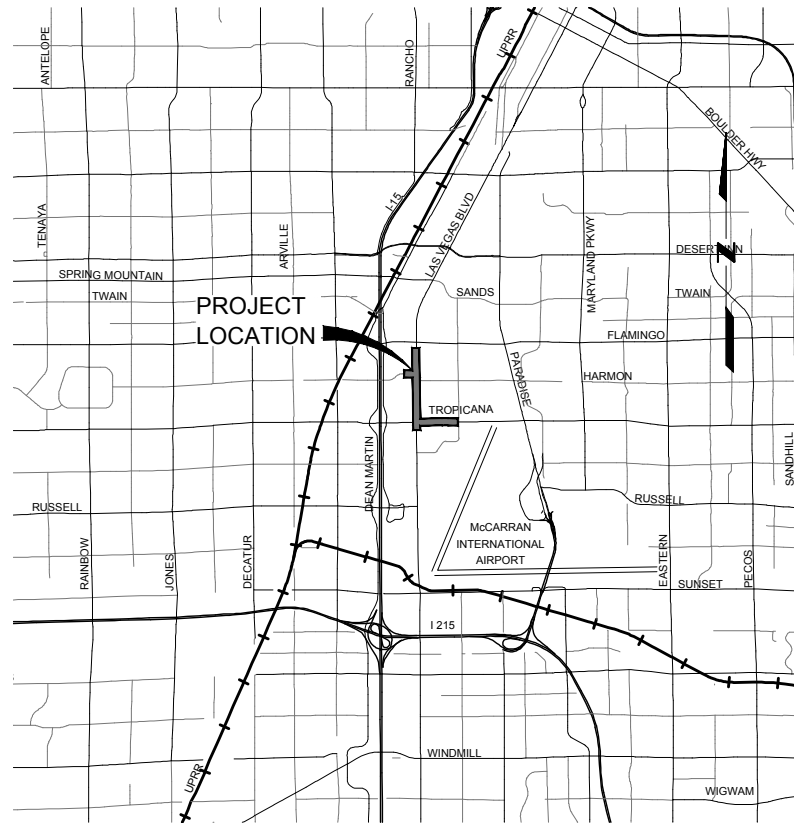


DEPARTMENT OF PUBLIC WORKS



Vicinity Map
NOT TO SCALE



2021

IMPROVEMENT PLANS FOR:

**LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
TROPICANA AVENUE TO FLAMINGO ROAD (PHASE E&F)**

**TROPICANA AVENUE ROADWAY IMPROVEMENTS
LAS VEGAS BOULEVARD TO KOVAL LANE**

**HARMON AVENUE IMPROVEMENTS
HARMON AVENUE & CITY CENTER**

**LAS VEGAS VALLEY WATER DISTRICT CONTRACT NO. C1497
LAS VEGAS BOULEVARD WATERLINE REPLACEMENT FROM
TROPICANA AVENUE TO FLAMINGO ROAD**

**ISSUED FOR
CONSTRUCTION**

County Commissioners

- Marilyn Kirkpatrick, Chair
- James B Gibson, Vice Chair
- Justin C Jones
- William McCurdy II
- Ross Miller
- Michael Naft
- Tick Segerblom

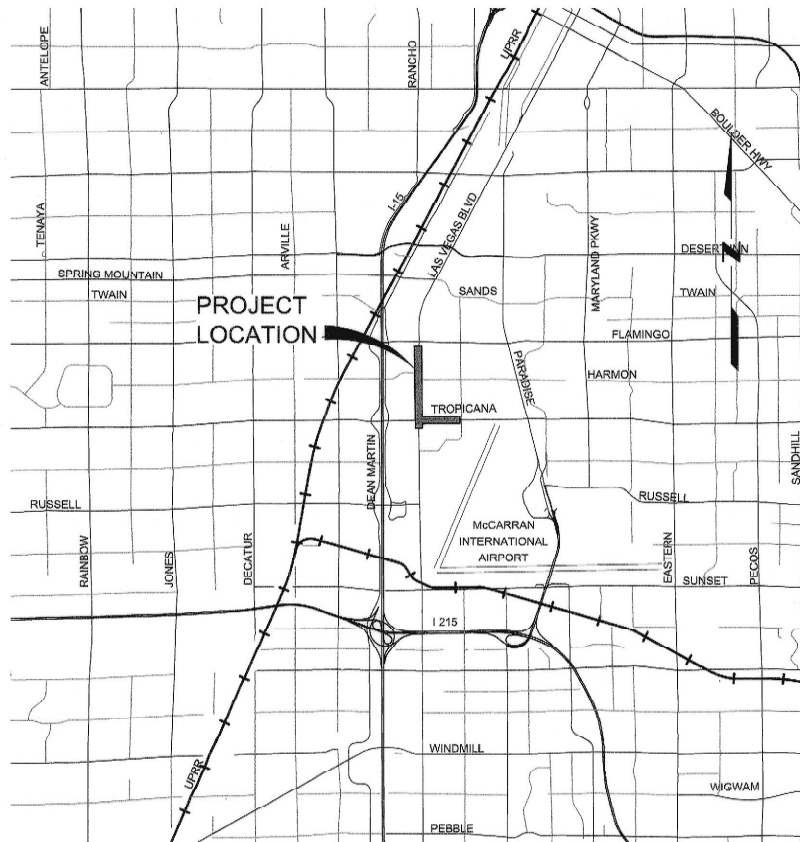
AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	REVISIONS			TRAFFIC MANAGEMENT DIVISION
						NUMBER	DESCRIPTION	DATE	
									COVER SHEET
									L-2304
									&
									L-2302

DEPARTMENT OF PUBLIC WORKS



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Vicinity Map
NOT TO SCALE

County Commissioners

Marilyn Kirkpatrick, Chair
 James B Gibson, Vice Chair
 Justin C Jones
 William McCurdy II
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 Michael Naft
 Tick Segerblom

2021 IMPROVEMENT PLANS FOR: LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS TROPICANA AVENUE TO FLAMINGO ROAD (PHASE E&F) TROPICANA AVENUE ROADWAY IMPROVEMENTS LAS VEGAS BOULEVARD TO KOVAL LANE

County Manager

Yolanda T King

Director of Public Works

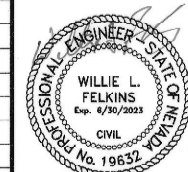
Approved:

Denis Cederburg
 Denis Cederburg

FUNDED BY
 CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

ISSUED FOR CONSTRUCTION

AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	NUMBER	REVISIONS DESCRIPTION	DATE
CENTRAL TELEPHONE COMPANY DBA CENTURYLINK	<i>Brad Hooton</i>	10/19/21	DEPUTY DIRECTOR	<i>Willie L. Felkins</i>	10-7-2021			
LAS VEGAS VALLEY WATER DISTRICT	SRI KAMOJALA	2/7/2022	DEPUTY DIRECTOR	<i>Kayna L. Taylor</i>	10/14/21			
SOUTHWEST GAS CORPORATION	FABRICIO LU-SALCEDO 20FXL5288	11/2/2021	ROAD DIVISION	<i>Willie L. Felkins</i>	10-14-2021			
NV ENERGY COMPANY (TRANSMISSION)	<i>Joe Hill</i>	11/10/21	TRAFFIC MANAGEMENT DIVISION	<i>Willie L. Felkins</i>	10-7-21			
NV ENERGY COMPANY (DISTRIBUTION)	<i>Sandra Heyva</i>	10-19-2021	COUNTY SURVEYOR'S OFFICE	<i>Kayna L. Taylor</i>	10/14/21			
CLARK COUNTY WATER RECLAMATION DISTRICT	DIGITALLY SIGNED P.HOTT	10/19/2021	DESIGN ENGINEERING DIVISION	<i>Kayna L. Taylor</i>	10/14/21			
COX COMMUNICATIONS, LAS VEGAS, INC	<i>Eric Klake</i>	10-19-2021	CONSTRUCTION MANAGEMENT DIVISION	<i>Willie L. Felkins</i>	10/14/21			
			DEVELOPMENT REVIEW DIVISION					

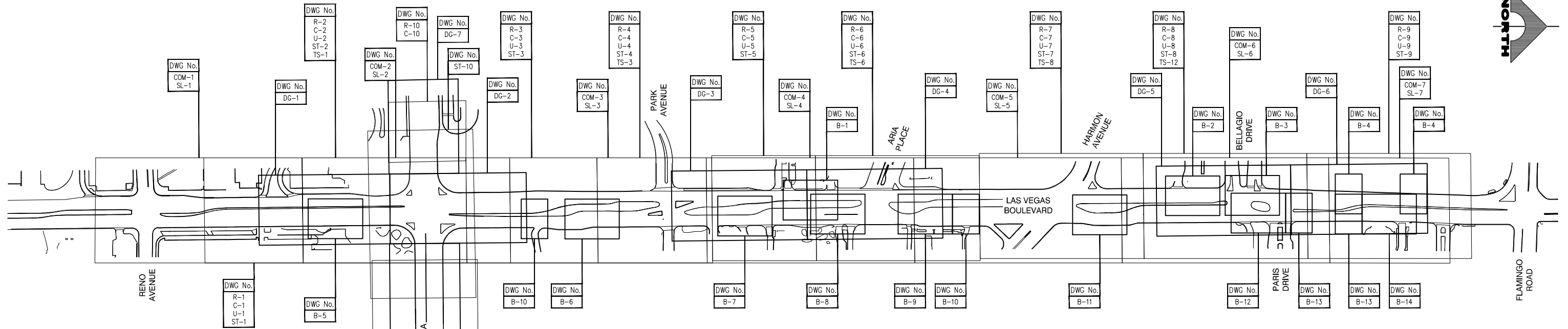


TRAFFIC MANAGEMENT DIVISION

COVER SHEET

L-2304

KEY MAP



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25	R-10	REMOVAL PLAN "TRW" 54+50.00 TO "TRW" 57+25.00
26	R-11	REMOVAL PLAN "TRE" 61+75.00 TO "TRE" 67+75.00
27	R-12	REMOVAL PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
28	R-13	REMOVAL PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
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36	C-7	CONSTRUCTION PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
37	C-8	CONSTRUCTION PLAN "LVB" 187+00.00 TO "LVB" 194+50.00

SHT. NO.	DWG. NO.	DESCRIPTION
38	C-9	CONSTRUCTION PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
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41	C-12	CONSTRUCTION PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
42	C-13	CONSTRUCTION PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
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70	DG-2	DETAILED GRADING PLAN "LVB" 152+50.00 TO "LVB" 158+75.00
71	DG-3	DETAILED GRADING PLAN "LVB" 165+40.00 TO "LVB" 171+60.00

SHT. NO.	DWG. NO.	DESCRIPTION
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73	DG-5	DETAILED GRADING PLAN "LVB" 187+50.00 TO "LVB" 193+75.00
74	DG-6	DETAILED GRADING PLAN "LVB" 193+75.00 TO "LVB" 200+00.00
75	DG-7	DETAILED GRADING PLAN "TRW" 53+50.00 TO "TRW" 57+80.00
76	DG-8	DETAILED GRADING PLAN "TRE" 61+00.00 TO "TRE" 67+20.00
77	DG-9	DETAILED GRADING PLAN "TRE" 67+20.00 TO "TRE" 73+40.00
78	DG-10	DETAILED GRADING PLAN "TRE" 73+40.00 TO "TRE" 79+60.00
79	DG-11	DETAILED GRADING PLAN "TRE" 79+60.00 TO "TRE" 85+80.00
80	DG-12	DETAILED GRADING PLAN GRADING DETAILS
81	DG-13	DETAILED GRADING PLAN GRADING DETAILS
82	DG-14	DETAILED GRADING PLAN GRADING DETAILS
83	DG-15	DETAILED GRADING PLAN GRADING DETAILS
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85	DG-17	DETAILED GRADING PLAN GRADING DETAILS
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91	U-2	UTILITY PLAN "LVB" 148+50.00 TO "LVB" 156+00.00
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95	U-6	UTILITY PLAN "LVB" 172+00.00 TO "LVB" 179+50.00
96	U-7	UTILITY PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
97	U-8	UTILITY PLAN "LVB" 187+00.00 TO "LVB" 194+50.00
98	U-9	UTILITY PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
99	U-10	UTILITY PLAN "TRW" 54+50.00 TO "TRE" 57+25.00
100	U-11	UTILITY PLAN "TRE" 61+75.00 TO "TRE" 67+75.00
101	U-12	UTILITY PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
102	U-13	UTILITY PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
103	U-14	UTILITY PLAN "TRE" 82+50.00 TO "TRE" 89+50.00

SHT. NO.	DWG. NO.	DESCRIPTION
104	TS-1	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/TROPICANA AVENUE
105	TS-2	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/TROPICANA AVENUE
106	TS-3	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/PARK AVENUE
107	TS-4	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/PARK AVENUE
108	TS-5	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/PARK AVENUE
109	TS-6	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/ARIA PLACE
110	TS-7	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/ARIA PLACE
111	TS-8	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/HARMON AVENUE
112	TS-9	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/HARMON AVENUE
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115	TS-12	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
116	TS-13	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
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120	TS-17	TRAFFIC SIGNAL MODIFICATION PLAN TROPICANA AVENUE/DUKE ELLINGTON WAY
121	TS-18	TRAFFIC SIGNAL SCHEDULES AND DETAILS TROPICANA AVENUE/DUKE ELLINGTON WAY
122	TS-19	TRAFFIC SIGNAL SCHEDULES AND DETAILS TROPICANA AVENUE/DUKE ELLINGTON WAY
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124	COM-2	COMMUNICATION PLAN "LVB" 148+50.00 TO "LVB" 158+00.00
125	COM-3	COMMUNICATION PLAN "LVB" 158+00.00 TO "LVB" 167+00.00
126	COM-4	COMMUNICATION PLAN "LVB" 167+00.00 TO "LVB" 176+50.00
127	COM-5	COMMUNICATION PLAN "LVB" 176+50.00 TO "LVB" 186+00.00
128	COM-6	COMMUNICATION PLAN "LVB" 186+00.00 TO "LVB" 195+50.00
129	COM-7	COMMUNICATION PLAN "LVB" 195+50.00 TO "LVB" 201+00.00
130	CDT-1	OPEN TRENCH INSTALLATION DETAILS
131	CDT-2	OPEN TRENCH INSTALLATION DETAILS
132	CDT-3	OPEN TRENCH INSTALLATION DETAILS
133	CDT-4	6"x6" COMMUNICATION MANHOLE DETAILS

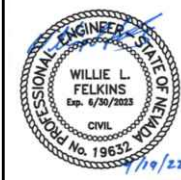
SHT. NO.	DWG. NO.	DESCRIPTION
134	CDT-5	4"x4" F.A.S.T. MAHOLE DETAILS
135	CDT-6	4"x4"x4" VERIZON MANHOLE DETAILS
136	CDT-7	COX/MISC. DETAILS
137	CDT-8	SMART POLE DETAIL
138	CDT-9	SMART POLE LAYOUT
139	CDT-10	LANDSCAPE LIGHT TYPICAL DETAIL
140	CDT-11	STRUCTURAL DETAILS
141	SL-1	STREET LIGHTING PLAN "LVB" 139+00.00 TO "LVB" 148+50.00
142	SL-2	STREET LIGHTING PLAN "LVB" 148+50.00 TO "LVB" 158+00.00
143	SL-3	STREET LIGHTING PLAN "LVB" 158+00.00 TO "LVB" 167+00.00
144	SL-4	STREET LIGHTING PLAN "LVB" 167+00.00 TO "LVB" 176+50.00
145	SL-5	STREET LIGHTING PLAN "LVB" 176+50.00 TO "LVB" 186+00.00
146	SL-6	STREET LIGHTING PLAN "LVB" 186+00.00 TO "LVB" 195+50.00
147	SL-7	STREET LIGHTING PLAN "LVB" 195+50.00 TO "LVB" 201+00.00
148	SL-8	STREET LIGHTING/ITS PLAN "TRE" 61+50.00 TO "TRE" 71+00.00
149	SL-9	STREET LIGHTING/ITS PLAN "TRE" 71+00.00 TO "TRE" 80+50.00
150	SL-10	STREET LIGHTING/ITS PLAN "TRE" 80+50.00 TO "TRE" 88+00.00
151	SL-11	CIRCUIT CAPACITY VERIFICATIONS
152	SL-12	SPICE DIAGRAMS
153	ST-1	SIGNING AND STRIPING PLAN "LVB" 144+00.00 TO "LVB" 148+50.00
154	ST-2	SIGNING AND STRIPING PLAN "LVB" 148+50.00 TO "LVB" 156+00.00
155	ST-3	SIGNING AND STRIPING PLAN "LVB" 156+00.00 TO "LVB" 162+00.00
156	ST-4	SIGNING AND STRIPING PLAN "LVB" 162+00.00 TO "LVB" 167+25.00
157	ST-5	SIGNING AND STRIPING PLAN "LVB" 167+25.00 TO "LVB" 172+00.00
158	ST-6	SIGNING AND STRIPING PLAN "LVB" 172+00.00 TO "LVB" 179+50.00
159	ST-7	SIGNING AND STRIPING PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
160	ST-8	SIGNING AND STRIPING PLAN "LVB" 187+00.00 TO "LVB" 194+50.00
161	ST-9	SIGNING AND STRIPING PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
162	ST-10	SIGNING AND STRIPING PLAN "TRW" 56+00.00 TO "TRE" 63+50.00
163	ST-11	SIGNING AND STRIPING PLAN "TRE" 63+50.00 TO "TRE" 67+75.00
164	ST-12	SIGNING AND STRIPING PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
165	ST-13	SIGNING AND STRIPING PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
166	ST-14	SIGNING AND STRIPING PLAN "TRE" 82+50.00 TO "TRE" 89+50.00
167	ST-15	SIGNING AND STRIPING DETAILS
168	ST-16	SIGNING AND STRIPING DETAILS
169	ST-17	SIGN DETAILS



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

KEYMAP AND INDEX OF DRAWINGS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	G-2
VERT: NONE	SHT. 2 OF 169
FIELD BOOK	L-2304

LEGEND

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

ABBREVIATIONS

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

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 NOTIFICATION@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 702-901-8400 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, 702-901-8400 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

LVWD PROJECT #139072

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVWD 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 LVWD INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.**
- ALL WORK SHALL CONFORM TO LVWD 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 LVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVWD 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 LVWD 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 LVWD 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 LVWD APPROVED PRODUCT'S LIST (APL) FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
- TELEPHONE **USA NORTH 811** "CALL BEFORE YOU DIG" AT "811" OR 1-800-642-2444.
- THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVWD) 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 LVWD 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 ADJACENT TO A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVWD WITH AN APPROPRIATELY SIZED PLAN FINISH CONCRETE PATCH. THE LVWD 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.
- DRY UTILITY NOTES:** MAINTAIN A MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSINGS. MAINTAIN A MINIMUM OF 3' PARALLEL SEPARATION.

REVISED 10/18/2021

DIGITALLY SIGNED BY SRI KAMOJALIA

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 139072 FIRST APPROVED DATE, 02/07/22

DWG. NOS. COVER, C-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, 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, B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-12, B-13, B-14, SD-1, SD-2, SD-3, U-1, U-2, U-3, U-4, U-5, U-6, U-7, U-8, U-9, U-10, U-11, U-12, U-13, U-14, TS-1, TS-3, TS-6, TS-8, TS-9, TS-12, TS-15, TS-17, COM-1, COM-2, COM-3, COM-4, COM-5, COM-6, COM-7, SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-7, SL-8, SL-9, SL-10

BASIS OF BEARING

SOUTH 001°4'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC 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.

ELEVATION: 2128.083 (FEET) (CALCULATED)
648.641 (METERS)

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

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "8C128NWS_2018", BEING A RIVET AND ROUND ALUMINUM PLATE IN TOP OF CURB IN AN ISLAND IN THE SOUTHWEST QUADRANT OF TROPICANA AVENUE AND LAS VEGAS BOULEVARD.

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 CORPORATION 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.
 - ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.
- FOR VALVE ADJUSTMENT CONTACT 702-528-7855 14 DAYS PRIOR TO CONSTRUCTION.
- FOR ADJUSTMENT OF CATHODIC PROTECTION TEST POINTS CONTACT 702-528-7873 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.

"THE AFFIXED CENTRAL TELEPHONE COMPANY d/b/a 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 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 CCDFPP 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. 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 40°F. 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.
 - SPEED HUMPS 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 STUB STREET, MAY FRONT ONTO A STUB STREET WITH A MINIMUM WIDTH OF 25 FEET FROM BACK-OF-CURB TO BACK-OF-CURB, PROVIDED THAT ALL RESIDENCES FRONTING ON THE STUB STREET ARE PROVIDED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND THAT ON-STREET PARKING ON THE STUB 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


	<h1 style="margin: 0;">LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD</h1> <h2 style="margin: 0;">LEGEND, ABBREVIATIONS, AND GENERAL NOTES</h2> <h3 style="margin: 0;">CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS</h3>		<p>PROJECT No: 500-897-LV-EF DRAWN BY: TAA</p> <p>DESIGNED BY: DSH CHECKED BY: WLF</p> <p>APPROVED BY: _____</p>	<p>SCALE</p> <p>HORIZ: NONE</p> <p>VERT: NONE</p> <p>FIELD BOOK</p>	<p>DRAWING NO.</p> <h1 style="font-size: 2em;">G-3</h1> <p>SHT. 3 OF 169</p> <p>L-2304</p>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">REV. NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 20%;">APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV. NO.	DATE	DESCRIPTION	APPROVED									
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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

 WILLIE L. FELKINS, P.E. 19632 DATE 4/19/2022

DIGITALLY SIGNED BY P. SHOTT 10/19/21

CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER: 21.983

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. NO SEWER PROPOSED.

CCWRD MH SCHEDULE

COUNT #	MH #	SHEET #	CORROSION PROTECTION	NOTE
1	EBT1	U-2	N	2
2	EBT2	U-2	*Y	2
3	EBT3	U-2	*Y	2
4	HW13	U-2	N	2
5	H59	U-2	N	2
6	TRS30	U-2	*Y	2
7	TRS31	U-2	*Y	2
8	TRS32	U-2	*Y	2
9	HW14	U-2	N	2
10	EBT4	U-3	N	2
11	707-28	U-4	N	2
12	N51A	U-4	N	2
13	N52	U-4	N	2
14	707-29	U-5	N	2
15	N54	U-5	N	2
16	N55	U-5	N	2
17	RHS7A	U-8	*Y	2
18	RHS7	U-9	*Y	2
19	16221212	U-11	N	2
20	H57	U-11	*Y	2
21	H58	U-11	N	2
22	TRS29	U-11	*Y	2
23	707-1	U-12	*Y	2
24	707-3	U-12	*Y	2
25	707-4	U-12	*Y	2
26	F70	U-12	*Y	2
27	H56	U-12	N	2
28	16228001	U-13	N	2
29	707-5A	U-13	N	2
30	707-5	U-13	*Y	2
31	707-6	U-13	*Y	2
32	707-7	U-13	*Y	2
33	707-8	U-13	*Y	2
34	707-9	U-13	*Y	2
35	707-10A	U-13	*Y	2
36	707-10	U-13	*Y	2
37	707-11A	U-13	N	2
38	707-11	U-13	*Y	2
39	F68A	U-13	N	2
40	F68BZ	U-13	N	2
41	F69A	U-13	N	2
42	707-12	U-14	*Y	2

*CCWRD RECORDS INDICATE EXISTING SANITARY SEWER MANHOLE HAS CORROSION PROTECTION. CONTRACTOR TO FIELD VERIFY AND REAPPLY CORROSION PROTECTION WHERE NEEDED FOR ADJUSTMENTS.

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 48 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, LAWNS, 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. 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 SOO 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.
- COX 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 RAMPS 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 AND REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. IMMEDIATELY CONTACT LONNIE BROWN, 702-290-1979 (CELL) OR 702-901-8400 (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 RESUBMITTED APPROVED MAIN LINE SEWER EXTENSION PLANS TO PROVIDE NEW MAIN TO REROUTE ANY SEWERS THAT CANNOT BE RECONNECTED.

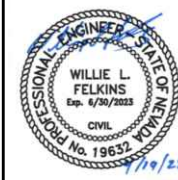
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

GENERAL NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



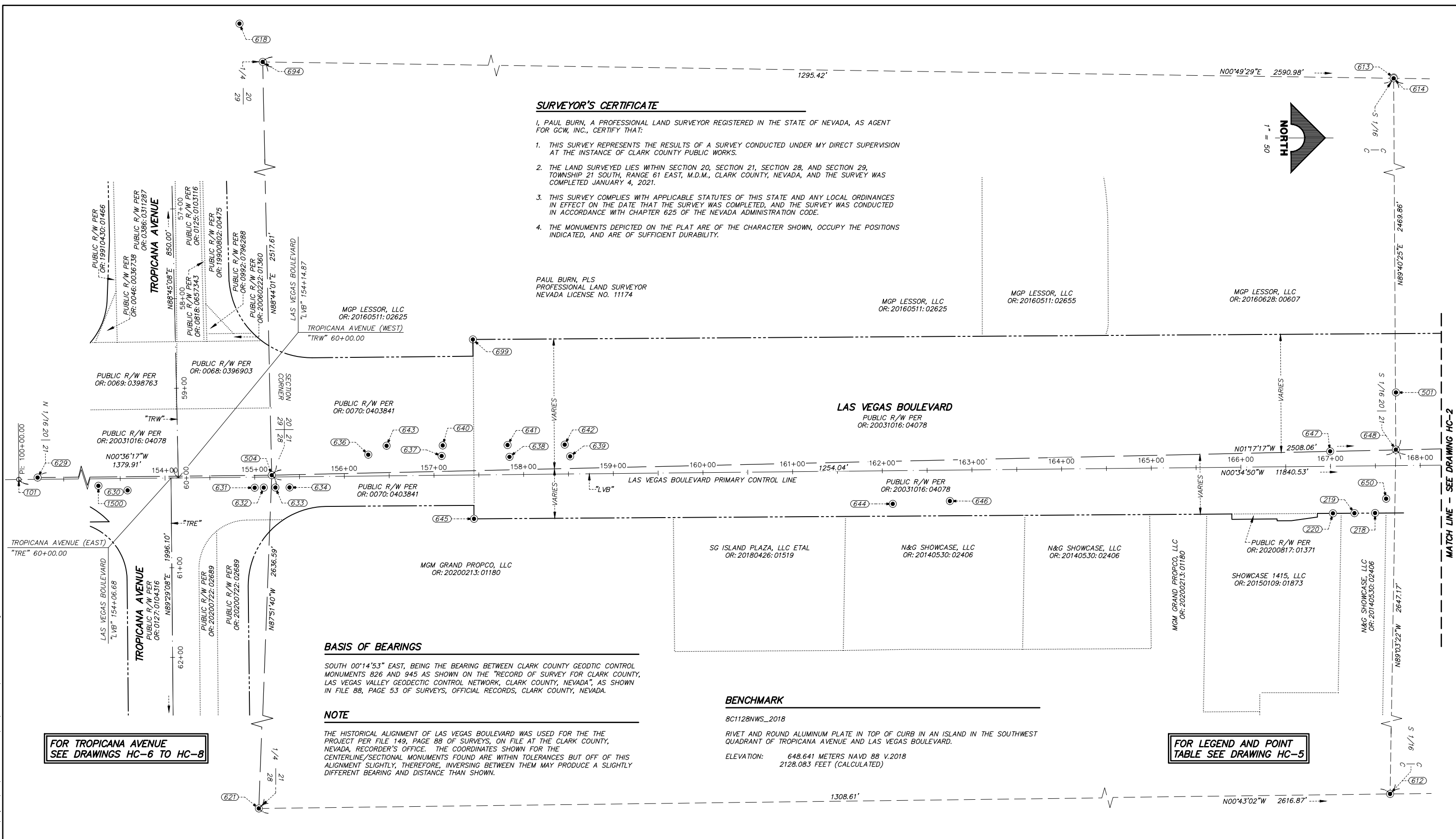
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	G-4
VERT: NONE	SHT. 4 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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SURVEYOR'S CERTIFICATE

I, PAUL BURN, A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEVADA, AS AGENT FOR GCW, INC., CERTIFY THAT:

1. THIS SURVEY REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF CLARK COUNTY PUBLIC WORKS.
2. THE LAND SURVEYED LIES WITHIN SECTION 20, SECTION 21, SECTION 28, AND SECTION 29, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED JANUARY 4, 2021.
3. 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.
4. 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

MGP LESSOR, LLC
OR: 20160511: 02625

MGP LESSOR, LLC
OR: 20160511: 02655

MGP LESSOR, LLC
OR: 20160628: 00607

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, NEVADA, LAS VEGAS VALLEY GEODETIC CONTROL NETWORK, CLARK COUNTY, NEVADA", AS SHOWN IN FILE 88, PAGE 53 OF SURVEYS, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

NOTE

THE HISTORICAL ALIGNMENT OF LAS VEGAS BOULEVARD WAS USED FOR THE THE PROJECT PER FILE 149, PAGE 88 OF SURVEYS, 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.

BENCHMARK

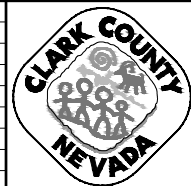
8C1128NWS_2018

RIVET AND ROUND ALUMINUM PLATE IN TOP OF CURB IN AN ISLAND IN THE SOUTHWEST QUADRANT OF TROPICANA AVENUE AND LAS VEGAS BOULEVARD.

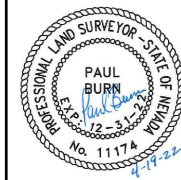
ELEVATION: 648.641 METERS NAVD 88 V.2018
2128.083 FEET (CALCULATED)

**FOR TROPICANA AVENUE
SEE DRAWINGS HC-6 TO HC-8**

**FOR LEGEND AND POINT
TABLE SEE DRAWING HC-5**



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



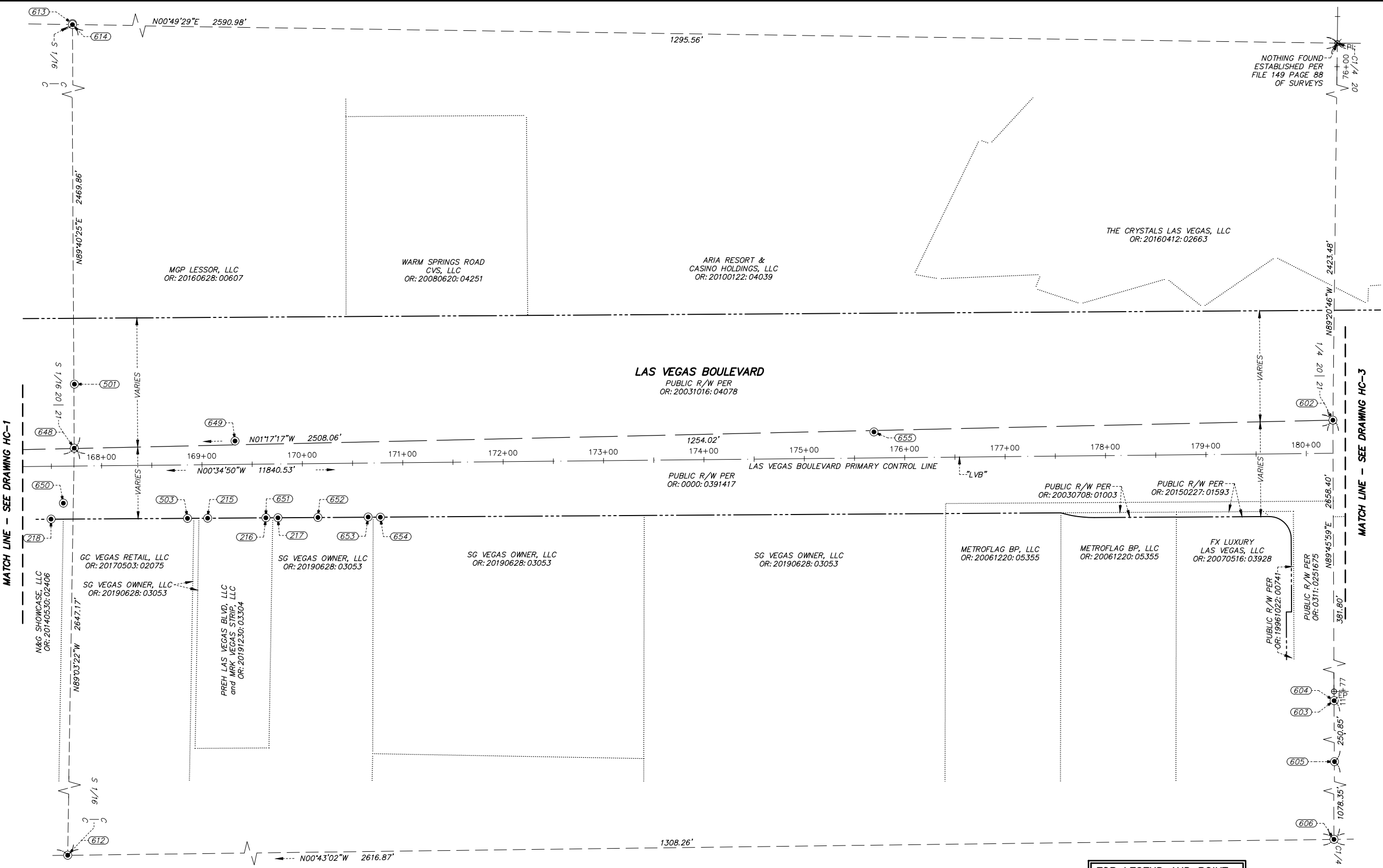
PROJECT No: 500-897-LV-EF DRAWN BY: WM
DESIGNED BY: WM CHECKED BY: CW
APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcwengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-1
VERT: NONE	SHT. 5 OF 169
FIELD BOOK	L-2304

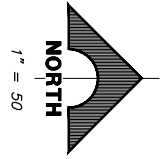
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
BID NO.: 605978-21

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NOTHING FOUND
ESTABLISHED PER
FILE 149 PAGE 88
OF SURVEYS

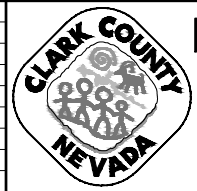


MATCH LINE - SEE DRAWING HC-1

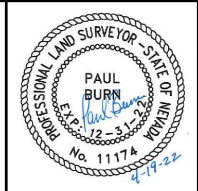
MATCH LINE - SEE DRAWING HC-3

FOR LEGEND AND POINT
TABLE SEE DRAWING HC-5

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: WM
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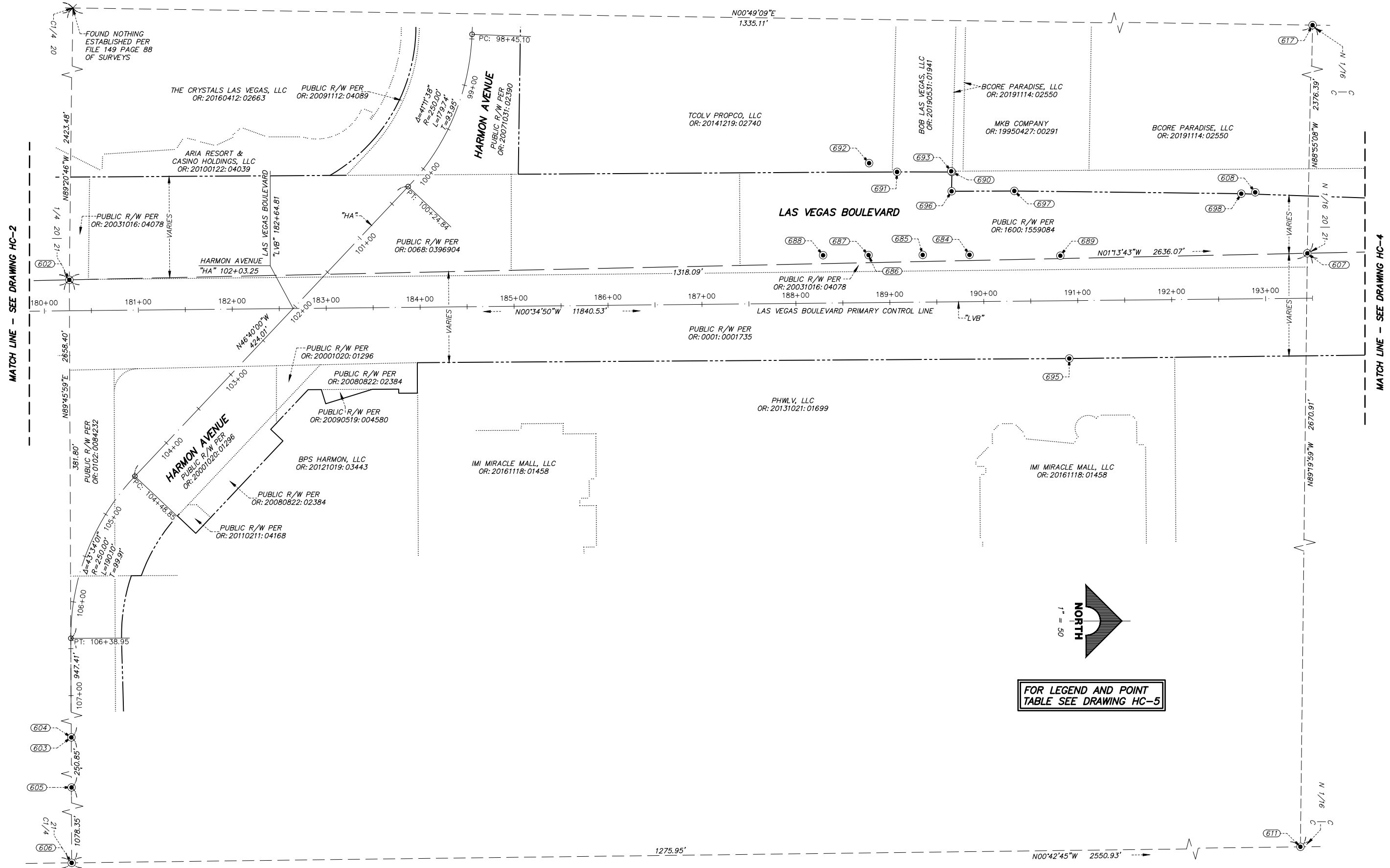
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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-2
VERT: NONE	SHT. 6 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

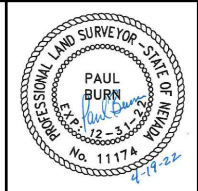
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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

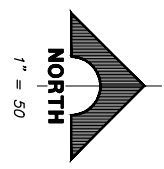
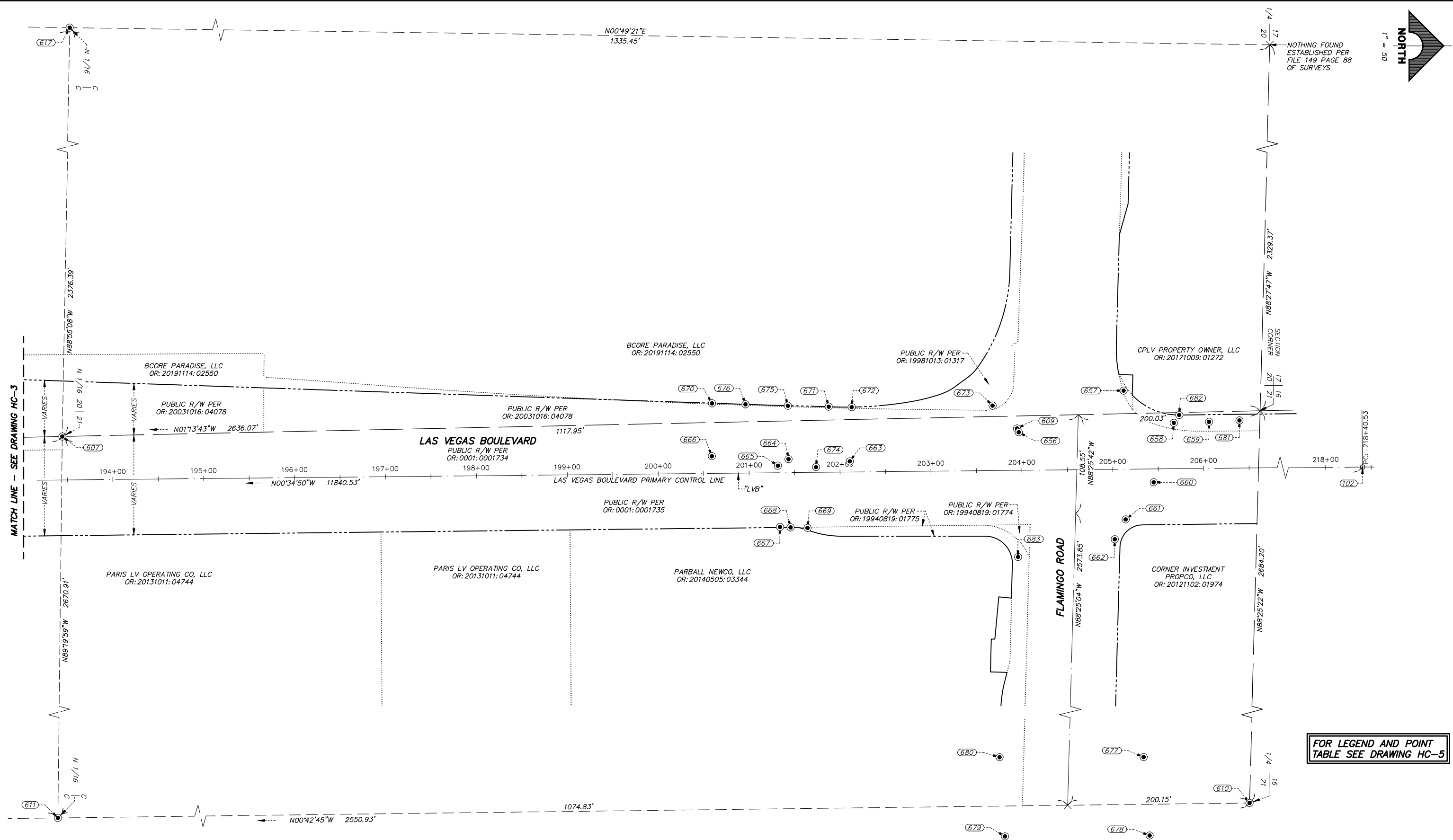


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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-3
VERT: NONE	SHT. 7 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

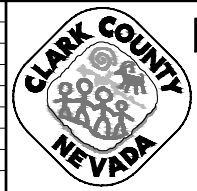
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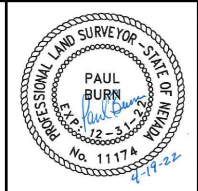
NOTHING FOUND
ESTABLISHED PER
FILE 149 PAGE 88
OF SURVEYS

FOR LEGEND AND POINT
TABLE SEE DRAWING HC-5

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-4
VERT: NONE	SHT. 8 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
215	2121.91	744838.15	77623.85	FND_3.5IN BC LVB 24X PLS 17829
216	2121.31	744896.16	77623.44	FND_3.5IN BC LVB 25X PLS 17829
217	2121.18	744908.17	77623.44	FND_3.5IN BC LVB 26X PLS 17829
218	2121.80	744682.18	77624.76	FND_3.5IN BC LVB 19X PLS 17829
219	2121.99	744659.16	77624.92	FND_3.5IN BC LVB 18X PLS 17829
220	2122.46	744635.14	77625.06	FND_3.5IN BC LVB 17X PLS 17829
501	2122.13	744705.44	77490.35	FND_MAG NAIL
503	2121.45	744818.13	77623.97	FND_3.5IN BC LVB 23X PLS 17829
504	2126.23	743451.59	77582.58	FND_2IN BC SC 20-21/29-28 PLS 8421
602	2116.30	745959.04	77526.26	FND 2IN BC 1/4 S20-21 PLS 18982
603	2107.69	745964.24	78855.28	FND 2IN ALCAP 1/2IN ALCAP 1/16 S21 PLS 8421
604	2107.63	745964.48	78855.44	FND BRASS STEM/BRASS STEM
605	2105.54	745965.58	79106.24	FND 2IN BC
606	2091.75	745969.85	80184.58	FND 2IN BC C1/4 S21 PLS 7004
607	2108.08	747276.79	77497.98	FND 2IN ALCAP N1/2IN ALCAP N1/16 S20-21 PLS 5571
608	2107.43	747221.33	77433.07	FND 2IN BC LVB C/2IN BC LVB CC CP 110 PLS 16201
609	2106.96	748327.02	77489.20	FND 2IN BC LVB C/2IN BC LVB CC CP 111 PLS 16201
610	2076.64	748520.58	80152.85	FND 2IN BC 1/4 S16/21 PLS 7004
611	2076.11	747245.70	80168.66	FND 2IN BC N1/16 S21 PLS 10598
612	2099.98	744661.69	80200.92	FND 2IN BC S1/16 S21 PLS 10598
613	2136.46	744691.24	75083.32	FND 1.5IN ALCAP ILL
614	2136.60	744691.23	75084.29	FND REBAR
617	2125.78	747321.63	75121.97	FND 2IN ALCAP ILL
618	2163.53	743370.11	75022.90	FND RM 49.46 PLS 7008
621	2099.87	743353.18	80217.34	FND 3IN BC 1/4 S21/28 PLS 17597
629	2134.86	742071.90	77597.20	FND 2IN ALCAP N1/16 S29-28
630	2127.73	743290.83	77599.51	FND 2IN BRC LVB CC CP107 PLS 5571
631	2126.80	743432.53	77596.54	FND RM 23.67 PLS 8421
632	2126.76	743442.69	77596.42	FND RM 16.48 PLS 8421
633	2126.69	743455.74	77596.30	FND RM 14.34 PLS 8421
634	2126.71	743471.42	77596.22	FND RM 23.96 PLS 8421
636	2126.52	743559.24	77597.72	FND RM 138.00 PLS 17829

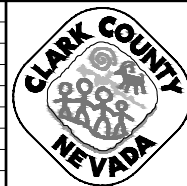
POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
637	2126.19	743641.15	77561.17	FND RM 78.78 PLS 17829
638	2125.62	743716.74	77562.16	FND RM 79.50 PLS 17829
639	2125.27	743784.46	77561.61	FND RM 127.79 PLS 17829
640	2126.35	743642.28	77549.43	FND RM 122.87 PLS 17829
641	2125.96	743714.62	77548.95	FND RM 123.87 PLS 17829
642	2125.75	743778.32	77548.54	FND RM 155.64 PLS 17829
643	2126.62	743579.73	77549.77	FND RM 152.69 PLS 17829
644	2122.90	744144.28	77614.57	SET SCRIBE @ VAULT
645	2125.15	743677.22	77631.19	FND 4IN LVB ROW 001 PLS 4541
646	2122.54	744207.93	77611.40	FND RM 20.30 PLS 17829
647	2122.81	744631.88	77555.86	FND RM 99.0
648	2122.59	744705.30	77554.11	FND NAIL
649	2122.32	744865.41	77546.93	SET SCRIBE
650	2121.78	744694.40	77608.84	FND 2IN BC LVB CC CP108 PLS 13091
651	2121.35	744896.13	77623.41	FND 4IN BC LVB ROW 25 PLS 16201
652	2121.63	744948.04	77623.10	FND 4IN BC LVB ROW 27 PLS 16201
653	2121.69	744998.05	77622.69	FND 4IN BC LVB ROW 29 PLS 17829
654	2121.73	745010.16	77622.82	FND 4IN BC LVB ROW 30 PLS 4541
655	2120.43	745501.83	77537.89	SET SCRIBE
656	2106.97	748328.88	77493.33	FND RM 108.96 PLS 7008
657	2106.81	748444.32	77447.51	FND RM 124.46 PLS 17829
658	2106.05	748499.46	77483.01	FND RM 146.88 PLS 7755
659	2105.78	748538.24	77481.86	FND RM 57.56 PLS PLS 15446
660	2107.47	748477.41	77548.42	FND RM 127.62
661	2106.81	748446.53	77589.23	FND RM 101.58 PLS 17829
662	2105.98	748434.58	77611.04	FND BM 7C11 21NWS
663	2107.98	748143.12	77525.32	FND RM 64.42 PLS 17829
664	2107.86	748075.68	77522.94	FND RM 76.66
665	2108.11	748064.04	77530.12	FND RM 69.25 PLS 17829
666	2107.86	747991.38	77519.69	FND RM 67.99 PLS 17829
667	2106.71	748066.32	77597.56	FND RM 11.63 PLS 17829
668	2106.75	748077.95	77597.97	FND 4IN BC LVB ROW 057 PLS 4541?

POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
669	2106.75	748096.56	77598.64	FND RM 18.62 PLS 17829
670	2106.90	747991.48	77461.50	FND RM 36.84 PLS 17829
671	2106.80	748119.92	77465.17	FND 4IN BC LVB ROW 058 PLS 4541
672	2106.75	748145.14	77465.69	FND RM 25.20 PLS 17829
673	2106.88	748300.14	77464.00	SET TEMPORARY WORKING POINT
674	2107.96	748105.94	77531.67	FND RM 71.89 PLS 17829
675	2106.85	748074.94	77464.15	FND RM 46.66
676	2106.90	748028.33	77462.57	FND 4IN BC LVB ROW PLS 4541
677	2076.63	748404.01	80102.44	FND RM 98.98 PLS 7008
678	2076.76	748410.60	80188.59	FND RM 96.04 PLS 7008
679	2076.56	748251.44	80189.60	FND RM 77.32 PLS 7008
680	2076.77	748245.57	80102.55	FND RM 91.81 PLS 7008
681	2106.56	748571.72	77480.21	FND RM 25.03 PLS 7008
682	2106.19	748505.50	77474.29	FND 4IN BC LVB ROW 006 PLS 1005
683	2104.96	748328.14	77630.55	FND RM 79.59 PLS 7008
684	2110.25	746917.18	77499.65	FND RM 117.28
685	2110.94	746867.37	77499.72	FND RM 92.5
686	2111.92	746809.71	77499.90	FND RM 93.62
687	2111.92	746809.71	77499.90	FND RM 93.62
688	2112.73	746761.29	77500.09	FND RM 118.67 PLS 17829
689	2109.04	747013.85	77500.54	FND RM 134.48
690	2108.94	746898.50	77411.42	FND 4IN BC LVB ROW 46 PLS 17829
691	2109.44	746840.08	77411.34	FND 4IN BC LVB ROW 44 PLS 17829
692	2111.49	746810.30	77401.99	FND RM 92.81 PLS ILL
693	2108.98	746897.74	77410.58	FND NAIL N TAG
694	2168.91	743395.95	75065.59	FND 2IN BC 1/4 S20/29 PLS 7008
695	2108.40	747023.39	77610.03	FND 4IN BC LVB ROW 48X PLS17829
696	2108.56	746898.13	77431.87	FND NAIL
697	2107.79	746964.87	77431.56	FND NAIL & TAG
698	2107.44	747206.49	77434.47	FND SCRIBE
699	2125.07	743675.97	77431.26	FND SCRIBE
1500	2128.07	743258.27	77594.44	FND BM 8C11 28NW/BM 8C11 28NWS

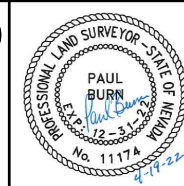
"LVB" ALIGNMENT CONTROL			
POINT #	NORTHING	EASTING	STATION
101	737932.87	77640.51	100+00.00
102	749772.79	77520.54	218+40.53

LEGEND

-----	RIGHT-OF-WAY	FND	FOUND
-----	PRIMARY CONTROL LINE	4IN	4 INCH
-----	SECTION LINE	3.5IN	3.5 INCH
-----	QUARTER SECTION LINE	3.25IN	3.25 INCH
-----	16TH SECTION LINE	3IN	3 INCH
-----	RIGHT-OF-WAY DOCUMENT LIMIT	2IN	2 INCH
-----	STREET CENTERLINE	1.5IN	1.5 INCH
-----	RIGHT-OF-WAY EASEMENT PER OR: 20070111:03775	RM	REFERENCE MONUMENT
-----	EXISTING LOT LINE/RIGHT-OF-WAY LIMITS LINE	PLS	PROFESSIONAL LAND SURVEYOR
(606)	POINT NUMBER	BC LVB	BRASS CAP LAS VEGAS BLVD
●	FOUND MONUMENTATION AS SHOWN AND DESCRIBED IN POINT TABLE	BLVD	BOULEVARD
×	CALCULATED POINT	ALCAP	ALUMINUM CAP
R/W	RIGHT-OF-WAY	BC	BRASS CAP
OR:	OFFICIAL RECORD	ROW	RIGHT-OF-WAY
		BM	BENCHMARK



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: WM
 DESIGNED BY: WM CHECKED BY: CW
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
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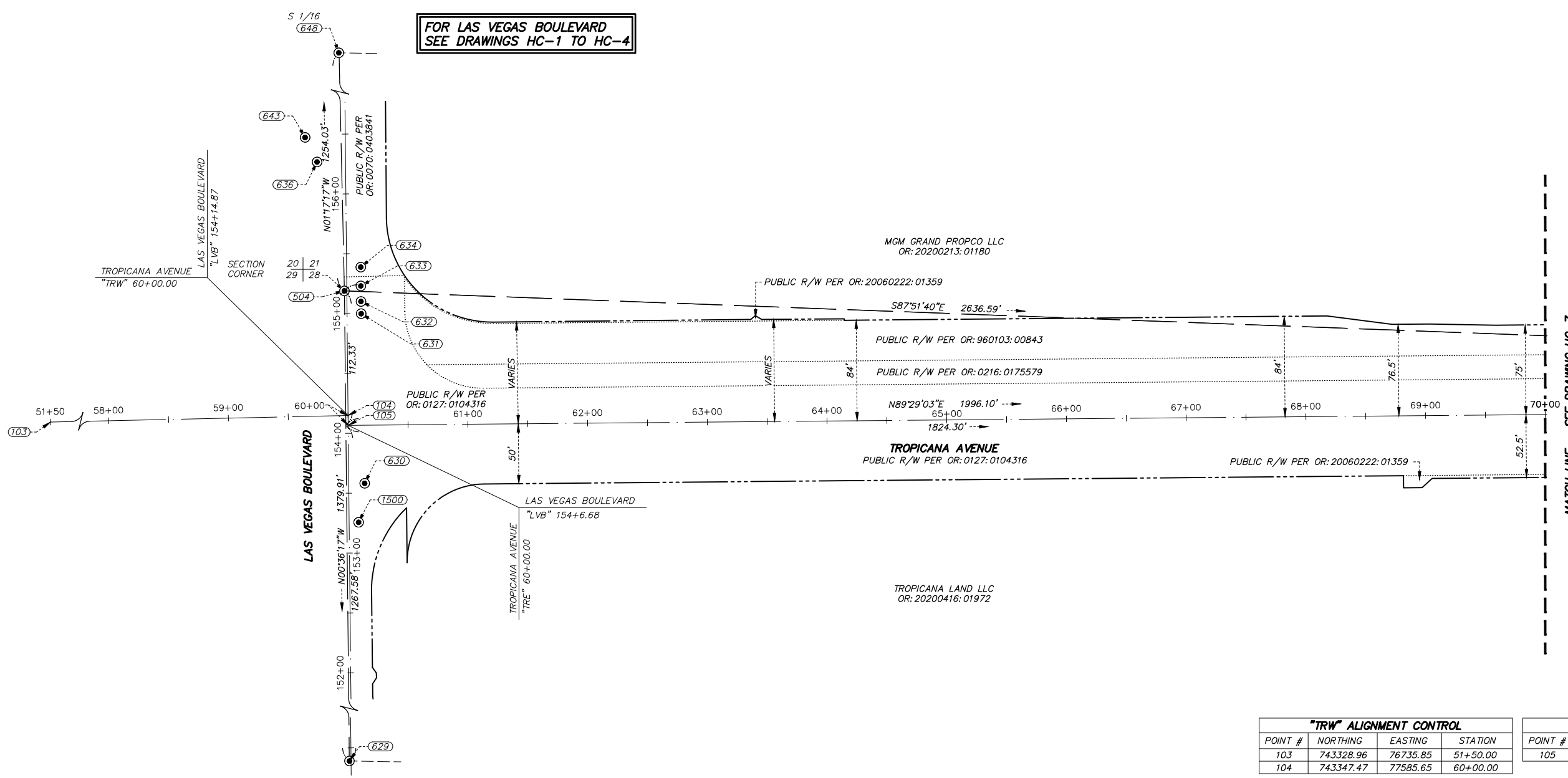
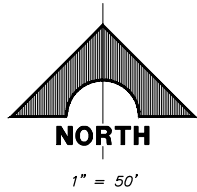
SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-5
VERT: NONE	SHT. 9 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_03A_HC Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

**FOR LAS VEGAS BOULEVARD
SEE DRAWINGS HC-1 TO HC-4**



"TRW" ALIGNMENT CONTROL			
POINT #	NORTHING	EASTING	STATION
103	743328.96	76735.85	51+50.00
104	743347.47	77585.65	60+00.00

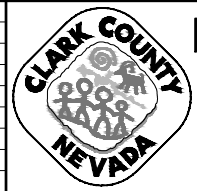
"TRE" ALIGNMENT CONTROL			
POINT #	NORTHING	EASTING	STATION
105	743339.28	77585.73	60+00.00

LEGEND

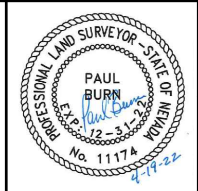
	RIGHT-OF-WAY
	PRIMARY CONTROL LINE
	SECTION LINE
	QUARTER SECTION LINE
	16TH SECTION LINE
	RIGHT-OF-WAY DOCUMENT LIMIT
	STREET CENTERLINE
	RIGHT-OF-WAY EASEMENT PER OR: 20070111:03775
	EXISTING LOT LINE/RIGHT-OF-WAY LIMITS LINE
	POINT NUMBER
	FOUND MONUMENTATION AS SHOWN AND DESCRIBED IN POINT TABLE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

POINT TABLE					
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	
504	743451.59	77582.58	2126.23'	2" BRASS CAP STAMPED "PLS 8421"	
629	742071.90	77597.20	2134.86'	2" ALUMINUM CAP STAMPED "N 1/16 29 28 2005"	
630	743290.83	77599.51	2127.73'	2" BRASS CAP STAMPED "PLS 5571"	
631	743432.53	77596.54	2126.80'	REFERENCE MONUMENT STAMPED "23.67" "PLS 8421"	
632	743442.69	77596.42	2126.76'	REFERENCE MONUMENT STAMPED "16.48" "PLS 8421"	
633	743455.74	77596.30	2126.69'	REFERENCE MONUMENT STAMPED "14.34" "PLS 8421"	
634	743471.42	77596.22	2126.71'	REFERENCE MONUMENT STAMPED "23.96" "PLS 8421"	
636	743559.24	77559.72	2126.52'	REFERENCE MONUMENT STAMPED "138.00" "PLS 17829"	
643	743579.73	77549.77	2126.62'	REFERENCE MONUMENT STAMPED "152.69" "PLS 17829"	
648	744705.30	77554.11	2122.59'	NAIL	
1500	743258.27	77594.44	2128.07'	BENCHMARK BC11 28NW/BM 8C11 28NWS	

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

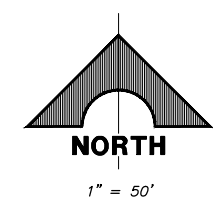
GCV
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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-6
VERT: NONE	SHT. 10 OF 169
FIELD BOOK	L-2304

10/03/2024 11:12:39

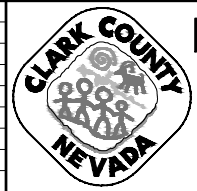
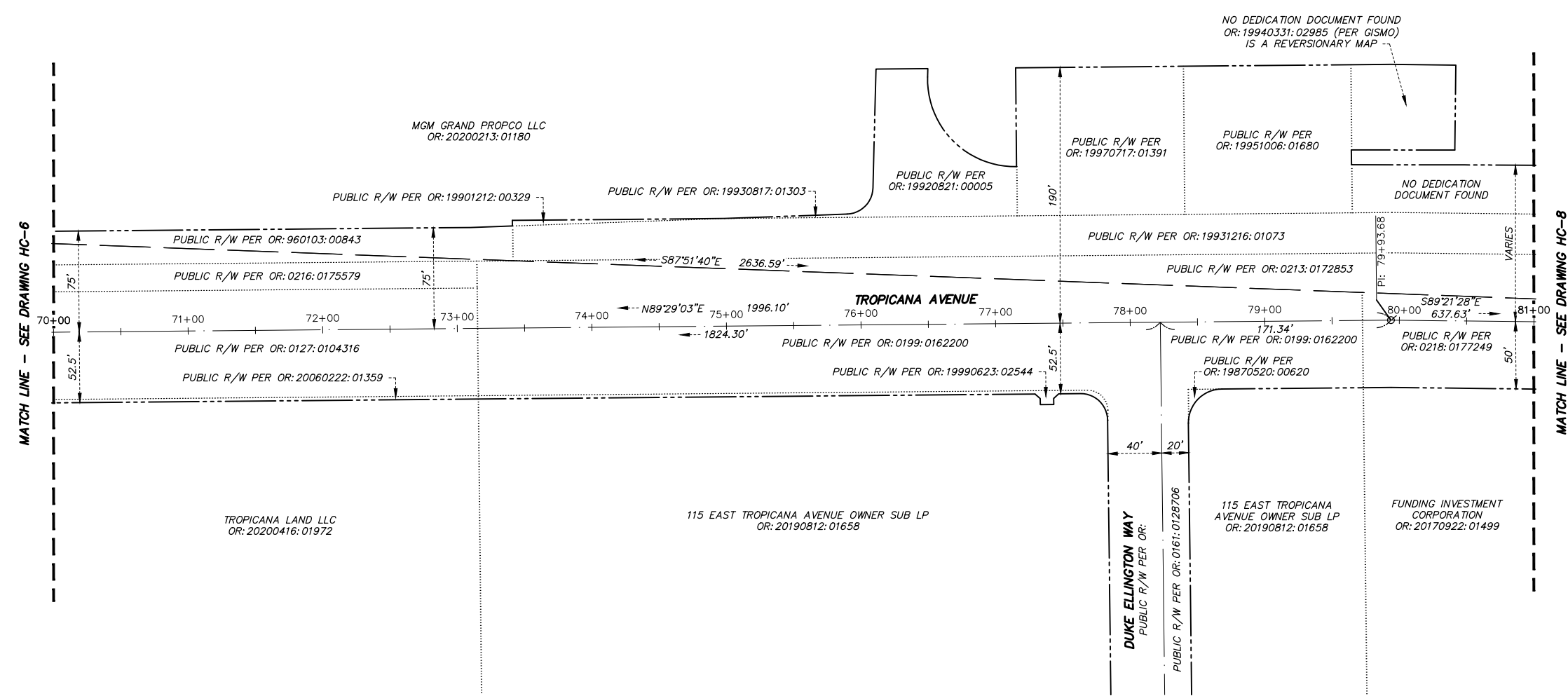
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

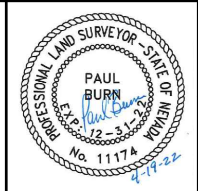


LEGEND

	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/RIGHT-OF-WAY LIMITS LINE
	POINT NUMBER
	FOUND MONUMENTATION AS SHOWN AND DESCRIBED IN POINT TABLE
	CALCULATED POINT
	RIGHT-OF-WAY
	OFFICIAL RECORD



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

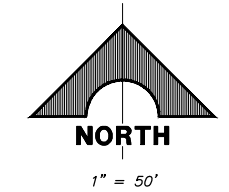
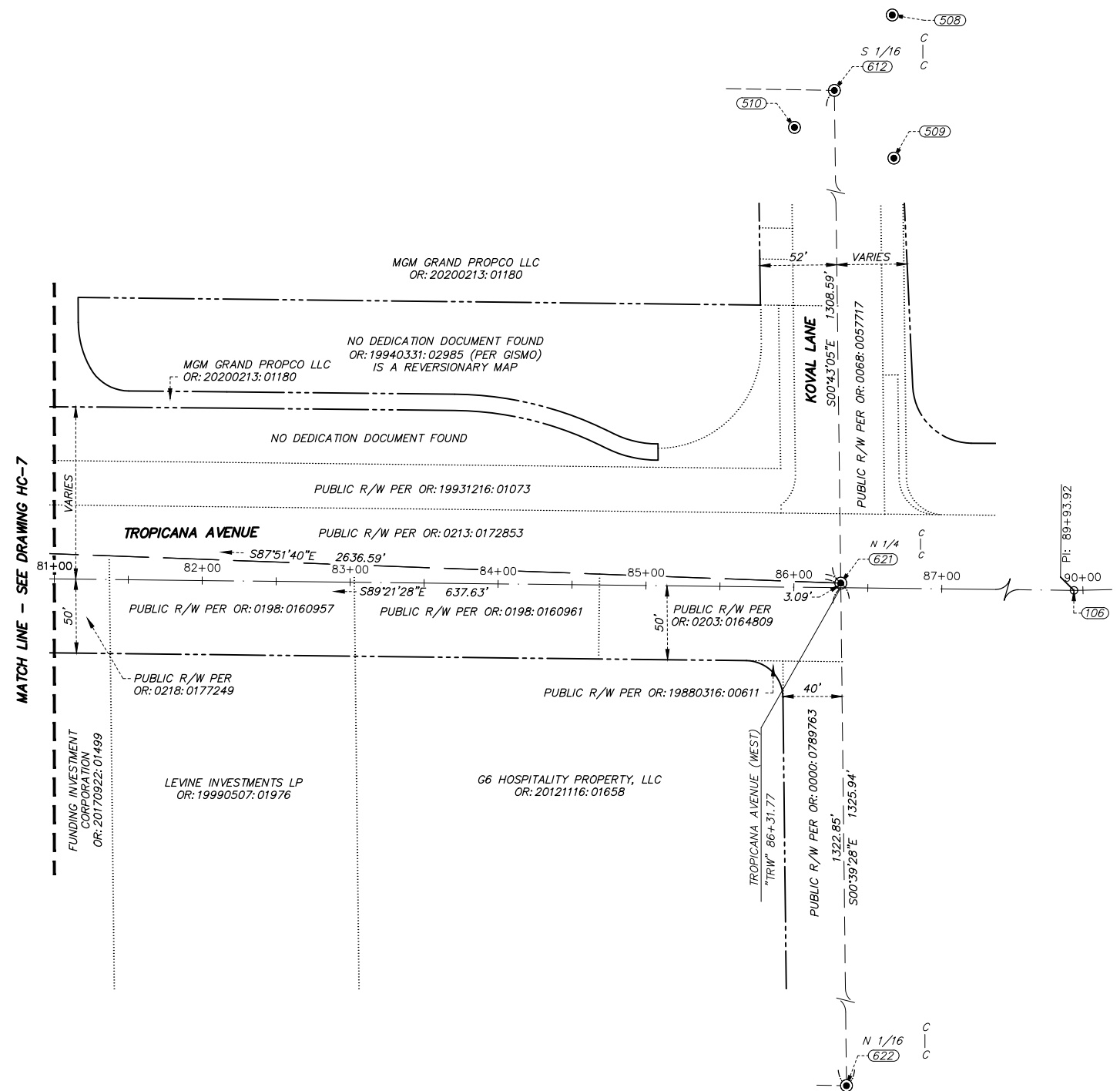
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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-7
VERT: NONE	SHT. 11 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_03A_HC Sheets.dwg



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/RIGHT-OF-WAY LIMITS LINE
(606)	POINT NUMBER
●	FOUND MONUMENTATION AS SHOWN AND DESCRIBED IN POINT TABLE
X	CALCULATED POINT
R/W	RIGHT-OF-WAY
OR:	OFFICIAL RECORD

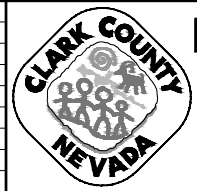
POINT TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
508	2100.13	744712.58	80240.07	REFERENCE MONUMENT STAMPED "64.25" "PLS 7004"
509	2099.86	744615.92	80241.18	REFERENCE MONUMENT STAMPED "60.98" "PLS 7004"
510	2100.24	744636.67	80173.99	REFERENCE MONUMENT STAMPED "36.81" "PLS 7004"
612	2099.98	744661.69	80200.92	2" BRASS CAP STAMPED "PLS 10598"
621	0.00	743353.18	80217.34	3" BRASS CAP STAMPED "PLS 17597"
622	2106.97	742027.32	80232.55	3" BRASS CAP STAMPED "PLS 8895"

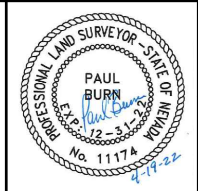
"TRW" ALIGNMENT CONTROL

POINT #	NORTHING	EASTING	STATION
106	743346.02	80579.51	89+93.92

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
HORIZONTAL CONTROL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

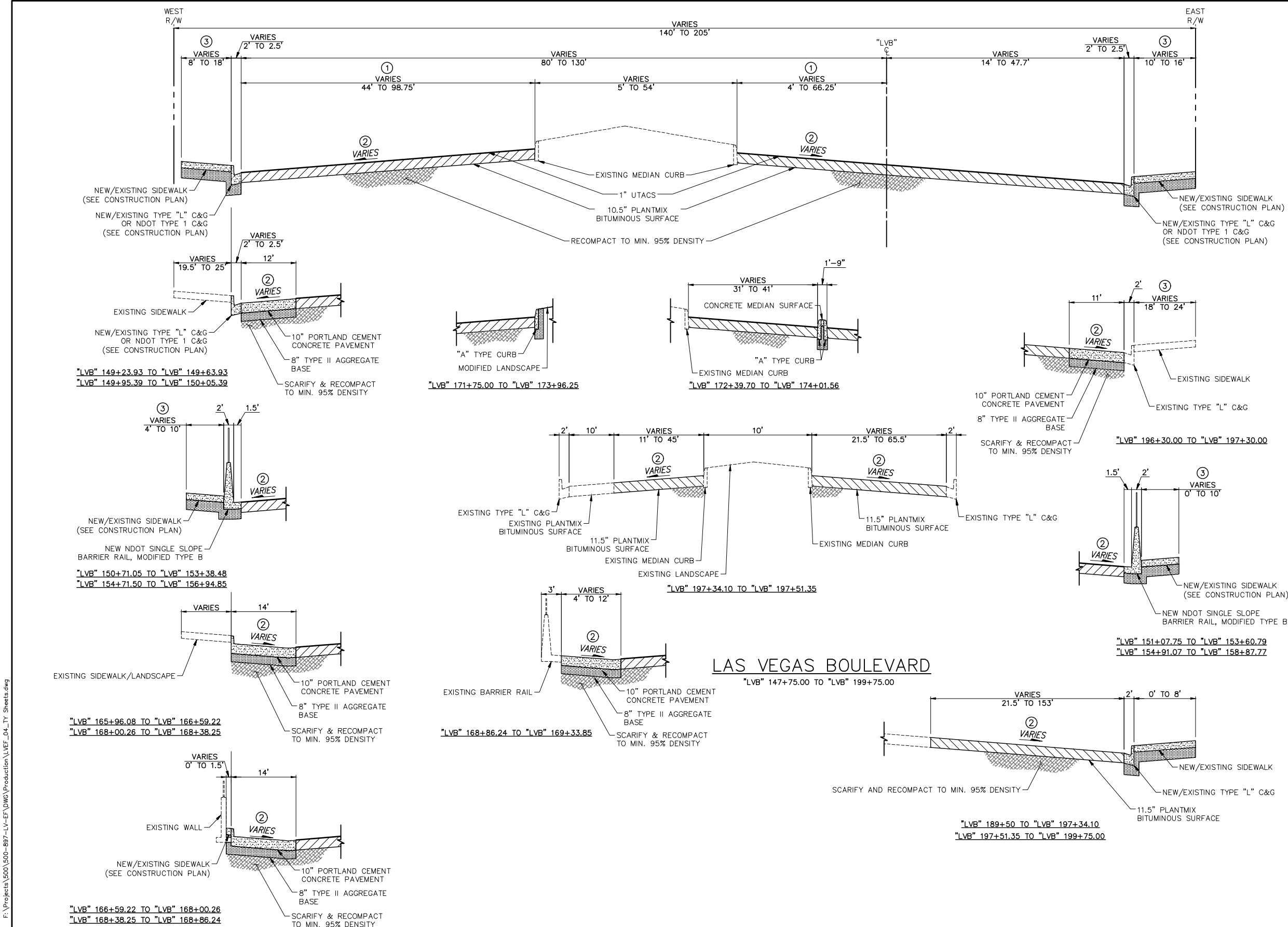


PROJECT No: 500-897-LV-EF DRAWN BY: BAM
 DESIGNED BY: BAM CHECKED BY: CW
 APPROVED BY: _____

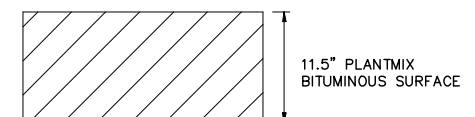
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SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-8
VERT: NONE	SHT. 12 OF 169
FIELD BOOK	L-2304

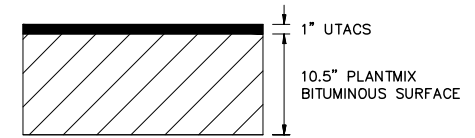
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



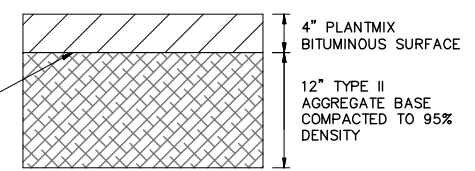
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
 - ② CROSS SLOPE VARIES - MATCH EXISTING.
 - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



PAVEMENT SECTION
"LVB" 189+50.00 TO "LVB" 199+75.00



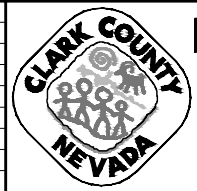
PAVEMENT SECTION
LAS VEGAS BLVD & TROPICANA AVE



PAVEMENT SECTION
ON-SITE

LAS VEGAS BOULEVARD
"LVB" 147+75.00 TO "LVB" 199+75.00

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

TYPICAL SECTIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



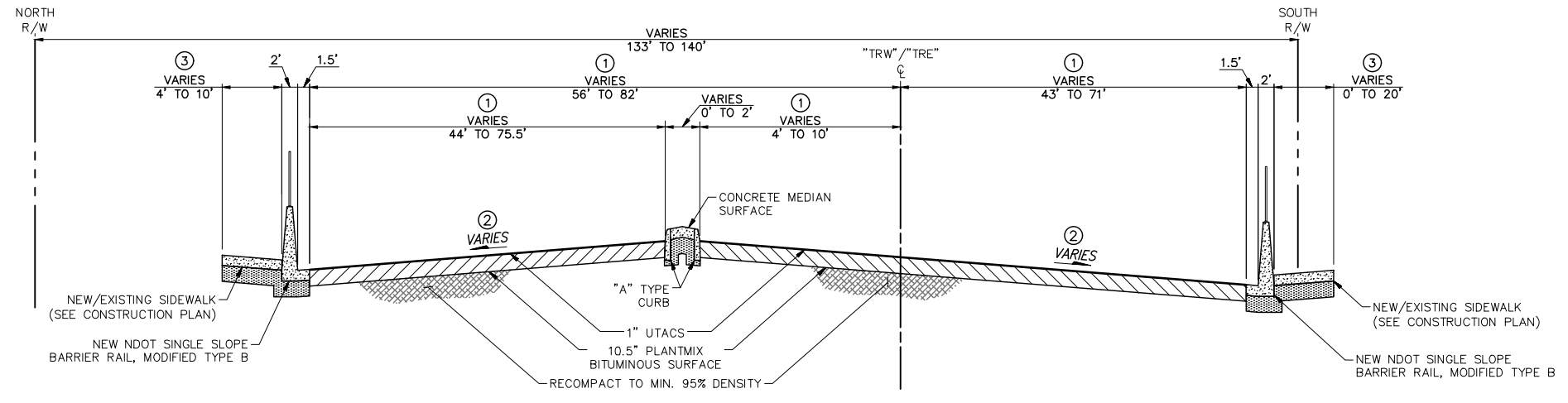
PROJECT No: 500-897-LV-EF DRAWN BY: JDS
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
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SCALE	DRAWING NO.
HORIZ: NONE	TY-1
VERT: NONE	SHT. 13 OF 169
FIELD BOOK	L-2304

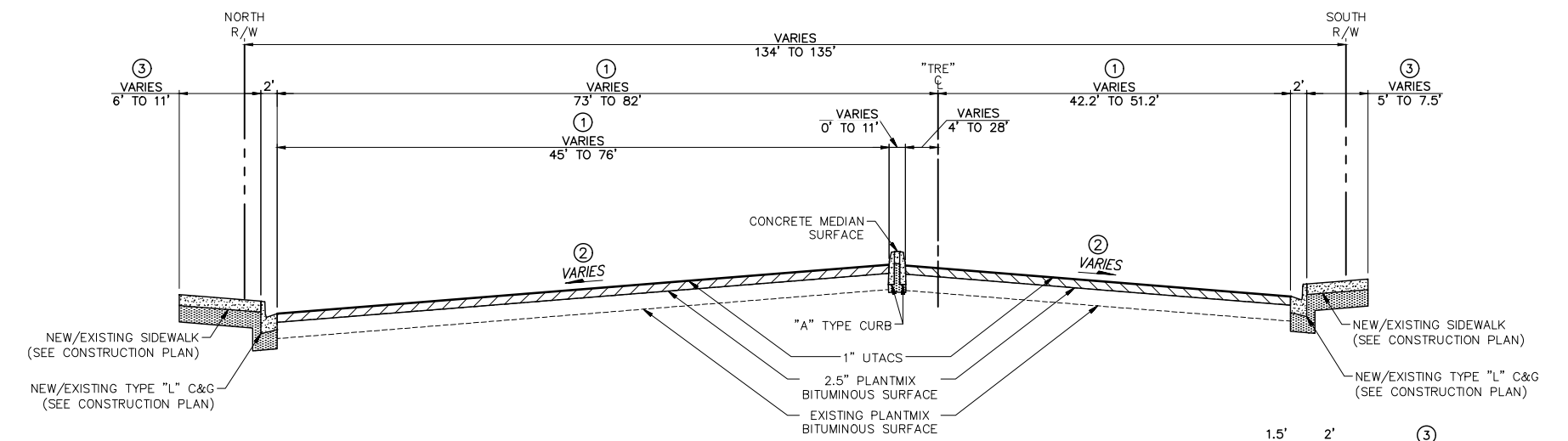
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

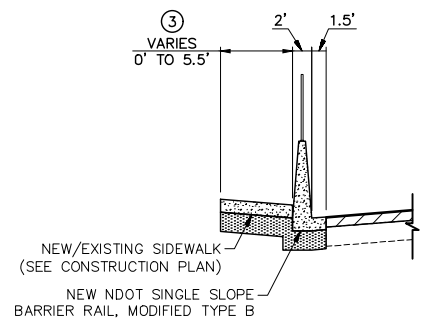
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
 - ② CROSS SLOPE VARIES - MATCH EXISTING.
 - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



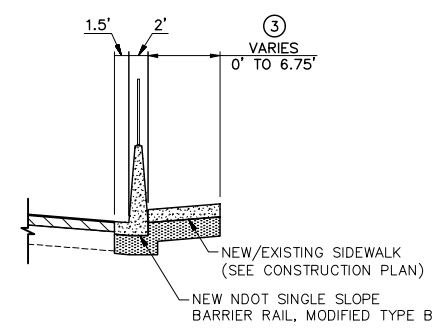
TROPICANA AVENUE
 "TRW" 57+50.00 TO "TRW" 60+00.00
 "TRE" 60+00.00 TO "TRE" 61+40.00



TROPICANA AVENUE
 "TRE" 61+40.00 TO "TRE" 75+65.30



"TRE" 61+40.00 TO "TRE" 63+81.98



"TRE" 61+40.00 TO "TRE" 63+97.30

F:\Projects\500\500-897-LV-EF-DWG\Production\VEF_04_Ty_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



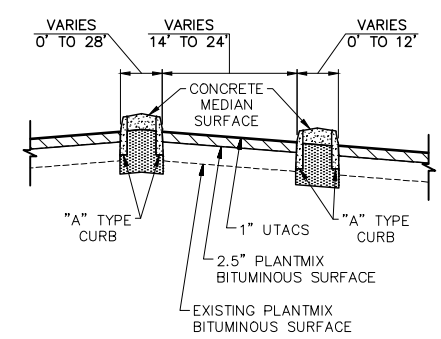
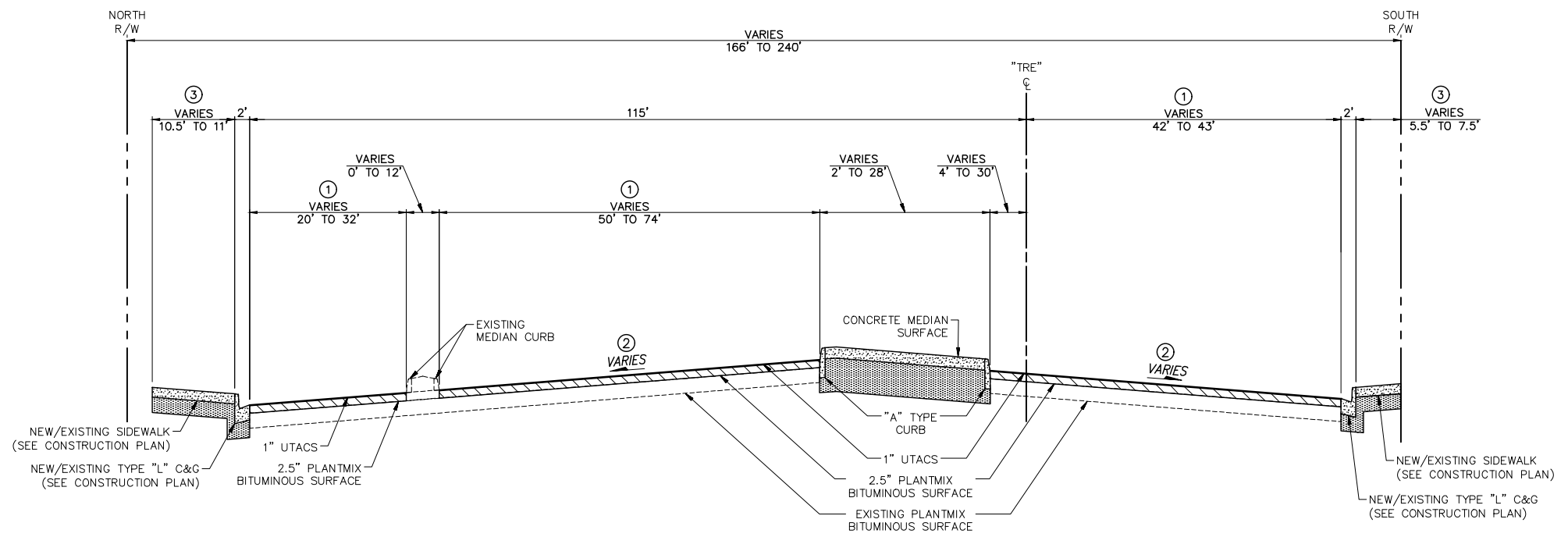
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TYPICAL SECTIONS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TJS
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
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SCALE	DRAWING NO.
HORIZ: NONE	TY-2
VERT: NONE	SHT. 14 OF 169
FIELD BOOK	L-2304

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



"TRE" 78+05.98 TO "TRE" 80+19.39

TROPICANA AVENUE
"TRE" 75+65.30 TO "TRE" 83+00.00

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

REV. NO.	DATE	DESCRIPTION	APPROVED



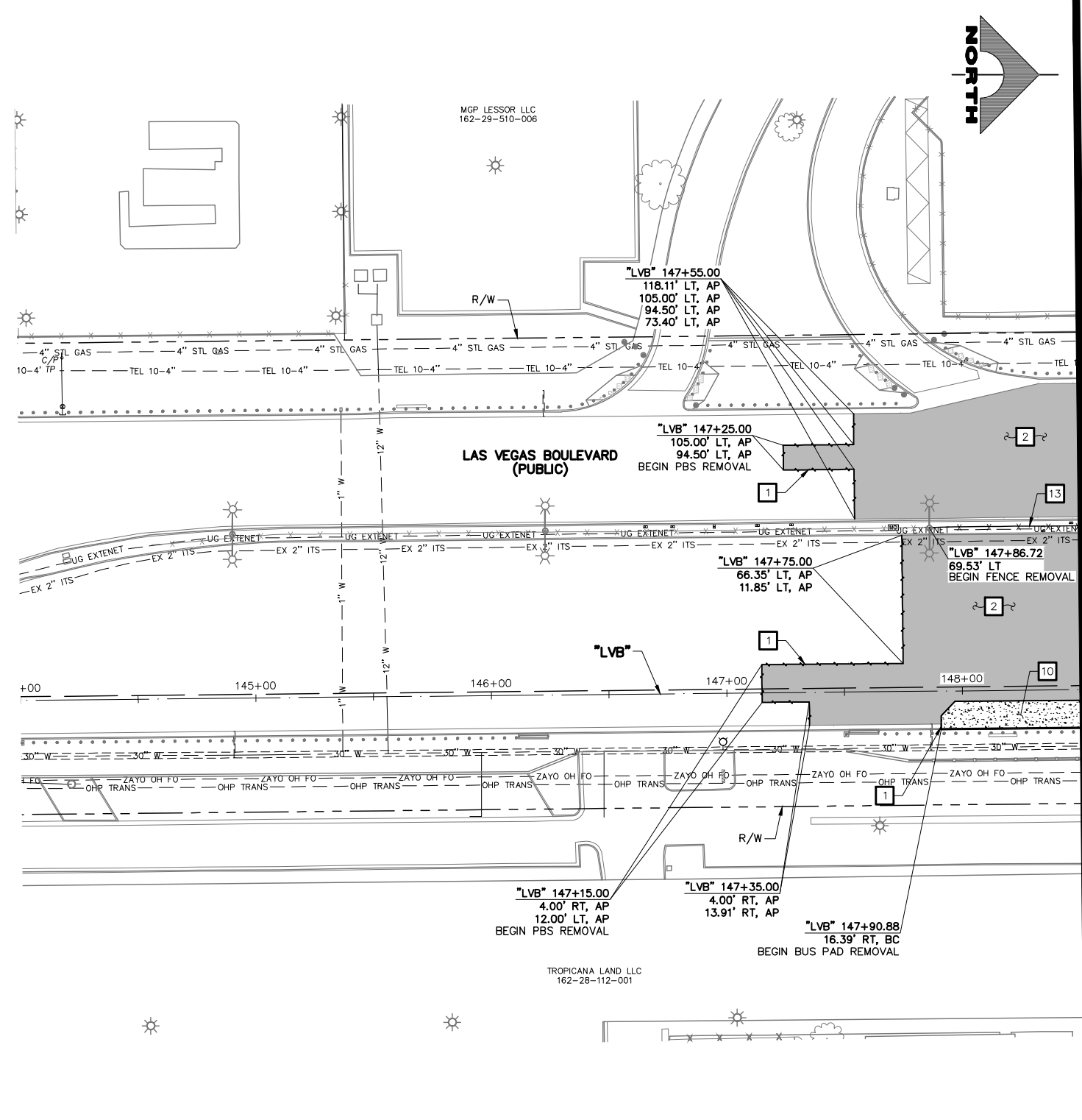
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TYPICAL SECTIONS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TJS
 DESIGNED BY: DSH CHECKED BY: WLF
 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-3
VERT: NONE	SHT. 15 OF 169
FIELD BOOK	L-2304

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SEE DRAWING NO. R-2 MATCHLINE "LVB" 148+50.00

- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
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 - 36 REMOVE ELEVATOR TELEPHONE LINE CONDUCTORS FROM BARRIER RAIL FROM/TO NEAREST SPLICE BOXES
 - P PROTECT-IN-PLACE

LEGEND

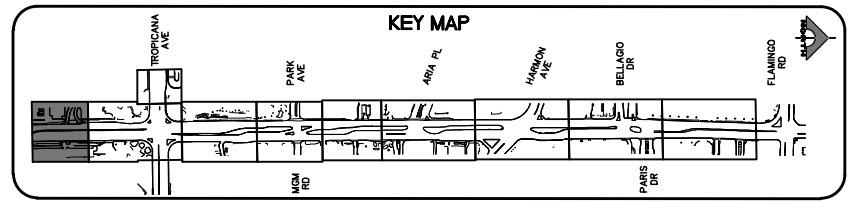
- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION/PAVER REMOVAL
- COLD MILL (3.5-INCH DEPTH)



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
14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

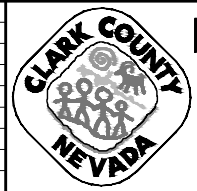


CALL BEFORE YOU DIG
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
1-702-227-2929

FAST
Call before you UnderGround.
1-702-901-8400
PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 144+00.00 TO "LVB" 148+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



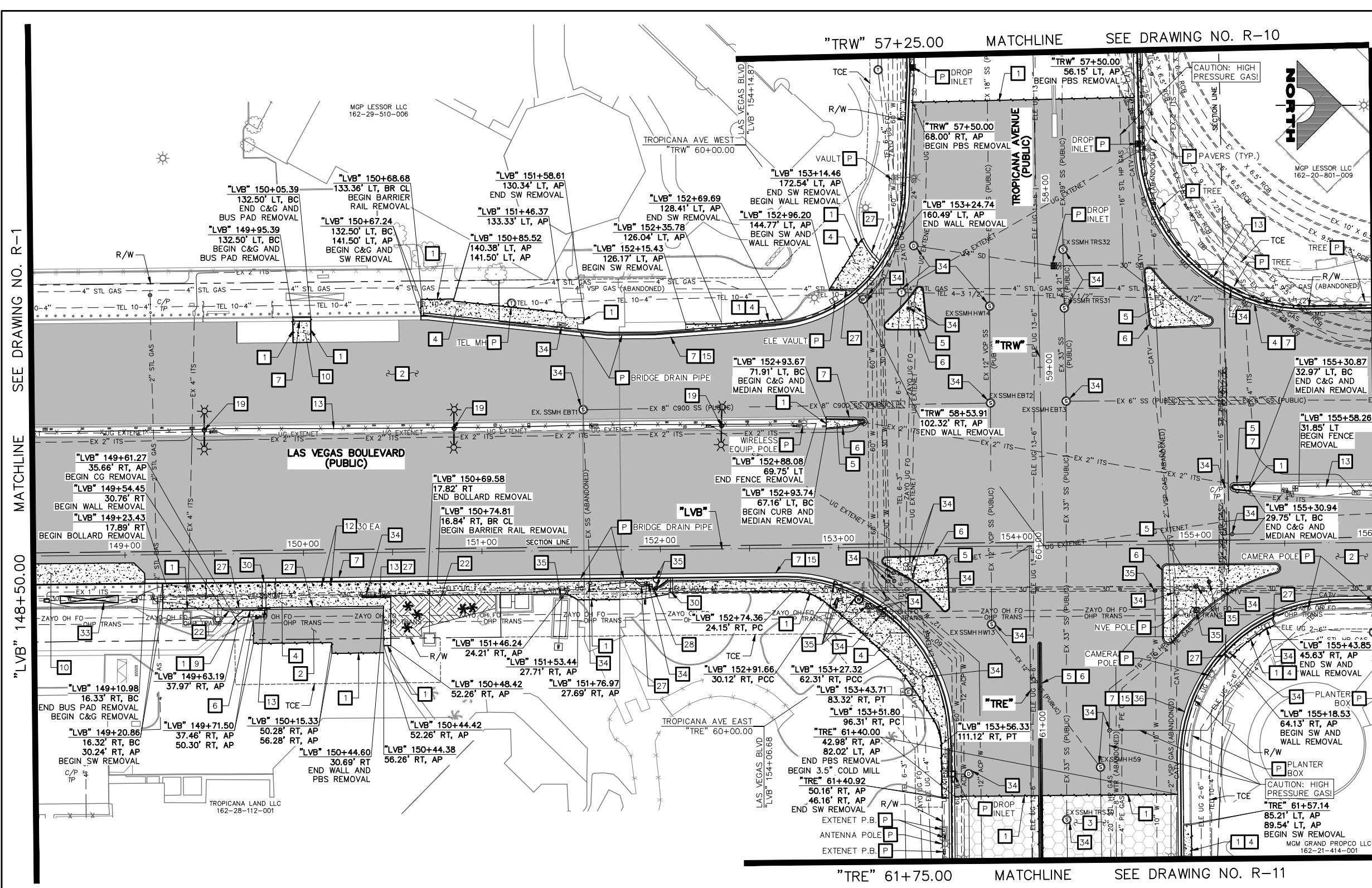
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY:

GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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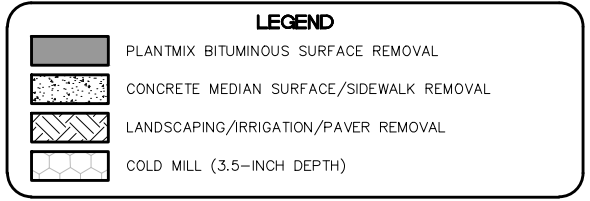
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DRAWING NO. **R-1**
SHT. 16 OF 169
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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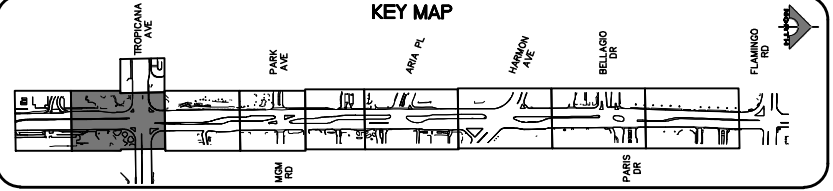
CAUTION: HIGH PRESSURE GAS!!!
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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 - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 148+50.00 TO "LVB" 156+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



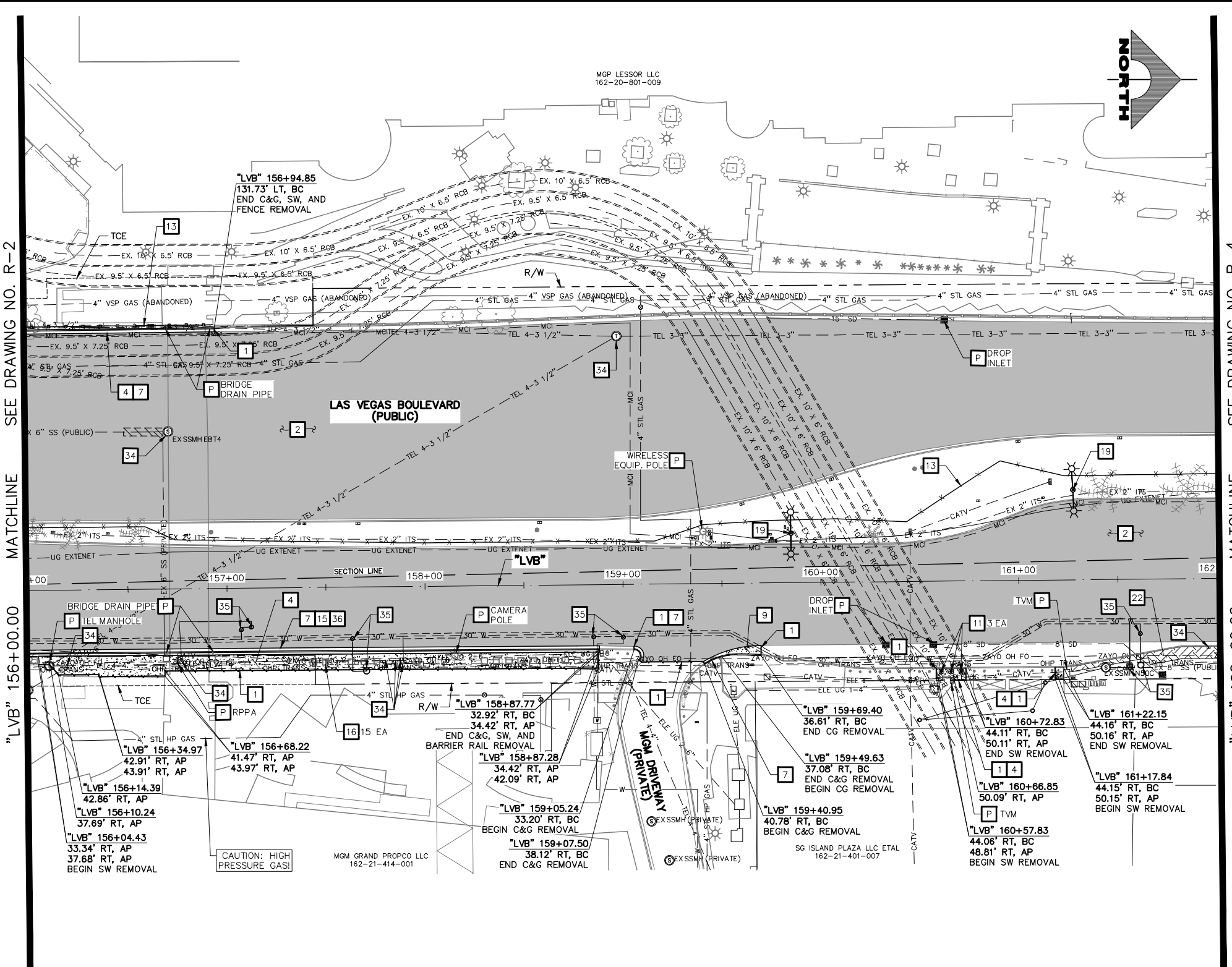
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY:

GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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gcvengineering.com

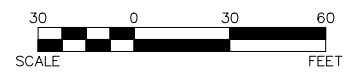
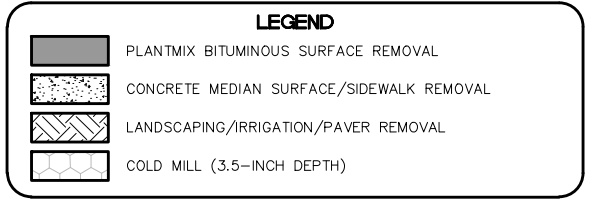
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L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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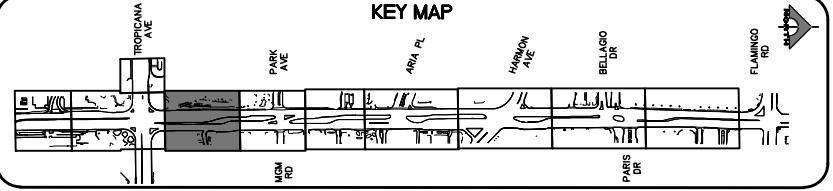
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FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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

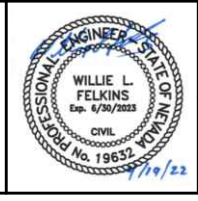


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 156+00.00 TO "LVB" 162+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

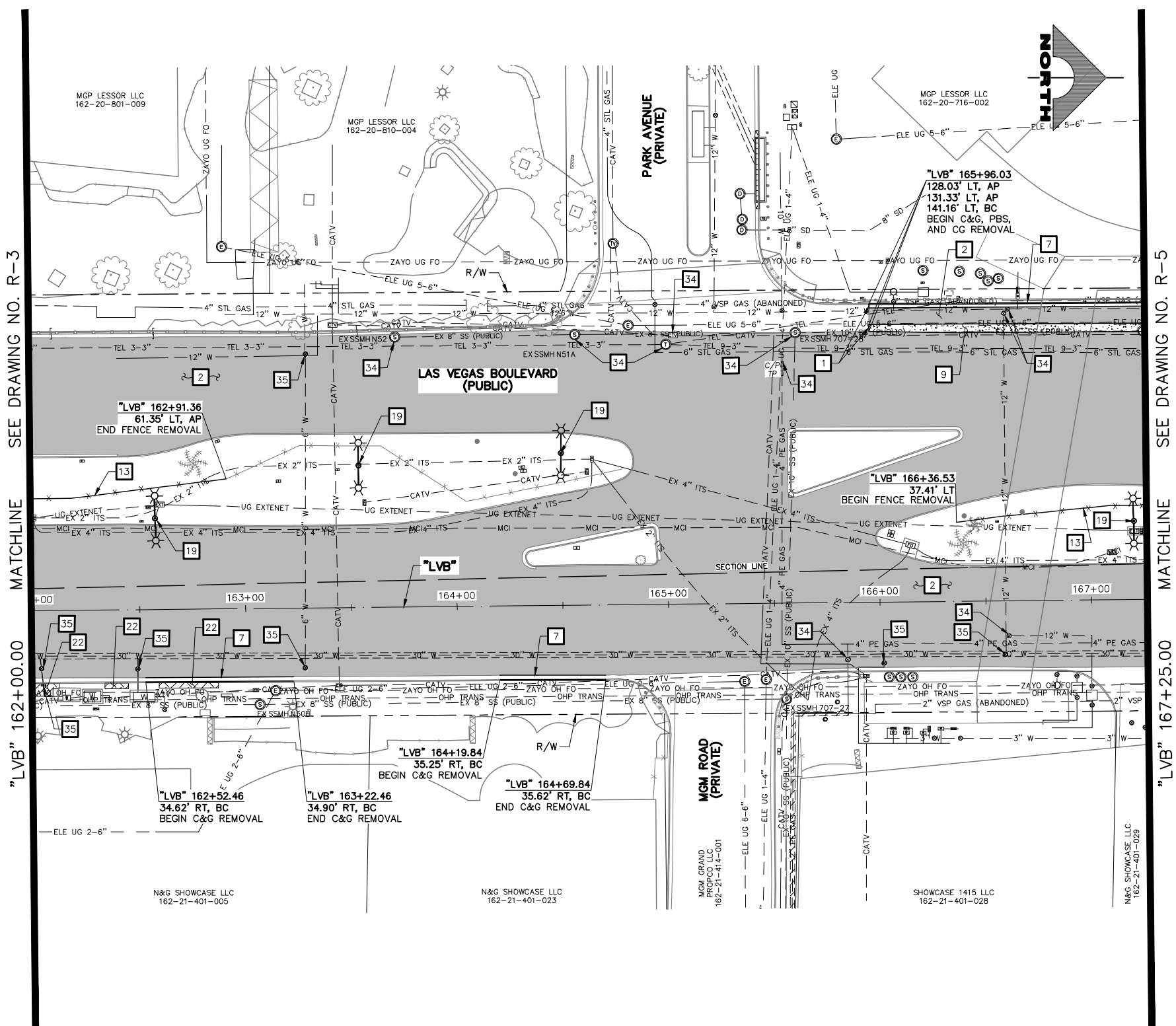
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FIELD BOOK
DRAWING NO.
R-3
SHT. 18 OF 169
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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14



MATCHLINE SEE DRAWING NO. R-3

MATCHLINE SEE DRAWING NO. R-5

"LVB" 162+00.00

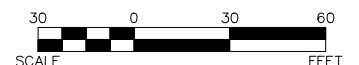
"LVB" 167+25.00

REMOVAL NOTES

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- P PROTECT-IN-PLACE

LEGEND

- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION/PAVER REMOVAL
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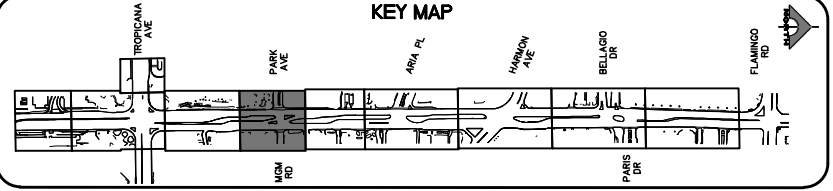
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APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
 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.



SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881
 14 DAYS PRIOR TO CONSTRUCTION.

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
REMOVAL PLAN
 "LVB" 162+00.00 TO "LVB" 167+25.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



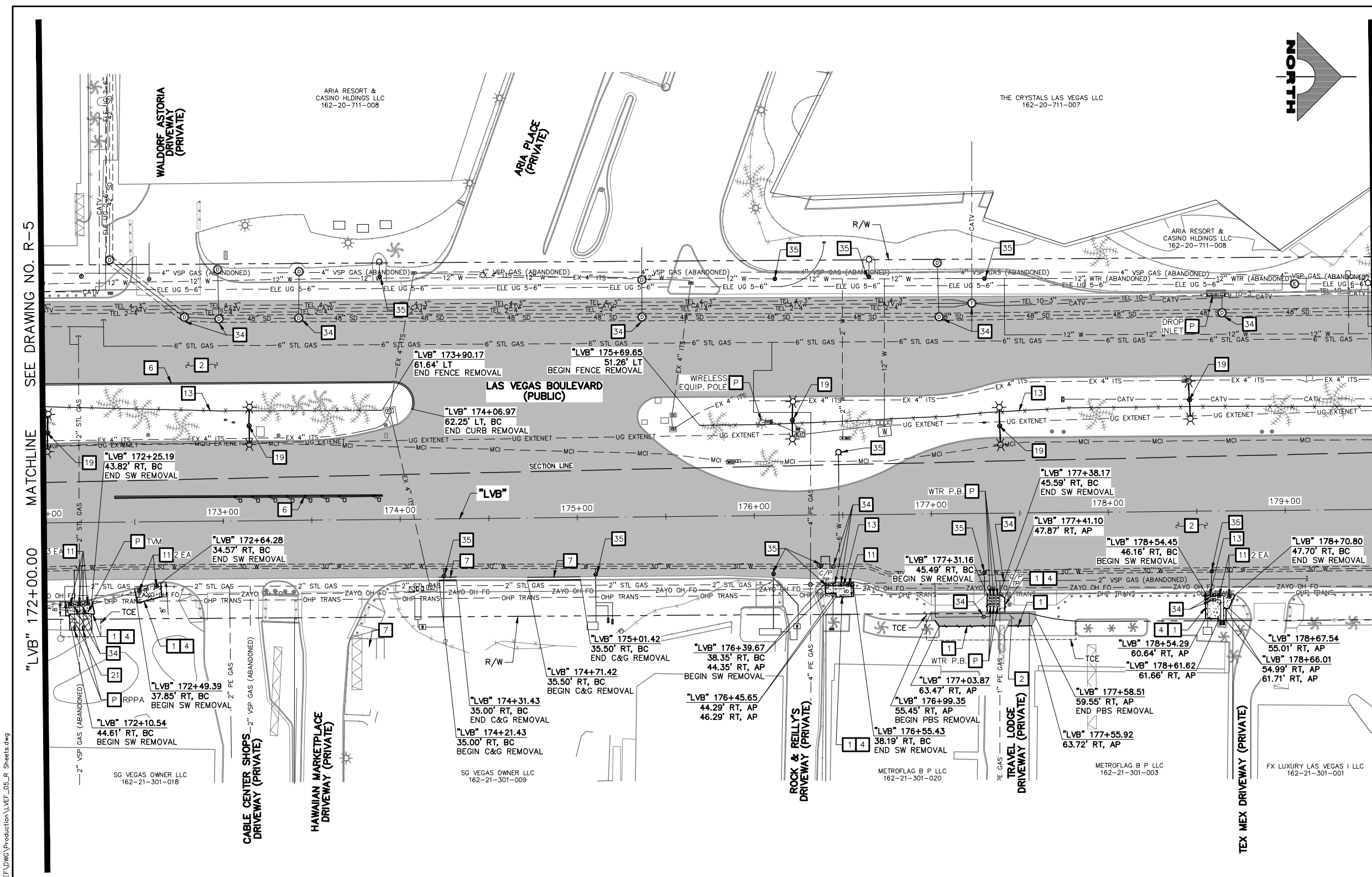
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY:

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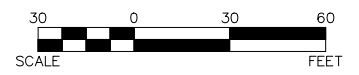
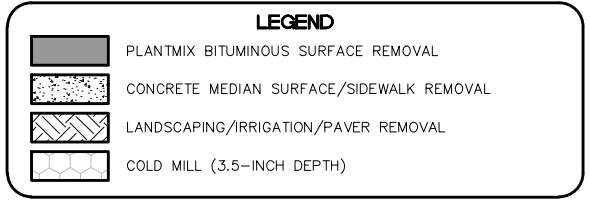
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DRAWING NO. **R-4**
 SHT. 19 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



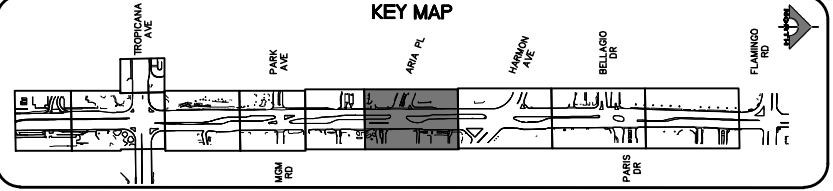
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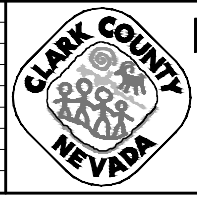
APPROVED FOR CONSTRUCTION
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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
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 14 DAYS PRIOR TO CONSTRUCTION.

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 172+00.00 TO "LVB" 179+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

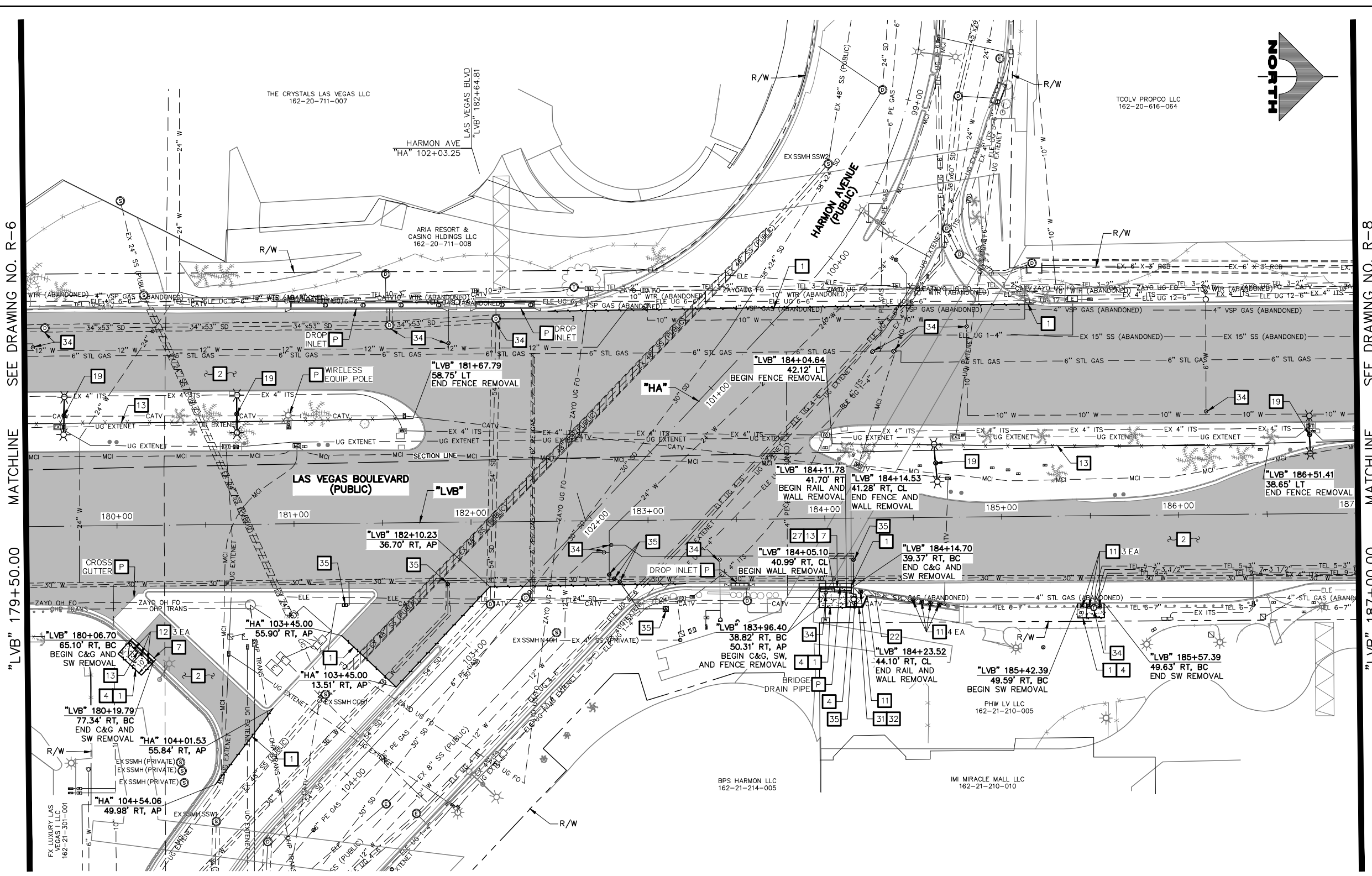
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DRAWING NO. **R-6**
 SHT. 21 OF 169
 L-2304

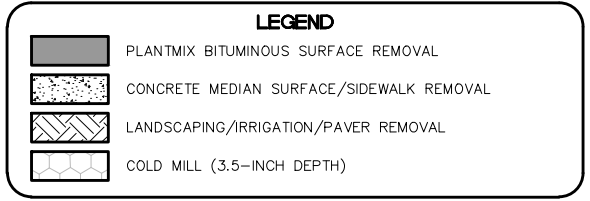
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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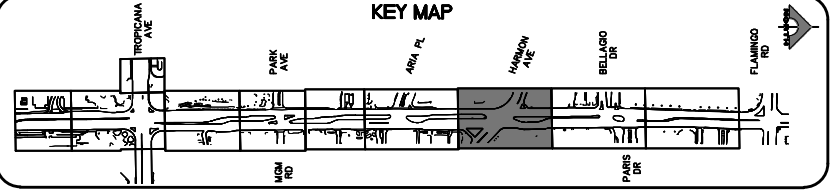
- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
 - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
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- P PROTECT-IN-PLACE



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
 DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 1390722 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.983
 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.



SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881
 14 DAYS PRIOR TO CONSTRUCTION.

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 179+50.00 TO "LVB" 187+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

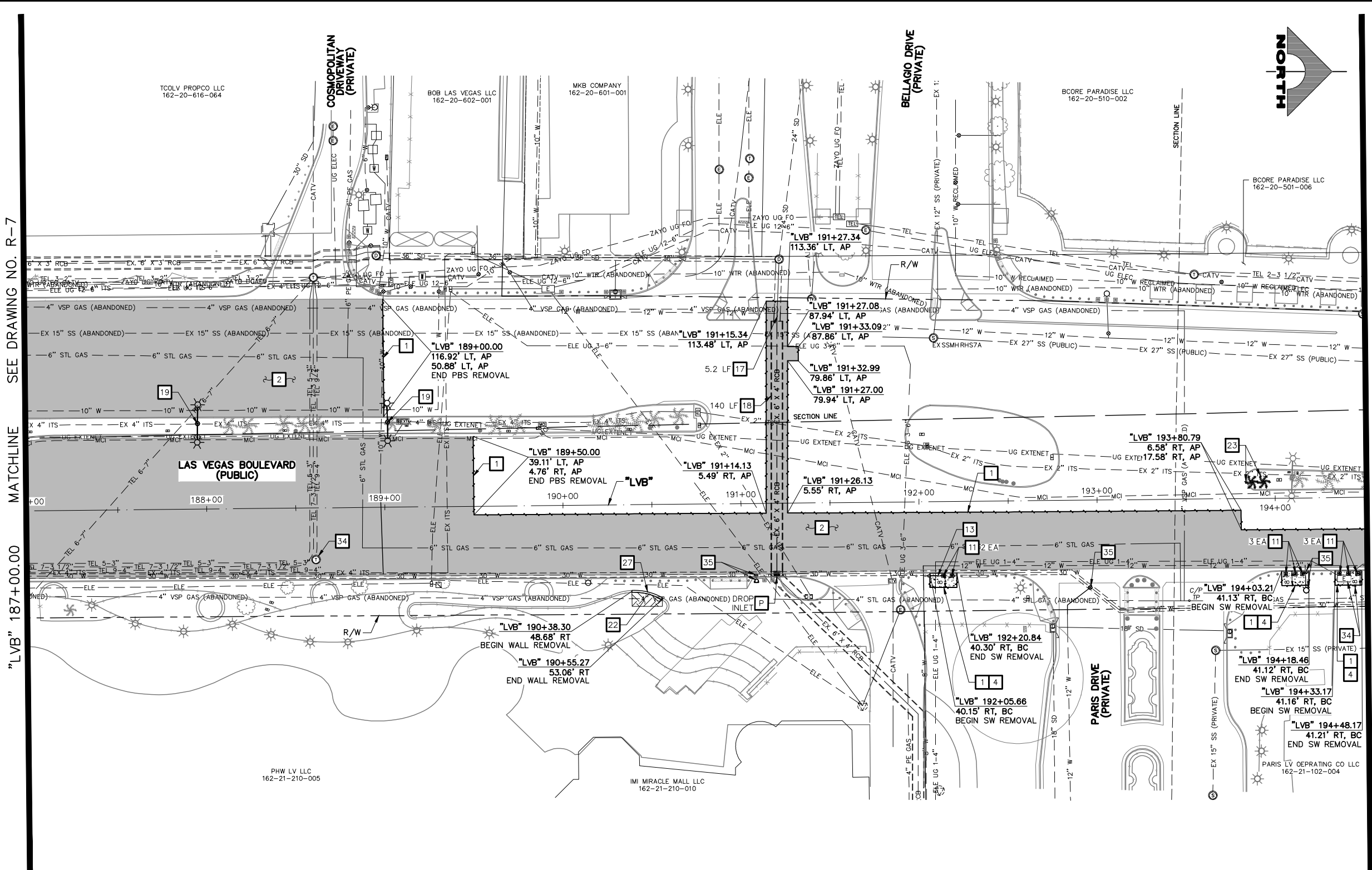
1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **R-7**
 SHT. 22 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

04-19-22 10:40:16 F:\Projects\500-897-LV-EF-DWG\Production\LVF_05_R_Sheets.dwg



REMOVAL NOTES

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- P PROTECT-IN-PLACE

LEGEND

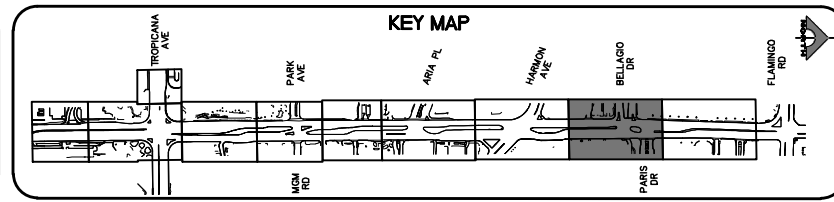
- PLANTMIX BITUMINOUS SURFACE REMOVAL
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- LANDSCAPING/IRRIGATION/PAVER REMOVAL
- COLD MILL (3.5-INCH DEPTH)

SCALE: 30 0 30 60 FEET

SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881
14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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CALL BEFORE YOU DIG
AUGUST 1996
1-702-227-2929

FAST
Call before you UnderGround.
1-702-901-8400
PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 187+00.00 TO "LVB" 194+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: **GCV**
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

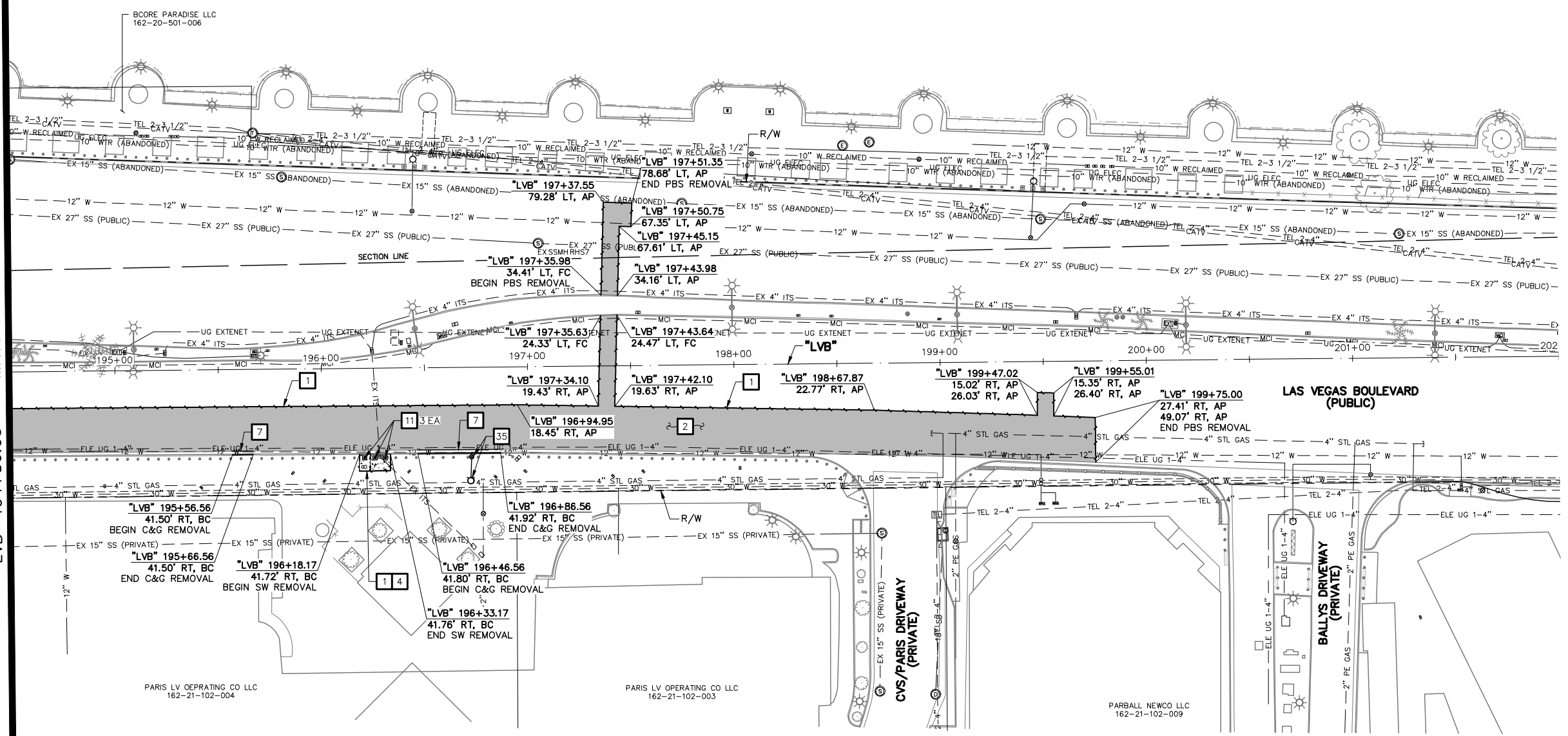
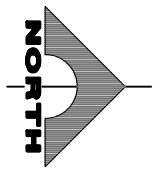
DRAWING NO. **R-8** SHT. 23 OF 169 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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SEE DRAWING NO. R-8
 MATCHLINE
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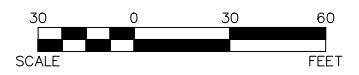
BCORE PARADISE LLC
162-20-510-002



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LEGEND

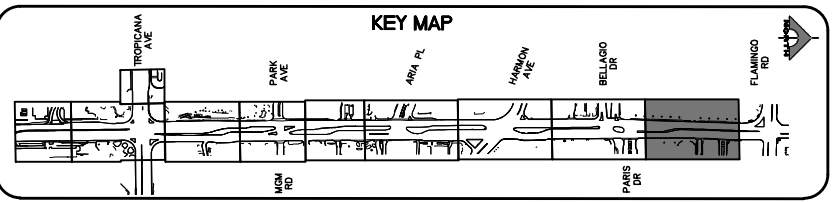
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PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

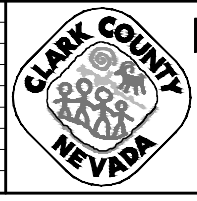
APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.983
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SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881
 14 DAYS PRIOR TO CONSTRUCTION.

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"LVB" 194+50.00 TO "LVB" 202+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

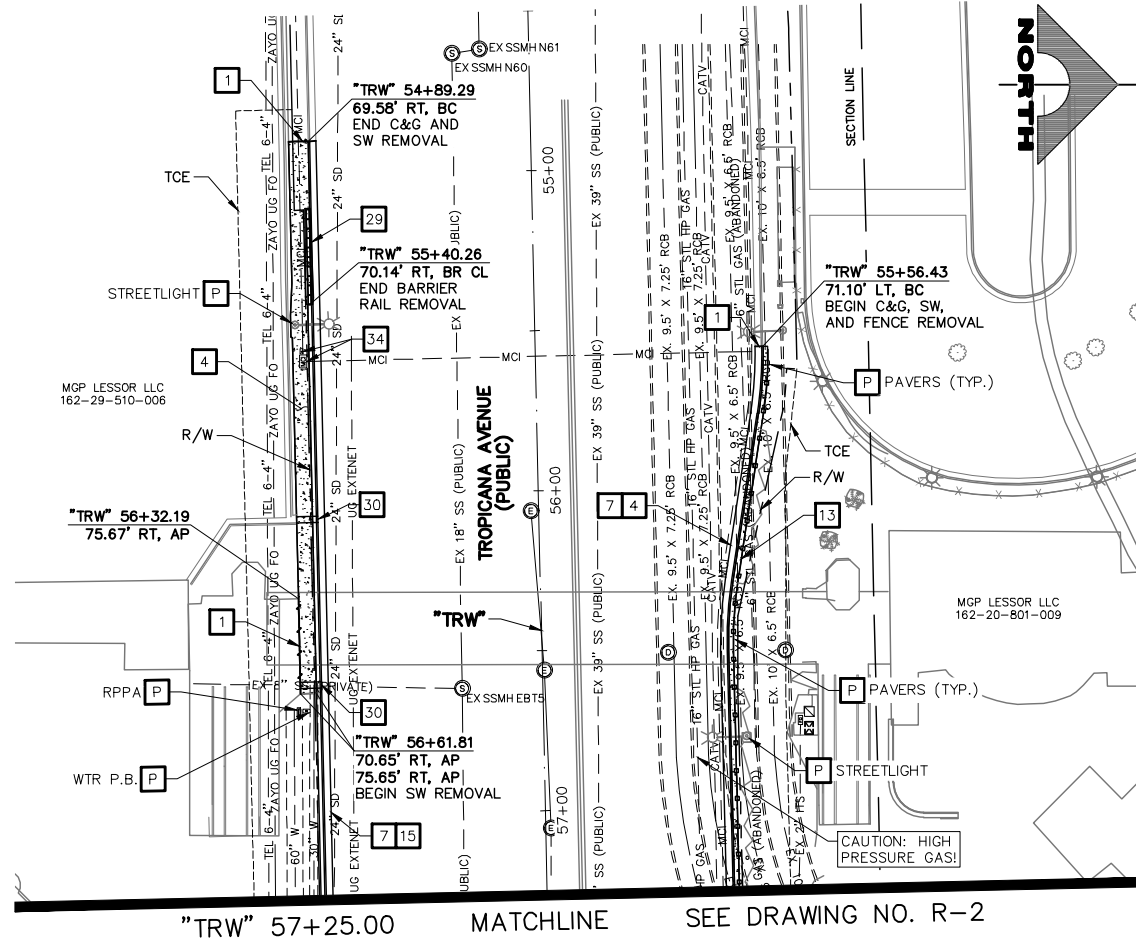


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK: _____
 DRAWING NO. **R-9**
 SH. 24 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

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LEGEND

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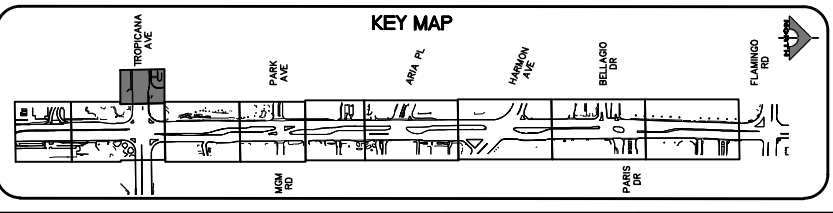
CAUTION: HIGH PRESSURE GAS!!!
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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.

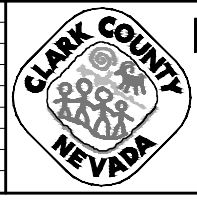


CALL BEFORE YOU DO OVERHEAD
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!
1-702-227-2929

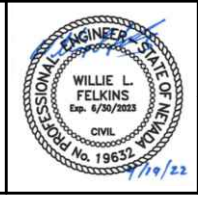
FAST Call before you UnderGround.
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PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
REMOVAL PLAN
"TRW" 54+50.00 TO "TRW" 57+25.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

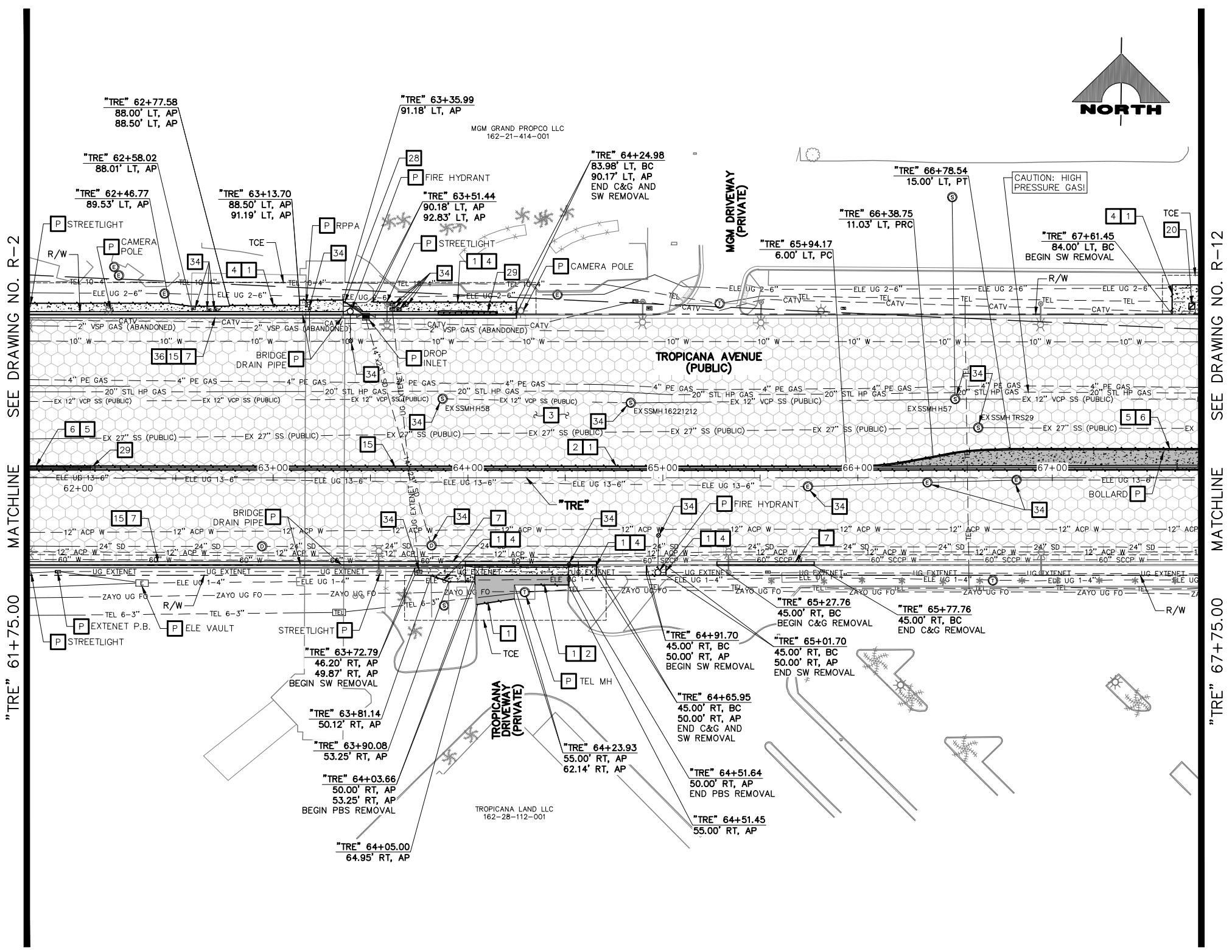


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY:
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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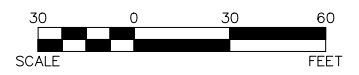
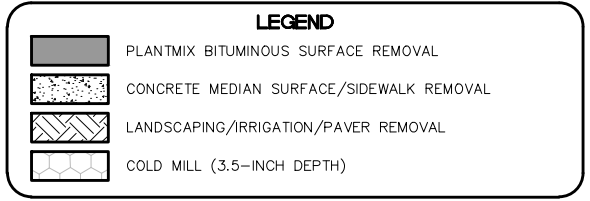
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DRAWING NO. R-10
SHT. 25 OF 169
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

04-19-22 10:41:13 F:\Projects\500-897-LV-EF\DWG\Production\VEF_05A_R_Sheets.dwg



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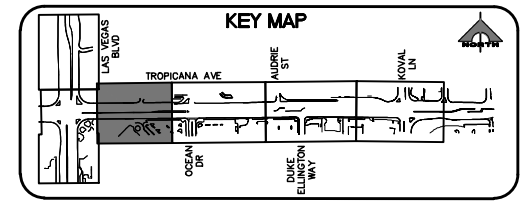
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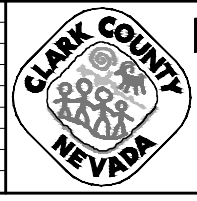
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APPROVED FOR CONSTRUCTION
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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

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

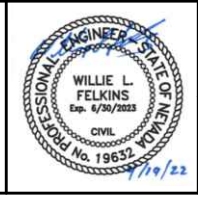


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"TRE" 61+75.00 TO "TRE" 67+75.00

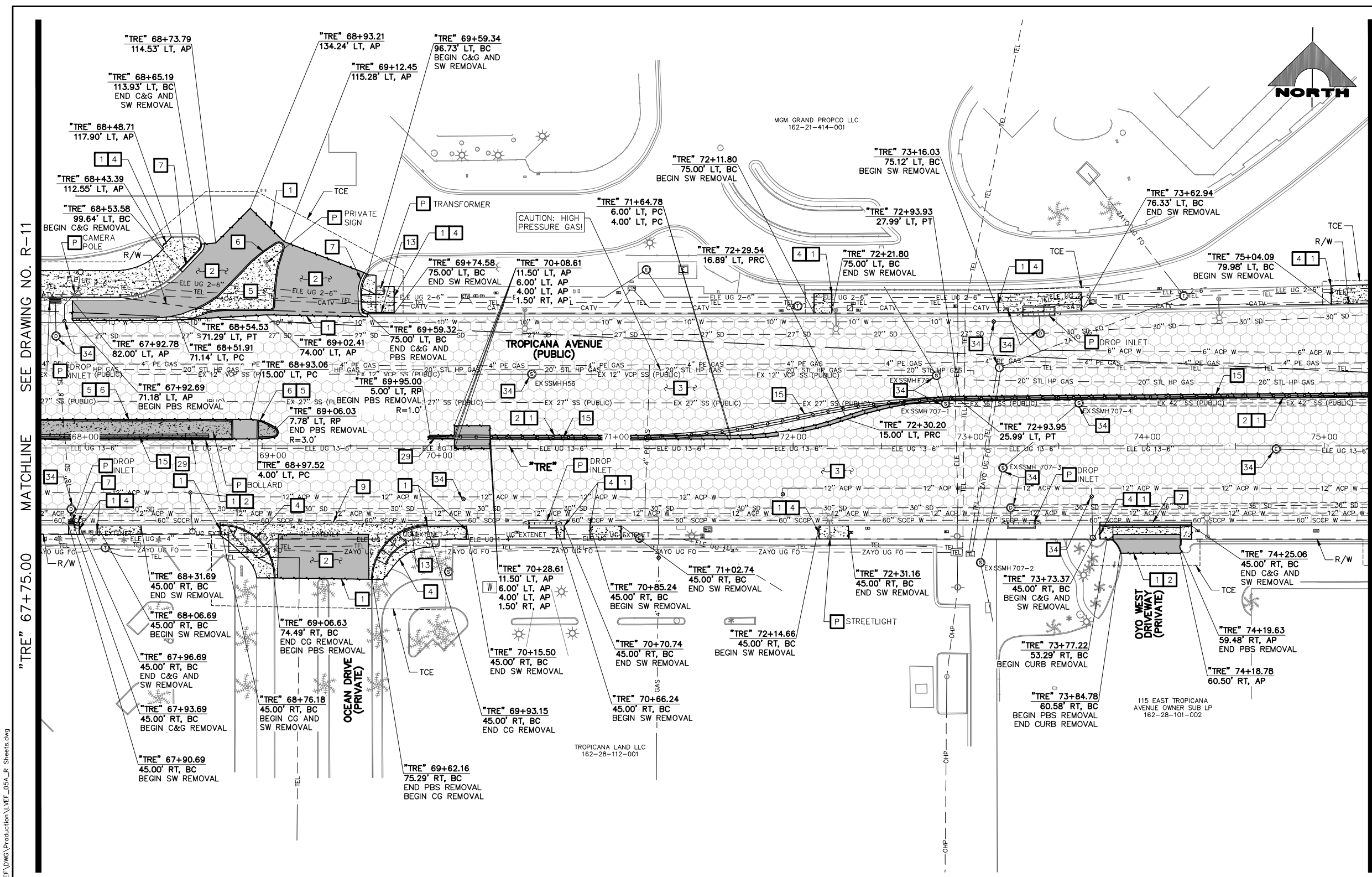
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



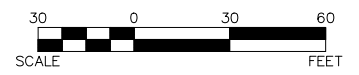
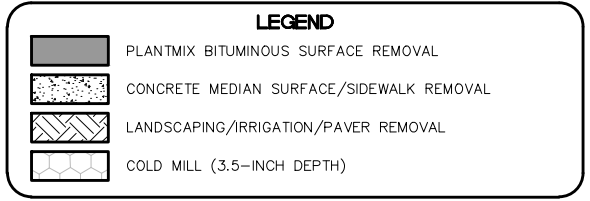
PROJECT No: 500-897-LV-EF DRAWN BY: JAP
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK: _____
 DRAWING NO. **R-11**
 SH. 26 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
 - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
 - 3 COLD MILL (3.5-INCH DEPTH)
 - 4 REMOVE CONCRETE SIDEWALK
 - 5 REMOVE CONCRETE MEDIAN SURFACE
 - 6 REMOVE CURB
 - 7 REMOVE CURB AND GUTTER
 - 8 NOT USED
 - 9 REMOVE CROSS GUTTER
 - 10 REMOVE CONCRETE BUS PAD
 - 11 REMOVE AND SALVAGE BOLLARD (T-BOLLARD)
 - 12 REMOVE BOLLARD (SHALLOW MOUNT)
 - 13 REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
 - 14 NOT USED
 - 15 REMOVE CONCRETE BARRIER RAIL
 - 16 REMOVE WALK OF STAR PLAQUE (BY OTHERS)
 - 17 REMOVE STORM DRAIN PIPE
 - 18 REMOVE REINFORCED CONCRETE BOX
 - 19 REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION IN ITS ENTIRETY.
 - 20 REMOVE AND SALVAGE SERVICE PEDESTAL
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 - 22 REMOVE LANDSCAPING/IRRIGATION AND RECONNECT IRRIGATION
 - 23 REMOVE TREE
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 - 25 REMOVE AND RESET CHAIN-LINK FENCE
 - 26 NOT USED
 - 27 REMOVE WALL AND FOOTING
 - 28 REMOVE GATE
 - 29 REMOVE IMPACT ATTENUATOR
 - 30 REMOVE SIDEWALK DRAIN
 - 31 REMOVE HANDRAIL
 - 32 REMOVE WALL BY CHIPPING DOWN TOP 12 INCHES (SEE DETAIL F, DWG. DT-7)
 - 33 REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
 - 34 ADJUST/RELOCATE/REMOVE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE U-DRAWINGS)
 - 35 WATER APPURTENANCES TO BE REMOVED BY LVVWD CONTRACT NO. C1497 PLANS
 - 36 REMOVE ELEVATOR TELEPHONE LINE CONDUCTORS FROM BARRIER RAIL FROM/TO NEAREST SPLICE BOXES
- P PROTECT-IN-PLACE



SEE DRAWING NO. R-11 MATCHLINE

MATCHLINE SEE DRAWING NO. R-13

"TRE" 67+75.00

"TRE" 75+25.00

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.

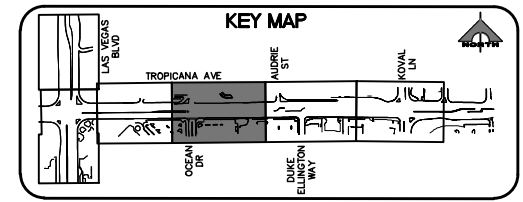
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722 FIRST APPROVED DATE: 2/7/22

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.



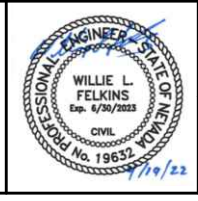
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"TRE" 67+75.00 TO "TRE" 75+25.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

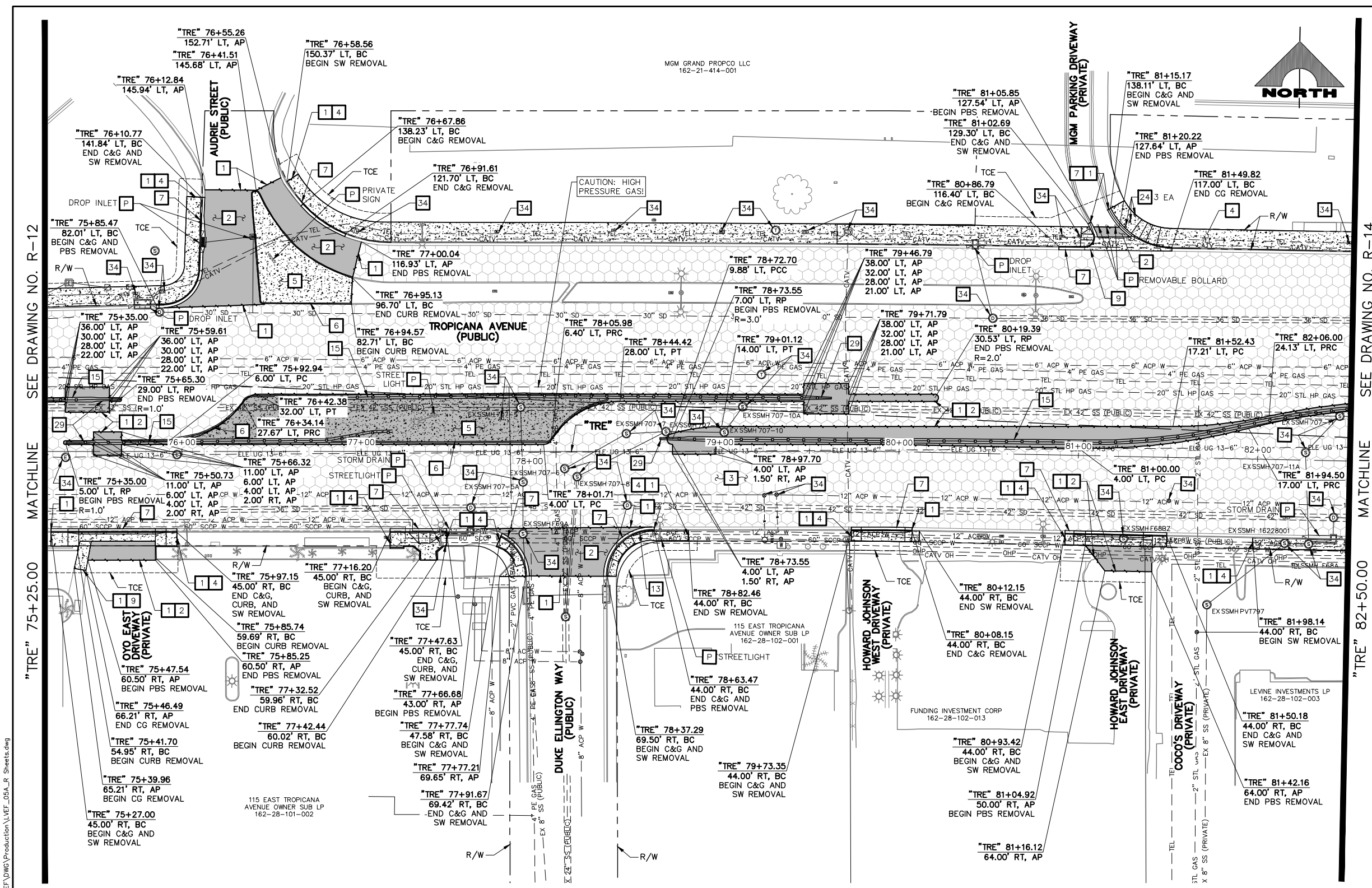


PROJECT No: 500-897-LV-EF DRAWN BY: JAP
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY:

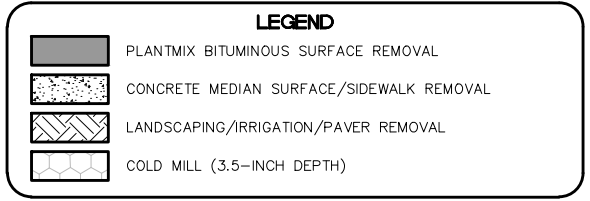
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
goveengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **R-12**
SHT. 27 OF 169
L-2304



- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
 - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
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 - 36 REMOVE ELEVATOR TELEPHONE LINE CONDUCTORS FROM BARRIER RAIL FROM/TO NEAREST SPLICE BOXES
- 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.

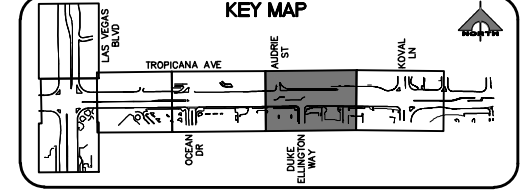
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CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

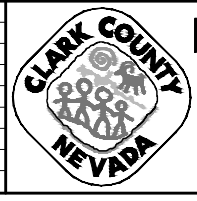
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APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722 FIRST APPROVED DATE: 2/7/22

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REV. NO.	DATE	DESCRIPTION	APPROVED

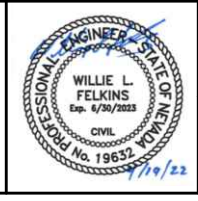


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

REMOVAL PLAN

"TRE" 75+25.00 TO "TRE" 82+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

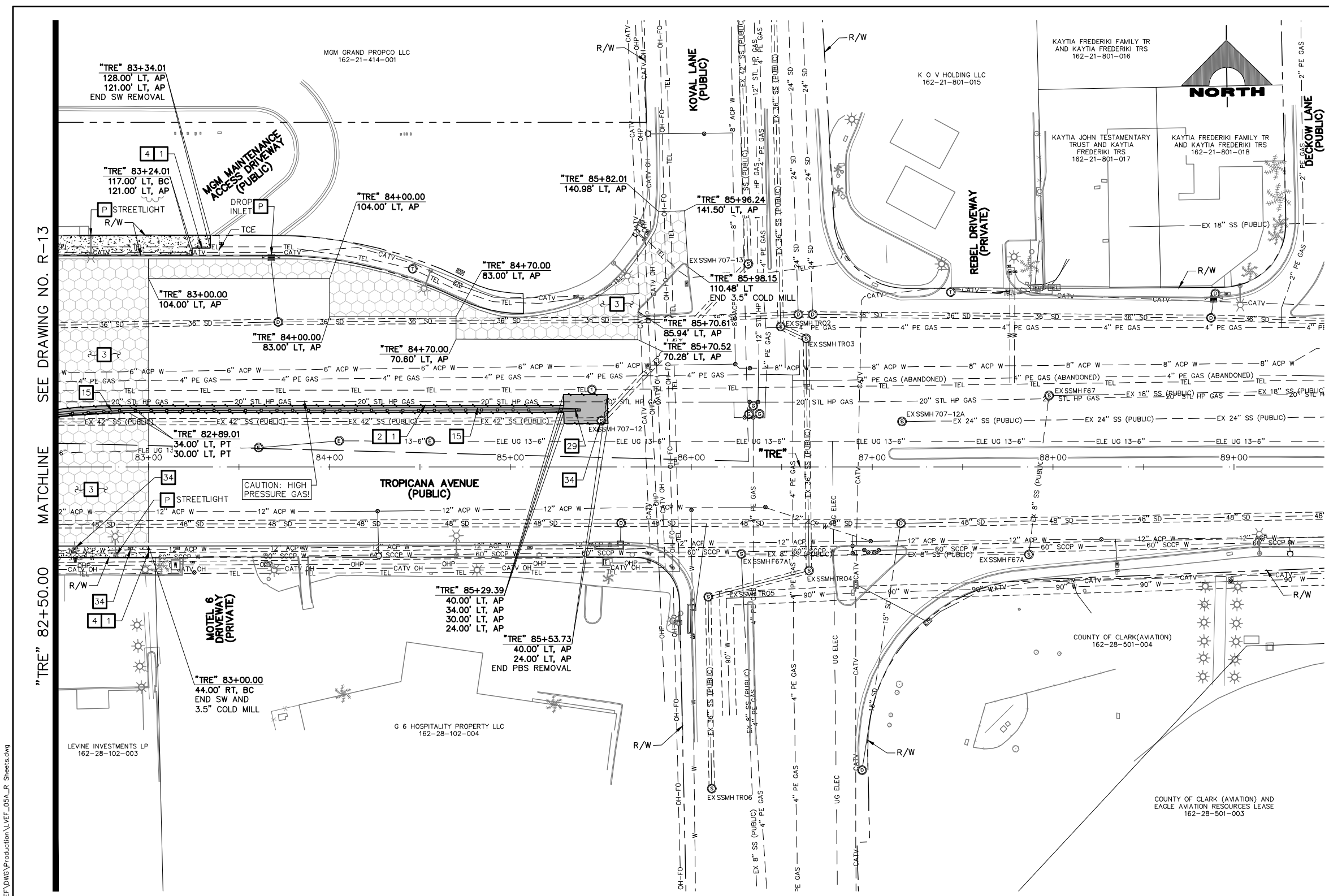


PROJECT No: 500-897-LV-EF DRAWN BY: JAP
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
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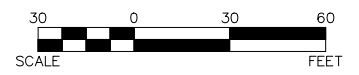
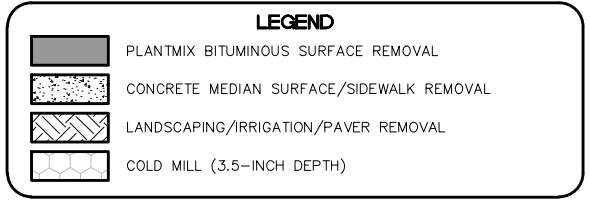
SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK
DRAWING NO. **R-13**
SHT. 28 OF 169
L-2304

04-19-22 10:41:22 F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_05A_R_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### REMOVAL NOTES
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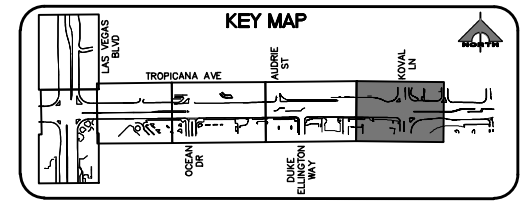
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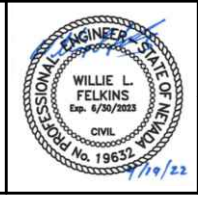
APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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 - TROPICANA AVE TO FLAMINGO RD
REMOVAL PLAN
"TRE" 82+50.00 TO "TRE" 89+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



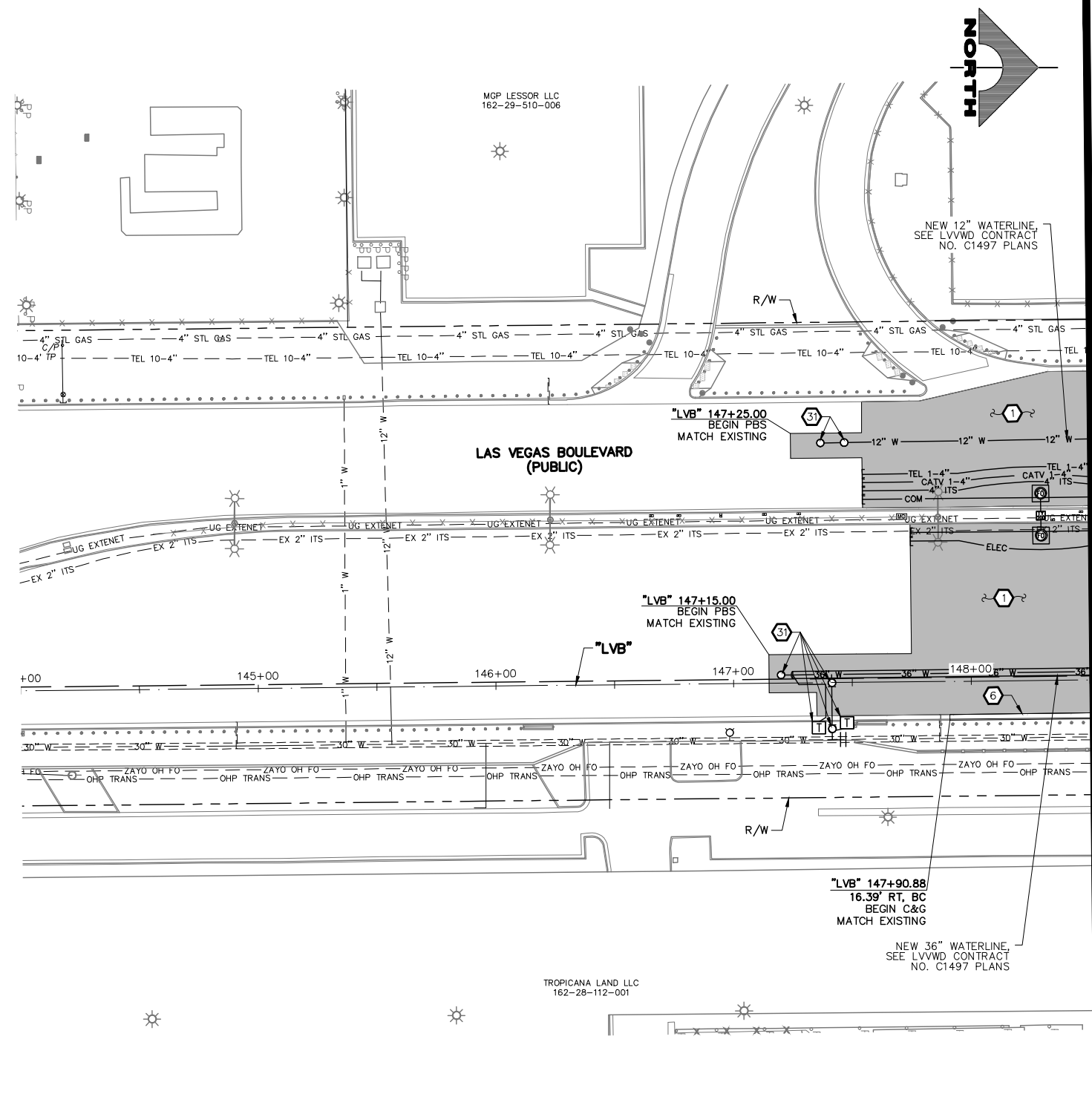
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY:
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK
DRAWING NO. **R-14**
SHT. 29 OF 169
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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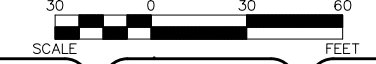


SEE DRAWING NO. C-2
MATCHLINE
"LVB" 148+50.00

- ### 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)
 - 4 CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
 - 5 CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
 - 6 CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
 - 7 CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
 - 8 CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
 - 9 RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
 - 10 CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
 - 11 CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
 - 12 CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
 - 13 CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
 - 14 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)
 - 15 CONSTRUCT CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
 - 16 CONSTRUCT CONCRETE BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
 - 17 CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS A-E, DWG. DT-7)
 - 18 CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
 - 19 MODIFY LANDSCAPING/IRRIGATION
 - 20 CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
 - 21 INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
 - 22 RESET CHAIN-LINK FENCE
 - 23 CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
 - 24 CONSTRUCT CONCRETE RETAINING WALL (SEE DETAIL A, DWG. S-2)
 - 25 INSTALL IMPACT ATTENUATOR (24-INCH WIDE) ON CONCRETE FOUNDATION (V=55 MPH) (SCI100GM BY SMITH & HILL, INC. OR APPROVED EQUAL)
 - 26 INSTALL FIRE HYDRANT ACCESS GATE (SEE DETAIL A, DWG. DT-11)
 - 27 CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER (SEE DETAIL A, DWG. DT-7)
 - 28 CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
 - 29 CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
 - 30 CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
 - 31 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 U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
 4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
 5. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

LEGEND

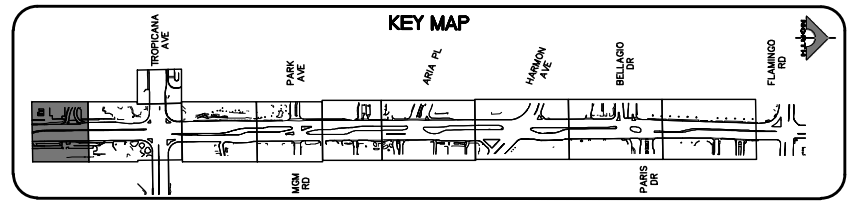
- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
- LANDSCAPING



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

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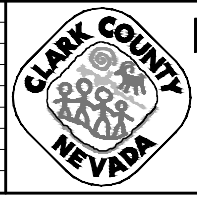
APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22



FAST
Call before you Dig
UnderGround.
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

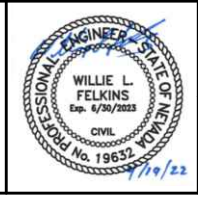


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"LVB" 144+00.00 TO "LVB" 148+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

GCV ENGINEERS SURVEYORS
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-1
VERT: NONE	SHT. 30 OF 169
FIELD BOOK	L-2304

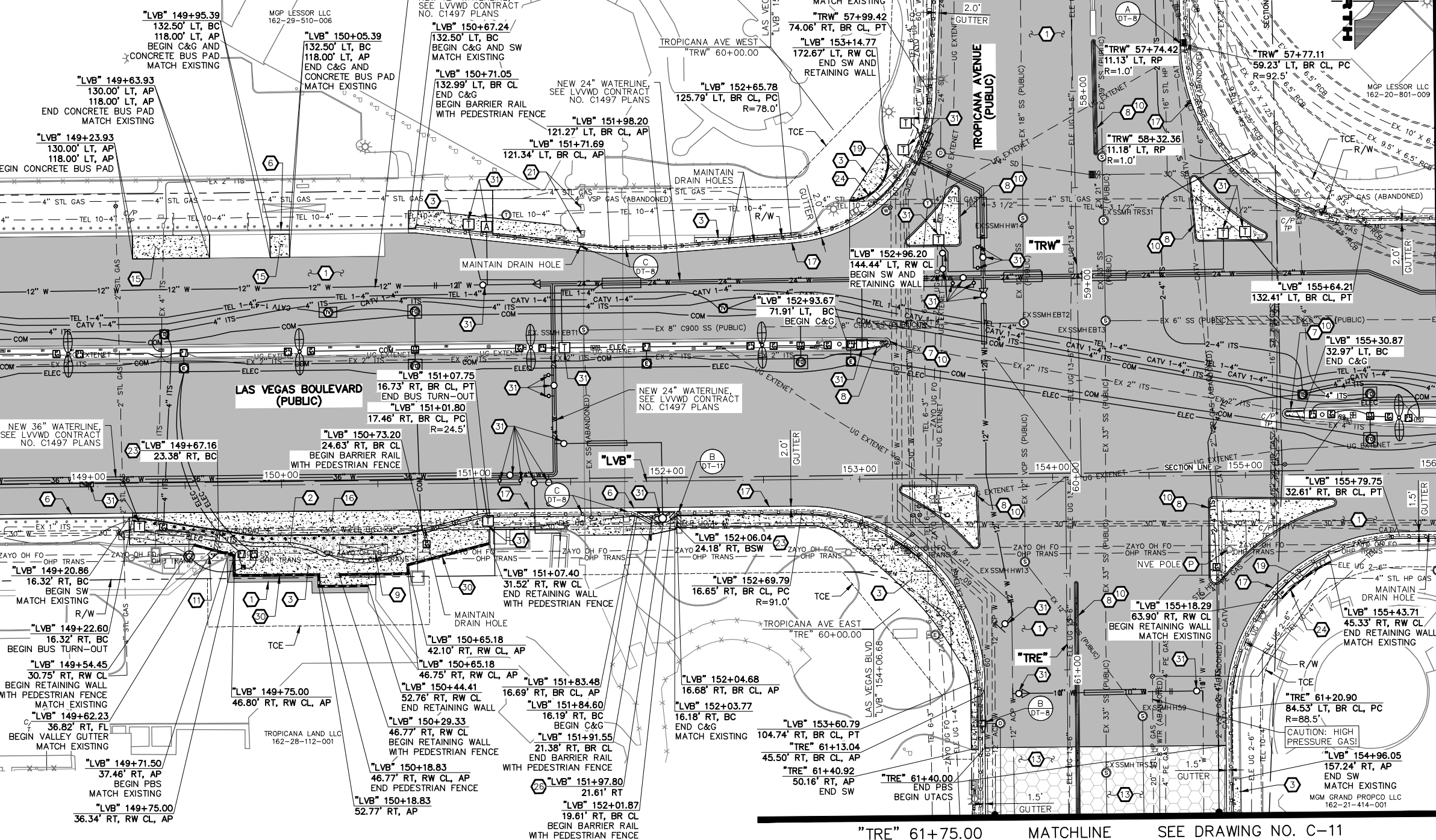
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
BD NO.: 605978-21

BUS PAD NOTE
 WHERE CONCRETE BUS PADS ARE SAWCUT OUT AND REPLACED, PROVIDE EPOXY COATED #4 BARS X 2'-0" LONG @ 18" ON-CENTER THAT ARE DRILLED AND EPOXIED INTO PLACE WITH 6" EMBEDMENT AROUND THE PERIMETER OF THE REMAINING SLAB TO TIE THE NEW SLAB TO THE EXISTING SLAB. DOWELS ARE TO BE CENTERED IN THE EXISTING SLAB.

SEE DRAWING NO. C-1

MATCHLINE

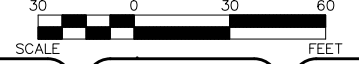
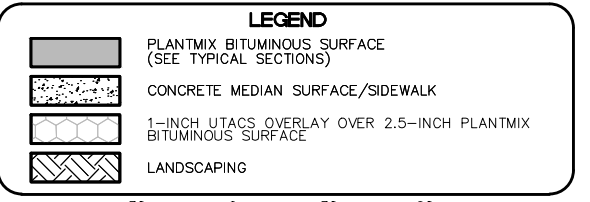
"LVB" 148+50.00



"TRW" 57+25.00 MATCHLINE SEE DRAWING NO. C-10

"TRE" 61+75.00 MATCHLINE SEE DRAWING NO. C-11

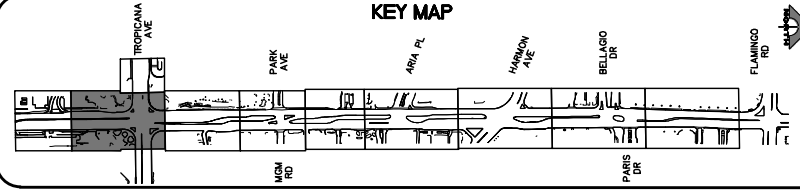
- CONSTRUCTION NOTES**
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
 - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF #1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION 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 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
 - CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
 - RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
 - CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
 - CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
 - CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
 - CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
 - 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 CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
 - CONSTRUCT CONCRETE BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
 - CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS A-E, DWG. DT-7)
 - CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
 - MODIFY LANDSCAPING/IRRIGATION
 - CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
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 - RESET CHAIN-LINK FENCE
 - CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
 - CONSTRUCT CONCRETE RETAINING WALL (SEE DETAIL A, DWG. S-2)
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 - INSTALL FIRE HYDRANT ACCESS GATE (SEE DETAIL A, DWG. DT-11)
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 - CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
 - CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
 - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
 - PROTECT-IN-PLACE
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
 - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
 - SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
 - 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.

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

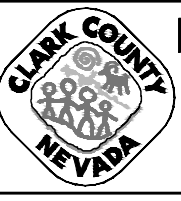
CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.983
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



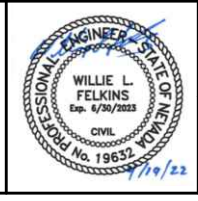
SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 1390722 FIRST APPROVED DATE: 2/7/22

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION PLAN
 "LVB" 148+50.00 TO "LVB" 156+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

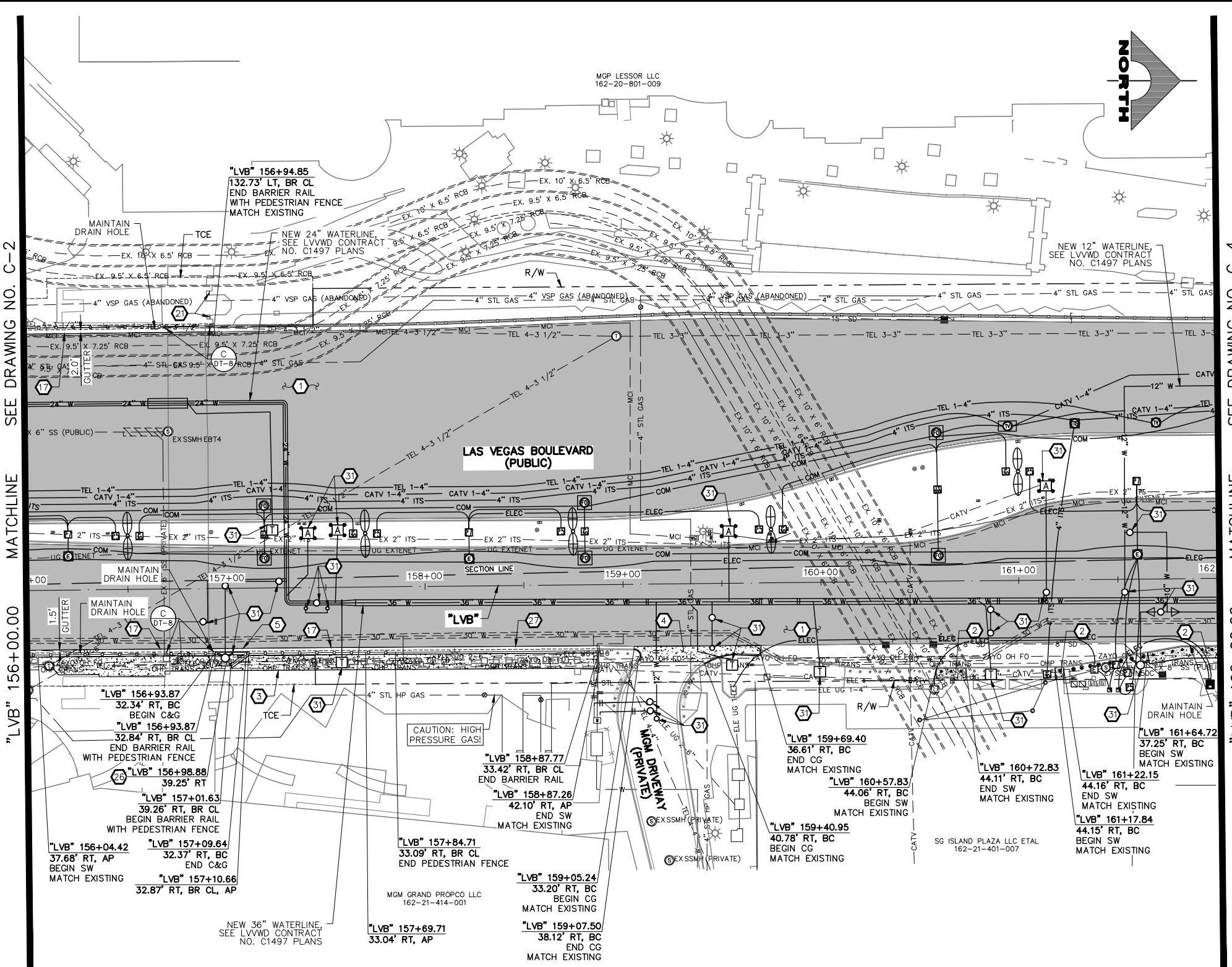


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS/SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

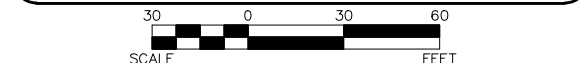
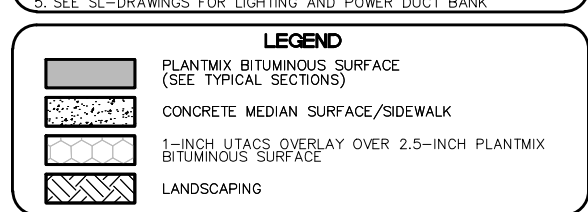
SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-2
VERT: NONE	SHT. 31 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### 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
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 - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
 - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
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 - RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
 - CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
 - CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
 - CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
 - CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
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 - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
 - PROTECT-IN-PLACE



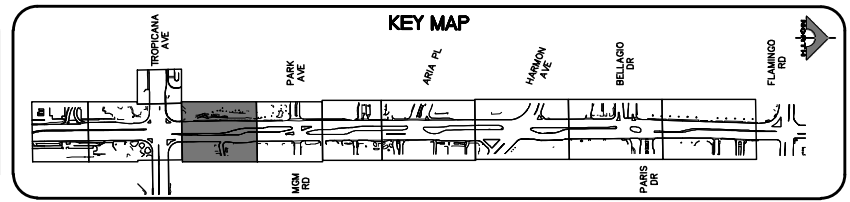
CAUTION: HIGH PRESSURE GAS!!!
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SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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

CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"LVB" 156+00.00 TO "LVB" 162+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

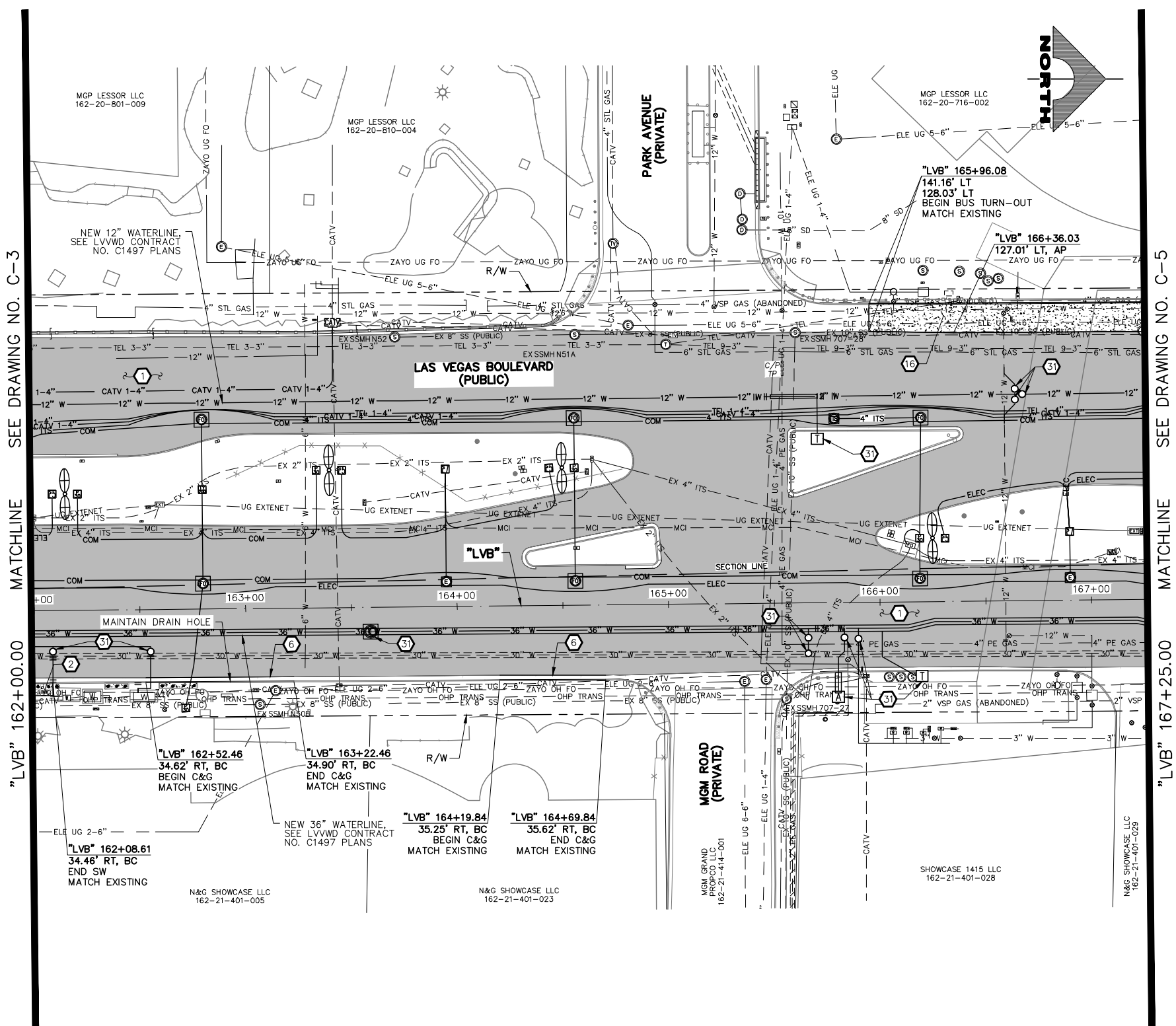
DRAWING NO. **C-3** SHT. 32 OF 169 L-2304

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

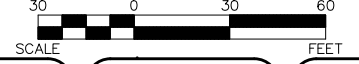
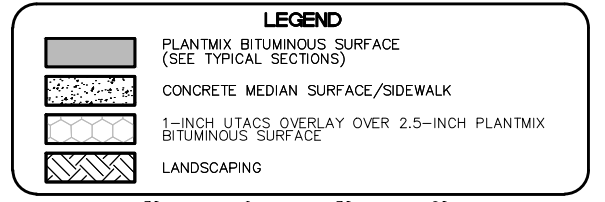
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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- ### 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
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 - 4 CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
 - 5 CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
 - 6 CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
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 - 10 CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
 - 11 CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
 - 12 CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
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 - 18 CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
 - 19 MODIFY LANDSCAPING/IRRIGATION
 - 20 CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
 - 21 INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
 - 22 RESET CHAIN-LINK FENCE
 - 23 CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
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 - 25 INSTALL IMPACT ATTENUATOR (24-INCH WIDE) ON CONCRETE FOUNDATION (V=55 MPH) (SCI100GM BY SMITH & HILL, INC. OR APPROVED EQUAL)
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 - 30 CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
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 - 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 U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
 4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
 5. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



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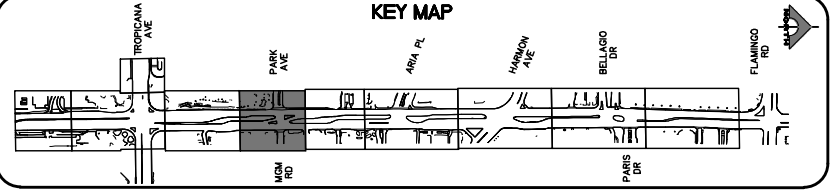
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.983

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. ITS COSTLY!

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION PLAN
"LVB" 162+00.00 TO "LVB" 167+25.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



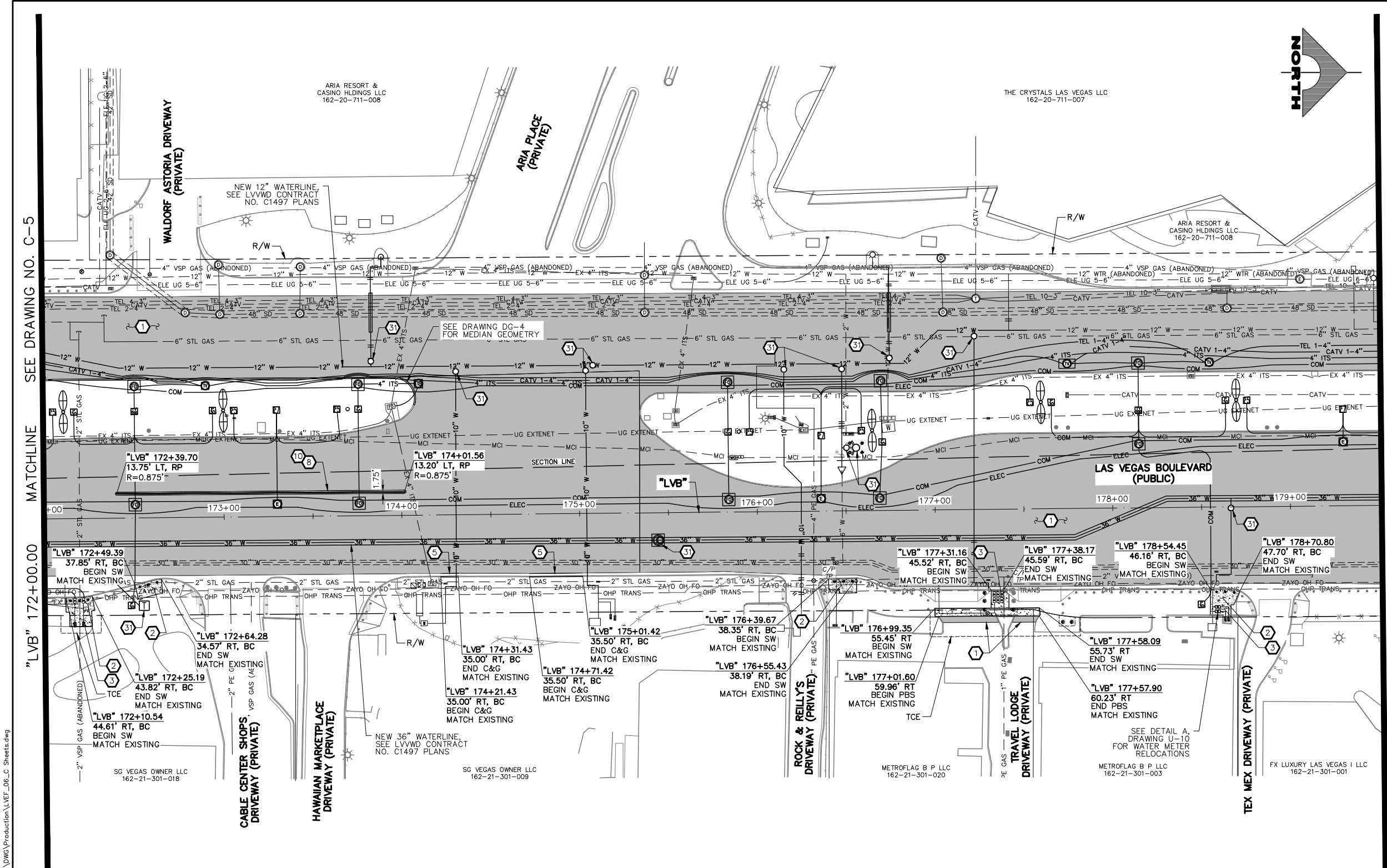
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

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

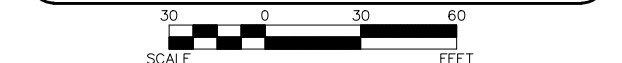
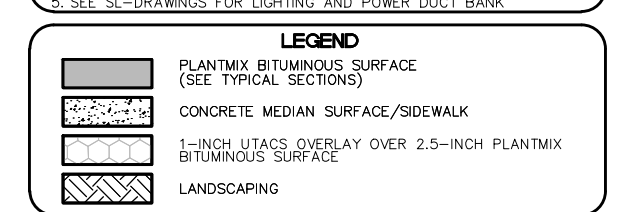
SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

DRAWING NO. **C-4**
 SH. 33 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



- ### 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
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 - CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
 - CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
 - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
 - PROTECT-IN-PLACE



SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881
14 DAYS 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.

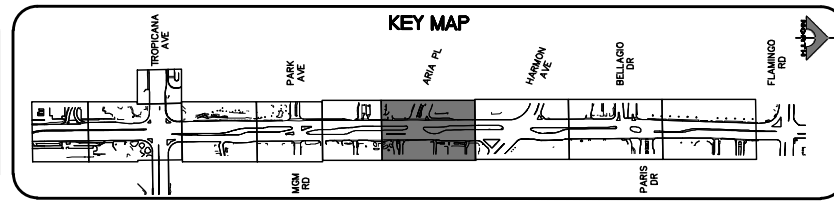
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722
FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

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

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UnderGround.

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Avoid cutting underground utility lines. It's costly.

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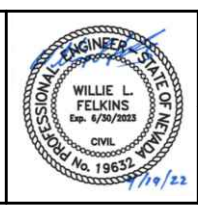
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"LVB" 172+00.00 TO "LVB" 179+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF
DESIGNED BY: DSH
APPROVED BY: _____

DRAWN BY: TAA
CHECKED BY: WLF

SCALE: _____
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: _____

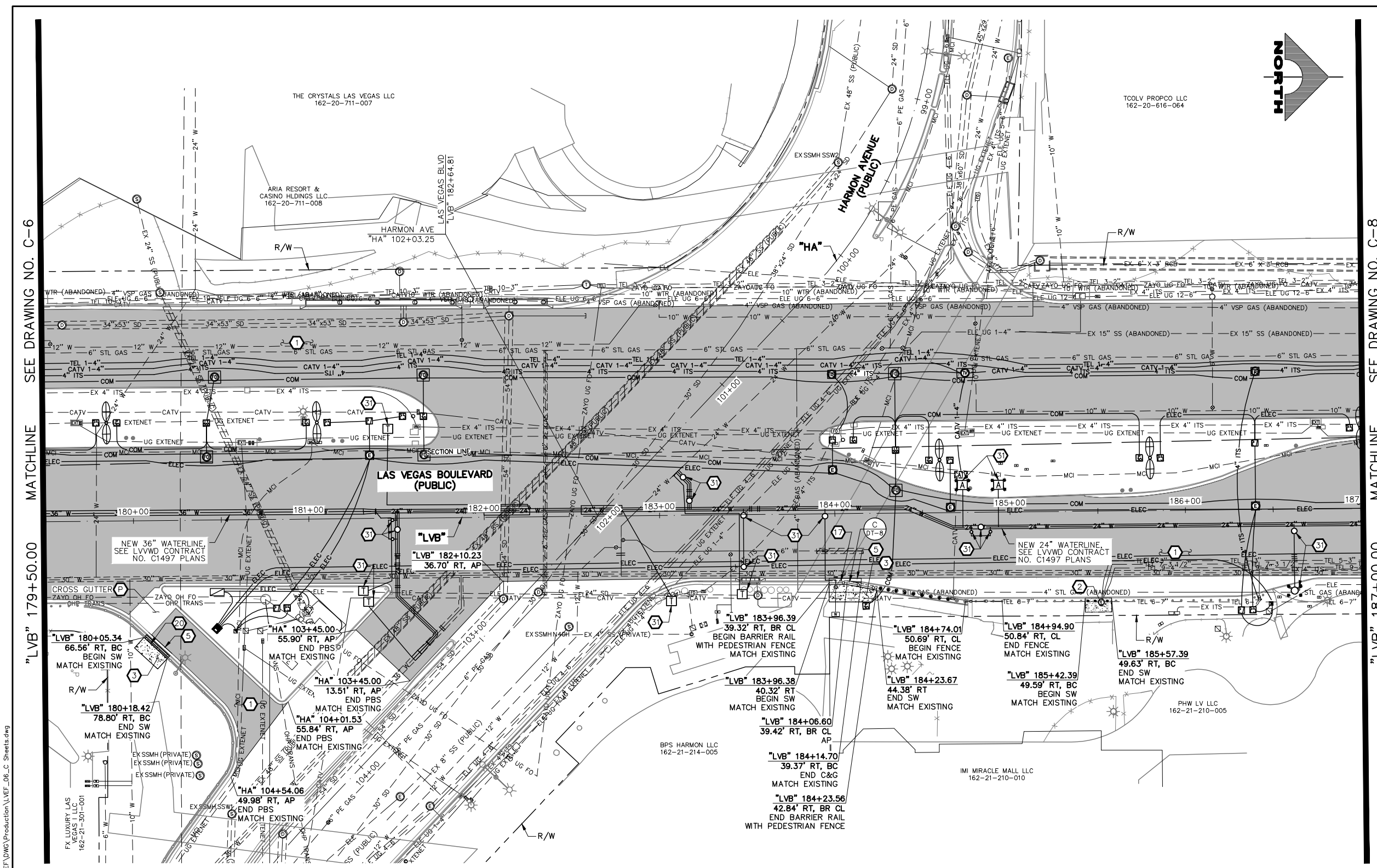
GCV
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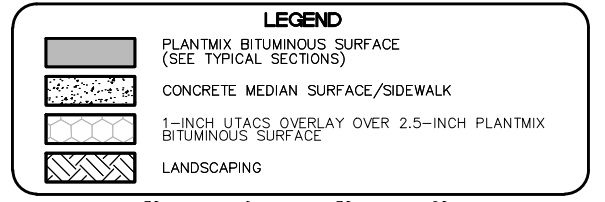
DRAWING NO. **C-6**

SHT. 35 OF 169

L-2304



- ### CONSTRUCTION NOTES
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 - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

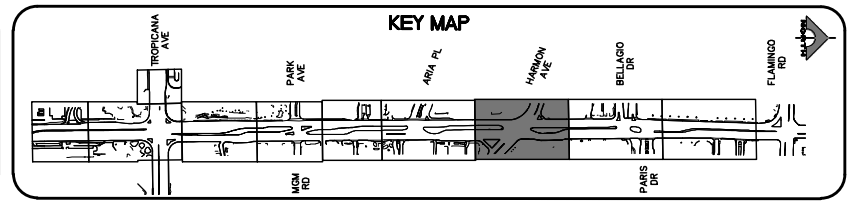


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APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722
FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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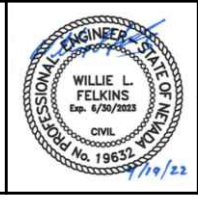
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"LVB" 179+50.00 TO "LVB" 187+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



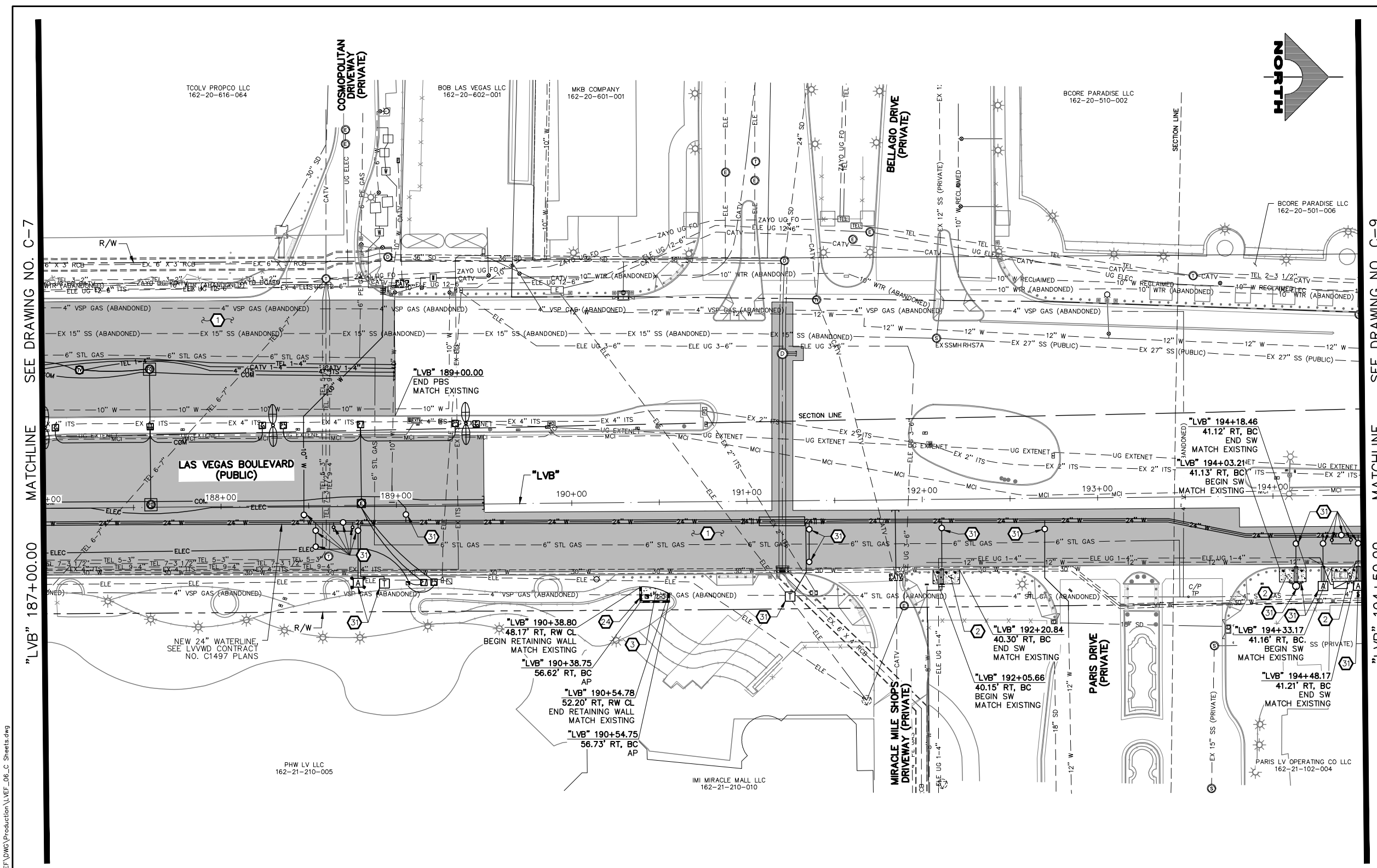
PROJECT No: 500-897-LV-EF
DESIGNED BY: DSH
APPROVED BY: _____

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CHECKED BY: WLF

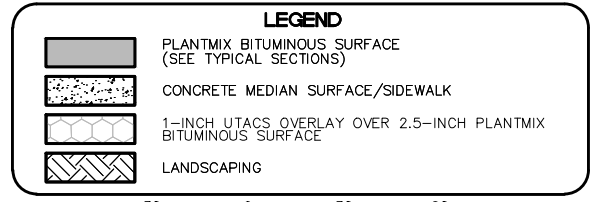
SCALE: _____
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VERT: NONE
FIELD BOOK: _____

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DRAWING NO. **C-7**
SHT. 36 OF 169
L-2304



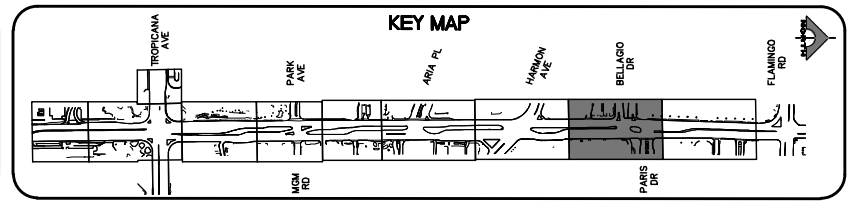
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SOUTHWEST GAS VALVE NOTE
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14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072
FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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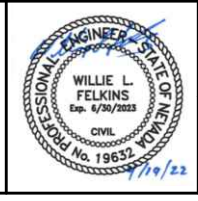
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"LVB" 187+00.00 TO "LVB" 194+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF
DESIGNED BY: DSH
APPROVED BY: _____
DRAWN BY: TAA
CHECKED BY: WLF
SCALE: _____
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: _____



DRAWING NO. **C-8**
SHT. 37 OF 169
L-2304

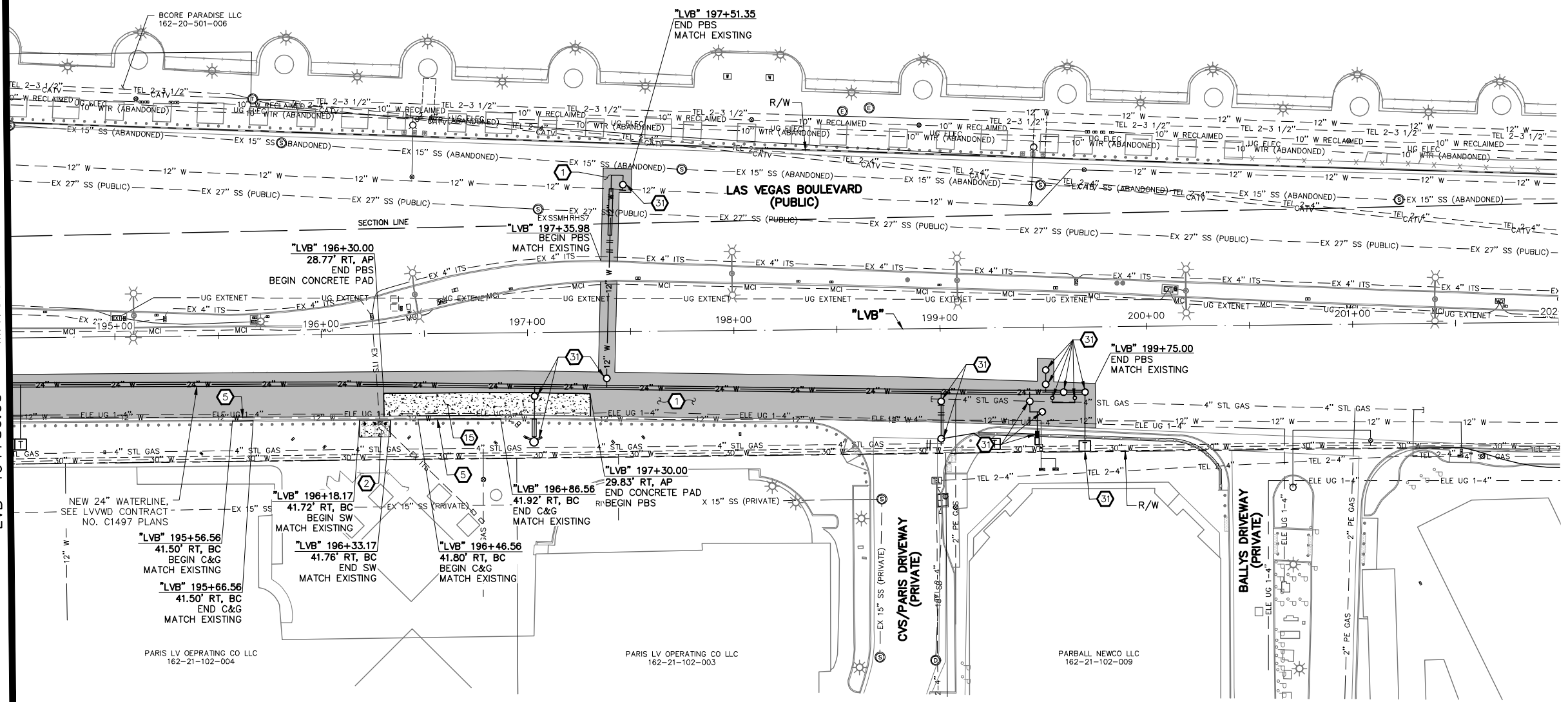
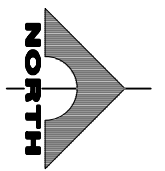
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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SEE DRAWING NO. C-8 MATCHLINE "LVB" 194+50.00

BCORE PARADISE LLC
162-20-510-002

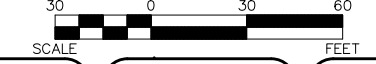


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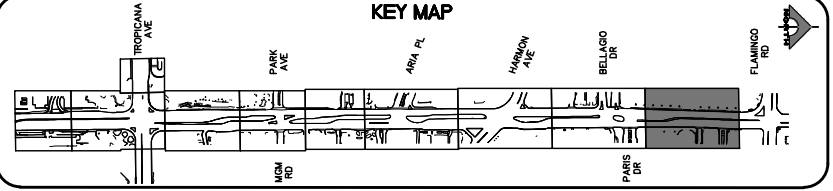
LEGEND

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
- LANDSCAPING



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
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
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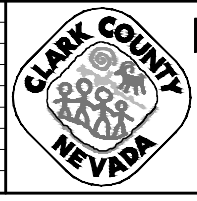
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 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"LVB" 194+50.00 TO "LVB" 202+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



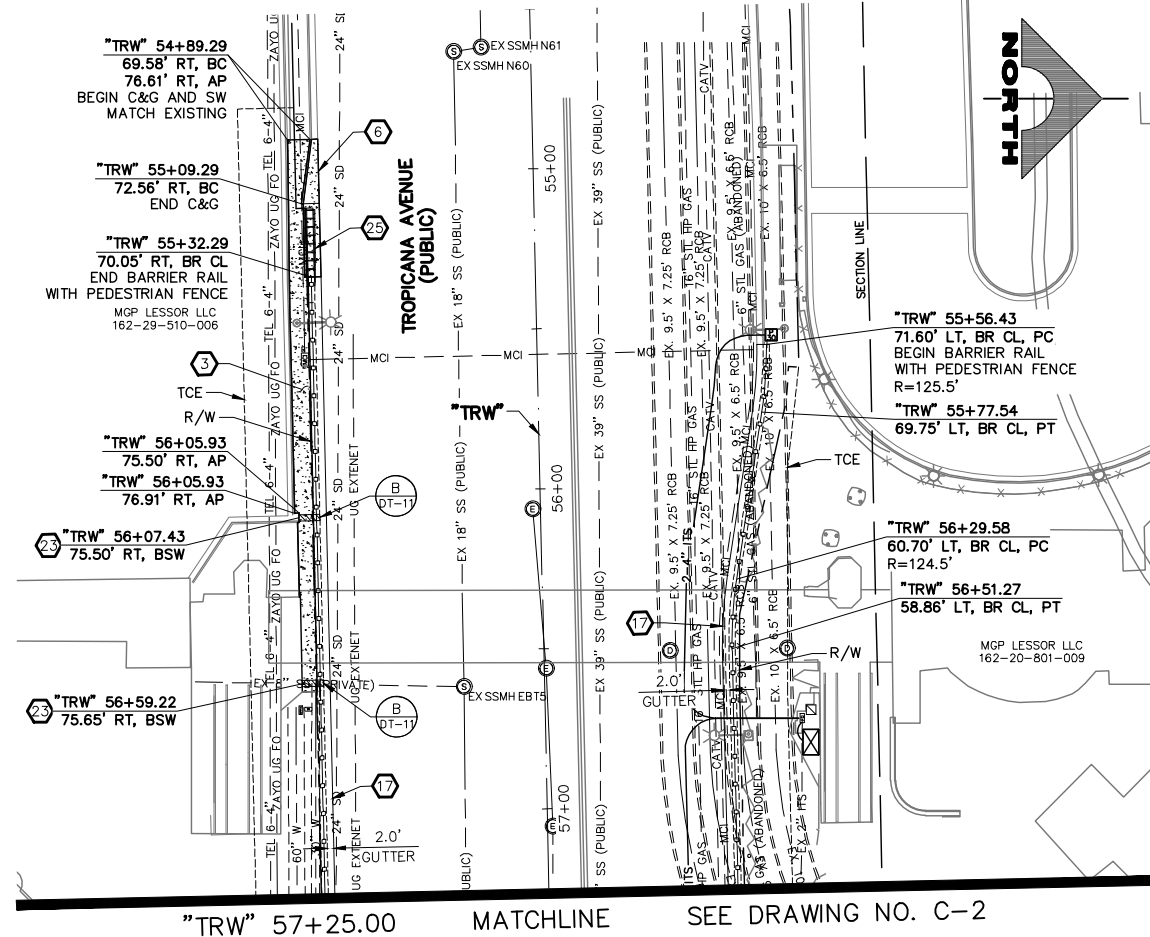
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY:

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-9
VERT: NONE	SHT. 38 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

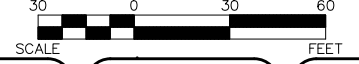
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 - 5 CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
 - 6 CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
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 - 8 CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
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 - 10 CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
 - 11 CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
 - 12 CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
 - 13 CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
 - 14 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)
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 - 31 SEE LVWD 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 U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
 4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
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LEGEND

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
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- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
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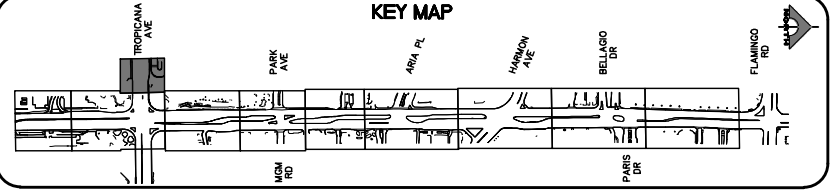
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SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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 - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"TRW" 54+50.00 TO "TRW" 57+25.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
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. 39 OF 169
L-2304

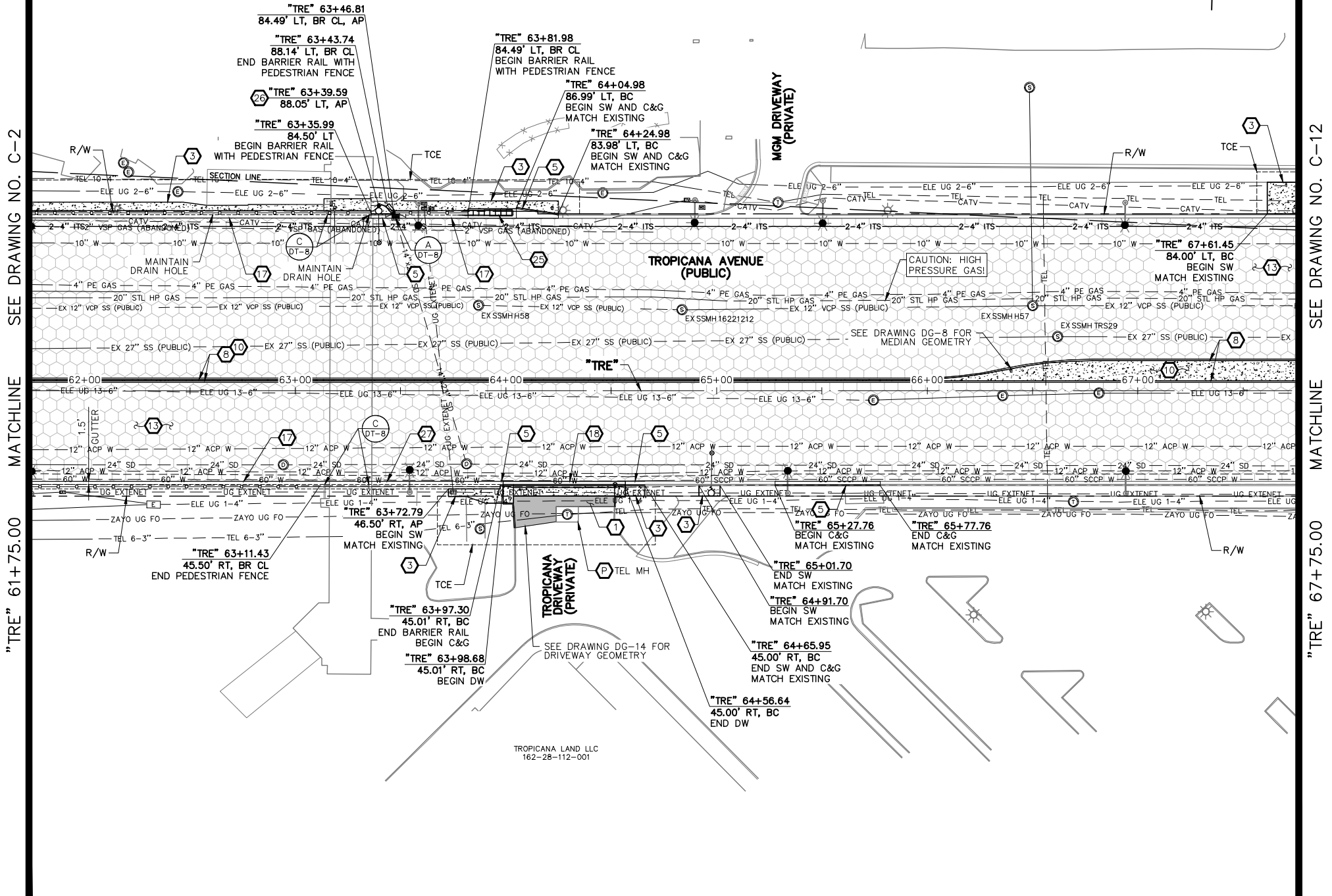
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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04-19-22 10:44:54

Lodoms

MGM GRAND PROPCO LLC
162-21-414-001



SEE DRAWING NO. C-2

MATCHLINE

"TRE" 61+75.00

SEE DRAWING NO. C-12

MATCHLINE

"TRE" 67+75.00

CONSTRUCTION NOTES

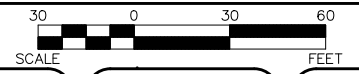
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NOTES

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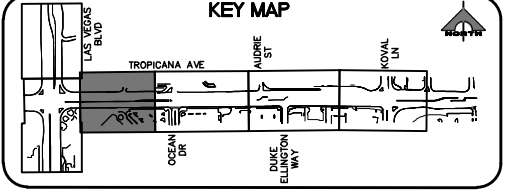
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CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22



REV. NO.	DATE	DESCRIPTION	APPROVED



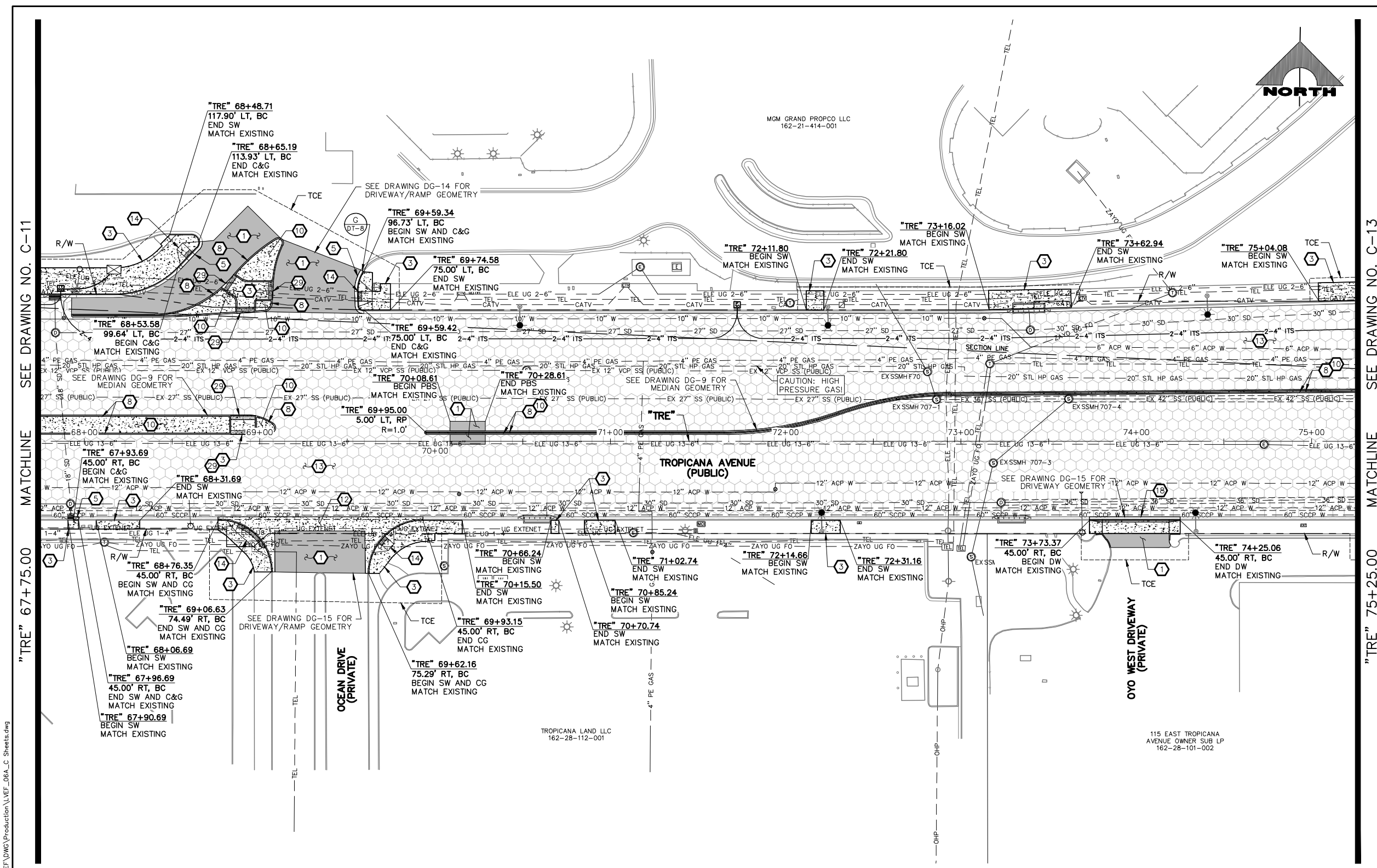
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION PLAN
"TRE" 61+75.00 TO "TRE" 67+75.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



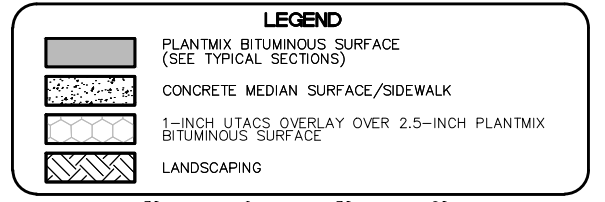
PROJECT No: 500-897-LV-EF DRAWN BY: JAP
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APPROVED BY: _____
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE: _____
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: _____
DRAWING NO. **C-11**
SHT. 40 OF 169
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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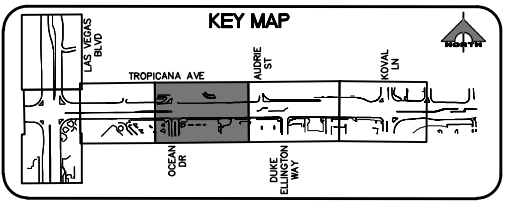
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APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072
FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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
1-800-642-2444

FAST
Call before you UnderGround.
1-702-227-2929

Call before you Dig
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"TRE" 67+75.00 TO "TRE" 75+25.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

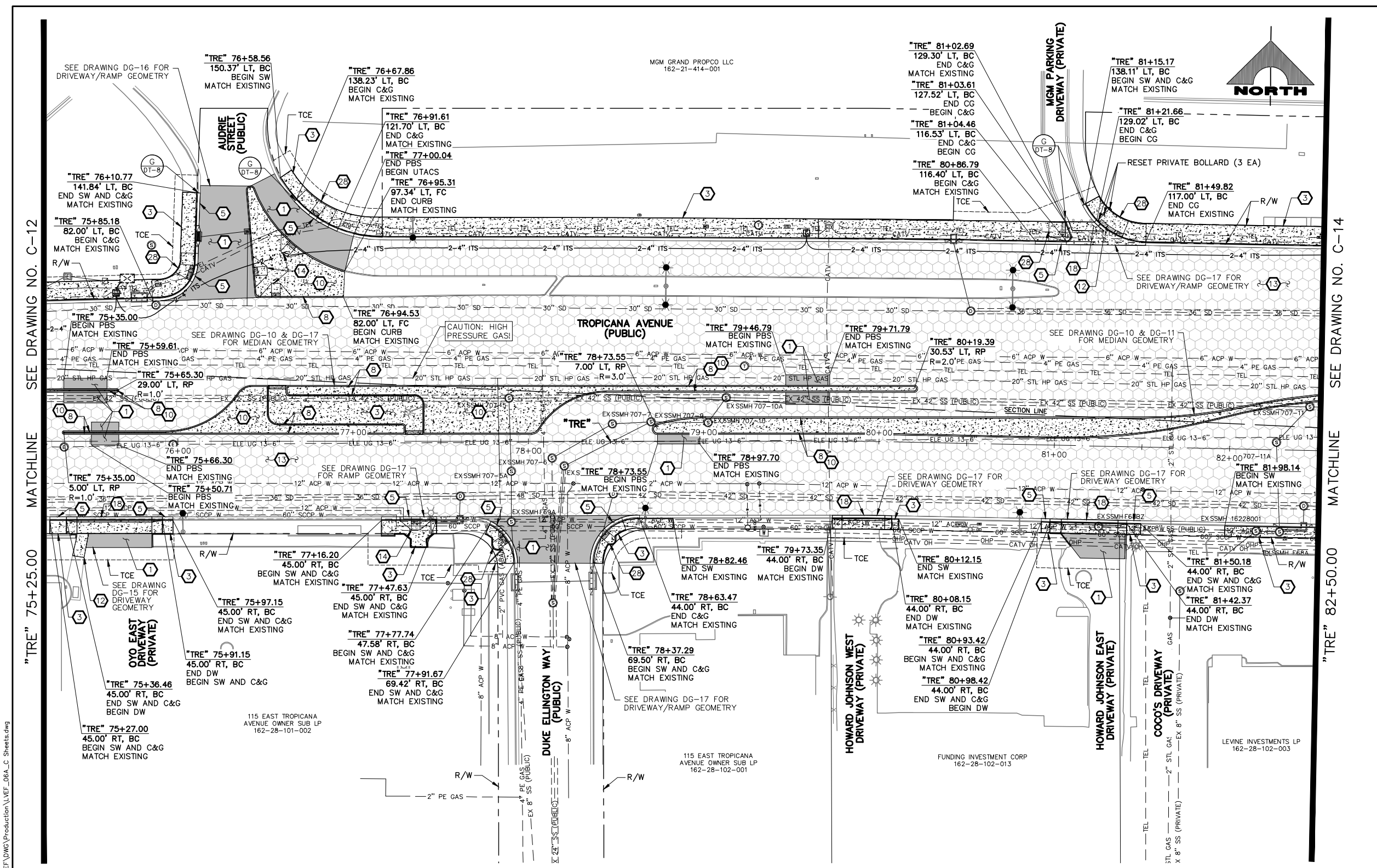


PROJECT No: 500-897-LV-EF DRAWN BY: JAP
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

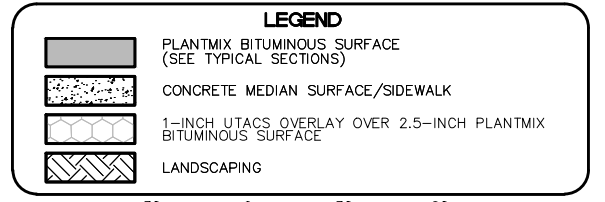
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F: 702.804.2299
gcvengineering.com

SCALE: _____
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: _____

DRAWING NO. **C-12**
SHT. 41 OF 169
L-2304



- ### CONSTRUCTION NOTES
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SEE DRAWING NO. C-12
MATCHLINE

SEE DRAWING NO. C-14
MATCHLINE

"TRE" 75+25.00
MATCHLINE

"TRE" 82+50.00
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 14 DAYS 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.

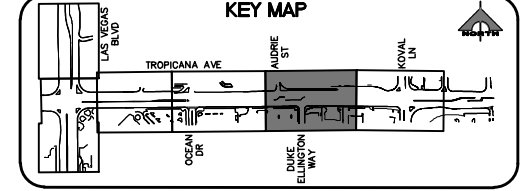
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 1390722
FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

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

CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION PLAN

"TRE" 75+25.00 TO "TRE" 82+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

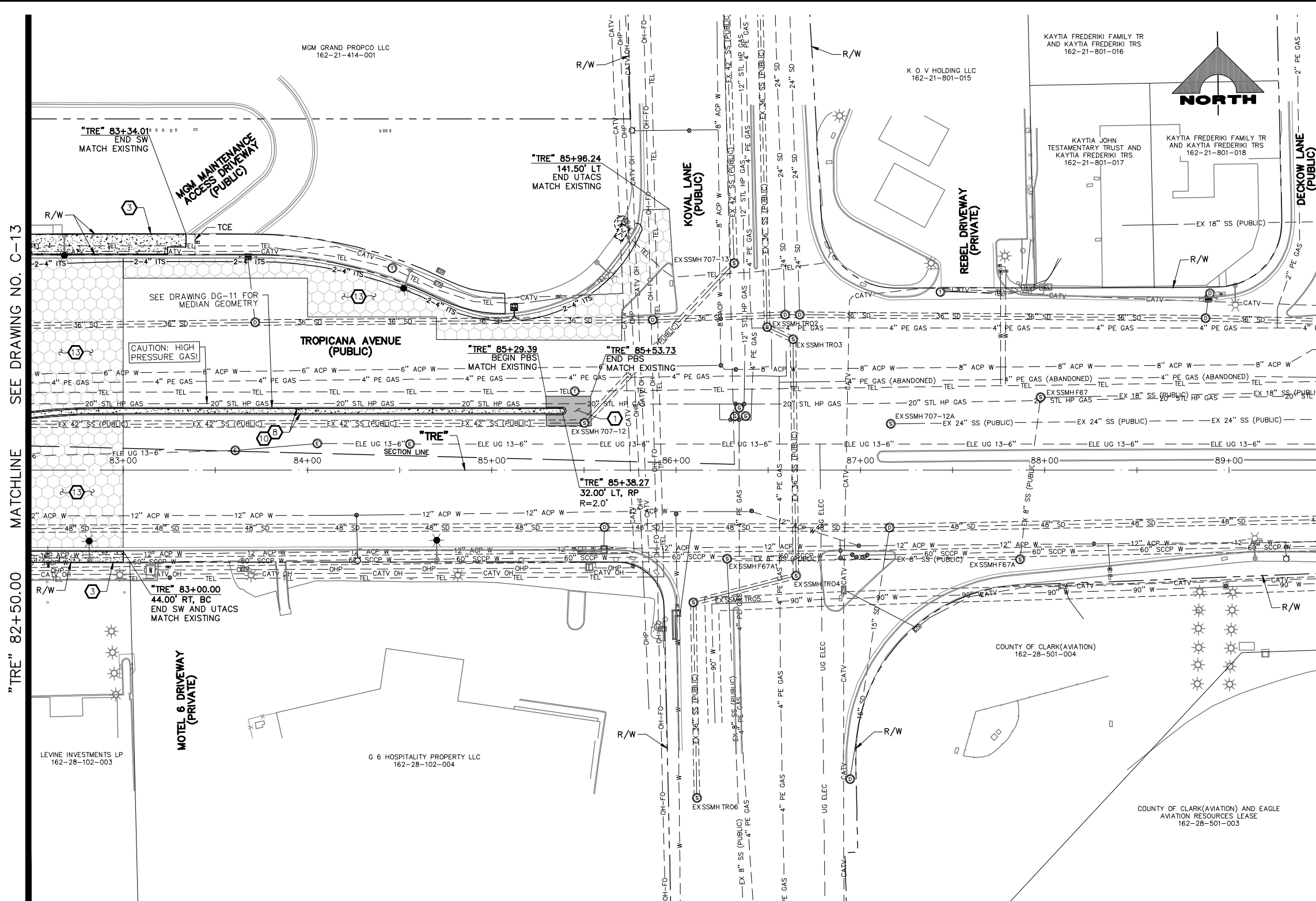


PROJECT No: 500-897-LV-EF DRAWN BY: JAP
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

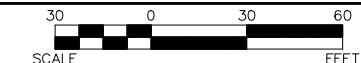
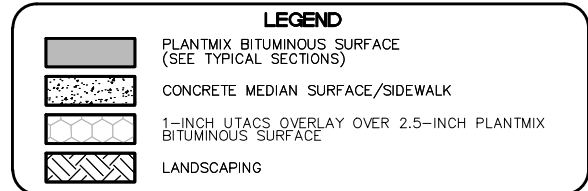
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-13
VERT: NONE	SHT. 42 OF 169
FIELD BOOK	L-2304

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- ### 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)
 - 4 CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
 - 5 CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
 - 6 CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
 - 7 CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
 - 8 CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
 - 9 RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
 - 10 CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
 - 11 CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
 - 12 CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
 - 13 CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
 - 14 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)
 - 15 CONSTRUCT CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
 - 16 CONSTRUCT CONCRETE BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
 - 17 CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS A-E, DWG. DT-7)
 - 18 CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
 - 19 MODIFY LANDSCAPING/IRRIGATION
 - 20 CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
 - 21 INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
 - 22 RESET CHAIN-LINK FENCE
 - 23 CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
 - 24 CONSTRUCT CONCRETE RETAINING WALL (SEE DETAIL A, DWG. S-2)
 - 25 INSTALL IMPACT ATTENUATOR (24-INCH WIDE) ON CONCRETE FOUNDATION (V=55 MPH) (SC1100GM BY SMITH & HILL, INC. OR APPROVED EQUAL)
 - 26 INSTALL FIRE HYDRANT ACCESS GATE (SEE DETAIL A, DWG. DT-11)
 - 27 CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER (SEE DETAIL A, DWG. DT-7)
 - 28 CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
 - 29 CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
 - 30 CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
 - 31 SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
 - 32 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 U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
 4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
 5. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



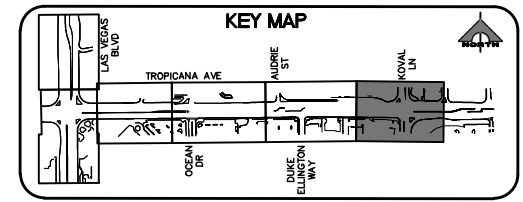
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APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION PLAN
"TRE" 82+50.00 TO "TRE" 89+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

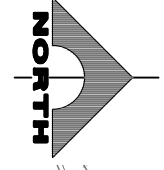
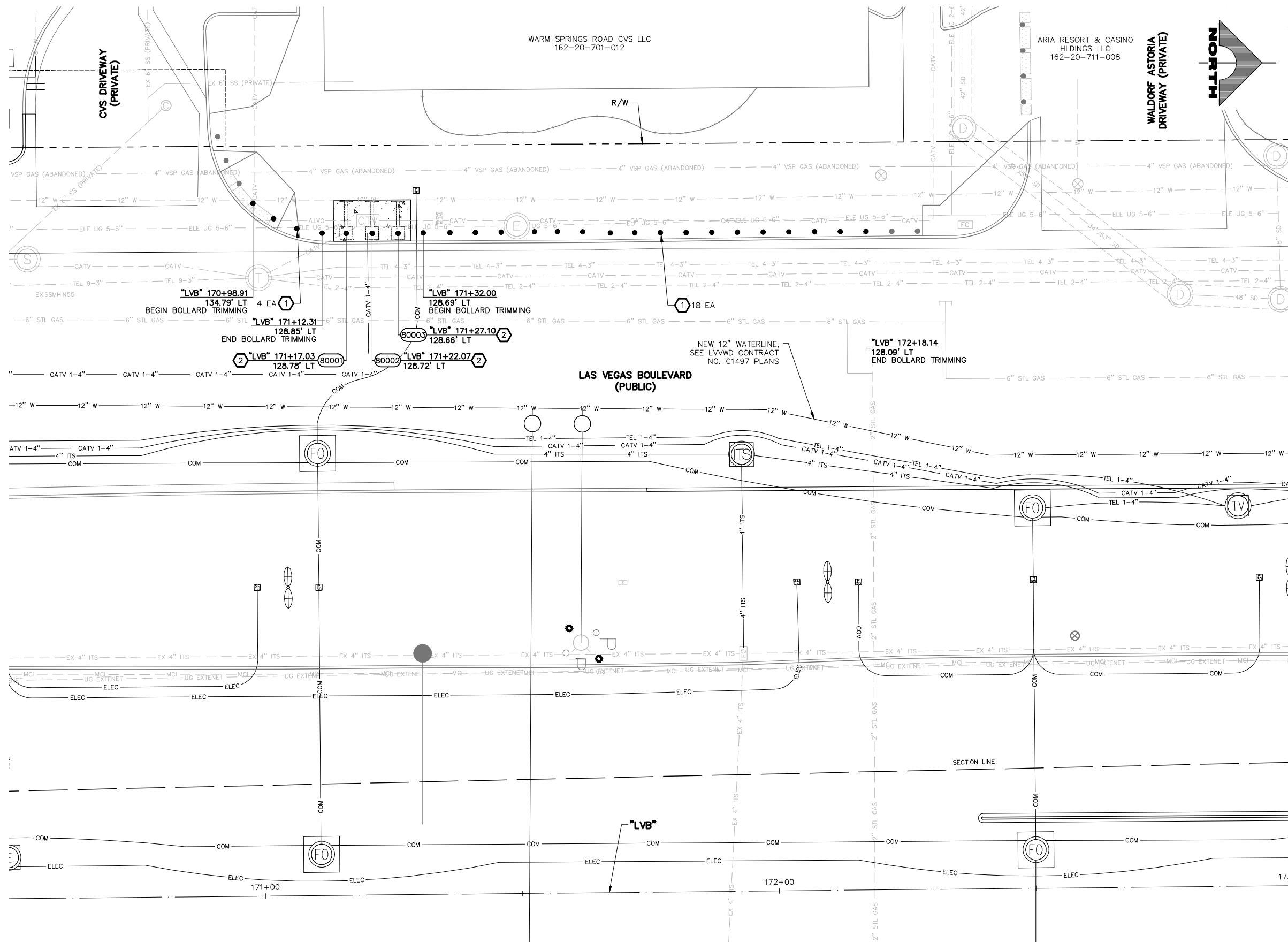


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

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-14
VERT: NONE	SHT. 43 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



BOLLARD NOTES

- 1 TRIM BOLLARD TO 36-INCH HEIGHT (SEE DETAIL C, DWG. DT-5)
- 2 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 48-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
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- P PROTECT-IN-PLACE

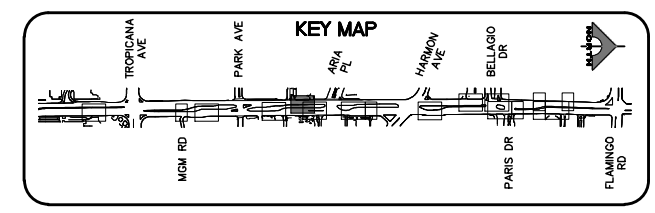
NOTES
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APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

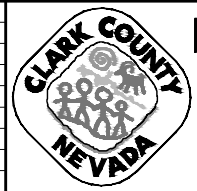
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CALL BEFORE YOU DO OVERHEAD
 1-702-227-2929

FAST Call before you UnderGround.
 1-702-901-8400

Call before you Dig
 1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
 "LVB" 170+50.00 TO "LVB" 173+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



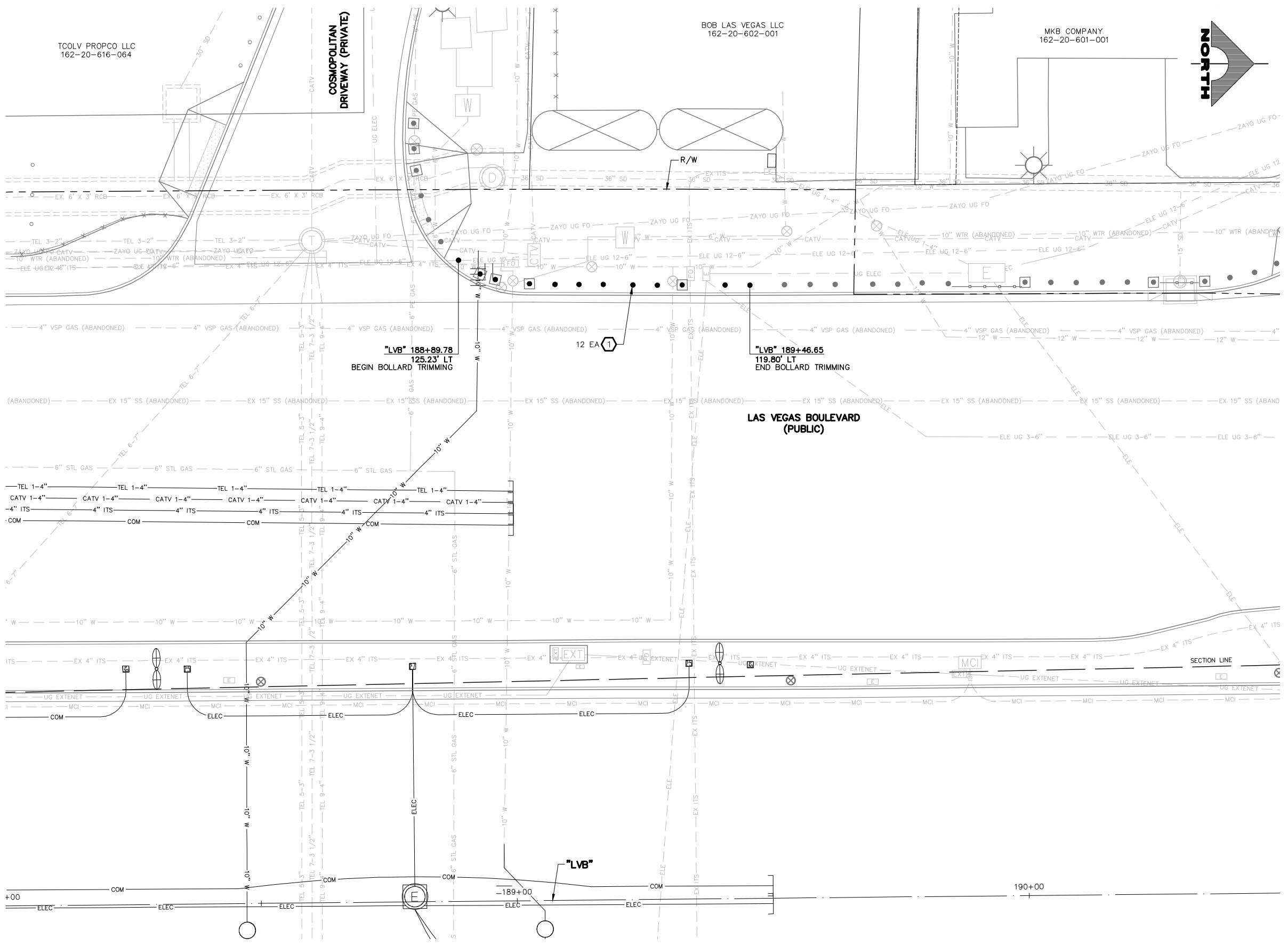
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY:

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-1
VERT: NONE	SHT. 44 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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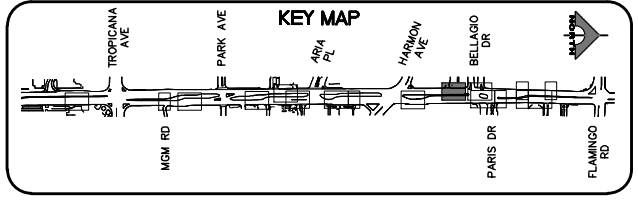
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APPROVED FOR CONSTRUCTION

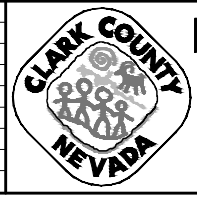
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 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

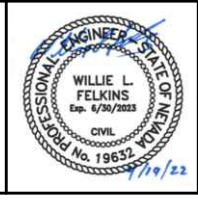
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
 "LVB" 188+00.00 TO "LVB" 190+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

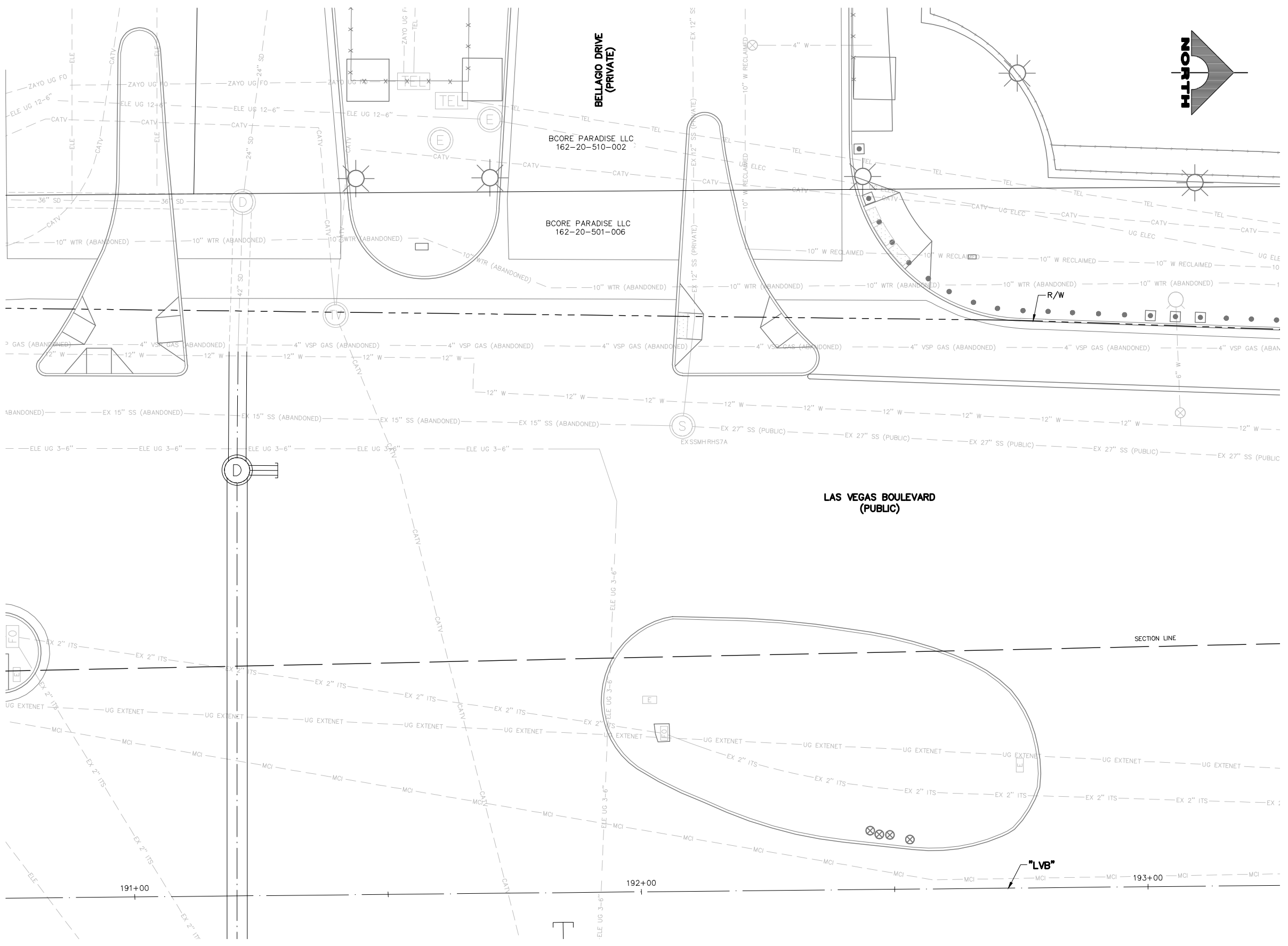
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **B-2**
 SHT. 45 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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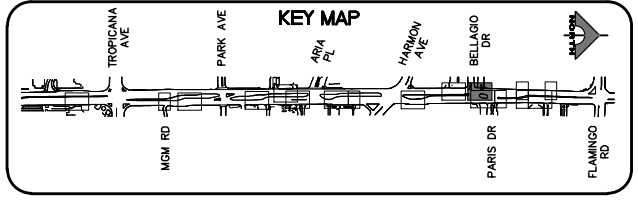
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APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
"LVB" 190+75.00 TO "LVB" 193+25.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



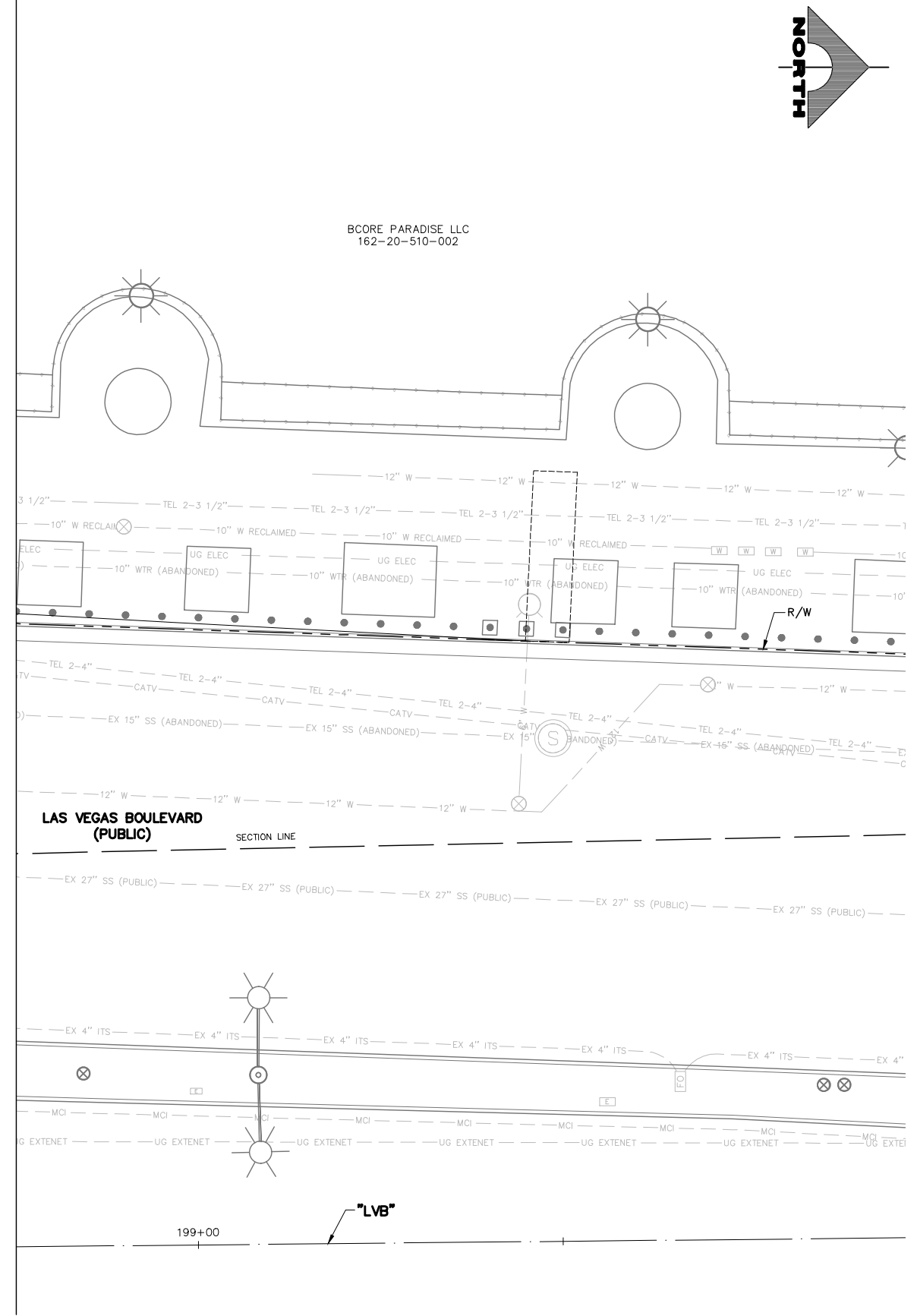
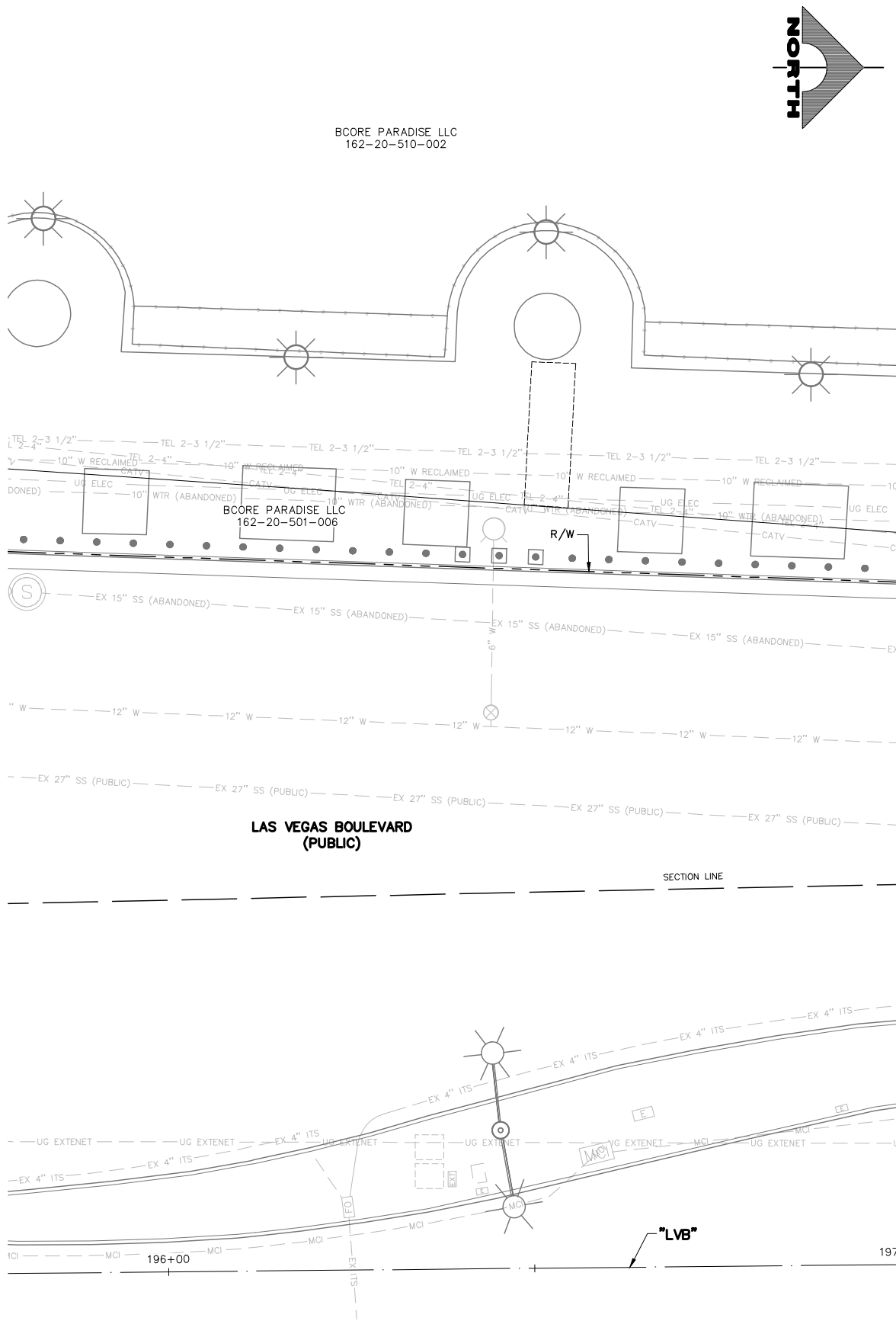
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
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 APPROVED BY: _____

GCV ENGINEERS SURVEYORS
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-3
VERT: NONE	SHT. 46 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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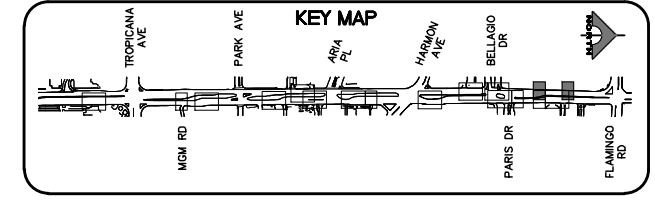
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CALL BEFORE YOU DO OVERHEAD

Avoid cutting overhead power lines. It's costly.

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

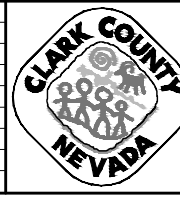
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

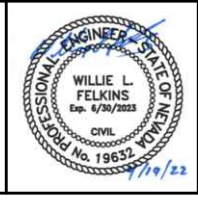


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

BOLLARD PLAN

"LVB" 195+75.00 TO "LVB" 197+00.00 & "LVB" 198+75.00 TO "LVB" 200+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

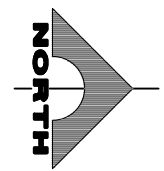
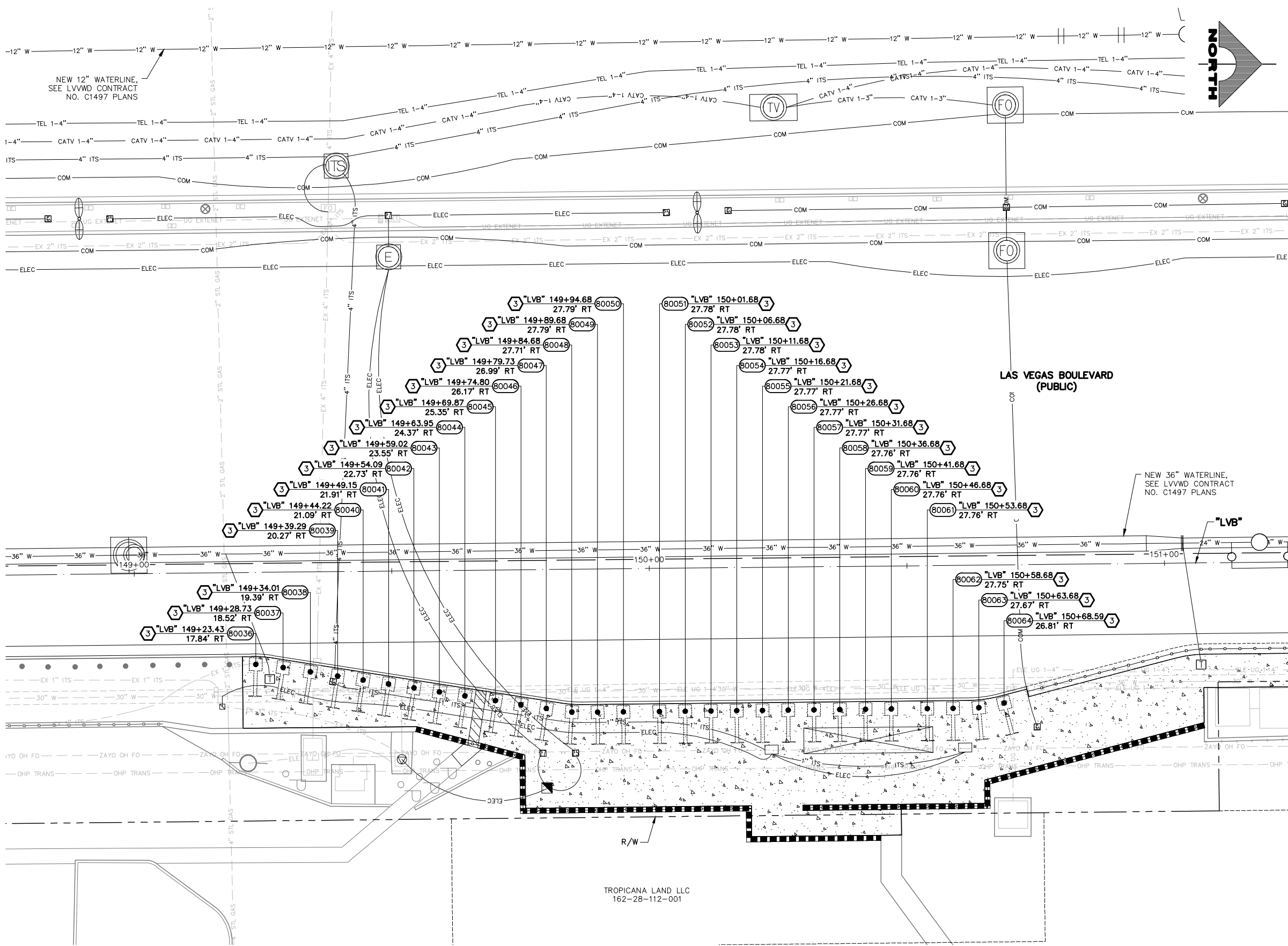


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 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

GCV ENGINEERS SURVEYORS
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-4
VERT: NONE	SHT. 47 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



BOLLARD NOTES

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- P PROTECT-IN-PLACE

NOTES

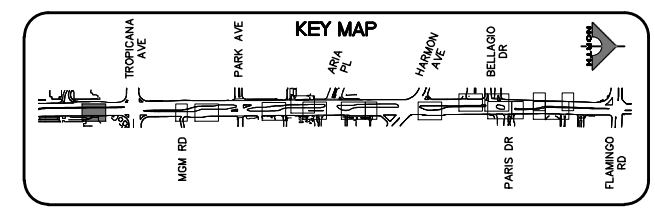
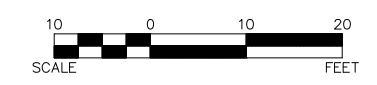
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APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.



CALL BEFORE YOU DO OVERHEAD
 1-702-227-2929

FAST Call before you UnderGround.
 1-702-901-8400

Call before you Dig
 1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
"LVB" 148+75.00 TO "LVB" 151+25.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

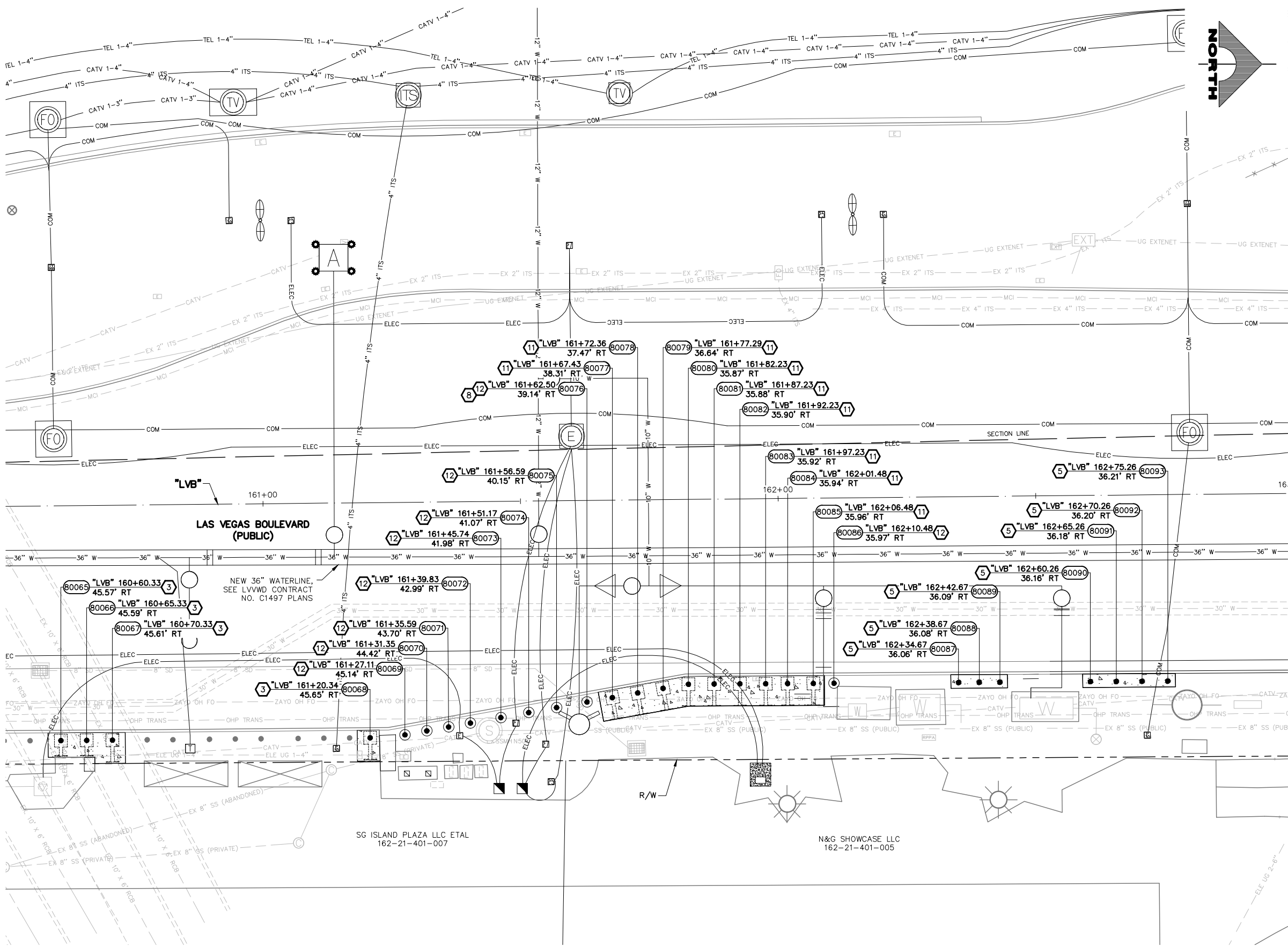


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-5
VERT: NONE	SHT. 48 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



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APPROVED FOR CONSTRUCTION

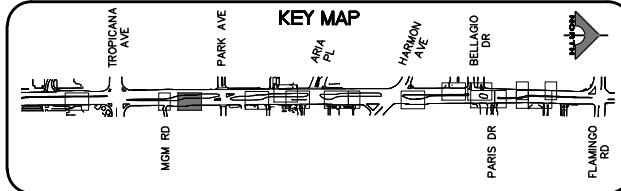
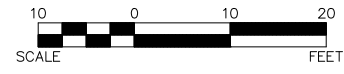
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 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

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FROM BOLLARD 80069 TO 80093

INSTALL BOLLARDS 4 INCHES BELOW BACK OF CURB ELEVATION TO ACCOUNT FOR LANDSCAPE COVER TO BE PLACED OVER BOLLARD CONCRETE FOUNDATION.



CALL BEFORE YOU DIG
 AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

1-702-227-2929

FAST
 Call before you UnderGround.

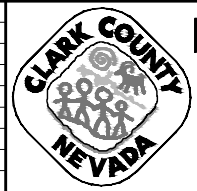
1-702-901-8400
 FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
 AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

1-800-642-2444

F:\Projects\500\500-897-LV-EF\DWG\Production\LV_EF_07_B_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
 "LVB" 160+50.00 TO "LVB" 163+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

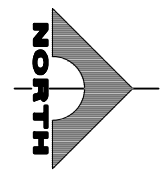
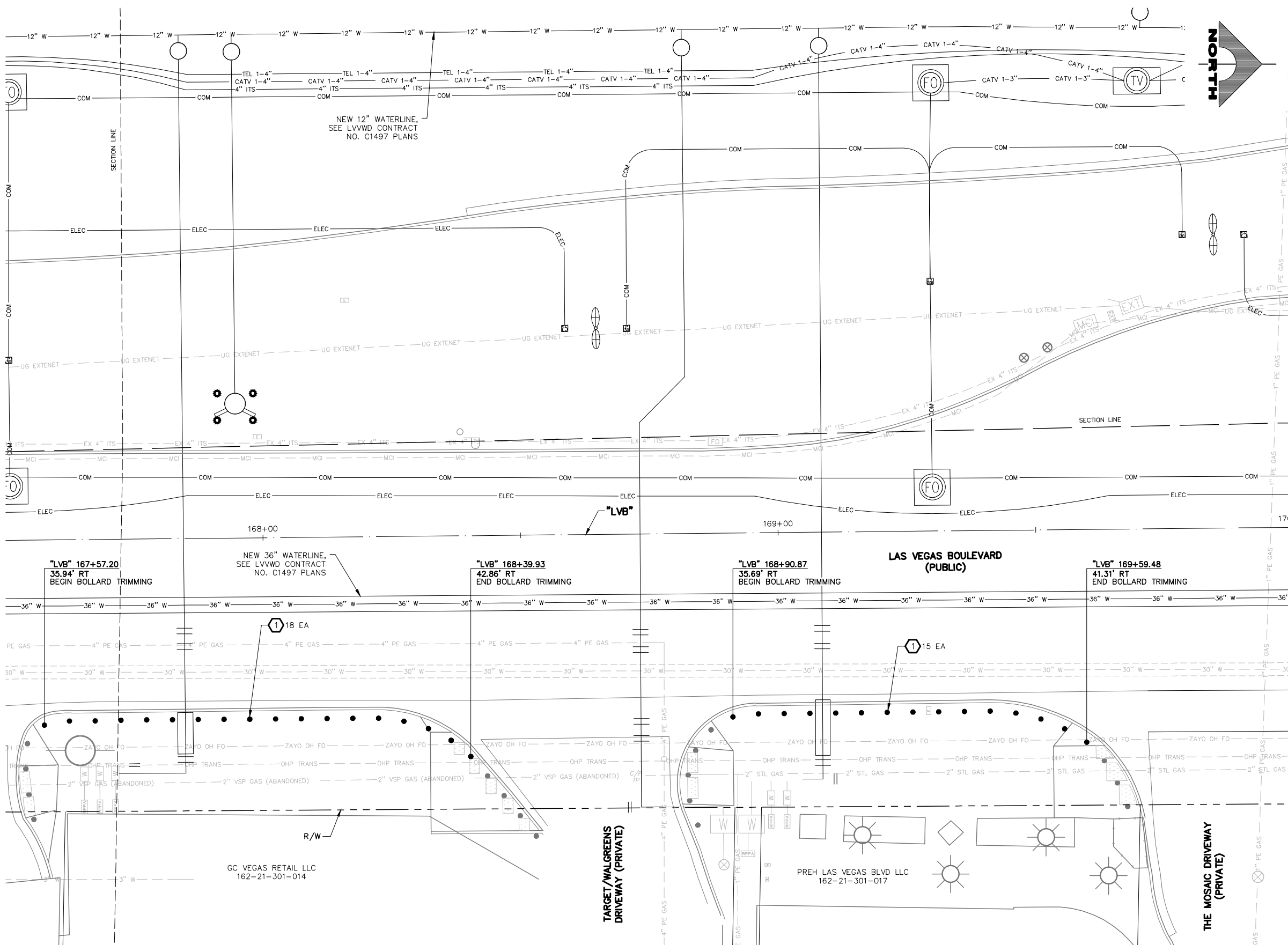
GCV
 ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **B-6**
 SHT. 49 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

F:\Projects\500-897-LV-EF\DWG\Production\LV_EF_07_B_Sheets.dwg



BOLLARD NOTES

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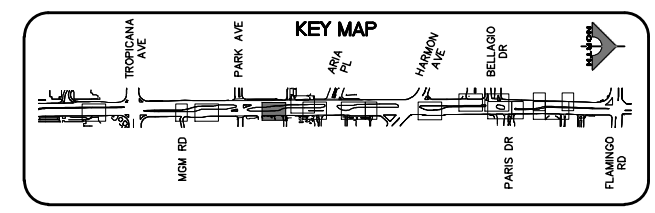
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APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

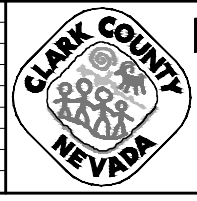


CALL BEFORE YOU DIG
 1-702-227-2929

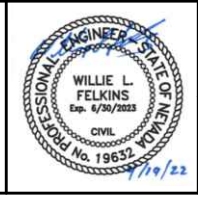
FAST
 Call before you UnderGround.
 1-702-901-8400

Call before you Dig
 811
 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
 "LVB" 167+50.00 TO "LVB" 170+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

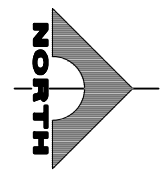
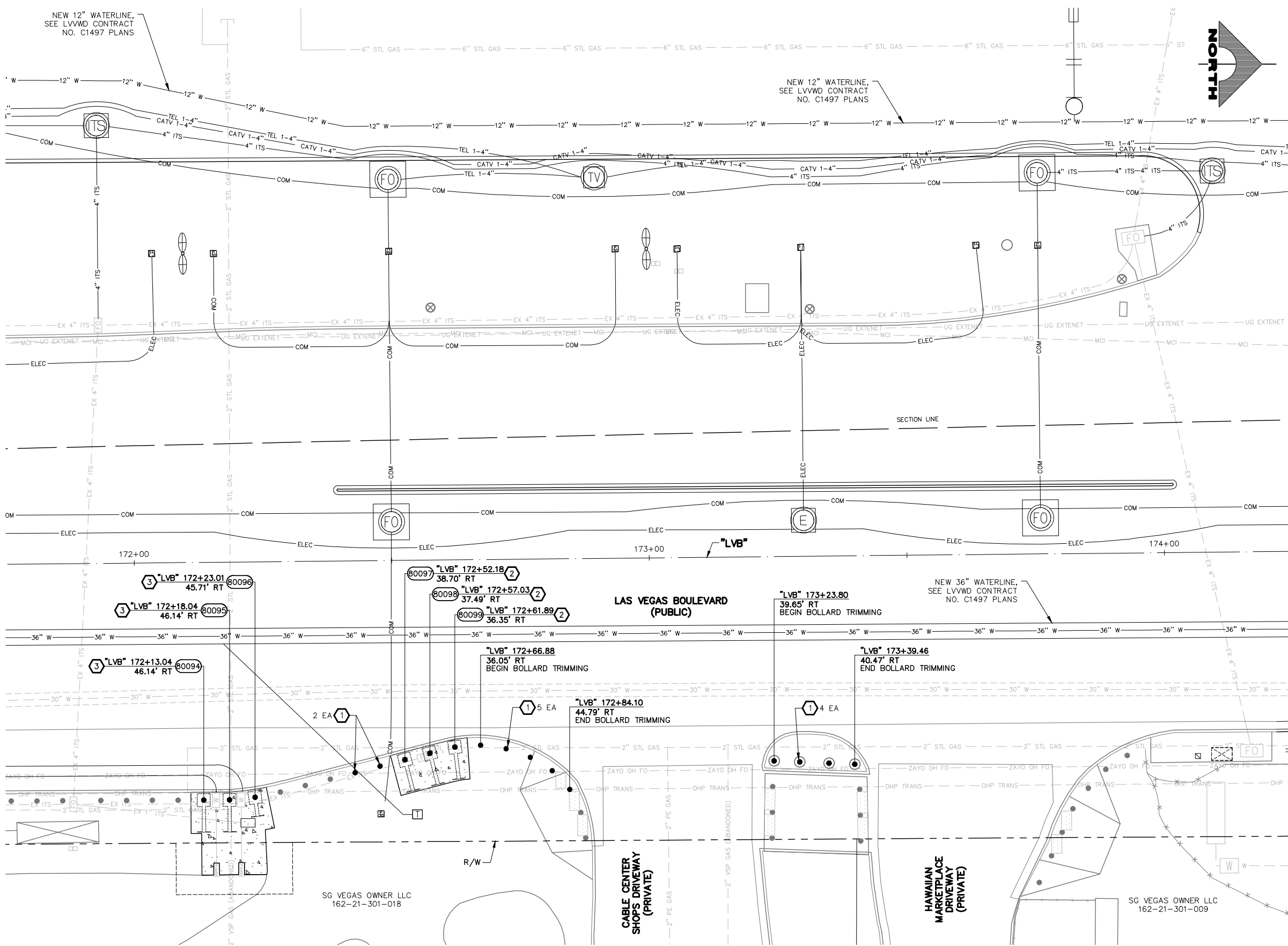


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-7
VERT: NONE	SHT. 50 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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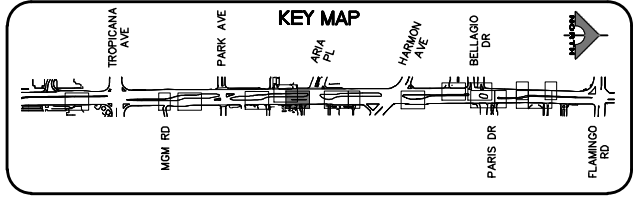
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APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

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CALL BEFORE YOU DIG
 AVOID HITTING OVERHEAD POWER LINES: IT'S COSTLY!
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FAST
Call before you UnderGround.
 1-702-901-8400
 FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
 Avoid cutting underground utility lines. It's costly.
Call 811
 1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
 "LVB" 171+75.00 TO "LVB" 174+25.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



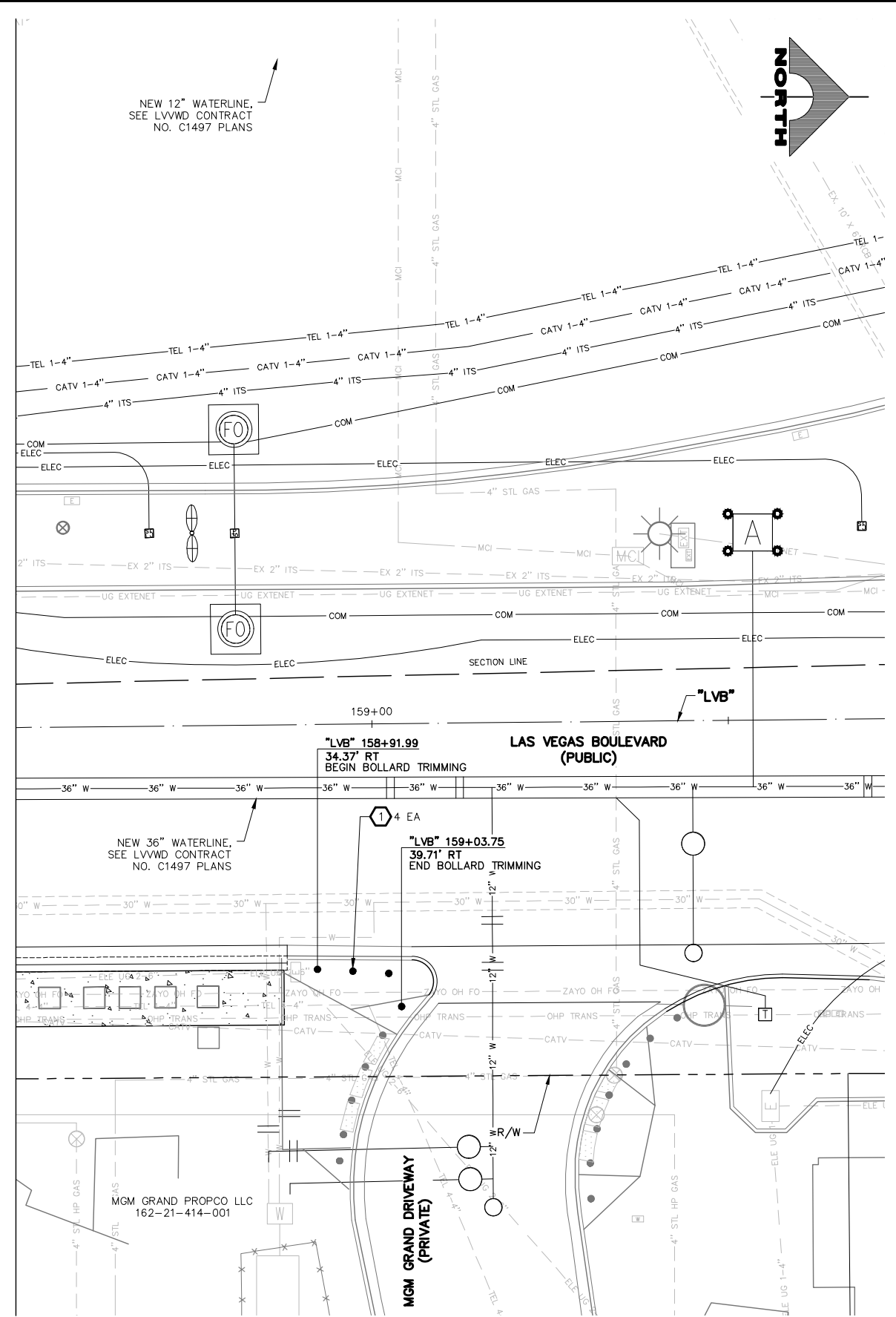
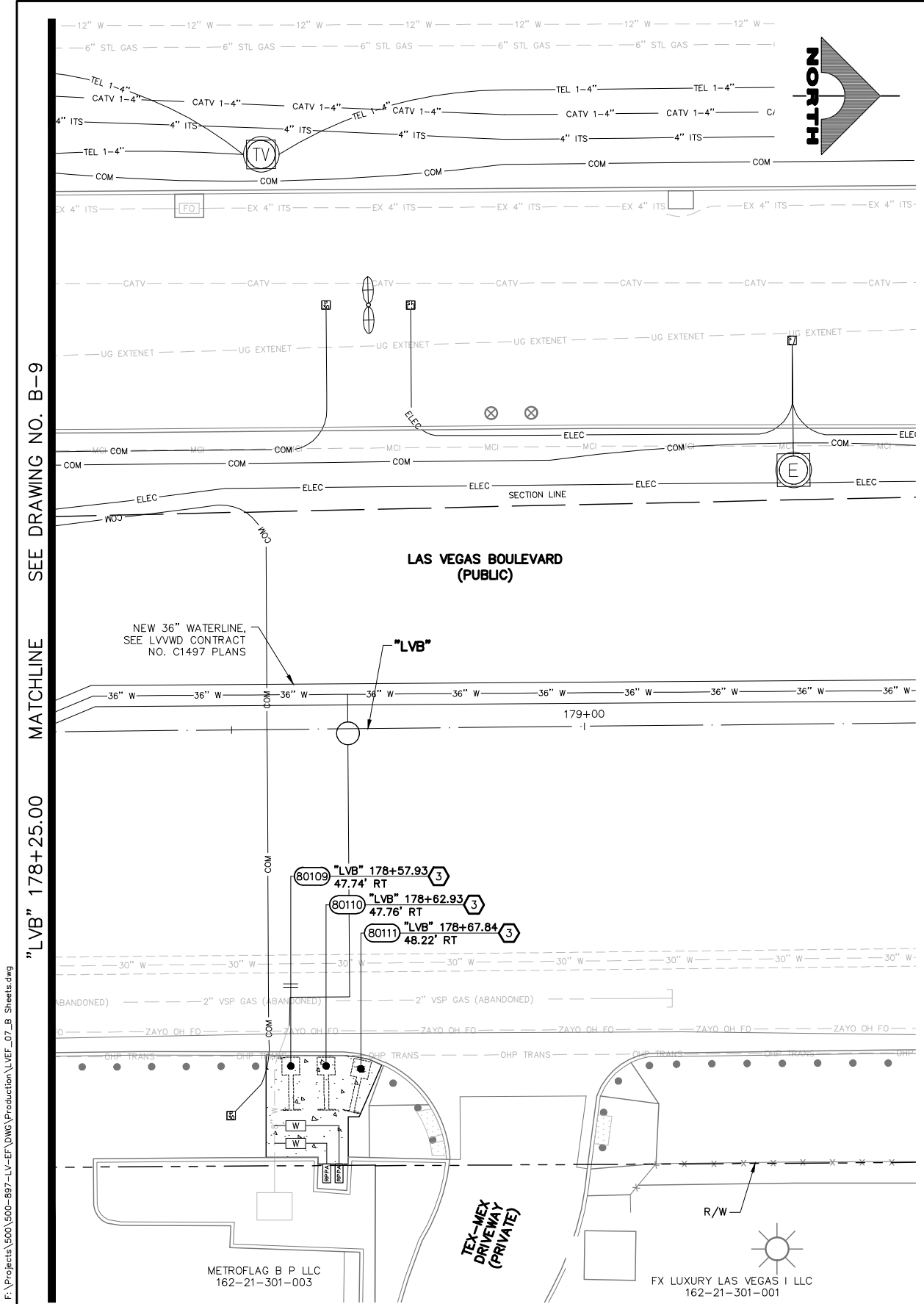
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

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. 51 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



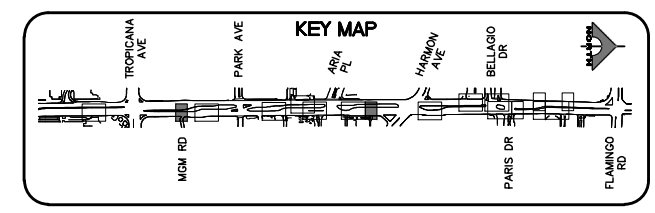
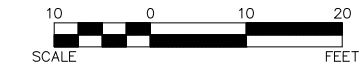
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CALL BEFORE YOU DO OVERHEAD

Avoid cutting overhead power lines. It's costly.

1-702-227-2929

FAST

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1-702-901-8400

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

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OR
1-800-642-2444

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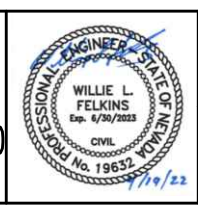
CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

BOLLARD PLAN

"LVB" 158+50.00 TO "LVB" 159+75.000 & "LVB" 178+25.00 TO "LVB" 179+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

GCV ENGINEERS SURVEYORS
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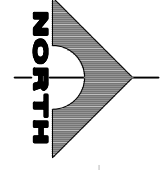
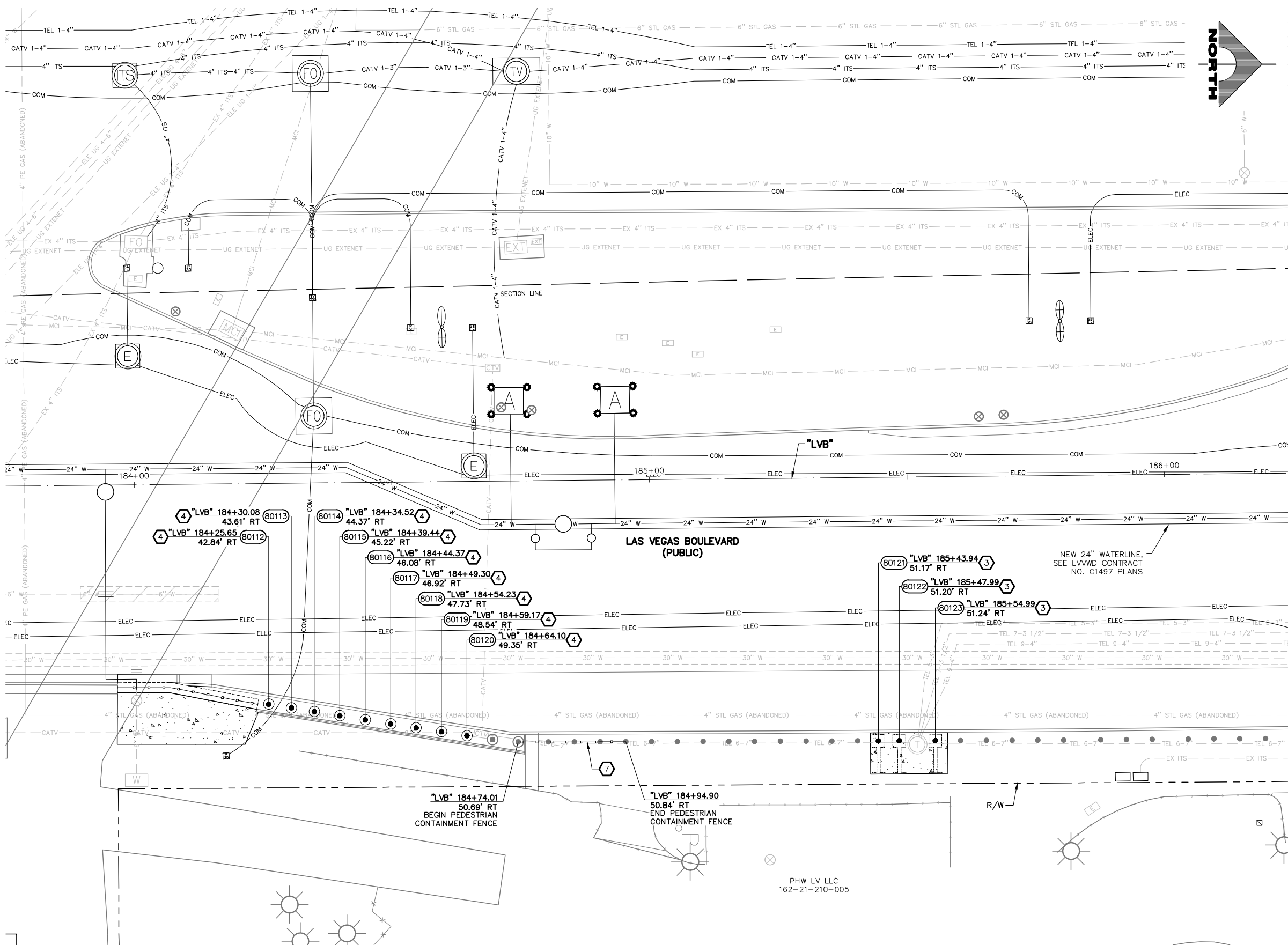
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DRAWING NO. **B-10**
 SHT. 53 OF 169
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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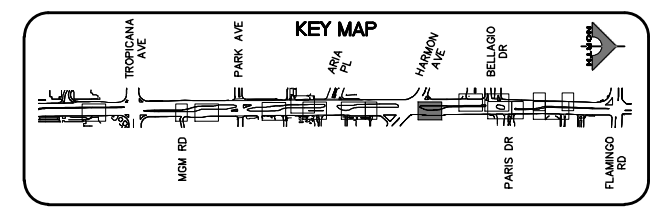
DIGITALLY SIGNED BY SRI KAMOJLA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

FROM BOLLARD 80112 TO 80123

ALL BOLLARDS SHALL BE POWDER COATED RAL9005



CALL BEFORE YOU DO OVERHEAD
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FAST
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 1-702-901-8400

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
"LVB" 183+75.00 TO "LVB" 186+25.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

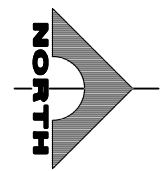
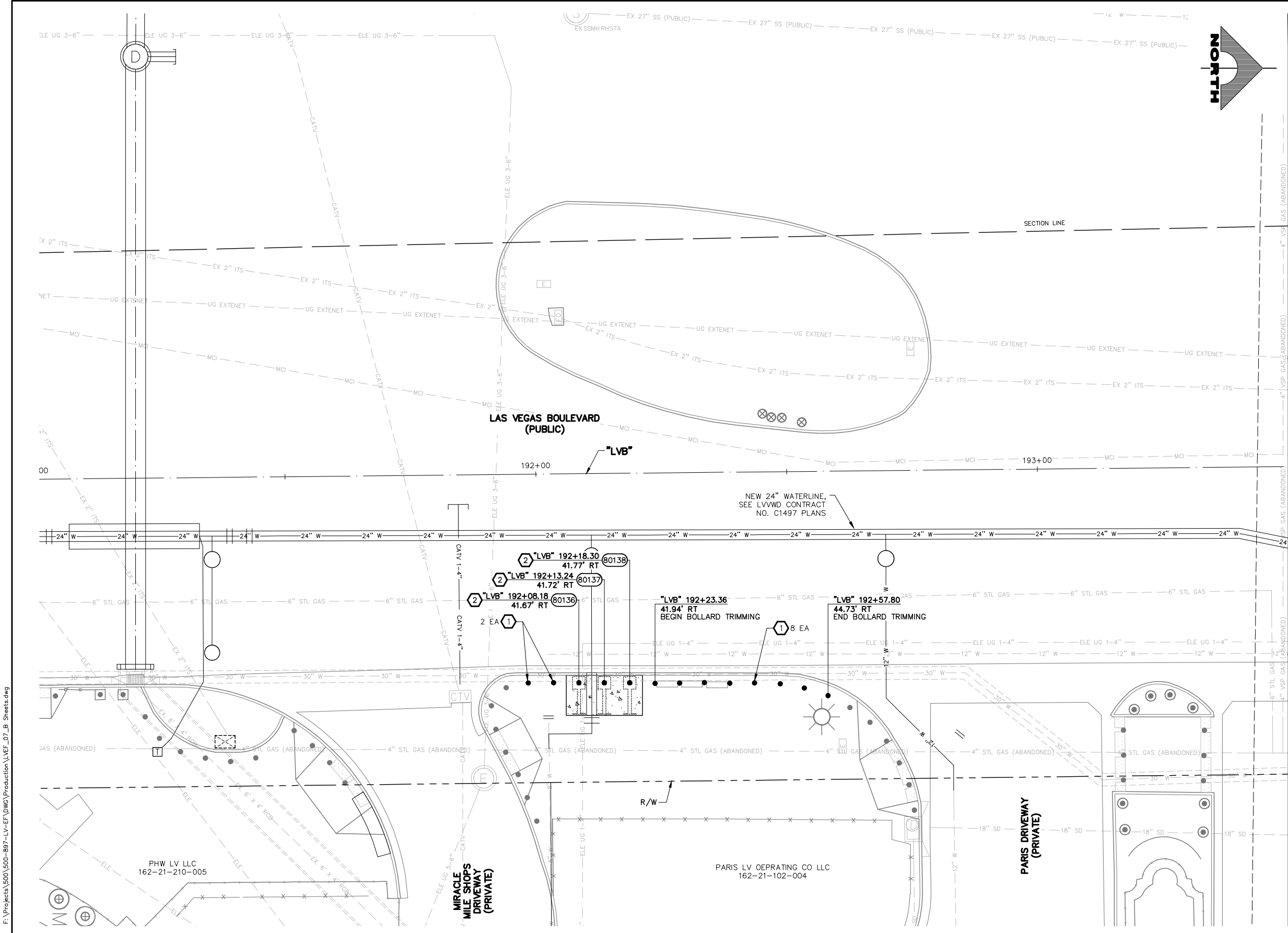


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-11
VERT: NONE	SHT. 54 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



SEE DRAWING NO. B-13 MATCHLINE "LVB" 193+50.00

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- 9 INSTALL 36-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
- 10 NOT USED
- 11 INSTALL 52-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
- 12 INSTALL 52-INCH HEIGHT DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
- P 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

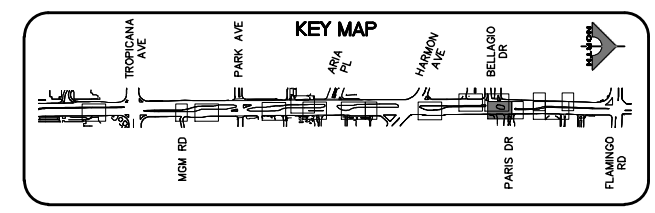
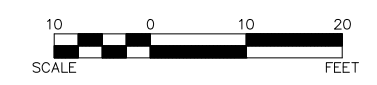
DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

FROM BOLLARD 80136 TO 80138

ALL BOLLARDS SHALL BE POWDER COATED RAL9005



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

FAST Call before you UnderGround.
 1-702-901-8400
 FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
 Avoid cutting underground utility lines. It's costly.
Call 811
 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
 "LVB" 191+00.00 TO "LVB" 193+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



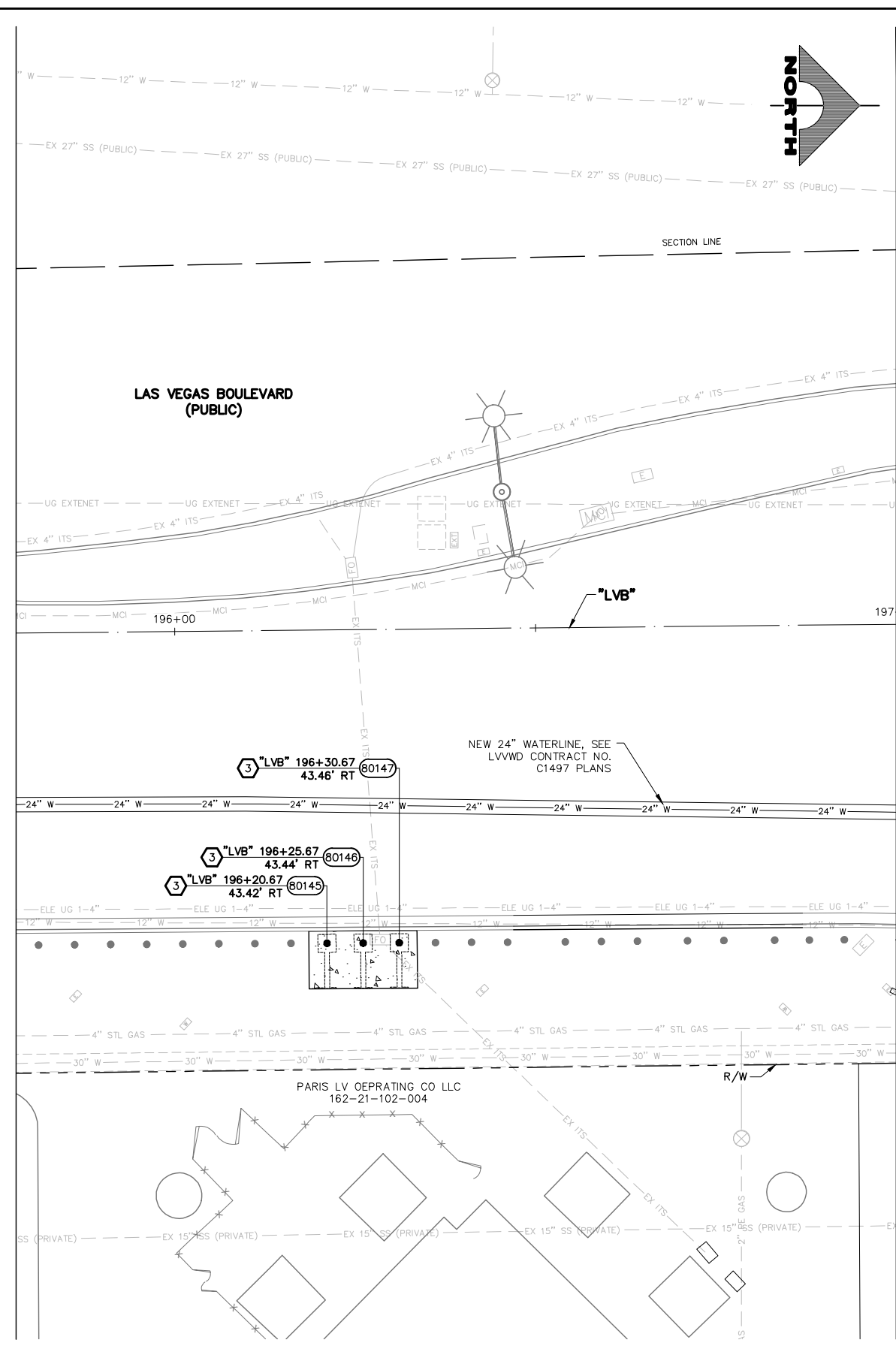
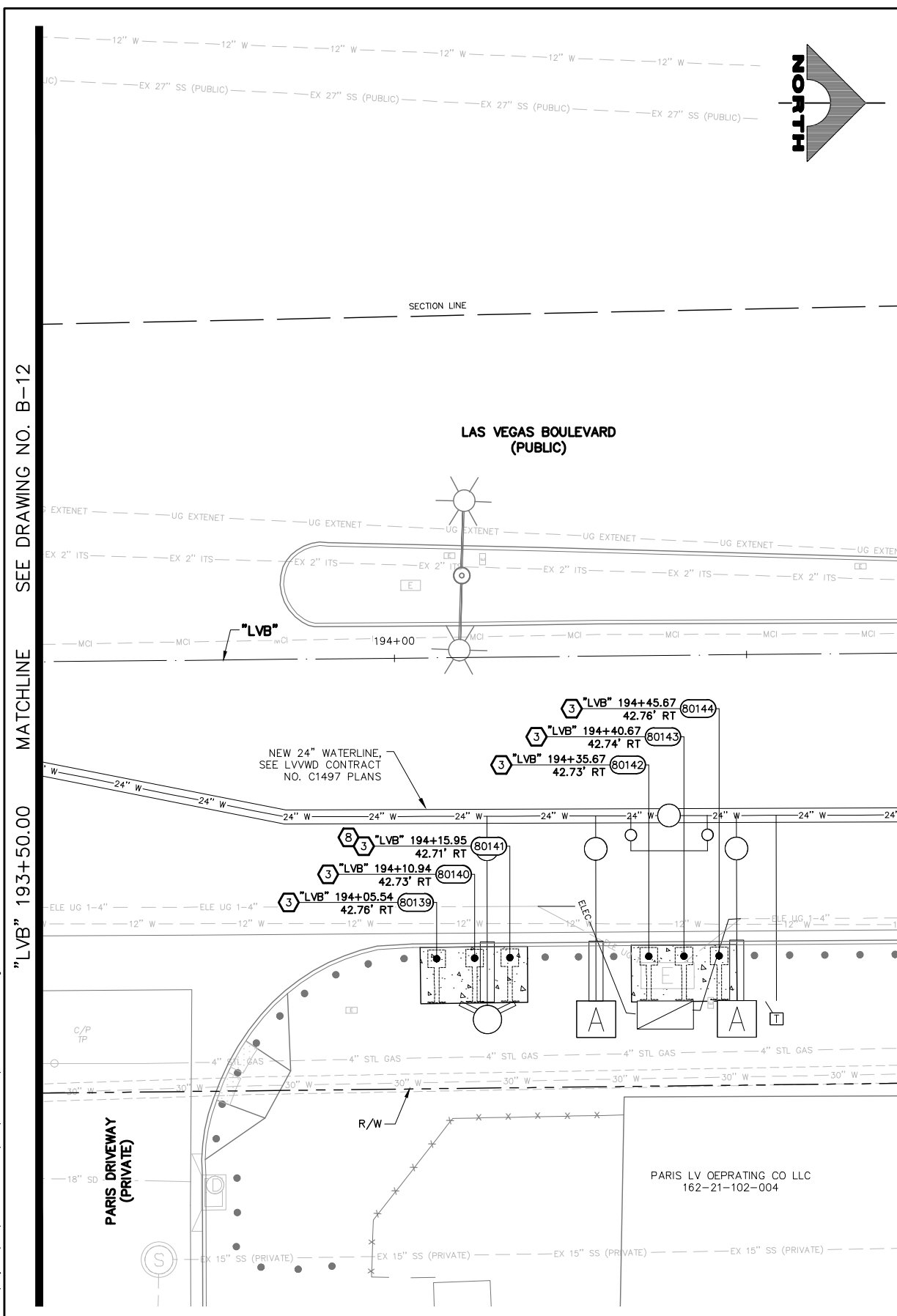
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-12
VERT: NONE	SHT. 55 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

F:\Projects\500\500-897-LV-EF\DWG\Production\LV_EF_07_Sheets.dwg



- ### BOLLARD NOTES
- 1 TRIM BOLLARD TO 36-INCH HEIGHT (SEE DETAIL C, DWG. DT-5)
 - 2 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
 - 3 INSTALL 48-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
 - 4 INSTALL 48-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
 - 5 INSTALL 52-INCH HEIGHT TRENCH BOLLARD (SEE DETAIL B, DWG. DT-4)
 - 6 NOT USED
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 - P PROTECT-IN-PLACE
- ### NOTES
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APPROVED FOR CONSTRUCTION

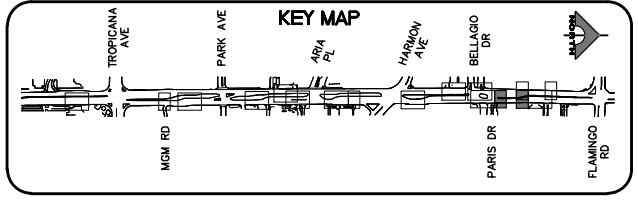
DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

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FROM BOLLARD 80139 TO 80147

ALL BOLLARDS SHALL BE POWDER COATED RAL9005



CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

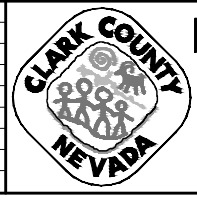
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Call 811

OR 1-800-642-2444

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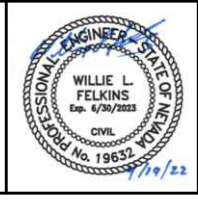


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

BOLLARD PLAN

"LVB" 193+50.00 TO "LVB" 194+75.00 & "LVB" 195+75.00 TO "LVB" 197+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

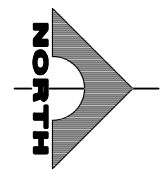
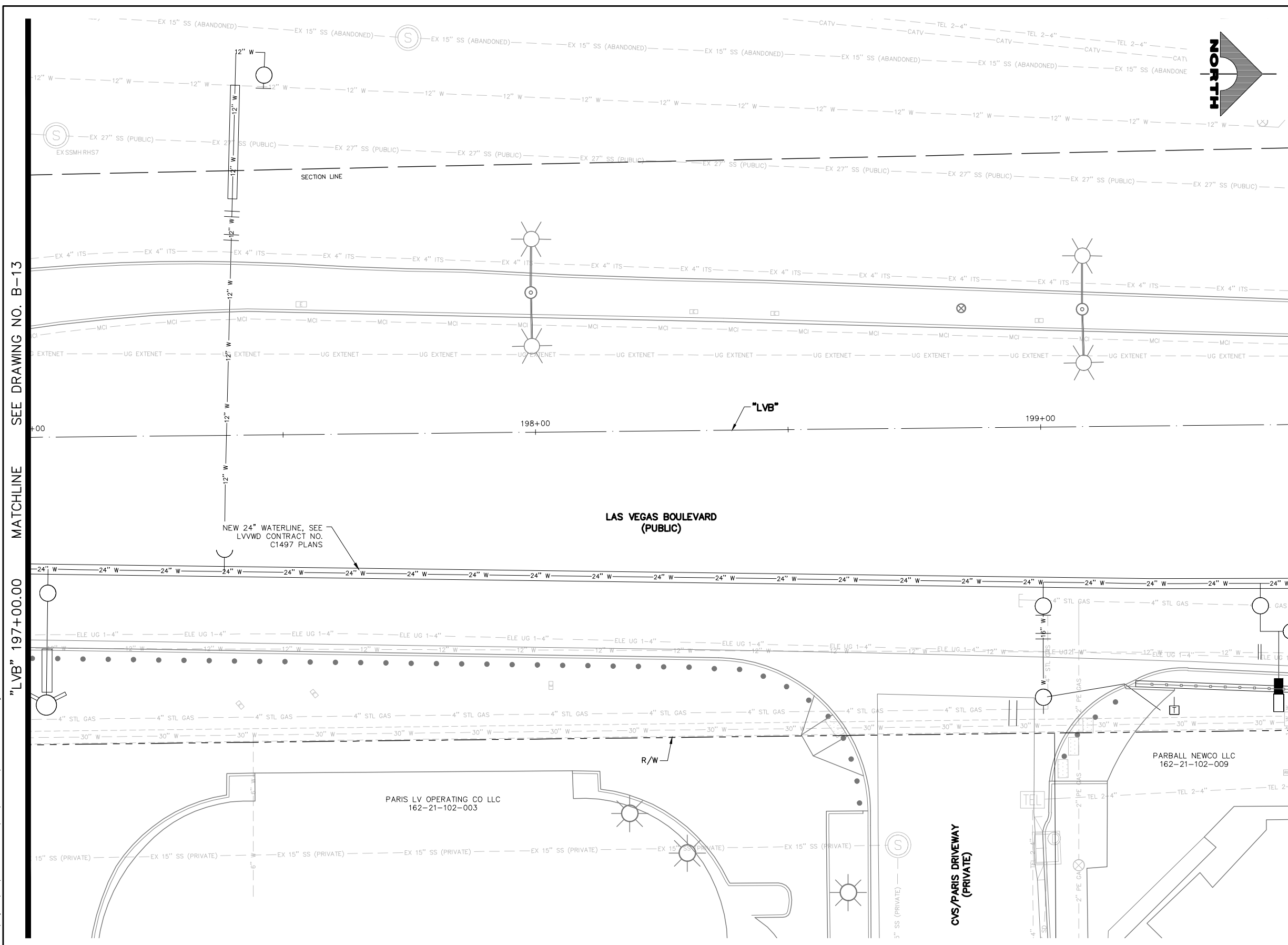
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-13
VERT: NONE	SHT. 56 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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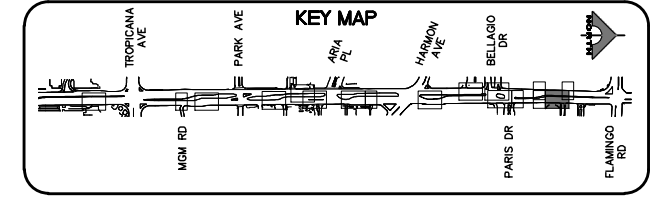
- BOLLARD NOTES**
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APPROVED FOR CONSTRUCTION

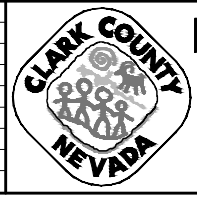
DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

SOUTHWEST GAS VALVE NOTE

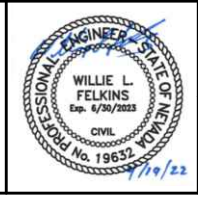
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
BOLLARD PLAN
"LVB" 197+00.00 TO "LVB" 199+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



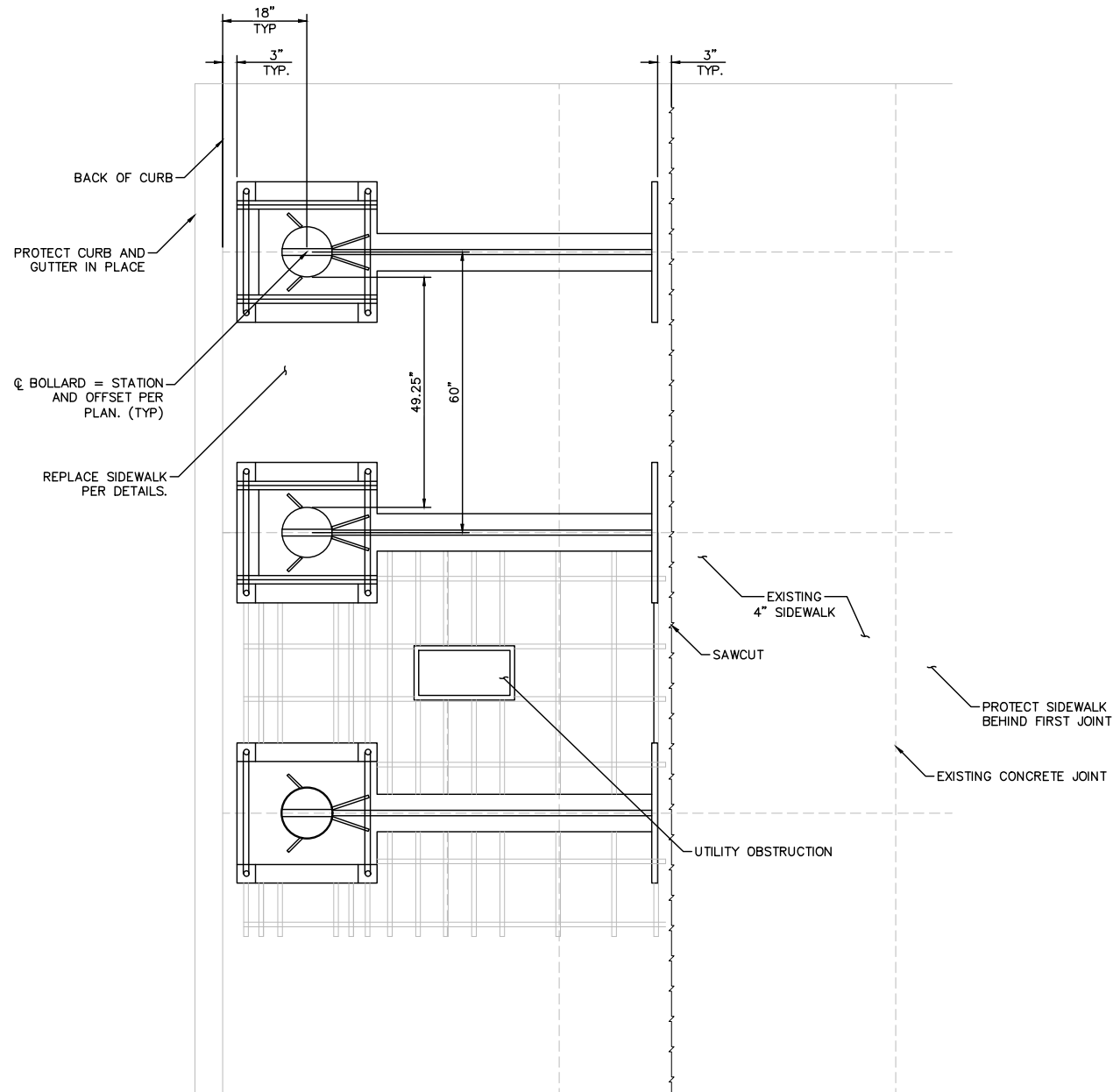
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

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SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-14
VERT: NONE	SHT. 57 OF 169
FIELD BOOK	L-2304

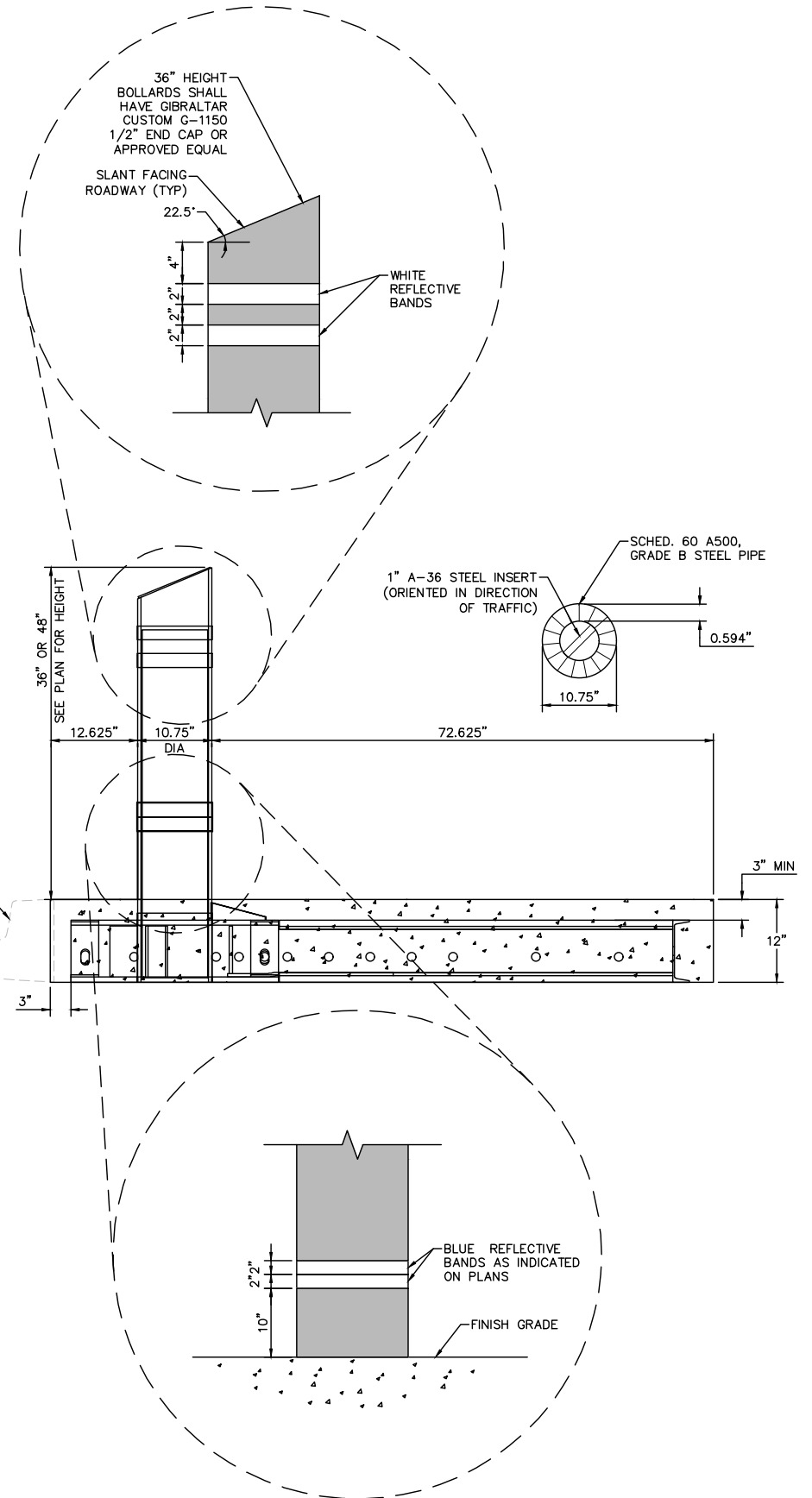
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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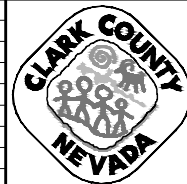
NOTES:

1. EACH BOLLARD SHALL BE POWDER COATED, COLOR - RAL6009 METALLIC UNLESS OTHERWISE NOTED.
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 A ON DRAWING DT-2 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.

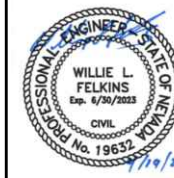


SHALLOW MOUNT BOLLARD
TYPICAL INSTALLATION AND FINISH

A
DT-1



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

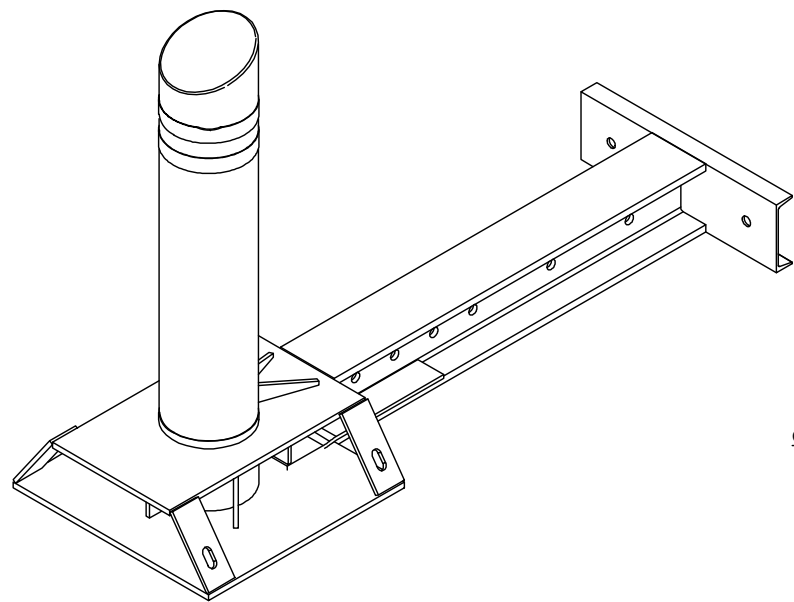


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
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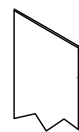
SCALE	DRAWING NO.
HORIZ: NONE	DT-1
VERT: NONE	SHT. 58 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

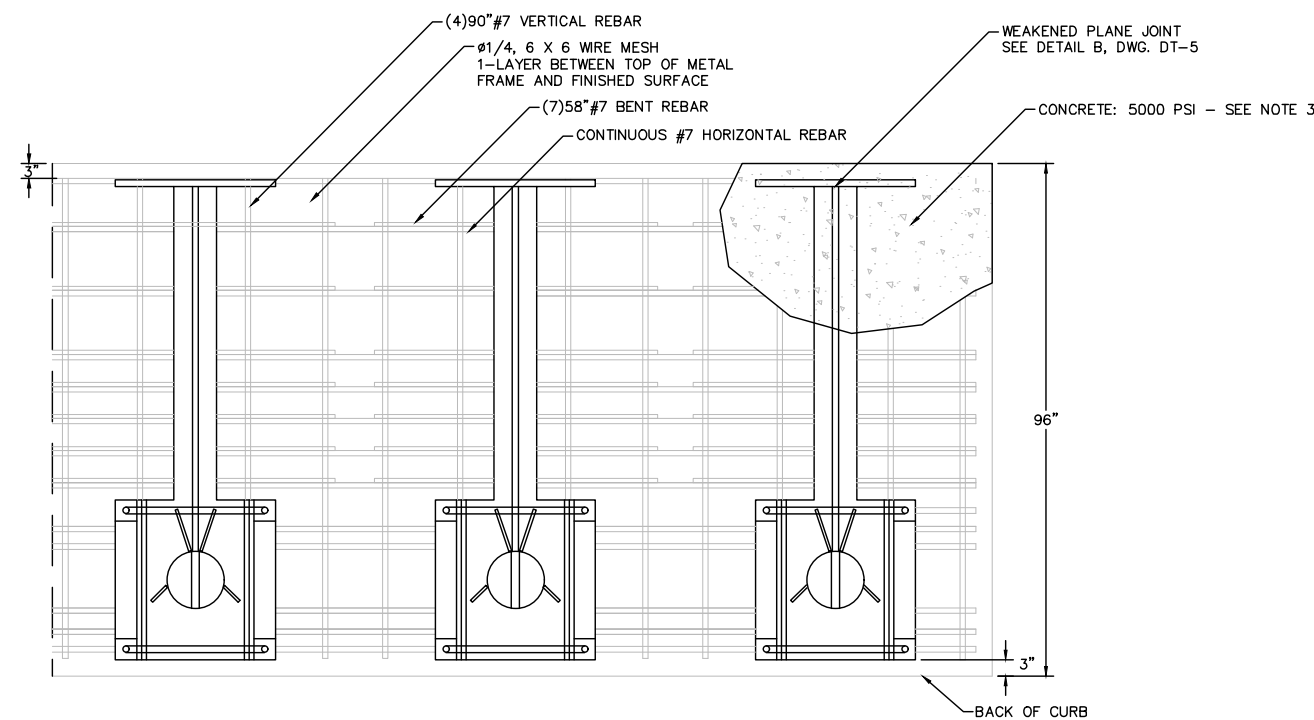
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



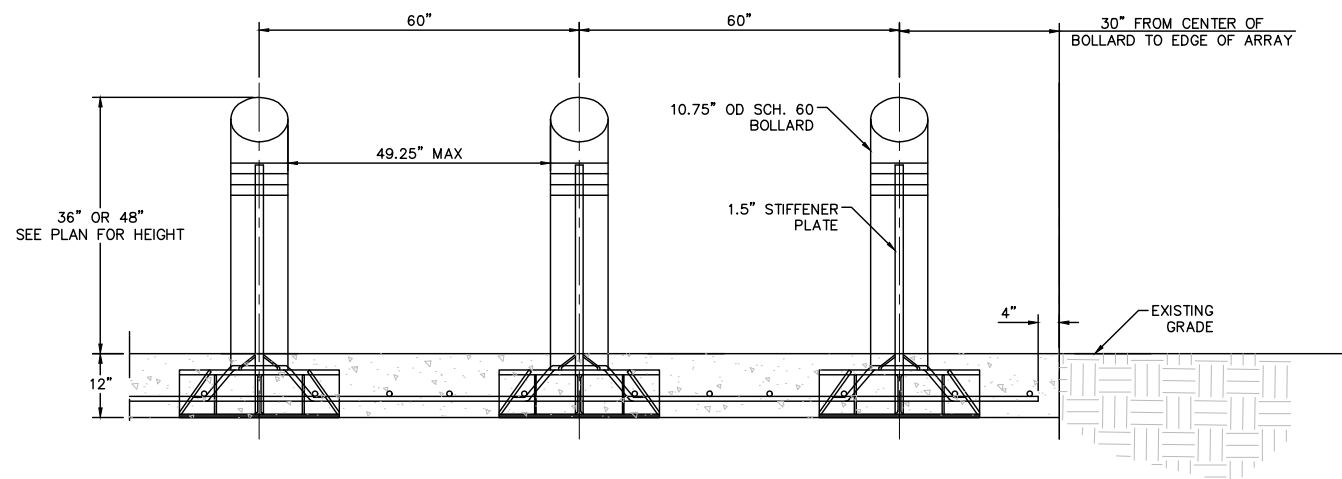
CAP STYLE



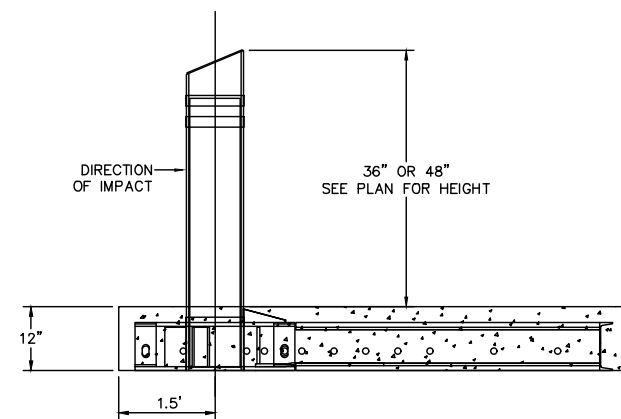
CAP SHALL BE MONOLITHIC WITH BOLLARD.
36" HEIGHT BOLLARDS SHALL HAVE
GIBRALTAR CUSTOM G-1150 1/2" END CAP
OR APPROVED EQUAL.



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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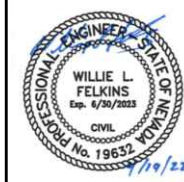
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

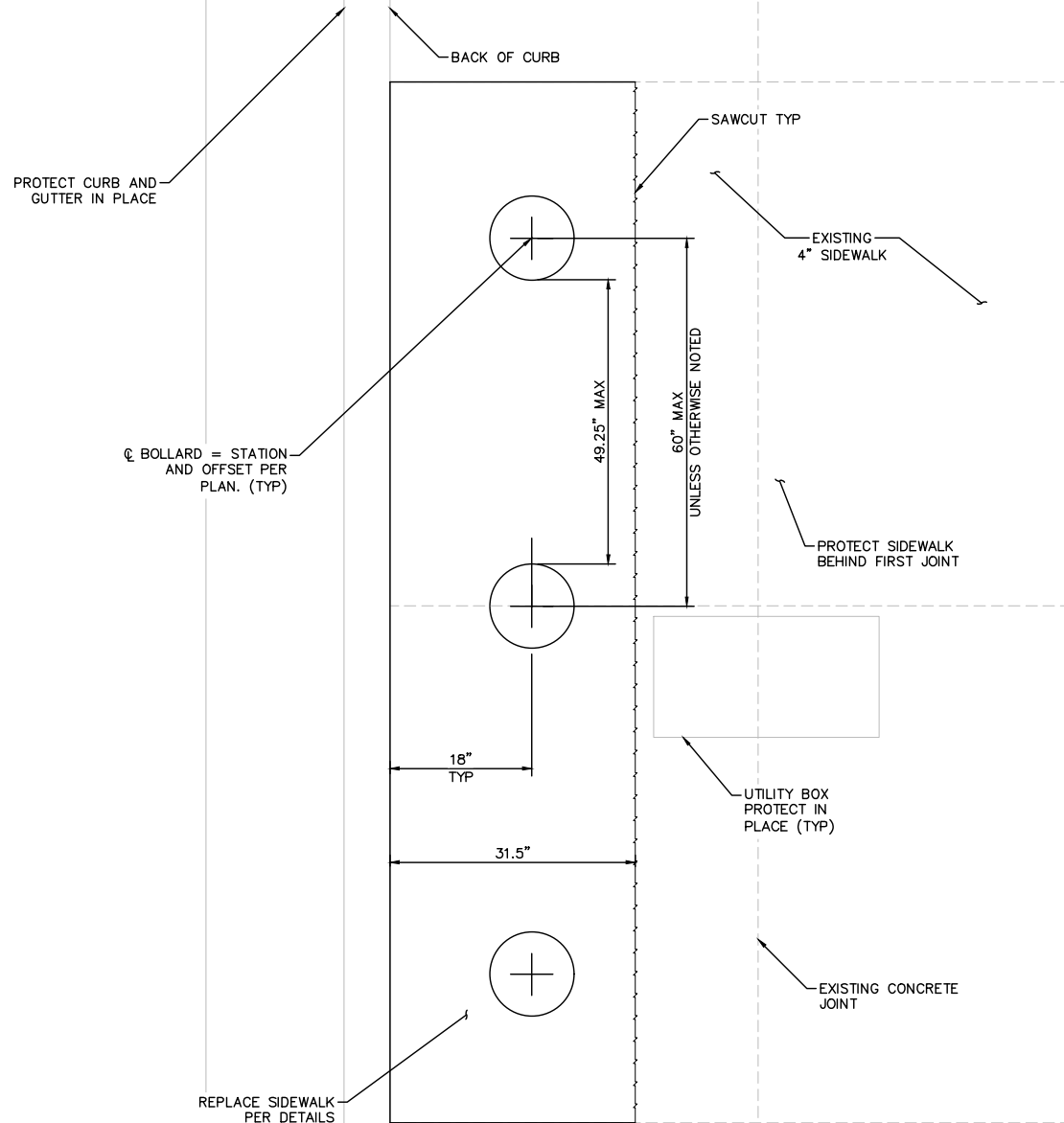
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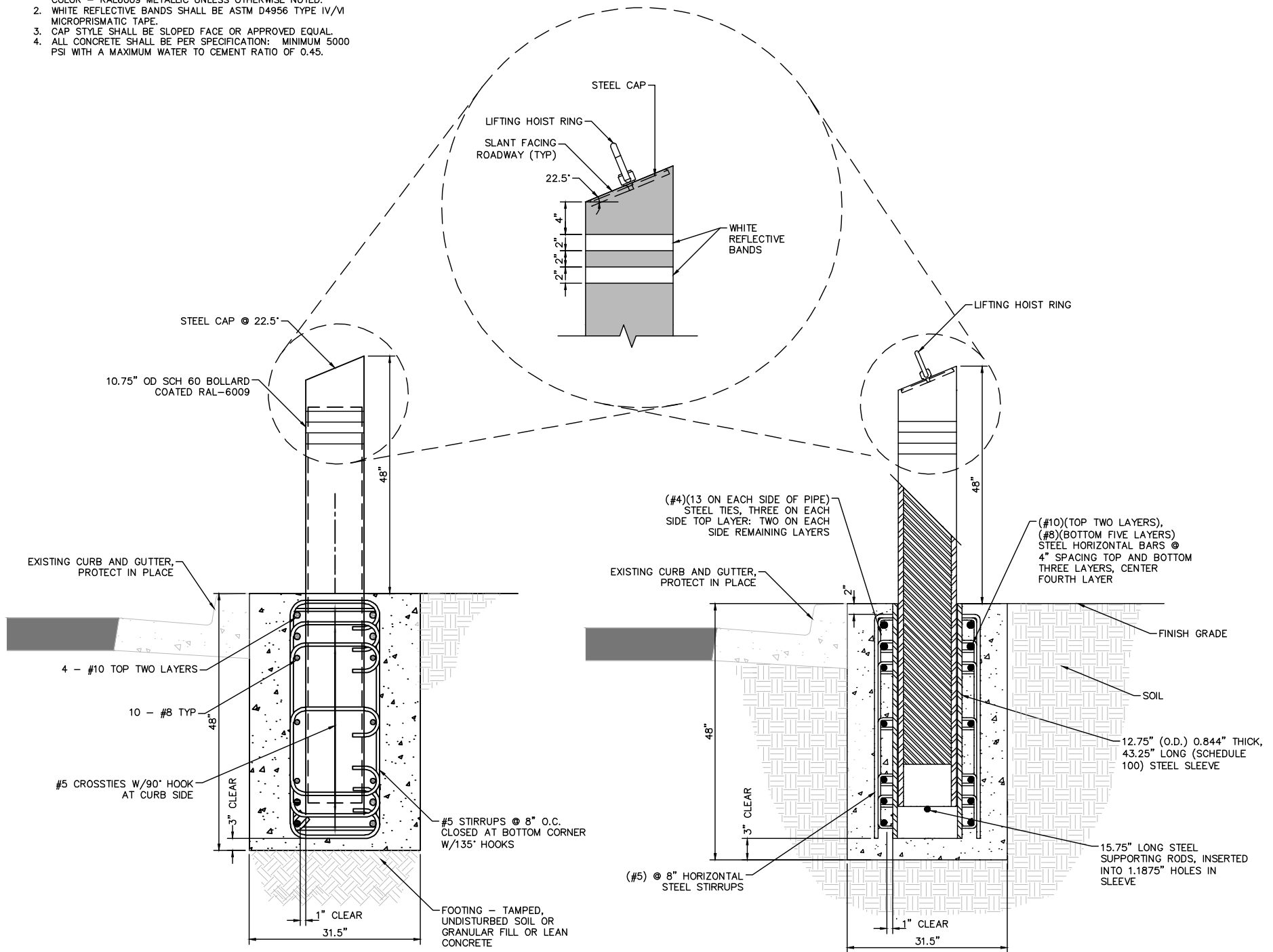
SCALE	DRAWING NO.
HORIZ: NONE	DT-2
VERT: NONE	SHT. 59 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

- NOTES:**
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 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 AND REMOVABLE BOLLARD PLAN VIEW



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

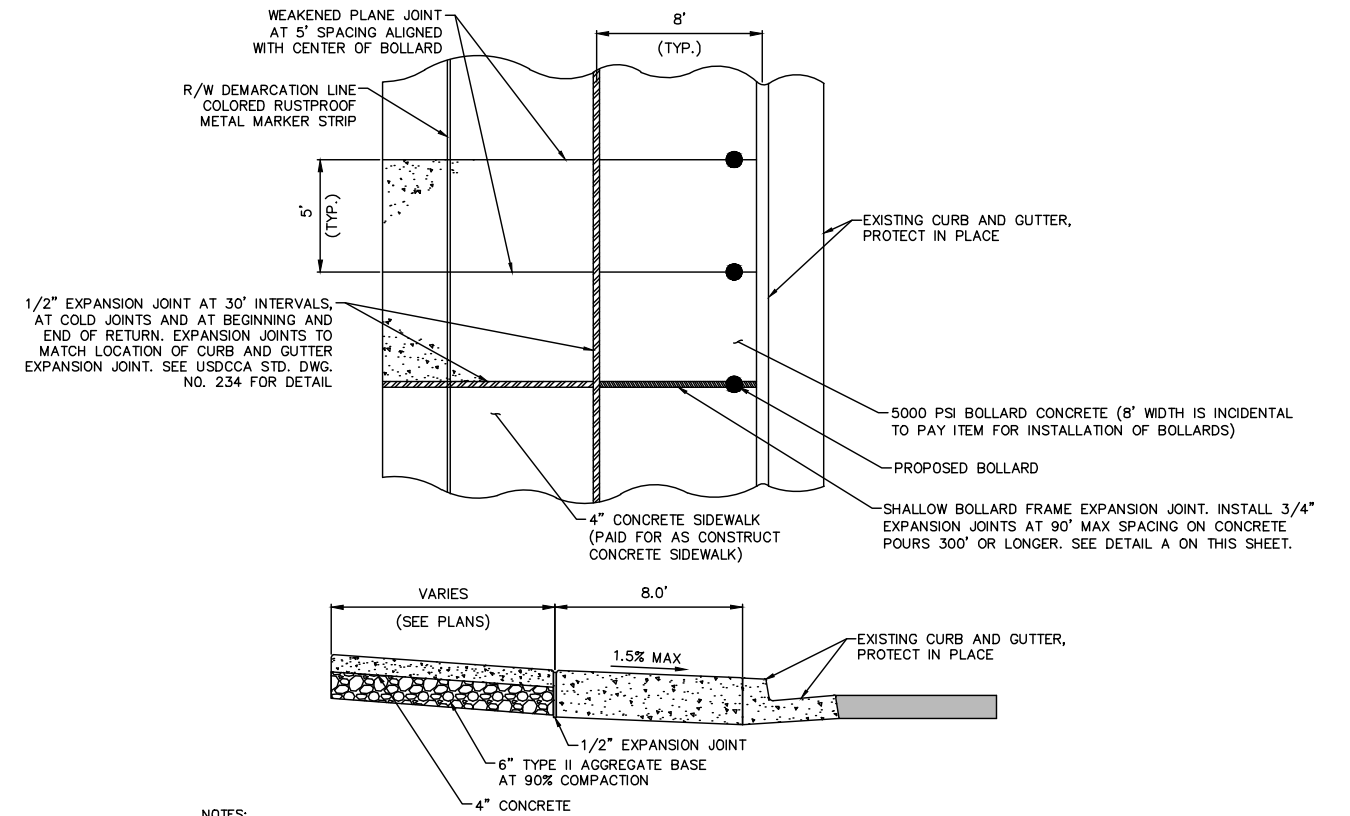
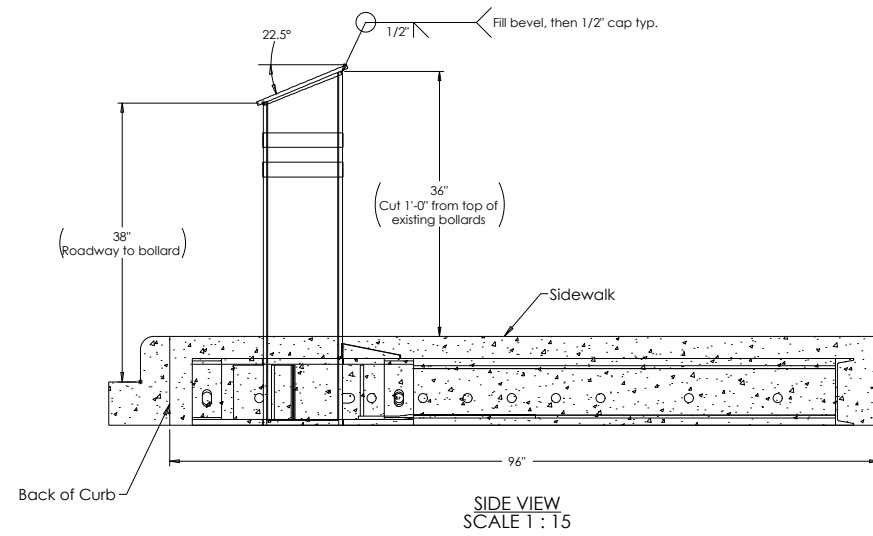
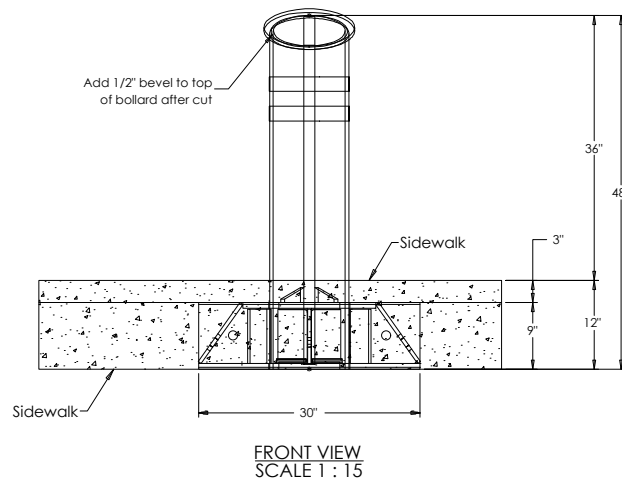


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
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SCALE	DRAWING NO.
HORIZ: NONE	DT-4
VERT: NONE	SHT. 61 OF 169
FIELD BOOK	L-2304

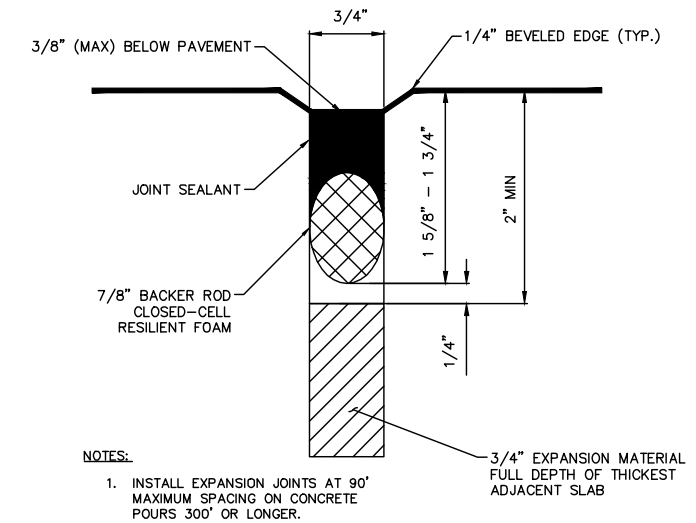


NOTES:

- 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

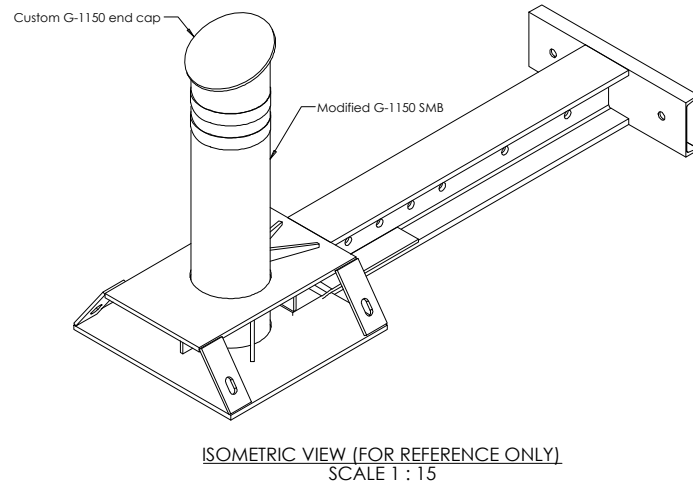


NOTES:

- INSTALL EXPANSION JOINTS AT 90' MAXIMUM SPACING ON CONCRETE POURS 300' OR LONGER.
- 3/4" EXPANSION MATERIAL FULL DEPTH OF THICKEST ADJACENT SLAB

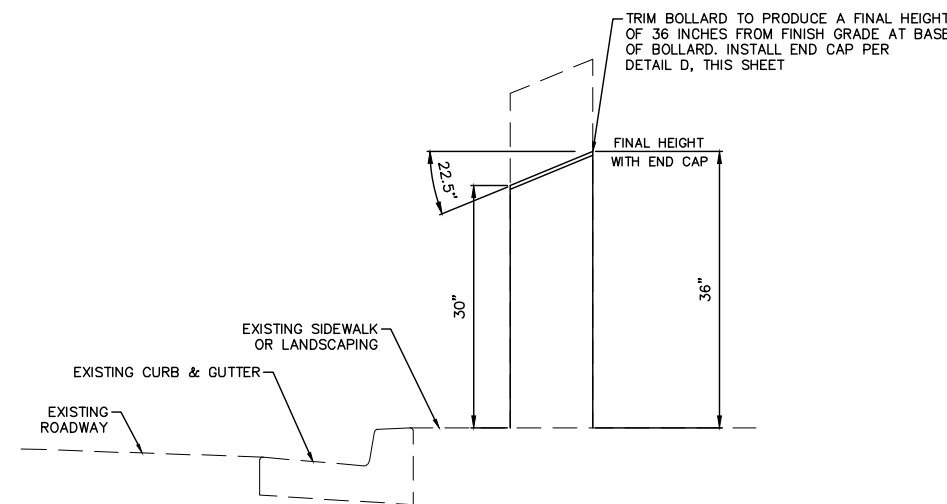
SHALLOW BOLLARD FRAME EXPANSION JOINT
TYPICAL INSTALLATION AND FINISH

A
DT-5



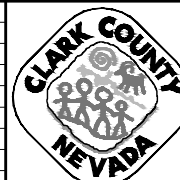
G-1150 MODIFIED BOLLARD DETAIL
NOT TO SCALE

D
DT-5

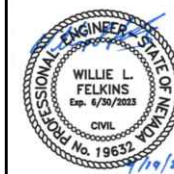


C
DT-5

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GIBALTAR. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GIBALTAR IS PROHIBITED.				PRODUCT: G-1150 Shallow Foundation Bollard	SHEET DESCRIPTION: G-1150 Modified Bollard Detail
REV #	DESCRIPTION:	DRAWN BY:	APPD BY:	DATE:	PROJECT: Clark County
1	Issued for submittal approval	KW	JP	08/02/2019	SCALE: 1:15 SHEET: 1 OF 1 DWG # 1150-LVMOD-SB



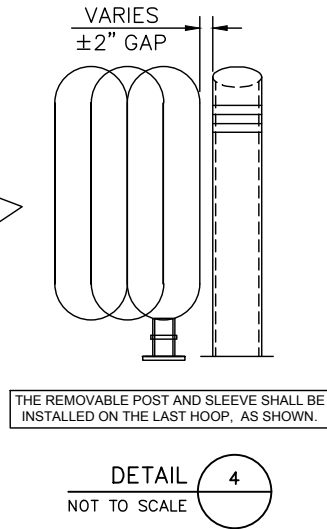
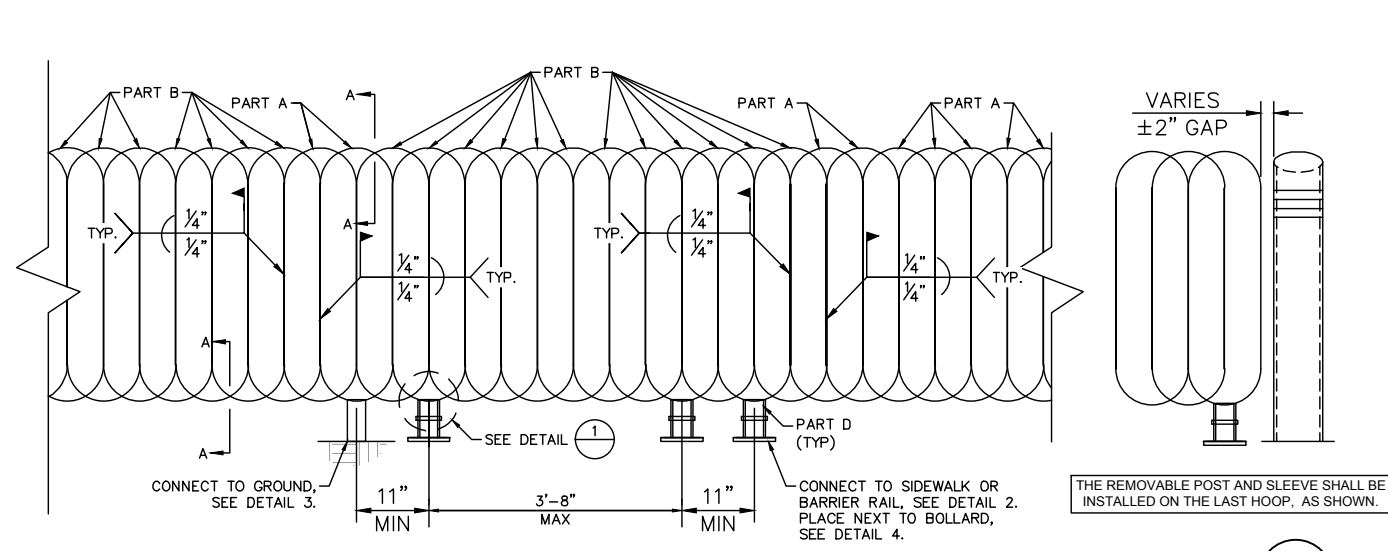
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
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	DT-5
VERT: NONE	SHT. 62 OF 169
FIELD BOOK	L-2304

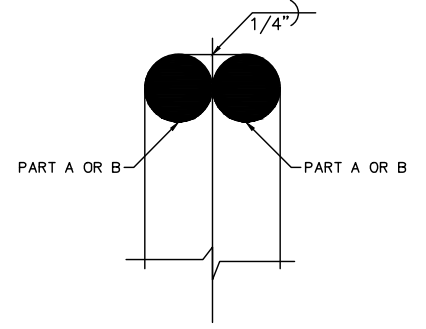
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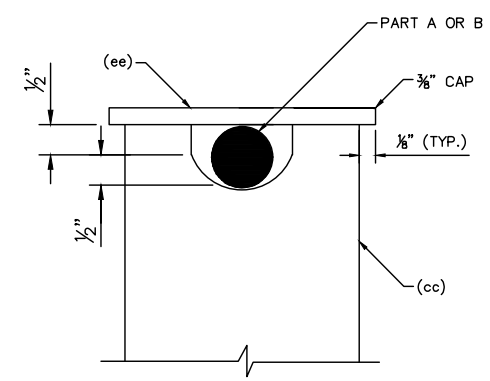
TYPICAL ASSEMBLY
NOT TO SCALE

NOTES

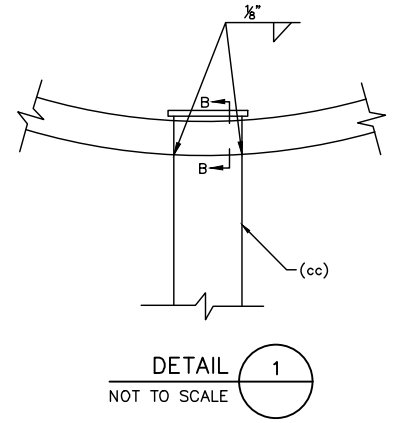
1. PEDESTRIAN CONTAINMENT SYSTEM TO BE POWDER COATED. COLOR TO MATCH EXISTING. CCPW TO APPROVE COLOR.
2. EPOXY SHALL BE SIMPSON SET-XP EPOXY-TIE ADHESIVE PER ICC ESR-2508 OR APPROVED EQUAL.



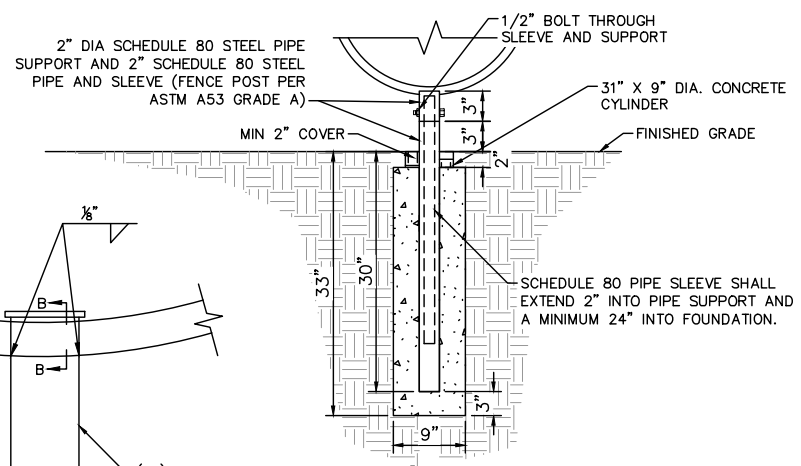
SECTION A-A
NOT TO SCALE



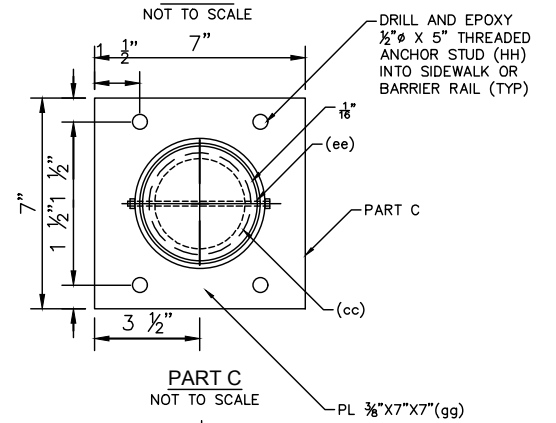
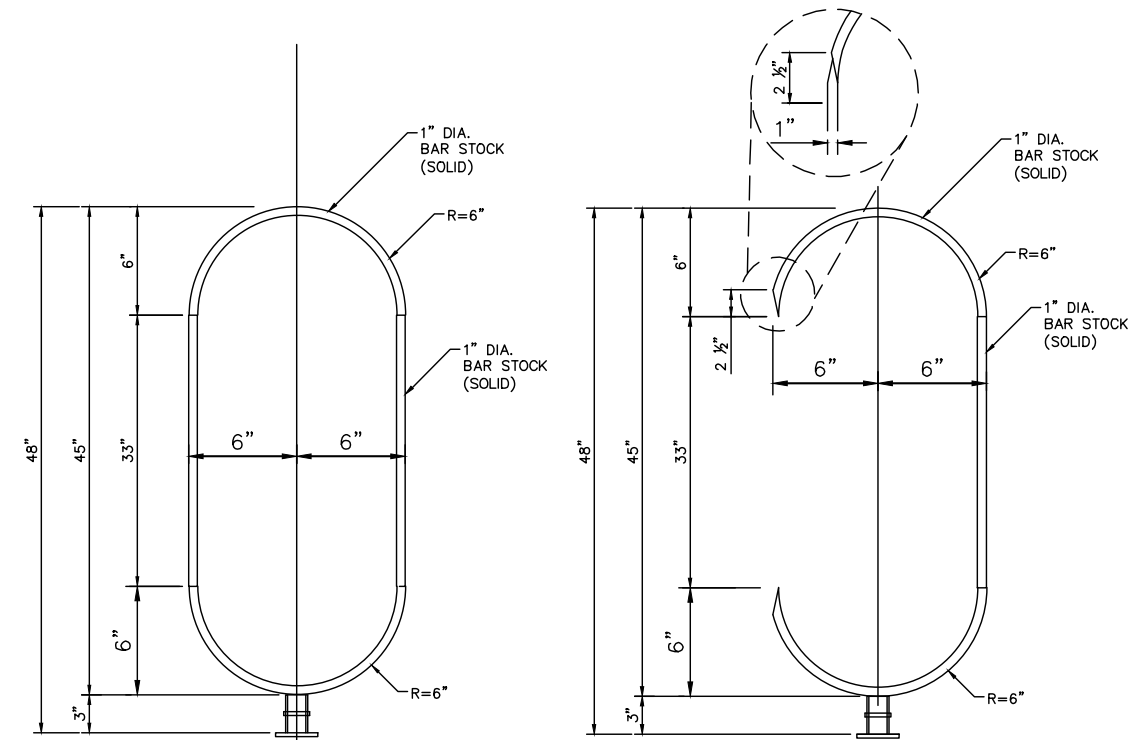
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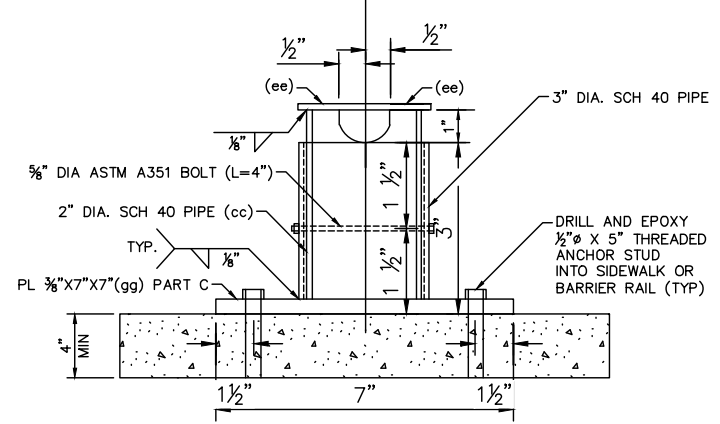
DETAIL 1
NOT TO SCALE



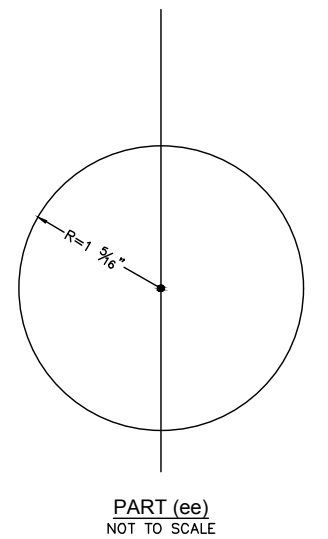
DETAIL 3
NOT TO SCALE



PART C
NOT TO SCALE



PART D
NOT TO SCALE



PART (ee)
NOT TO SCALE

PEDESTRIAN CONTAINMENT FENCE
TYPICAL INSTALLATION AND FINISH

A
DT-6



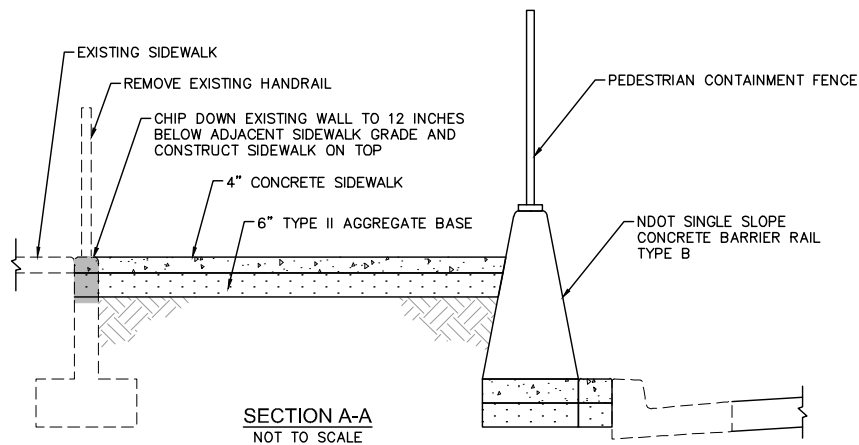
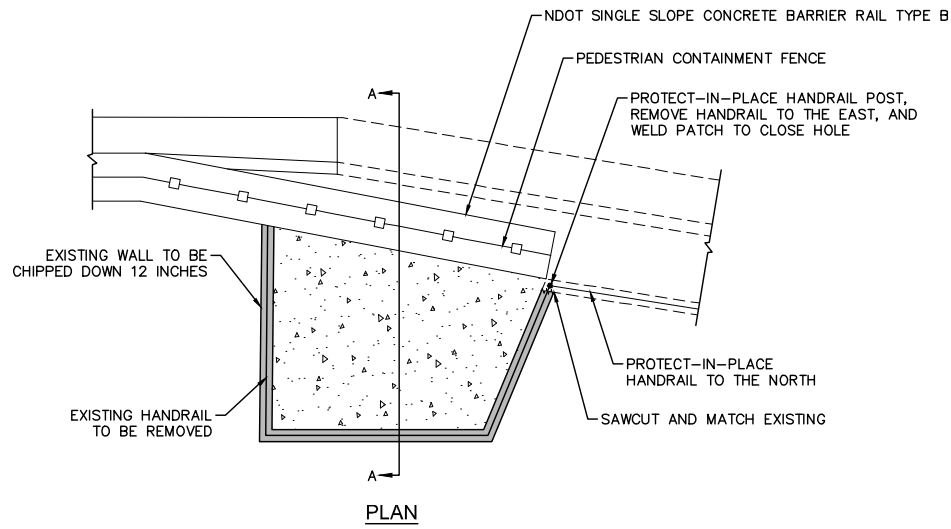
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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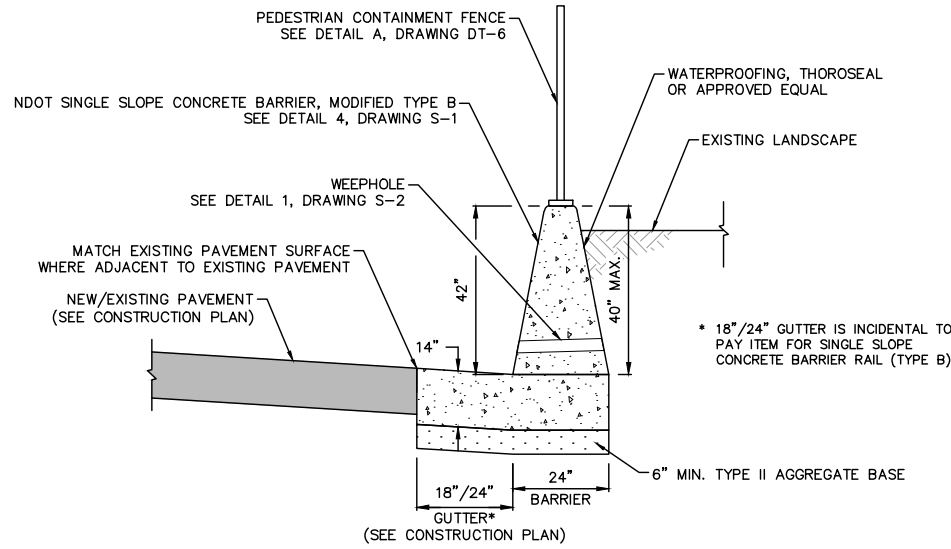
SCALE	DRAWING NO.
HORIZ: NONE	DT-6
VERT: NONE	SHT. 63 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



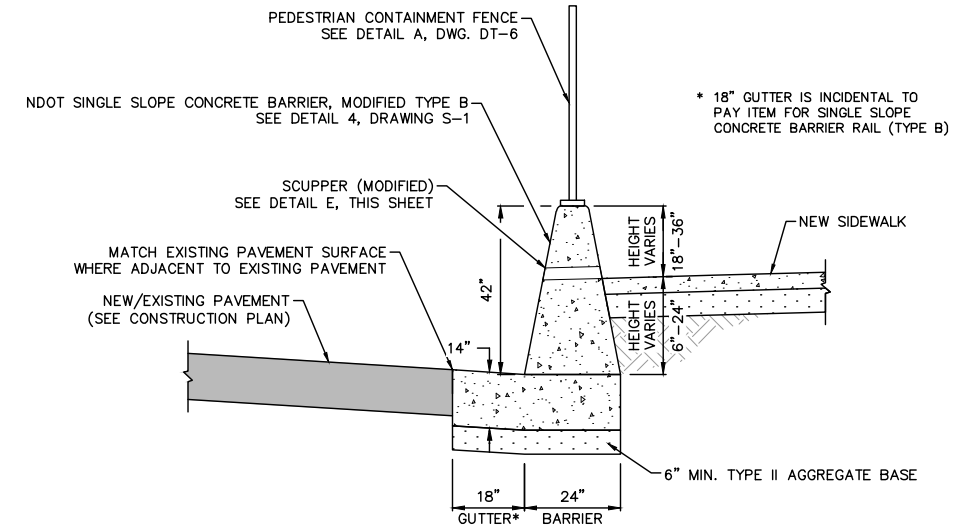
WALL REMOVAL DETAIL
NOT TO SCALE

F
DT-7



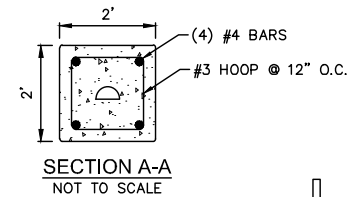
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) ADJACENT TO EXISTING PLANTER
NOT TO SCALE

D
DT-7

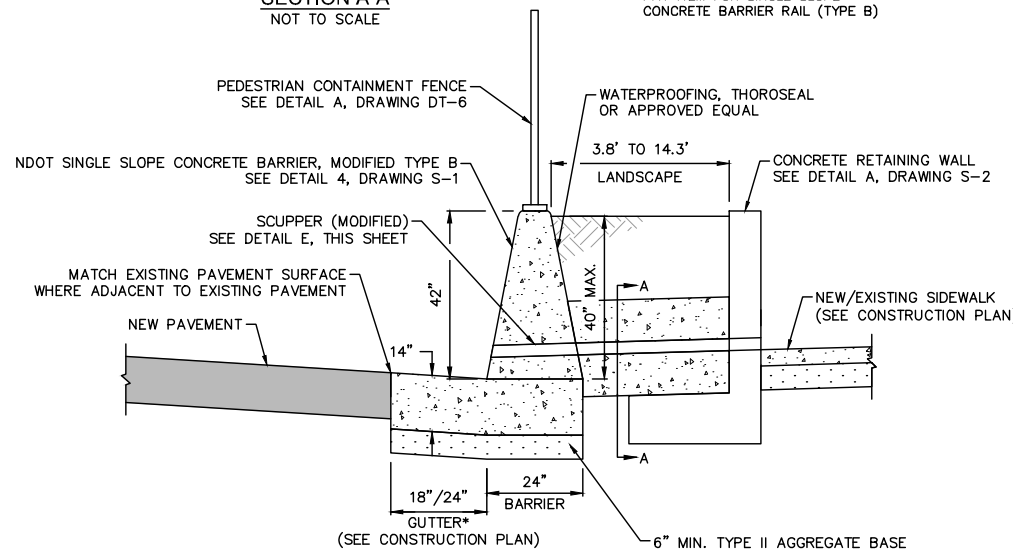


SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT HARMON AVE NEC
NOT TO SCALE

B
DT-7

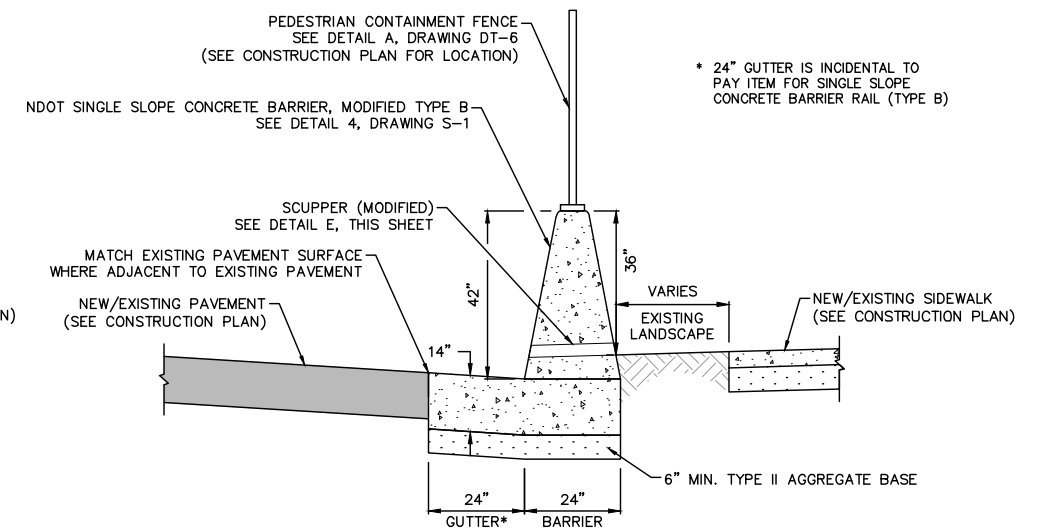


* 18"/24" GUTTER IS INCIDENTAL TO PAY ITEM FOR SINGLE SLOPE CONCRETE BARRIER RAIL (TYPE B)



SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) ADJACENT TO NEW PLANTER
NOT TO SCALE

C
DT-7



SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B)
NOT TO SCALE

A
DT-7

- NOTES:**
- SCUPPERS SHALL BE LOCATED ALONG BOTTOM LENGTH OF BARRIER RAIL AT SIDEWALK SLOPE AND ELEVATION SPACED AT 10 FEET O.C.
 - SCUPPERS TO BE INSTALLED UNDER NEW LANDSCAPING SHALL BE EXTENDED TO FACE OF NEW PLANTER RETAINING WALL AND CONCRETE ENCASED.
 - FOR OTHER DETAILS SEE NDOT STD. DETAIL NO. RB-35G.

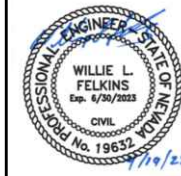
BARRIER SCUPPER (MODIFIED)
NOT TO SCALE

E
DT-7

F:\Projects\500\500-897-LV-EF-DWG\Production\VEF_08_DT_Sheets.dwg 04-19-22 10:50:17



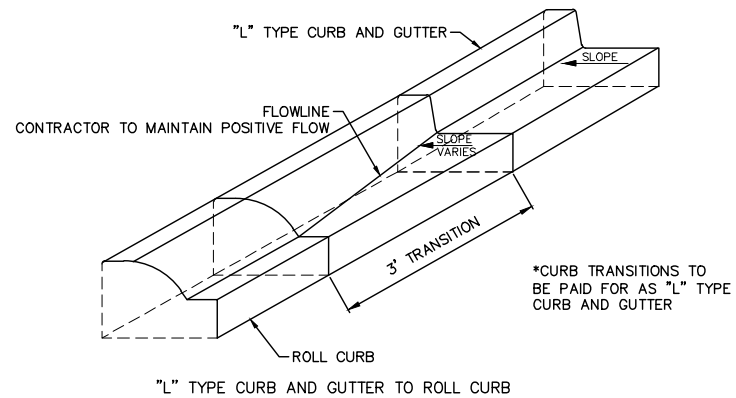
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



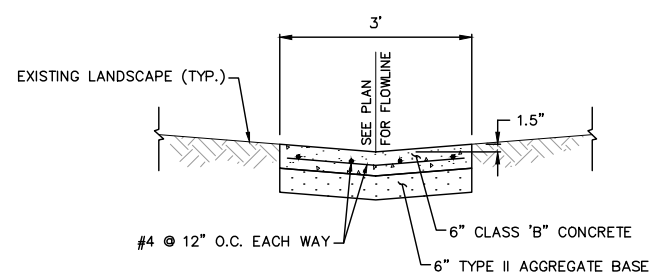
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
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SCALE	DRAWING NO.
HORIZ: NONE	DT-7
VERT: NONE	SHT. 64 OF 169
FIELD BOOK	L-2304

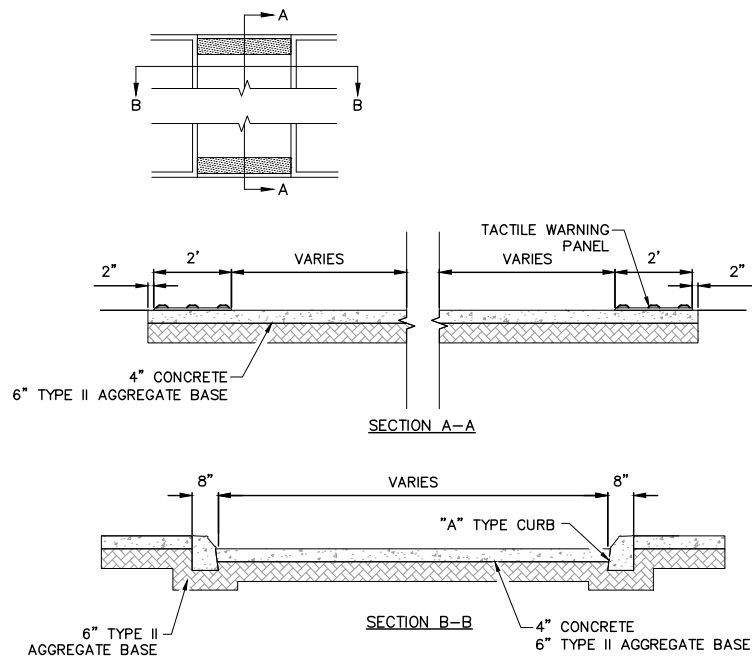
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



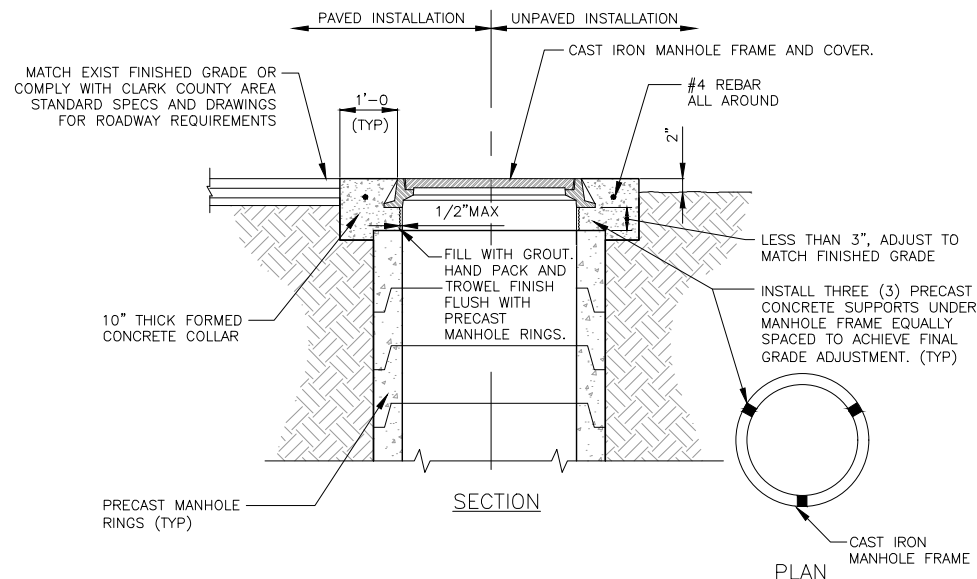
G
DT-8
CURB TRANSITION ('L' TYPE TO ROLL CURB)
 NOT TO SCALE



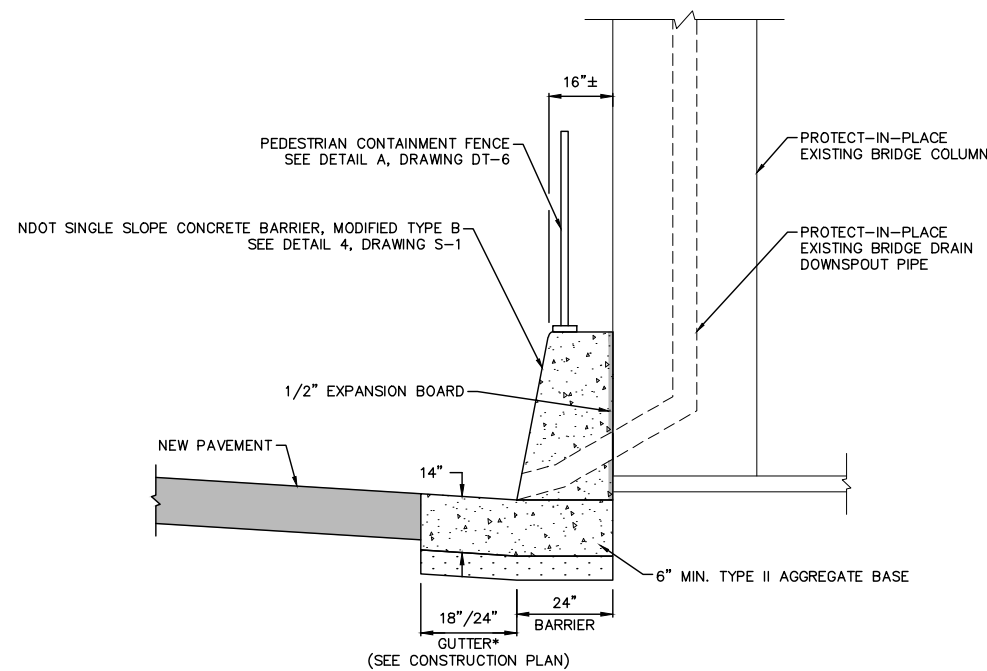
F
DT-8
3-FOOT CONCRETE VALLEY GUTTER
 NOT TO SCALE



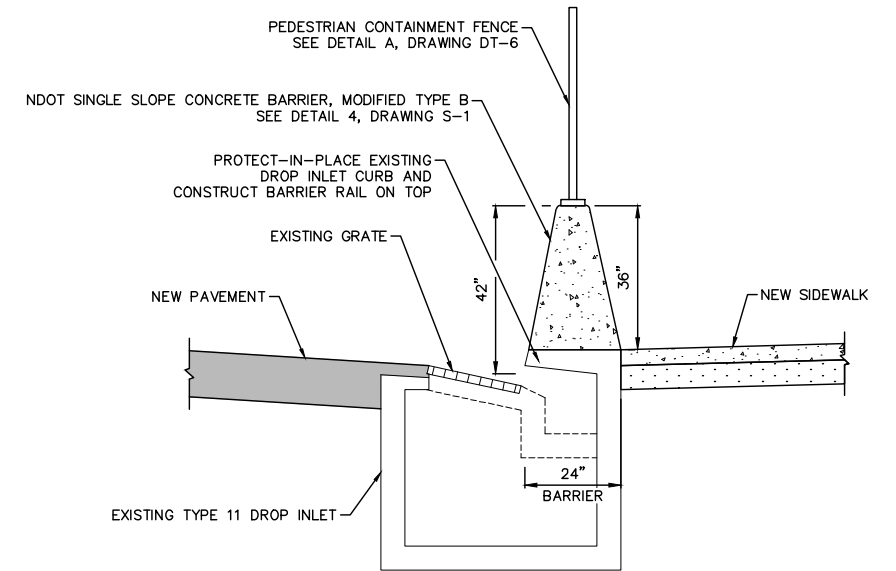
E
DT-8



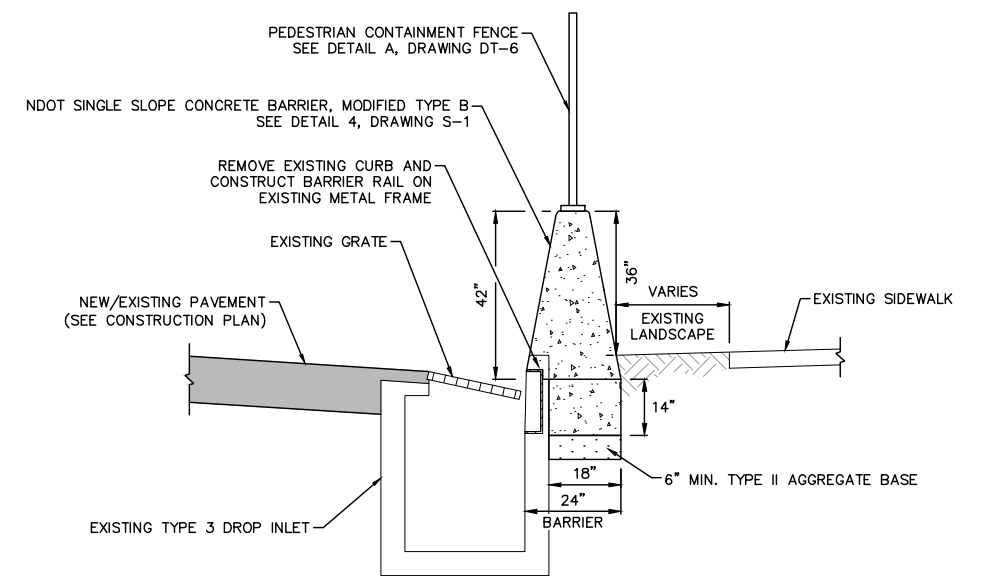
D
DT-8
MANHOLE COVER AND COLLAR INSTALLATION
 NOT TO SCALE



C
DT-8
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT BRIDGE COLUMN
 NOT TO SCALE



B
DT-8
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT TYPE 11 INLET
 NOT TO SCALE



A
DT-8
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT TYPE 3 INLET
 NOT TO SCALE

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



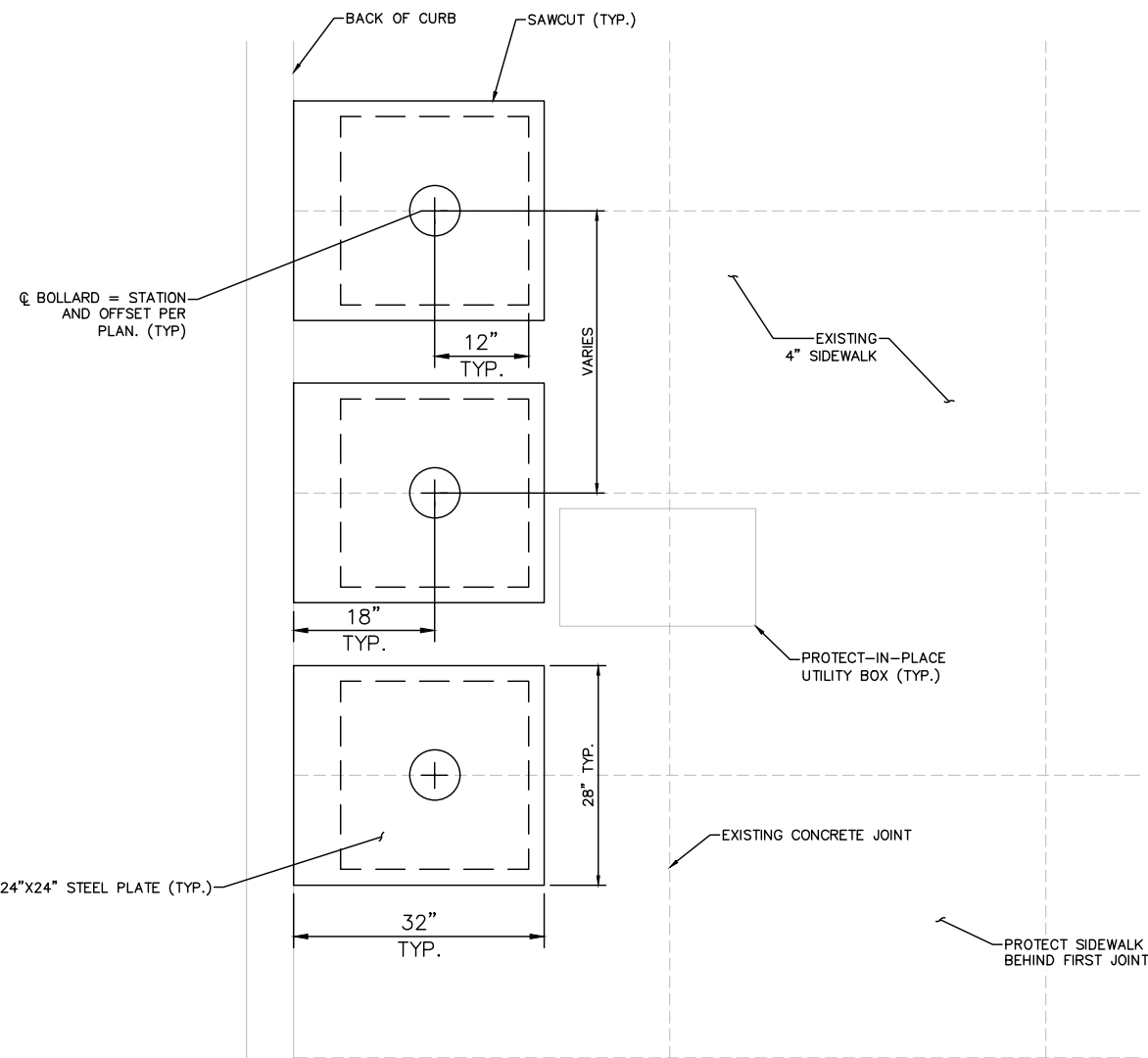
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
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SCALE	DRAWING NO.
HORIZ: NONE	DT-8
VERT: NONE	SHT. 65 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

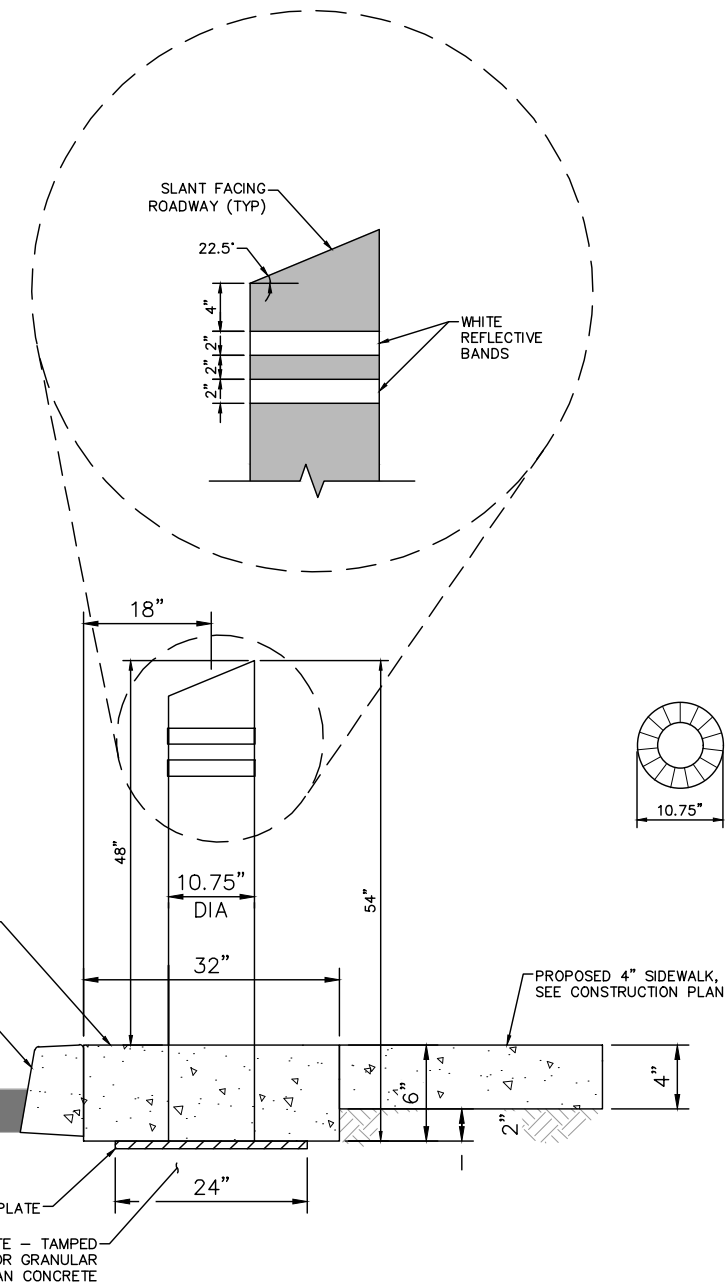
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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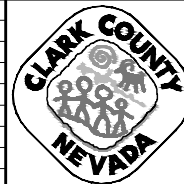


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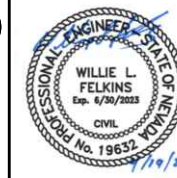
1. EACH BOLLARD SHALL BE POWDER COATED, COLOR RAL6009 METALLIC.
2. WHITE REFLECTIVE BANDS SHALL BE ASTM D4956 TYPE IV/VI MICROPRISMATIC TAPE.
3. CAP STYLE SHALL BE SLOPED FACE OR APPROVED EQUAL.
4. ALL CONCRETE SHALL BE PER SPECIFICATION: MINIMUM 5000 PSI WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.45.
5. EXCAVATION, PREPARATION OF SUBGRADE AND COMPACTION SHALL BE PER SECTION 206 OF THE SPECIAL PROVISIONS.



T-BOLLARD
TYPICAL INSTALLATION AND FINISH



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

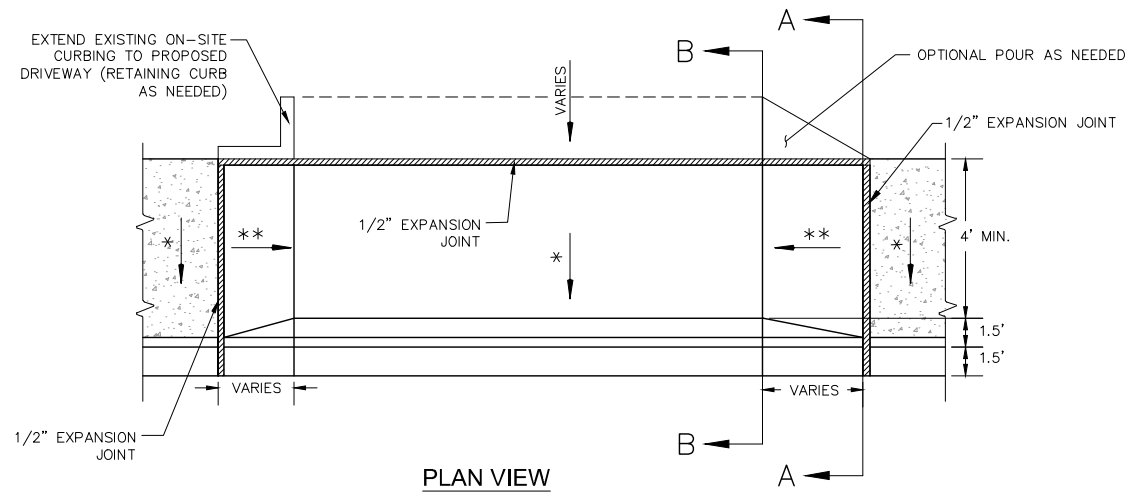


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
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APPROVED BY: _____
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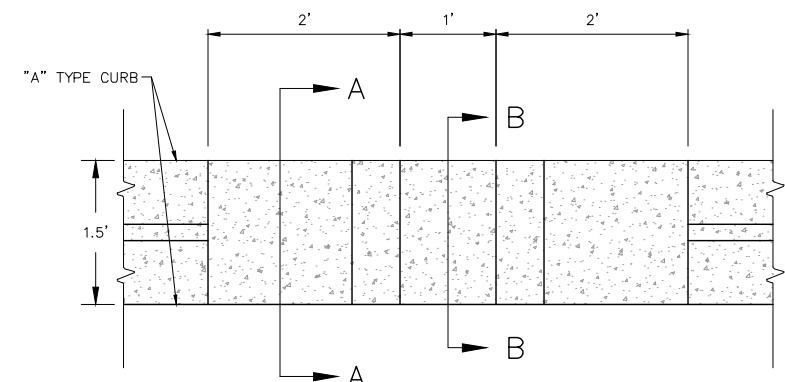
SCALE	DRAWING NO.
HORIZ: NONE	DT-9
VERT: NONE	SHT. 66 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
BID NO.: 605978-21



PLAN VIEW



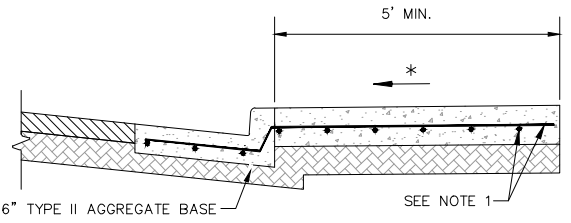
PLAN VIEW

NOTES:

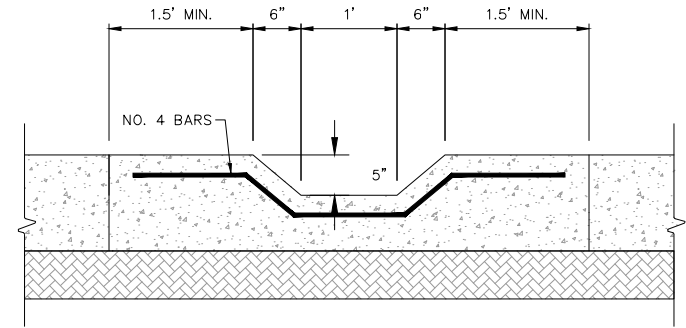
1. NO. 4 BARS AT 16" O.C. BOTH WAYS EXTENDING INTO GUTTER. NO. 4 BARS SHALL BE PLACED 3" ABOVE BOTTOM OF CONCRETE SUPPORTED BY NON-FERROUS CHAIRS APPROVED BY THE ENGINEER.
2. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAY SHALL BE MONOLITHIC TO A.C. LINE.
3. DRIVEWAY THICKNESS FOR INDUSTRIAL USE SHALL BE 8" MINIMUM.
4. WEAKENED PLANE JOINTS SHALL BE EQUALLY SPACED AT 15' MAXIMUM INTERVALS, SEE USDCCA STANDARD DRAWING NO. 234.

LEGEND:

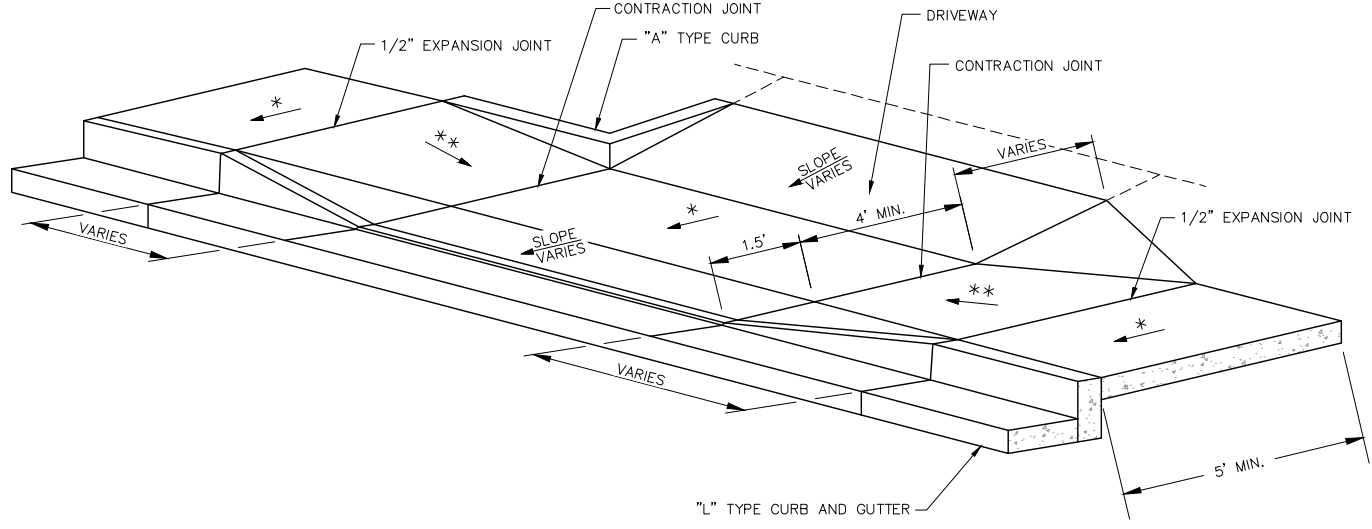
- * - 1.5% OR FLATTER RECOMMENDED FOR DESIGN / FORMWORK (2.0% MAX.)
- ** - 7.5% OR FLATTER RECOMMENDED FOR DESIGN / FORMWORK (8.3% MAX.)



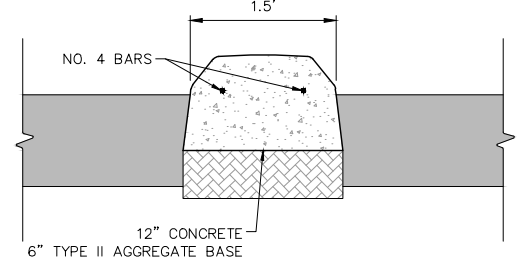
SECTION A-A



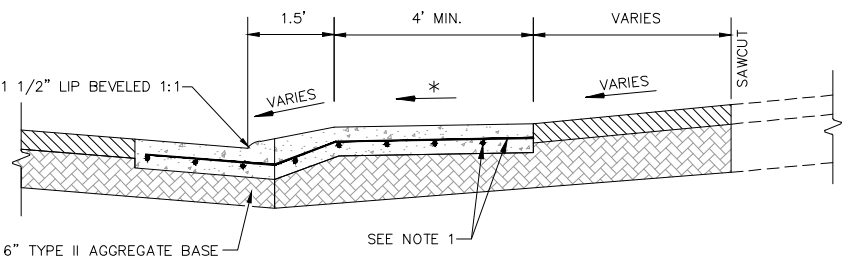
PROFILE VIEW



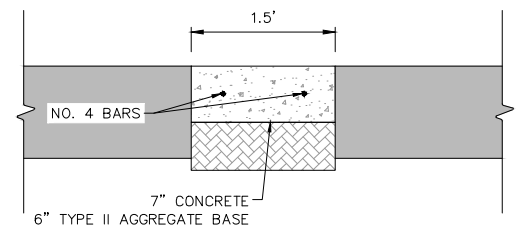
ISOMETRIC VIEW



SECTION A-A



SECTION B-B



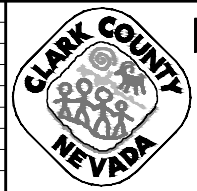
SECTION B-B

DRIVEWAY DETAIL
NOT TO SCALE

MEDIAN OPENING DETAIL
NOT TO SCALE

A
DT-10

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION DETAILS

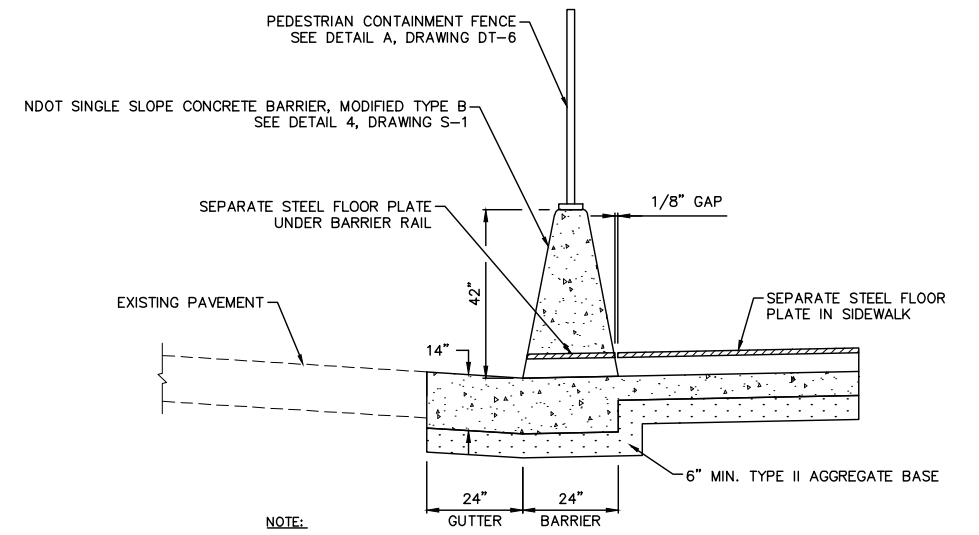
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TJS
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
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SCALE	DRAWING NO.
HORIZ: NONE	DT-10
VERT: NONE	SHT. 67 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

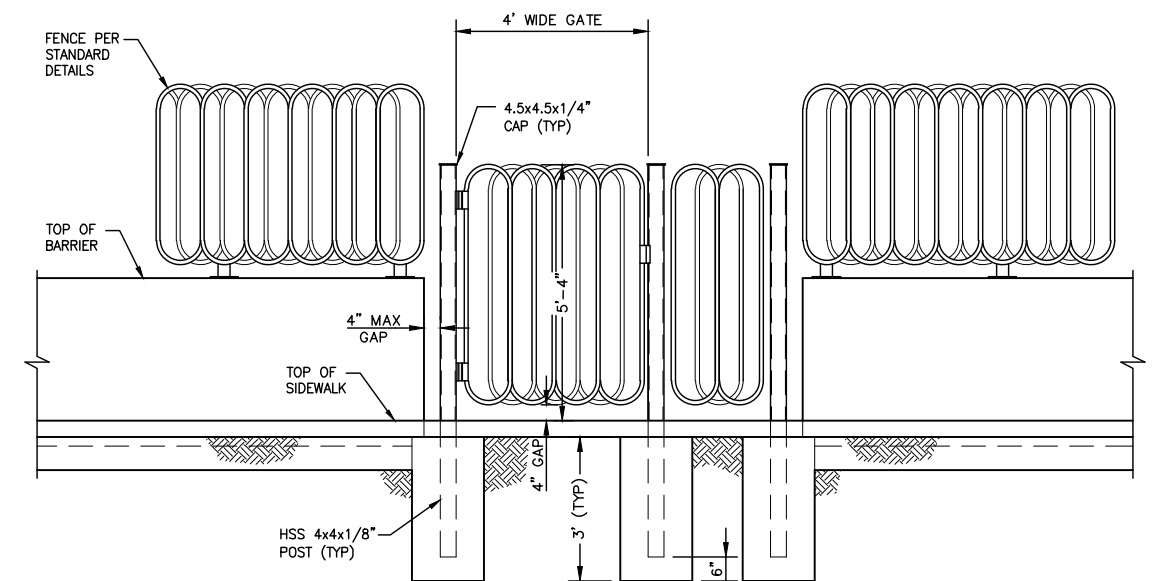


NOTE:
1. REFER TO USDCCA STD. DWG. NO. 236 FOR SIDEWALK DRAIN DETAILS.

**SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B)
AT SIDEWALK DRAIN**

NOT TO SCALE

B
DT-11



NOTES:

1. FENCE FABRICATOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. FABRICATE GATE USING SIMILAR DETAILS AS FENCE. GATE AND FENCE NOT ON CONCRETE BARRIER RAIL SHALL BE 5'-4" HIGH AS SHOWN.
3. FENCE FABRICATOR SHALL PROVIDE HEAVY DUTY HINGE AND LOCK DETAILS WITH SHOP DRAWINGS FOR APPROVAL.
4. PROVIDE MAXIMUM 4" GAP BETWEEN CONCRETE BARRIER RAILS OR EXISTING COLUMNS.
5. WHERE FENCE BUTTS UP AGAINST EXISTING BRIDGE COLUMN INSTEAD OF A BARRIER RAIL, FENCE MAY BE ATTACHED TO COLUMN AND HSS POST ELIMINATED.

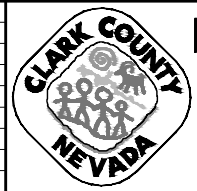
FIRE HYDRANT ACCESS GATE DETAIL

NOT TO SCALE

A
DT-11

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

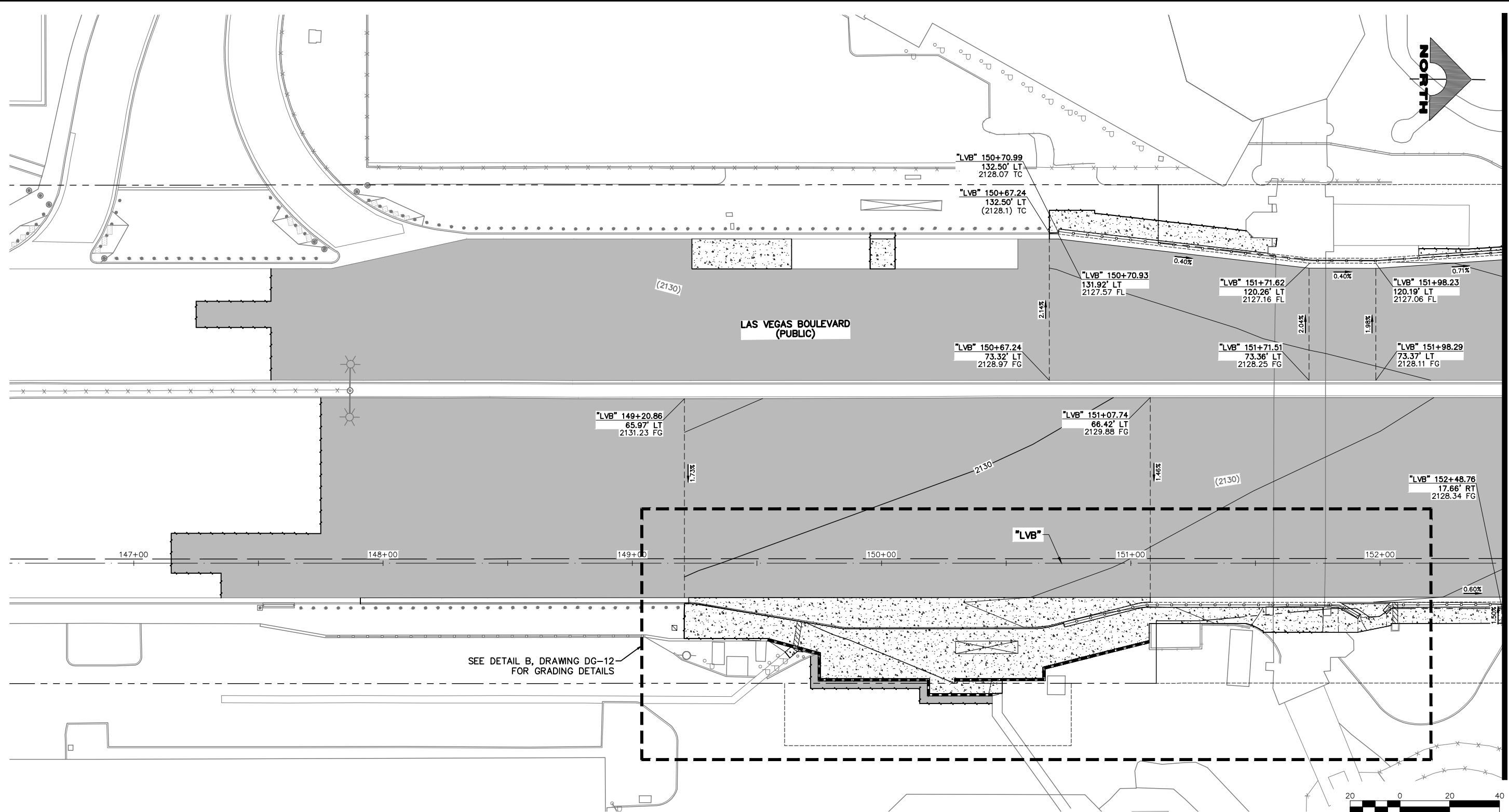


PROJECT No: 500-897-LV-EF DRAWN BY: TJS
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
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SCALE	DRAWING NO.
HORIZ: NONE	DT-11
VERT: NONE	SHT. 68 OF 169
FIELD BOOK	L-2304

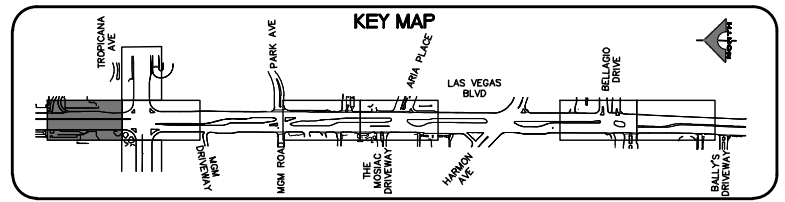
BID NO.: 605978-21

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MATCHLINE SEE DRAWING NO. DG-2
"LVB" 152+50.00

SEE DETAIL B, DRAWING DG-12
FOR GRADING DETAILS



LEGEND

	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING

CALL BEFORE YOU DIG
Avoid hitting overhead power lines. It's costly. Call 811 before you dig.

1-702-227-2929

FAST
Call before you UnderGround.
1-702-901-8400
PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly. Call 811 before you dig.

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"LVB" 146+50.00 TO "LVB" 152+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

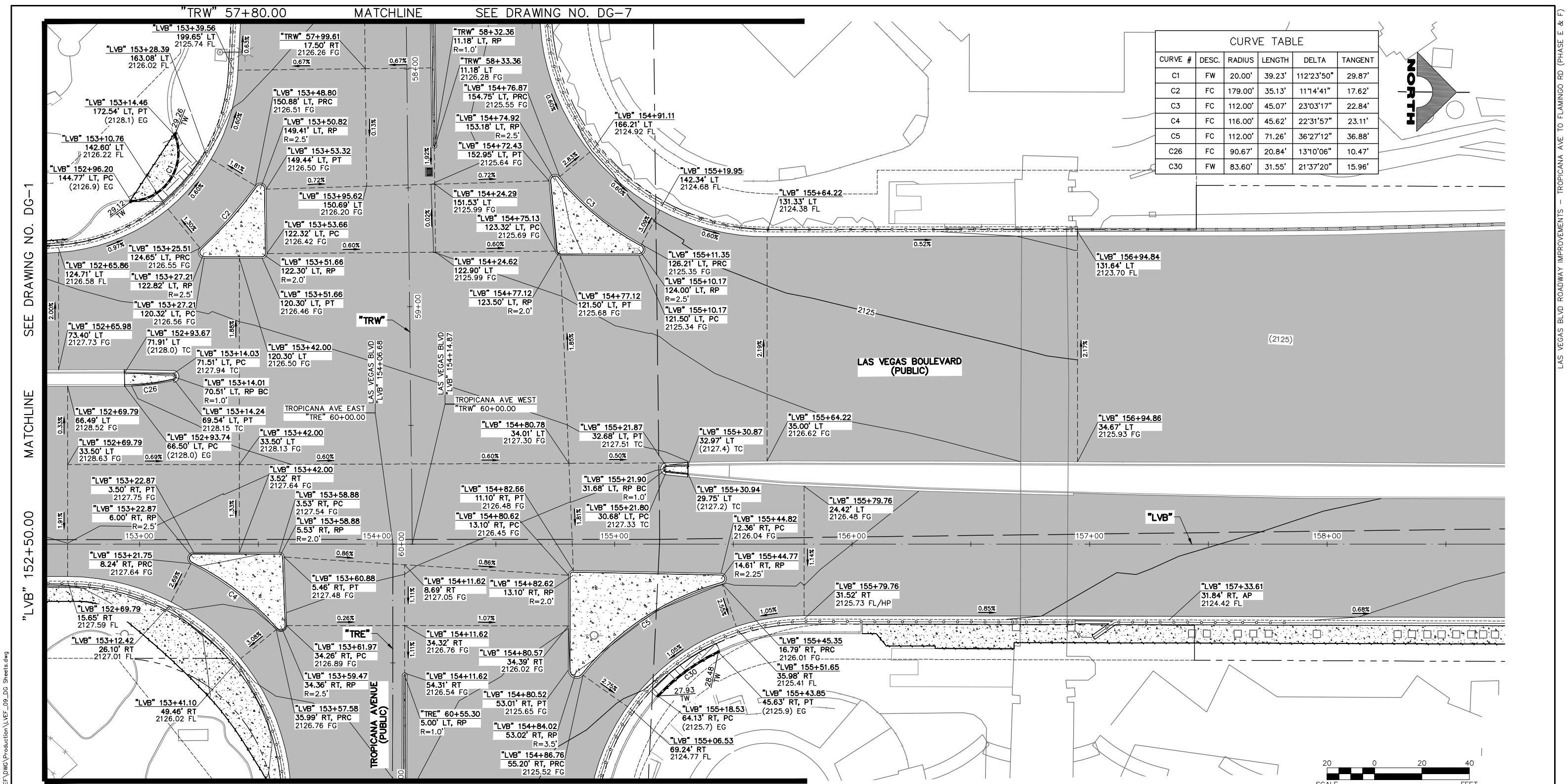


PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY:

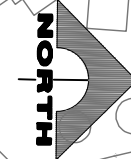
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-1
VERT: NONE	SHT. 69 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21



CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C1	FW	20.00'	39.23'	112°23'50"	29.87'
C2	FC	179.00'	35.13'	111°4'41"	17.62'
C3	FC	112.00'	45.07'	23°03'17"	22.84'
C4	FC	116.00'	45.62'	22°31'57"	23.11'
C5	FC	112.00'	71.26'	36°27'12"	36.88'
C26	FC	90.67'	20.84'	13°10'06"	10.47'
C30	FW	83.60'	31.55'	21°37'20"	15.96'

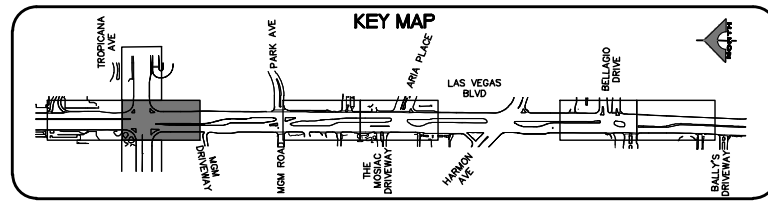


SEE DRAWING NO. DG-1

MATCHLINE

"LVB" 152+50.00

"TRE" 61+00.00
MATCHLINE
SEE DRAWING NO. DG-8



LEGEND

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
- LANDSCAPING

FAST
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1-702-227-2929

Call before you Dig
Call 811
1-800-642-2444

04-19-22 10:51:08 F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_09_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"LVB" 152+50.00 TO "LVB" 158+75.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



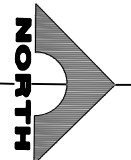
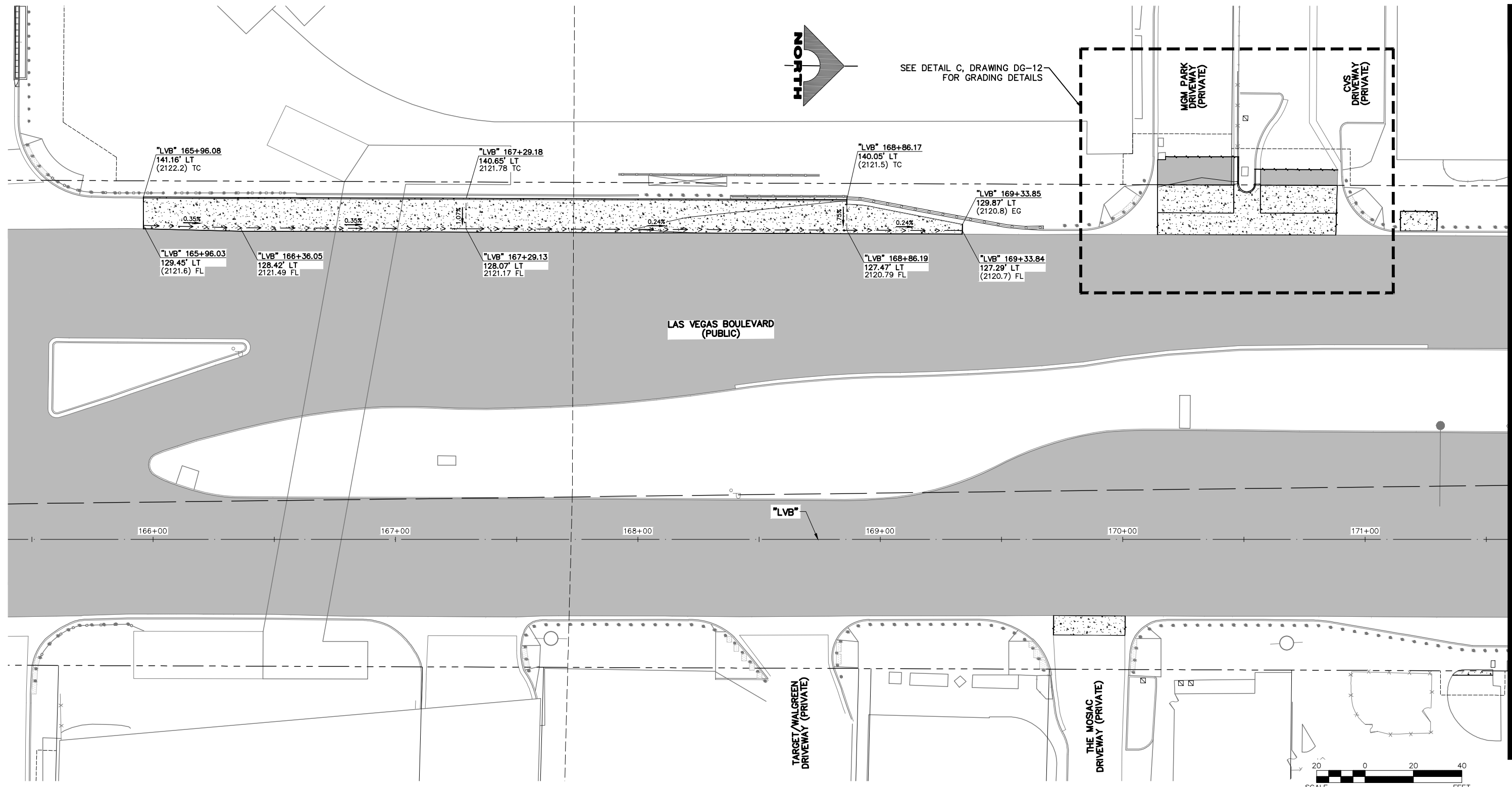
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY:

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-2
VERT: NONE	SHT. 70 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

F:\Projects\500\500-897-LV-EF\DWG\Production\LVF_09_DG_Sheets.dwg



SEE DETAIL C, DRAWING DG-12 FOR GRADING DETAILS

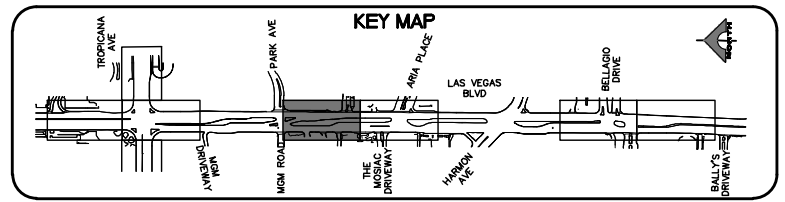
LAS VEGAS BOULEVARD (PUBLIC)

TARGET/WALGREEN DRIVEWAY (PRIVATE)

THE MOSIAC DRIVEWAY (PRIVATE)

MGM PARK DRIVEWAY (PRIVATE)

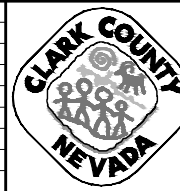
CVS DRIVEWAY (PRIVATE)



LEGEND	
	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"LVB" 165+40.00 TO "LVB" 171+60.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 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-3
VERT: NONE	SHT. 71 OF 169
FIELD BOOK	L-2304

MATCHLINE SEE DRAWING NO. DG-4

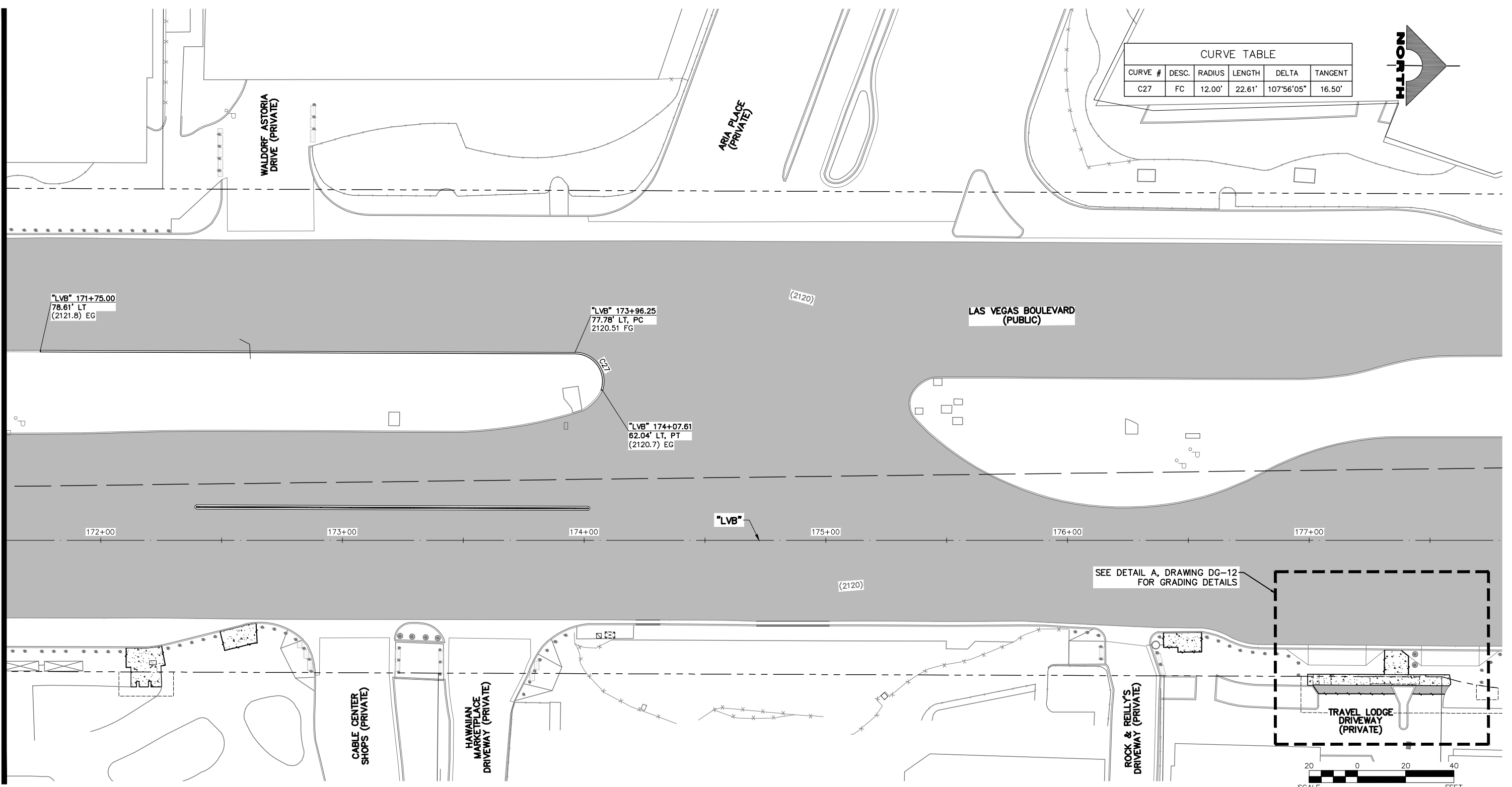
"LVB" 171+60.00

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

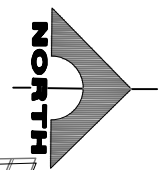
BID NO.: 605978-21

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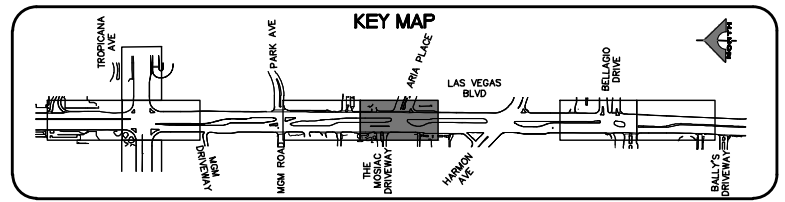
SEE DRAWING NO. DG-3
MATCHLINE
"LVB" 171+60.00



CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C27	FC	12.00'	22.61'	107°56'05"	16.50'



SEE DETAIL A, DRAWING DG-12 FOR GRADING DETAILS



LEGEND	
	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING

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

FAST Call before you UnderGround.
 1-702-901-8400
 PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
 Avoid cutting underground utility lines. It's costly.
 Call 811
 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"LVB" 171+60.00 TO "LVB" 177+80.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

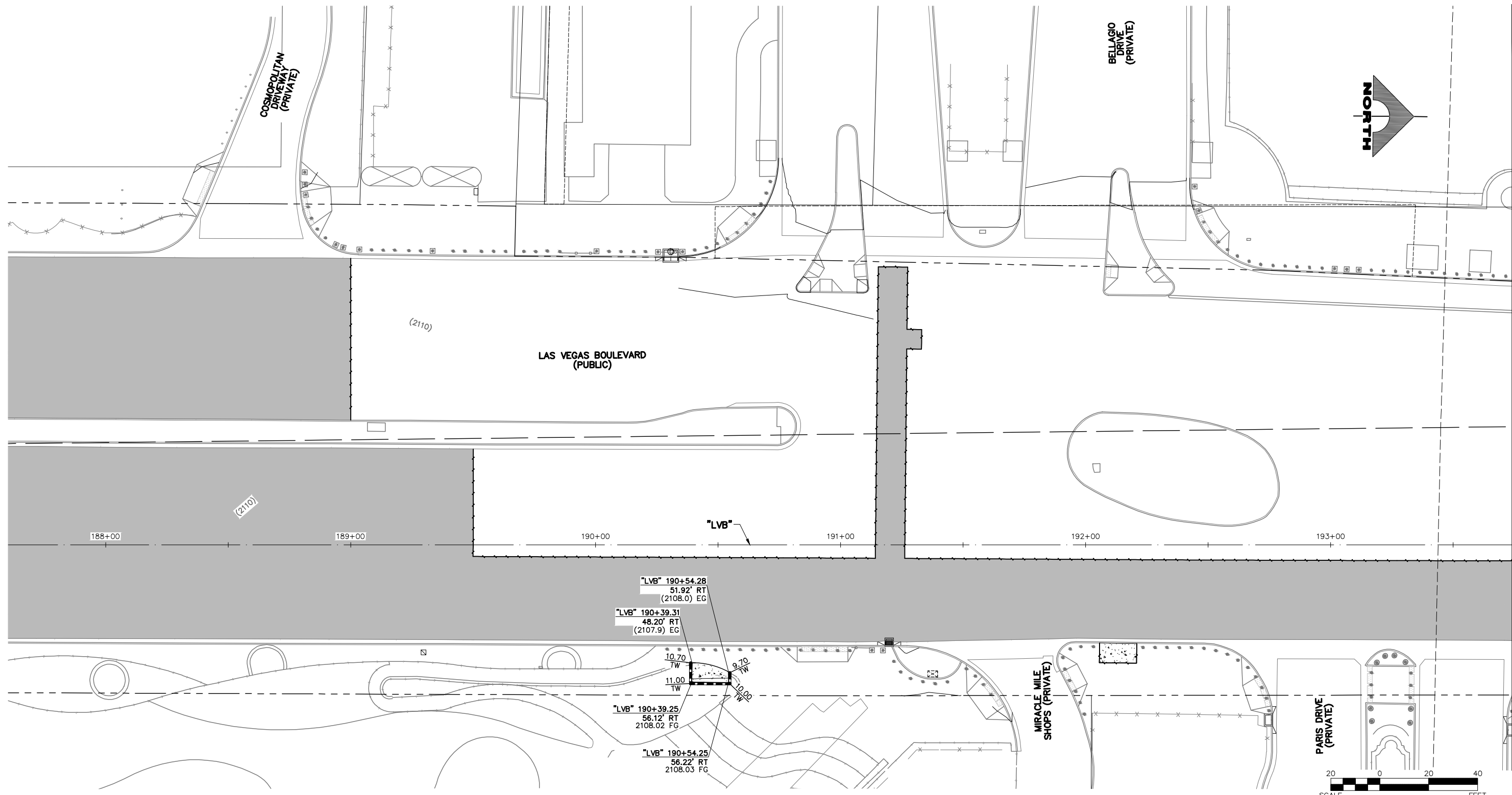


PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

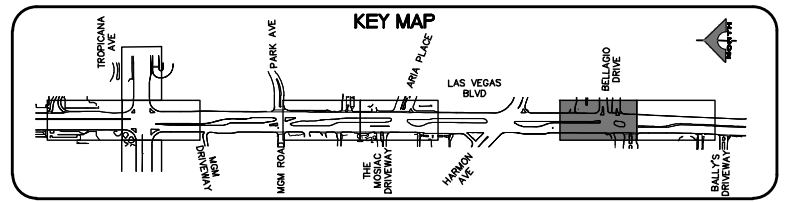
SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-4
VERT: NONE	SHT. 72 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_09_DG_Sheets.dwg



SEE DRAWING NO. DG-6
MATCHLINE
"LVB" 193+75.00



LEGEND

	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING

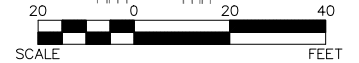
FAST

Call before you Dig

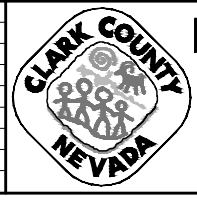
1-702-227-2929

Call before you Dig

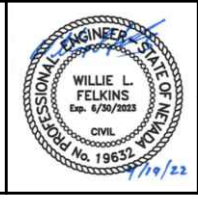
1-800-642-2444



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"LVB" 187+50.00 TO "LVB" 193+75.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

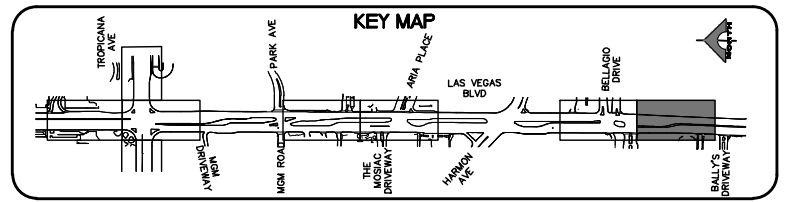
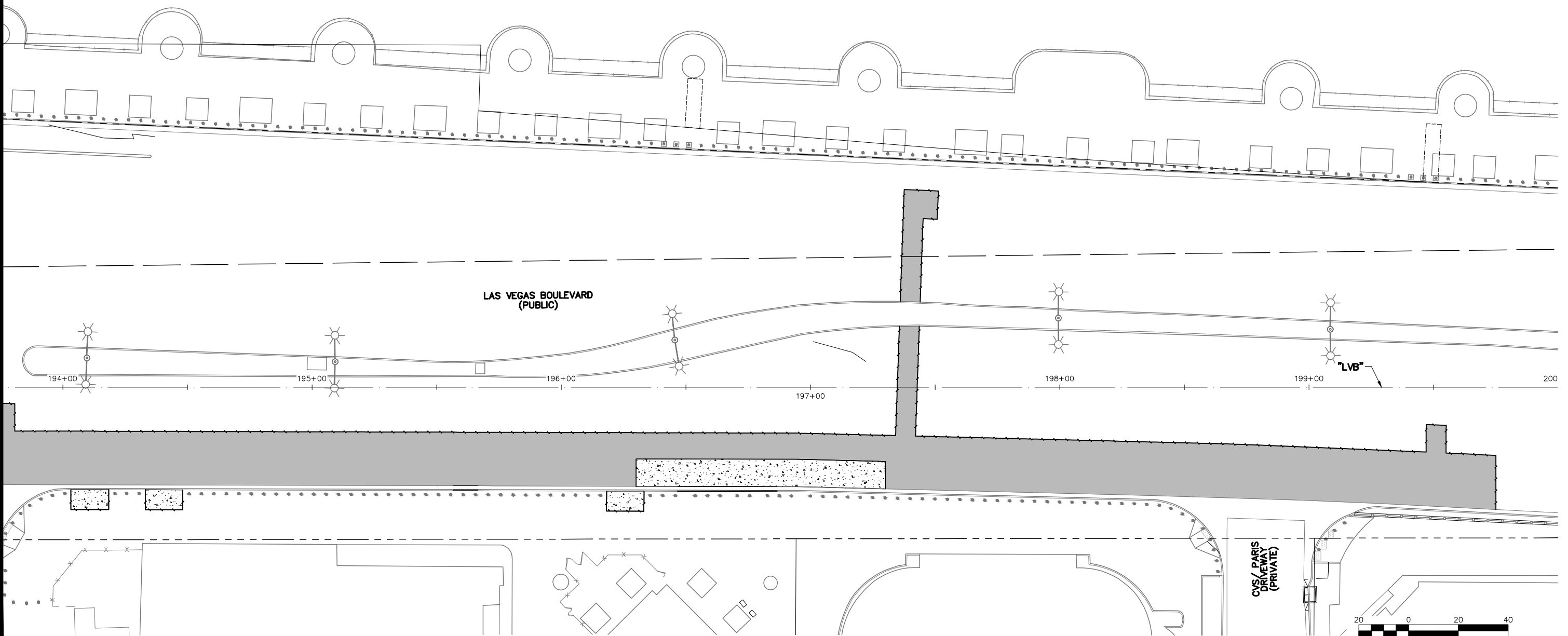
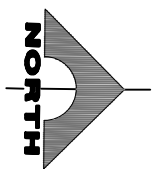
GCV
 ENGINEERS SURVEYORS

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-5
VERT: NONE	SHT. 73 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

"LVB" 193+75.00 MATCHLINE SEE DRAWING NO. DG-5



LEGEND	
	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING

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

FAST Call before you UnderGround.
 1-702-901-8400
 FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
 Avoid cutting underground utility lines. It's costly.
Call 811
 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"LVB" 193+75.00 TO "LVB" 200+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
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 F: 702.804.2299
 gcvengineering.com

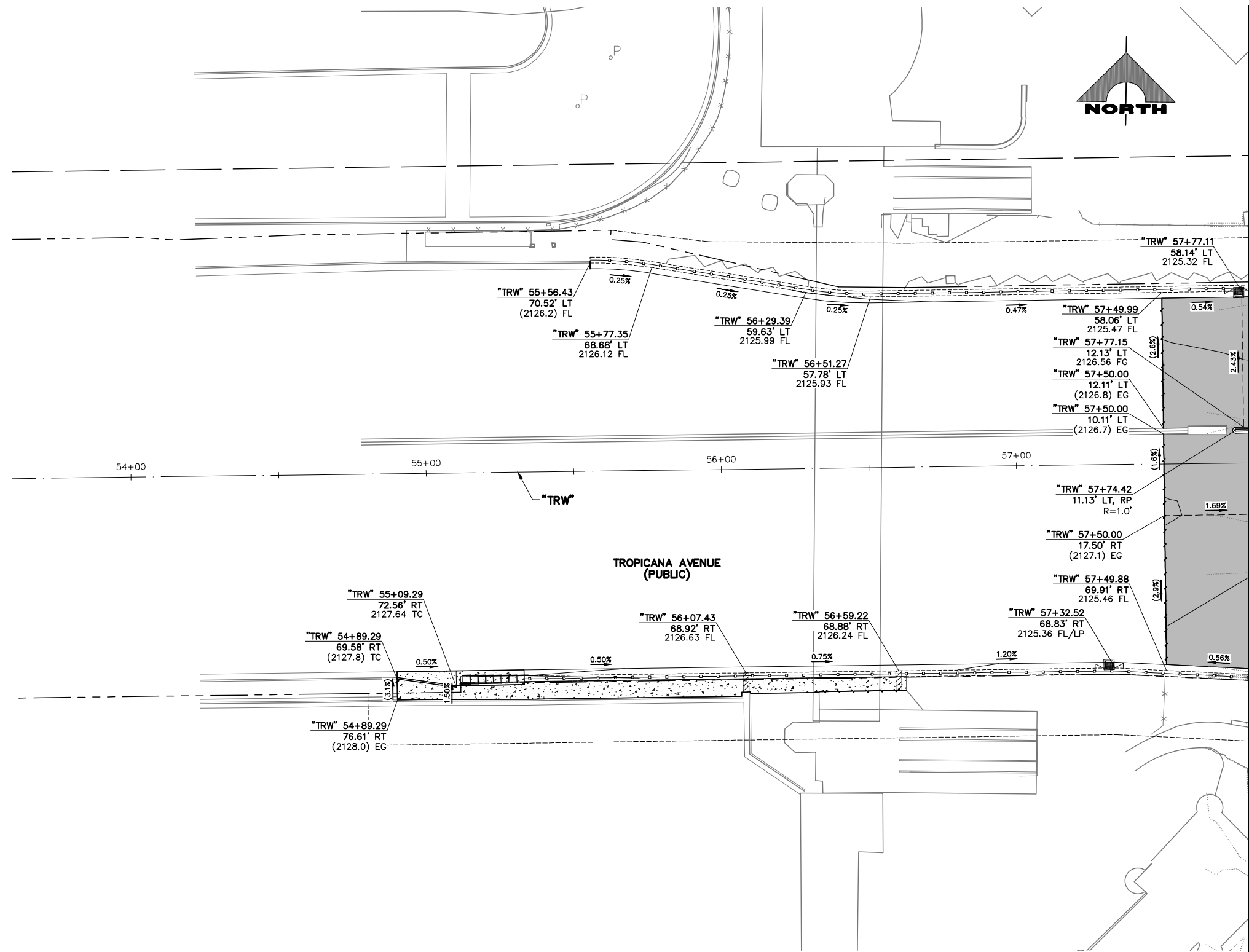
SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-6
VERT: NONE	SHT. 74 OF 169
FIELD BOOK	L-2304

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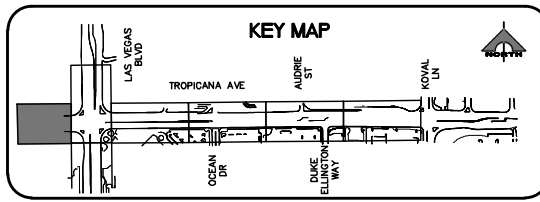
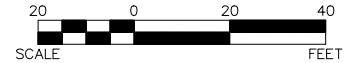
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

F:\Projects\500-897-LV-EF\DWG\Production\VEF_09A_DG Sheets.dwg

10/19/22 10:52:08



SEE DRAWING NO. DG-2
MATCHLINE
"TRW" 57+80.00



LEGEND

	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING

CALL BEFORE YOU DO OVERHEAD

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

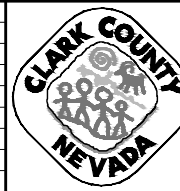
Call before you Dig

Call 811

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"TRW" 53+50.00 TO "TRW" 57+80.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



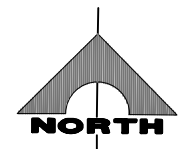
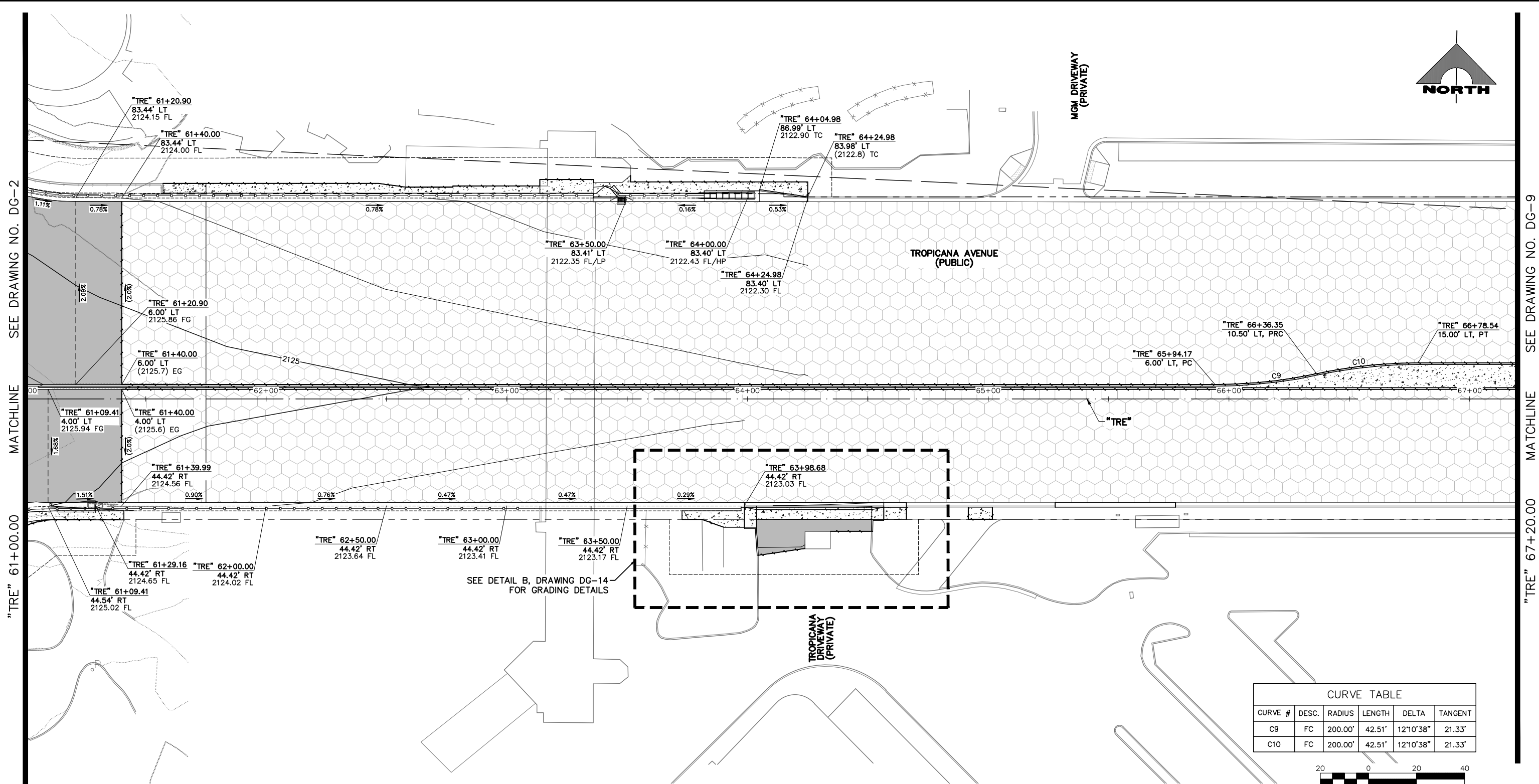
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

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: AS SHOWN	DG-7
VERT: NONE	SHT. 75 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

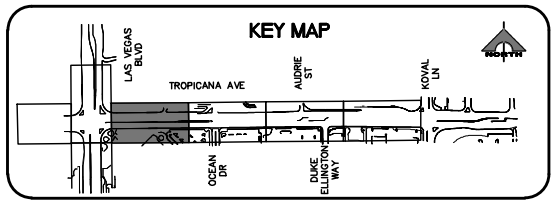
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MATCHLINE SEE DRAWING NO. DG-2
"TRE" 61+00.00

MATCHLINE SEE DRAWING NO. DG-9
"TRE" 67+20.00

CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C9	FC	200.00'	42.51'	12°10'38"	21.33'
C10	FC	200.00'	42.51'	12°10'38"	21.33'



LEGEND	
	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"TRE" 61+00.00 TO "TRE" 67+20.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



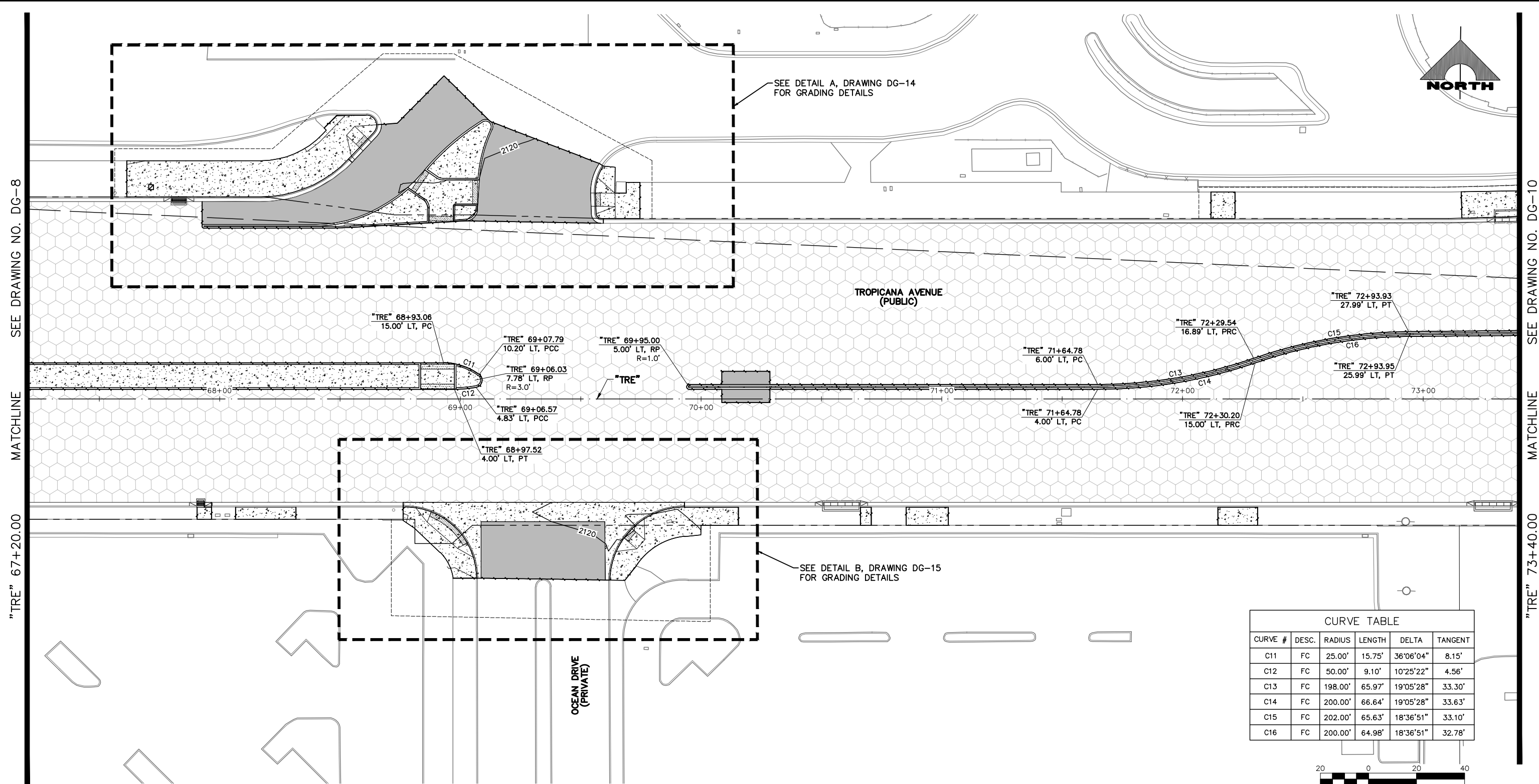
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-8
VERT: NONE	SHT. 76 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

F:\Projects\500-897-LV-EF\DWG\Production\VEF_09A_DG_Sheets.dwg



SEE DRAWING NO. DG-8

MATCHLINE

"TRE" 67+20.00

SEE DRAWING NO. DG-10

MATCHLINE

"TRE" 73+40.00

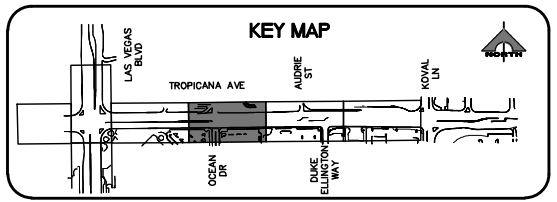
SEE DETAIL A, DRAWING DG-14
FOR GRADING DETAILS

TROPICANA AVENUE
(PUBLIC)

SEE DETAIL B, DRAWING DG-15
FOR GRADING DETAILS

OCEAN DRIVE
(PRIVATE)

CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C11	FC	25.00'	15.75'	36°06'04"	8.15'
C12	FC	50.00'	9.10'	10°25'22"	4.56'
C13	FC	198.00'	65.97'	19°05'28"	33.30'
C14	FC	200.00'	66.64'	19°05'28"	33.63'
C15	FC	202.00'	65.63'	18°36'51"	33.10'
C16	FC	200.00'	64.98'	18°36'51"	32.78'



LEGEND

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
- LANDSCAPING

CALL BEFORE YOU DIG
Avoid cutting underground utility lines. It's costly.

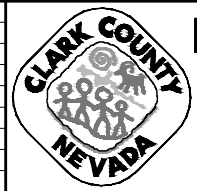
1-702-227-2929

FAST
Call before you UnderGround.
1-702-901-8400
PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly.

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"TRE" 67+20.00 TO "TRE" 73+40.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY:

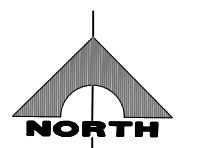
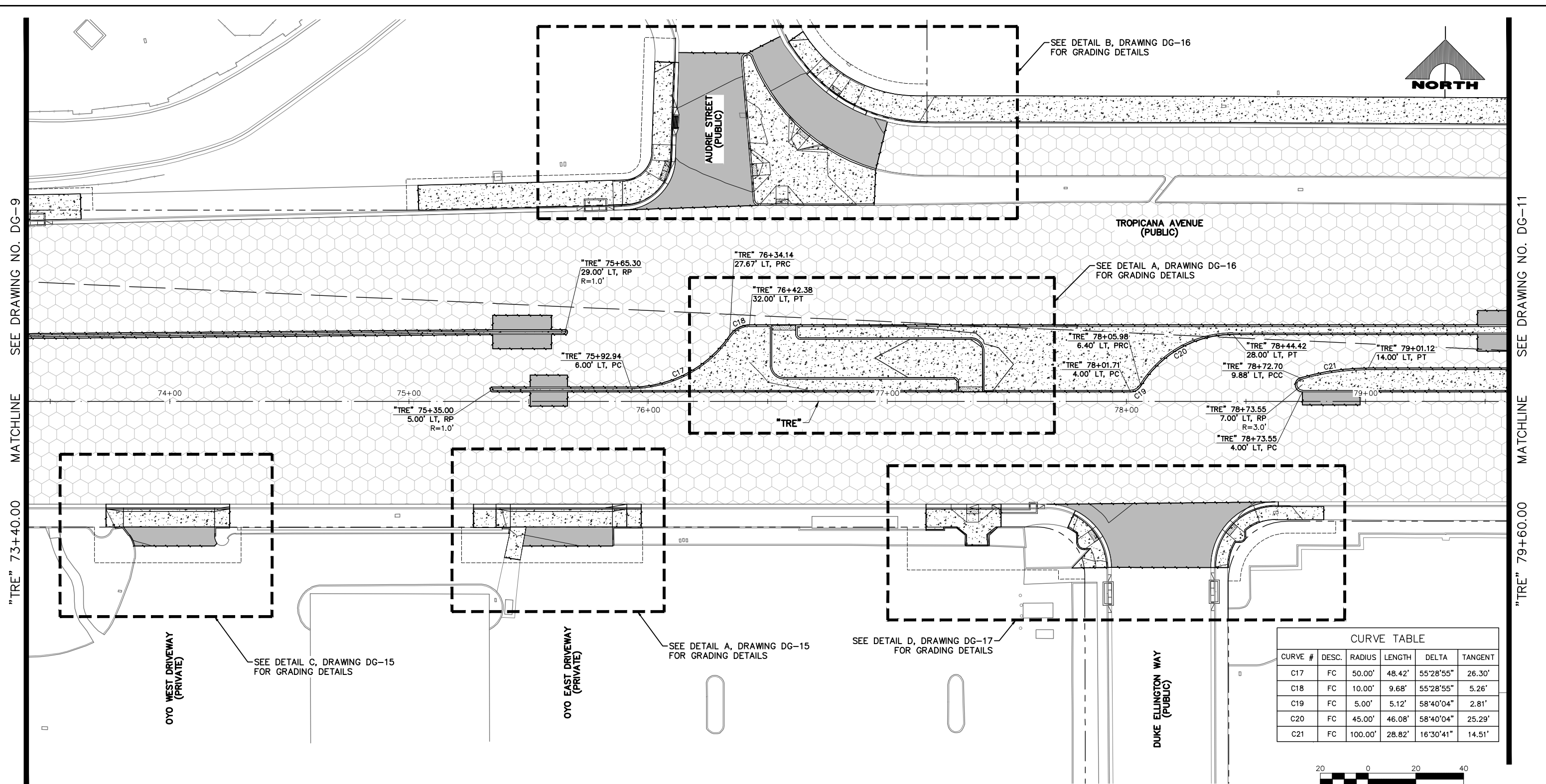
1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK

DRAWING NO.
DG-9
 SH. 77 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

I:\Projects\500\500-897-LV-EF\DWG\Production\VEF_09A_DG_Sheets.dwg 04-19-22 10:52:23



SEE DETAIL B, DRAWING DG-16 FOR GRADING DETAILS

TROPICANA AVENUE (PUBLIC)

SEE DETAIL A, DRAWING DG-16 FOR GRADING DETAILS

"TRE" 75+65.30
29.00' LT, RP
R=1.0'

"TRE" 76+34.14
27.67' LT, PRC

"TRE" 76+42.38
32.00' LT, PT

"TRE" 75+92.94
6.00' LT, PC

"TRE" 78+05.98
6.40' LT, PRC

"TRE" 78+01.71
4.00' LT, PC

"TRE" 78+44.42
28.00' LT, PT

"TRE" 78+72.70
9.88' LT, PCC

"TRE" 79+01.12
14.00' LT, PT

"TRE" 75+35.00
5.00' LT, RP
R=1.0'

"TRE" 78+73.55
7.00' LT, RP
R=3.0'

"TRE" 78+73.55
4.00' LT, PC

OYO WEST DRIVEWAY (PRIVATE)

SEE DETAIL C, DRAWING DG-15 FOR GRADING DETAILS

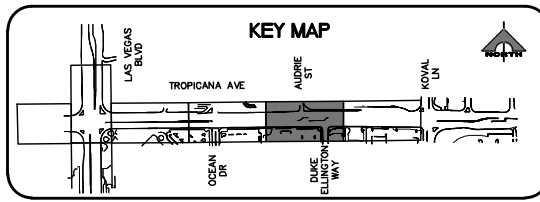
OYO EAST DRIVEWAY (PRIVATE)

SEE DETAIL A, DRAWING DG-15 FOR GRADING DETAILS

SEE DETAIL D, DRAWING DG-17 FOR GRADING DETAILS

DUKE ELLINGTON WAY (PUBLIC)

CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C17	FC	50.00'	48.42'	55°28'55"	26.30'
C18	FC	10.00'	9.68'	55°28'55"	5.26'
C19	FC	5.00'	5.12'	58°40'04"	2.81'
C20	FC	45.00'	46.08'	58°40'04"	25.29'
C21	FC	100.00'	28.82'	16°30'41"	14.51'



LEGEND

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
- LANDSCAPING

CALL BEFORE YOU DO OVERHEAD

Avoid hitting overhead power lines. It's costly.

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

PREWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

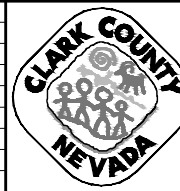
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"TRE" 73+40.00 TO "TRE" 79+60.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

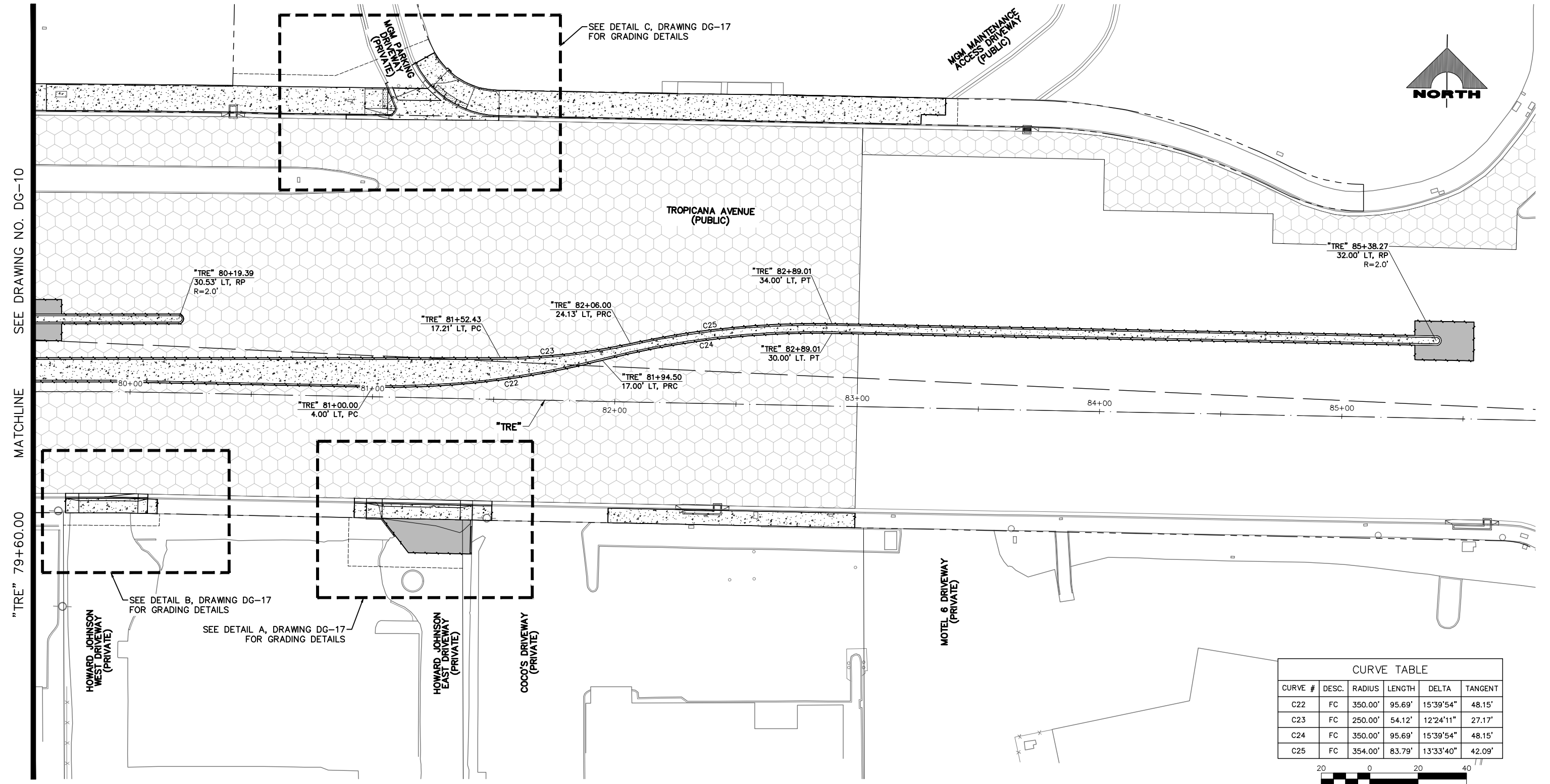
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **DG-10**
 SHT. 78 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_09A_DG Sheets.dwg



SEE DRAWING NO. DG-10
MATCHLINE
"TRE" 79+60.00

SEE DETAIL C, DRAWING DG-17
FOR GRADING DETAILS

M&M MAINTENANCE
ACCESS DRIVEWAY
(PUBLIC)



TROPICANA AVENUE
(PUBLIC)

"TRE" 80+19.39
30.53' LT, RP
R=2.0'

"TRE" 82+89.01
34.00' LT, PT

"TRE" 81+52.43
17.21' LT, PC

"TRE" 82+06.00
24.13' LT, PRC

"TRE" 82+89.01
30.00' LT, PT

"TRE" 85+38.27
32.00' LT, RP
R=2.0'

"TRE" 81+00.00
4.00' LT, PC

"TRE" 81+94.50
17.00' LT, PRC

SEE DETAIL B, DRAWING DG-17
FOR GRADING DETAILS

SEE DETAIL A, DRAWING DG-17
FOR GRADING DETAILS

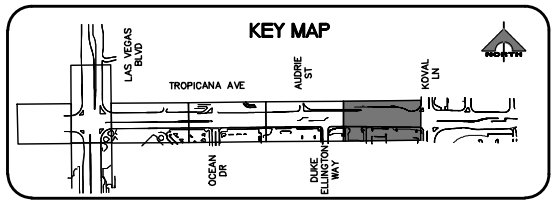
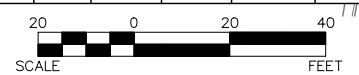
HOWARD JOHNSON
WEST DRIVEWAY
(PRIVATE)

HOWARD JOHNSON
EAST DRIVEWAY
(PRIVATE)

COCO'S DRIVEWAY
(PRIVATE)

MOTEL 6 DRIVEWAY
(PRIVATE)

CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C22	FC	350.00'	95.69'	15°39'54"	48.15'
C23	FC	250.00'	54.12'	12°24'11"	27.17'
C24	FC	350.00'	95.69'	15°39'54"	48.15'
C25	FC	354.00'	83.79'	13°33'40"	42.09'



LEGEND

- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
- CONCRETE MEDIAN SURFACE/SIDEWALK
- 1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
- LANDSCAPING

CALL BEFORE YOU DIG
Avoid hitting overhead power lines. It's costly. It's costly.

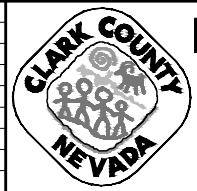
1-702-227-2929

FAST
Call before you UnderGround.
1-702-901-8400
FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly. It's costly.

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
DETAILED GRADING PLAN
"TRE" 79+60.00 TO "TRE" 85+80.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



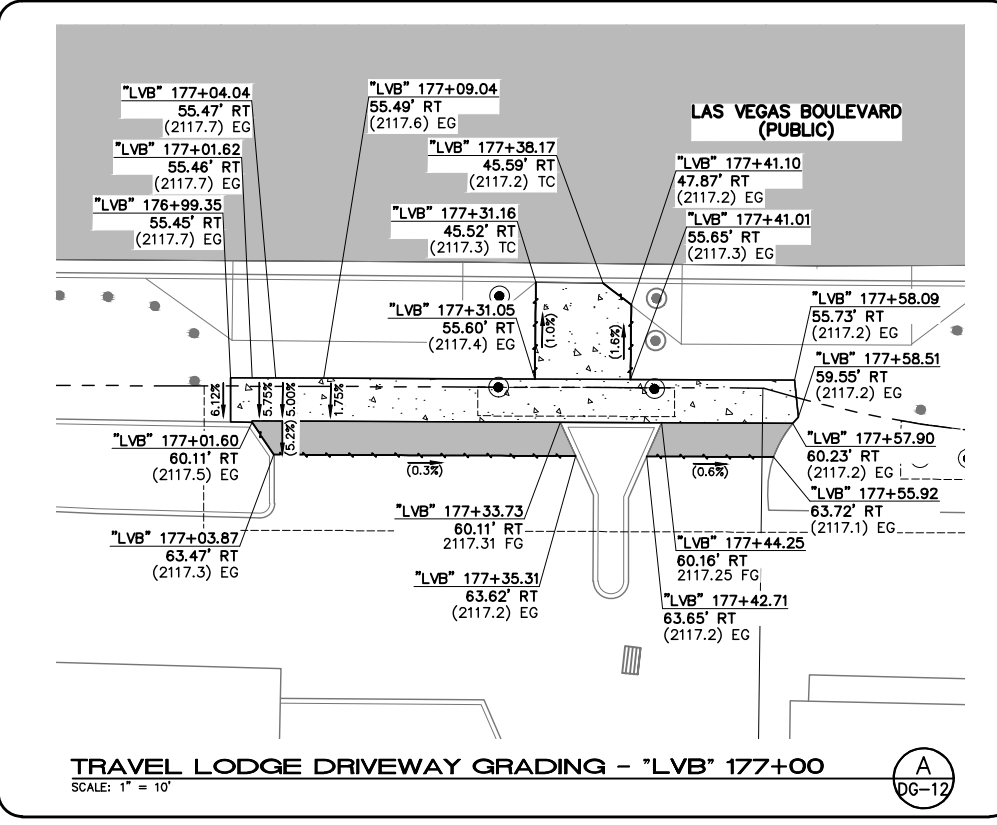
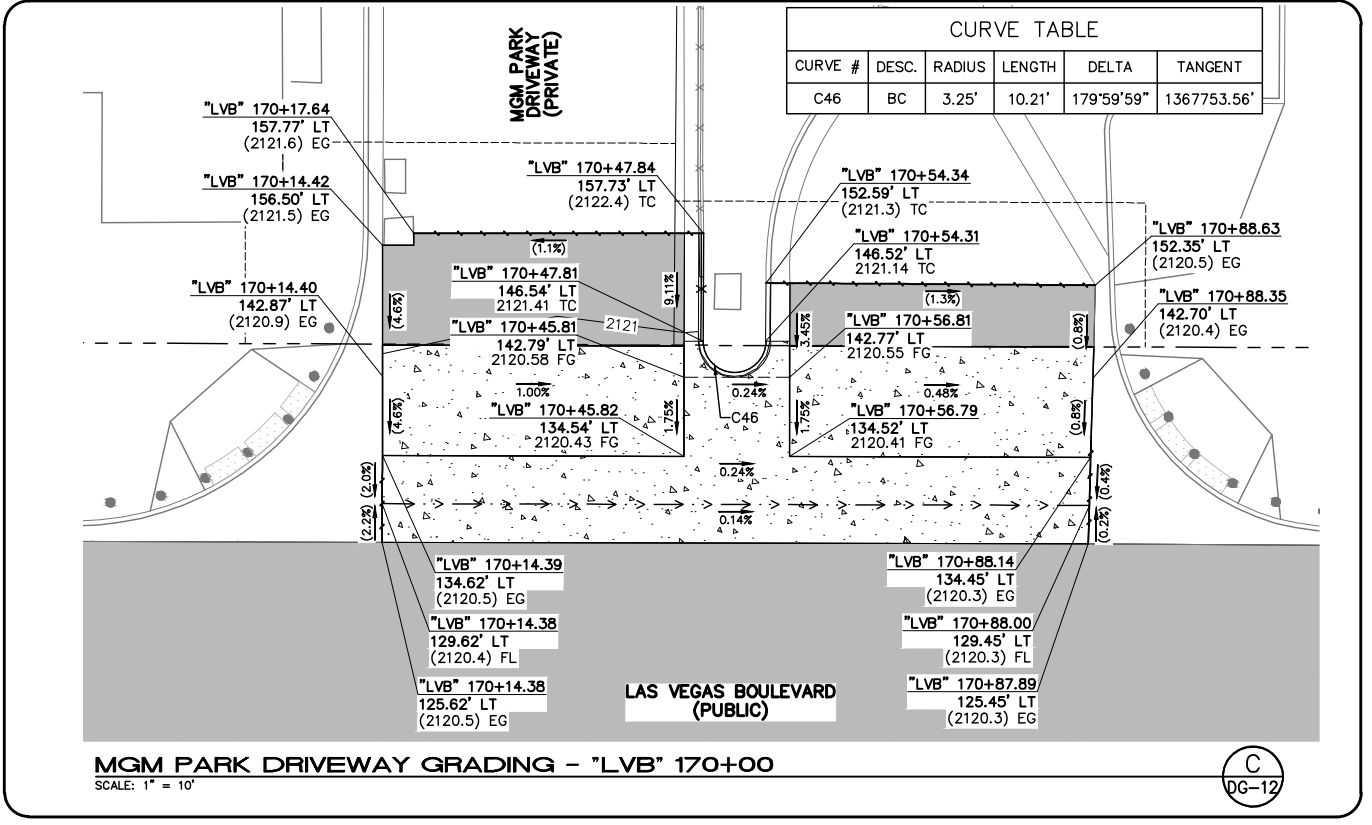
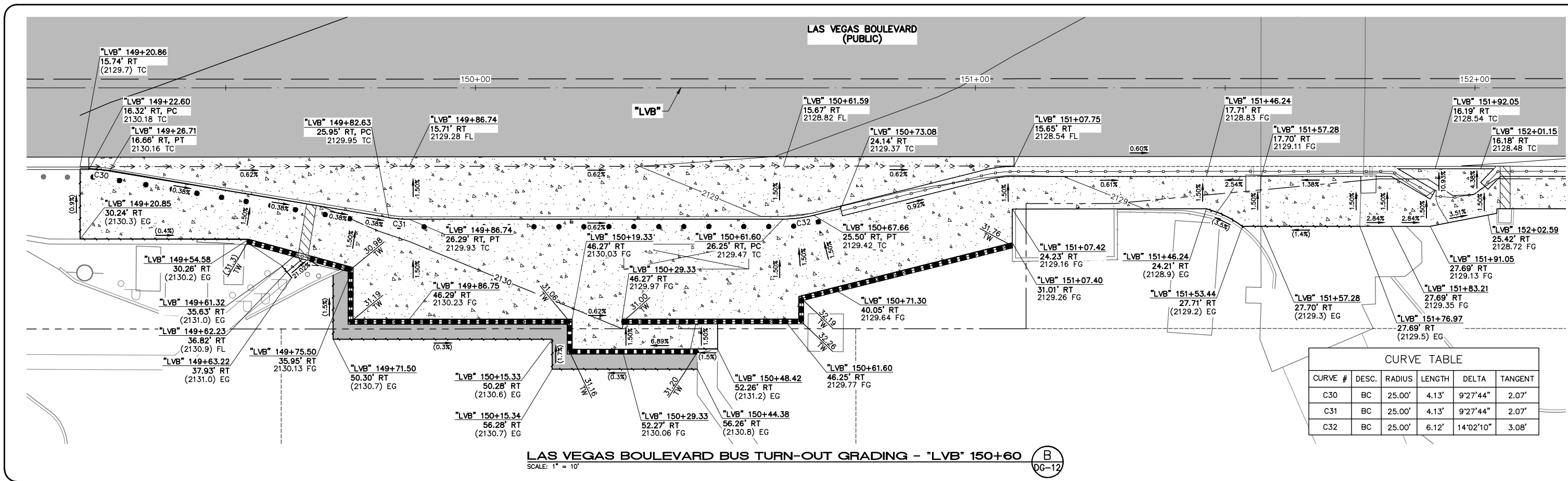
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

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

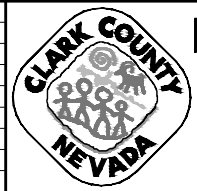
DRAWING NO.
DG-11
 SHT. 79 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21



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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
GRADING DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

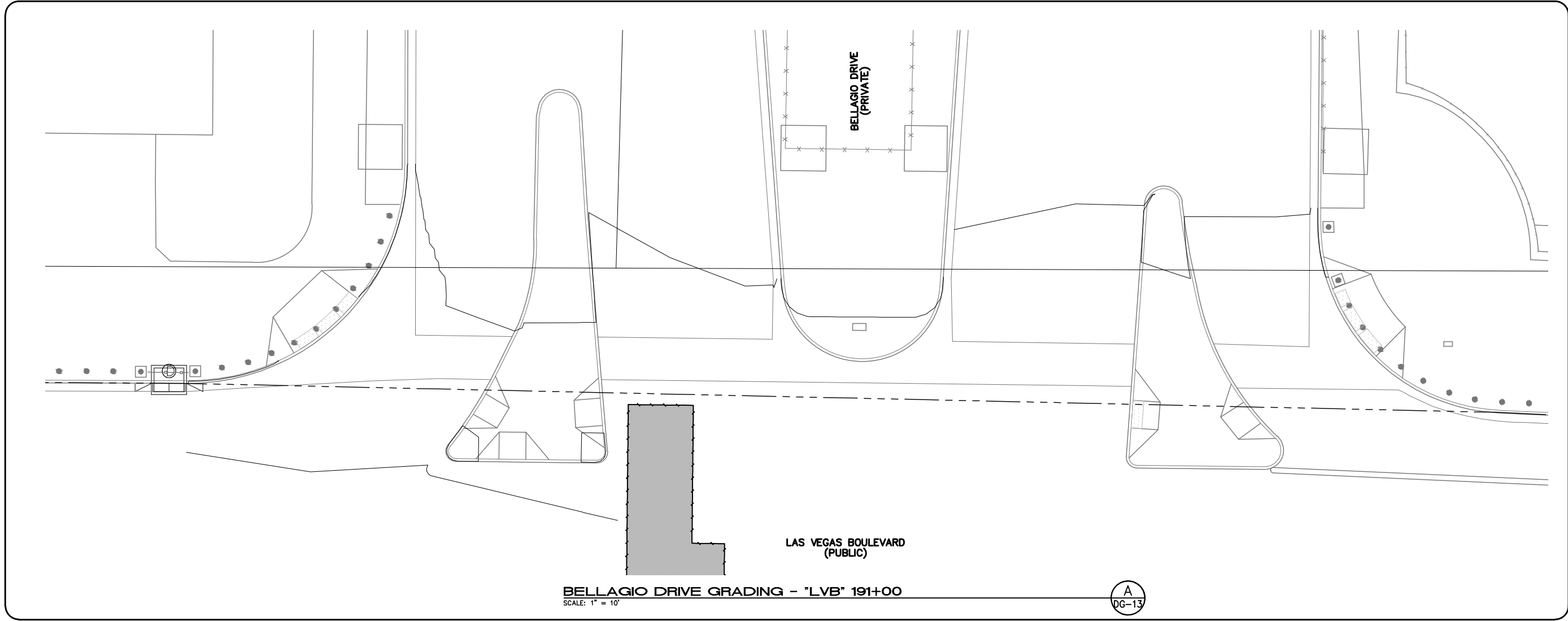
GCV
 ENGINEERS & SURVEYORS

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 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-12
VERT: NONE	SHT. 80 OF 169
FIELD BOOK	L-2304

BID NO.: 605978-21

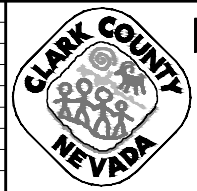
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BELLAGIO DRIVE GRADING - "LVB" 191+00
SCALE: 1" = 10'

A
DG-13

REV. NO.	DATE	DESCRIPTION	APPROVED



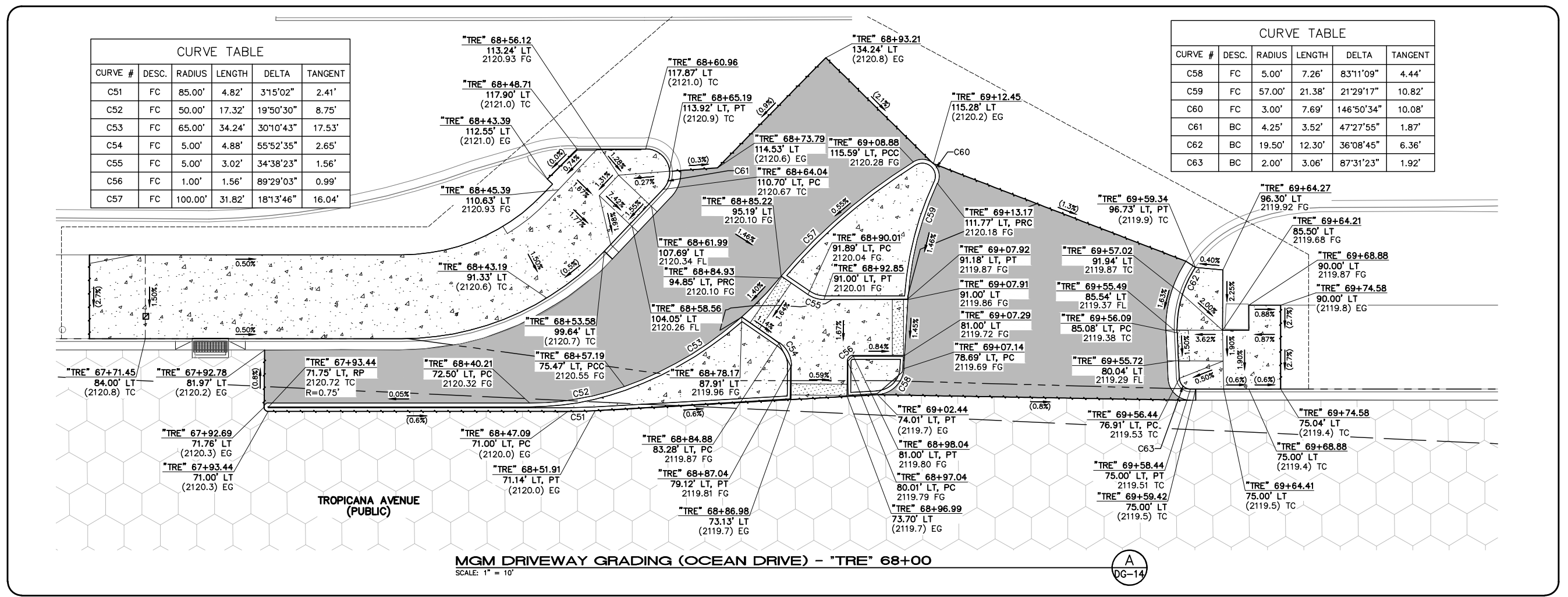
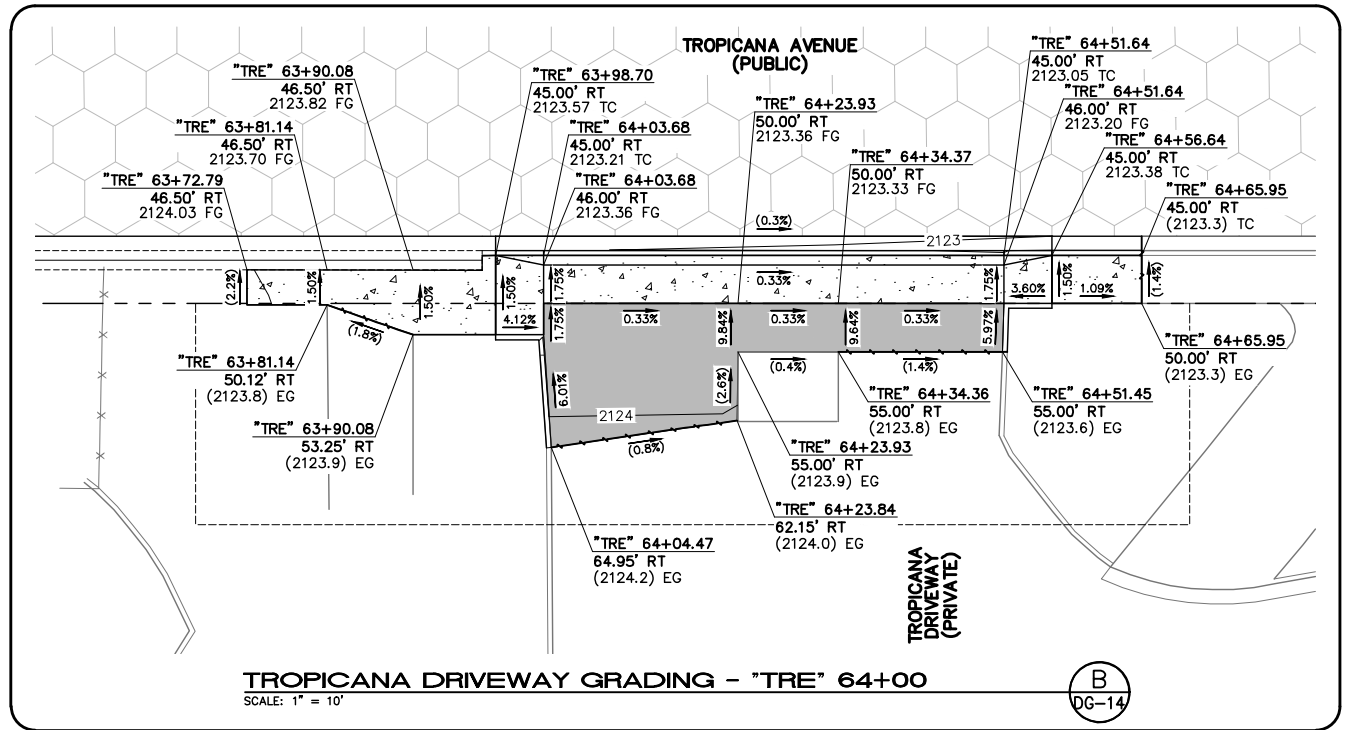
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
GRADING DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



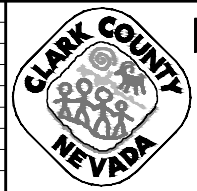
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-13
VERT: NONE	SHT. 81 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
BID NO.: 605978-21



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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
GRADING DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



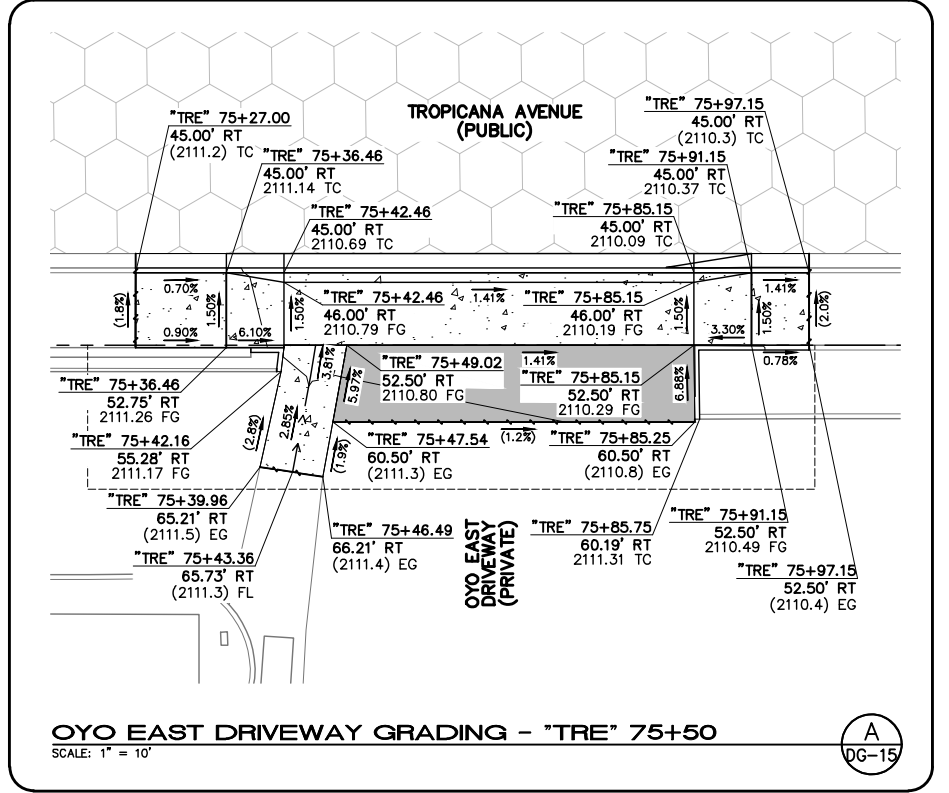
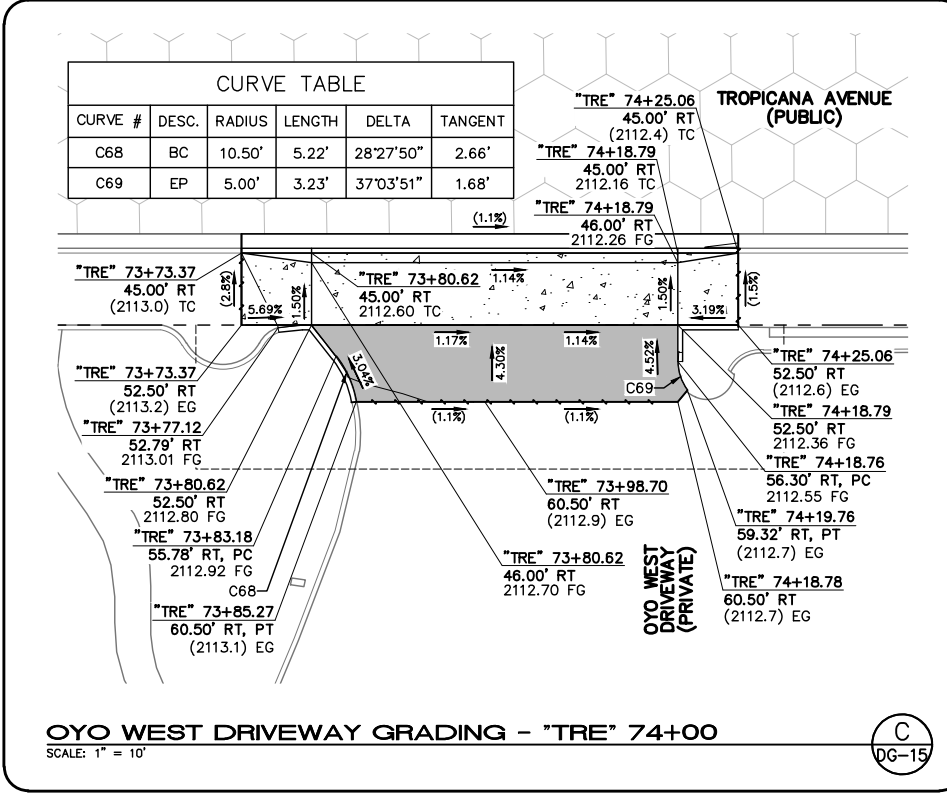
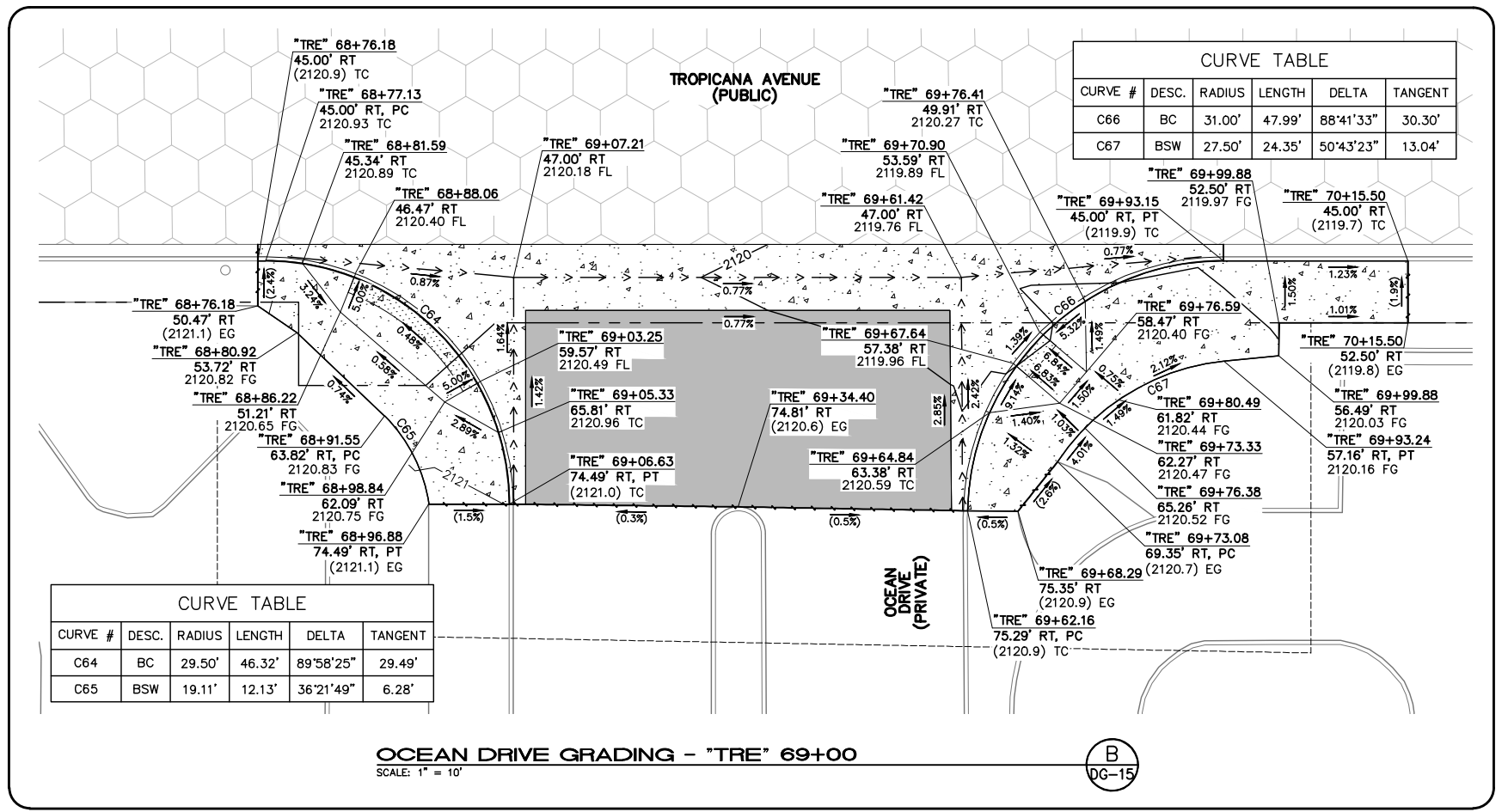
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 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-14
VERT: NONE	SHT. 82 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
GRADING DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



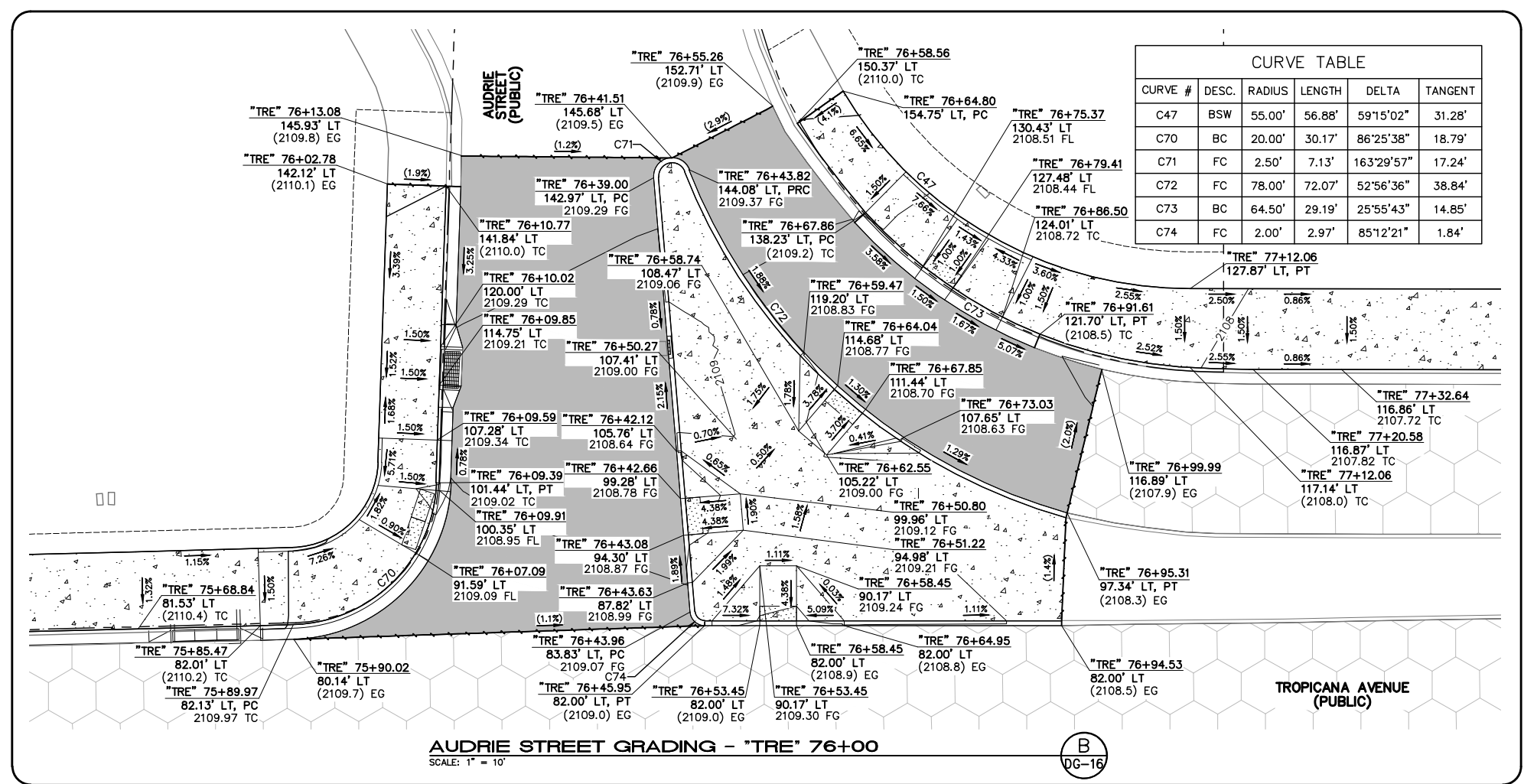
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-15
VERT: NONE	SHT. 83 OF 169
FIELD BOOK	L-2304

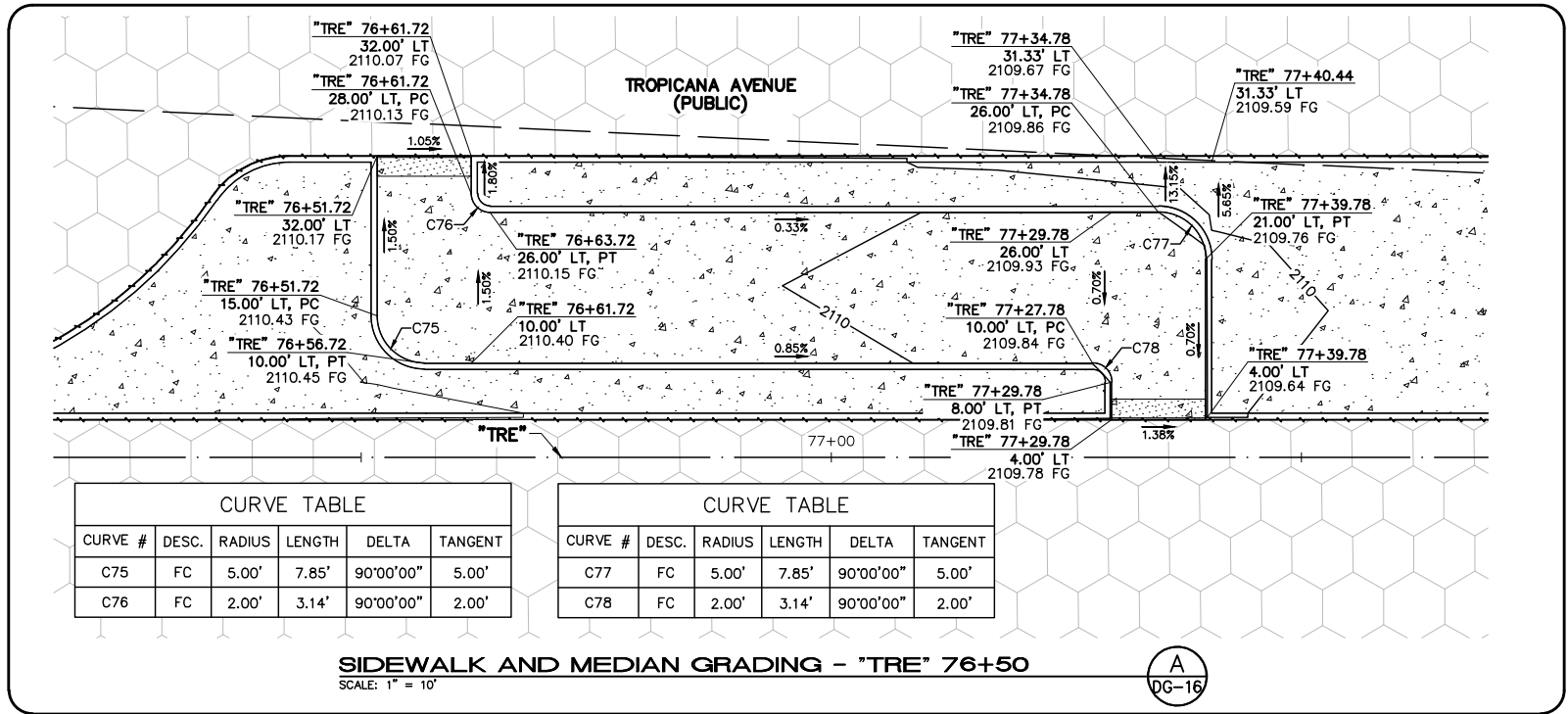
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

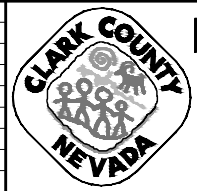
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AUDRIE STREET GRADING - "TRE" 76+00
SCALE: 1" = 10'



SIDEWALK AND MEDIAN GRADING - "TRE" 76+50
SCALE: 1" = 10'



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
GRADING DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



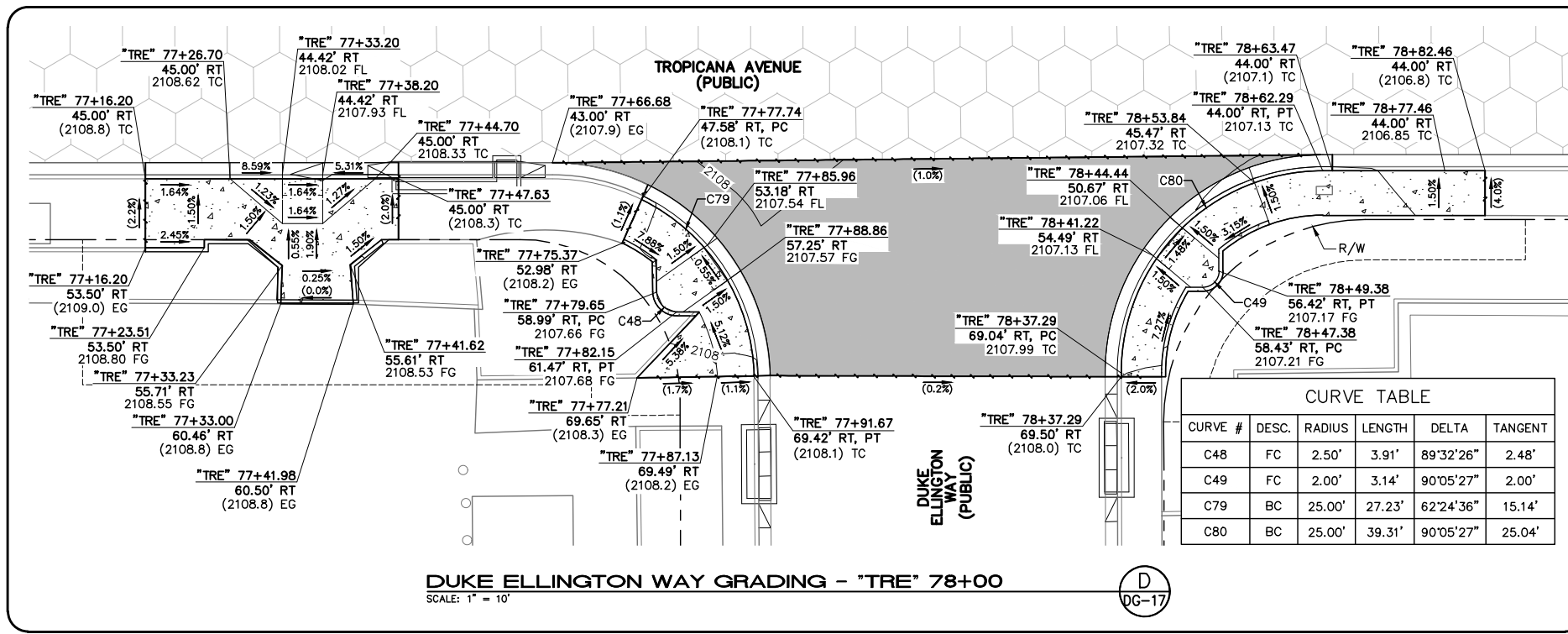
PROJECT No: 500-897-LV-EF DRAWN BY: MVD
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: [Signature]
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-16
VERT: NONE	SHT. 84 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

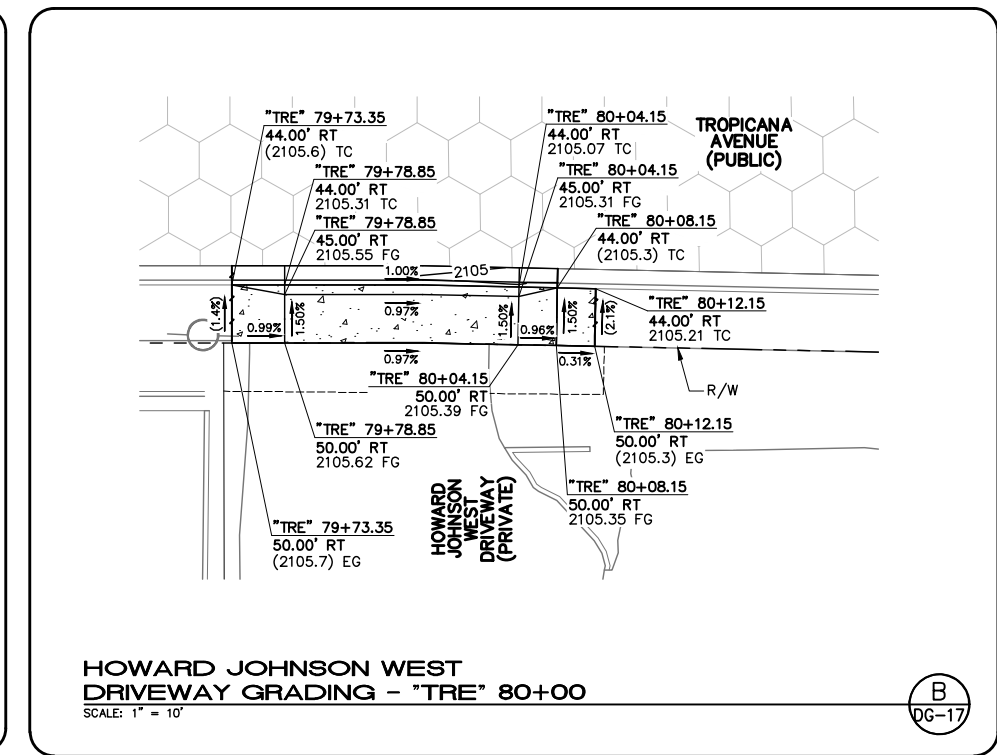
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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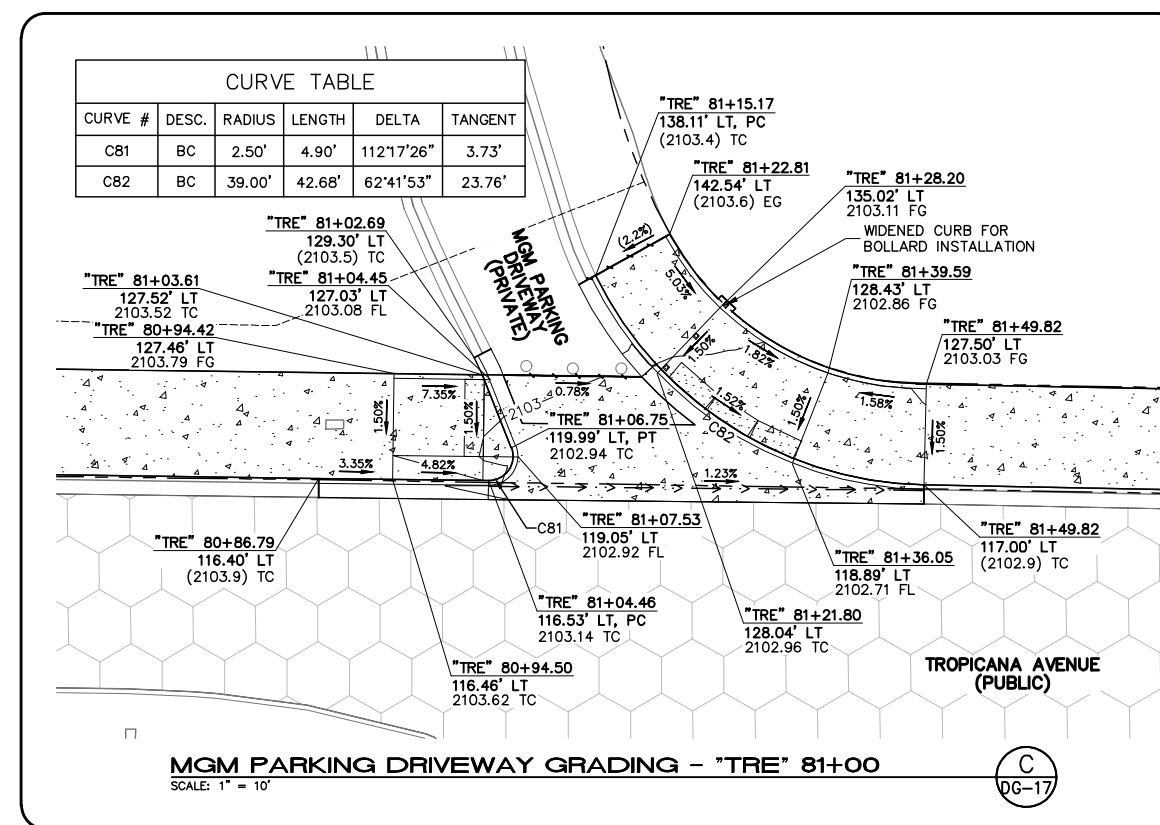
DUKE ELLINGTON WAY GRADING - "TRE" 78+00
SCALE: 1" = 10'

D
DG-17



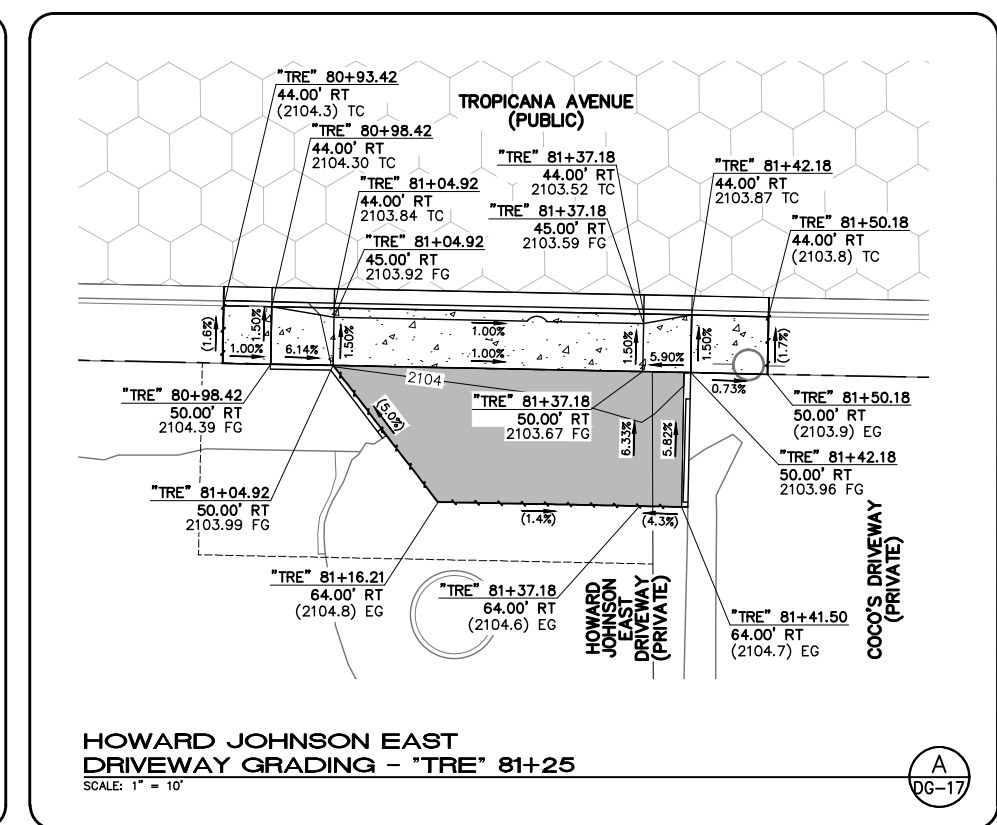
HOWARD JOHNSON WEST DRIVEWAY GRADING - "TRE" 80+00
SCALE: 1" = 10'

B
DG-17



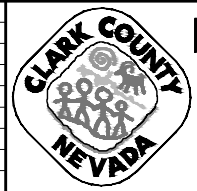
MGM PARKING DRIVEWAY GRADING - "TRE" 81+00
SCALE: 1" = 10'

C
DG-17



HOWARD JOHNSON EAST DRIVEWAY GRADING - "TRE" 81+25
SCALE: 1" = 10'

A
DG-17



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
 GRADING DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

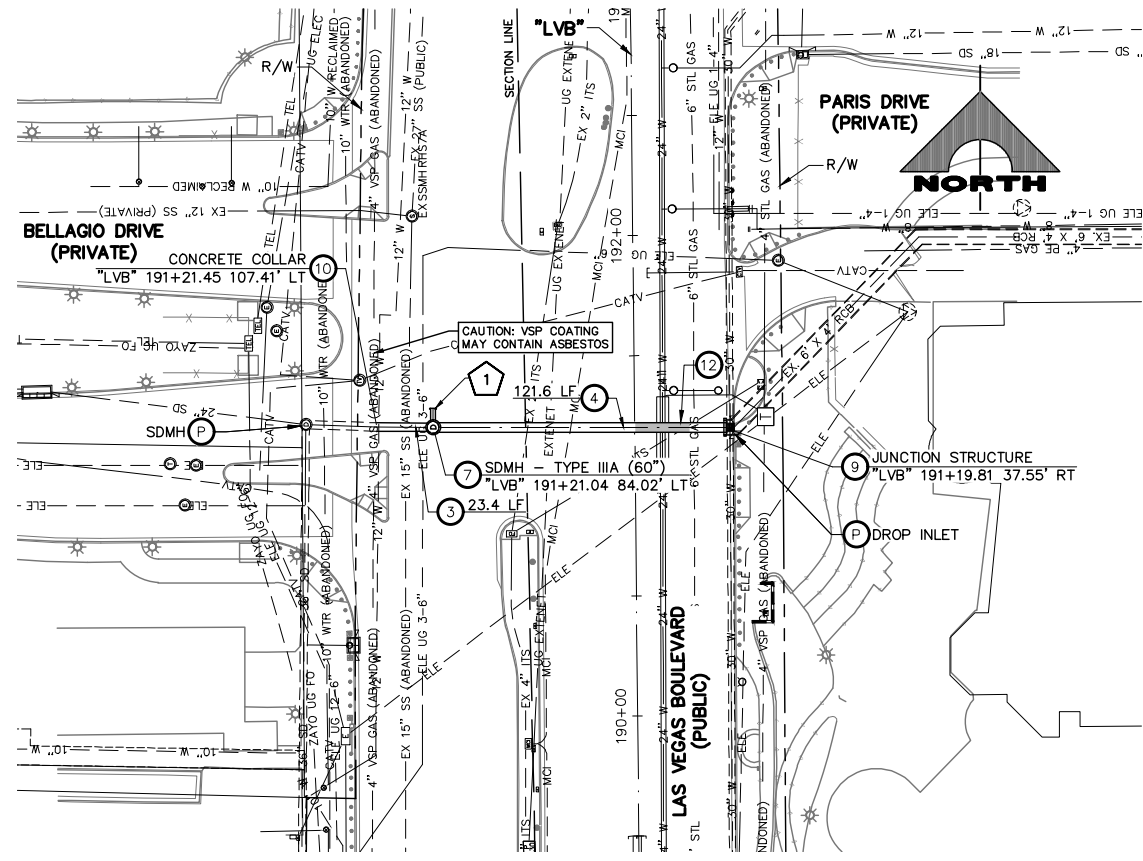


PROJECT No: 500-897-LV-EF DRAWN BY: MVD
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV
 ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DG-17
VERT: NONE	SHT. 85 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

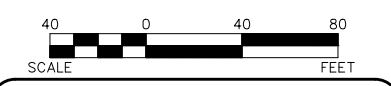
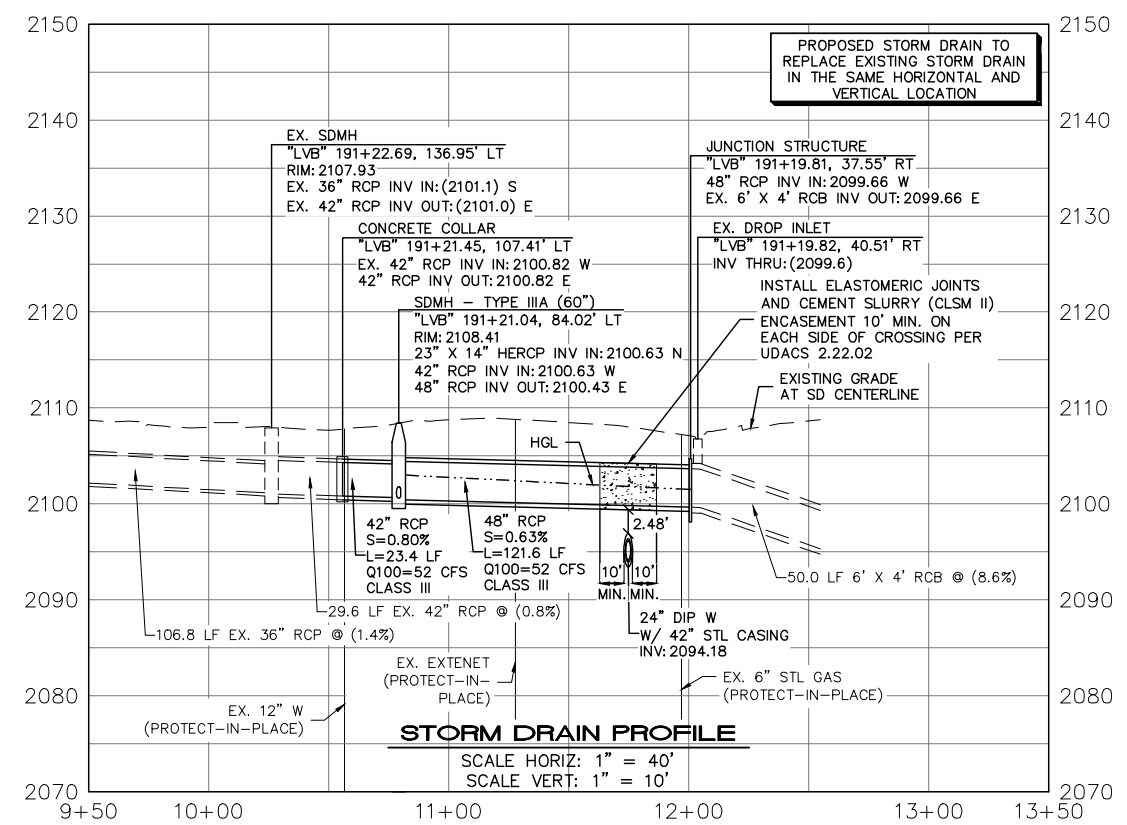
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



- ### STORM DRAIN NOTES
- 1 NOT USED
 - 2 NOT USED
 - 3 INSTALL 42-INCH RCP STORM DRAIN
 - 4 INSTALL 48-INCH RCP STORM DRAIN
 - 5 INSTALL 23"x14" HERCP STORM DRAIN
 - 6 NOT USED
 - 7 INSTALL TYPE IIIA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 406.1)
 - 8 NOT USED
 - 9 CONSTRUCT JUNCTION STRUCTURE (SEE DETAIL 1, DWG. S-1)
 - 10 CONSTRUCT CONCRETE COLLAR TO CONNECT TO EXISTING STORM DRAIN (SEE DETAIL 3, DWG. S-1)
 - 11 INSTALL PRECAST STORM DRAIN PLUG
 - 12 INSTALL ELASTOMERIC JOINTS AND CEMENT SLURRY (CLSM II) ENCASUREMENT 10' MIN. ON EACH SIDE OF THE CROSSING PER UDACS 2.22.02
 - 13 PROTECT-IN-PLACE
- ### NOTES
1. SEE R-DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, AND INLETS.
 2. ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
 3. 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.
 4. ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.

LEGEND

X SEE STORM DRAIN PROFILES SD-2



SOUTHWEST GAS VALVE NOTE

FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CONRD PIPES NUMBER: 21.983
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

DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22



F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_10_SD_Sheets.dwg



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

STORM DRAIN PLAN AND PROFILE

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



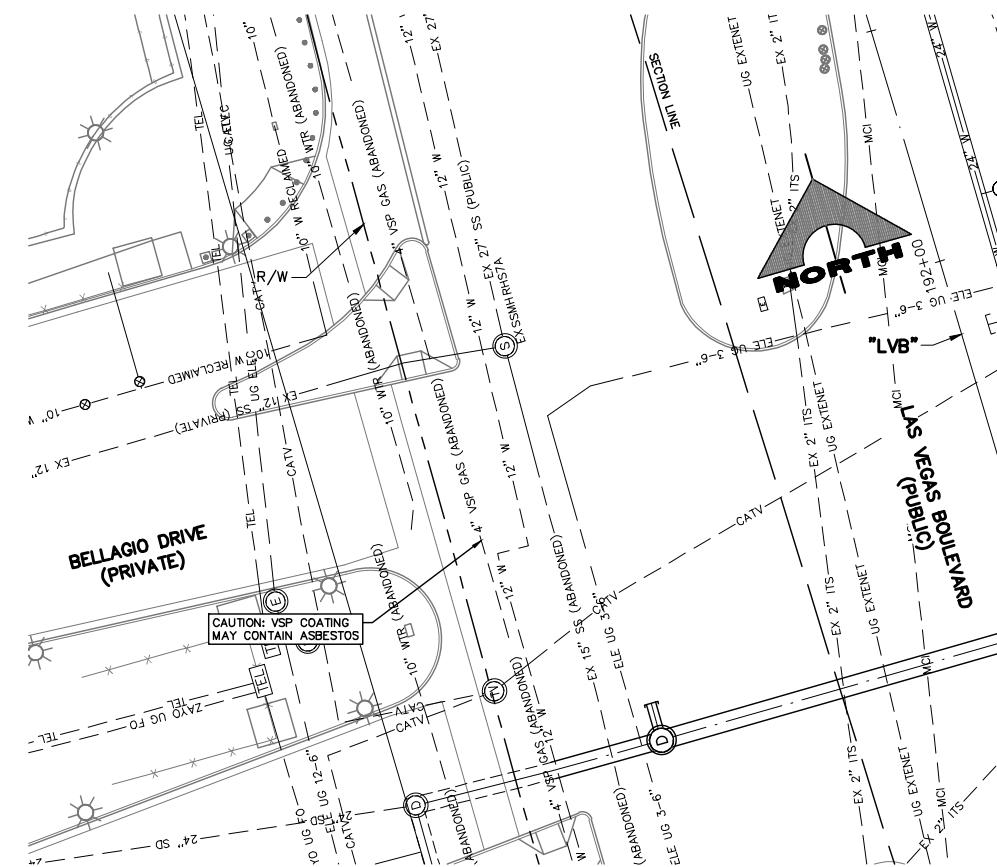
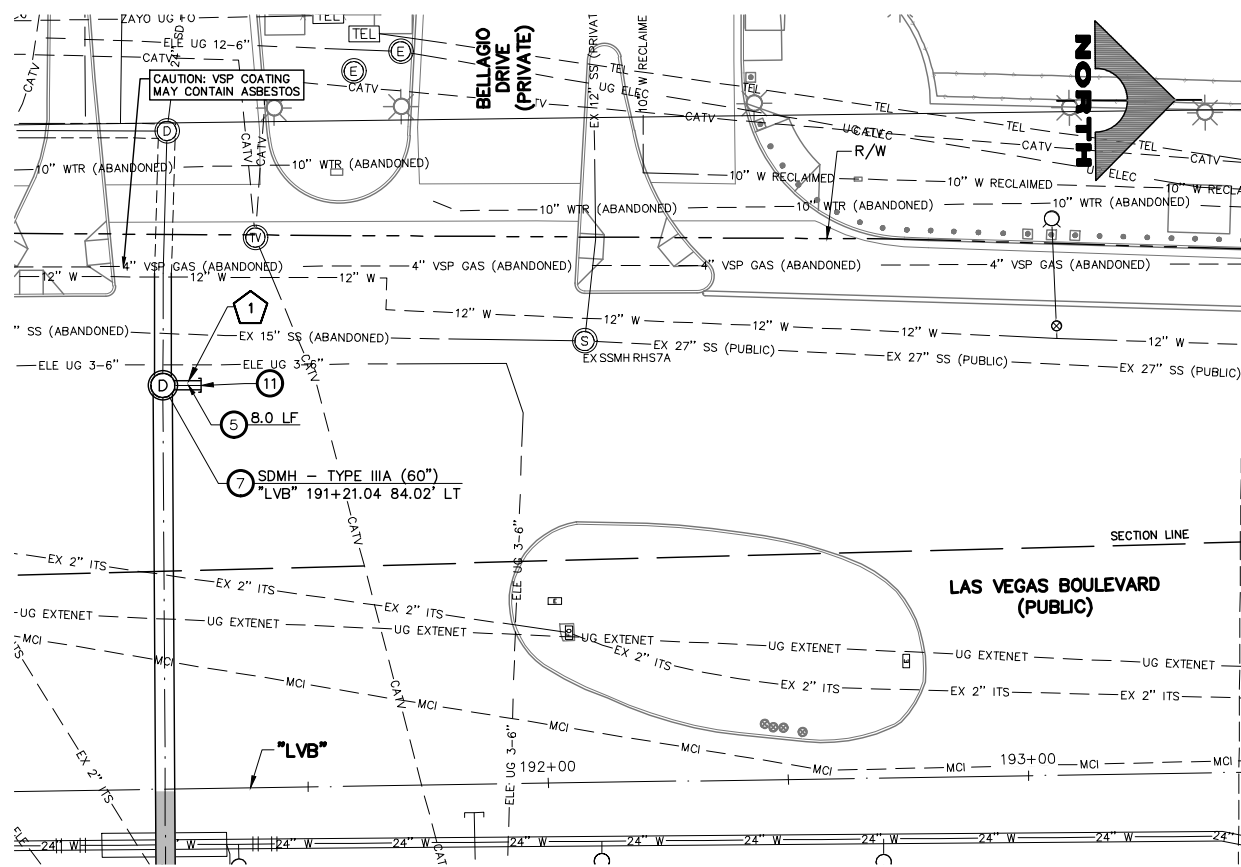
PROJECT No: 500-897-LV-EF DRAWN BY: JDS
DESIGNED BY: JDS CHECKED BY: WLF
APPROVED BY: _____

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	SD-1
VERT: AS SHOWN	SHT. 86 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

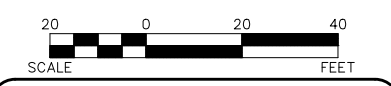
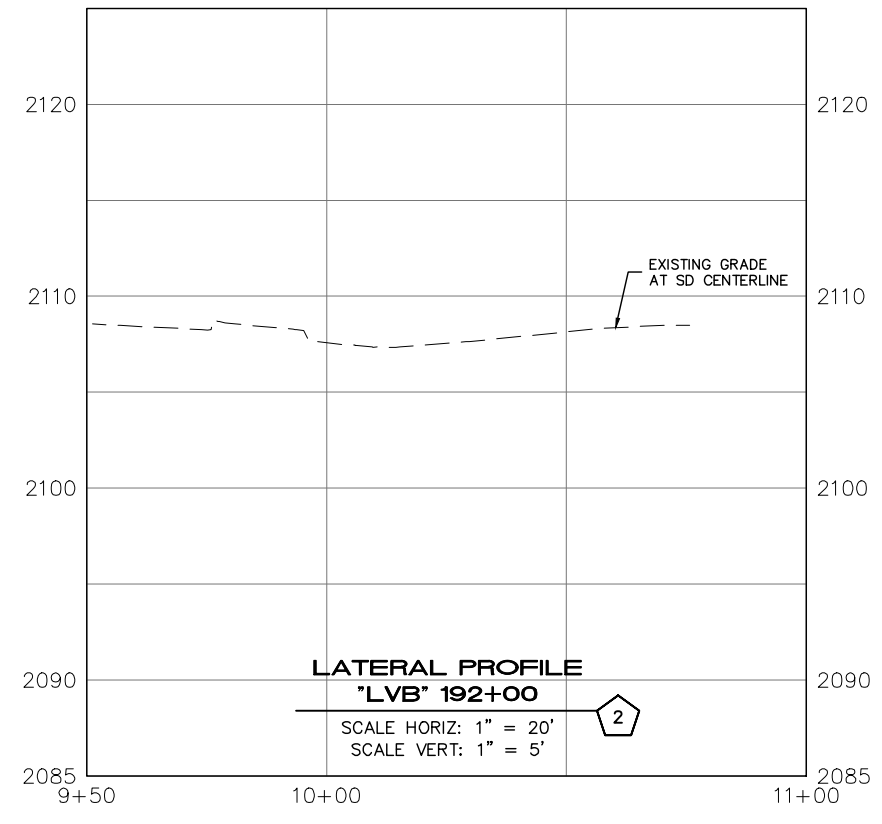
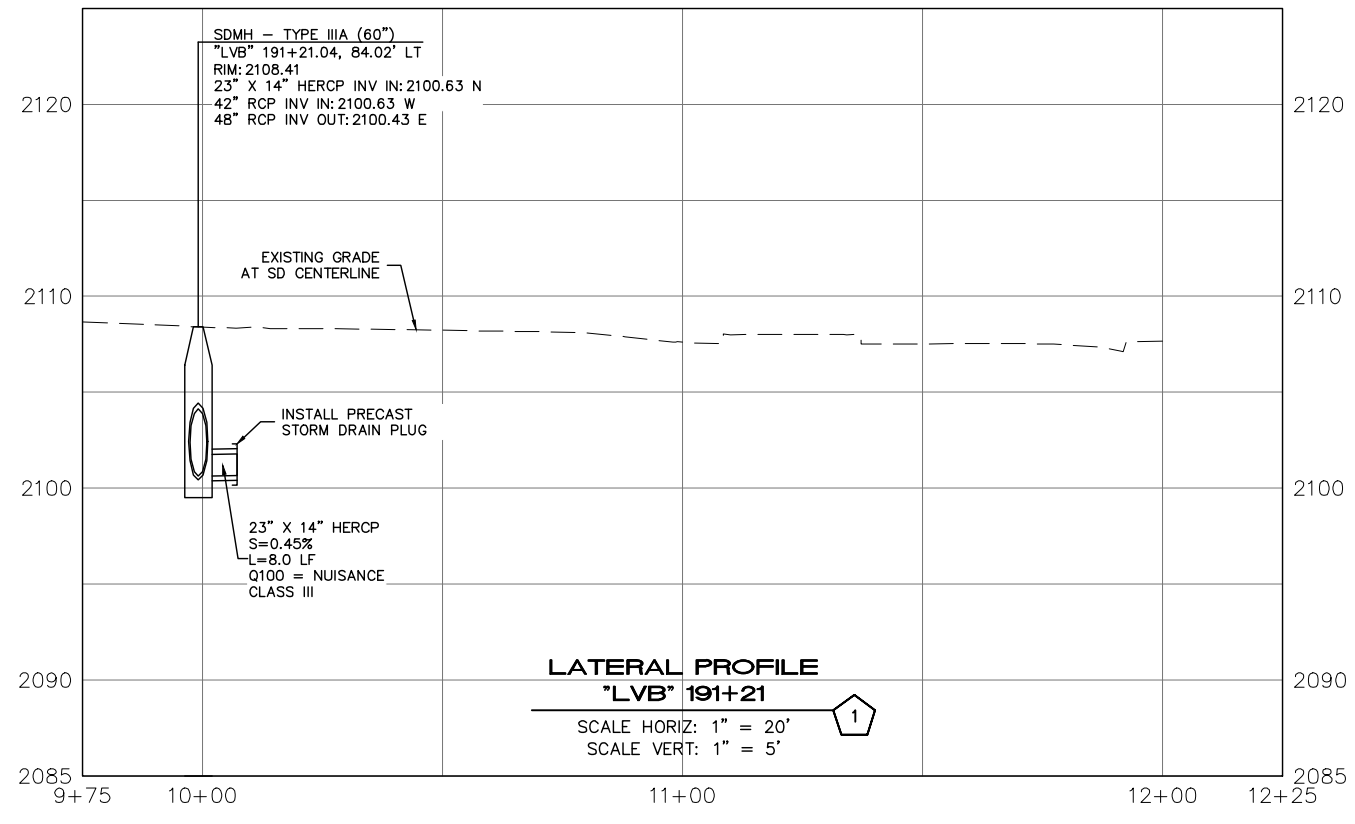
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### STORM DRAIN NOTES
- 1 NOT USED
 - 2 NOT USED
 - 3 INSTALL 42-INCH RCP STORM DRAIN
 - 4 INSTALL 48-INCH RCP STORM DRAIN
 - 5 INSTALL 23"x14" HERCP STORM DRAIN
 - 6 NOT USED
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 - 13 PROTECT-IN-PLACE
- ### NOTES
1. SEE R-DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, AND INLETS.
 2. ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
 3. 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.
 4. ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.

LEGEND

X SEE STORM DRAIN PROFILES SD-2



SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881
14 DAYS PRIOR TO CONSTRUCTION.

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CONRD PIPES NUMBER: 21.983
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
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22



F:\Projects\5000\5000-897-LV-EF\DWG\Production\VEF_10_SD_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STORM DRAIN PLAN AND PROFILE
LATERALS 1 & 2
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



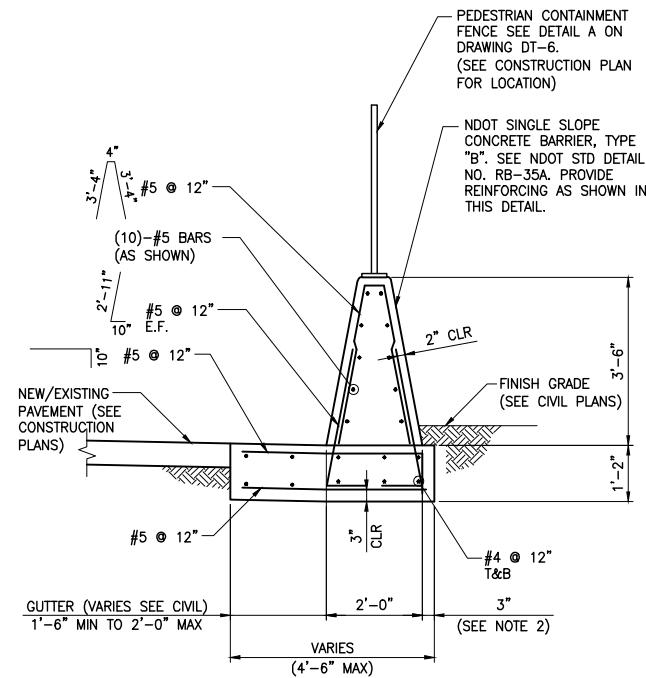
PROJECT No: 500-897-LV-EF DRAWN BY: JDS
DESIGNED BY: JDS CHECKED BY: WLF
APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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gcvengineering.com

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK
DRAWING NO.
SD-2
SHT. 87 OF 169
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

GENERAL STRUCTURAL NOTES

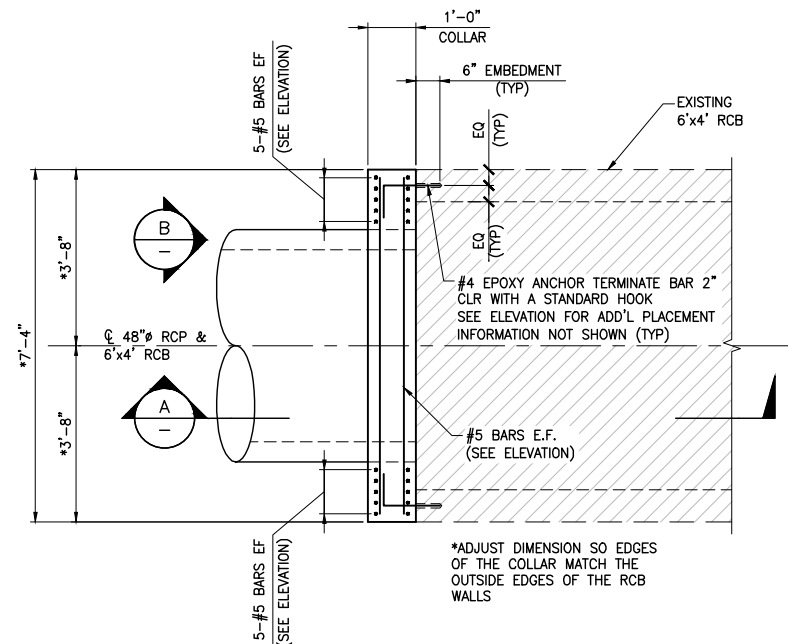
- DESIGN SPECIFICATIONS: INTERNATIONAL BUILDING CODE, 2018 EDITION
- CONSTRUCTION SPECIFICATIONS: UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA.
- EXISTING UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES 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.
- 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%.
- EPOXY: EPOXY SHALL BE SIMPSON STRONG-TIE "SET-XP EPOXY-TIE ADHESIVE" PER ICC REPORT ESR-2508 OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- 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.



- NOTES:
 1. SEE CIVIL PLANS FOR SCUPPER AND WEEPHOLE DETAILS
 2. WHERE PROPERTY LINE IS PRESENT 3" MAY BE ELIMINATED

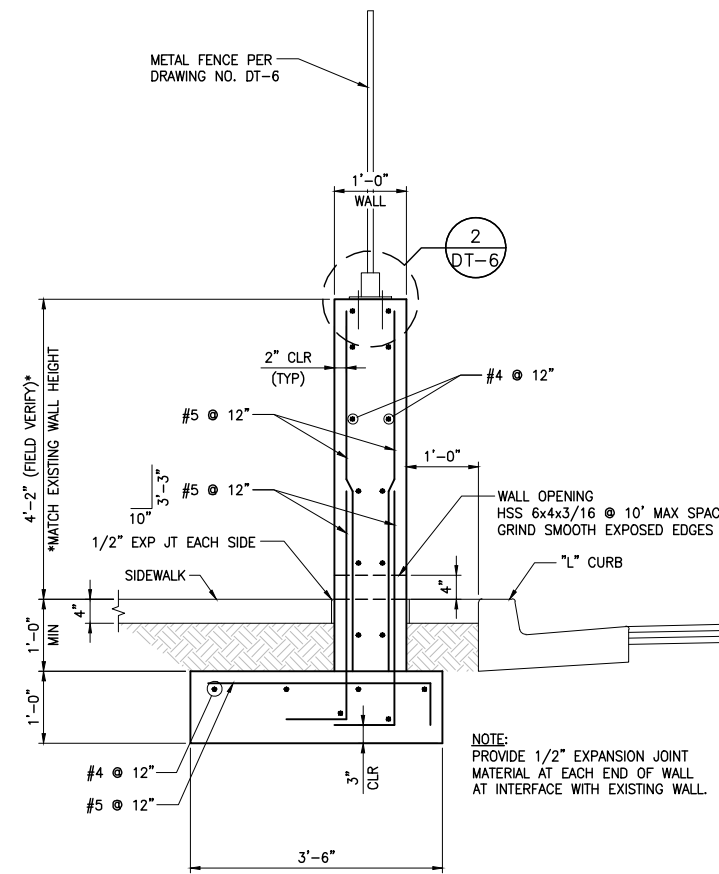
4 BARRIER (MODIFIED TYPE B)

SCALE: 1/2" = 1'-0"



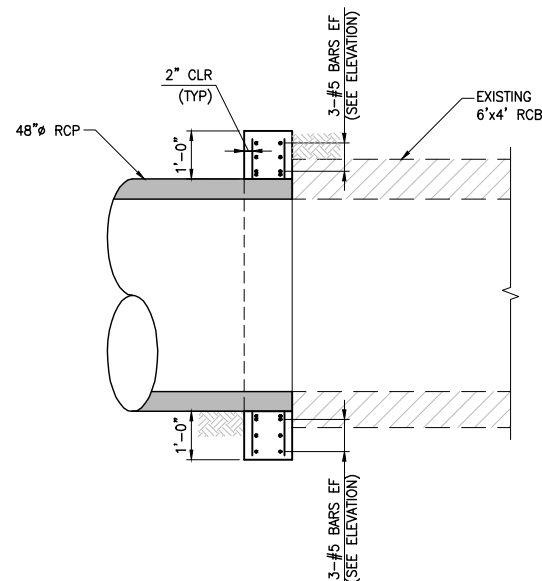
1 PLAN - RCP TO RCB JUNCTION

SCALE: 1/2" = 1'-0"



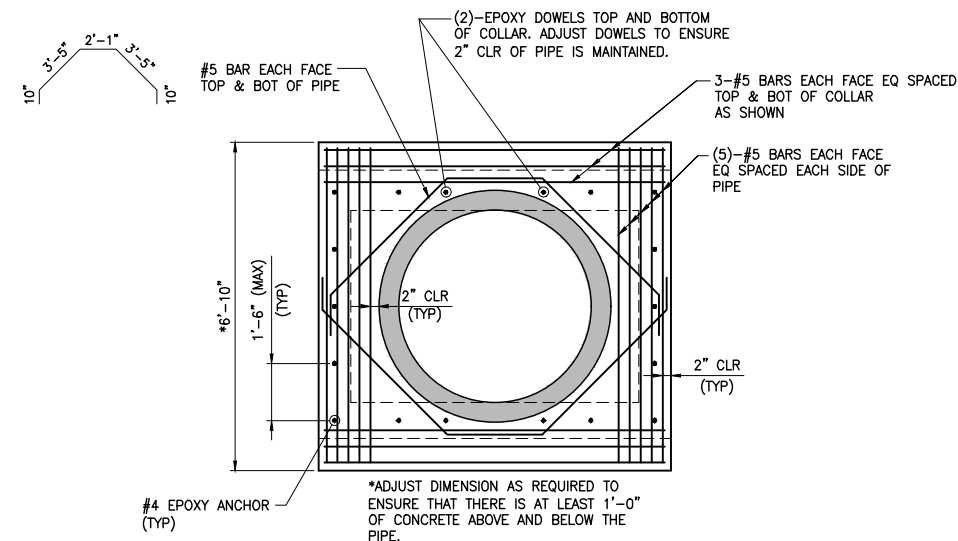
2 CONCRETE WALL SECTION

SCALE: 3/4" = 1'-0"



A SECTION

SCALE: 1/2" = 1'-0"

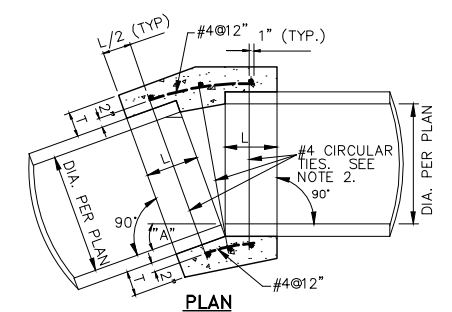


B ELEVATION

SCALE: 1/2" = 1'-0"

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.



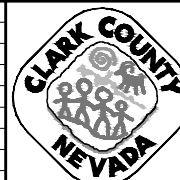
CIRCULAR TIES:

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"

3 PIPE COLLAR DETAIL

SCALE: NTS

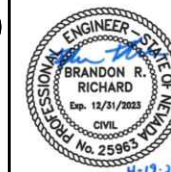
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

STRUCTURAL DETAILS I

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

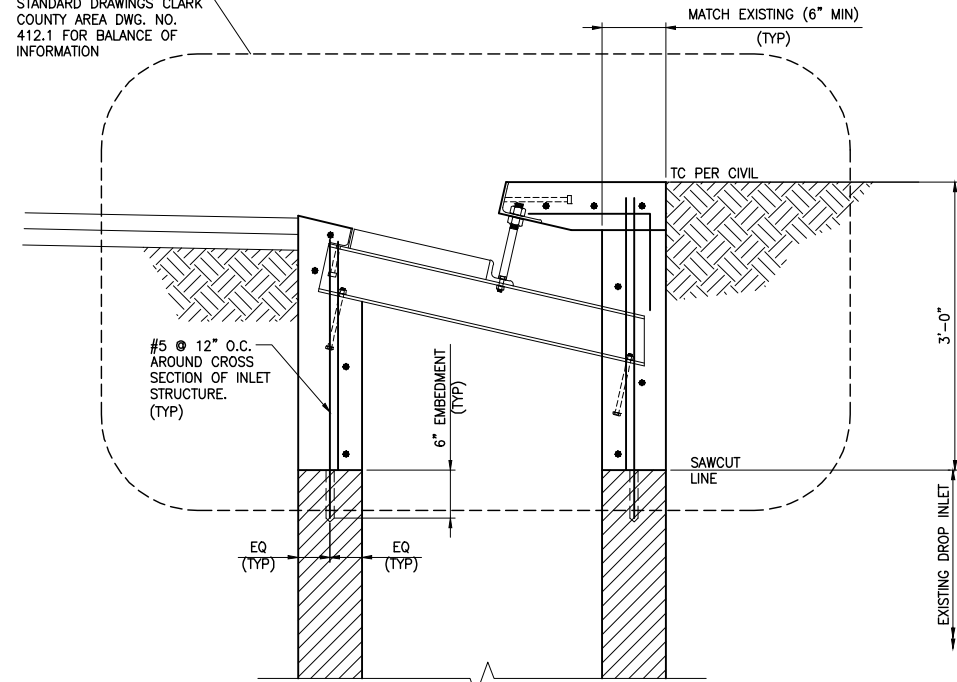


PROJECT No: 500-897-LV-EF DRAWN BY: DAT
 DESIGNED BY: DAT CHECKED BY: EGG
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	S-1
VERT: NONE	SHT. 88 OF 169
FIELD BOOK	L-2304

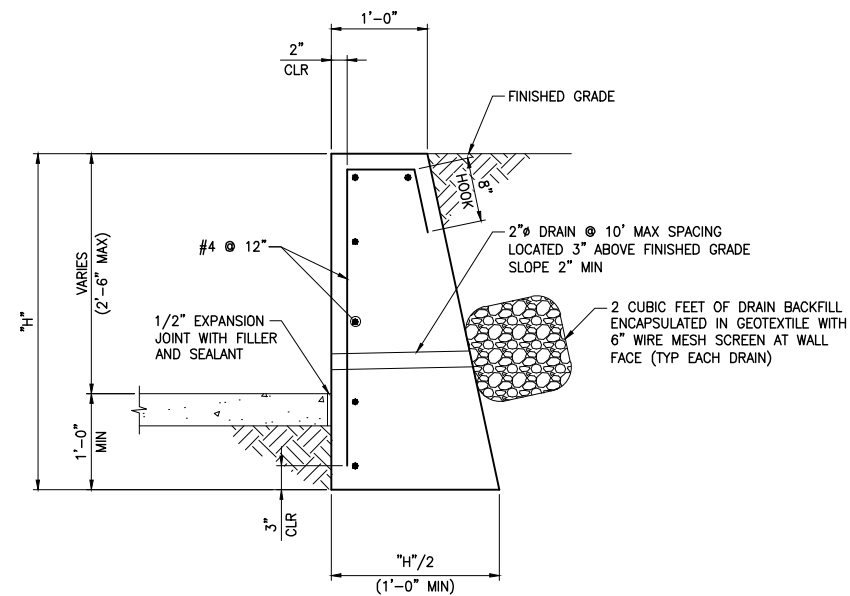
REV. NO.	DATE	DESCRIPTION	APPROVED

REFER TO UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA DWG. NO. 412.1 FOR BALANCE OF INFORMATION

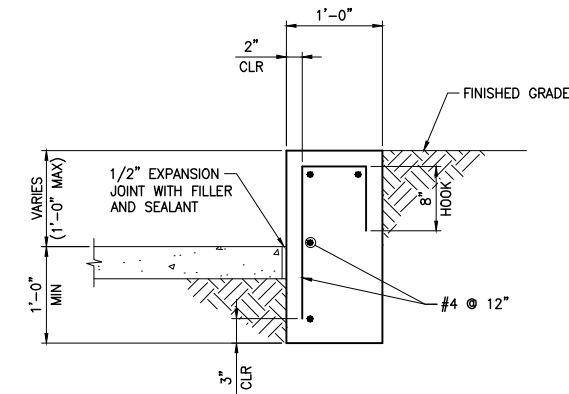


- NOTES:
1. SAWCUT AND REMOVE TOP 3'-0" OF EXISTING DROP INLET. TAKE CARE TO PROTECT THE EXISTING DROP INLET IN PLACE.
 2. REPLACE THE TOP 3'-0" OF THE INLET WITH STANDARD "DM2" DROP INLET PER USRCCA DWG NO 412.1.

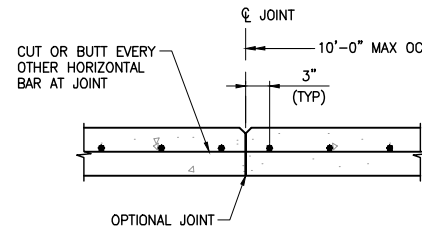
5 DROP INLET MODIFICATION
SCALE: NTS



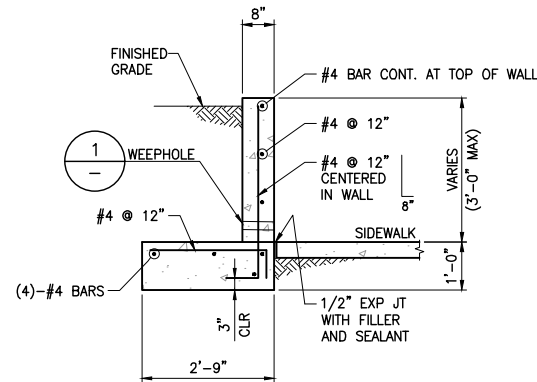
C RETAINING WALL SECTION
SCALE: NTS



B RETAINING WALL SECTION
SCALE: NTS



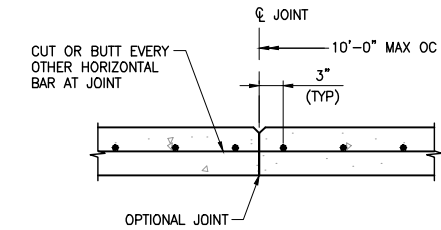
4 WALL CONTROL JOINT DETAIL
SCALE: 1" = 1'-0"



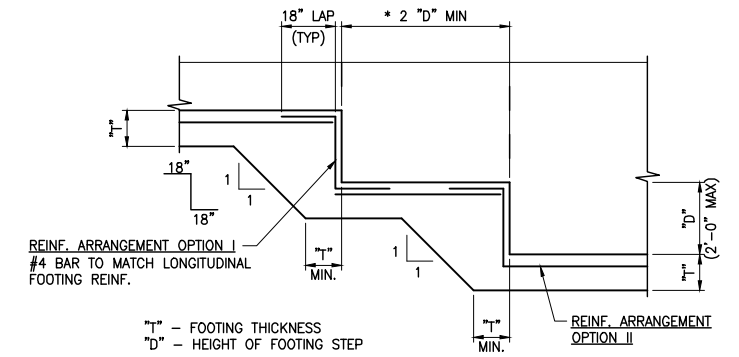
A TYP RETAINING WALL SECTION
SCALE: 1/2" = 1'-0"

RETAINING WALL NOTES

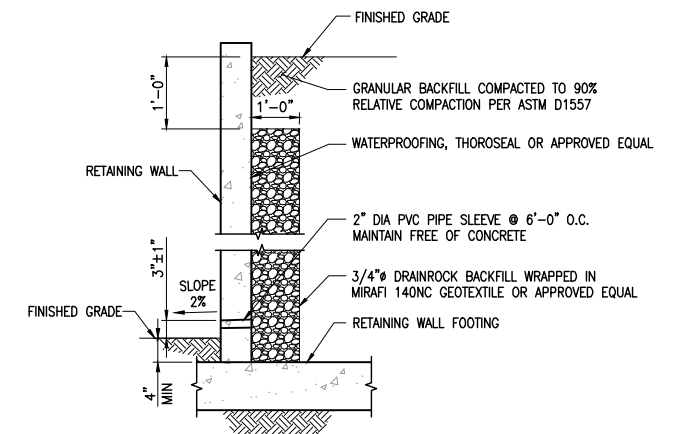
1. REFER TO GENERAL STRUCTURAL NOTES ON S-1.
2. PROVIDE WALL EXPANSION JOINTS AT 30'-0" MAX SPACING AND WALL CONTROL JOINTS AT 10'-0" MAX SPACING PER TYPICAL DETAILS.



3 WALL EXPANSION JOINT
SCALE: 1" = 1'-0"

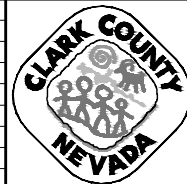


2 FOOTING STEP DETAIL
SCALE: NTS

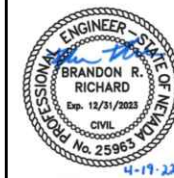


1 WEEPHOLE DETAIL
SCALE: NTS

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STRUCTURAL DETAILS II
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



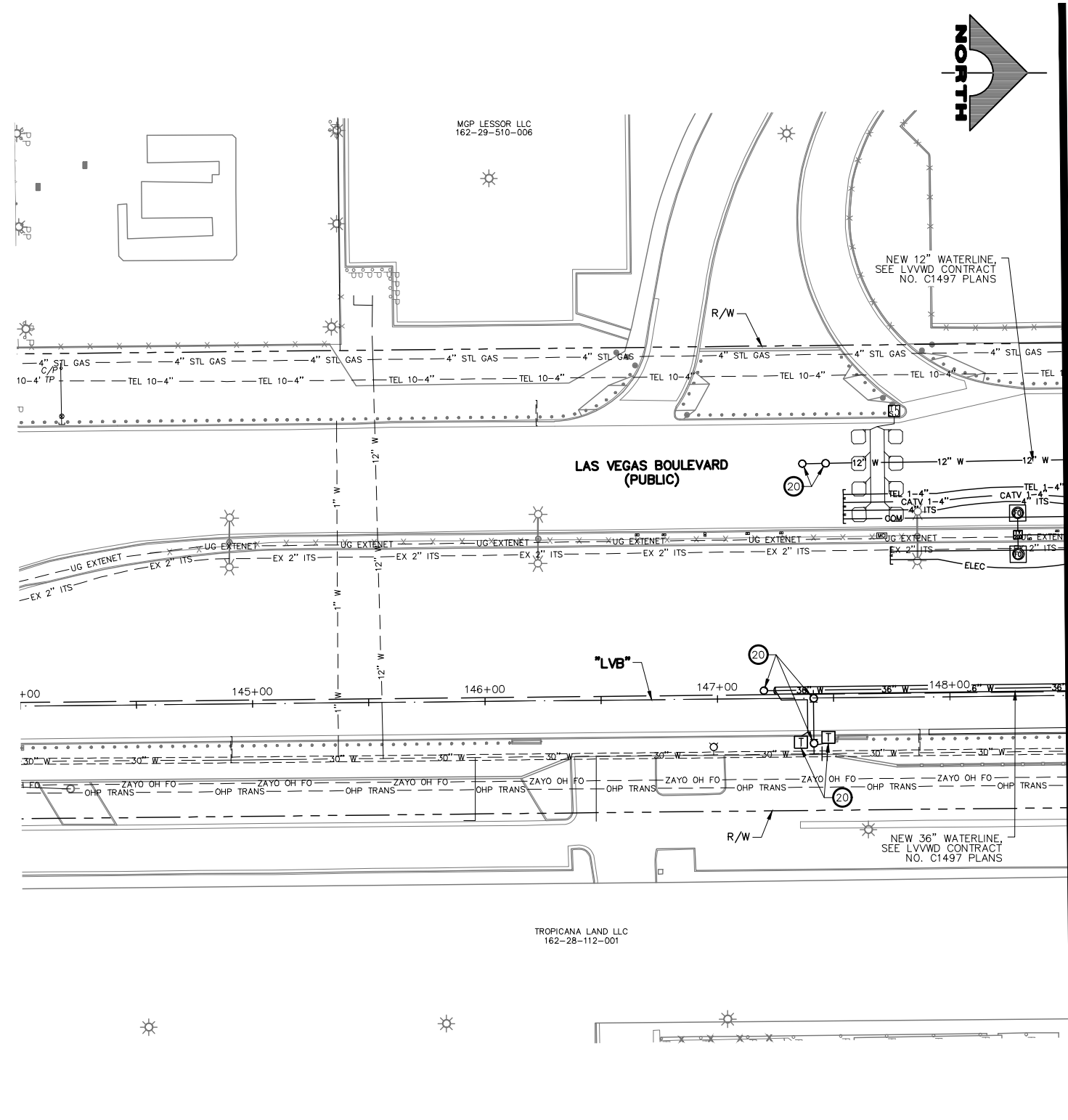
PROJECT No: 500-897-LV-EF DRAWN BY: DAT
DESIGNED BY: DAT CHECKED BY: EGG
APPROVED BY: _____
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	S-2
VERT: NONE	SHT. 89 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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SEE DRAWING NO. U-2
MATCHLINE
"LVB" 148+50.00

UTILITY NOTES

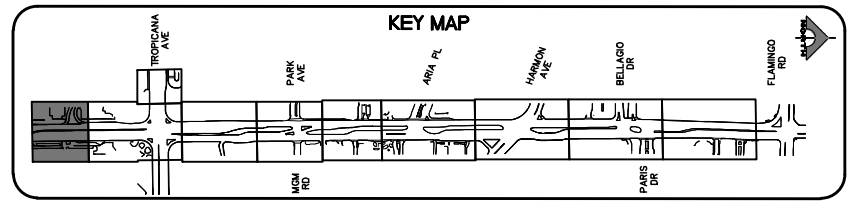
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
 - 2 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
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 - 14 INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
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 - 16 RELOCATE CATV VAULT (BY COX)
 - 17 ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
 - 18 ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
 - 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
 - 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
 - 21 NOT USED
 - 22 NOT USED
 - 23 NOT USED
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 - 25 REMOVE WATERLINE
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 - 27 ADJUST TELEPHONE VAULT (BY CENTURYLINK)
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 - 31 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
 - 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
 - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
 - 34 NOT USED
- (P) PROTECT-IN-PLACE
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



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
14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22



REV. NO.	DATE	DESCRIPTION	APPROVED



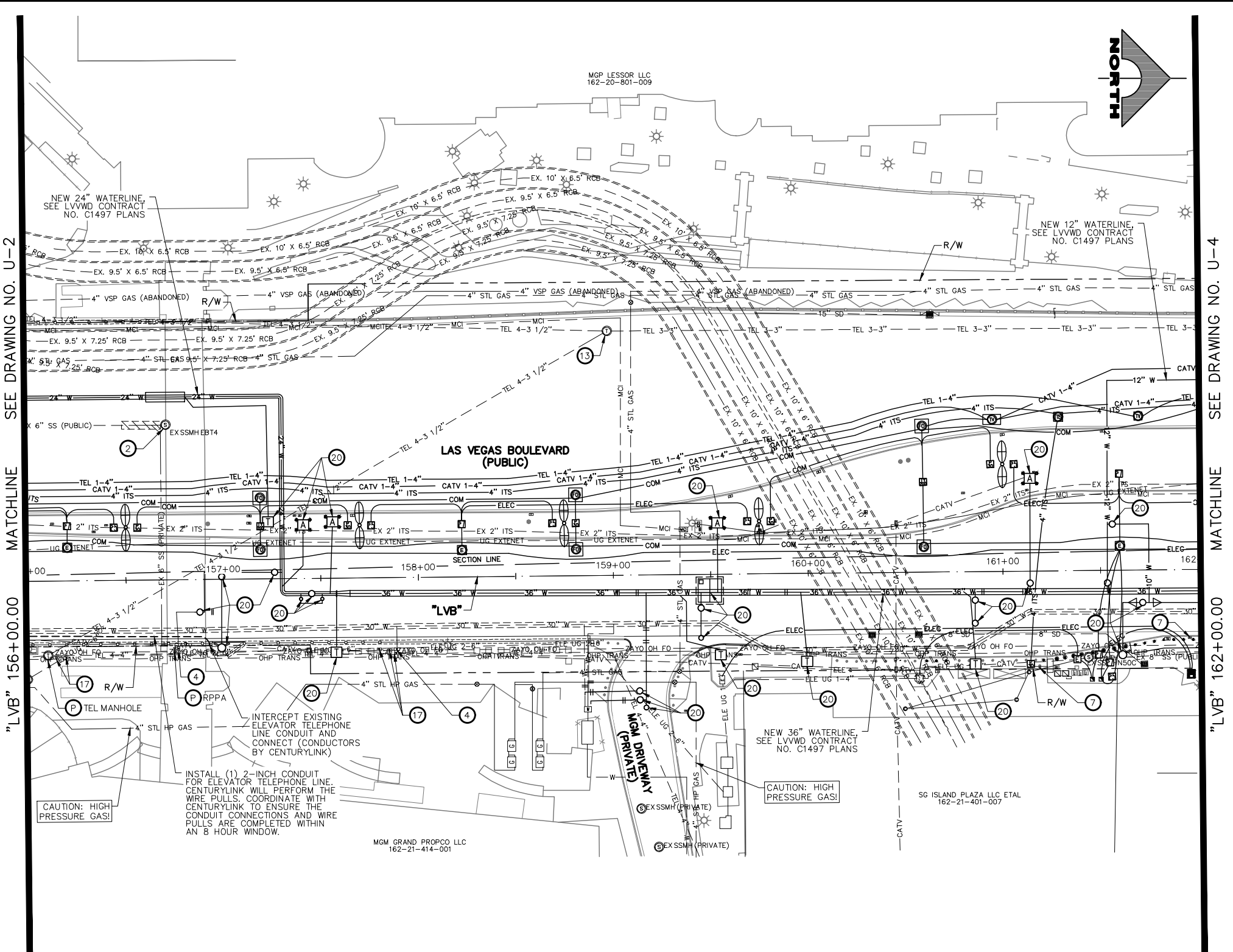
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
UTILITY PLAN
"LVB" 144+00.00 TO "LVB" 148+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MS
DESIGNED BY: DSH CHECKED BY: WLF
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	U-1
VERT: NONE	SHT. 90 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
BD NO.: 605978-21



- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
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 - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
 - 34 NOT USED
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



SEE DRAWING NO. U-2

SEE DRAWING NO. U-4

"LVB" 156+00.00

"LVB" 162+00.00

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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 14 DAYS 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.

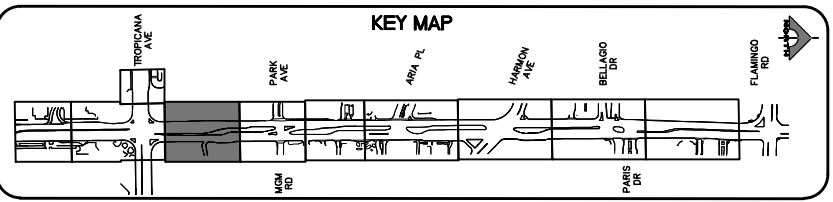
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMUJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

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 - TROPICANA AVE TO FLAMINGO RD

UTILITY PLAN

"LVB" 156+00.00 TO "LVB" 162+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



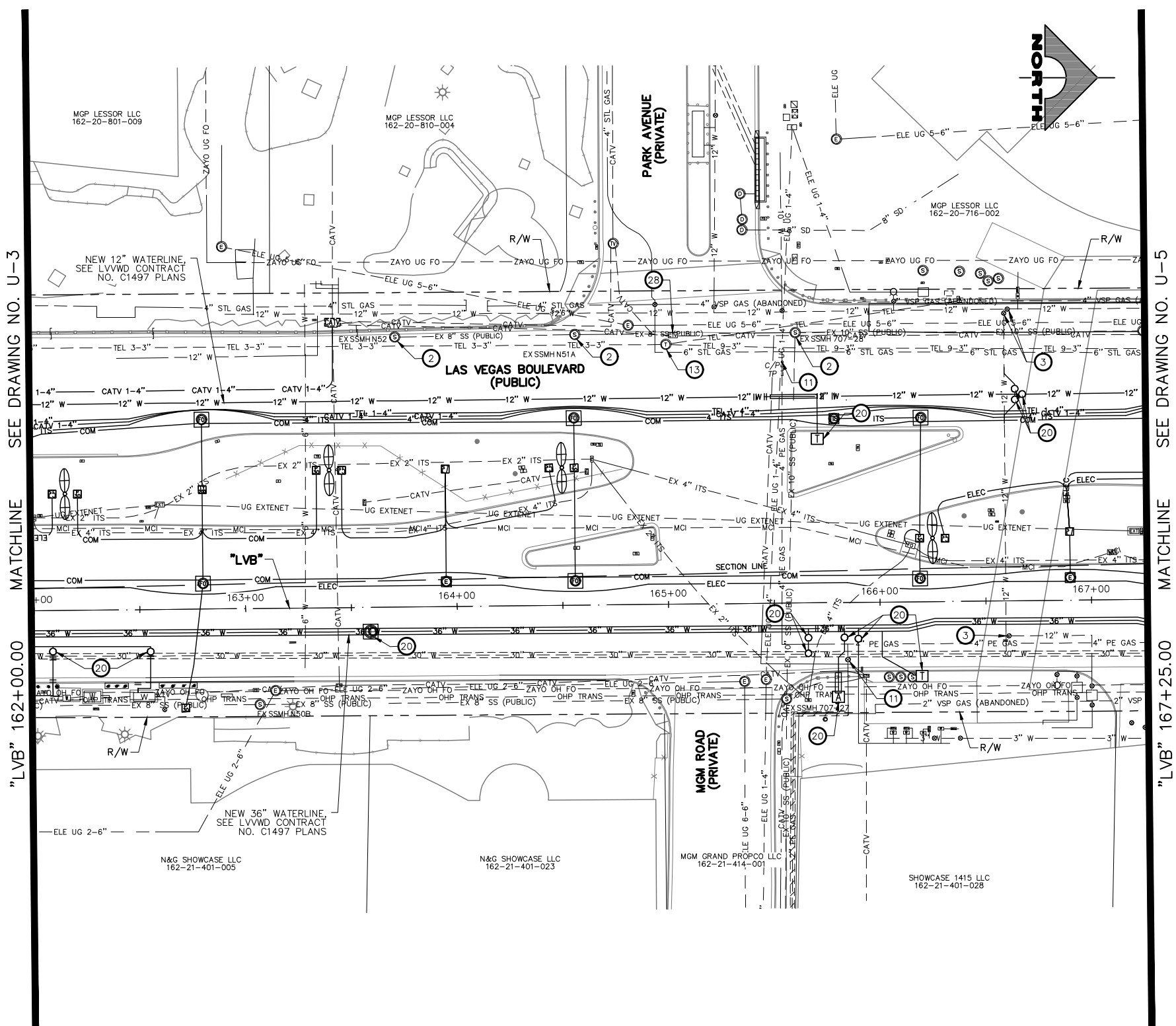
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

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	U-3
VERT: NONE	SHT. 92 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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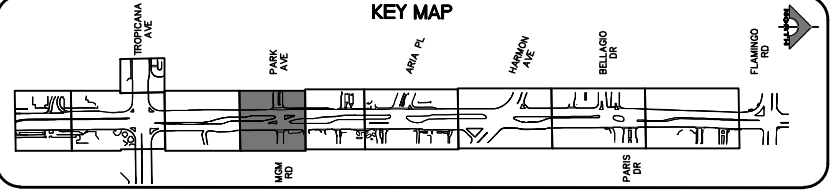
- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
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- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881
14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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 - TROPICANA AVE TO FLAMINGO RD
UTILITY PLAN
"LVB" 162+00.00 TO "LVB" 167+25.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-4
VERT: NONE	SHT. 93 OF 169
FIELD BOOK	L-2304

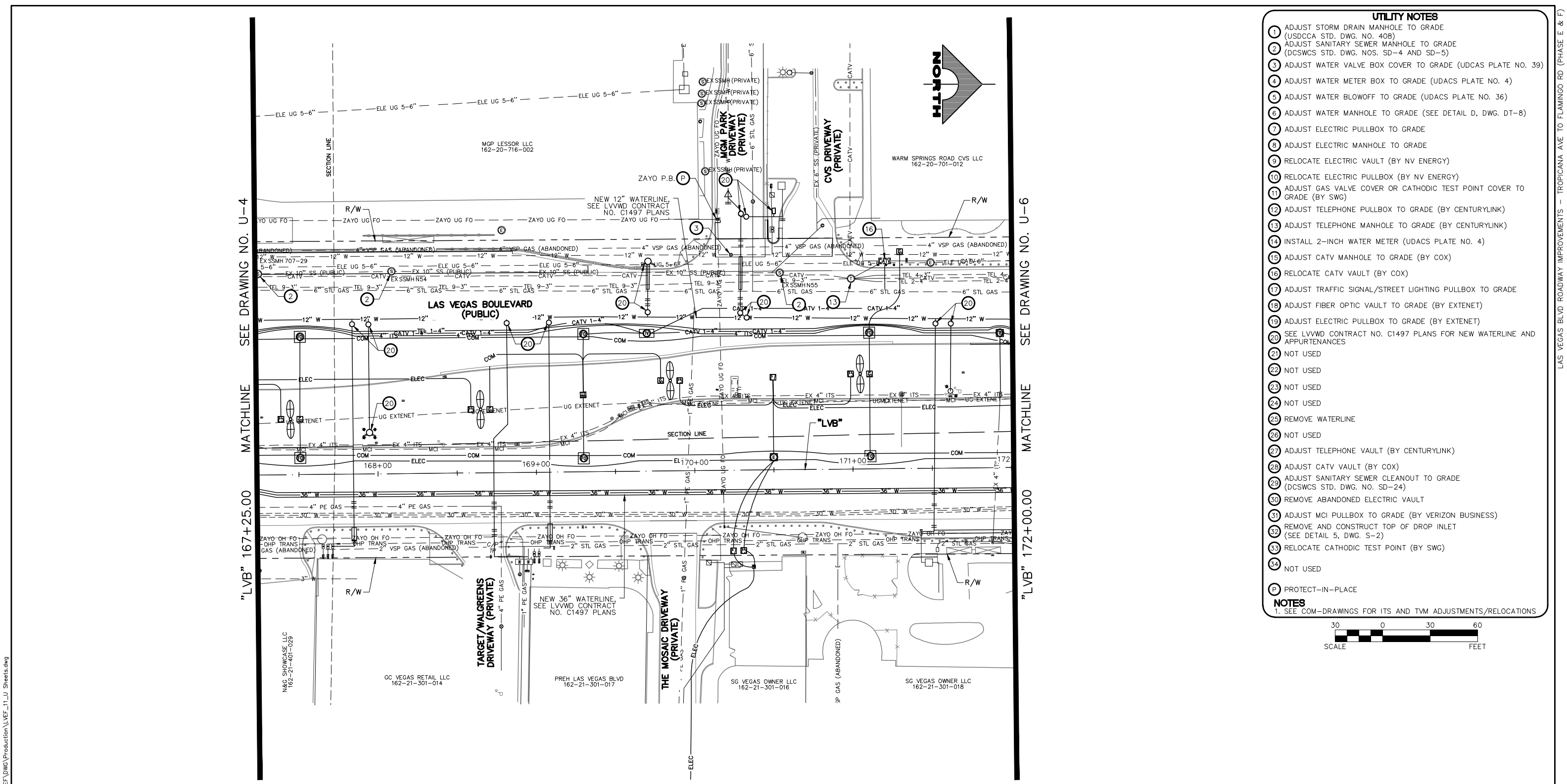
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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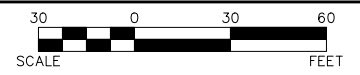
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REV. NO.	DATE	DESCRIPTION	APPROVED



- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
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 - 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
 - 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
 - 21 NOT USED
 - 22 NOT USED
 - 23 NOT USED
 - 24 NOT USED
 - 25 REMOVE WATERLINE
 - 26 NOT USED
 - 27 ADJUST TELEPHONE VAULT (BY CENTURYLINK)
 - 28 ADJUST CATV VAULT (BY COX)
 - 29 ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
 - 30 REMOVE ABANDONED ELECTRIC VAULT
 - 31 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
 - 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
 - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
 - 34 NOT USED
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS

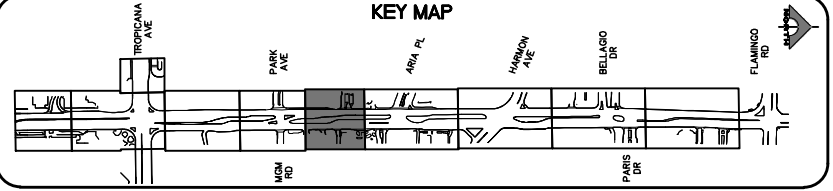


SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881
14 DAYS PRIOR TO CONSTRUCTION.

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
DIGITALLY SIGNED BY SRI KAMUJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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 - TROPICANA AVE TO FLAMINGO RD
UTILITY PLAN
"LVB" 167+25.00 TO "LVB" 172+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
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	U-5
VERT: NONE	SHT. 94 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

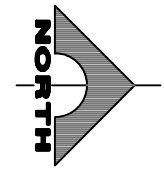
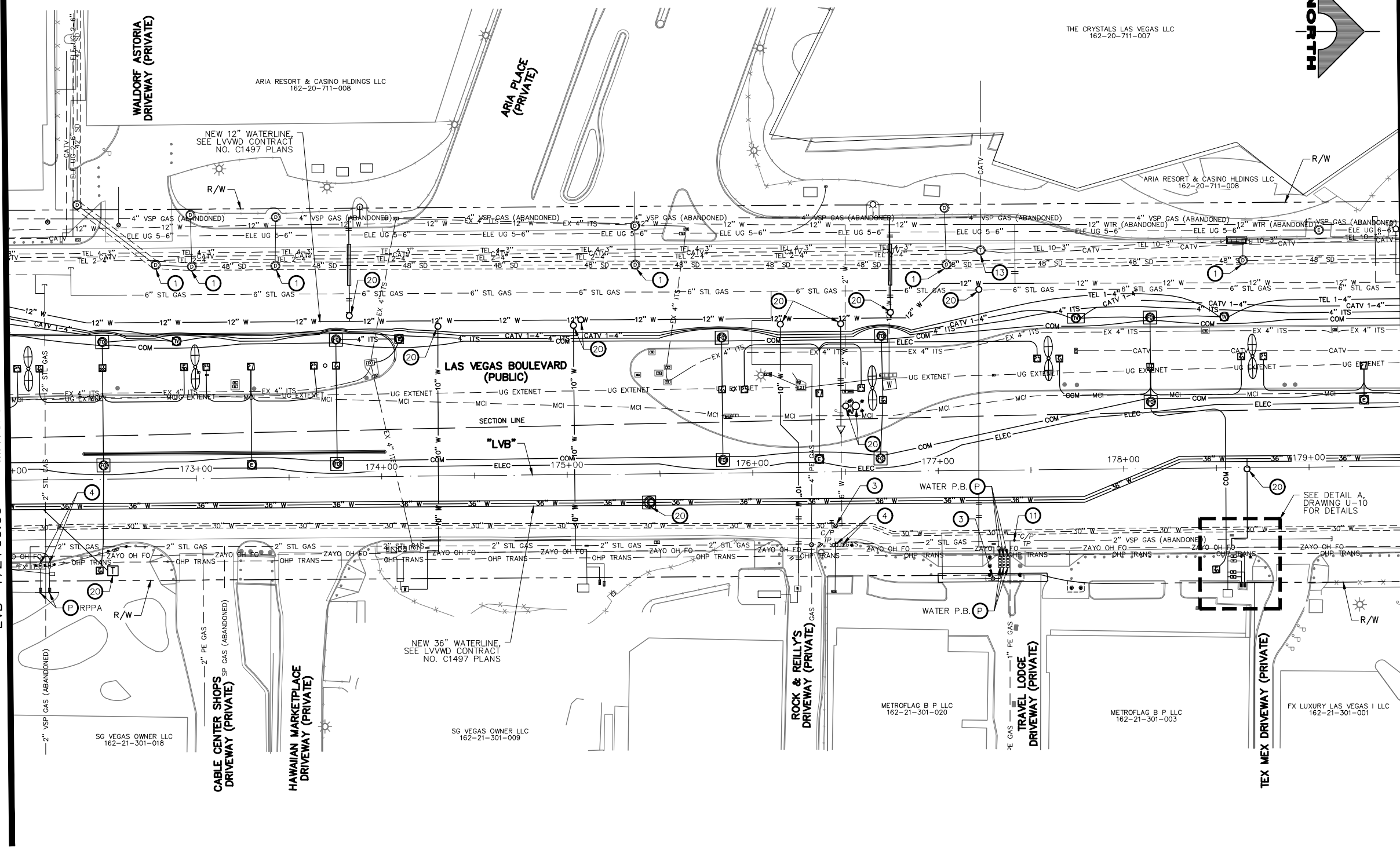
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SEE DRAWING NO. U-5 MATCHLINE

SEE DRAWING NO. U-7 MATCHLINE

"LVB" 172+00.00

"LVB" 179+50.00



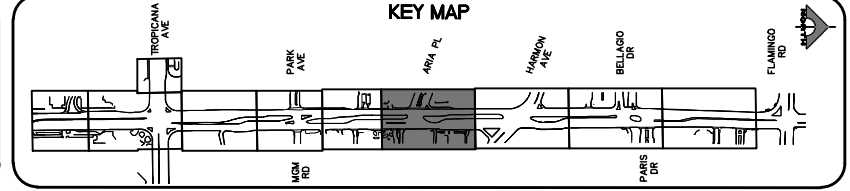
- UTILITY NOTES**
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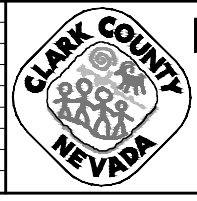
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 FOR VALVE ADJUSTMENT CONTACT 702-528-7881
 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

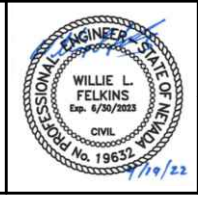
CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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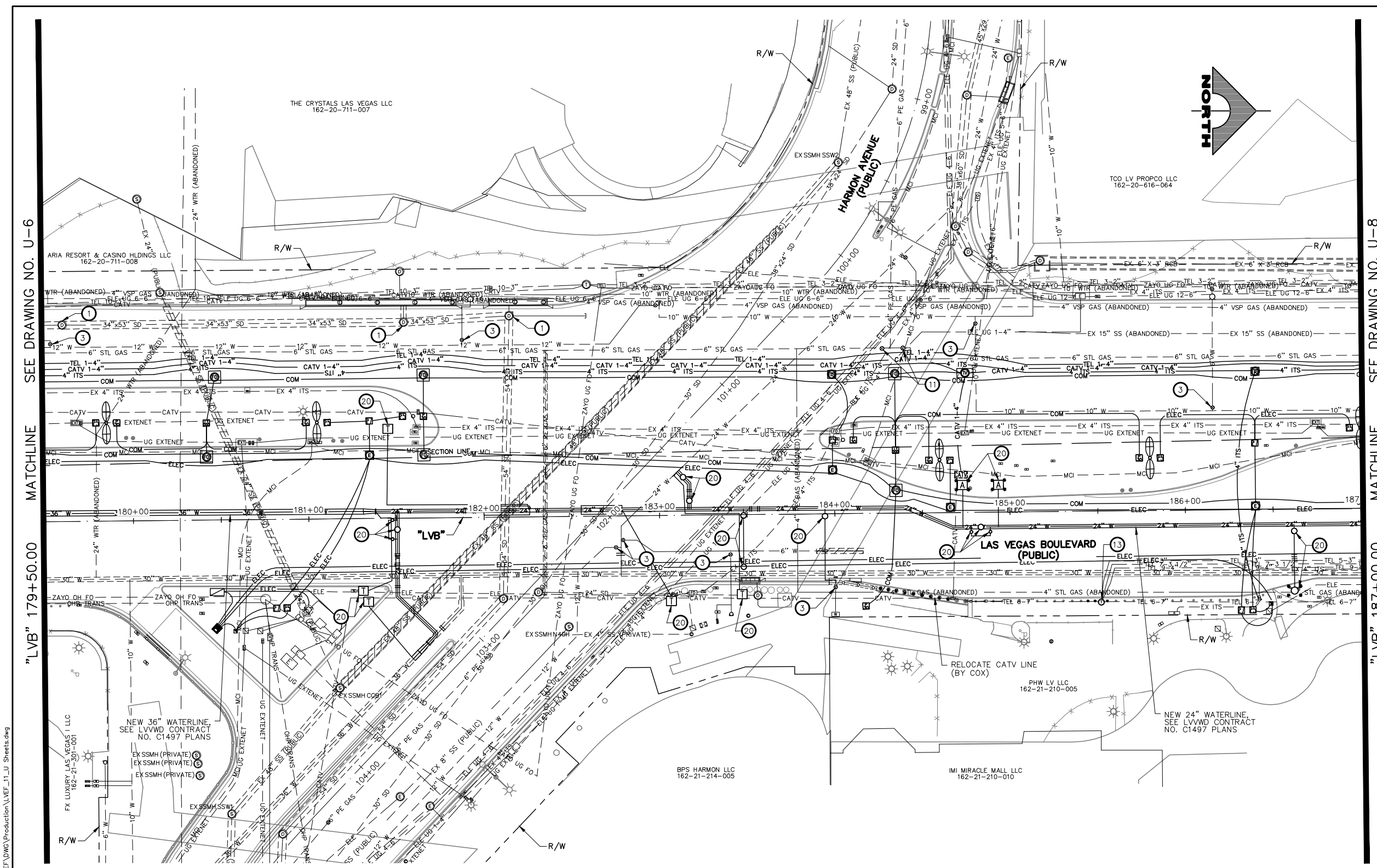
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
UTILITY PLAN
 "LVB" 172+00.00 TO "LVB" 179+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 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	U-6
VERT: NONE	SHT. 95 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- UTILITY NOTES**
- ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
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- NOTES**
- SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



SEE DRAWING NO. U-6

SEE DRAWING NO. U-8

MATCHLINE

MATCHLINE

"LVB" 179+50.00

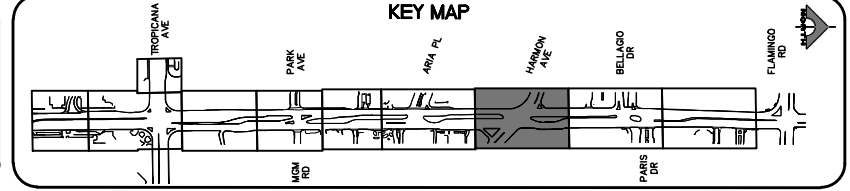
"LVB" 187+00.00

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SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881
 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMUJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.983
 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

CLARK COUNTY NEVADA
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
UTILITY PLAN
"LVB" 179+50.00 TO "LVB" 187+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

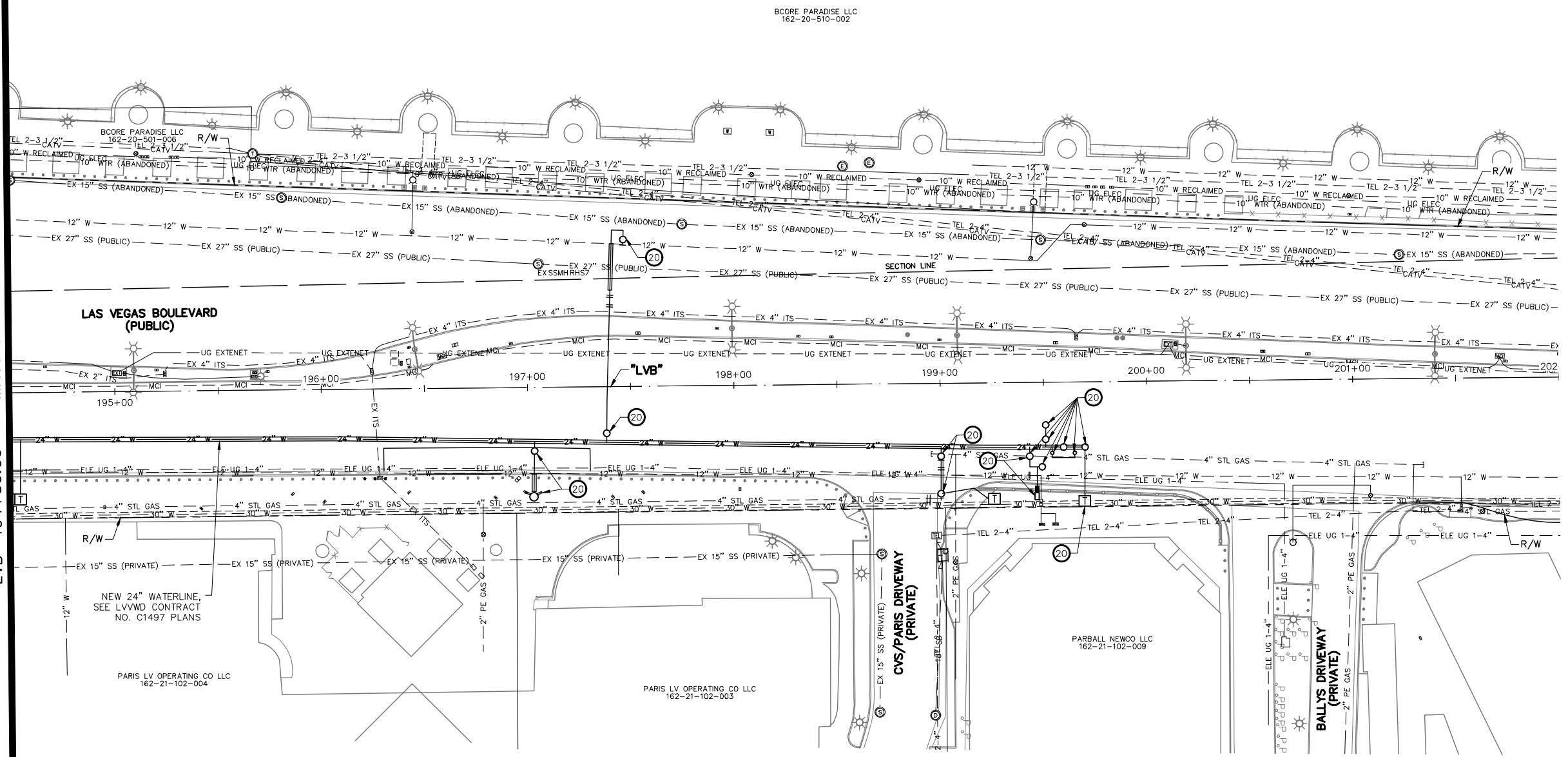
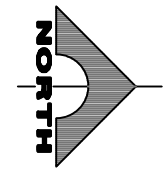


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-7
VERT: NONE	SHT. 96 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

SEE DRAWING NO. U-8 MATCHLINE "LVB" 194+50.00



UTILITY NOTES

- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
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 - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
 - 34 NOT USED
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



BOLLARD NOTE

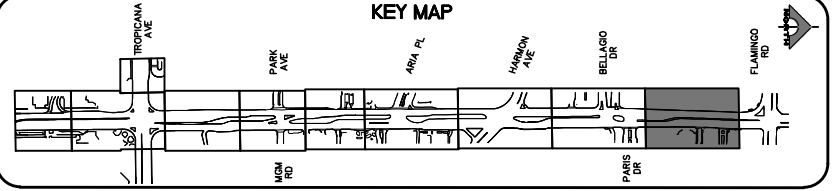
NO BOLLARD SHALL BE CUT INTO WHERE WATER LATERALS ARE INSTALLED UNLESS IT IS A TEMPORARY BOLLARD.

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.

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
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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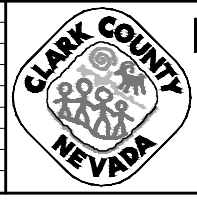


SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881
 14 DAYS PRIOR TO CONSTRUCTION.

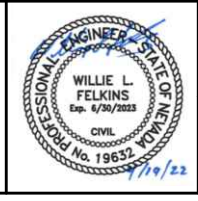
APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
UTILITY PLAN
 "LVB" 194+50.00 TO "LVB" 202+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

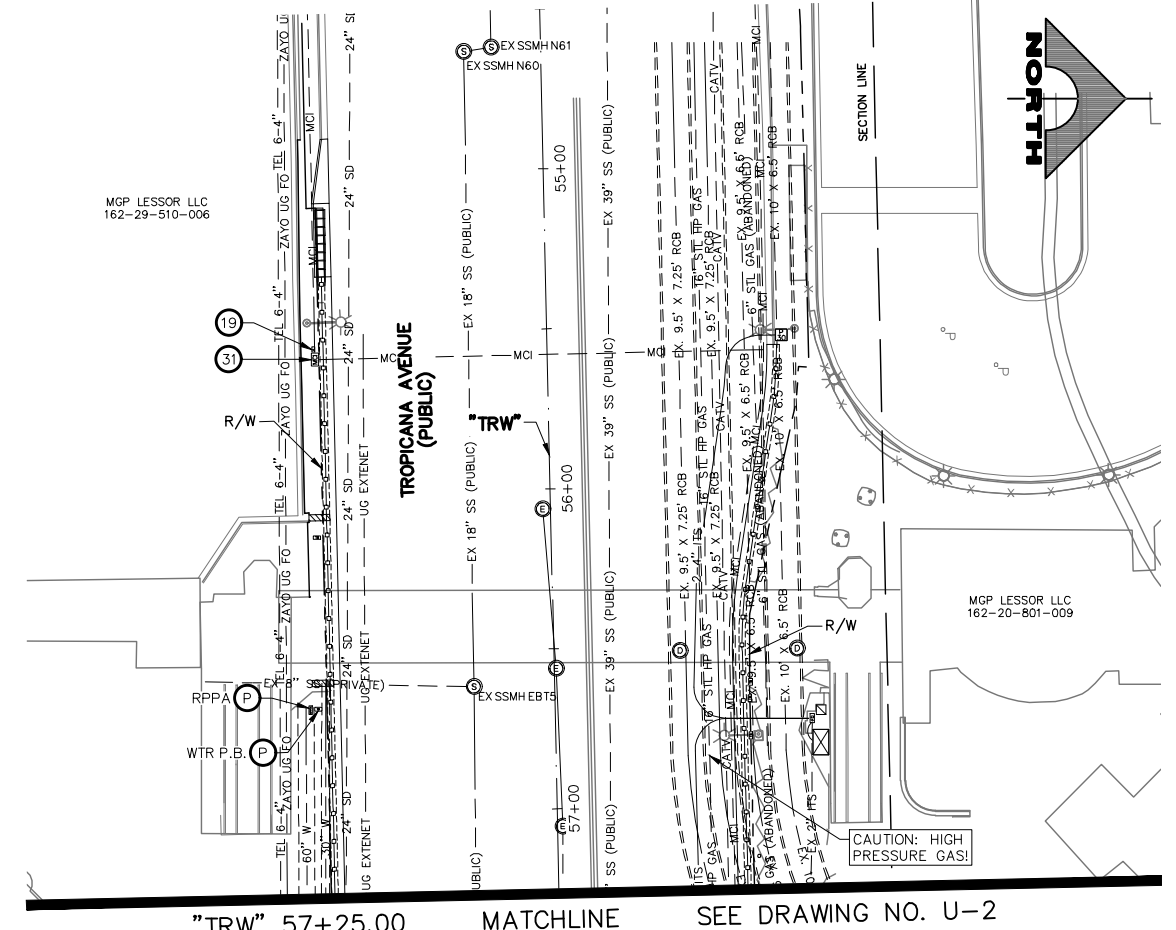
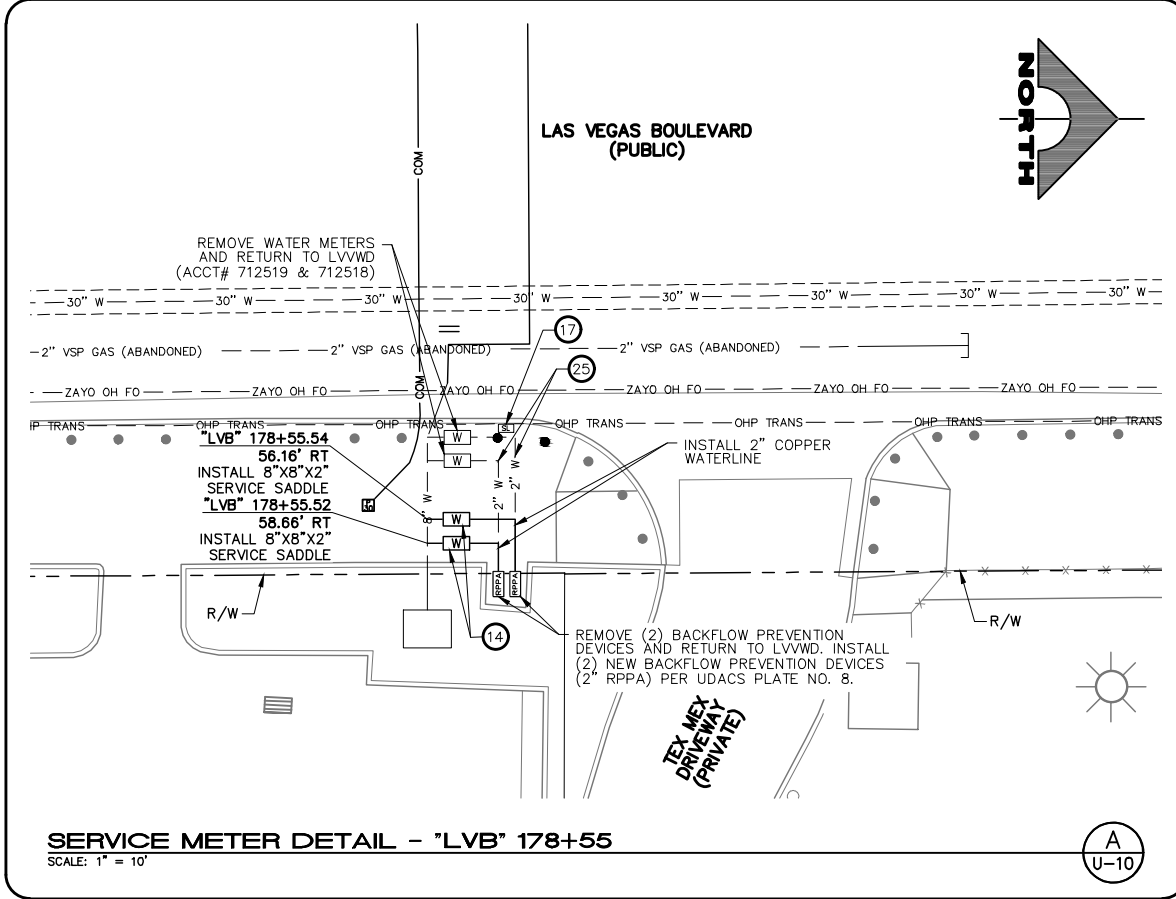


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-9
VERT: NONE	SHT. 98 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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- NOTES**
- SEE COM-DRAWINGS FOR ITS AND TWM ADJUSTMENTS/RELOCATIONS
- SCALE: 30 0 30 60 FEET

ABANDONMENT OF EXISTING SERVICE LATERALS (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 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.

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 14 DAYS 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

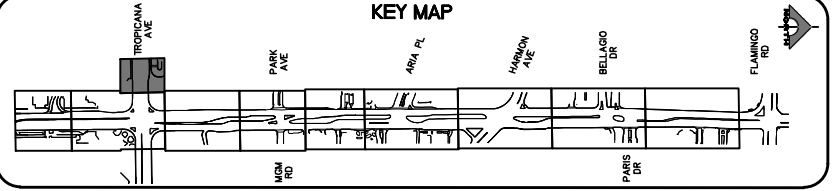
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

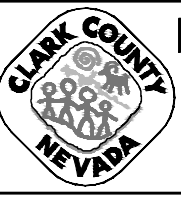
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21

CCWRD PIPES NUMBER: 21.983

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

UTILITY PLAN

"TRW" 54+50.00 TO "TRE" 57+25.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

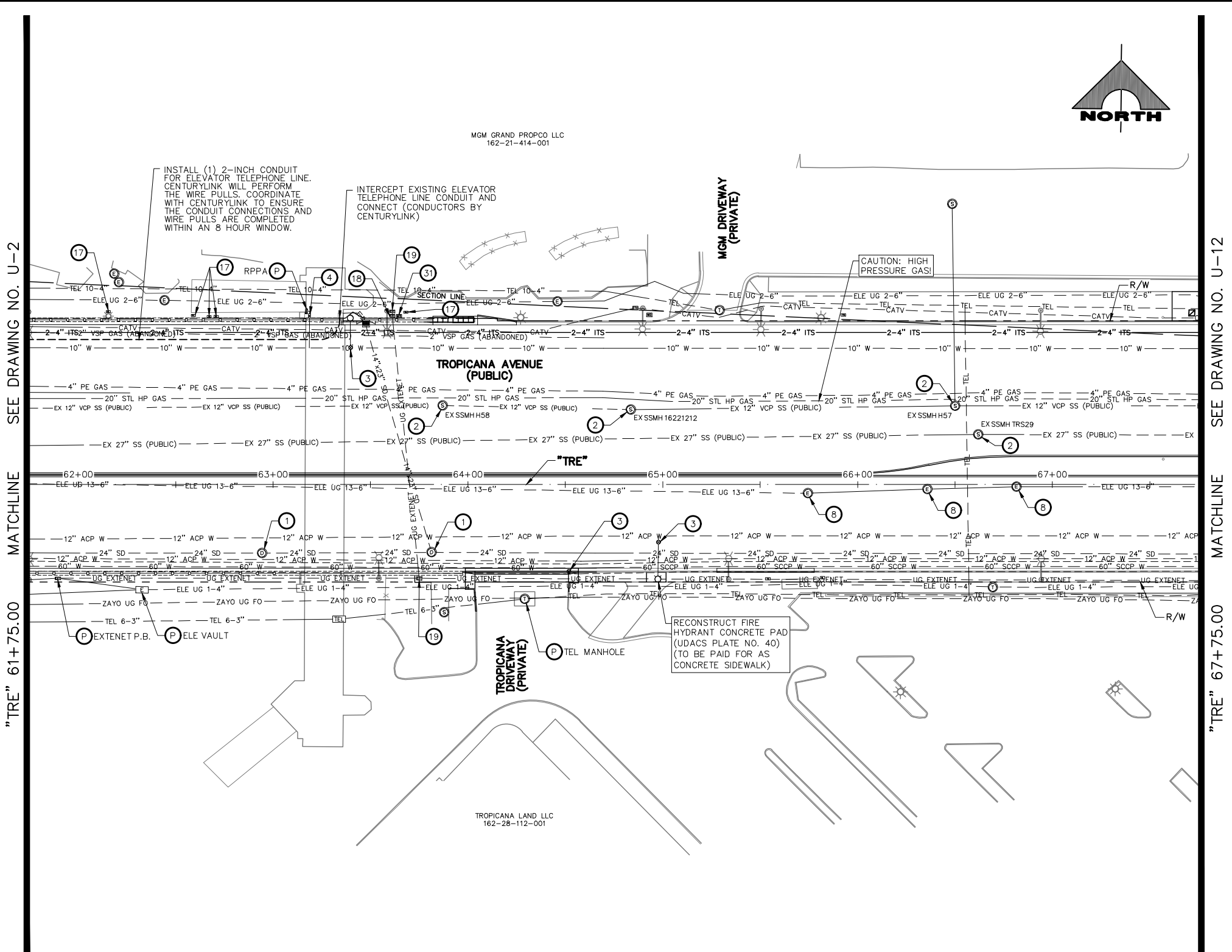


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: [Signature]

1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
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F: 702.804.2299
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-10
VERT: NONE	SHT. 99 OF 169
FIELD BOOK	L-2304

04-19-22 10:57:44 F:\Projects\500-897-LV-EF\DWG\Production\VEF_11A_U_Sheets.dwg



UTILITY NOTES

- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 40B)
- 2 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
- 3 ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
- 4 ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
- 5 ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
- 6 ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
- 7 ADJUST ELECTRIC PULLBOX TO GRADE
- 8 ADJUST ELECTRIC MANHOLE TO GRADE
- 9 RELOCATE ELECTRIC VAULT (BY NV ENERGY)
- 10 RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
- 11 ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
- 12 ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
- 13 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
- 14 INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
- 15 ADJUST CATV MANHOLE TO GRADE (BY COX)
- 16 RELOCATE CATV VAULT (BY COX)
- 17 ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
- 18 ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
- 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
- 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
- 21 NOT USED
- 22 NOT USED
- 23 NOT USED
- 24 NOT USED
- 25 REMOVE WATERLINE
- 26 NOT USED
- 27 ADJUST TELEPHONE VAULT (BY CENTURYLINK)
- 28 ADJUST CATV VAULT (BY COX)
- 29 ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
- 30 REMOVE ABANDONED ELECTRIC VAULT
- 31 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
- 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
- 33 RELOCATE CATHODIC TEST POINT (BY SWG)
- 34 NOT USED

NOTES

1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



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.

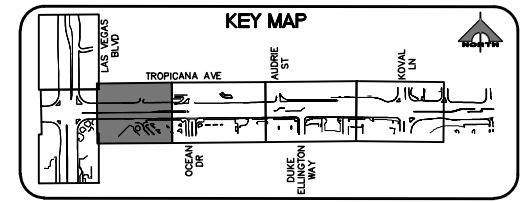
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOUJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

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

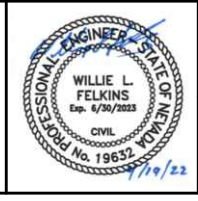
CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

UTILITY PLAN

"TRE" 61+75.00 TO "TRE" 67+75.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
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	U-11
VERT: NONE	SHT. 100 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

F:\Projects\500\500-897-LV-EF-DWG\Production\VEF_11A_U_Sheets.dwg

SEE DRAWING NO. U-12

MATCHLINE

"TRE" 75+25.00

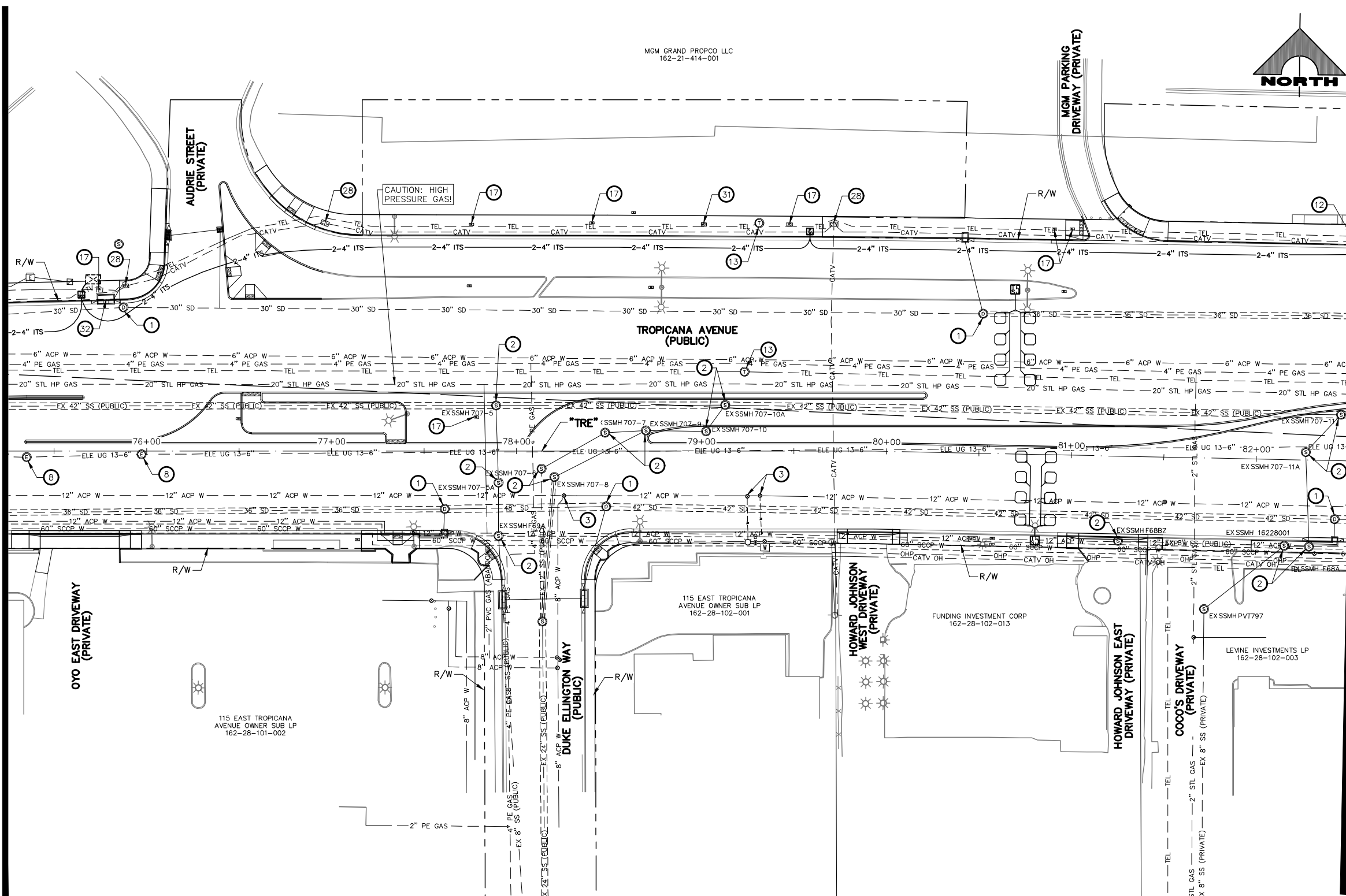
SEE DRAWING NO. U-14

MATCHLINE

"TRE" 82+50.00

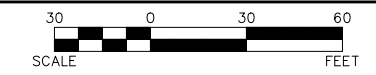
MGM GRAND PROPCO LLC
162-21-414-001

NORTH



UTILITY NOTES

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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.

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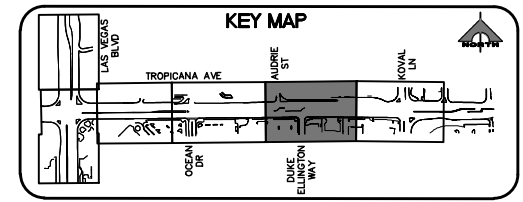
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

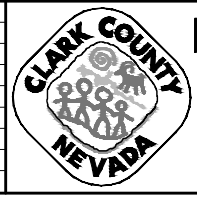
CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

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REV. NO.	DATE	DESCRIPTION	APPROVED

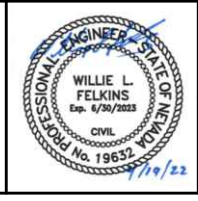


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

UTILITY PLAN

"TRE" 75+25.00 TO "TRE" 82+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

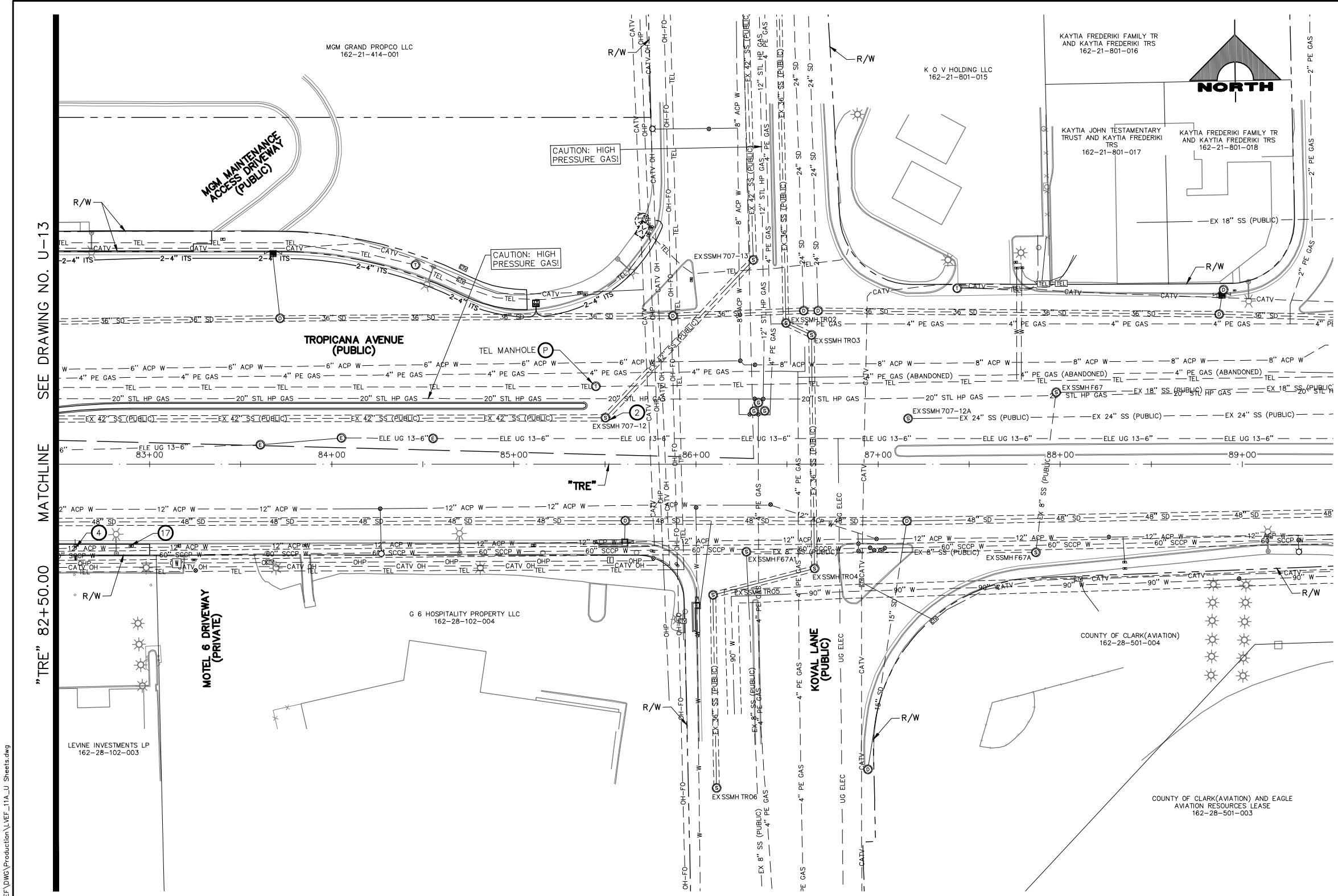
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **U-13** SHT. 102 OF 169

L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- UTILITY NOTES**
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SEE DRAWING NO. U-13
MATCHLINE
"TRE" 82+50.00

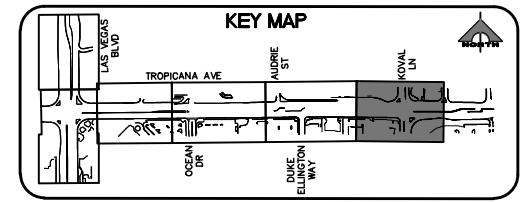
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APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

UTILITY PLAN

"TRE" 82+50.00 TO "TRE" 89+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: _____

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

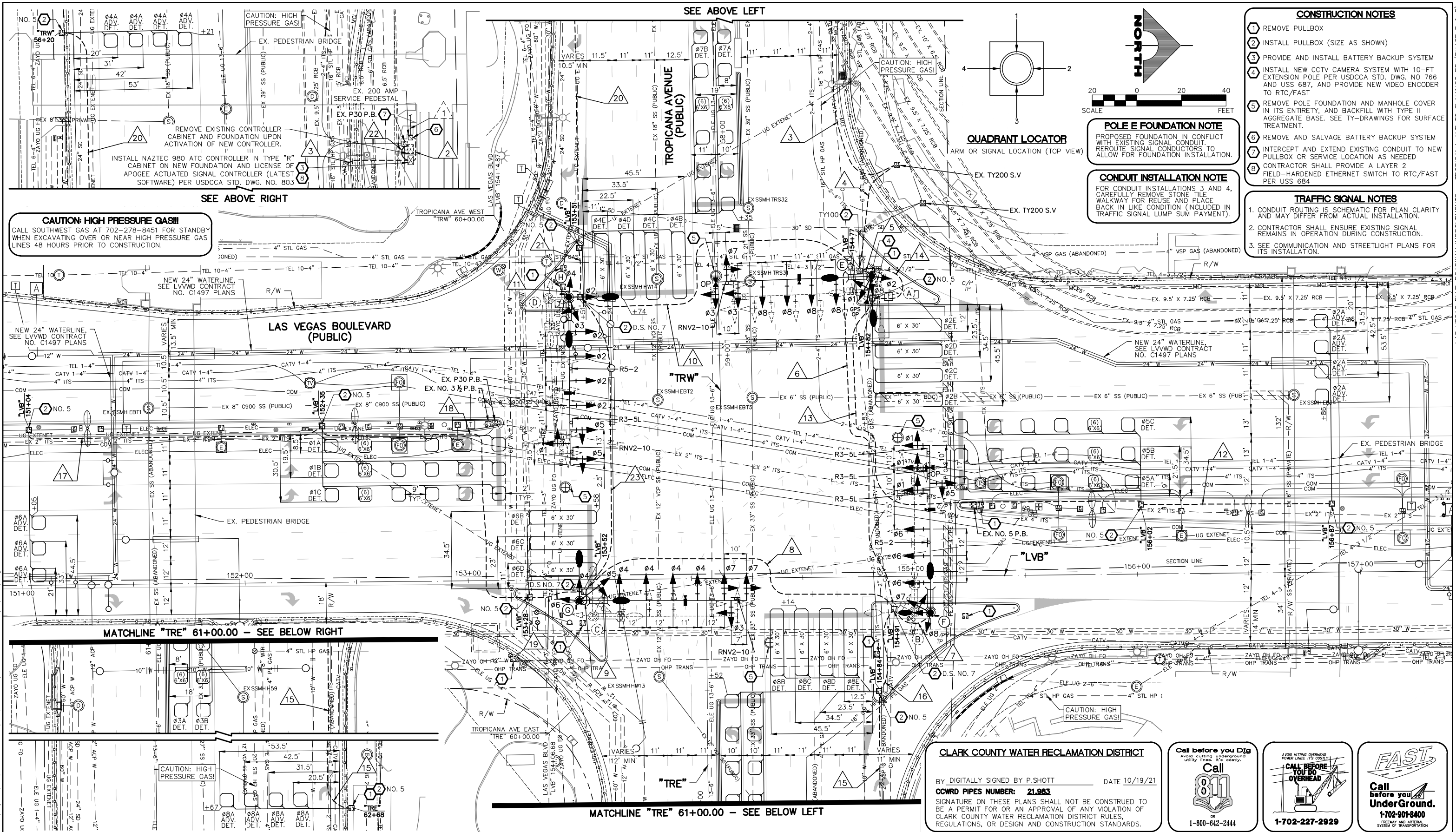
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DRAWING NO. **U-14** SHT. 103 OF 169

L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



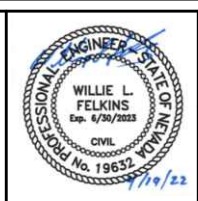
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

TRAFFIC SIGNAL MODIFICATION PLAN

LAS VEGAS BOULEVARD/TROPICANA AVENUE

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF 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
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	TS-1
VERT: NONE	SHT. 104 OF 169
FIELD BOOK	L-2304

CLARK COUNTY WATER RECLAMATION DISTRICT

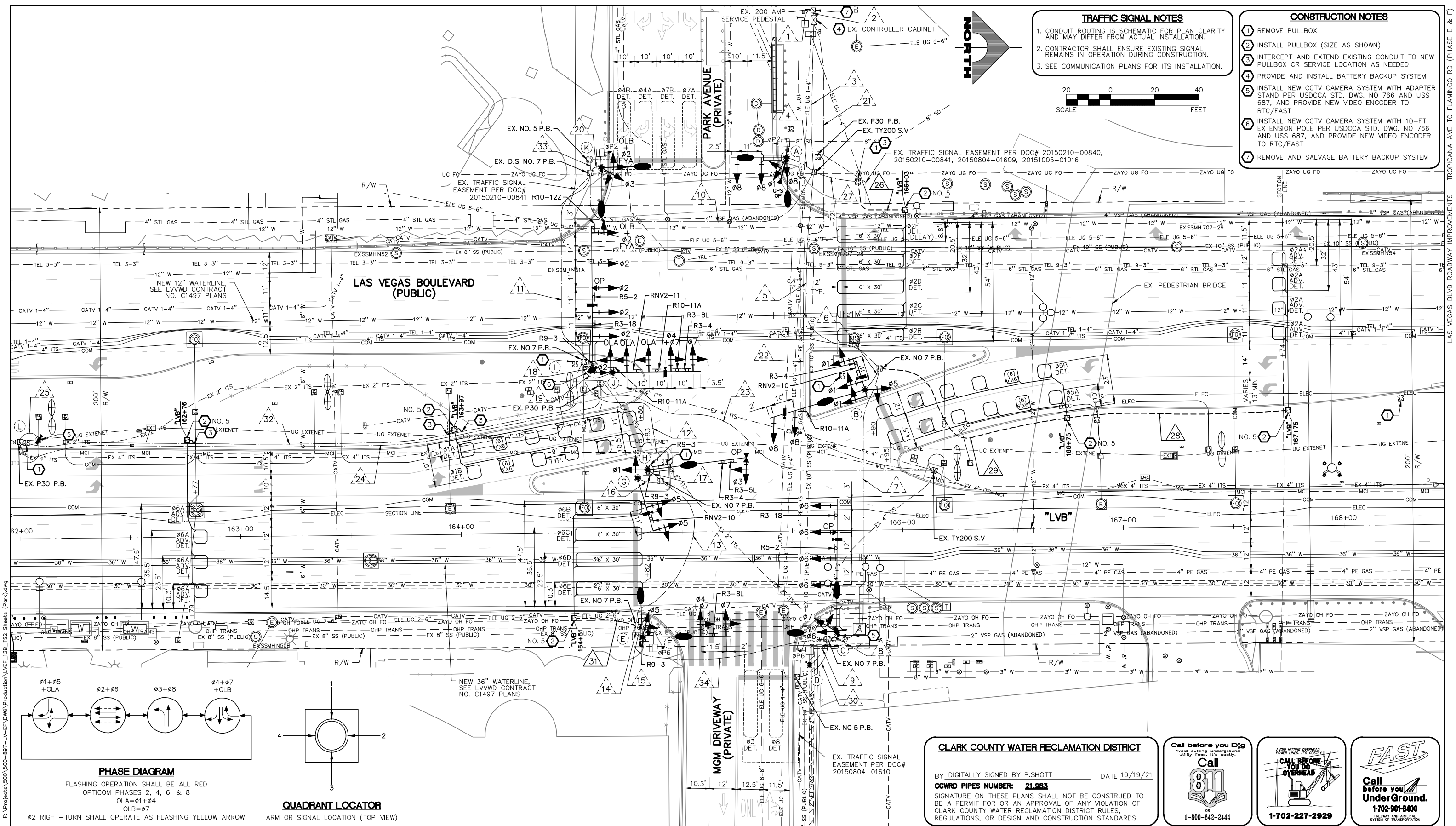
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCRWD PIPES NUMBER: 21983

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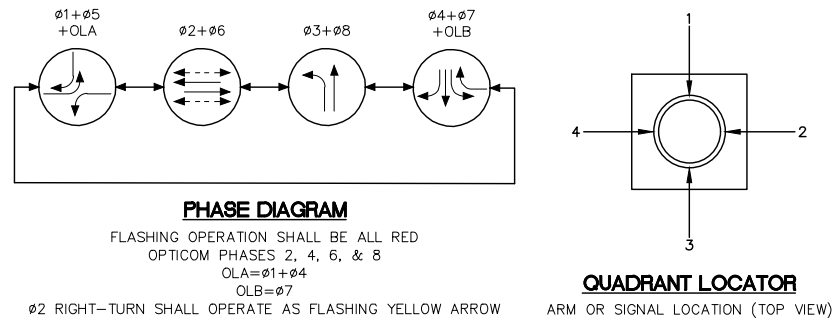
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



- 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.

- 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 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
 - 5 INSTALL NEW CCTV CAMERA SYSTEM WITH ADAPTER STAND PER USDOCA STD. DWG. NO 766 AND USS 687, AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST
 - 6 INSTALL NEW CCTV CAMERA SYSTEM WITH 10-FT EXTENSION POLE PER USDOCA STD. DWG. NO 766 AND USS 687, AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST
 - 7 REMOVE AND SALVAGE BATTERY BACKUP SYSTEM



CLARK COUNTY WATER RECLAMATION DISTRICT

BY: DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983

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Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call 811

1-800-642-2444

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

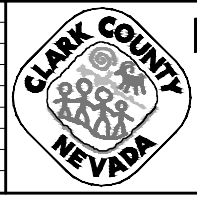
FAST

Call before you Underground.

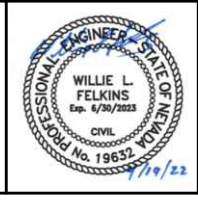
1-702-901-8400

FREQUENCY AND METEOROLOGICAL SYSTEM OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL MODIFICATION PLAN
LAS VEGAS BOULEVARD/PARK AVENUE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

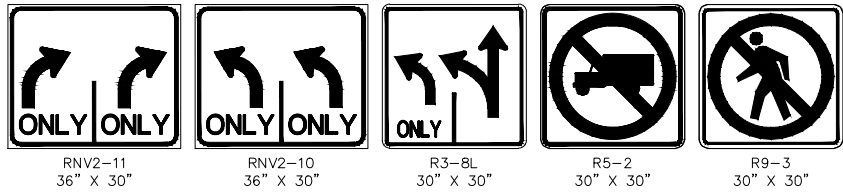
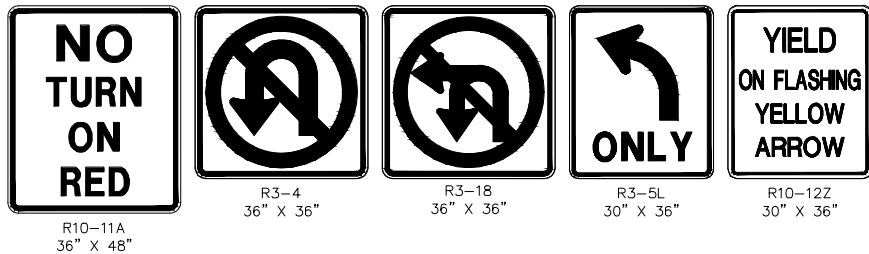
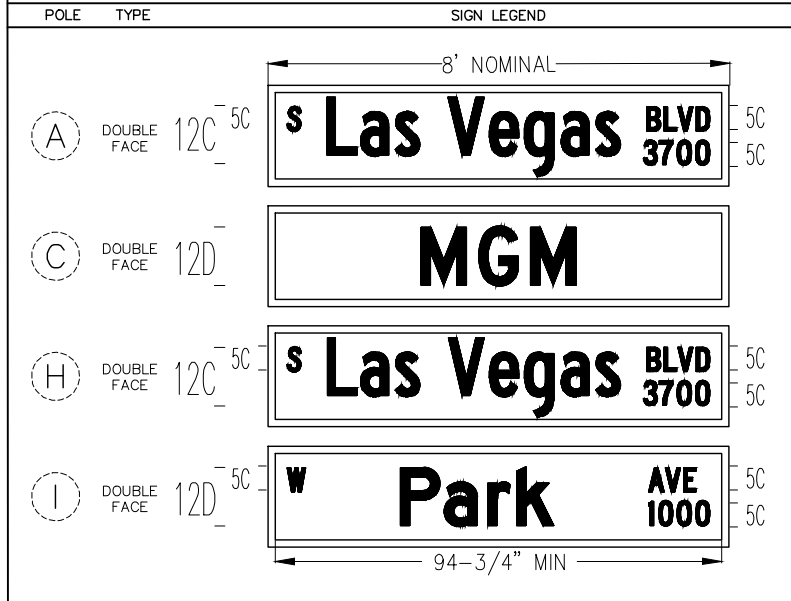


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DESIGNED BY: DSH CHECKED BY: JRT
APPROVED BY: _____

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	TS-3
VERT: NONE	SHT. 106 OF 169
FIELD BOOK	L-2304

STREET NAME SIGN SCHEDULE



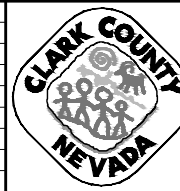
POLE SCHEDULE

POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS
		TYPE	SIGNAL ARM QUAD. LENGTH	LUM. ARM QUAD. LENGTH	TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.	TYPE (PHASE)		
(A)	EXISTING	XX-A	4 25'	3 4 15'	M-2(2) B-2T	MAST ARM 2	W-OT	2	3(#2)	LT	1	R(#8) B(#1)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, DSRC UNIT, RED LIGHT INDICATORS, AND GPS PREEMPTION SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW GPS PREEMPTION SYSTEM. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT.	
(B)	EXISTING	XX-A	3.5 4.5 15'	3.5 15'	M-2(4) B-2T	MAST ARM 1.5	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE VIDEO DETECTION CAMERAS AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 AND #5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1, #3, AND #8 PER MANUFACTURER'S RECOMMENDATIONS. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE B. MOUNT RNV2-10, R3-4, AND R10-11A ON MAST ARM.	
(C)	EXISTING	XX-A	1 60'	1 4 15'	M-2(4) B-2T	MAST ARM 3	-	-	-	-	2	R(#6) B(#7)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, OPTICOM, CCTV CAMERA SYSTEM, AND VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #7 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDOCA STD. DWG. 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685. MOUNT R3-18 AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.	
(D)	EXISTING	1-A	-	-	-	-	W-OT	3	1(#6)	RT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION.	
(E)	EXISTING	XX	2 40'	1 2 15'	M-2A M-2(3) B-5T	MAST ARM MAST ARM 4	-	-	-	-	3	R(#4) B(#5)	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. MOUNT R3-8L ON MAST ARM. MOUNT R9-3 ON POLE SHAFT.	
(F)	EXISTING	1-A	-	-	-	-	W-OT	4	3(#6)	RT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION.	
(G)	EXISTING	XX-20'	3 25'	-	-	M-2(2)	MAST ARM	-	-	-	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #5 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT RNV2-10 ON MAST ARM.	
(H)	EXISTING	XX-A	2 45'	2 15'	M-2 B-5T	MAST ARM 4	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN AND VIDEO DETECTION CAMERAS AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 AND #3 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE H. MOUNT R3-5L AND R3-4 ON MAST ARM. MOUNT R9-3(2) ON POLE SHAFT.	
(I)	EXISTING	XX-B	1 65'	-	-	M-4 M-2(4) B-1T	MAST ARM MAST ARM 3	-	-	-	4	R(#2) B(#3)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, CCTV CAMERA SYSTEM, OPTICOM, RED LIGHT INDICATORS, AND VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #2 DISPLAY FOR RIGHT-TURN ONLY SHALL BE 4-SECTION FLASHING YELLOW ARROW. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #2 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FT EXTENSION POLE WITH MATCHING FINISH PER USDOCA STD. DWG. 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685. MOUNT R3-18 AND R5-2 ON MAST ARM. MOUNT R9-3 ON POLE SHAFT. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.	
(J)	EXISTING	XX-A-20'	2 40'	-	-	M-2A M-2(3) B-5T	MAST ARM MAST ARM 4	-	-	-	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #0LA AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #4 AND #7 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT R10-11A, R3-8L, R3-4, AND RNV2-11 ON MAST ARM. MOUNT R10-11A ON POLE SHAFT.	
(K)	EXISTING	XX-A	3 - 2 3 15'	15'	B2-43	1	W-OT	1	3(#2)	RT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #3 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. #2 DISPLAY FOR RIGHT-TURN ONLY SHALL BE 4-SECTION FLASHING YELLOW ARROW. RELOCATE "PRIVATE DRIVE" SIGN FROM EXISTING POLE TO NEW POLE K.	
(L)	EXISTING	STLT(E)	-	-	-	-	-	-	-	-	-	-	EXISTING POLE TO REMAIN. INSTALL NEW CCTV CAMERA SYSTEM ON ADAPTER STAND PER USDOCA STD. DWG. 766 AND USS 687 AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST PER USS 685.	

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDOCA 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.
 ALL XX, XX-A, AND XX-B POLES SHALL INCLUDE TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA PER DETAIL A ON DRAWING NO. TS-19
 (E) = EXISTING
 B = BLUE
 R = RED

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_12B_TS2_Sheets (Park).dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



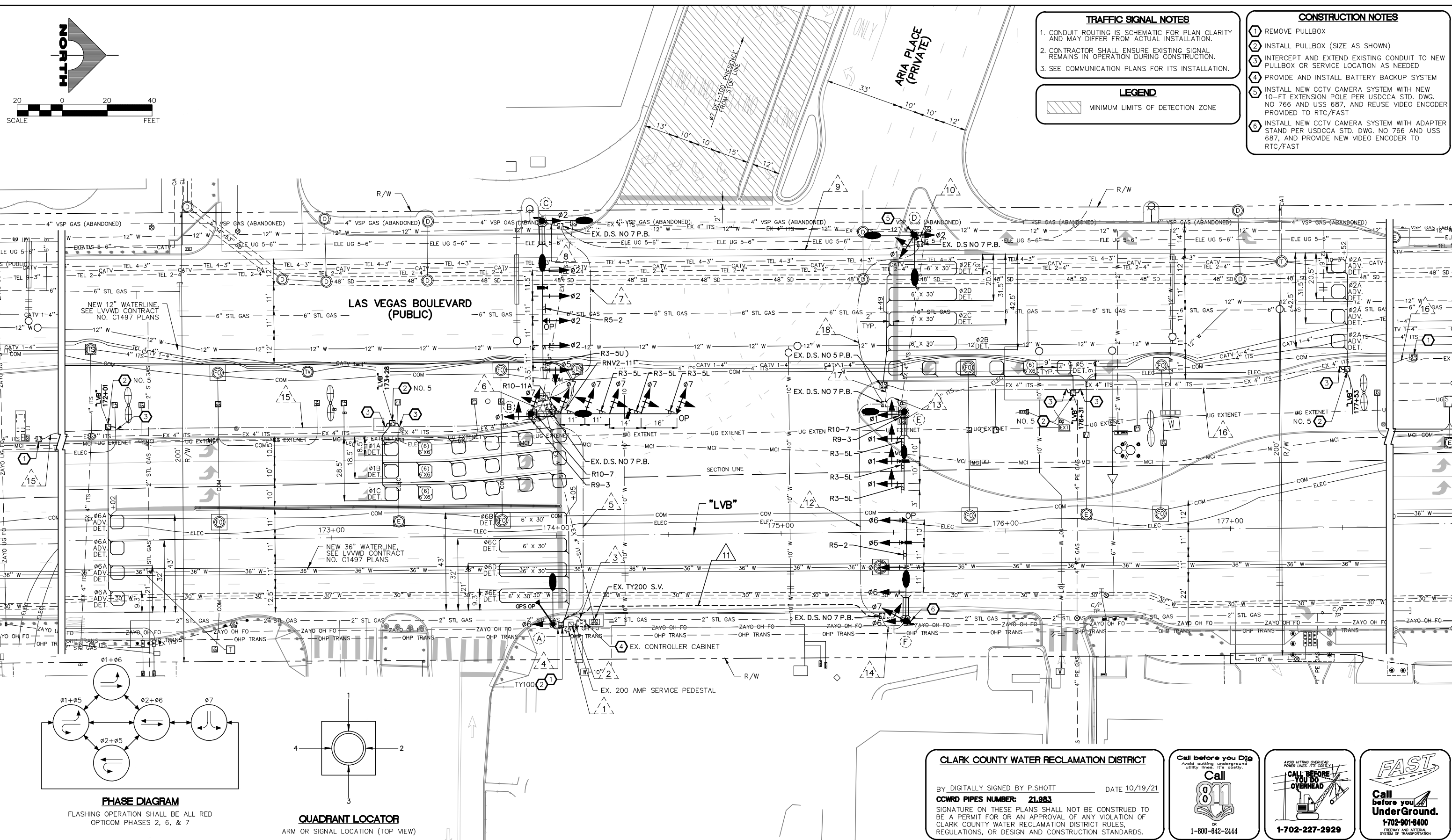
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
LAS VEGAS BOULEVARD/PARK AVENUE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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: NONE	TS-4
VERT: NONE	SHT. 107 OF 169
FIELD BOOK	L-2304

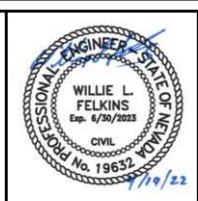
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



04-19-22 10:59:52 F:\Projects\500-897-LV-EF-DWG\Production\VEF_12C_TS3_Sheets (Aria) dwg

REV. NO.	DATE	DESCRIPTION	APPROVED

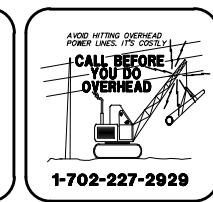
CLARK COUNTY NEVADA
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL MODIFICATION PLAN
LAS VEGAS BOULEVARD/ARIA PLACE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



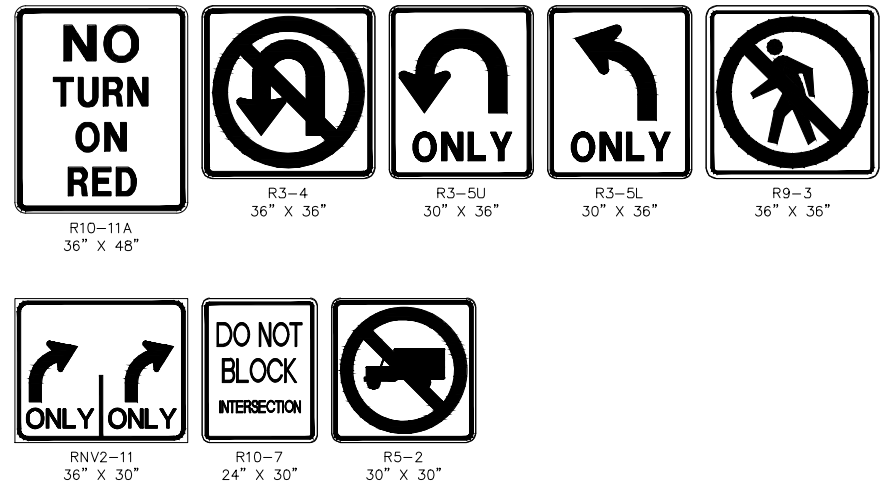
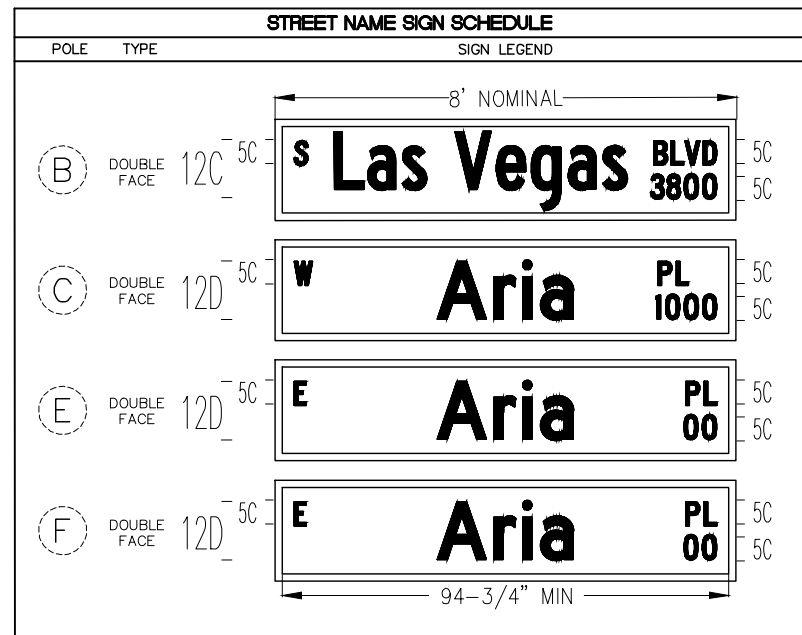
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____
 DRAWING NO. **TS-6**
 SHT. 109 OF 169
 L-2304

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY: DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
 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 - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



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.	
(A)	EXISTING	XX-A	2	-	1	15'	B-1T	4	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE GPS PREEMPTION SYSTEM AND DSRC UNIT. INSTALL NEW POLE ON EXISTING FOUNDATION. INSTALL NEW GPS PREEMPTION SYSTEM. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT.
(B)	EXISTING	XX-B	2	65'	2	15'	M-2(5) B-2T	MAST ARM 4	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, OPTICOM, AND VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW PRESENCE VIDEO DETECTION FOR #7 PER MANUFACTURER'S RECOMMENDATIONS. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE B. MOUNT R3-5L(3), RN2-11, AND R10-11A ON MAST ARM. MOUNT R10-7 AND R9-3 ON POLE SHAFT. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(C)	EXISTING	XX-B	3	70'	2	15'	M-2(5) B-1T	MAST ARM 1	-	-	-	4	R(#2)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN AND OPTICOM. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAY SHALL HAVE ALL U-TURN INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR #2 AND #5 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT R3-5U ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(D)	EXISTING	XX-B	4	-	3	15'	B-2T	2	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FOOT EXTENSION POLE WITH MATCHING FINISH PER USDOCA STD. DWG. 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685.
(E)	EXISTING	XX-B	3	35'	3	15'	M-2(3) B-5T	MAST ARM 1	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE E. MOUNT R3-5L(3) ON MAST ARM. MOUNT R10-7 AND R9-3 ON POLE SHAFT.
(F)	EXISTING	XX-B	1	45'	1	15'	M-2(4) B-2T	MAST ARM 3	-	-	-	2	R(#6) B(#7)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, OPTICOM, AND CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #7 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDOCA 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER PROVIDED TO RTC/FAST PER USS 685.

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDOCA 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.
 ALL XX, XX-A, AND XX-B POLES SHALL INCLUDE TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA PER DETAIL A ON DRAWING NO. TS-19
 * STRAIGHT ARM LUMINAIRE
 (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
EXISTING	NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)																		
EXISTING	SERVICE PEDESTAL(E)	CONTROLLER(E)																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE	CONTROLLER(E)	POLE A																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE B																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE C																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET)	CONTROLLER(E)	POLE D																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE E																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE F																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE A LUMINAIRE																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE B LUMINAIRE																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE C LUMINAIRES																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE D LUMINAIRES																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE E LUMINAIRES																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE F LUMINAIRE																		
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET. #6B, #6C, #6D, #6E																		
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET. #6A																		
3-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET. #1A, #1B, #1C																		
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET. #2A																		
1-#12 AWG. PRESENCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET. #5																		
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET. #2B, #2C, #2D, #2E																		
CONDUIT SIZE (E) EXISTING			1-3"	1-3"	3-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	

- A NO. 8 GROUNDING WIRE SHALL BE RAN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.
- VIDEO DETECTION CABLES FOR FUTURE USE SHALL RUN FROM THE CONTROLLER CABINET TO SIGNAL POLE BASES WITHOUT VIDEO DETECTION CAMERAS.
- PROVIDE TWELVE FOOT OF SLACK IN CABINET AND ADEQUATE SLACK IN POLE BASE TO EXTEND TWO FEET BEYOND RIM OF HAND HOLE.
- CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDOCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.
- CONTRACTOR SHALL REMOVE AND REPUSS EXISTING CONDUCTORS AS NEEDED.
- WITH THE EXCEPTION OF VIDEO DETECTION WIRE AND CABLE, CONDUCTORS AND CABLE NO LONGER IN USE SHALL BE REMOVED.
- NO. 10 WIRES FOR METRO DOME CAMERA DUPLEX OUTLETS SHALL BE RAN FROM SERVICE PEDESTAL TO SIGNAL POLE BASE (CONDUIT ROUTING FROM SERVICE PEDESTAL TO CONTROLLER NOT SHOWN FOR CLARITY).

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
 TRAFFIC SIGNAL SCHEDULES AND DETAILS
 LAS VEGAS BOULEVARD/ARIA PLACE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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: NONE	TS-7
VERT: NONE	SHT. 110 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

NO TURN ON RED
R10-11A
36" X 48"

ONLY
R3-5L
30" X 36"

ONLY
R3-5R
30" X 36"

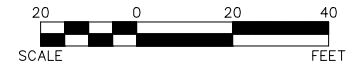
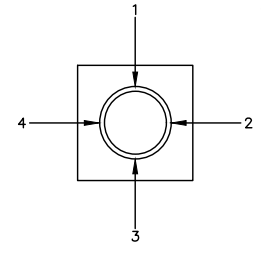
ONLY ONLY
RN2-10
36" X 30"

DO NOT BLOCK INTERSECTION
R10-7
24" X 30"

NO LEFT TURN
R5-2
30" X 30"

TRAFFIC SIGNAL NOTES

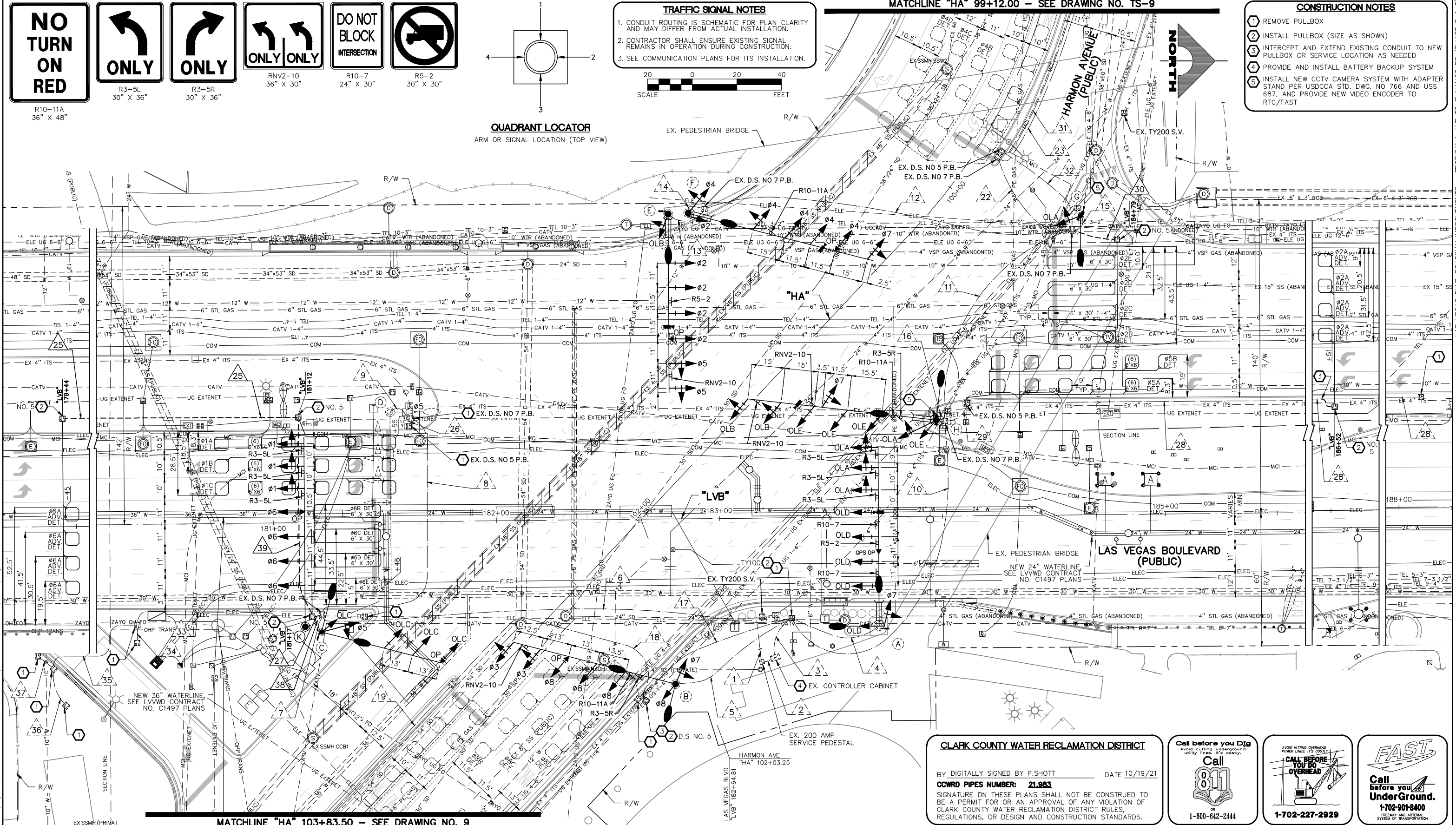
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
3. SEE COMMUNICATION PLANS FOR ITS INSTALLATION.



MATCHLINE "HA" 99+12.00 - SEE DRAWING NO. TS-9

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 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
- 5 INSTALL NEW CCTV CAMERA SYSTEM WITH ADAPTER STAND PER USDOCA STD. DWG. NO 766 AND USS 687, AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST



CLARK COUNTY WATER RECLAMATION DISTRICT

BY: DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21

CCWRD PIPES NUMBER: 21.983

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

1-800-642-2444

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FREQUENCY AND METEOROLOGICAL SYSTEM OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED

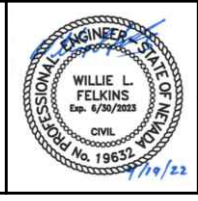
CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

TRAFFIC SIGNAL MODIFICATION PLAN

LAS VEGAS BOULEVARD/HARMON AVENUE

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: JRT
APPROVED BY: [Signature]

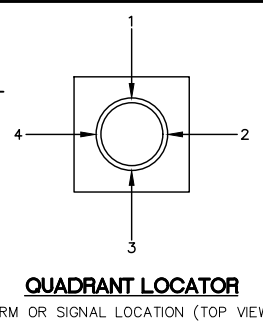
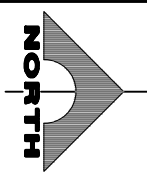
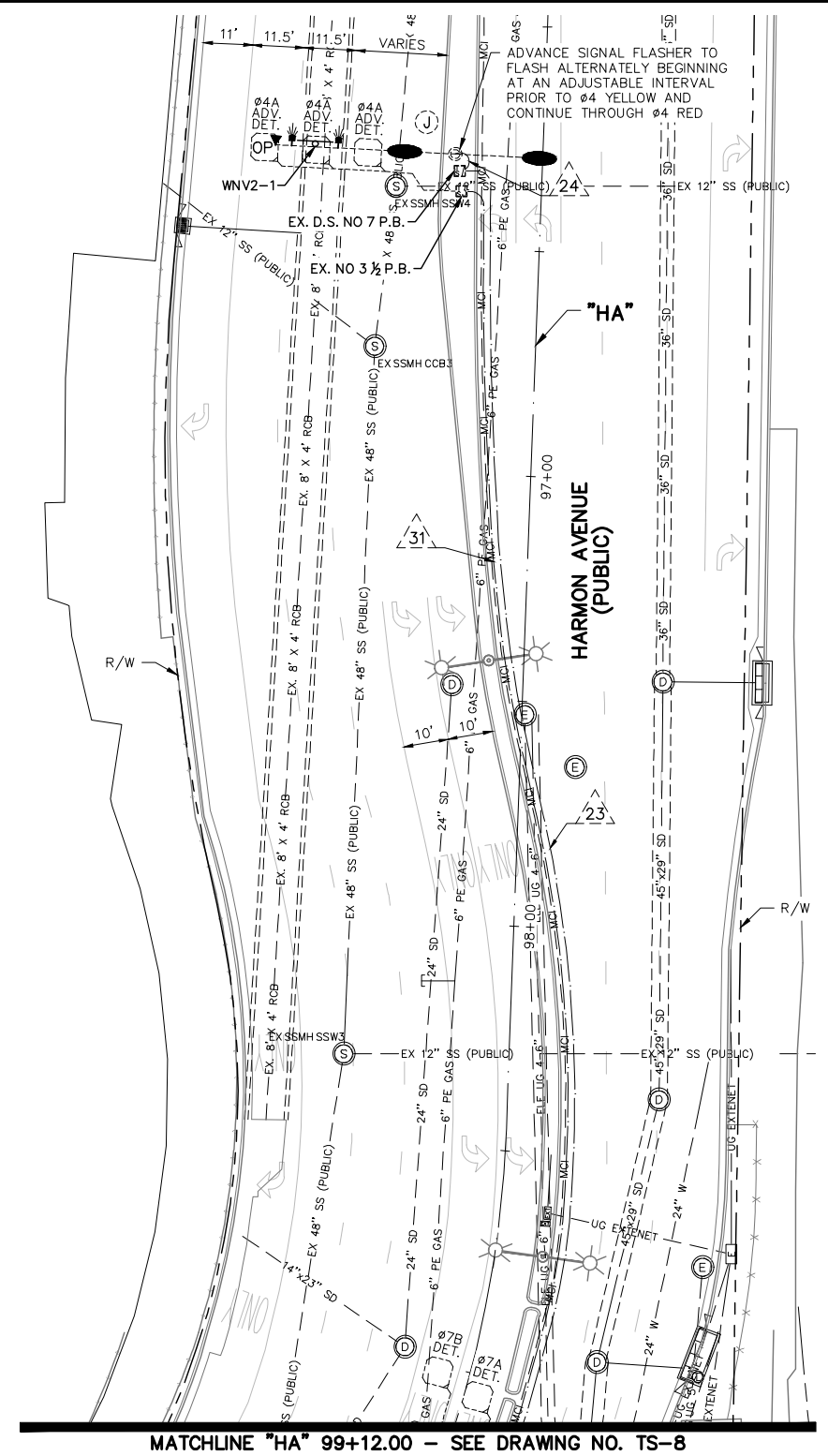
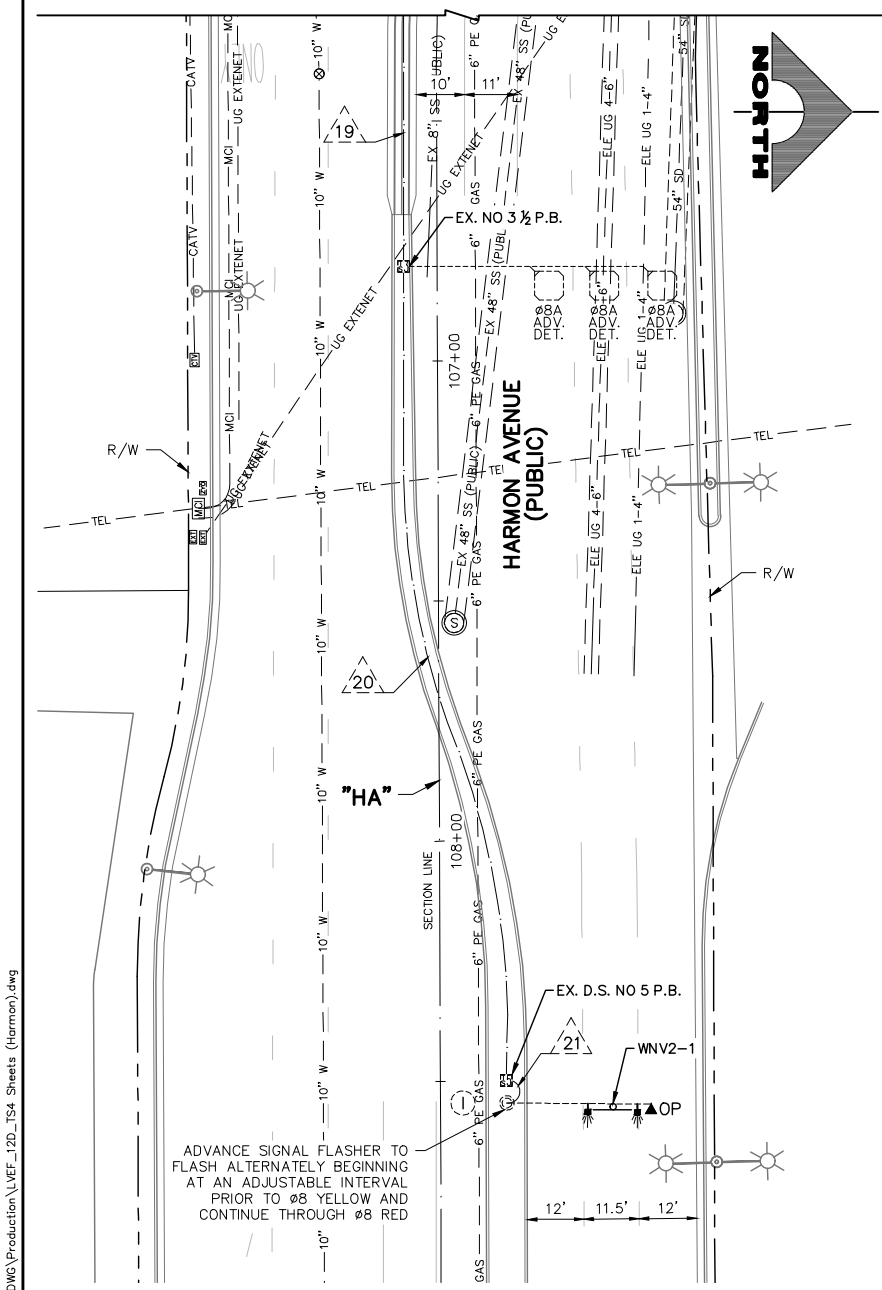
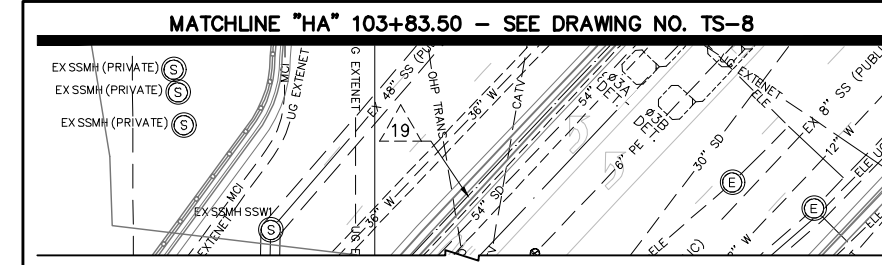
GCV
ENGINEERS & SURVEYORS

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T: 702.804.2000
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gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	TS-8
VERT: NONE	SHT. 111 OF 169
FIELD BOOK	L-2304

I:\Projects\500-897-LV-EF\DWG\Production\VEF_120_T54_Sheets (Hannon).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



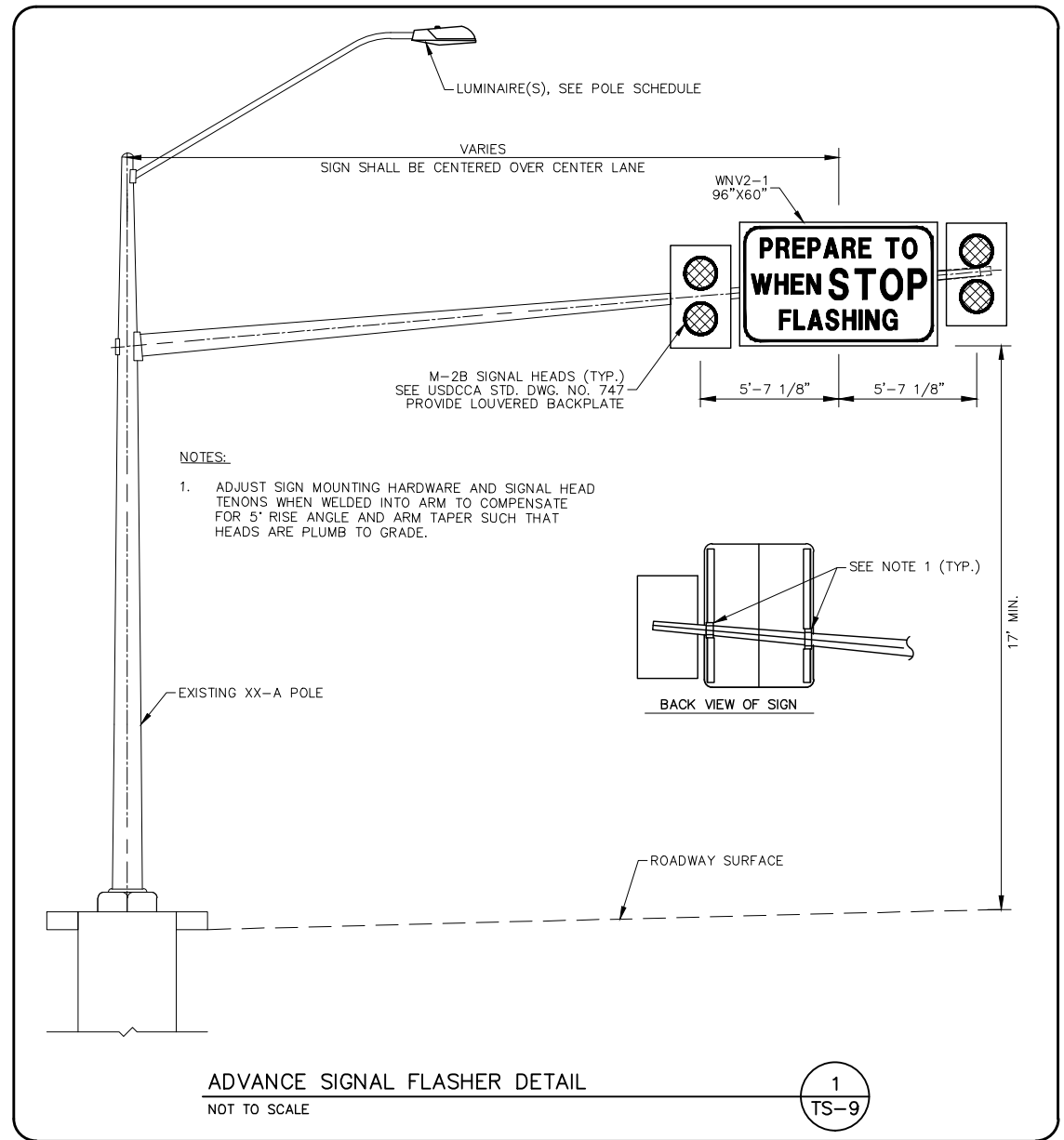
TRAFFIC SIGNAL NOTES

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.

SCALE: 20 0 20 40 FEET

CONSTRUCTION NOTES

1. REMOVE PULLBOX
2. INSTALL PULLBOX (SIZE AS SHOWN)
3. INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX TO SERVICE LOCATION AS NEEDED
4. PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
5. INSTALL NEW CCTV CAMERA SYSTEM WITH ADAPTER STAND PER USDOCA STD. DWG. NO 766 AND USS 687, AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST
6. INSTALL NEW CCTV CAMERA SYSTEM WITH 10-FT EXTENSION POLE PER USDOCA STD. DWG. NO 766 AND USS 687, AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST



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04-19-22 11:00:52

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL MODIFICATION PLAN
LAS VEGAS BOULEVARD/HARMON AVENUE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
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 gowengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **TS-9** SHT. 112 OF 169

L-2304

CLARK COUNTY WATER RECLAMATION DISTRICT

BY: DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21983

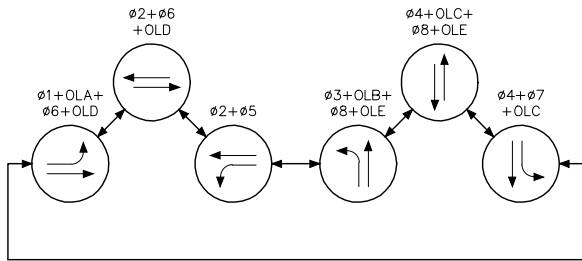
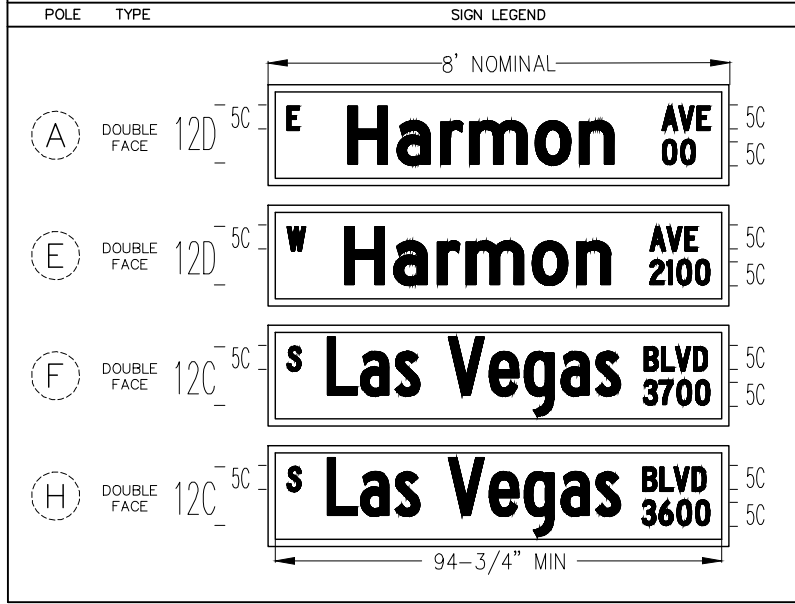
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

BID NO.: 605978-21

STREET NAME SIGN SCHEDULE



PHASE DIAGRAM

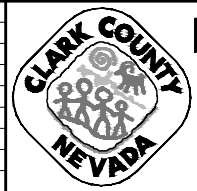
OPTICOM PHASES 2, 4, 6, & 8
FLASHING OPERATION SHALL BE ALL RED
#OLA=#1 WITH TIME DELAY
#OLB=#3 WITH TIME DELAY
#OLC=#4 WITH TIME DELAY
#OLD=#6 WITH TIME DELAY
#OLE=#8 WITH TIME DELAY

POLE SCHEDULE

POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL QUAD.	ARM LENGTH	LUM. QUAD.	ARM LENGTH	TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.		TYPE (PHASE)
(A)	EXISTING	XX-B(E)	1	80'	1	15'	M-2(7) B-2T	MAST ARM 3	-	-	-	-	2(E)	B(#7)(E) R(#6)(E)	EXISTING POLE AND FINISH TO REMAIN. REMOVE AND SALVAGE EXISTING MAST ARM AND LUMINAIRE ARMS. SALVAGE STREET NAME SIGN AND GPS PREEMPTION SYSTEM. INSTALL NEW MAST ARM AND LUMINAIRE ARMS ON EXISTING POLE. REMOVE AND SALVAGE EXISTING B-2T SIGNAL HEAD AND INSTALL NEW B-2T SIGNAL HEAD ON POLE SHAFT. #1 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #1 AND #6 DISPLAYS SHALL INCORPORATE ANGLE VISORS TO RESTRICT VISIBILITY FROM THE WESTBOUND STOP BAR. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1 AND #6 PER MANUFACTURE'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW GPS PREEMPTION SYSTEM ON MAST ARM. MOUNT R3-5L(3), R10-7(2), AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(B)	EXISTING	XX-B	4.5	75'	3.5	8' 15"	M-2(5) B-2T	MAST ARM 2.5	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM AND DSRC UNIT. INSTALL NEW POLE ON EXISTING FOUNDATION. #3 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT. MOUNT RN2-10, R10-11A, AND R3-5R ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(C)	EXISTING	XX-A	2.5	55'	1.5	15'	M-2(3) B-2T	MAST ARM 4.5	-	-	-	-	3.5	B(#5) R(#4)	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM AND RED LIGHT INDICATORS. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM.
(D)	EXISTING	XX-B(E)	3(E)	80'(E)	2(E)	15'(E)	M-2(7)(E) B-5T(E)	M.A.(E) 1(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF NEW POLE K. SALVAGE OPTICOM. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE K.
(E)	EXISTING	XX-B	3	80'	3	15'	M-2(6) B-5T	MAST ARM 1	-	-	-	-	4	B(#3) R(#2)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME, OPTICOM, AND RED LIGHT INDICATORS. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 AND #3 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #2 AND #5 DISPLAYS SHALL INCORPORATE ANGLE VISORS TO RESTRICT VISIBILITY FROM THE EASTBOUND STOP BAR. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #2 AND #5 PER MANUFACTURE'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT RN2-10 AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(F)	EXISTING	XX-B	2.5	85'	2.5	15'	M-2(5) B-2T	MAST ARM 4.5	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN AND OPTICOM. INSTALL NEW POLE ON EXISTING FOUNDATION. #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #4 AND #7 PER MANUFACTURE'S RECOMMENDATIONS. #4 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS FOR RIGHT-TURN LANE ONLY. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT R10-11A ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(G)	EXISTING	XX-A	4	-	3	15'	B-5T	2	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #1 DISPLAYS SHALL INCORPORATE ANGLE VISORS TO RESTRICT VISIBILITY FROM THE WESTBOUND STOP BAR. INSTALL CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDCCA 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685.
(H)	EXISTING	XX-B	4	85'	1	15'	M-2(6) B-2T	MAST ARM 2	-	-	-	-	1	B(#1) R(#8)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, CCTV CAMERA SYSTEM, AND RED LIGHT INDICATORS. INSTALL NEW POLE ON EXISTING FOUNDATION. #1, #3, AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #3 AND #8 PER MANUFACTURE'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDCCA 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685. RELOCATE METRO DOME CAMERAS AND APPURTENANCES FROM EXISTING POLE TO 10-FT EXTENSION POLE WITH MATCHING FINISH ON NEW POLE H. MOUNT RN2-10(2) AND R10-11A ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(I)	EXISTING (WB ADVANCE)	XX-A(E)	2(E)	30'(E)	-	-	M-2B(2)	MAST ARM	-	-	-	-	-	-	EXISTING POLE TO REMAIN. SALVAGE OPTICOM. SEE ADVANCE SIGNAL FLASHER DETAIL ON DWG. TS-9. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT WNV2-1 ON MAST ARM.
(J)	EXISTING (EB ADVANCE)	XX-A(E)	4(E)	40'(E)	2(E)	15'(E)	M-2B(2)	MAST ARM	-	-	-	-	-	-	EXISTING POLE TO REMAIN. SALVAGE OPTICOM. SEE ADVANCE SIGNAL FLASHER DETAIL ON DWG. TS-9. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. REMOVE AND SALVAGE HPS LUMINAIRES AND INSTALL 250W EQUIVALENT LED LUMINAIRES. MOUNT WNV2-1 ON MAST ARM.
(K)	"LVB" 181+13.9 46.7 RT	XX-B	1	85'	-	-	M-2(7)	MAST ARM	-	-	-	-	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. #1 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE D TO THIS POLE. MOUNT R3-5L(3) ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDCCA STD. DWG. NOS. 840 AND 841)
ALL NEW POLES, MAST ARMS, TENONS, EXTENSION POLES, AND LUMINAIRES SHALL BE PAINTED FIR GREEN (RAL 6009) METALLIC
ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9935 S. JONES BLVD.
ALL XX, XX-A, AND XX-B POLES SHALL INCLUDE TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA PER DETAIL A ON DRAWING NO. TS-19
* STRAIGHT ARM LUMINAIRE
(E) = EXISTING
B = BLUE
R = RED

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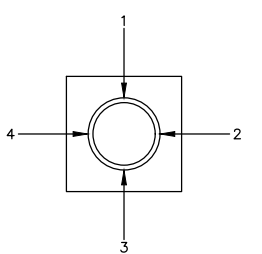
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
LAS VEGAS BOULEVARD/HARMON AVENUE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



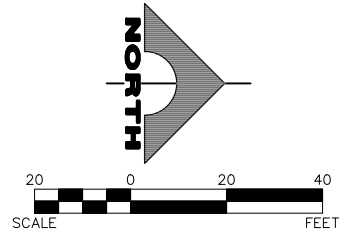
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: JRT
APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE: _____
HORIZ: NONE
VERT: NONE
FIELD BOOK: _____
DRAWING NO. **TS-10**
SHT. 113 OF 169
L-2304

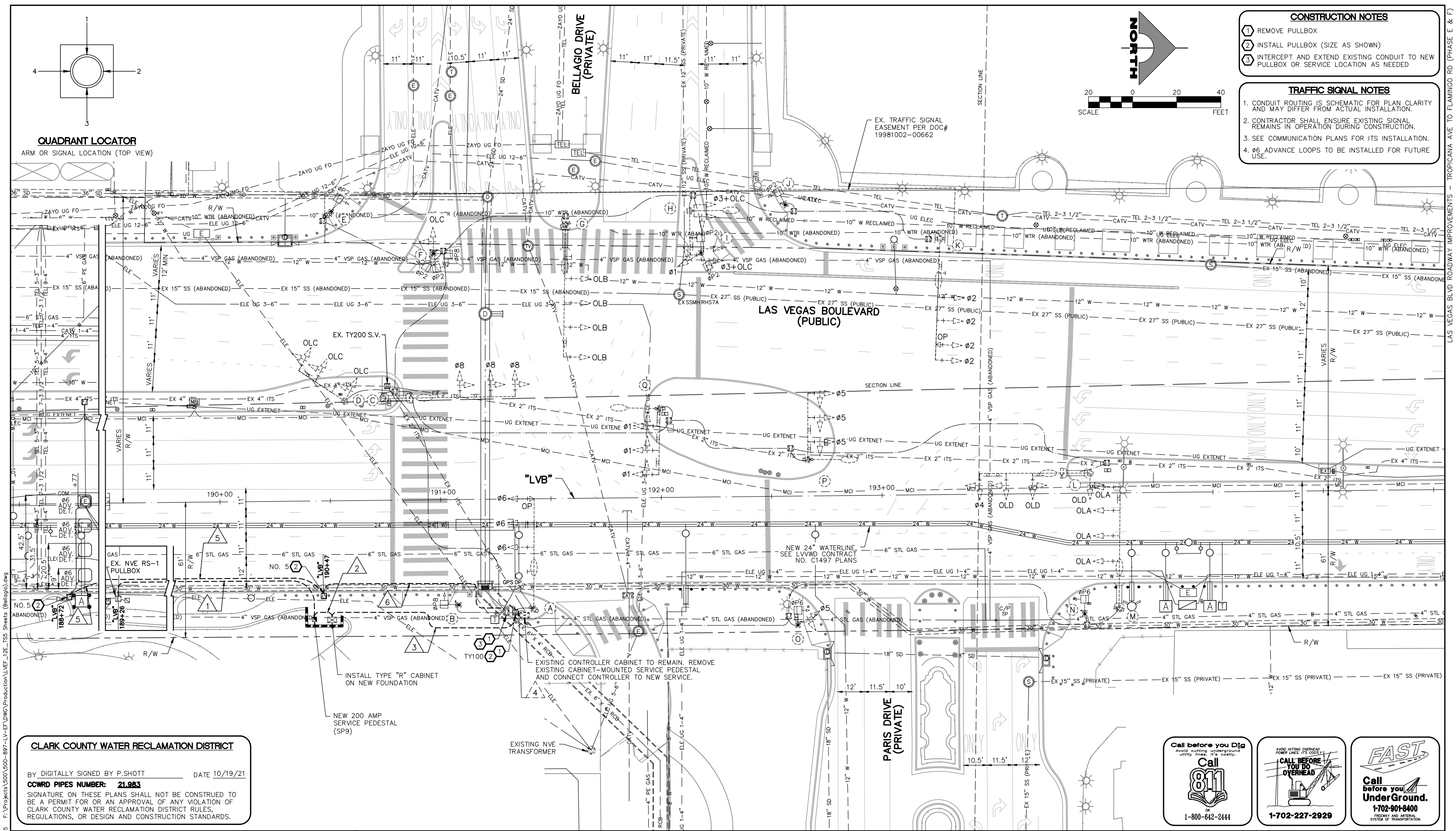
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



QUADRANT LOCATOR
ARM OR SIGNAL LOCATION (TOP VIEW)



- 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
- 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.
 4. #6 ADVANCE LOOPS TO BE INSTALLED FOR FUTURE USE.



CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21983

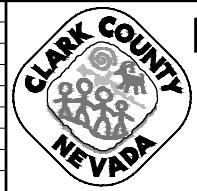
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

INSTALL TYPE "R" CABINET ON NEW FOUNDATION

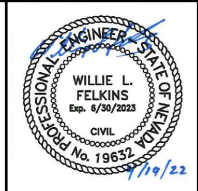
NEW 200 AMP SERVICE PEDESTAL (SP9)

EXISTING CONTROLLER CABINET TO REMAIN. REMOVE EXISTING CABINET-MOUNTED SERVICE PEDESTAL AND CONNECT CONTROLLER TO NEW SERVICE.

EXISTING NVE TRANSFORMER



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL MODIFICATION PLAN
LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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: HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK

DRAWING NO. TS-12
 SH. 115 OF 169
 L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

04-28-22 09:01:15 F:\Projects\500-897-LV-EF\DWG\Production\LV_EF_12E_TSS_Sheets (Bellagio).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

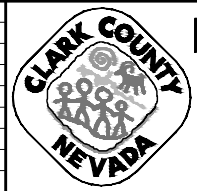
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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-A(E)	1(E)	50'(E)	1(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(B)	EXISTING	1-A(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(C)	EXISTING	XX-A(E)	2(E)	60'(E)	2(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(D)	EXISTING	XX-20'(E)	4.5(E)	25'(E)	-	-	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(E)	EXISTING	1-A(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(F)	EXISTING	1-A(E)	-	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(G)	EXISTING	XX-A(E)	3(E)	60'(E)	3(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(H)	EXISTING	XX(E)	3(E)	20'(E)	2(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(I)	EXISTING	1-A(E)	-	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(J)	EXISTING	1-A(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(K)	EXISTING	XX-A(E)	3(E)	60'(E)	3(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(L)	EXISTING	XX-A(E)	4(E)	50'(E)	4(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(M)	EXISTING	XX-A(E)	1(E)	55'(E)	1(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(N)	EXISTING	1-A(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(O)	EXISTING	1-A(E)	-	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMAIN.
(P)	EXISTING	XX(E)	1(E)	35'(E)	2(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.
(Q)	EXISTING	XX(E)	3(E)	30'(E)	4(E)	15'(E)	(E)	(E)	-	-	-	-	-	-	EXISTING POLE TO BE REMAIN.

(E) = EXISTING

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

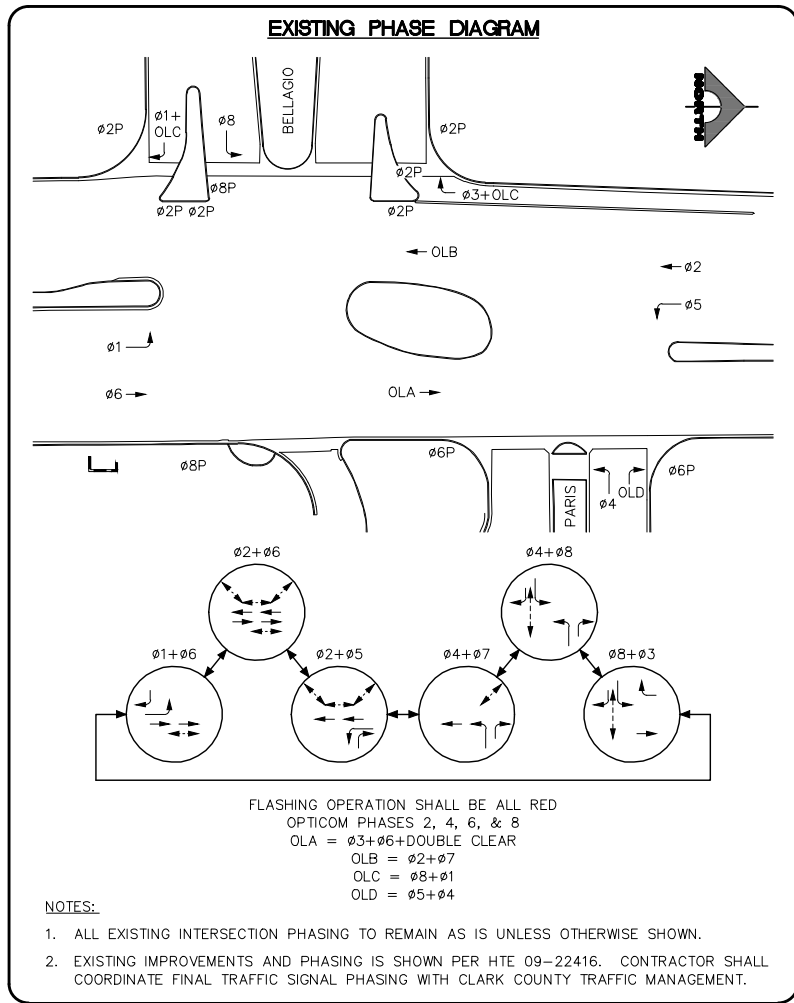
GCV
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 gowengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	TS-13
VERT: NONE	SHT. 116 OF 169
FIELD BOOK	L-2304

BID NO.: 605978-21

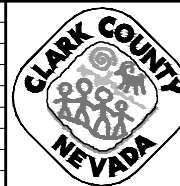
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CONDUIT AND WIRE SCHEDULE								
WIRE & CABLE	FROM	TO	VIA CONDUIT					
			1	2	3	4	5	6
CONDUCTORS BY NVE	RS-1(E)	SERVICE PEDESTAL	X	X	X	X	X	X
4-#4 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL	CONTROLLER(E)	X	X	X	X	X	X
CONDUIT SIZE (E) EXISTING			1-3"	1-3"	6-3" 2-2" (E)	1-3"	1-3"	1-3"

- CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDOCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.
- CONTRACTOR SHALL REMOVE AND REPULL EXISTING CONDUCTORS AS NEEDED.
- WITH THE EXCEPTION OF VIDEO DETECTION WIRE AND CABLE, CONDUCTORS AND CABLE NO LONGER IN USE SHALL BE REMOVED.
- CONDUIT NOS. 5 AND 6 TO BE INSTALLED FOR FUTURE USE.

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	TS-14
VERT: NONE	SHT. 117 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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 STREET LIGHTING PLANS FOR ITS INSTALLATION.
4. 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.

CONSTRUCTION NOTES

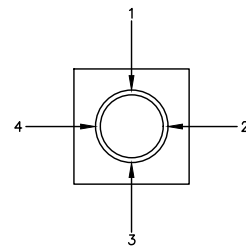
- 1 REMOVE PULLBOX
- 2 INSTALL PULLBOX (SIZE AS SHOWN)
- 3 INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX OR SERVICE LOCATION AS NEEDED
- 4 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
- 5 INSTALL NEW CCTV CAMERA SYSTEM WITH 10-FT EXTENSION POLE PER USDOCA STD. DWG. NO 766 AND USS 687, AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST
- 6 CONTRACTOR SHALL PROVIDE A LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO RTC/FAST PER USS 684

LEGEND

MINIMUM LIMITS OF DETECTION ZONE

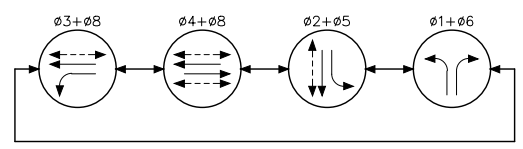
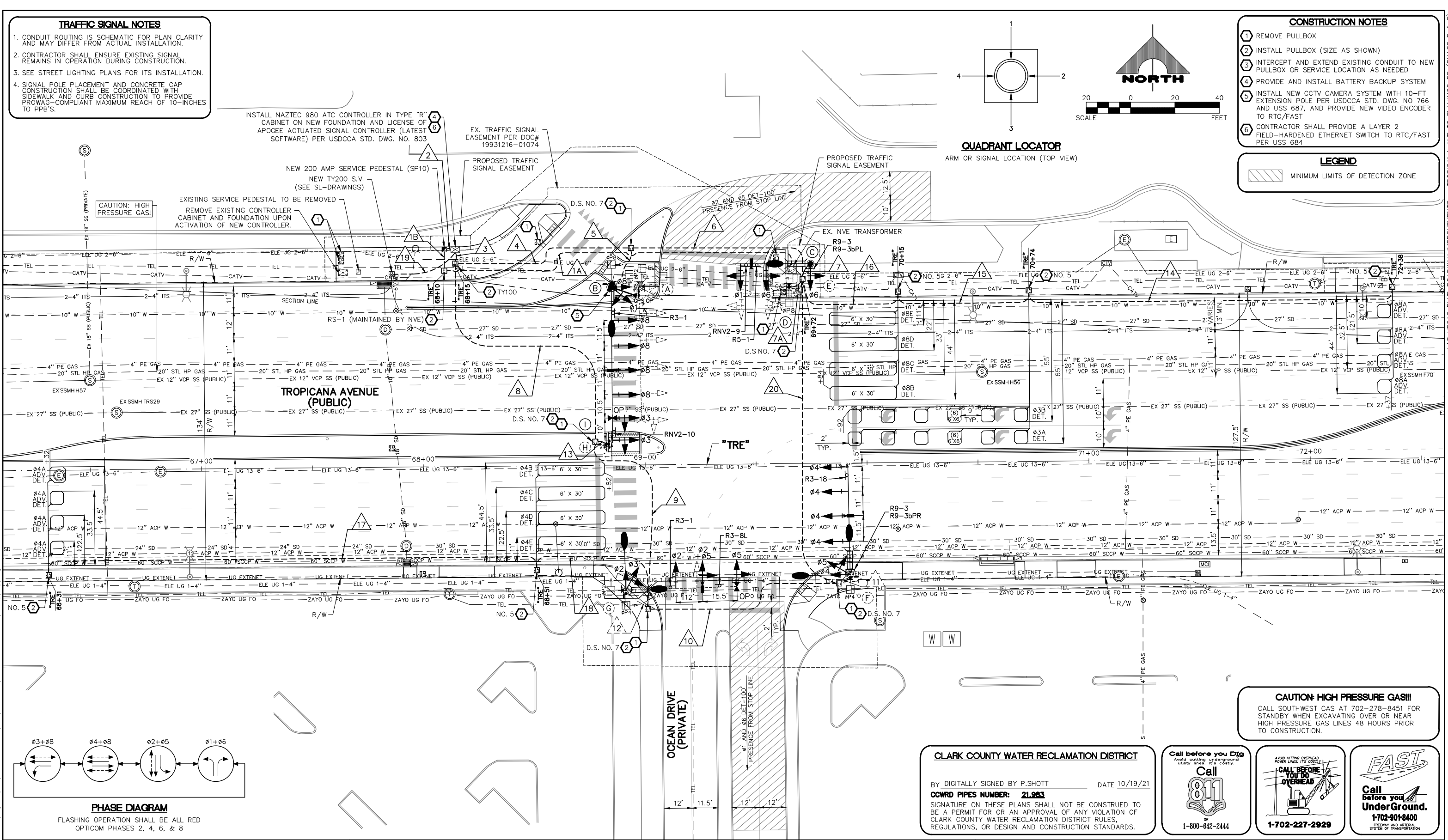
QUADRANT LOCATOR

ARM OR SIGNAL LOCATION (TOP VIEW)



INSTALL NAZTEC 980 ATC CONTROLLER IN TYPE "R" CABINET ON NEW FOUNDATION AND LICENSE OF APOGEE ACTUATED SIGNAL CONTROLLER (LATEST SOFTWARE) PER USDOCA STD. DWG. NO. 803

CAUTION: HIGH PRESSURE GAS!
EXISTING SERVICE PEDESTAL TO BE REMOVED
REMOVE EXISTING CONTROLLER CABINET AND FOUNDATION UPON ACTIVATION OF NEW CONTROLLER.



PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED OPTICOM PHASES 2, 4, 6, & 8

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.

CLARK COUNTY WATER RECLAMATION DISTRICT
BY: DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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 1-800-642-2444

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

FAST
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL MODIFICATION PLAN
TROPICANA AVENUE/OCEAN DRIVE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



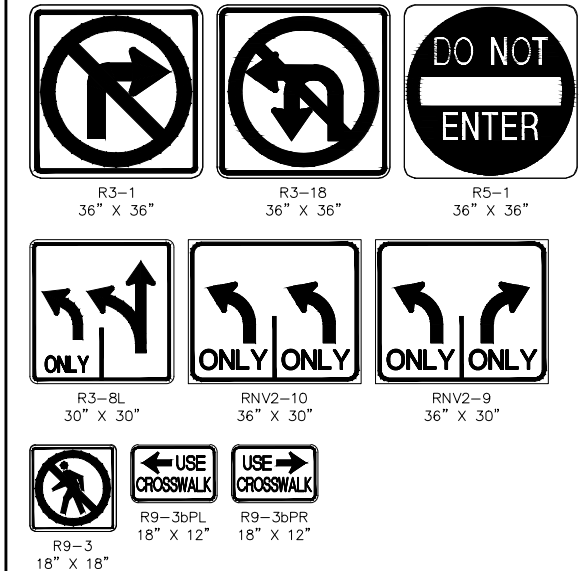
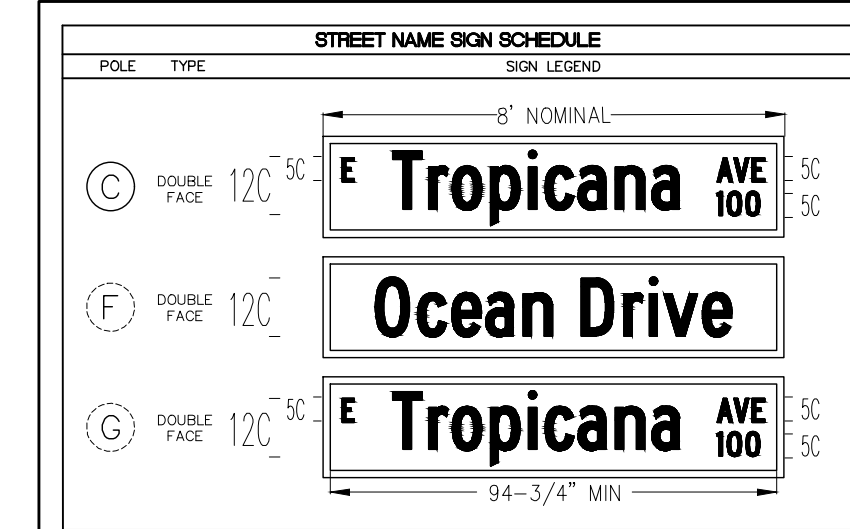
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
APPROVED BY: **GCV**
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK
DRAWING NO. TS-15
SHT. 118 OF 169
L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

I:\Projects\500-897-LV-EF\DWG\Production\VEF_12F_T56_Sheets (Ocean) (Trap).dwg 04-19-22 11:02:20

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



POLE SCHEDULE

POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS
		TYPE	SIGNAL ARM QUAD. LENGTH	LUM. ARM QUAD. LENGTH	TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.	TYPE (PHASE)		
A	EXISTING	XX-A(E)	3(E) 60'(E)	3(E) 15'(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE B. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE OPTICOM, AND VIDEO DETECTION CAMERA AND APPURTENANCES.	
B	"TIRE" 68+85.5 80.3' LT	XX-B	3 70'	3 15'	M-2(6) B-2T	MAST ARM 1	W-3T	1	1(ø8) 2(ø2)	LT	4	R(ø8) B(ø1)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. ø1 AND ø3 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR ø3 AND ø8 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW GPS PREEMPTION SYSTEM. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FT EXTENSION POLE PER USDOCA STD. DWG. 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. MOUNT RNV2-10 AND R3-1 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.	
C	"TIRE" 69+75.3 90.0' LT	XX-A	4 35'	4 15'	M-2(2) B-3T	MAST ARM 2	-	-	-	-	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. ø1 AND ø6 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR ø1 AND ø6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. MOUNT RNV2-9 AND R5-1 ON MAST ARM. MOUNT R9-3 AND R9-3bPL ON POLE SHAFT.	
D	"TIRE" 69+65.5 79.6' LT	1-A	-	-	-	-	W-0T	2	1(ø8)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.	
E	EXISTING	XX-A(E)	4(E) 25'(E)	4(E) 15'(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE C. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE VIDEO DETECTION CAMERA AND APPURTENANCES.	
F	EXISTING	XX-A(E)	1(E) 50'	1(E) 15'(E)	M-2(4) B-2T	MAST ARM 3	W-0T	3	3(ø4)	LT	2	R(ø4) B(ø5)	MOUNT NEW MAST ARM ON EXISTING POLE. REMOVE AND SALVAGE EXISTING B-2T SIGNAL HEAD AND INSTALL NEW B-2T SIGNAL HEAD ON POLE SHAFT. ø5 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-0T PEDESTRIAN SIGNAL HEAD ON POLE SHAFT. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR ø4 PER MANUFACTURER'S RECOMMENDATIONS. REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGN AND MOUNTING HARDWARE AND INSTALL NEW PER SIGN SCHEDULE. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. FIELD WELD LUMINAIRE ARM ATTACHMENT PLATE USING A CERTIFIED WELDER. INSTALL NEW LUMINAIRE ARM ON EXISTING POLE AND INSTALL 400W EQUIVALENT LED LUMINAIRE. MOUNT R3-18 ON MAST ARM. MOUNT R9-3 AND R9-3bPR ON POLE SHAFT.	
G	EXISTING	XX-A(E)	2(E) 50'(E)	1 2(E) 15'(E)	M-2A M-2(2) B-2T	MAST ARM 4	W-3T	4	3(ø4) 4(ø2)	RT	3	R(ø2) B(ø3)	EXISTING POLE TO REMAIN. REMOVE AND SALVAGE EXISTING MAST ARM SIGNAL HEADS. INSTALL ONE NEW M-2 HEAD ON EXISTING TENON. INSTALL ONE NEW M-2A HEAD AND ONE NEW M-2 HEAD AND NEW TENONS. REMOVE UNUSED TENON. WELD PATCH TO CLOSE HOLES, AND HOT-STICK GALVANIZE PATCH. ALL NEW TENONS SHALL BE HOT-STICK GALVANIZED. REMOVE AND SALVAGE EXISTING B-2T SIGNAL HEAD AND INSTALL NEW B-2T SIGNAL HEAD ON POLE SHAFT. ø3 AND ø5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-3T PEDESTRIAN SIGNAL HEAD ON POLE SHAFT. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR ø2 AND ø5 PER MANUFACTURER'S RECOMMENDATIONS. REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGN AND INSTALL NEW AS INDICATED IN SIGN SCHEDULE. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB AS SHOWN. ON QUADRANTS 1 AND 2, WELD PATCH TO CLOSE HOLES, AND HOT-STICK GALVANIZE PATCH. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL 400W EQUIVALENT LED LUMINAIRE. FIELD WELD LUMINAIRE ARM ATTACHMENT PLATE USING A CERTIFIED WELDER. INSTALL NEW LUMINAIRE ARM ON EXISTING POLE AND INSTALL 400W EQUIVALENT LED LUMINAIRE. REMOVE AND SALVAGE ALL TRAFFIC SIGNS. MOUNT R3-8L AND R3-1 ON MAST ARM.	
H	EXISTING	PED(E)	-	-	-	-	-	-	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE I. REMOVE FOUNDATION IN ITS ENTIRETY.	
I	"TIRE" 68+82.5 9.5' LT	1-A	-	-	-	-	-	-	2(ø2)	LT/RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE.	

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDOCA STD. DWG. NOS. 840 AND 841)
 ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9935 S. JONES BLVD.
 ALL XX, XX-A, AND XX-B POLES SHALL INCLUDE TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA PER DETAIL A ON DRAWING NO. TS-19
 (E) = EXISTING
 B = BLUE
 R = RED

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	VIA CONDUIT																						
			1A	1B	2	3	4	5	6	7	7A	8	9	10	11	12	13	14	15	16	17	18	19	20	
CONDUCTORS BY NVE	NVE TRANSFORMER(E)	RS-1																							
CONDUCTORS BY NVE	RS-1	SERVICE PEDESTAL																							
4-#4 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL	CONTROLLER																							
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA235H GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE	CONTROLLER	POLE B																							
3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET)	CONTROLLER	POLE C																							
3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET)	CONTROLLER	POLE D																							
BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER	POLE E																							
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET)	CONTROLLER	POLE F(E)																							
3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET)	CONTROLLER	POLE G(E)																							
BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER	POLE I																							
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE B LUMINAIRE																							
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE C LUMINAIRE																							
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE F LUMINAIRE																							
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE G LUMINAIRE																							
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER	DET ø8A																							
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET ø3A, ø3B																							
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET ø8B, ø8C, ø8D, ø8E																							
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER	DET ø4A																							
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER	DET ø4B, ø4C, ø4D, ø4E																							
12-STRAND CDCA, 6 PR #22	CONTROLLER	TY200 S.V.																							
CONDUIT SIZE (E) EXISTING			1-4"	1-3"	1-3"	6-3"	4-3"	1-3"	4-3"	1-3"	1-3"	1-2"	4-3"	4-3"	2-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-4"	2-3"	

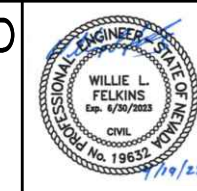
- A NO. 8 GROUNDING WIRE SHALL BE RAN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.
- VIDEO DETECTION CABLES FOR FUTURE USE SHALL RUN FROM THE CONTROLLER CABINET TO SIGNAL POLE BASES WITHOUT VIDEO DETECTION CAMERAS. PROVIDE TWELVE FOOT OF SLACK IN CABINET AND ADEQUATE SLACK IN POLE BASE TO EXTEND TWO FEET BEYOND RIM OF HAND HOLE.
- CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDOCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.
- CONTRACTOR SHALL REMOVE AND REPUSS EXISTING CONDUCTORS AS NEADED.
- WITH THE EXCEPTION OF VIDEO DETECTION WIRE AND CABLE, CONDUCTORS AND CABLE NO LONGER IN USE SHALL BE REMOVED.
- NO. 10 WIRES FOR METRO DOME CAMERA DUPLEX OUTLETS SHALL BE RAN FROM SERVICE PEDESTAL TO SIGNAL POLE BASE (CONDUIT ROUTING FROM SERVICE PEDESTAL TO CONTROLLER NOT SHOWN FOR CLARITY).

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
TROPICANA AVENUE/OCEAN DRIVE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 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. **TS-16**
 SHT. 119 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

TRAFFIC SIGNAL NOTES

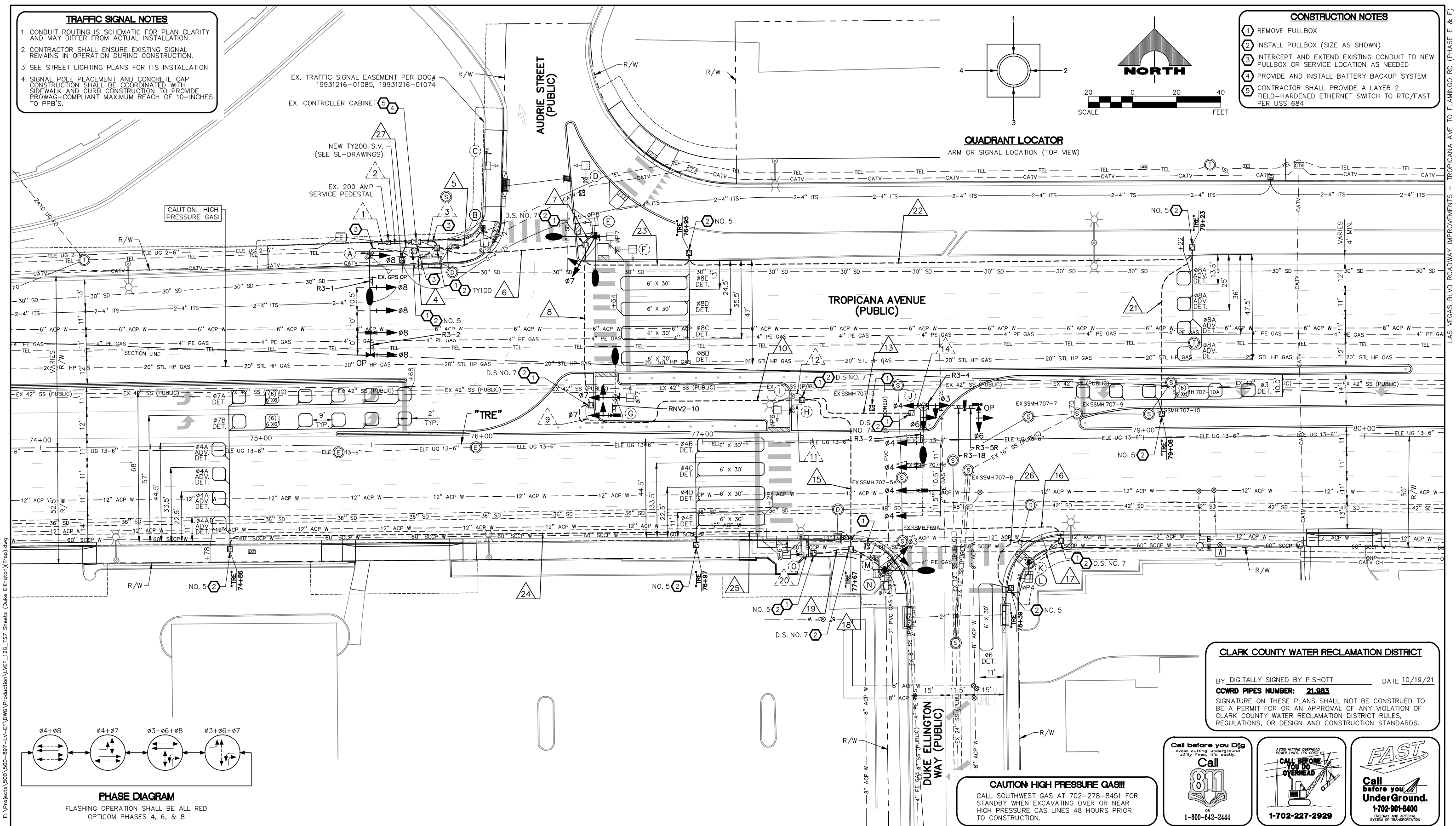
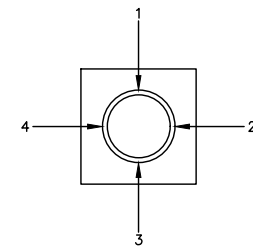
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
3. SEE STREET LIGHTING PLANS FOR ITS INSTALLATION.
4. SIGNAL POLE PLACEMENT AND CONCRETE CAP CONSTRUCTION SHALL BE COORDINATED WITH SIDEWALK AND CURB CONSTRUCTION TO PROVIDE PROWAG-COMPLIANT MAXIMUM REACH OF 10-INCHES TO PPB'S.

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 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
- 5 CONTRACTOR SHALL PROVIDE A LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO RTC/FAST PER USS 684

QUADRANT LOCATOR

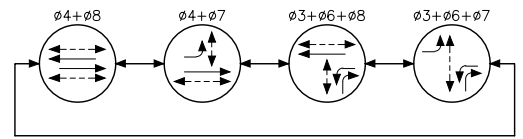
ARM OR SIGNAL LOCATION (TOP VIEW)



CAUTION: HIGH PRESSURE GAS!!!

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.

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.983
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.



PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED OPTICOM PHASES 4, 6, & 8



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL MODIFICATION PLAN
TROPICANA AVENUE/DUKE ELLINGTON WAY
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

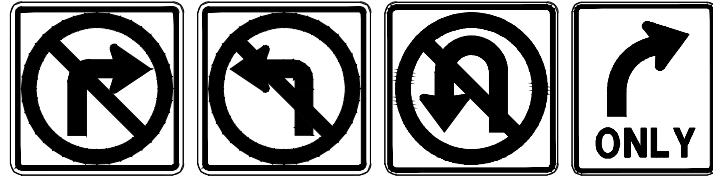
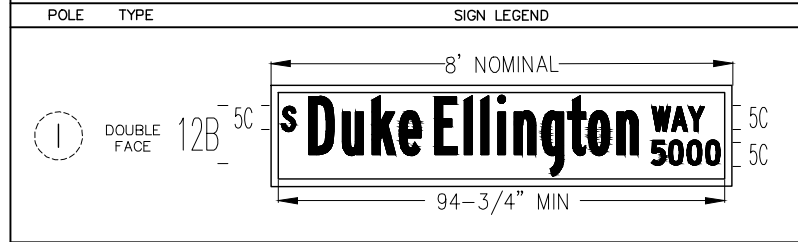
SCALE: HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK:
DRAWING NO. TS-17
SHT. 120 OF 169
L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

I:\Projects\500\500-897-LV-EF\DWG\Production\VEF_120_157_Sheets (Duke Ellington)(Trop).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

STREET NAME SIGN SCHEDULE



R3-1 36" X 36"
R3-2 36" X 36"
R3-4 36" X 36"
R3-5R 30" X 36"



R3-18 36" X 36"
RN2-10 36" X 30"

POLE SCHEDULE

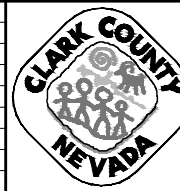
POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL ARM		LUM. ARM		TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.		TYPE (PHASE)
			QUAD.	LENGTH	QUAD.	LENGTH									
(A)	EXISTING	XX(E)	3	45'	3(E)	15'(E)	M-2(4) B-1T	MAST ARM 1	-	-	-	-	4	R(#8)	MOUNT NEW MAST ARM ON EXISTING POLE. EXISTING DSRC, CCTV, AND GPS PREEMPTION TO REMAIN. #8 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #8 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. MOUNT R3-2 and R3-1 ON MAST ARM.
(B)	"TRE" 76+01.5 97.8' LT	1-A	-	-	-	-	-	-	W-0T	4	3(#8)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.
(C)	EXISTING	1-B(MOD) (E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE B. REMOVE FOUNDATION IN ITS ENTIRETY.
(D)	EXISTING	1-B(MOD) (E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION IN ITS ENTIRETY.
(E)	"TRE" 76+52.3 93.3' LT	XX-A	4	-	3 4	15' 15'	B-5T	2	W-3T	2	1(#8) 2(#7)	RT LT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #7 DISPLAY SHALL BE ALL ARROW INDICATIONS.
(F)	EXISTING	1-B(E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION IN ITS ENTIRETY.
(G)	EXISTING	XX(E)	3(E)	8'(E)	1(E)	15'(E)	M-2 B-5T	MAST ARM 1	W-0T	1	2(#7)	RT	-	-	EXISTING POLE TO REMAIN. MODIFY FOUNDATION CAP TO PROVIDE 10-INCH ADA REACH. REMOVE AND SALVAGE EXISTING MAST ARM SIGNAL HEAD AND INSTALL NEW M-2 HEAD ON EXISTING TENON. REMOVE AND SALVAGE EXISTING B-5T SIGNAL HEAD AND INSTALL NEW B-5T SIGNAL HEAD ON POLE SHAFT. #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-0T PEDESTRIAN SIGNAL HEAD ON POLE SHAFT. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #7 PER MANUFACTURER'S RECOMMENDATIONS. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. REMOVE AND SALVAGE EXISTING MAST ARM SIGNS AND MOUNT RN2-10 ON MAST ARM.
(H)	EXISTING	1-B(E)	-	-	-	-	-	-	W-1T	POST TOP	4(#6)	RT	-	-	EXISTING POLE TO REMAIN. MODIFY FOUNDATION CAP TO PROVIDE 10-INCH ADA REACH. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-1T PEDESTRIAN SIGNAL HEAD. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB.
(I)	EXISTING	ST.LT.	-	-	3.5	15'(E)	-	-	-	-	-	-	-	-	EXISTING POLE TO REMAIN. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE.
(J)	EXISTING	XX-A(E)	2(E) 3(E)	25'(E) 50'(E)	3(E)	15'(E)	M-2(5) B-2T B-5T	MAST ARM 1	-	-	-	-	-	-	EXISTING POLE TO REMAIN. INSTALL THREE NEW M-2 HEADS ON EXISTING TENONS. INSTALL TWO NEW M-2 HEADS (#4) AND NEW TENONS. ALL NEW TENONS SHALL BE HOT-STICK GALVANIZED. REMOVE UNUSED TENONS, WELD PATCH TO CLOSE HOLES, AND HOT-STICK GALVANIZE PATCH. REMOVE AND SALVAGE MODIFIED B-2T SIGNAL HEAD. MODIFY PROPOSED B-2T ASSEMBLY TO INSTALL THIRD SIGNAL HEAD (B-5T) ON SAME ASSEMBLY. #3 AND #6 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #3, #4, AND #6 PER MANUFACTURER'S RECOMMENDATIONS. REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGN AND INSTALL NEW AS INDICATED IN SIGN SCHEDULE. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. REMOVE EXISTING SIGNS AND MOUNT NEW R3-2, R3-5R, AND R3-18 ON MAST ARM.
(K)	EXISTING	1-B(E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE K. REMOVE FOUNDATION IN ITS ENTIRETY.
(L)	"TRE" 78+47.4 56.4' RT	1-A	-	-	-	-	-	-	W-0T	3	1(#4)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.
(M)	EXISTING	1-A(E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE M. REMOVE FOUNDATION IN ITS ENTIRETY.
(N)	"TRE" 77+B2.1 59.0' RT	XX-A	2	-	2	15'	B-5T	4	W-0T	4	1(#4)	LT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #3 DISPLAY SHALL HAVE ALL ARROW INDICATIONS.
(O)	EXISTING	STLT(E)	-	-	1(E)	15'(E)	-	-	W-0T	3	4(#6)	LT	-	-	EXISTING POLE TO REMAIN. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-0T PEDESTRIAN AS SHOWN. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE.

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDCCA STD. DWG. NOS. 840 AND 841)
ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9935 S. JONES BLVD.
ALL XX, XX-A, AND XX-B POLES SHALL INCLUDE TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA PER DETAIL A ON DRAWING NO. TS-19
(E) = EXISTING
B = BLUE
R = RED

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_120_157_Sheets (Duke Ellington)(Trop).dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

REV. NO.	DATE	DESCRIPTION	APPROVED

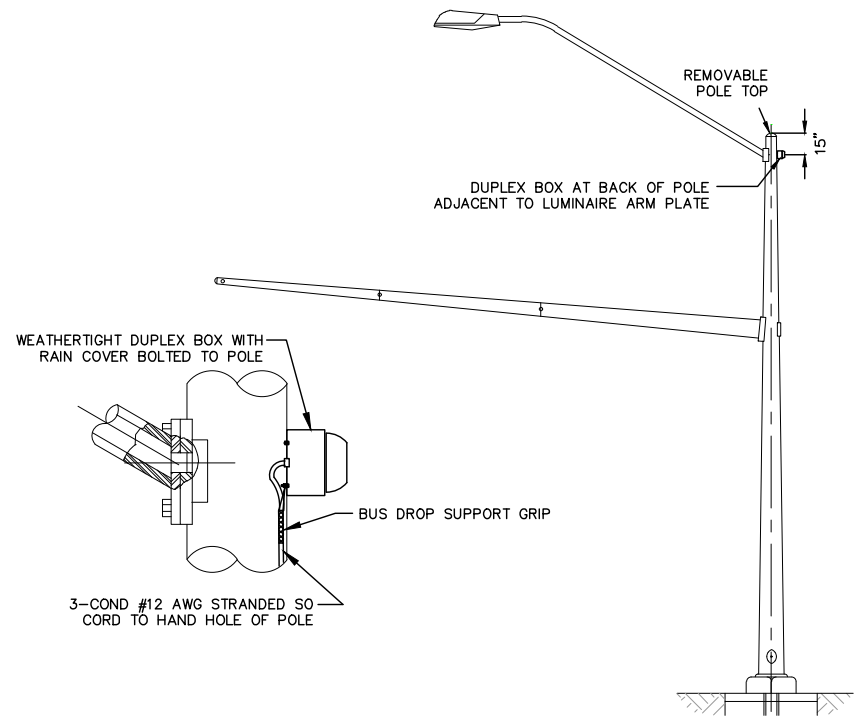


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
TROPICANA AVENUE/DUKE ELLINGTON WAY
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: DSH CHECKED BY: WLF
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	TS-18
VERT: NONE	SHT. 121 OF 169
FIELD BOOK	L-2304



NOTES:

1. SO CORD SHALL HAVE ENOUGH LENGTH TO EXTEND 18" OUTSIDE OF HAND HOLE COVER
2. DUPLEX BOX TO BE BOLTED TO POLE AT BACK OF LUMINAIRE ARM
3. SO CORD SHALL ENTER BOX USING APPROPRIATE SIZE NIPPLE WITH INSULATING BUSHINGS
4. SO CORD SHALL BE SUPPORTED AT BACK OF BOX USING CABLE GRIP SIZED FOR SO CORD
5. DUPLEX OUTLET FOR 20 AMP 120 VAC SHALL BE INSTALLED IN DUPLEX BOX
6. CONNECTION IN SERVICE PEDESTAL SHALL BE TO A 20 AMP CIRCUIT BREAKER
7. SO CORD TO OUTLET SHALL BE SPLICED IN HAND HOLE OF POLE TO NO. 10 WIRES FROM SERVICE
8. OUTLET TO BE INSTALLED AT TOP OF ALL XX AND LARGER TRAFFIC SIGNAL POLES

TRAFFIC SIGNAL TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA
NOT TO SCALE

A
TS-19

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)																											
EXISTING	SERVICE PEDESTAL(E)	CONTROLLER(E)																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE A(E)																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE B																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE E																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE G(E)																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 2-25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 9-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE H(E)																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 2-25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 9-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE J(E)																											
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25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 2-25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 9-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE N																											
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 2-25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 9-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE O																											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE A LUMINAIRE																											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE E LUMINAIRE																											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE G LUMINAIRE																											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE I LUMINAIRE																											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE J LUMINAIRE																											
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE N LUMINAIRE																											
1-#12 AWG. PRESENCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET #3																											
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET #8A																											
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #8B, #8C, #8D, #8E																											
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET #4A																											
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #7A, #7B																											
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #4B, #4C, #4D, #4E																											
1-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET #6																											
12-STRAND CDCA, 6 PR #22	CONTROLLER(E)	TY200 S.V.																											
CONDUIT SIZE (E) EXISTING			(E)	(E)	4-3" 2-2" (E)	1-3"	1-2"	4-3" 4-2"	1-3"	4-3" 2-2" (E)	1-3"	1-2"	4-3" 2-2" (E)	1-2"	1-2"	2-3"	1-3"	4-3" 2-2" (E)	2-3"	1-2"	1-3"	1-2"	1-3"	1-2"	1-3"	1-2"	1-3"	1-4"	

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 SIGNAL POLE BASES WITHOUT VIDEO DETECTION CAMERAS. PROVIDE TWELVE FOOT OF SLACK IN CABINET AND ADEQUATE SLACK IN POLE BASE TO EXTEND TWO FEET BEYOND RIM OF HAND HOLE.
3. CONDUIT INSTALLATIONS AND ASSOCIATED PAVEMENT PATCHES SHALL BE IN CONFORMANCE WITH USDOCA DWG. NOS. 500.1, 500.2, 500.3, AND 733.
4. CONTRACTOR SHALL REMOVE AND REPULL EXISTING CONDUCTORS AS NEEDED.
5. WITH THE EXCEPTION OF VIDEO DETECTION WIRE AND CABLE, CONDUCTORS AND CABLE NO LONGER IN USE SHALL BE REMOVED.
6. NO. 10 WIRES FOR METRO DOME CAMERA DUPLEX OUTLETS SHALL BE RAN FROM SERVICE PEDESTAL TO SIGNAL POLE BASE (CONDUIT ROUTING FROM SERVICE PEDESTAL TO CONTROLLER NOT SHOWN FOR CLARITY).

ADDITIONAL INTERSECTIONS DSRC UPGRADE IMPROVEMENTS

LAS VEGAS BOULEVARD/FOUR SEASONS DRIVE
LAS VEGAS BOULEVARD/MANDALAY BAY ROAD
LAS VEGAS BOULEVARD/RENO AVENUE
LAS VEGAS BOULEVARD/CAESARS PALACE DRIVE
LAS VEGAS BOULEVARD/SOUTH SIEGFRIED AND ROY DRIVE
LAS VEGAS BOULEVARD/NORTH SIEGFRIED AND ROY DRIVE
LAS VEGAS BOULEVARD/SIREN'S COVE BOULEVARD & PALAZZO DRIVE
LAS VEGAS BOULEVARD/FASHION SHOW DRIVE
LAS VEGAS BOULEVARD/WYNN LAS VEGAS
LAS VEGAS BOULEVARD/CATHEDRAL WAY & RESORTS WORLD DRIVE & WYNN BOULEVARD
LAS VEGAS BOULEVARD/CONVENTION CENTER DRIVE
LAS VEGAS BOULEVARD/RESORTS WORLD DRIVE
LAS VEGAS BOULEVARD/ELVIS PRESLEY BOULEVARD & CIRCUS CIRCUS DRIVE
LAS VEGAS BOULEVARD/LISET WAY
FLAMINGO ROAD/HOWARD HUGHES PARKWAY
FLAMINGO ROAD/KOVAL LANE
FLAMINGO ROAD/LINQ LANE
FLAMINGO ROAD/BALLY'S PEDESTRIAN CROSSING
PARADISE ROAD/FLAMINGO ROAD
PARADISE ROAD/CORPORATE DRIVE
PARADISE ROAD/SANDS AVENUE & TWAIN AVENUE
PARADISE ROAD/EDISON CIRCLE

ADDITIONAL INTERSECTIONS DSRC UPGRADE IMPROVEMENTS

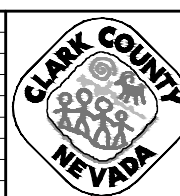
PARADISE ROAD/SIERRA VISTA DRIVE
PARADISE ROAD/DESERT INN ROAD
PARADISE ROAD/CONVENTION CENTER DRIVE
PARADISE ROAD/ELVIS PRESLEY BOULEVARD
PARADISE ROAD/KAREN AVENUE
SANDS AVENUE/WYNN SOUTH GATE & PALAZZO
SANDS AVENUE/KOVAL LANE
SANDS AVENUE/HOWARD HUGHES PARKWAY
KOVAL LANE/WINNICK AVENUE
KOVAL LANE/KRUEGER DRIVE
SIERRA VISTA DRIVE/UNIVERSITY CENTER DRIVE
JOE W BROWN DRIVE/DESERT INN ROAD
JOE W BROWN DRIVE/KAREN AVENUE
DECATUR BOULEVARD/SUNSET ROAD
TROPICANA AVENUE/VALLEY VIEW BOULEVARD
HARMON AVENUE/DECATUR BOULEVARD
HARMON AVENUE/CAMERON STREET
HARMON AVENUE/ARVILLE STREET
HARMON AVENUE/ALDEBARAN AVENUE
HARMON AVENUE/VALLEY VIEW BOULEVARD

1. REMOVE EXISTING DSRC-ONLY UNIT AND INSTALL NEW DUAL-MODE DSRC/C-V2X UNIT.
2. UTILIZE EXISTING CABLE.
3. REPLACE RJ45 CONNECTOR IF NECESSARY.

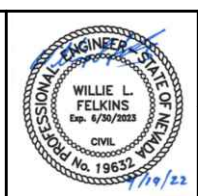
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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
TRAFFIC SIGNAL SCHEDULES AND DETAILS
TROPICANA AVENUE/DUKE ELLINGTON WAY
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

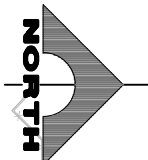
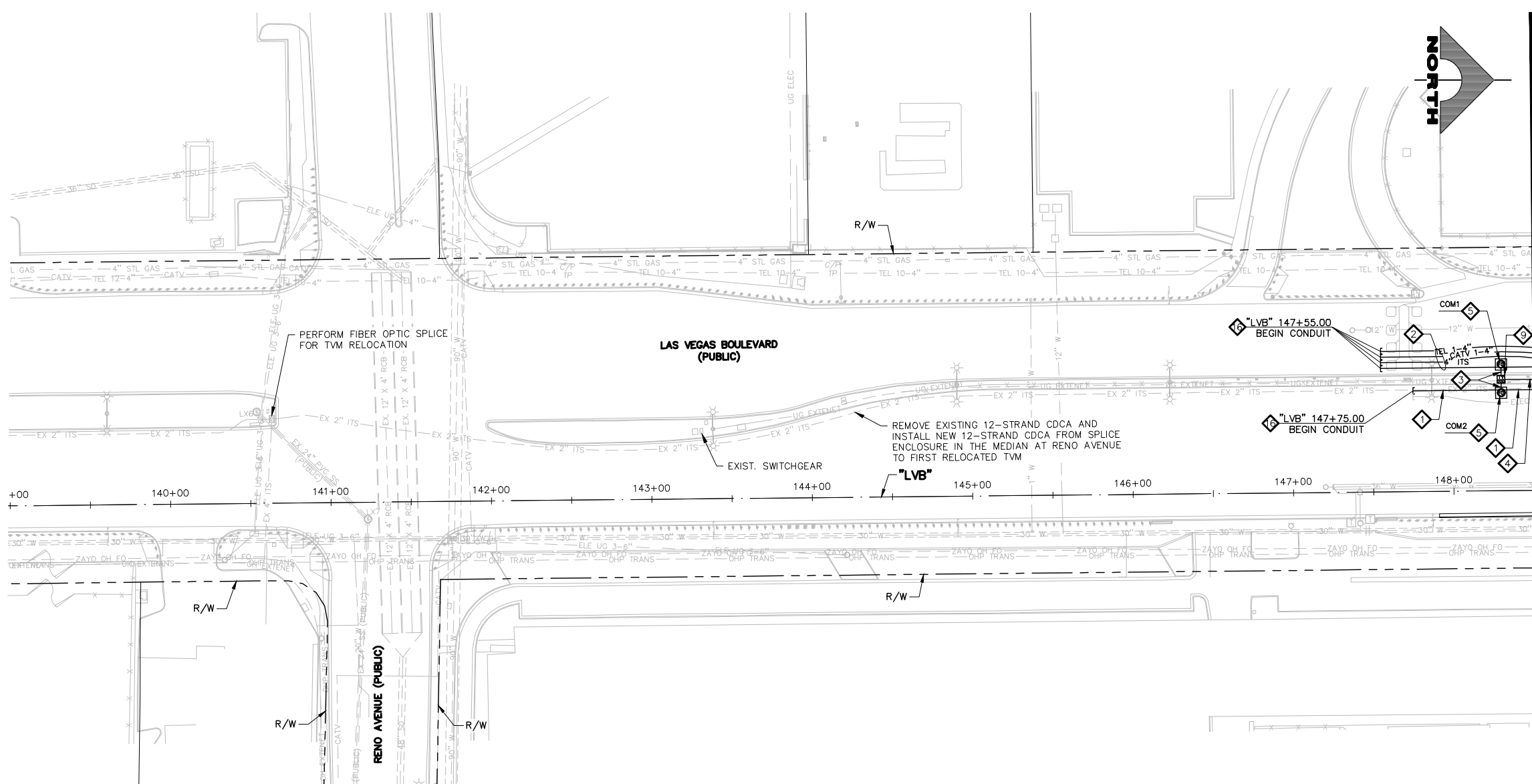


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE
 HORIZ: NONE
 VERT: NONE
 FIELD BOOK
 DRAWING NO.
TS-19
 SHT. 122 OF 169
 L-2304

BID NO.: 605978-21

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



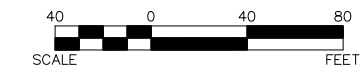
SEE DRAWING NO. COM-2
MATCHLINE
"LVB" 148+50.00

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 (1) 1-INCH PVC CONDUIT
 - 7 INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
 - 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 1, DRAWING CDT-3)
 - 12 NOT USED
 - 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 STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
 - 17 INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-7)
 - 18 INSTALL 4'X4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
 - 19 RELOCATE EXISTING PULL BOX
 - 20 ADJUST EXISTING PULL BOX
 - 21 RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
 - 22 REMOVE AND SALVAGE EXISTING RTC TVM (BY RTC)
 - 23 INSTALL (2) 4-INCH PVC CONDUIT LATERAL (PROVIDER)
 - 24 INSTALL (1) 4-INCH PVC CONDUIT LATERAL (FAST)
 - 25 REMOVE PULLBOX
 - P PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- NOTES**
1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
 2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

WATERLINE SEPARATION NOTE

PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.



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 14 DAYS 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.

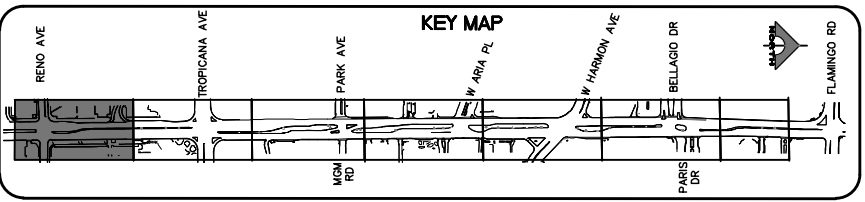
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883

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

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

COMMUNICATION PLAN

"LVB" 139+00.00 TO "LVB" 148+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY: _____

SCALE: HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK: _____

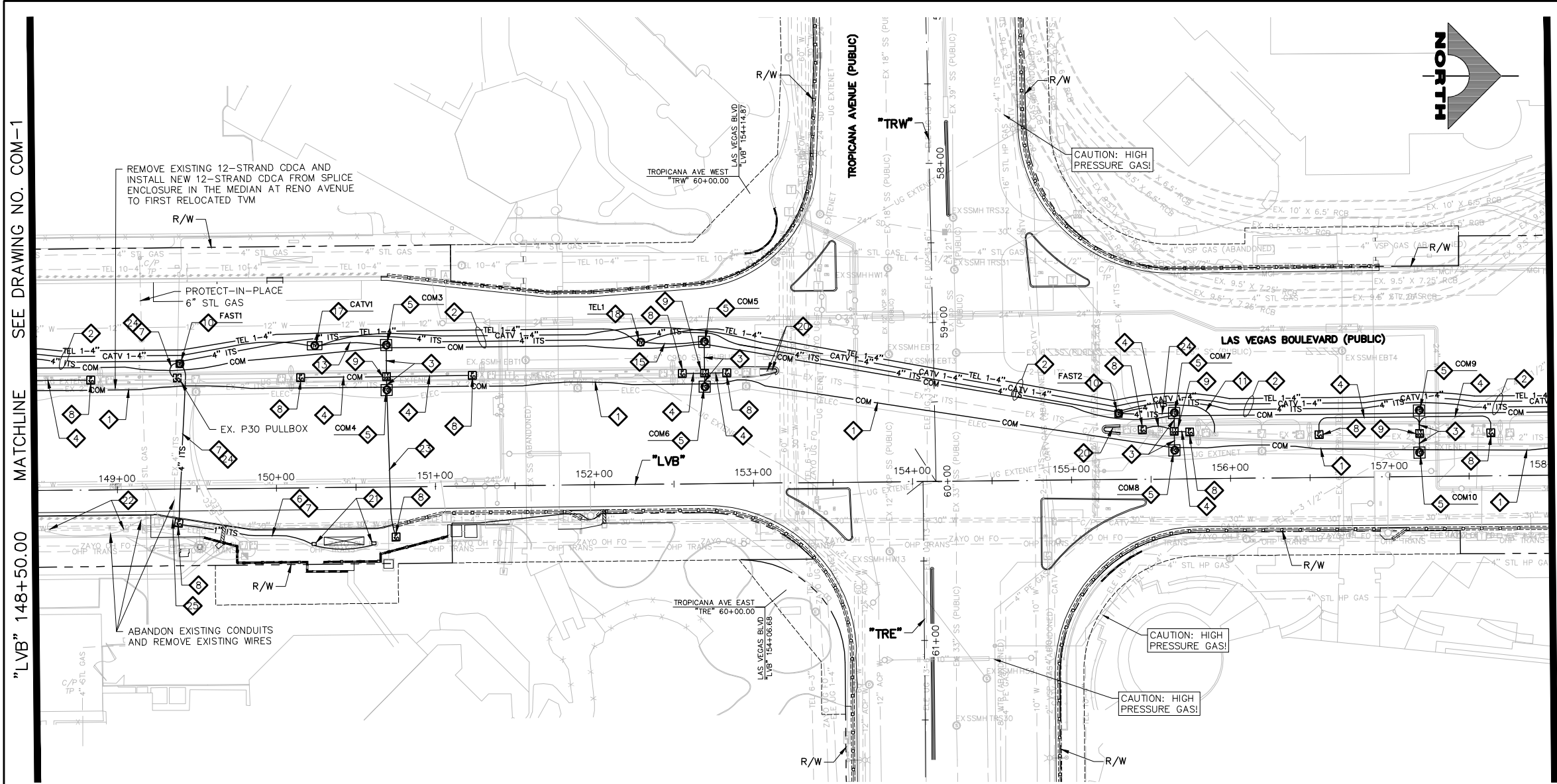
DRAWING NO. **COM-1**
SHT. 123 OF 169
L-2304

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

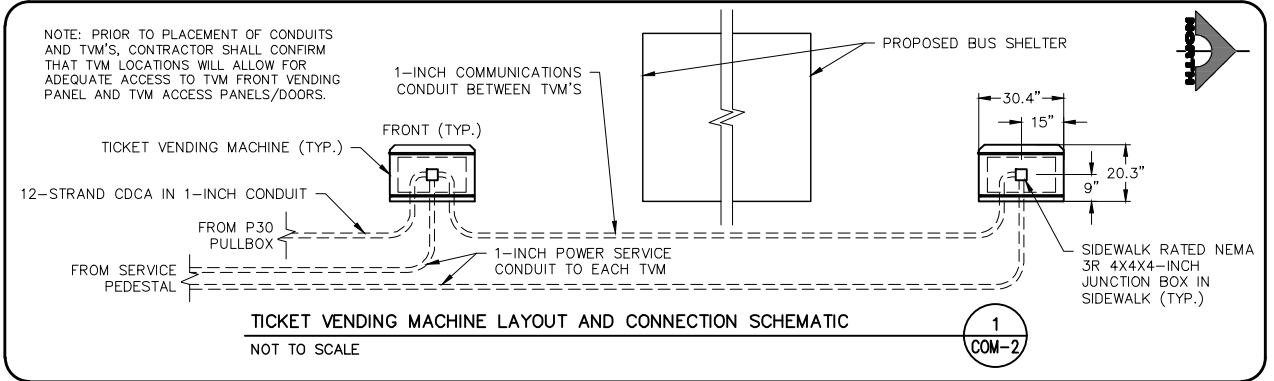
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

04-19-22 11:03:47 F:\Projects\500\500-897-LV-EF-DWG\Production\VEF_13_COM_Sheets.dwg



- ### 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 (1) 1-INCH PVC CONDUIT
 7. INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
 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 1, DRAWING CDT-3)
 12. NOT USED
 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. STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
 17. INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-7)
 18. INSTALL 4'X4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
 19. RELOCATE EXISTING PULL BOX
 20. ADJUST EXISTING PULL BOX
 21. RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
 22. REMOVE AND SALVAGE EXISTING RTC TVM (BY RTC)
 23. INSTALL (2) 4-INCH PVC CONDUIT LATERAL (PROVIDER)
 24. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (FAST)
 25. REMOVE PULLBOX
 26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- ### NOTES
1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
 2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.



WATERLINE SEPARATION NOTE

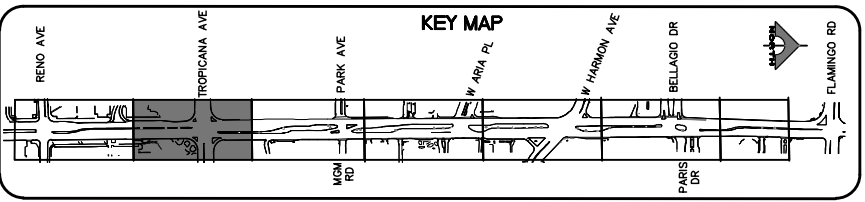
PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.



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
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
COWRD PIPES NUMBER: 21.883
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 - TROPICANA AVE TO FLAMINGO RD

COMMUNICATION PLAN

"LVB" 148+50.00 TO "LVB" 158+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY:

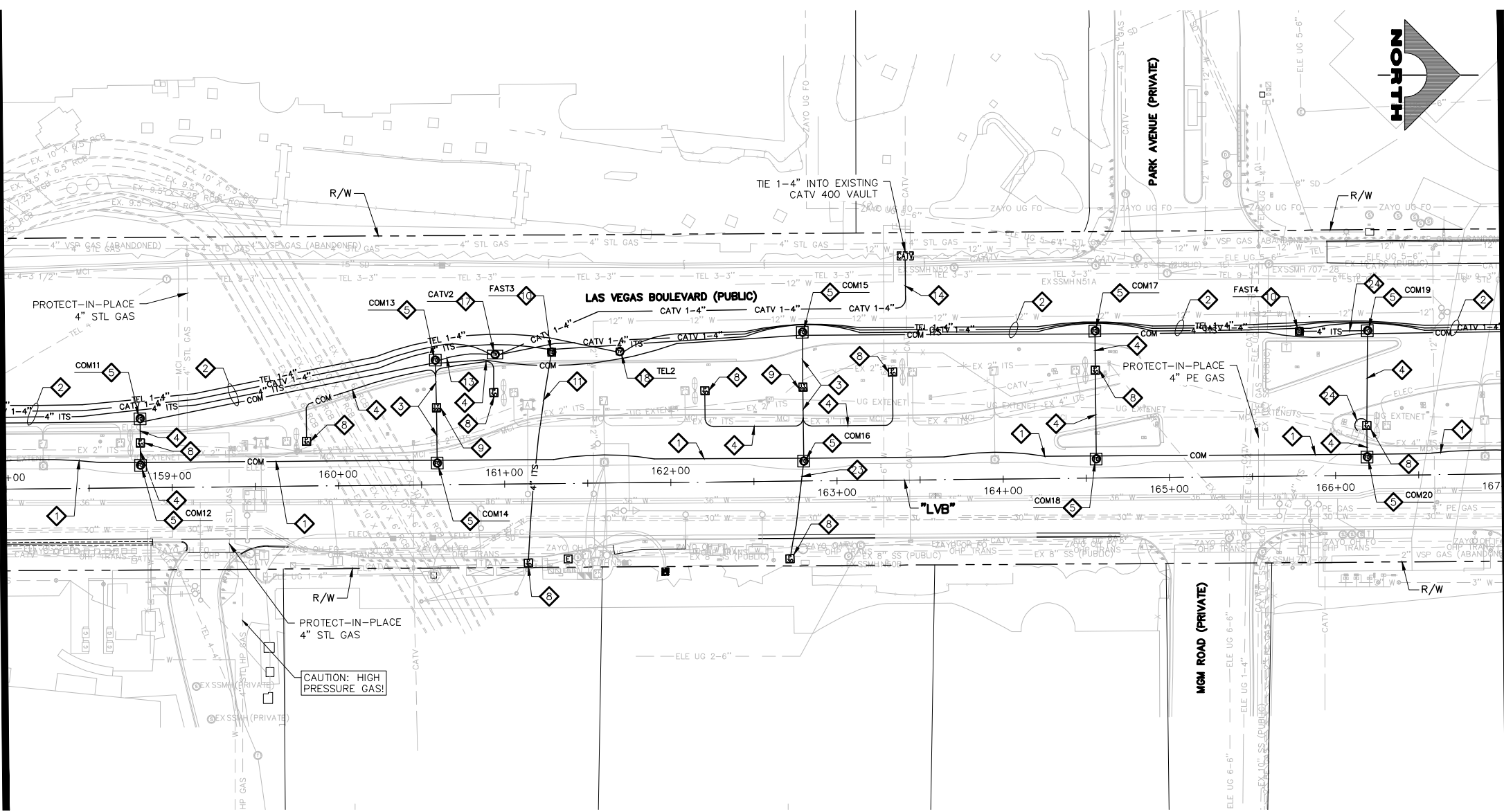
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **COM-2**
SHT. 124 OF 169
L-2304

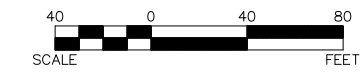
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

SEE DRAWING NO. COM-2
MATCHLINE
"LVB" 158+00.00
MATCHLINE
SEE DRAWING NO. COM-4
"LVB" 167+00.00



- ### 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 (1) 1-INCH PVC CONDUIT
 7. INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
 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 1, DRAWING CDT-3)
 12. NOT USED
 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. STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
 17. INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-7)
 18. INSTALL 4'X4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
 19. RELOCATE EXISTING PULL BOX
 20. ADJUST EXISTING PULL BOX
 21. RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
 22. REMOVE AND SALVAGE EXISTING RTC TVM (BY RTC)
 23. INSTALL (2) 4-INCH PVC CONDUIT LATERAL (PROVIDER)
 24. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (FAST)
 25. REMOVE PULLBOX
 26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- NOTES**
1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
 2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

WATERLINE SEPARATION NOTE
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.



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 14 DAYS 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.

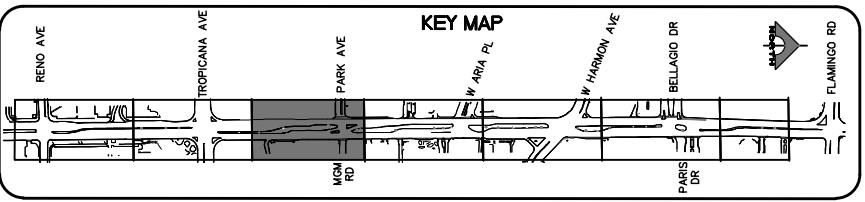
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCRWD PIPES NUMBER: 21.883

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 HITTING OVERHEAD POWER LINES. ITS COSTLY.

1-702-227-2929

FAST
 Call before you UnderGround.
 1-702-901-8400
 PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig
 Avoid cutting underground utility lines. It's costly.

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
COMMUNICATION PLAN
 "LVB" 158+00.00 TO "LVB" 167+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____

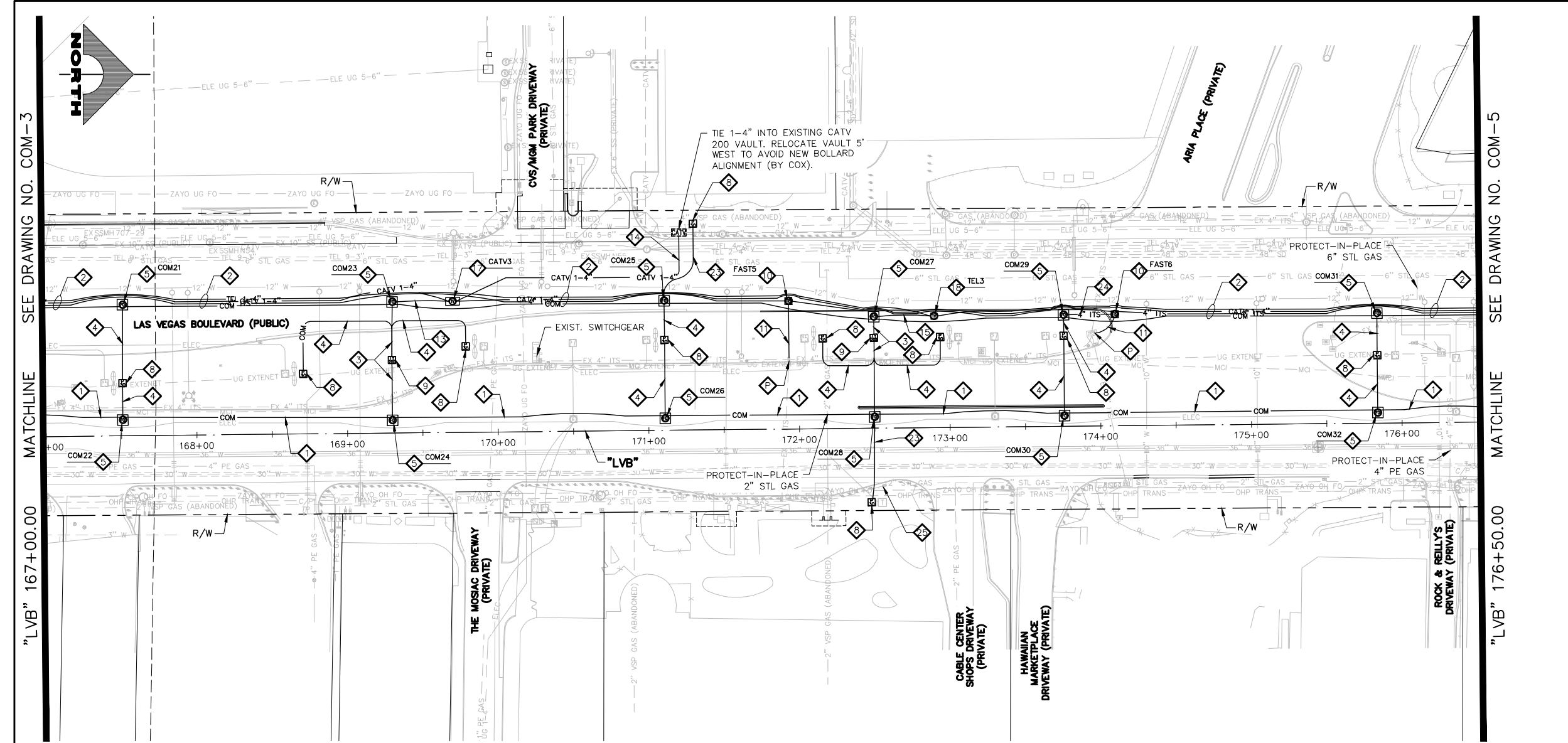
GCV
 ENGINEERS \ SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK

DRAWING NO.
COM-3
 SHT. 125 OF 169
 L-2304

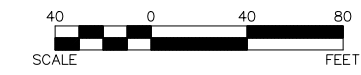
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### 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)
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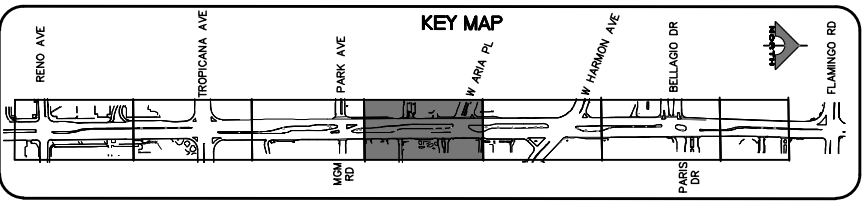
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.883

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 - TROPICANA AVE TO FLAMINGO RD
COMMUNICATION PLAN
 "LVB" 167+00.00 TO "LVB" 176+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____

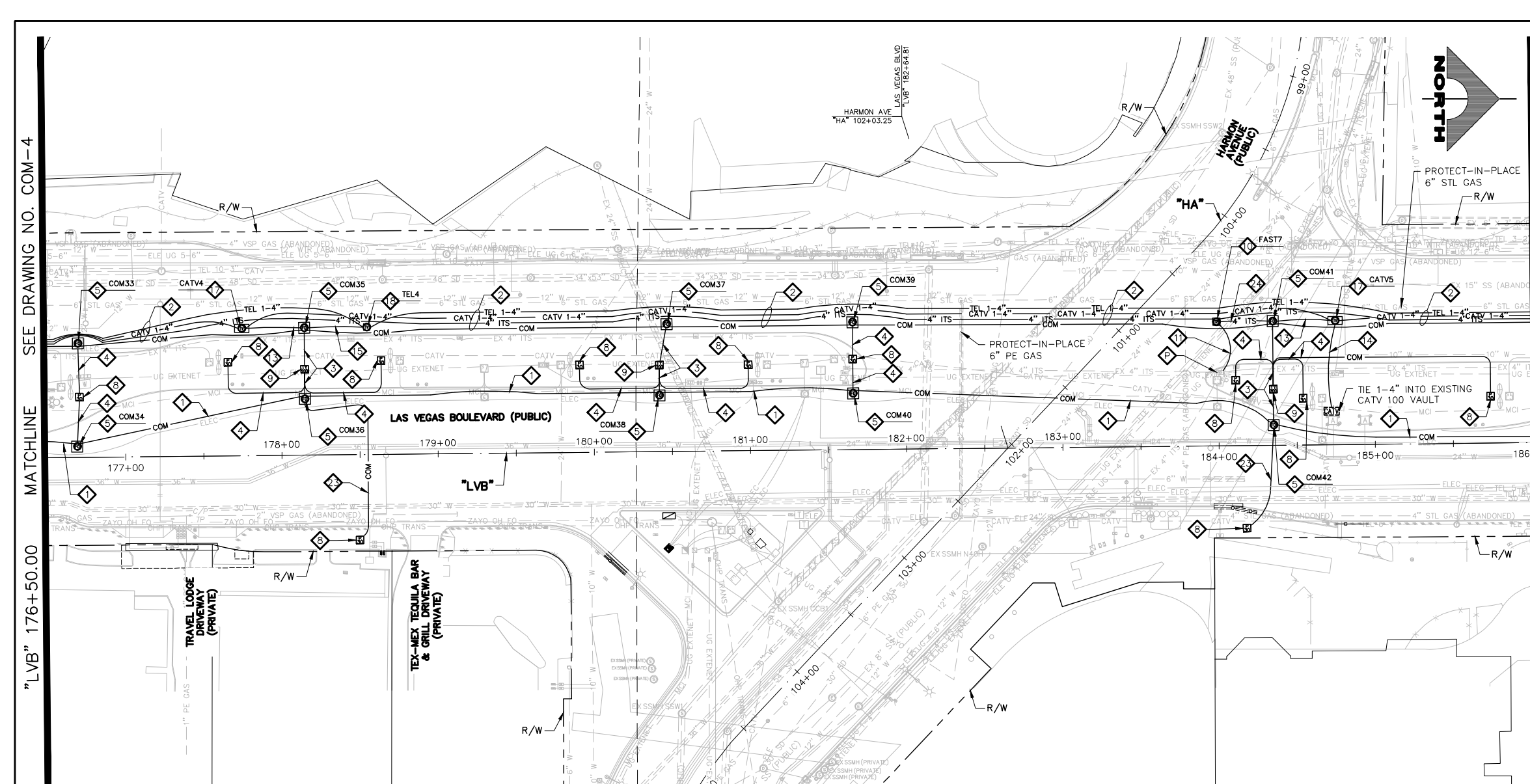
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **COM-4**
 SHT. 126 OF 169
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21



- ### COMMUNICATION NOTES
- 1 INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
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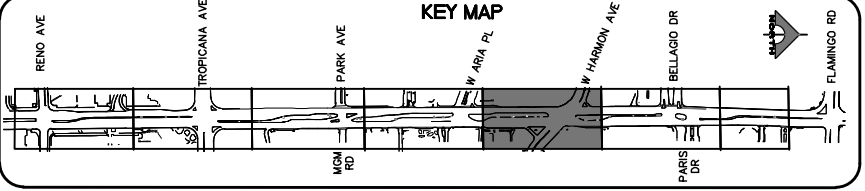
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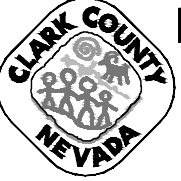
SOUTHWEST GAS VALVE NOTE
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883
 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 - TROPICANA AVE TO FLAMINGO RD
COMMUNICATION PLAN
 "LVB" 176+50.00 TO "LVB" 186+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY:

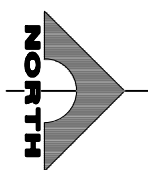
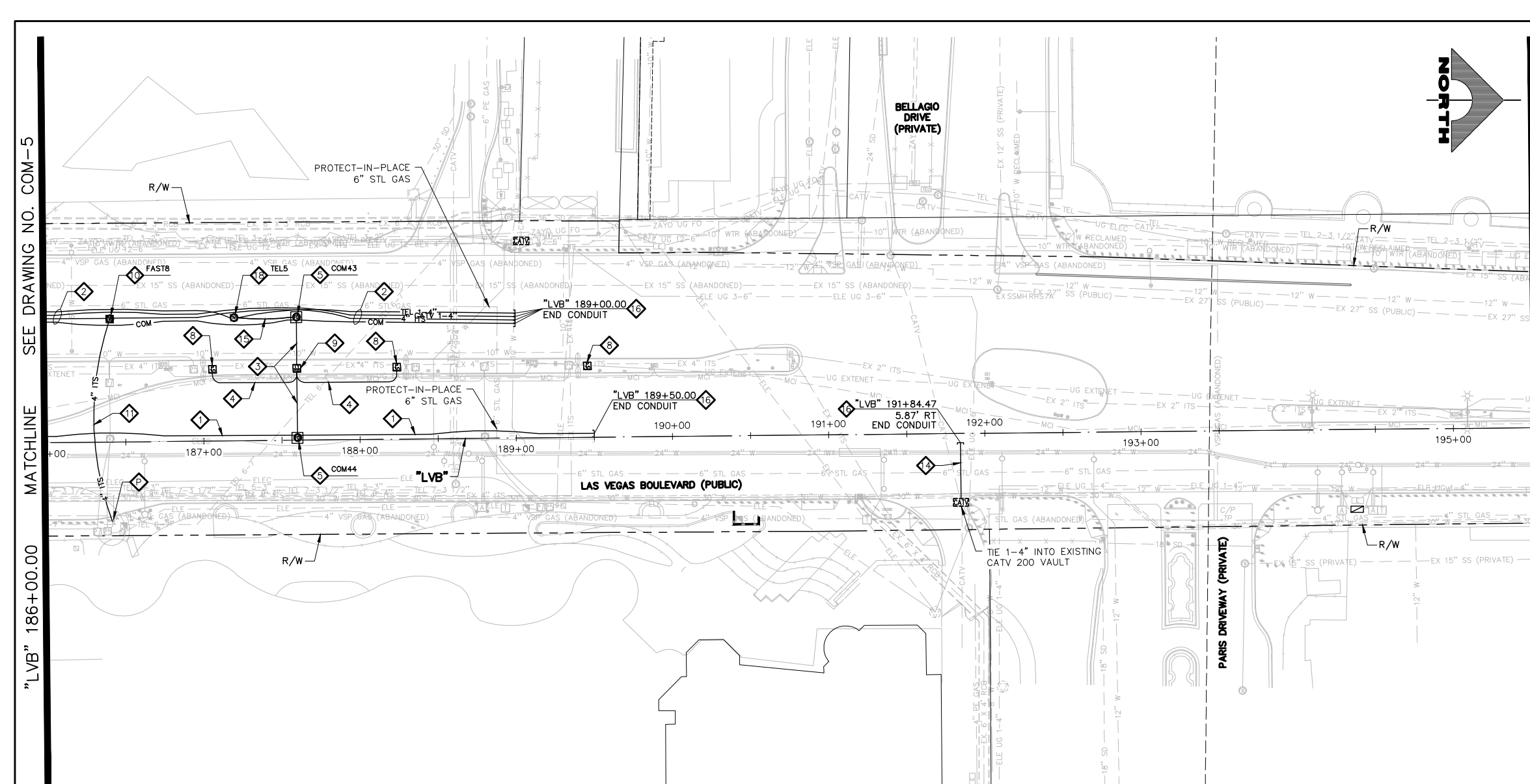
GCV
 ENGINEERS \ SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **COM-5**
 SHT. 127 OF 169
 L-2304

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 04-19-22 11:04:01

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21



- 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)
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- NOTES**
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WATERLINE SEPARATION NOTE

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SEE DRAWING NO. COM-5

"LVB" 186+00.00

SEE DRAWING NO. COM-7

"LVB" 195+50.00

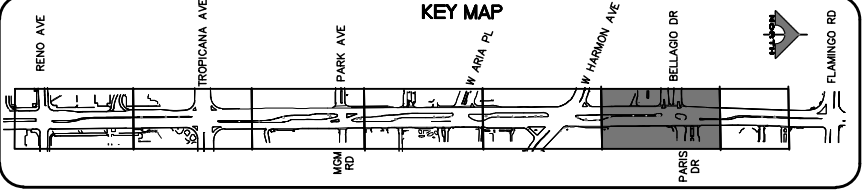
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APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21883
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 - TROPICANA AVE TO FLAMINGO RD
COMMUNICATION PLAN
"LVB" 186+00.00 TO "LVB" 195+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY:

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

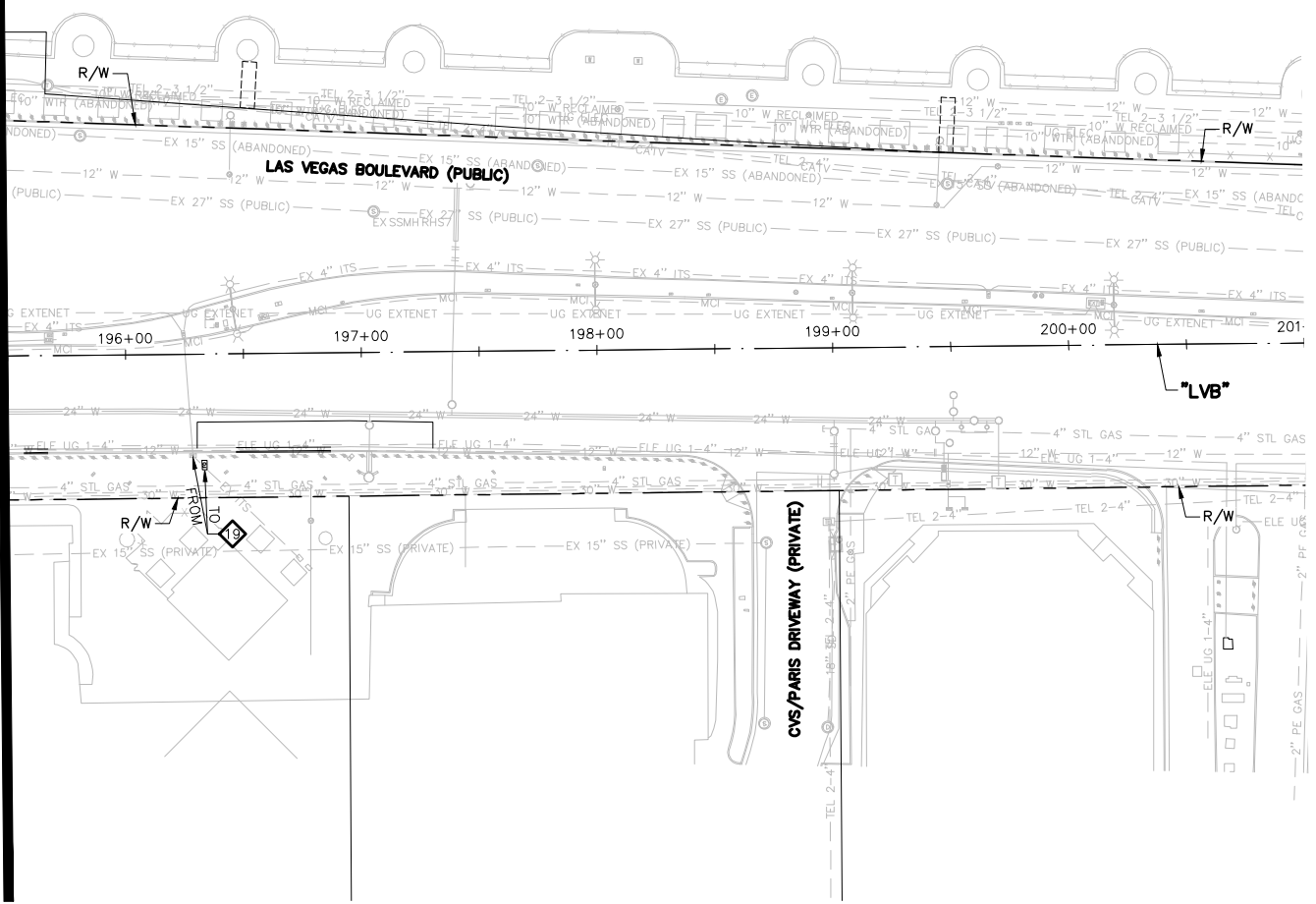
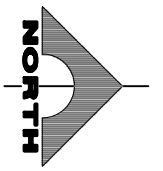
SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **COM-6**
SHT. 128 OF 169
L-2304

I:\Projects\500-897-LV-EF\DWG\Production\VEF_13_COM_Sheets.dwg 04-19-22 11:04:06

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

SEE DRAWING NO. COM-6
MATCHLINE
"LVB" 195+50.00



TRAFFIC RATED COMMUNICATION MANHOLE TABLE	
ID	STATION & OFFSET
COM1	"LVB" 148+30.00, 78.75 LT
COM2	"LVB" 148+30.00, 61.00 LT
COM3	"LVB" 150+70.00, 89.25 LT
COM4	"LVB" 150+70.00, 61.00 LT
COM5	"LVB" 152+70.00, 89.25 LT
COM6	"LVB" 152+70.00, 61.00 LT
COM7	"LVB" 155+65.00, 41.50 LT
COM8	"LVB" 155+65.00, 18.00 LT
COM9	"LVB" 157+19.00, 41.50 LT
COM10	"LVB" 157+19.00, 15.00 LT
COM11	"LVB" 158+81.00, 41.50 LT
COM12	"LVB" 158+81.00, 13.50 LT
COM13	"LVB" 160+59.00, 75.00 LT
COM14	"LVB" 160+59.50, 13.00 LT
COM15	"LVB" 162+80.00, 89.50 LT
COM16	"LVB" 162+80.00, 12.00 LT
COM17	"LVB" 164+56.00, 88.50 LT
COM18	"LVB" 164+56.00, 11.50 LT
COM19	"LVB" 166+20.00, 87.00 LT
COM20	"LVB" 166+19.00, 11.00 LT
COM21	"LVB" 167+51.50, 87.00 LT
COM22	"LVB" 167+51.00, 10.50 LT
COM23	"LVB" 169+30.50, 87.00 LT
COM24	"LVB" 169+30.00, 8.50 LT
COM25	"LVB" 171+11.00, 86.00 LT
COM26	"LVB" 171+11.00, 8.00 LT
COM27	"LVB" 172+50.00, 74.00 LT
COM28	"LVB" 172+50.00, 7.50 LT
COM29	"LVB" 173+76.00, 74.00 LT
COM30	"LVB" 173+76.00, 7.00 LT
COM31	"LVB" 175+84.00, 73.00 LT
COM32	"LVB" 175+84.00, 7.00 LT
COM33	"LVB" 176+70.00, 73.00 LT
COM34	"LVB" 176+69.00, 7.00 LT
COM35	"LVB" 178+15.00, 81.50 LT
COM36	"LVB" 178+15.00, 36.00 LT
COM37	"LVB" 180+47.00, 81.50 LT
COM38	"LVB" 180+42.00, 36.00 LT
COM39	"LVB" 181+66.00, 81.50 LT
COM40	"LVB" 181+66.00, 36.00 LT

TRAFFIC RATED COMMUNICATION MANHOLE TABLE	
ID	STATION & OFFSET
COM41	"LVB" 184+35.00, 79.50 LT
COM42	"LVB" 184+35.00, 13.00 LT
COM43	"LVB" 187+60.00, 78.75 LT
COM44	"LVB" 187+60.00, 1.50 LT

TRAFFIC RATED F.A.S.T. MANHOLE TABLE	
ID	STATION & OFFSET
FAST1	"LVB" 149+40.00, 78.75 LT
FAST2	"LVB" 155+30.00, 41.50 LT
FAST3	"LVB" 161+29.00, 79.00 LT
FAST4	"LVB" 165+79.00, 87.00 LT
FAST5	"LVB" 171+93.50, 85.00 LT
FAST6	"LVB" 174+10.00, 74.00 LT
FAST7	"LVB" 183+99.00, 79.50 LT
FAST8	"LVB" 186+40.50, 78.75 LT

TYPE 510 CATV MANHOLE TABLE	
ID	STATION & OFFSET
CATV1	"LVB" 150+25.00, 89.25 LT
CATV2	"LVB" 160+95.00, 78.00 LT
CATV3	"LVB" 169+70.50, 87.00 LT
CATV4	"LVB" 177+75.00, 81.50 LT
CATV5	"LVB" 184+75.00, 79.50 LT

VERIZON MANHOLE TABLE	
ID	STATION & OFFSET
TEL1	"LVB" 152+30.00, 89.25 LT
TEL2	"LVB" 161+70.00, 79.00 LT
TEL3	"LVB" 172+90.00, 74.00 LT
TEL4	"LVB" 178+55.00, 81.50 LT
TEL5	"LVB" 187+20.00, 78.75 LT

- ### COMMUNICATION NOTES
- INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
 - INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
 - INSTALL PRIMARY COMMUNICATION LATERAL (SEE DETAIL 2, DRAWING CDT-2)
 - INSTALL SECONDARY COMMUNICATION LATERAL (SEE DETAIL 3, DRAWING CDT-2)
 - INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE (SEE DRAWING CDT-4)
 - INSTALL (1) 1-INCH PVC CONDUIT
 - INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
 - INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761)
 - INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762)
 - INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5)
 - INSTALL COUNTY/F.A.S.T. LATERAL (SEE DETAIL 1, DRAWING CDT-3)
 - NOT USED
 - INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX)
 - INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX)
 - INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON)
 - STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
 - INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-7)
 - INSTALL 4'X4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
 - RELOCATE EXISTING PULL BOX
 - ADJUST EXISTING PULL BOX
 - RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
 - REMOVE AND SALVAGE EXISTING RTC TVM (BY RTC)
 - INSTALL (2) 4-INCH PVC CONDUIT LATERAL (PROVIDER)
 - INSTALL (1) 4-INCH PVC CONDUIT LATERAL (FAST)
 - REMOVE PULLBOX
 - PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- NOTES**
- SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
 - ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

WATERLINE SEPARATION NOTE
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.



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 14 DAYS 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.

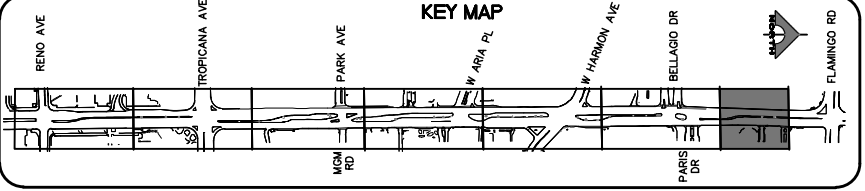
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

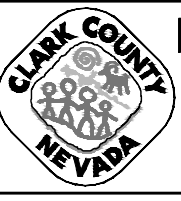
CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 COWRD PIPES NUMBER: 21.883

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 - TROPICANA AVE TO FLAMINGO RD
COMMUNICATION PLAN
 "LVB" 195+50.00 TO "LVB" 201+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____

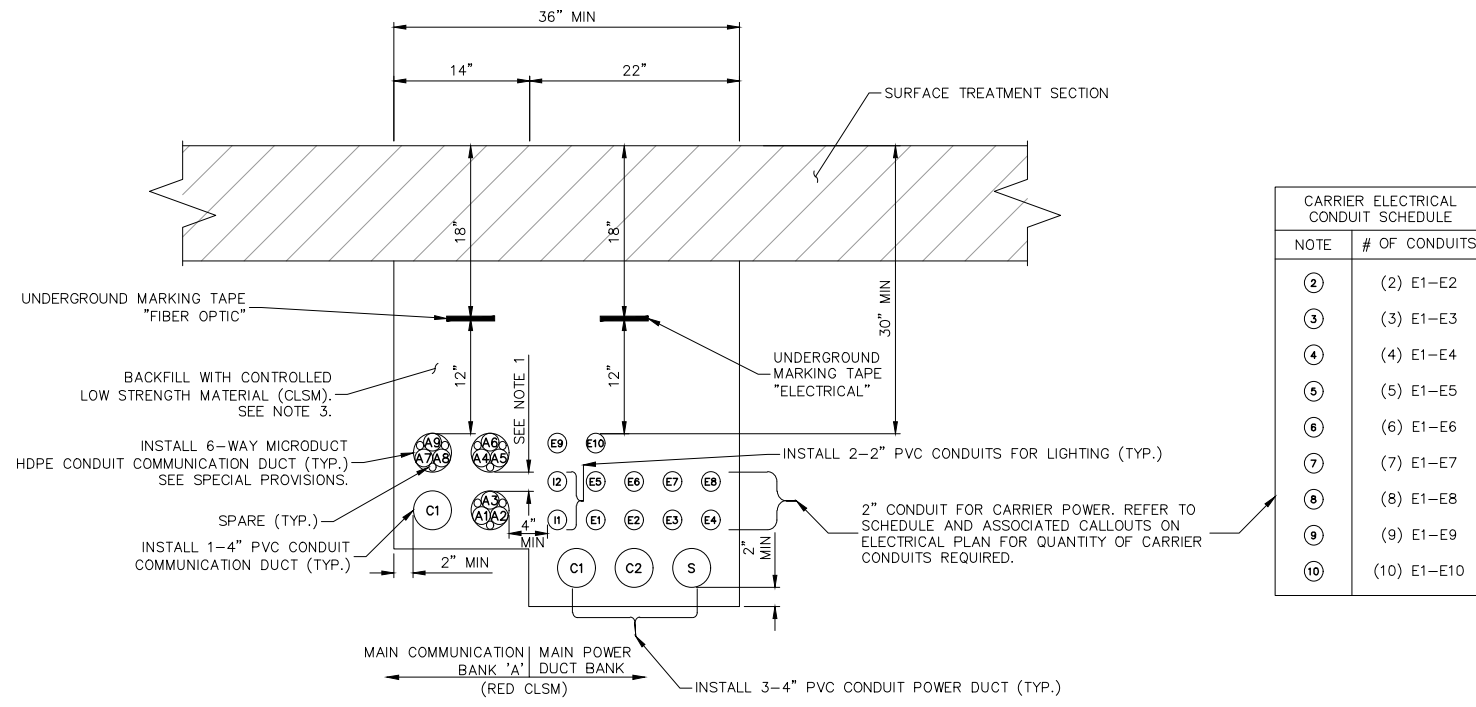
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **COM-7**
 SHT. 129 OF 169
 L-2304

I:\Projects\500-897-LV-EF\DWG\Production\VEF_13_COM_Sheets.dwg 04-19-22 11:04:12

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

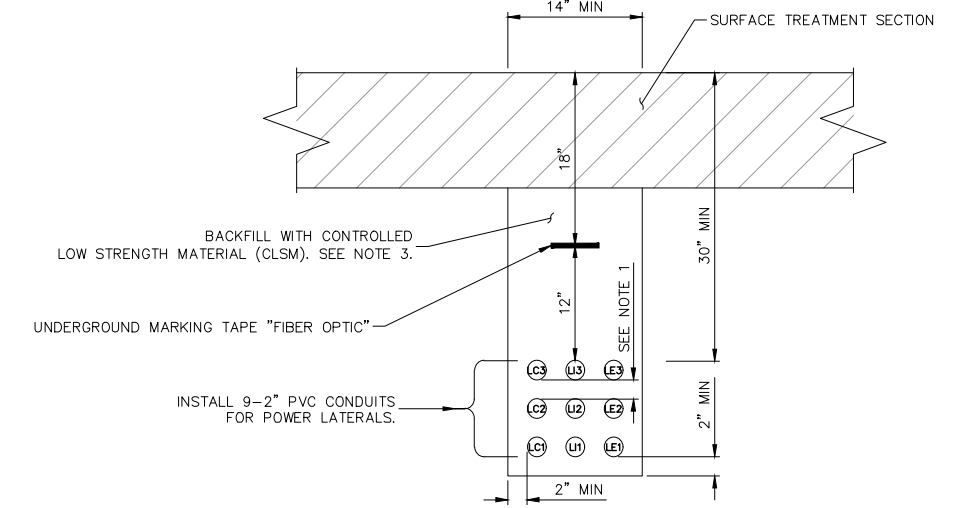


CARRIER ELECTRICAL CONDUIT SCHEDULE	
NOTE	# OF CONDUITS
②	(2) E1-E2
③	(3) E1-E3
④	(4) E1-E4
⑤	(5) E1-E5
⑥	(6) E1-E6
⑦	(7) E1-E7
⑧	(8) E1-E8
⑨	(9) E1-E9
⑩	(10) E1-E10

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

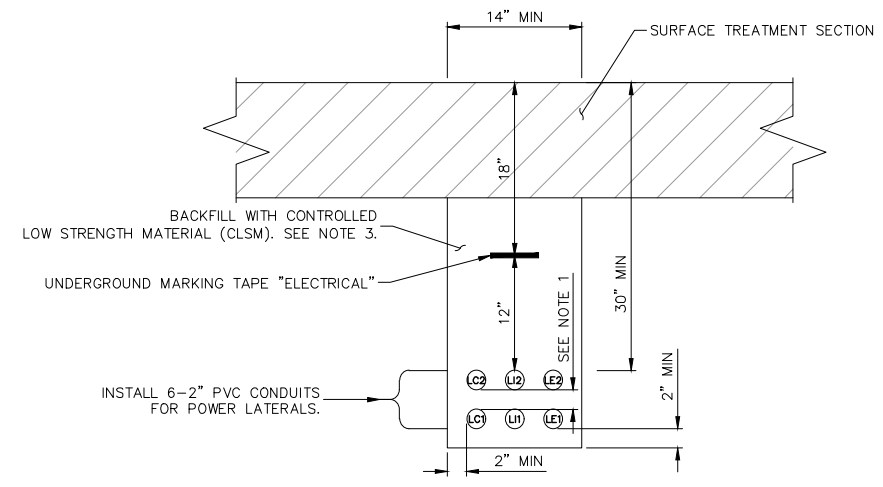
MAIN COMMUNICATION BANK 'A' & MAIN POWER DUCT BANK OPEN TRENCH INSTALLATION
NOT TO SCALE

1
CDT-1



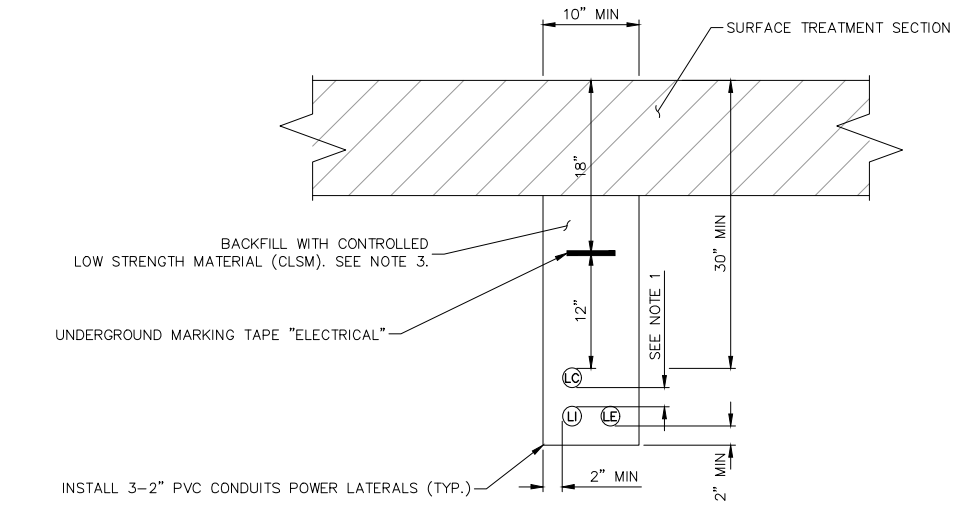
PRIMARY POWER SERVICE LATERAL 'A' OPEN TRENCH INSTALLATION
NOT TO SCALE

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

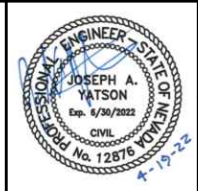
OPEN TRENCH DETAIL NOTES:
 1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.
 2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
 3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) 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, LI = LIGHTING LATERAL, LC = COUNTY LATERAL, LE = CARRIER LATERAL

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REV. NO.	DATE	DESCRIPTION	APPROVED



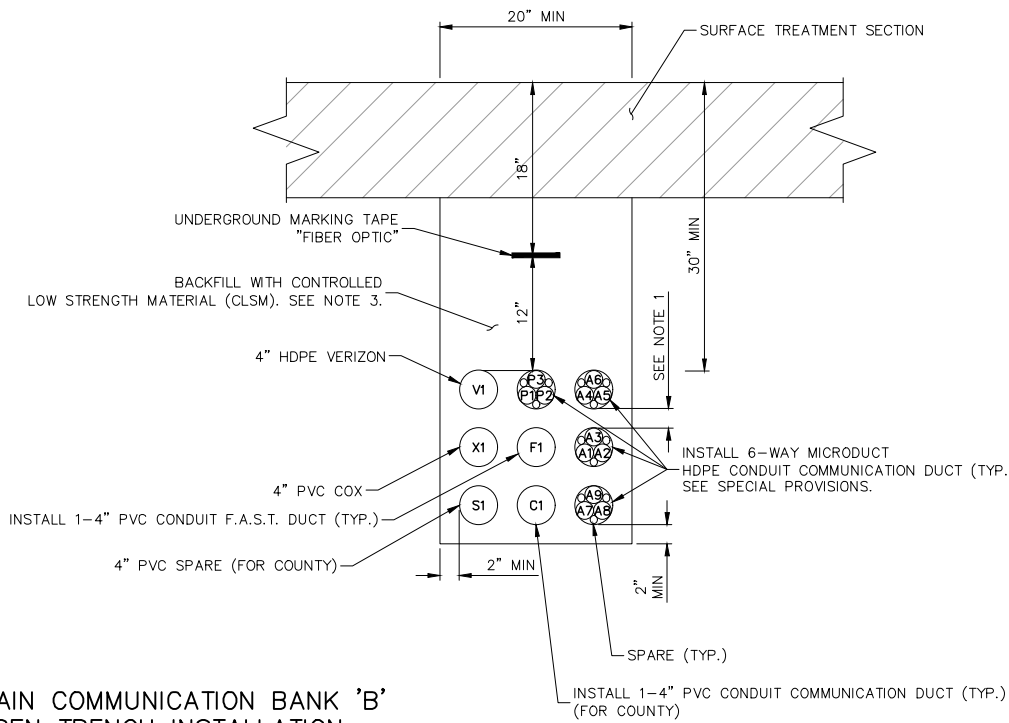
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
OPEN TRENCH INSTALLATION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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-1
VERT: NONE	SHT. 130 OF 169
FIELD BOOK	L-2304

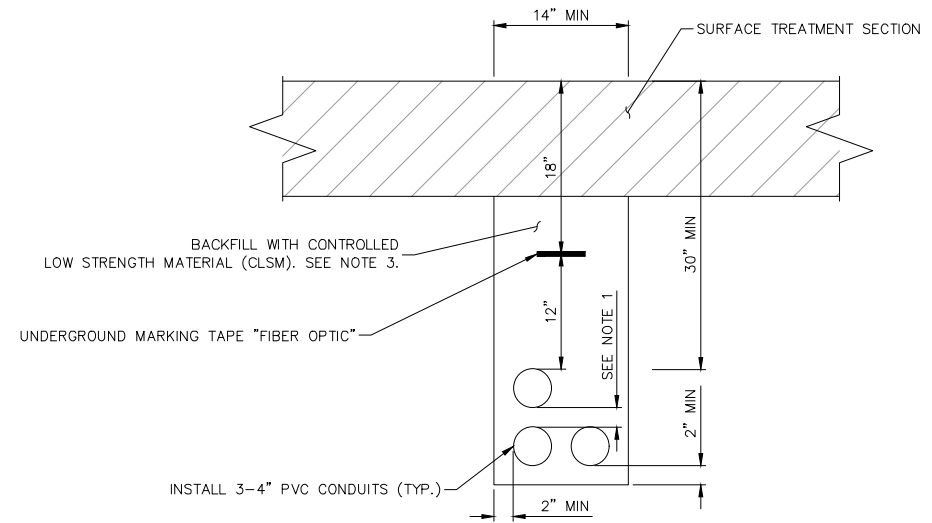
BID NO.: 605978-21



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/FAST
P2	GREY	GREEN	COUNTY/FAST
P3	GREY	ORANGE	COUNTY/FAST

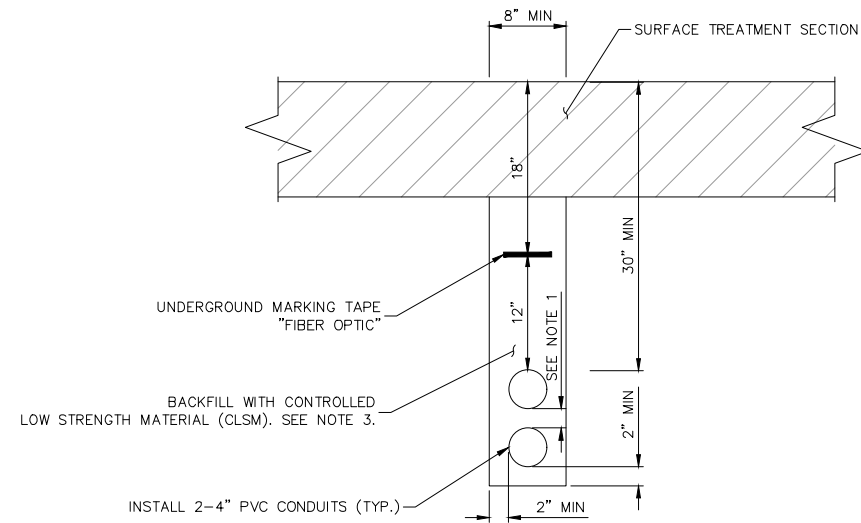
**MAIN COMMUNICATION BANK 'B'
OPEN TRENCH INSTALLATION**
NOT TO SCALE

1
CDT-2



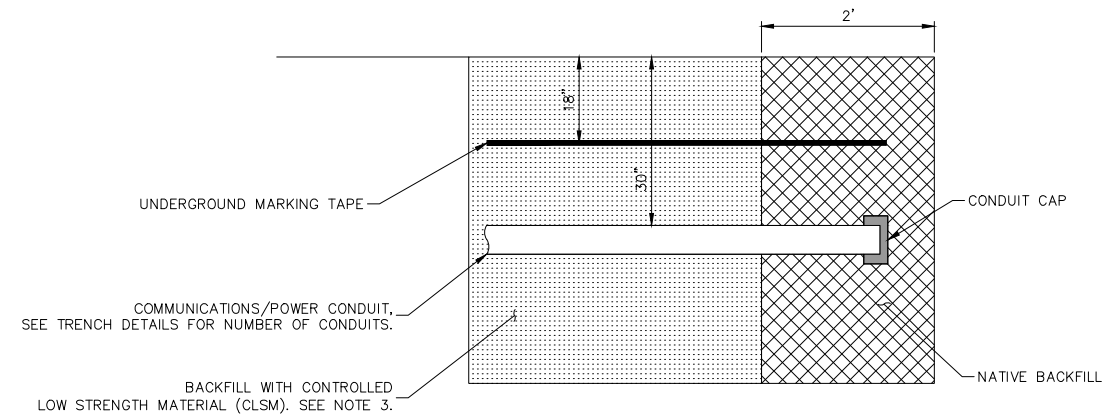
**PRIMARY COMMUNICATIONS LATERAL
OPEN TRENCH INSTALLATION**
NOT TO SCALE

2
CDT-2



**SECONDARY COMMUNICATION LATERAL
OPEN TRENCH INSTALLATION**
NOT TO SCALE

3
CDT-2



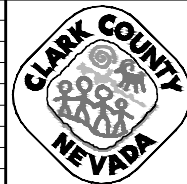
CONDUIT TRENCH WITH CAP INSTALLATION
NOT TO SCALE

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.

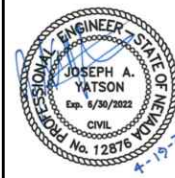
A = CARRIER, C = COUNTY, F = F.A.S.T., S = SPARE, P = PROVIDER, I = LIGHTING, X = COX, V = VERIZON

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

OPEN TRENCH INSTALLATION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

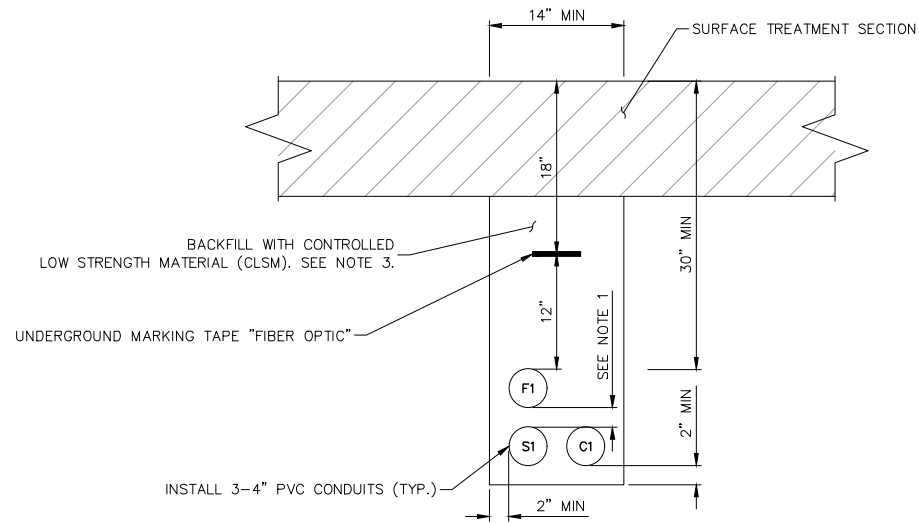


PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: JAY
APPROVED BY: _____
GCV ENGINEERS SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-2
VERT: NONE	SHT. 131 OF 169
FIELD BOOK	L-2304

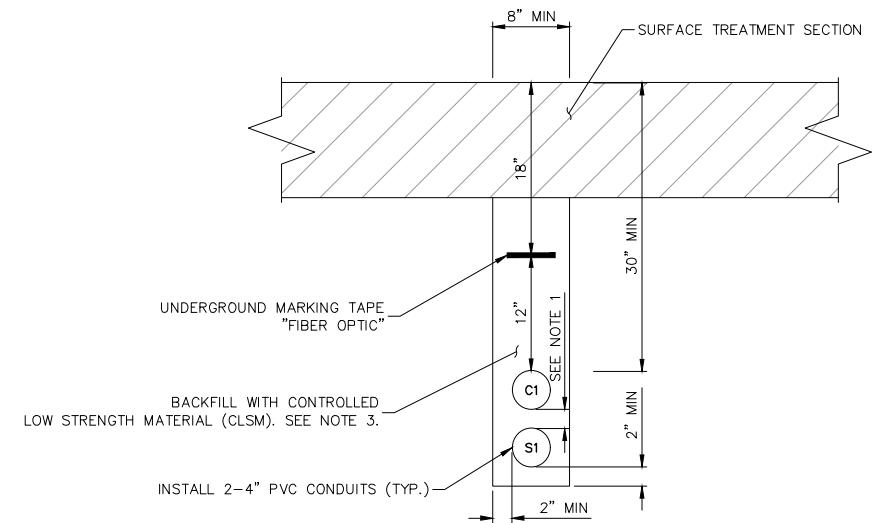
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



COUNTY/FAST LATERAL
OPEN TRENCH INSTALLATION
NOT TO SCALE

1
CDT-3



COUNTY DUCT BANK
OPEN TRENCH INSTALLATION
NOT TO SCALE

2
CDT-3

OPEN TRENCH DETAIL NOTES:

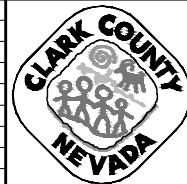
1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.
2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE
3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT 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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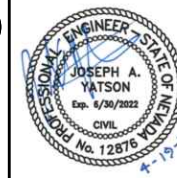
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

OPEN TRENCH INSTALLATION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



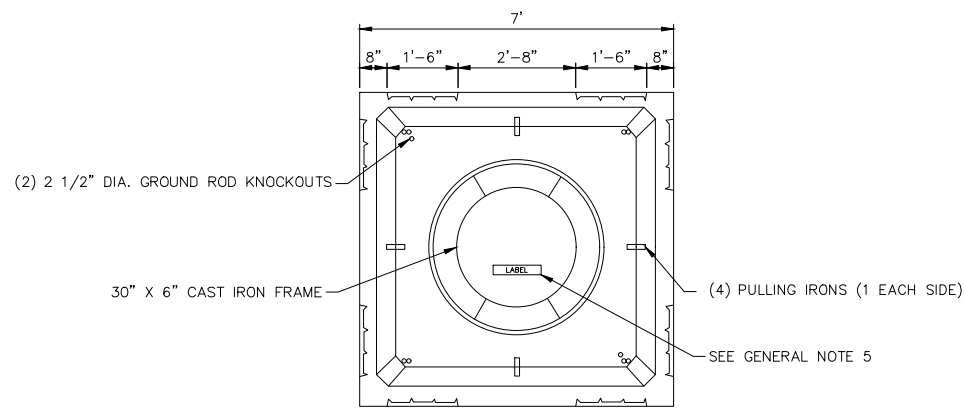
PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: JAY
 APPROVED BY: _____

GCV
 ENGINEERS SURVEYORS

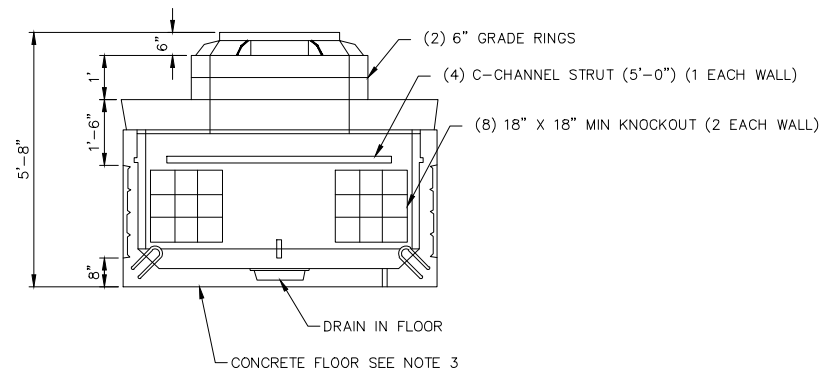
1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
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 F: 702.804.2299
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-3
VERT: NONE	SHT. 132 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

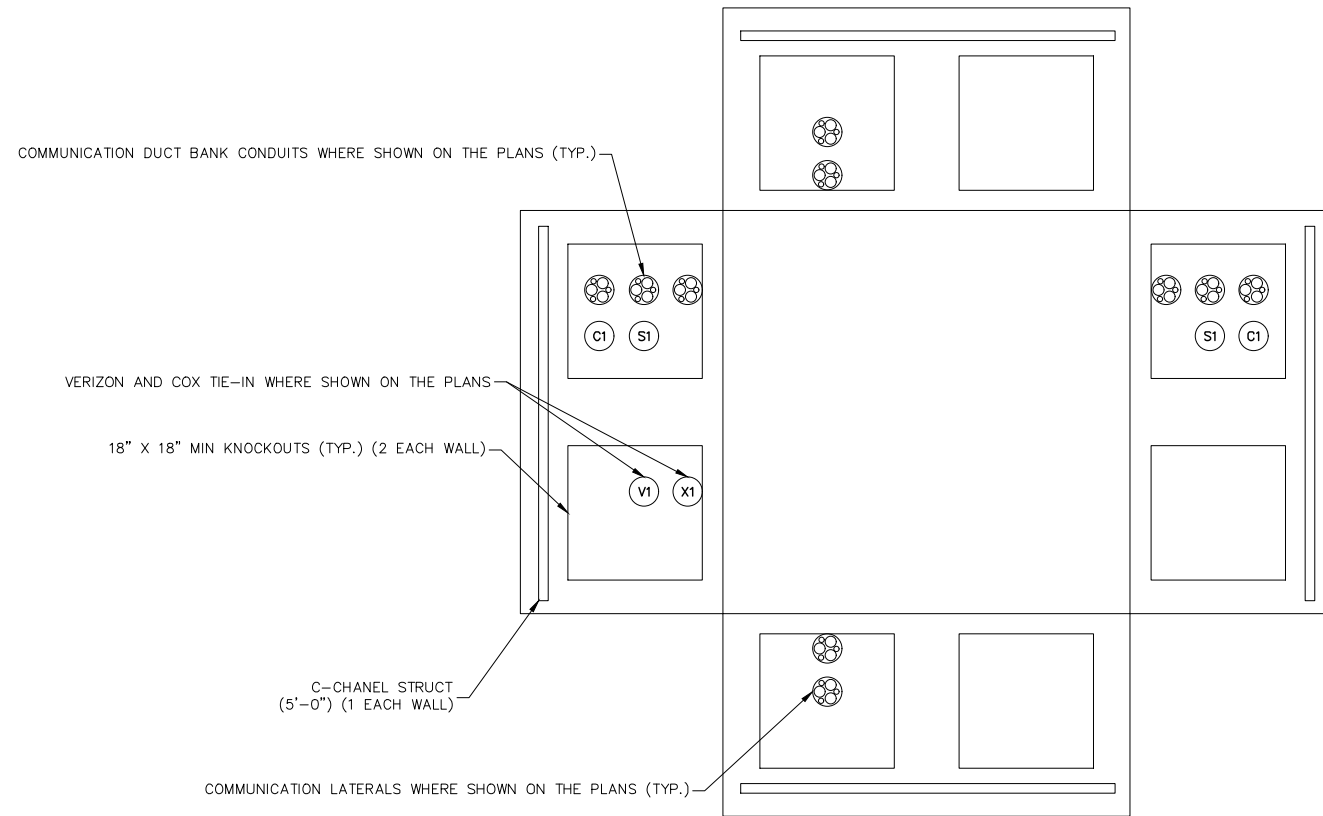


PLAN VIEW



SIDE VIEW

6' X 6' COMMUNICATION MANHOLE



COMMUNICATION MANHOLE DETAIL

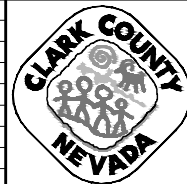
GENERAL NOTES:

- 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.

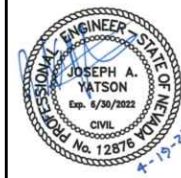
STRUCTURAL NOTES:

- 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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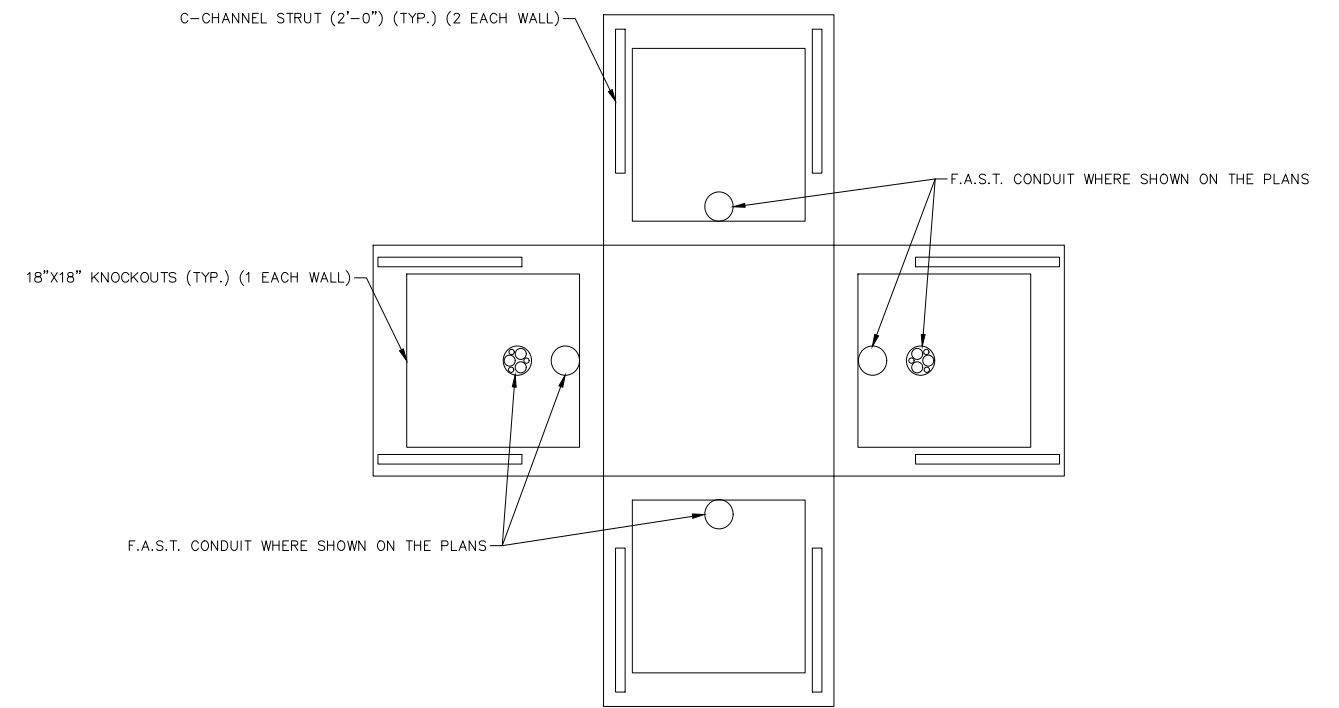
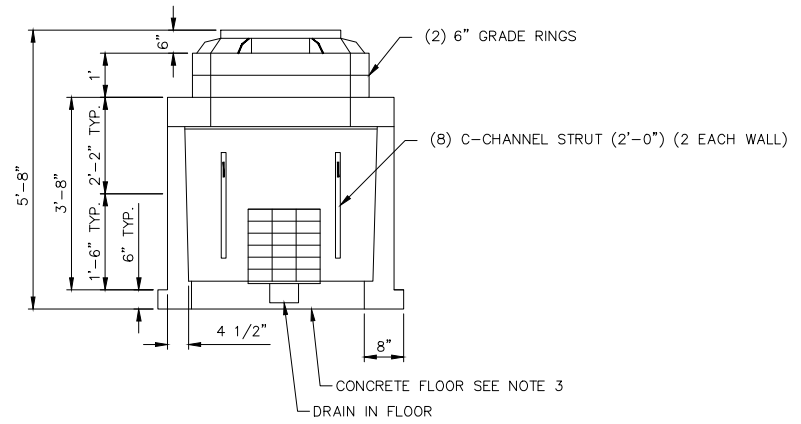
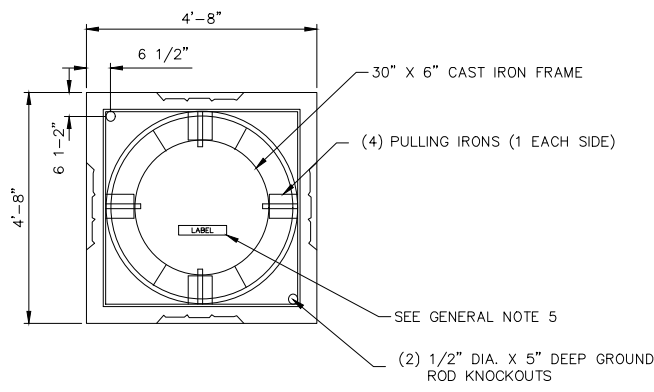
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
6'X6' COMMUNICATION MANHOLE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



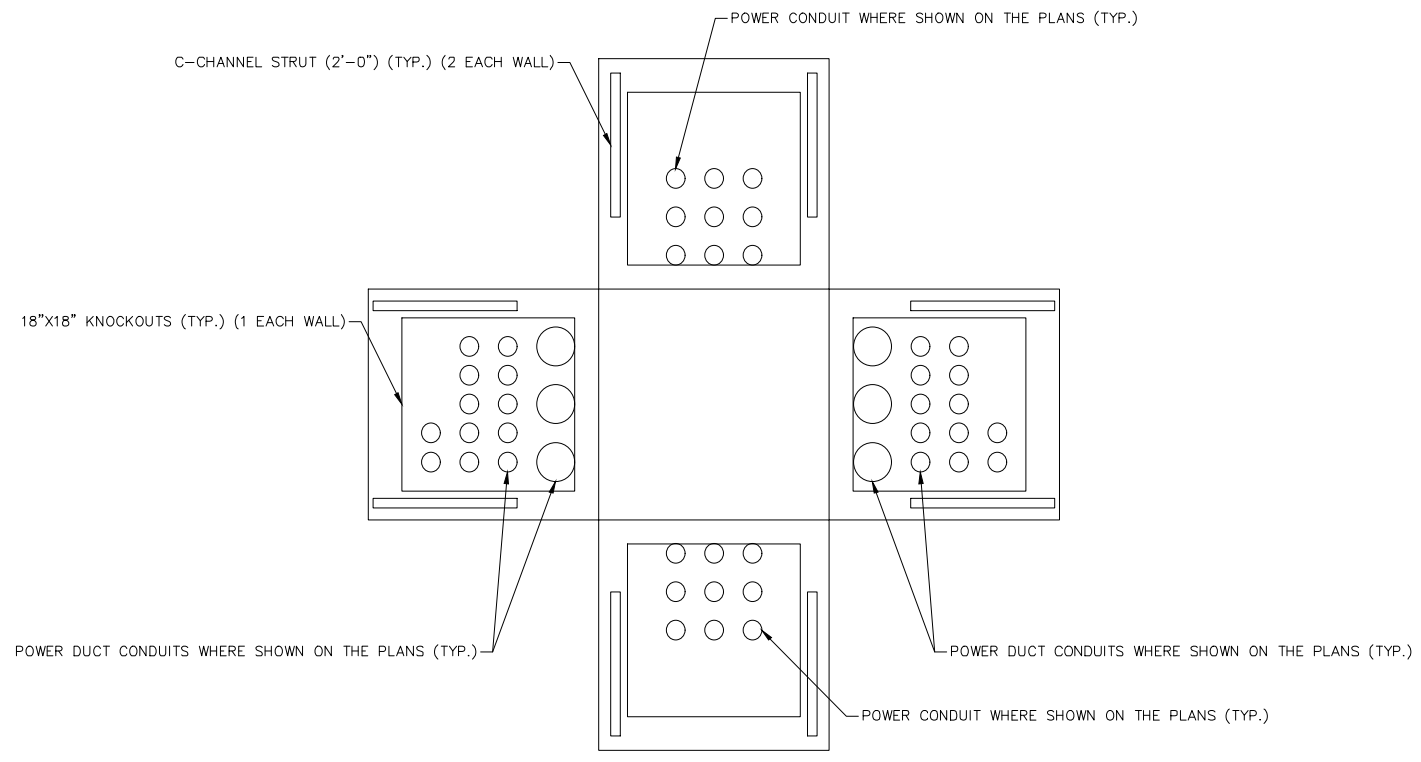
PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: JAY
APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-4
VERT: NONE	SHT. 133 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



F.A.S.T. MANHOLE DETAIL



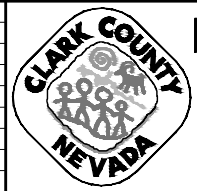
POWER MANHOLE DETAIL

- 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
60 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
 6. SOIL COVER: 0' TO 5' (MAX)

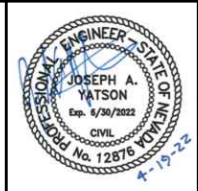
- GENERAL NOTES:**
1. ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE.
 2. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL.
 3. CONTRACTOR SHALL POUR THE CONCRETE FLOOR, WITH DRAIN, AFTER THE VAULT IS INSTALLED.
 4. THE CONTRACTOR SHALL GROUT THE KNOCKOUT AREAS, AROUND THE CONDUIT, WITH 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

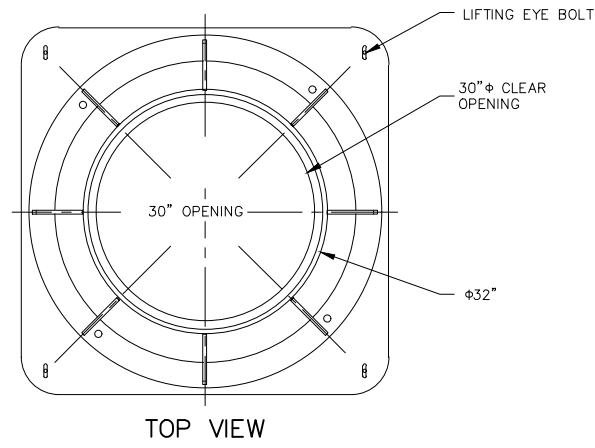


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
4'X4' F.A.S.T. MAHOLE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

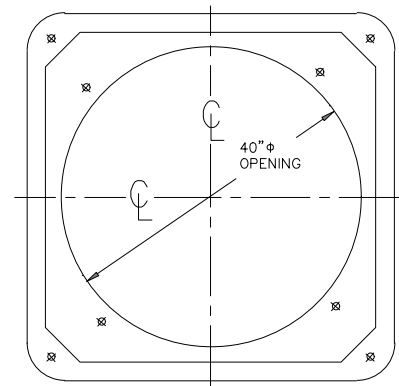


PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: JAY
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

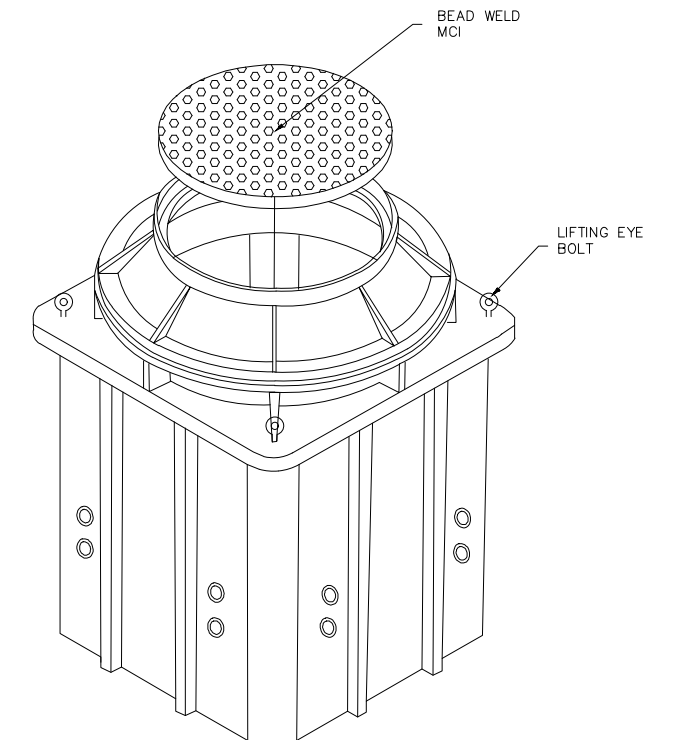
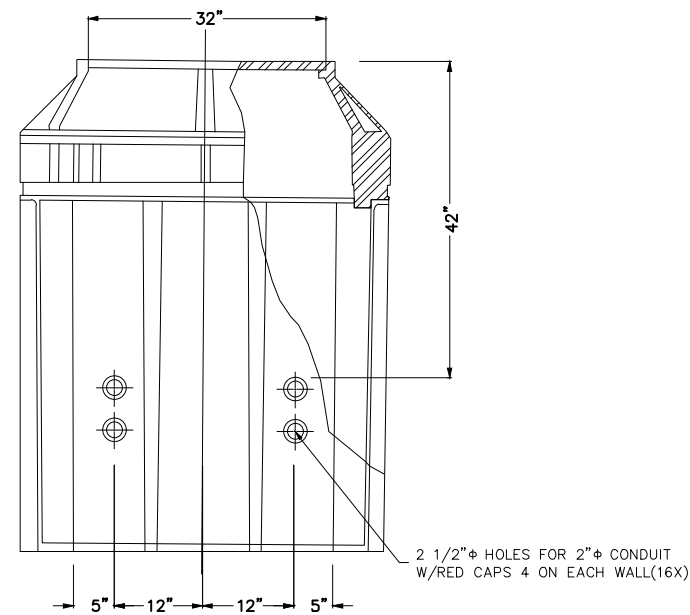
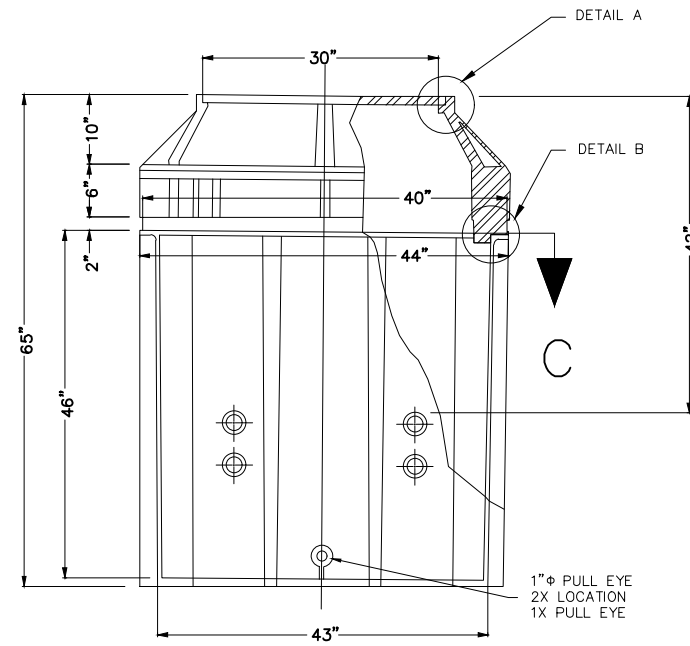
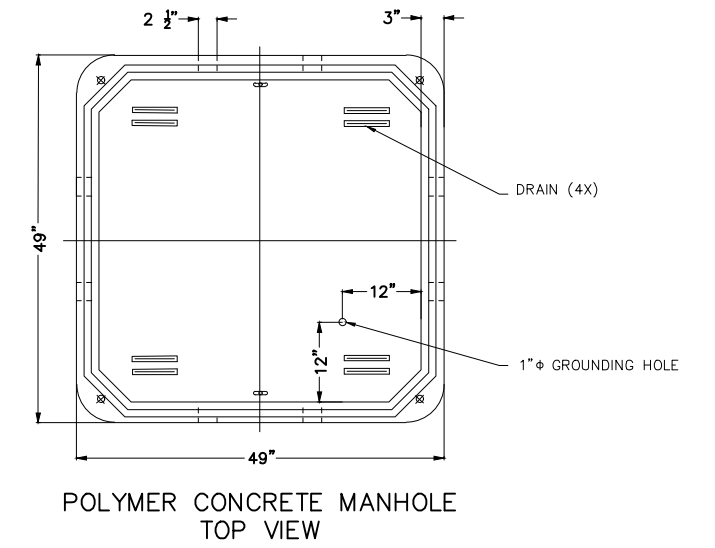
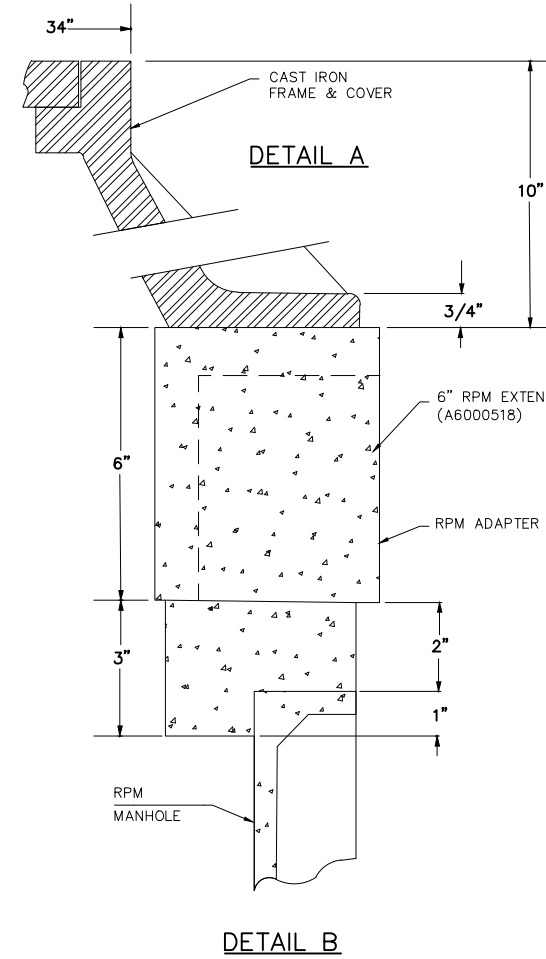
SCALE	DRAWING NO.
HORIZ: NONE	CDT-5
VERT: NONE	SHT. 134 OF 169
FIELD BOOK	L-2304



TOP VIEW



POLYMER CONCRETE ADAPTER
SECTION C-C



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04-19-22 11:04:27

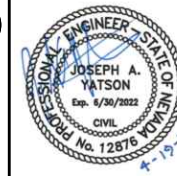
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

4'X4'X4' VERIZON MANHOLE DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



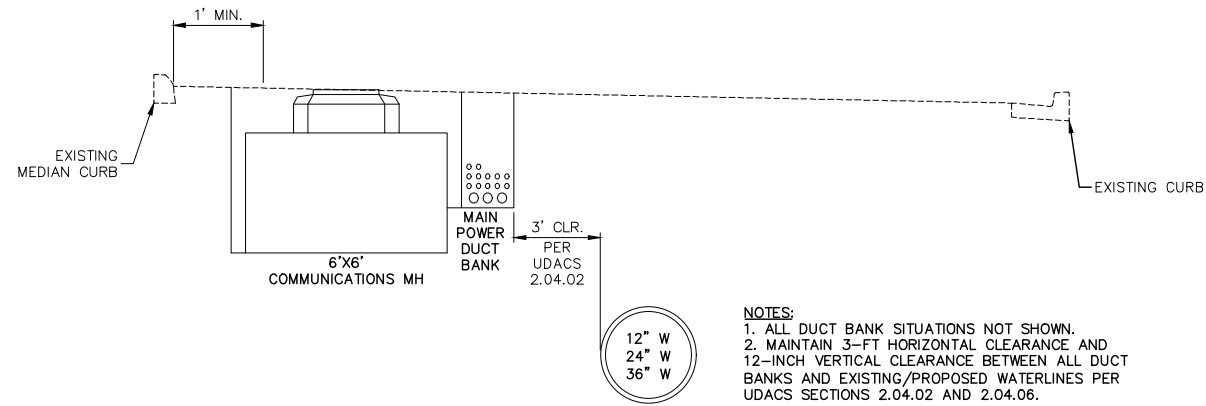
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DESIGNED BY: JAY CHECKED BY: JAY
APPROVED BY: _____

GCV
ENGINEERS SURVEYORS

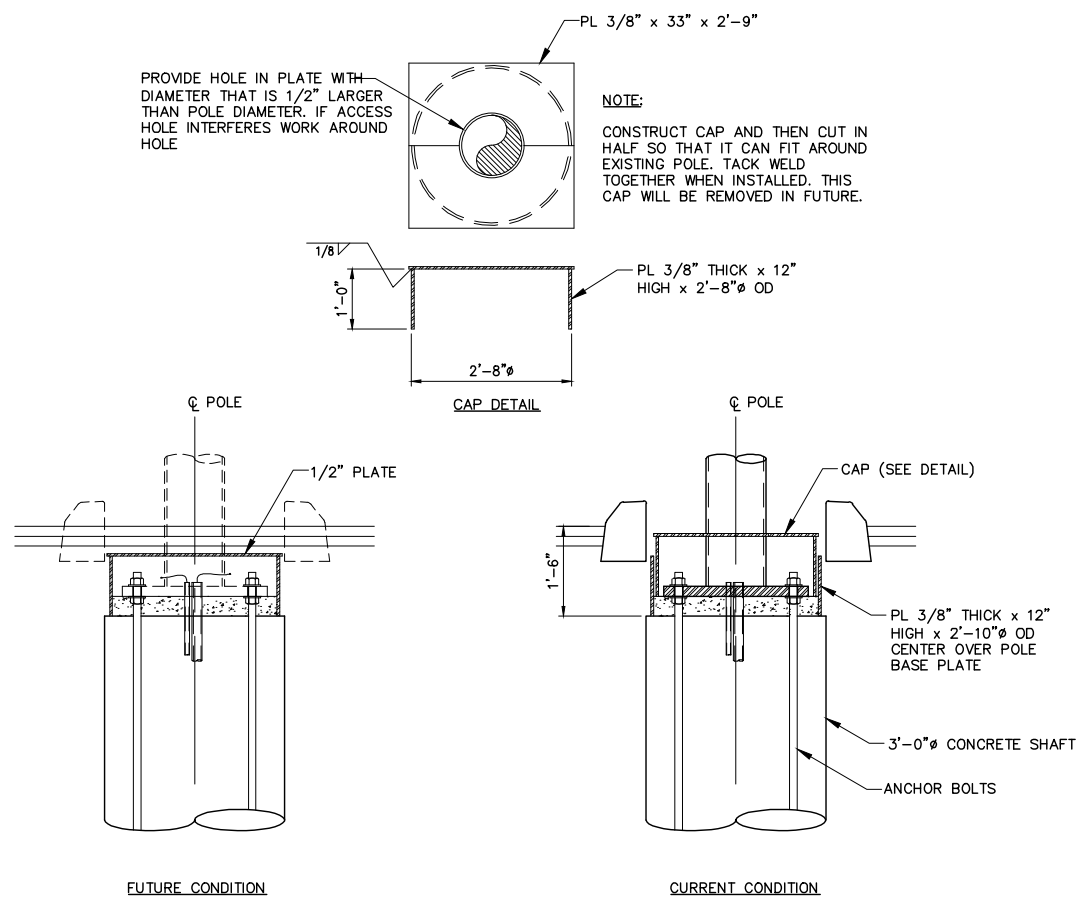
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LAS VEGAS, NV 89146
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F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	CDT-6
VERT: NONE	SHT. 135 OF 169
FIELD BOOK	L-2304

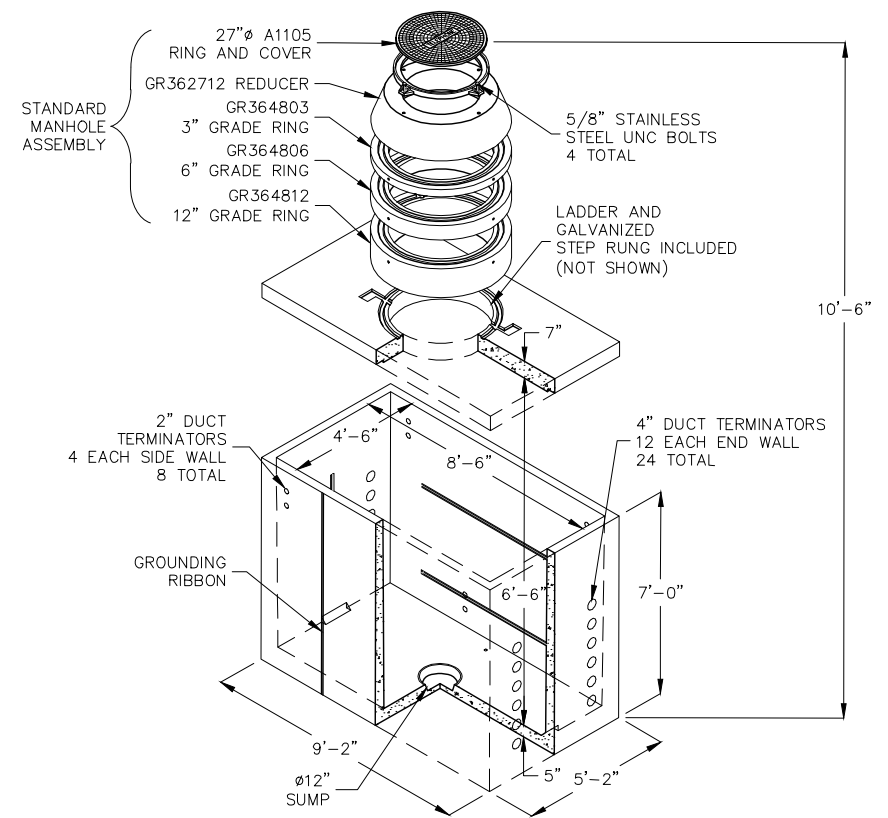
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
BID NO.: 605978-21



2 WATERLINE SEPARATION DETAIL
 CDT-7 SCALE: NTS



3 SMART POLE MANHOLE DETAIL
 CDT-7 SCALE: NTS

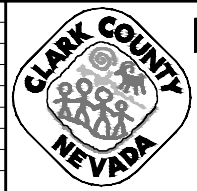


DESIGN LOAD: H-20 TRAFFIC WITH 13 INCHES TO 3 FEET SOIL COVER TO TOP OF COVER SLAB. WATER TABLE BELOW BASE OF VAULT.
 ALL FEATURES PER CURRENT CENTURYLINK SPECIFICATIONS. CABLE RACKING PROVIDED WITH EACH MANHOLE FOR FIELD INSTALLATION.
 FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

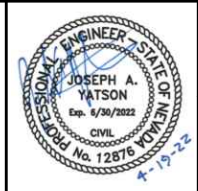
1 TYPE 510 CATV MANHOLE DETAIL
 CDT-7 SCALE: NTS

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
 COX/MISC. DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

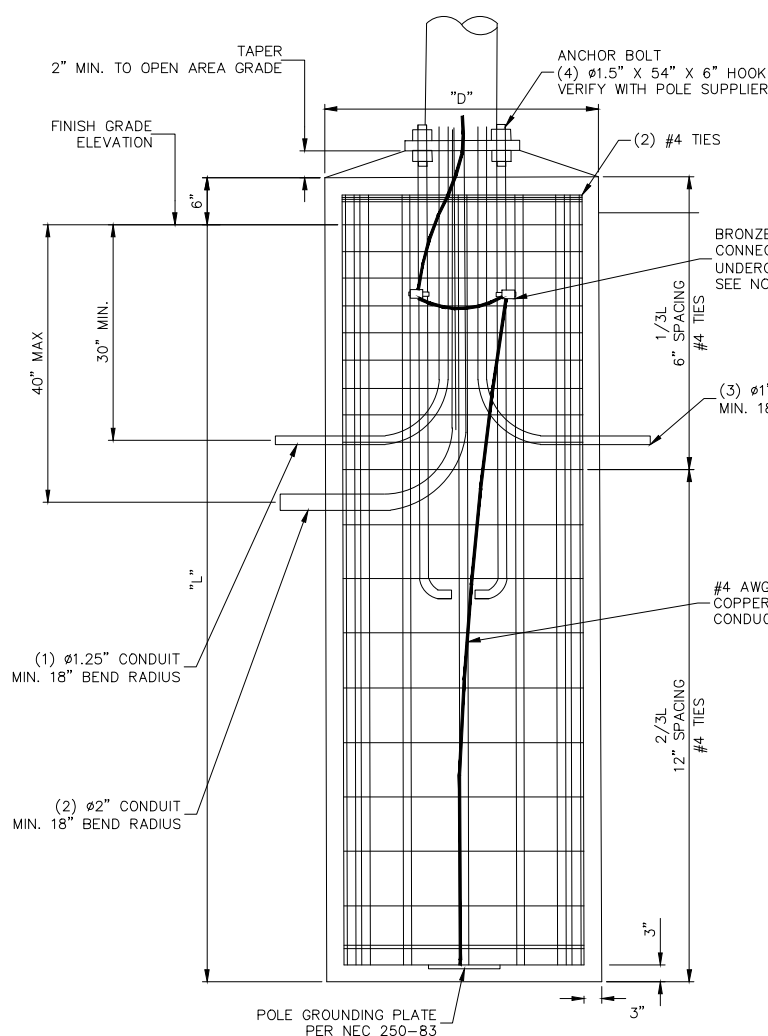


PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: JAY
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
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 F: 702.804.2299
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SCALE	DRAWING NO.
HORIZ: NONE	CDT-7
VERT: NONE	SHT. 136 OF 169
FIELD BOOK	L-2304

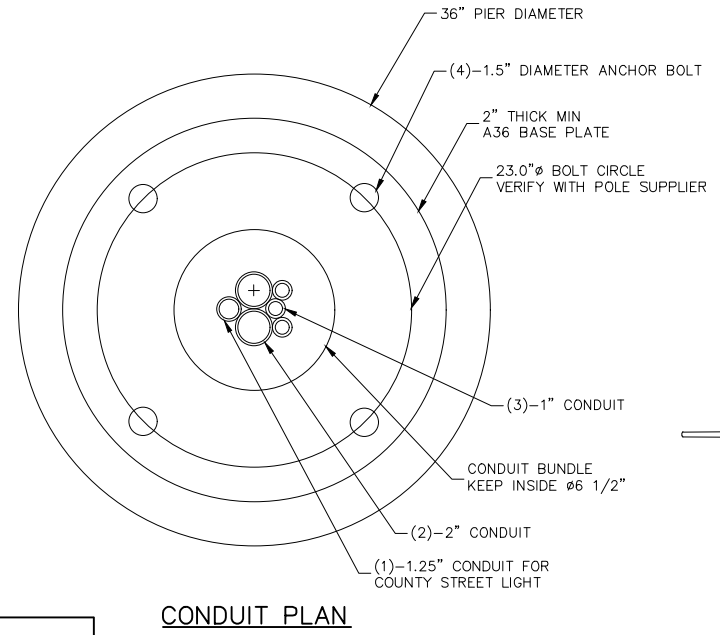
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 BID NO.: 605978-21

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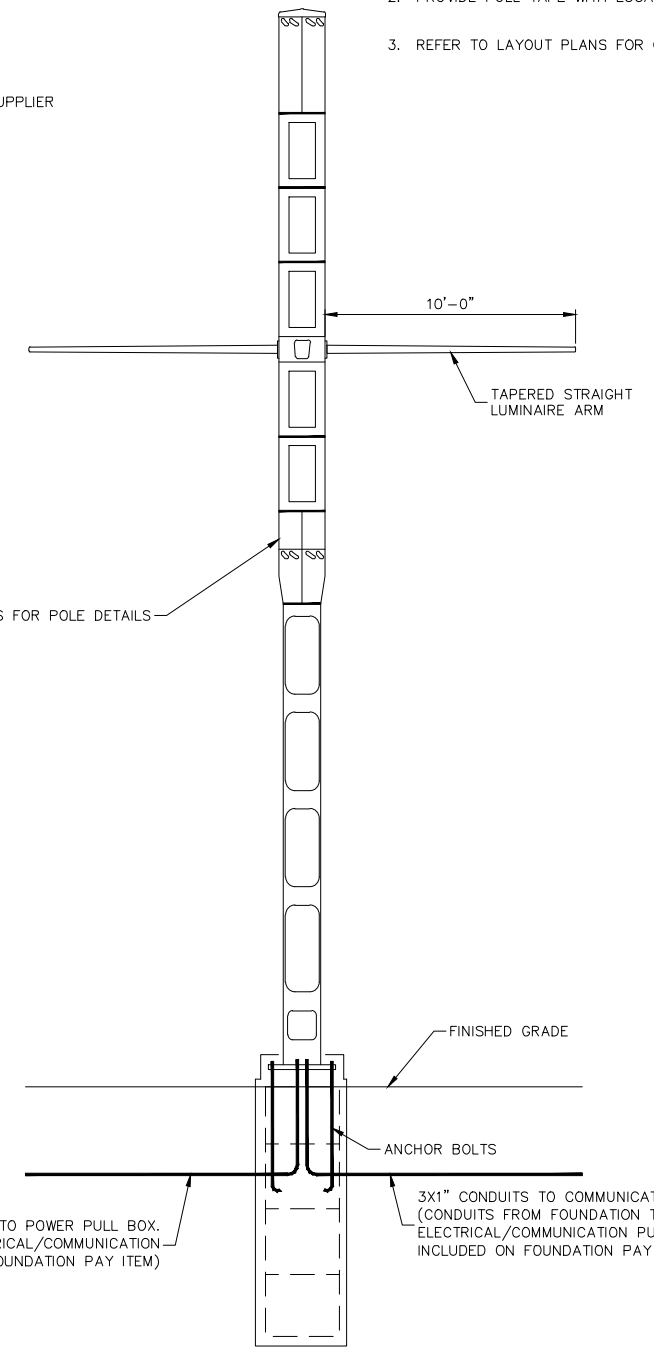
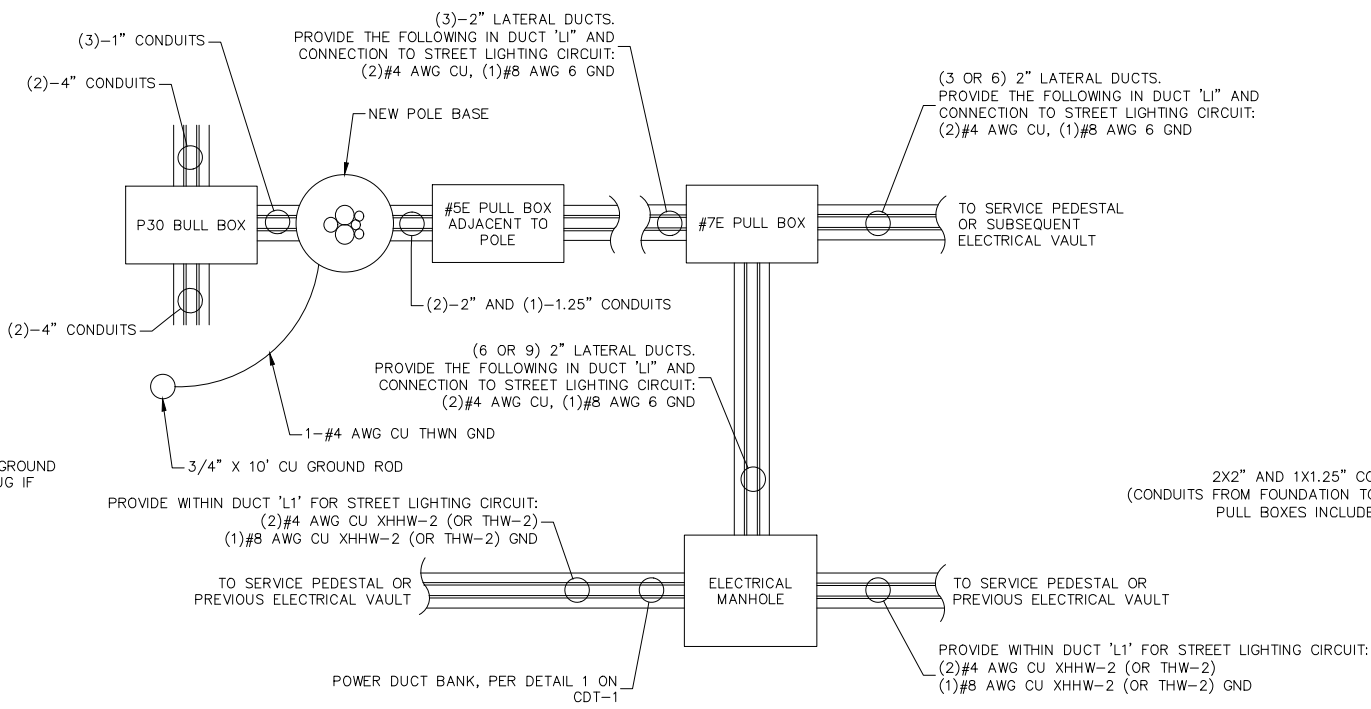
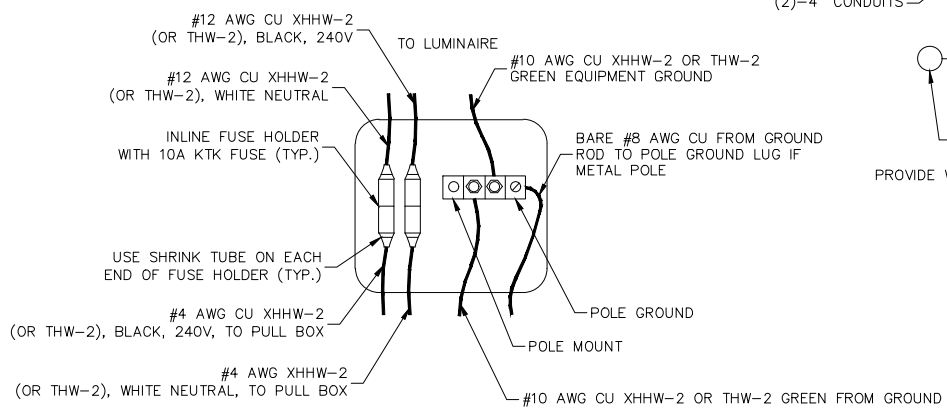


- GENERAL NOTES:**
1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
 2. FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
 3. FOUNDATION TO BE POURED MONOLITHICALLY.
 4. FOUNDATION DESIGN BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. IF WATER TABLE IS ENCOUNTERED 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 LOOPEL 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 (FT)	LENGTH (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE
42'-7"	3.0	12.0	4,500	14	#8	#4-TIE



- 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.

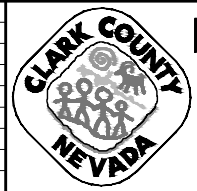


SMART POLE STREET LIGHTING FUSING & GROUNDING DETAILS (TYP.)

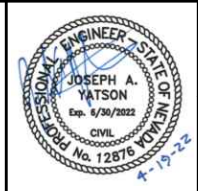
ELECTRICAL PULL BOX AND SMART POLE BASE CONNECTION DETAIL (TYP.)

SMART POLE DETAIL

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SMART POLE DETAIL
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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-8
 SHT. 137 OF 169
 L-2304

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

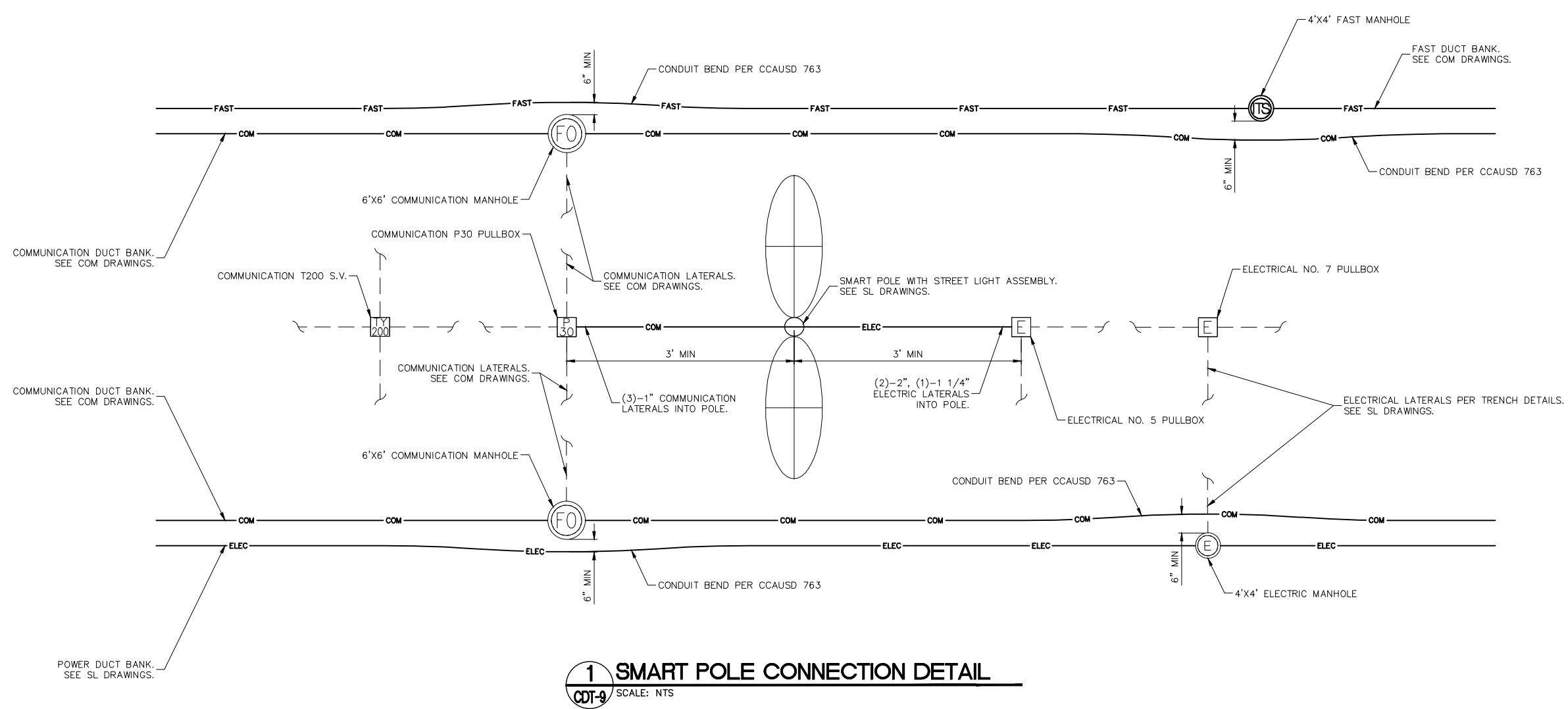
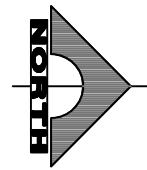
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444

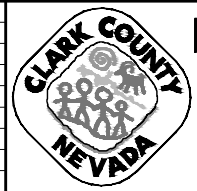
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



1 SMART POLE CONNECTION DETAIL
 CDT-9 SCALE: NTS

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SMART POLE LAYOUT
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

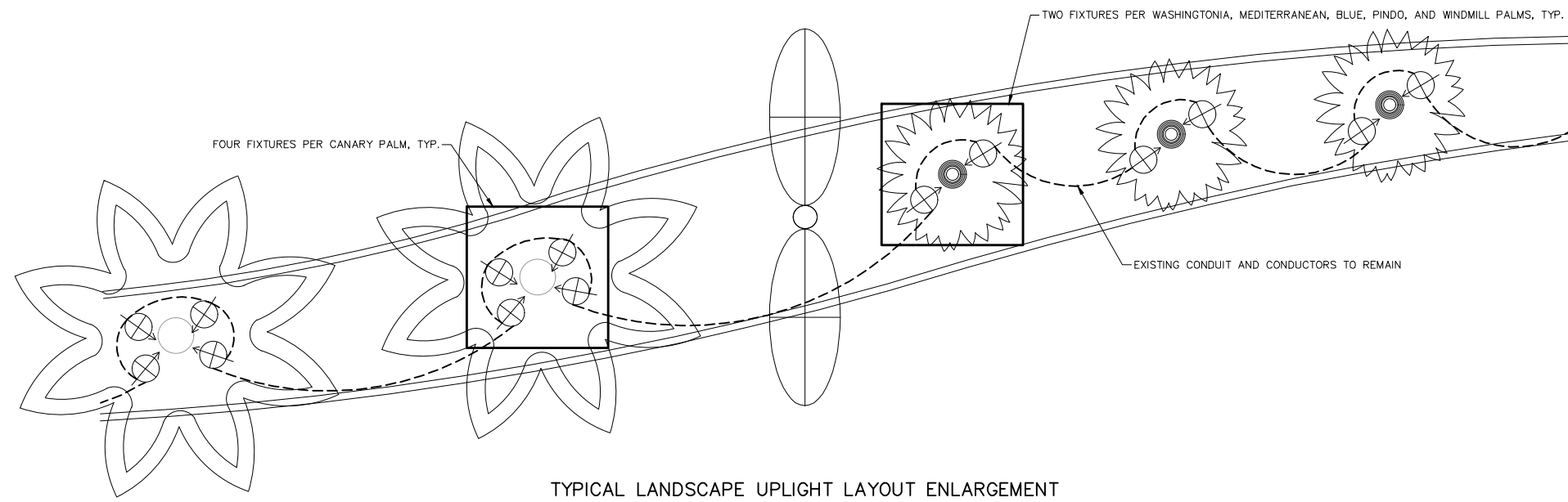


PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: JAY
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
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 F: 702.804.2299
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SCALE	DRAWING NO.
HORIZ: NONE	CDT-9
VERT: NONE	SHT. 138 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

- NOTES:**
1. REMOVE EXISTING LANDSCAPE LIGHTS IN ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW LANDSCAPE UP LIGHTS IN PLACE OF EXISTING FIXTURES (1 FOR 1).
 2. CONTRACTOR SHALL LABEL EACH FIXTURE USING COUNTY NUMBERING SYSTEM. PLEASE CONTACT DAVID PRITCHARD (702-249-7161) FOR NAMING CONVENTION.
 3. CONTRACTOR TO PROVIDE NEW PANEL SCHEDULE SHOWING WHAT LIGHTS ARE ON EACH CIRCUIT.



TYPICAL LANDSCAPE UPLIGHT LAYOUT ENLARGEMENT

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR

1-800-642-2444

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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

LANDSCAPE LIGHT TYPICAL DETAIL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

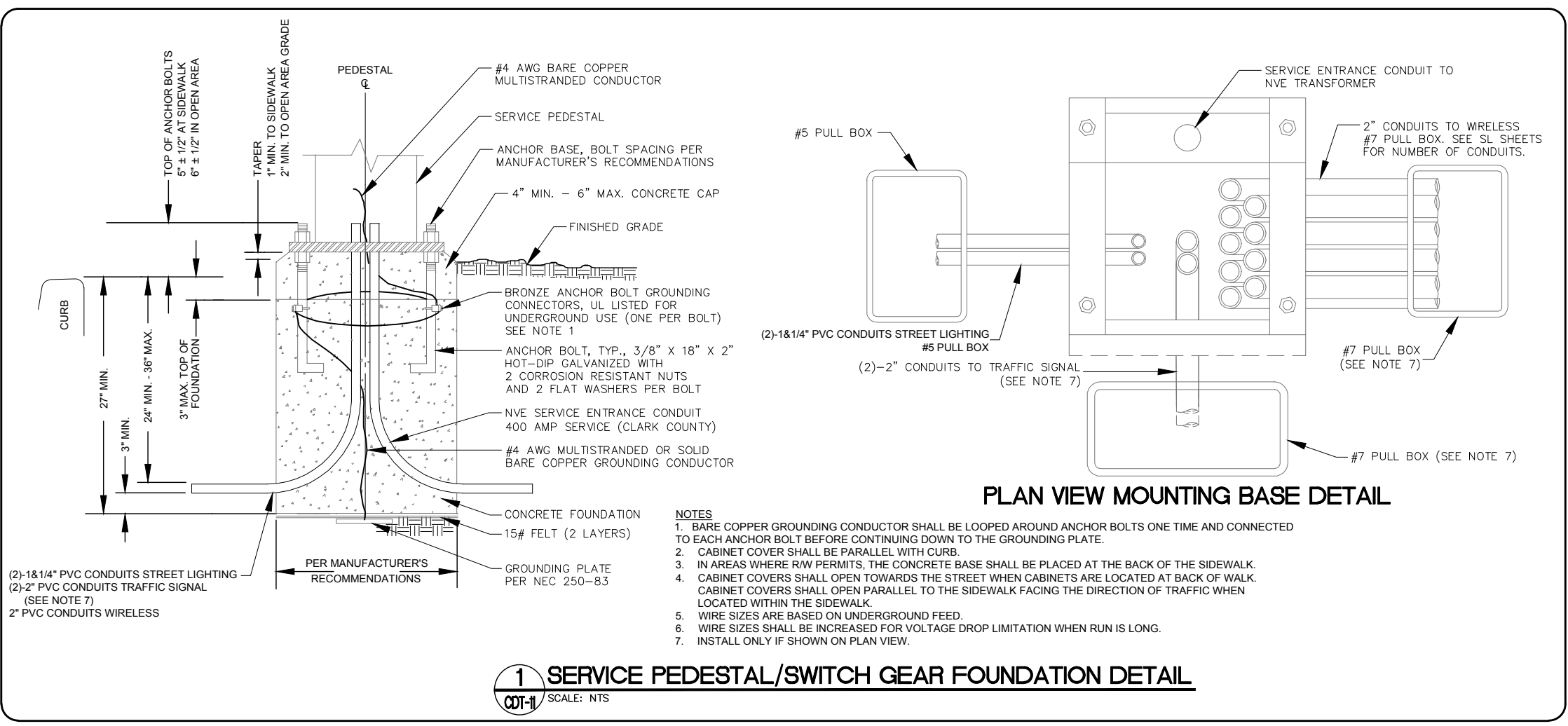


PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: JAY
 APPROVED BY: _____

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SCALE	DRAWING NO.
HORIZ: NONE	CDT-10
VERT: NONE	
FIELD BOOK	SHT. 139 OF 169
	L-2304

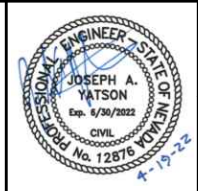
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- GENERAL STRUCTURAL NOTES**
- DESIGN SPECIFICATIONS:** AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" 1ST EDITION, 2015.
 - CONSTRUCTION SPECIFICATIONS:** UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENT, CLARK COUNTY AREA NEVADA.
 - CONCRETE:** ALL CONCRETE SHALL BE CLASS A MODIFIED (MAJOR). ONLY TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH SOIL. CONCRETE COMPRESSIVE MINIMUM STRENGTH AT 28 DAYS SHALL BE, $f'_c=4,500$ PSI AND MAXIMUM WATER TO CEMENT RATIO, BY WEIGHT, OF 0.45.
 - REINFORCING STEEL:** ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. PROVIDE 3" CLEAR MINIMUM CONCRETE COVER UNLESS OTHERWISE NOTED.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.
 - WRAP NO. 4 AWG BARE COPPER GROUNDING WIRE AROUND REINFORCING. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND REINFORCING AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
 - 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.
 - CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES AND UNDERGROUND ITEMS.
 - ANCHOR BOLTS SHALL EXTEND TO 3" CLR OF FOUNDATION BASE. PROVIDE A STEEL PLATE (A36) AT THE END OF EACH ANCHOR BOLT AS SHOWN. PLATE SIZE SHALL BE 5/8" THICK x 3" x 3" WITH A DRILLED HOLE THAT IS 1/16th INCH LARGER THAN BOLT DIAMETER. PROVIDE NUT AND WASHER BELOW AND ABOVE PLATE.



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STRUCTURAL DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



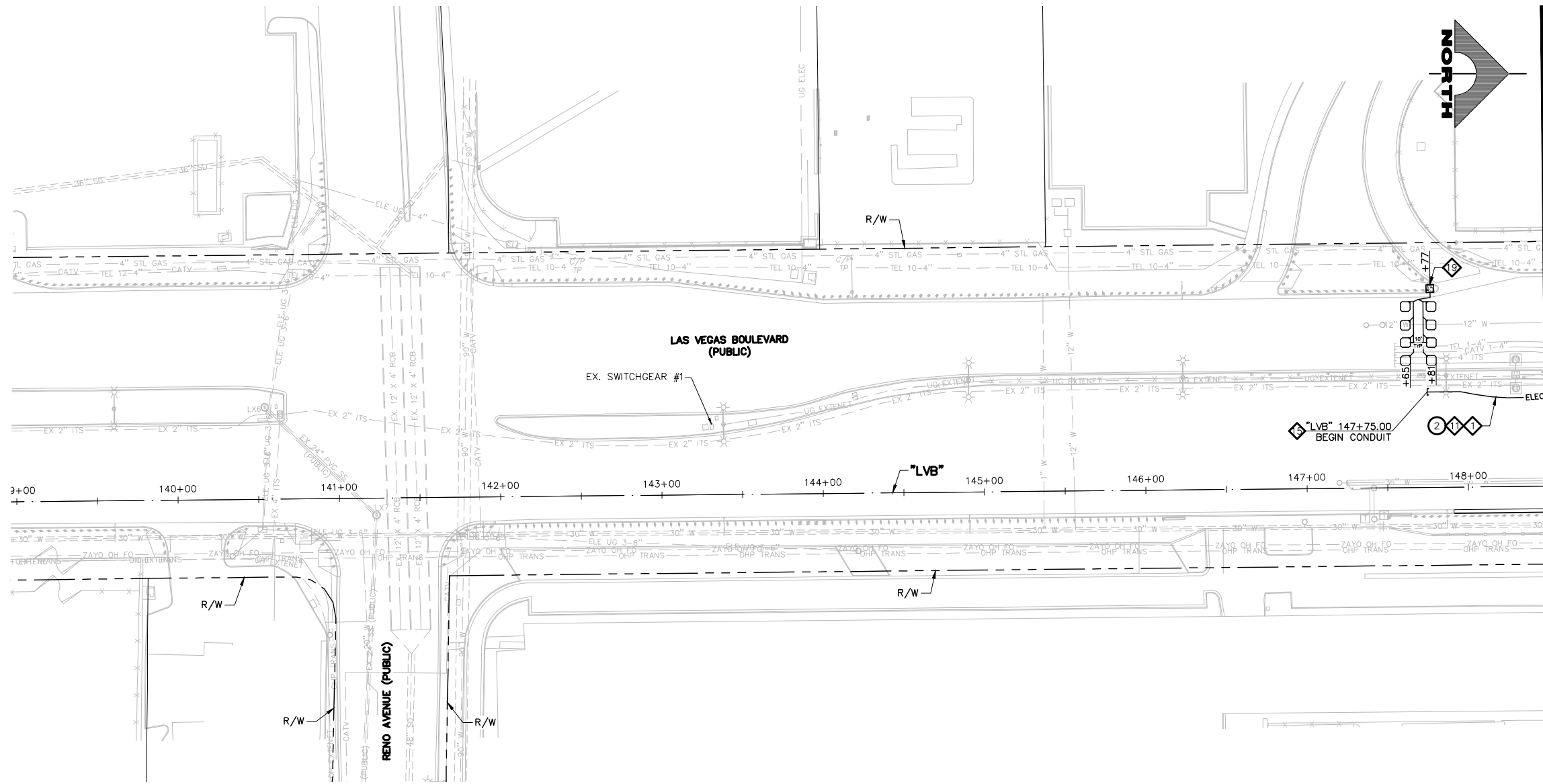
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DESIGNED BY: DAT CHECKED BY: EGG
APPROVED BY: _____

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SCALE	DRAWING NO.
HORIZ: NONE	CDT-11
VERT: NONE	SHT. 140 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

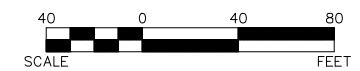
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SEE DRAWING NO. SL-2
MATCHLINE
"LVB" 148+50.00

LIGHTING NOTES

- 1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
- 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
- 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
- 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
- 5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
- 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
- 7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
- 8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
- 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
- 10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
- 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
- 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 14. INSTALL RS-1 PULLBOX (NVE)
- 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
- 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
- 17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
- 18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
- 19. INSTALL (8) 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)
- 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
- 21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
- 22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
- 23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
- 24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
- 25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
- 26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
- 27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
- 28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
- 29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
- 30. REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
- 31. INSTALL SMART POLE MANHOLE (SEE DETAIL 3, DWG. CDT-7)
- 32. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.



WATERLINE SEPARATION NOTE
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.

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 14 DAYS 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.

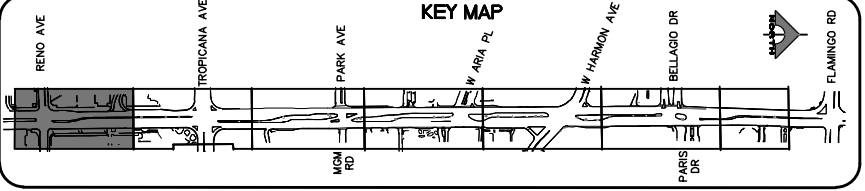
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21.883

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 - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING PLAN
 "LVB" 139+00.00 TO "LVB" 148+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____

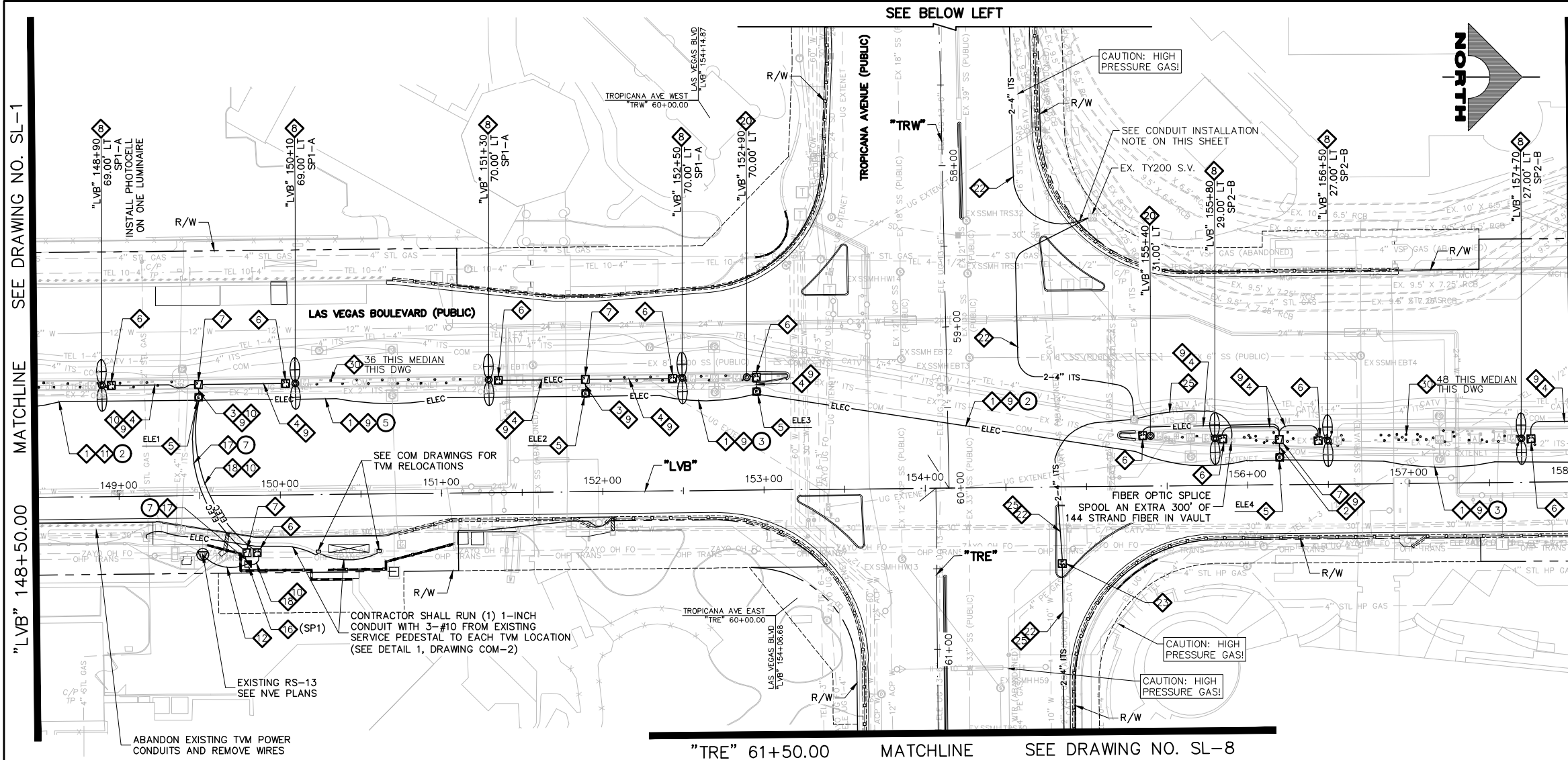
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

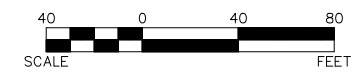
DRAWING NO. **SL-1**
 SHT. 141 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

04-19-22 11:05:15 F:\Projects\500-897-LV-EF\DWG\Production\LV_EF_SL_15_S1_Sheets.dwg



- LIGHTING NOTES**
1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
 5. INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5)
 6. SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
 7. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
 8. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
 9. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
 10. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
 11. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
 12. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
 13. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
 14. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
 15. INSTALL RS-1 PULLBOX (NVE)
 16. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
 17. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 18. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
 19. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
 20. INSTALL (8) 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)
 21. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
 22. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
 23. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
 24. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
 25. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
 26. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
 27. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
 28. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
 29. PERFORM FIBER OPTIC SPLICING IN UNDERGROUND SPLICING ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
 30. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 31. REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
 32. INSTALL SMART POLE MANHOLE (SEE DETAIL 3, DWG. CDT-7)
 33. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.
- NOTES**
1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.



CONDUIT INSTALLATION NOTE
 FOR CONDUIT INSTALLATION INTO STONE TILE WALKWAY, CAREFULLY REMOVE STONE TILES FOR REUSE AND PLACE BACK IN LIKE CONDITION (INCLUDED IN CONDUIT PAY ITEMS).

WATERLINE SEPARATION NOTE
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.

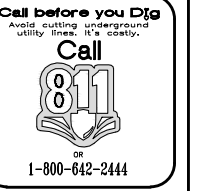
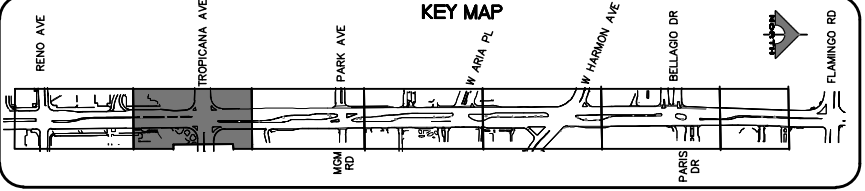
CAUTION: HIGH PRESSURE GAS!!!
 CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CONRD PIPES NUMBER: 21883
 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



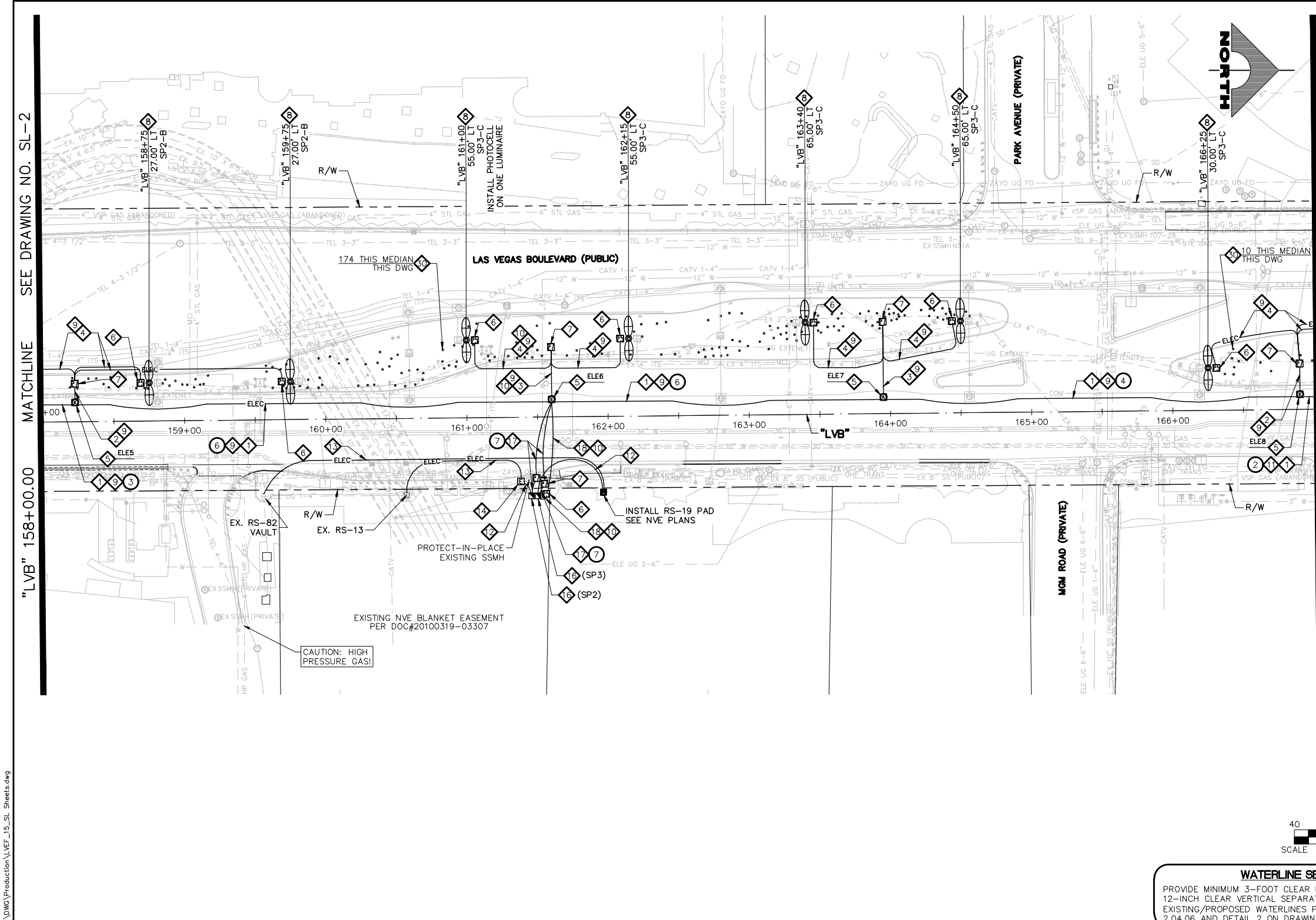
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING PLAN
 "LVB" 148+50.00 TO "LVB" 158+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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-2
VERT: NONE	SHT. 142 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### LIGHTING NOTES
- 1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
 - 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
 - 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
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 - 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
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 - 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
 - 10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
 - 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
 - 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
 - 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
 - 14. INSTALL RS-1 PULLBOX (NVE)
 - 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
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 - 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
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 - 23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
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 - 25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
 - 27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
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 - 32. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.
- ### NOTES
1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

WATERLINE SEPARATION NOTE
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.

CAUTION: HIGH PRESSURE GAS!!!
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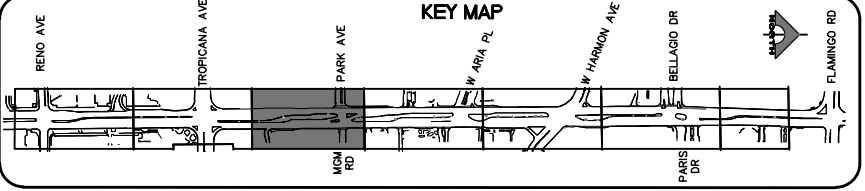
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCWRD PIPES NUMBER: 21883

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.

1-702-901-8400

PREWY AND ARTERIAL SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

STREET LIGHTING PLAN

"LVB" 158+00.00 TO "LVB" 167+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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
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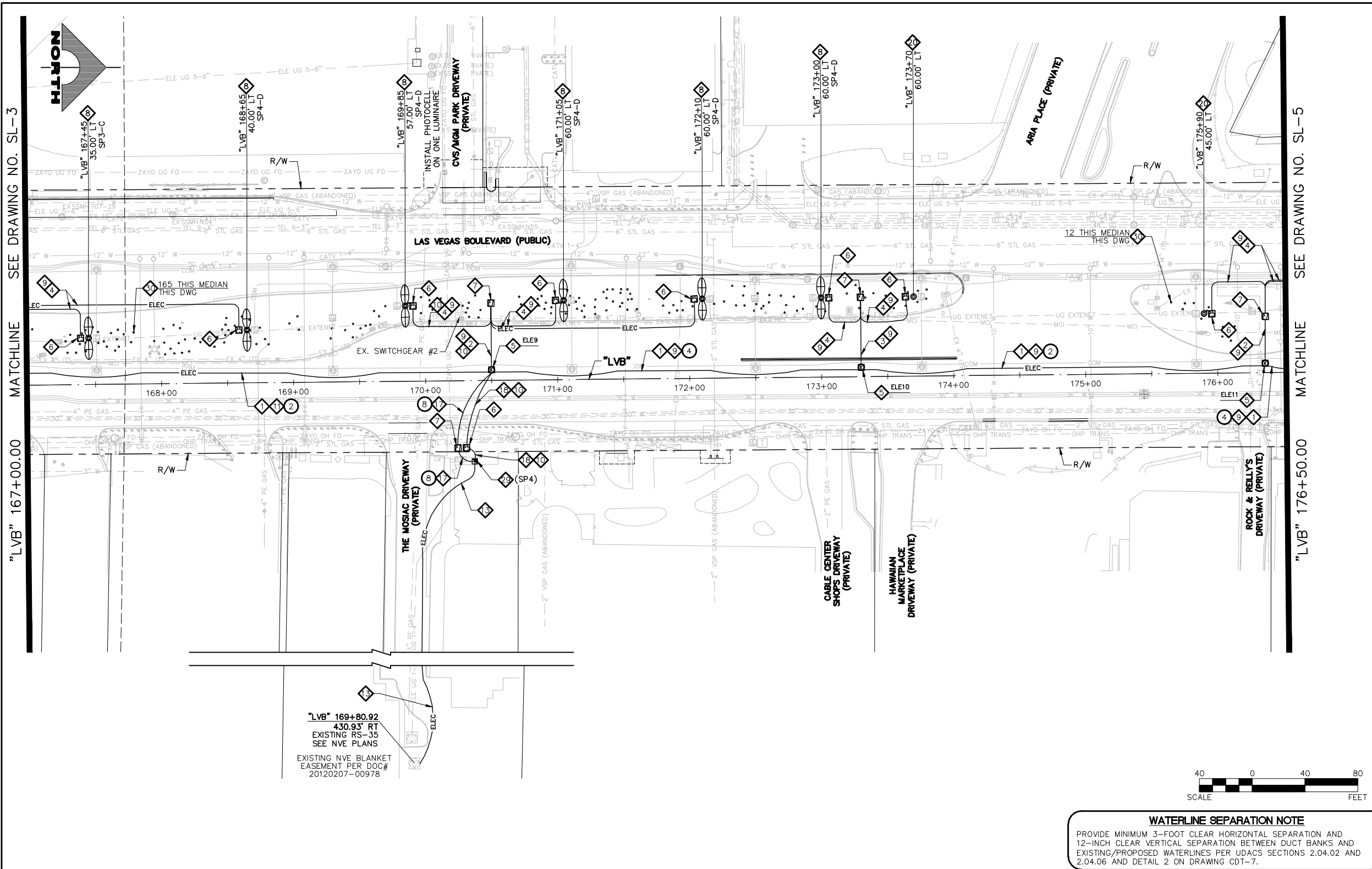
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 VERT: NONE
 FIELD BOOK: _____

DRAWING NO. **SL-3**
 SHT. 143 OF 169
 L-2304

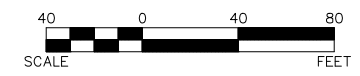
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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- ### LIGHTING NOTES
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 10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
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 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
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 14. INSTALL RS-1 PULLBOX (NVE)
 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
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 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
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 22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
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WATERLINE SEPARATION NOTE
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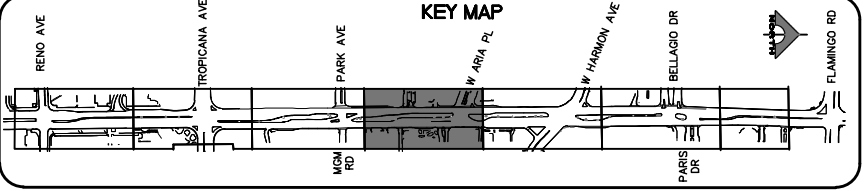
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
 CCRWD PIPES NUMBER: 21.883

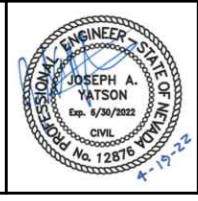
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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING PLAN
 "LVB" 167+00.00 TO "LVB" 176+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____

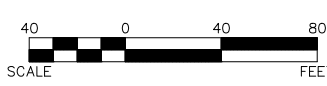
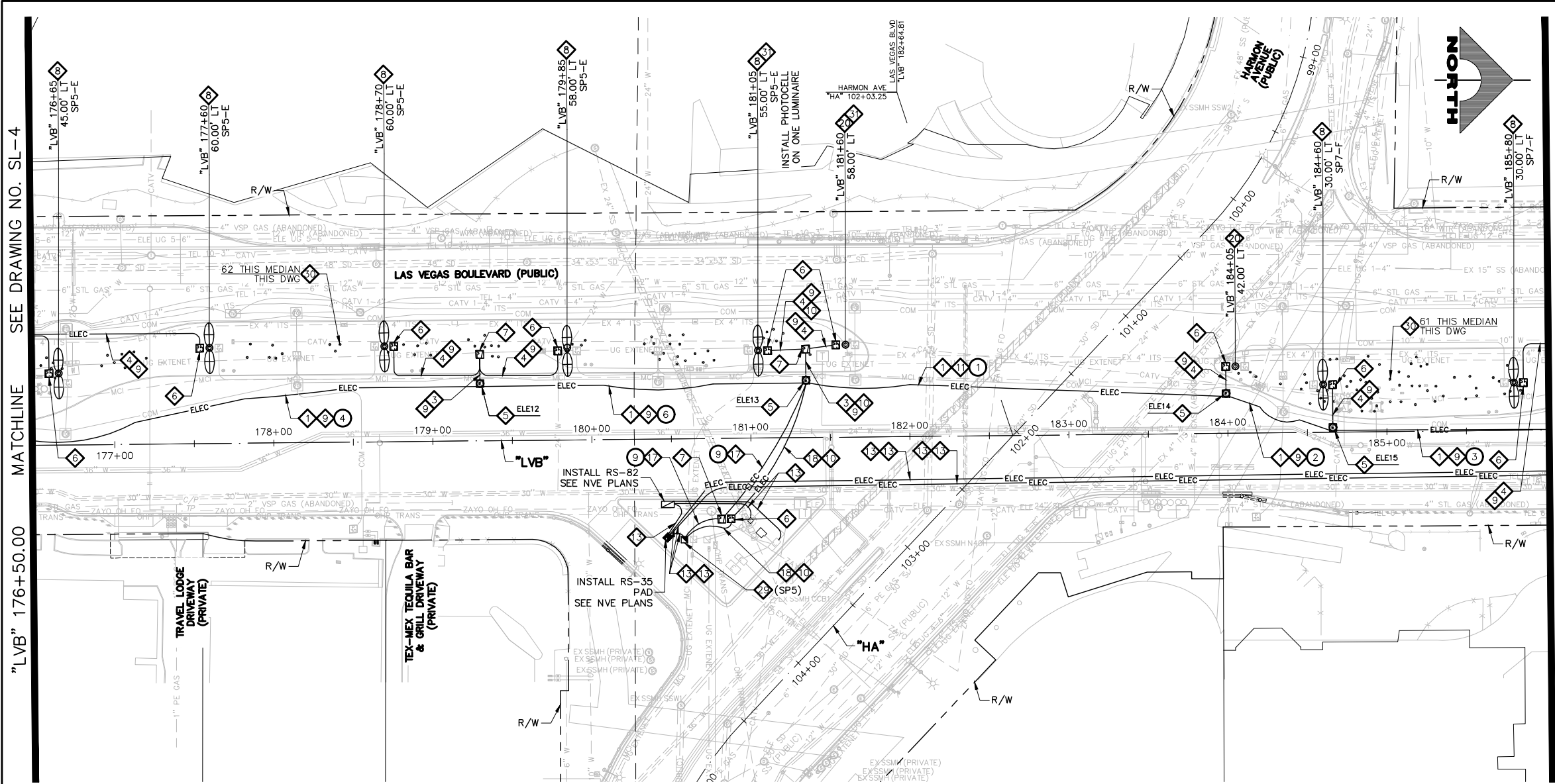
GCV ENGINEERS \ SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

DRAWING NO. **SL-4**
 SHT. 144 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

04-19-22 11:05:32 F:\Projects\500\500-897-LV-EF\DWG\Production\LVF_15_SL_Sheets.dwg



WATERLINE SEPARATION NOTE
PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.

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 - 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
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 - 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
 - 21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
 - 22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
 - 24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
 - 25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
 - 27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
 - 29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 - 30. REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
 - 31. INSTALL SMART POLE MANHOLE (SEE DETAIL 3, DWG. CDT-7)
 - 32. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.
- NOTES**
1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

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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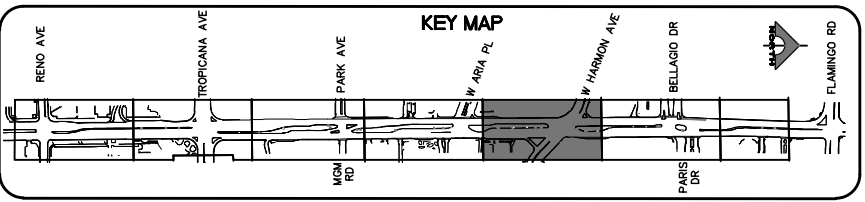
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883

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 - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING PLAN
"LVB" 176+50.00 TO "LVB" 186+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



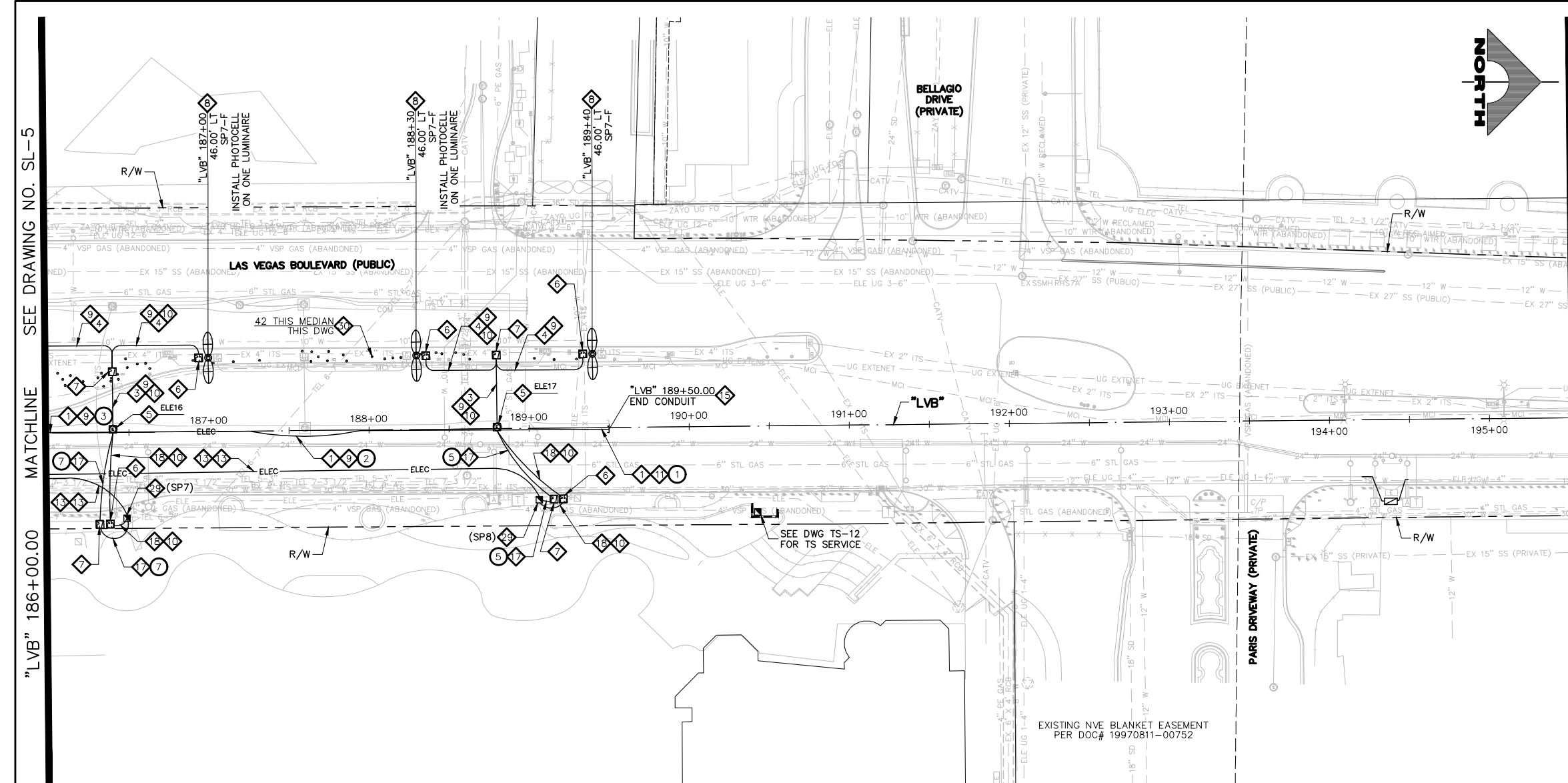
PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY: _____

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-5**
SHT. 145 OF 169
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



SEE DRAWING NO. SL-7

MATCHLINE

"LVB" 195+50.00

MATCHLINE

SEE DRAWING NO. SL-5

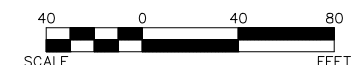
"LVB" 186+00.00

LIGHTING NOTES

- 1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
- 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
- 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
- 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
- 5. INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
- 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
- 7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
- 8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
- 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
- 10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
- 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
- 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 14. INSTALL RS-1 PULLBOX (NVE)
- 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
- 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
- 17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
- 18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
- 19. INSTALL (8) 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)
- 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
- 21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
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- 29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
- 30. REPLACE LANDSCAPE UPLIGHT WITH LED UPLIGHT FIXTURE.
- 31. INSTALL SMART POLE MANHOLE (SEE DETAIL 3, DWG. CDT-7)
- 32. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

NOTES

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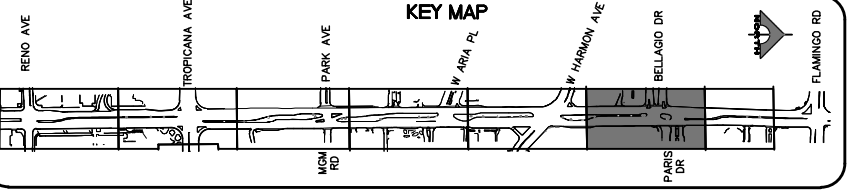
WATERLINE SEPARATION NOTE

PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.

CAUTION: HIGH PRESSURE GAS!!!
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CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883



SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

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REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

STREET LIGHTING PLAN

"LVB" 186+00.00 TO "LVB" 195+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF DRAWN BY: AV
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY: _____

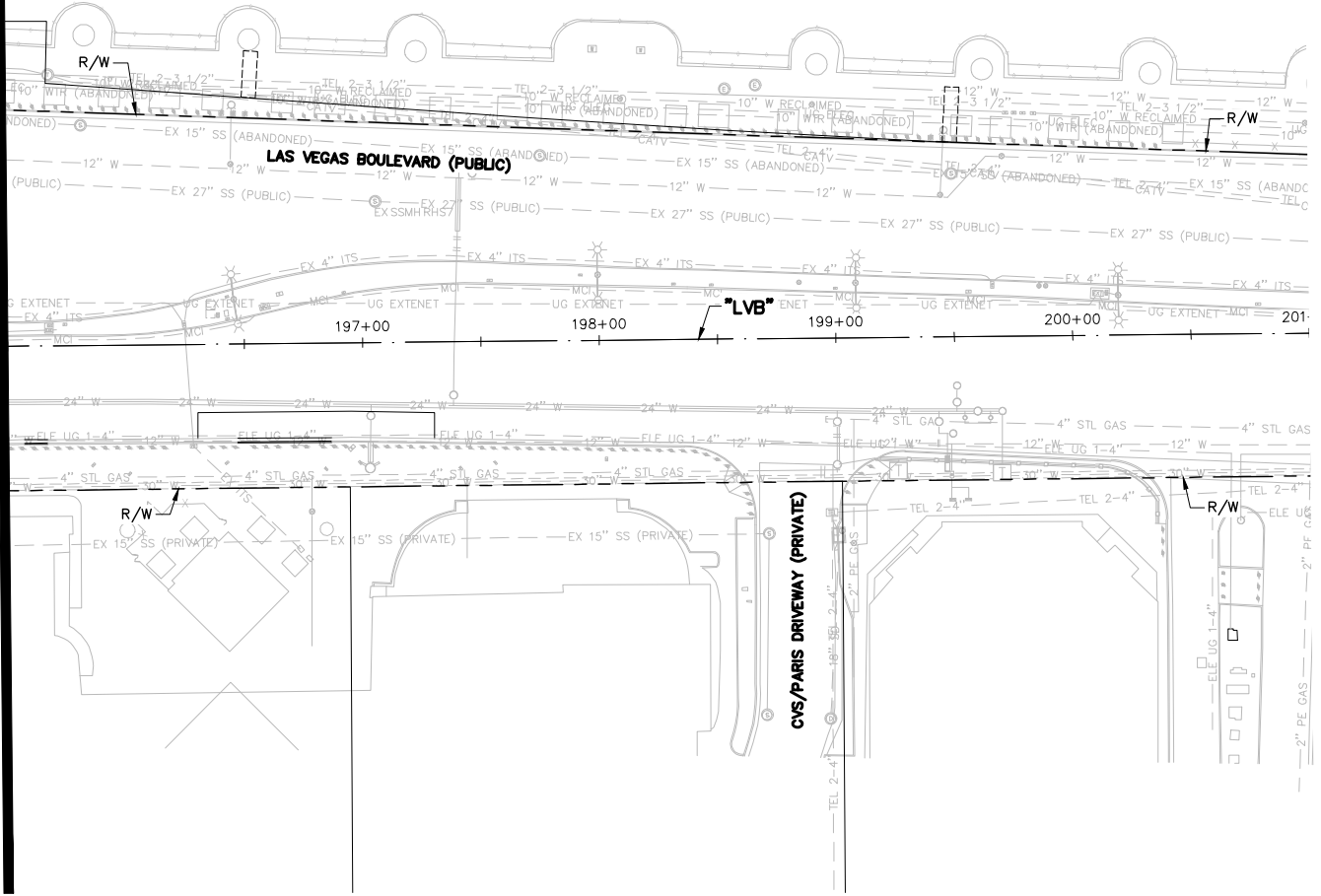
GCV ENGINEERS & SURVEYORS
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LAS VEGAS, NV 89146
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F: 702.804.2299
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

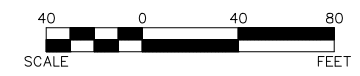
DRAWING NO. **SL-6**
SHT. 146 OF 169
L-2304

MATCHLINE SEE DRAWING NO. SL-6

"LVB" 195+50.00



4'X4' TRAFFIC RATED ELECTRICAL MANHOLE TABLE		
ID	STATION & OFFSET	
ELE1	"LVB" 149+50.00, 61.00 LT	
ELE2	"LVB" 151+90.00, 61.00 LT	
ELE3	"LVB" 152+96.00, 61.00 LT	
ELE4	"LVB" 156+20.00, 17.00 LT	
ELE5	"LVB" 158+22.50, 13.75 LT	
ELE6	"LVB" 161+60.00, 12.50 LT	
ELE7	"LVB" 163+95.00, 11.75 LT	
ELE8	"LVB" 166+90.00, 10.75 LT	
ELE9	"LVB" 170+50.00, 8.00 LT	
ELE10	"LVB" 173+30.00, 7.00 LT	
ELE11	"LVB" 176+36.00, 7.00 LT	
ELE12	"LVB" 179+30.00, 36.00 LT	
ELE13	"LVB" 181+35.00, 36.00 LT	
ELE14	"LVB" 183+99.00, 25.00 LT	
ELE15	"LVB" 184+66.00, 3.00 LT	
ELE16	"LVB" 186+40.00, 2.00 LT	
ELE17	"LVB" 188+80.00, 1.00 LT	



WATERLINE SEPARATION NOTE
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.

- LIGHTING NOTES**
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 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
 5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
 7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
 8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
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 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
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 14. INSTALL RS-1 PULLBOX (NVE)
 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
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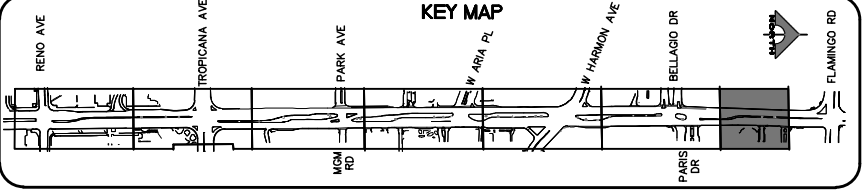
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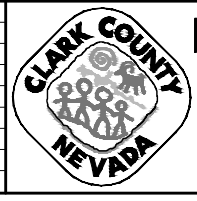
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APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY SRI KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

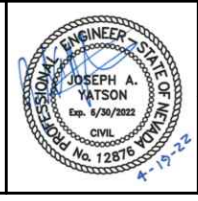
CLARK COUNTY WATER RECLAMATION DISTRICT
 BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21883
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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING PLAN
 "LVB" 195+50.00 TO "LVB" 201+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

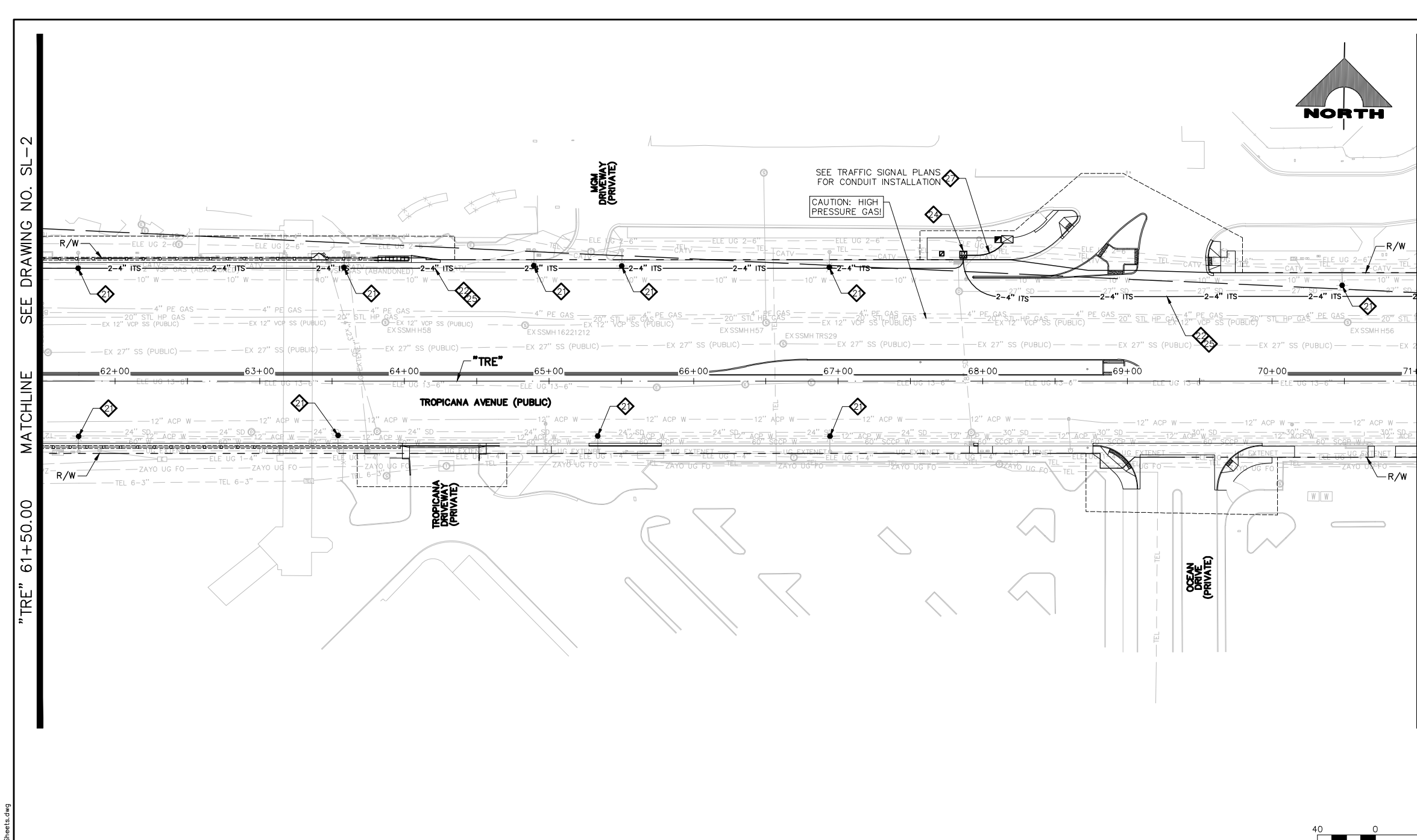


PROJECT No: 500-897-LV-EF DRAWN BY: AV
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GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK
 DRAWING NO. **SL-7**
 SHT. 147 OF 169
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



MATCHLINE SEE DRAWING NO. SL-9

MATCHLINE SEE DRAWING NO. SL-8

LIGHTING NOTES

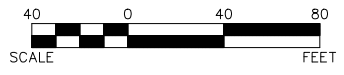
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- 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE (SEE DETAIL 2, DRAWING CDT-11)
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NOTES

- 1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

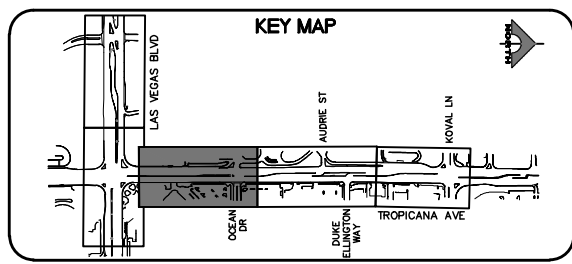
ITS NOTES:

1. CONDUIT ROUTING IS SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. SLACK SHALL BE PROVIDED IN EACH P30 P.B. (30 FT) AND TYPE 200 S.V. (120 FT) UNLESS OTHERWISE NOTED. PULL BOXES, SPLICE VAULTS, AND CONDUIT SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR SHALL VERIFY PRIOR TO INSTALLATION.
3. ALL EXISTING ITS INFRASTRUCTURE SHALL BE MAINTAINED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.



WATERLINE SEPARATION NOTE

PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.



CAUTION: HIGH PRESSURE GAS!!!

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PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

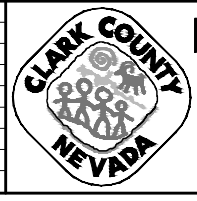
CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883

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

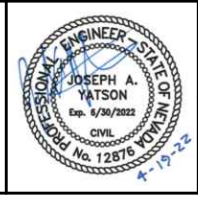


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

STREET LIGHTING/ITS PLAN

"TRE" 61+50.00 TO "TRE" 71+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



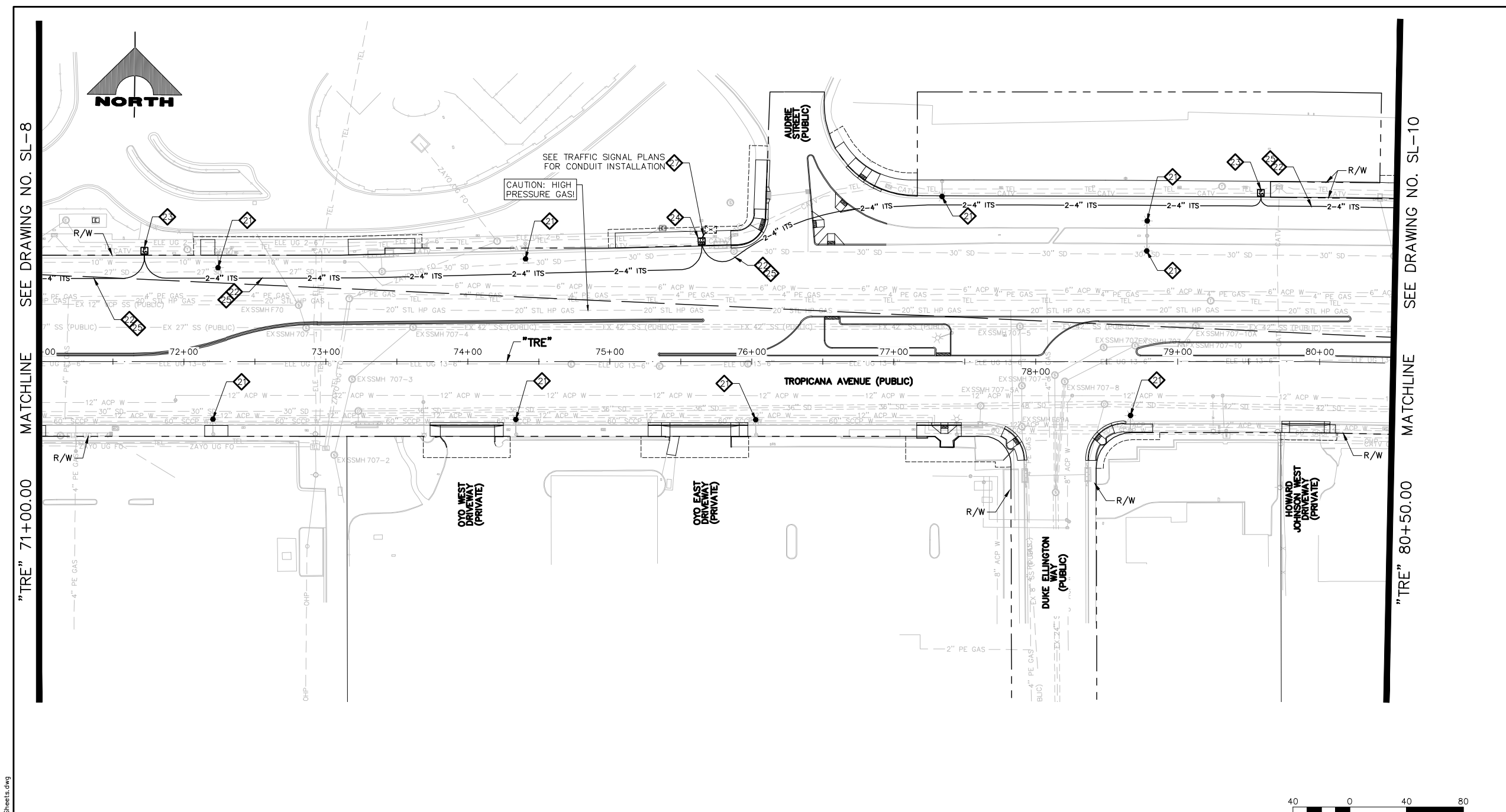
PROJECT No: 500-897-LV-EF DRAWN BY: JAP
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY: _____

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-8
VERT: NONE	SHT. 148 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



SEE DRAWING NO. SL-8

MATCHLINE

"TRE" 71+00.00

SEE DRAWING NO. SL-10

MATCHLINE

"TRE" 80+50.00

ITS NOTES:

- CONDUIT ROUTING IS SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- SLACK SHALL BE PROVIDED IN EACH P30 P.B. (30 FT) AND TYPE 200 S.V. (120 FT) UNLESS OTHERWISE NOTED. PULL BOXES, SPLICE VAULTS, AND CONDUIT SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR SHALL VERIFY PRIOR TO INSTALLATION.
- ALL EXISTING ITS INFRASTRUCTURE SHALL BE MAINTAINED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.

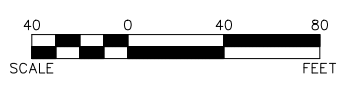
CAUTION: HIGH PRESSURE GAS!!!
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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

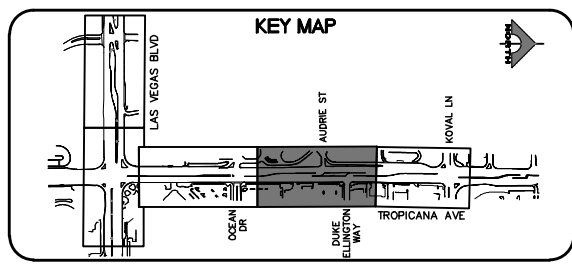
SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY SRI KAMOJALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT
BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883
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.



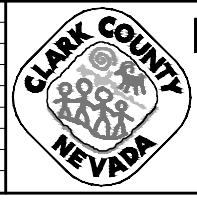
WATERLINE SEPARATION NOTE
PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION AND 12-INCH CLEAR VERTICAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTIONS 2.04.02 AND 2.04.06 AND DETAIL 2 ON DRAWING CDT-7.



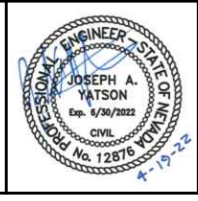
- LIGHTING NOTES**
- 1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
 - 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
 - 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
 - 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
 - 5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5)
SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
 - 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
 - 7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
 - 8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
 - 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
 - 10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
 - 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
 - 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
 - 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE (SEE DETAIL 2, DRAWING CDT-11)
 - 14. INSTALL RS-1 PULLBOX (NVE)
 - 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
 - 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 - 17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
 - 18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
 - 19. INSTALL (8) 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)
 - 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
 - 21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
 - 22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
 - 24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
 - 25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
 - 27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
 - 28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
 - 29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 - 30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.
- NOTES**
- ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.



REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING/ITS PLAN
"TRE" 71+00.00 TO "TRE" 80+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

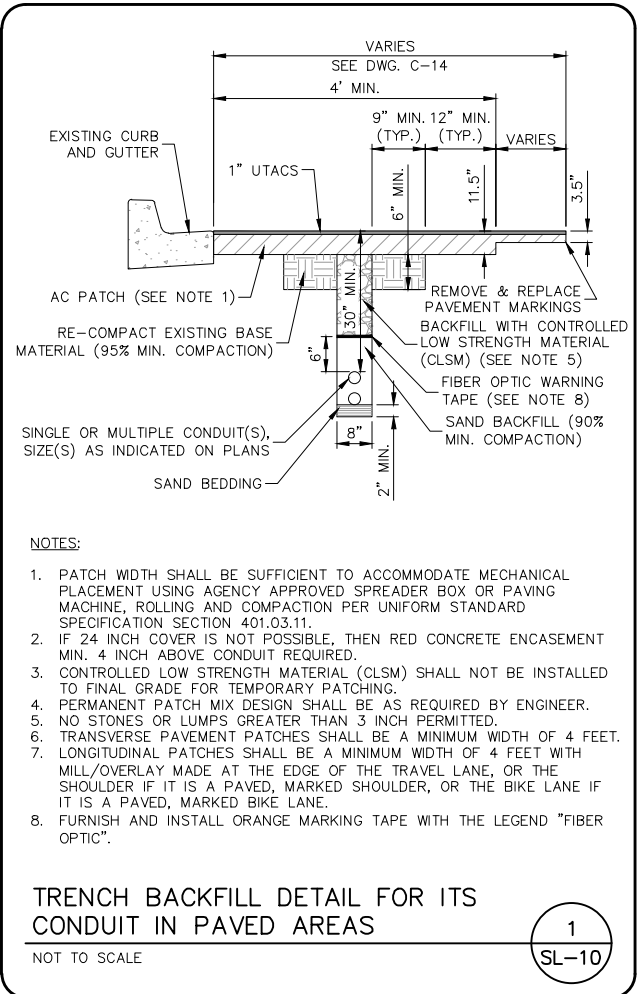
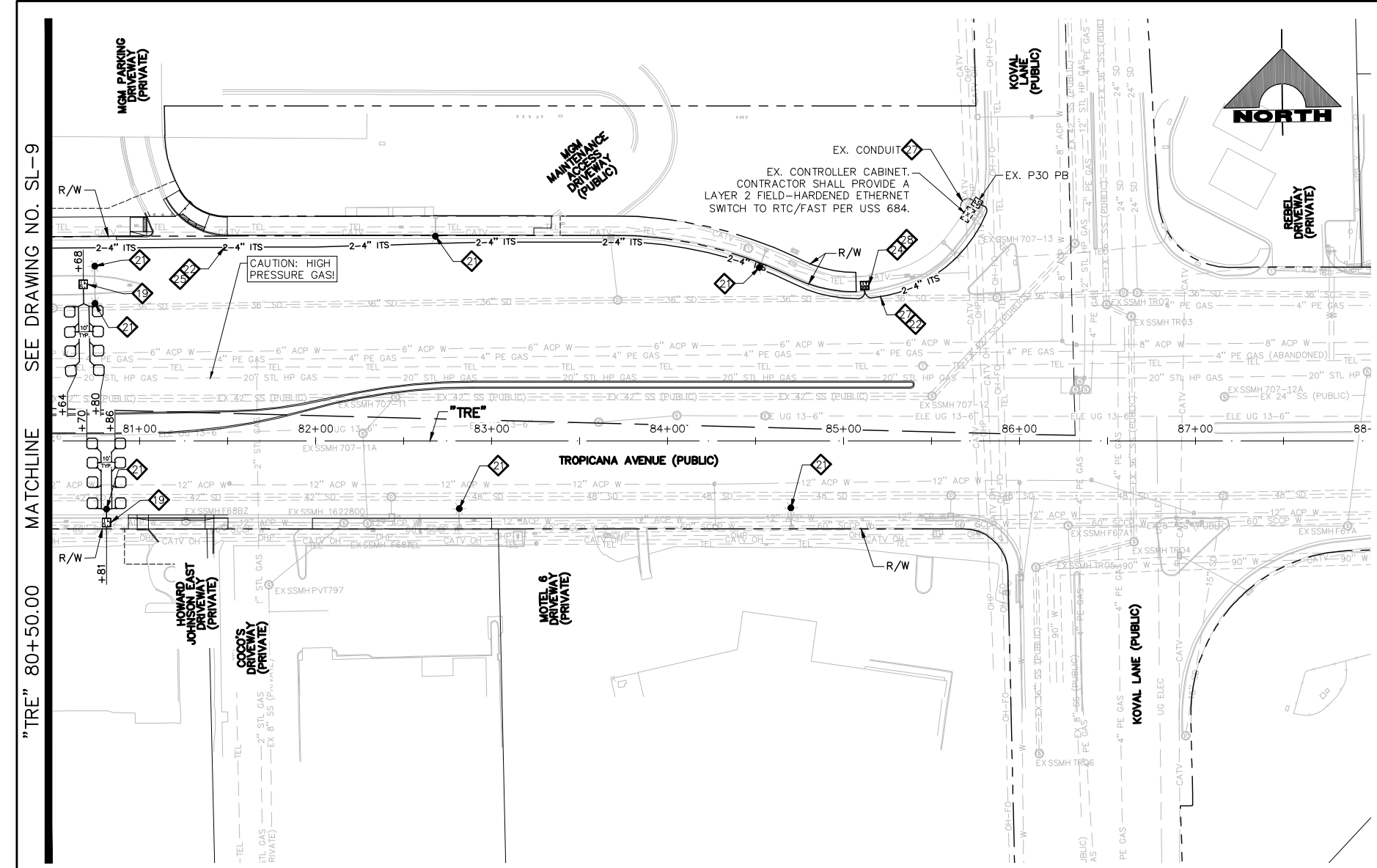


PROJECT No: 500-897-LV-EF DRAWN BY: JAP
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	SL-9
VERT: NONE	SHT. 149 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### LIGHTING NOTES
- 1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
 - 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
 - 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
 - 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
 - 5. INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
 - 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
 - 7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
 - 8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
 - 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
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 - 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
 - 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
 - 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE (SEE DETAIL 2, DRAWING CDT-11)
 - 14. INSTALL RS-1 PULLBOX (NVE)
 - 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
 - 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 - 17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
 - 18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
 - 19. INSTALL (8) 6'x6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.P. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
 - 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
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 - 26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
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 - 29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
 - 30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

- ### NOTES:
1. 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.
 2. IF 24 INCH COVER IS NOT POSSIBLE, THEN RED CONCRETE ENCASUREMENT MIN. 4 INCH ABOVE CONDUIT REQUIRED.
 3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL NOT BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
 4. PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.
 5. NO STONES OR LUMPS GREATER THAN 3 INCH PERMITTED.
 6. TRANSVERSE PAVEMENT PATCHES SHALL BE A MINIMUM WIDTH OF 4 FEET.
 7. 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.
 8. FURNISH AND INSTALL ORANGE MARKING TAPE WITH THE LEGEND "FIBER OPTIC".

TRENCH BACKFILL DETAIL FOR ITS CONDUIT IN PAVED AREAS
NOT TO SCALE

- ### ITS NOTES:
1. CONDUIT ROUTING IS SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 2. SLACK SHALL BE PROVIDED IN EACH P30 P.B. (30 FT) AND TYPE 200 S.V. (120 FT) UNLESS OTHERWISE NOTED. PULL BOXES, SPLICE VAULTS, AND CONDUIT SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR SHALL VERIFY PRIOR TO INSTALLATION.
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CAUTION: HIGH PRESSURE GAS!!!
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SOUTHWEST GAS VALVE NOTE
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS 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.

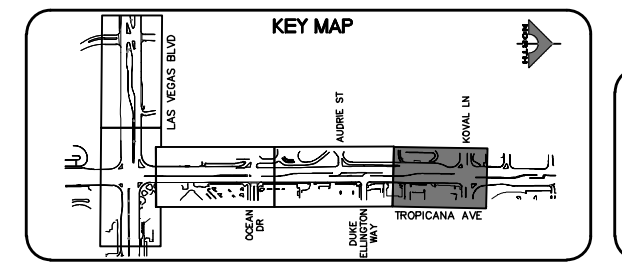
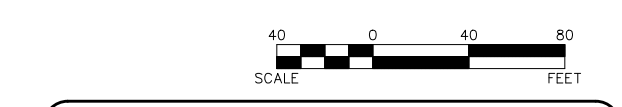
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY SRI KAMOJUALA
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT NO. 139072 FIRST APPROVED DATE: 2/7/22

CLARK COUNTY WATER RECLAMATION DISTRICT

BY DIGITALLY SIGNED BY P.SHOTT DATE 10/19/21
CCWRD PIPES NUMBER: 21.883

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- ### NOTES
1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

FAST
Call before you Dig
UnderGround.
1-702-901-8400
PREMIER AND AERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
STREET LIGHTING/ITS PLAN
"TRE" 80+50.00 TO "TRE" 88+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
DESIGNED BY: JAY CHECKED BY: TAM
APPROVED BY: _____

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SCALE	DRAWING NO.
HORIZ: AS SHOWN	SL-10
VERT: NONE	SHT. 150 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

SP1 – NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL
 ("LVB" 149+80, RT. – 400' SOUTH OF TROPICANA)(SEE DWG SL-2)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING – CIRCUIT "A")
 ONE (1) 30 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "A")
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 FIVE (5) 60 AMP, 240 V., 2-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT A
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	240
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS	4 4.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	4.00
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	20.00

SP2 – NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL
 ("LVB" 161+50, RT.)(SEE DWG SL-3)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING – CIRCUIT "B")
 ONE (1) 30 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "B")
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 SIX (6) 60 AMP, 240 V., 2-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT B
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	240
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS	5 5.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	5.00
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.00

SP3 – NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL
 ("LVB" 161+58, RT.)(SEE DWG SL-3)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING – CIRCUIT "C")
 ONE (1) 30 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "C")
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 SIX (6) 60 AMP, 240 V., 2-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT C
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	240
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS	6 6.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	6.00
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	18.00

SP4 – NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR
 ("LVB" 170+35, RT.)(SEE DWG SL-4)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING – CIRCUIT "D")
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "D")
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 SIX (6) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT D
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	277
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS	5 4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	4.50
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.50

SP5 – NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR
 ("LVB" 180+55, RT.)(SEE DWG SL-5)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING – CIRCUIT "E")
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "E")
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 SIX (6) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT E
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	277
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS	5 4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	4.50
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.50

SP6 – EXISTING 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL
 ("LVB" 180+60, RT.)(SEE DWG SL-5)

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 (SMART POLE)

CIRCUIT NAME:	CIRCUIT F
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	277
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS	5 4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	4.50
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.50

SP7 – NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR
 ("LVB" 186+50, RT.)(SEE DWG SL-6)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING – CIRCUIT "F")
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "F")
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 SIX (6) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT F
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	277
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS	5 4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	4.50
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.50

SP8 – NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR
 ("LVB" 189+35, RT.)(SEE DWG SL-6)

INCLUDE THE FOLLOWING:
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING – CIRCUIT "G")
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING – CIRCUIT "G")
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 FOUR (4) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:	CIRCUIT G
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	277
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS	0 0
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	0
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	24

SP9 – NEW 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL
 ("LVB" 190+42, RT.)(SEE DWG TS-12)

INCLUDE THE FOLLOWING:
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – FUTURE CIRCUITS)
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING – FUTURE CIRCUITS)
 FOUR (4) 30 AMP, 120 V., 1-POLE BREAKERS (INTERSECTION LIGHTING)
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)

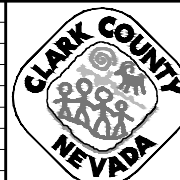
CIRCUIT NAME:	CIRCUIT B
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	240
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS	5 5.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	5.00
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.00

SP10 – NEW 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL
 ("TRE" 68+10, LT.)(SEE DWG TS-15)

INCLUDE THE FOLLOWING:
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING – FUTURE CIRCUITS)
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING – FUTURE CIRCUITS)
 FOUR (4) 30 AMP, 120 V., 1-POLE BREAKERS (INTERSECTION LIGHTING)
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)

CIRCUIT NAME:	CIRCUIT F
CIRCUIT TYPE:	STREET LIGHTING
VOLTAGE:	277
CIRCUIT CAPACITY:	30
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	24
EXISTING CIRCUIT LOAD AMPS =	0
PROPOSED LOAD TO CIRCUIT:	QTY. AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS	5 4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS	0 0
EXISTING PLUS PROPOSED LOAD AMPS =	4.50
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	19.50

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
CIRCUIT CAPACITY VERIFICATIONS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



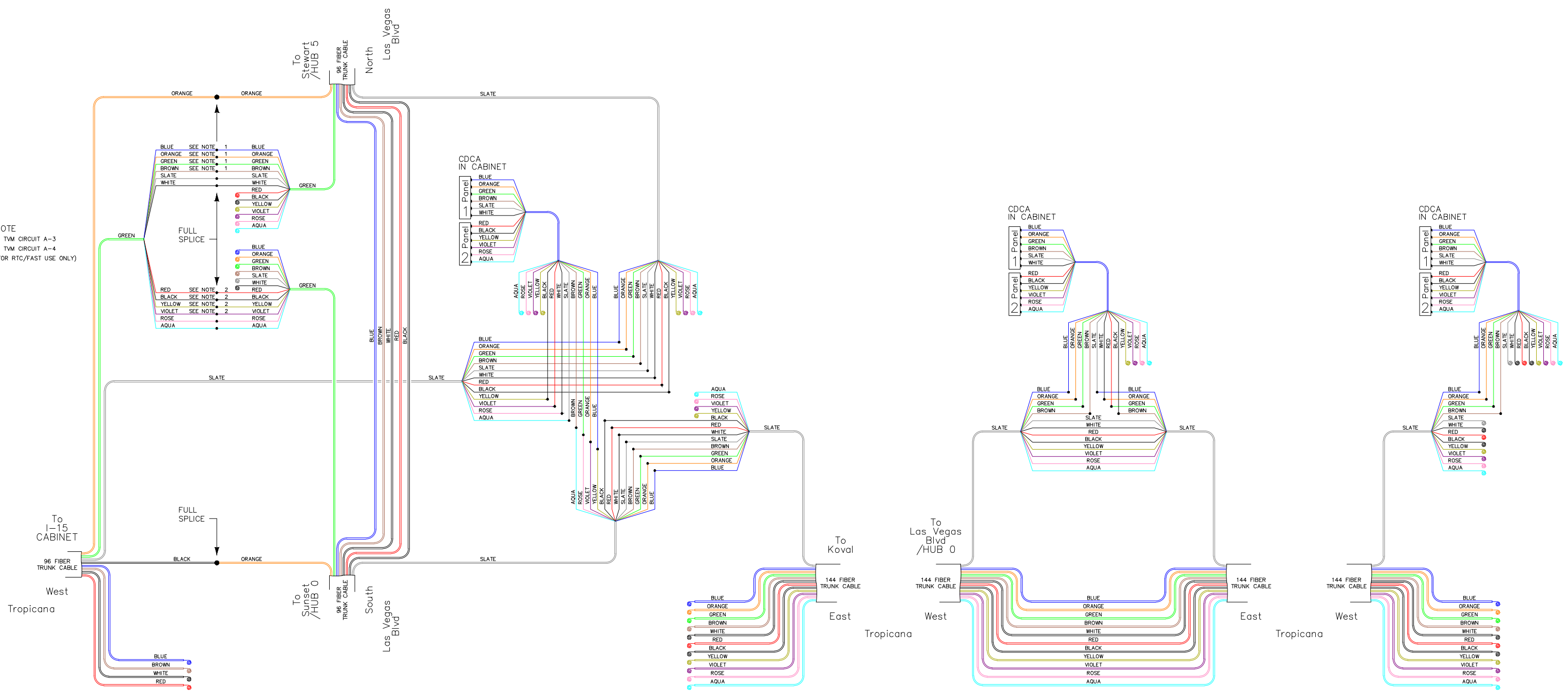
PROJECT No: 500-897-LV-EF DRAWN BY: AV
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	SL-11
VERT: NONE	SHT. 151 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

NOTE
 1. T/M CIRCUIT A-3
 2. T/M CIRCUIT A-4
 (FOR RTC/FAST USE ONLY)



Las Vegas Blvd & Tropicana Ave

Tropicana - Ocean
 - Audrie/Duke Ellington

Tropicana - Koval

TROPICANA AVE SPLICE DIAGRAMS - LAS VEGAS BLVD TO KOVAL LN

A
 SL-12

Splice = ●
 Future Intersection = Fut

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SPLICE DIAGRAMS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



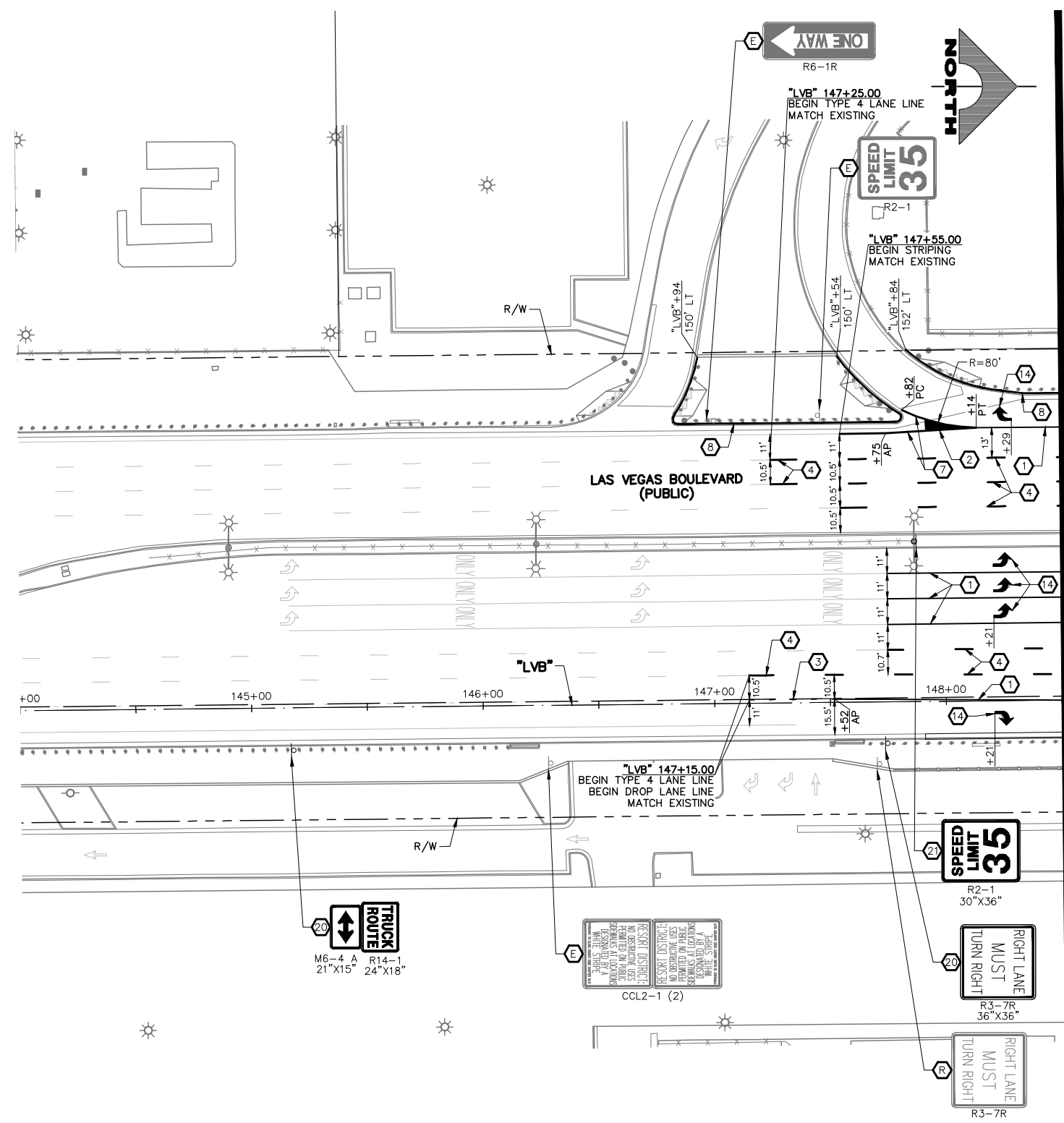
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: JAY CHECKED BY: TAM
 APPROVED BY: _____
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	SL-12
VERT: NONE	SHT. 152 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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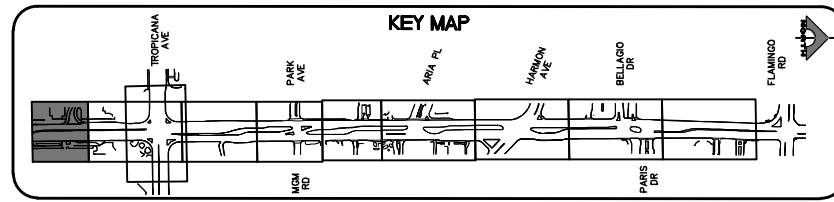
SEE DRAWING NO. ST-2
MATCHLINE
"LVB" 148+50.00

SIGNING AND STRIPING NOTES

- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
- 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
- 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
- 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
- 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
- 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
- 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
- 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
- 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
- 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
- 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
- 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
- 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
- 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
- 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
- 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
- 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
- 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
- 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
- 20 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)
- 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
- 22 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)
- 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
- 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
- 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
- 26 4-INCH SOLID YELLOW LINE (PPM)
- 27 REMOVE EXISTING STRIPING/MARKINGS
- E EXISTING SIGN(S) TO REMAIN
- R REMOVE AND SALVAGE SIGN(S)

TRAFFIC NOTES

1. SEE SIGN DETAILS ON DRAWING ST-17 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.
6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
7. 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 UnderGround.

1-702-901-8400

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

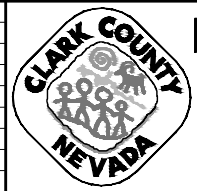
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR

1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
"LVB" 144+00.00 TO "LVB" 148+50.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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-1
VERT: NONE	SHT. 153 OF 169
FIELD BOOK	L-2304

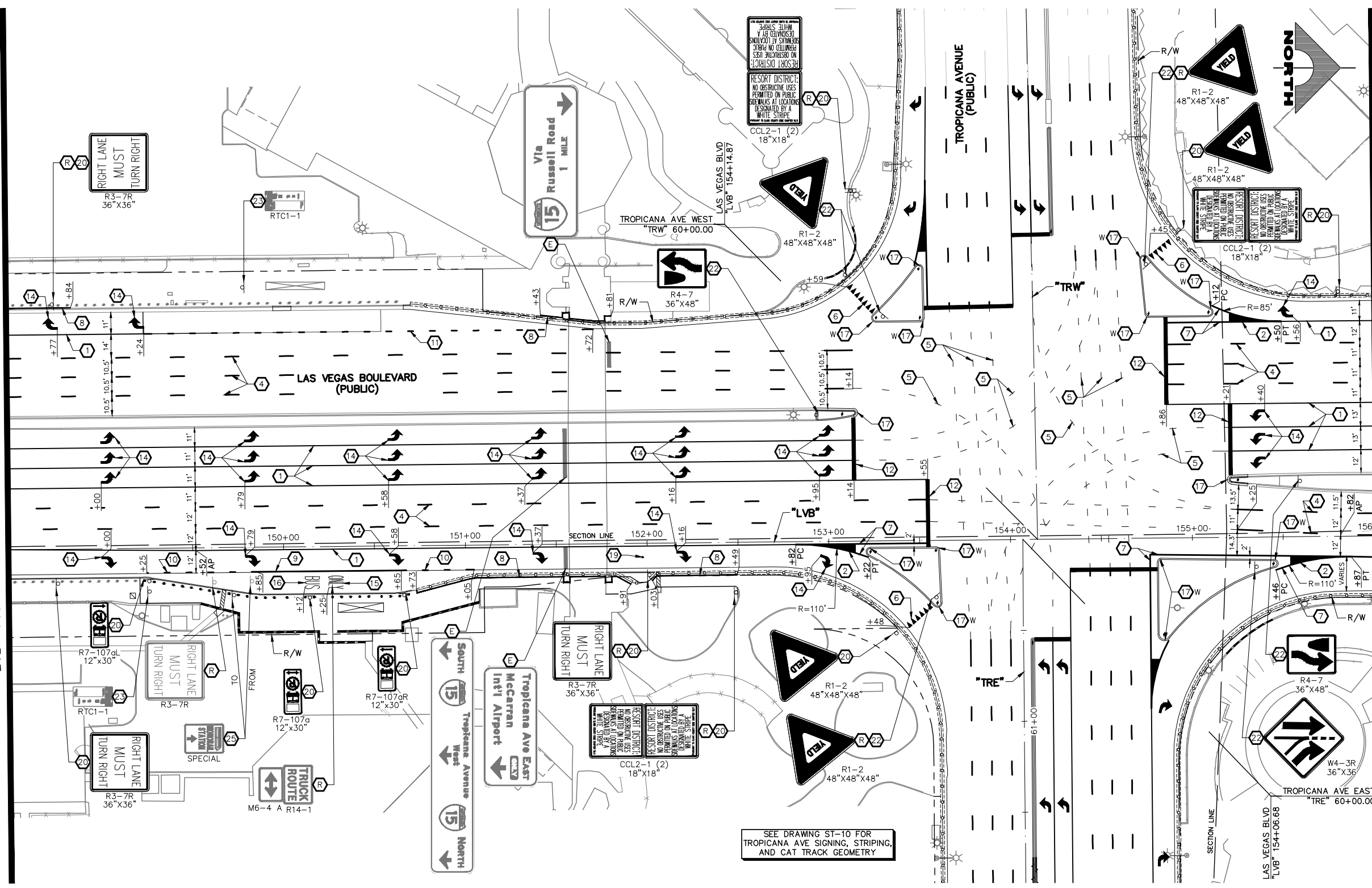
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

SEE DRAWING NO. ST-1

MATCHLINE

"LVB" 148+50.00

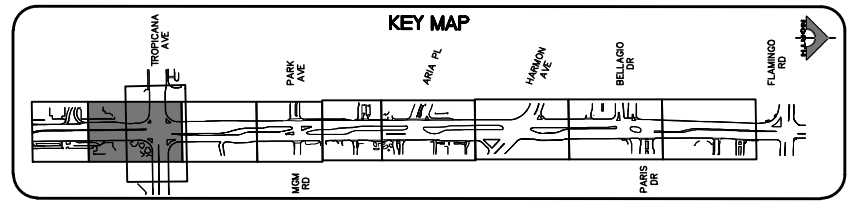
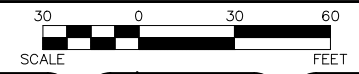


MATCHLINE

"LVB" 156+00.00

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 - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
 - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
 - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
 - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
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 - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
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 - 26 4-INCH SOLID YELLOW LINE (PPM)
 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - 28 EXISTING SIGN(S) TO REMAIN
 - 29 REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 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.
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 6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
 7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

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CALL BEFORE YOU DO UNDERGROUND.

1-702-901-8400

PREPARED AND APPROVED BY SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
"LVB" 148+50.00 TO "LVB" 156+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



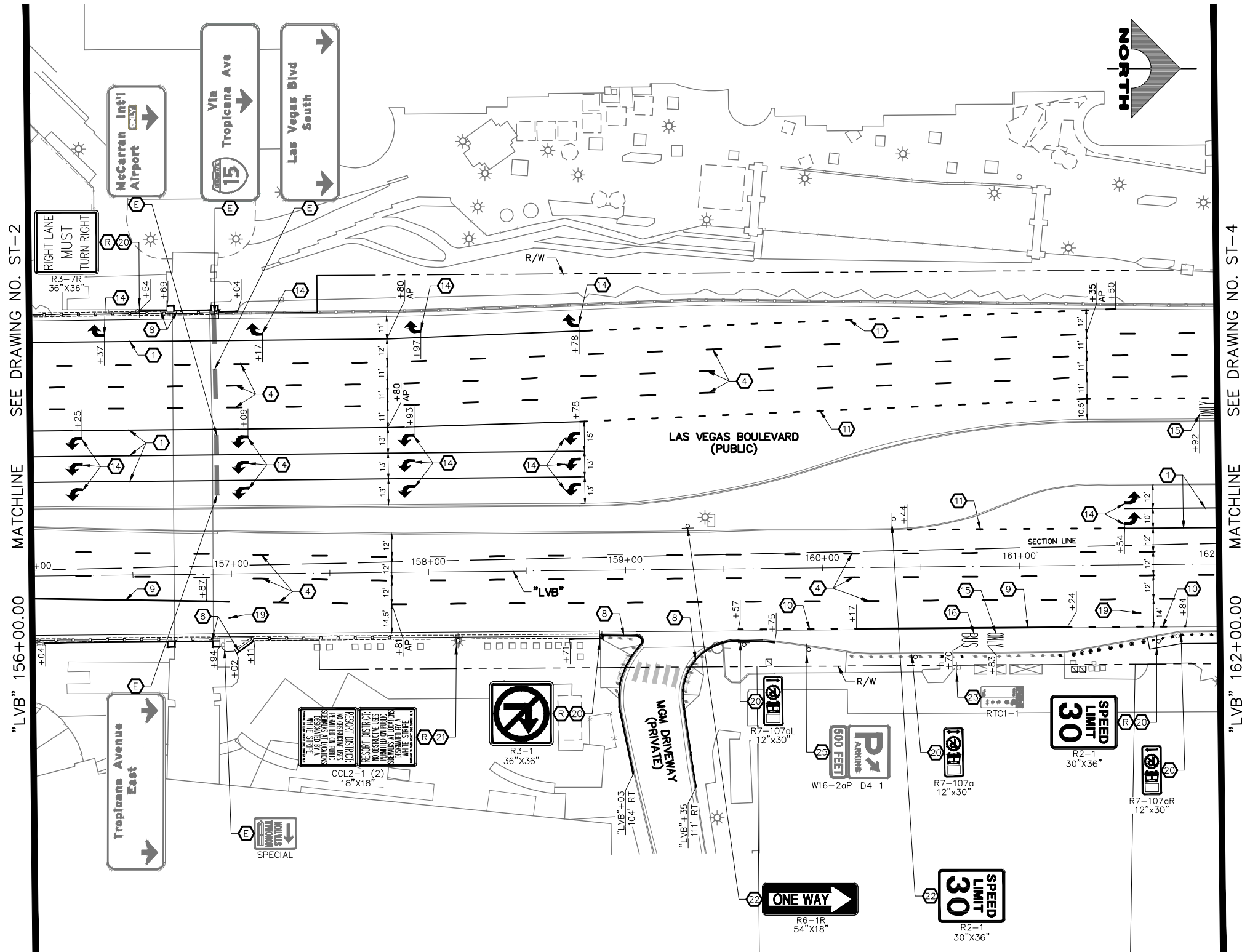
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

GCV
ENGINEERS \ SURVEYORS

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

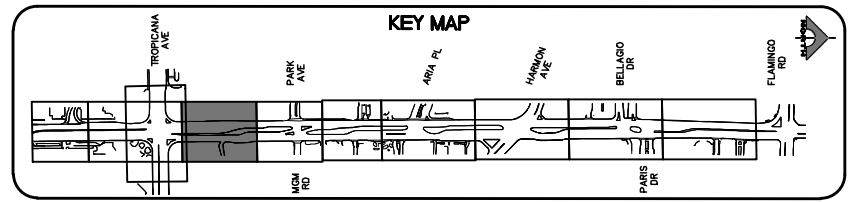
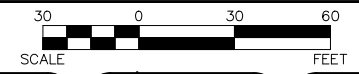
SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-2
VERT: NONE	SHT. 154 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED



- ### SIGNING AND STRIPING NOTES
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 - 26 4-INCH SOLID YELLOW LINE (PPM)
 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - E EXISTING SIGN(S) TO REMAIN
 - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 FOR SPECIAL SIGNS.
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CALL BEFORE YOU DO OVERHEAD

AVOID HITTING OVERHEAD POWER LINES (75' COVER)

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

PREPARE AND APPROVE SYSTEM OF TRANSPORTATION

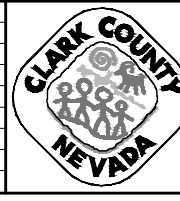
Call before you Dig

Avoid cutting underground utility lines. It's costly.

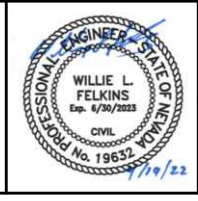
Call 811

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
"LVB" 156+00.00 TO "LVB" 162+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

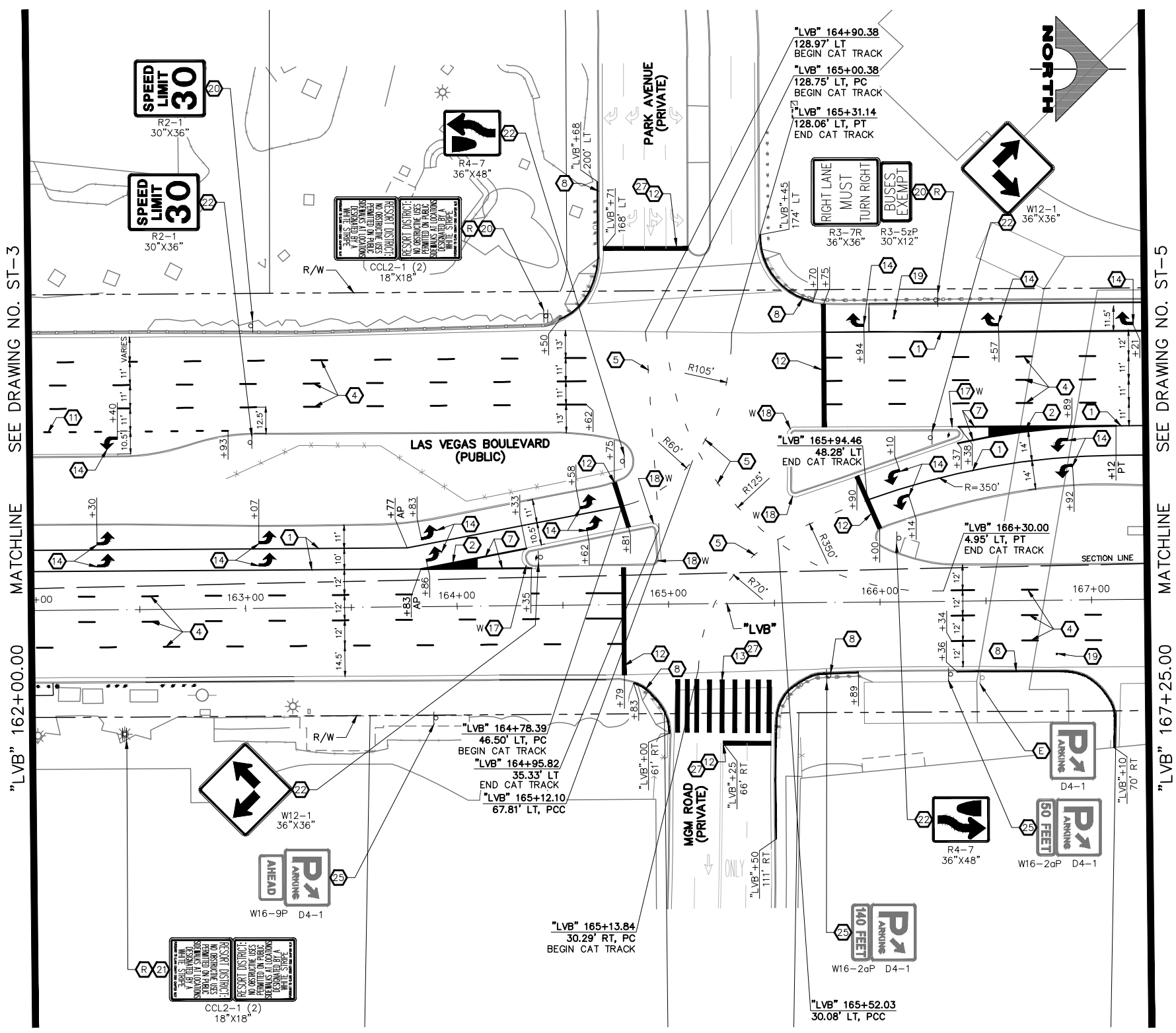


PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

GCV
ENGINEERS & SURVEYORS

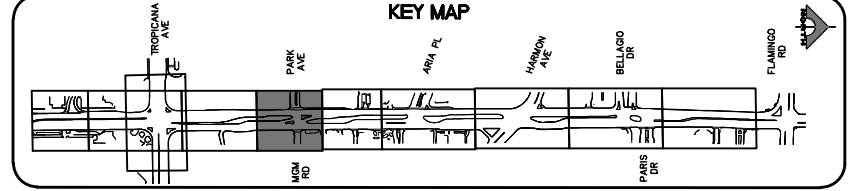
1555 S. RAINBOW BLVD.
LAS VEGAS, NV 89146
T: 702.804.2000
F: 702.804.2299
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-3
VERT: NONE	SHT. 155 OF 169
FIELD BOOK	L-2304



- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
 - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
 - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
 - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
 - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
 - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
 - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
 - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
 - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
 - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
 - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
 - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
 - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
 - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
 - 20 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)
 - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
 - 22 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)
 - 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
 - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
 - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
 - 26 4-INCH SOLID YELLOW LINE (PPM)
 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - E EXISTING SIGN(S) TO REMAIN
 - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 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.
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 6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
 7. 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 UnderGround.

1-702-901-8400

PREVENT AND AVOID THE SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR

1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"LVB" 162+00.00 TO "LVB" 167+25.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

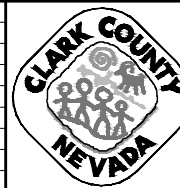
1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gowengineering.com

SCALE: HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

DRAWING NO. **ST-4**
 SHT. 156 OF 169
 L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

REV. NO.	DATE	DESCRIPTION	APPROVED

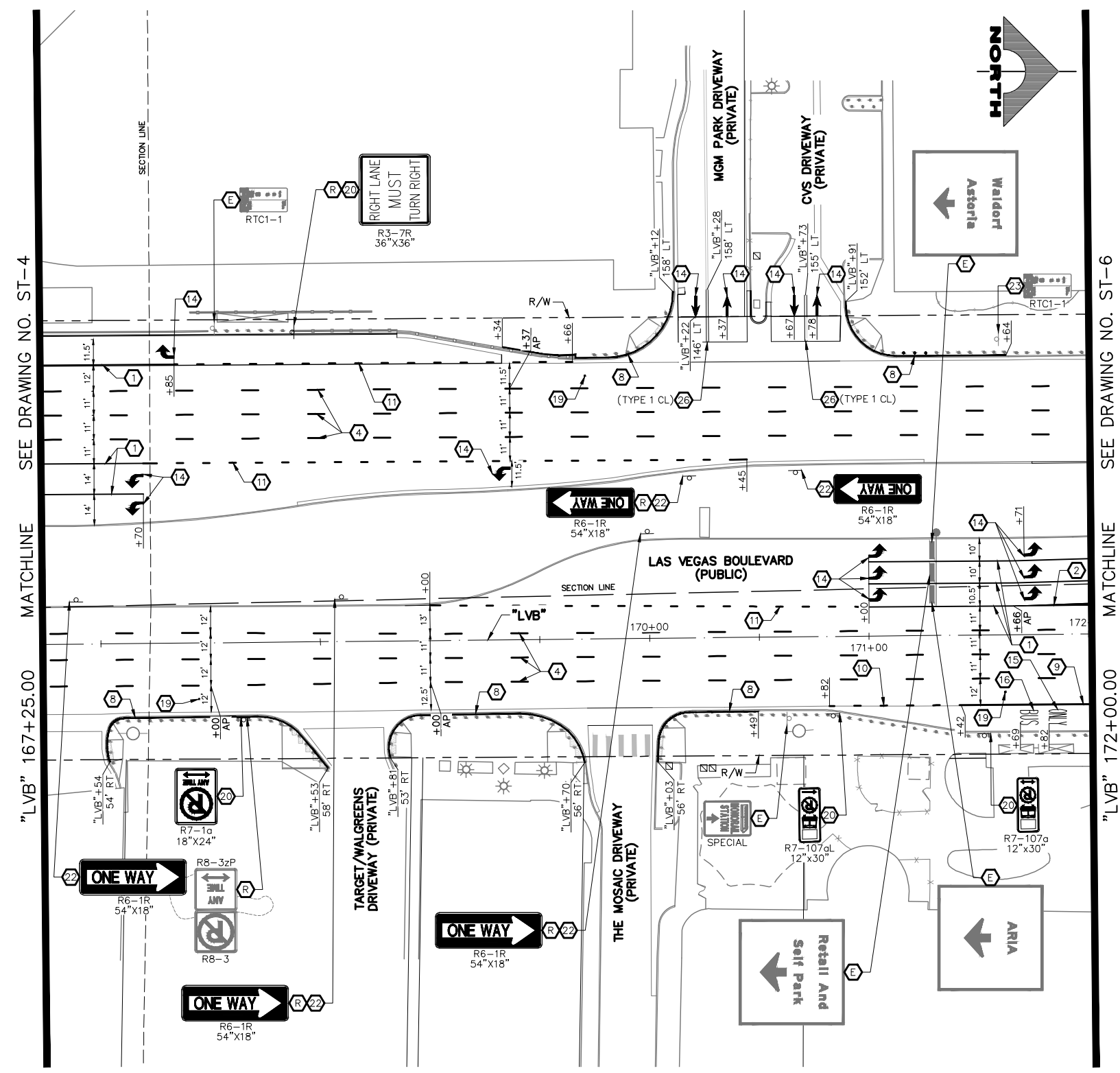


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
 "LVB" 167+25.00 TO "LVB" 172+00.00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



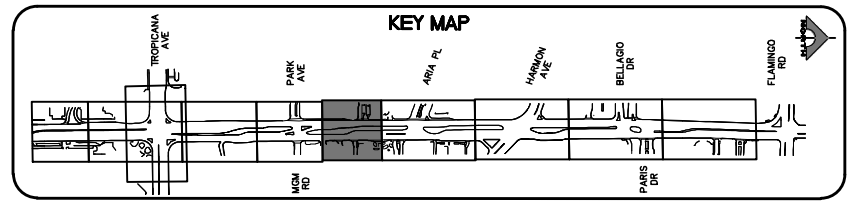
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____
GCV
 ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
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 gcvengineering.com

SCALE
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK
 DRAWING NO.
ST-5
 SHT. 157 OF 169
 L-2304



- SIGNING AND STRIPING NOTES**
- STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
 - CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
 - WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
 - 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
 - 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
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 - 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
 - 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
 - WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
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 - REMOVE EXISTING STRIPING/MARKINGS
 - EXISTING SIGN(S) TO REMAIN
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- TRAFFIC NOTES**
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CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

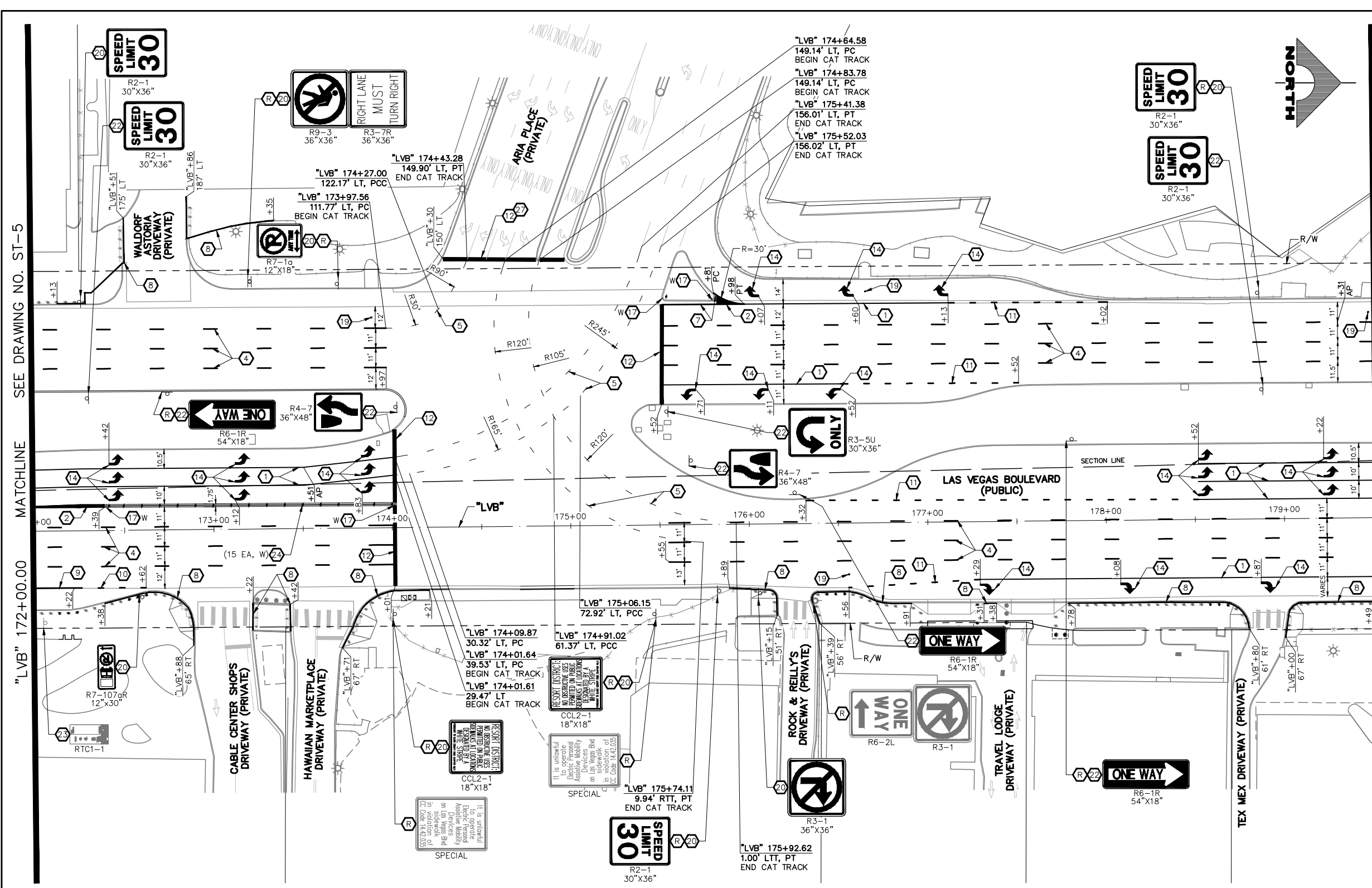
FRESH AIR AND WATER SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

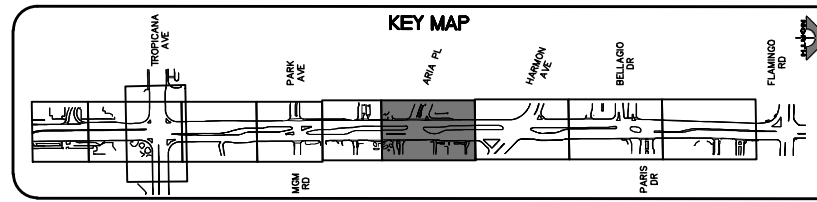
OR 1-800-642-2444



- ### SIGNING AND STRIPING NOTES
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 - 26 4-INCH SOLID YELLOW LINE (PPM)
 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - 28 EXISTING SIGN(S) TO REMAIN
 - 29 REMOVE AND SALVAGE SIGN(S)
-
- ### TRAFFIC NOTES
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 2. SEE GENERAL NOTES ON DRAWING NO. G-4.
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SEE DRAWING NO. ST-7

SEE DRAWING NO. ST-5



AVOID HITTING OVERHEAD POWER LINES (75' CLEARANCE)

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

PREPARED AND APPROVED SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call **811**

OR

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"LVB" 172+00.00 TO "LVB" 179+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA SCALE: _____

DESIGNED BY: DSH CHECKED BY: JRT HORIZ: AS SHOWN

APPROVED BY: _____ VERT: NONE

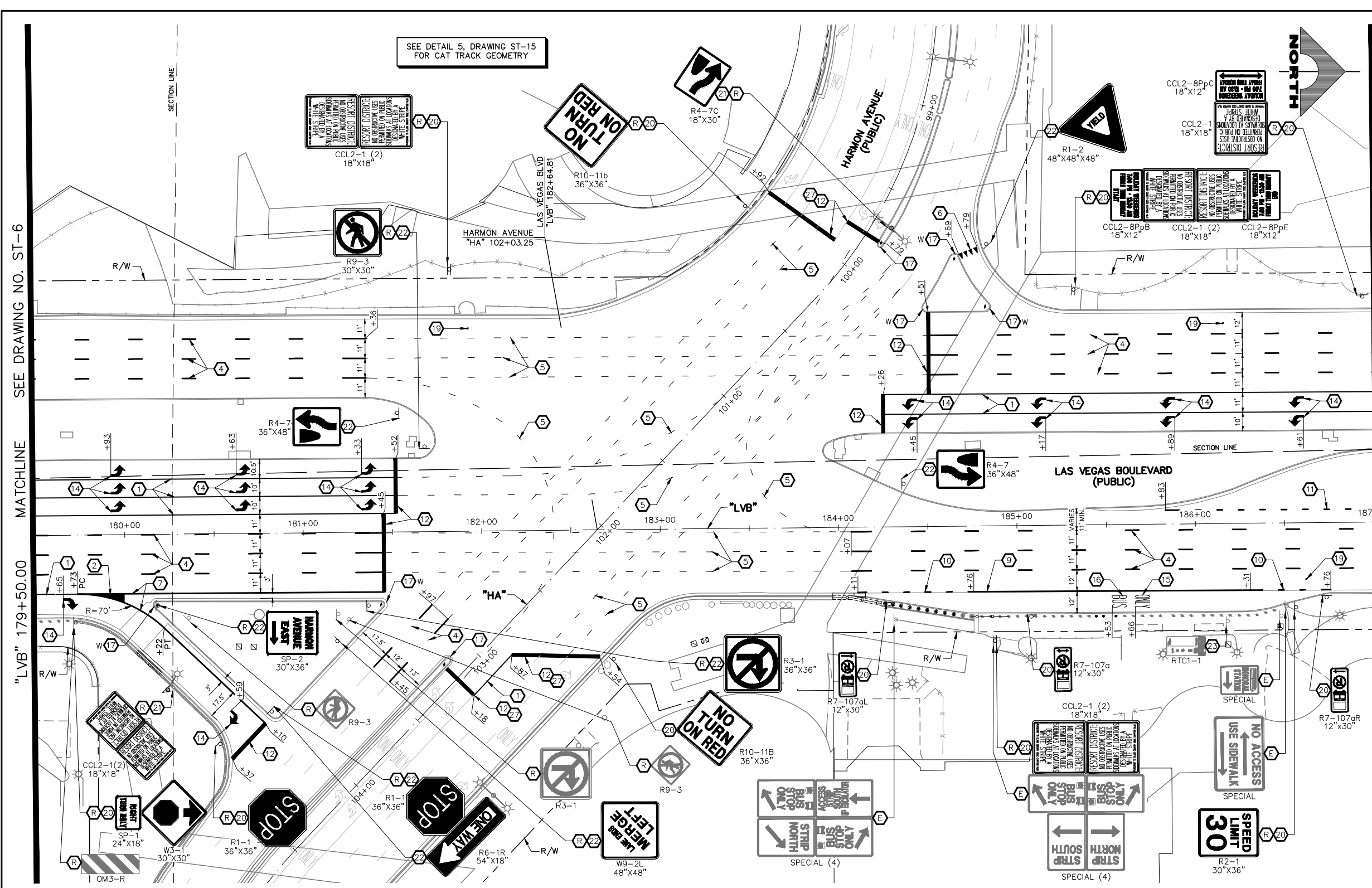
GCV ENGINEERS SURVEYORS

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

DRAWING NO. **ST-6**

SHT. 158 OF 169

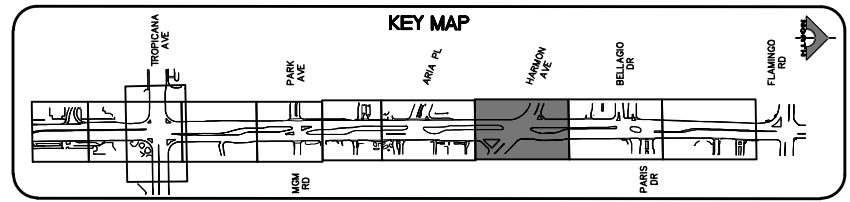
L-2304



- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
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MATCHLINE SEE DRAWING NO. ST-6

MATCHLINE SEE DRAWING NO. ST-8



AVOID HITTING OVERHEAD POWER LINES (75' CLEARANCE)

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FRESH AND ANTERIOR SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call **811**

OR

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"LVB" 179+50.00 TO "LVB" 187+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF DRAWN BY: TAA

DESIGNED BY: DSH CHECKED BY: JRT

APPROVED BY: _____

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

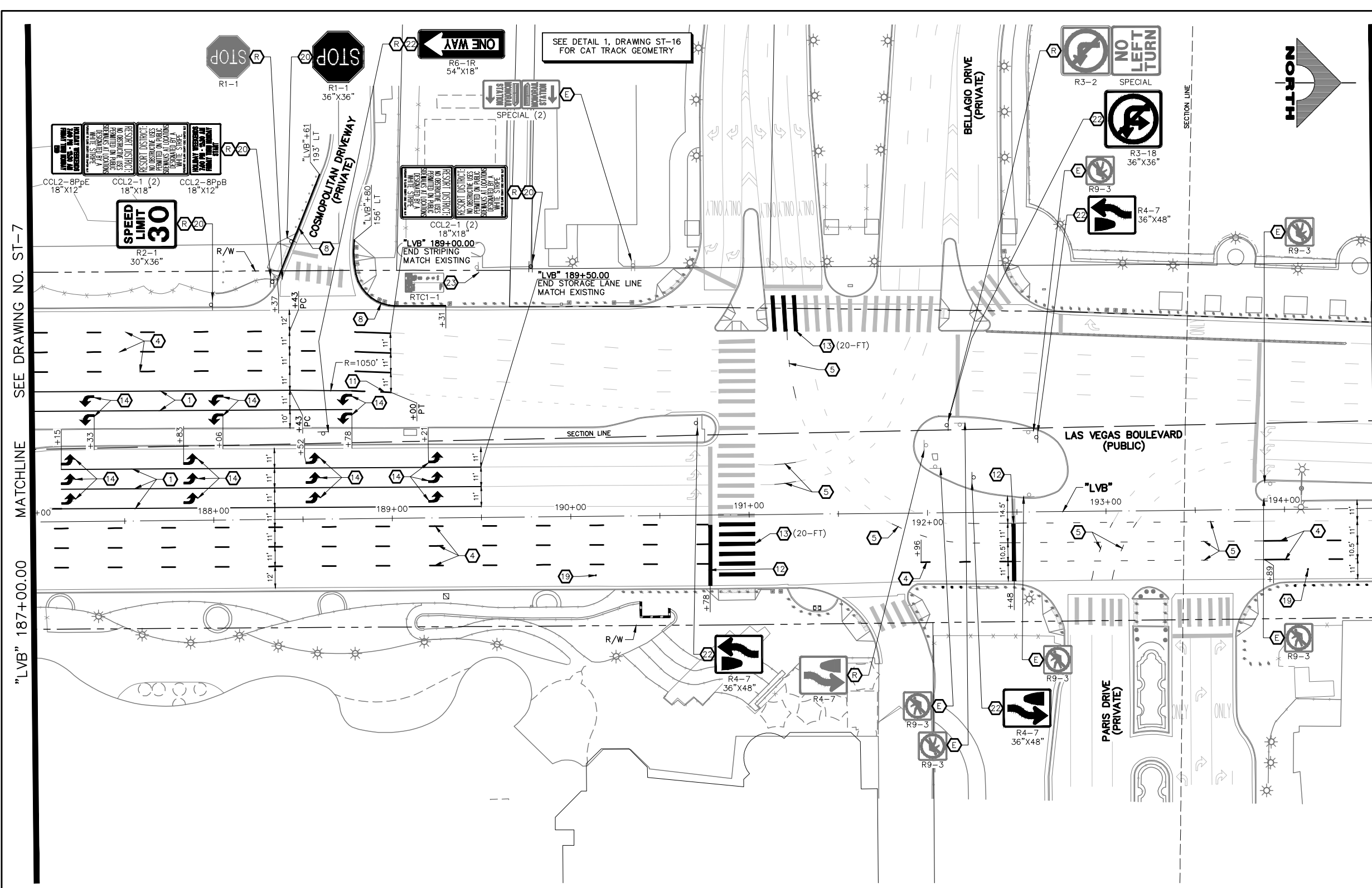
ST-7

SHT. 159 OF 169

L-2304

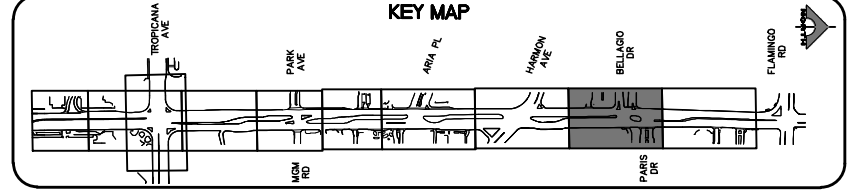
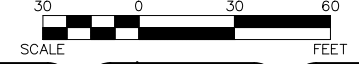
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T: 702.804.2000
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gcvengineering.com

F:\Projects\500\500-897-LV-EF-DWG\Production\LV_EF_ST_Sheets.dwg



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 - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
 - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
 - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
 - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
 - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
 - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
 - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
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 - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
 - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
 - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
 - 20 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)
 - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
 - 22 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)
 - 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
 - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
 - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
 - 26 4-INCH SOLID YELLOW LINE (PPM)
 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - E EXISTING SIGN(S) TO REMAIN
 - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 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.
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 7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FRESH AND ANTERIOR SYSTEM OF TRANSPORTATION

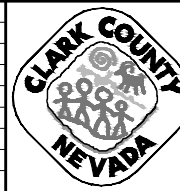
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"LVB" 187+00.00 TO "LVB" 194+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA SCALE: _____

DESIGNED BY: DSH CHECKED BY: JRT HORIZ: AS SHOWN

APPROVED BY: _____ VERT: NONE

GCV

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

DRAWING NO. ST-8

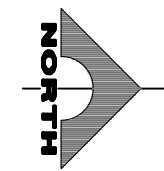
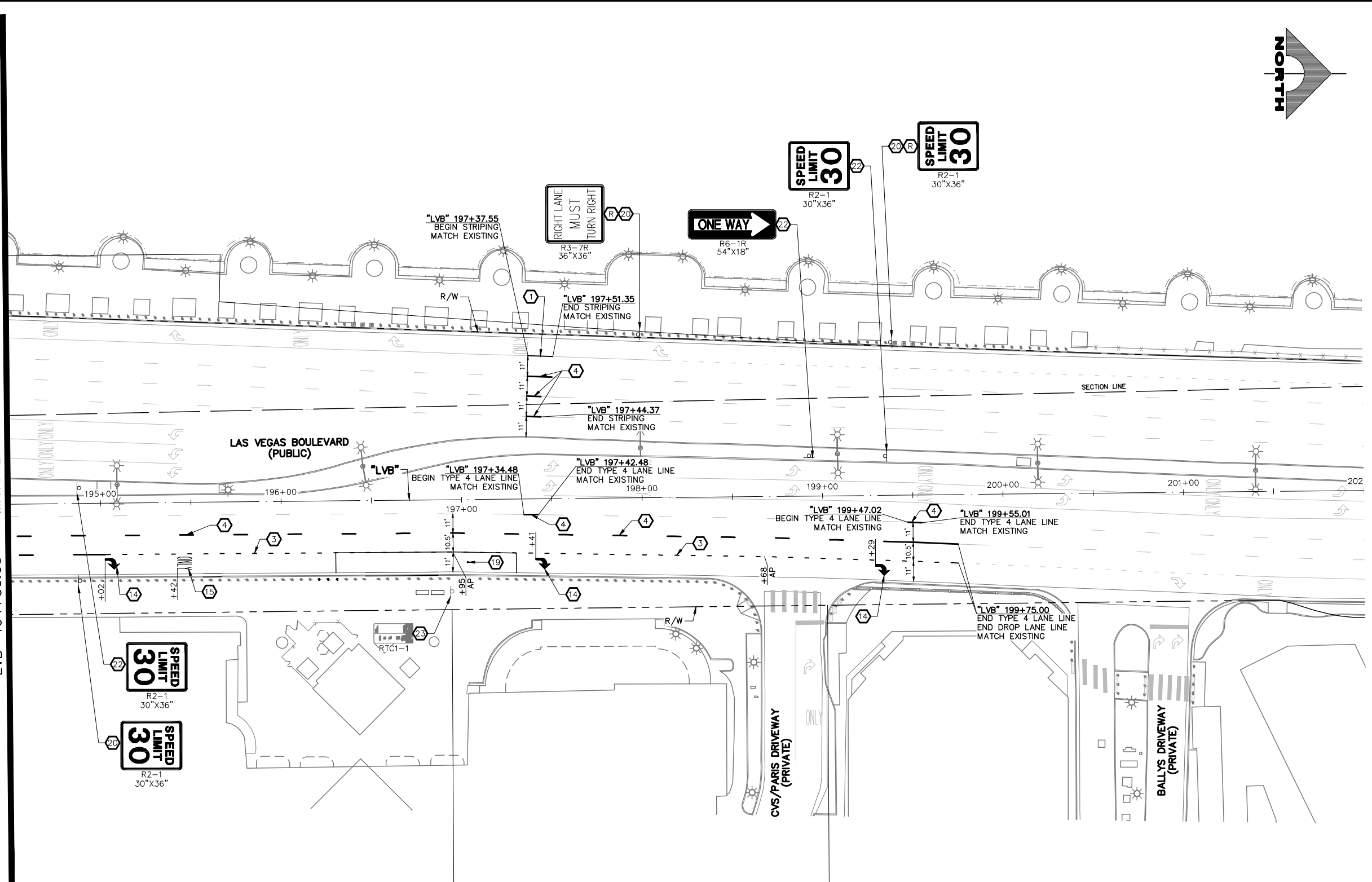
SHT. 160 OF 169

L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

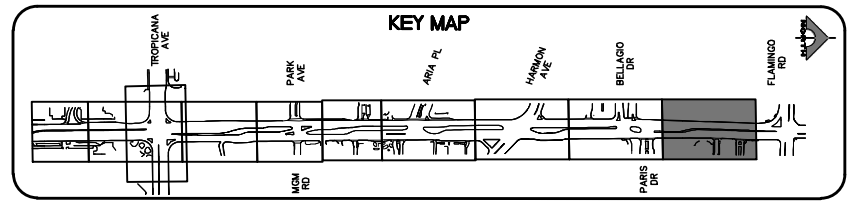
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"LVB" 194+50.00 MATCHLINE SEE DRAWING NO. ST-8



- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
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 - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
 - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
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 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - E EXISTING SIGN(S) TO REMAIN
 - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
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CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FRESHWATER AND METEORIC SYSTEMS OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR

1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"LVB" 194+50.00 TO "LVB" 202+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

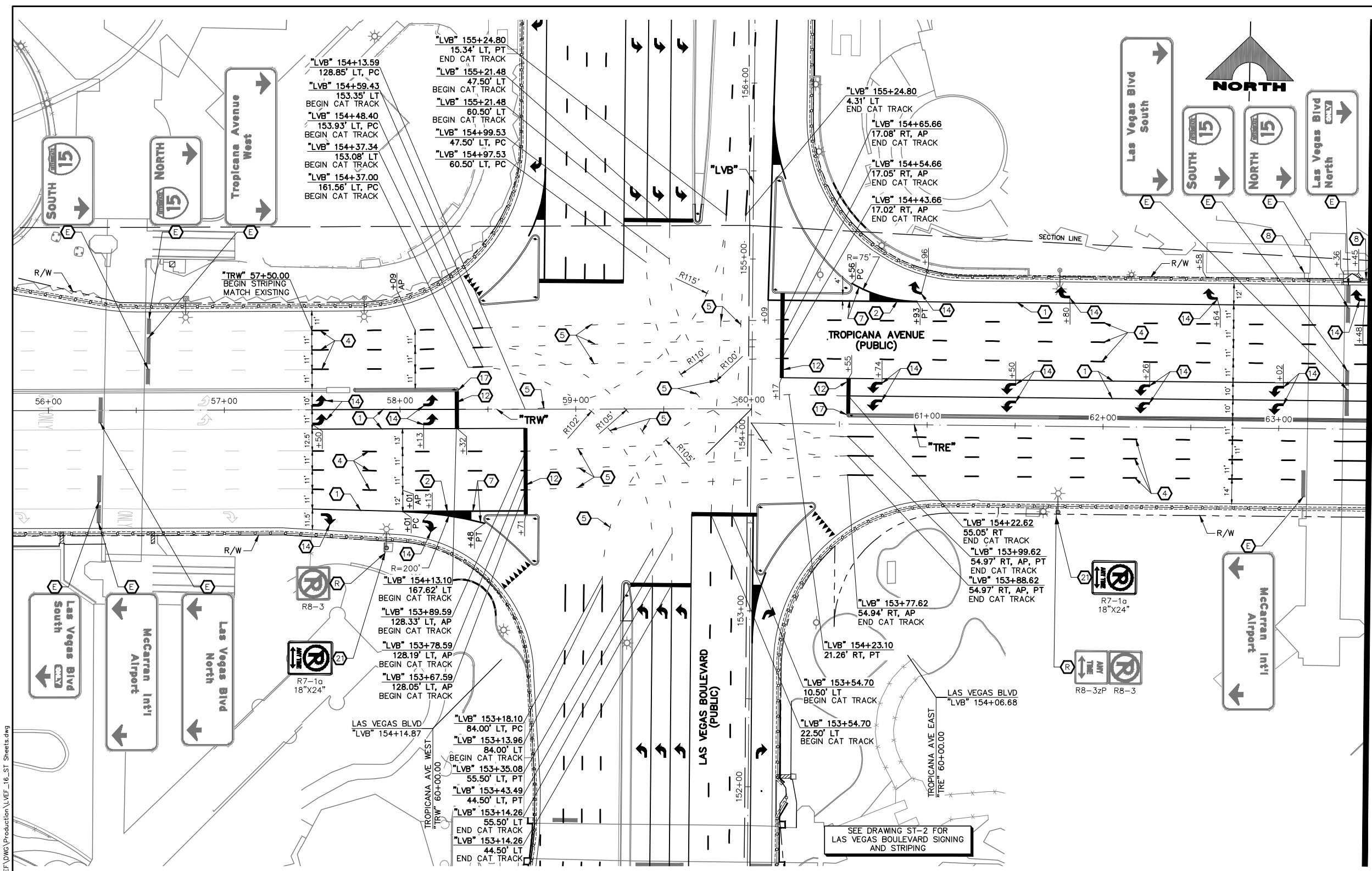
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 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK



DRAWING NO. **ST-9**
 SHT. 161 OF 169
 L-2304

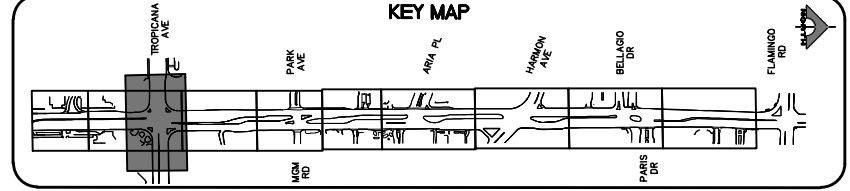
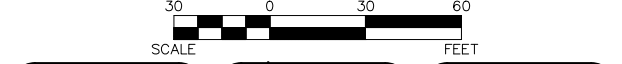
REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



- ### SIGNING AND STRIPING NOTES
- STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
 - CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
 - WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
 - 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
 - 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
 - 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
 - 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
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 - WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
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 - INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
 - 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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 - 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)
 - REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
 - INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
 - REMOVE AND RESET SIGN ON NEW SUPPORT (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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 - REMOVE EXISTING STRIPING/MARKINGS
 - EXISTING SIGN(S) TO REMAIN
 - REMOVE AND SALVAGE SIGN(S)

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AVOID HITTING OVERHEAD POWER LINES (15' CLEARANCE)

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

FAST

Call before you UnderGround.

1-702-901-8400

FRESH AIR AND WATER SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call **811**

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"TRW" 56+00.00 TO "TRE" 63+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF

DESIGNED BY: DSH

APPROVED BY: _____

DRAWN BY: TAA

CHECKED BY: JRT

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

ST-10

SHT. 162 OF 169

L-2304

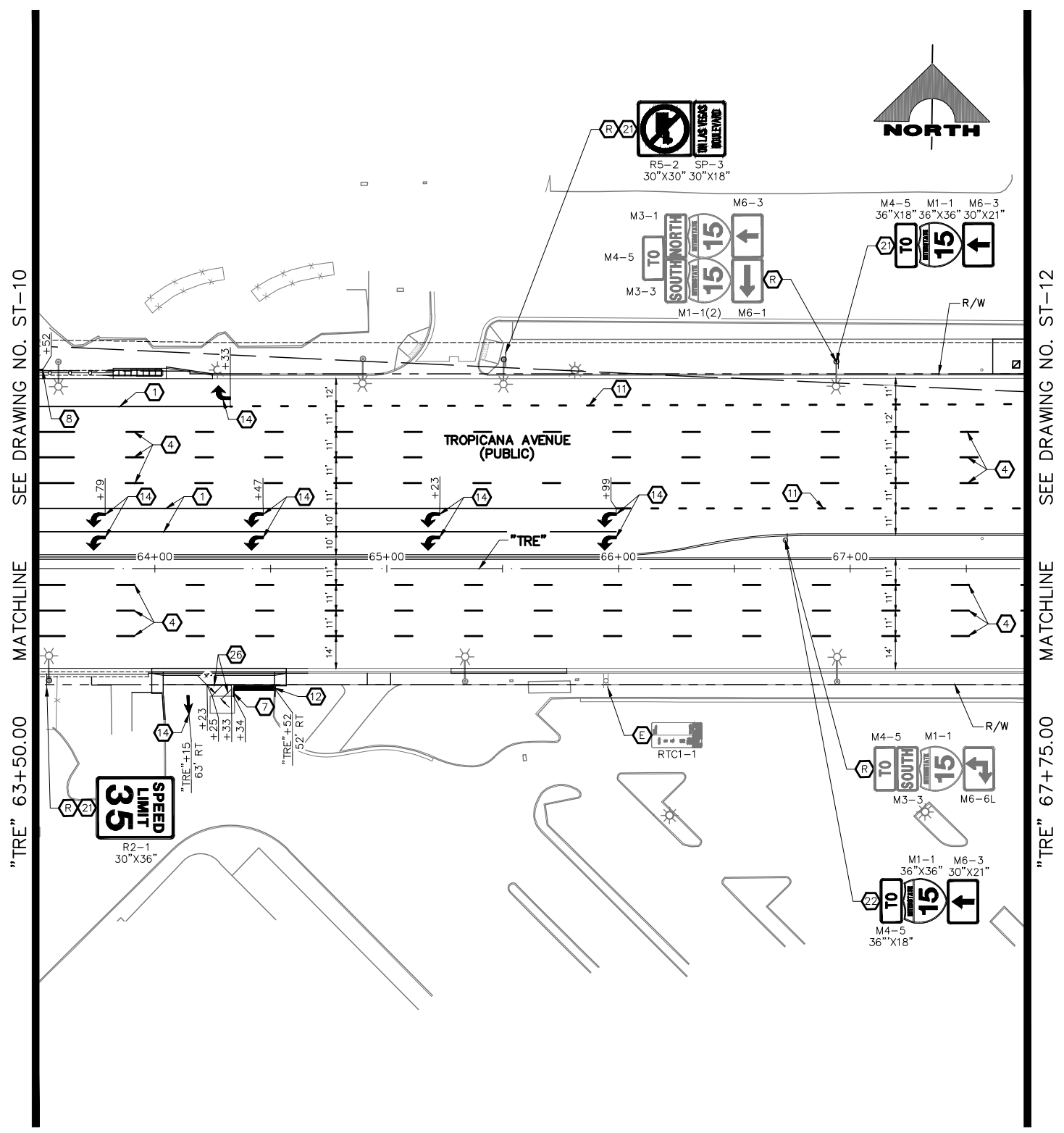
GCV ENGINEERS SURVEYORS

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

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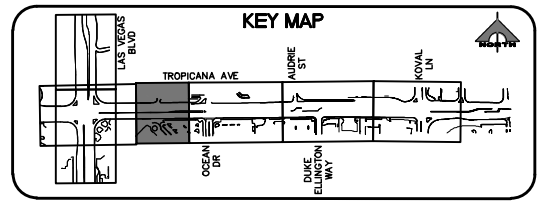
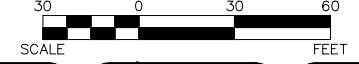
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
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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.

1-702-901-8400

FRESHMAN AND ASSOCIATES SYSTEMS OF TRANSPORTATION

Call before you Dig

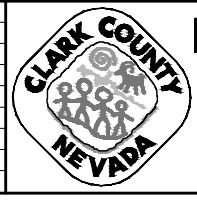
Avoid cutting underground utility lines. It's costly.

Call 811

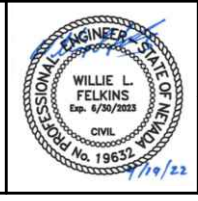
OR

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
"TRE" 63+50.00 TO "TRE" 67+75.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: JAP
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

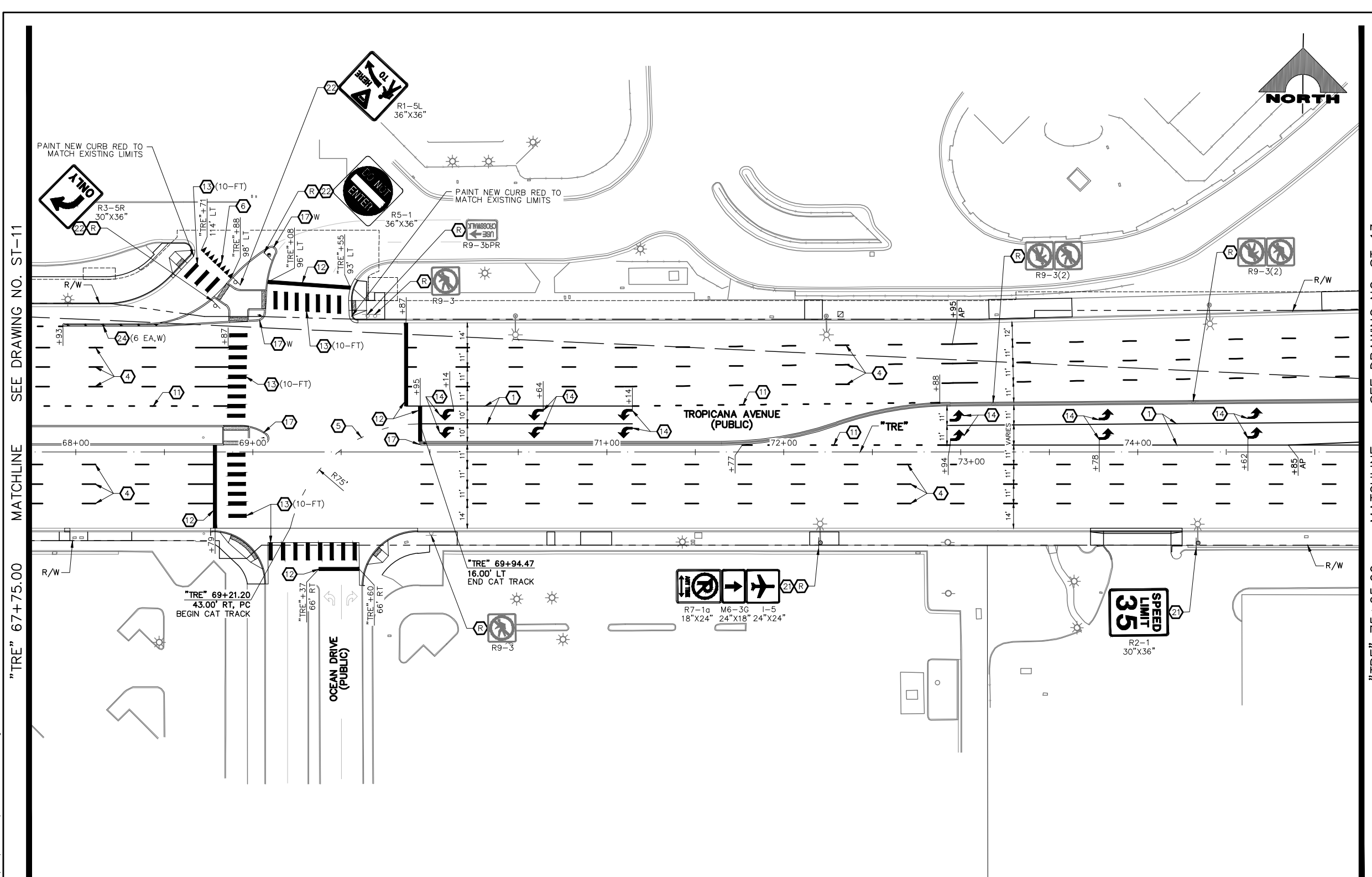
GCV ENGINEERS SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

DRAWING NO. **ST-11**
 SHT. 163 OF 169
 L-2304

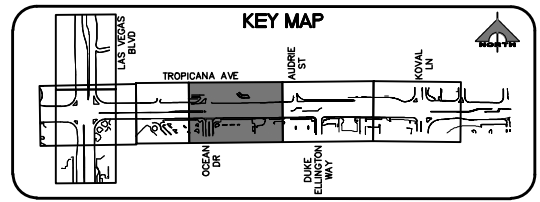
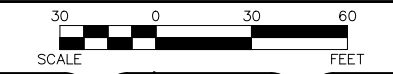
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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 - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
 - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
 - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
 - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
 - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
 - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
 - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
 - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
 - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
 - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
 - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
 - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
 - 20 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)
 - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
 - 22 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)
 - 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
 - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
 - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
 - 26 4-INCH SOLID YELLOW LINE (PPM)
 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - E EXISTING SIGN(S) TO REMAIN
 - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 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.
 6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
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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 UnderGround.

1-702-901-8400

FRESH AND ANTIWEAR SYSTEM OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING PLAN

"TRE" 67+75.00 TO "TRE" 75+25.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: JAP SCALE: _____

DESIGNED BY: DSH CHECKED BY: WLF HORIZ: AS SHOWN

APPROVED BY: _____ VERT: NONE

GCV

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

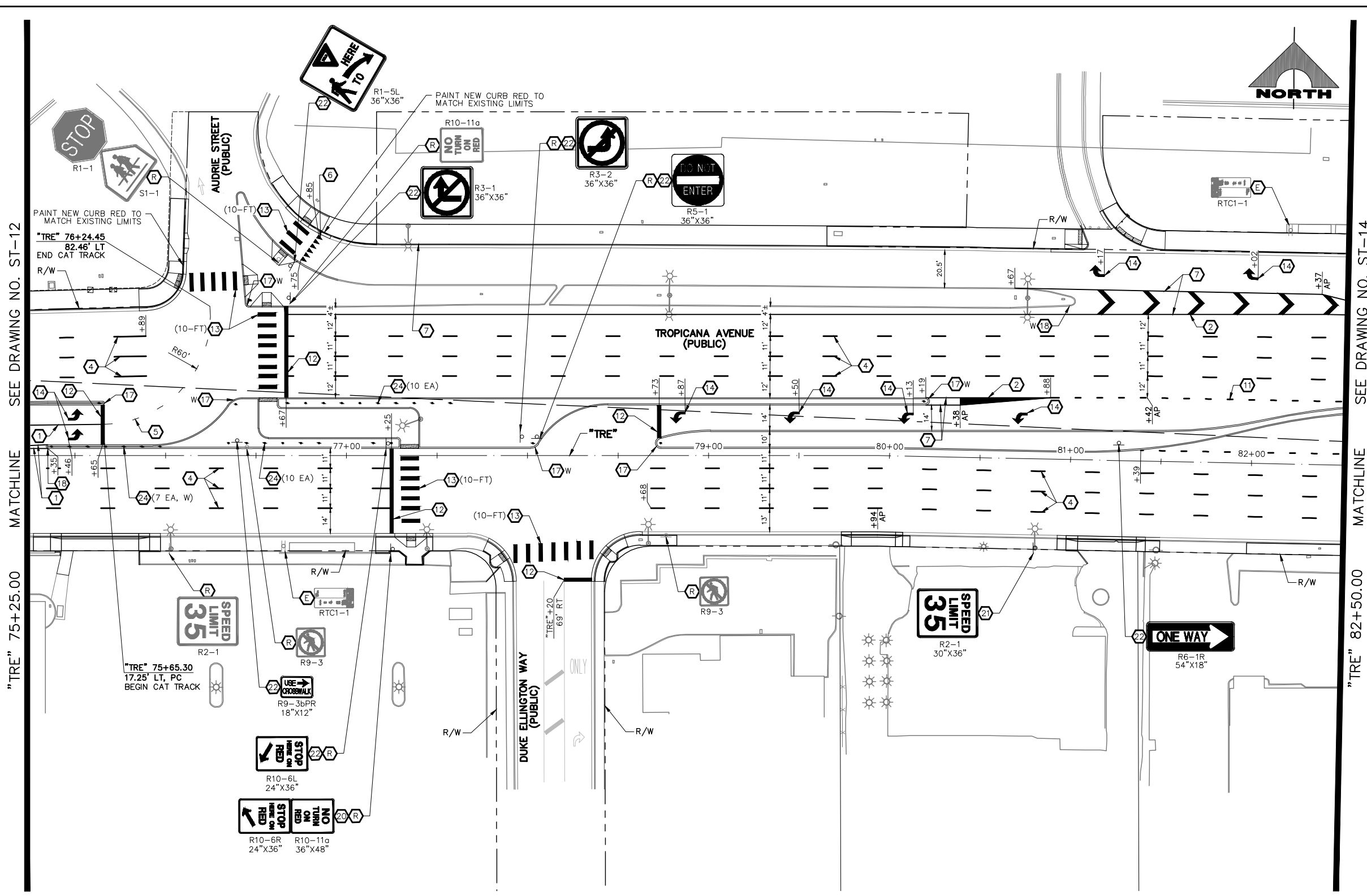
FIELD BOOK: _____ DRAWING NO. ST-12

SHT. 164 OF 169

L-2304

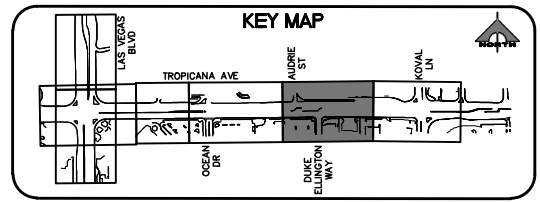
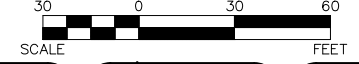
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_16A_ST_Sheets.dwg



- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
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 - R REMOVE AND SALVAGE SIGN(S)

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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.

1-702-901-8400

FRESHMAN AND ASSOCIATES SYSTEM OF TRANSPORTATION

Call before you Dig

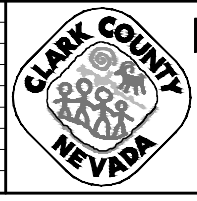
Avoid cutting underground utility lines. It's costly.

Call 811

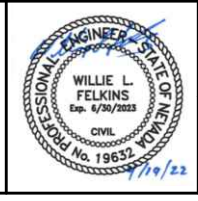
OR

1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
"TRE" 75+25.00 TO "TRE" 82+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: JAP
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

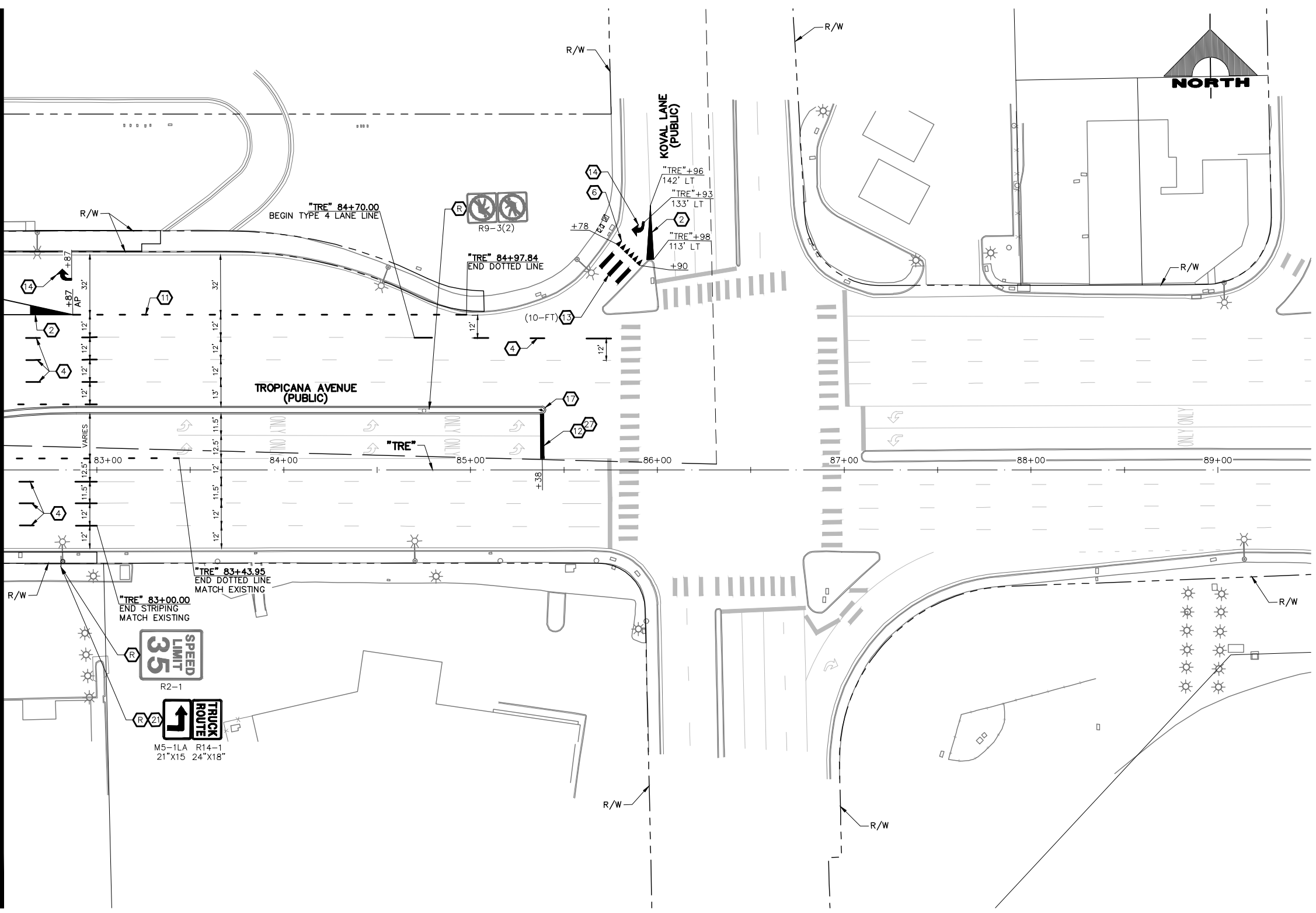
GCV ENGINEERS & SURVEYORS
 1555 S. RAINBOW BLVD.
 LAS VEGAS, NV 89146
 T: 702.804.2000
 F: 702.804.2299
 gcvengineering.com

DRAWING NO. **ST-13**
 SHT. 165 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

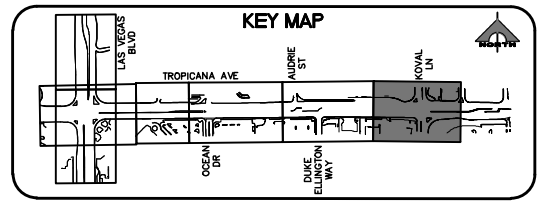
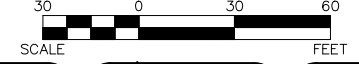
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SEE DRAWING NO. ST-13
MATCHLINE
"TRE" 82+50.00



- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
 - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
 - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
 - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
 - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
 - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
 - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
 - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
 - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
 - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
 - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
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 - 20 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)
 - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
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 - 27 REMOVE EXISTING STRIPING/MARKINGS
 - E EXISTING SIGN(S) TO REMAIN
 - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
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 2. SEE GENERAL NOTES ON DRAWING NO. G-4.
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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.

1-702-901-8400

FRESH AND ANTERIOR SYSTEM OF TRANSPORTATION

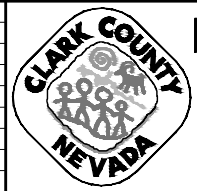
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD
SIGNING AND STRIPING PLAN
"TRE" 82+50.00 TO "TRE" 89+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: WLF
 APPROVED BY: _____

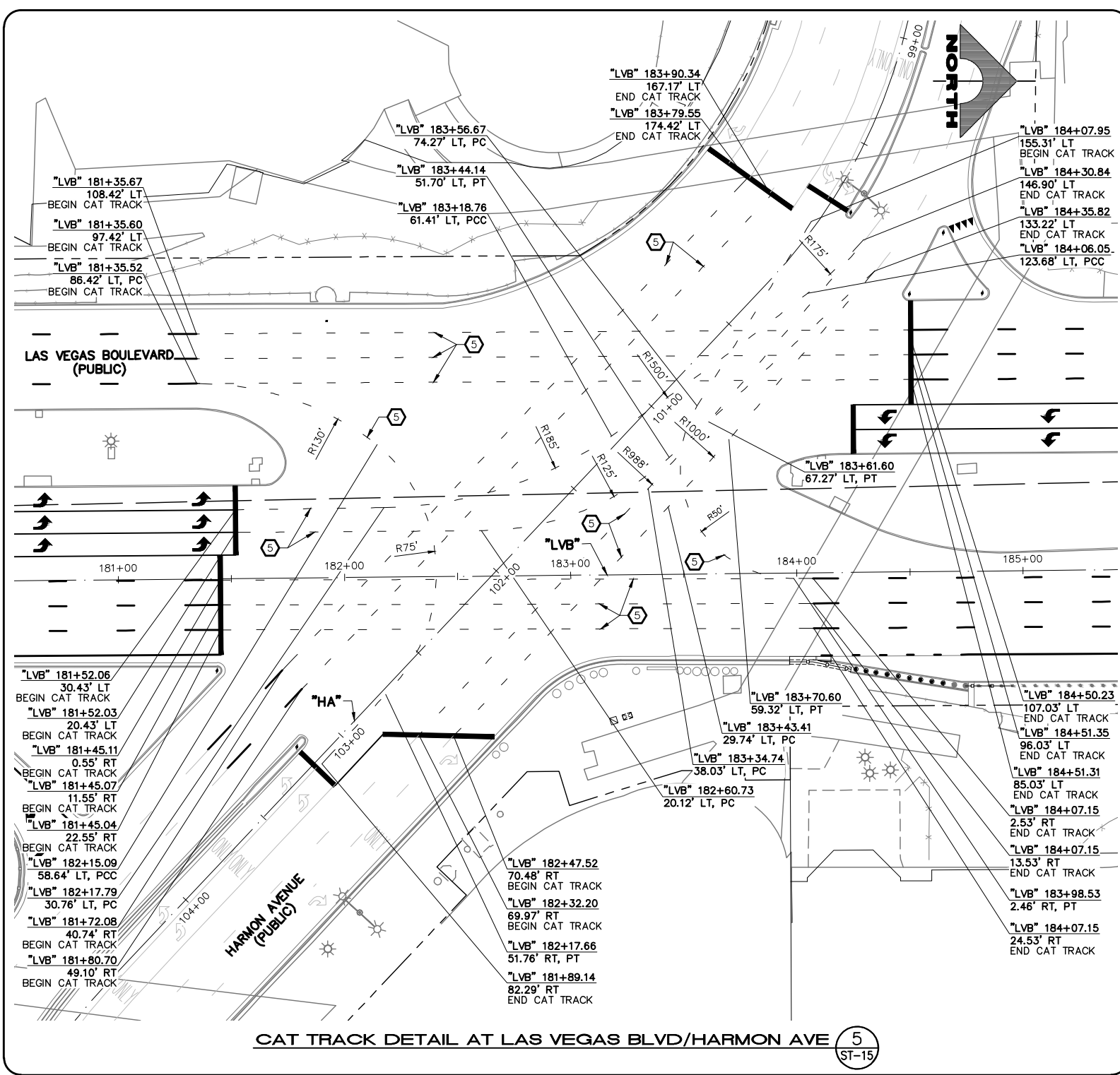
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 VERT: NONE
 FIELD BOOK: _____



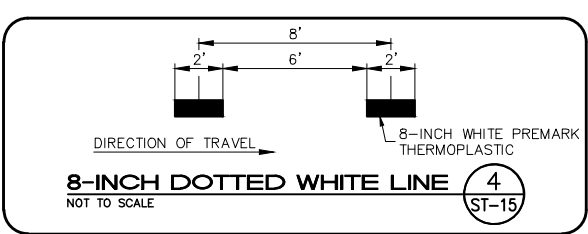
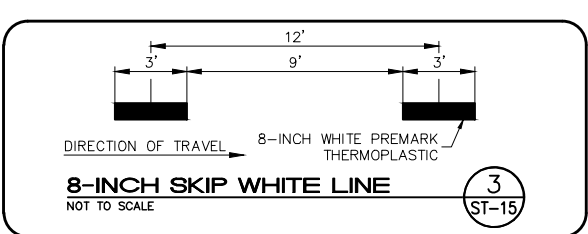
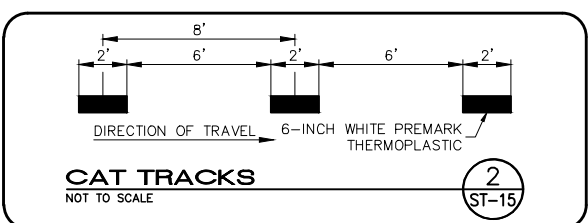
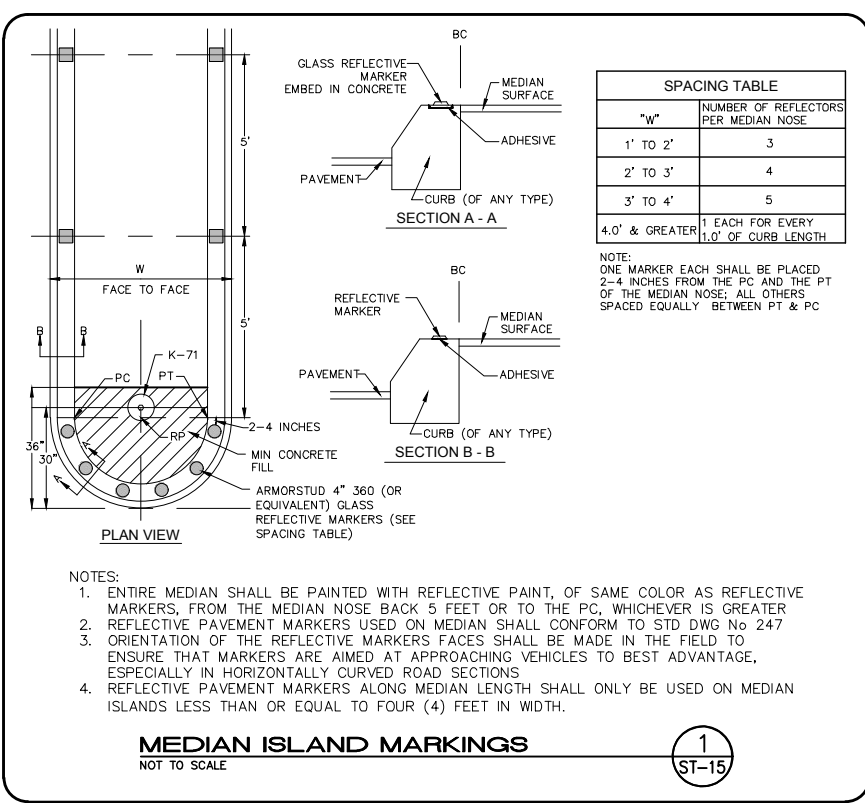
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 SHT. 166 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)
 BID NO.: 605978-21

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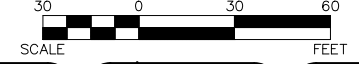


CAT TRACK DETAIL AT LAS VEGAS BLVD/HARMON AVE (5) ST-15



- SIGNING AND STRIPING NOTES**
- STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
 - LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
 - DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
 - TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
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 - 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
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 - 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
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OR 1-800-642-2444

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: DSH CHECKED BY: JRT
 APPROVED BY: _____

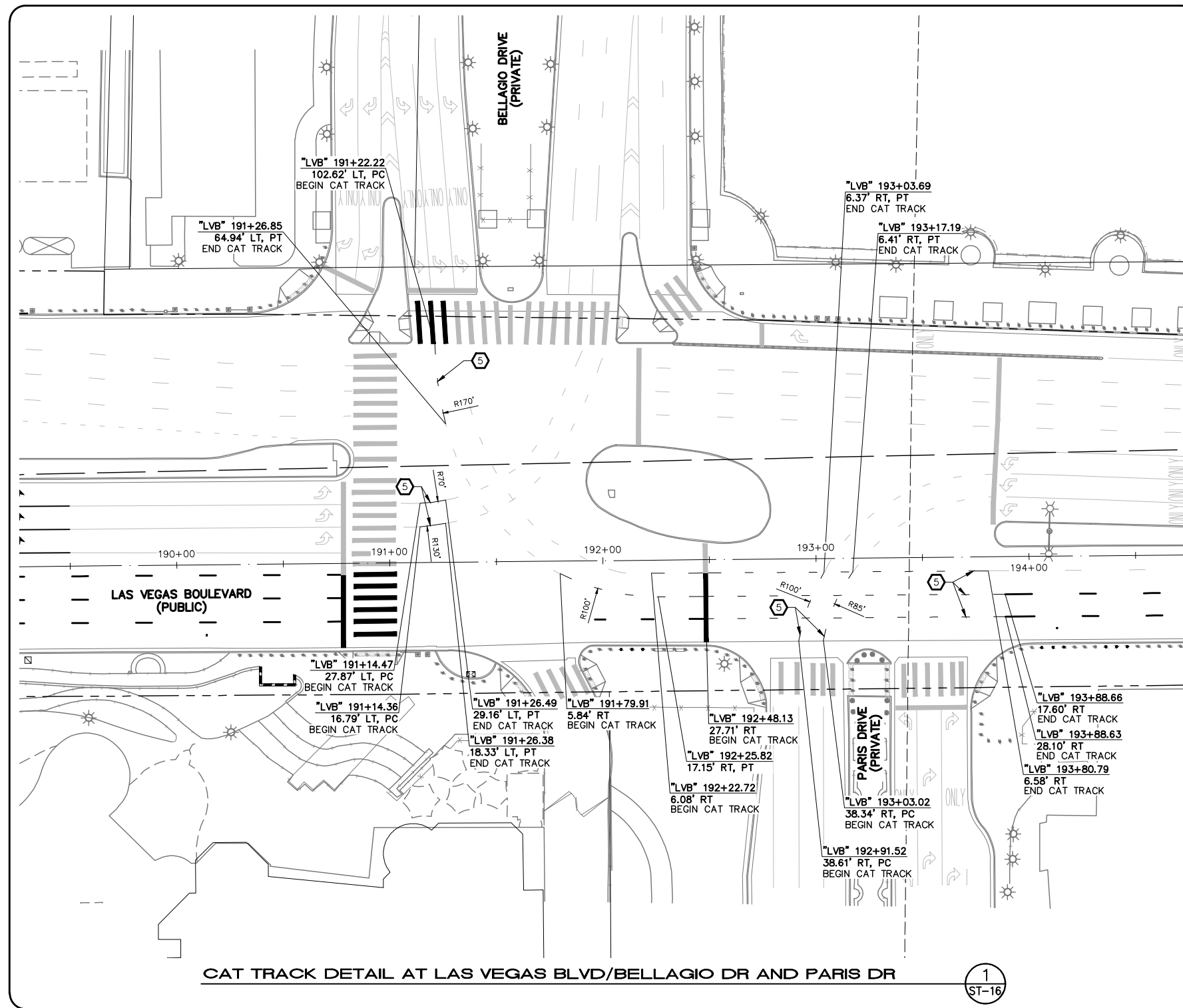
SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

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

DRAWING NO. **ST-15**
 SHT. 167 OF 169
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

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CAT TRACK DETAIL AT LAS VEGAS BLVD/BELLAGIO DR AND PARIS DR

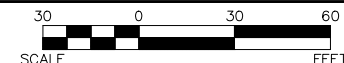
1
ST-16

SIGNING AND STRIPING NOTES

- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
- 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
- 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
- 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
- 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
- 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
- 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
- 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
- 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
- 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
- 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
- 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
- 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
- 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
- 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
- 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
- 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
- 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
- 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
- 20 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)
- 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
- 22 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)
- 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
- 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
- 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
- 26 4-INCH SOLID YELLOW LINE (PPM)
- 27 REMOVE EXISTING STRIPING/MARKINGS
- E EXISTING SIGN(S) TO REMAIN
- R REMOVE AND SALVAGE SIGN(S)

TRAFFIC NOTES

1. SEE SIGN DETAILS ON DRAWING ST-17 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.
6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
7. 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 UnderGround.

1-702-901-8400

FRESHMAN AND ASSOCIATES
SYSTEMS OF TRANSPORTATION

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR

1-800-642-2444



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGNING AND STRIPING DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF 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

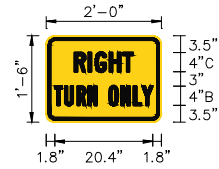
SCALE: _____
 HORIZ: AS SHOWN
 VERT: NONE
 FIELD BOOK: _____

DRAWING NO. **ST-16**
 SHT. 168 OF 169
 L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21

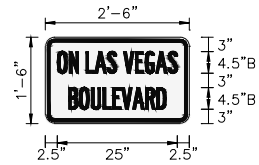
SIGN NUMBER SP-1
 QUANTITY 1
 WIDTH 2'-0"
 HEIGHT 1'-6"
 BORDER WIDTH 0.625" (INSET=0.375")
 BORDER RADII 1.5"
 BACKGROUND COLOR YELLOW
 LEGEND & BORDER COLOR BLACK
 STATION(S) "LVB" 179+71.8



SIGN NUMBER SP-2
 QUANTITY 1
 WIDTH 2'-6"
 HEIGHT 3'-0"
 BORDER WIDTH 0.625"
 BORDER RADII 1.5"
 BACKGROUND COLOR GREEN
 LEGEND & BORDER COLOR WHITE
 STATION(S) "LVB" 180+18.1



SIGN NUMBER SP-3
 QUANTITY 1
 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) "TRE" 65+50.4



F:\Projects\500\500-897-LV-EF\DWG\Production\VEF_16_ST_Sheets.dwg

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

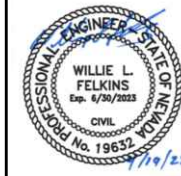
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

SIGN DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



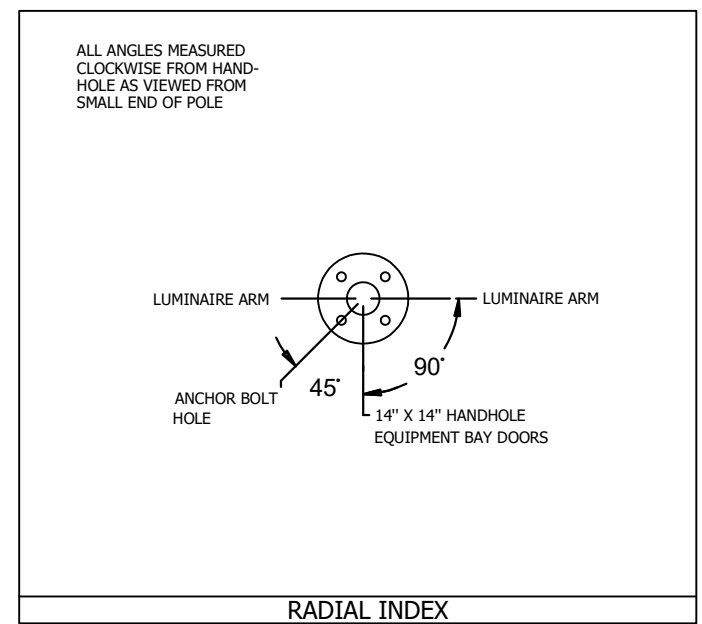
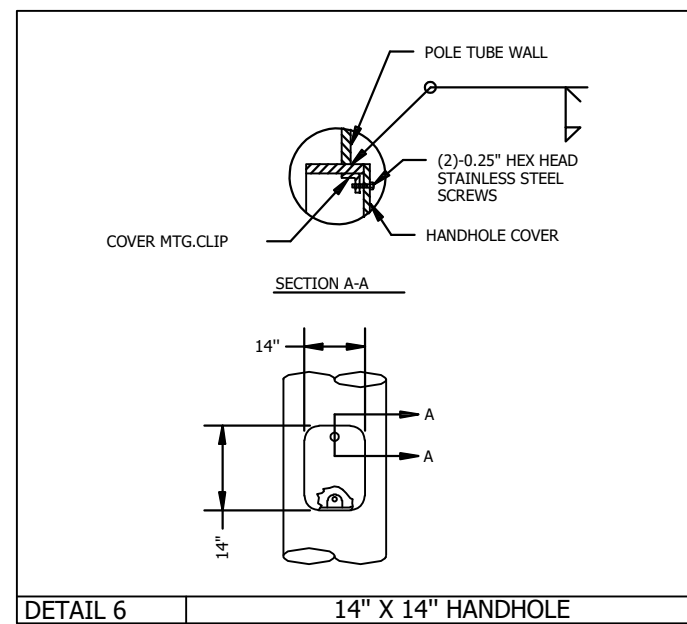
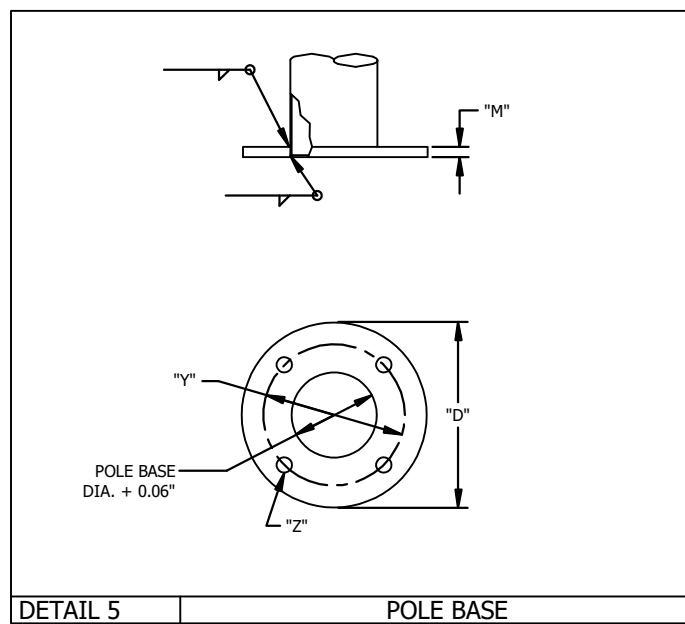
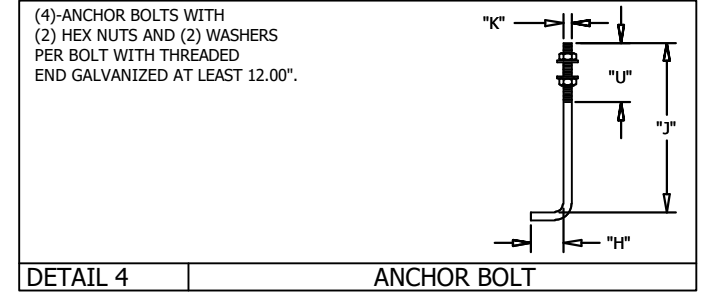
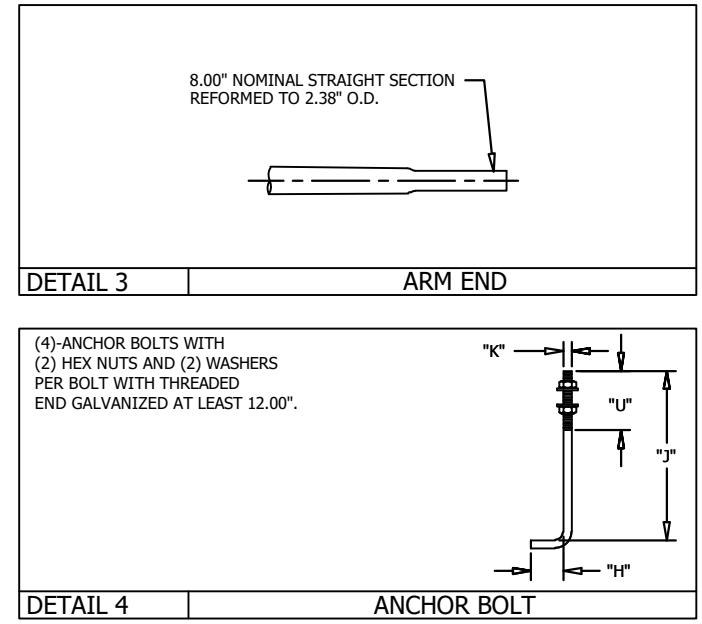
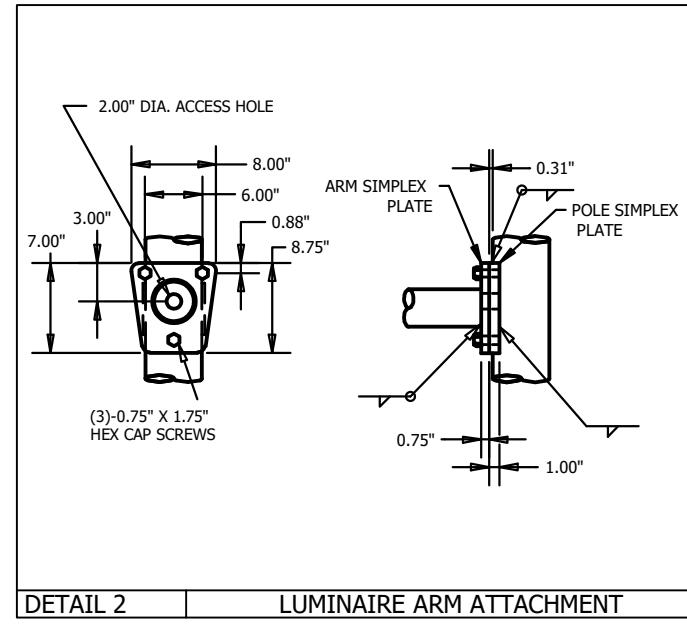
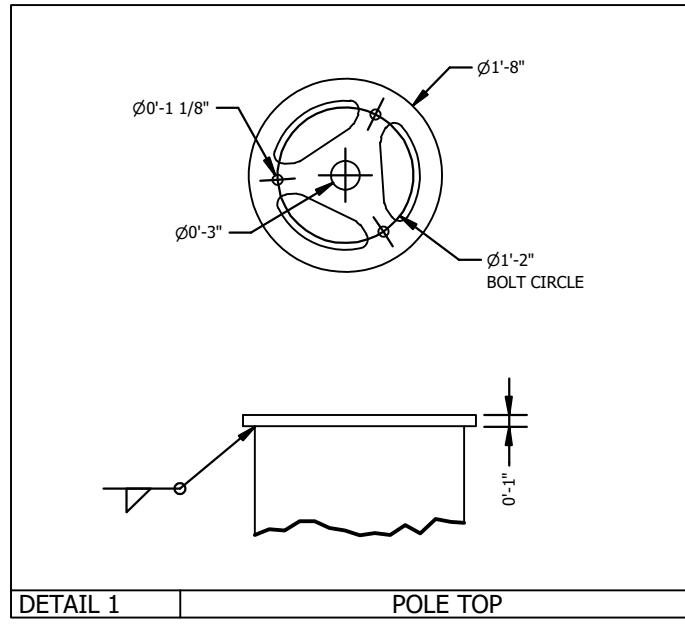
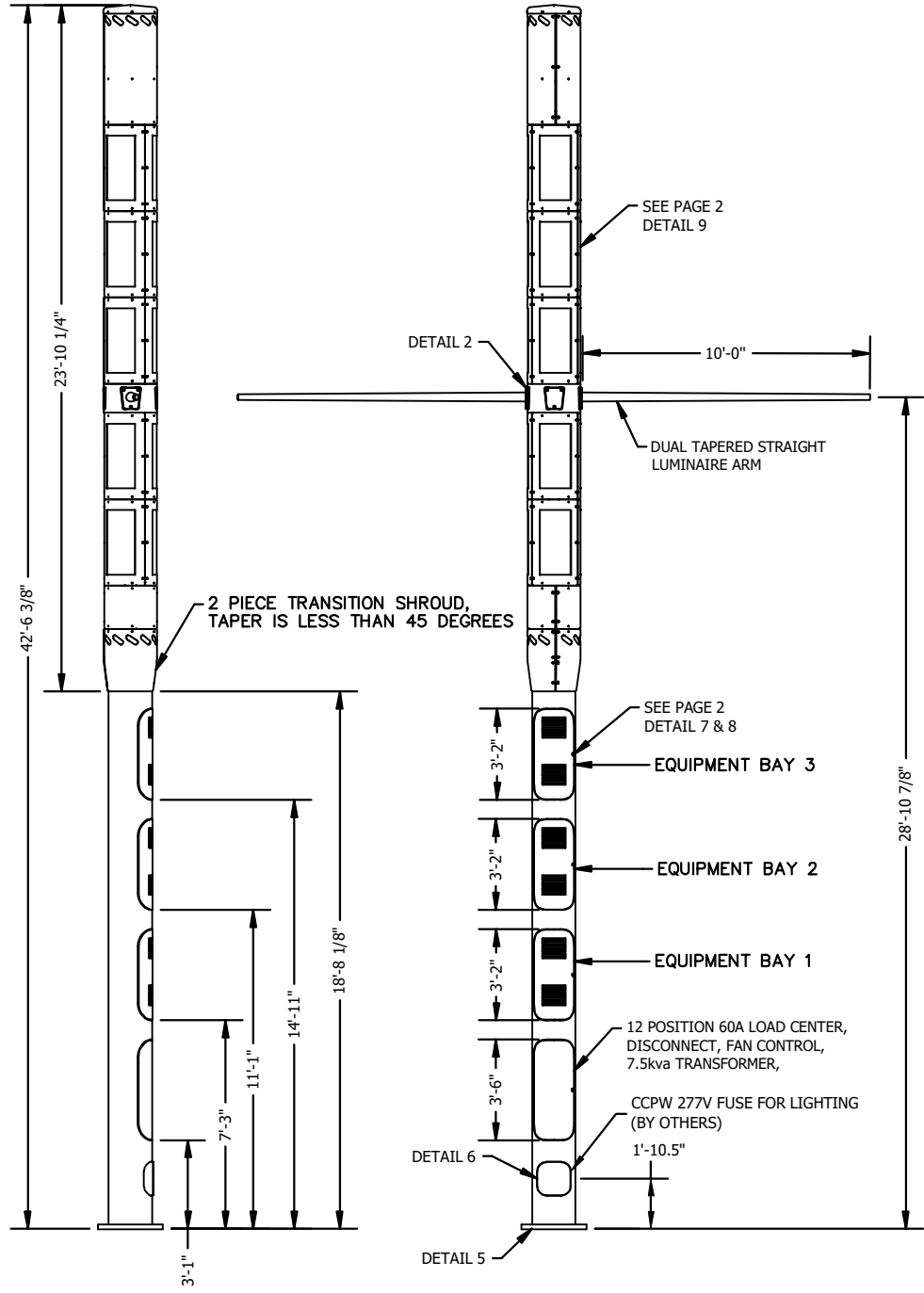
PROJECT No: 500-897-LV-EF DRAWN BY: TAA
 DESIGNED BY: TAA CHECKED BY: JRT
 APPROVED BY: _____

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

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

DRAWING NO.
ST-17
 SHT. 169 OF 169
 L-2304

BID NO.: 605978-21



POLE DESIGN TO:
AASHTO-2015-105MPH WIND VELOCITY

FINISH
BASE COAT: HOT DIP GALVANIZING TO ASTM:A123

FINISH COAT: TGIC OR URETHANE POLYESTER POWDER W/ANTI-GRAFITTI CLEAR COAT

COLOR: RAL 6009 (GREEN)

VALMONT SPEC: F-664

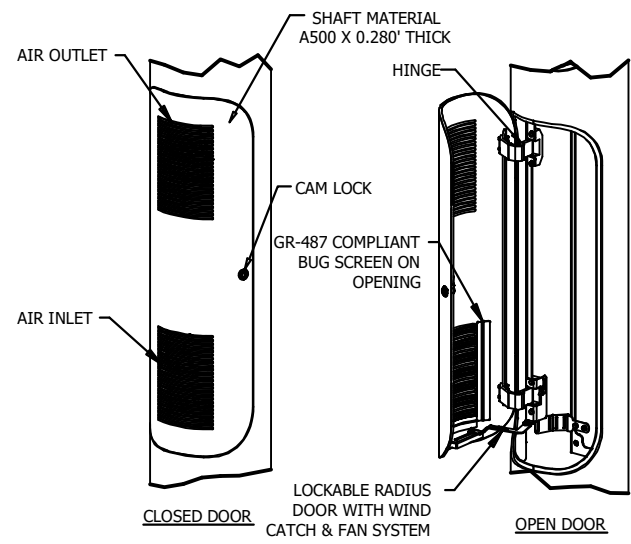
MATERIAL DATA		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE TUBE	A500 GR B	42
POLE BASE	A36	36
ANCHOR BOLTS	F1554 OR GR. 55	55
GALVANIZING - HARDWARE	A153	

POLE DATA																	
ITEM	QTY	POLE TUBE				BASE PLATE				LUMINAIRE ARM				ANCHOR BOLT			
		BASE DIA. (IN)	TOP DIA (IN)	POLE HEIGHT (FT)	GAUGE OR THK. (IN)	ROUND "D" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE/SLOT "Z" (IN)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE OR THICK (IN)	LENGTH (FT)	DIA "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)
1	1	18.00	18.00	21.00	0.375	27.00	23.00	2.00	1.75	3.86	2.40	0.12	10.00	1.50	54.00	6.00	8.00



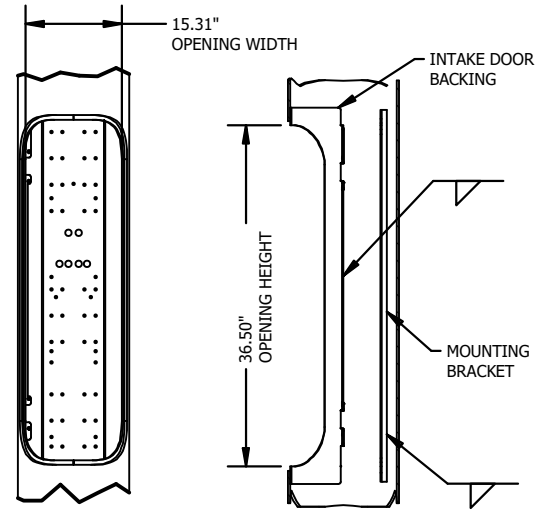
NV expire 12/31/21
Date Signed: 2/23/21

B	AAH 02/15/21	AAH 02/15/21	REVISED NOTES FOR EQUIPMENT	SOLD TO:	JOB	TYPE 5 - SMALL CELL	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.		ORDER NUMBER:	456863-P3
A	AAH 01/29/21	AAH 02/01/21	INCLUDED ADAPTER PLATE	SHIP TO:	CLARK COUNTY, NV	PAGE NUMBER:			1 OF 2	
RS8	01/14/21	AAH 01/19/21		P.O. #:		DRAWING NUMBER			NV456863P3	
REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION	AGENT:	TITLE	SMALL CELL STRUCTURE		Valley, NE 68064 (402) 359-2201		B

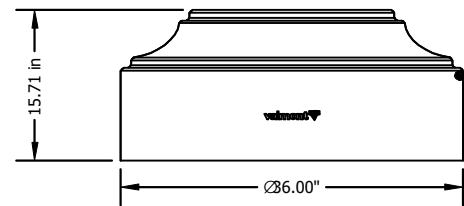


POLE & SHROUD EQUIPMENT BAYS TO MEET GR487 STANDARDS FOR THERMAL PERFORMANCE. BAYS NOT TO EXCEED 55 °C UNDER NORMAL OPERABLE CONDITION.

DETAIL 7 EQUIPMENT BAY



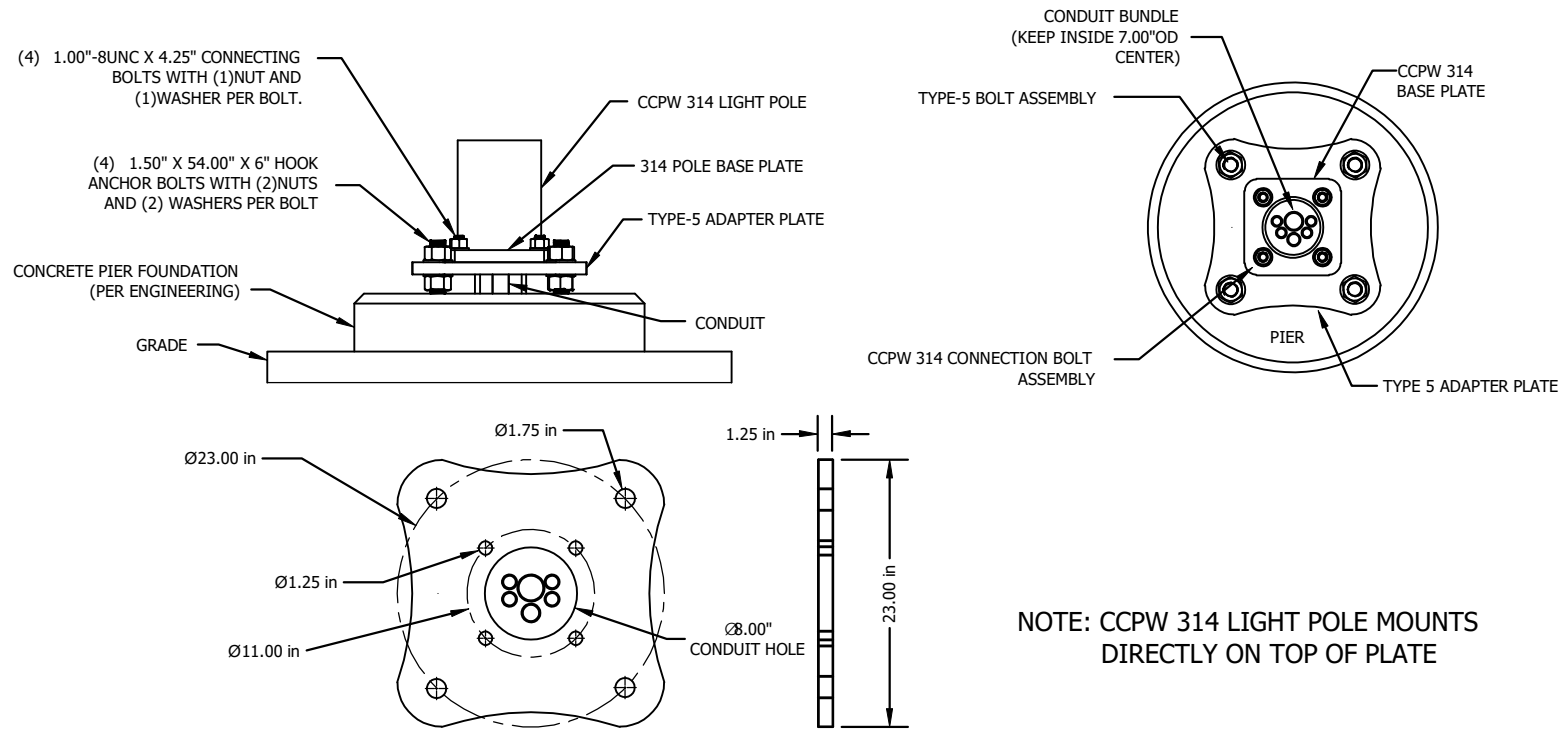
DETAIL 8 EQUIPMENT BAY



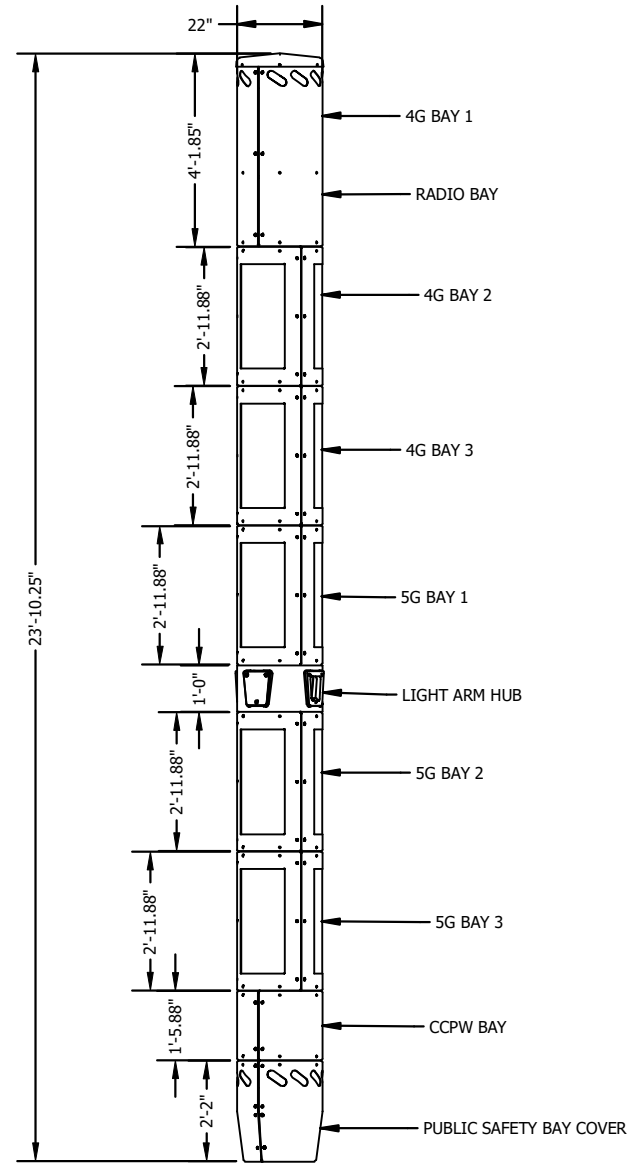
DETAIL 10 CL02AC BASE COVER

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

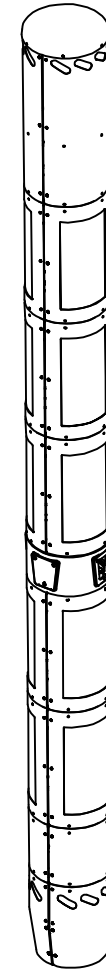
VIBRATION DISCLAIMER



ADAPTER PLATE - VALMONT TYPE 5 TO CCPW 314 LIGHT POLE



DETAIL 9 TOP SHROUD



JOB TYPE 5 - SMALL CELL
CLARK COUNTY, NV
TITLE SMALL CELL STRUCTURE

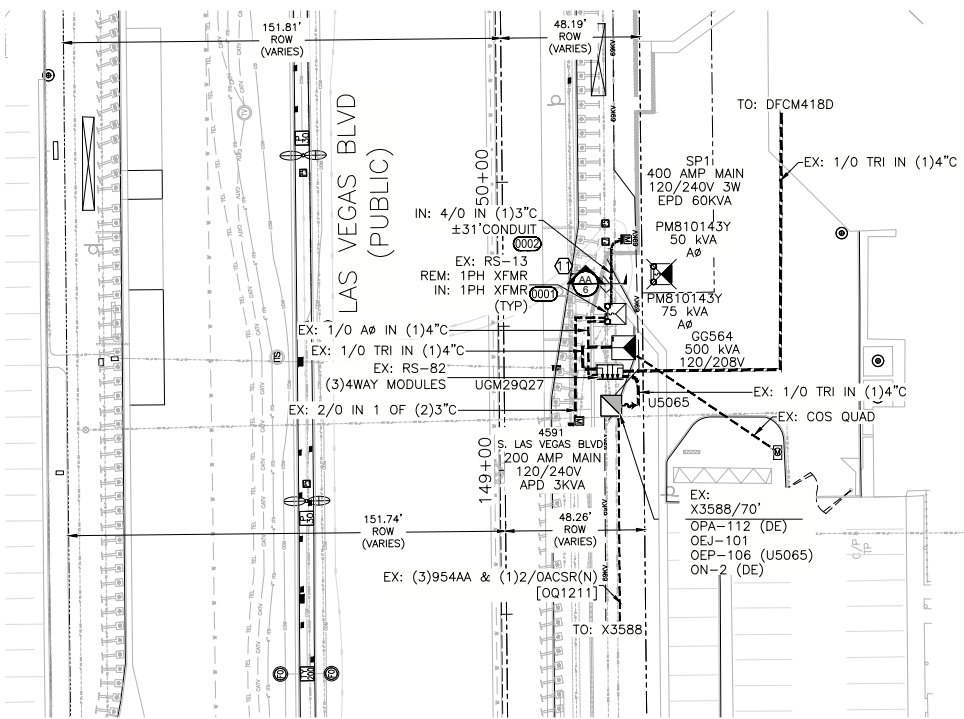
VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

valmont
Valley, NE 68064
(402) 359-2201

ORDER NUMBER: 456863-P3
PAGE NUMBER: 2 OF 2
DRAWING NUMBER: NV456863P3
REV: B

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



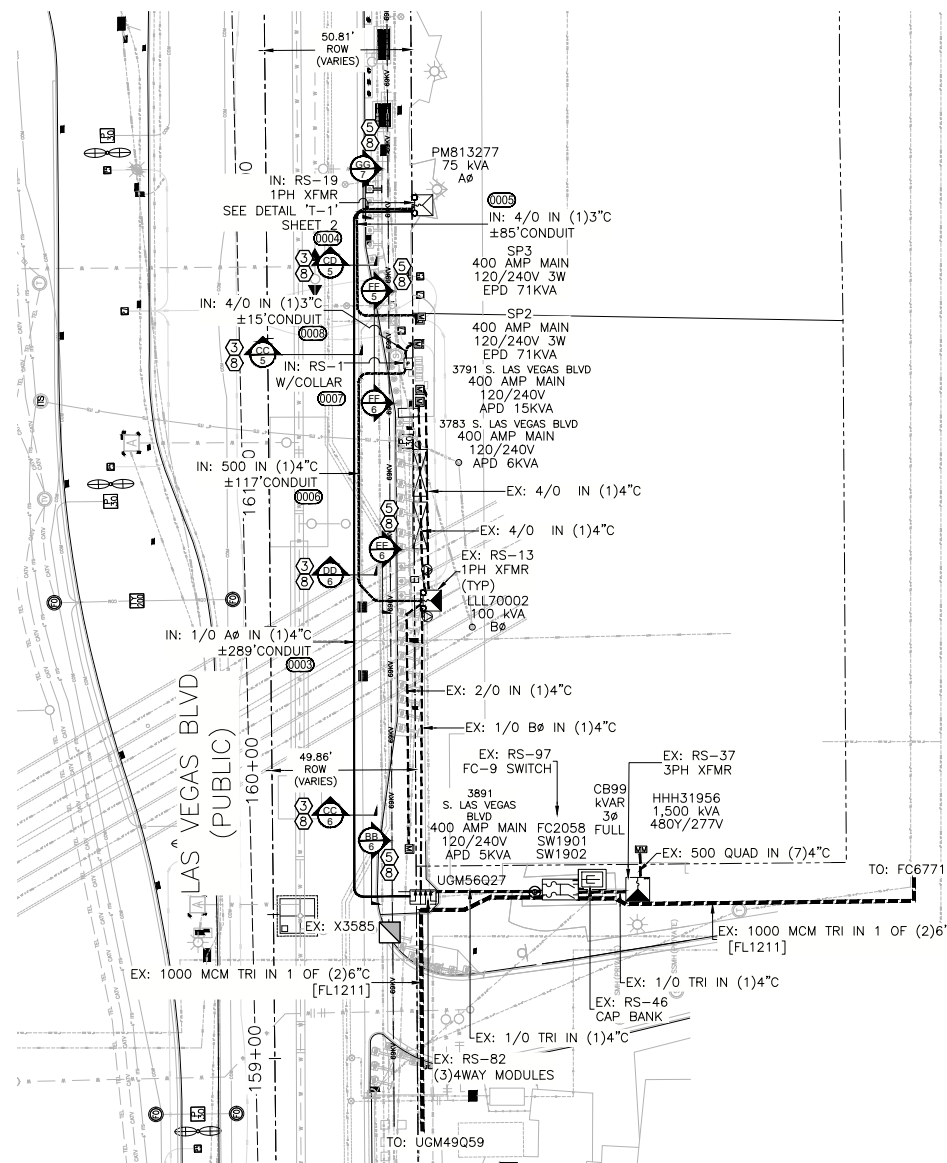
JOB SITE 1

TRANSFORMER CONNECTED LOAD			
TRANSFORMER #: PM810143Y			
APD	EPD	TOTAL	
A Ø	3	71	74

SOURCE	PH.	PROJECT CONNECTED LOAD (3Ø)			LOOP
		EX: KVA	ADDED KVA	TOTAL KVA	
U5065	A	550	25	575	RADIAL
UGM29027	B	500	0	500	---
001211	C	500	0	500	---

CUSTOMER OUTAGE REQUIRED!

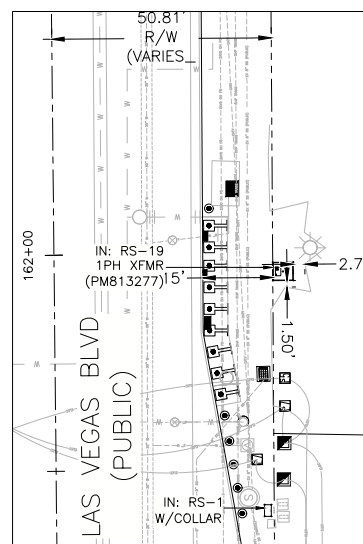
NIGHT TIME OUTAGE:
 ADDRESS(ES): METER QTY:
 4591 S. LAS VEGAS BLVD 1



JOB SITE 2

TRANSFORMER CONNECTED LOAD			
TRANSFORMER #: LLL70002			
APD	EPD	TOTAL	
B Ø	21	71	92

SOURCE	PH.	PROJECT CONNECTED LOAD (3Ø)			LOOP
		EX: KVA	ADDED KVA	TOTAL KVA	
FC2058	A	0	75	75	RADIAL
UGM56027	B	100	0	100	---
FL1211	C	0	0	0	---



TRANSFORMER DETAIL 'T-1'

SCALE: 1" = 20'

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.

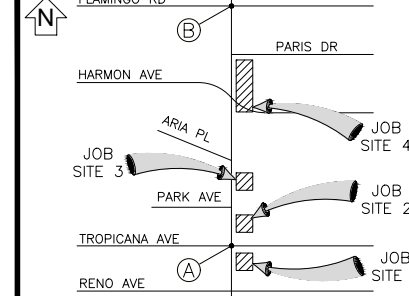
NIGHT WORK: YES NO

ENCROACHMENT PERMIT # _____

_____ DATE _____

N

T,R,S: 21-61-29
 APN: 162-28-199-033
 162-28-112-001
 162-29-510-006
 162-16-412-004
 162-17-810-009



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 BEFORE YOU DIG

Call before you Dig Avoid cutting underground utility lines. It's costly.

CALL 811

REGIONAL "CALL BEFORE YOU DIG" NUMBER: 1-800-642-2444

CALL 1-702-402-2929

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

NON-STANDARD PROJECT PURPOSE:

TO PROVIDE POWER TO
 (3)400A, 120/240V PEDESTALS,
 (4)400A, 277/480V PEDESTAL,
 & RELOCATE (1)200A, 120/240V METER TO A 200A, 120/240V 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 UG@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, KAJZAD
 CONTACT: YATSON, JOE ** 702-804-2158

APPROVAL DATE: _____

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 HOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT HOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

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-LAS VEGAS BLVD - TROPICANA AVE TO FLAMINGO RD PHASE E
 LAS VEGAS BLVD, TROPICANA TO FLAMINGO

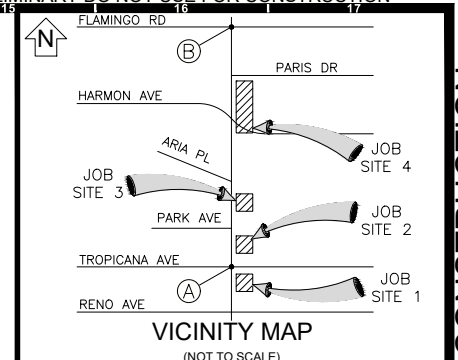
PROJ #3007020775 SCALE: 1"=30'
 SHEET # 2 OF 8 DATE: 7/21/2021

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



T,R,S: 21-61-29
APN: 162-28-199-033
162-28-112-001
162-29-510-006
162-16-412-004
162-17-810-009



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 before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811
REGIONAL "CALL BEFORE YOU DIG" NUMBER: 1-800-642-2444

CALL 1-702-402-2929

REVISIONS

NO.	DESCRIPTION	DATE	REV BY

NON-STANDARD

PROJECT PURPOSE:

TO PROVIDE POWER TO
(3)400A, 120/240V PEDESTALS,
(4)400A, 277/480V PEDESTAL,
& RELOCATE (1)200A, 120/240V METER
TO A 200A, 120/240V 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 UG@NVEENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

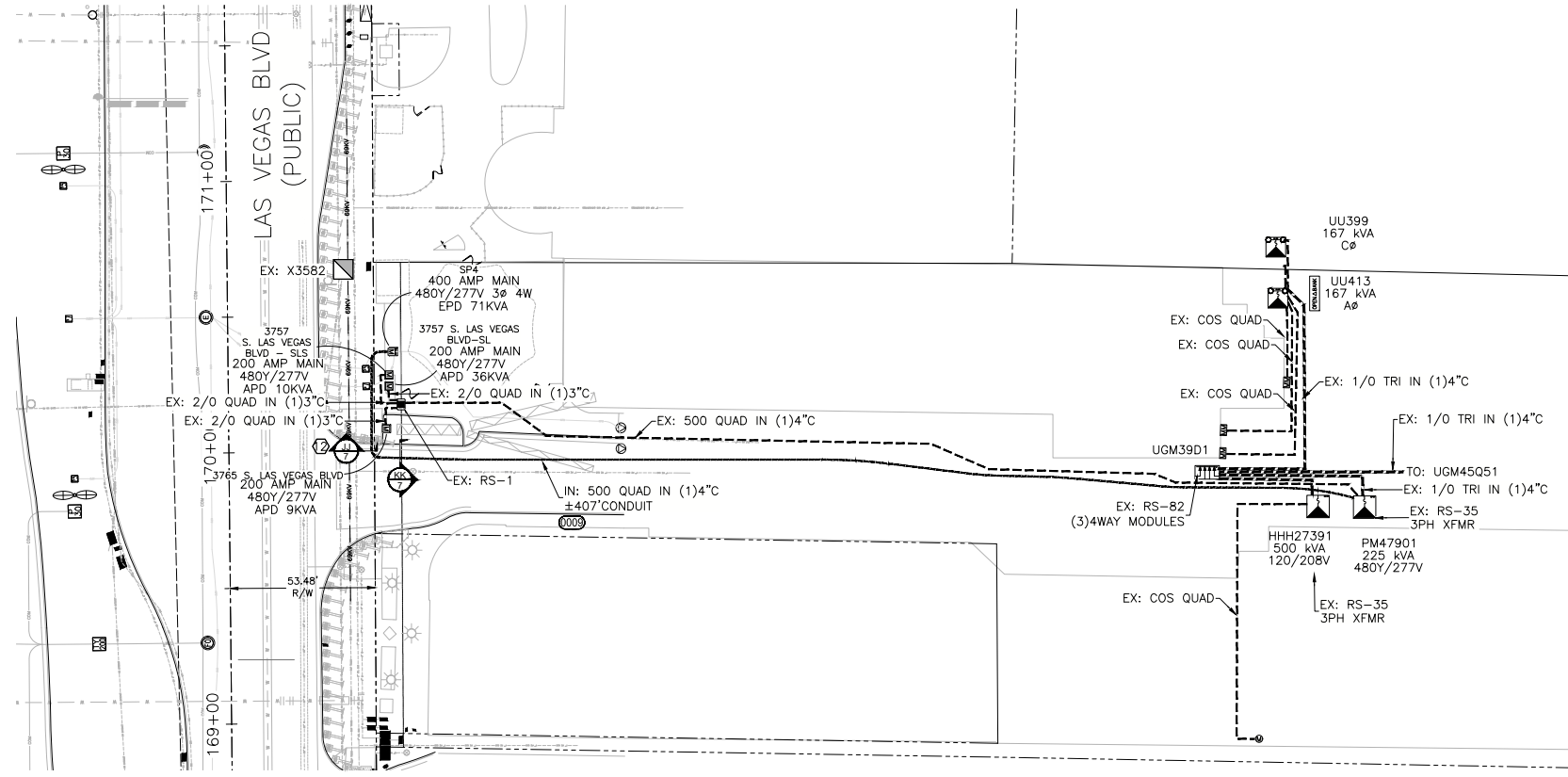
JPA INFORMATION:
JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:
APPLICANT: COUNTY OF CLARK
APPLICANT CONTACT: YAZDANI, KAJAZAD
CONTACT: YATSON, JOE ** 702-804-2158

APPROVAL DATE: _____
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-HOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT-HOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.



JOB SITE 3

TRANSFORMER CONNECTED LOAD			
TRANSFORMER #:	APD	EPD	TOTAL
PM47901	55	71	126

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 # _____
_____ 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

NVEnergy.

CC-LAS VEGAS BLVD - TROPICANA AVE TO FLAMINGO RD PHASE E
LAS VEGAS BLVD, TROPICANA TO FLAMINGO

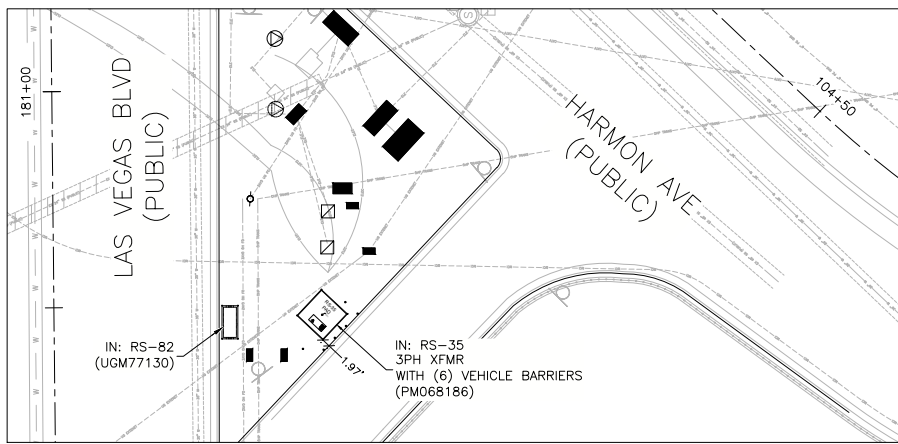
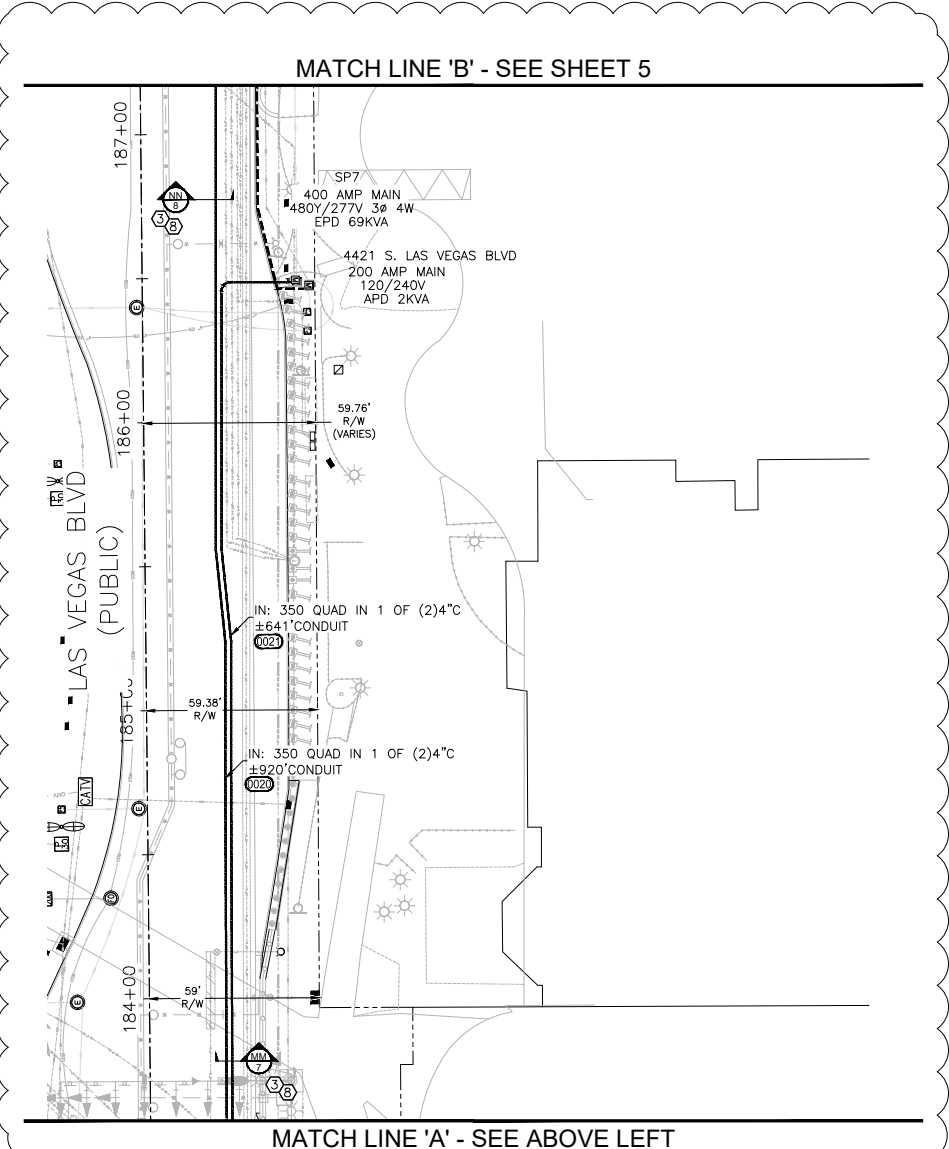
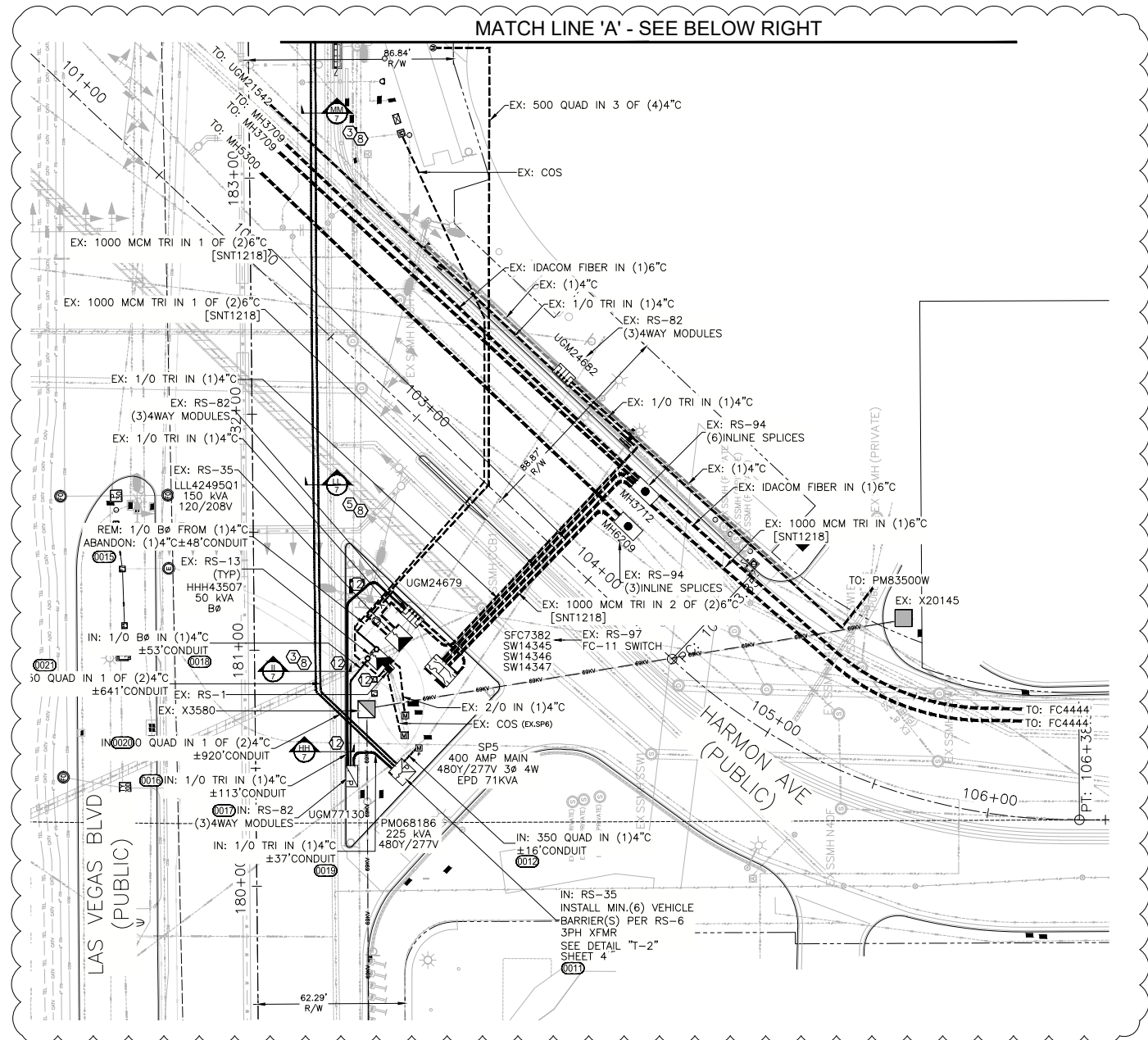
PROJ #3007020775 SCALE: 1"=30'
SHEET # 3 OF 8 DATE: 7/21/2021

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



SOURCE	PROJECT	CONNECTED LOAD (3Ø)	LOOP		
FC OR RISER	PH.	EX: KVA	ADDED KVA	TOTAL KVA	FC OR RISER
SFC7382	A	550	75	625	XXXX
UGM24679	B	600	75	675	XX
SNT1218	C	550	75	625	120X

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 # _____

_____ DATE _____

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED*

DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY

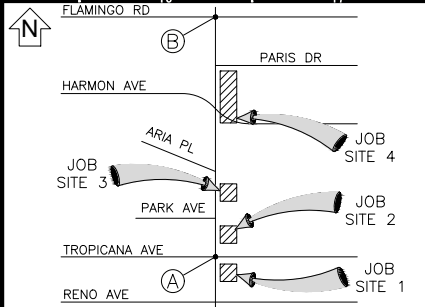
PW# _____ DATE _____

* NV 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

T,R,S: 21-61-29
APN: 162-28-199-033
162-28-112-001
162-29-510-006
162-16-412-004
162-17-810-009

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 DIG

CALL 1-702-402-2929

Call before you Dig

Avoid cutting underground utility lines. It's costly.

CALL 811

REGIONAL "CALL BEFORE YOU DIG" NUMBER: 1-800-642-2444

REVISIONS

NO.	DESCRIPTION	DATE	REV BY

NON-STANDARD PROJECT PURPOSE:

TO PROVIDE POWER TO
(3)400A, 120/240V PEDESTALS,
(4)400A, 277/480V PEDESTAL,
& RELOCATE (1)200A, 120/240V METER
TO A 200A, 120/240V 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 UG@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: YATSON, JOE ** 702-804-2158

APPROVAL DATE: _____

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-HOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT-HOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

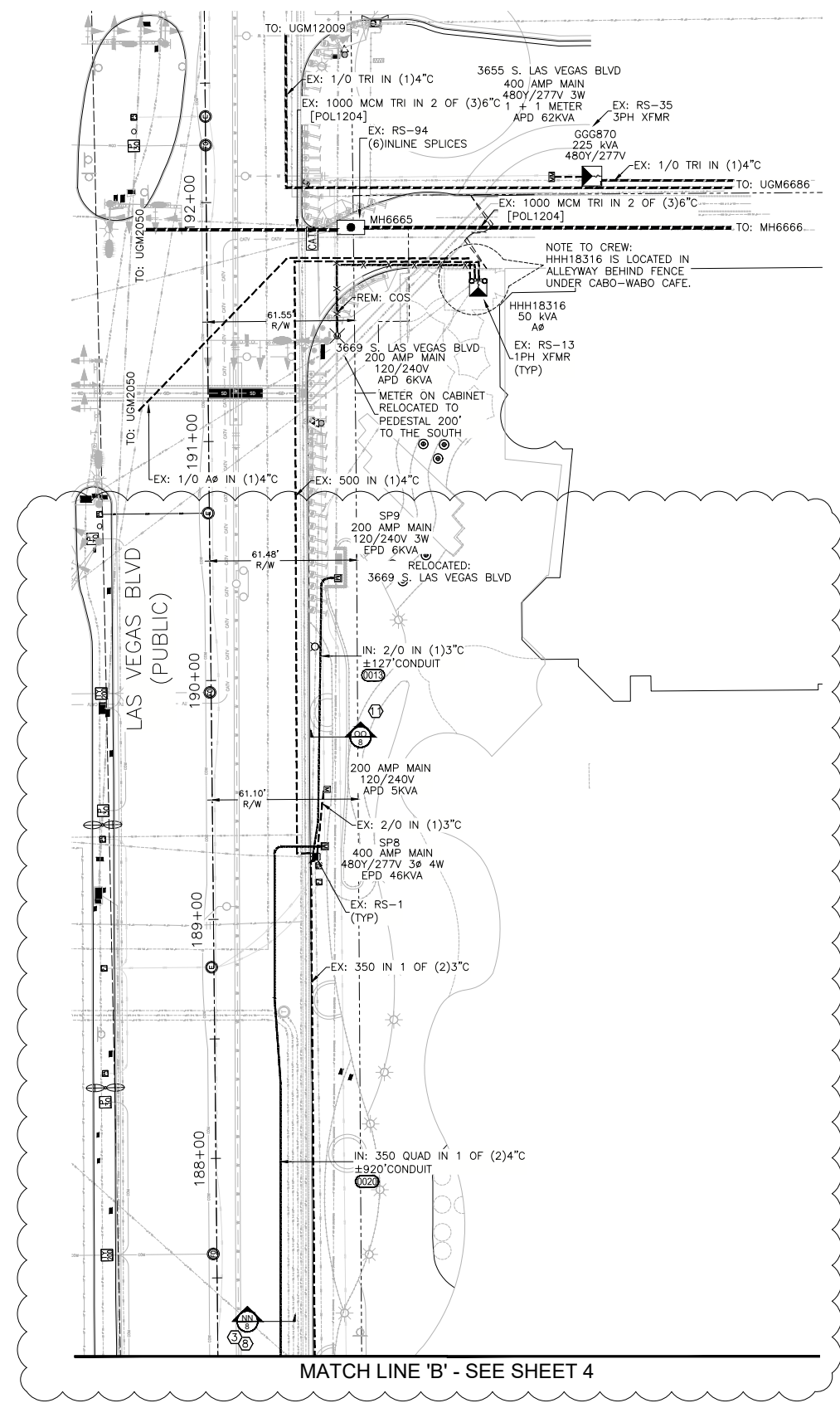
NVEnergy.

CC-LAS VEGAS BLVD - TROPICANA AVE TO FLAMINGO RD PHASE E
LAS VEGAS BLVD, TROPICANA TO FLAMINGO

PROJ #3007020775 SCALE: 1"=30'
SHEET # 4 OF 8 DATE: 7/21/2021

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



MATCH LINE 'B' - SEE SHEET 4

JOB SITE 4

CUSTOMER OUTAGE REQUIRED!

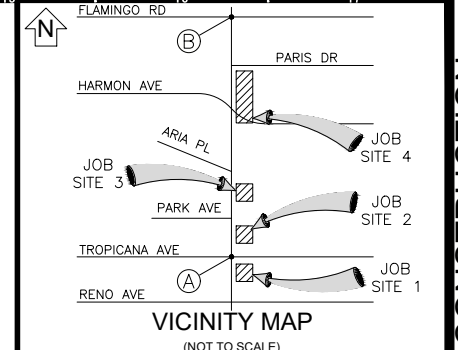
NIGHT TIME OUTAGE:
 ADDRESS(ES): 3669 S. LAS VEGAS BLVD METER QTY: 1

TRANSFORMER CONNECTED LOAD		
TRANSFORMER #: HHH18316		
APD	EPD	TOTAL
A Ø 12	0	12

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.
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APPROVED FOR PERMITTING
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 NIGHT WORK: YES NO
 ENCROACHMENT PERMIT # _____
 # _____ DATE _____

N
 T,R,S: 21-61-29
 APN: 162-28-199-033
 162-28-112-001
 162-29-510-006
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REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

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 APPLICANT: COUNTY OF CLARK
 APPLICANT CONTACT: YAZDANI, KAJZAD
 CONTACT: YATSON, JOE ** 702-804-2158

GOVERNMENT INFORMATION:
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 AGENCY(S): CLARK

APPROVAL DATE(S): N/A
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 PW# _____
 DATE _____

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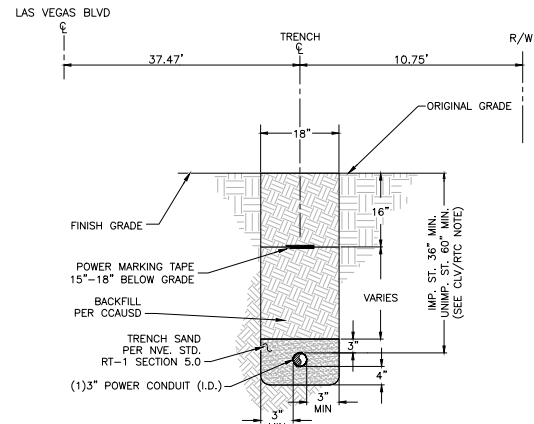
NVEnergy.

CC-LAS VEGAS BLVD - TROPICANA AVE TO FLAMINGO RD PHASE E LAS VEGAS BLVD, TROPICANA TO FLAMINGO

PROJ #3007020775 SCALE: 1"=30'
SHEET # 5 OF 8 DATE: 7/21/2021

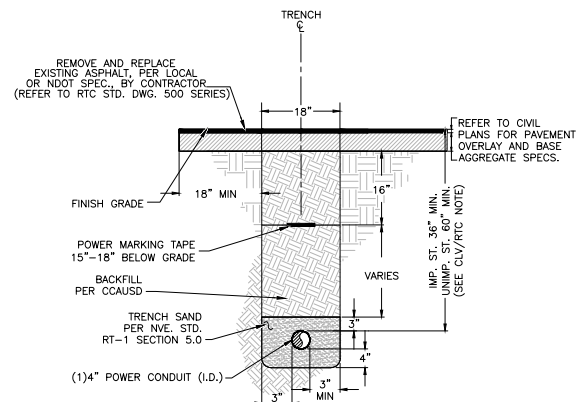
PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



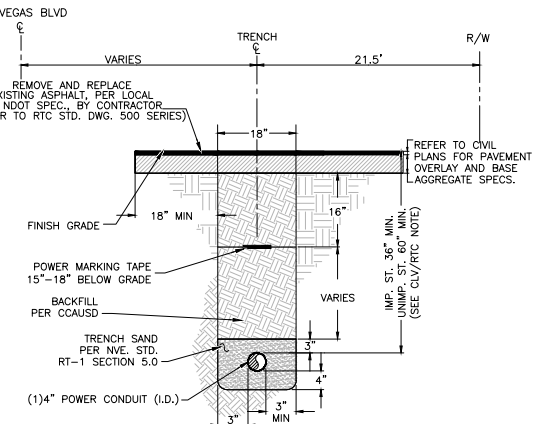
NOTES:
 REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON, CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 503, 503.1 & 503.2);
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 2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS 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:
 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 SECTION "AA" 1-3" CONDUITS



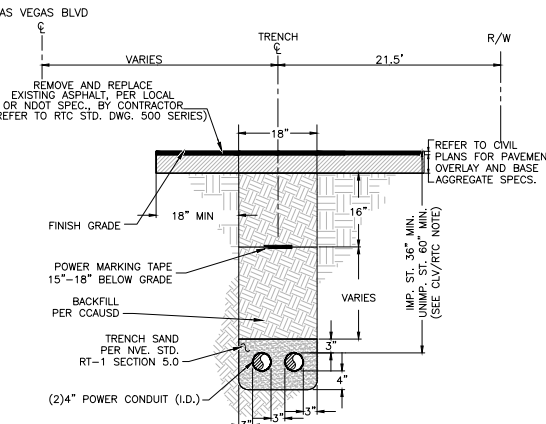
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TRENCH DETAIL SECTION "BB" 1-4" CONDUITS



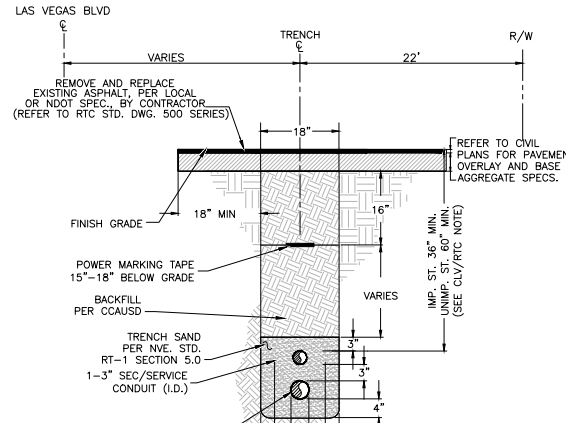
NOTES:
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TRENCH DETAIL SECTION "CC" 1-4" CONDUITS



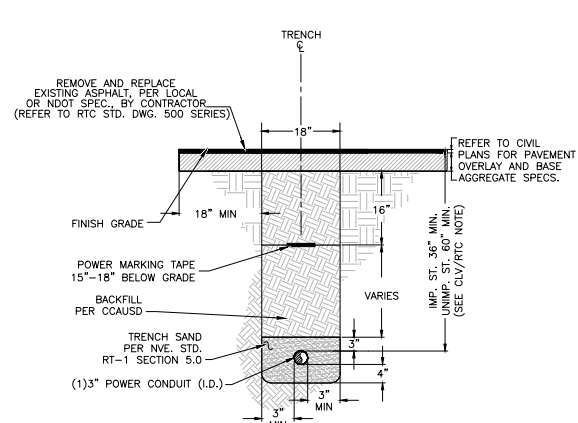
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TRENCH DETAIL SECTION "CD" 2-4" CONDUITS



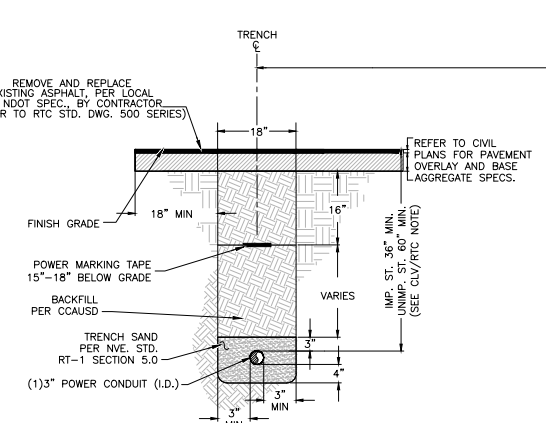
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TRENCH DETAIL SECTION "DD" 1-4" & 1-3" CONDUITS



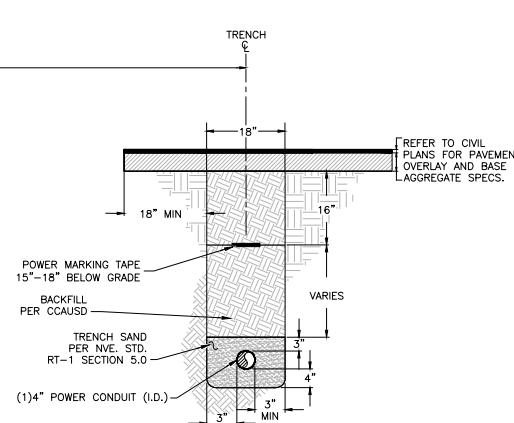
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TRENCH DETAIL SECTION "EE" 1-3" CONDUITS



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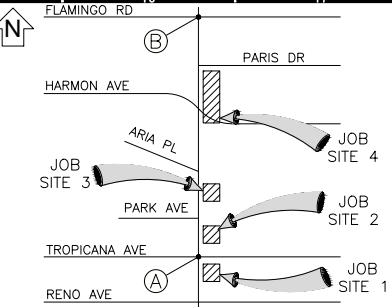
TRENCH DETAIL SECTION "FF" 1-4" CONDUITS



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TRENCH DETAIL SECTION "FF" 1-4" CONDUITS

T,R,S: 21-61-29
 APN: 162-28-199-033
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VICINITY MAP (NOT TO SCALE)

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REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

NON-STANDARD PROJECT PURPOSE:

TO PROVIDE POWER TO
 (3)400A, 120/240v PEDESTALS,
 (4)400A, 277/480v PEDESTAL,
 & RELOCATE (1)200A, 120/240v METER
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EXHIBIT 'A'

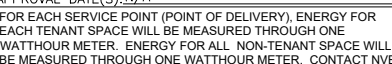
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 JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:
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GOVERNMENT INFORMATION:
 APPROVAL DATE: _____
 AGENCY(S): CLARK

APPROVAL DATE(S): N/A
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PW# _____ DATE _____

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ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR

CC-LAS VEGAS BLVD - TROPICANA AVE TO FLAMINGO RD PHASE E
 LAS VEGAS BLVD, TROPICANA E
 FLAMINGO

PROJ #3007020775 SCALE: 1"=30'
 SHEET # 6 OF 8 DATE: 7/21/2021

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 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.

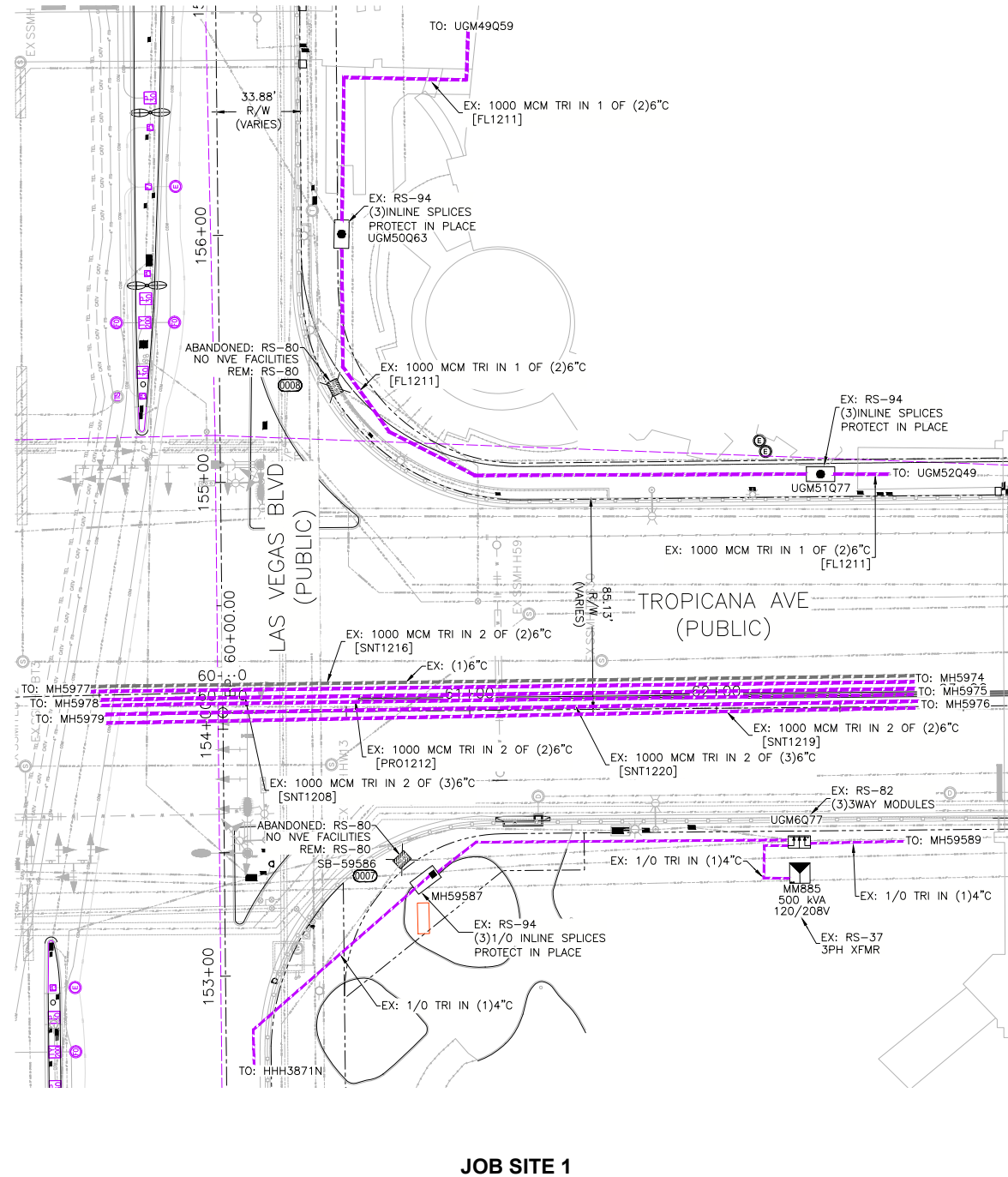
APPROVED FOR PERMITTING
 THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.
 NIGHT WORK: YES NO
 ENCROACHMENT PERMIT # _____
 # _____ DATE _____

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION

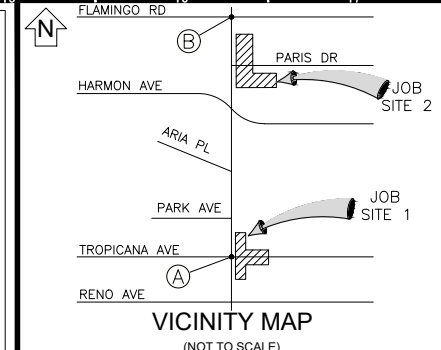
PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



JOB SITE 1

T,R,S: 21-61-29
 APN: 162-28-199-033
 162-28-112-001
 162-29-510-006
 162-16-412-004
 162-17-810-009



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 before you Dig
 Avoid cutting underground utility lines. It's costly.
CALL 811
 REGIONAL "CALL BEFORE YOU DIG" NUMBER: 1-800-642-2444
 CALL 1-702-402-2929

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY

NON-STANDARD PROJECT PURPOSE:

TO REMOVE AND REPLACE 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 UG@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: YAZDANI, KAIZAD ** 702-455-2992

APPROVAL DATE: _____
 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 HOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT HOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

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 # _____

_____ 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

NVEnergy.

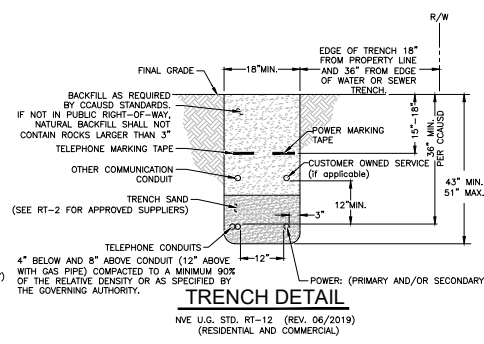
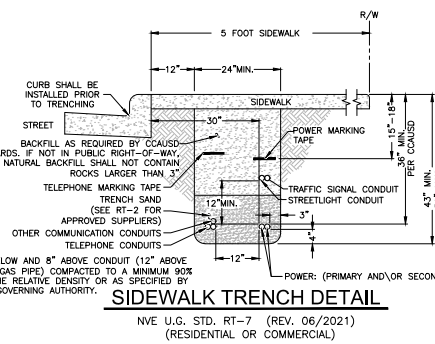
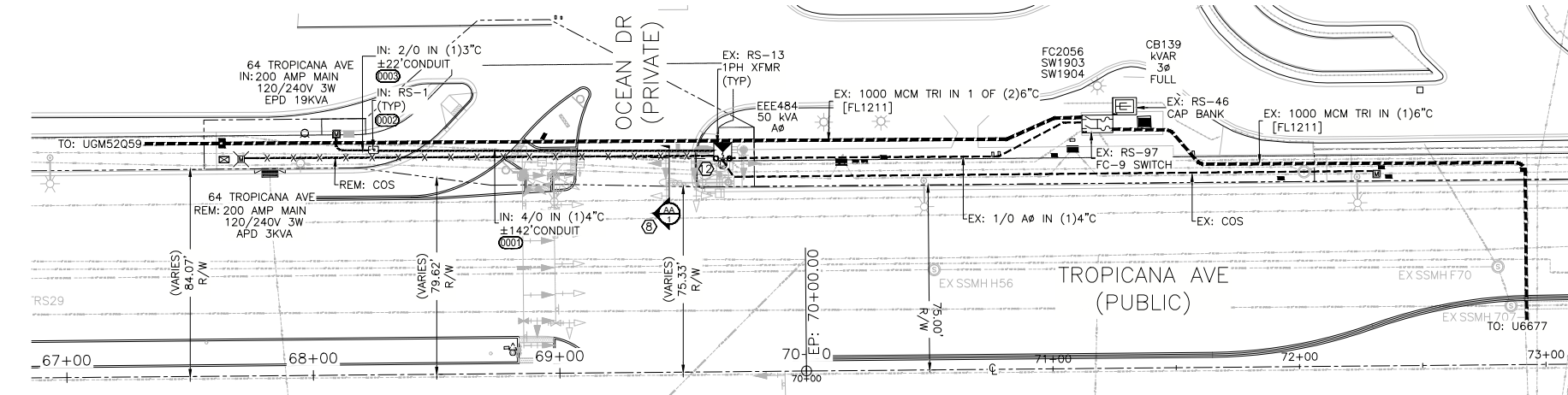
CC-LAS VEGAS BLVD, TROPICANA TO FLAMINGO PHASE E & LAS VEGAS BLVD - TROPICANA TO FLAMINGO

PROJ #3007191760 SCALE: 1"=30'

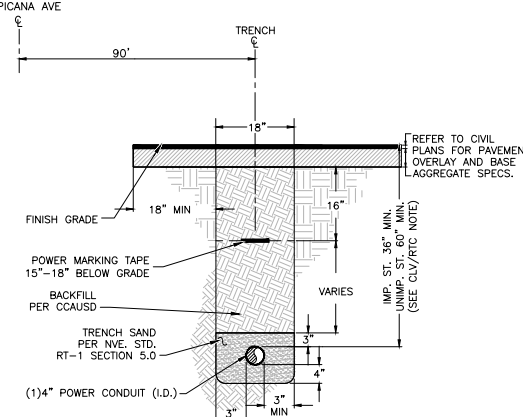
SHEET # 2 OF 4 DATE: 7/29/2021

PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



!!!! CAUTION !!!!
ENERGIZED CABLES...
CALL BEFORE YOU DIG



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.

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 NV ENERGY STD. RS-5

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

TRANSFORMER CONNECTED LOAD

TRANSFORMER #:	APD	EPD	TOTAL
EEE484	12	19	31

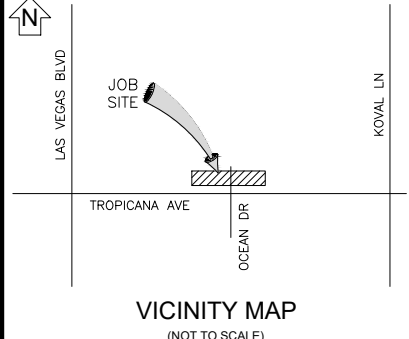
NV Energy REQUIRES 24 HOUR ACCESS TO EQUIPMENT
NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

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): 64 TROPICANA AVE
METER QTY: 1

CUSTOMER NOTE:
UNLESS OTHERWISE NOTED, ALL CONDUIT, BENDS AND SUBSTRUCTURES ARE THE RESPONSIBILITY OF THE CUSTOMERS CONTRACTOR, OR ASSIGNED DCA CONTRACTOR (RESIDENTIAL ONLY)

GENERAL NOTES:
ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.
REFER TO A CURRENT NV ENERGY ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NV ENERGY 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 NV ENERGY 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 NV ENERGY. 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 NV ENERGY UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.
ALL NV ENERGY 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\"/>



REVISIONS

NO.	DESCRIPTION	DATE	REV BY

NON-STANDARD PROJECT PURPOSE:
TO RELOCATE SERVICE PEDESTAL

EXHIBIT 'A'
NVE ENERGY INFORMATION:
PROJECT COORDINATOR: JACKSON, DON
PROJECT COORDINATOR PHONE: (702) 236-3259 D.F. _KL
PROJECT DESIGNER: MARTINEZ, JONATHAN
CONSTRUCTION COORDINATOR: BELTWAY(LVN): 702-482-2446
DCA: N/A
INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4105, 4114, 4117, 4118
DISTRICT: LAS VEGAS NORTH DISTRICT

REVISIONS

NON-STANDARD PROJECT PURPOSE:
TO RELOCATE SERVICE PEDESTAL

EXHIBIT 'A'
NVE ENERGY INFORMATION:
PROJECT COORDINATOR: JACKSON, DON
PROJECT COORDINATOR PHONE: (702) 236-3259 D.F. _KL
PROJECT DESIGNER: MARTINEZ, JONATHAN
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INSPECTOR: 702-402-3008 OR UGI@NVEENERGY.COM
STAND BY: (702) 402-4450, 4105, 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: ELLERD, NATE ** 707-499-8434
APPROVAL DATE: _____
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.

CIVIL LINE TYPE LEGEND

CENTERLINE	---
PROPERTY LINE/R.O.W	---
CURB	---
EDGE OF PAVEMENT	---
EDGE OF SIDEWALK	---
SEWER LINE	---
WATER LINE	---
COHW WATER LINE	---
LWWD WATER LINE	---
SNWA WATER LINE	---
GAS LINE	---
TELEPHONE LINE	---
CABLE TV LINE	---
CABLE TV LINE	---
STORM DRAIN LINE	---
FIRE HYDRANT	---
SIGNAL LIGHT	---
SERVICE INDICATOR	---
STREET LIGHT	---

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

APPROVED FOR PERMITTING
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NIGHT WORK: YES NO
ENCROACHMENT PERMIT # _____
DATE _____

REVISION PRIOR TO DAA

REV	DESCRIPTION	DATE

PROPORTIONATE SHARE

WORK ORDER #	PH SHARES
OH 2/0	1 PH SHARES
OH 954	1 PH SHARES
UG 1000MCM	1 PH SHARES
UG 1/0	1 PH SHARES
UG 1/0 RES	1 PH SHARES
SWITCH(S)	1 PH SHARES
XFMR 1-315	1 PH SHARES
XFMR 316-1000	1 PH SHARES
XFMR 1001-2500	1 PH SHARES

CONSTRUCTION / INSPECTION REQUIREMENTS
WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: 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.

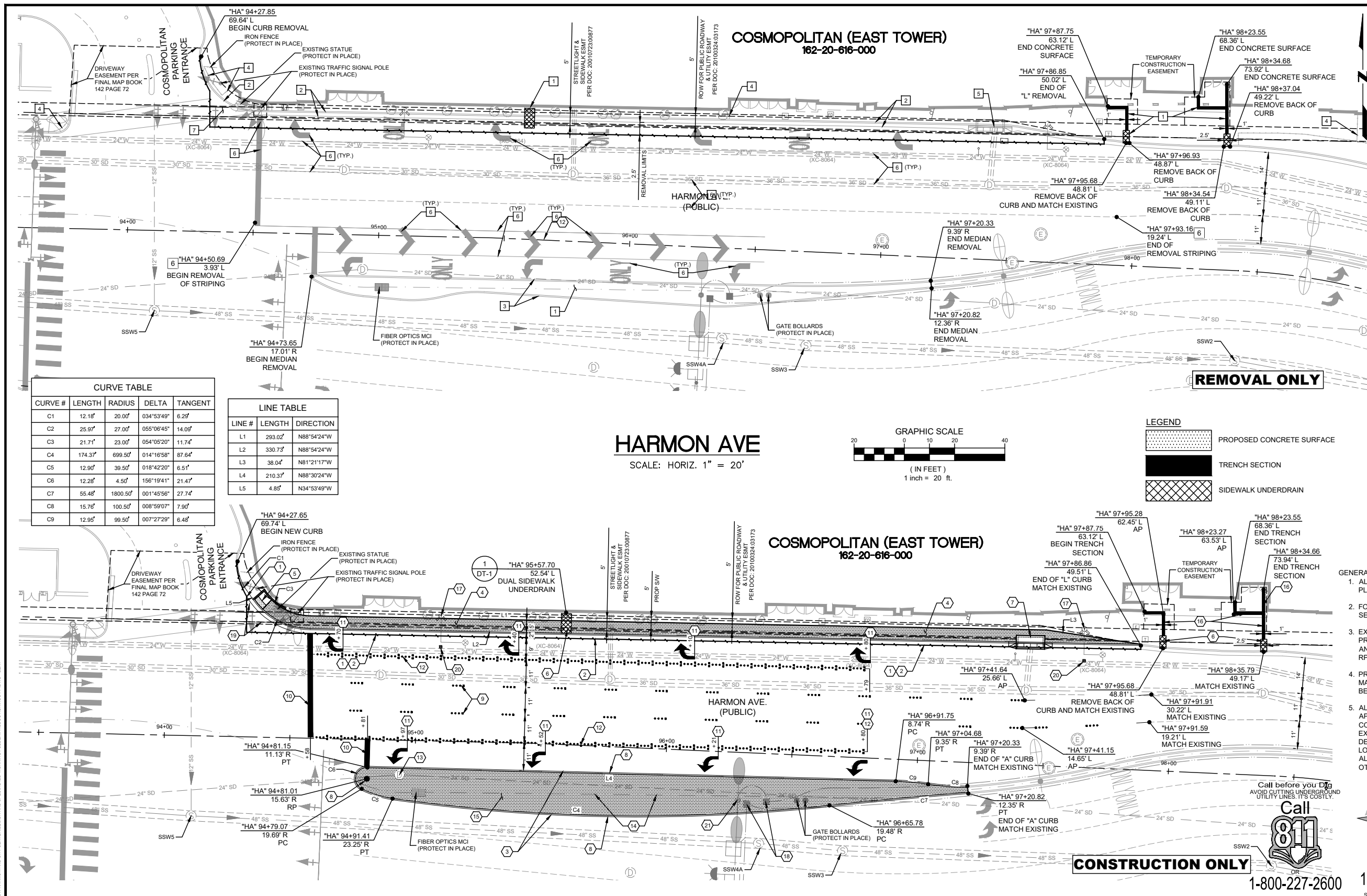
METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:
• (INSTRUMENT-RATED ONLY) METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submit to: southern@nvenergy.com)
• APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
• 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

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.

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
1) 234	SIDEWALK
2) 224	COMMERCIAL DRIVEWAY CROSSINGS
4) 216	"L" TYPE CURB AND GUTTER
5) 228	CROSS GUTTER
6) 235	ADA SIDEWALK RAMP
7) 506	UTILITY POTHOLE REPAIR

HARMON AVENUE IMPROVEMENTS - SIDEWALK INSTALLATION LV BLVD TO CITY CENTER



- REMOVAL NOTES**
- 1 REMOVE CONCRETE
 - 2 REMOVE "L" TYPE CURB AND GUTTER
 - 3 REMOVE "A" TYPE CURB
 - 4 REMOVE, SALVAGE, AND DELIVER IRON FENCE TO COSMOPOLITAN LAS VEGAS
 - 5 REMOVE DROP-INLET
 - 6 REMOVE STRIPING
 - 7 REMOVE CONCRETE SPANDREL

- CONSTRUCTION NOTES**
- 1 SAWCUT AND MATCH EXISTING CONDITIONS
 - 2 CONSTRUCT TYPE L CURB AND GUTTER PER USDOCCA STD. DWG NO. 216
 - 3 CONSTRUCT "A" TYPE CURB PER USDOCCA STD. DWG. NO. 219
 - 4 CONSTRUCT CONCRETE SIDEWALK PER USDOCCA STD. DWG. NO. 234
 - 5 CONSTRUCT TYPE I ADA SIDEWALK RAMP WITH TRUNCATED DOME PER USDOCCA STD. DWG. NO. 235
 - 6 CONSTRUCT SIDEWALK UNDERDRAIN PER USDOCCA STD. DWG. NO. 236
 - 7 INSTALL TYPE 10 "CM2" DROP INLET PER USDOCCA STD. DWG. NO. 412.1 & 421
 - 8 INSTALL MEDIAN NOSE MARKING PER DETAIL 4 ON SHEET DT-1
 - 9 INSTALL TYPE 4 LANE LINE PER USDOCCA DWG. NO. 244.1 (RPM)
 - 10 INSTALL 24-INCH WHITE CROSSWALK/STOP BAR PER USDOCCA DWG. NO. 254 (THERMOPLASTIC)
 - 11 INSTALL WHITE PAVEMENT MARKING ARROW (THERMOPLASTIC)
 - 12 INSTALL STORAGE LANE LINE PER USDOCCA DWG. NO. 246.6 (RPM)
 - 13 VERTICALLY ADJUST STORM DRAIN MANHOLE PER USDOCCA DWG. NO. 404.1 AND 408.1
 - 14 EXISTING 2" CONDUIT (PROTECT IN PLACE)
 - 15 INSTALL CONCRETE MEDIAN SURFACE PER USDOCCA DWG. NO. 218
 - 16 INSTALL DURANTRENCH SYSTEM OR EQUIVALENT PER DETAIL 3 ON SHEET DT-1
 - 17 VERTICALLY ADJUST FIRE HYDRANT TO FINISH GRADE PER UDACS PLATE NO. 40 (IF IMPACTED)
 - 18 VERTICALLY ADJUST PULLBOX TO FINISHED GRADE
 - 19 INSTALL CONCRETE CROSS GUTTER SPANDREL
 - 20 INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKER IN THE CENTER OF THE NEAREST DRIVE LANE TO THE FIRE HYDRANT
 - 21 EXISTING ADVANCE WARMING FLASHER (PROTECT IN PLACE)

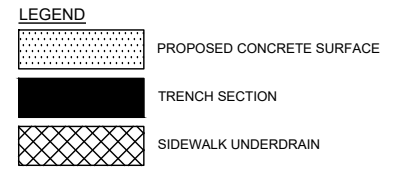
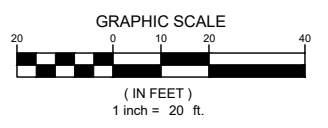
CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	12.18'	20.00'	034°53'49"	6.29'
C2	25.97'	27.00'	055°06'45"	14.09'
C3	21.71'	23.00'	054°05'20"	11.74'
C4	174.37'	699.50'	014°16'58"	87.64'
C5	12.90'	39.50'	018°42'20"	6.51'
C6	12.28'	4.50'	156°19'41"	21.47'
C7	55.48'	1800.50'	001°45'56"	27.74'
C8	15.76'	100.50'	008°59'07"	7.90'
C9	12.95'	99.50'	007°27'29"	6.48'

LINE TABLE

LINE #	LENGTH	DIRECTION
L1	293.02'	N88°54'24"W
L2	330.73'	N88°54'24"W
L3	38.04'	N81°21'17"W
L4	210.37'	N88°30'24"W
L5	4.85'	N34°53'49"W

HARMON AVE
SCALE: HORIZ. 1" = 20'



- GENERAL NOTES:**
1. ALL SUBSURFACE UTILITIES TO BE PROTECTED IN PLACE SHALL BE ACCESSIBLE AT ALL TIME.
 2. FOR PAVEMENT INFORMATION SEE TYPICAL SECTIONS ON SHEET DT-1
 3. EXISTING STRIPING AND RPM'S IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND SHALL BE PAID FOR ON A LUMP SUM BASIC. ALL RPM'S IN AREAS OF MILLING ARE TO BE REMOVED.
 4. PROTECT IN PLACE EXISTING WATERLINE(S). MAINTAIN MINIMUM 12" VERTICAL SEPARATION BETWEEN THE WATERLINE(S) AND CONDUITS.
 5. ALL EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION PRIOR TO COMMENCING CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECT UNLESS OTHERWISE NOTED.

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

Call 811
OR
1-800-227-2600

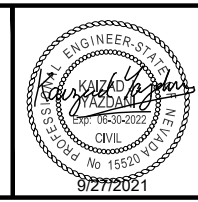
FAST
Call before you Dig
Underground
1-702-432-5300
FREeway AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
Call before you Dig
Overhead
1-702-227-2929

REV No	DATE	DESCRIPTION	APPROVED

CLARK COUNTY NEVADA

HARMON AVENUE IMPROVEMENTS
CONSTRUCTION & REMOVAL PLAN
SIDEWALK AND STORM DRAIN INSTALLATION
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

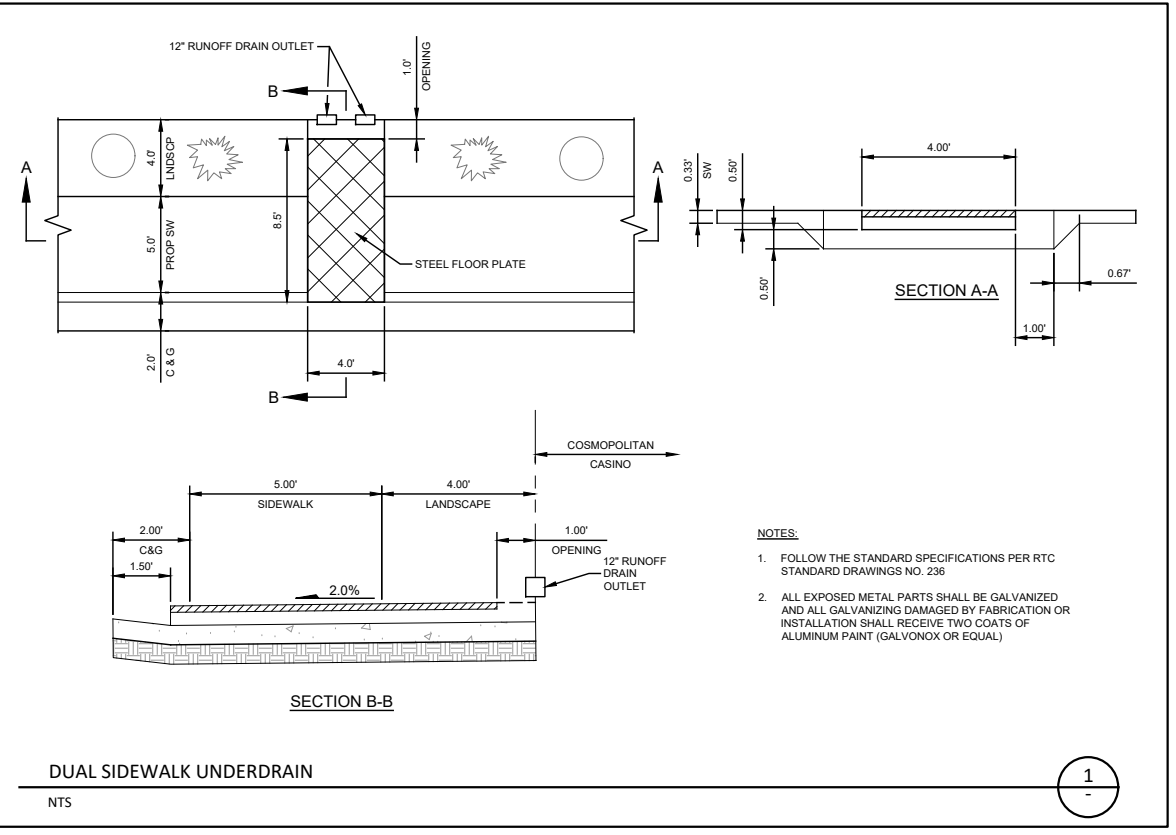
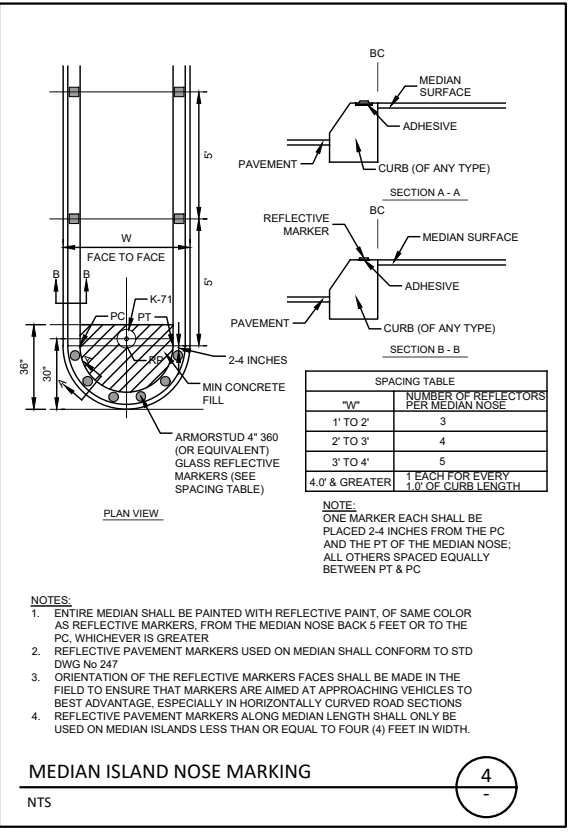
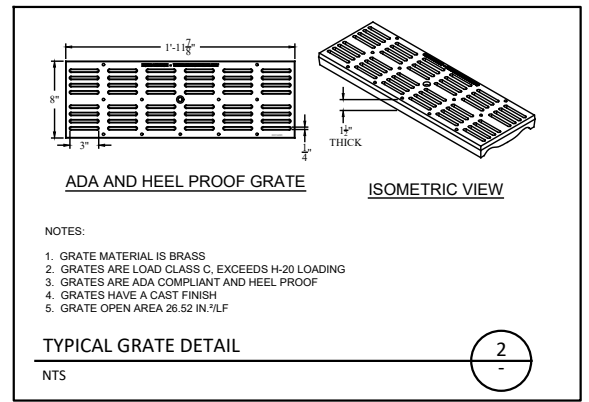
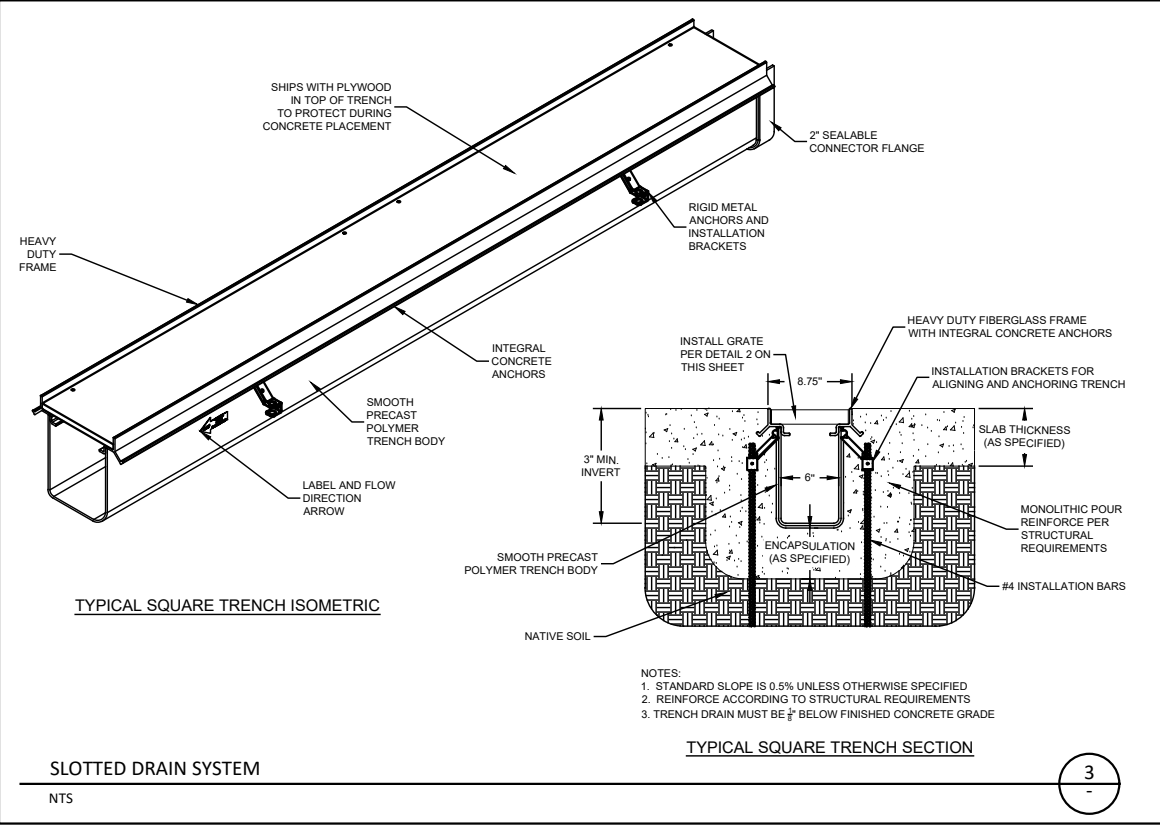
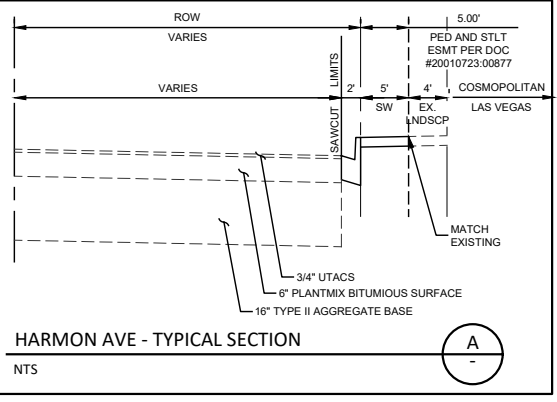


DESIGNED BY: HF
DRAWN BY: HF
CHECKED BY: JB/KY
DATE: April 28, 2022

SCALE: HORIZ: 1" = 20', VERT: NONE
FIELD BOOK: NONE
WORK ORDER: NONE
PROJECT No.: NONE

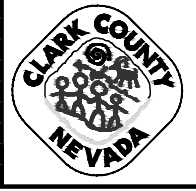
SHEET No: **C-1**
2 OF 4
L-2302

ISSUE FOR CONSTRUCTION



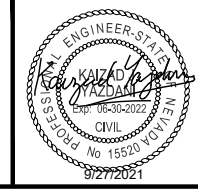
P:\TRAFFIC DIVISION\DESIGN\3 PROJECTS\SPM & SW HARMON AND CITY CENTER\DESIGN AND SPEC\ROAD WORKING FOLDER\PRODUCTION\DWG - BERT

REV No	DATE	DESCRIPTION	APPROVED



HARMON AVENUE IMPROVEMENTS DETAILS SHEET

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

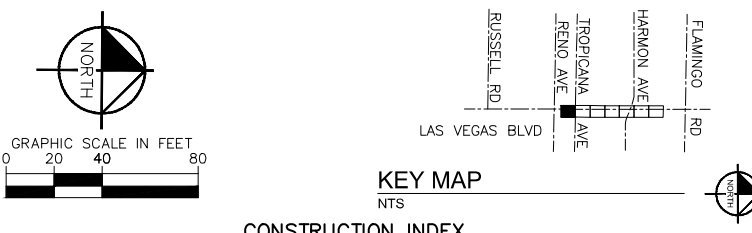
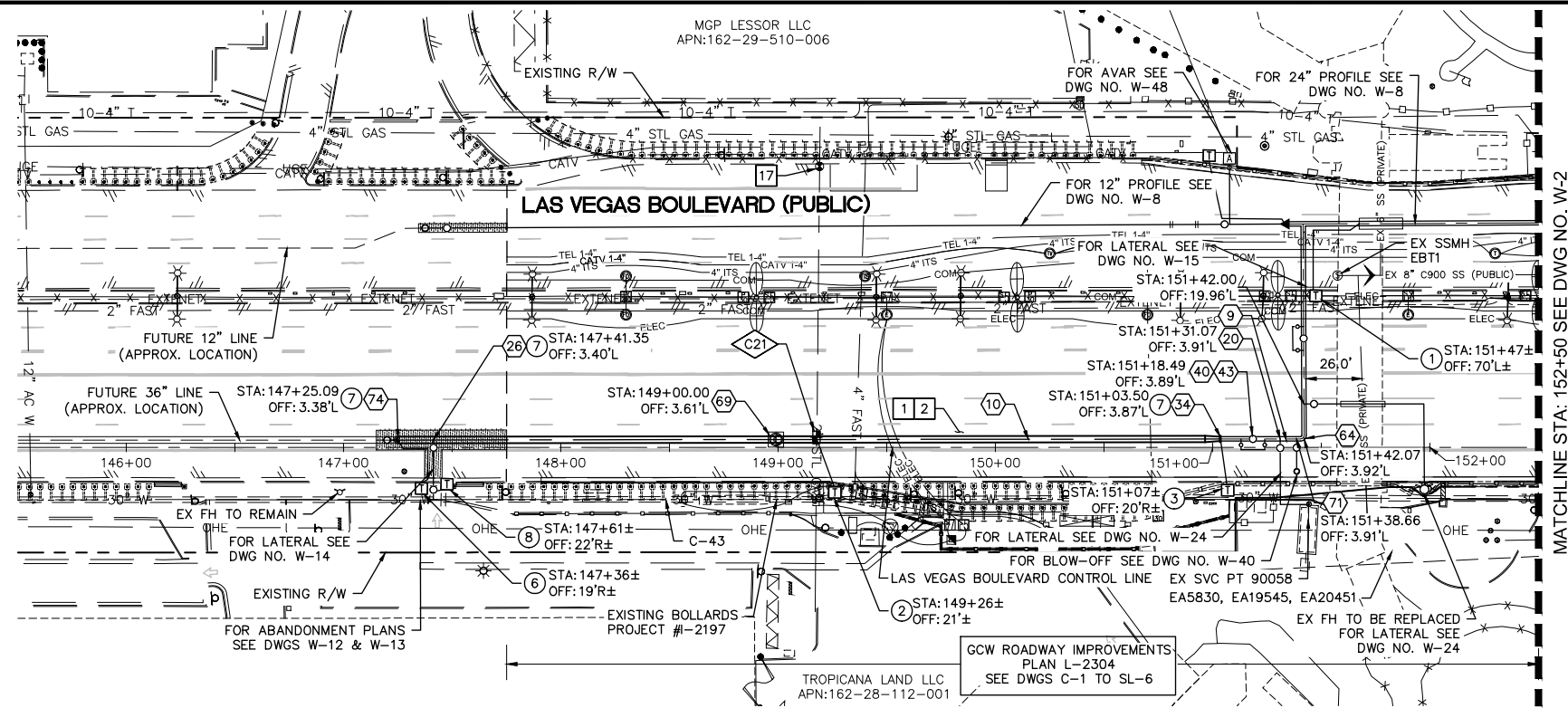


DESIGNED BY: HF
 DRAWN BY: HF
 CHECKED BY: JB/KY
 DATE: April 28, 2022

SCALE	SHEET No
HORIZ: NONE	DT-1
VERT: NONE	
FIELD BOOK: NONE	3 OF 4
WORK ORDER: NONE	L-2302
PROJECT No: NONE	

HARMON AVENUE IMPROVEMENTS - SIDEWALK INSTALLATION LV BLVD TO CITY CENTER

User: hndm\p...
 Path: C:\Users\hndm\p...
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- ### CONSTRUCTION INDEX
- 9 INSTALL 24" DIP, RESTRAIN AND BOND ALL JOINTS
 - 10 INSTALL 36" MLTC PIPE, WELD ALL JOINTS, STA 147+25 THROUGH STA 181+35
 - 20 INSTALL 24" X 8" TEE, RESTRAIN JOINTS
 - 26 INSTALL 16" VALVED OUTLET PER DETAILS 2 & 3 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
 - 34 INSTALL 36" X 24" MLTC REDUCER WITH WELDED FLANGE
 - 40 INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
 - 43 INSTALL 6" DIP BYPASS ASSEMBLY W/ 6" GATE VALVES, RESTRAIN JOINTS (NOT THRUST BLOCKED), PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 3 DWG WD-11
 - 64 INSTALL 24" X 90° BEND, RESTRAIN JOINTS
 - 69 INSTALL PIPE ACCESS MANHOLE PER DETAILS 3 & 4 ON DWG WD-8
 - 71 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9
 - 74 INSTALL BUMPED HEAD AT END OF PIPE WITH AIR RELEASE VALVE ASSEMBLY PER DETAIL 4 ON DWG WD-10

- ### 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
 - 17 CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VALVE CANS TO GRADE. SEE SWG NOTE 3 ON WG-4

- ### CATHODIC PROTECTION
- 1 INSTALL TYPE C (CASING) TEST STATION PER DETAIL 1 ON DWG WD-21
 - 2 INSTALL TYPE F (FOREIGN) TEST STATION PER DETAIL 2 ON DWG WD-20
 - 3 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 1 ON DWG WD-20
 - 6 INSTALL TYPE T (TYPICAL) TEST STATION PER DETAIL 2 ON DWG WD-21
 - 7 INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22
 - 8 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 4 ON DWG WD-21

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

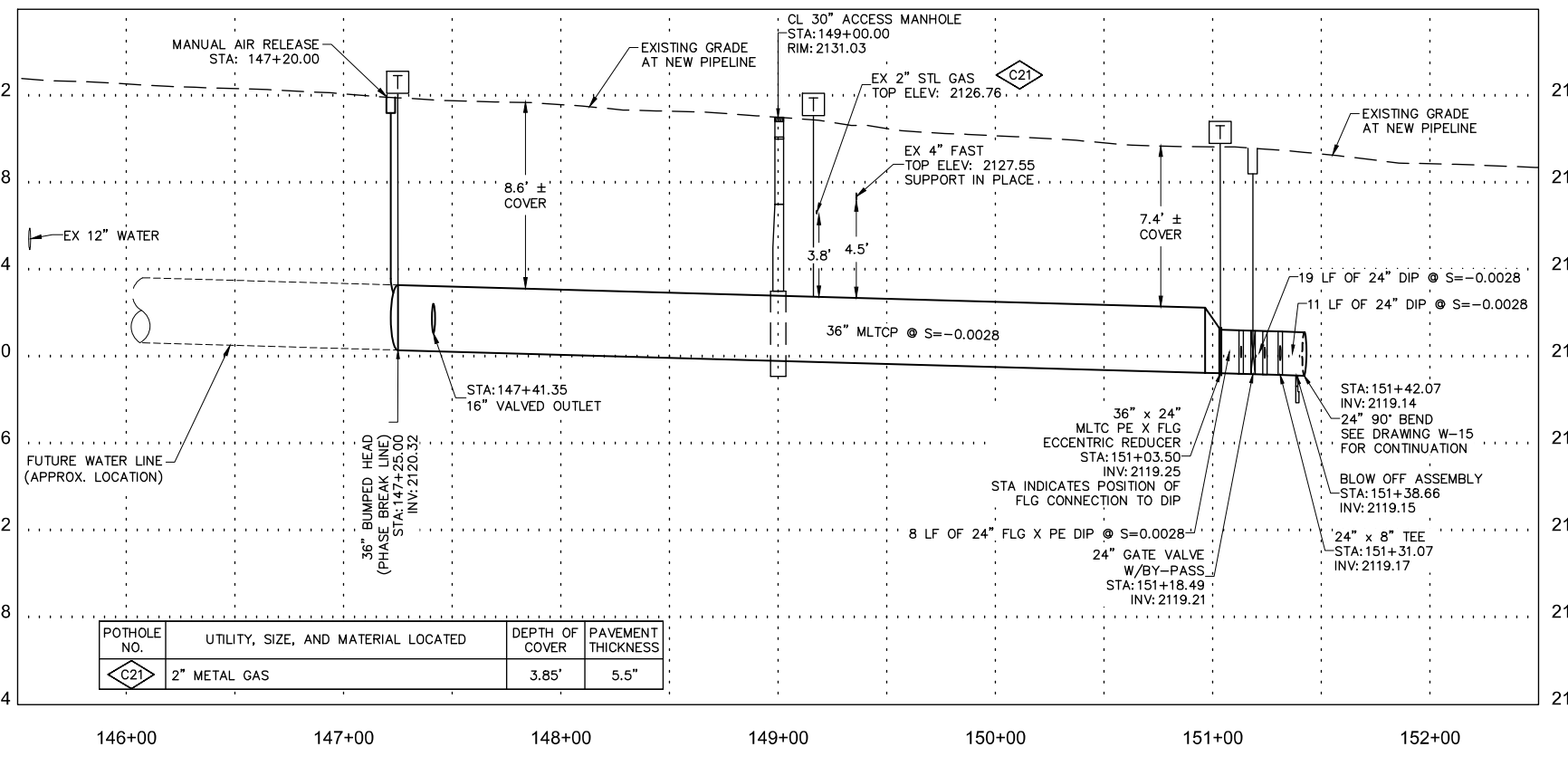
CCWRD PIPES NUMBER IS 21.955
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

LVVWD APPROVAL

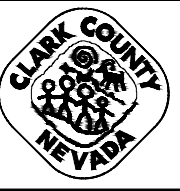
APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

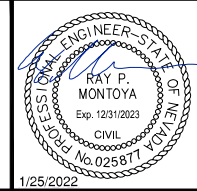
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22



NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
 36" WATER MAIN - PLAN AND PROFILE STA 145+50 TO STA 152+50
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

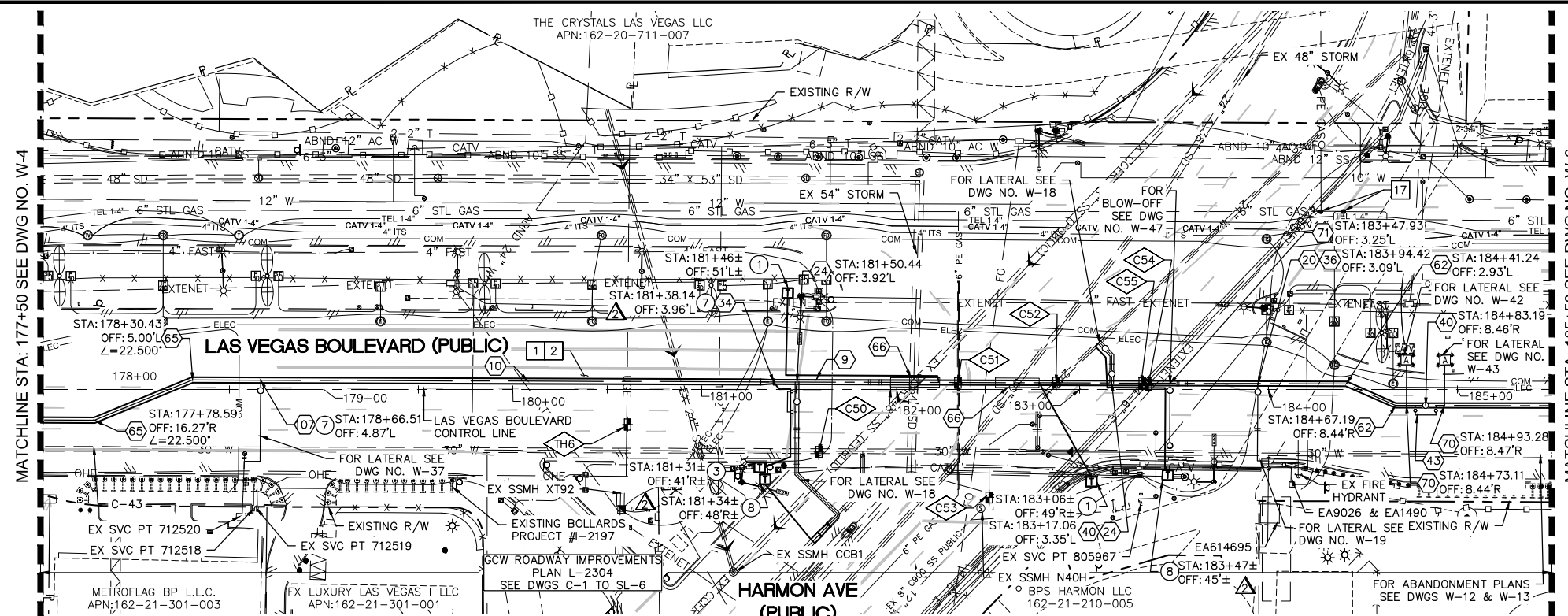


PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____



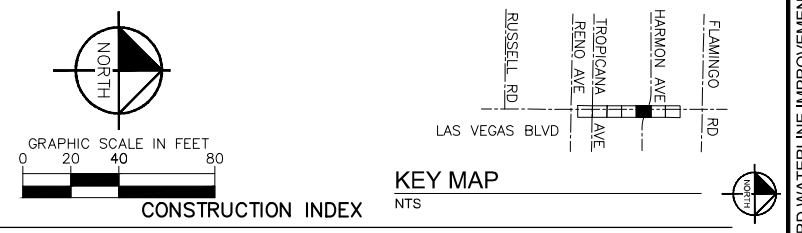
SCALE		DRAWING NO.
HORIZ:	1" = 40'	W-1
VERT:	1" = 4'	
FIELD BOOK		SHT. 6 OF 80
		L-2304

User: hshah@kimley-horn.com; Project: LV-21-301-003; Date: 12/22/21; Title: LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F); 36" & 24" WATER MAIN - PLAN AND PROFILE STA 177+50 TO STA 185+50; This document, together with the contract and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any information contained herein without the written authorization and signature of Kimley-Horn and Associates, Inc. is prohibited.

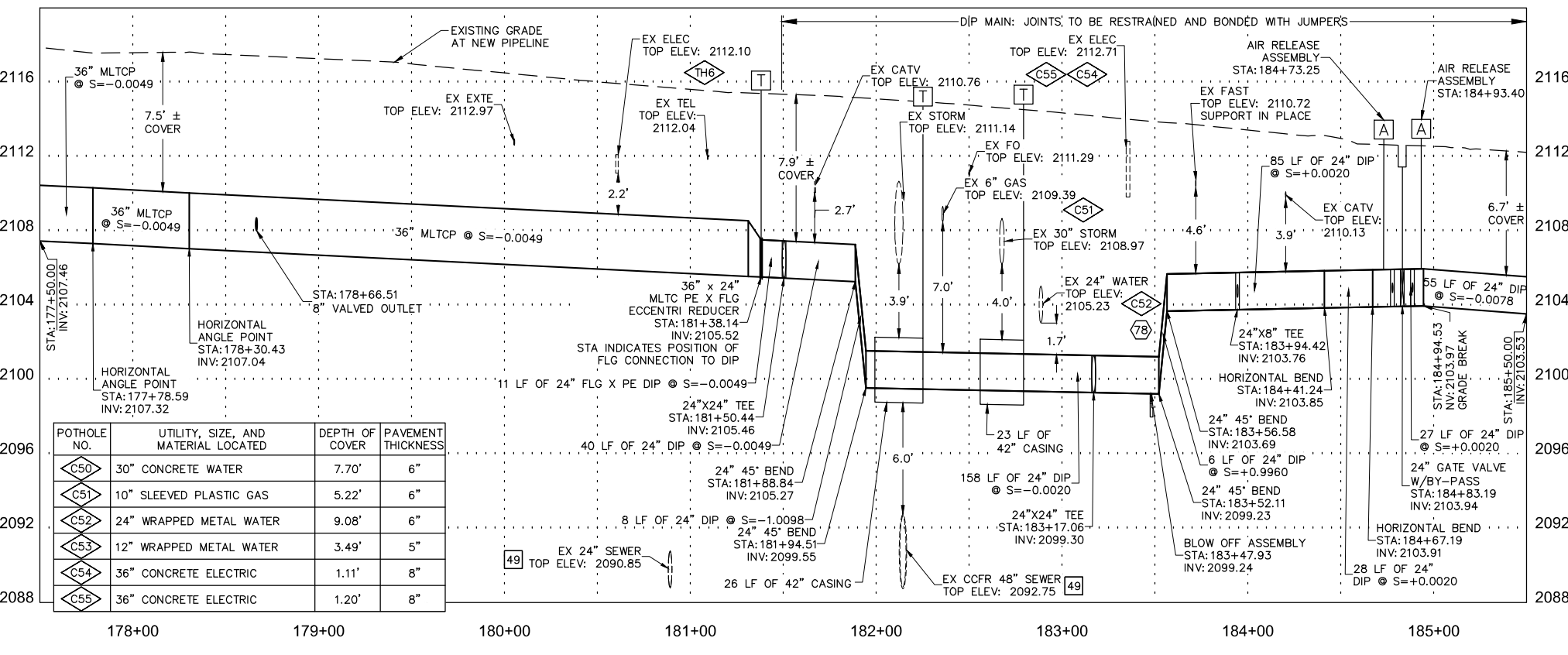


CAUTION: HIGH PRESSURE GAS!!! CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)



- CONSTRUCTION INDEX**
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 - 10 INSTALL 36" MLTC PIPE, WELD ALL JOINTS, STA 147+25 THROUGH STA 181+35
 - 20 INSTALL 24" X 8" TEE, RESTRAIN JOINTS
 - 24 INSTALL 24" X 24" TEE, RESTRAIN JOINTS
 - 34 INSTALL 36" X 24" MLTC REDUCER WITH WELDED FLANGE
 - 36 INSTALL 8" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 40 INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
 - 43 INSTALL 6" DIP BYPASS ASSEMBLY W/ 6" GATE VALVES, RESTRAIN JOINTS (NOT THRUST BLOCKED), PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 3 DWG WD-11
 - 62 INSTALL 24" X 22.5" BEND, RESTRAIN JOINTS
 - 65 INSTALL 36" MLTC PIPE HORIZONTAL ANGLE POINT
 - 66 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
 - 70 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
 - 71 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 107 INSTALL 8" VALVED OUTLET PER DETAILS 2 & 3 ON DWG WD-10 & DETAIL 2 ON DWG WD-11
- 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
 - 17 CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VALVE CANS TO GRADE. SEE SWG NOTE 3 ON WG-4
 - 49 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSCWS
- CATHODIC PROTECTION**
- 1 INSTALL TYPE C (CASING) TEST STATION PER DETAIL 1 ON DWG WD-21
 - 3 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 1 ON DWG WD-20
 - 7 INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22
 - 8 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 4 ON DWG WD-21



POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
C50	30" CONCRETE WATER	7.70'	6"
C51	10" SLEEVED PLASTIC GAS	5.22'	6"
C52	24" WRAPPED METAL WATER	9.08'	6"
C53	12" WRAPPED METAL WATER	3.49'	5"
C54	36" CONCRETE ELECTRIC	1.11'	8"
C55	36" CONCRETE ELECTRIC	1.20'	8"

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
 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

DIGITALLY SIGNED BY CALVIN STARMAN DATE: 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT
 CCWRD PIPES NUMBER IS 21955
 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
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

811 SAFETY ALERT

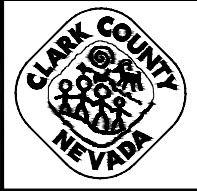
Call Before You Dig
 Know what's below
 Call before you dig
 1-800-227-2929

UNION PACIFIC RAILROAD

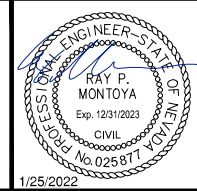
Call Before You Dig
 1-800-336-9193

UnderGround

Call before you dig
 1-800-432-5300



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)
36" & 24" WATER MAIN - PLAN AND PROFILE STA 177+50 TO STA 185+50
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



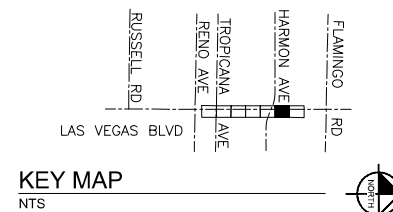
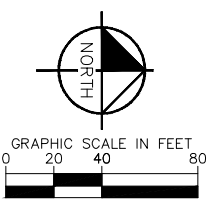
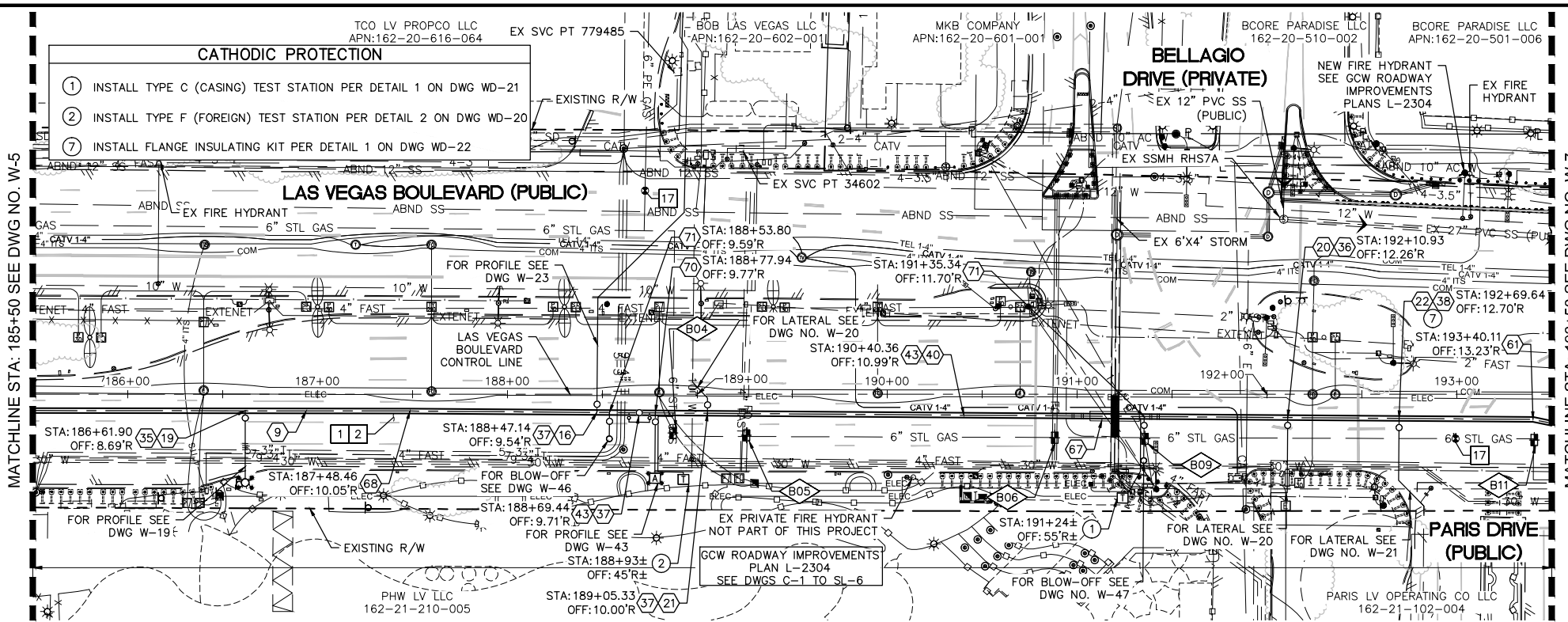
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: 1" = 4'
 APPROVED BY: FIELD BOOK:

Kimley Horn

6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

DRAWING NO. **W-5**
 SHEET 10 OF 80
 L-2304

Users: Kimley-Horn; Path: \\usf01\mnt_luc\luc\mfr\p03000_Las Vegas Blvd Waterline W-17.dwg; This document, together with the contracts and designs presented herein, is an instrument of service, to be retained by the client for the specific purpose and client for which it was prepared. Reuse of any information contained herein is prohibited without the written authorization of Kimley-Horn and Associates, Inc. and be without liability to Kimley-Horn and Associates, Inc.



CONSTRUCTION INDEX

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16 INSTALL 12" X 10" TEE, RESTRAIN JOINTS
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20 INSTALL 24" X 8" TEE, RESTRAIN JOINTS
21 INSTALL 24" X 10" TEE, RESTRAIN JOINTS
22 INSTALL 24" X 12" TEE, RESTRAIN JOINTS
35 INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
36 INSTALL 8" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
37 INSTALL 10" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
38 INSTALL 12" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
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61 INSTALL 24" X 11.25" MJ BEND, RESTRAIN JOINTS
67 INSTALL PIPE CASING PER DETAIL 1 ON DWG WD-10
68 HORIZONTAL DEFLECTION, RESTRAIN JOINTS
70 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
71 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9
78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.

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
NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

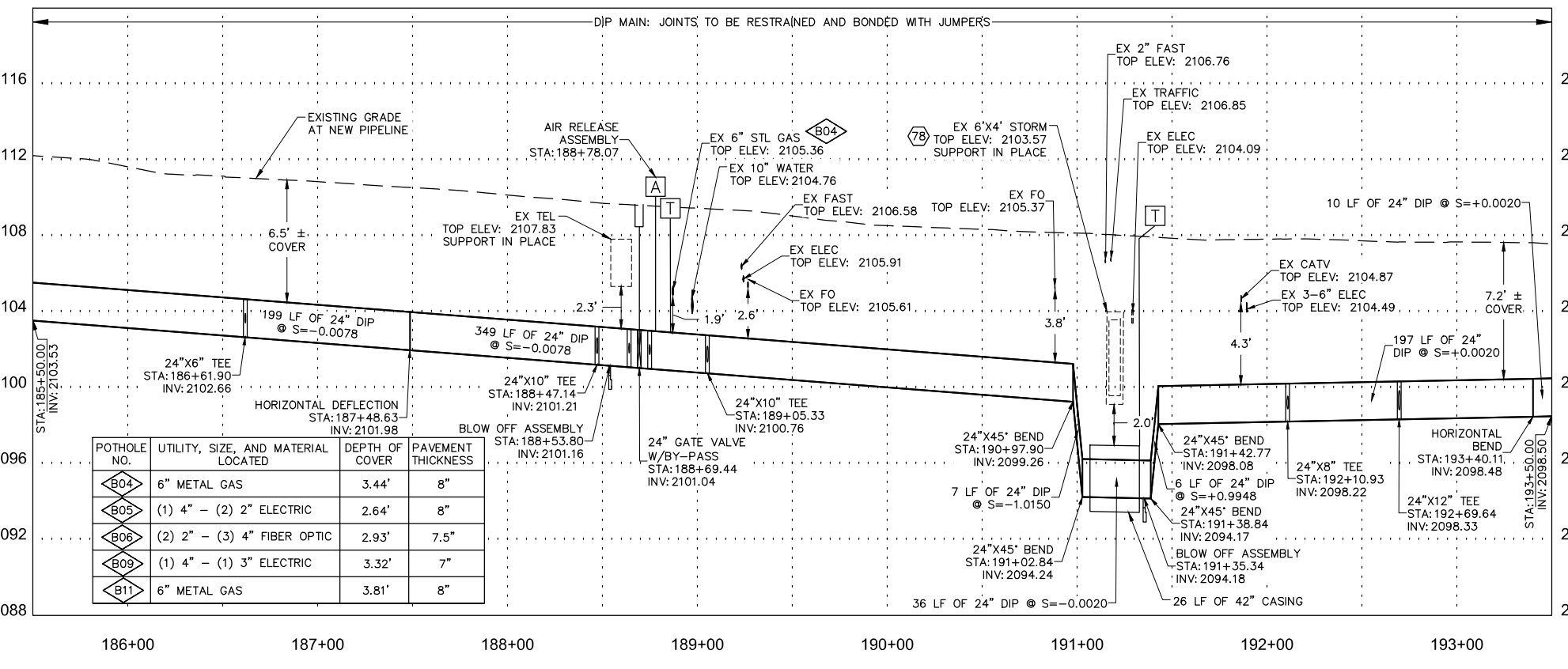


Table with 4 columns: POTHOLE NO., UTILITY, SIZE, AND MATERIAL LOCATED, DEPTH OF COVER, PAVEMENT THICKNESS. Lists potholes B04 through B11 with their respective utility details.

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
17 CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VALVE CANS TO GRADE. SEE SWG NOTE 3 ON WG-4

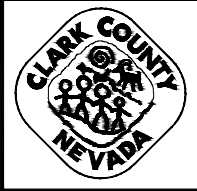
FIRE DEPARTMENT APPROVAL
BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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CCWRD APPROVAL

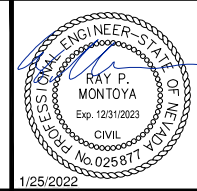
DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
CLARK COUNTY WATER RECLAMATION DISTRICT DATE
CCWRD PIPES NUMBER IS 21.955
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION
DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22



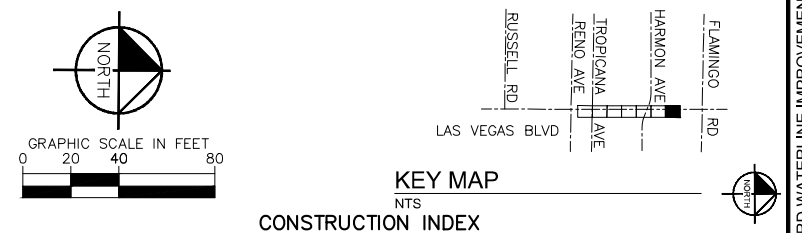
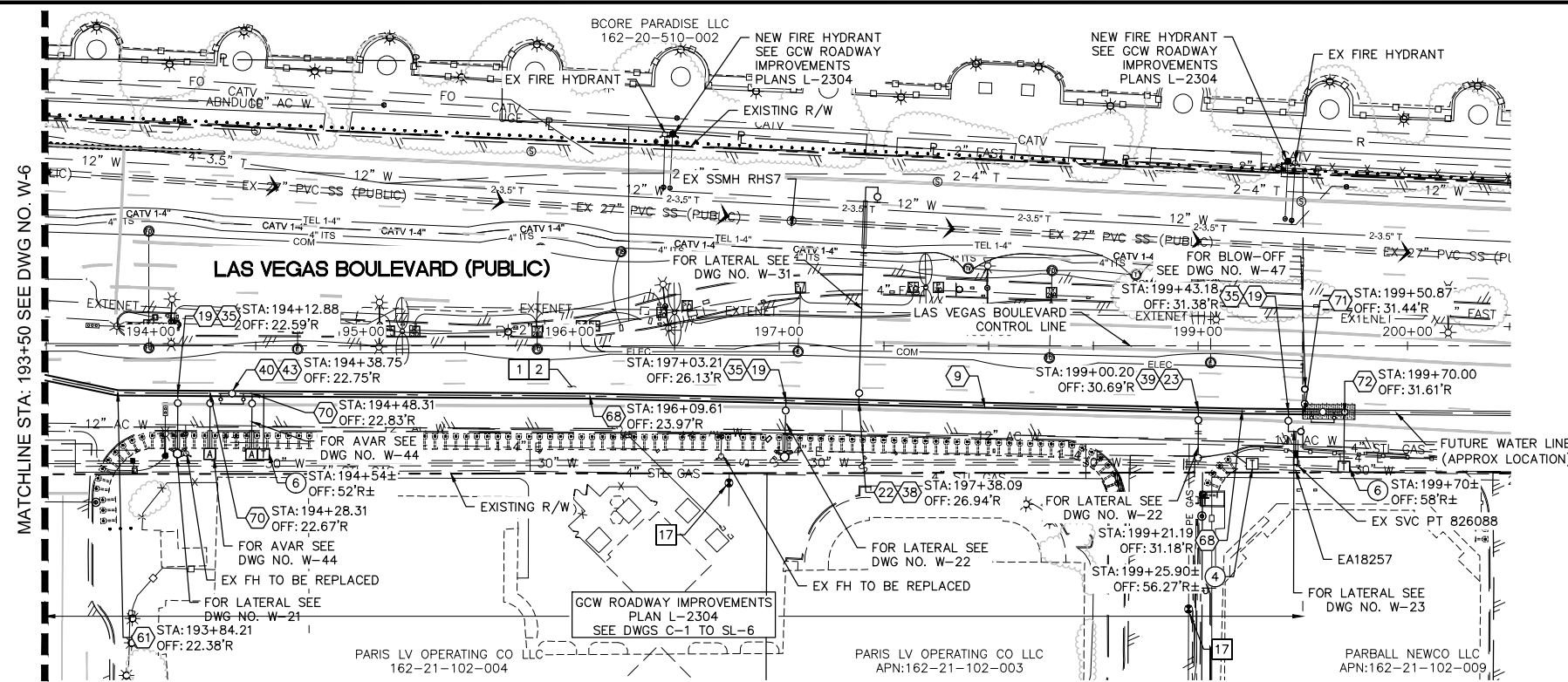
LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)
24" WATER MAIN - PLAN AND PROFILE STA 185+50 TO STA 193+50
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



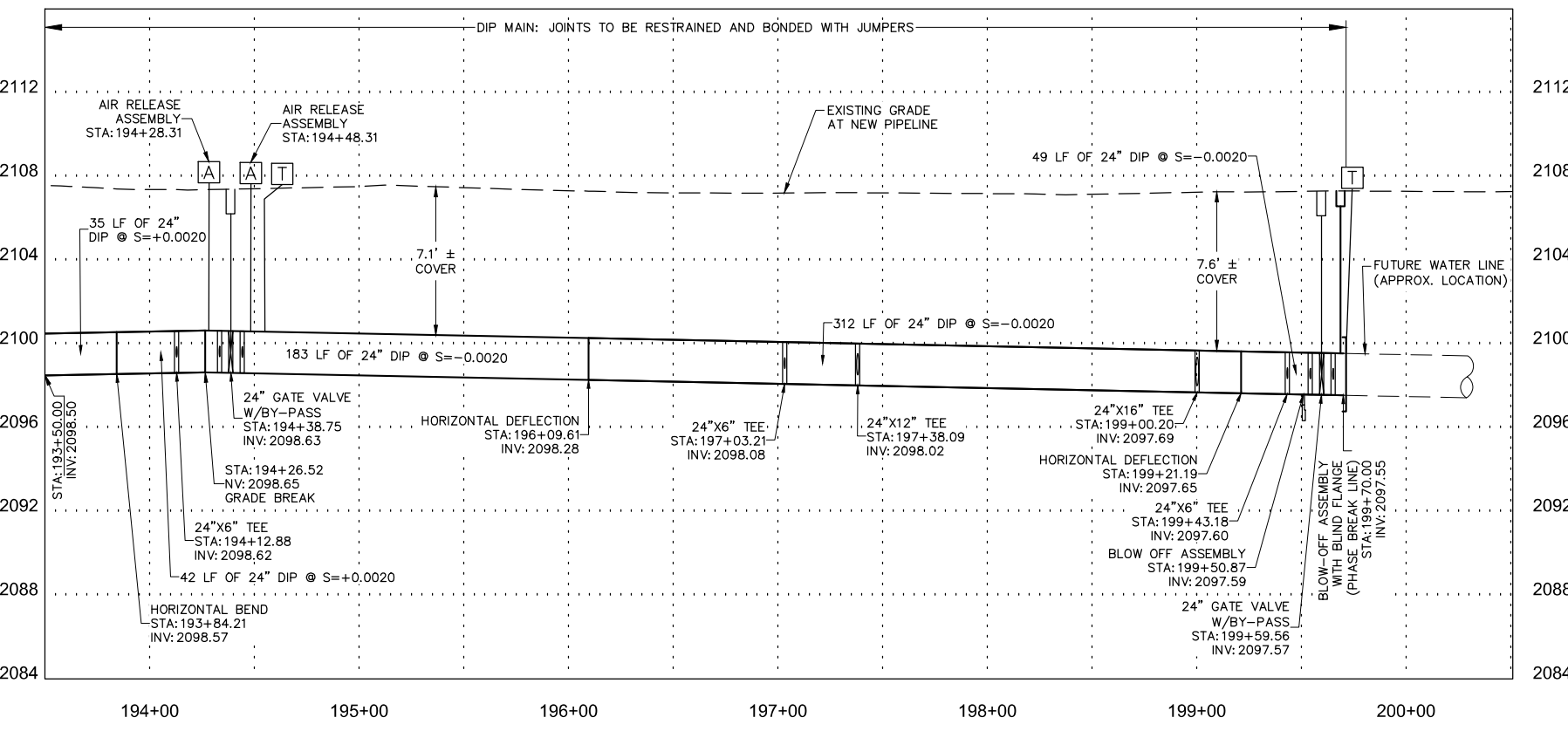
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DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM HORIZ: 1" = 40'
APPROVED BY: VERT: 1" = 4'
Kimley-Horn 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3500

DRAWING NO. W-6
SHT. 11 OF 80
L-2304

User: K:\Projects\2023\123000_Las Vegas Blvd Waterline Replacement - Tropicana Ave to Flamingo Rd - W-7.dwg
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 - 22 INSTALL 24" X 12" TEE, RESTRAIN JOINTS
 - 23 INSTALL 24" X 16" TEE, RESTRAIN JOINTS
 - 35 INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 38 INSTALL 12" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 39 INSTALL 16" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 40 INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
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 - 61 INSTALL 24" X 11.25" MJ BEND, RESTRAIN JOINTS
 - 68 HORIZONTAL DEFLECTION, RESTRAIN JOINTS
 - 70 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
 - 71 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9
 - 72 INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLATE 36 ON DWG WD-16



- 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
 - 17 CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VALVE CANS TO GRADE. SEE SWG NOTE 3 ON WG-4
- CATHODIC PROTECTION**
- 4 INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 3 ON DWG WD-20
 - 6 INSTALL TYPE T (TYPICAL) TEST STATION PER DETAIL 2 ON DWG WD-21

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS 21.955

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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

UnderGround
CALL BEFORE YOU DIG
1-702-432-5300

NO.	REVISIONS	DATE

CLARK COUNTY NEVADA
LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
 24" WATER MAIN - PLAN AND PROFILE STA 193+50 TO STA 200+50
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROFESSIONAL ENGINEER - STATE OF NEVADA
 RAY P. MONTOYA
 Exp. 12/31/2023
 No. 025871
 CIVIL
 1/25/2022

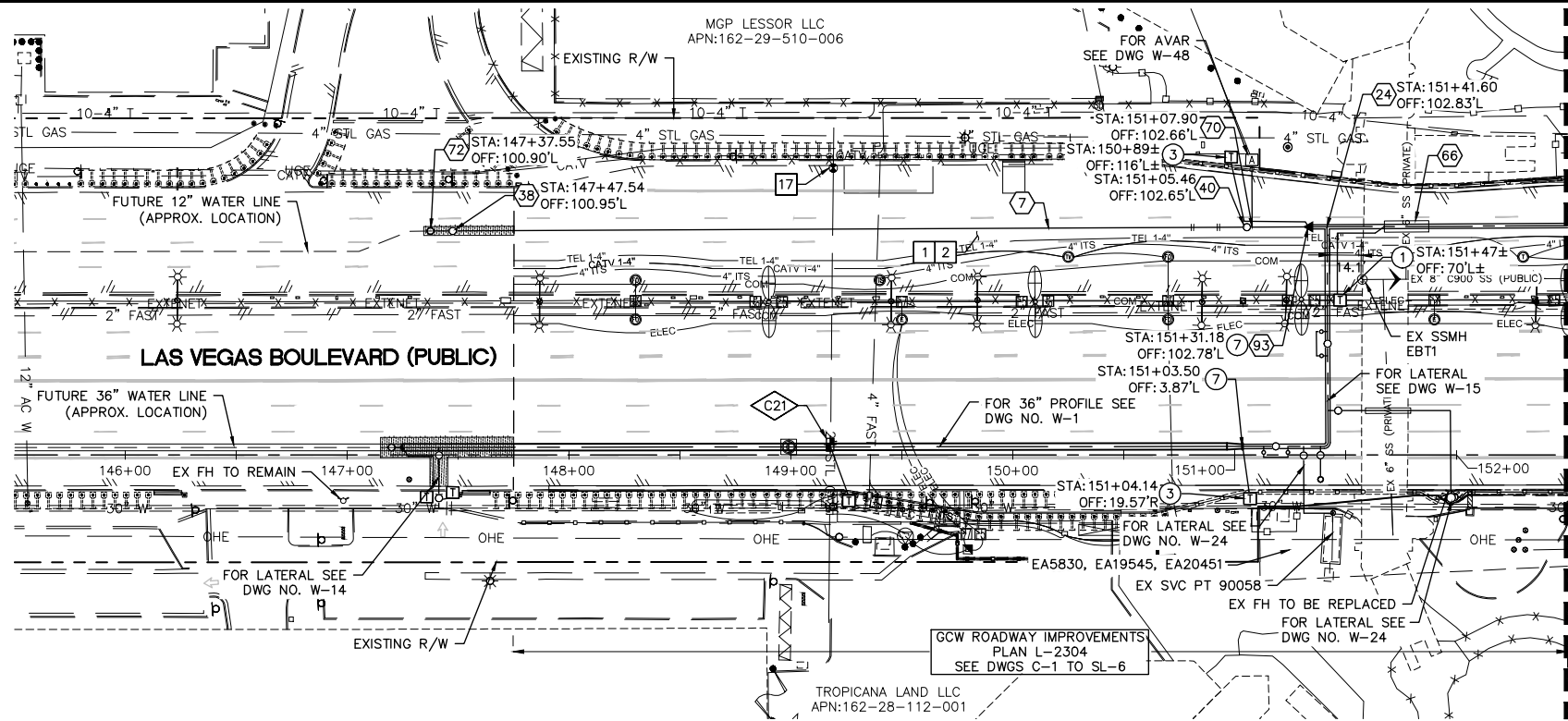
PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE: HORIZ: 1" = 40'

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: 1" = 4'

APPROVED BY: **Kimley»Horn**
 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

DRAWING NO. **W-7**
 SHT. 12 OF 80
 L-2304

User: H:\proj\17-18_WB-WP.dwg
 Plot: \\\sfs01\17-18_WB-WP.dwg
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NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)



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 - ②④ INSTALL 24" X 24" TEE, RESTRAIN JOINTS
 - ③⑧ INSTALL 12" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - ④⑩ INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
 - ⑥⑥ INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
 - ⑦⑩ INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
 - ⑦⑫ INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLATE 36 ON DWG WD-16
 - ⑨③ INSTALL 24" X 12" REDUCER, RESTRAIN JOINTS

- 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
 - ⑬ CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VALVE CANS TO GRADE. SEE SWG NOTE 3 ON WG-4
 - ④⑧ EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS

- CATHODIC PROTECTION**
- ① INSTALL TYPE C (CASING) TEST STATION PER DETAIL 1 ON DWG WD-21
 - ③ INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 1 ON DWG WD-20
 - ⑦ INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
②①	2" METAL GAS	3.85'	5.5"

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21.955
 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

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

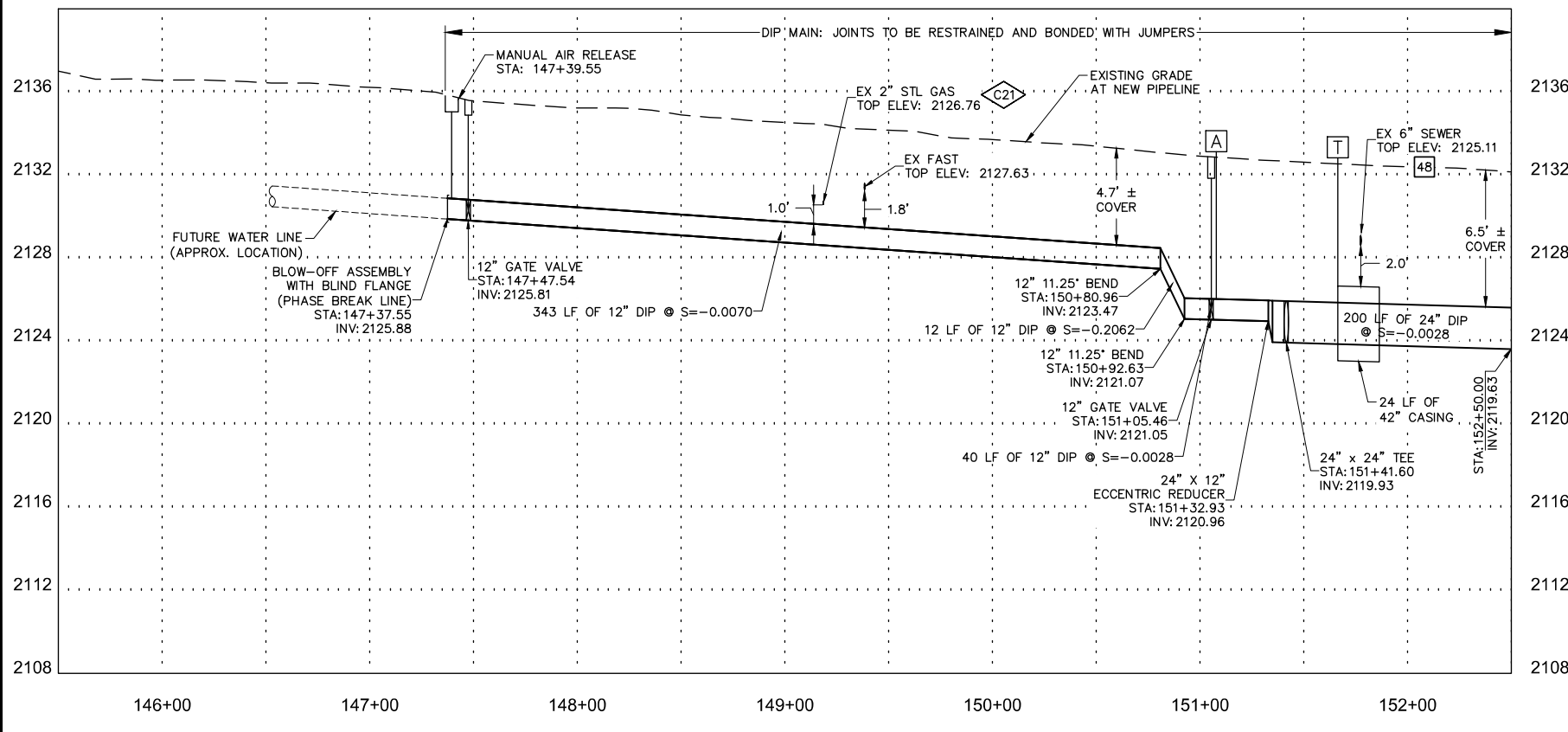
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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 1-800-336-9193

UnderGround
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 1-702-432-5300
 PREVENT AND AVOID COSTLY DISRUPTIONS



NO.	REVISIONS	DATE

CLARK COUNTY NEVADA

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" & 24" WATER MAIN - PLAN AND PROFILE STA 145+50 TO STA 152+50

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROFESSIONAL ENGINEER - STATE OF NEVADA

RAY P. MONTOYA
 Exp. 12/31/2023
 CIVIL
 No. 025871

Kimley Horn

6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 882-3500

PROJECT No. 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE

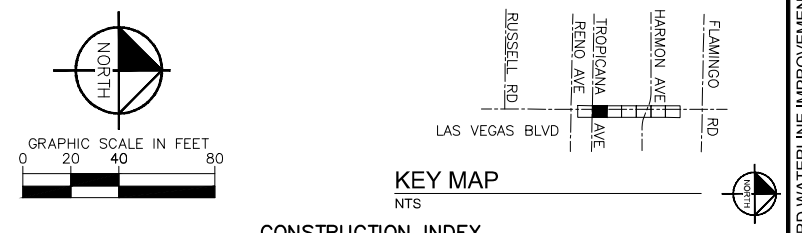
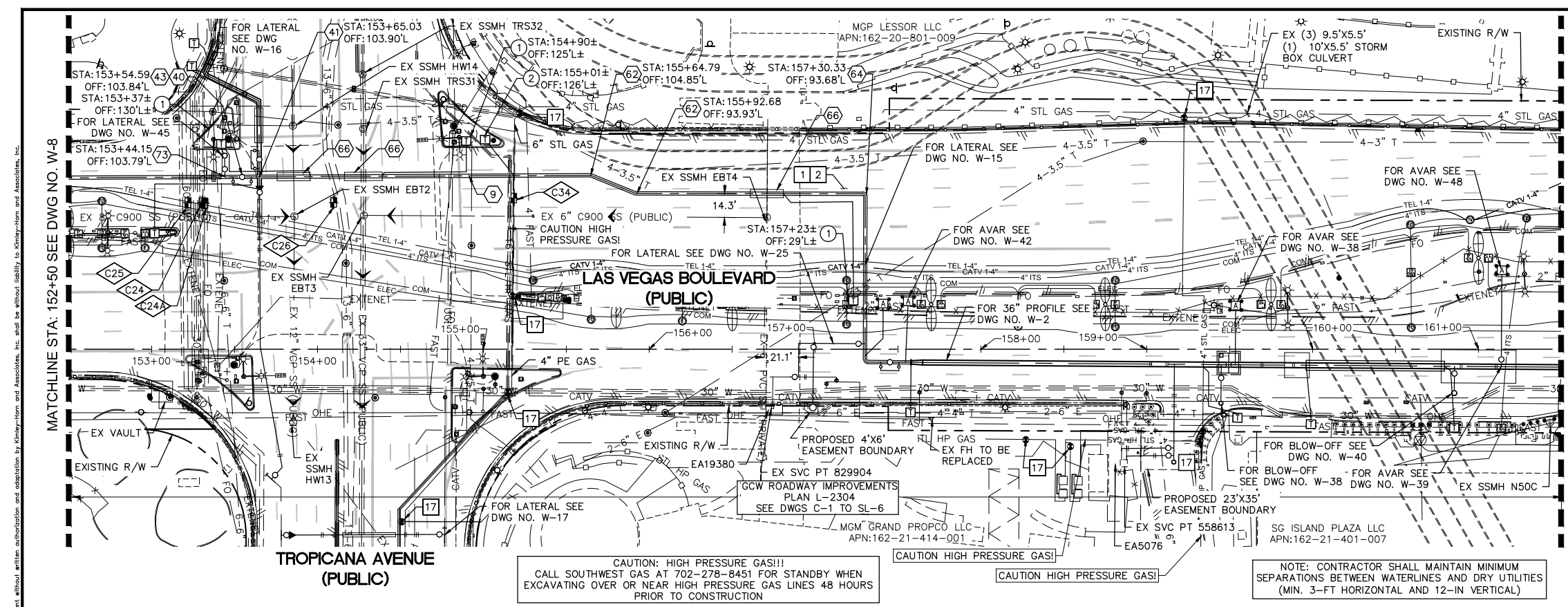
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APPROVED BY: VERT: 1" = 4'

FIELD BOOK

DRAWING NO. **W-8** SHT. 13 OF 80

L-2304

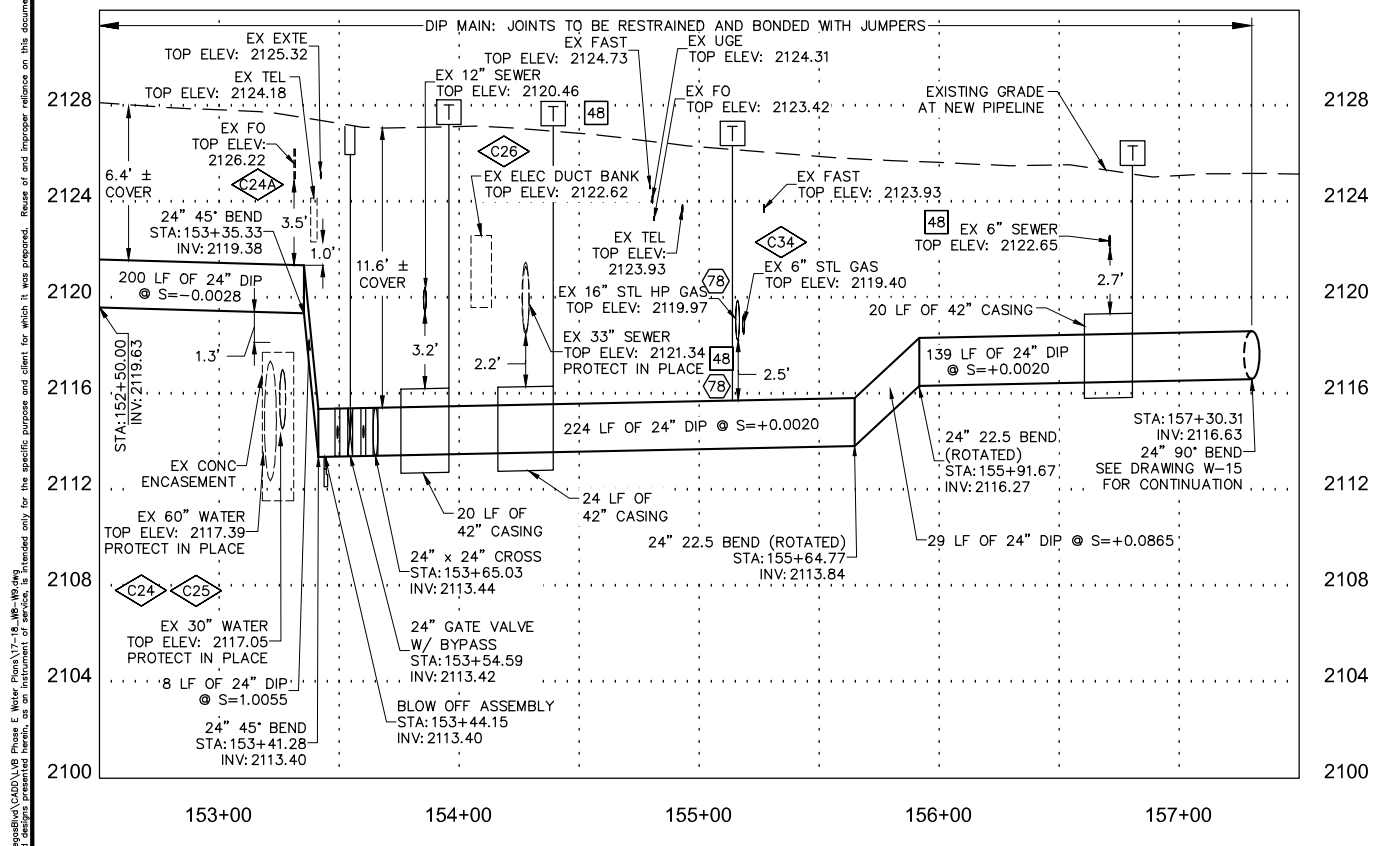


- CONSTRUCTION INDEX**
- ⑨ INSTALL 24" DIP, RESTRAIN AND BOND ALL JOINTS
 - ④⑩ INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
 - ④① INSTALL 24" x 24" CROSS, RESTRAIN JOINTS
 - ④③ INSTALL 6" DIP BYPASS ASSEMBLY W/ 6" GATE VALVES, RESTRAIN JOINTS (NOT THRUST BLOCKED), PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 3 DWG WD-11
 - ⑥② INSTALL 24" x 22.5" BEND, RESTRAIN JOINTS
 - ⑥④ INSTALL 24" x 90° BEND, RESTRAIN JOINTS
 - ⑥⑥ INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
 - ⑦③ INSTALL 6" BLOW-OFF ASSEMBLY PER UDACS PLATE 37 ON DWG WD-16
 - ⑦⑧ SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.

- 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
 - ①⑦ CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VALVE CANS TO GRADE. SEE SWG NOTE 3 ON W-4
 - ④⑧ EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS

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

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)



POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
④②④	±74.5" CONCRETE WATER	10.96'	7"
④②④④	16" CONCRETE ENCASED FIBER OPTIC	2.24'	7.5"
④②⑤	60" CONCRETE WATER	9.44'	7"
④②⑥	8.6" CONCRETE ELECTRIC	4.50'	10"
④③④	10" METAL GAS	6.84'	7"
④③⑦①	1.5" UNKNOWN METAL UTILITY	4.90'	7"
④③⑦②	UNKNOWN CONCRETE UTILITY	6.77'	7"
④③⑦③	50' CONCRETE STORM CULVERT	4.60'	7"

- CATHODIC PROTECTION**
- ① INSTALL TYPE C (CASING) TEST STATION PER DETAIL 1 ON DWG WD-21
 - ② INSTALL TYPE F (FOREIGN) TEST STATION PER DETAIL 2 ON DWG WD-20

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS 21.955

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION


DIGITALLY SIGNED BY JASON GHADERI

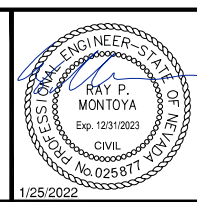
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22



NO.	REVISIONS	DATE

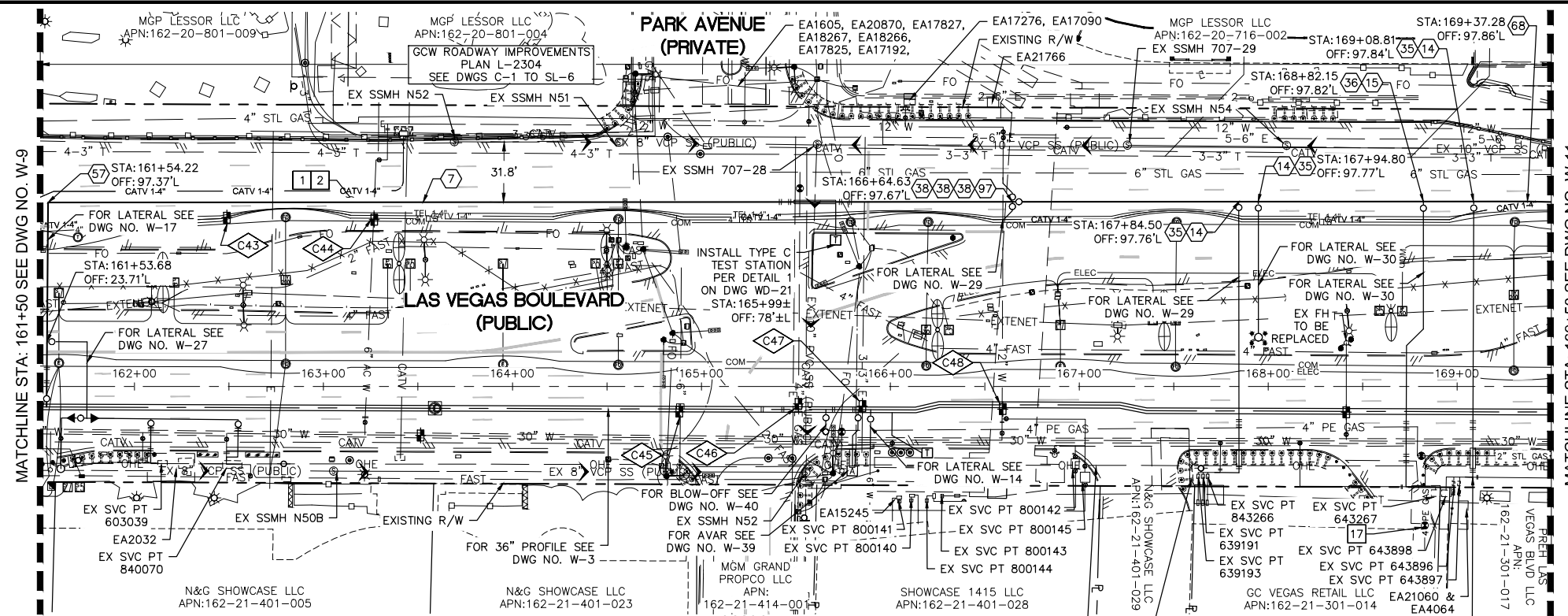

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
 24" & 12" WATER MAIN - PLAN AND PROFILE STA 152+50 TO STA 161+50
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No. 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM HORIZ: 1" = 40'
 APPROVED BY: _____ VERT: 1" = 4'
Kimley»Horn FIELD BOOK
6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

DRAWING NO. **W-9**
 SHT. 14 OF 80
 L-2304

User: J44-Engineer; Path: \\sfs\proj\12000_Las Vegas Blvd Waterline Replacement - Tropicana Ave to Flamingo Rd - W10 - W11 - Recovery.dwg; Plot: \\sfs\proj\12000_Las Vegas Blvd Waterline Replacement - Tropicana Ave to Flamingo Rd - W10 - W11 - Recovery.dwg; This document, together with the contracts and designs presented herein, is an instrument of service, to be used only for the specific purpose and client for which it was prepared. Reuse of any information or data on this document without written authorization and signature by Kimley-Horn and Associates, Inc. and its without liability to Kimley-Horn and Associates, Inc.



- ### CONSTRUCTION INDEX
- 7 INSTALL 12" DIP, RESTRAIN AND BOND ALL JOINTS
 - 14 INSTALL 12" X 6" TEE, RESTRAIN JOINTS
 - 15 INSTALL 12" X 8" TEE, RESTRAIN JOINTS
 - 35 INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 36 INSTALL 8" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 38 INSTALL 12" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 57 INSTALL 12" X 90° BEND, RESTRAIN JOINTS
 - 68 HORIZONTAL DEFLECTION, RESTRAIN JOINTS
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 97 INSTALL 12" X 12" CROSS, RESTRAIN JOINTS

- ### 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
 - 17 CONTACT SWG CONSTRUCTION AT 702-528-7881 TO ADJUST VAVLE CANS TO GRADE. SEE SWG NOTE 3 ON WG-4
 - 48 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS

POTHOLE NO.	UTILITY, SIZE, AND MATERIAL LOCATED	DEPTH OF COVER	PAVEMENT THICKNESS
C43	DRY HOLE	5.00'	6"
C44	UNKNOWN WATER	4.52'	8"
C45	(2) 3" PLASTIC ELEC/SL	2.70'	8"
C46	30" CONCRETE WATER	9.92'	6"
C47	93" CONCRETE ENCASED ELECTRIC	6.41'	14"
C48	10" PLASTIC WATER	5.08'	8"

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS 21.955

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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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 Dig

UnderGround

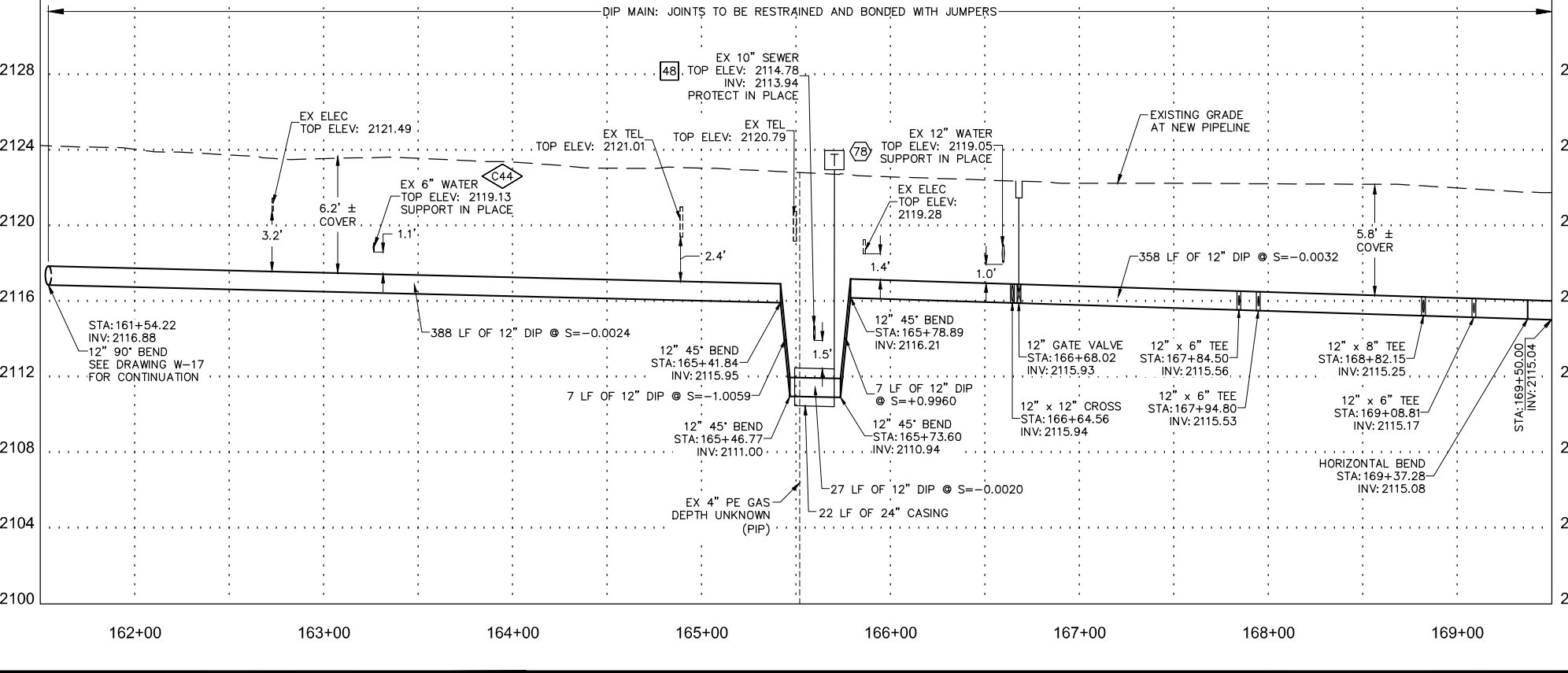
1-702-432-5300

RESOLVE AND AVOID SYSTEMS & TRANSDUCERS

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

FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)



NO.	REVISIONS	DATE

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" WATER MAIN - PLAN AND PROFILE STA 161+50 TO STA 169+50

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

1/25/2022

PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: _____

6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE

HORIZ: 1" = 40'

VERT: 1" = 4'

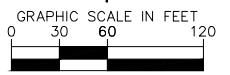
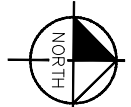
FIELD BOOK

DRAWING NO.

W-10

SHT. 15 OF 80

L-2304



CONSTRUCTION NOTES

- 18 EXISTING FIRE HYDRANT TO REMAIN IN SERVICE PER NOTE 6 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 19 POINT OF CONNECTION
- 26 ABANDON IN PLACE EXIST. 6" SERVICE LATERAL PER NOTE 4 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 27 ABANDON IN PLACE EXIST. 8" SERVICE LATERAL PER NOTE 4 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 31 ABANDON IN PLACE EXIST. 12" MAIN PIPE PER NOTE 2 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 33 ABANDON IN PLACE EXIST. 30" 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
- 35 ABANDON EXISTING FIRE HYDRANT AND LATERAL PER NOTE 5 OF LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 37 ABANDON VAULT PER DETAIL 3 ON DWG WD-12
- 39 ABANDON ABOVE-GROUND AVAR APPURTENANCE AND LATERAL PIPING PER LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 42 EXISTING WATERLINE TO BE CAPPED PER LVVWD SYSTEM ABANDONMENT NOTES ON DWG WG-3
- 44 NEW FIRE HYDRANT LOCATION

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. PREVIOUSLY SIGNED BY ED KAMINSKI 3/21/22
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

ZZZZ 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.



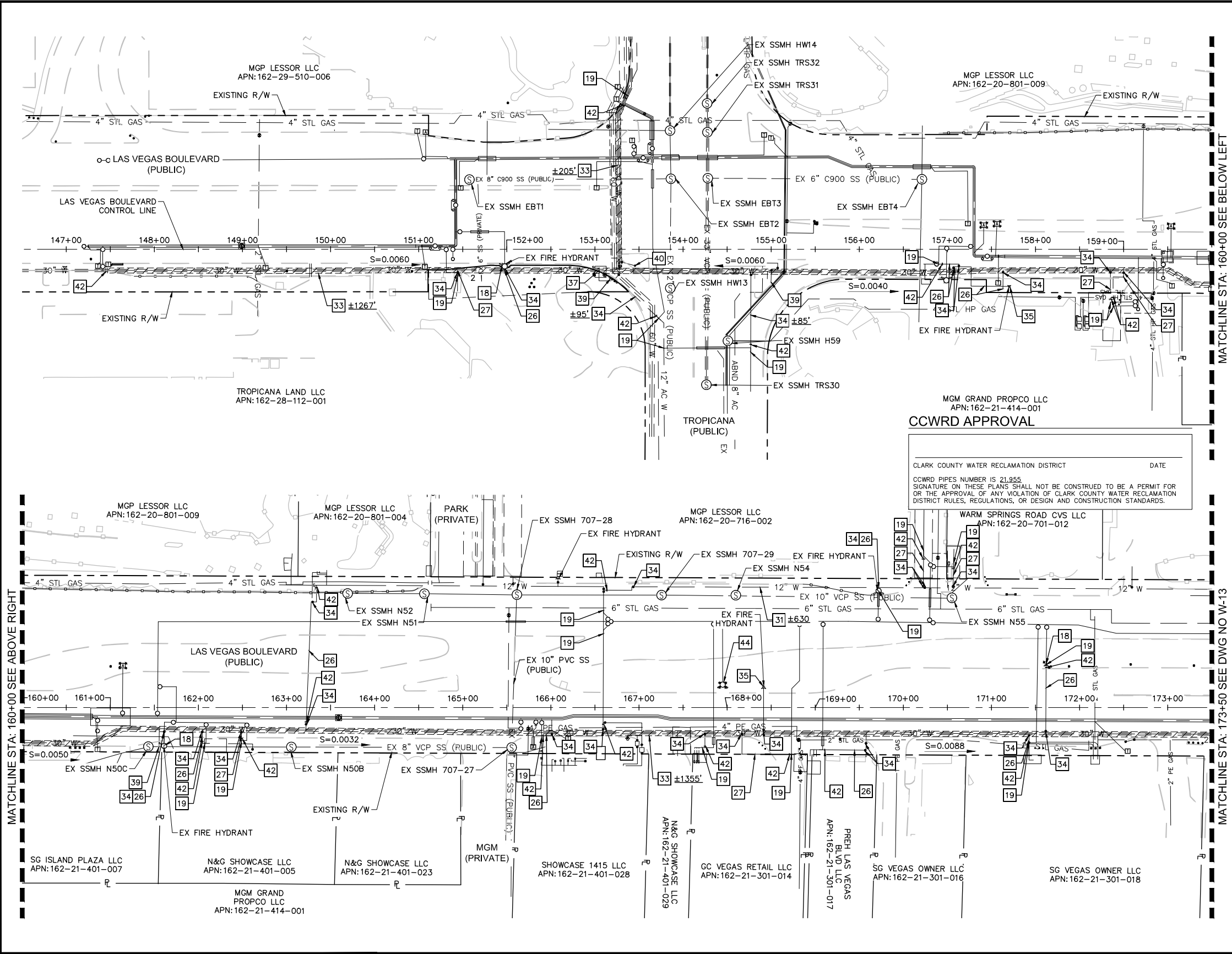
SAFETY ALERT
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

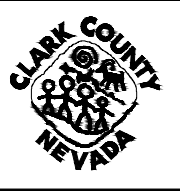
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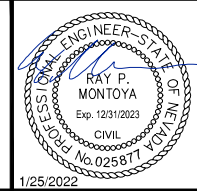
CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT DATE _____
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NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)
 WATER ABANDONMENT PLAN STA 146+50 TO STA 173+50
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



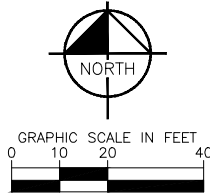
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____



SCALE	DRAWING NO.
HORIZ: 1" = 60'	W-12
VERT: N/A	SHT. 17 OF 80
FIELD BOOK	L-2304

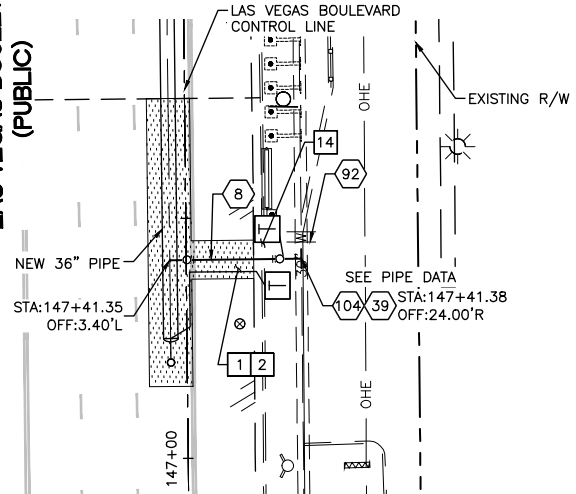
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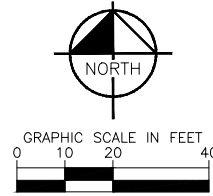
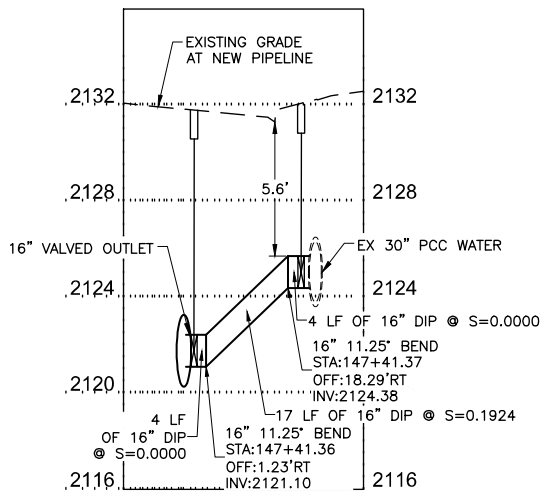


LAS VEGAS BOULEVARD (PUBLIC)

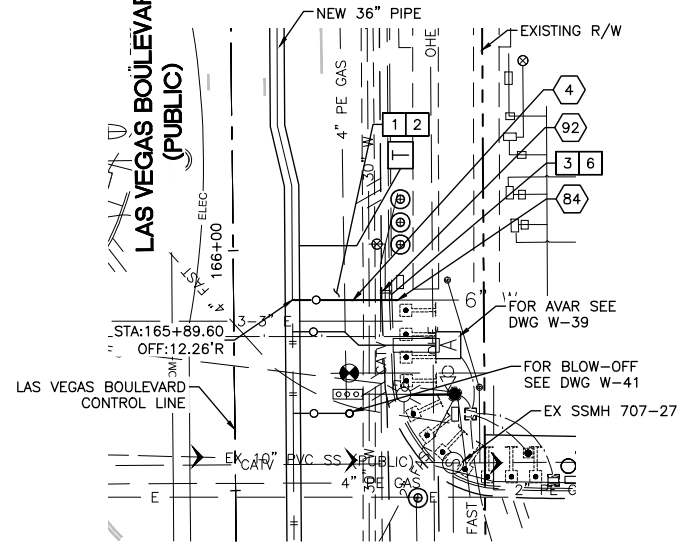
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CYLINDER THICKNESS:	0.1046"
LINING THICKNESS:	0.75"
COATING THICKNESS:	0.75"
ROD THICKNESS: (IF APPLICABLE)	0.3125"



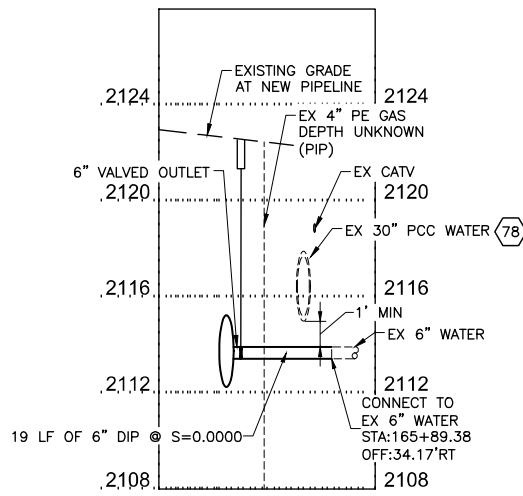
16" WATER MAIN CONNECTION
 STA: 147+41.35
 SEE DWG NO. W-1



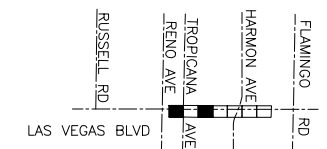
LAS VEGAS BOULEVARD (PUBLIC)



6" WATER LATERAL RECONNECTION
 STA: 165+89.60
 SEE DWG NO. W-3



FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.



KEY MAP
NTS

CONSTRUCTION INDEX

- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 8 INSTALL 16" DIP, RESTRAIN AND BOND ALL JOINTS
- 39 INSTALL 16" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 84 CONNECT TO EXISTING 6" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
- 104 30"x16" TAPPING SLEEVE AND VALVE PER DETAIL 2 ON DWG WD-10, DETAIL 4 ON DWG WD-11, AND UDACS PLATE NO. 34 ON DWG WD-15

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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
- 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
- 14 REPLACE COMMERCIAL DRIVEWAY PER CCAUSD DWG. NO. 224

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21955
 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

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

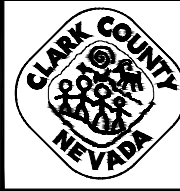
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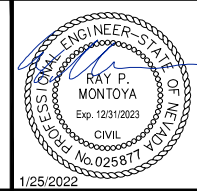
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 1-702-432-5300
 PREVENT AND AVOID COSTLY DISRUPTIONS

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

36" WATER MAIN - LATERAL PLAN AND PROFILE STA 147+41 & STA 165+89
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

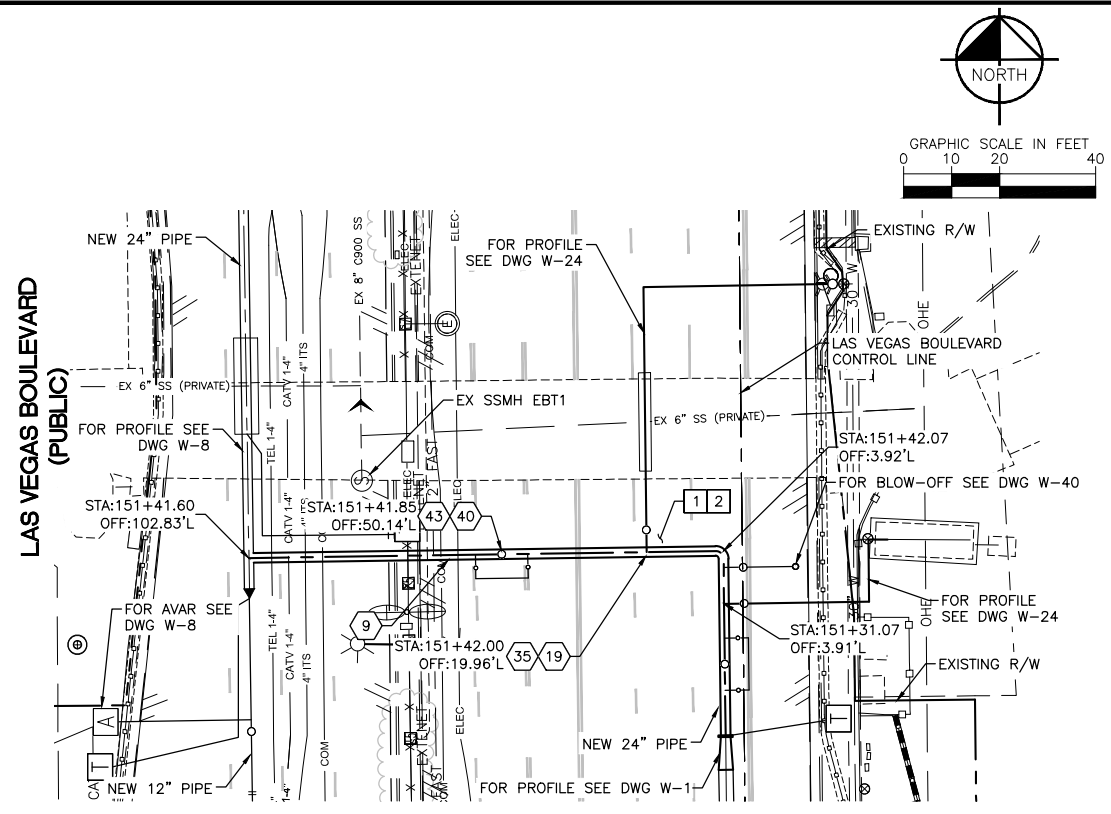


PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____

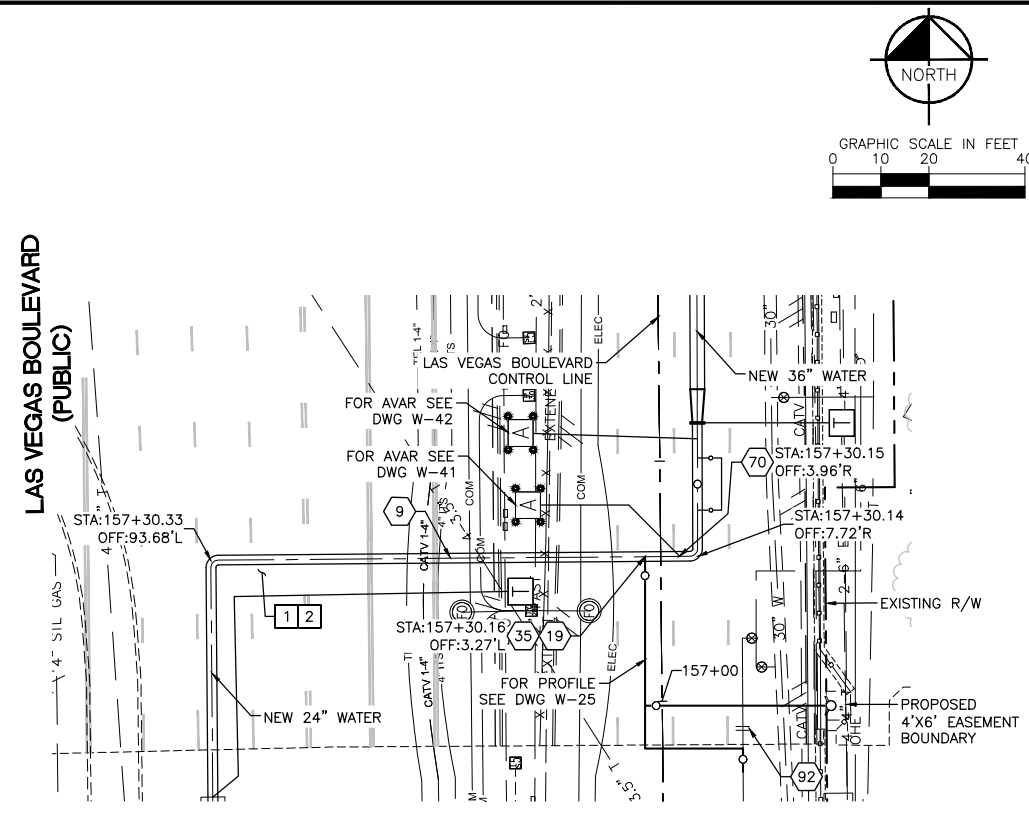


SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-14
VERT: 1" = 4'	SHT. 19 OF 80
FIELD BOOK	L-2304

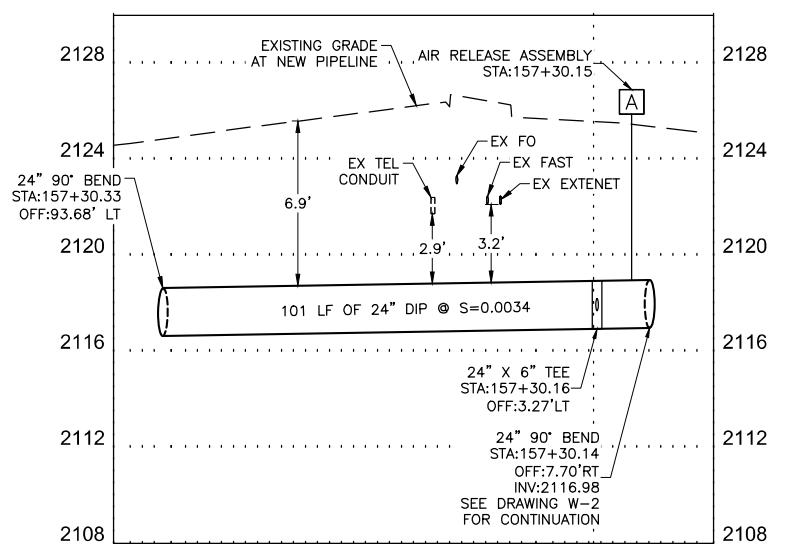
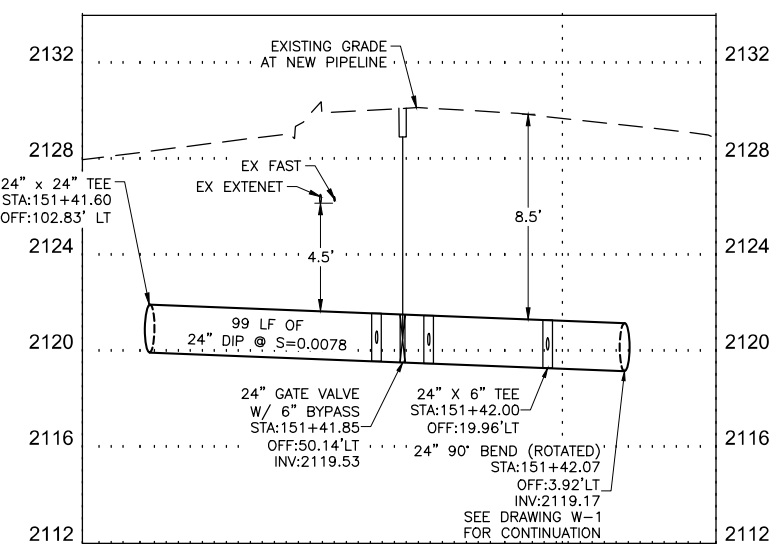
User: A4-Engineer; Path: C:\Users\A4-Engineer\Documents\Projects\2020\Las Vegas Blvd Waterline Replacement\Phase E Water Plans\20-W-1-15.dwg; This document, together with the concepts and designs presented herein, is an instrument of service. It is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and assent by Kimley-Horn and Associates, Inc. and its affiliates is prohibited.



24" WATER MAIN CONNECTION
STA: 151+41.60
SEE DWG NO. W-1



24" WATER MAIN CONNECTION
STA: 157+30.33
SEE DWG NO. W-2



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
 BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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CCWRD APPROVAL
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 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
 CCWRD PIPES NUMBER IS 21.955
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LVVWD APPROVAL
 APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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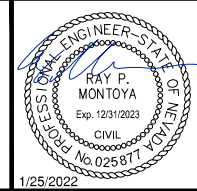
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NO.	REVISIONS	DATE



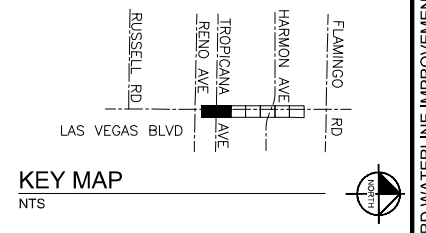
LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)
24" WATER MAIN - LATERAL PLAN AND PROFILE STA 151+41 & STA 157+30
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____

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 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-15
VERT: 1" = 4'	SHT. 20 OF 80
FIELD BOOK	L-2304



CONSTRUCTION INDEX

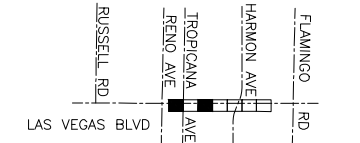
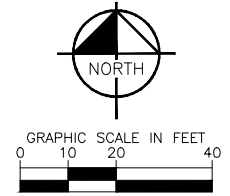
- 9 INSTALL 24" DIP, RESTRAIN AND BOND ALL JOINTS
- 19 INSTALL 24" X 6" TEE, RESTRAIN JOINTS
- 35 INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
- 40 INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
- 43 INSTALL 6" DIP BYPASS ASSEMBLY W/ 6" GATE VALVES, RESTRAIN JOINTS (NOT THRUST BLOCKED), PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 3 DWG WD-11
- 70 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
- 92 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

CATHODIC PROTECTION

- ③ INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 1 ON DWG WD-20
- ④ INSTALL TYPE I (INSULATED) TEST STATION PER DETAIL 3 ON DWG WD-20
- ⑤ INSTALL TYPE C/F TEST STATION (CASING/FOREIGN) PER DETAIL 4 ON DWG WD-20
- ⑦ INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22



KEY MAP
NTS

CONSTRUCTION INDEX

- ⑦ INSTALL 12" DIP, RESTRAIN AND BOND ALL JOINTS
- ⑨ INSTALL 24" DIP, RESTRAIN AND BOND ALL JOINTS
- ②④ INSTALL 24" X 24" TEE, RESTRAIN JOINTS
- ②⑨ INSTALL 12" X 12" TAPPING SLEEVE & VALVE PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 4 DWG WD-11
- ③⑧ INSTALL 12" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
- ④⑩ INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
- ④③ INSTALL 6" DIP BYPASS ASSEMBLY W/ 6" GATE VALVES, RESTRAIN JOINTS (NOT THRUST BLOCKED), PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 3 DWG WD-11
- ⑤④ INSTALL 12" X 11.25' BEND, RESTRAIN JOINTS
- ⑤⑤ INSTALL 12" X 22.5' BEND, RESTRAIN JOINTS
- ⑤⑥ INSTALL 12" X 45' BEND, RESTRAIN JOINTS
- ⑥② INSTALL 24" X 22.5' BEND, RESTRAIN JOINTS
- ⑥③ INSTALL 24" X 45' BEND, RESTRAIN JOINTS
- ⑥④ INSTALL 24" X 90' BEND, RESTRAIN JOINTS
- ⑥⑥ INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
- ⑨⑩ CONNECT TO EXISTING 30" PIPE PER DETAIL 5 ON DWG WD-13
- ⑨② CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
- ⑨③ INSTALL 24" X 12" REDUCER, RESTRAIN JOINTS
- ⑨⑧ INSTALL 30" X 24" MLTC REDUCER WITH WELDED FLANGE
- ⑩② INSTALL 30" MLTC PIPE, WELD ALL JOINTS

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

FIRE DEPARTMENT APPROVAL
 BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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CCWRD APPROVAL

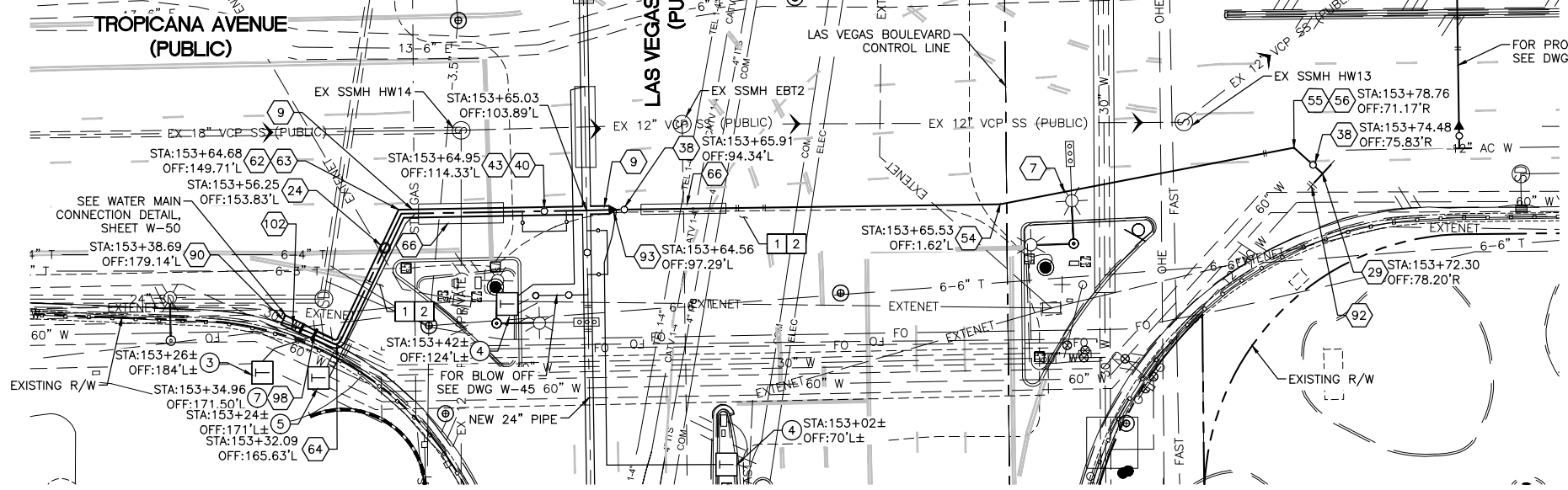
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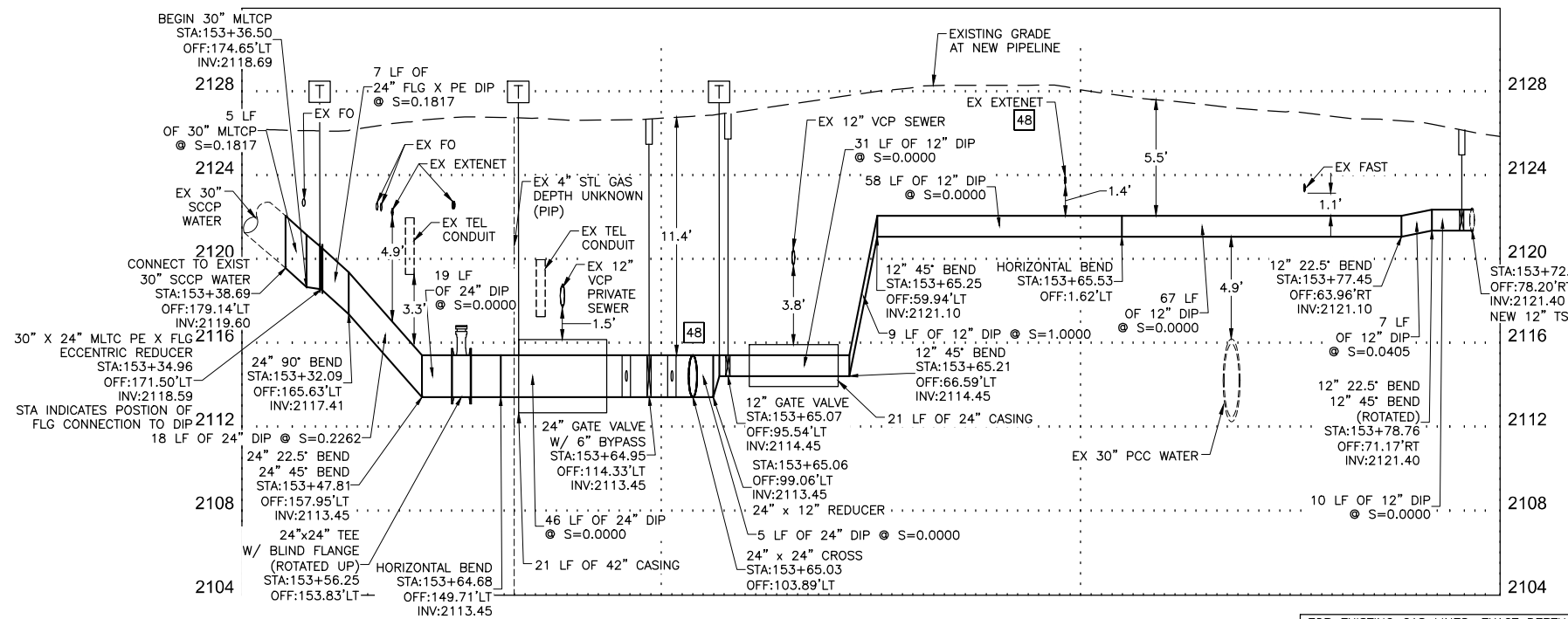
APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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 NEVER GO UNDERGROUND WITHOUT A CALL



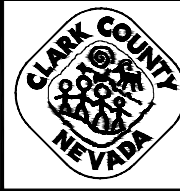
24" AND 12" WATER MAIN INTERCONNECTIONS
 STA: 153+65.03
 SEE DWG NO. W-9

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)

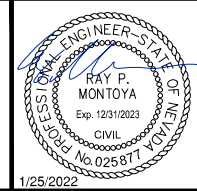


FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
 (PHASE E/F)
 24" & 12" WATER MAIN - LATERAL PLAN AND PROFILE STA 153+65
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

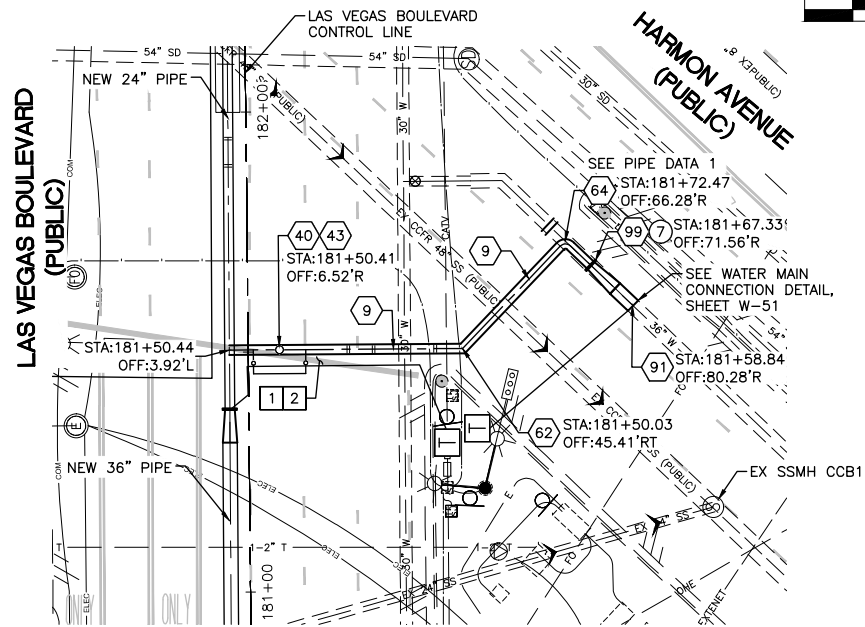
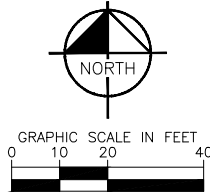


PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM HORIZ: 1" = 20'
 APPROVED BY: _____ VERT: 1" = 4'
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 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

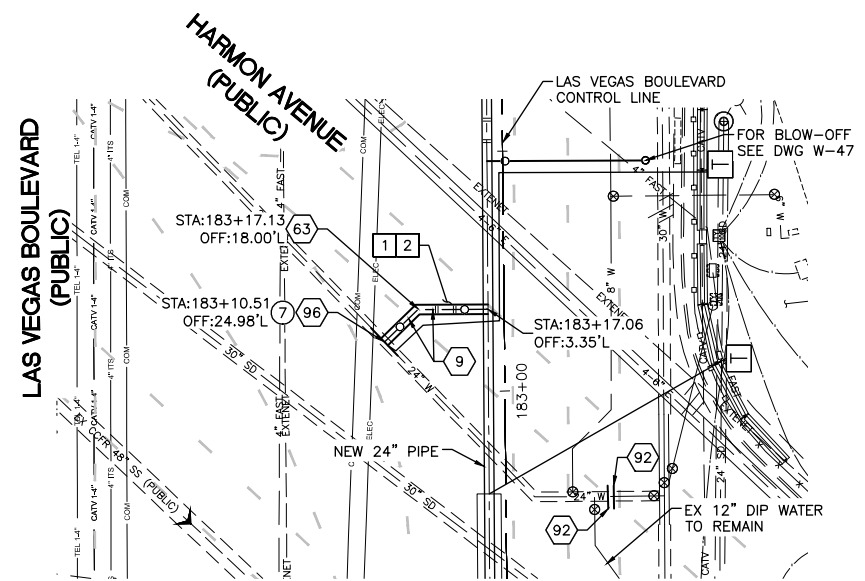
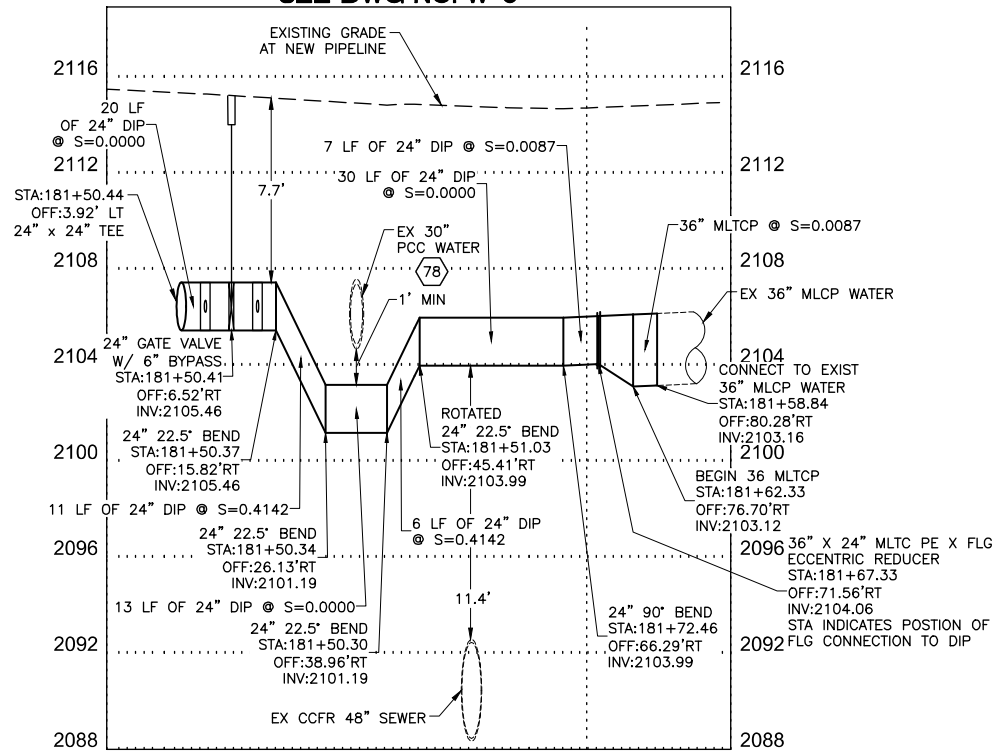
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	SHT. 21 OF 80
	L-2304

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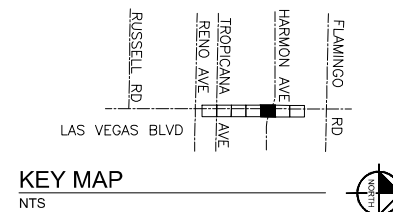
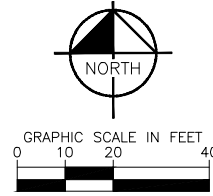
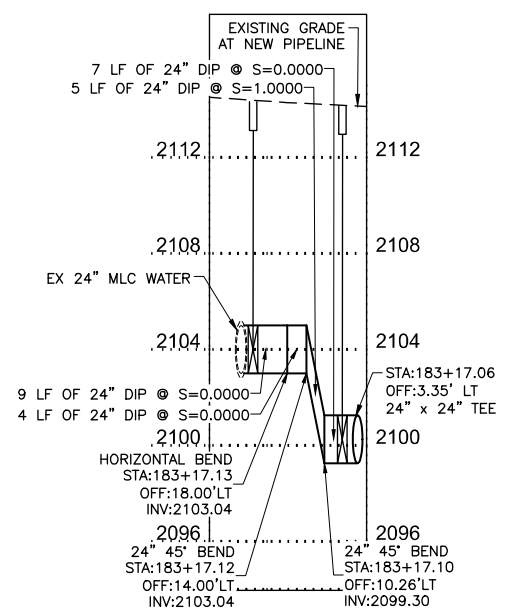
EXISTING 36" MLC PIPE DATA 1:
 STEEL CYLINDER OD: 37.878"
 CYLINDER THICKNESS: 0.1875"
 LINING THICKNESS: 0.75"
 COATING THICKNESS: 1"
 ROD THICKNESS: (IF APPLICABLE) -



24' WATER LATERAL RECONNECTION
STA: 181+50.44
 SEE DWG NO. W-5



24' WATER LATERAL RECONNECTION
STA: 183+17.06
 SEE DWG NO. W-5



- CONSTRUCTION INDEX**
- 9 INSTALL 24" DIP, RESTRAIN AND BOND ALL JOINTS
 - 40 INSTALL 24" GATE VALVE PER DETAILS 2 & 3 ON DWGS WD-10 & WD-11
 - 43 INSTALL 6" DIP BYPASS ASSEMBLY W/ 6" GATE VALVES, RESTRAIN JOINTS (NOT THRUST BLOCKED), PER DETAIL 2 ON DWG WD-10 & DETAIL 2 & 3 DWG WD-11
 - 62 INSTALL 24" X 22.5" BEND, RESTRAIN JOINTS
 - 63 INSTALL 24" X 45" BEND, RESTRAIN JOINTS
 - 64 INSTALL 24" X 90" BEND, RESTRAIN JOINTS
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 91 CONNECT TO EXISTING 36" PIPE
 - 92 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
 - 96 24" X 24" TAPPING SLEEVE & VALVE PER UDACS PLATE NOS. 34 & 35 ON DWGS WD-15 & WD-16
 - 99 INSTALL 36" X 24" MLTC REDUCER WITH WELDED FLANGE

- 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

- CATHODIC PROTECTION**
- 7 INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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LVVWD APPROVAL

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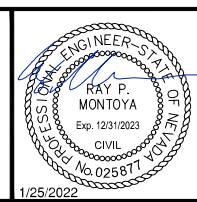
CLARK COUNTY NEVADA

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

24" WATER MAIN - LATERAL PLAN AND PROFILE STA 181+50 & STA 183+17

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

1/25/2022



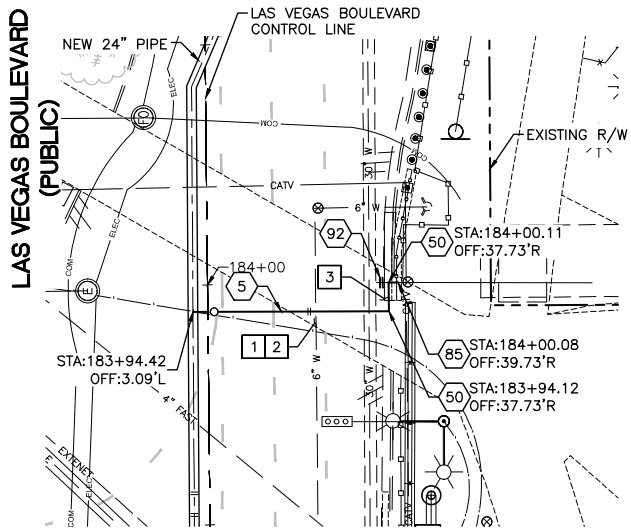
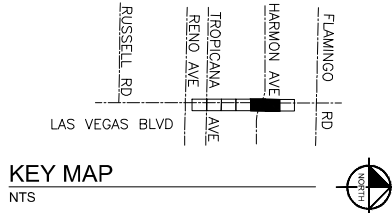
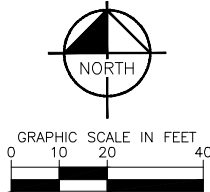
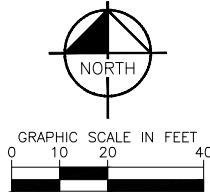
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
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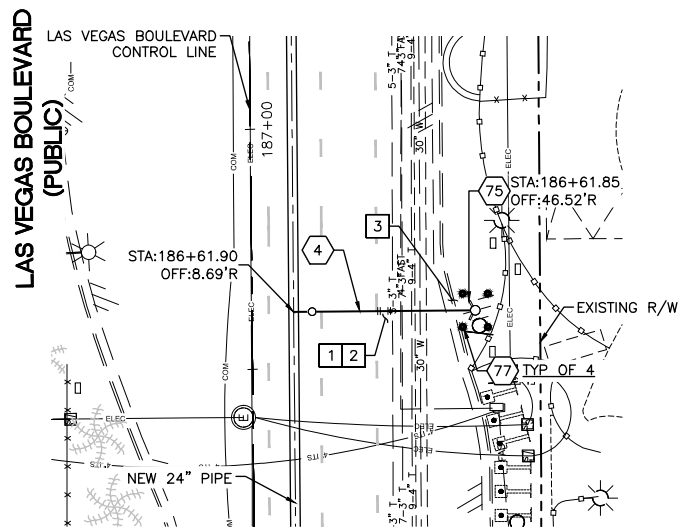
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	VERT: 1" = 4'	
FIELD BOOK		SHT. 23 OF 80
		L-2304

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8" WATER LATERAL RECONNECTION
 STA: 183+94.42
 SEE DWG NO. W-5



6" FIRE HYDRANT CONNECTION
 STA: 186+61.90
 SEE DWG NO. W-6

- CONSTRUCTION INDEX**
- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
 - 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
 - 50 INSTALL 8" X 90° BEND, RESTRAIN JOINTS
 - 75 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NOS. 40 AND 41 ON DWGS WD-17 & WD-18
 - 77 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 ON DWG WD-18
 - 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
 - 92 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216

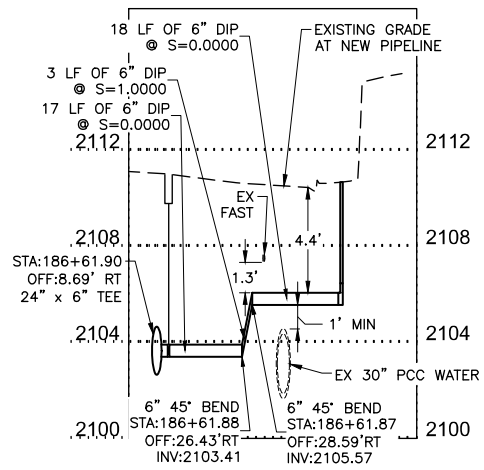
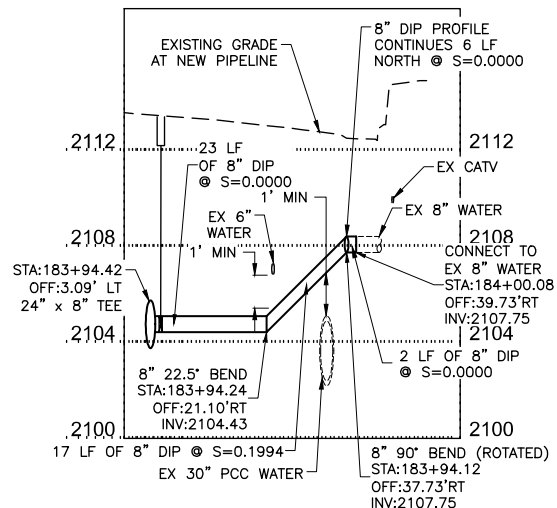
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FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21,955
 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

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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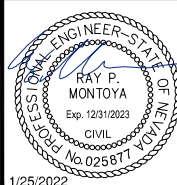
Call Before You UnderGround
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 PREPARE AND INSTALL YOUR OWN UNDERGROUND

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

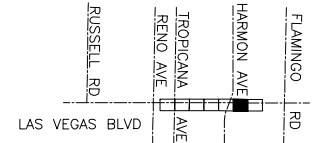
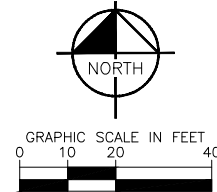
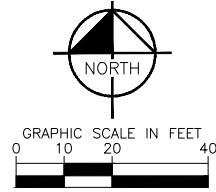
24" WATER MAIN - LATERAL PLAN AND PROFILE STA 183+94 & STA 186+61
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 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-19
VERT: 1" = 4'	SHT. 24 OF 80
FIELD BOOK	L-2304



KEY MAP
NTS

CONSTRUCTION INDEX

- 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
- 6 INSTALL 10" DIP, RESTRAIN AND BOND ALL JOINTS
- 50 INSTALL 8" X 90° BEND, RESTRAIN JOINTS
- 52 INSTALL 10" X 45° BEND, RESTRAIN JOINTS
- 66 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 86 CONNECT TO EXISTING 10" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
- 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)

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LVVWD APPROVAL

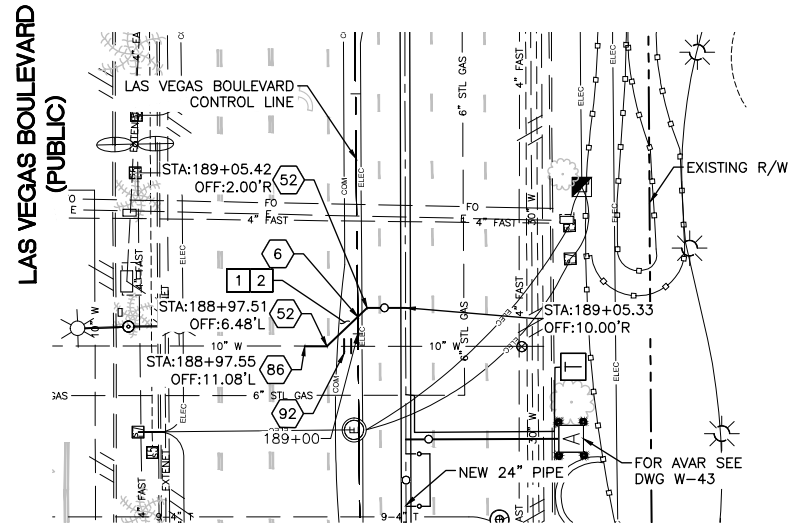
APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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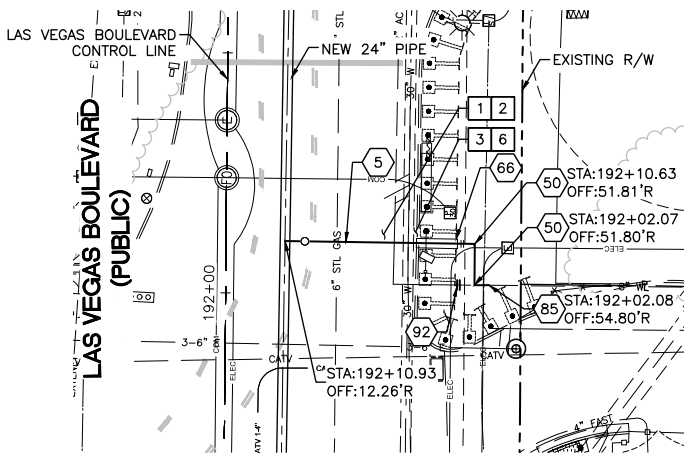
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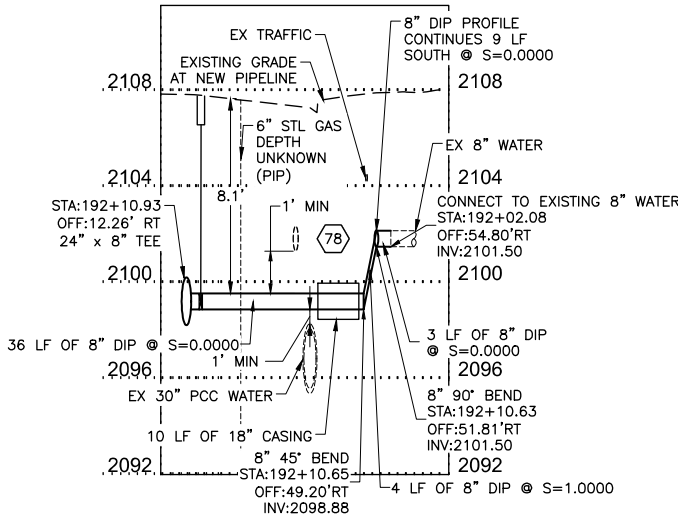
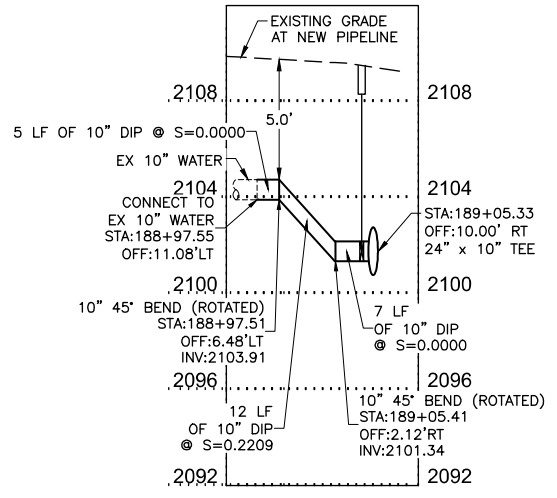
UnderGround
 CALL BEFORE YOU DIG
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 1-800-336-9193



10' WATER LATERAL RECONNECTION
 STA: 189+05.33
 SEE DWG NO. W-6

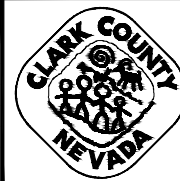


8' WATER LATERAL RECONNECTION
 STA: 192+10.93
 SEE DWG NO. W-6



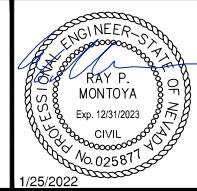
FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
 (PHASE E/F)

24" WATER MAIN - LATERAL PLAN AND PROFILE STA 189+05 & STA 192+10
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



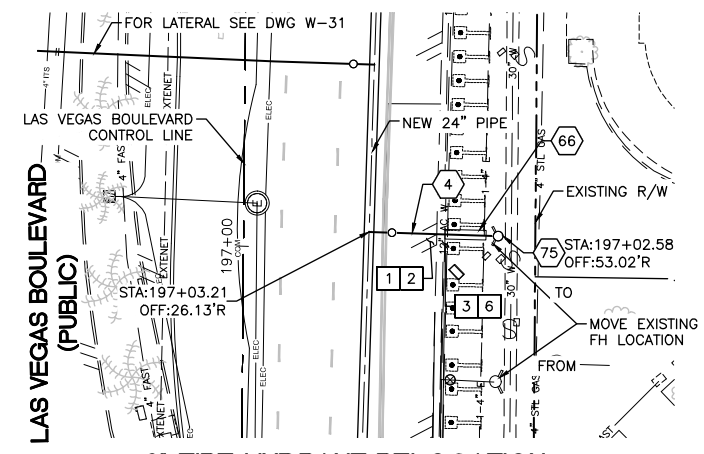
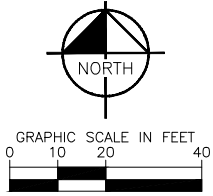
PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____



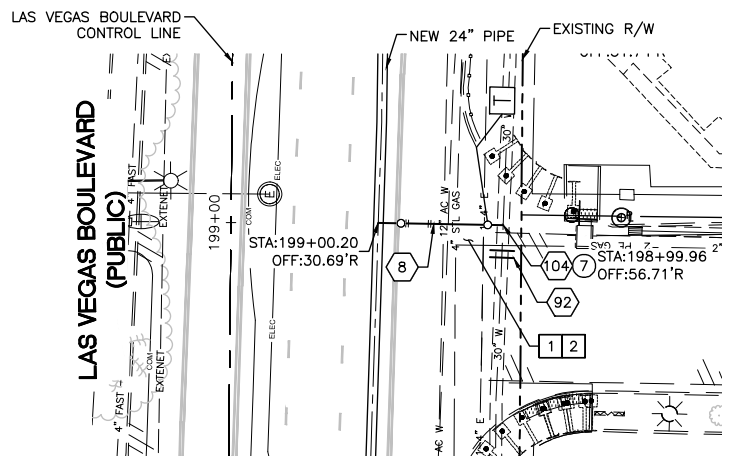
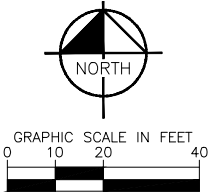
SCALE		DRAWING NO.
HORIZ:	1" = 20'	
VERT:	1" = 4'	
FIELD BOOK		SHT. 25 OF 80
		L-2304

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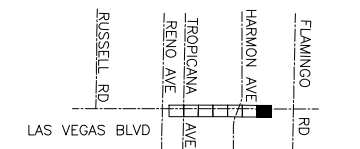
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6" FIRE HYDRANT RELOCATION
 STA: 197+03.21
 SEE DWG NO. W-7



16" WATER MAIN INTERCONNECTION
 STA: 199+00.20
 SEE DWG NO. W-7



KEY MAP
 NTS

EXISTING 30" SCC PIPE DATA 1:

STEEL CYLINDER OD:	30.2092"
CYLINDER THICKNESS:	0.1046"
LINING THICKNESS:	0.75"
COATING THICKNESS:	0.75"
ROD THICKNESS: (IF APPLICABLE)	0.3125"

CONSTRUCTION INDEX

- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 8 INSTALL 16" DIP, RESTRAIN AND BOND ALL JOINTS
- 66 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
- 75 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NOS. 40 AND 41 ON DWGS WD-17 & WD-18
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 92 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
- 104 30"x16" TAPPING SLEEVE AND VALVE PER DETAIL 2 ON DWG WD-10, DETAIL 4B ON DWG WD-11, AND UDACS PLATE NO. 34 ON DWG WD-15

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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
- 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

CATHODIC PROTECTION

- 7 INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22

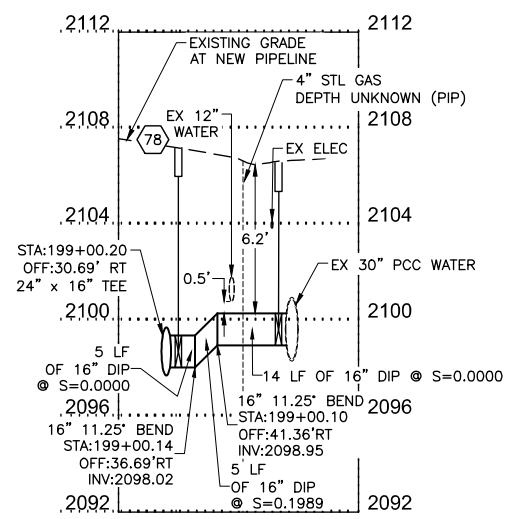
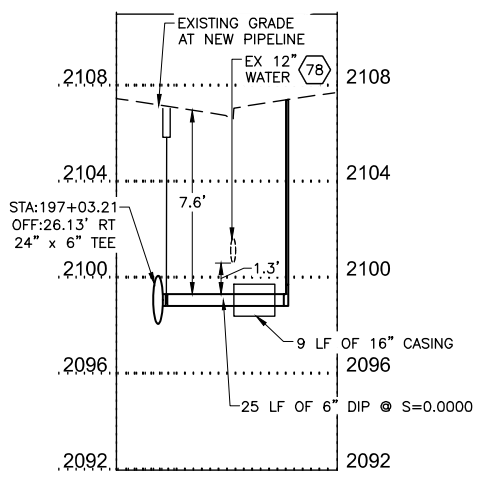
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LVVWD APPROVAL

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PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

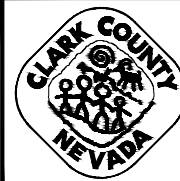
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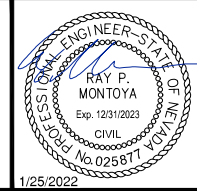
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LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

24" WATER MAIN - LATERAL PLAN AND PROFILE STA 197+03 & STA 199+00
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

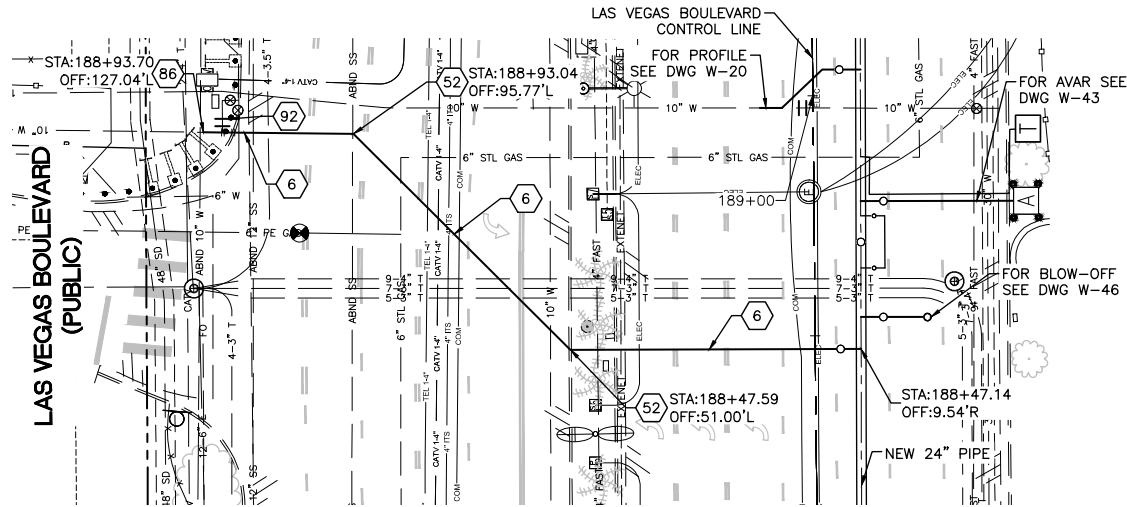
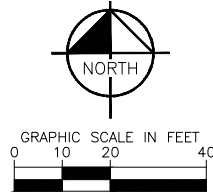


PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
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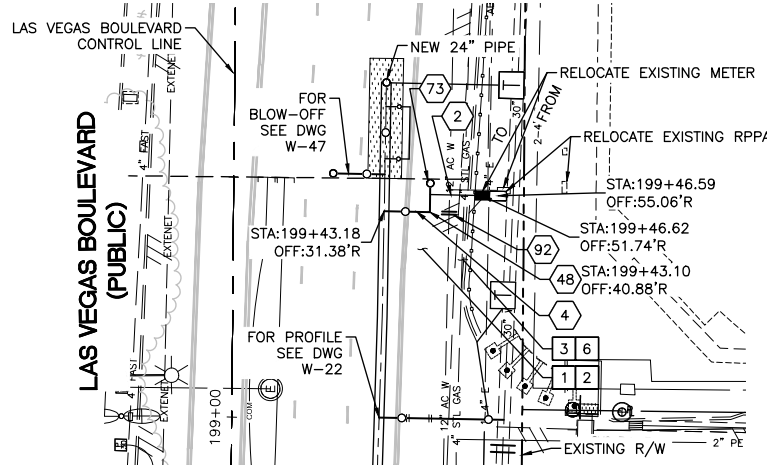
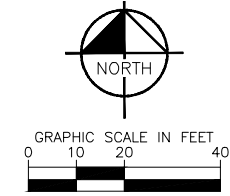
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 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	HORIZ: 1" = 20'	DRAWING NO. W-22
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FIELD BOOK	SHT. 27 OF 80	
L-2304		

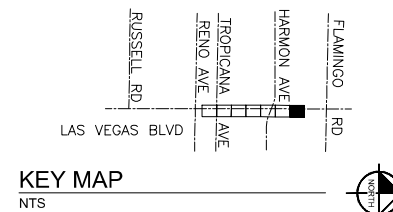
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10" WATER LATERAL RECONNECTION
 STA: 188+47.14
 SEE DWG NO. W-6



6" WATER LATERAL RECONNECTION
 STA: 199+43.18
 SEE DWG NO. W-7



CONSTRUCTION INDEX

- 2 INSTALL 1-1/2" SERVICE LINE PER UDACS PLATE NO. 4 ON DWG WD-14
- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 6 INSTALL 10" DIP, RESTRAIN AND BOND ALL JOINTS
- 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
- 52 INSTALL 10" X 45° BEND, RESTRAIN JOINTS
- 73 INSTALL 6" BLOW-OFF ASSEMBLY PER UDACS PLATE 37 ON DWG WD-16
- 86 CONNECT TO EXISTING 10" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
- 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

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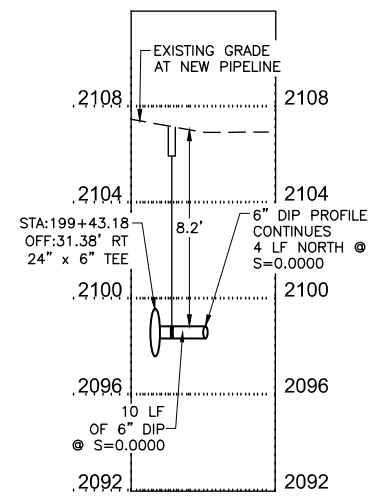
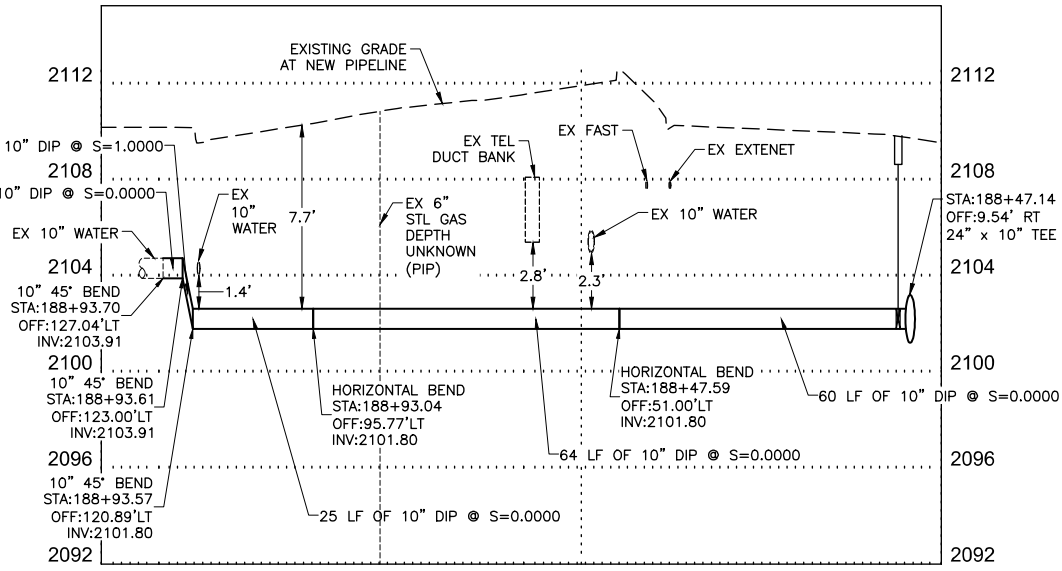
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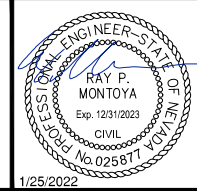
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LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

24" WATER MAIN - LATERAL PLAN AND PROFILE STA 188+47 & STA 199+43
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

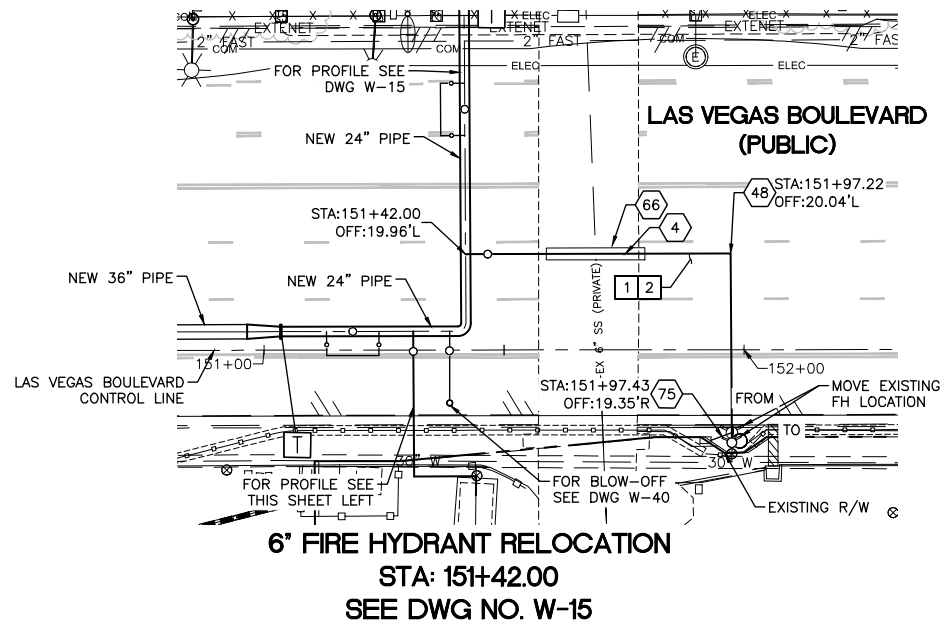
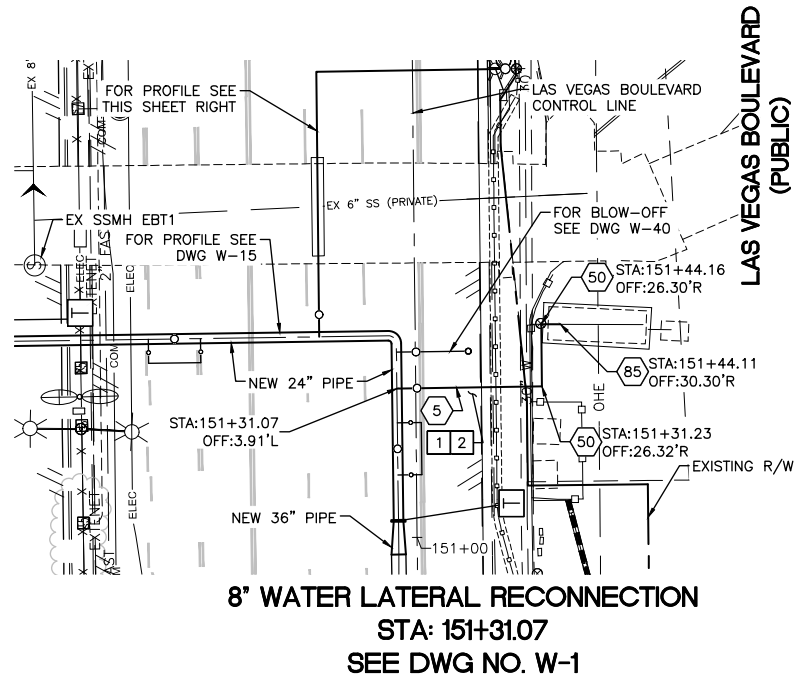
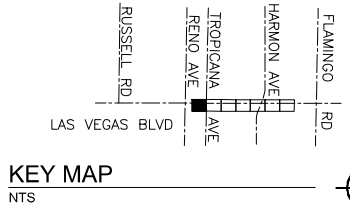
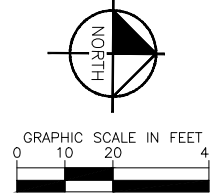
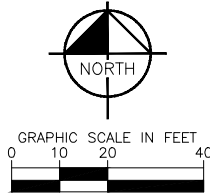


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 APPROVED BY: FIELD BOOK VERT: 1" = 4'

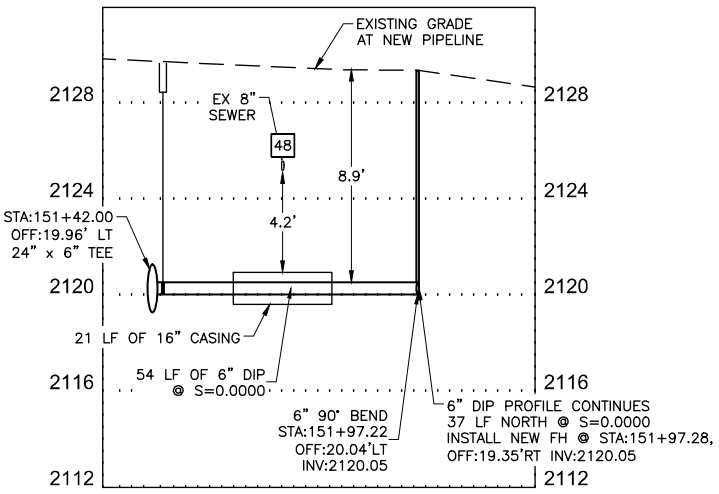
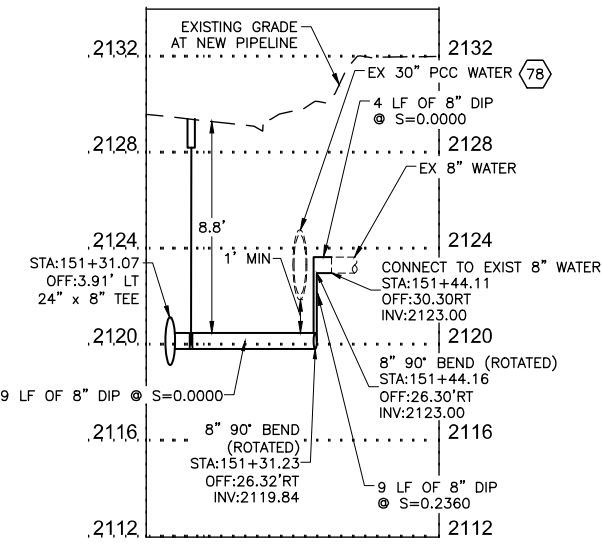
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L-2304	

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- CONSTRUCTION INDEX**
- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
 - 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
 - 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
 - 50 INSTALL 8" X 90° BEND, RESTRAIN JOINTS
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 - 75 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NOS. 40 AND 41 ON DWGS WD-17 & WD-18
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 - 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- CONSTRUCTION NOTES**
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 - 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



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BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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APPROVAL OF THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21.955
 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

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

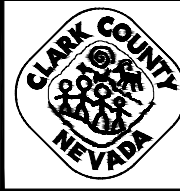
811
 Know what's below
 Call before you dig

SAFETY ALERT
 Call Before You Overhead
 1-702-227-2929

UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9193

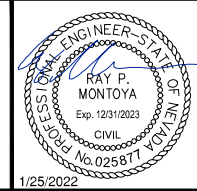
Call Before You Dig UnderGround
 1-702-432-5300
 PREVENT AND AVOID COSTLY DISRUPTIONS

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

24" WATER MAIN - LATERAL PLAN AND PROFILE STA 151+31 & STA 151+42
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____

Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

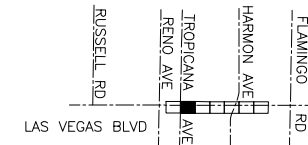
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HORIZ: 1" = 20'	W-24
VERT: 1" = 4'	SHT. 29 OF 80
FIELD BOOK	L-2304



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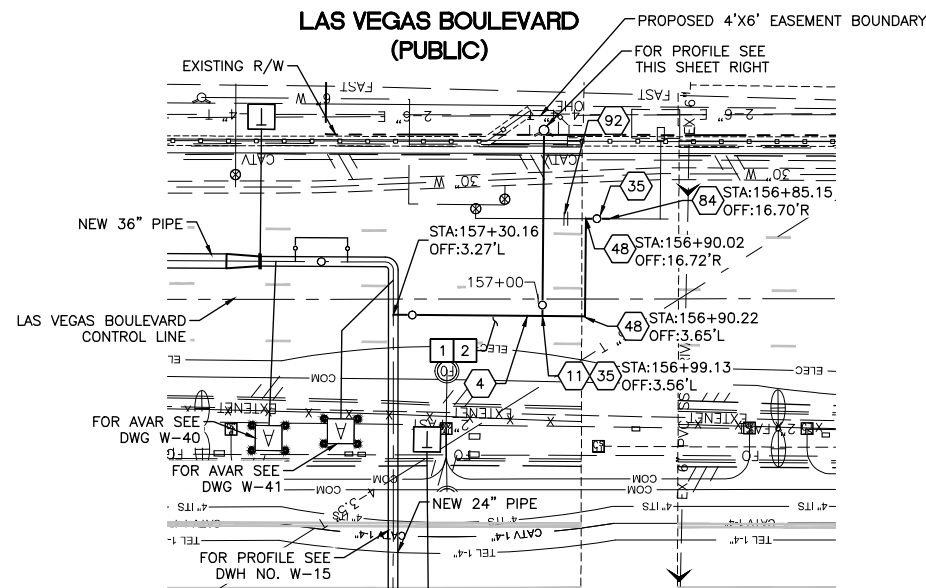
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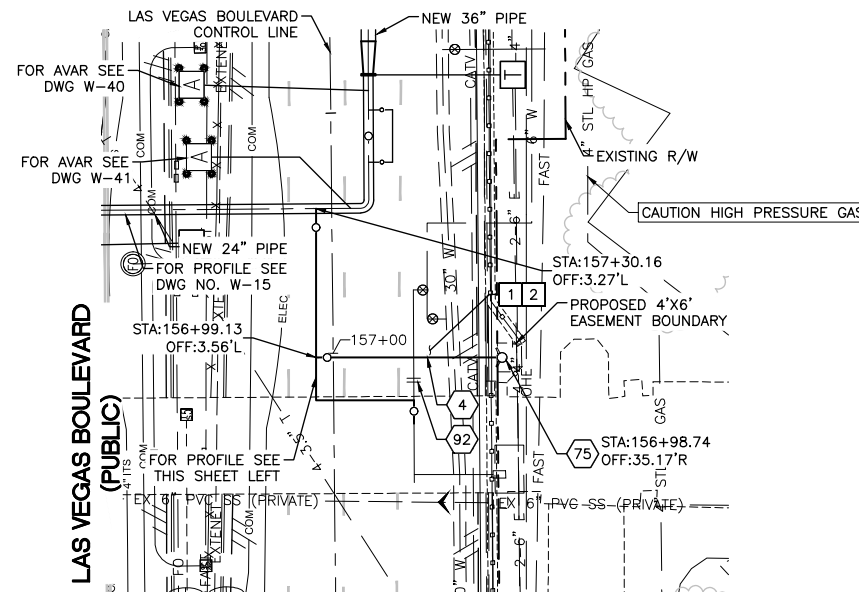
KEY MAP
NTS



LAS VEGAS BOULEVARD (PUBLIC)



6" WATER LATERAL RECONNECTION
STA: 157+30.16
SEE DWG NO. W-15



6" FIRE HYDRANT RELOCATION (CONT FROM LEFT)
STA: 156+99.13
SEE DWG NO. W-15

CONSTRUCTION INDEX

- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 11 INSTALL 6" X 6" TEE, RESTRAIN JOINTS
- 35 INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
- 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
- 75 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NOS. 40 AND 41 ON DWGS WD-17 & WD-18
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 84 CONNECT TO EXISTING 6" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 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

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

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21.955
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

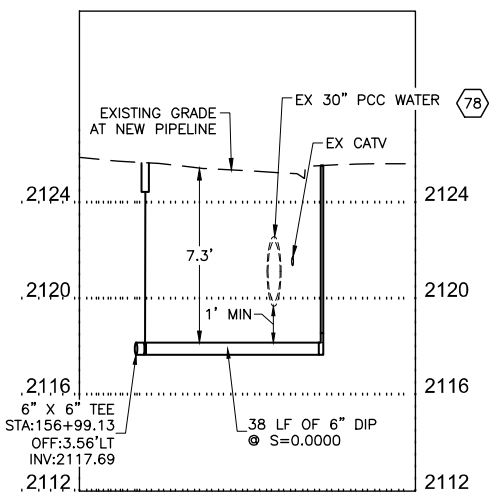
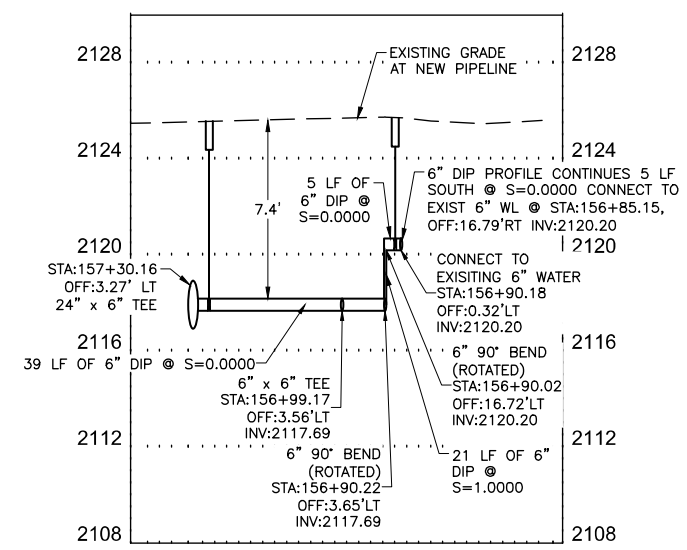
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

811
Know what's below
Call before you dig

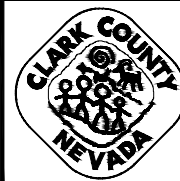
SAFETY ALERT
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UNION PACIFIC RAILROAD
Call Before You Dig
1-800-336-9193

Call Before You UnderGround
1-702-432-5300
RESIST AND AVOID USE OF TRANSDUCERS

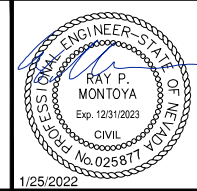


NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

24" WATER MAIN - LATERAL PLAN AND PROFILE STA 157+30 & STA 156+99
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
APPROVED BY: _____

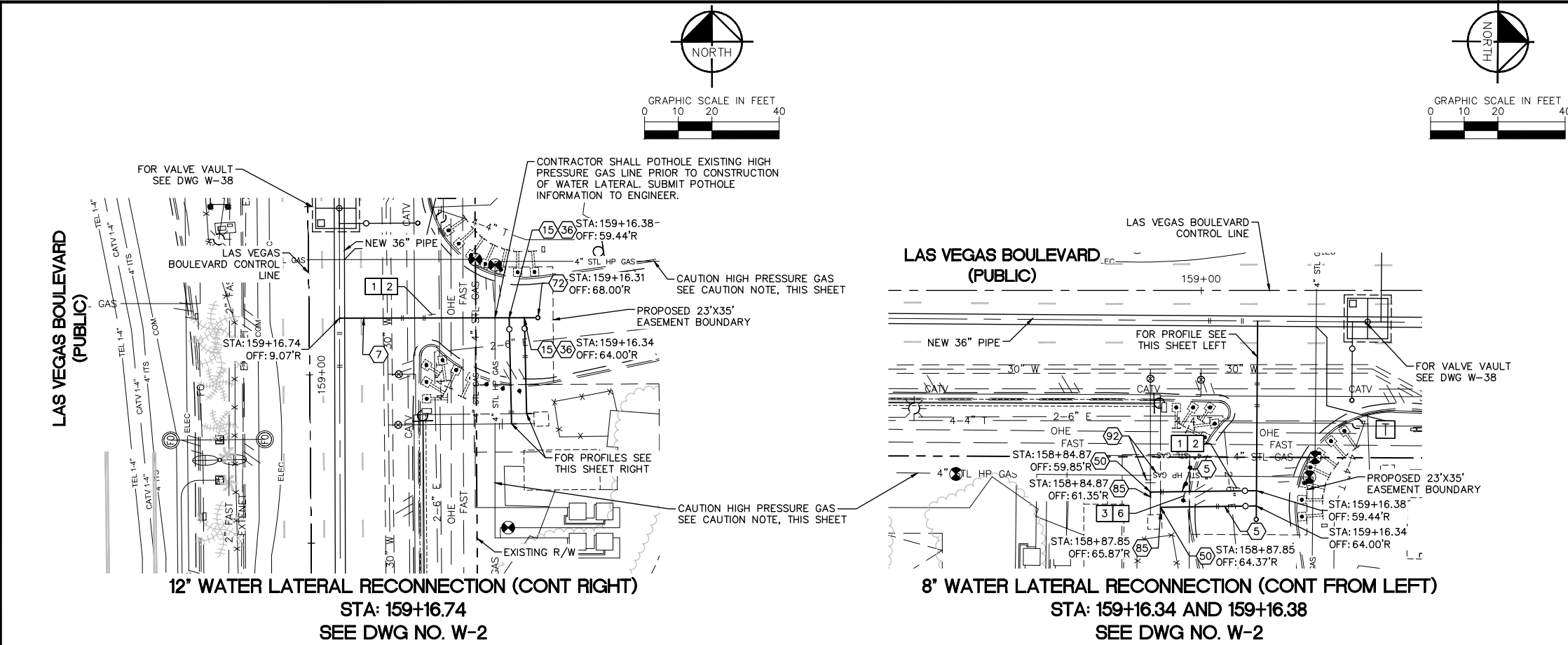


SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-25
VERT: 1" = 4'	SHT. 30 OF 80
FIELD BOOK	L-2304

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Print: 11/11/2022 10:11 AM
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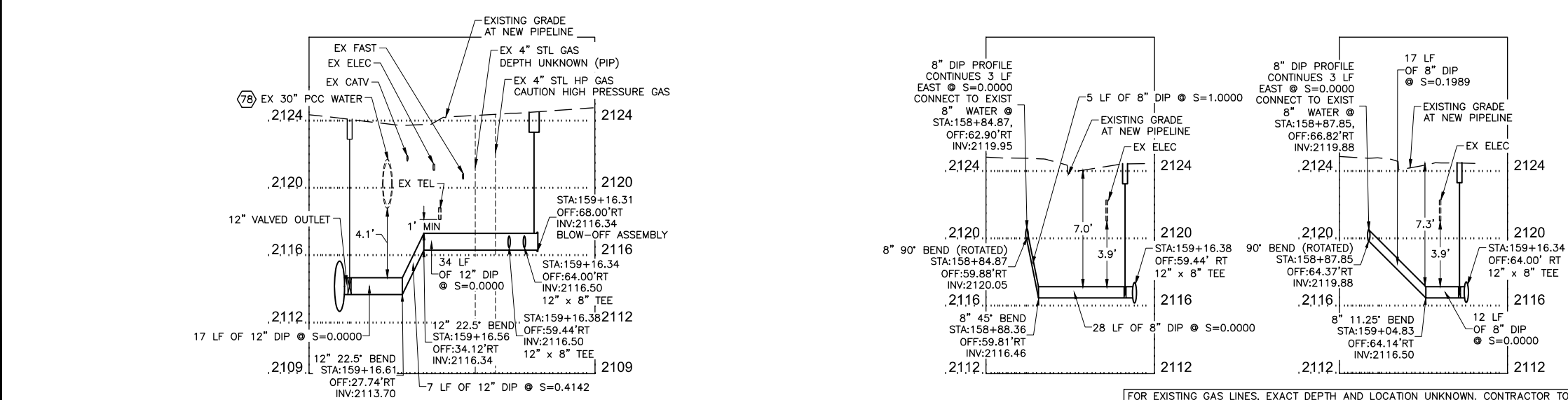
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

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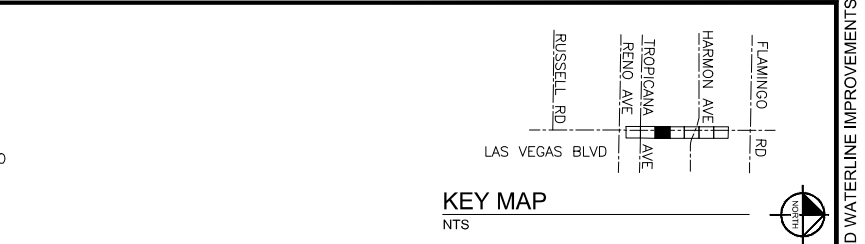
12" WATER LATERAL RECONNECTION (CONT RIGHT)
 STA: 159+16.74
 SEE DWG NO. W-2

8" WATER LATERAL RECONNECTION (CONT FROM LEFT)
 STA: 159+16.34 AND 159+16.38
 SEE DWG NO. W-2



NO.	REVISIONS	DATE

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
 36" WATER MAIN - LATERAL PLAN AND PROFILE STA STA 159+16
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



- CONSTRUCTION INDEX**
- 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
 - 7 INSTALL 12" DIP, RESTRAIN AND BOND ALL JOINTS
 - 15 INSTALL 12" X 8" TEE, RESTRAIN JOINTS
 - 36 INSTALL 8" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 50 INSTALL 8" X 90' BEND, RESTRAIN JOINTS
 - 72 INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLATE 36 ON DWG WD-16
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
 - 92 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
 - 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234

CAUTION: HIGH PRESSURE GAS!!!
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NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
 CCWRD PIPES NUMBER IS 21955
 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

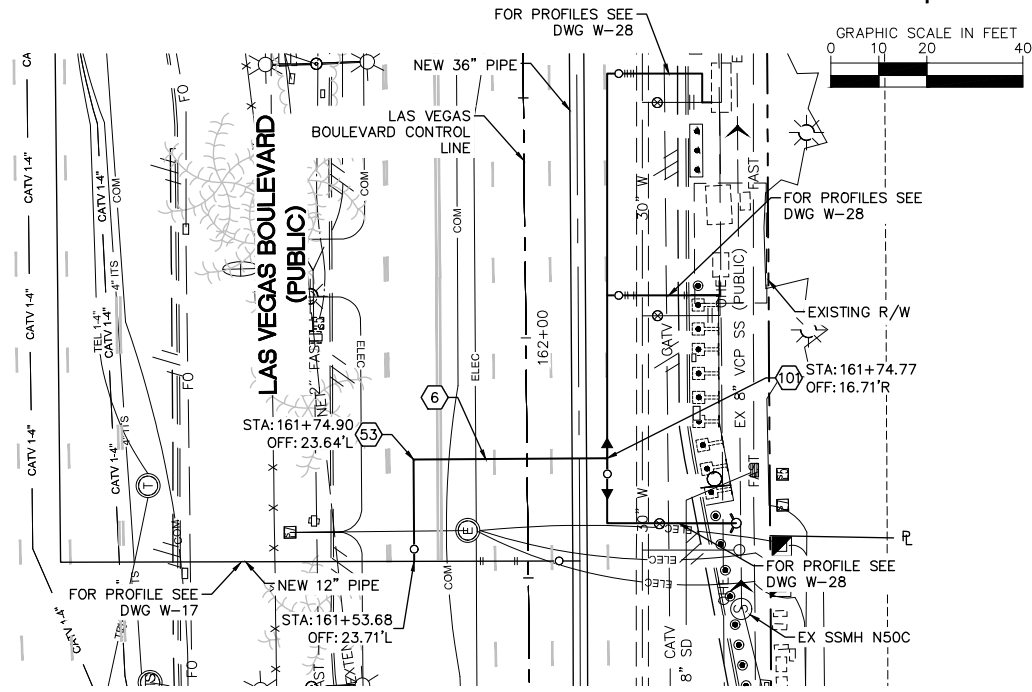
APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM HORIZ: 1" = 20'
 APPROVED BY: FIELD BOOK VERT: 1" = 4'
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3500

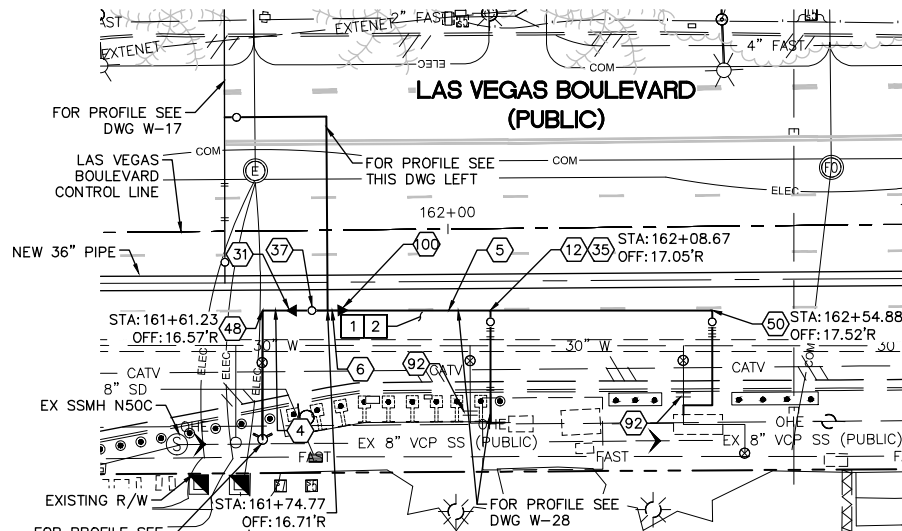
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 SHT. 31 OF 80
 L-2304

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

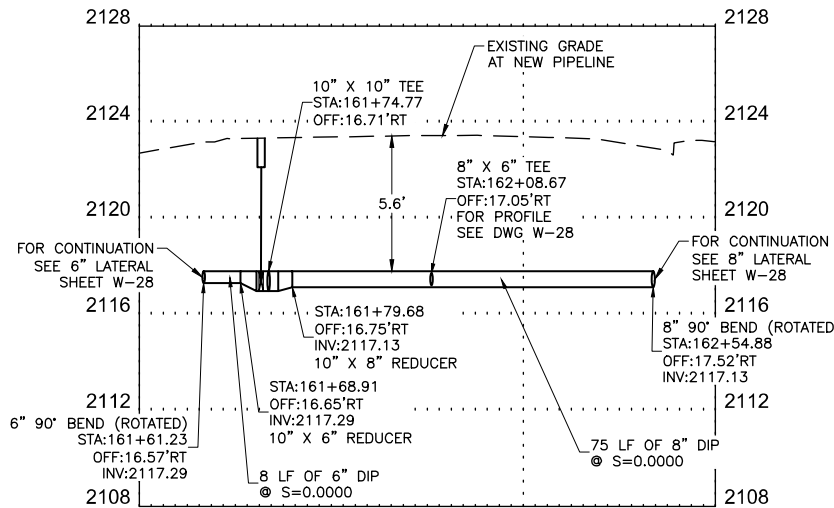
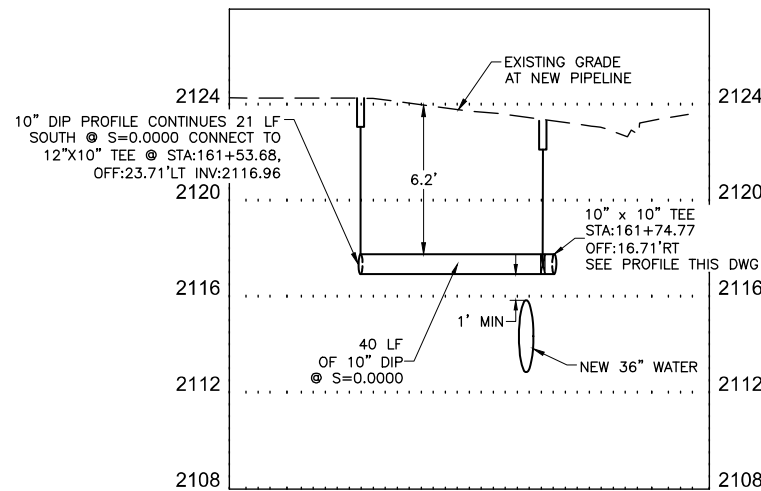
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10" WATER LATERAL RECONNECTION (CONT RIGHT)
 STA: 161+53.68
 SEE DWG NO. W-10



8" WATER LATERAL RECONNECTION (CONT FROM LEFT)
 STA: 161+74.77
 SEE DWG NO. W-10



- CONSTRUCTION INDEX**
- ④ INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
 - ⑤ INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
 - ⑥ INSTALL 10" DIP, RESTRAIN AND BOND ALL JOINTS
 - ⑫ INSTALL 8" X 6" TEE, RESTRAIN JOINTS
 - ③① INSTALL 10" X 6" REDUCER, RESTRAIN JOINTS
 - ③⑤ INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - ③⑦ INSTALL 10" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - ④⑧ INSTALL 6" X 90' BEND, RESTRAIN JOINTS
 - ⑤⑩ INSTALL 8" X 90' BEND, RESTRAIN JOINTS
 - ⑤③ INSTALL 10" X 90' BEND, RESTRAIN JOINTS
 - ⑨② CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
 - ⑩① INSTALL 10" X 8" REDUCER, RESTRAIN JOINTS
 - ⑩② INSTALL 10" X 10" TEE, RESTRAIN JOINTS
- 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

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

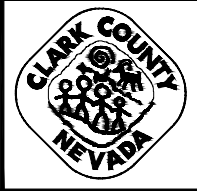
811
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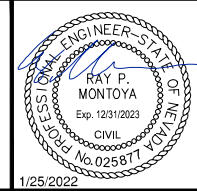
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 PREVENT AND AVOID COSTLY DISRUPTIONS

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
 12" WATER MAIN - LATERAL PLAN AND PROFILE STA 161+53 & STA 161+74
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



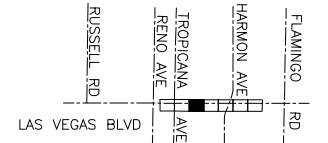
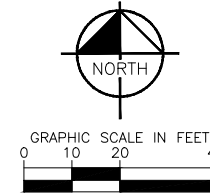
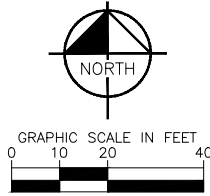
PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____

Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
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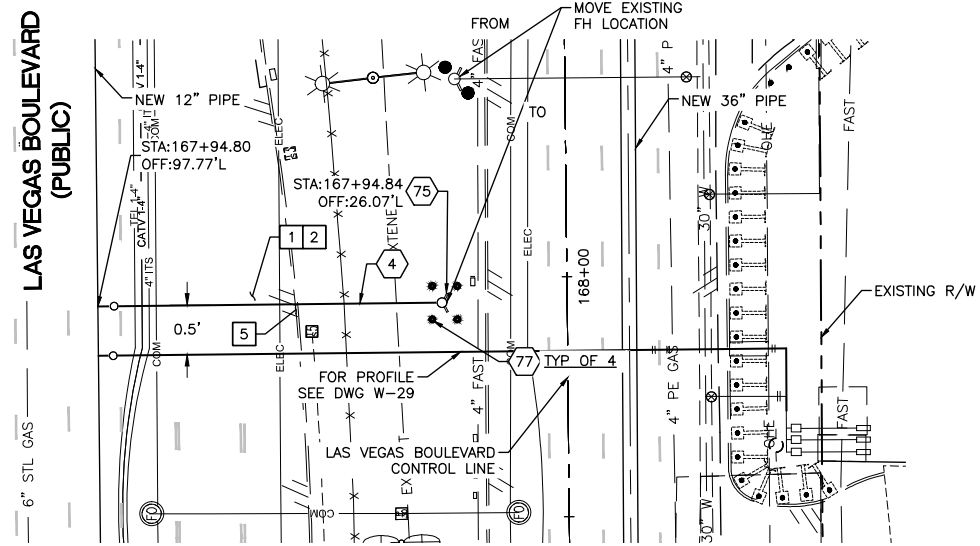
SCALE	HORIZ: 1" = 20'	DRAWING NO. W-27 SHT. 32 OF 80
	VERT: 1" = 4'	
	FIELD BOOK	
L-2304		

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

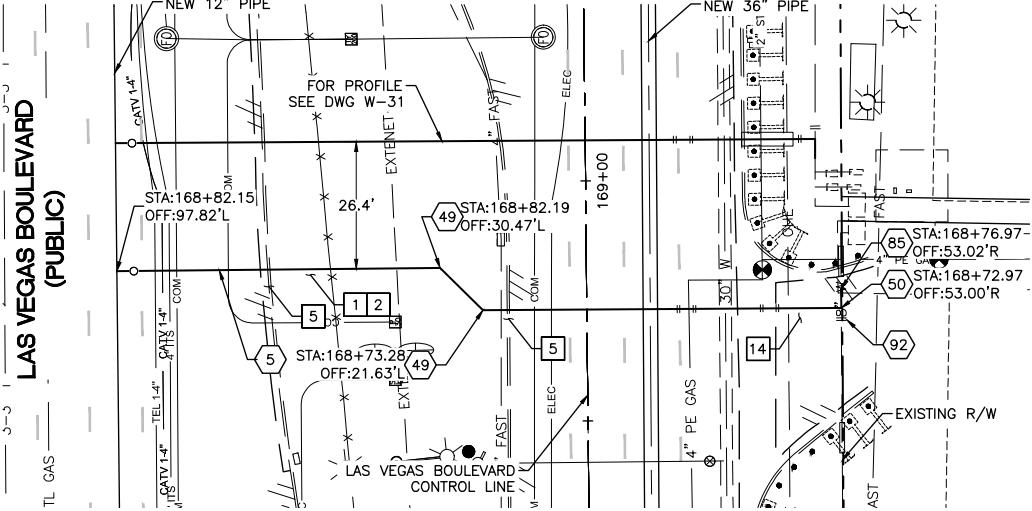
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KEY MAP
NTS



6" FIRE HYDRANT RELOCATION
 STA: 167+94.80
 SEE DWG NO. W-10



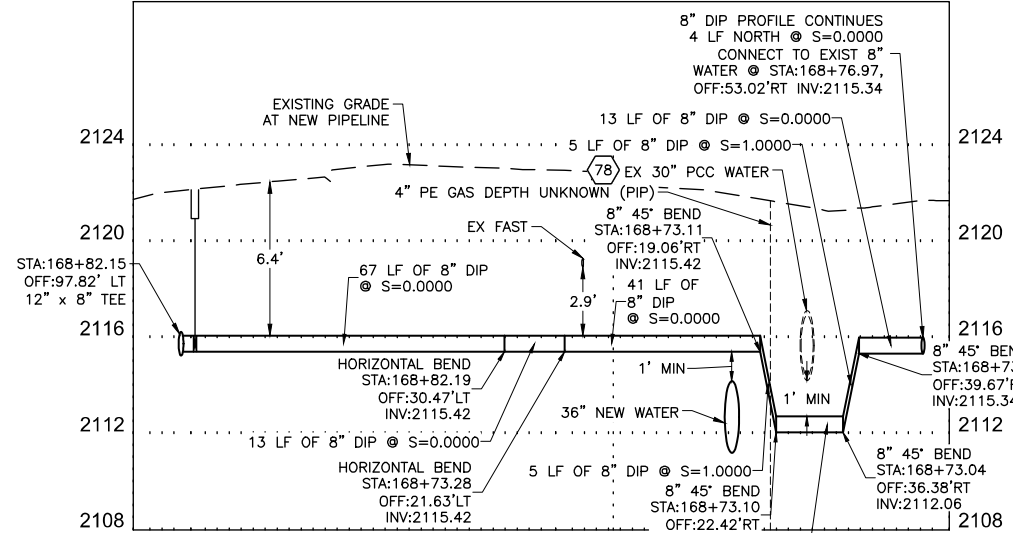
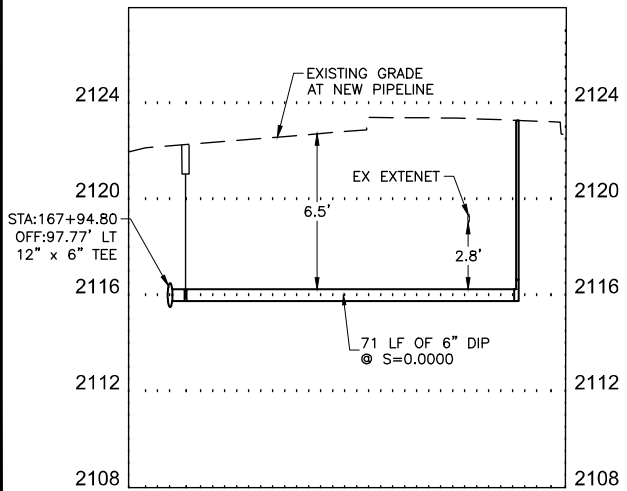
8" WATER LATERAL RECONNECTION
 STA: 168+82.15
 SEE DWG NO. W-10

CONSTRUCTION INDEX

- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
- 49 INSTALL 8" X 45° BEND, RESTRAIN JOINTS
- 50 INSTALL 8" X 90° BEND, RESTRAIN JOINTS
- 75 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NOS. 40 AND 41 ON DWGS WD-17 & WD-18
- 77 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 ON DWG WD-18
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 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
- 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219
- 14 REPLACE COMMERCIAL DRIVEWAY PER CCAUSD DWG. NO. 224



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
 BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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LVVWD APPROVAL

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 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

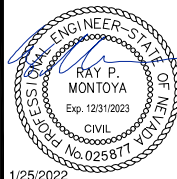


NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" WATER MAIN - LATERAL PLAN AND PROFILE STA 167+94 & STA 168+82
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



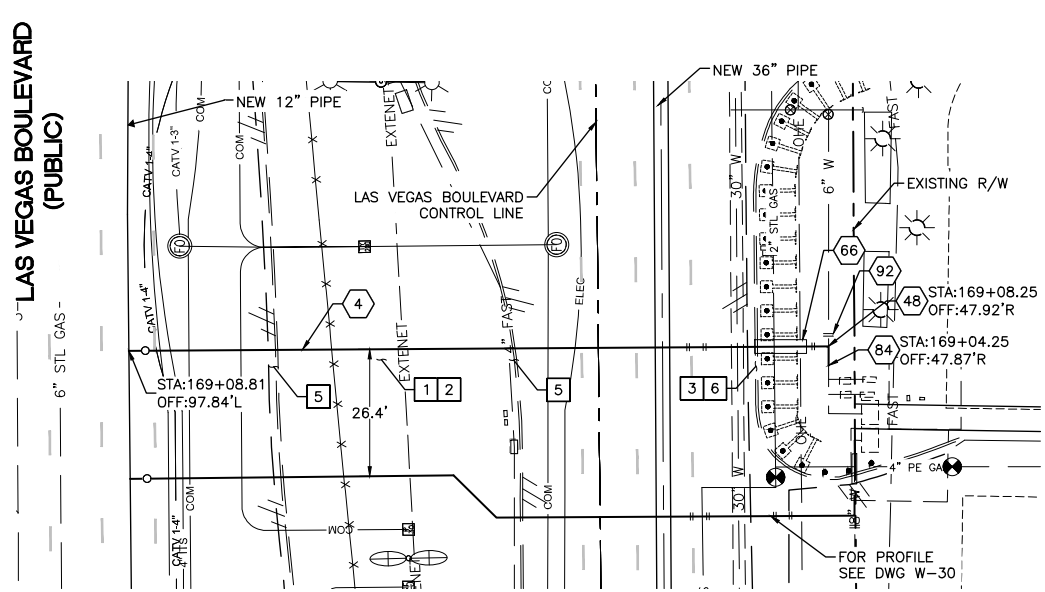
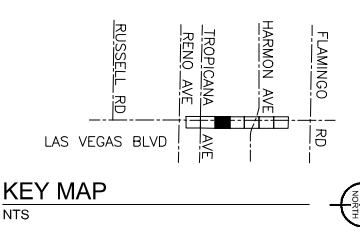
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____



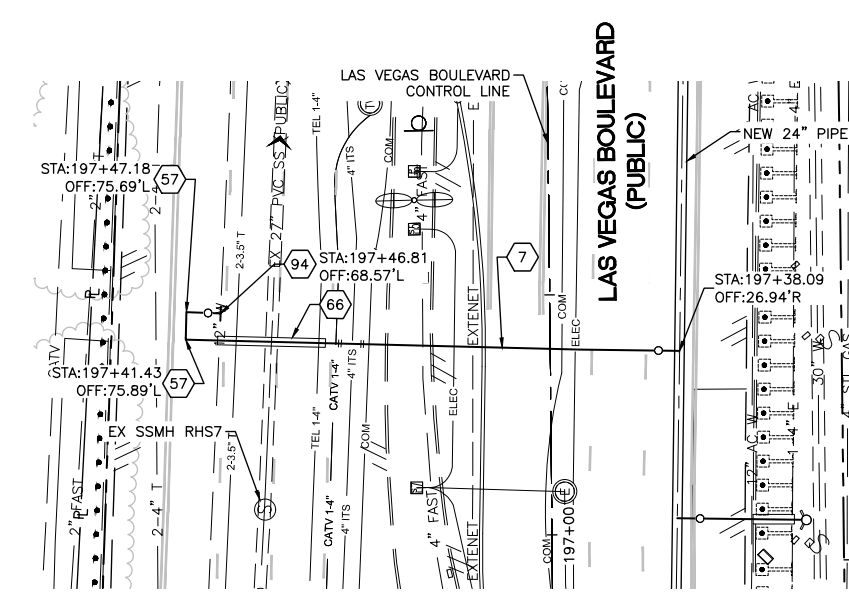
SCALE
 HORIZ: 1" = 20'
 VERT: 1" = 4'
 FIELD BOOK

DRAWING NO.
W-30
 SHT. 35 OF 80
 L-2304

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



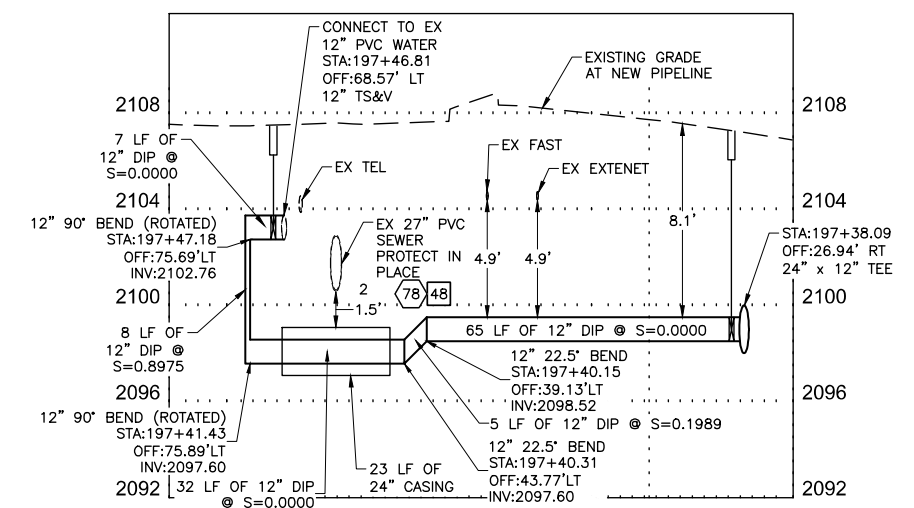
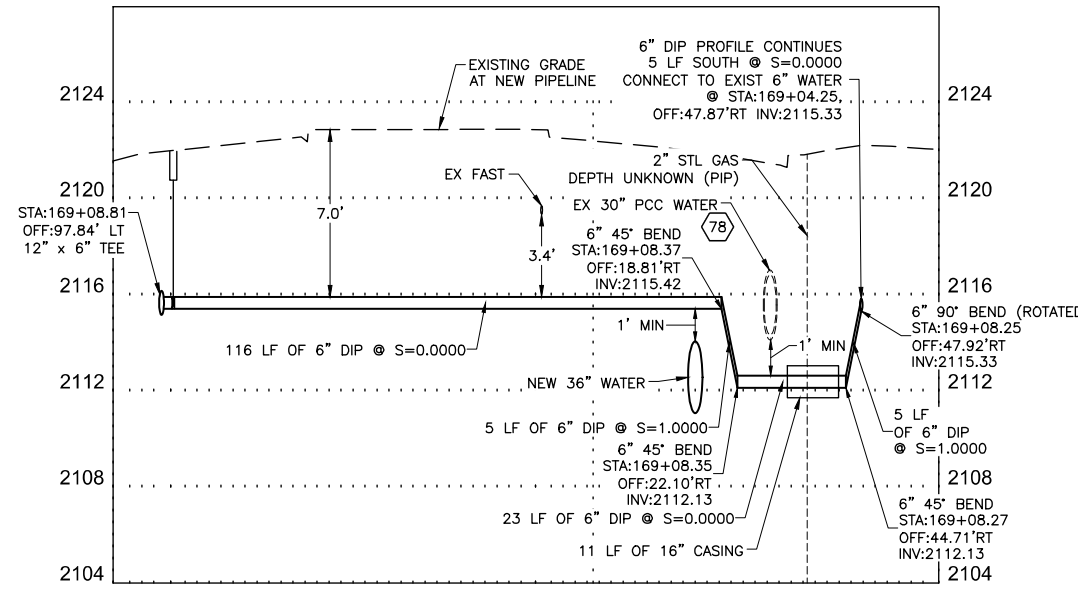
6" WATER LATERAL RECONNECTION
STA: 169+08.81
SEE DWG NO. W-10



12" WATER LATERAL CONNECTION
STA: 197+38.09
SEE DWG NO. W-10

- CONSTRUCTION INDEX**
- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
 - 7 INSTALL 12" DIP, RESTRAIN AND BOND ALL JOINTS
 - 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
 - 57 INSTALL 12" X 90° BEND, RESTRAIN JOINTS
 - 66 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 84 CONNECT TO EXISTING 6" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
 - 92 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12
 - 94 12" X 12" TAPPING SLEEVE & VALVE PER UDACS PLATE NOS. 34 & 35 ON DWGS WD-15 & WD-16

- 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
 - 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219
 - 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
 - 48 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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
DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
CLARK COUNTY WATER RECLAMATION DISTRICT DATE
CCWRD PIPES NUMBER IS 21.955
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
DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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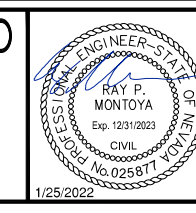
NO.	REVISIONS	DATE

CLARK COUNTY NEVADA

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" & 24" WATER MAIN - LATERAL PLAN AND PROFILE STA 169+08 & STA 197+38
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

APPROVED



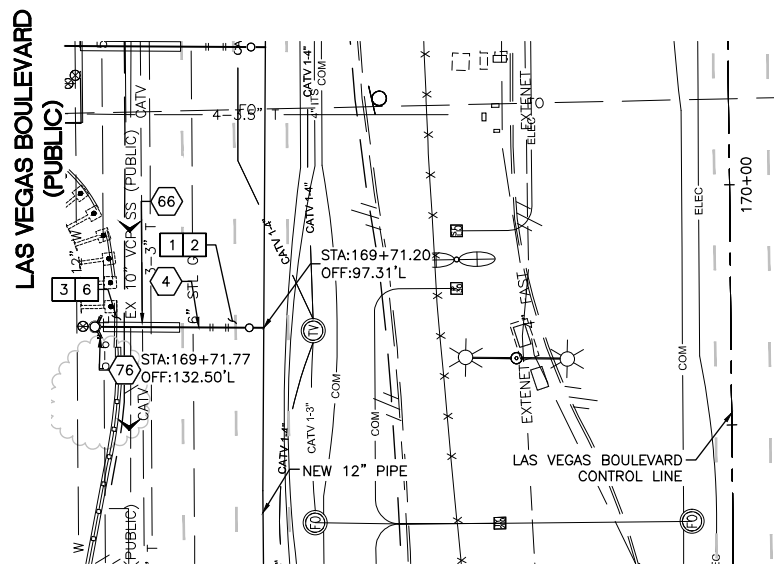
PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM HORIZ: 1" = 20'
APPROVED BY: FIELD BOOK VERT: 1" = 4'

Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

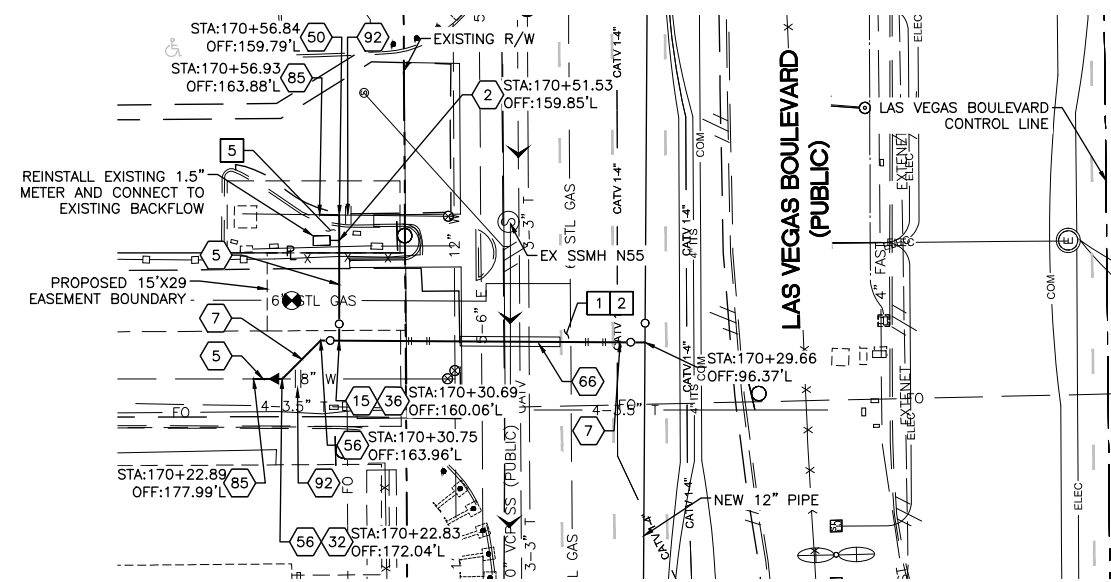
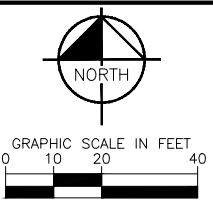
DRAWING NO. **W-31**
SHT. 36 OF 80
L-2304

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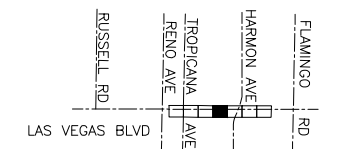
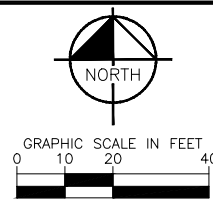
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6" FIRE HYDRANT RECONNECTION
 STA: 169+71.20
 SEE DWG NO. W-11

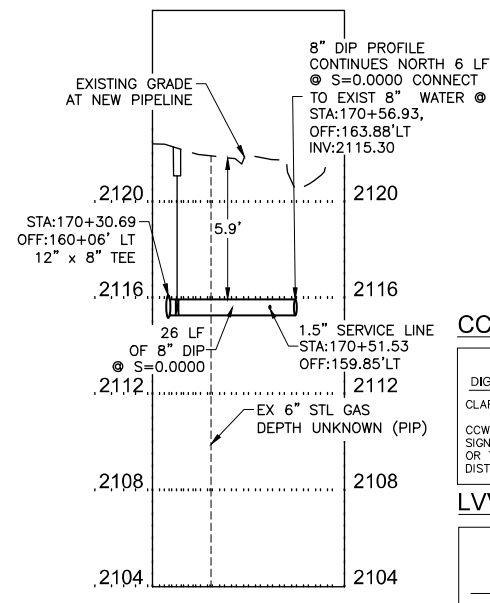
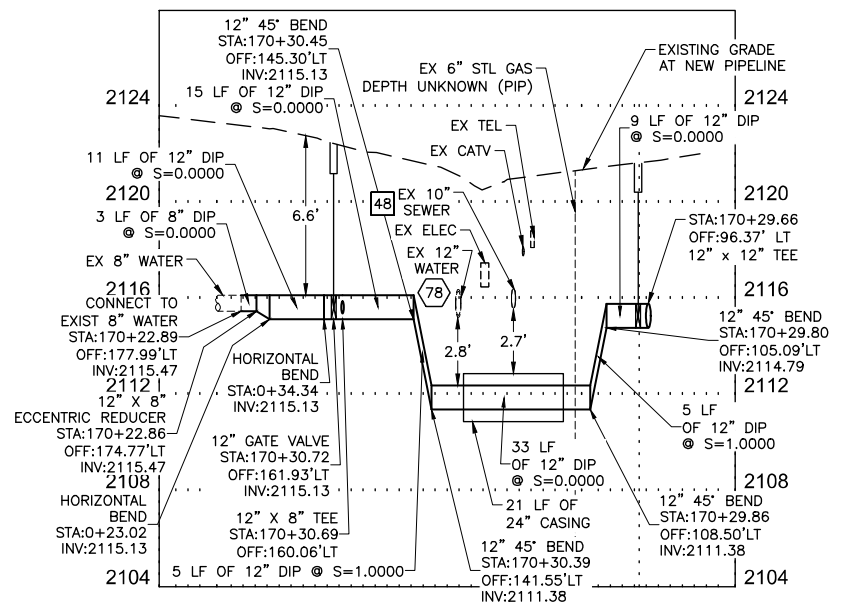
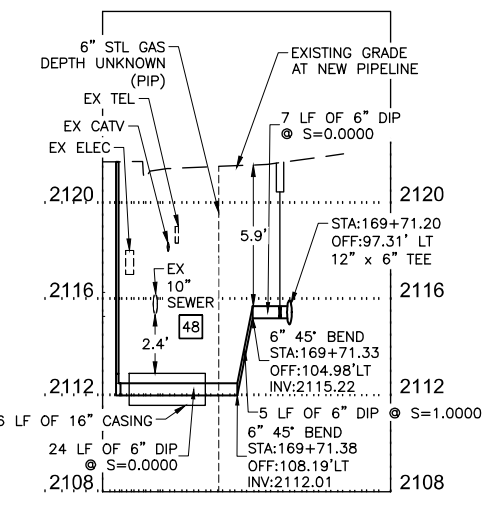


12" WATER LATERAL RECONNECTION
 STA: 170+29.66
 SEE DWG NO. W-11



KEY MAP
 NTS

- CONSTRUCTION INDEX**
- 2 INSTALL 1-1/2" SERVICE LINE PER UDACS PLATE NO. 4 ON DWG WD-14
 - 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
 - 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
 - 7 INSTALL 12" DIP, RESTRAIN AND BOND ALL JOINTS
 - 15 INSTALL 12" X 8" TEE, RESTRAIN JOINTS
 - 32 INSTALL 12" X 8" REDUCER, RESTRAIN JOINTS
 - 36 INSTALL 8" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 50 INSTALL 8" X 90° BEND, RESTRAIN JOINTS
 - 56 INSTALL 12" X 45° BEND, RESTRAIN JOINTS
 - 66 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
 - 76 CONNECT TO EXISTING FIRE HYDRANT WITH ENGINEER APPROVED SLEEVE COUPLING
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
 - 92 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
 - 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219
 - 6 REPLACE SIDEWALK PER CCAUSD DWG. NO. 234
 - 48 EXISTING SEWER MUST BE PROTECTED IN PLACE PER DCSWCS



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21.955
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

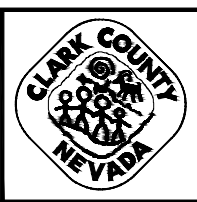
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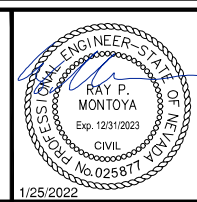
NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" WATER MAIN - LATERAL PLAN AND PROFILE STA 169+71 & STA 170+29

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE: HORIZ: 1" = 20' VERT: 1" = 4' FIELD BOOK

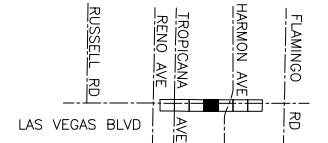
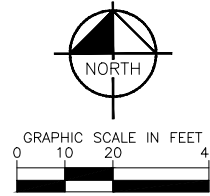
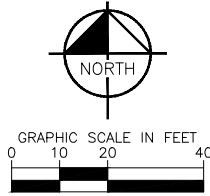
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: _____

Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3500

DRAWING NO.	
W-32	
SHT. 37 OF 80	
L-2304	

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 Plot: I:\Projects\2020\Las Vegas Blvd Waterline Replacement - Tropicana Ave to Flamingo Rd - Phase E/F - C22.LT.dwg
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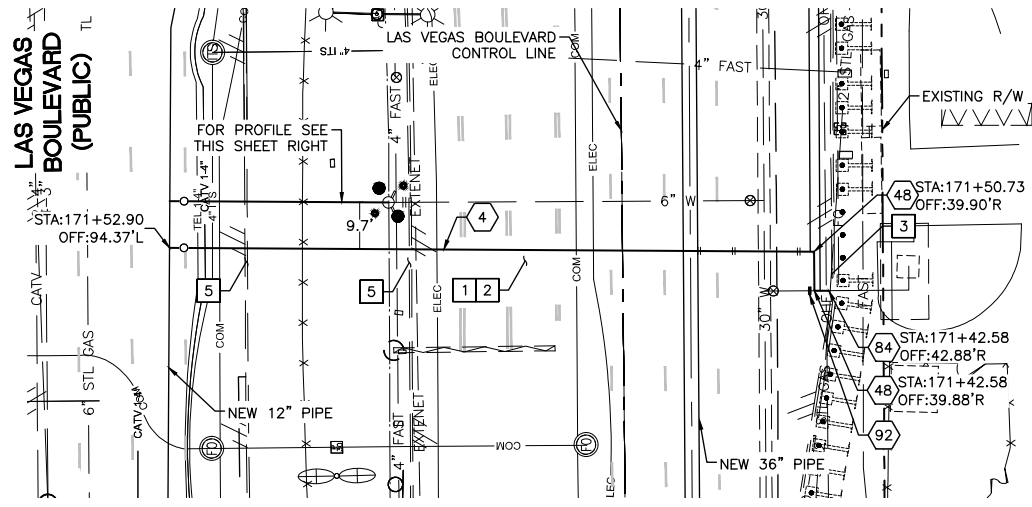
KEY MAP
NTS

CONSTRUCTION INDEX

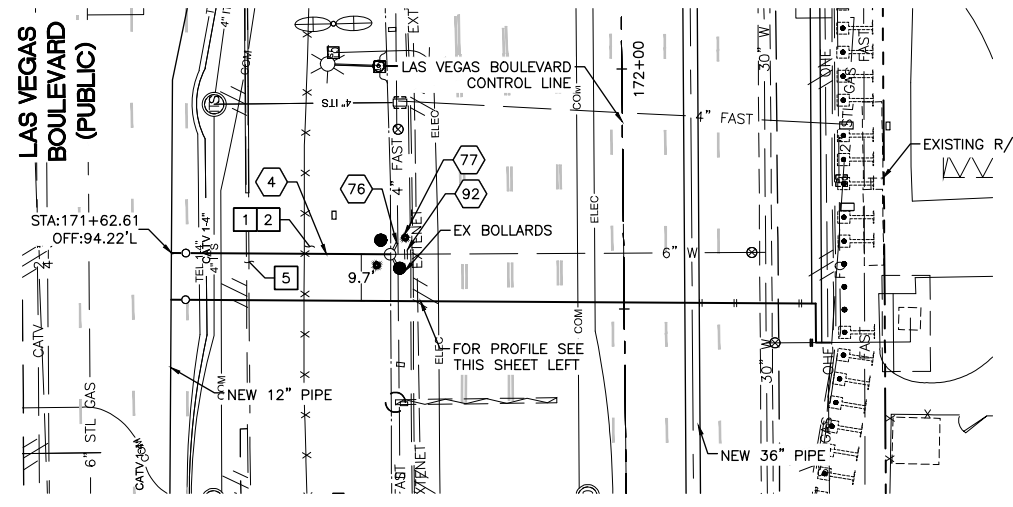
- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
- 76 CONNECT TO EXISTING FIRE HYDRANT WITH ENGINEER APPROVED SLEEVE COUPLING
- 77 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 ON DWG WD-18
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 84 CONNECT TO EXISTING 6" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 CUT AND CAP EXISTING MAIN PIPE PER DETAIL 1 ON DWG WD-12

CONSTRUCTION NOTES

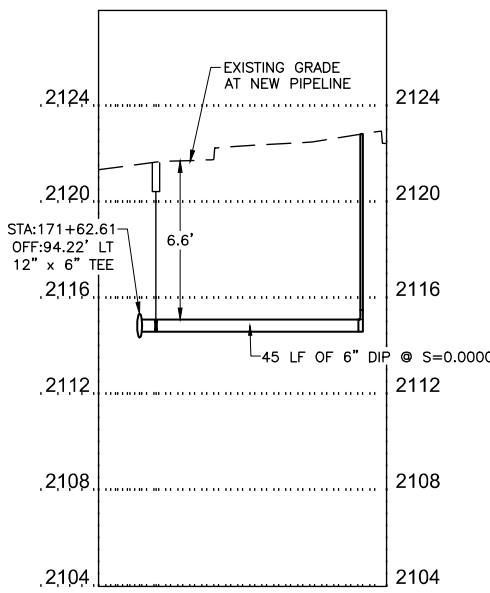
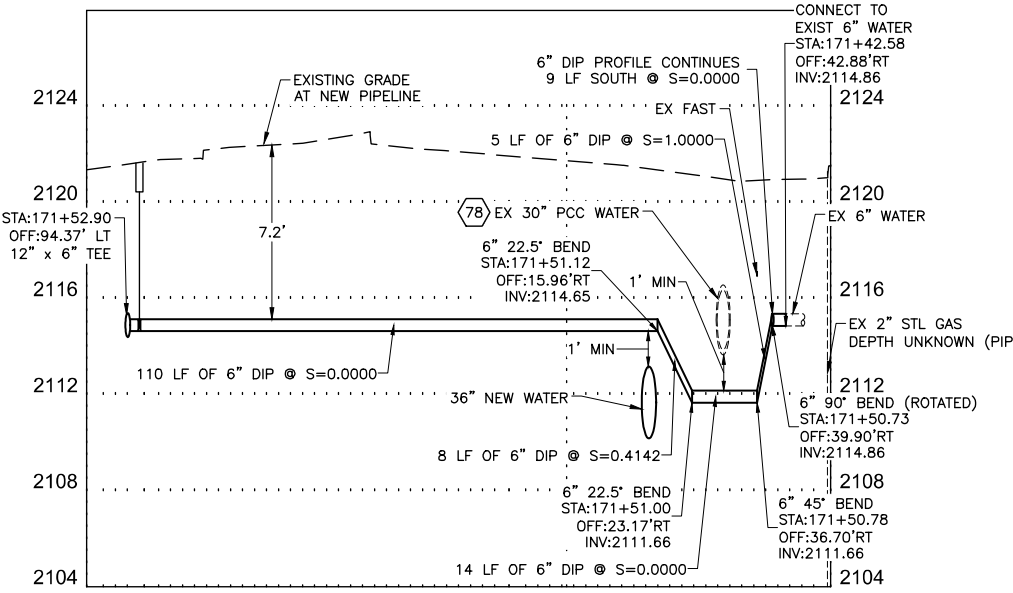
- 1 ALL TRENCH PER DETAILS ON DWG WD-1
- 2 SAWCUT AND/OR MATCH EXISTING GRADE. CONTRACTOR TO COORDINATE W/ CLARK COUNTY INSPECTOR FOR SAWCUT LOCATIONS
- 3 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
- 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219



6" WATER LATERAL RECONNECTION
STA: 171+52.90
SEE DWG NO. W-11



6" FIRE HYDRANT RECONNECTION
STA: 171+62.61
SEE DWG NO. W-11



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

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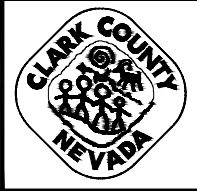
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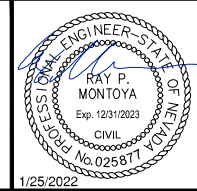
FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" WATER MAIN - LATERAL PLAN AND PROFILE STA 171+52 & STA 171+62
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

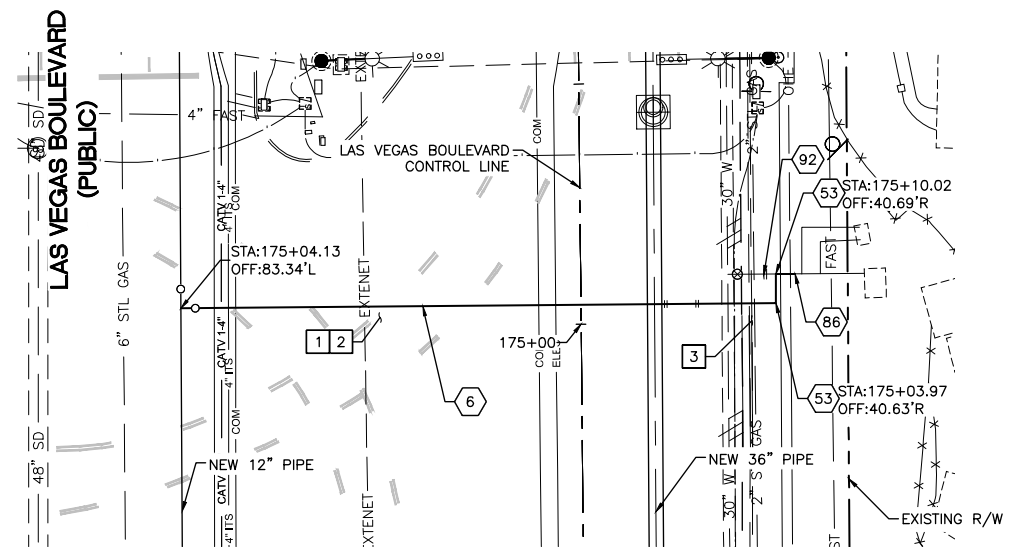
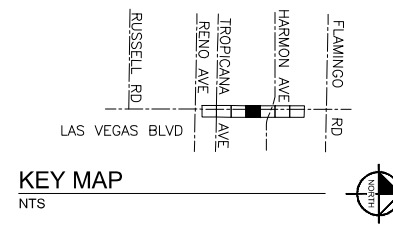
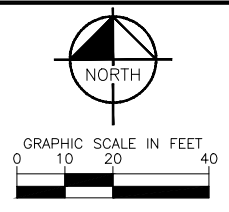
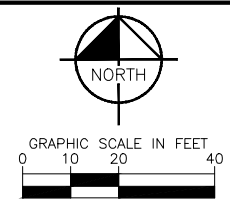


PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____

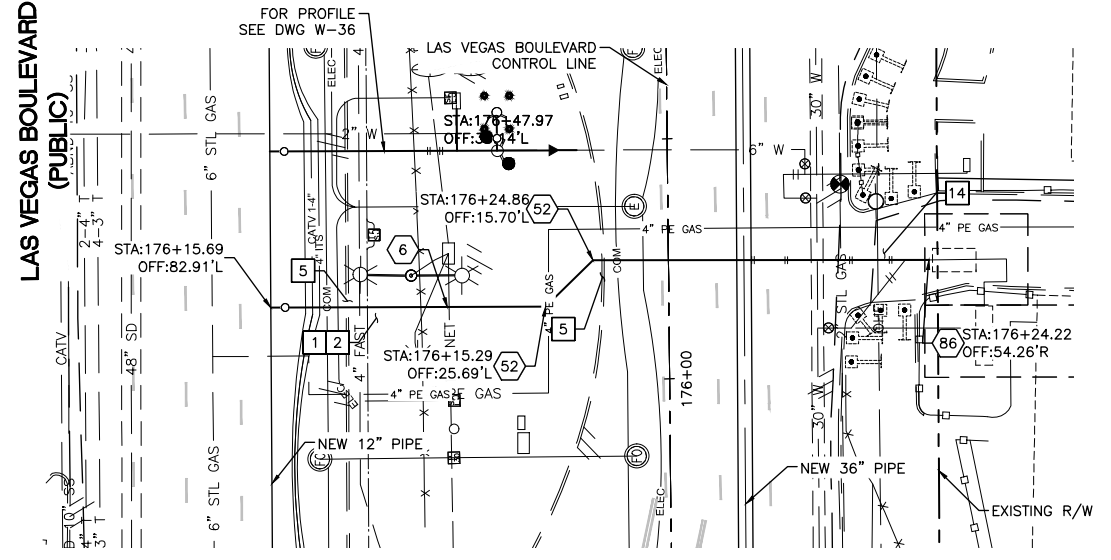
Kimley Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-33
VERT: 1" = 4'	SHT. 38 OF 80
FIELD BOOK	L-2304

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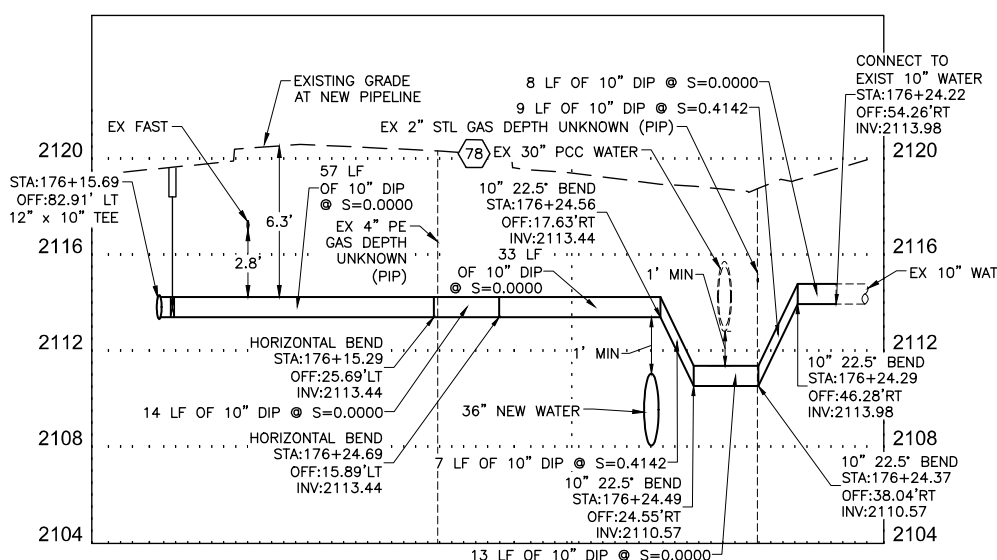
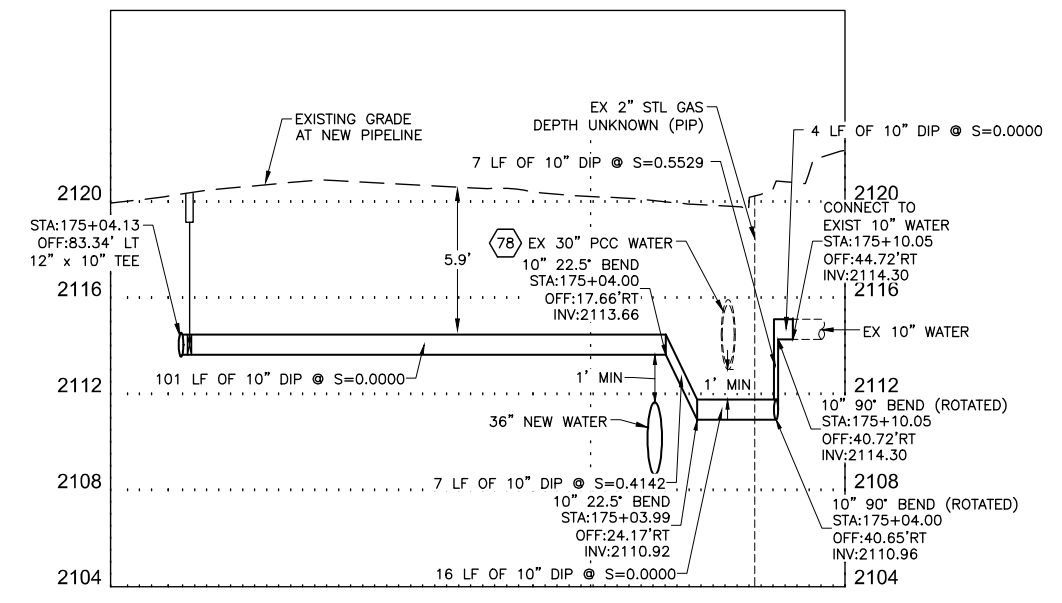
10" WATER LATERAL RECONNECTION
 STA: 175+04.13
 SEE DWG NO. W-11



10" WATER MAIN RECONNECTION
 STA: 176+15.69
 SEE DWG NO. W-5

- CONSTRUCTION INDEX**
- 6 INSTALL 10" DIP, RESTRAIN AND BOND ALL JOINTS
 - 52 INSTALL 10" X 45" BEND, RESTRAIN JOINTS
 - 53 INSTALL 10" X 90" BEND, RESTRAIN JOINTS
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 86 CONNECT TO EXISTING 10" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
 - 92 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
 - 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219
 - 14 REPLACE COMMERCIAL DRIVEWAY PER CCAUSD DWG. NO. 224



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3'-FT HORIZONTAL AND 12"-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

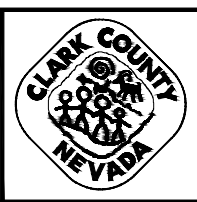
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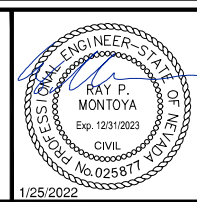
NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" WATER MAIN - LATERAL PLAN AND PROFILE STA 175+04 & STA 176+15

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



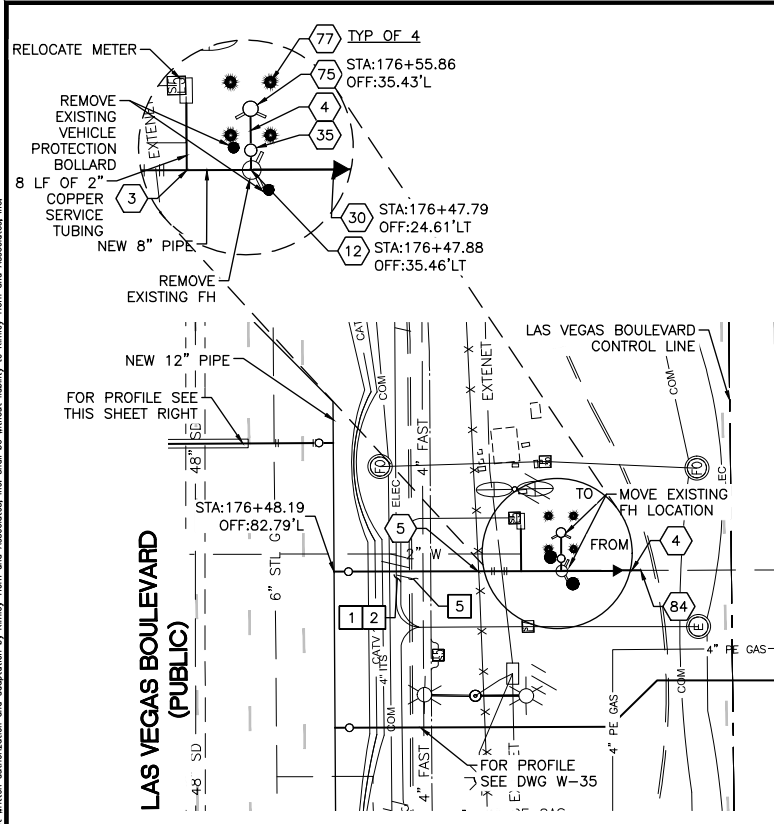
PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE: HORIZ: 1" = 20' VERT: 1" = 4' FIELD BOOK

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

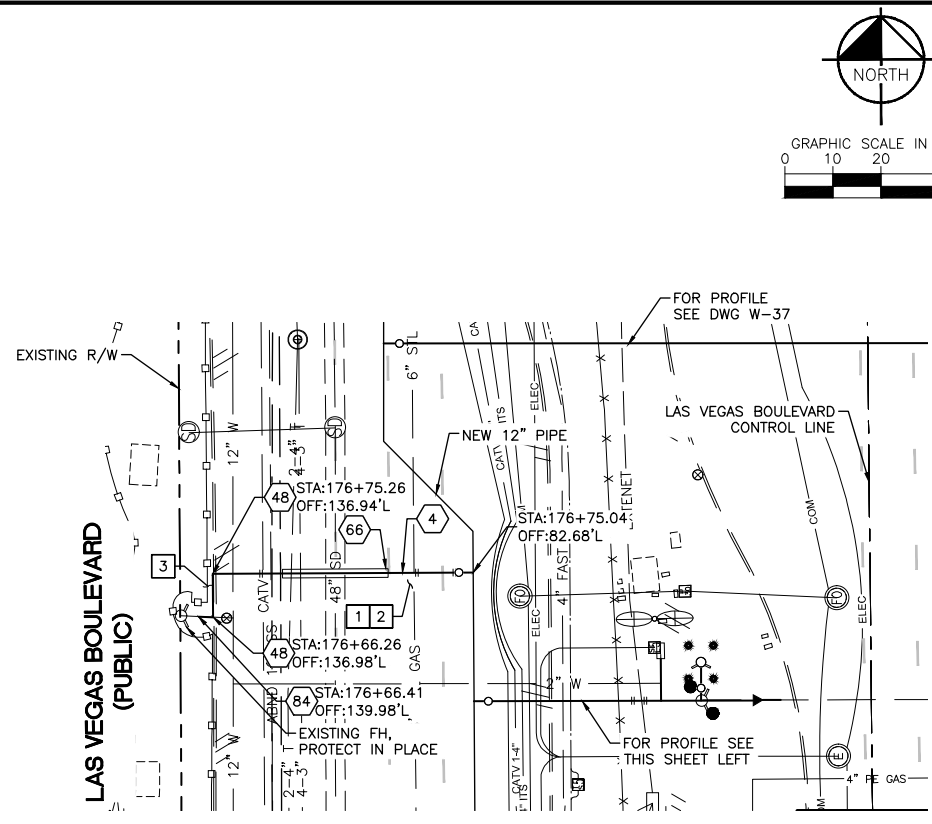
APPROVED BY: _____

Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. (702) 882-3600

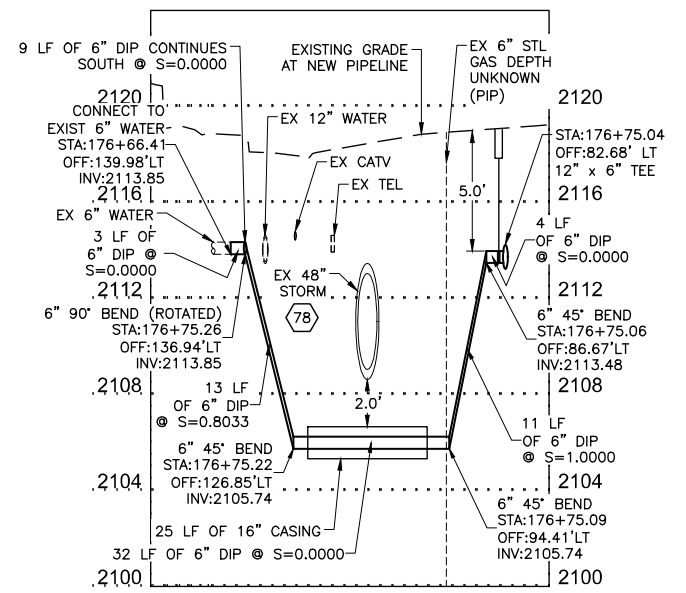
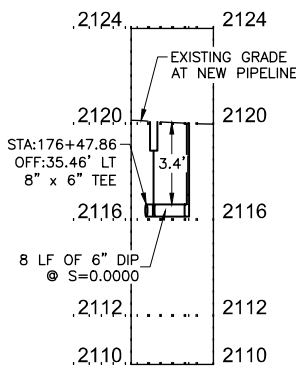
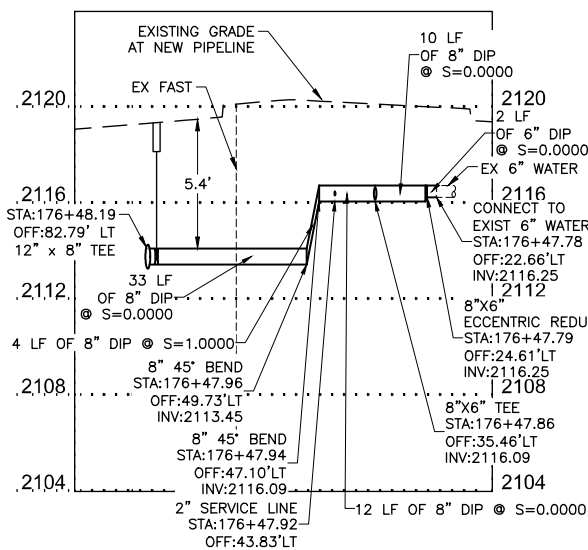
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SHT.	40 OF 80
L-2304	



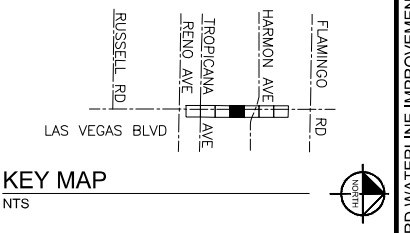
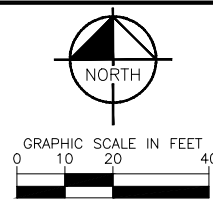
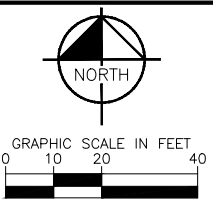
8" WATER LATERAL RECONNECTION
 STA: 176+48.19
 SEE DWG NO. W-11



6" FIRE HYDRANT RECONNECTION
 STA: 176+75.04
 SEE DWG NO. W-11



FOR EXISTING GAS LINES, EXACT DEPTH AND LOCATION UNKNOWN. CONTRACTOR TO LOCATE VERTICALLY AND HORIZONTALLY PRIOR TO ANY EXCAVATION OPERATIONS.



- CONSTRUCTION INDEX**
- 3 INSTALL 2" SERVICE LINE PER UDACS PLATE NO. 4 ON DWG WD-14
 - 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
 - 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
 - 12 INSTALL 8" X 6" TEE, RESTRAIN JOINTS
 - 30 INSTALL 8" X 6" REDUCER, RESTRAIN JOINTS
 - 35 INSTALL 6" GATE VALVE PER DETAIL 2 ON DWG WD-11 & UDACS PLT NO. 39 ON DWG WD-17
 - 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
 - 66 INSTALL PIPE CASING PER UDACS PLATE NOS. 22 & 23 ON DWG WD-14
 - 75 INSTALL NEW FIRE HYDRANT PER UDACS PLATE NOS. 40 AND 41 ON DWGS WD-17 & WD-18
 - 77 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 ON DWG WD-18
 - 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
 - 84 CONNECT TO EXISTING 6" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING

- 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 REPLACE "L" TYPE CURB AND GUTTER PER CCAUSD DWG. NO. 216
 - 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL

BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22

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

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS 21.955
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

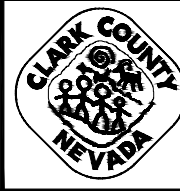
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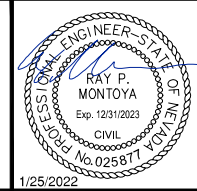
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LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

12" WATER MAIN - LATERAL PLAN AND PROFILE STA 176+48 & STA 176+75

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



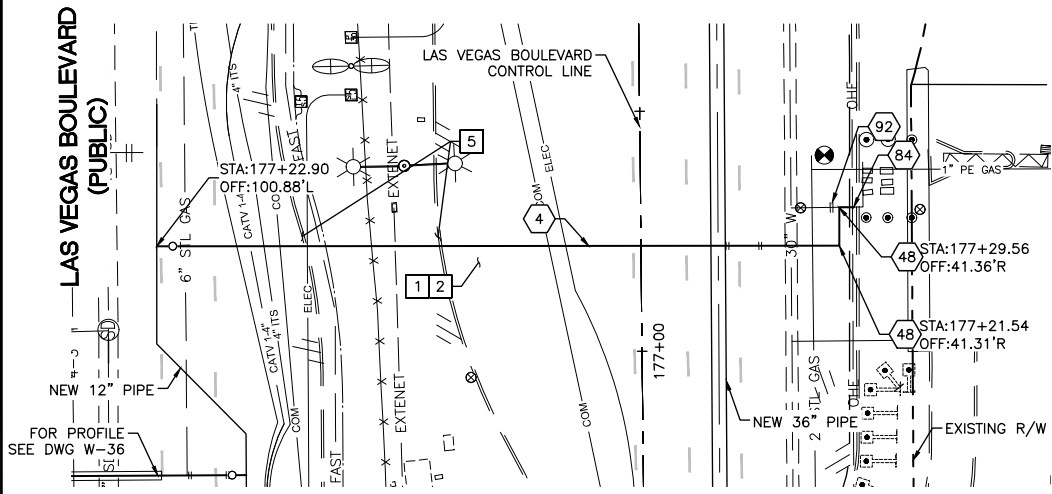
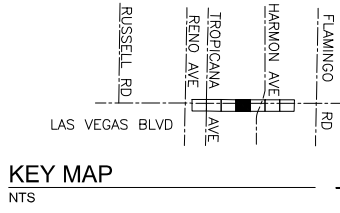
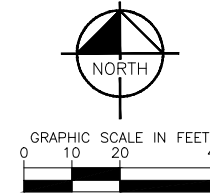
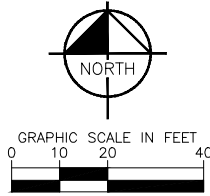
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Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3500

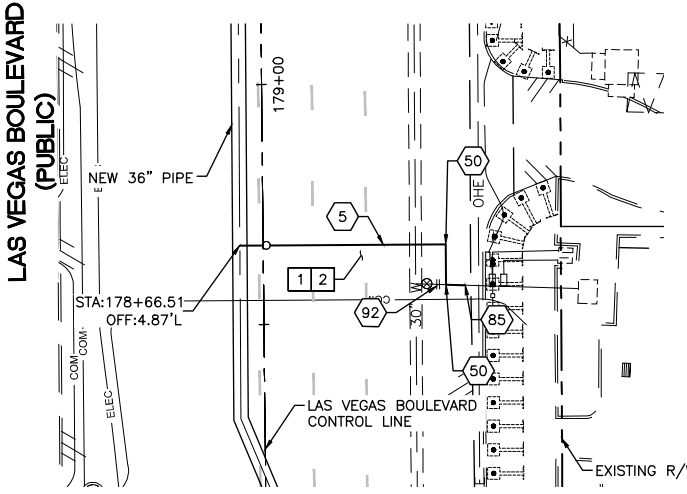
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 SHT. 41 OF 80
 L-2304

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6" WATER LATERAL RECONNECTION
 STA: 177+22.90
 SEE DWG NO. W-11



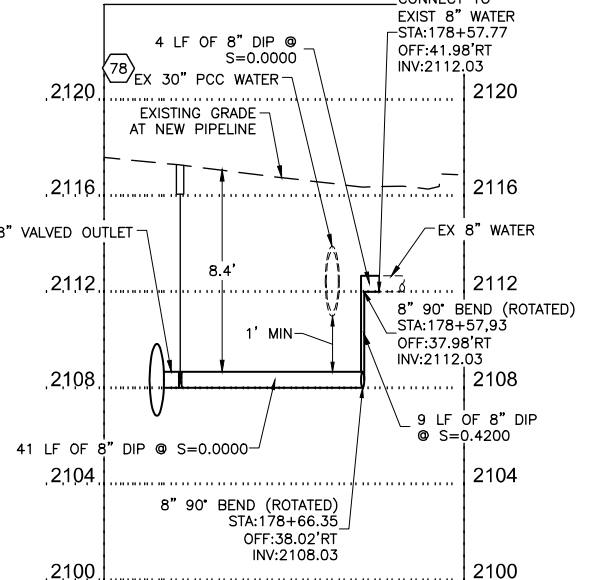
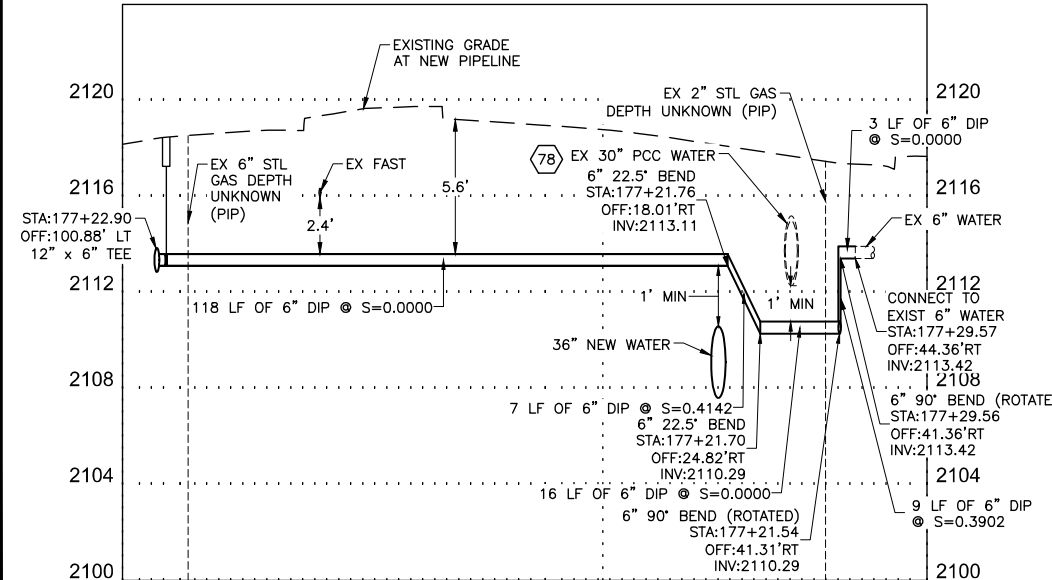
8" WATER LATERAL RECONNECTION
 STA: 178+66.51
 SEE DWG NO. W-5

CONSTRUCTION INDEX

- 4 INSTALL 6" DIP, RESTRAIN AND BOND ALL JOINTS
- 5 INSTALL 8" DIP, RESTRAIN AND BOND ALL JOINTS
- 48 INSTALL 6" X 90° BEND, RESTRAIN JOINTS
- 50 INSTALL 8" X 90° BEND, RESTRAIN JOINTS
- 78 SUPPORT EXISTING UTILITY IN PLACE DURING CONSTRUCTION. CONTRACTOR TO SUBMIT SUPPORT PLAN, SIGNED AND SEALED BY A NEVADA REGISTERED CIVIL ENGINEER, FOR APPROVAL.
- 84 CONNECT TO EXISTING 6" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 85 CONNECT TO EXISTING 8" PIPE WITH ENGINEER APPROVED SLEEVE COUPLING
- 92 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
- 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219



NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
 BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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CCWRD APPROVAL

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
 CCWRD PIPES NUMBER IS 21.955
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

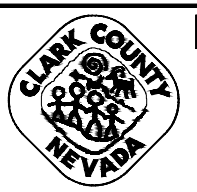
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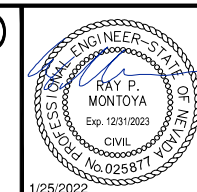
UNION PACIFIC RAILROAD
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NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)
 12" & 36" WATER MAIN - LATERAL PLAN AND PROFILE STA 177+22 & STA 178+66
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

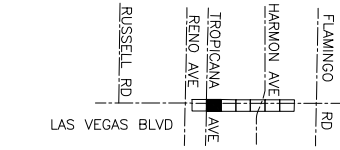
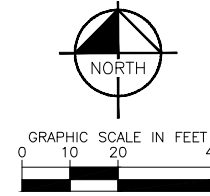
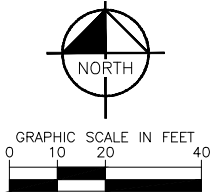


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 APPROVED BY: FIELD BOOK VERT: 1" = 4'

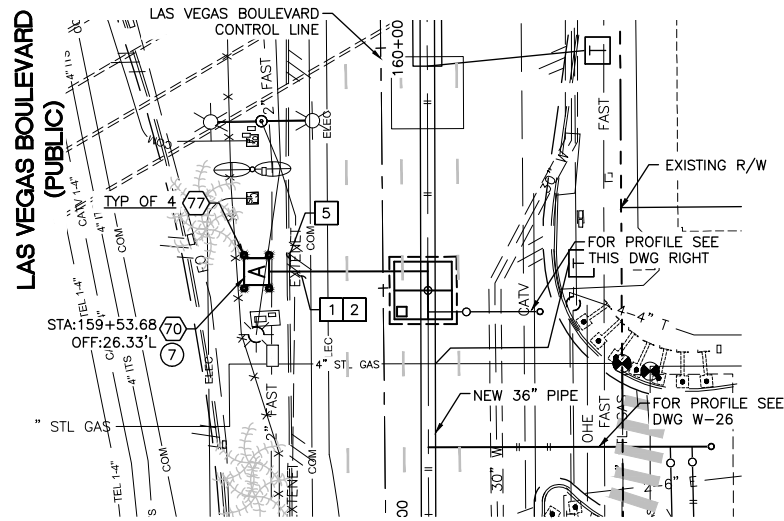
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 6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

DRAWING NO.	W-37
SHT.	42 OF 80
L-2304	

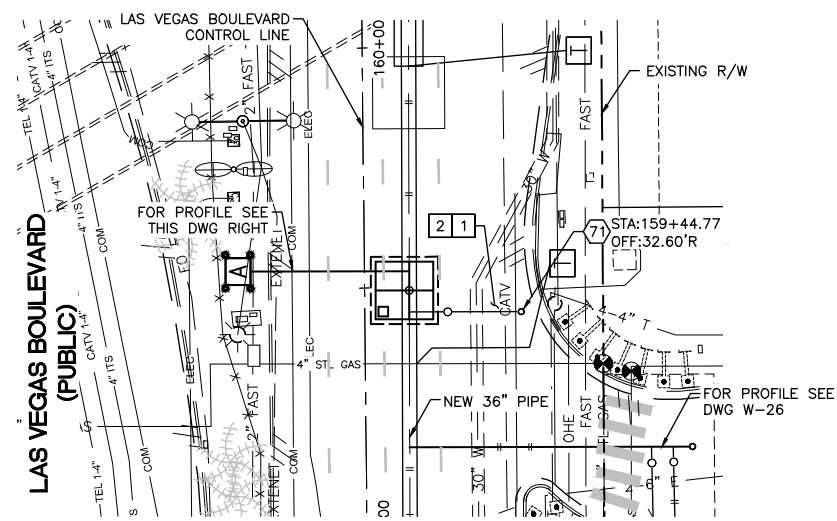
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KEY MAP
NTS



**36" VALVE VAULT
AIR VALVE ASSEMBLY
STA: 159+49
SEE DWG NO. W-2**



**36" VALVE VAULT
BLOW-OFF ASSEMBLY
STA: 159+49
SEE DWG NO. W-2**

CONSTRUCTION INDEX

- ⑦0 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
- ⑦1 INSTALL BLOW-OFF ASSEMBLY PER DETAIL 2 ON DWG WD-9
- ⑦7 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 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
- 5 REPLACE "L" TYPE ISLAND CURB PER CCAUSD DWG. NO. 219

CATHODIC PROTECTION

- ⑦ INSTALL FLANGE INSULATING KIT PER DETAIL 1 ON DWG WD-22

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
 BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
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CCWRD APPROVAL

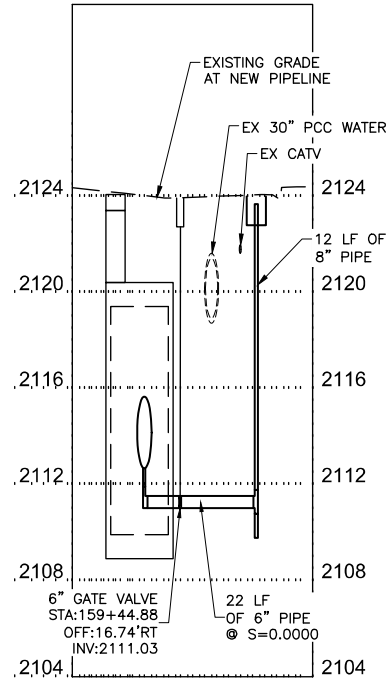
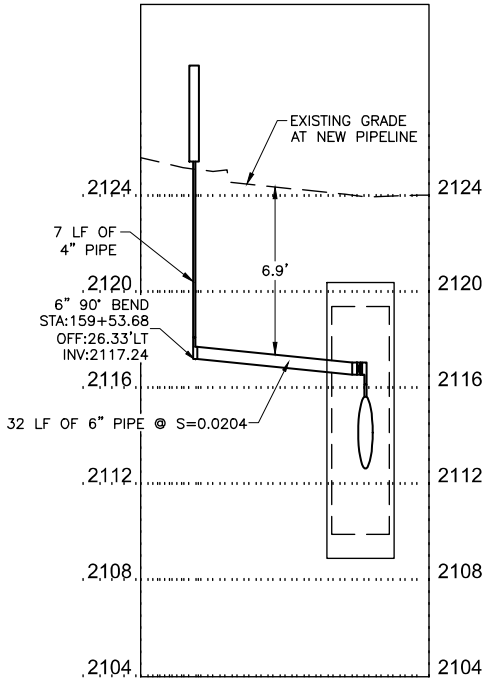
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LVVWD APPROVAL

APPROVED FOR CONSTRUCTION
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22



SAFETY ALERT
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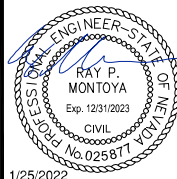


NO.	REVISIONS	DATE



**LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)**

**36" VALVE VAULT - PLAN AND PROFILE STA 159+49
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



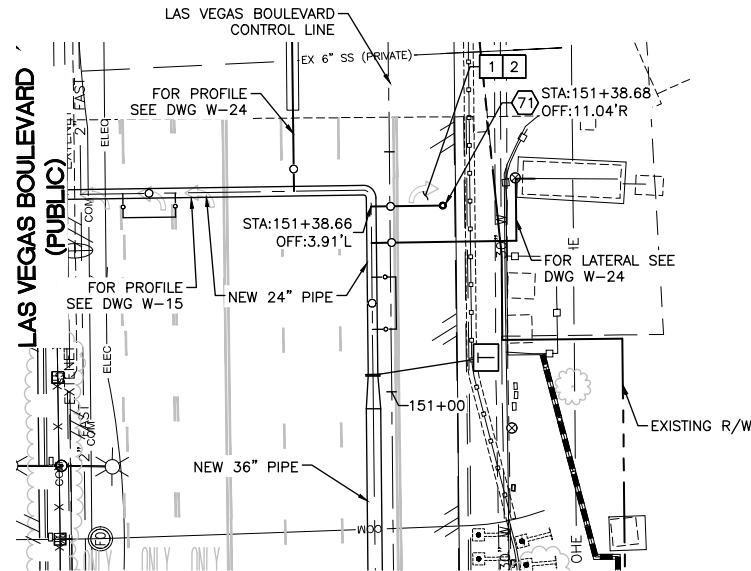
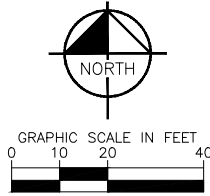
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 APPROVED BY: _____



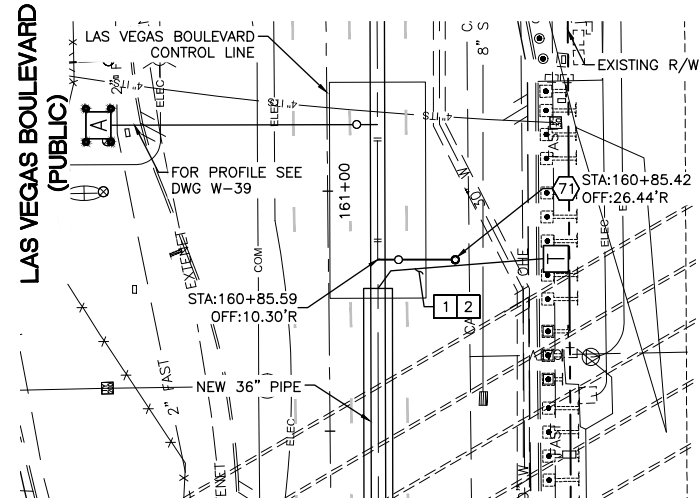
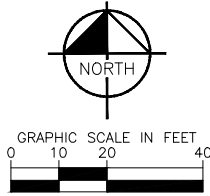
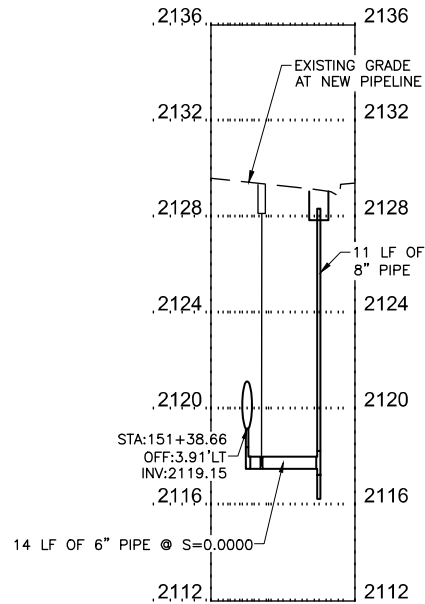
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DRAWING NO.
W-38
 SHT. 43 OF 80
 L-2304

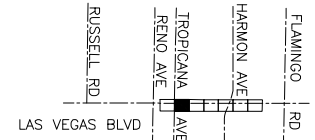
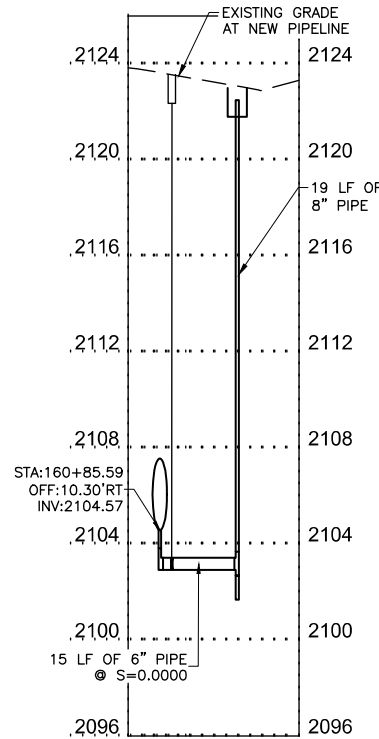
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BLOW-OFF ASSEMBLY
STA: 151+38.66
SEE DWG NO. W-1



BLOW-OFF ASSEMBLY
STA: 160+85.59
SEE DWG NO. W-2



KEY MAP
 NTS

CONSTRUCTION INDEX

- ⑦ 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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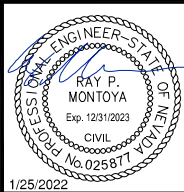
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NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

36" WATER MAIN - BLOW-OFF ASSEMBLY PLAN AND PROFILE STA 151+38 & STA 160+85
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



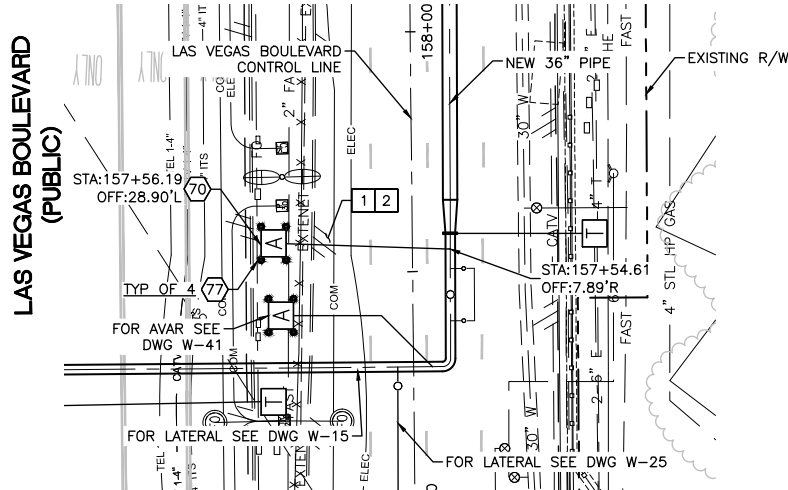
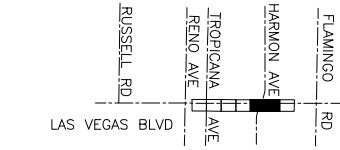
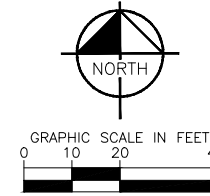
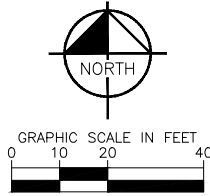
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 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____



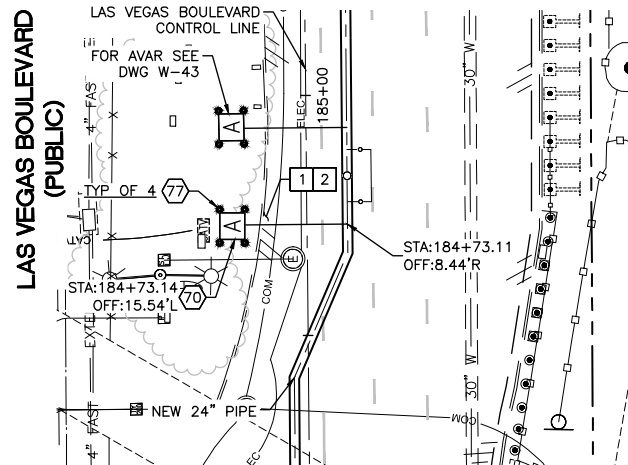
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 FIELD BOOK

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W-40
 SHT. 45 OF 80
 L-2304

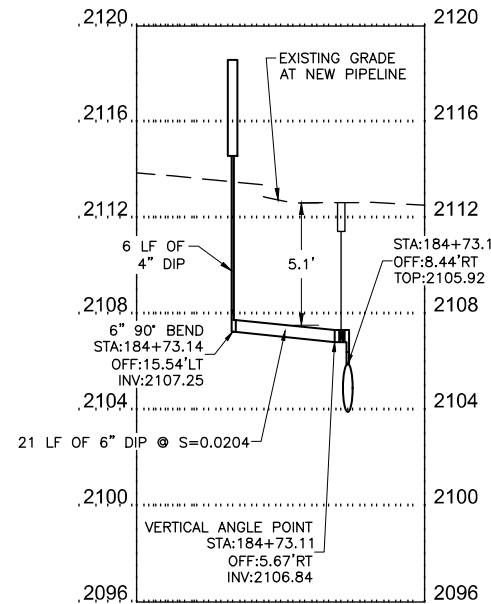
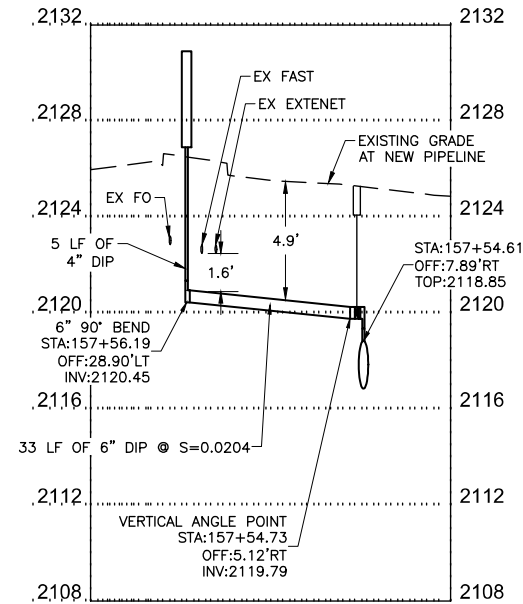
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AIR VALVE ASSEMBLY
STA: 157+54.61
SEE DWG NO. W-2



AIR VALVE ASSEMBLY
STA: 184+73.11
SEE DWG NO. W-5



CONSTRUCTION INDEX

- 70 INSTALL AIR RELEASE VALVE ASSEMBLY PER DETAIL 1 ON DWG WD-9
- 77 INSTALL PROTECTIVE BOLLARD PER UDACS PLATE NO. 75 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

NOTE: CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATIONS BETWEEN WATERLINES AND DRY UTILITIES (MIN. 3-FT HORIZONTAL AND 12-IN VERTICAL)

FIRE DEPARTMENT APPROVAL
 BY: PREVIOUSLY SIGNED BY ED KAMINSKI DATE: 3/21/22
 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

DIGITALLY SIGNED BY CALVIN STARMAN 12/09/21
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
 CCWRD PIPES NUMBER IS 21.955
 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
 DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES
 PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

811
 Know what's below
 Call before you dig
SAFETY ALERT
 Call Before You Overhead
 1-702-227-2929

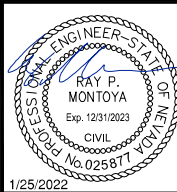
UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9193

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

24" WATER MAIN - AIR VALVE ASSEMBLY PLAN AND PROFILE STA 157+54 & STA 184+73
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

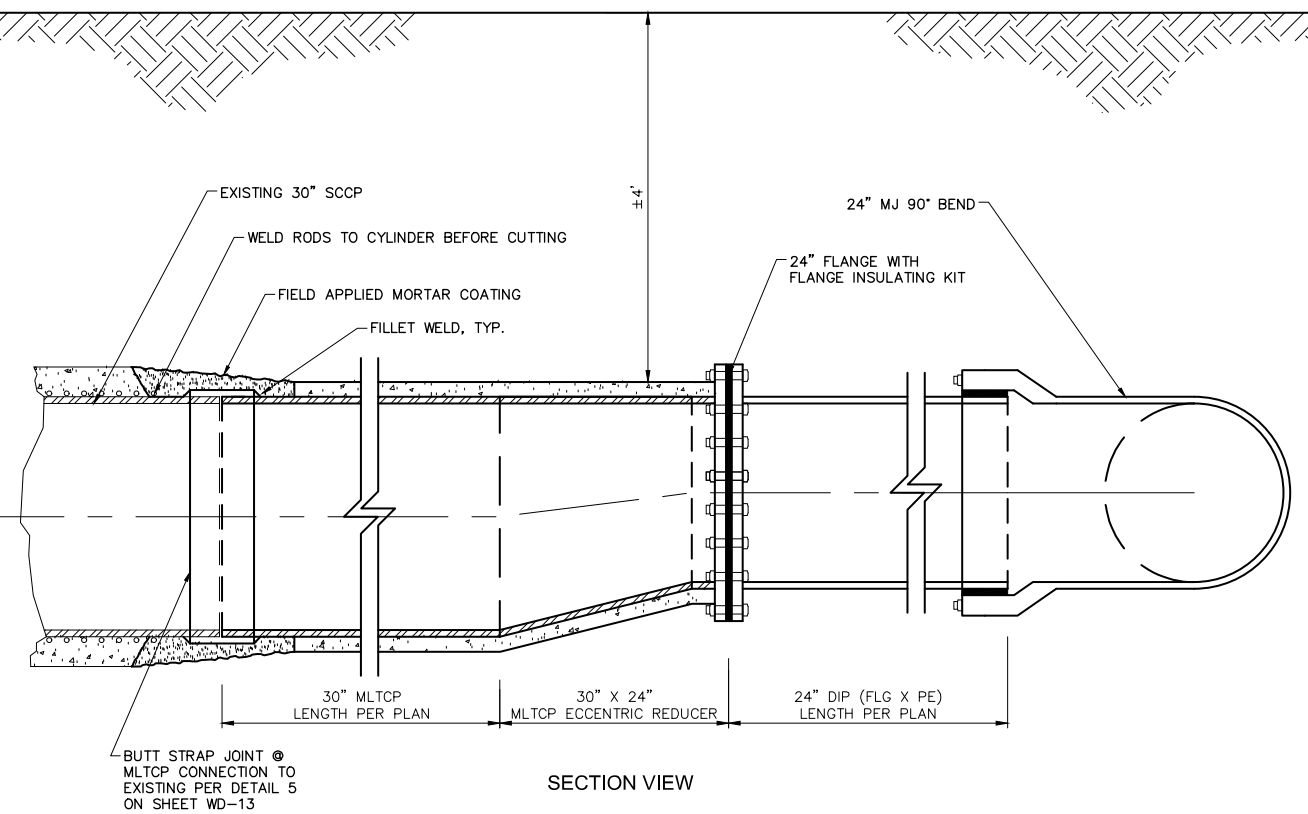
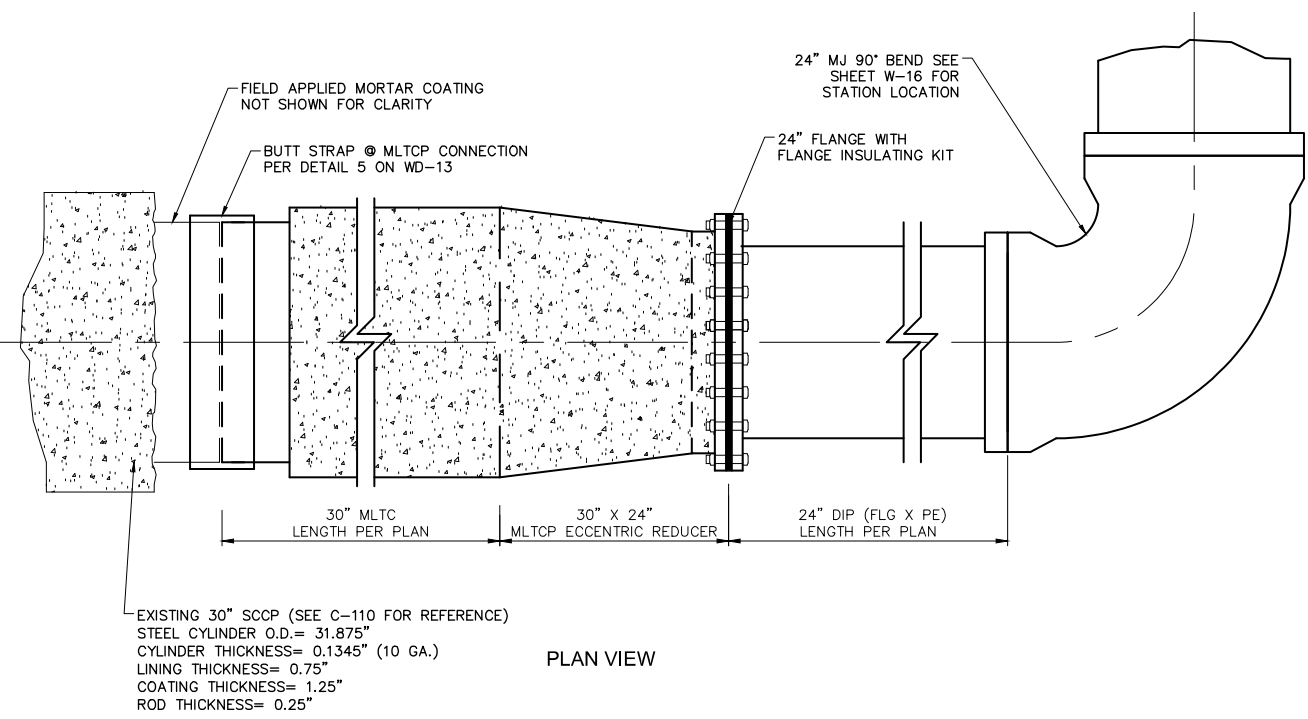


PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
 DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
 APPROVED BY: _____

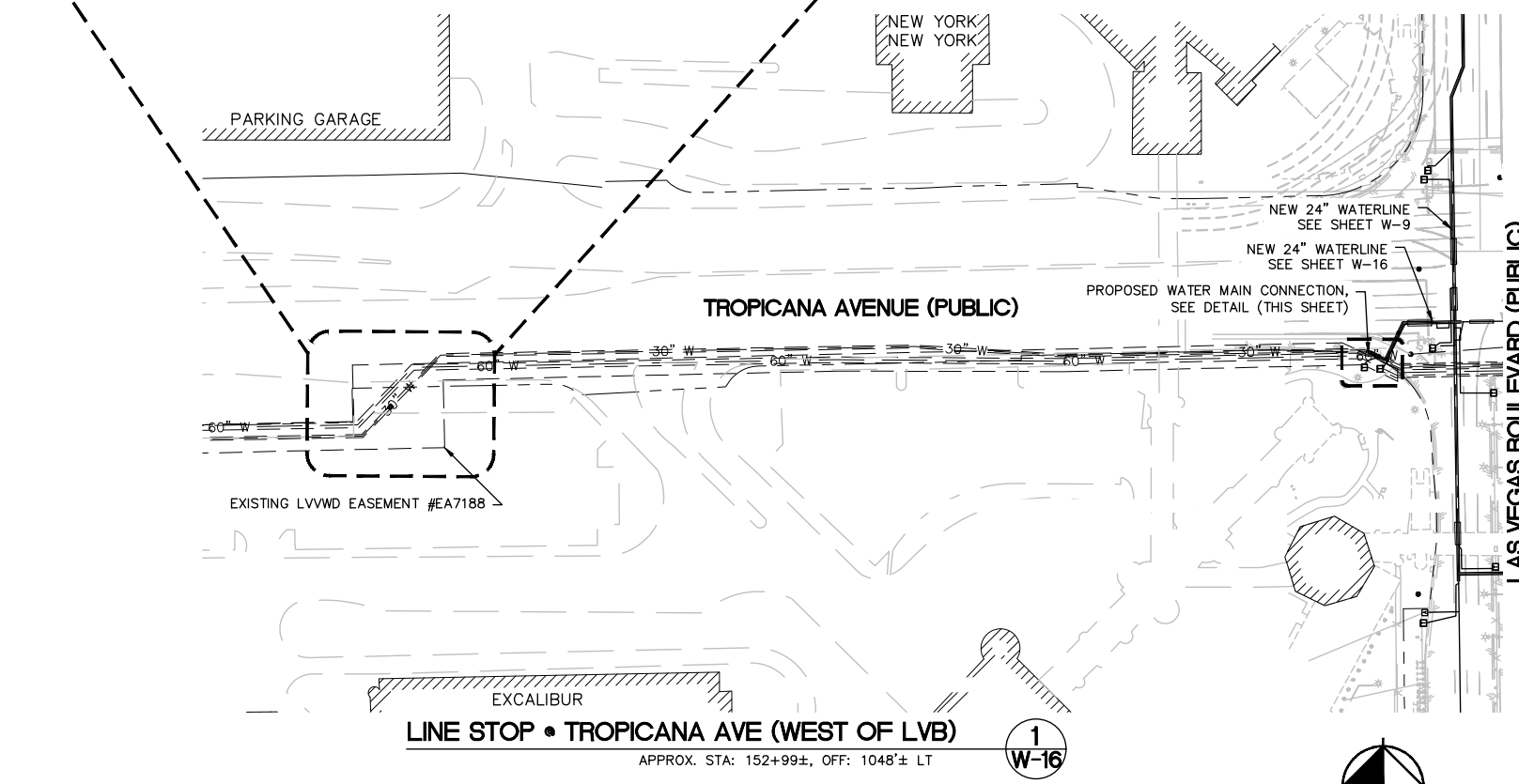
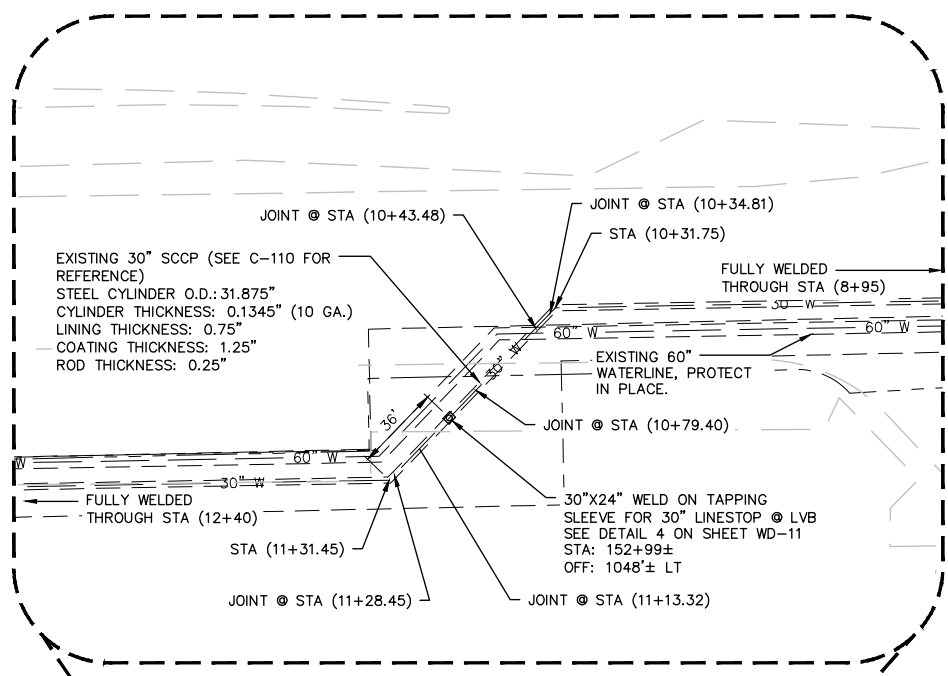
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3500

SCALE	DRAWING NO.
HORIZ: 1" = 20'	W-42
VERT: 1" = 4'	SHT. 47 OF 80
FIELD BOOK	L-2304

User: A:\Projects\2020\Las Vegas Blvd Waterline Replacement\Phase E Water Main W-16.dwg
 Plot: W-16.dwg
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WATER MAIN CONNECTION DETAIL (STA 153+38) 1 W-16
 NOT TO SCALE (FOR EX. 30" SSCP @ TROPICANA AVE)



- CONSTRUCTION NOTES**
- CONTRACTOR SHALL INSTALL 30"x24" LINESTOP FOR ISOLATION OF EXISTING 30" SSCP WATERLINE WEST OF LAS VEGAS BOULEVARD. CONTRACTOR TO USE LINESTOP FOR CONNECTION OF NEW WATERLINE TO EXISTING 30" SSCP AT INTERSECTION OF LAS VEGAS BOULEVARD AND TROPICANA AVE.
 - CONTRACTOR SHALL FIELD LOCATE EXISTING 30" SSCP WATERLINE AT PROPOSED LOCATION OF NEW LINESTOP. PROPOSED STATION AND OFFSET FOR NEW LINESTOP IS APPROXIMATE AND BASED ON AS-BUILT DRAWINGS OF THE EXISTING WATERLINE (C-110, CONSTRUCTED IN 1967). STATION AND OFFSET PROVIDED FOR PROPOSED LINESTOP CORRESPONDS TO THE LAS VEGAS BOULEVARD ROADWAY ALIGNMENT (THIS PROJECT).
 - ALL STATIONING SHOWN IN PARENTHESES IS FROM C-110 DRAWINGS, AND DOES NOT CORRESPOND TO THIS PROJECT'S ALIGNMENT. SUCH STATIONING LOCATIONS ARE PROVIDED FOR REFERENCE ONLY.
 - CONTRACTOR SHALL SCHEDULE AND COORDINATE SHUTDOWN OF EXISTING 30" SSCP WATERLINE ON TROPICANA AVENUE WITH LVVWD. LVVWD PERSONNEL MUST BE PRESENT FOR LINESTOP INSTALLATION AND SHUTDOWN.
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR PROPOSED LINESTOP TO LVVWD REPRESENTATIVES FOR REVIEW AND APPROVAL PRIOR TO START OF ANY WORK.

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE

CLARK COUNTY NEVADA

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

30" WATER MAIN CONNECTION AND LINE STOP - TROPICANA- STA 153+38 & STA 152+99

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

RAY P. MONTOYA
 Exp. 12/31/2023
 CIVIL
 No. 025871

1/25/2022

PROJECT No. 500-897-LV-EF DRAWN BY: GAG/KAS/KMT SCALE: HORIZ: 1" = 80'

DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM VERT: N/A

APPROVED BY: **Kimley Horn** FIELD BOOK SHT. 55 OF 80

6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

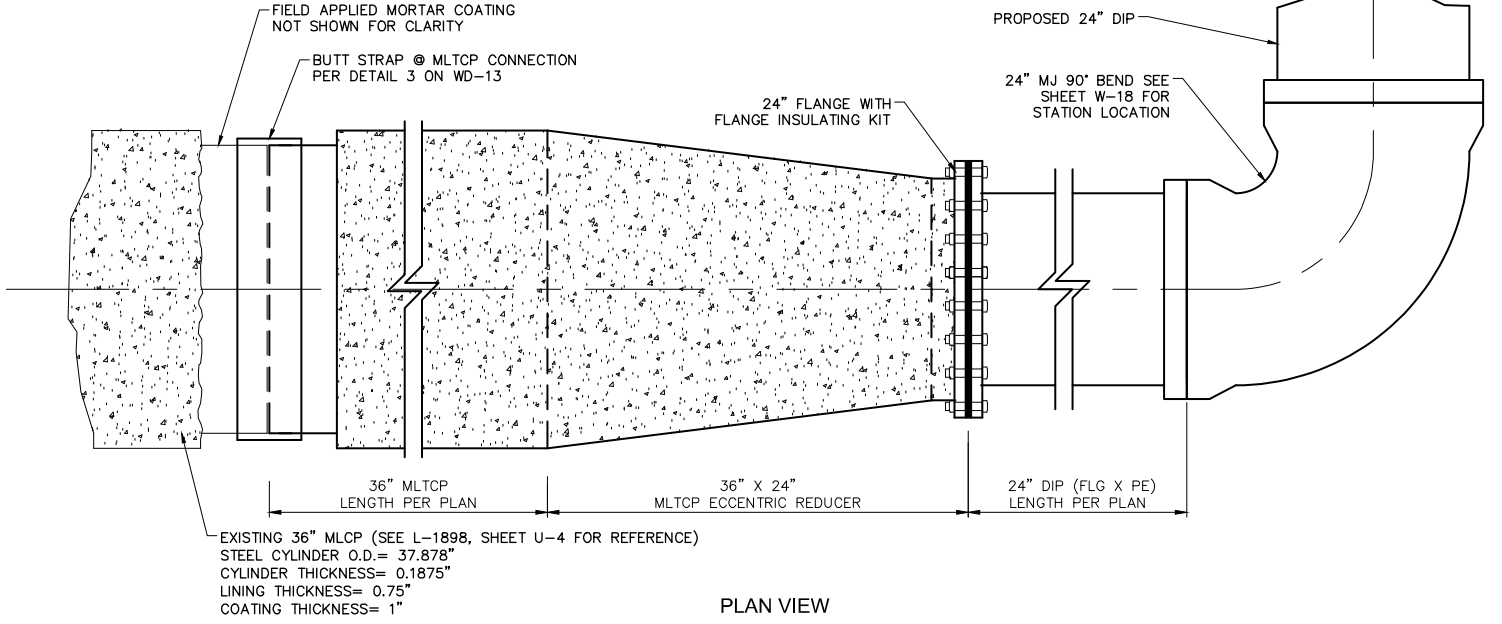
L-2304

LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

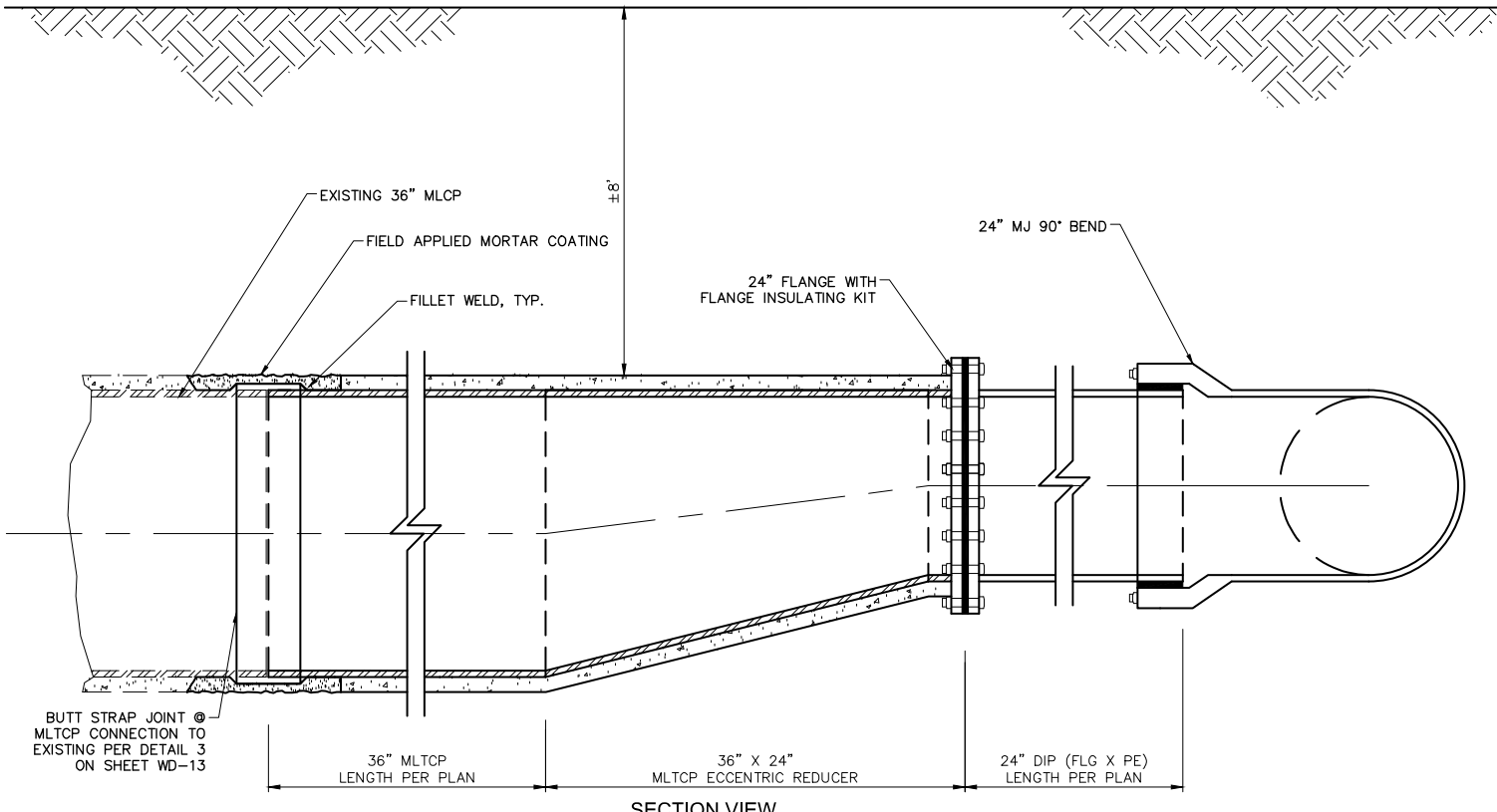
LAS VEGAS BOULEVARD (PUBLIC)

User: A:\Projects\2022\Las Vegas Blvd Waterline Replacement - Tropicana Ave to Flamingo Rd - Phase E Water Main W-51.dwg
 Plot: W-51.dwg
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FOR DIMENSIONAL DATA SEE PLAN AND PROFILE SHEET W-18



PLAN VIEW

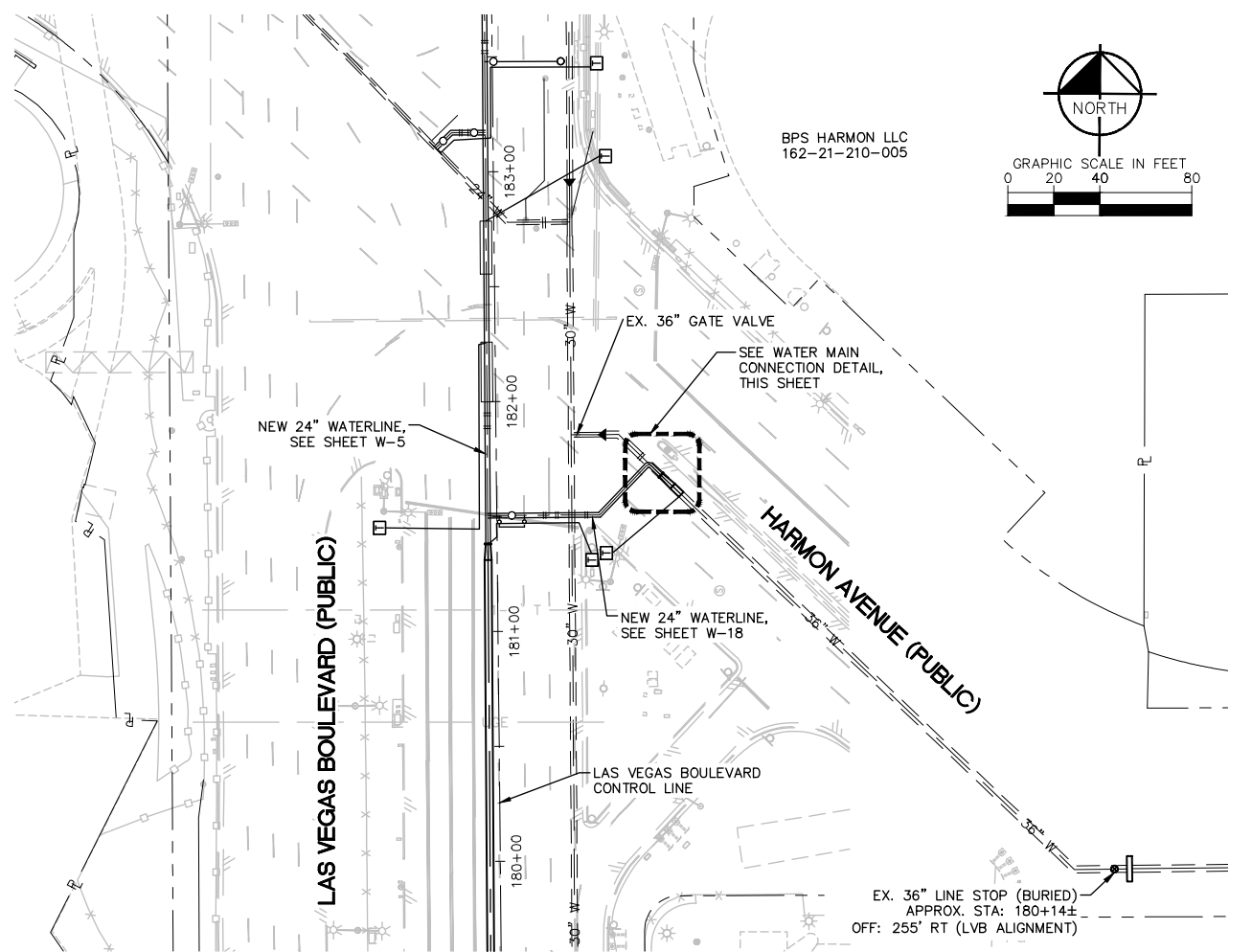


SECTION VIEW

WATER MAIN CONNECTION DETAIL (STA 181+58)

NOT TO SCALE (FOR EX. 36" MLCP @ HARMON AVE)

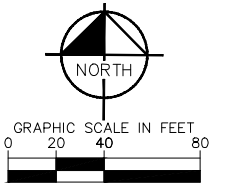
1
W-18



LINESTOP LOCATION DETAIL (HARMON AVE)

(FOR EX. 36" MLCP @ HARMON AVE)

1
W-18



BPS HARMON LLC
162-21-210-005

CONSTRUCTION NOTES

- CONTRACTOR SHALL INSTALL 36" LINE STOP ON EXISTING BURIED LINE STOP, ORIGINALLY INSTALLED AS A PART OF CLARK COUNTY PROJECT #L-1898.
- ORIGINAL LINE STOP PERFORMED BY APS ON 8/25/2009
- CONTRACTOR SHALL FIELD LOCATE EXISTING BURIED LINE STOP. STATION AND OFFSET PROVIDED IN DETAIL IS APPROXIMATE ONLY AND BASED ON AS-BUILT DRAWINGS. STATION AND OFFSET ARE BASED ON THE LAS VEGAS BOULEVARD ROADWAY ALIGNMENT (THIS PROJECT).
- CONTRACTOR SHALL SCHEDULE SHUTDOWN OF EXISTING 36" MLCP WATERLINE ON HARMON AVE WITH LVVWD. LVVWD PERSONNEL MUST BE PRESENT FOR LINE STOP INSTALLATION.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LVVWD REPRESENTATIVES FOR REVIEW AND APPROVAL.

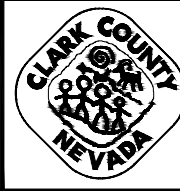
LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

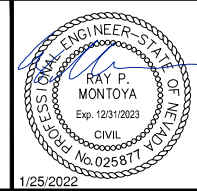
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

36" WATER MAIN CONNECTION AND LINE STOP - HARMON - STA 181+58 & STA 180+14
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



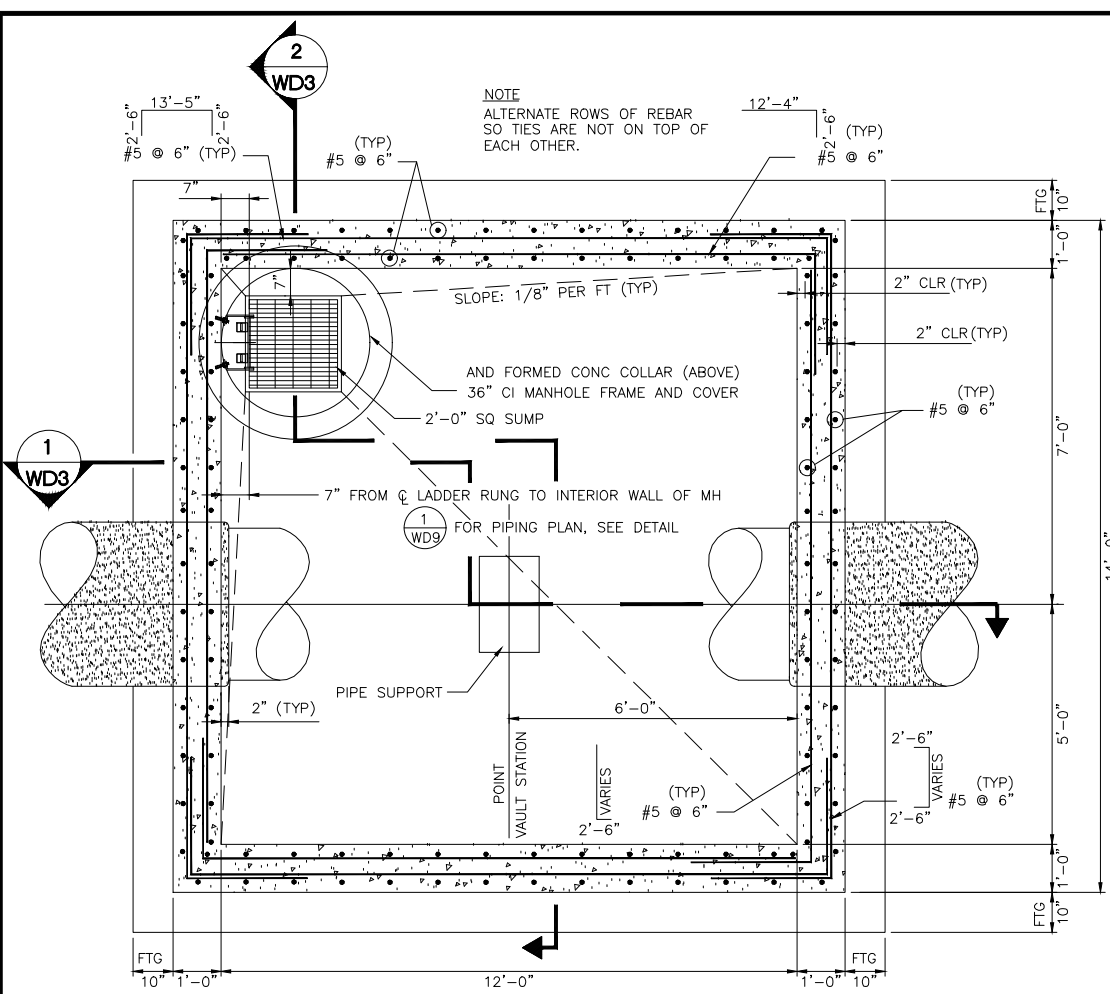
PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM

APPROVED BY: _____

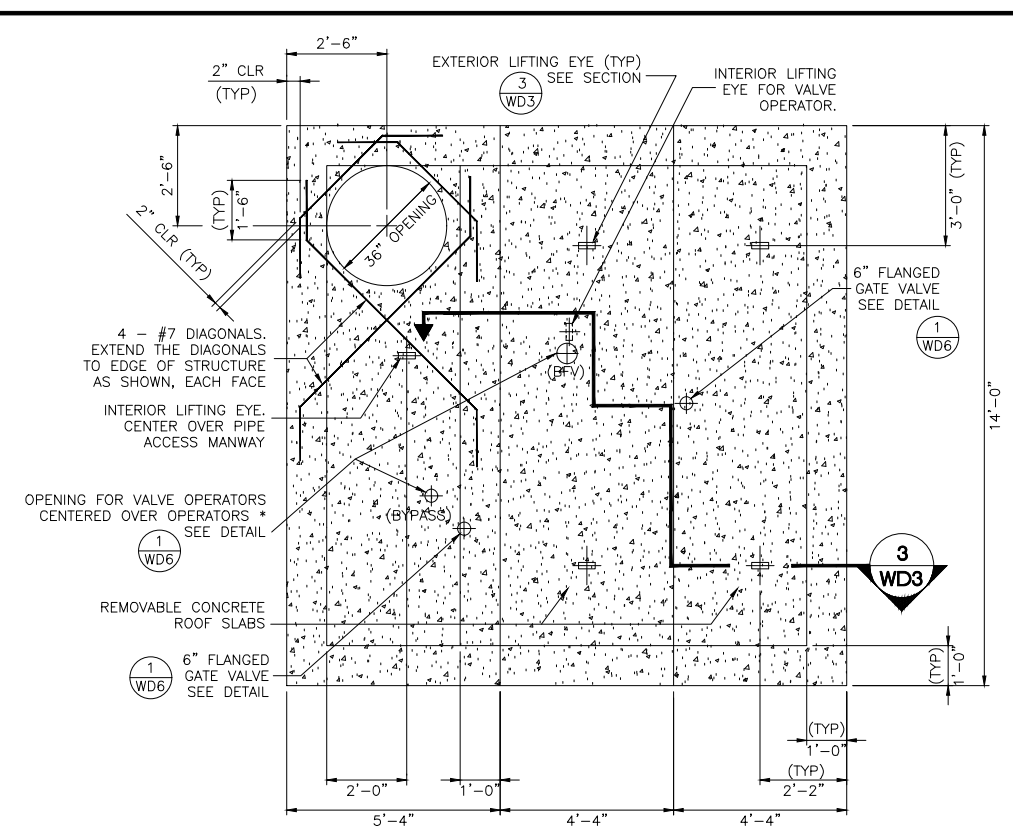
Kimley Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
HORIZ: 1" = 40'	W-51
VERT: N/A	SHT. 56 OF 80
FIELD BOOK	L-2304

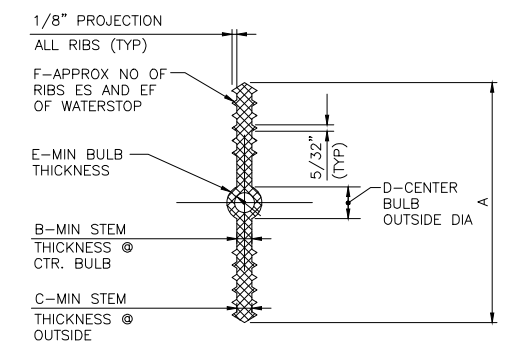
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SECTIONAL PLAN
NOT TO SCALE
WD2



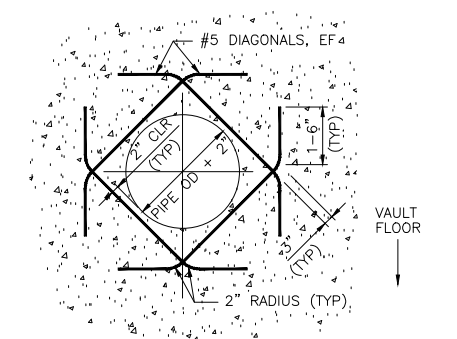
ROOF PLAN
NOT TO SCALE
WD2



SIZE	A	B	C	D	E	F
6"x3/8"	6"	3/8"	3/8"	7/8"	1/4"	6"

- NOTES:**
- MATERIAL QUALITY PER SECTION 03 30 00 OF SPECIFICATIONS.
 - DIMENSION REQUIREMENTS INDICATED SHOULD BE GIVEN TO SUPPLIERS PRIOR TO PLACING ORDERS.
 - NON-ROUND CENTER BULBS SHALL HAVE A MIN OUTSIDE DIMENSION OF "D".

WATERSTOP DETAIL
NOT TO SCALE
WD2, WD3



WALL OPENING - DIAGONAL REINFORCEMENT DETAIL
NOT TO SCALE
WD2, WD3

- NOTES**
- CONCRETE FOR VAULT STRUCTURES SHALL BE 4000 PSI, UNLESS OTHERWISE SPECIFIED.
 - PIPE OUTLET SHALL BE SHAPED TO FIT THE SPECIFIED PIPE DIAMETER.
 - MAINTAIN A MIN CLEARANCE OF 2" OF COVER FOR REINFORCED STEEL, UNLESS OTHERWISE SPECIFIED.
 - BACKFILL ON TOP AND ALL SIDES OF VAULT STRUCTURE WITH TYPE II AGGREGATE BASE. PLACE AND COMPACT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 - 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

DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE	APPROVED

CLARK COUNTY
NEVADA

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
CIVIL DETAILS - MAIN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

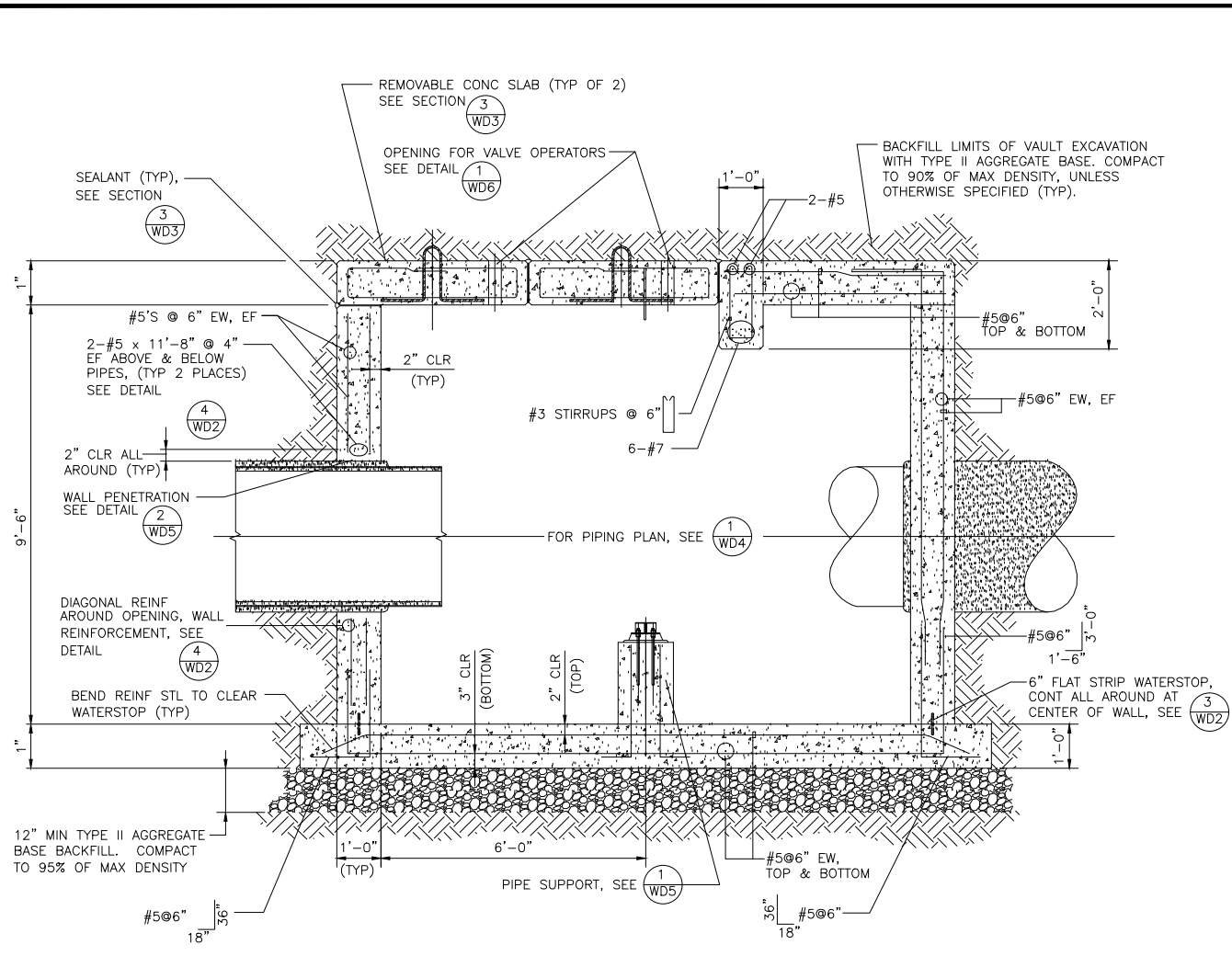
PROFESSIONAL ENGINEER - STATE OF NEVADA
RAY P. MONTOYA
Exp. 12/31/2023
CIVIL
No. 025871
1/25/2022

PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
APPROVED BY: _____

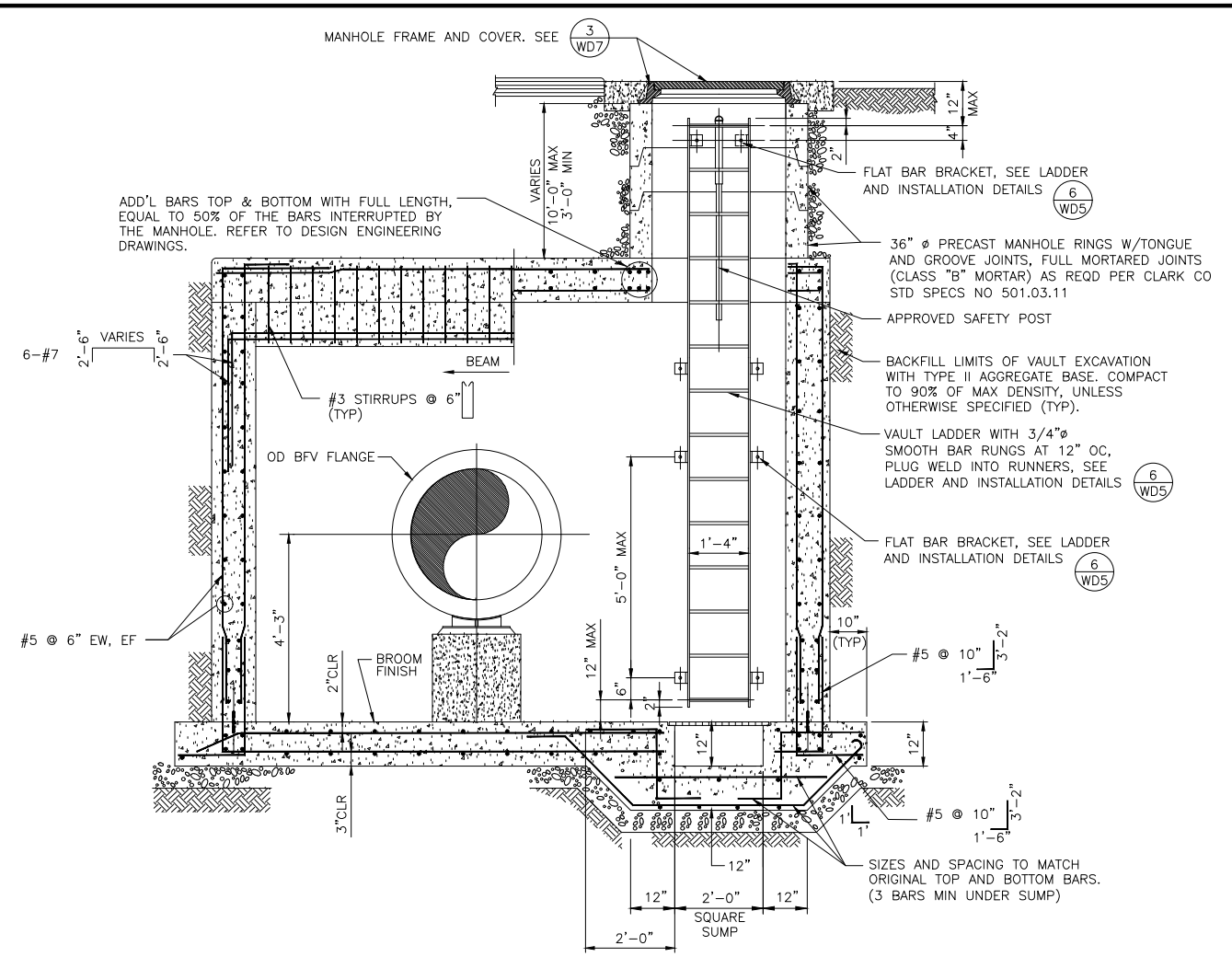
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
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VERT: N/A	SHT. 58 OF 80
FIELD BOOK	L-2304

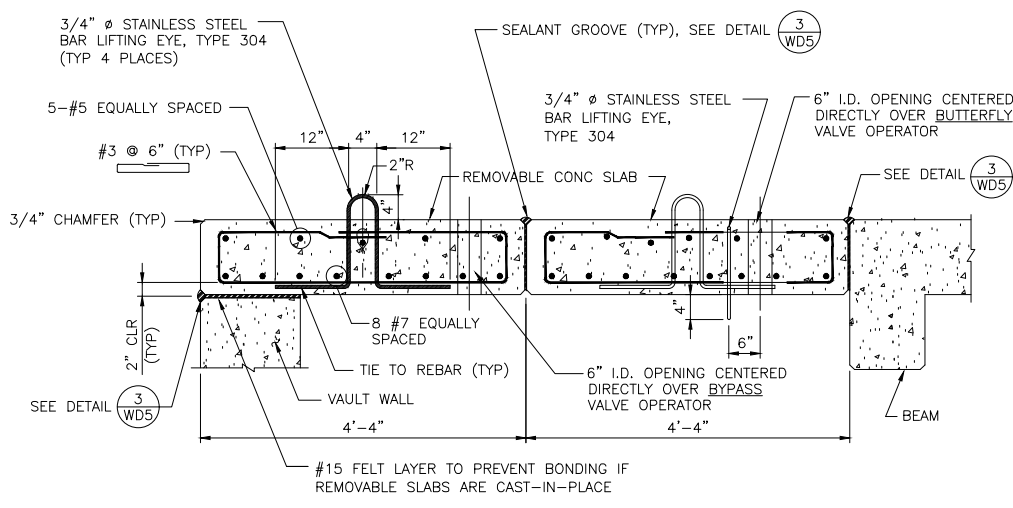
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



SECTION 1
SCALE 1/2" = 1'-0"
WD3
W2, WD2



SECTION 2
SCALE: 1/2" = 1'-0"
WD3
W2, WD2



REMOVABLE CONCRETE SLAB SECTION 3
NOT TO SCALE
WD3
W2, WD2, WD3

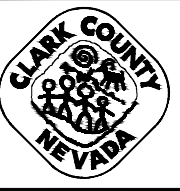
LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

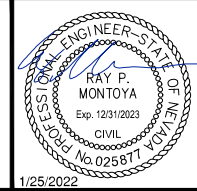
DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
CIVIL DETAILS - MAIN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

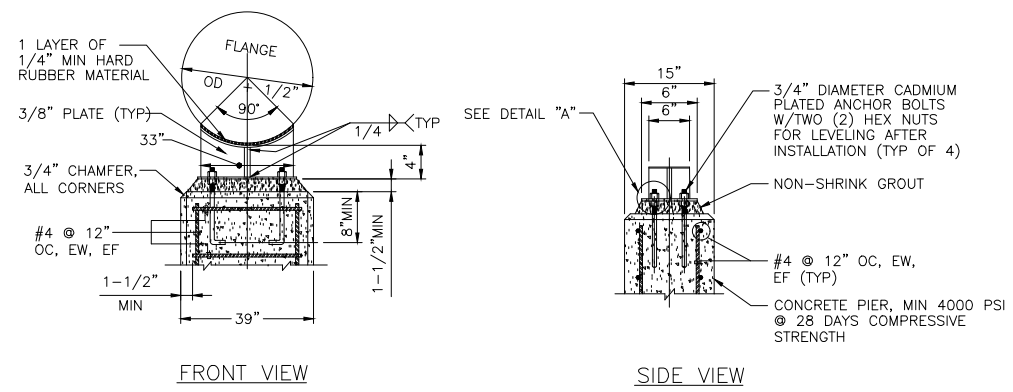


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DESIGNED BY: ROM/GAG CHECKED BY: ALF/RPM/ROM
APPROVED BY: _____

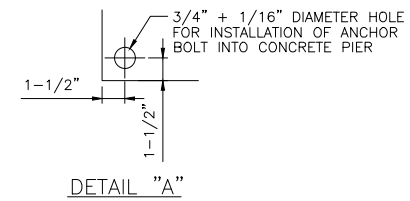
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	DRAWING NO.
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VERT: N/A	SHT. 59 OF 80
FIELD BOOK	L-2304

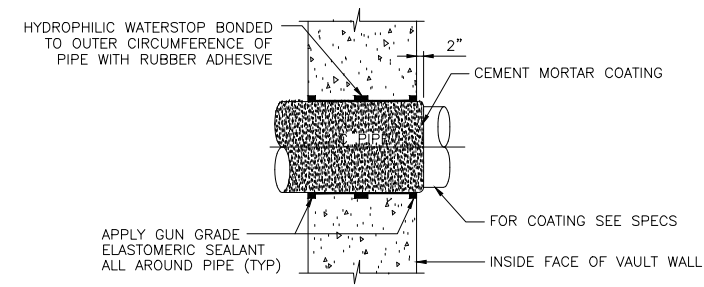
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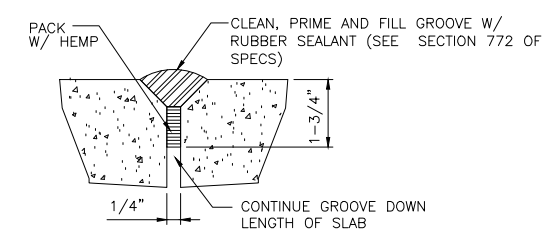
NOTE: GALVANIZE ASSEMBLY AFTER WELDING FABRICATION.



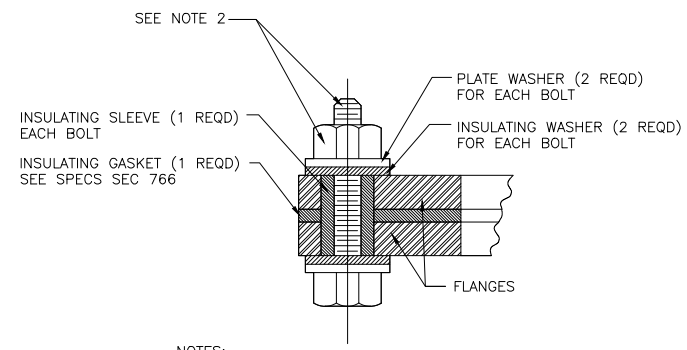
PIPE SUPPORT DETAIL 1
NOT TO SCALE
WD6
W2, WD3, WD4



WALL PENETRATION DETAIL 2
NOT TO SCALE
WD6
W2, WD3, WD4

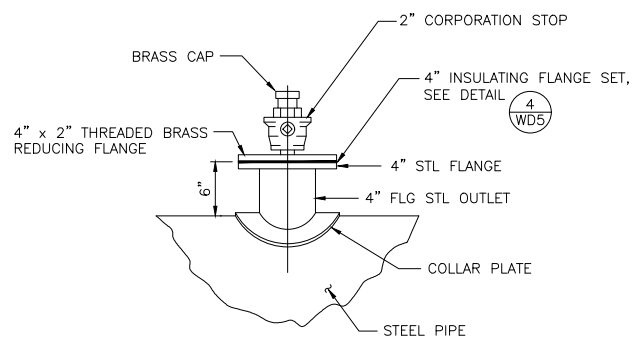


SEALANT GROOVE DETAIL 3
NOT TO SCALE
WD6
W2, WD3

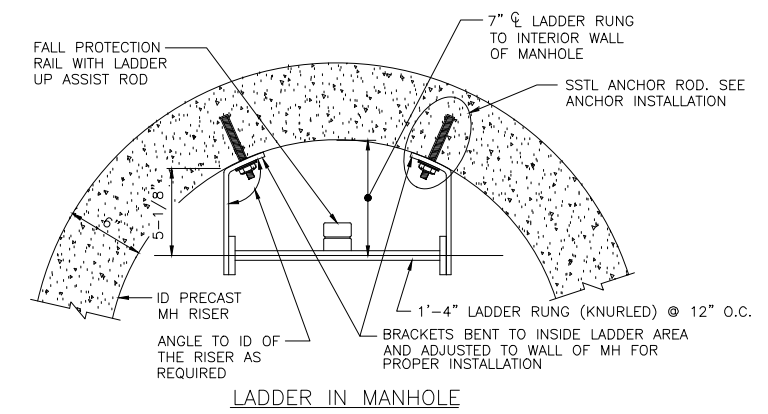
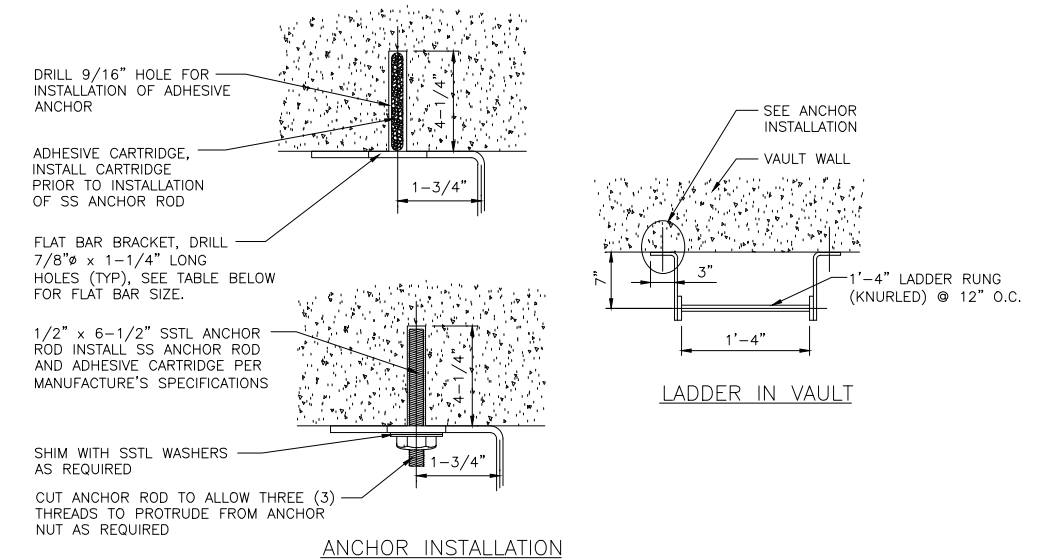


NOTES:
1. TORQUE BOLTS PER INSULATING FLANGE SET MANUFACTURERS RECOMMENDATIONS (TYP).
2. VAULT LOCATIONS: ASTM F593, SS TYPE 316 BOLT WITH ASTM A563 NUT, XLAN 1000 SERIES COATING.
BURIED OR EXPOSED LOCATIONS: ASTM A307 BOLT - UNC THREADS, WITH ASTM A563 NUT, ZINC COATED.

INSULATING FLANGE SET DETAIL 4
NOT TO SCALE
WD6
W2, WD4, WD5



CORPORATION STOP DETAIL 5
NOT TO SCALE
WD6
W2, WD4



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:
1. APPROVAL OF THE ENGINEER REQUIRED FOR ANY BRACKET SPACING OVER 5'-0" OC
2. LADDER SHALL BE MADE OF MILD CARBON STEEL WITH 3/4" DIA BAR RUNGS (KNURLED) PLUG WELDED TO RUNNERS.
3. GALVANIZE LADDER ASSEMBLY AFTER WELDING.

LADDER INSTALLATION DETAILS 6
NOT TO SCALE
WD6
W2, WD3, WD8

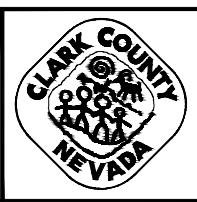
LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

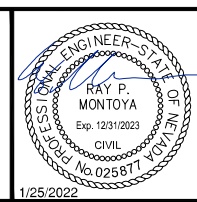
DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)
CIVIL DETAILS - MAIN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
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:	N/A	WD-5
VERT:	N/A	
FIELD BOOK		SHT. 61 OF 80
		L-2304

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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 | 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/CJ YDS		
	FIGURE 1	FIGURE 2	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 4, Δ
4"	2	2	2	1	1.0	0.5	0.5
6"	2	3	4	2	1.5	1.0	0.5
8"	3	5	7	4	3.0	1.5	1.0
10"	4	8	11	6	4.0	2.5	1.5
12"	6	11	15	8	6.0	3.0	1.5
					10.5	6.0	3.0
					13.5	7.5	3.5
					16.0	9.0	4.5
					23.5	12.5	6.5

NOT TO SCALE | FILE NAME: UDACS-31 | 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 | 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 | EXCAVATION FOR WET TAPS | UDACS PLATE NO. 34 | SHEET 1 OF 1

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NO.	REVISIONS	DATE

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LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD

(PHASE E/F)

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI

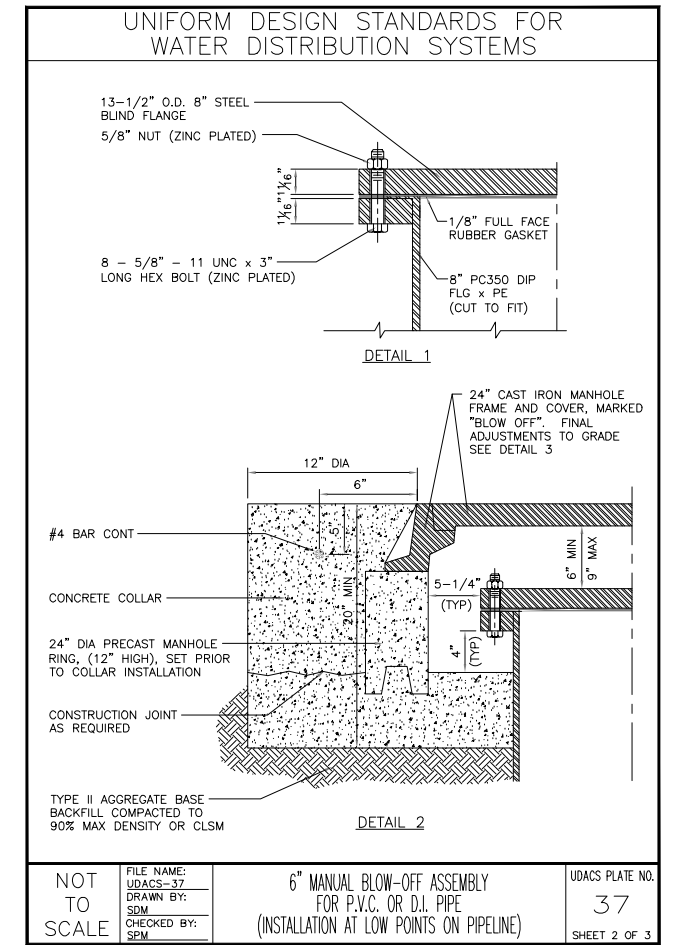
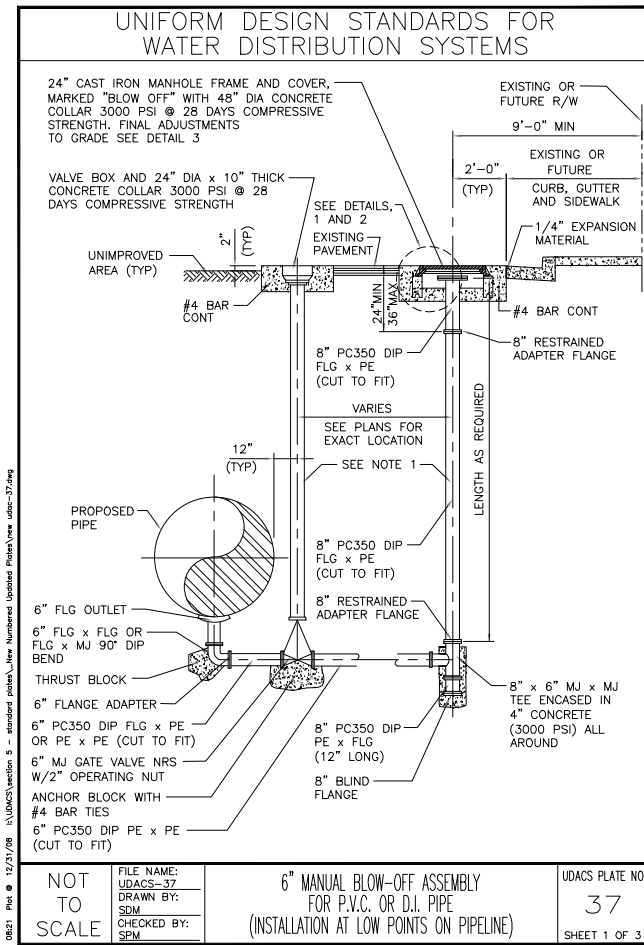
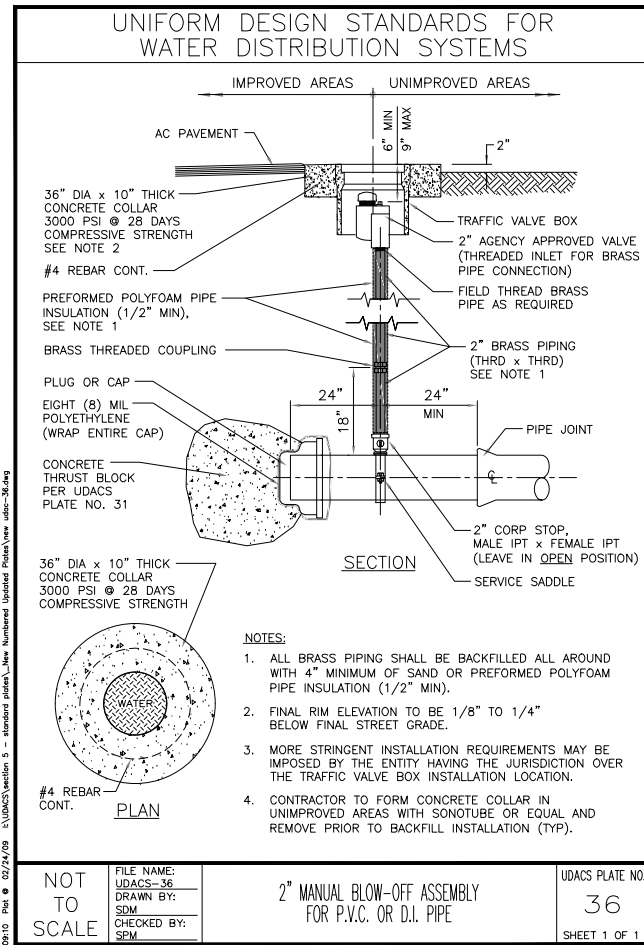
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

PROJECT No: 500-897-LV-EF	DRAWN BY: GAG/KAS/KMT	SCALE	DRAWING NO.
DESIGNED BY: ROM/GAG	CHECKED BY: ALF/RPM/ROM	HORIZ: N/A	WD-15
APPROVED BY: _____		VERT: N/A	
Kimley»Horn		FIELD BOOK	SHT. 71 OF 80
6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600			L-2304

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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



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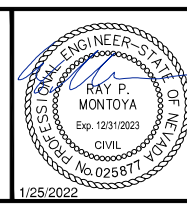
PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE

LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD (PHASE E/F)

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
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SCALE	DRAWING NO.
HORIZ: N/A	WD-16
VERT: N/A	SHT. 72 OF 80
FIELD BOOK	L-2304

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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	FIRE HYDRANT INSTALLATION	UDACS PLATE NO. 40 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	DEEP FIRE HYDRANT INSTALLATION	UDACS PLATE NO. 41 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	VEHICULAR PROTECTION BOLLARD	UDACS PLATE NO. 75 SHEET 1 OF 1
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LVVWD APPROVAL

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DIGITALLY SIGNED BY JASON GHADERI
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT No. 139055 FIRST APPROVED DATE 4/12/22

NO.	REVISIONS	DATE

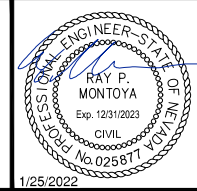
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LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD

(PHASE E/F)

CIVIL DETAILS - LATERAL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: GAG/KAS/KMT
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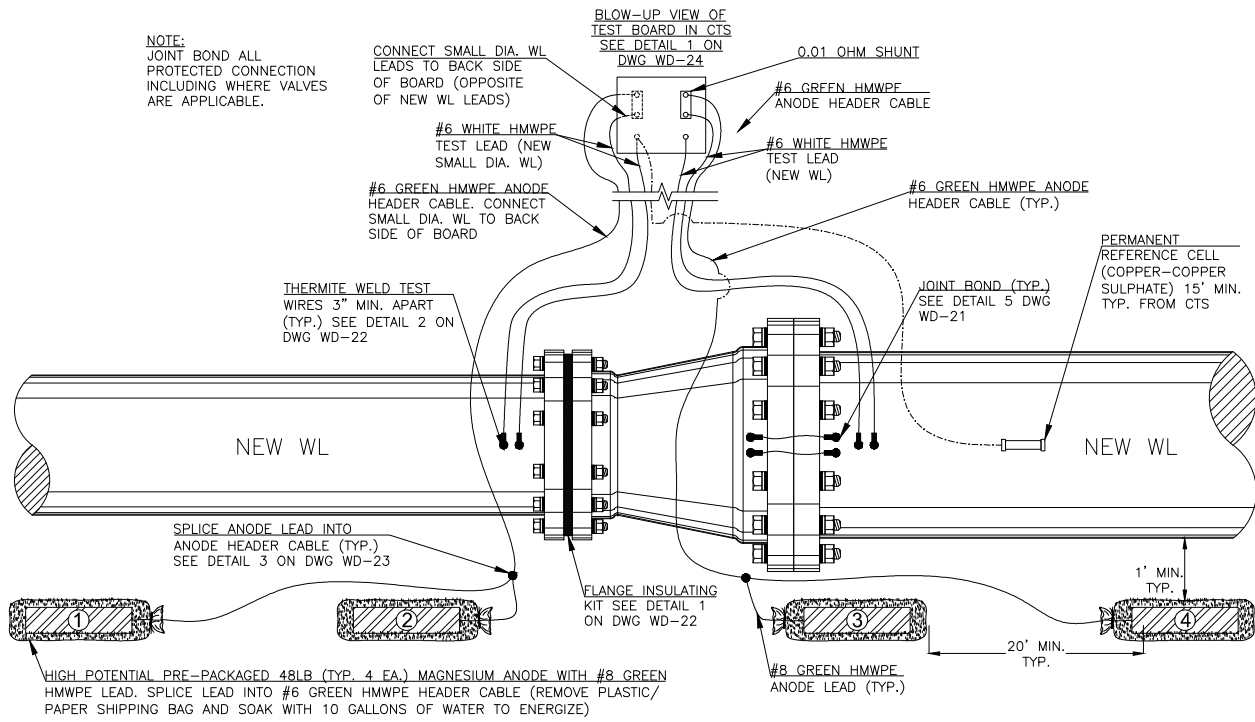
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SCALE	HORIZ: N/A	DRAWING NO. WD-18
	VERT: N/A	SHT. 74 OF 80
	FIELD BOOK	L-2304

User: shwnadapugh
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NOTE:
 JOINT BOND ALL
 PROTECTED CONNECTION
 INCLUDING WHERE VALVES
 ARE APPLICABLE.



**TYPE I TEST STATION
 AT ISOLATED WATER MAIN**

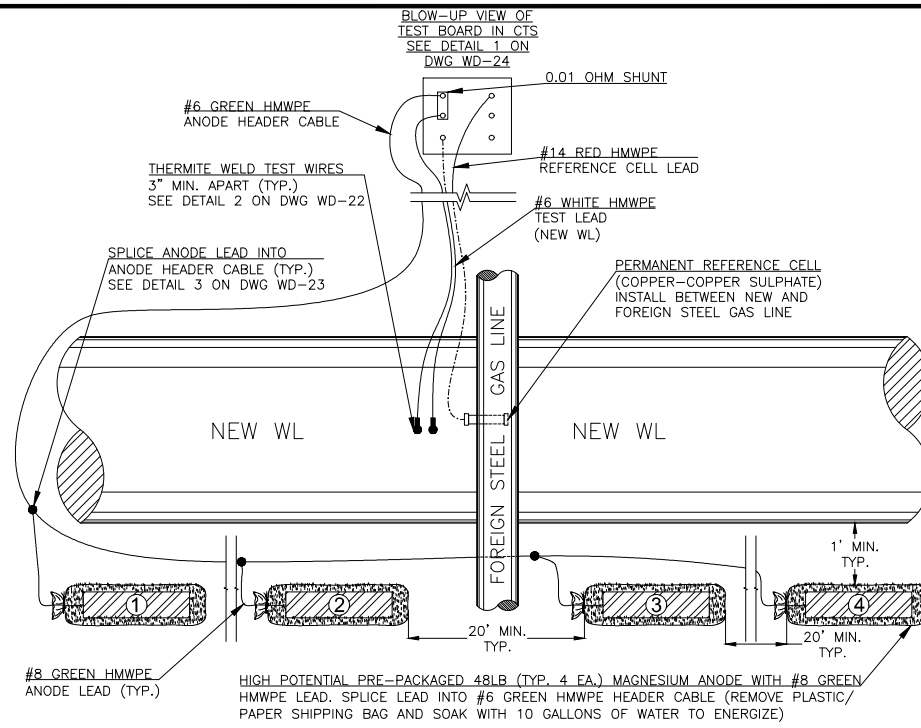
NOT TO SCALE

1
 WD-20

**TYPE F TEST STATION
 AT GASLINE CROSSING**

NOT TO SCALE

2
 WD-20



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 N/A
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.
- ALTERNATE EACH CATHODIC PROTECTION TEST STATION ANODES EVERY OTHER SIDE OF PIPE TO EVENLY CONTRIBUTE PROTECTION ALONG PIPELINE.

NOTE:

- CONTRACTOR SHALL PERFORM NO WORK ON THE GAS LINE DURING THE INSTALLATION OF THE CATHODIC PROTECTION SYSTEM, INCLUDING ANY INSTALLATION OF TEST LEADS. NOTIFY OWNER OF FOREIGN GASLINE 36 HOURS PRIOR TO TRENCHING. PERMANENT REFERENCE CELL SHALL BE INSTALLED EVENLY BETWEEN THE WATER MAIN AND GAS LINE, WITH NO CONTACT MADE BETWEEN REFERENCE CELL AND EITHER PIPE.
- ANODE INSTALLED AT BOTTOM OF TRENCH OR BELOW/OUT OF SLURRY IN NATIVE.
- REFERENCE CELL BORIN STEALTH OR EQUAL.

**TYPE I TEST STATION
 AT ISOLATED OUTLET/TIE IN**

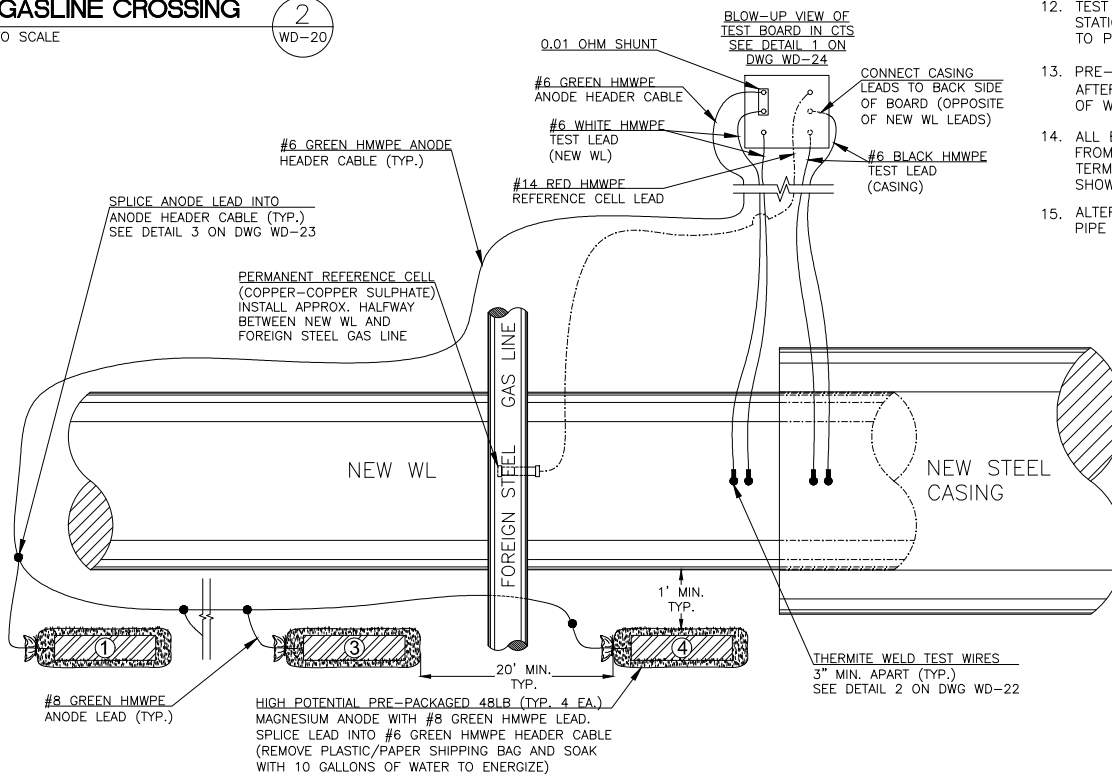
NOT TO SCALE

3
 WD-20

**TYPE C/F TEST STATION AT CASING
 AND NEARBY GASLINE CROSSING**

NOT TO SCALE

4
 WD-20



LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI

PROJECT No. 136878 FIRST APPROVED DATE 4/12/22



DESIGNED BY: SMG CHECKED BY: SMG
 APPROVED BY: DATED: 12/10/21



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SCALE	DRAWING NO.
HORIZ:	WD-20
VERT:	SHT. 76 OF 80
FIELD BOOK	L-2304

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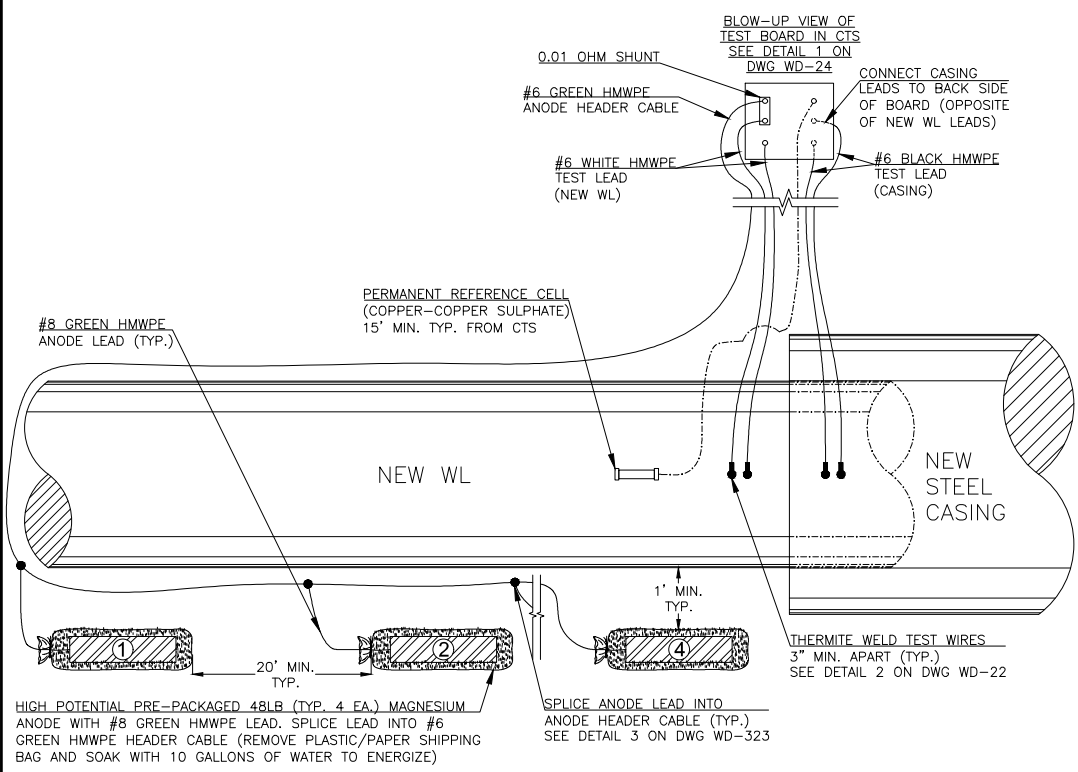


**LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
 (PHASE E/F)
 CATHODIC PROTECTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

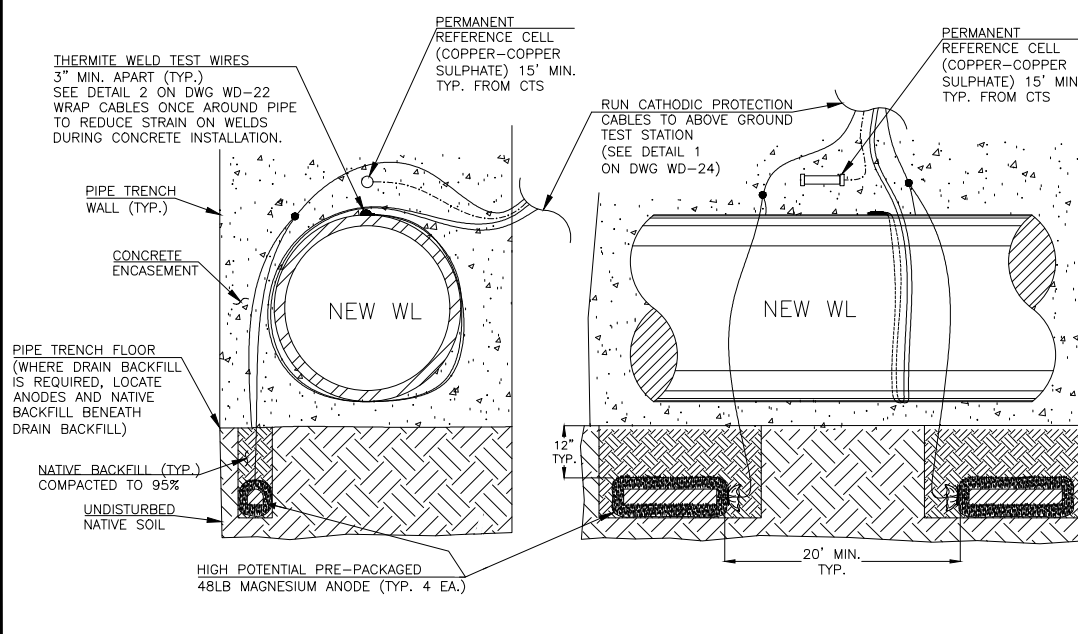
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

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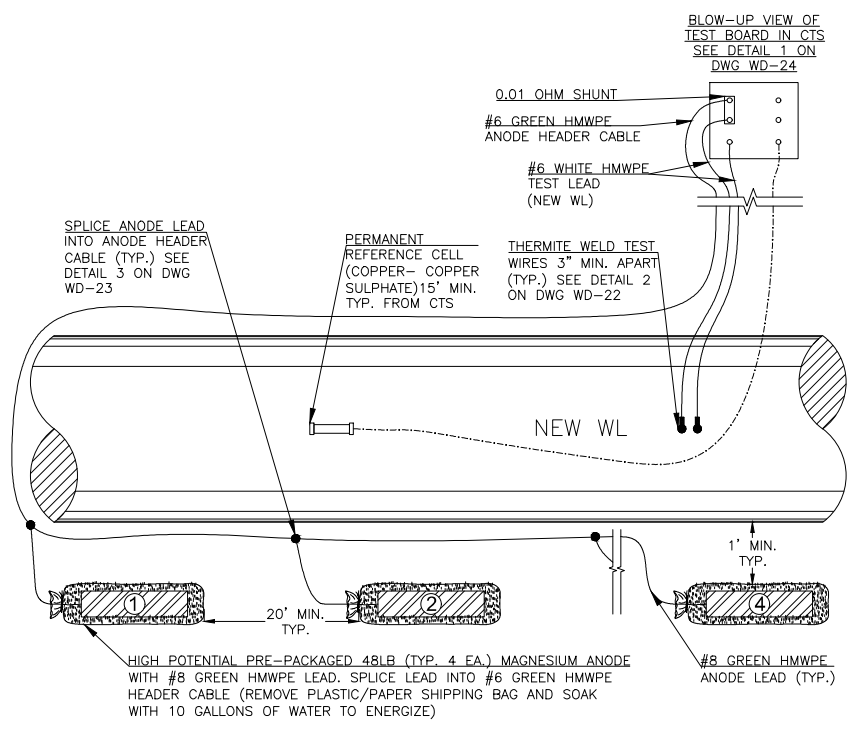
LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS



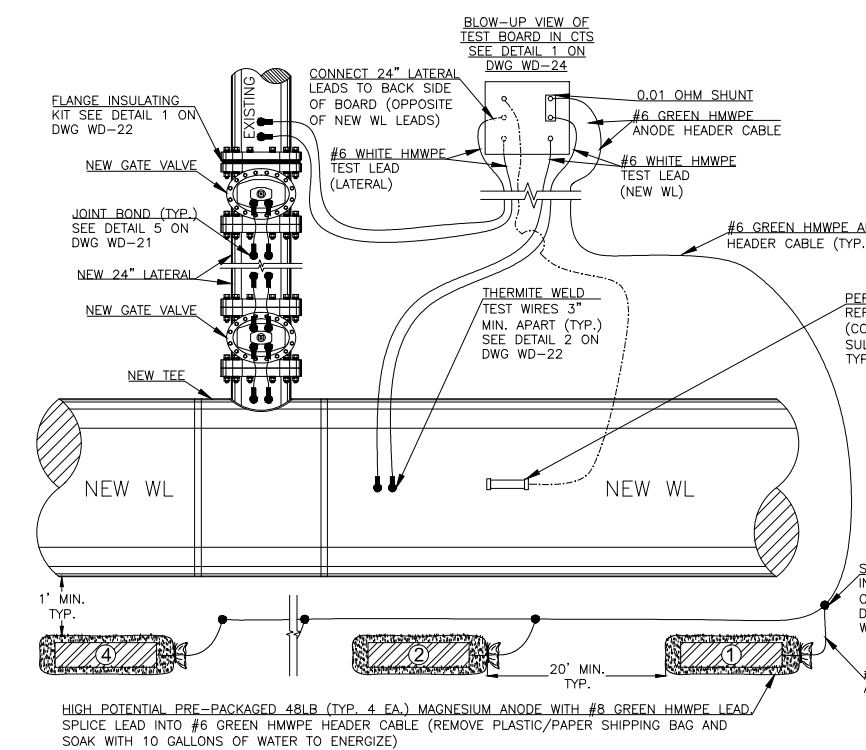
TYPE C TEST STATION AT ISOLATED STEEL CASING
 NOT TO SCALE
 1
 WD-21



ANODE INSTALLATION AT CONCRETE ENCASUREMENT
 NOT TO SCALE
 3
 WD-21



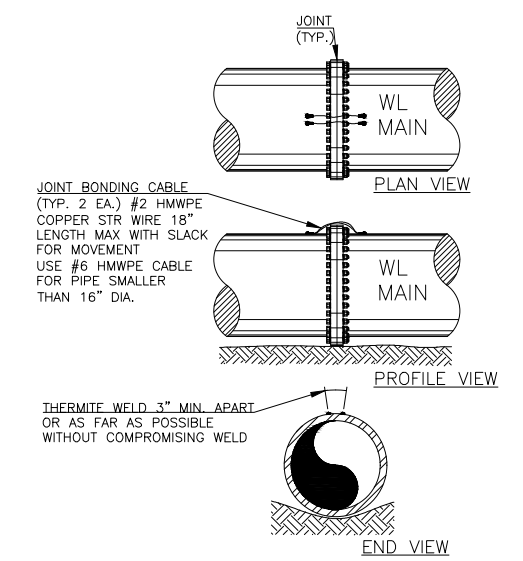
TYPE T TEST STATION TYPICAL CTS WITH ANODES
 NOT TO SCALE
 2
 WD-21



TYPE I TEST STATION AT 24\"/>

LAS VEGAS PHASE E/F TRANSMISSION MAIN - CATHODIC PROTECTION SYSTEM LOCATIONS							
REF	STATION#	DETAIL #	TEST LEAD PAIRS	FKI SIZE	PIPE MATERIAL	CTS TYPE	DESCRIPTION
1	147+25	2 / WD-21	1		36" MLTC	T	BEGIN NEW 36" MLTC MAIN (Isolate from Future)
2	147+41.38	4 / WD-21	2	16"	16" DIP	I	16" Valve Isolation from Existing 30"
3	149+17	2 / WD-20	1		36" MLTC	F	Existing 2" STL Gas
4	151+03.5	1 / WD-20	1	24"	36" MLTC	I	Transition from 36" MLTC to 24" DIP
5	151+32.93	1 / WD-20	2	12"	24" DIP	I	Isolated at 12" Gate Valve off New 12" DIP (Put FKI on Valve 12")
6	151+70	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
7	153+34.96	1 / WD-20	2	24"	24" DIP	I	Isolated at 24" DIP to Existing 30" SCCP at Tropicana Ave.
8	153+64.73	4 / WD-20	2		24" DIP	C/F	42" Steel Casing 21 LF and Existing 4" STL Gas at Sta. 153+64.73
9	153+65.07	3 / WD-20	1	12"	24" DIP	I	Isolated at Gate Valve off New unprotected 12" DIP
10	153+95	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
11	154+40	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
12	155+18	2 / WD-20	1		24" DIP	F	Existing 16" STL Gas
13	156+80	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
14	157+57.92	1 / WD-20	1	24"	36" MLTC	I	Transition from 24" DIP to 36" MLTC
15	159+35	2 / WD-20	2		36" MLTC	F	Existing 4" STL Gas Crossing 36" MLTC Pipe
16	160+79.59	1 / WD-21	2		36" MLTC	C	54" Steel Casing (36" MLTC Pipe)
17	165+70	1 / WD-21	2		12" DIP	C	24" Short Steel Casing Monitor Unprotected 12" DIP
18	166+00	2 / WD-21	1		36" MLTC	T	MGM (Private Road)
19	172+17	2 / WD-20	1		36" MLTC	F	Existing 2" STL Gas Crossing 36" MLTC Pipe
20	181+38.14	1 / WD-20	1	24"	36" MLTC	I	Transition from 36" MLTC to 24" DIP
21	181+67.33	4 / WD-21	2	24"	24" DIP	I	Reducer Isolation from Existing 36" at Harmon Ave.
22	182+25	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
23	182+77	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
24	183+10.51	4 / WD-21	2	24"	24" DIP	I	Valve Isolation off Existing 24"
25	188+87	2 / WD-20	1		24" DIP	F	Existing 6" STL Gas
26	191+32	1 / WD-21	2		24" DIP	C	42" Short Steel Casing
27	194+50	2 / WD-21	1		24" DIP	T	24" DIP Main
28	198+99.06	4 / WD-21	2		24" DIP	I	16" Valve Isolation from Existing 30" (Near 4" SH Gas Line Crossing)
29	199+70	2 / WD-21	1		24" DIP	T	END NEW 24" DIP MAIN (Isolate from Future)

*Station shown indicates location of the actual connection of cathodic protection leads to the pipe.
 NOTES:
 1) Connections to the water main must be isolated with flange insulating kit per 1 / WD-22.
 2) Isolate ARV, BO, and laterals as appropriate.
 3) Field locate test stations for permanency.



JOINT BOND CONFIGURATION AND INSTALLATION DETAIL
 NOT TO SCALE
 5
 WD-21



LVVWD APPROVAL

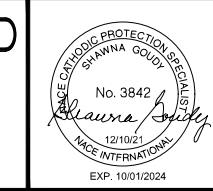
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 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 4/12/22



LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
 (PHASE E/F)
 CATHODIC PROTECTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

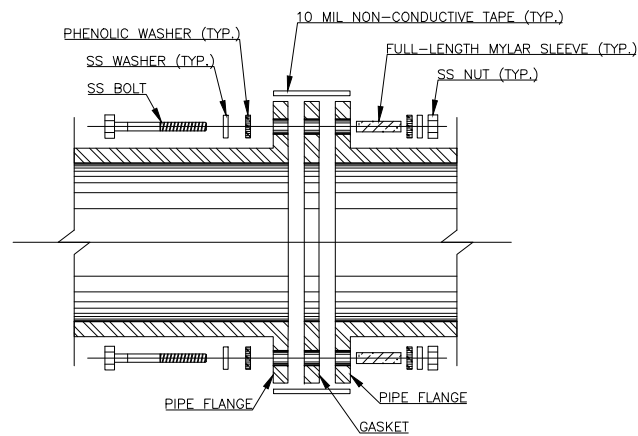


PROJECT No: 500-897-LV DRAWN BY: NET SCALE: HORIZ: VERT: FIELD BOOK: DRAWING NO. WD-21 SHT. 77 OF 80 L-2304

DESIGNED BY: SMG CHECKED BY: SMG DATED: 12/10/21

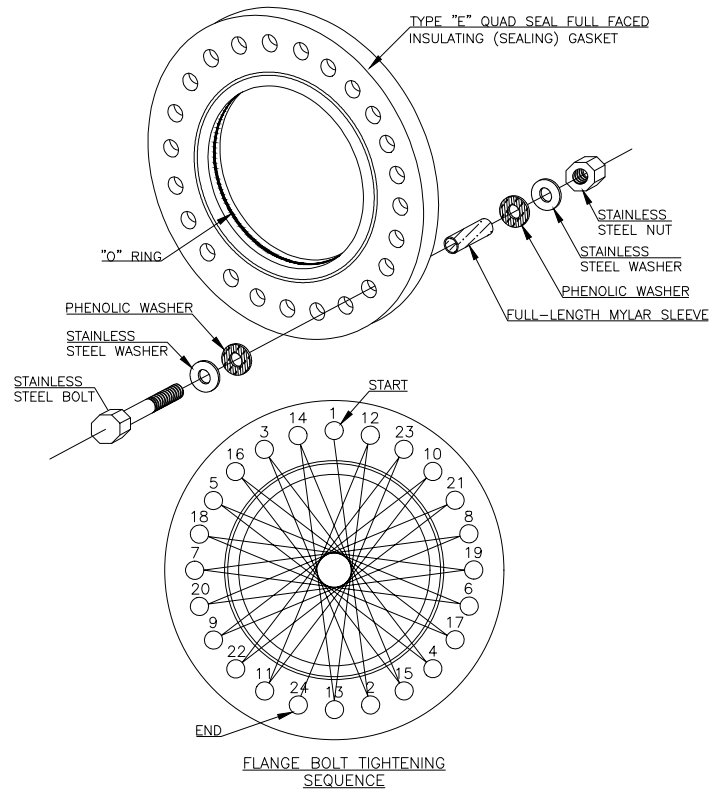
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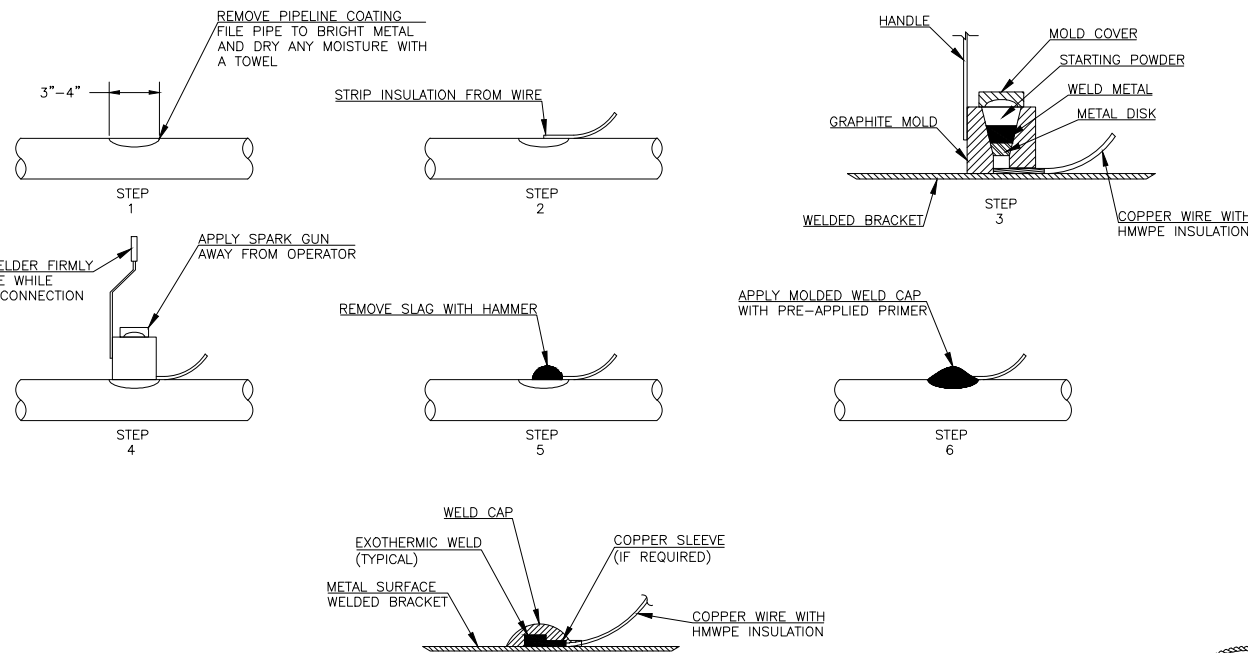
FLANGE INSULATING KIT NOTES:

- CATHODIC PROTECTION MATERIALS ARE TO BE LEFT IN MANUFACTURER'S BOXES, PACKAGES, ETC.
- 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.
- PLAIN PHENOLIC GASKETS WITHOUT O RINGS SHALL BE SANDWICHED BETWEEN TWO 1/8" STANDARD SERVICE GASKETS.
- IF REQUIRED, BOLT HOLES SHALL BE REAMED AFTER FITTING FLANGES TOGETHER, BUT PRIOR TO INSERTING MYLAR INSULATING SLEEVES.
- HARDWARE SHALL BE NON-CONDUCTIVE ANTI-SEIZE OR DIELECTRIC ANTI-SEIZE SS316 STAINLESS STEEL.
- THE BOLT TORQUE REQUIREMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- 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.
- IF APPLICABLE, 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.
- ALTHOUGH 24 BOLT HOLES ARE SHOWN, THE SAME BASIC PROCEDURE SHALL BE USED WITH FLANGES HAVING MORE OR LESS BOLT HOLES.
- THE INSULATED FLANGE SHALL BE WRAPPED WITH A 10 MIL 2" OR 4" NON-CONDUCTIVE TAPE.
- 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.
- 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.



FLANGE INSULATING KIT INSTALLATION

NOT TO SCALE 1 WD-22



EXOTHERMIC THERMITE WELD PROCEDURE

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FLANGE INSULATING KIT LOCATION TABLE			
FIK STATION	CTS REF#	FIK SIZE	DESCRIPTION
147+20		3"	Manual ARA with FIK or Isolated Corp Stop
147+41.38	2	16"	16" Lateral / New 36" Main
151+03.5	4	24"	Transition from 36" MLTC to 24" DIP
151+31	5	24"	12" Main / New 24" Main Reduced to 12" Main
157+57.92	14	24"	Transition from 24" DIP to 36" MLTC
159+16.74		12"	12" Lateral Reconnection off 36" with joint bonding
159+53.68		6"	Air Valve Assembly with joint bonding
161+13.76		6"	Air Valve Assembly with joint bonding
161+53.43		12"	12" Lateral Reconnection off 36" with joint bonding
165+82.98		6"	Air Valve Assembly with joint bonding
165+89.60		6"	Isolate 6" Lat. Reconnection at 36" Main
178+66.51		8"	8" Lateral Reconnection off 36" Main
181+38.14	20	24"	Transition from 36" MLTC to 24" DIP
181+67.33	21	24"	Isolate 24" Lateral from Existing Main
183+10.51	24	24"	Isolate 24" Lateral from Existing Main
192+69.64		12"	Isolate 12" Lateral Reconnection off 24" Main
198+99.06	27	16"	16" Interconnection off 24" Isolate at Existing 30"

Notes:

- Locations, quantities and sizes are estimated. Contractor to verify with plans and pipe laying plans.
- Isolate with FIK to any laterals that connect to existing main.
- Bond all non isolated joints including bypasses, FH, BOV, ARV and laterals.

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LAS VEGAS BLVD WATERLINE REPLACEMENT - TROPICANA AVE TO FLAMINGO RD
(PHASE E/F)
 CATHODIC PROTECTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

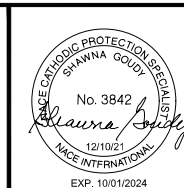


LVVWD APPROVAL

APPROVED FOR CONSTRUCTION

DIGITALLY SIGNED BY JASON GHADERI
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 136878 FIRST APPROVED DATE 4/12/22



PROJECT No: 500-897-LV DRAWN BY: NET
 DESIGNED BY: SMG CHECKED BY: SMG
 APPROVED BY: DATED: 12/10/21



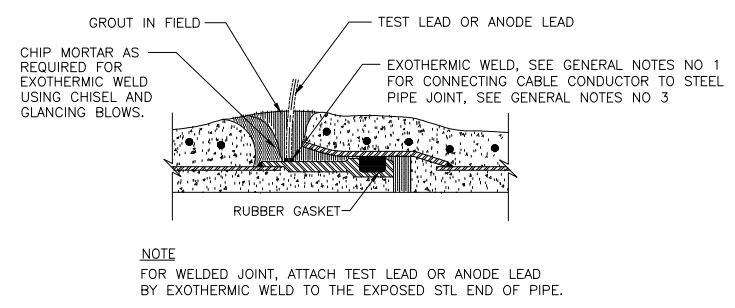
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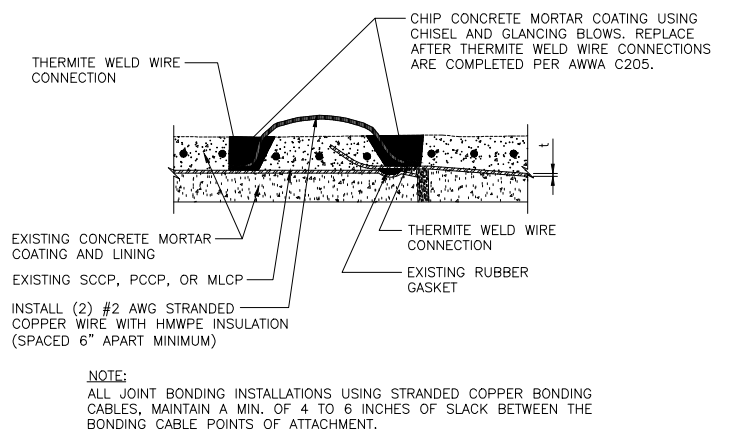
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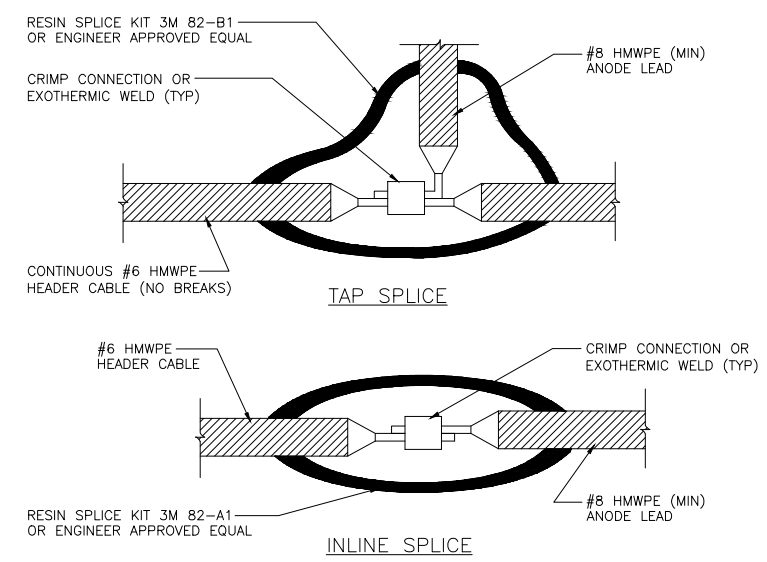
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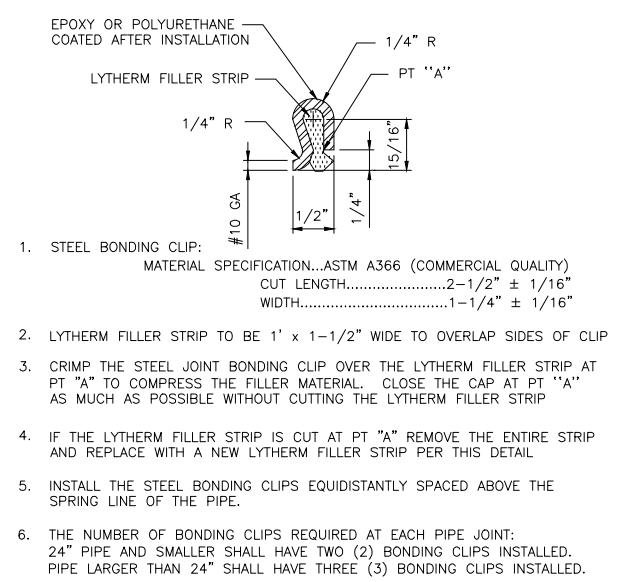
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 NOT TO SCALE PL12-5 070703 WD-23



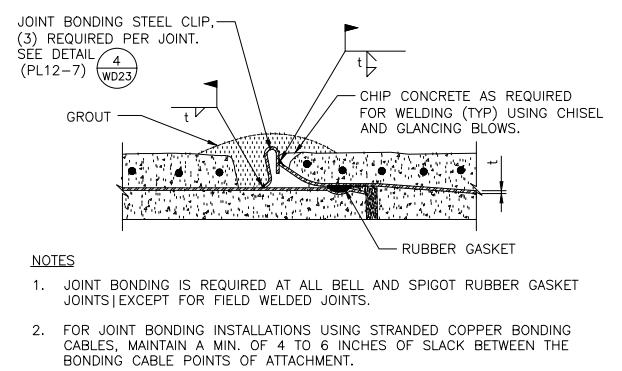
JOINT BONDING DETAIL FOR EXISTING SCCP, PCCP, AND MLCP 2
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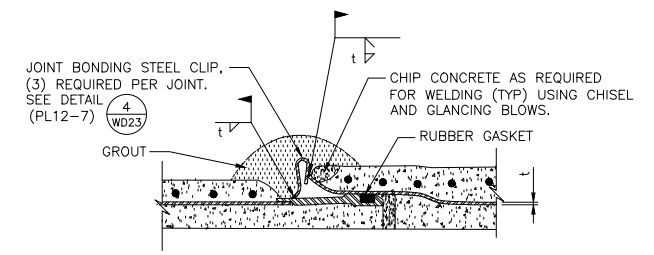
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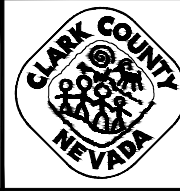
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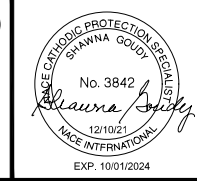
ROLLED - GROOVE JOINT BONDING DETAIL 5
 NOT TO SCALE PL12-8 070703 WD-23



CARNEGIE JOINT BONDING DETAIL 6
 NOT TO SCALE PL12-6 070703 WD-23



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FIELD BOOK

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LAS VEGAS BOULEVARD WATERLINE IMPROVEMENTS

