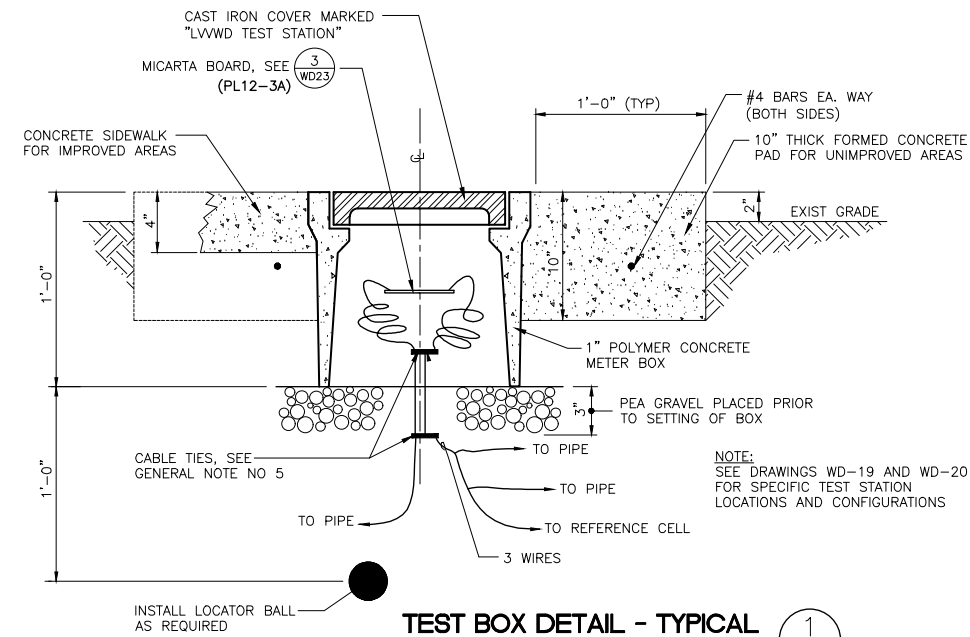
**Kimley»Horn**  
6671 Las Vegas Boulevard South, Suite 320  
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

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VERT:	SHT. 60 OF 61
FIELD BOOK	L-2248

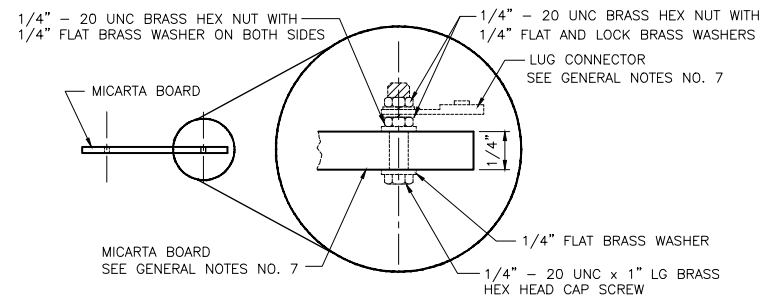
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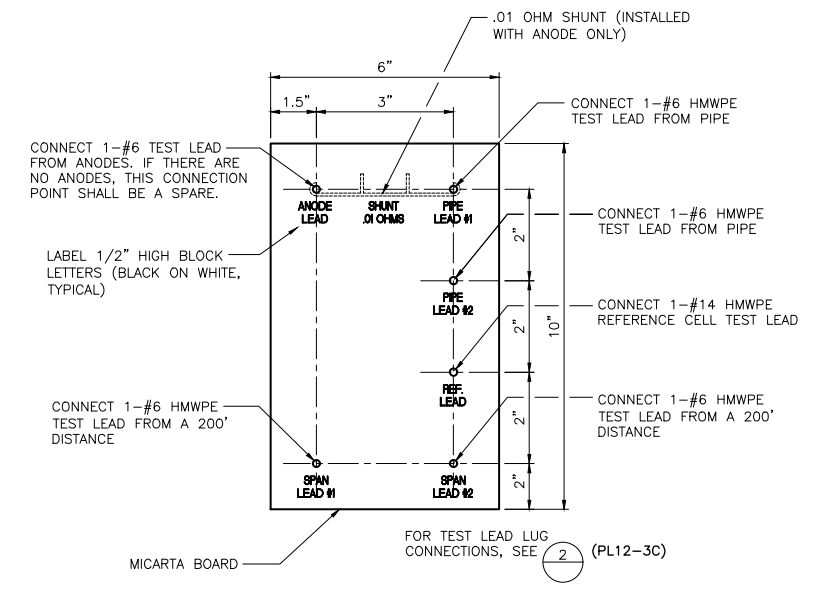
PLAN VIEW



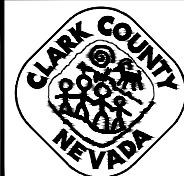
TEST BOX DETAIL - TYPICAL (1)  
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TEST BOARD DETAIL - TYPICAL (2)  
NOT TO SCALE PL12-3C 020719



STANDARD TEST BOARD INSTALLATION (3)  
NOT TO SCALE PL12-3A 020719



LAS VEGAS BLVD WATERLINE REPLACEMENT - I-215 TO DEWEY DRIVE (PHASE B)

CATHODIC PROTECTION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



LVVWD APPROVAL

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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

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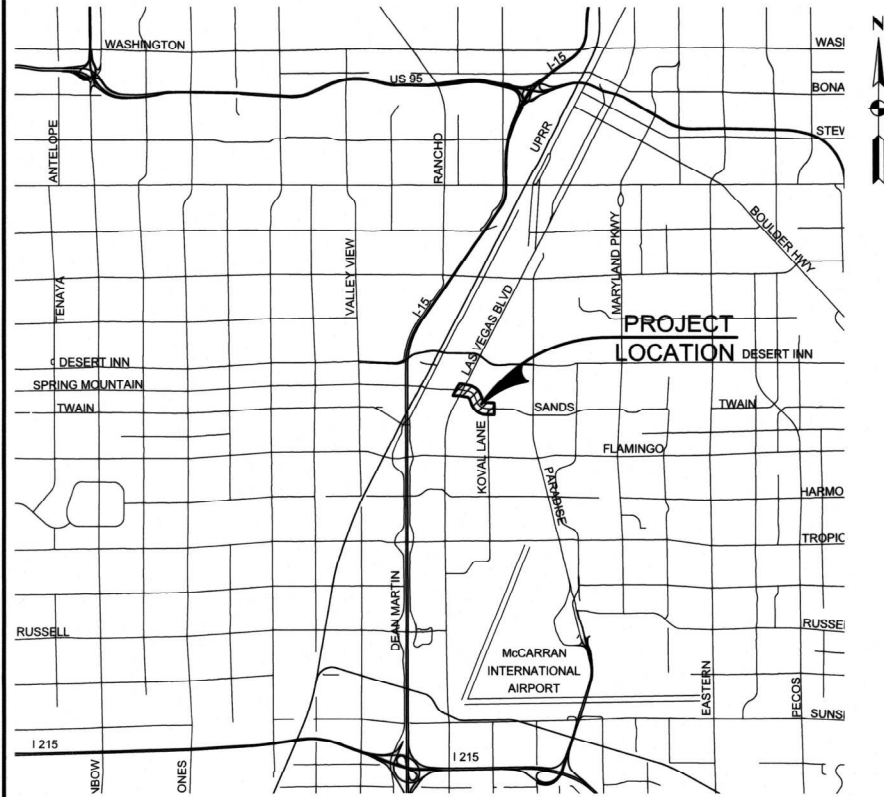
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DESIGNED BY: SMG CHECKED BY: HCG  
APPROVED BY: \_\_\_\_\_



SCALE	DRAWING NO.
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VERT:	SHT. 61 OF 61
FIELD BOOK	L-2248



# DEPARTMENT OF PUBLIC WORKS



**Vicinity Map**  
NOT TO SCALE

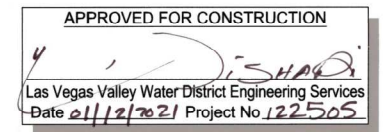


## Index of Sheets

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S-CP-1	CONTROL PLAN
S-TY-1	TYPICAL SECTIONS
S-R-1 TO S-R-2	REMOVAL PLANS
S-C-1 TO S-C-2	CONSTRUCTION PLANS
S-DT-1 TO S-DT-3	GRADING DETAILS
S-LP-1	LATERAL PROFILE
S-DD-1	DRAINAGE DETAILS
S-ST-1 TO S-ST-3	SIGNING AND STRIPING PLANS
S-T-1 TO S-T-7	TRAFFIC SIGNAL PLANS
S-SL-1 TO S-SL-2	LIGHTING PLANS

## Reference Plans

S-ROS-1	RECORD OF SURVEY
---------	------------------



**County Manager**

Yolanda T King

**Director of Public Works**

Approved:

*Denis Cederburg*  
Denis Cederburg

**Regional Transportation Commission  
of Southern Nevada**

Approved:

N/A

## County Commissioners

Marilyn Kirkpatrick, Chair  
Lawrence Weekly, Vice Chair  
Larry Brown  
James B. Gibson  
Justin C. Jones  
Michael Naft  
Tick Segerblom

# 2020 INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

FUNDED BY  
CLARK COUNTY

CIVIL ENGINEER OF RECORD	STRUCTURAL ENGINEER OF RECORD
--------------------------	-------------------------------

AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	NUMBER	REVISIONS DESCRIPTION	DATE	WSP	TRAFFIC MANAGEMENT DIVISION
			DEPUTY DIRECTOR							COVER SHEET
			DEPUTY DIRECTOR	<i>Denis Cederburg</i>	9/10/20					
			DEPUTY DIRECTOR	<i>Denis Cederburg</i>	9/10/20					
			DESIGN ENGINEERING DIVISION	<i>Denis Cederburg</i>	9/10/20					
			CONSTRUCTION MANAGEMENT DIVISION	<i>Denis Cederburg</i>	9/10/20					
			ROAD DIVISION	<i>Denis Cederburg</i>	9/10/20					
			TRAFFIC MANAGEMENT DIVISION	<i>Denis Cederburg</i>	9/10/20				L-2174	
			COUNTY SURVEYOR'S OFFICE	<i>Denis Cederburg</i>	9/10/20					
			DEVELOPMENT REVIEW DIVISION	<i>Denis Cederburg</i>	9/10/20					



# GENERAL NOTES

- ALL CONSTRUCTION AND TRAFFIC SIGNAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA". THE MANUAL CAN BE FOUND HERE: WWW.RTCSNV.COM/MPO/STREETS/FILES/COMPLETESETS/DRAWINGS SET.PDF
- PER SPECIAL PROVISIONS SECTION 637.03.03, PLEASE REFER TO THE "THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL", SECTION 3.5.1 FOR THE STORMWATER MANAGEMENT NOTES AND APPENDIX B FOR THE VARIOUS REQUIRED CHECKLISTS. THE MANUAL CAN BE FOUND HERE: HTTP://ACEQUA.CCR.FCD.ORG/PDF\_ARCH1/NPDES/SSWGWEBDOCS/LV%20CONSTRUCTION%20SITE%20BMP%20GUIDANCE%20MANUAL\_JAN%202009.PDF
- ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES LIKELY TO BE AFFECTED AND TO PROTECT IN PLACE. ALL UTILITIES SHOWN HEREIN. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF SUSPECTED UTILITY INTERFERENCES, AND SHALL FURNISH INFORMATION ON THE SAME TO THE ENGINEER, NOT LESS THAN TEN (10) DAYS PRIOR TO THE ANTICIPATED INTERFERENCES ON HIS WORK. IF CONFLICTS EXIST, THE CONTRACTOR WILL IMMEDIATELY CONTACT THE ENGINEER AND PROVIDE THE ENGINEER WITH ALL THE NECESSARY DATA SUCH AS ELEVATIONS, HORIZONTAL LOCATIONS, ETC., AND PROVIDE THE ENGINEER WITH SKETCHES INDICATING THE PROPOSED IMPROVEMENT AND THE UTILITY CONFLICT. THE ENGINEER WILL EXAMINE AND REVIEW ALL THE DATA AND SKETCHES PROVIDED, AND WILL PROVIDE THE CONTRACTOR WITH AN ALTERNATIVE DESIGN WITHIN FIVE (5) DAYS AFTER RECEIPT OF DATA AND SKETCHES.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION.
- SIGNATURES SHOWN ON THE COVER OF THESE PLANS BY THE LOCAL UTILITY COMPANIES, DOES NOT ASSUME OR GUARANTEE THEIR LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.
- THE CONTRACTOR SHALL COORDINATE WITH THE NV ENERGY COMPANY, CENTURYLINK, LOCAL CABLE COMPANY AND THE SOUTHWEST GAS CORPORATION FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD UTILITIES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
- CAUTION: HIGH PRESSURE GAS!! CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL LAS VEGAS VALLEY WATER DISTRICT FACILITIES AND CLARK COUNTY WATER RECLAMATION DISTRICT MANHOLES TO FINISHED GRADE AS INDICATED ON THE PLANS OR IN THE SPECIAL PROVISIONS UNLESS OTHERWISE INDICATED.
- ALL SANITARY SEWER LINES SHOWN ON THESE PLANS ARE CLARK COUNTY WATER RECLAMATION DISTRICT PUBLIC LINES, UNLESS OTHERWISE NOTED. ALL CCWRD SANITARY SEWER LID ADJUSTMENTS SHALL BE PER DSCWCS SD-5 AND SECTION 630 OF THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, LAWNS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS OR ANY OTHER IMPROVEMENTS OUTSIDE THE RIGHT-OF-WAY EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- EXACT LOCATIONS OF ALL SAWCUT LINES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THOSE SAWCUTS THAT ARE LONGITUDINAL TO THE ROADWAY MAY BE WHEEL CUT WITH EQUIPMENT AS APPROVED BY THE ENGINEER. ALL OTHER SAWCUTS SHALL BE MADE BY A ROTARY SAW.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING REQUIRED TO REMAIN, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
- FAST INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT/FIBER OPTIC CABLE MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT/FIBER OPTIC CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO FAST. ANY DAMAGE TO THIS CABLE IS DEEMED AN EMERGENCY BY FAST, CITY OF LAS VEGAS, CLARK COUNTY AND NDOT AND MUST BE REPAIRED IMMEDIATELY TO FAST ACCEPTANCE. DAMAGES MAY BE ASSESSED AGAINST THE CONTRACTOR AFTER 24 HOURS HAS ELAPSED FROM THE TIME OF BREAK OR DAMAGE. \$2,500 PER DAY DAMAGES WILL BE ASSESSED AFTER TWENTY-FOUR (24) HOURS HAS ELAPSED FROM THE TIME OF BREAK OR DAMAGE TO COPPER WIRED INTERCONNECT CABLE AND \$7,500 PER DAY FOR DAMAGE TO FIBER OPTIC CABLE.
- ALL STORM DRAIN MANHOLE ACCESS COVERS SHALL HAVE A MINIMUM DIAMETER OF THIRTY (30") INCHES.

# NV ENERGY REVIEW

NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

APPROVAL:  
*Signature On File* 01/28/21  
NV Energy-Distribution Date

APPROVAL:  
*Signature On File* 01/28/21  
NV Energy-Transmission Date

# ABBREVIATIONS:

AC	ASPHALT CONCRETE PAVEMENT	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
ACP	ASBESTOS CEMENT PIPE	N	NORTH
ADA	AMERICAN DISABILITY ACT	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
AD	ALGEBRAIC DIFFERENCE	NEC	NATIONAL ELECTRICAL CODE
APN	ASSESSORS PARCEL NUMBER	No. NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NVE	NV ENERGY
ATC	ADVANCED TRAFFIC CONTROL	NPI	NO PAY ITEM
AVAR	AIR VACUUM RELEASE	NTS	NOT TO SCALE
AVE	AVENUE	NVPCO	NEVADA POWER COMPANY
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
BC	BACK OF CURB	OHP/TTC	OVERHEAD POWER, TELEPHONE AND CABLE
BCR	BEGINNING OF CURB RETURN	PB	PULLBOX
BCT	BEGIN CURB TRANSITION	P/L	PROPERTY LINE
BLVD	BOULEVARD	PC	POINT OF CURVATURE
BM	BENCHMARK	PCC	POINT OF COMPOUND CURVATURE (PLAN VIEWS)
BNC	BAYONET NEILL-CONCELMAN	PCF	POUNDS PER CUBIC FOOT
BS	BACK SLOPE	PCCP	PORTLAND CONCRETE CEMENT PAVEMENT
B.O. BOV	BLOW-OFF	PE	PERMANENT EASEMENT
C/A	CONTROL OF ACCESS	PGL	PROFILE GRADE LINE
CATV	CABLE TV	PI	POINT OF INTERSECTION
CCPW	CLARK COUNTY PUBLIC WORKS	PKWY	PARKWAY
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	PL	PLATE
CDCA	COMMUNICATIONS DISTRIBUTION CABLE ASSEMBLY	P/L	PROPERTY LINE
CEN	CENTER	PMF	PAVEMENT MARKING FILM
CF	CUBIC FEET	POC	POINT ON CURVE
CFS	CUBIC FEET PER SECOND	POT	POINT ON TANGENT
CIP	CAST IRON PIPE	PRC	POINT OF REVERSE CURVATURE
CL	CENTER LINE	PSF	POUNDS PER SQUARE FOOT
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CLSM	CONTROLLED LOW STRENGTH MATERIAL	PT	POINT OF TANGENCY
CLV	CITY OF LAS VEGAS	PVC	POLYVINYL CHLORIDE
CMP	CORRUGATED METAL PIPE	PVI	POINT OF VERTICAL INTERSECTION
CONC	CONCRETE	PVMT	PAVEMENT
CTS	CATHODIC TEST STATION	QPL	QUALIFIED PRODUCTS LIST
CY	CUBIC YARD	R	RADIUS
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	REM	REMOVE
DSCWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS	RCP	REINFORCED CONCRETE PIPE
DCVA	DOUBLE CHECK VALVE ASSEMBLY	RD	ROAD
DI	DROP INLET	RPM	RAISED PAVEMENT MARKER
DIA	DIAMETER	RPPA	REDUCED PRESSURE PRINCIPAL ASSEMBLY
DIN	"DEUTSCHES INSTITUT FUR NORMUNG" GERMAN INSTITUTE FOR STANDARDIZATION	RS	RIGHT
DIP	DUCTILE IRON PIPE	RT	RIGHT
DR	DRIVE	RTC	REGIONAL TRANSPORTATION COMMISSION
DWG	DRAWING	R/W, ROW	RIGHT-OF-WAY
E	ELECTRIC (UTILITY PLANS)	S	SOUTH
EA	EACH	SD	STORM DRAIN
EGR	END OF CURB RETURN	SDR	STANDARD DIMENSION RATIO
EEC	EXTEND EXISTING CONDUIT	SF	SQUARE FOOT
ELEC	ELECTRIC	S-G	STEEL GAS
ELEV	ELEVATION	SHLDR	SHOULDER
EPNG	EL PASO NATURAL GAS	SHT	SHEET
EQ	EQUAL	SL	STREET LIGHT
ESMT	EASEMENT	SP	SPACE
ET&C	ELECTRIC, TELEPHONE AND CABLE	SQ FT	SQUARE FOOT
EXIST, EX	EXISTING	SQ YD	SQUARE YARD
(F)	FILL	SS	SANITARY SEWER
FAST	FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION	SSMH	SANITARY SEWER MANHOLE
FG	FINISHED GRADE	ST	STREET
FH	FIRE HYDRANT	STA	STATION
FL	FLOW LINE	STD	STANDARD
FO	FIBER OPTIC	STL	STEEL
FS	FORE SLOPE	S/W	SIDEWALK
FT	FOOT OR FEET	SWG	SOUTHWEST GAS
FYA	FLASHING YELLOW ARROW	SY	SQUARE YARD
G	GAS	T	TELEPHONE LINE
GALV	GALVANIZED	TC	TOP OF BACK OF CURB
GM	GAS METER	TCE	TEMPORARY CONSTRUCTION EASEMENT
GPS	GLOBAL POSITIONING SYSTEM	TELE	TELEPHONE
GTT	GLOBAL TRAFFIC TECHNOLOGY	THW	THERMO PLASTIC, HEAT AND WATER RESISTANT
H	HEIGHT	TPE	THERMOPLASTIC ELASTOMER
HDPE	HIGH DENSITY POLYETHYLENE	TS	TRAFFIC SIGNAL
HGL	HYDRAULIC GRADE LINE	TYP	TYPICAL
HORIZ	HORIZONTAL	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
HP	HIGH PRESSURE	UG	UNDERGROUND
HPS	HIGH PRESSURE SODIUM PROPRIETARY DISINFECTANT	UGE	UNDERGROUND ELECTRIC
IMSA	INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION	UL	UNDERWRITERS LABORATORY
INV	INVERT	USDCCA	UNIFORM STANDARD DRAWINGS, CLARK COUNTY AREA
ITE	INSTITUTE OF TRANSPORTATION ENGINEERS	USDPCW	UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION
ITS	INTELLIGENT TRANSPORTATION SYSTEMS	UTACS	ULTRA-THIN ASPHALT CONCRETE SURFACE
K	K VALUE	V	VALVE
L	LENGTH	VC	LENGTH OF VERTICAL CURVE
LED	LIGHT EMITTING DIODE	VERT	VERTICAL
LF	LINEAR FOOT	VPU	VECTOR PROCESSING UNIT
LS	LUMP SUM	W	WATER (UTILITY PLANS)
LT	LEFT	WL	WATER LINE
LTG	LIGHTING	YG	YELLOW GREEN
LVVWD	LAS VEGAS VALLEY WATER DISTRICT	YR	YEAR
MAG	MARICOPA ASSOCIATION OF GOVERNMENT		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MLCP	MORTAR LINED AND COATED PIPE		

# COX COMMUNICATIONS REVIEW

APPROVAL:  
*Signature On File* 01/28/21  
Cox Communications Las Vegas, Inc Date

NOTE: COX COMMUNICATIONS WILL PERFORM ADJUSTMENTS AND RELOCATIONS OF COX COMMUNICATIONS FACILITIES CONCURRENTLY WITH THE REST OF CONSTRUCTION.

# CENTURYLINK REVIEW

THE AFFIXED CENTRAL TELEPHONE COMPANY d/b/a: CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA STATUTES, AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

APPROVAL:  
*Signature On File* 02/23/21  
Central Telephone Company Date  
d/b/a: CenturyLink

# LEGEND:

	CONSTRUCTION ITEM
	MONUMENT
	BASELINE W/ STATION
	RIGHT-OF-WAY
	PROPERTY LINE
	NDOT CONTROL OF ACCESS WITH FENCE
	NDOT CONTROL OF ACCESS WITHOUT FENCE
	CONCRETE BARRIER RAIL
	GUARDRAIL
	RETAINING WALL
	EASEMENT LINE
	ELECTRIC LINE
	CABLE TELEVISION LINE
	STORM DRAIN
	GAS LINE
	WATER LINE
	SEWER LINE
	TELEPHONE LINE
	FENCE
	CABLE FENCE
	UNDERGROUND UTILITY LINES
	OVERHEAD UTILITY LINES
	UTILITY STUB-OUT
	POTHOLE
	MANHOLE
	WATER OR GAS VALVE
	TELEPHONE AND/OR POWER POLE
	GUY WIRE
	SIGN MOUNTED ON METAL POST
	GROUND MOUNTED SIGN (DUAL SUPPORT)
	ELEVATION
	DROP INLET
	CONDUIT RUN
	TRANSFORMER PAD
	SANITARY SEWER MANHOLE (SSMH)

# STREETLIGHT/ITS/ELECTRICAL GENERAL NOTES

## STREET LIGHTING NOTES:

- ALL STREET LIGHTING WIRE SHALL BE COPPER WITH THW-2 INSULATION. ALL STREET LIGHT POLES SHALL BE WIRED TO THE LUMINAIRE WITH NO. 10 AWG COPPER WIRE.
- EACH LIGHT POLE SHALL BE INDIVIDUALLY GROUNDED USING A BARE NO. 4 STRANDED COPPER CONDUCTOR CONTINUOUS FROM THE GROUNDING PLATE, ATTACHING TO EACH ANCHOR BOLT, AND TERMINATING AT THE GROUNDING NUT. INTERIOR TO THE POLE SHAFT, A MINIMUM OF 18 INCH "TAIL" SHALL REMAIN FOLLOWING TERMINATION FOR CONNECTION TO OTHER GROUND WIRES.
- COBRA HEAD LUMINAIRES SHALL BE CONTROLLED BY A SINGLE PHOTO CELL CONTROL INSIDE THE SERVICE PEDESTAL.
- THE MINIMUM SIZE CONDUIT FOR STREET LIGHTING CIRCUITS SHALL BE 1/4" INCH DIAMETER CONDUIT.

## LEGEND:

	- NEW DUAL ARM STREETLIGHT
	- NEW STREETLIGHT
	- REPLACE LUMINAIRE ON EXISTING LIGHT POLE
	- EXISTING LIGHT POLE
	- NEW PULL BOX
	- NEW STREET LIGHT CONDUIT RUN
	- EXISTING SERVICE PEDESTAL
	- EXISTING CONTROLLER CABINET

## GENERAL ELECTRICAL NOTES:

- THE CONTRACTOR SHALL VERIFY THAT POLE LOCATIONS ARE WITHIN THE RIGHT-OF-WAY.
- SLIGHT ADJUSTMENTS TO POLE LOCATIONS WILL BE ALLOWED FOR OTHER CONSTRUCTION ITEMS AND RIGHT-OF-WAY LIMITATIONS AS APPROVED BY THE ENGINEER.
- CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES, WHICH HAVE A "STRIPED" APPEARANCE.
- ALL WIRE AND CABLE TO RUN TERMINAL TO TERMINAL WITHOUT SPLICING UNLESS OTHERWISE SPECIFIED AND AS APPROVED BY THE ENGINEER.
- ALL ITEMS REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CLARK COUNTY TRAFFIC OPERATIONS DIVISION AT 4315 STEPHANIE STREET, LAS VEGAS, NEVADA WITHIN 48 HOURS OF THEIR REMOVAL. CONTACT CLARK COUNTY OPERATIONS AT 455-7544 TO SCHEDULE DELIVERY. APPOINTMENT FOR DELIVERY IS REQUIRED.
- ELECTRICAL TRANSFORMER PAD SHALL BE INSTALLED BY THE CONTRACTOR. INSTALL PER NV ENERGY STANDARD RS-19.
- ALL CONDUIT ENDS SHALL BE SEALED WITH A DUCT SEALING COMPOUND. USE NSI INDUSTRIES DUCT SEALING COMPOUND OR AN APPROVED EQUAL. NO DIRECT PAYMENT SHALL BE MADE FOR THIS WORK.
- ALL STREET LIGHTING PULL BOXES SHALL BE CONCRETE. ALL NEW STREET LIGHTING PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED "STREET LIGHTING". THE COVER SHALL BE A HEAVY DUTY, SOLID, RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE VERTICAL STATIC LOAD OF 16,000 POUNDS APPLIED WITH A 1.3 SAFETY FACTOR.

Call before you Dig  
811  
1-800-227-2600  
1-702-227-2929

PLOT DATE: Friday, February 26, 2021 6:09:49 PM Elangiyil, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\DM54893320143776\_03\_NOTES SHEET.DWG

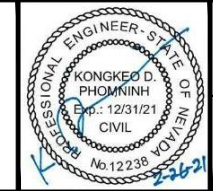
REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

GENERAL NOTES, LEGEND AND ABBREVIATIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No:	2043276.03	DRAWN BY:	FME
DESIGNED BY:	DP	CHECKED BY:	NLG
APPROVED BY:	KK	DATE:	02/26/2021



SCALE	SHEET No
HORIZ: NONE	<b>S-2</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION

## CLARK COUNTY WATER RECLAMATION DISTRICT (CCWRD) GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, LATEST EDITION AND THE UNIFORM STANDARDS FOR PUBLIC WORKS OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION.
2. ANY CONFLICTS BETWEEN THESE DOCUMENTS AND THE STANDARDS REFERENCED IN NOTE 1 MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PERFORMING ANY WORK.
3. ALL REVISIONS OF THE APPROVED PLANS MUST BE SUBMITTED TO THE CLARK COUNTY WATER RECLAMATION DISTRICT (DISTRICT) FOR REVIEW AND BE APPROVED PRIOR TO PROCEEDING WITH THE WORK. ALL WORK CONSTRUCTED WITHOUT THE APPROVAL OF THE DISTRICT MUST BE REMOVED AT THE CONTRACTORS EXPENSE.
4. ALL SANITARY SEWERS SHALL BE PVC SDR 35 SOLID WALL UNLESS OTHERWISE NOTED.
5. ALL SANITARY SEWER MAINS 8 INCHES AND LARGER AND ALL STUBS 8 INCHES AND LARGER ENTIRELY WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PUBLIC UNLESS OTHERWISE NOTED. ALL ON SITE SEWER INFRASTRUCTURE SHALL BE PRIVATE UNLESS OTHERWISE NOTED.
6. ALL SANITARY SEWER MAINS SHALL BE THE SAME MATERIAL, SIZE, & SLOPE BETWEEN MANHOLES.
7. ALL SEWER MAINS SHALL BE IN THEIR OWN TRENCHES. THERE WILL BE NO SHARED TRENCHES ALLOWED.
8. THE MINIMUM SLOPES FOR ALL PIPES SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
9. ALL SANITARY SEWER MANHOLES MUST BE LOCATED SUCH THAT THEY ARE ACCESSIBLE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
10. A DEBRIS TRAP MUST BE INSTALLED IN THE EXISTING SYSTEM AT THE POINT OF CONNECTION IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
11. ALL EXISTING MANHOLE CORROSION PROTECTION SYSTEMS MUST BE RESTORED TO THEIR ORIGINAL CONDITION, IF MODIFIED.
12. LOCATOR RIBBON AND MARKER BALLS SHALL BE PLACED ABOVE ALL NEW SEWER MAINS AND LATERALS IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS.
13. ALL EXISTING GRADE MUST BE RAISED TO WITHIN 18 INCHES OF FINAL GRADE PRIOR TO ANY SEWER TRENCHING.
14. PRIVATE SANITARY SEWER NOT REVIEWED OR APPROVED BY CCWRD.

I CERTIFY THAT THE ONLY DEVIATIONS FROM THE DESIGN AND CONSTRUCTION STANDARDS THAT ARE APPROVED BY THE CCWRD ARE LISTED BELOW:

- NONE

KONGKEO D. PHOMNINH, P.E., LICENSE #12238 DATE

Ernie Buo 01/28/2021  
CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES #: 20.1137  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

## LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES LVVWD PROJECT # 122505

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LAS VEGAS VALLEY WATER DISTRICT (LVVWD). FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.**
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). **THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.**
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802 TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNERS ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. **NO LEAD COMPLIANCE NOTE:**  
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION

*Signature On File*  
Las Vegas Valley Water District Planning and Engineering Services

Project No. 122505 First Approved Date: 01/12/21

Sheets: S-3, S-R-1, S-R-2, S-C-1, S-C-2, S-T-1, S-T-2, S-T-4, S-T-5, S-SL-1

### RTC/FAST NOTE

1. CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. LONNIE BROWN (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-290-1979 CELL OR 702-432-5300 GENERAL.
2. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT, SPLICED AND OR PULLED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. LONNIE BROWN TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUT DOWN COORDINATION.
3. CONTRACTOR MUST NOTIFY MR. LONNIE BROWN (RTC/FAST ARCHITECTURE PLANNER) AT 702-432-5307 OR AT BROWN.L@RTCSNV.COM, ONCE ALL PROJECT FIBER OPTIC WORK IS COMPLETE. A COPY OF AS-BUILD DRAWINGS MUST BE PROVIDED TO RTC/FAST UPON COMPLETION OF PROJECT.

### RTC TRANSIT NOTES

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY BUS STOPS AND BUS STOP AMENITIES SHALL BE AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY RTC TRANSIT OF PROPOSED BUS STOP CLOSURES AND/OR BUS STOP AMENITY DISRUPTIONS VIA NOTIFYRTCTRANSIT@RTCSNV.COM AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. NOTIFICATION OF BUS STOP CLOSURES INVOLVING REMOVAL OF EXISTING AMENITIES SHALL BE PROVIDED TO RTC TRANSIT AT LEAST 10 CALENDAR DAYS PRIOR TO THE START OF WORK.
2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURE SCHEDULE TO RTC TRANSIT WITH THE APPROVED TRAFFIC CONTROL PLAN AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY THE DURATION OF PROPOSED BUS STOP CLOSURES AND TEMPORARY BUS STOP RELOCATIONS AND TIMES OF DAY THAT STOPS ARE EXPECTED TO BE IMPACTED BY THE WORK. ALL BUS STOP CLOSURES, TEMPORARY BUS STOPS, AND TEMPORARY BUS TURNOUTS MUST BE APPROVED BY RTC TRANSIT STAFF PRIOR TO THE START OF WORK.

REVISED: JANUARY 24, 2019

### SOUTHWEST GAS NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCE BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.  
a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.
3. FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099.
5. FOR STANDBY WHEN EXCAVATING (INCLUDING SAW CUTTING AND PAVEMENT REMOVAL) OVER OR NEAR HIGH PRESSURE GAS LINES CONTACT 702-278-8451 48 HOURS PRIOR TO CONSTRUCTION.

### SOUTHWEST GAS REVIEW

APPROVAL:

Matthew Pedraza	20MJP4279	12/08/2020
Southwest Gas Corporation	SWG UID	Date

**CAUTION: HIGH PRESSURE GAS!!**  
CALL SOUTHWEST GAS AT 702-278-8451  
FOR STANDBY WHEN EXCAVATING  
(INCLUDING SAW CUTTING AND PAVEMENT  
REMOVAL) OVER OR NEAR HIGH PRESSURE  
GAS LINES 48 HOURS PRIOR TO CONSTRUCTION



PLOT DATE: Friday, February 26, 2021 5:09:50 PM Elangjyil, Frisco  
FILE NAME: C:\BMS\2\LB\USER\DM548933\20143776\_03\_NOTES SHEET.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

GENERAL NOTES,  
LEGEND AND ABBREVIATIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



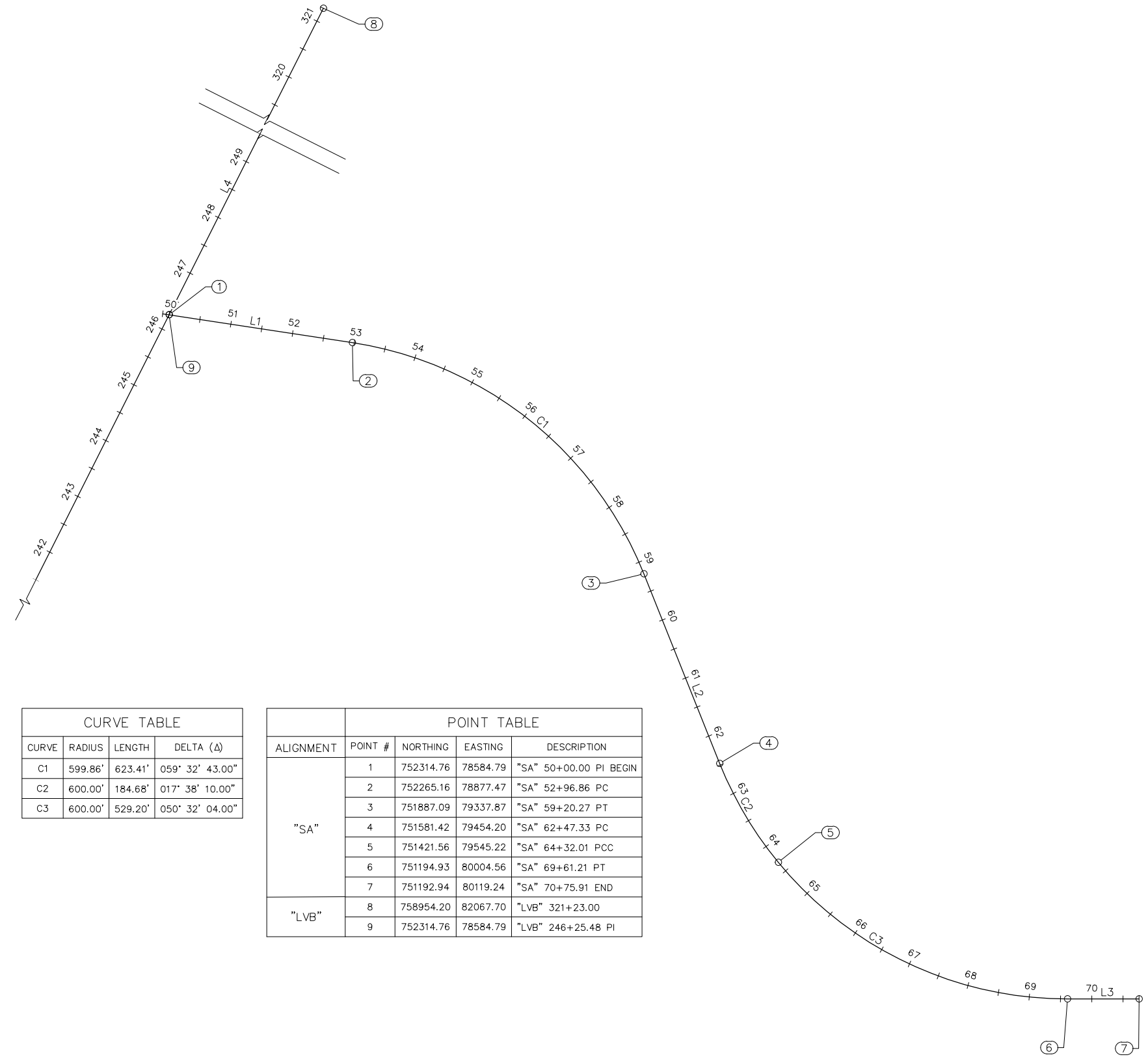
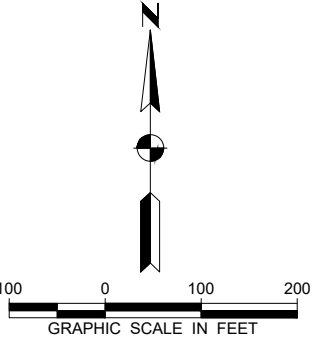
PROJECT No: 2043276.03 DRAWN BY: FME  
DESIGNED BY: DP CHECKED BY: NLG  
APPROVED BY: KK DATE: 02/26/2021

**WSP**  
300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101,  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-3</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION





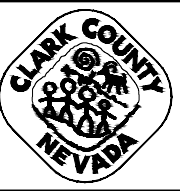
LINE TABLE		
LINE	DISTANCE	BEARING
L1	307.15'	S80° 22' 52.04"E
L2	327.06'	S20° 50' 09.04"E
L3	114.70'	S89° 00' 23.04"E
L4	9295.97'	N27° 40' 50.01"E

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA (Δ)	
C1	599.86'	623.41'	059° 32' 43.00"	
C2	600.00'	184.68'	017° 38' 10.00"	
C3	600.00'	529.20'	050° 32' 04.00"	

POINT TABLE				
ALIGNMENT	POINT #	NORTHING	EASTING	DESCRIPTION
"SA"	1	752314.76	78584.79	"SA" 50+00.00 PI BEGIN
	2	752265.16	78877.47	"SA" 52+96.86 PC
	3	751887.09	79337.87	"SA" 59+20.27 PT
	4	751581.42	79454.20	"SA" 62+47.33 PC
	5	751421.56	79545.22	"SA" 64+32.01 PCC
	6	751194.93	80004.56	"SA" 69+61.21 PT
	7	751192.94	80119.24	"SA" 70+75.91 END
"LVB"	8	758954.20	82067.70	"LVB" 321+23.00
	9	752314.76	78584.79	"LVB" 246+25.48 PI

PLOT DATE: Friday, February 26, 2021 5:10:00 PM Elangjvil, Frisco  
 FILE NAME: C:\BMS\2\LB\USER\BMS51887\20143276.03\_CONTROL\_PLANDWG

REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**CONTROL PLAN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 2043276.03    DRAWN BY: FME  
 DESIGNED BY: KDP    CHECKED BY: CAB  
 APPROVED BY: KK    DATE: 02/26/2021  
300 South 4th Street, Suite 1200, Las Vegas, Nevada 89101, Phone: 725.724.4400

SCALE		SHEET No
HORIZ:	NONE	<b>S-CP-1</b>
VERT:	NONE	
FIELD BOOK	NONE	L - 2174

ISSUED FOR CONSTRUCTION INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

**THIS SHEET INTENTIONALLY LEFT BLANK**

PLOT DATE: Friday, February 26, 2021 5:10:08 PM Elangjivi, Frisco  
 FILE NAME: C:\BMS\2\LB\USER\BMS48902\2043276.03\_TY-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
 SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

TYPICAL SECTIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 2043276.03    DRAWN BY: FME  
 DESIGNED BY: DP    CHECKED BY: CAB  
 APPROVED BY: KK    DATE: 02/26/2021

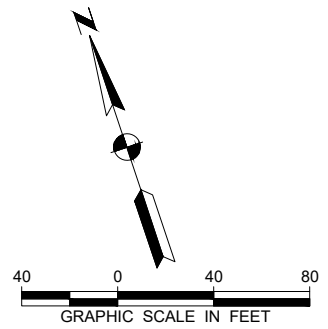
**WSP**

300 South 4th Street, Suite 1200,  
 Las Vegas, Nevada 89101  
 Phone: 725.724.4400

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	NONE

SHEET No  
**S-TY-1**  
 L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
 ISSUED FOR CONSTRUCTION

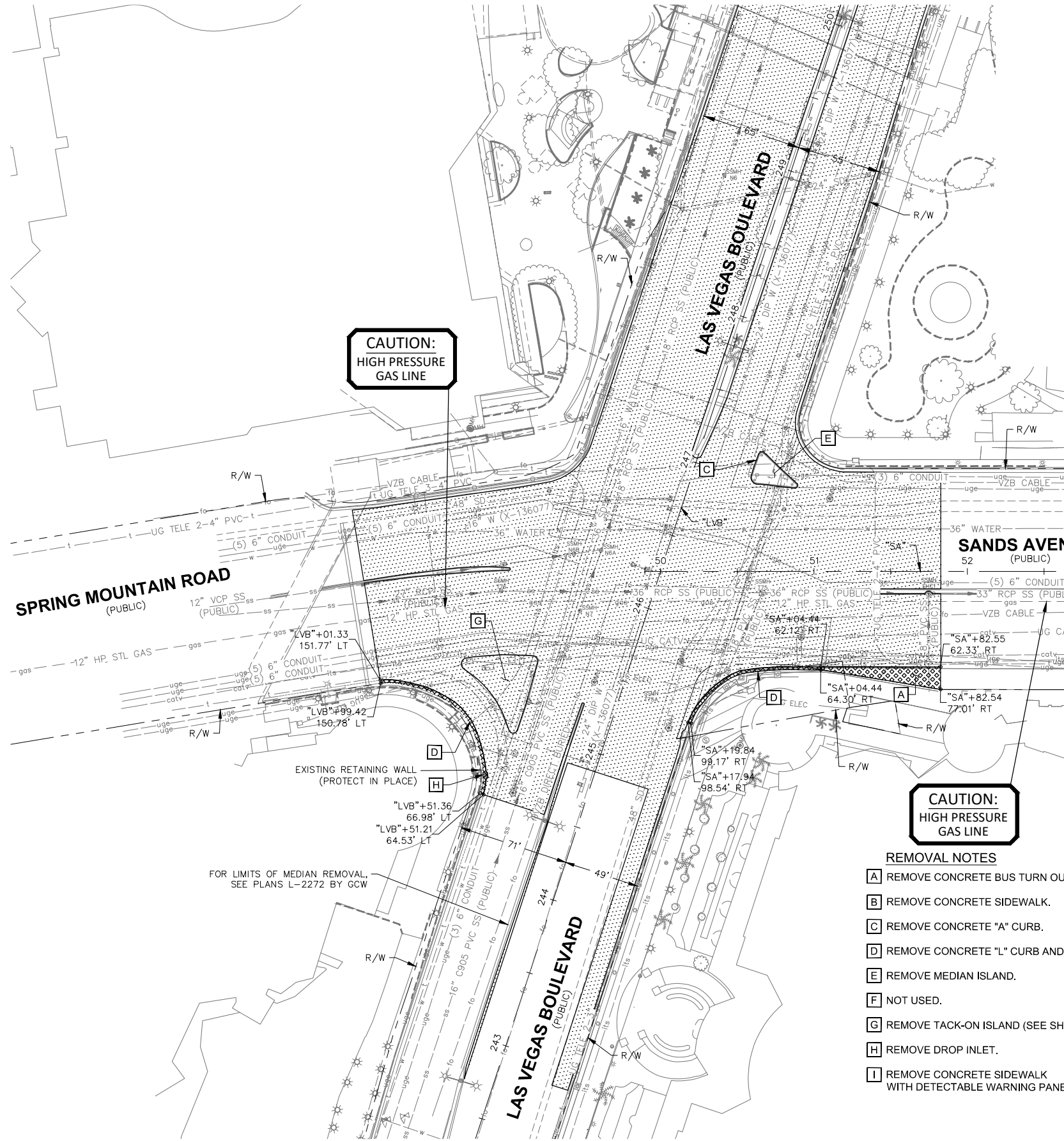


**CAUTION: HIGH PRESSURE GAS!!**  
 CALL SOUTHWEST GAS AT 702-278-8451  
 FOR STANDBY WHEN EXCAVATING OVER  
 OR NEAR HIGH PRESSURE GAS LINES  
 48 HOURS PRIOR TO CONSTRUCTION

**APPROVAL:**

Matthew Pedraza	20MJP4279	12/08/2020
Southwest Gas Corporation	SWG UID	Date

**CAUTION:  
HIGH PRESSURE  
GAS LINE**



**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**APPROVED FOR CONSTRUCTION**

*Signature On File*  
 Las Vegas Valley Water District Planning and Engineering Services  
 Project No. 122505 First Approved Date: 01/12/21

**APPROVAL:**

**DIGITALLY SIGNED BY E. BUO**  
 Clark County Water Reclamation District

01/28/21  
 Date  
 CCRWD PIPES Number is 20.1137  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT  
 FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER  
 RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION  
 STANDARDS.

- REMOVAL NOTES**
- [A] REMOVE CONCRETE BUS TURN OUT.
  - [B] REMOVE CONCRETE SIDEWALK.
  - [C] REMOVE CONCRETE "A" CURB.
  - [D] REMOVE CONCRETE "L" CURB AND GUTTER.
  - [E] REMOVE MEDIAN ISLAND.
  - [F] NOT USED.
  - [G] REMOVE TACK-ON ISLAND (SEE SHEET S-C-1).
  - [H] REMOVE DROP INLET.
  - [I] REMOVE CONCRETE SIDEWALK WITH DETECTABLE WARNING PANEL.

- LEGEND**
- [Hatched Box] LIMITS OF ROADWAY EXCAVATION WHERE NEW PAVEMENT WILL NOT BE CONSTRUCTED
  - [Cross-hatched Box] LIMITS OF SIDEWALK AND CURB & GUTTER REMOVAL
  - [Dotted Box] LIMITS OF SIDEWALK REMOVAL
  - [Grid-hatched Box] LIMITS OF BUS TURN OUT REMOVAL
  - [Stippled Box] LIMITS OF PAVEMENT REMOVAL, SEE PLANS L-2272 BY GCW

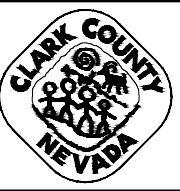
FOR LIMITS OF MEDIAN REMOVAL, SEE PLANS L-2272 BY GCW

EXISTING RETAINING WALL (PROTECT IN PLACE)

Call before you Dig  
 811  
 1-800-227-2600  
 1-702-227-2929

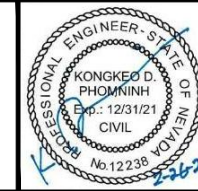
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REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**REMOVAL PLAN**  
 "SA" 50+00.00 to "SA" 55+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



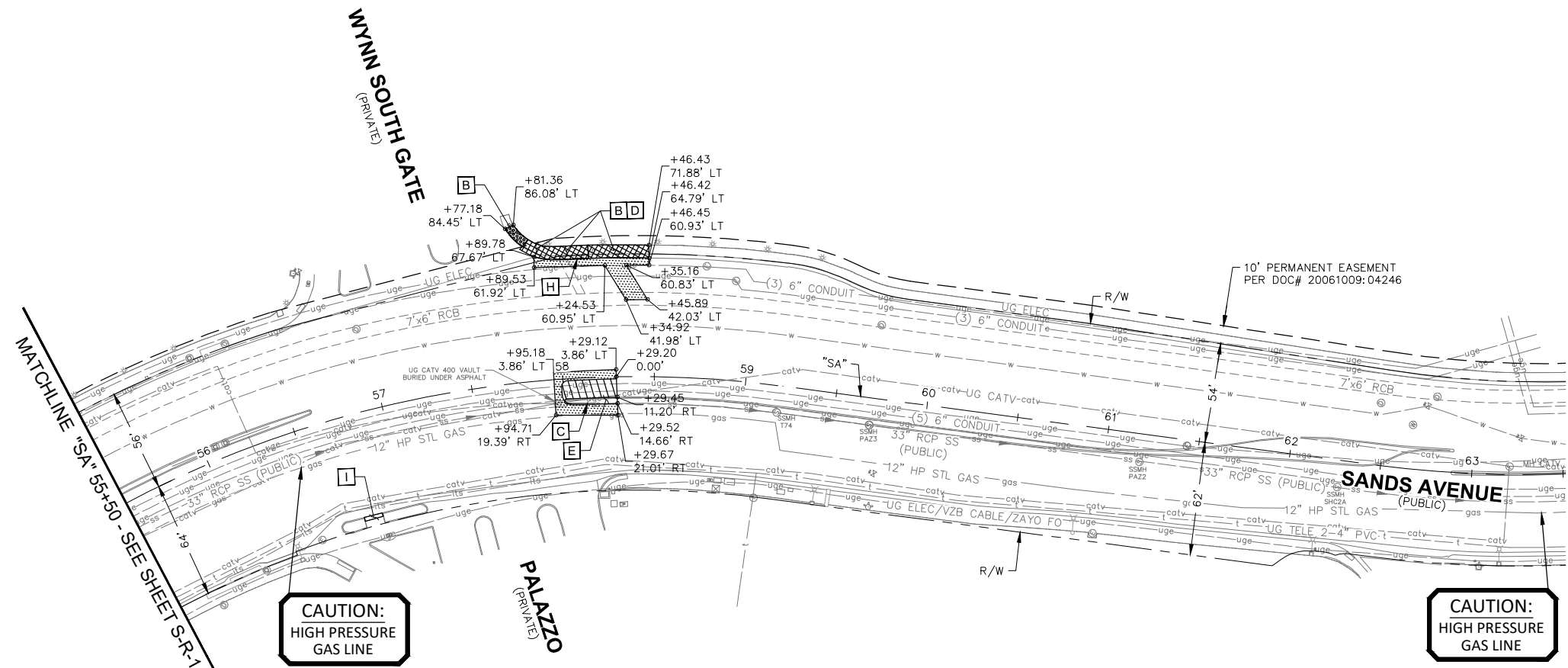
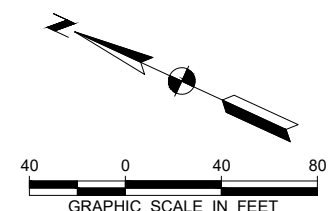
PROJECT No: 2043276.03 DRAWN BY: FME  
 DESIGNED BY: DP CHECKED BY: CAB  
 APPROVED BY: KK DATE: 02/26/2021

**WSP**  
 300 South 4th Street, Suite 1200  
 Las Vegas, Nevada 89101  
 Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-R-1</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
 ISSUED FOR CONSTRUCTION





**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**REMOVAL NOTES**

- A** REMOVE CONCRETE BUS TURN OUT.
- B** REMOVE CONCRETE SIDEWALK.
- C** REMOVE CONCRETE "A" CURB.
- D** REMOVE CONCRETE "L" CURB AND GUTTER.
- E** REMOVE MEDIAN ISLAND.
- F** NOT USED.
- G** REMOVE TACK-ON ISLAND (SEE SHEET S-C-1).
- H** REMOVE DROP INLET.
- I** REMOVE CONCRETE SIDEWALK WITH DETECTABLE WARNING PANEL.

**LEGEND**

- LIMITS OF ROADWAY EXCAVATION WHERE NEW PAVEMENT WILL NOT BE CONSTRUCTED
- LIMITS OF SIDEWALK AND CURB & GUTTER REMOVAL
- LIMITS OF SIDEWALK REMOVAL
- LIMITS OF BUS TURN OUT REMOVAL
- LIMITS OF PAVEMENT REMOVAL, SEE PLANS L-2272 BY GCW

**CAUTION: HIGH PRESSURE GAS!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVED FOR CONSTRUCTION  
*Signature On File*  
Las Vegas Valley Water District Planning and Engineering Services  
Project No. 122505 First Approved Date: 01/12/21

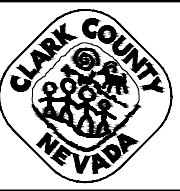
APPROVAL:  
DIGITALLY SIGNED BY E. BUO  
Clark County Water Reclamation District  
01/28/21  
Date  
CCWRD PIPES Number Is 20.1137  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVAL:  
Matthew Pedraza 20MJP4279 12/08/2020  
Southwest Gas Corporation SWG UID Date



PLOT DATE: Friday, February 26, 2021 5:10:53 PM Elangjyl, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\BMS48901\20143276.03\_R-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED

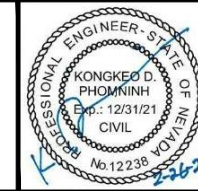


**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**REMOVAL PLAN**

**"SA" 55+50.00 to "SA" 63+50.00**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

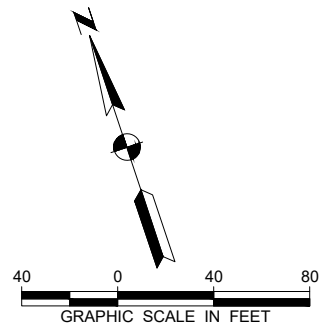


PROJECT No: 2043276.03 DRAWN BY: FME  
DESIGNED BY: DP CHECKED BY: CAB  
APPROVED BY: KK DATE: 02/26/2021

**WSP**  
300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-R-2</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION



**NOTES**

1. CONTRACTOR TO CONTACT EXTENET SYSTEMS (KATHY PAKI) AT 702-239-2542 TO CONFIRM LOCATION OF SENSITIVE FACILITIES PRIOR TO DEMOLITION SO AS TO NOT CAUSE COMMUNICATIONS OUTAGES.

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**CAUTION: HIGH PRESSURE GAS!!  
CALL SOUTHWEST GAS AT 702-278-8451  
FOR STANDBY WHEN EXCAVATING OVER  
OR NEAR HIGH PRESSURE GAS LINES  
48 HOURS PRIOR TO CONSTRUCTION**

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**APPROVAL:**

Matthew Pedraza	20MJP4279	12/08/2020
Southwest Gas Corporation	SWG UID	Date

**APPROVED FOR CONSTRUCTION**

*Signature On File*  
Las Vegas Valley Water District Planning and Engineering Services  
Project No. 122505 First Approved Date: 01/12/21

**APPROVAL:**

**DIGITALLY SIGNED BY E. BUO**  
Clark County Water Reclamation District  
01/28/21  
Date  
CCWRD PIPES Number Is 20.1137  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**CONSTRUCTION NOTES**

1. CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER USDCCA DWG. NO. 216.
2. CONSTRUCT 4-INCH CONCRETE SIDEWALK PER USDCCA DWG. NO. 234.
3. CONSTRUCT MODIFIED CONCRETE SIDEWALK RAMP (CASE I) PER USDCCA DWG. NO. 235 AND DETAIL AS SHOWN.
4. CONSTRUCT CONCRETE TACK-ON MEDIAN ISLAND PER USDCCA DWG. NO. 220.1.S1.
5. VERTICALLY ADJUST EXISTING SANITARY SEWER MANHOLE TO FINISHED GRADE SEE PLANS L-2272 BY GCW.
6. RECONSTRUCT PORTION OF EXISTING BUS TURN OUT PER USDCCA DWG NO. 234.1.
7. VERTICALLY ADJUST ELECTRICAL MANHOLE.
8. VERTICALLY ADJUST EXISTING CATHODIC TEST STATION TO FINISHED GRADE PER UDACS SECTION 2.09.01.
9. CONSTRUCT TYPE "DM" DROP INLET (L=19.5 FT), INSTALL 48" RCP (SEE LATERAL 1/S-LP-1)
10. RELOCATE EXISTING EXTENET PULL BOXES (BY OTHERS) SEE NOTE 1.
11. CONSTRUCT 4" CONCRETE PAD OVER 5" TYPE II AGGREGATE BASE. INSTALL 2'x5' DETECTABLE WARNING PANEL ON BOTH SIDES OF PAD AS SHOWN.
12. CONSTRUCT CONCRETE "A" TYPE ISLAND CURB PER USDCCA DWG NO. 218 AND DWG. NO. 219
13. CONSTRUCT 4-INCH CONCRETE MEDIAN ISLAND PER USDCCA DWG. NO. 218.
14. CONSTRUCT 6" CONCRETE SIDEWALK OVER 5" OF TYPE II AGGREGATE BASE.
15. REMOVE ELECTRICAL VAULT, INSTALL A TRAFFIC RATED VAULT PER NV ENERGY STD DWG NO. RS-83.

**LEGEND**

■ LIMITS OF PAVEMENT RECONSTRUCTION.  
SEE PLANS L-2272 BY GCW

Call before you dig  
Call 811  
1-800-227-2600

Call before you dig  
Call 811  
1-702-227-2929

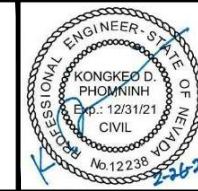
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REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**CONSTRUCTION PLAN**  
"SA" 50+00.00 to "SA" 55+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



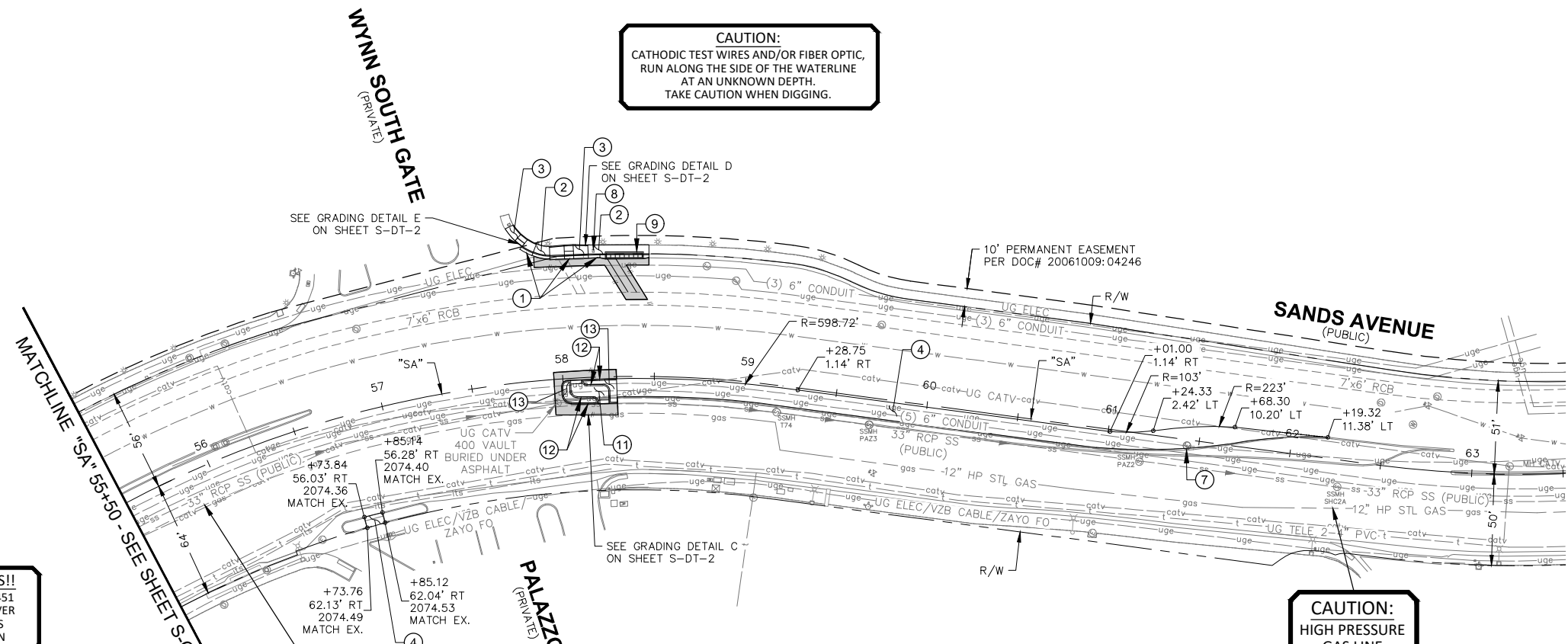
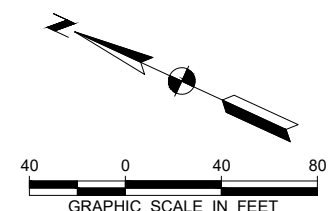
PROJECT No: 2043276.03 DRAWN BY: FME  
DESIGNED BY: DP CHECKED BY: CAB  
APPROVED BY: KK DATE: 02/26/2021

**WSP**  
300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-C-1</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION





**CAUTION:**  
CATHODIC TEST WIRES AND/OR FIBER OPTIC,  
RUN ALONG THE SIDE OF THE WATERLINE  
AT AN UNKNOWN DEPTH.  
TAKE CAUTION WHEN DIGGING.

**CAUTION: HIGH PRESSURE GAS!!**  
CALL SOUTHWEST GAS AT 702-278-8451  
FOR STANDBY WHEN EXCAVATING OVER  
OR NEAR HIGH PRESSURE GAS LINES  
48 HOURS PRIOR TO CONSTRUCTION

**CAUTION:**  
HIGH PRESSURE  
GAS LINE

**CAUTION:**  
HIGH PRESSURE  
GAS LINE

**APPROVAL:**  
  
Matthew Pedraza      20MJP4279      12/08/2020  
Southwest Gas Corporation      SWG UID      Date

**APPROVED FOR CONSTRUCTION**  
  
*Signature On File*  
Las Vegas Valley Water District Planning and Engineering Services  
Project No. 122505      First Approved Date: 01/12/21

**APPROVAL:**  
**DIGITALLY SIGNED BY E. BUO**  
Clark County Water Reclamation District  
01/28/21  
Date  
COWRD PIPES Number Is 20.1137  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT  
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RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION  
STANDARDS.

**CONSTRUCTION NOTES**

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- 15 REMOVE ELECTRICAL VAULT , INSTALL A TRAFFIC RATED VAULT PER NV ENERGY STD DWG NO. RS-83.

**LEGEND**

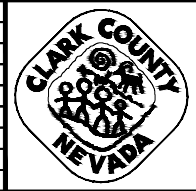
LIMITS OF PAVEMENT RECONSTRUCTION,  
SEE PLANS L-2272 BY GCW

Call before you dig  
Call 811  
1-800-227-2600

Call before you dig  
Call 811  
1-702-227-2929

PLOT DATE: Friday, February 26, 2021 5:11:37 PM Elangjvil, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\BMS48898\20143276.03\_C-1.DWG

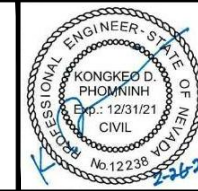
REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**CONSTRUCTION PLAN**  
"SA" 55+50.00 to "SA" 63+50.00

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 2043276.03      DRAWN BY: FME  
DESIGNED BY: DP      CHECKED BY: CAB  
APPROVED BY: KK      DATE: 02/26/2021

**wsp**  
300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101,  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-C-2</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

ISSUED FOR CONSTRUCTION INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

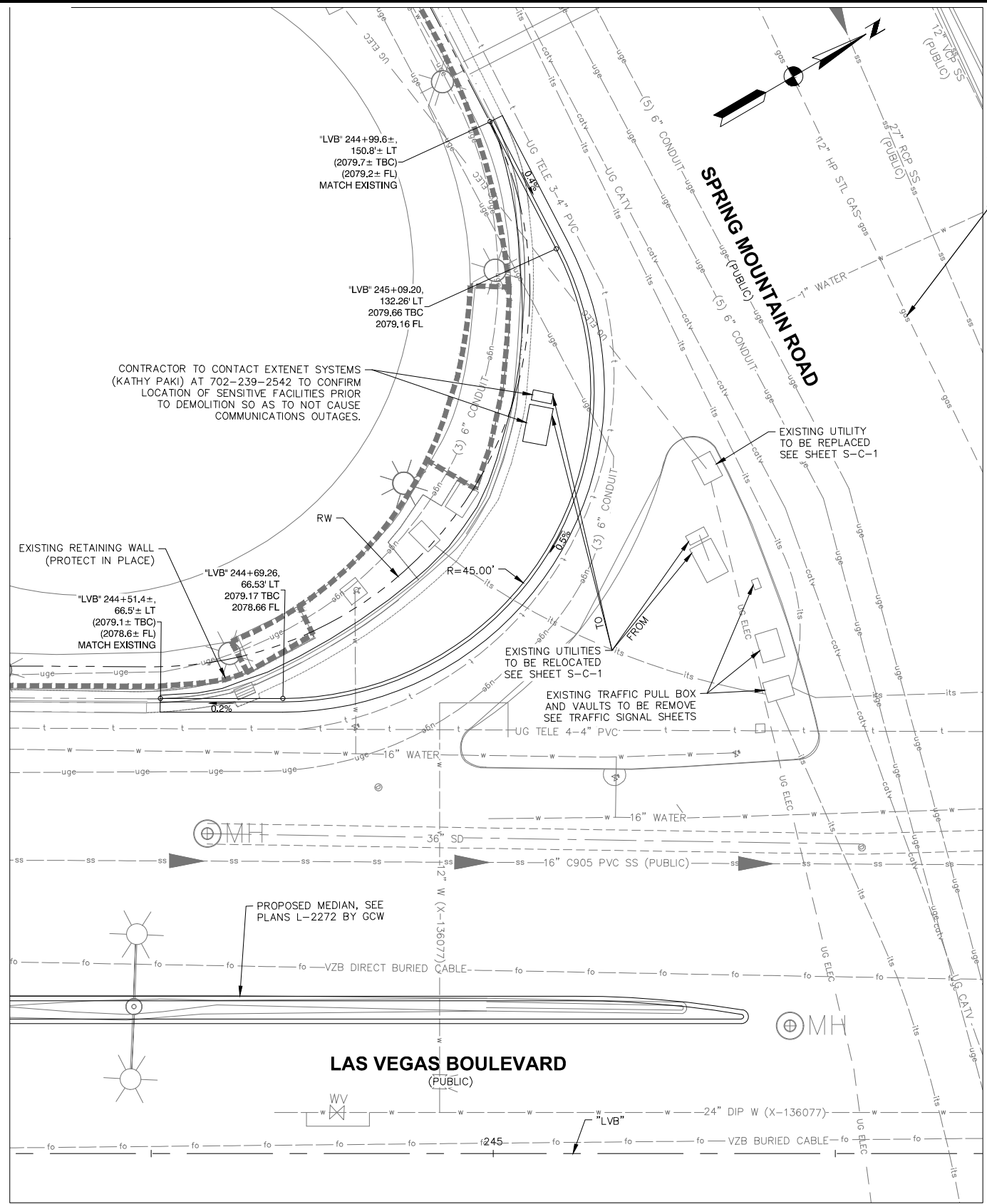


INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

**CAUTION: HIGH PRESSURE GAS!!**  
 CALL SOUTHWEST GAS AT 702-278-8451  
 FOR STANDBY WHEN EXCAVATING OVER  
 OR NEAR HIGH PRESSURE GAS LINES  
 48 HOURS PRIOR TO CONSTRUCTION

**CAUTION:  
 HIGH PRESSURE  
 GAS LINE**

APPROVAL:  
 Matthew Pedraza 20MJ4279 12/08/2020  
 Southwest Gas Corporation SWG UID Date



**DETAIL A - GRADING PLAN**  
 SW CORNER OF LAS VEGAS BOULEVARD AND  
 SANDS AVENUE  
 SCALE 1"=10'

PLOT DATE: Friday, February 26, 2021 5:12:12 PM Elangjivi, Frisco  
 FILE NAME: C:\BMS\2\LBUS\USER\BMS48899\2043276.03\_DT-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
 SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**GRADING DETAILS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



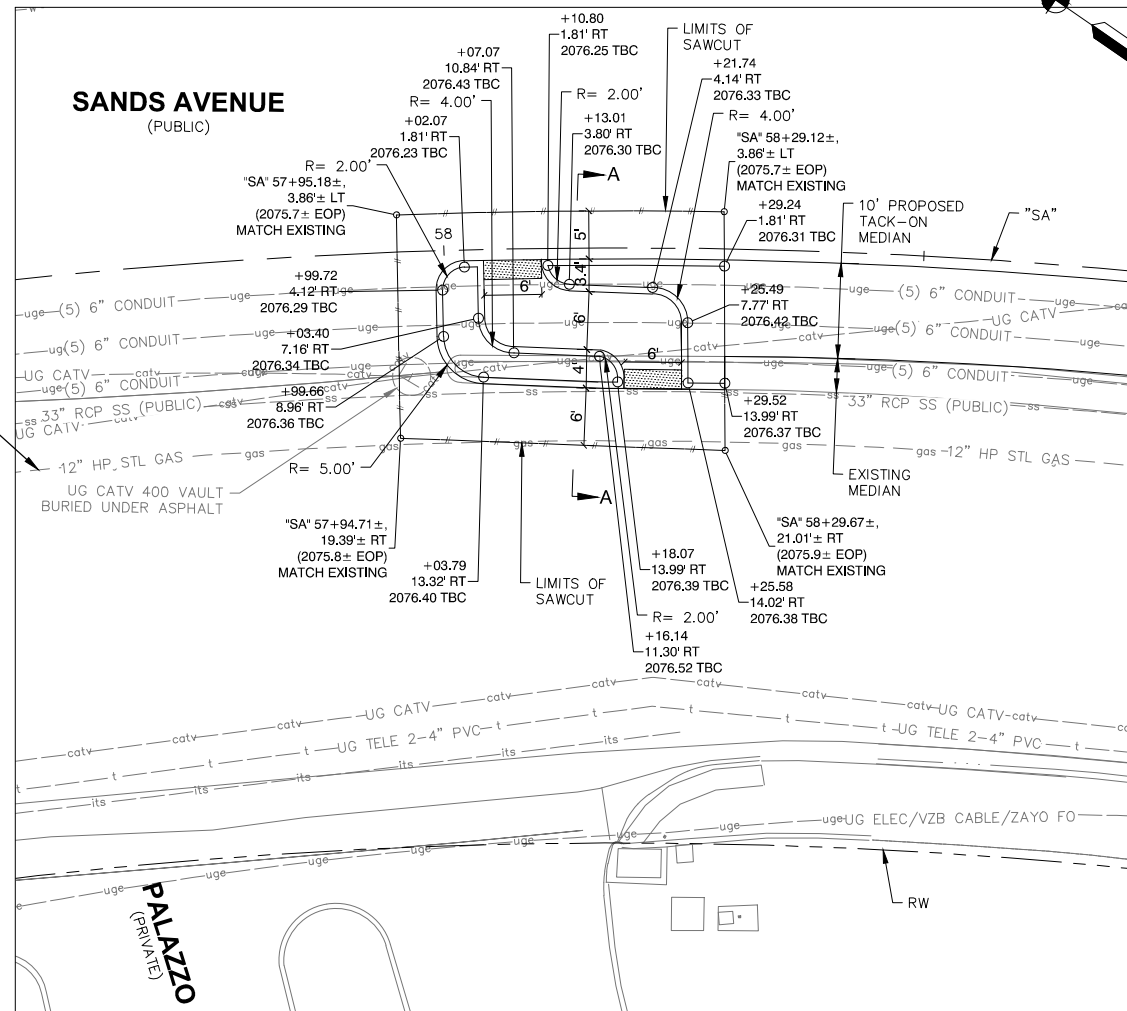
PROJECT No: 2043276.03 DRAWN BY: FME  
 DESIGNED BY: DP CHECKED BY: CAB  
 APPROVED BY: KK DATE: 02/26/2021

**WSP**  
 300 South 4th Street, Suite 1200,  
 Las Vegas, Nevada 89101  
 Phone: 725.724.4400

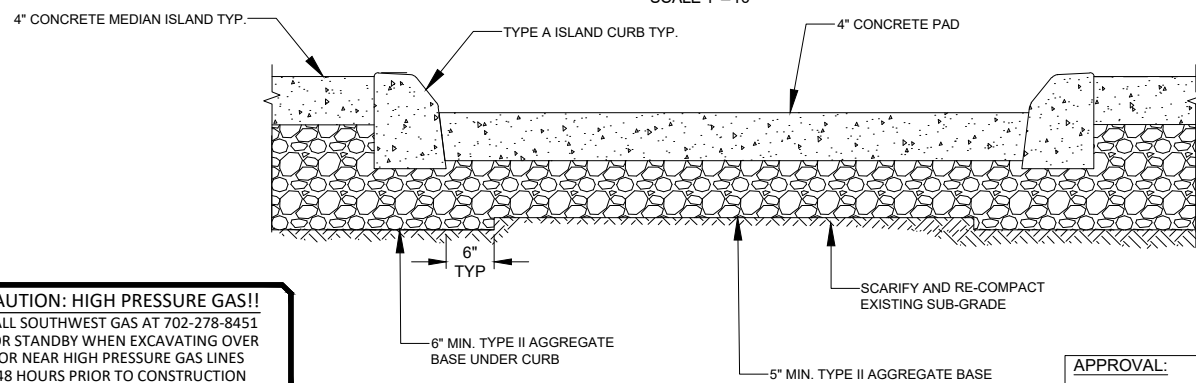


SCALE	SHEET No
HORIZ: NONE	<b>S-DT-1</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

ISSUED FOR CONSTRUCTION



**DETAIL C - GRADING PLAN**  
 MEDIAN CROSSING AT WYNN SOUTH GATE AND SANDS AVENUE  
 SCALE 1"=10'

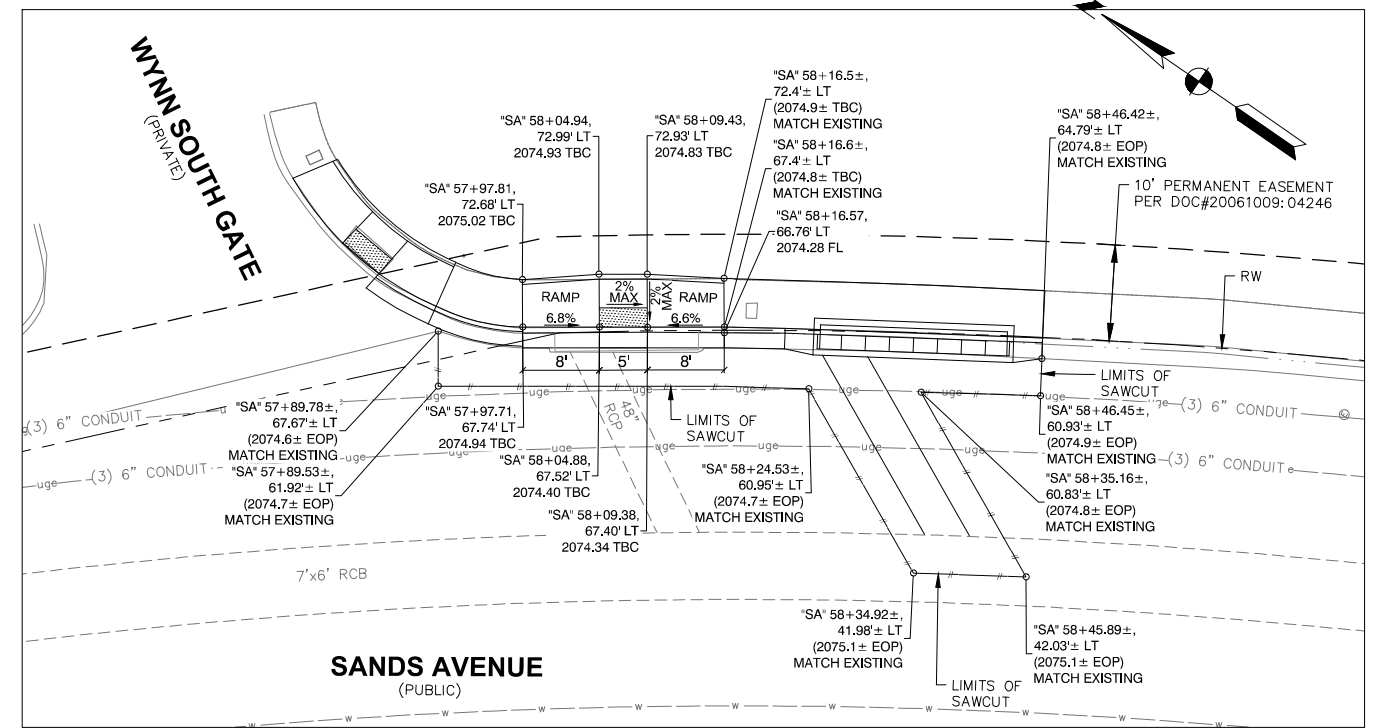


**SECTION A-A**  
 PROPOSED MEDIAN CROSSING

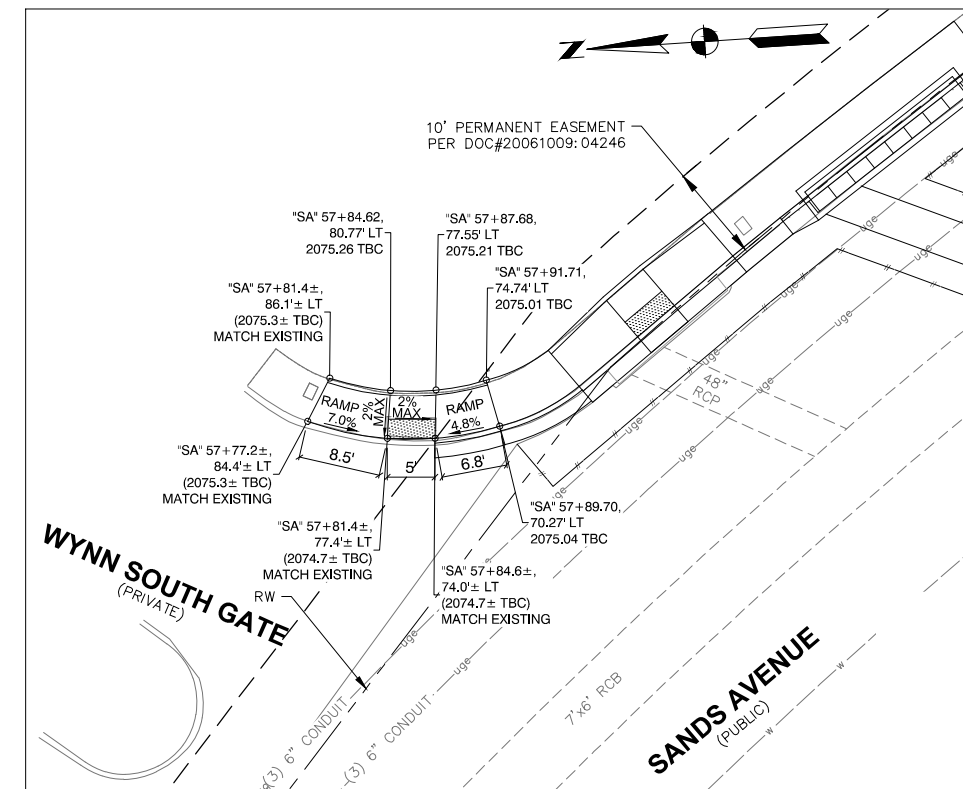
**CAUTION: HIGH PRESSURE GAS!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

**APPROVAL:**  
 Matthew Pedraza 20MJP4279 12/08/2020  
 Southwest Gas Corporation SWG UID Date

**APPROVAL:**  
 DIGITALLY SIGNED BY E. BUO  
 Clark County Water Reclamation District  
 01/28/21  
 Date  
 COWRD PIPES Number is 201137  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



**DETAIL D - GRADING PLAN**  
 NE SIDEWALK RAMP AT SANDS AVENUE AND WYNN SOUTH GATE DRIVE  
 SCALE 1"=10'

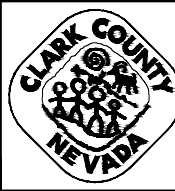


**DETAIL E - GRADING PLAN**  
 NE CORNER OF SANDS AVENUE AND WYNN SOUTH GATE DRIVE  
 SCALE 1"=10'

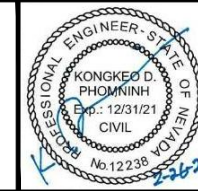
Call before you dig  
 1-800-227-2600  
 Call before you dig  
 1-702-227-2929

PLOT DATE: Friday, February 26, 2021 5:12:23 PM Elangyil, Frisco  
 FILE NAME: C:\BMS\2\LBUS\USER\BMS-48899\20143276.03\_DT-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**GRADING DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

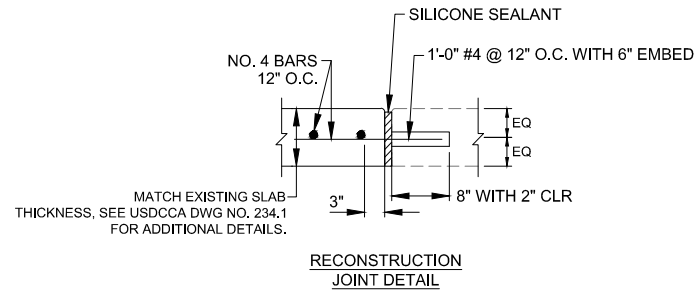


PROJECT No: 2043276.03 DRAWN BY: FME  
 DESIGNED BY: DP CHECKED BY: CAB  
 APPROVED BY: KK DATE: 02/26/2021

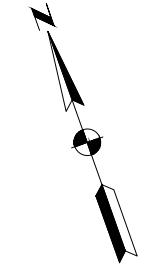
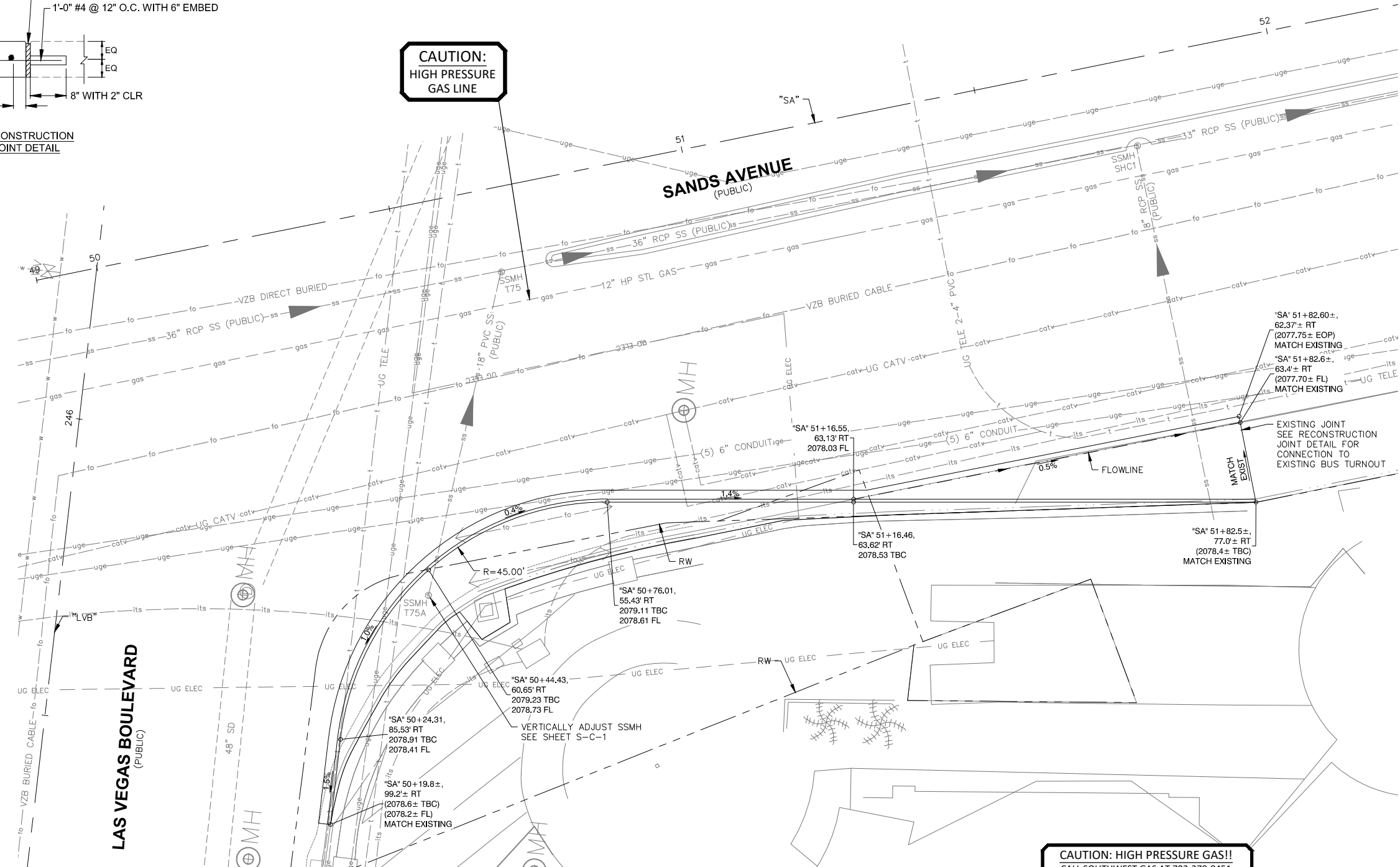
**WSP**  
 300 South 4th Street, Suite 1200  
 Las Vegas, Nevada 89101  
 Phone: 725.724.6600

SCALE	SHEET No
HORIZ: NONE	<b>S-DT-2</b>
VERT: NONE	
FIELD BOOK: NONE	
	L - 2174

ISSUED FOR CONSTRUCTION



**CAUTION:  
HIGH PRESSURE  
GAS LINE**



**DETAIL F - GRADING PLAN**  
SE CORNER OF LAS VEGAS BOULEVARD AND SANDS AVENUE  
SCALE 1"=10'

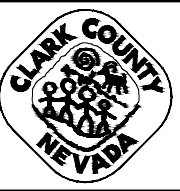
**CAUTION: HIGH PRESSURE GAS!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVAL:  
  
Matthew Pedraza      20MJP4279      12/08/2020  
Southwest Gas Corporation      SWG UID      Date

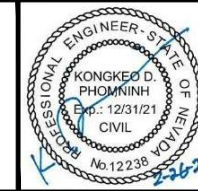


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REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**GRADING DETAILS**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 2043276.03      DRAWN BY: FME  
DESIGNED BY: DP      CHECKED BY: CAB  
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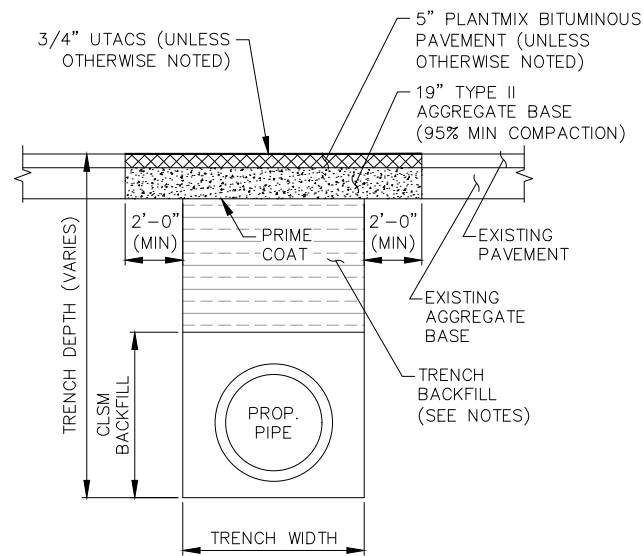
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Las Vegas, Nevada 89101  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-DT-3</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

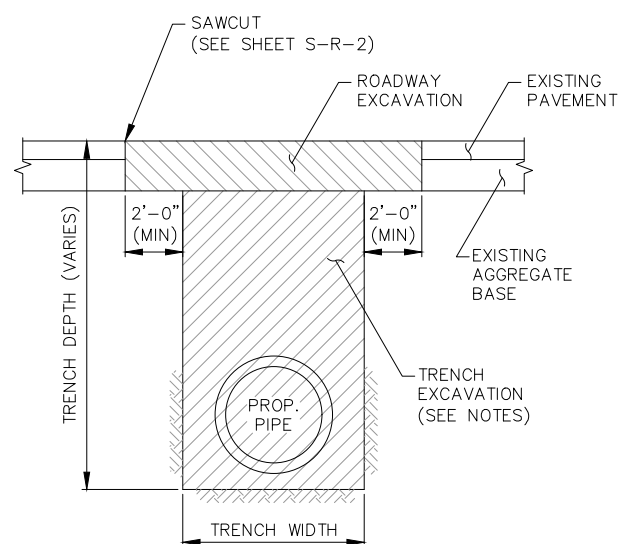
INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

ISSUED FOR CONSTRUCTION

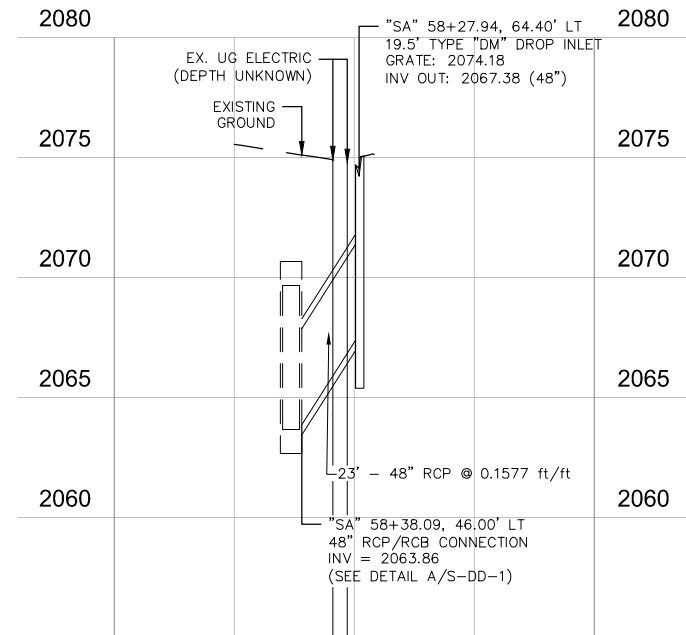




**BACKFILL - PAVED AREAS**



**EXCAVATION - PAVED AREAS**



**1 LATERAL 1**  
S-LP-1

NOTES:  
1. SEE SHEET S-C-2 FOR PLAN VIEW

**NOTES:**

1. SEE USDCCA NO. 503.2 FOR ADDITIONAL DETAILS NOT SHOWN.
2. THE SAWCUT AND PAVEMENT LIMITS ARE BASED ON VERTICAL WALL TRENCHES SHOWN HEREIN. THE FINAL SAWCUT AND PAVEMENT LIMITS SHALL BE APPROVED BY THE FIELD INSPECTOR.
3. USE NORMAL BEDDING PER USDCCA NO. 505 UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER.
4. TRENCH WALLS SHOULD BE APPROPRIATELY SHORED OR LAID BACK PER OSHA REQUIREMENTS.

**A PIPE TRENCH EXCAVATION**  
S-LP-1 NTS



PLOT DATE: Friday, February 26, 2021 5:12:56 PM Elangiyil, Frisco  
FILE NAME: C:\BMS\2\B\USER\BMS48896\2043276.03\_LP-1.DWG

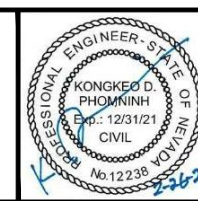
REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**LATERAL PROFILE**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No:	2043276.03	DRAWN BY:	FME
DESIGNED BY:	FME	CHECKED BY:	JSD
APPROVED BY:	KK	DATE:	02/26/2021

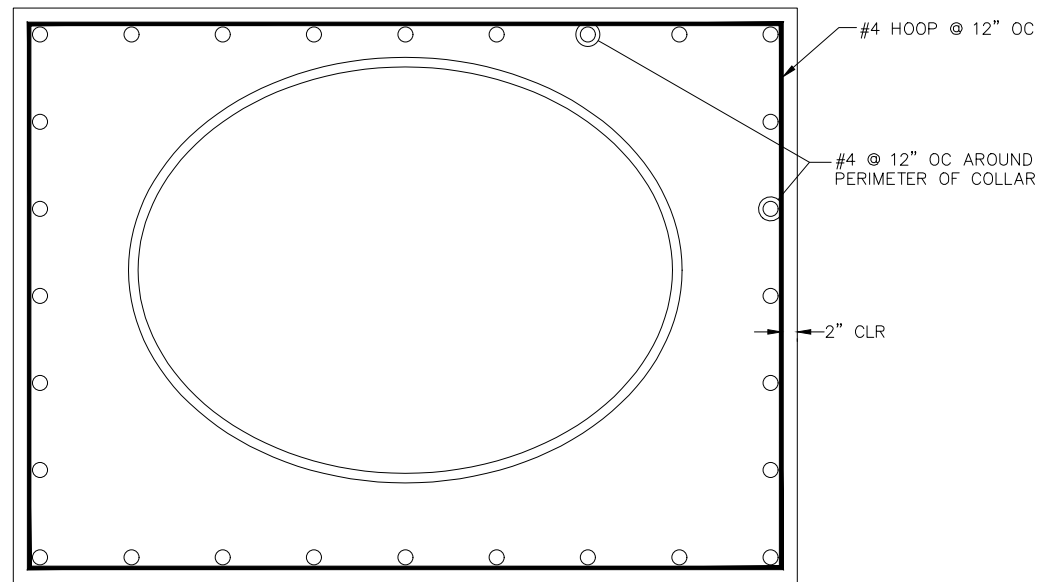
**WSP**

300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

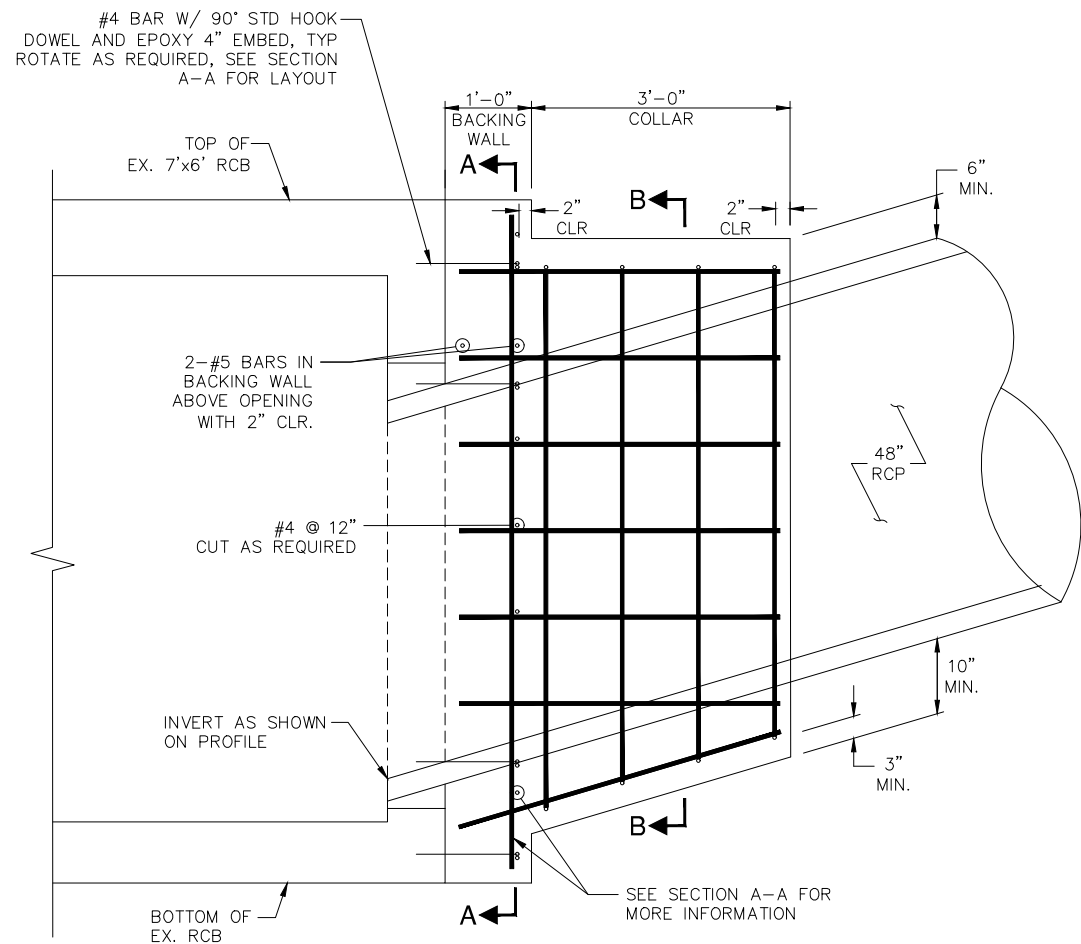
SCALE	SHEET No
HORIZ: NONE	<b>S-LP-1</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

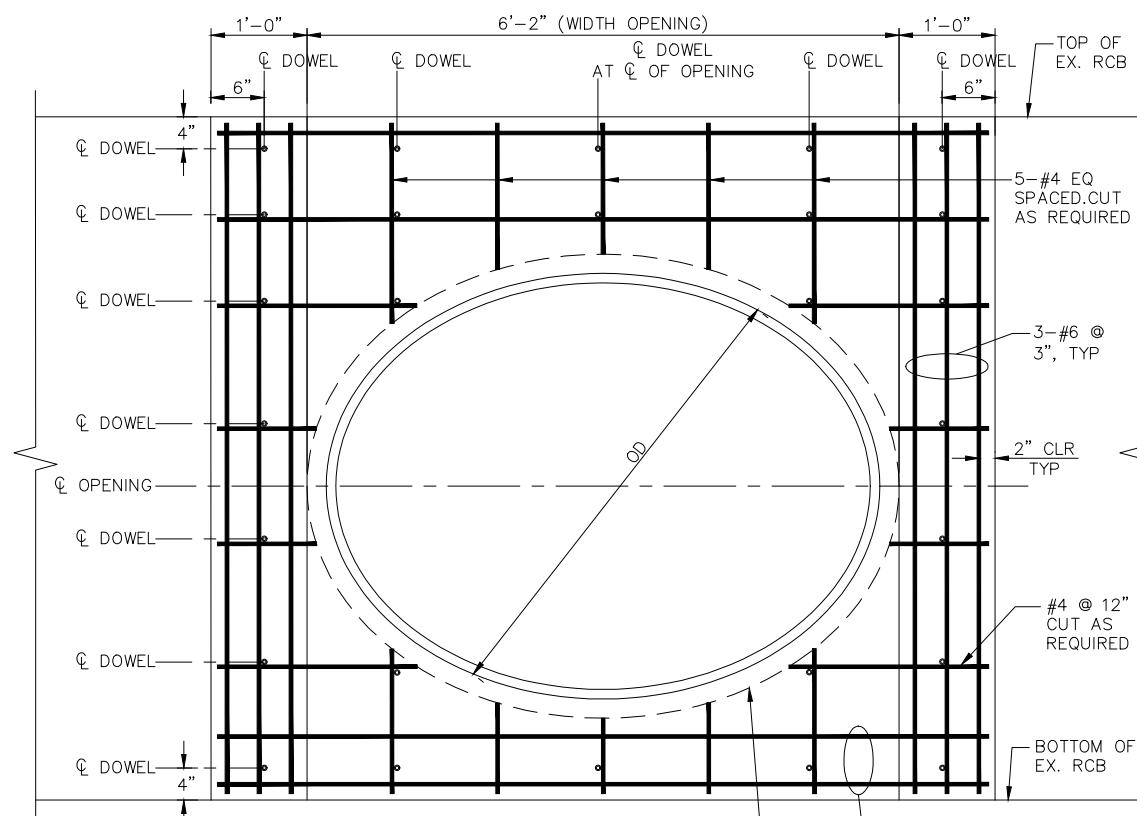
ISSUED FOR CONSTRUCTION



SECTION B-B



ELEVATION



SECTION A-A

A RCP TO EXISTING RCB CONNECTION  
S-DD-1 NTS

NOTES:

- DESIGN SPECIFICATIONS: "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" 8TH EDITION 2017 WITH INTERIM REVISIONS TO DATE.
- CONTRACT SPECIFICATIONS: "CLARK COUNTY UNIFORM STANDARD SPECIFICATIONS" EXCEPT AS NOTED BELOW AND IN THE SPECIAL PROVISIONS FOR THIS CONTRACT.
- ALL CONCRETE FOR REINFORCED CONCRETE BOX CULVERTS (PRECAST AND CAST-IN-PLACE), CONFLUENCE STRUCTURES AND TRANSITION STRUCTURES, SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI. ALL CONCRETE SHALL HAVE TYPE V CEMENT. ALL CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE. UNLESS OTHERWISE NOTED ALL REINFORCING BARS SHALL HAVE 2" CLEAR CONCRETE COVER. CHAMFER ALL EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- CONCRETE CONSTRUCTION JOINTS DESIGNATED AS A "PERMISSIBLE JOINT" OR AS AN "OPTIONAL CONSTRUCTION JOINT" MAY BE INCORPORATED INTO THE CONSTRUCTION AT THE CONTRACTORS OPTION. JOINTS DESIGNATED AS A "CONSTRUCTION JOINT" ARE CONSIDERED MANDATORY AND SHALL BE INCORPORATED INTO THE CONSTRUCTION UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED. (WHEN CONSIDERED AS BARS TO CONTROL TEMPERATURE, SHRINKAGE AND DISTRIBUTION STRESSES BY THE ENGINEER, MAY BE ADJUSTED BY THE CONTRACTOR UPON CONCURRENCE AND APPROVAL OF THE ENGINEER.) DIMENSIONS RELATING TO BAR SPACING ARE CENTER TO CENTER OF BAR.
- UNLESS OTHERWISE NOTED, THE FOLLOWING TABLE APPLIES TO ALL REINFORCED CONCRETE DRAINAGE STRUCTURES.

BAR SIZE	LAP DISTANCE
#4	2'-0"
#5	2'-4"
#6	2'-9"
#7	3'-6"
#8	4'-7"
#9	5'-10"
#10	7'-4"

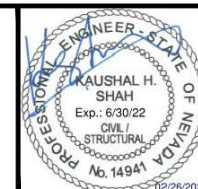


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FILE NAME: C:\BMS\2\LB\USER\BMS488620143276.03\_DD-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



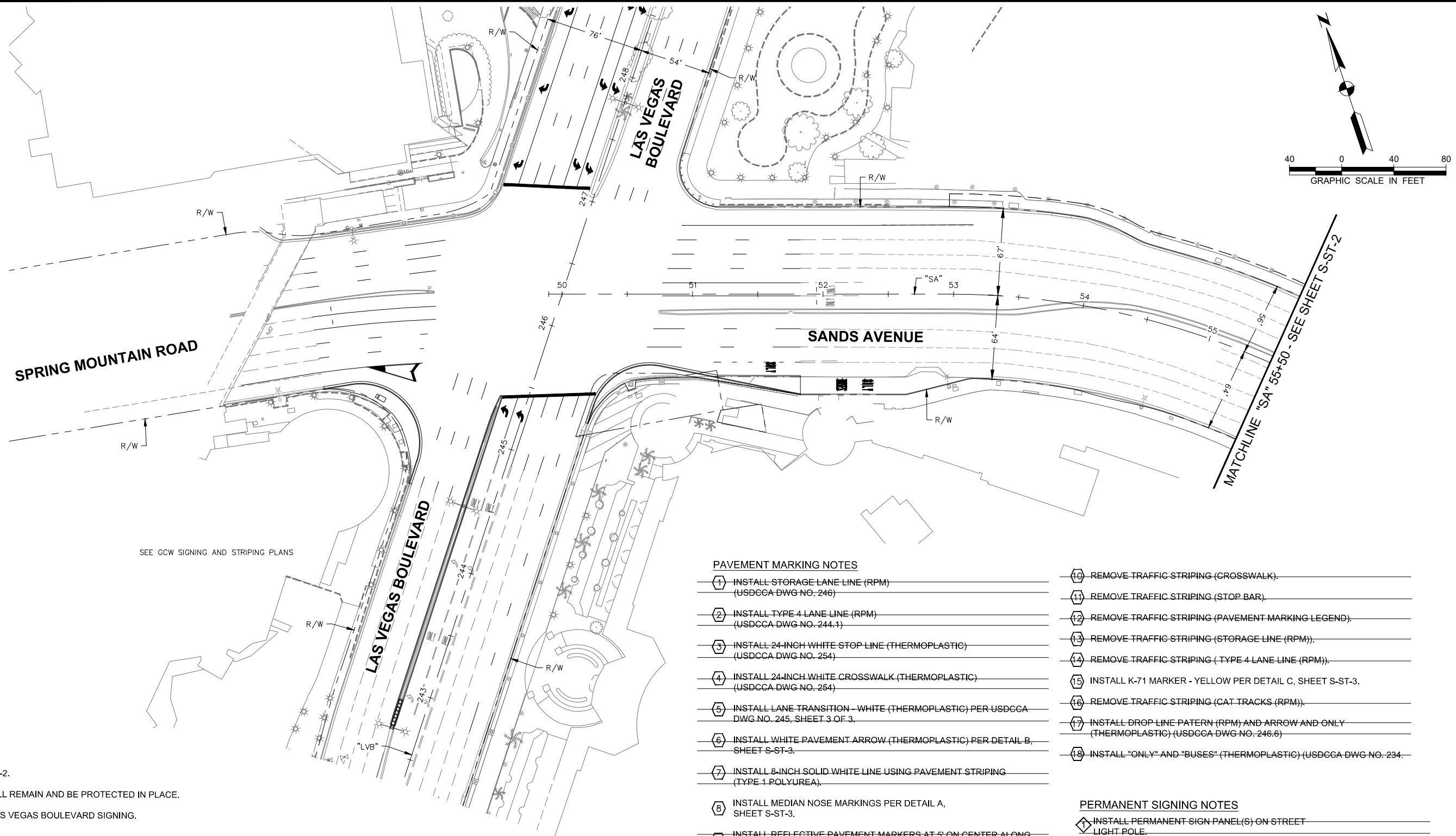
INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
DRAINAGE DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 2043276.03 DRAWN BY: FME  
DESIGNED BY: HD CHECKED BY: FHS  
APPROVED BY: KK DATE: 02/26/2021  
WSP  
300 South 4th Street, Suite 1200, Las Vegas, Nevada 89101, Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-DD-1</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION



SEE GCW SIGNING AND STRIPING PLANS

SEE GCW SIGNING AND STRIPING PLANS

**SIGNING NOTES**

1. SEE GENERAL NOTES ON SHEET S-2.
2. EXISTING SIGNS NOT SHOWN SHALL REMAIN AND BE PROTECTED IN PLACE.
3. SEE PLANS L-2272 BY GCW FOR LAS VEGAS BOULEVARD SIGNING.

**STRIPING NOTES**

1. SEE GENERAL NOTES ON SHEET S-2.
2. EXISTING MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED USING METHODS APPROVED BY THE ENGINEER.
3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC MARKINGS, SUCH MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER.
4. SEE PLANS L-2272 BY GCW FOR LAS VEGAS BOULEVARD STRIPING.

**PAVEMENT MARKING NOTES**

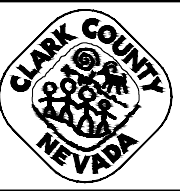
- |  |   |
|--|---|
| ① INSTALL STORAGE LANE LINE (RPM) (USDCCA DWG NO. 246)   | ⑩ REMOVE TRAFFIC STRIPING (CROSSWALK).  |
| ② INSTALL TYPE 4 LANE LINE (RPM) (USDCCA DWG NO. 244.1)  | ⑪ REMOVE TRAFFIC STRIPING (STOP BAR).   |
| ③ INSTALL 24-INCH WHITE STOP LINE (THERMOPLASTIC) (USDCCA DWG NO. 254)   | ⑫ REMOVE TRAFFIC STRIPING (PAVEMENT MARKING LEGEND).  |
| ④ INSTALL 24-INCH WHITE CROSSWALK (THERMOPLASTIC) (USDCCA DWG NO. 254)   | ⑬ REMOVE TRAFFIC STRIPING (STORAGE LINE (RPM)).   |
| ⑤ INSTALL LANE TRANSITION - WHITE (THERMOPLASTIC) PER USDCCA DWG NO. 245, SHEET 3 OF 3.                          | ⑭ REMOVE TRAFFIC STRIPING (TYPE 4 LANE LINE (RPM)).   |
| ⑥ INSTALL WHITE PAVEMENT ARROW (THERMOPLASTIC) PER DETAIL B, SHEET S-ST-3.                                       | ⑮ INSTALL K-71 MARKER - YELLOW PER DETAIL C, SHEET S-ST-3.                                  |
| ⑦ INSTALL 8-INCH SOLID WHITE LINE USING PAVEMENT STRIPING (TYPE 1 POLYUREA).                                     | ⑯ REMOVE TRAFFIC STRIPING (CAT TRACKS (RPM)).   |
| ⑧ INSTALL MEDIAN NOSE MARKINGS PER DETAIL A, SHEET S-ST-3.   | ⑰ INSTALL DROP LINE PATTERN (RPM) AND ARROW AND ONLY (THERMOPLASTIC) (USDCCA DWG NO. 246.6) |
| ⑨ INSTALL REFLECTIVE PAVEMENT MARKERS AT 5' ON CENTER ALONG BOTH SIDES OF THE MEDIAN PER DETAIL A, SHEET S-ST-3. | ⑱ INSTALL "ONLY" AND "BUSES" (THERMOPLASTIC) (USDCCA DWG NO. 234.                           |

**PERMANENT SIGNING NOTES**

- |  |
|--|
| ① INSTALL PERMANENT SIGN PANEL(S) ON STREET LIGHT POLE.              |
| ② REMOVE AND SALVAGE SIGN PANEL(S) FROM STREET LIGHT POLE.           |
| ③ REMOVE AND SALVAGE SIGN PANEL(S) AND POST.                         |
| ④ EXISTING SIGN TO REMAIN. DO NOT DISTURB.                           |
| ⑤ INSTALL PERMANENT SIGN PANEL(S) AND POST PER USDCCA DWG NO. 249.1. |

PLOT DATE: Friday, February 26, 2021 5:14:11 PM Elangjivil, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\DM548908\20143276.03\_ST-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**SIGNING & STRIPING PLAN**  
 "SA" 50+00.00 TO "SA" 55+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



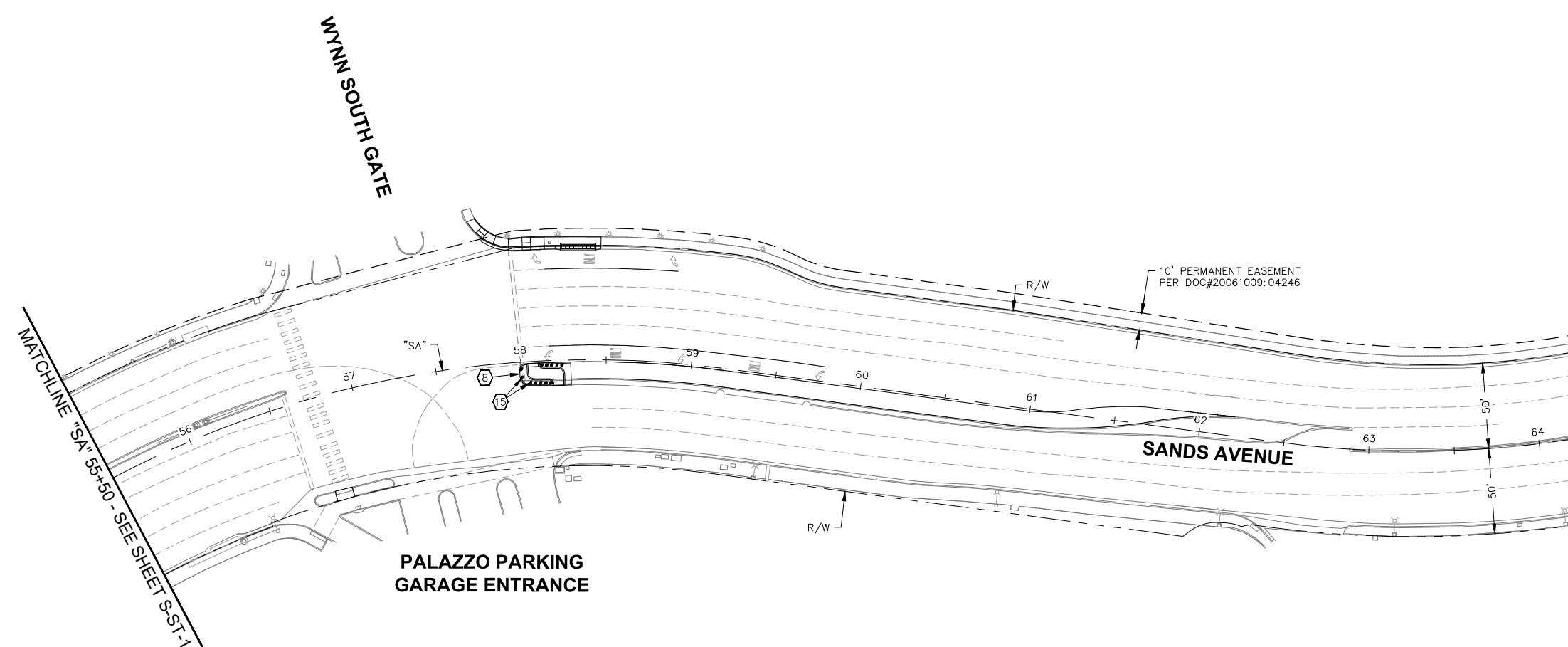
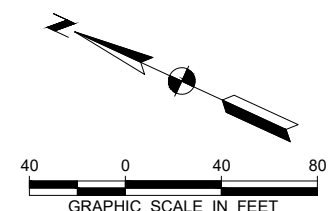
PROJECT No:	2043276.03	DRAWN BY:	FME
DESIGNED BY:	DP	CHECKED BY:	CAB
APPROVED BY:	KK	DATE:	02/26/2021

300 South 4th Street, Suite 1200  
 Las Vegas, Nevada 89101  
 Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-ST-1</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION





SEE GCW SIGNING AND STRIPING PLANS

SEE GCW SIGNING AND STRIPING PLANS

**SIGNING NOTES**

- SEE GENERAL NOTES ON SHEET S-2.
- EXISTING SIGNS NOT SHOWN SHALL REMAIN AND BE PROTECTED IN PLACE.
- SEE PLANS L-2272 BY GCW FOR LAS VEGAS BOULEVARD SIGNING.

**STRIPING NOTES**

- SEE GENERAL NOTES ON SHEET S-2.
- EXISTING MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED USING METHODS APPROVED BY THE ENGINEER.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC MARKINGS, SUCH MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER.
- SEE PLANS L-2272 BY GCW FOR LAS VEGAS BOULEVARD STRIPING.

**PAVEMENT MARKING NOTES**

- 1. INSTALL STORAGE LANE LINE (RPM) (USDGCA DWG NO. 246)
- 2. INSTALL TYPE 4 LANE LINE (RPM) (USDGCA DWG NO. 244.1)
- 3. INSTALL 24-INCH WHITE STOP LINE (THERMOPLASTIC) (USDCCA DWG NO. 264)
- 4. INSTALL 24-INCH WHITE CROSSWALK (THERMOPLASTIC) (USDCCA DWG NO. 254)
- 5. INSTALL LANE TRANSITION - WHITE (THERMOPLASTIC) PER USDGCA DWG NO. 245, SHEET 3 OF 3.
- 6. INSTALL WHITE PAVEMENT ARROW (THERMOPLASTIC) PER DETAIL B, SHEET S-ST-3.
- 7. INSTALL 8-INCH SOLID WHITE LINE USING PAVEMENT STRIPING (TYPE 1 POLYUREA).
- 8. INSTALL MEDIAN NOSE MARKINGS PER DETAIL A, SHEET S-ST-3.
- 9. INSTALL REFLECTIVE PAVEMENT MARKERS AT 5'-ON-CENTER ALONG BOTH SIDES OF THE MEDIAN PER DETAIL A, SHEET S-ST-3.

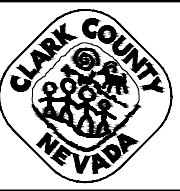
- 10. REMOVE TRAFFIC STRIPING (CROSSWALK).
- 11. REMOVE TRAFFIC STRIPING (STOP BAR).
- 12. REMOVE TRAFFIC STRIPING (PAVEMENT MARKING LEGEND).
- 13. REMOVE TRAFFIC STRIPING (STORAGE LINE (RPM)).
- 14. REMOVE TRAFFIC STRIPING (TYPE 4 LANE LINE (RPM)).
- 15. INSTALL K-71 MARKER - YELLOW PER DETAIL C, SHEET S-ST-3.
- 16. REMOVE TRAFFIC STRIPING (CAT TRACKS (RPM)).
- 17. INSTALL DROP LINE PATTERN (RPM) AND ARROW AND ONLY (THERMOPLASTIC) (USDCCA DWG NO. 246.6)
- 18. INSTALL "ONLY" AND "BUSES" (THERMOPLASTIC) (USDGCA DWG NO. 2)

**PERMANENT SIGNING NOTES**

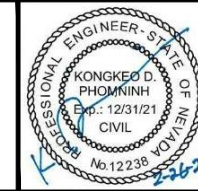
- 1. INSTALL PERMANENT SIGN PANEL(S) ON STREET LIGHT POLE.
- 2. REMOVE AND SALVAGE SIGN PANEL(S) FROM STREET LIGHT POLE.
- 3. REMOVE AND SALVAGE SIGN PANEL(S) AND POST.
- 4. EXISTING SIGN TO REMAIN. DO NOT DISTURB.
- 5. INSTALL PERMANENT SIGN PANEL(S) AND POST PER USDGCA DWG NO. 249.1.

PLOT DATE: Friday, February 26, 2021 5:14:21 PM Elangyil, Frisco  
FILE NAME: C:\BMS\2\LB\USER\BMS48908\2043276.03\_ST-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**SIGNING & STRIPING PLAN**  
 "SA" 53+50.00 TO "SA" 64+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



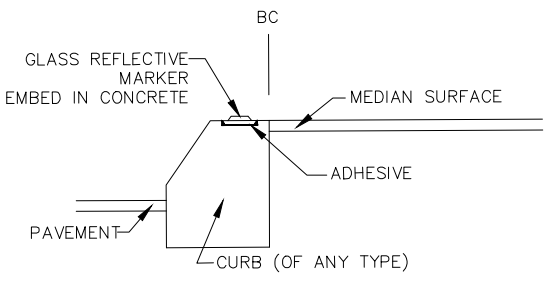
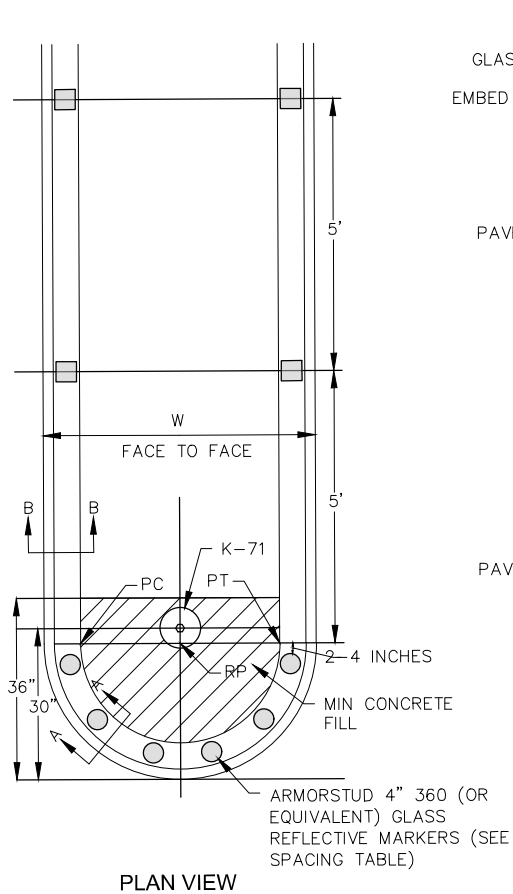
PROJECT No:	2043276.03	DRAWN BY:	FME
DESIGNED BY:	DP	CHECKED BY:	CAB
APPROVED BY:	KK	DATE:	02/26/2021



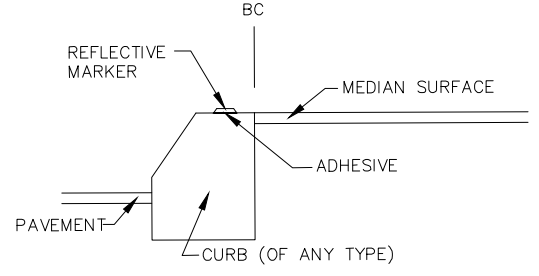
300 South 4th Street, Suite 1200  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-ST-2</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION



SECTION A - A



SECTION B - B

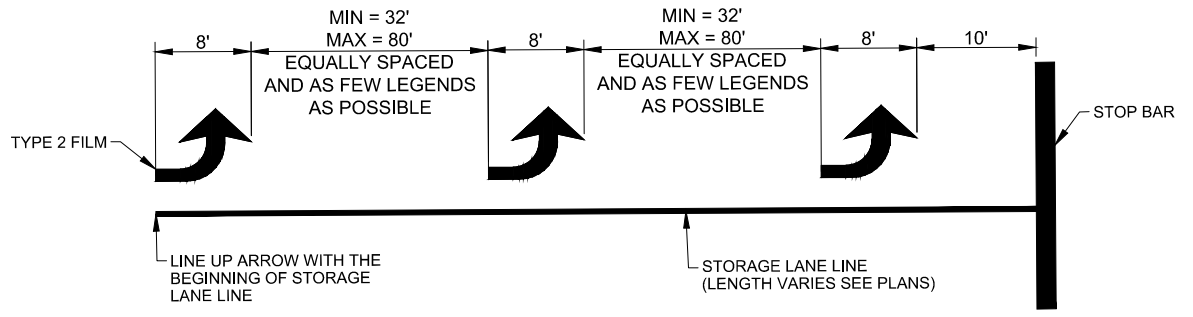
SPACING TABLE	
"W"	NUMBER OF REFLECTORS PER MEDIAN NOSE
1' TO 2'	3
2' TO 3'	4
3' TO 4'	5
4.0' & GREATER	1 EACH FOR EVERY 1.0' OF CURB LENGTH

NOTE:  
ONE MARKER EACH SHALL BE PLACED 2-4 INCHES FROM THE PC AND THE PT OF THE MEDIAN NOSE; ALL OTHERS SPACED EQUALLY BETWEEN PT & PC

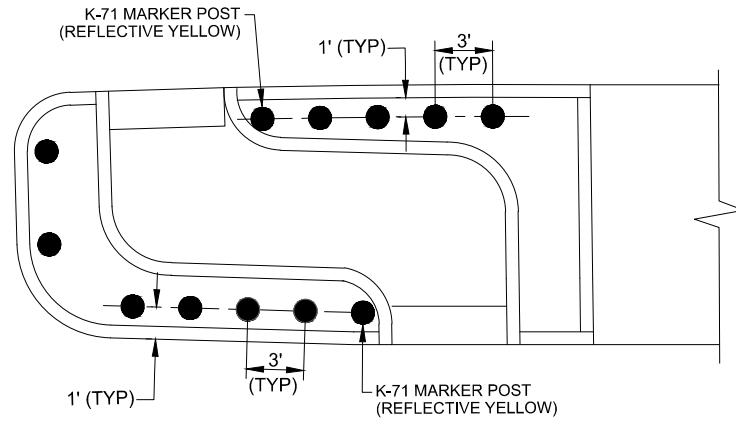
NOTES:

1. ENTIRE MEDIAN SHALL BE PAINTED WITH REFLECTIVE PAINT, OF SAME COLOR AS REFLECTIVE MARKERS, FROM THE MEDIAN NOSE BACK 5 FEET OR TO THE PC, WHICHEVER IS GREATER
2. REFLECTIVE PAVEMENT MARKERS USED ON MEDIAN SHALL CONFORM TO STD DWG No 247
3. ORIENTATION OF THE REFLECTIVE MARKERS FACES SHALL BE MADE IN THE FIELD TO ENSURE THAT MARKERS ARE AIMED AT APPROACHING VEHICLES TO BEST ADVANTAGE, ESPECIALLY IN HORIZONTALLY CURVED ROAD SECTIONS
4. REFLECTIVE PAVEMENT MARKERS ALONG MEDIAN LENGTH SHALL ONLY BE USED ON MEDIAN ISLANDS LESS THAN OR EQUAL TO FOUR (4) FEET IN WIDTH.

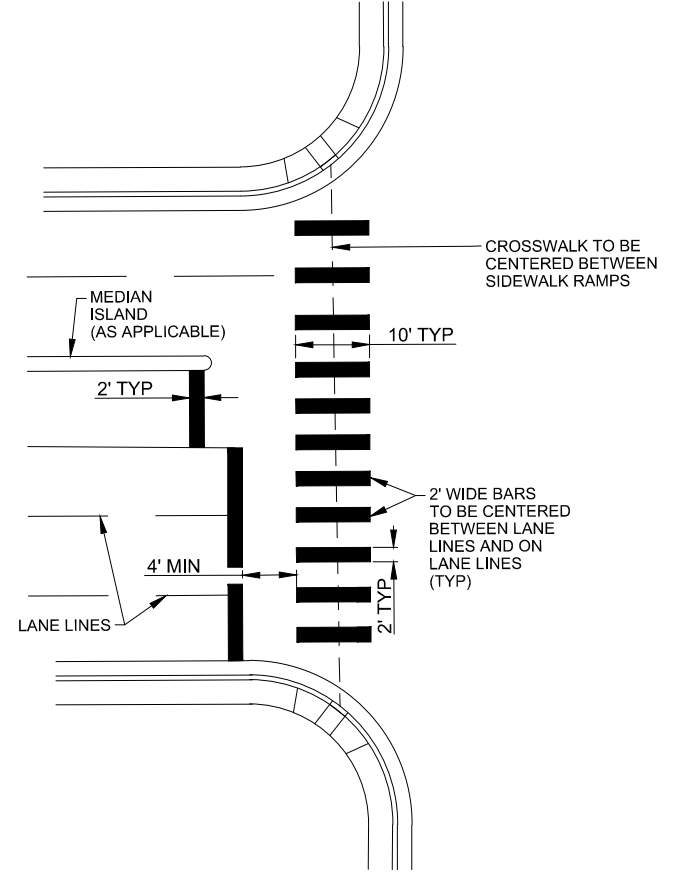
DETAIL A  
MEDIAN ISLAND MARKINGS



DETAIL B  
TYPICAL ARROW  
LEGEND INSTALLATION  
NOT TO SCALE



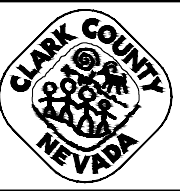
DETAIL C  
K-71 MARKER DETAIL



TYPICAL CROSSWALK  
STRIPING DETAIL

PLOT DATE: Friday, February 26, 2021 5:14:26 PM Elangjivi, Frisco  
FILE NAME: C:\BMS\2\LB\USER\BMS48908\2043276.03\_ST-1.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

STRIPING DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



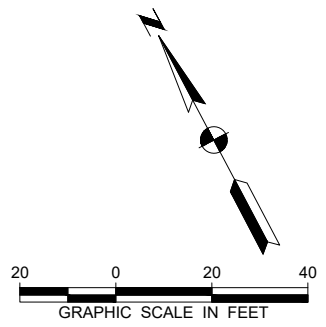
PROJECT No: 2043276.03    DRAWN BY: FME  
DESIGNED BY: DP    CHECKED BY: CAB  
APPROVED BY: KK    DATE: 02/26/2021

**wsp**

300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-ST-3</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION



**FIBER OPTIC CABLE NOTES:**

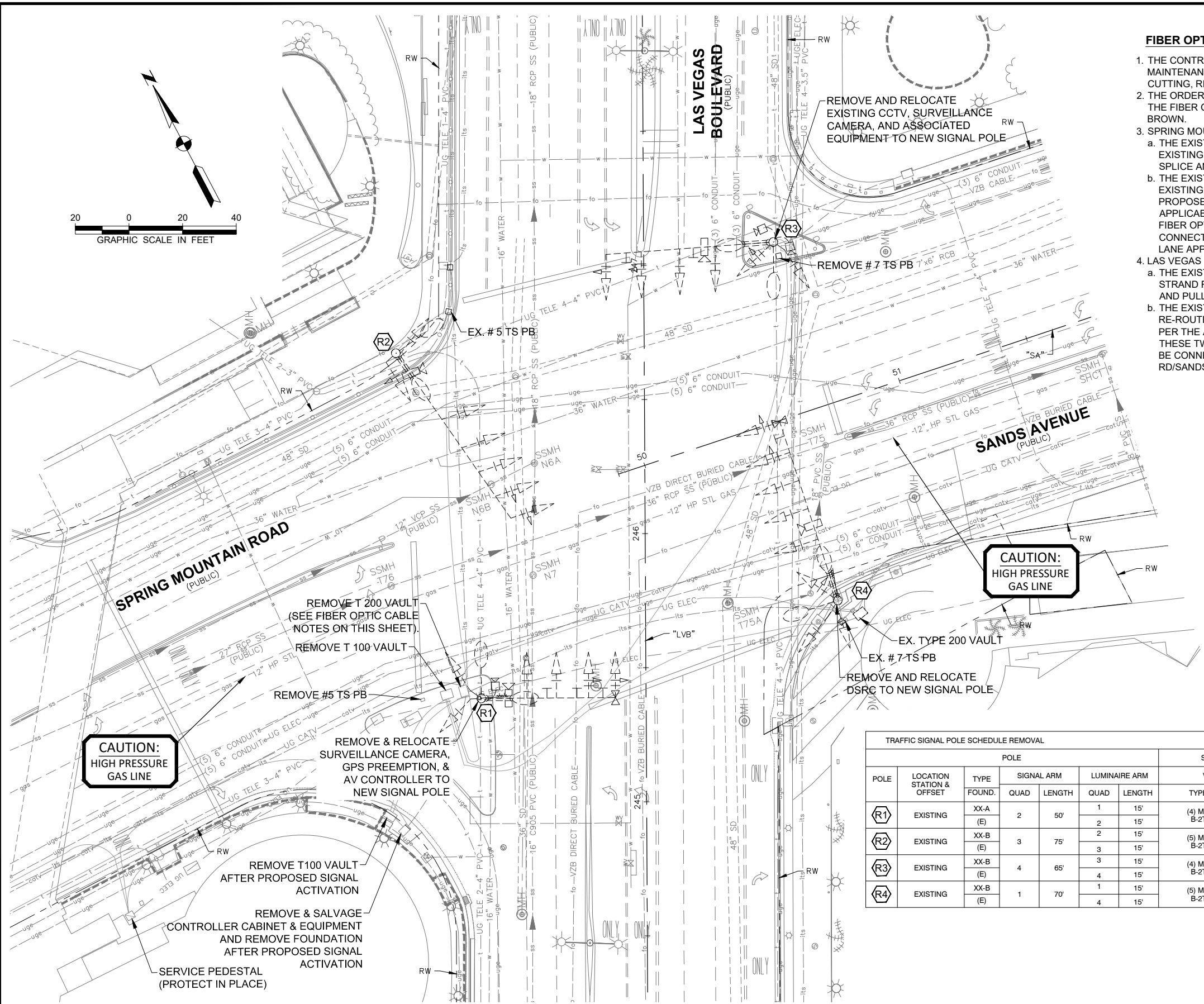
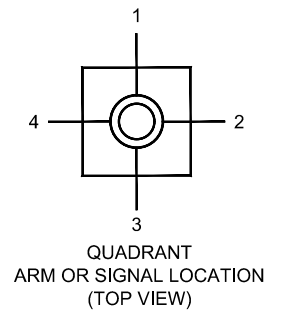
1. THE CONTRACTOR SHALL CONTACT MR. LONNIE BROWN (RTC/FAST MANAGER TRAFFIC SYSTEM MAINTENANCE) TWO (2) WEEKS IN ADVANCE OF ANY FIBER OPTIC CABLE WORK FOR FIBER OPTIC CABLE CUTTING, RELOCATION, AND SPLICING COORDINATION.
2. THE ORDER OF THE FOLLOWING NOTES DO NOT REPRESENT A SEQUENCE OF WORK. THE SEQUENCING OF THE FIBER OPTIC CABLE CUTTING, RELOCATION, AND SPLICING SHALL BE AS DIRECTED BY MR. LONNIE BROWN.
3. SPRING MOUNTAIN RD AND SANDS AVE FIBER OPTIC CABLE WORK:
  - a. THE EXISTING 72 STRAND FIBER OPTIC CABLE FROM THE WEST ON SPRING MOUNTAIN RD AND THE EXISTING 72 STRAND FIBER OPTIC CABLE FROM THE EAST ON SANDS AVE SHALL BE CUT AT THE BUTT SPLICE AND PULLED BACK FROM THE WORK AREA.
  - b. THE EXISTING 72 STRAND FIBER OPTIC CABLE FROM THE WEST ON SPRING MOUNTAIN RD AND THE EXISTING 72 STRAND FIBER OPTIC CABLE FROM THE EAST ON SANDS AVE SHALL BE RE-ROUTED TO THE PROPOSED TYPE 200 VAULT. THESE TWO CABLES SHALL BE BUTT SPLICED TOGETHER PER THE APPLICABLE SPLICE DIAGRAM ON SHEET S-T-9. A PROPOSED CDCA SHALL ALSO BE SPLICED TO THESE TWO FIBER OPTIC CABLES PER THE APPLICABLE SPLICE DIAGRAM ON SHEET S-T-9. THE CDCA SHALL BE CONNECTED TO THE CONTROLLER CABINET AT THE EXISTING SIGNAL AT SPRING MOUNTAIN AND FASHION LANE APPROXIMATELY 400' WEST OF LAS VEGAS BLVD.
4. LAS VEGAS BLVD FIBER OPTIC CABLE WORK:
  - a. THE EXISTING 96 STRAND FIBER OPTIC CABLE FROM THE NORTH ON LAS VEGAS BLVD AND THE EXISTING 96 STRAND FIBER OPTIC CABLE FROM THE SOUTH ON LAS VEGAS BLVD SHALL BE CUT AT THE BUTT SPLICE AND PULLED BACK FROM THE WORK AREA.
  - b. THE EXISTING 96 STRAND FIBER OPTIC CABLE FROM THE NORTH AND SOUTH ON LAS VEGAS BLVD SHALL BE RE-ROUTED TO THE PROPOSED TYPE 200 VAULT. THESE TWO CABLES SHALL BE BUTT SPLICED TOGETHER PER THE APPLICABLE SPLICE DIAGRAM ON SHEET S-T-9. A PROPOSED CDCA SHALL ALSO BE SPLICED TO THESE TWO FIBER OPTIC CABLES PER THE APPLICABLE SPLICE DIAGRAM ON SHEET S-T-9. THE CDCA SHALL BE CONNECTED TO THE PROPOSED CONTROLLER CABINET AT LAS VEGAS BLVD AND SPRING MOUNTAIN RD/SANDS AVE.

**CAUTION: HIGH PRESSURE GAS!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVED FOR CONSTRUCTION  
*Signature On File*  
 Las Vegas Valley Water District Planning and Engineering Services  
 Project No. 122505 First Approved Date: 01/12/21

APPROVAL:  
 Matthew Pedraza 20MJ4279 12/08/2020  
 Southwest Gas Corporation SWG UID Date

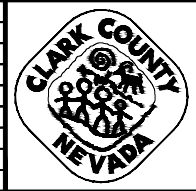
APPROVAL:  
 DIGITALLY SIGNED BY E. BUO  
 Clark County Water Reclamation District  
 01/28/21  
 Date  
 CCWRD PIPES Number Is 20.1137  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



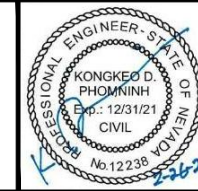
TRAFFIC SIGNAL POLE SCHEDULE REMOVAL													
POLE	LOCATION STATION & OFFSET	POLE				SIGNALS			VIDEO DETECTION	FAST CCTV CAMERA	PEDESTRIAN PUSH BUTTON		REMARKS
		TYPE	SIGNAL ARM		LUMINAIRE ARM		VEHICLE				ARROW	QUAD	
			FOUND.	QUAD	LENGTH	QUAD	LENGTH	TYPE					
R1	EXISTING	XX-A	2	50'	1	15'	(4) M-2 B-2T	MA 4	YES	-	1	REMOVE & SALVAGE POLE AND APPURTENANCES. REMOVE FOUNDATION TO 24" BELOW GRADE.	
R2	EXISTING	XX-B	3	75'	2	15'	(5) M-2 B-2T	MA 1	YES	-	3	REMOVE & SALVAGE POLE AND APPURTENANCES. PROTECT IN PLACE EXISTING FOUNDATION.	
R3	EXISTING	XX-B	4	65'	3	15'	(4) M-2 B-2T	MA 2	YES	YES	4	REMOVE & SALVAGE POLE AND APPURTENANCES. REMOVE FOUNDATION TO 24" BELOW GRADE.	
R4	EXISTING	XX-B	1	70'	1	15'	(5) M-2 B-2T	MA 3	YES	-	-	REMOVE & SALVAGE POLE AND APPURTENANCES. REMOVE FOUNDATION TO 24" BELOW GRADE.	

PLOT DATE: Friday, February 26, 2021 5:15:04 PM Elangjivl, Frisco  
 FILE NAME: C:\BMS\2\BLS\USER\BMS4896\20143276.03\_T-1-T-4 - REMOVAL.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**TRAFFIC SIGNAL REMOVAL PLAN**  
**LAS VEGAS BOULEVARD AND SANDS AVENUE**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



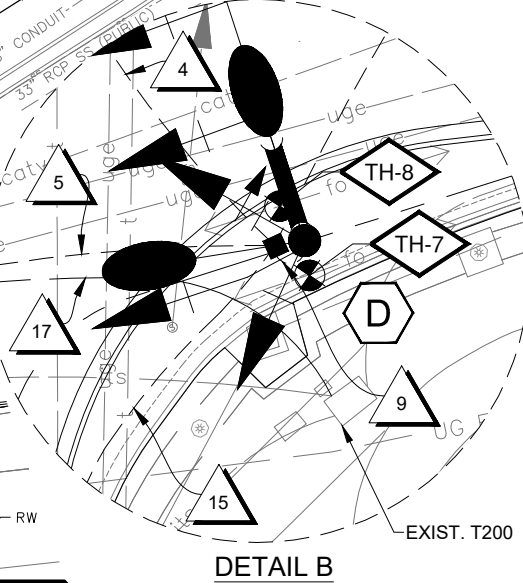
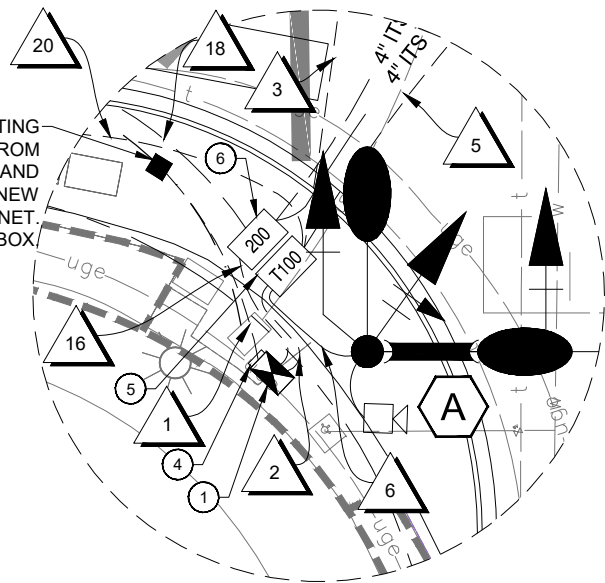
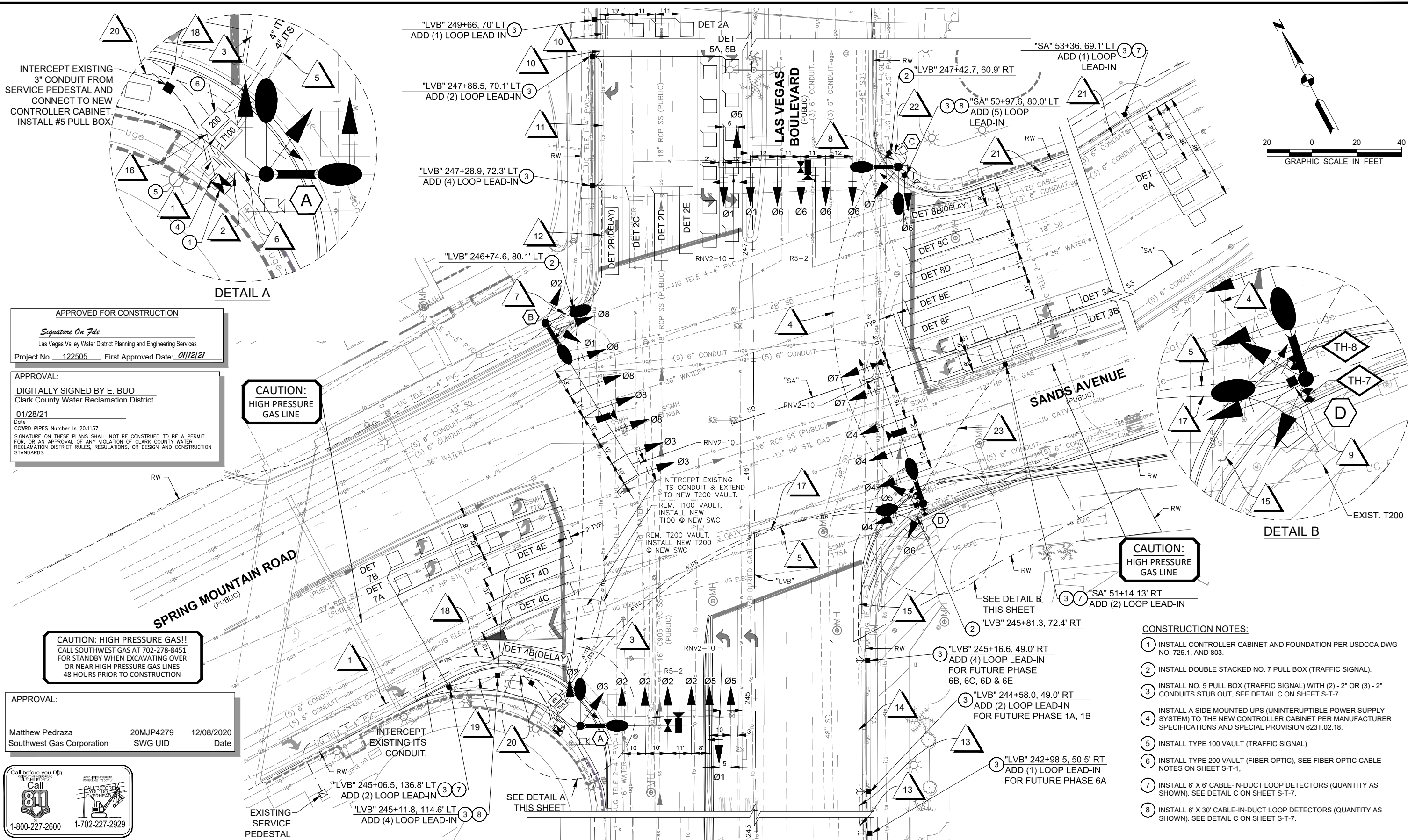
PROJECT No: 2043276.03 DRAWN BY: FME  
 DESIGNED BY: KDP CHECKED BY: NLG  
 APPROVED BY: KK DATE: 02/26/2021



SCALE	SHEET No
HORIZ: NONE	<b>S-T-1</b>
VERT: NONE	
FIELD BOOK: NONE	
L - 2174	

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION





APPROVED FOR CONSTRUCTION

*Signature On File*  
Las Vegas Valley Water District Planning and Engineering Services  
Project No. 122505 First Approved Date: 01/12/21

APPROVAL:  
DIGITALLY SIGNED BY E. BUO  
Clark County Water Reclamation District  
01/28/21  
Date  
CCWRD PIPES Number Is 20.1137  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**CAUTION: HIGH PRESSURE GAS!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVAL:  
Matthew Pedraza 20MJP4279 12/08/2020  
Southwest Gas Corporation SWG UID Date



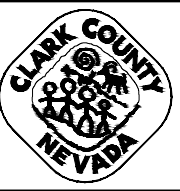
- CONSTRUCTION NOTES:**
- 1 INSTALL CONTROLLER CABINET AND FOUNDATION PER USCCA DWG NO. 725.1, AND 803.
  - 2 INSTALL DOUBLE STACKED NO. 7 PULL BOX (TRAFFIC SIGNAL).
  - 3 INSTALL NO. 5 PULL BOX (TRAFFIC SIGNAL) WITH (2) - 2" OR (3) - 2" CONDUITS STUB OUT, SEE DETAIL C ON SHEET S-T-7.
  - 4 INSTALL A SIDE MOUNTED UPS (UNINTERRUPTIBLE POWER SUPPLY SYSTEM) TO THE NEW CONTROLLER CABINET PER MANUFACTURER SPECIFICATIONS AND SPECIAL PROVISION 623T.02.18.
  - 5 INSTALL TYPE 100 VAULT (TRAFFIC SIGNAL)
  - 6 INSTALL TYPE 200 VAULT (FIBER OPTIC), SEE FIBER OPTIC CABLE NOTES ON SHEET S-T-1.
  - 7 INSTALL 6" X 6" CABLE-IN-DUCT LOOP DETECTORS (QUANTITY AS SHOWN), SEE DETAIL C ON SHEET S-T-7.
  - 8 INSTALL 6" X 30" CABLE-IN-DUCT LOOP DETECTORS (QUANTITY AS SHOWN), SEE DETAIL C ON SHEET S-T-7.

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

TRAFFIC SIGNAL PLAN

LAS VEGAS BOULEVARD AND SANDS AVENUE

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 2043276.03  
DESIGNED BY: KDP  
APPROVED BY: KK

DRAWN BY: FME  
CHECKED BY: NLG  
DATE: 02/26/2021

SCALE: NONE  
HORIZ: NONE  
VERT: NONE  
FIELD BOOK: NONE

SHEET No: S-T-2  
L-2174

PLOT DATE: Friday, February 26, 2021 5:16:17 PM Elangyih, Frisco  
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REV. NO.	DATE	DESCRIPTION	APPROVED

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE

ISSUED FOR CONSTRUCTION

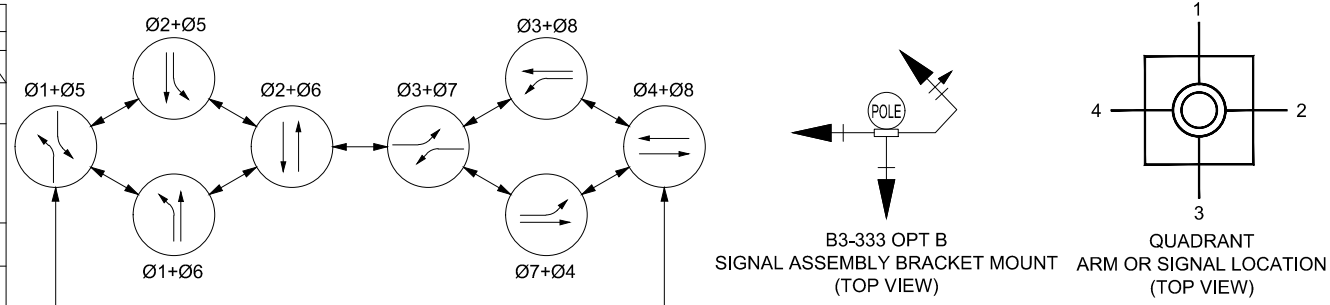
**TRAFFIC SIGNAL POLE SCHEDULE**

No.	STATION	POLE TYPE	SIGNAL ARM QUAD LENGTH		LUMINAIRE ARM QUAD LENGTH		VEHICLE SIGNALS		PEDESTRIAN SIGNALS		PEDESTRIAN BUTTON		FAST CCTV CAMERA	EMERGENCY VEHICLE DETECTOR	TRAFFIC SIGNS	RED LIGHT INDICATIONS			COMMENTS	
			QUAD	LENGTH	QUAD	LENGTH	MOUNTING	QUAD	MOUNTING	QUAD	ARROW	QUAD				QUAD	TYPE	PHASE		
A	"LVB" 244+88.11 78.00' LT	XX-B-30 TYPE "M"	2	70'	1	15'	(7) M-2 (1) B-2T	MA 4	-	-	-	-	-	-	ONE-WAY	RNV2-10 (36"X30")-MA R5-2 (24"X24")-MA	3	BLUE RED	Ø3 Ø2	INSTALL LED EQUIVALENT TO 400 HPS LUMINARIES. SEE STREET NAME SIGN SCHEDULE. INSTALL ANTI-CLIMB DEVICE ON POLE. SEE DETAIL A ON SHEET S-T-7. RE-INSTALL SURVEILLANCE CAMERA AND AV CONTROLLER. SEE NOTES BELOW. RELOCATE GPS PREEMPTION FROM THE OLD POLE. INSTALL NEW SIMI-CUSTOM POLE ON EXISTING FOUNDATION. LED EQUIVALENT TO 400 HPS LUMINARIES. SEE STREET NAME SIGN SCHEDULE. INSTALL ANTI-CLIMB DEVICE ON POLE. SEE DETAIL A ON SHEET S-T-7. SEE NOTES BELOW.
B	EXISTING	XX-B-30 EXISTING	3	80'	2	15'	(6) M-2 (1) B3-333 OPT B	MA 1	-	-	-	-	-	-	-	RNV2-10 (36"X30")-MA	4	BLUE RED	Ø1 Ø8	
C	"LVB" 247+36.52 65.00' RT	XX-B-30 TYPE "M"	4	80'	3	15'	(7) M-2 (1) B-2T	MA 2	-	-	-	-	YES	ONE-WAY	RNV2-10 (36"X30")-MA R5-2 (24"X24")-MA	1	BLUE RED	Ø7 Ø6	INSTALL LED EQUIVALENT TO 400 HPS LUMINARIES. SEE STREET NAME SIGN SCHEDULE. INSTALL ANTI-CLIMB DEVICE ON POLE. SEE DETAIL A ON SHEET S-T-7. RE-INSTALL SURVEILLANCE CAMERA. SEE NOTES BELOW.	
D	"LVB" 245+86.38 75.29' RT	XX-B-30 TYPE "M"	1	65'	1	15'	(5) M-2 (1) B3-333 OPT B	MA 3	-	-	-	-	-	TWO-WAY	RNV2-10 (36"X30")-MA	2	BLUE RED	Ø5 Ø4	INSTALL LED EQUIVALENT TO 400 HPS LUMINARIES. SEE STREET NAME SIGN SCHEDULE. INSTALL ANTI-CLIMB DEVICE ON POLE. SEE DETAIL A ON SHEET S-T-7. SEE NOTES BELOW. RELOCATE DSRC FROM OLD POLE TO THE NEW POLE.	

**SIGNAL CONDUIT AND CABLE SCHEDULE**

WIRE AND CABLE	FROM	TO	CABLE																						
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
(3) #2*	SERVICE PEDESTAL	CONTROLLER																							
(1) 25 COND. #14**, (1) GTT M138 OPTICOM CABLE, (1) 8281 COAX & (3)#10* - *** (1) GTT M1070 GPS OPTICOM CABLE	CONTROLLER	POLE A																							
(3) #10*	SERVICE PEDESTAL	POLE A LUMINAIRES																							
(1) 25 COND. #14**, (1) 8281 COAX & (3)#10* - ***	CONTROLLER	POLE B																							
(3) #10*	SERVICE PEDESTAL	POLE B LUMINAIRES																							
(1) 25 COND. #14**, (1) GTT M138 OPTICOM CABLE, (1) 8281 COAX & (3)#10*	CONTROLLER	POLE C																							
(3) #10*	SERVICE PEDESTAL	POLE C LUMINAIRES																							
(1) 25 COND. #14**, (1) GTT M138 OPTICOM CABLE, (1) 8281 COAX & (3)#10* - *** (1) DSRC CABLE	CONTROLLER	POLE D																							
(3) #10*	SERVICE PEDESTAL	POLE D LUMINAIRES																							
(2) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 1A,1B																							
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12 AWG	CONTROLLER	DET 2A																							
(4) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 2B,2C,2D,2E																							
(2) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 3A, 3B																							
(4) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 4B,4C,4D,4E																							
(2) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 5A, 5B																							
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12 AWG	CONTROLLER	DET 6A																							
(4) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 6B,6C,6D,6E																							
(2) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 7A, 7B																							
(1) LOOP LEAD-IN CABLE IMSA 50-2 #12 AWG	CONTROLLER	DET 8A																							
(5) LOOP LEAD-IN CABLES IMSA 50-2 #12 AWG	CONTROLLER	DET 8B,8C,8D,8E,8F																							
FIBER OPTIC - CDCA ****	CONTROLLER	TYPE 200 VAULT																							
COHU MODEL CA295H CABLE	CONTROLLER	CCTV CAMERA POLE C																							
FIBER OPTIC - 72 STRAND FIBER OPTIC - CDCA ****	TYPE 200 VAULT	FASHION SHOW / SPRING MTN CONTROLLER																							
FIBER OPTIC- 96 & 72 STRND****	TYPE 200 VAULT	TYPE 200 VAULT																							
CONDUIT QUANTITY AND SIZE EX= EXISTING EEC=EXTEND EXISTING CONDUIT			1-3"	4-3"	3-3"	3-3"	3-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-4"	2-4"	2-4"	1-3"	1-3"	1-3"	1-3"	1-3"

\*THW-2 OR XHHW-2 \*\*IMSA 20-1 \*\*\* (1) 8281 COAX & (3)#10\* - ARE FOR FUTURE CAMERA USE. \*\*\*\* SEE FIBER OPTIC CABLE NOTES ON SHEET S-T-1 AND SHEET S-T-9



**PHASE DIAGRAM**  
FLASHING OPERATION - ALL RED  
OPTICOM PHASES 2, 4, 6 AND 8  
PHASES 1, 3, 5, AND 7 SHALL OPERATE AS PROTECTED ONLY

**TRAFFIC SIGNAL LEGEND:**

		OPTICOM DETECTOR
		TRAFFIC SIGNAL HEAD
		LEFT TURN TRAFFIC SIGNAL HEAD
		400 W EQUIVALENT LED LUMINAIRE
		MAST ARM MOUNTED SIGN
		PEDESTRIAN SIGNAL HEAD
		INTERNALLY ILLUMINATED STREET NAME SIGN
		POLE
		CONTROLLER CABINET
		SERVICE PEDESTAL
		PULL BOX
		CONDUIT
		VIDEO DETECTION CAMERA
		CCTV CAMERA

**Pothole Table**

PH ID.	Utility			Depth to Top (ft)	Top of Util. Elevation (ft)
	Type	Size (inches)	Width (inches)		
TH-7	Fiber	(1) 4" & (1) 2"	-	2.16	2076.40
TH-8	Fiber	(2) 2"	-	1.040	2077.73

**STREET NAME SIGN SCHEDULE**

POLE	SIGN LEGEND
A	W Spring Mountain RD 00
B	S Las Vegas BLVD 3249
C	E Sands AVE 100
D	S Las Vegas BLVD 3200

- LETTERS FOR STREET NAME "Las Vegas" SHALL BE 12" SERIES D.  
LETTERS FOR STREET NAME "Spring Mountain" SHALL BE 10" SERIES B.  
LETTERS FOR STREET NAME "Sands" SHALL BE 12" SERIES D.
- NOTES:**
- ALL SIGNAL POLES ARE SEMI-CUSTOM WITH BALL FINIAL FINISHED - ALSO SEE SPECIAL PROVISIONS.
  - ALL POLES AND APPURTENANCES SHALL BE PAINTED FIR GREEN (RAL 6009) "SPARKLE METALLIC" CLEAR COAT.
  - ALL MAST-ARM 60 FT OR LONGER SHALL HAVE VIBRATION MITIGATION.
  - POLE A: RELOCATE GLOBAL TRAFFIC TECHNOLOGIES (GTT) MODEL 3100 GPS PREEMPTION SYSTEM FROM OLD POLE TO NEW ONE. THIS IS IN ADDITION TO THE OPTICAL DETECTION SYSTEM.
  - ALL TRAFFIC SIGNAL BACKPLATE SHALL HAVE A 2-INCH RETROREFLECTIVE ADHESIVE SHEETING BORDER PER SPECIAL PROVISION SUBSECTION 623 T.02.08 VEHICLE SIGNAL FACES AND USDCCA DWG NO. 840.
  - VIDEO DETECTION CAMERA SHALL BE INSTALLED ON POLE A, B AND D FOR FUTURE USE. (1) BELDEN 8281 COAXIAL CABLE, (3) #10 AWG THW-2 OR XHHW-2 (BLUE, WHITE, AND GREEN) SHALL BE INSTALLED FROM CABINET TO BASE OF SIGNAL POLES WITH TWELVE FOOT OF SLACK LEFT IN CABINET AND ENOUGH SLACK IN POLE BASE TO EXTEND TO MIN. OF 18" BEYOND RIM OF HANDHOLE.

RNV2-10 36"X30"      R5-2 24"X24"

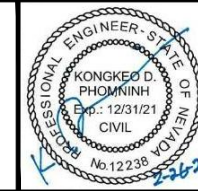
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REV. NO.	DATE	DESCRIPTION	APPROVED



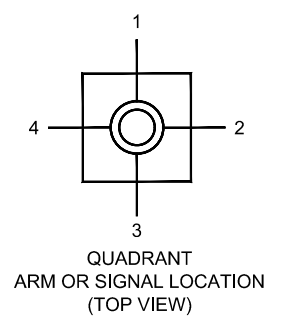
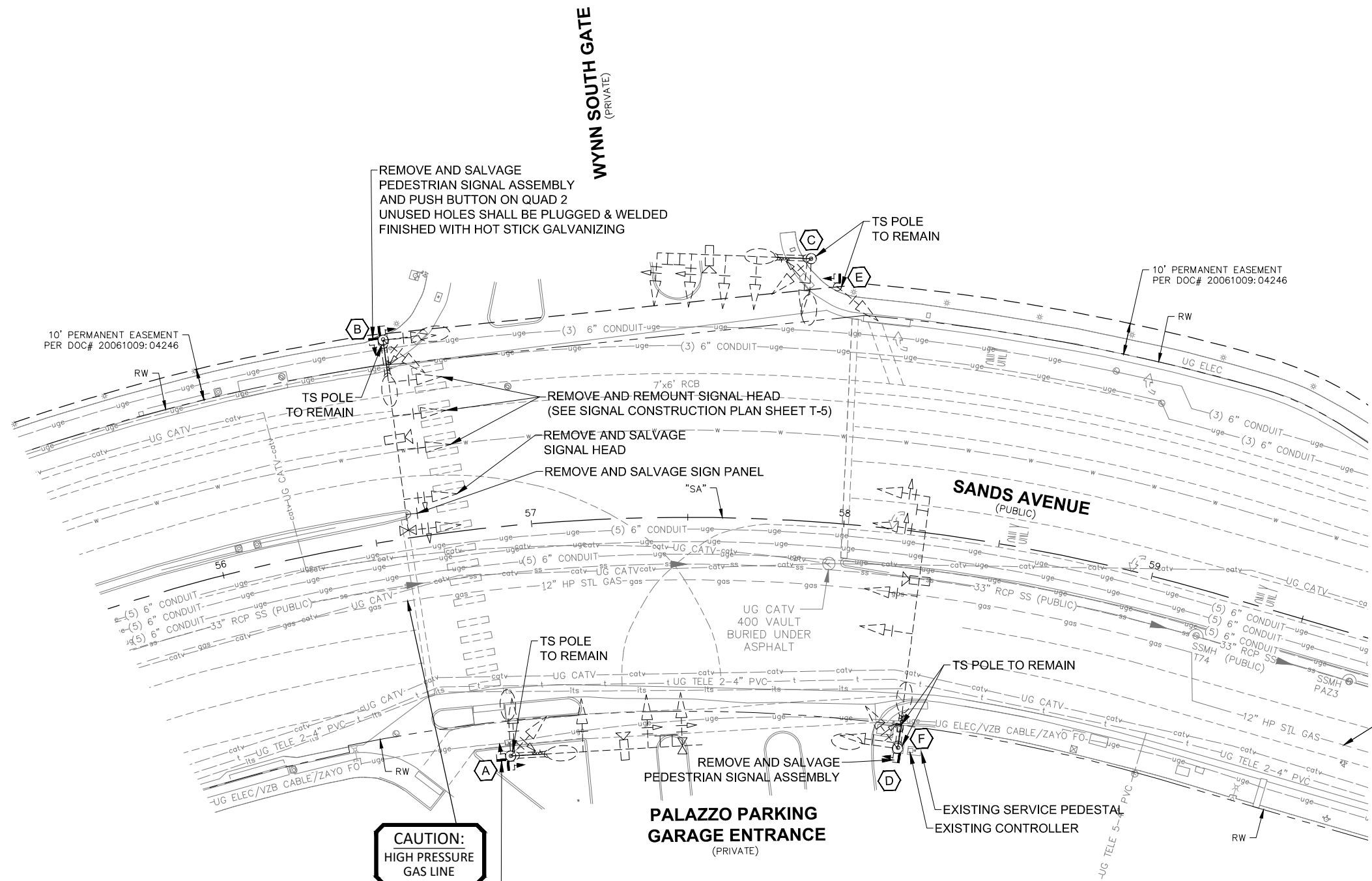
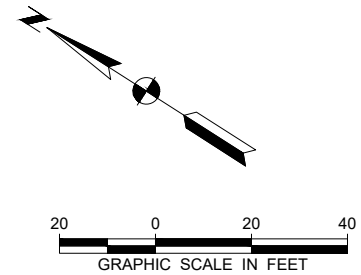
**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**TRAFFIC SIGNAL SCHEDULE**  
**LAS VEGAS BOULEVARD AND SANDS AVENUE**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 2043276.03	DRAWN BY: FME	SCALE:	SHEET No:
DESIGNED BY: KDP	CHECKED BY: NLG	HORIZ: NONE	<b>S-T-3</b>
APPROVED BY: KK	DATE: 02/26/2021	VERT: NONE	
		FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION





**APPROVED FOR CONSTRUCTION**

*Signature On File*  
Las Vegas Valley Water District Planning and Engineering Services  
Project No. 122505 First Approved Date: 01/12/21

**APPROVAL:**

DIGITALLY SIGNED BY E. BUO  
Clark County Water Reclamation District  
01/28/21  
Date  
CCWRD PIPES Number is 20.1137  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

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CALL SOUTHWEST GAS AT 702-278-8451  
FOR STANDBY WHEN EXCAVATING OVER  
OR NEAR HIGH PRESSURE GAS LINES  
48 HOURS PRIOR TO CONSTRUCTION**

**APPROVAL:**

Matthew Pedraza 20MJP4279 12/08/2020  
Southwest Gas Corporation SWG UID Date



PLOT DATE: Friday, February 26, 2021 5:16:58 PM Elangiyil, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\DRMS\4890620143276.03\_T-1-T-4 - REMOVAL.DWG

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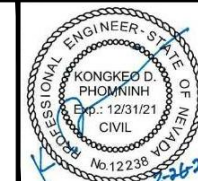


**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

**TRAFFIC SIGNAL REMOVAL PLAN**

**WYNN SOUTH GATE / PALAZZO AND SANDS AVENUE**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 2043276.03 DRAWN BY: FME  
DESIGNED BY: KDP CHECKED BY: NLG  
APPROVED BY: KK DATE: 02/26/2021

**WSP**  
300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

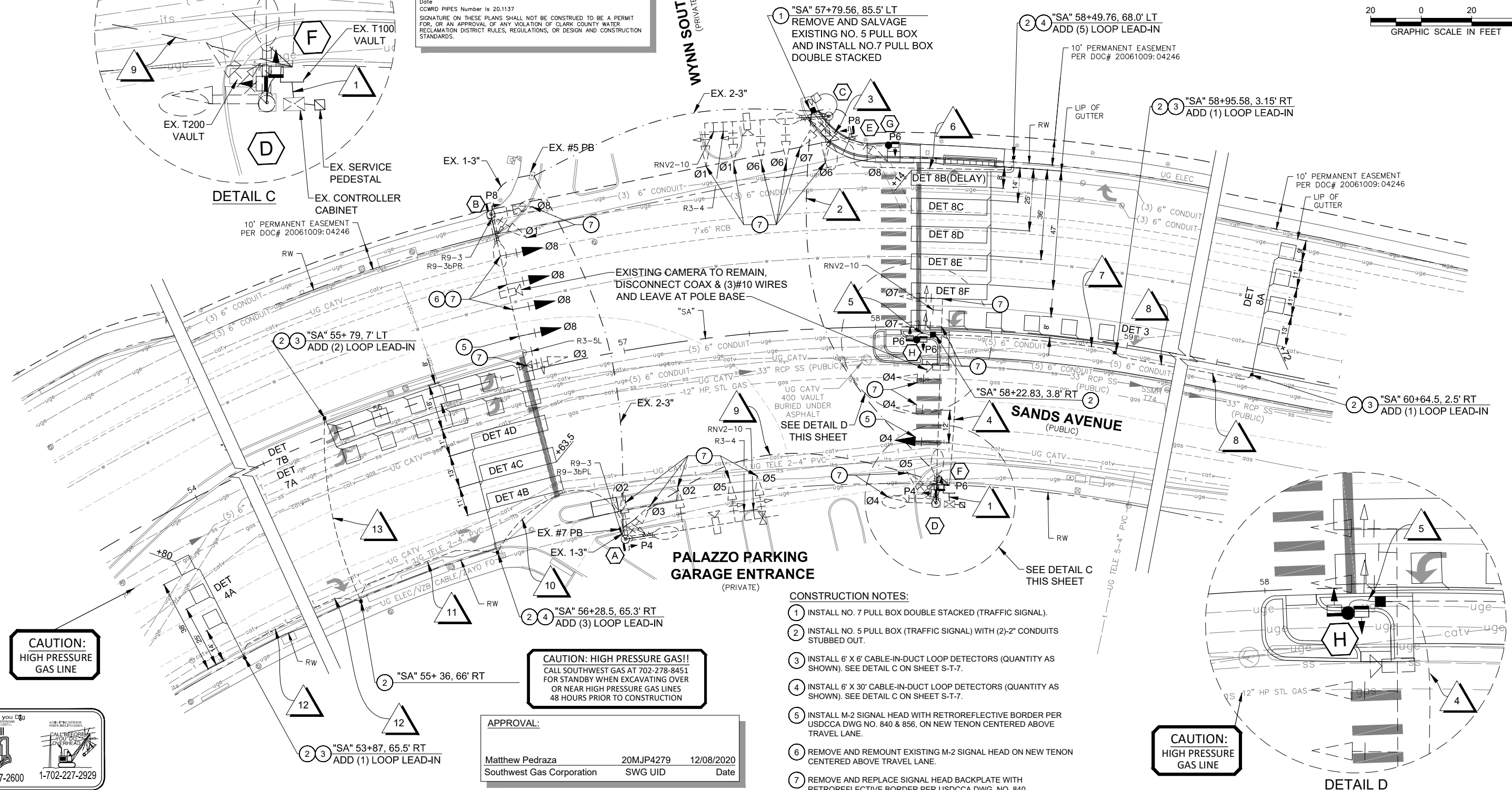
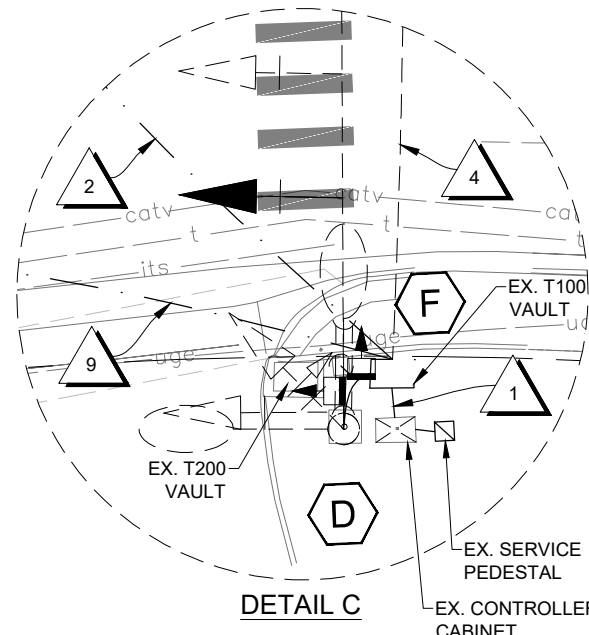
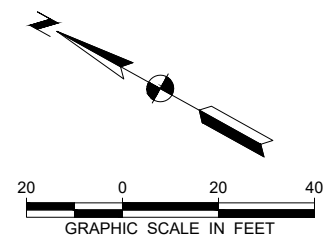
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HORIZ: NONE	<b>S-T-4</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION



APPROVED FOR CONSTRUCTION  
*Signature On File*  
 Las Vegas Valley Water District Planning and Engineering Services  
 Project No. 122505 First Approved Date: 01/12/21

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 DIGITALLY SIGNED BY E. BUO  
 Clark County Water Reclamation District  
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 Date  
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- CONSTRUCTION NOTES:**
- 1 INSTALL NO. 7 PULL BOX DOUBLE STACKED (TRAFFIC SIGNAL).
  - 2 INSTALL NO. 5 PULL BOX (TRAFFIC SIGNAL) WITH (2)-2" CONDUITS STUBBED OUT.
  - 3 INSTALL 6" X 6" CABLE-IN-DUCT LOOP DETECTORS (QUANTITY AS SHOWN). SEE DETAIL C ON SHEET S-T-7.
  - 4 INSTALL 6" X 30" CABLE-IN-DUCT LOOP DETECTORS (QUANTITY AS SHOWN). SEE DETAIL C ON SHEET S-T-7.
  - 5 INSTALL M-2 SIGNAL HEAD WITH RETROREFLECTIVE BORDER PER USDCCA DWG NO. 840 & 856, ON NEW TENON CENTERED ABOVE TRAVEL LANE.
  - 6 REMOVE AND REMOUNT EXISTING M-2 SIGNAL HEAD ON NEW TENON CENTERED ABOVE TRAVEL LANE.
  - 7 REMOVE AND REPLACE SIGNAL HEAD BACKPLATE WITH RETROREFLECTIVE BORDER PER USDCCA DWG. NO. 840.

**CAUTION: HIGH PRESSURE GAS!!**  
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

**CAUTION: HIGH PRESSURE GAS LINE**

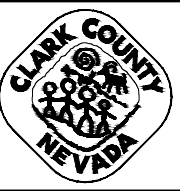
**CAUTION: HIGH PRESSURE GAS LINE**

APPROVAL:  
 Matthew Pedraza 20MJ4279 12/08/2020 Date  
 Southwest Gas Corporation SWG UID

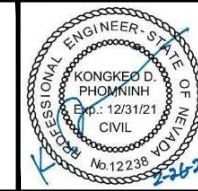
Call before you dig  
 Call 811  
 1-800-227-2600  
 1-702-227-2929

PLOT DATE: Friday, February 26, 2021 5:16:10 PM Elangyil, Frisco  
 FILE NAME: C:\BMS\2\LBUS\USER\DM54890620\43276.03\_T-5-T-6.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
 TRAFFIC SIGNAL PLAN  
 WYNN SOUTH GATE AND SANDS AVENUE  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No:	2043276.03	DRAWN BY:	FME
DESIGNED BY:	KDP	CHECKED BY:	NLG
APPROVED BY:	KK	DATE:	02/26/2021

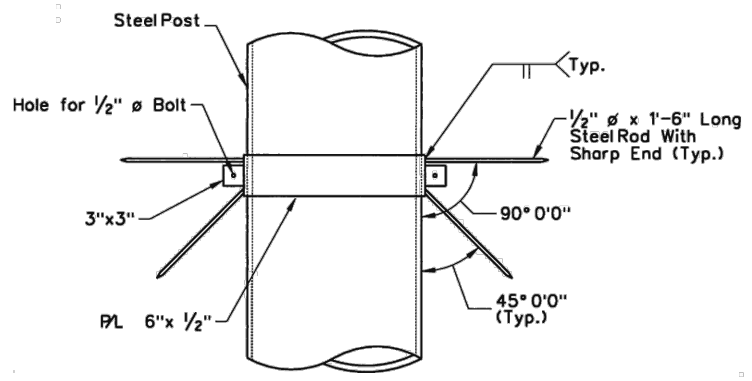
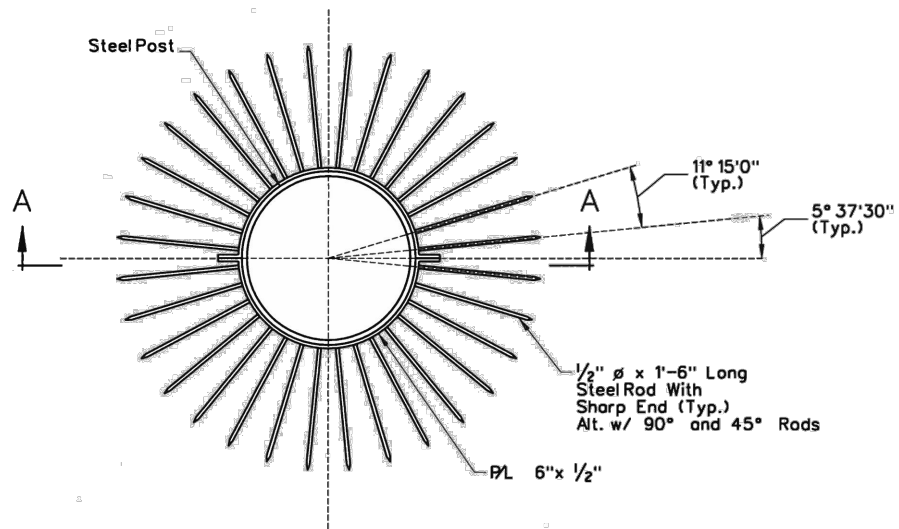
WSP  
 300 South 4th Street, Suite 1200  
 Las Vegas, Nevada 89101  
 Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-T-5</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
 ISSUED FOR CONSTRUCTION





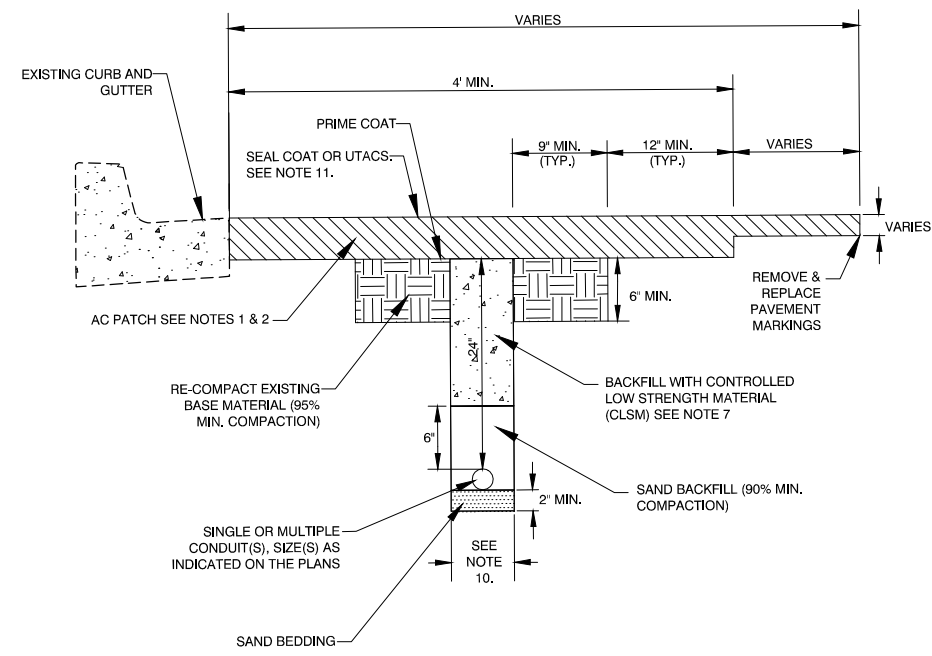


SECTION A-A

NOTES:  
1. ANTI-CLIMBING DEVICE SHALL BE COLOR MATCHED WITH SIGNAL POLE.

ANTI-CLIMBING DEVICE ON SIGNAL POLE

DETAIL A

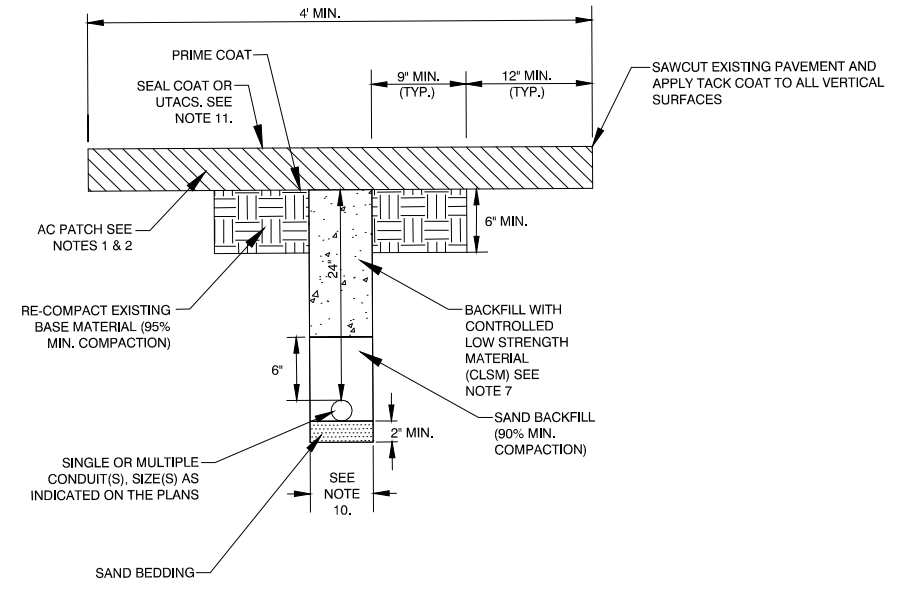


TRENCH BACKFILL DETAIL  
IN PAVED AREAS  
(LONGITUDINAL) NTS

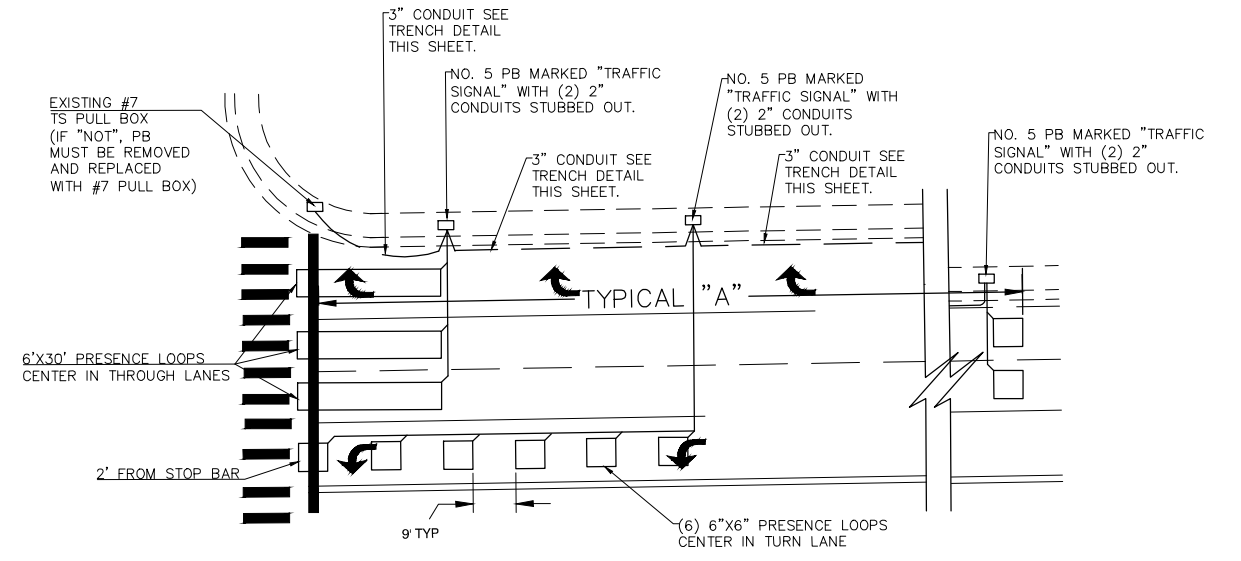
TRENCH NOTES:

- DEPTH TO MATCH EXISTING AC PAVEMENT, BUT NOT LESS THAN 5 INCHES, PLACED IN MULTIPLE LIFTS OF EQUAL THICKNESS (2-1/2 INCHES MIN LIFT)
- PATCH WIDTH SHALL BE SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT USING AGENCY APPROVED SPREADER BOX OR PAVING MACHINE, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11.
- IF SAWCUT IS WITHIN 3 FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- IF 24 INCH COVER IS NOT POSSIBLE, THEN RED CONCRETE ENCASEMENT MIN. 4 INCH ABOVE CONDUIT REQUIRED.
- CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL NOT BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
- PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.
- NO STONES OR LUMPS GREATER THAN 3 INCH PERMITTED.
- TRANSVERSE PAVEMENT PATCHES SHALL BE A MINIMUM WIDTH OF 4 FEET.
- LONGITUDINAL PATCHES SHALL BE A MINIMUM WIDTH OF 4 FEET WITH MILL/OVERLAY MADE AT THE EDGE OF THE TRAVEL LANE, OR THE SHOULDER IF IT IS A PAVED, MARKED SHOULDER, OR THE BIKE LANE IF IT IS A PAVED, MARKED BIKE LANE.
- TOTAL TRENCH WIDTH SHALL BE 6 INCH WIDER THAN THE OUTSIDE EDGES OF CONDUIT(S) INSTALLED. USE CONDUIT SPACERS TO SEPARATE MULTIPLE CONDUITS IN TRENCH BY AT LEAST 1 INCH. PLACE SPACERS AT INTERVALS OF 5 FOOT MAXIMUM. CONDUIT(S) SHALL BE CENTERED IN TRENCH.
- SEAL COAT IS TO BE APPLIED TO PAVEMENT SURFACE UNLESS UTACS IS TO BE APPLIED AS SPECIFIED ON THE PLANS.
- FOR ALL FULL DEPTH PAVEMENT RECONSTRUCTION AREAS, ALL TRENCHING SHALL BE DONE PRIOR TO PAVING OPERATION.

DETAIL B



TRENCH BACKFILL DETAIL  
IN PAVED AREAS  
(TRANSVERSE) NTS



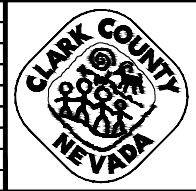
- LOOP NOTES:
- FOR NEW LOOP DETECTION SYSTEMS, LOOP LEAD-IN CABLE CABLES SHALL BE INSTALLED FROM PULL BOX TO CONTROLLER CABINET.
  - CONDUIT ALIGNMENT SHOWN IS SCHEMATIC. ACTUAL ALIGNMENT OF PROPOSED CONDUIT SHALL BE DETERMINED IN FIELD AND CONSOLIDATE INTO A SINGLE TRENCH, WHERE FEASIBLE.
  - PULL ROPE SHALL BE INSTALLED IN ALL NEW CONDUIT.
  - CONTRACTOR TO VERIFY LOCATION OF ALL TRAFFIC LOOPS WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION FOR REPLACEMENT.

TYPICAL "A"	
POSTED SPEED	DISTANCE
25 MPH	155'
35 MPH	250'
45 MPH	360'

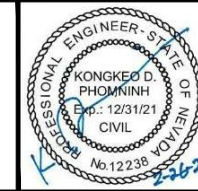
LOOPS DETAIL  
DETAIL C NTS

PLOT DATE: Friday, February 26, 2021 5:16:36 PM Elangjivi, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\BMS48906\2043276.03\_T-7-6.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
TRAFFIC SIGNAL DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

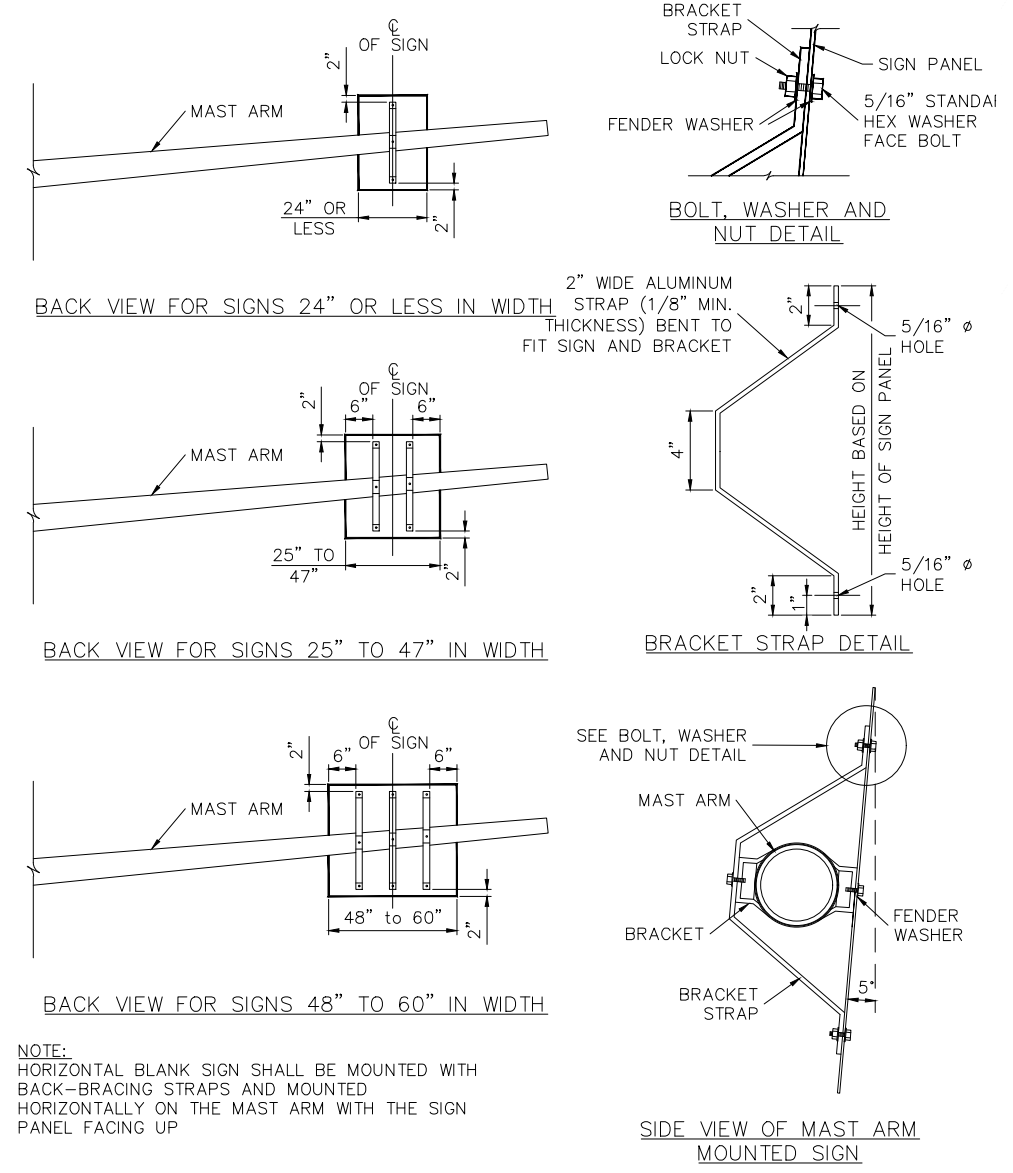
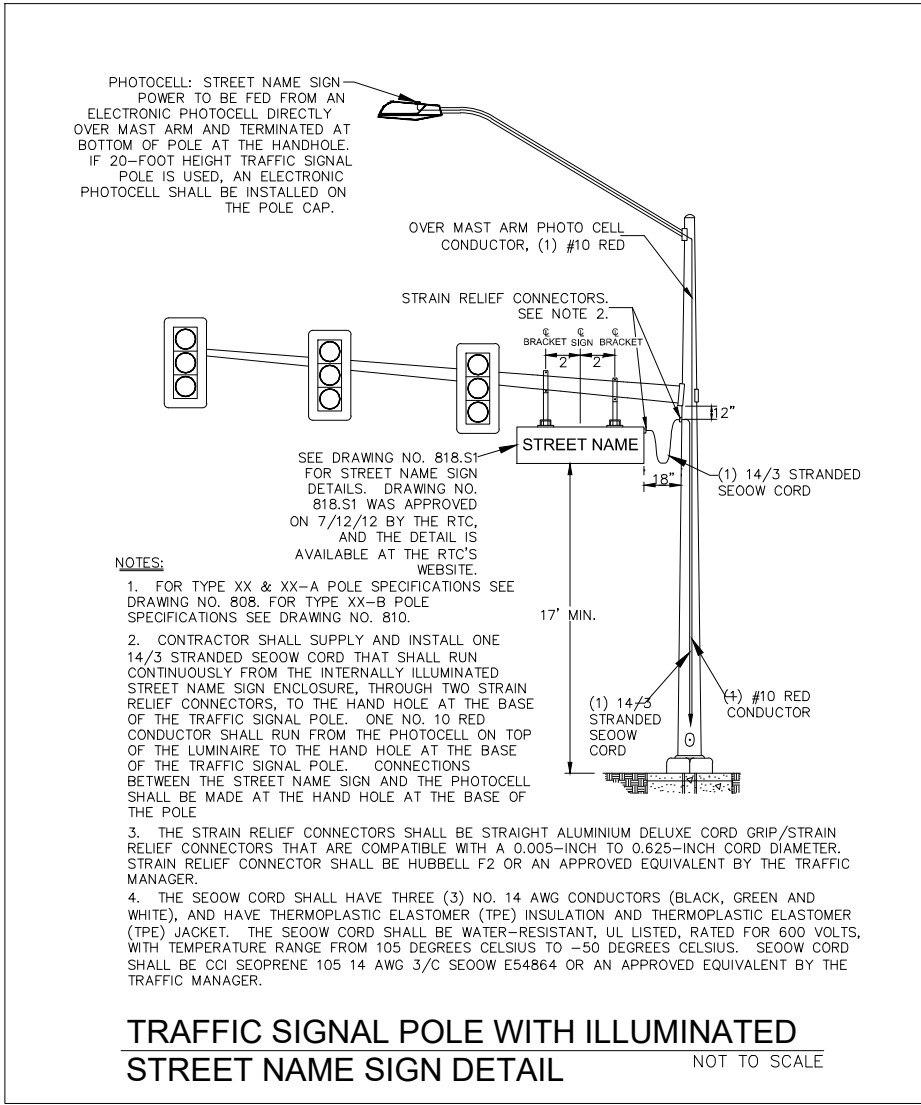


PROJECT No: 2043276.03  
DESIGNED BY: KDP  
APPROVED BY: KK  
DRAWN BY: FME  
CHECKED BY: NLG  
DATE: 02/26/2021  
WSP  
300 South 4th Street, Suite 1200, Las Vegas, Nevada 89101, Phone: 725.724.4400

SCALE	SHEET No
HORIZ: NONE	<b>S-T-7</b>
VERT: NONE	
FIELD BOOK: NONE	L - 2174

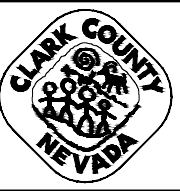
INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION





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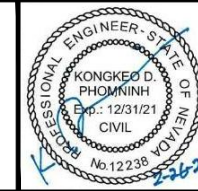
REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**

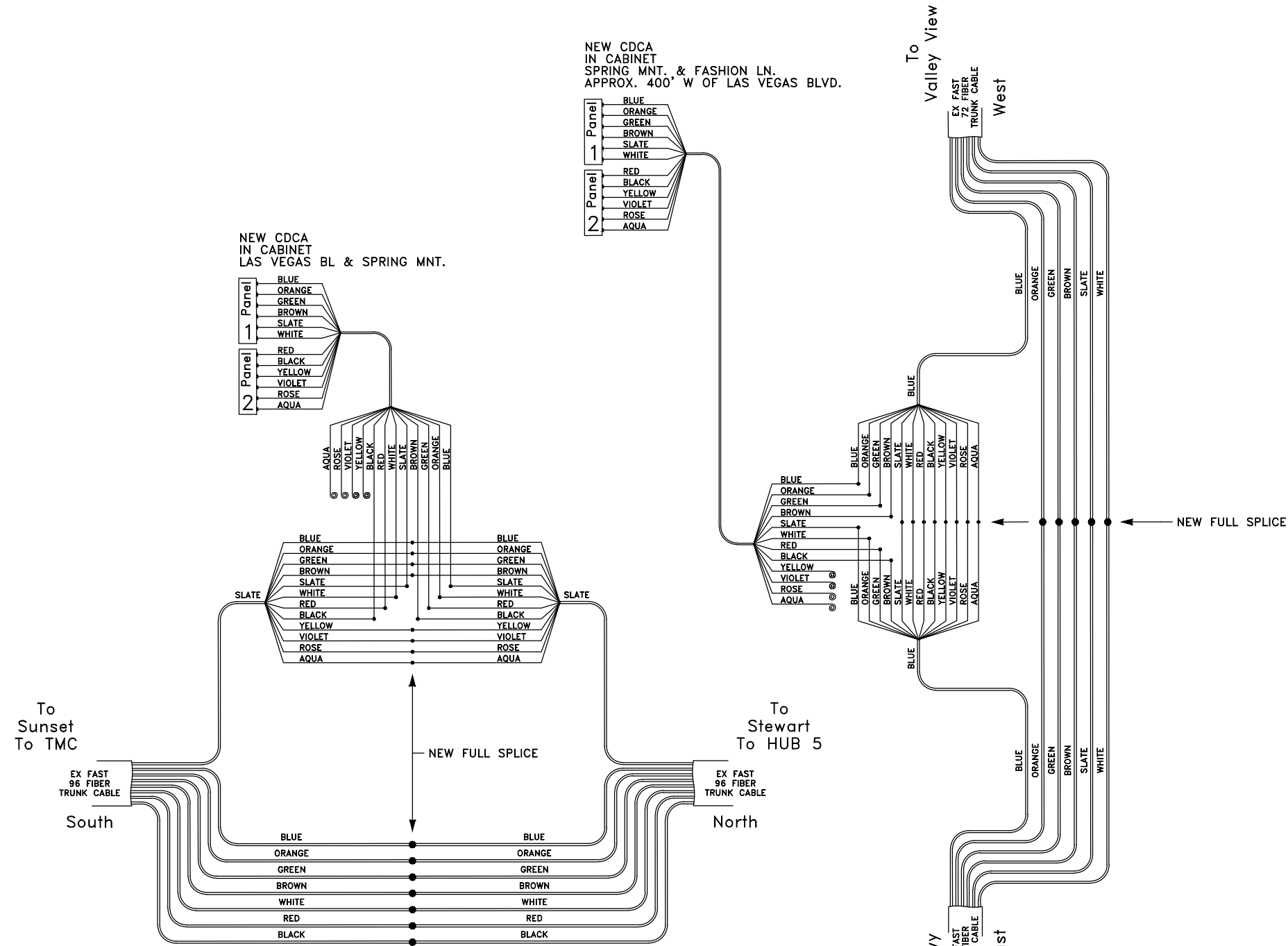
**TRAFFIC SIGNAL DETAILS**

**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 2043276.03	DRAWN BY: FME	SCALE	SHEET No
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APPROVED BY: KK	DATE: 02/26/2021	VERT: NONE	
		FIELD BOOK: NONE	L-2174

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
ISSUED FOR CONSTRUCTION



Las Vegas Blvd & Spring Mountain/Sands

Future Intersection = Fut  
Splice = ●

PLOT DATE: Friday, February 26, 2021 5:16:50 PM Elangyivi, Frisco  
FILE NAME: C:\BMS\2\LBUS\USER\BMS48906\2043276.03\_T-3-T-6.DWG

REV. NO.	DATE	DESCRIPTION	APPROVED



INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
FIBER OPTIC - SPLICE DIAGRAM  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PE STAMP NOT REQUIRED

PROJECT No:	2043276.03	DRAWN BY:	RTC/FAST
DESIGNED BY:	RTC/FAST	CHECKED BY:	RTC/FAST
APPROVED BY:	RTC/FAST	DATE:	02/26/2021



SCALE		SHEET No	
HORIZ:	NONE	<b>S-T-9</b>	L - 2174
VERT:	NONE		
FIELD BOOK	NONE		

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE ISSUED FOR CONSTRUCTION

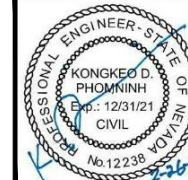
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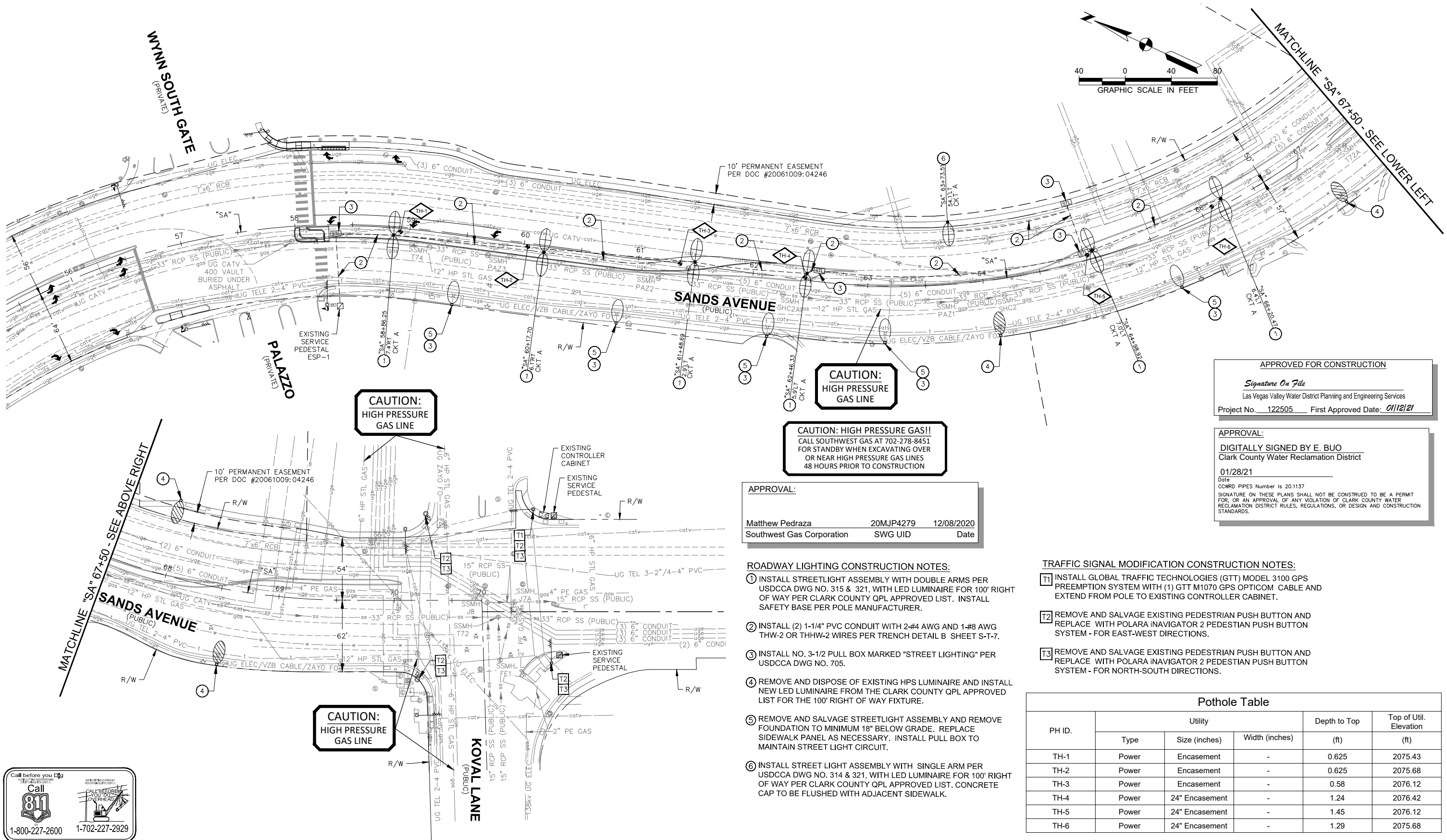
REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
**LIGHTING PLAN**  
 "SA" 56+00.00 to "SA" 70+75.91  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No:	2043276.03	DRAWN BY:	FME	SCALE	SHEET No
DESIGNED BY:	DP	CHECKED BY:	CAB	HORIZ:	NONE
APPROVED BY:	KK	DATE:	02/26/2021	VERT:	NONE
				FIELD BOOK	NONE
				L - 2174	



**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**CAUTION:  
HIGH PRESSURE  
GAS LINE**

**CAUTION: HIGH PRESSURE GAS!!  
CALL SOUTHWEST GAS AT 702-278-8451  
FOR STANDBY WHEN EXCAVATING OVER  
OR NEAR HIGH PRESSURE GAS LINES  
48 HOURS PRIOR TO CONSTRUCTION**

**APPROVAL:**  
 Matthew Pedraza 20MJP4279 12/08/2020  
 Southwest Gas Corporation SWG UID Date

- ROADWAY LIGHTING CONSTRUCTION NOTES:**
- INSTALL STREETLIGHT ASSEMBLY WITH DOUBLE ARMS PER USDCCA DWG NO. 315 & 321, WITH LED LUMINAIRE FOR 100' RIGHT OF WAY PER CLARK COUNTY QPL APPROVED LIST. INSTALL SAFETY BASE PER POLE MANUFACTURER.
  - INSTALL (2) 1-1/4" PVC CONDUIT WITH 2-#4 AWG AND 1-#8 AWG THW-2 OR THHW-2 WIRES PER TRENCH DETAIL B SHEET S-T-7.
  - INSTALL NO. 3-1/2 PULL BOX MARKED "STREET LIGHTING" PER USDCCA DWG NO. 705.
  - REMOVE AND DISPOSE OF EXISTING HPS LUMINAIRE AND INSTALL NEW LED LUMINAIRE FROM THE CLARK COUNTY QPL APPROVED LIST FOR THE 100' RIGHT OF WAY FIXTURE.
  - REMOVE AND SALVAGE STREETLIGHT ASSEMBLY AND REMOVE FOUNDATION TO MINIMUM 18" BELOW GRADE. REPLACE SIDEWALK PANEL AS NECESSARY. INSTALL PULL BOX TO MAINTAIN STREET LIGHT CIRCUIT.
  - INSTALL STREET LIGHT ASSEMBLY WITH SINGLE ARM PER USDCCA DWG NO. 314 & 321, WITH LED LUMINAIRE FOR 100' RIGHT OF WAY PER CLARK COUNTY QPL APPROVED LIST. CONCRETE CAP TO BE FLUSHED WITH ADJACENT SIDEWALK.

- TRAFFIC SIGNAL MODIFICATION CONSTRUCTION NOTES:**
- INSTALL GLOBAL TRAFFIC TECHNOLOGIES (GTT) MODEL 3100 GPS PREEMPTION SYSTEM WITH (1) GTT M1070 GPS OPTICOM CABLE AND EXTEND FROM POLE TO EXISTING CONTROLLER CABINET.
  - REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON AND REPLACE WITH POLARA INAVIGATOR 2 PEDESTRIAN PUSH BUTTON SYSTEM - FOR EAST-WEST DIRECTIONS.
  - REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON AND REPLACE WITH POLARA INAVIGATOR 2 PEDESTRIAN PUSH BUTTON SYSTEM - FOR NORTH-SOUTH DIRECTIONS.

**Pothole Table**

PH ID.	Utility			Depth to Top (ft)	Top of Util. Elevation (ft)
	Type	Size (inches)	Width (inches)		
TH-1	Power	Encasement	-	0.625	2075.43
TH-2	Power	Encasement	-	0.625	2075.68
TH-3	Power	Encasement	-	0.58	2076.12
TH-4	Power	24" Encasement	-	1.24	2076.42
TH-5	Power	24" Encasement	-	1.45	2076.12
TH-6	Power	24" Encasement	-	1.29	2075.68

**APPROVED FOR CONSTRUCTION**  
 Signature On File  
 Las Vegas Valley Water District Planning and Engineering Services  
 Project No. 122505 First Approved Date: 01/12/21

**APPROVAL:**  
 DIGITALLY SIGNED BY E. BUO  
 Clark County Water Reclamation District  
 01/28/21  
 Date  
 CCRWD PIPES Number Is 20.1137  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
 ISSUED FOR CONSTRUCTION



PLOT DATE: Friday, February 26, 2021 5:20:01 PM Elangjivii, Frisco  
 FILE NAME: C:\BMS\2\LB\USER\BMS4890520143276.03\_SL-1-TO-SL-2.DWG



REV. NO.	DATE	DESCRIPTION	APPROVED



**INTERSECTION AND ROADWAY IMPROVEMENTS FOR  
 SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE**  
  
**LIGHTING DETAILS**  
  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 2043276.03      DRAWN BY: FME  
 DESIGNED BY: DP      CHECKED BY: CAB  
 APPROVED BY: KK      DATE: 02/26/2021  
300 South 4th Street, Suite 1200,  
Las Vegas, Nevada 89101  
Phone: 725.724.4400

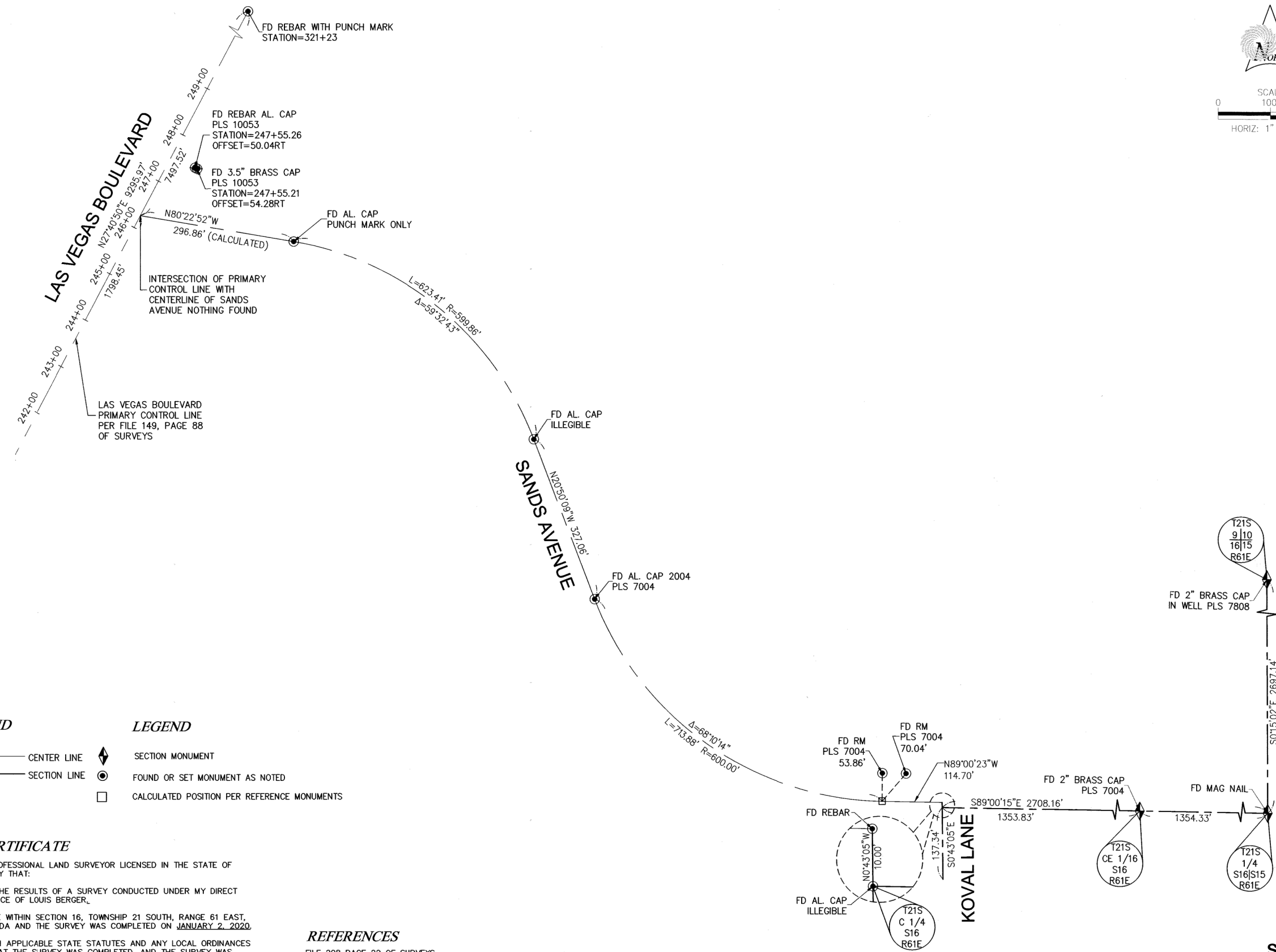
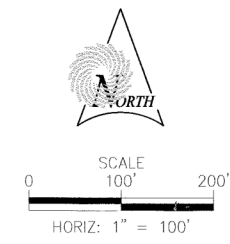
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 VERT: NONE  
 FIELD BOOK: NONE

SHEET No  
**S-SL-2**  
 L - 2174

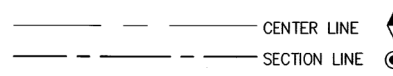
**NEW 200 AMP SERVICE PEDESTAL "ESP-1" CIRCUIT CAPACITY CALCULATION**

SERVICE PEDESTAL LOCATION: SE CORNER OF SANDS AND PALAZZO		
CIRCUIT NAME:	CIRCUIT "A"	
CIRCUIT TYPE:	STREET LIGHT	
CIRCUIT CAPACITY:	60/2P	
SERVICE POINT CAPACITY (AMPS)	60.0	
MAXIMUM ALLOWABLE DRAW (AMPS)	48.0	
EXISTING CIRCUIT LOAD (AMPS)	14.74	
PROPOSED LUMINAIRE LOAD TO CIRCUIT	QTY.	AMPS
NUMBER OF 160 WATTS @ 0.7 AMPS (100'R/W OR GREATER)	13	9.1
EXISTING + PROPOSED LOAD (AMPS)	23.84	
REMAINING AVAILABLE LOAD (AMPS)	24.16	
LOCATION "SA" 58+34.60, 69.5' RT		

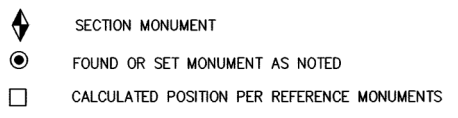
INTERSECTION AND ROADWAY IMPROVEMENTS FOR SANDS AVENUE FROM LAS VEGAS BOULEVARD TO KOVAL LANE  
 ISSUED FOR CONSTRUCTION



**LINE LEGEND**



**LEGEND**

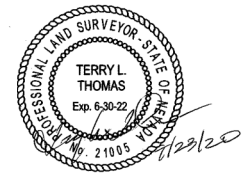


**SURVEYOR'S CERTIFICATE**

I, TERRY L. THOMAS, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, DO HEREBY CERTIFY THAT:

1. THIS PLAT REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF LOUIS BERGER.
2. THE LANDS SURVEYED LIE WITHIN SECTION 16, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA AND THE SURVEY WAS COMPLETED ON JANUARY 2, 2020.
3. THIS PLAT COMPLIES WITH APPLICABLE STATE STATUTES AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE NEVADA ADMINISTRATIVE CODE STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS.
4. THE MONUMENTS ARE OF THE CHARACTER SHOWN AND OCCUPY THE POSITIONS INDICATED AND ARE OF SUFFICIENT NUMBER AND DURABILITY.

TERRY L. THOMAS, P.L.S.  
NEVADA CERTIFICATE NO. 21005



**REFERENCES**

- FILE 208 PAGE 22 OF SURVEYS
- FILE 180 PAGE 76 OF SURVEYS
- FILE 179 PAGE 43 OF SURVEYS
- FILE 169 PAGE 20 OF SURVEYS
- FILE 201 PAGE 85 OF SURVEYS
- FILE 149 PAGE 88 OF SURVEYS
- FILE 147 PAGE 75 OF SURVEYS
- FILE 97 PAGE 37 OF SURVEYS
- FILE 27 PAGE 60 OF SURVEYS
- BOOK 140 PAGE 44 OF PLATS
- BOOK 139 PAGE 25 OF PLATS
- BOOK 29 PAGE 96 OF PLATS
- BOOK 8 PAGE 23 OF PLATS
- BOOK 01 PAGE 87 OF PLATS
- BOOK 97 PAGE 23 OF PARCEL MAPS
- BOOK 91 PAGE 89 OF PARCEL MAPS

**BASIS OF BEARING**

NORTH 27°40'50" EAST BEING THE BEARING OF THE PRIMARY CONTROL LINE FOR LAS VEGAS BOULEVARD BETWEEN SAHARA AVENUE AND SANDS AVENUE AS SHOWN IN FILE 149, PAGE 88, OF SURVEYS, OFFICIAL RECORDS OF THE CLARK COUNTY RECORDS OFFICE, CLARK COUNTY, NEVADA.

**COUNTY RECORDER'S NOTE**

ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX, N.R.S. 278.5695

**RECORD OF SURVEY**  
FOR CLARK COUNTY  
A PORTION OF SECTION 16, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA



5135 CAMINO AL NORTE, SUITE 160  
NORTH LAS VEGAS, NEVADA 89031  
TEL 702.830.9175  
www.sunrise-eng.com

DATE: 01/16/2020 JOB#: 7126 SHEET 1 OF 1

**S-ROS-1**

NO. 2017  
FILED AT THE REQUEST OF:  
CLARK COUNTY  
DATE: 01/28/2020 AT 3:22 pm.  
FILE: 218 PAGE: 94  
OF SURVEYS  
OFFICIAL RECORDS BOOK NO.  
20200928  
CLARK COUNTY, NEVADA RECORDS  
DEBBIE CONWAY - RECORDER  
FEE: \$4.00 DEPUTY: KWH  
FILE 218 PAGE 94