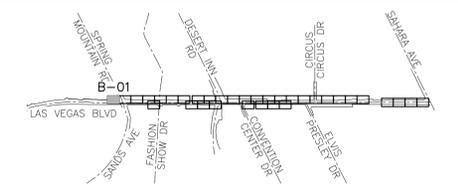
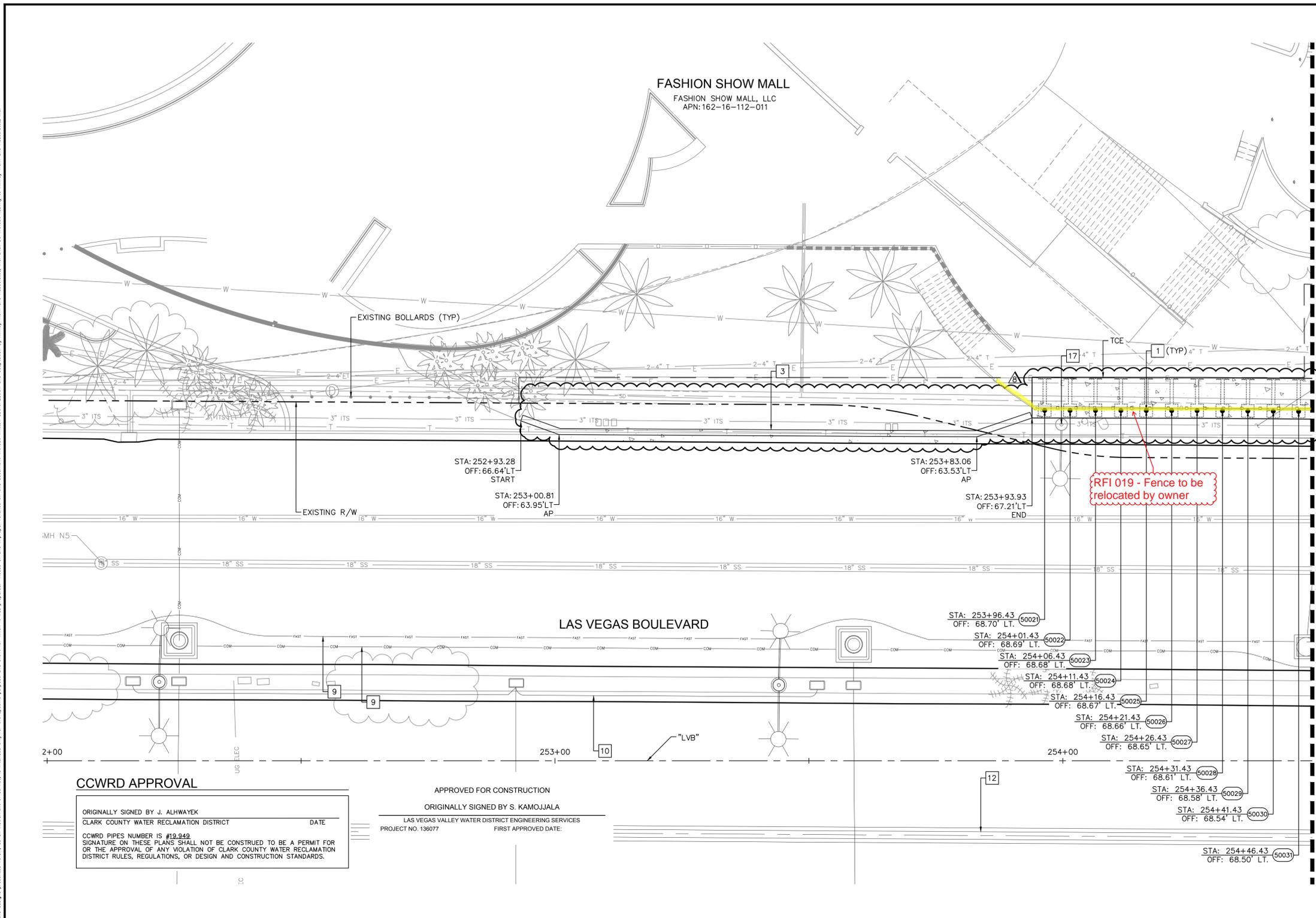


User: fernando.razz
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KEY MAP
NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 3 CONSTRUCT MODIFIED CONCRETE FB BARRIER RAIL PER DETAILS ON SHEET DT-13
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 17 EXISTING STREET LIGHT, PROTECT IN PLACE

FROM BOLLARD 50000 TO 50030
 BOLLARDS WILL REQUIRE ADDITIONAL 4" HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

GRAPHIC SCALE IN FEET
0 5 10 20

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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	REVISED PER REVISION NO. 8	08/13/2020
APPROVED		

APPROVED FOR CONSTRUCTION
 ORIGINALLY SIGNED BY S. KAMOJJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 138077 FIRST APPROVED DATE:

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

ENGINEER-SEAL
 SHANNON R. AHARIZ
 Exp. 12/31/20
 CIVIL
 No. 021219

DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 08-13-2020

Kimley»Horn

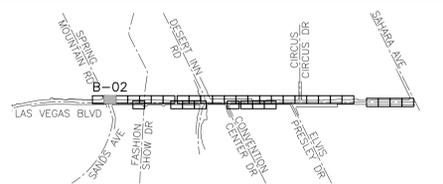
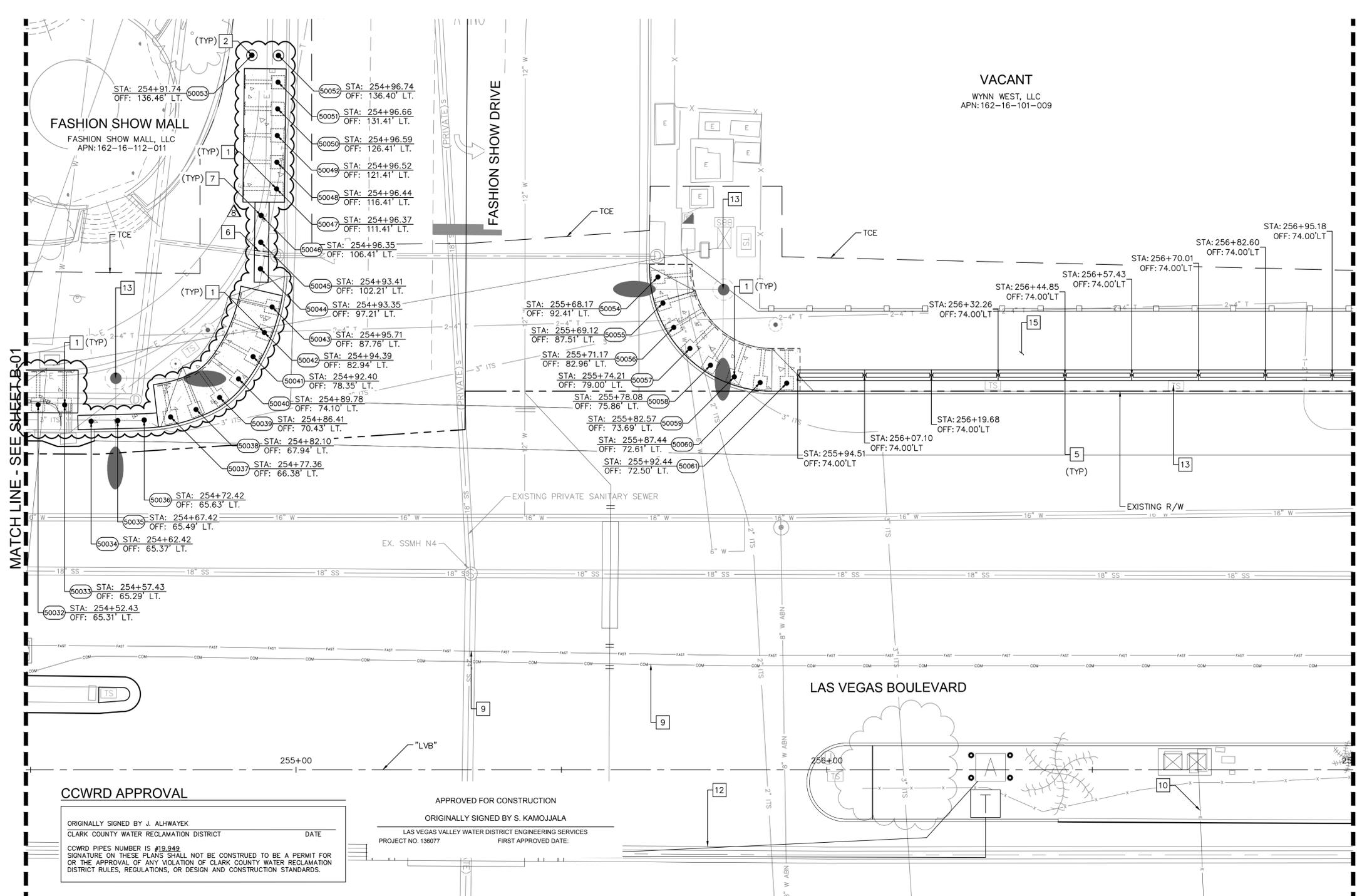
6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET NO
HORIZ: 1" = 10'	B-01
VERT: N/A	SHEET 56 OF 345
FIELD BOOK NONE	L-2210

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID No.: 605203-19

ISSUED FOR CONSTRUCTION

User: fernando.razz
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KEY MAP
NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
- 5 INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER DETAIL J ON SHEET DT-07
- 6 INSTALL SLEEVE FOR EXISTING UTILITY CROSSING (INCIDENTAL TO BOLLARD INSTALLATION)
- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

BOLLARD 50031
BOLLARD WILL REQUIRE ADDITIONAL 4" HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

FROM BOLLARD 50043 TO 50047
BOLLARDS ARE NOT 5 FEET ON CENTER, SEE STATION AND OFFSET FOR LOCATION

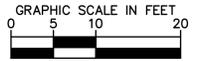
EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
- CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 - CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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DESIGNED BY: BAC	SCALE	SHEET No.
DRAWN BY: BAC	HORIZ: 1" = 10'	B-02
CHECKED BY: SRA	VERT: N/A	SHEET 57 OF 345
DATE: 08-13-2020	FIELD BOOK: NONE	L-2210

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
CLARK COUNTY WATER RECLAMATION DISTRICT
DATE

CCWRD PIPES NUMBER IS #19,949
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.

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY S. KAMOJJALA
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 138077
FIRST APPROVED DATE:



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 08-13-2020

Kimley & Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 882-3600

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	REVISED PER REVISION NO. 3	08/13/2020

APPROVED

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID No.: 605203-19

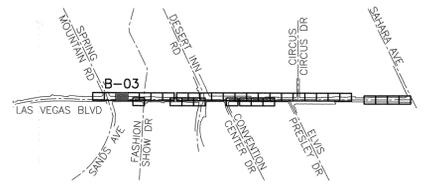
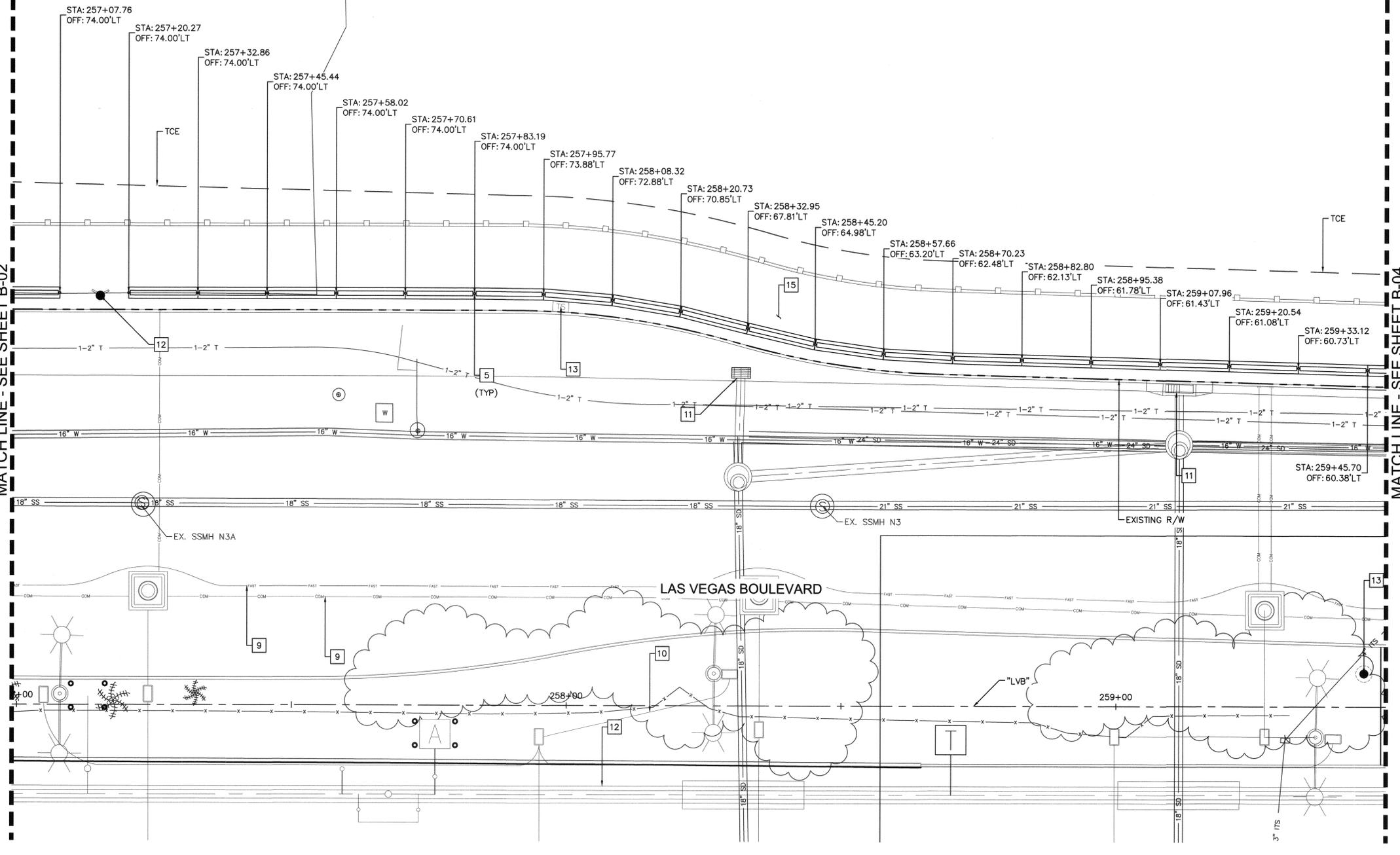
ISSUED FOR CONSTRUCTION

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES NUMBER IS #19.848
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APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12-16-19

VACANT
 WYNN WEST, LLC
 APN: 162-16-101-009



KEY MAP
 NTS

BOLLARD NOTES:

- 5 INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER DETAIL J ON SHEET DT-07
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 11 PROPOSED STORM DRAIN STRUCTURE, SEE SD SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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NO.	REVISIONS	DATE
10	ISSUED FOR CONSTRUCTION	10/23/2019
11	REVISED PER REVISION NO. 2	11/15/2019



**LAS VEGAS BOULEVARD
 ROADWAY IMPROVEMENTS**
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

Kimley»Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

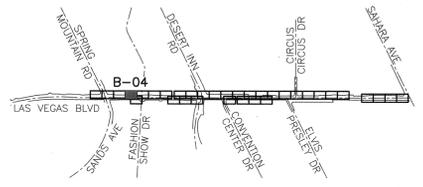
SCALE	SHEET No
HORIZ: 1" = 10'	B-03
VERT: N/A	SHEET 58 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.raz
 Path: K:\LAV_Public\Drawings\092061_CC\021-LVB_Roadway-Signals\CAD\Drawings\092061-021-BOL-01-06.dwg /
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BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 5 INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER DETAIL J ON SHEET DT-07
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

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0 5 10 20

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 SIGNATURE: [Signature]
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APPROVED FOR CONSTRUCTION

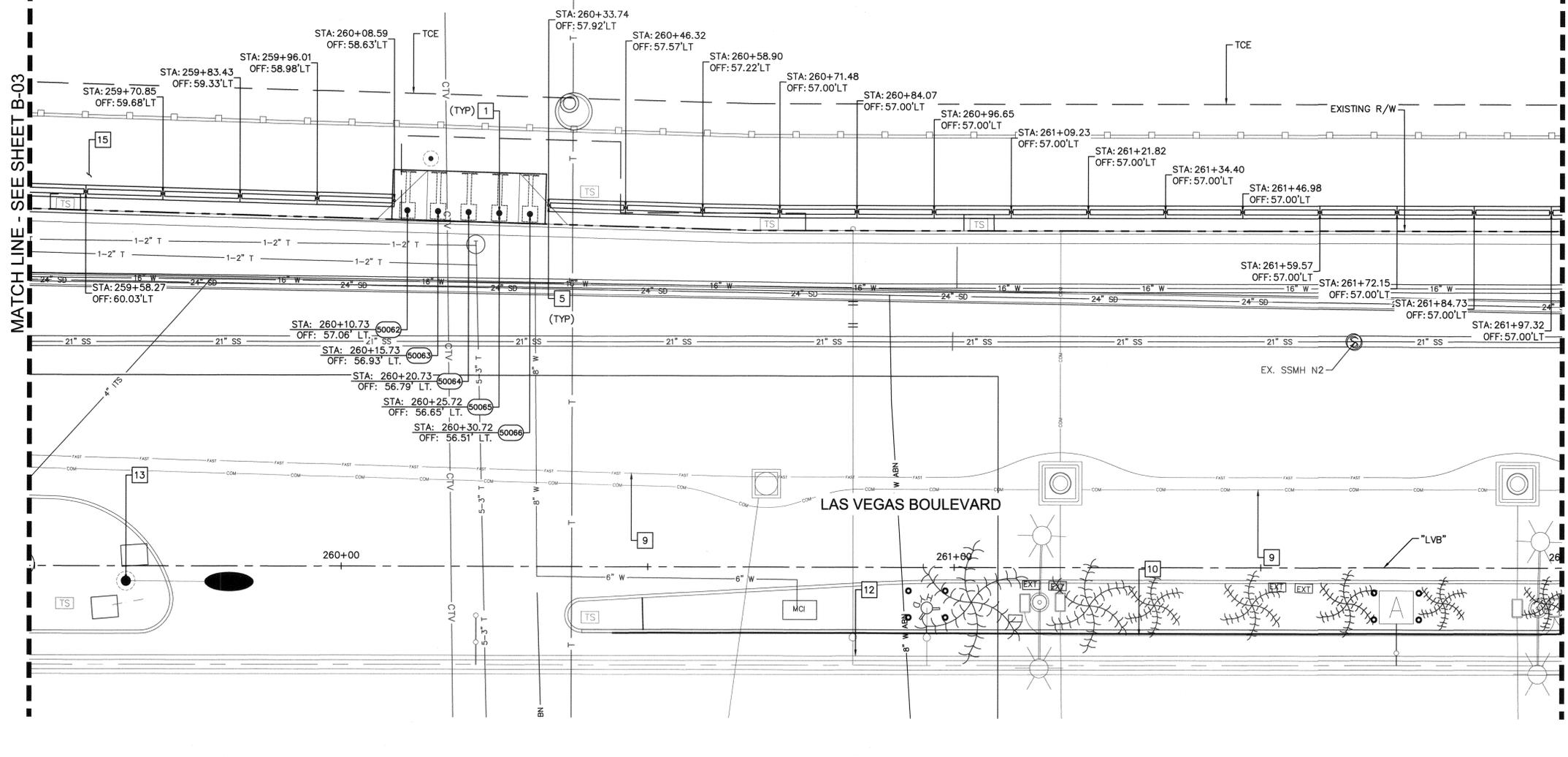
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19

VACANT

WYNN WEST, LLC
 APN: 162-16-101-009

MATCH LINE - SEE SHEET B-03

MATCH LINE - SEE SHEET B-05



LAS VEGAS BOULEVARD

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

Kimley Horn
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 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	HORIZ: 1" = 10'	SHEET No	B-04
	VERT: N/A		
FIELD BOOK	NONE		
			SHEET 59 OF 345
			L-2210

ISSUED FOR CONSTRUCTION

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BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

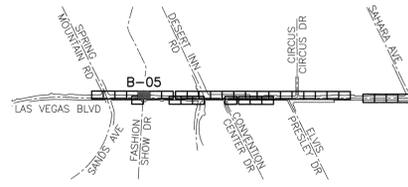
VACANT
WYNN WEST, LLC
APN:162-16-101-009

VACANT
WYNN WEST, LLC
APN:162-16-101-011

CCWRD APPROVAL

[Signature]
CLARK COUNTY WATER RECLAMATION DISTRICT
DATE: 11.25.19
CCWRD PIPES NUMBER IS #19,949
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[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19



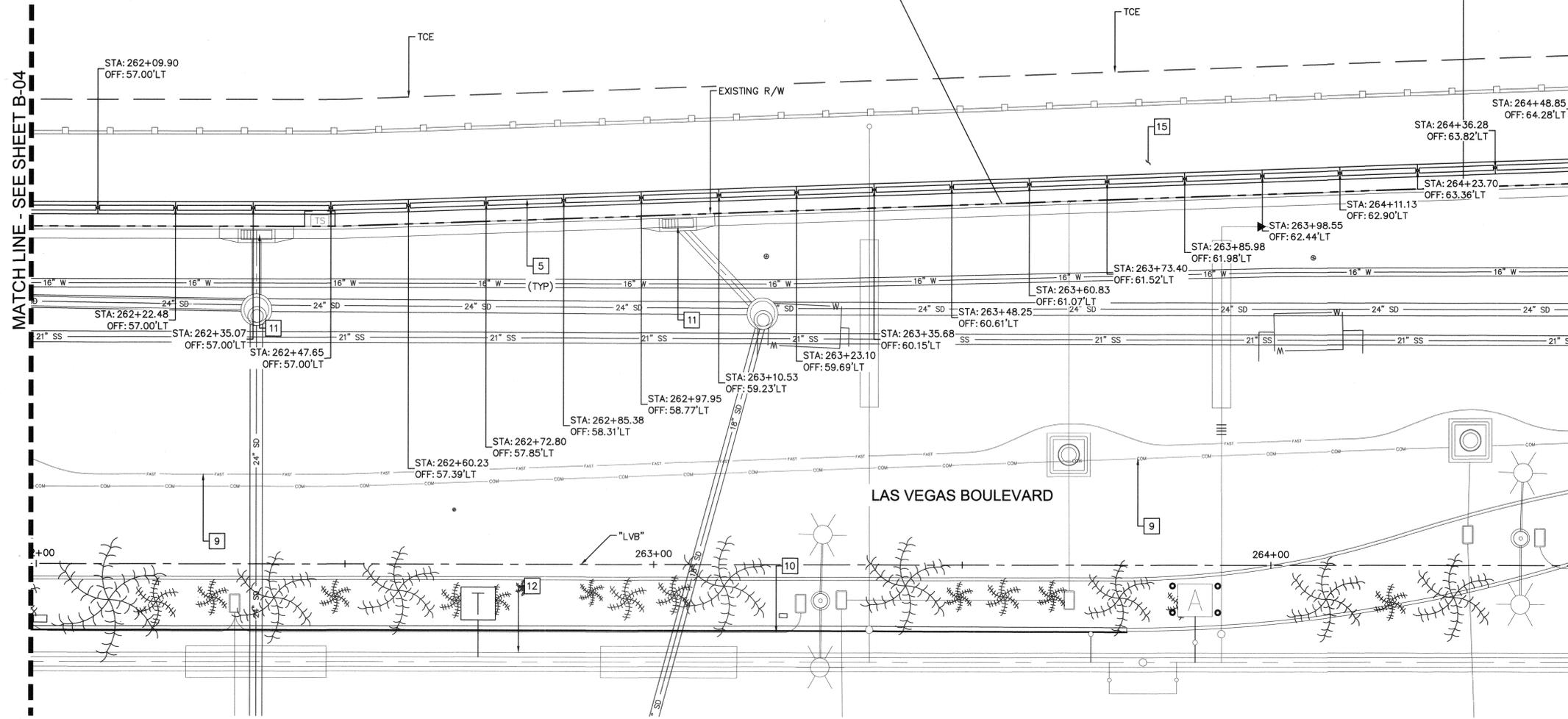
KEY MAP
NTS

BOLLARD NOTES:

- 5 INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER DETAIL J ON SHEET DT-07
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 11 PROPOSED STORM DRAIN STRUCTURE, SEE SD SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

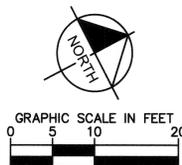
MATCH LINE - SEE SHEET B-04

MATCH LINE - SEE SHEET B-06



NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
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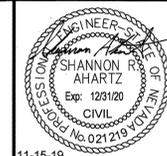
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1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 892-3000

SCALE	SHEET No
HORIZ: 1" = 10'	B-05
VERT: N/A	SHEET 60 OF 345
FIELD BOOK: NONE	L-2210

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User: fernando.rosz
Path: K:\UAV_Public\Trns\092019\CC_021-LVB_Roadway-Signal\CAD\Plansheets\092019\021-BOL-01-06.dwg /
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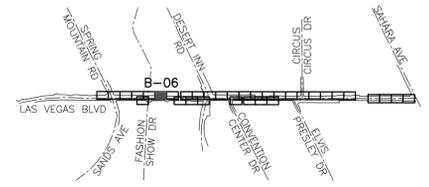
CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES NUMBER IS #19,949
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19

VACANT

TISHMAR, LLC
 APN: 162-09-403-004



KEY MAP
 NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 5 INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER DETAIL J ON SHEET DT-07
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

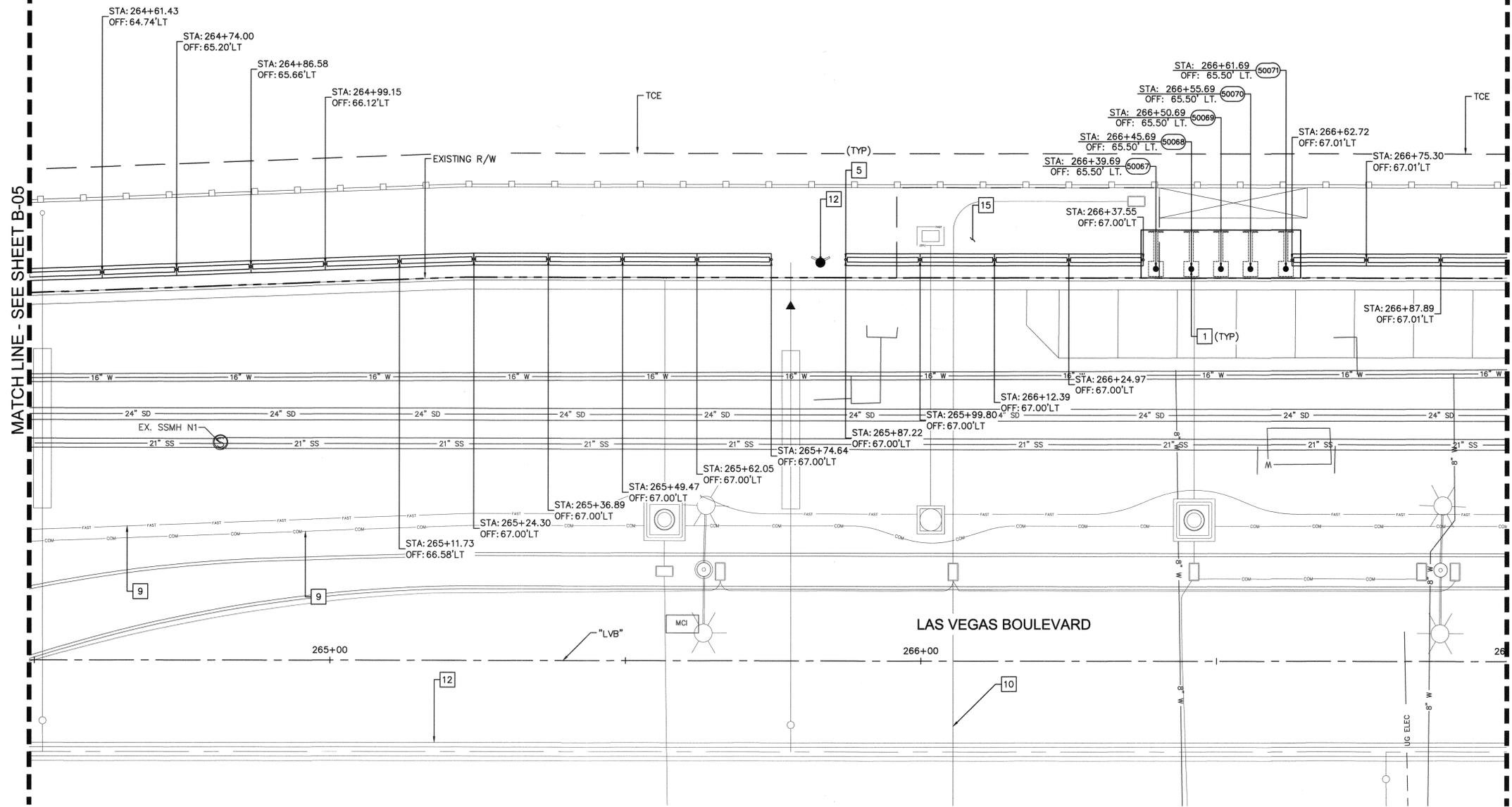
NOTE:

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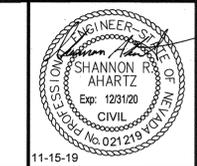


User: fernando.raz; Path: K:\LAV_Public\Drawings\092019\021-B01-LVB_Roadway-Signal\CAD\Drawings\092019\021-B01-LVB.dwg / This document, together with the computer and design presented herein, is intended only for the specific purpose and client for which it was prepared. Release and improper reliance on this document without written authorization and adaptation by Tishmar-Horn and Associates, Inc. shall be without liability to Tishmar-Horn and Associates, Inc.

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

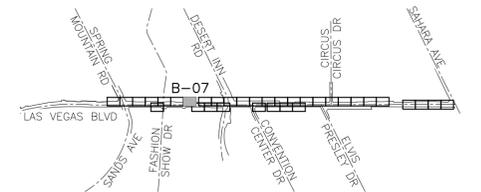
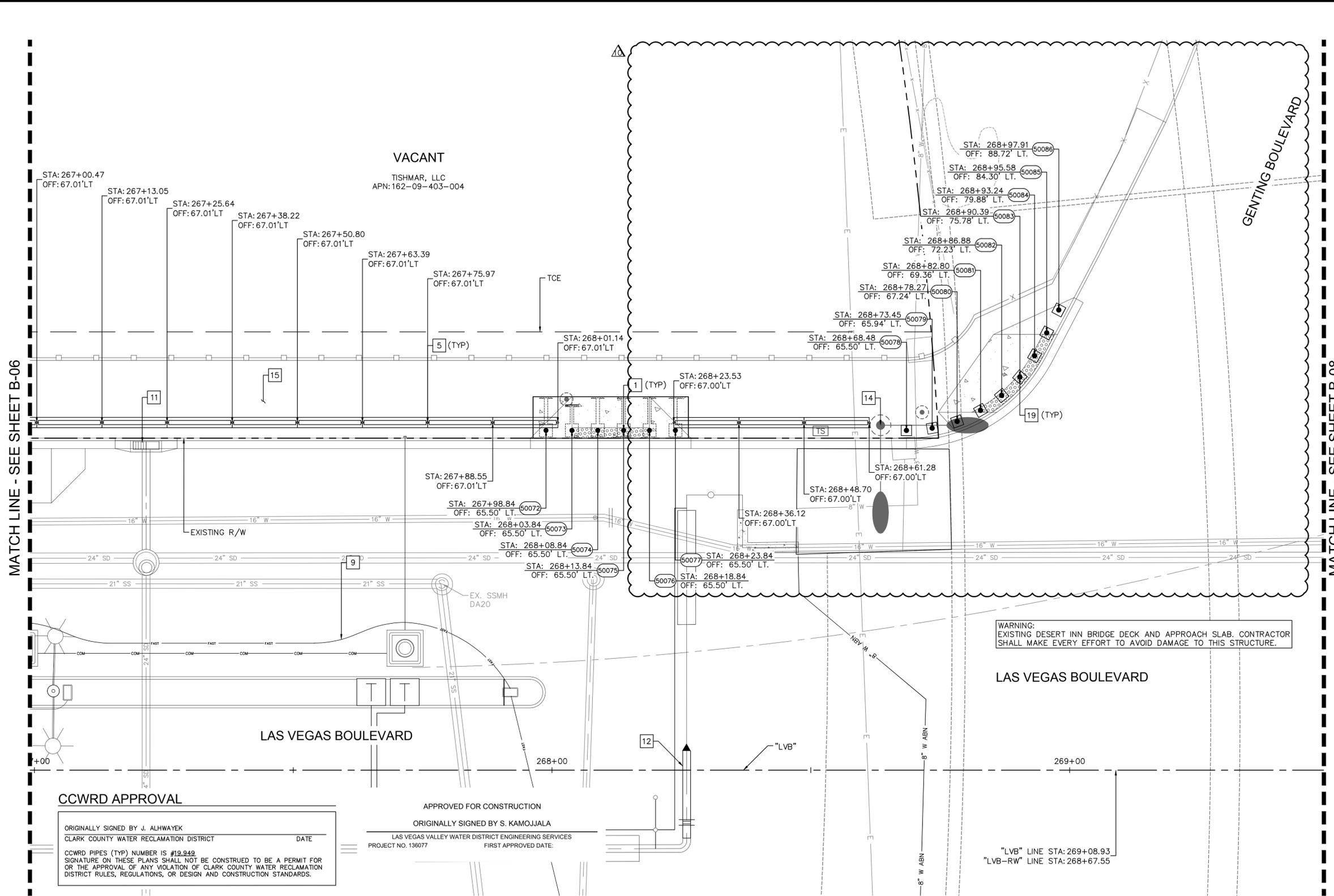
Kimley»Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-06
VERT: N/A	SHEET 61 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

User: Daniel Wolf
 Path: K:\LAV_Public\Trans\092061-CC\021-LVB_Roadway-Signal\CAD\Plansheets\092061021-BOL-07-11.dwg
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KEY MAP
 NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 5 INSTALL PORTABLE PRECAST CONCRETE BARRIER RAIL PER DETAIL J ON SHEET DT-07
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 11 PROPOSED STORM DRAIN STRUCTURE, SEE SD SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 14 REFER TO RESORTS WORLD PLANS
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES
 - 19 INSTALL T-BOLLARDS (OWNER SUPPLIED) PER DETAIL T ON SHEET DT-14

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
- CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.
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CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT

DATE

COWRD PIPES (TYP) NUMBER IS #19,949
 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.

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY S. KAMOJAJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 138077

FIRST APPROVED DATE:

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	LVB-GENTING INTERSECTION REVISION	04/20/2021
APPROVED		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 04-20-2021

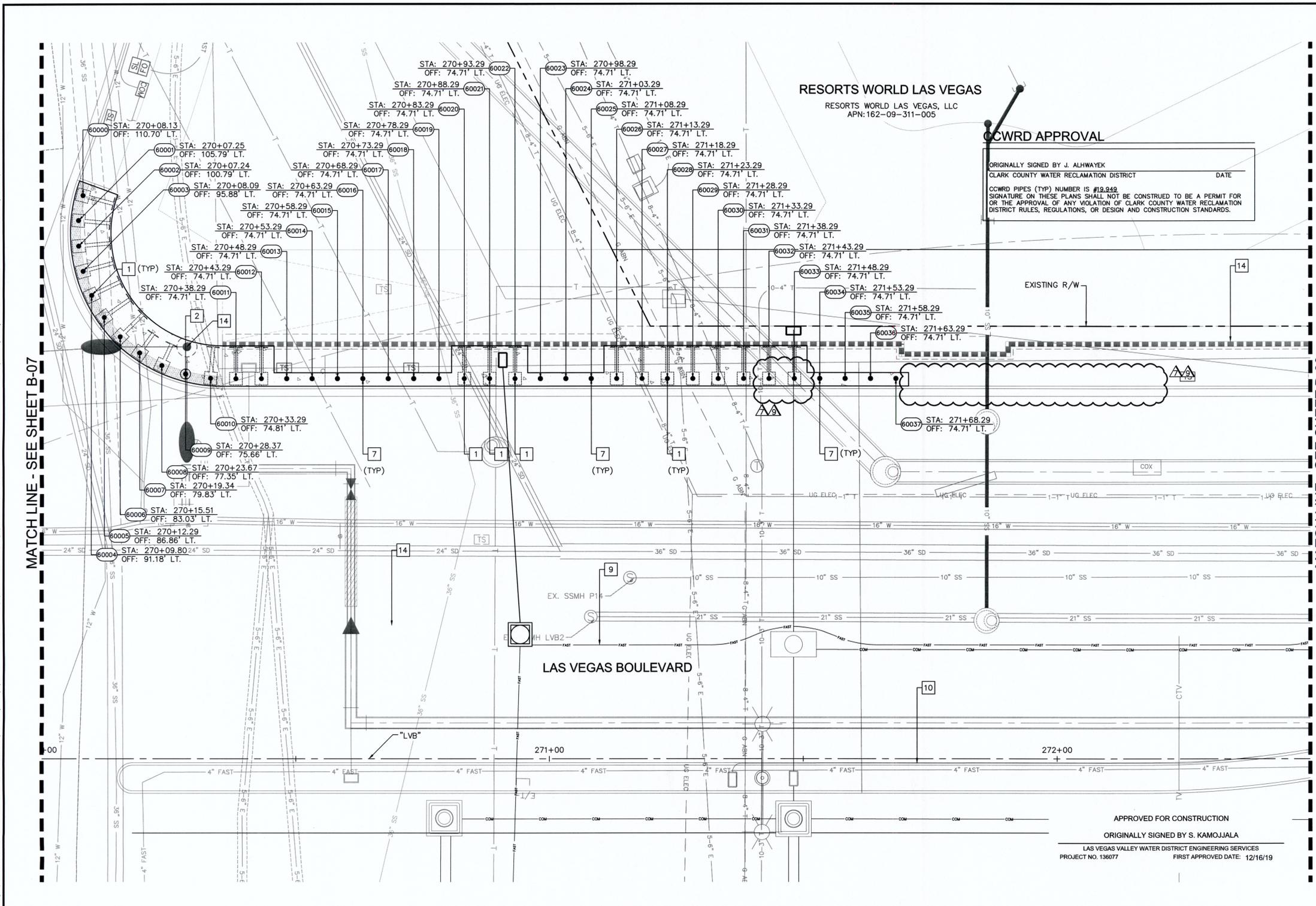
Kimley»Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE		SHEET No
HORIZ:	1" = 10'	B-07
VERT:	N/A	SHEET 62 OF 345
FIELD BOOK	NONE	L-2210

ISSUED FOR CONSTRUCTION

BID NO.: 605203-19

User: fernando.razz
 Path: K:\LAV_Public\Trans\092061\CC\021-LVB_Roadway-Signal\CAD\Drawings\092061\021-BOL-07-11.dwg /
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MATCH LINE - SEE SHEET B-07

MATCH LINE - SEE SHEET B-09

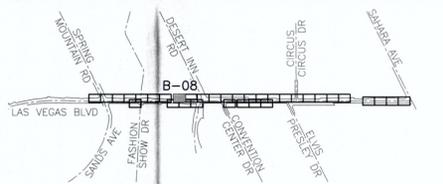
RESORTS WORLD LAS VEGAS

RESORTS WORLD LAS VEGAS, LLC
 APN: 162-09-311-005

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE _____

CCWRD PIPES (TYP) NUMBER IS #19,949
 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.



KEY MAP
 NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 14 REFER TO RESORTS WORLD PLANS

FROM BOLLARD 60011 TO 60037

BOLLARDS WILL REQUIRE ADDITIONAL 4" HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

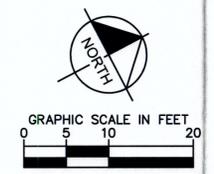
EXPANSION JOINT

INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

NOTE:

- 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.
- 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

APPROVED FOR CONSTRUCTION
 ORIGINALLY SIGNED BY S. KAMOJAJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19



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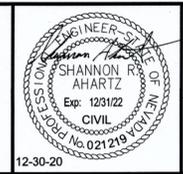
UnderGround
 Call Before You Dig
 1-702-492-5300

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWLVL RELATED IMPROVEMENT REV	09/04/2020
4	RWLVL RELATED IMPROVEMENT REV <i>www. [signature] 01/19/2021</i>	12/30/2020

APPROVED



**LAS VEGAS BOULEVARD
 ROADWAY IMPROVEMENTS**
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 12-30-2020

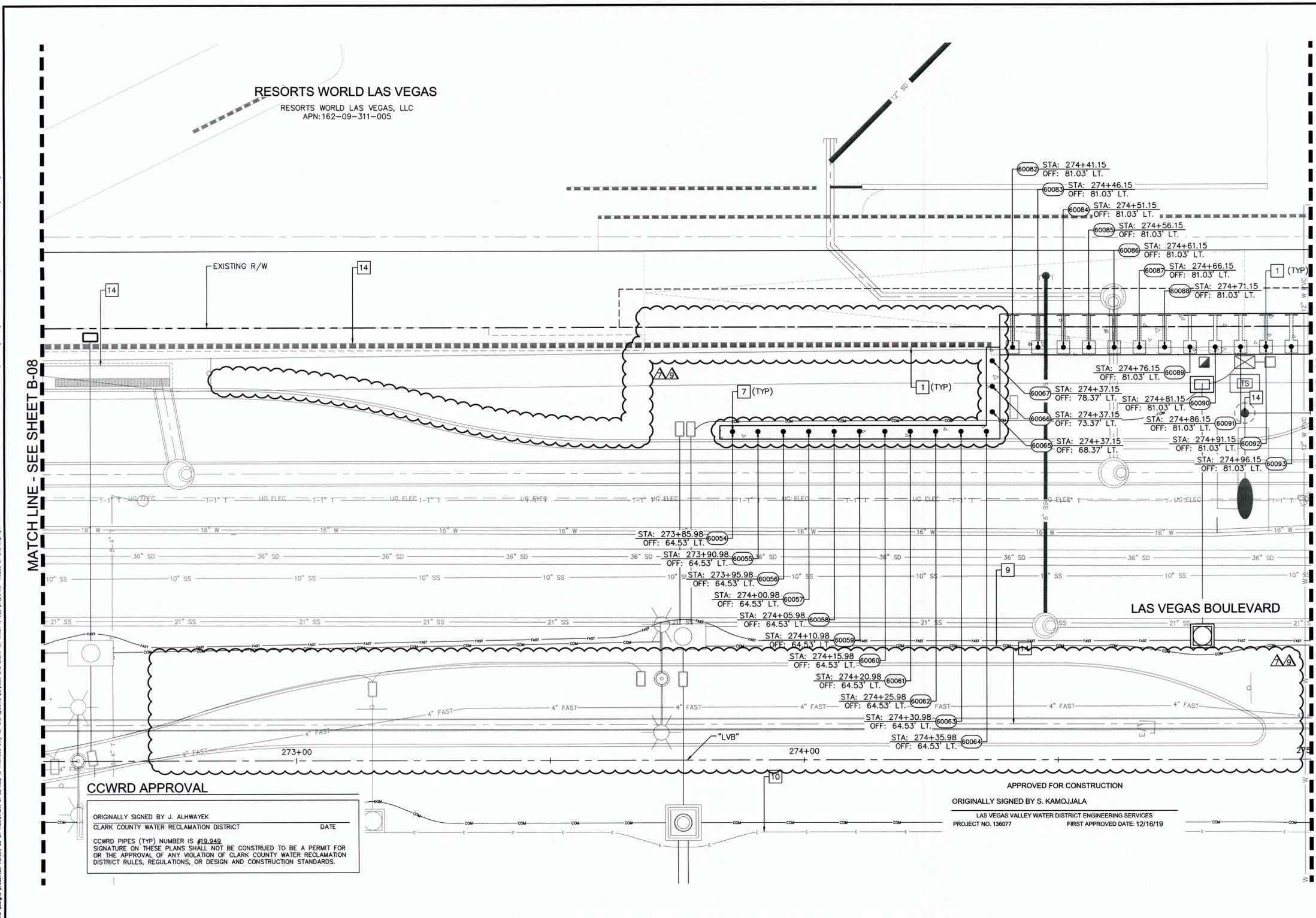
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-08
VERT: N/A	SHEET 63 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 BID No.: 605203-19

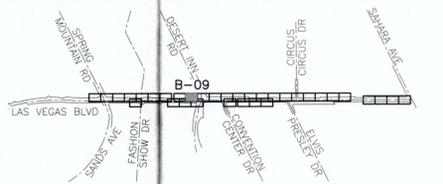
User: fernando.razz
 Path: K:\LAV_Public\Drawings\0920201\021-01-LVB_Roadway-Signals\0920201-021-BOL-07-11.dwg /
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MATCH LINE - SEE SHEET B-08

MATCH LINE - SEE SHEET B-10

RESORTS WORLD LAS VEGAS
 RESORTS WORLD LAS VEGAS, LLC
 APN: 162-09-311-005



KEY MAP
 NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 14 REFER TO RESORTS WORLD PLANS

REFER TO RESORTS WORLD PLANS
 (SHEET HC-05) FOR BOLLARD EASEMENTS

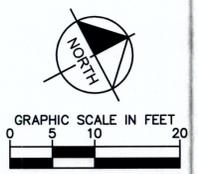
FROM BOLLARD 60054 TO 60067
 BOLLARDS WILL REQUIRE ADDITIONAL HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
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.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

CCWRD APPROVAL
 ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE _____
 CCWRD PIPES (TYP) NUMBER IS #19.848
 SIGNATURE ON THESE PLANS SHALL NOT BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION
 ORIGINALLY SIGNED BY S. KAMOJIALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19



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 1-702-432-5300

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWL RELATED IMPROVEMENT REV	09/04/2020
4	RWL RELATED IMPROVEMENT REV	01/19/2021
APPROVED		



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 12-30-2020

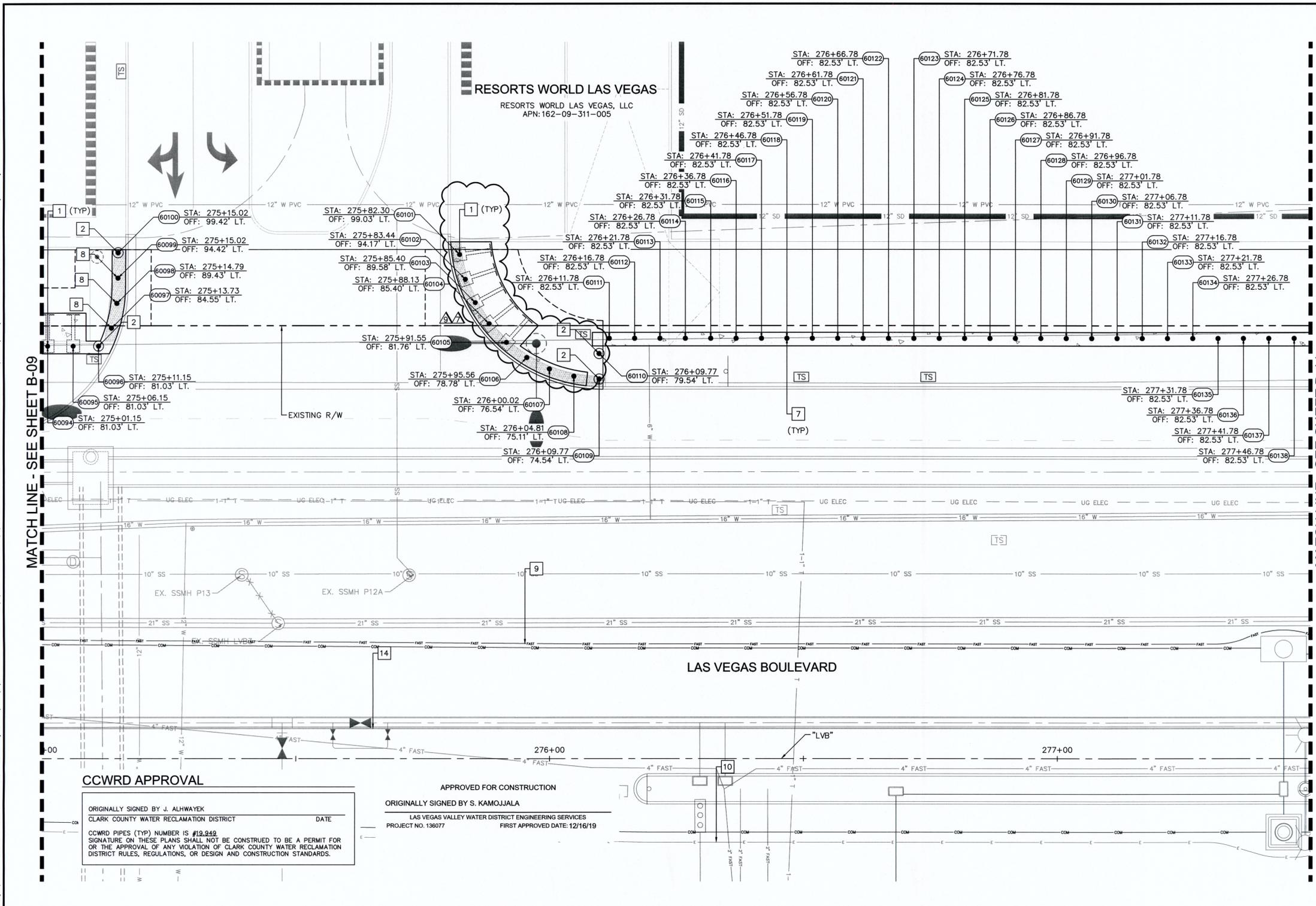
Kimley Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-3600

SCALE		SHEET NO.
HORIZ:	1" = 10'	B-09
VERT:	N/A	SHEET 64 OF 345
FIELD BOOK:	NONE	L-2210

ISSUED FOR CONSTRUCTION

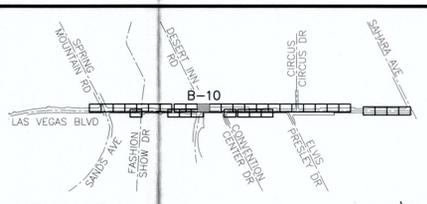
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No.: 605203-19

User: fernando.roz; Path: K:\LAV_Public\Drawings\092061021-LVB_Roadway-Signal\CAD\Drawings\092061021-BOL-07-11.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and adoption by the client is prohibited.



MATCH LINE - SEE SHEET B-09

MATCH LINE - SEE SHEET B-11



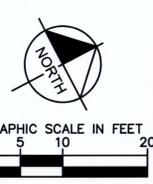
KEY MAP
NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
 - 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
 - 8 INSTALL REMOVABLE BOLLARD PER DETAIL L ON SHEET DT-08
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 14 REFER TO RESORTS WORLD PLANS

REFER TO RESORTS WORLD PLANS
(SHEET HC-05) FOR BOLLARD EASEMENTS

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
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 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF MAXIMUM AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.



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CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYK
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE _____

CCWRD PIPES (TYP) NUMBER IS #19.949
 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.

APPROVED FOR CONSTRUCTION

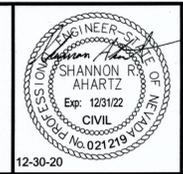
ORIGINALLY SIGNED BY S. KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWLVL RELATED IMPROVEMENT REV	09/04/2020
4	RWLVL RELATED IMPROVEMENT REV <i>llvv</i>	01/19/2021
APPROVED _____		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 12-30-2020

Kimley»Horn

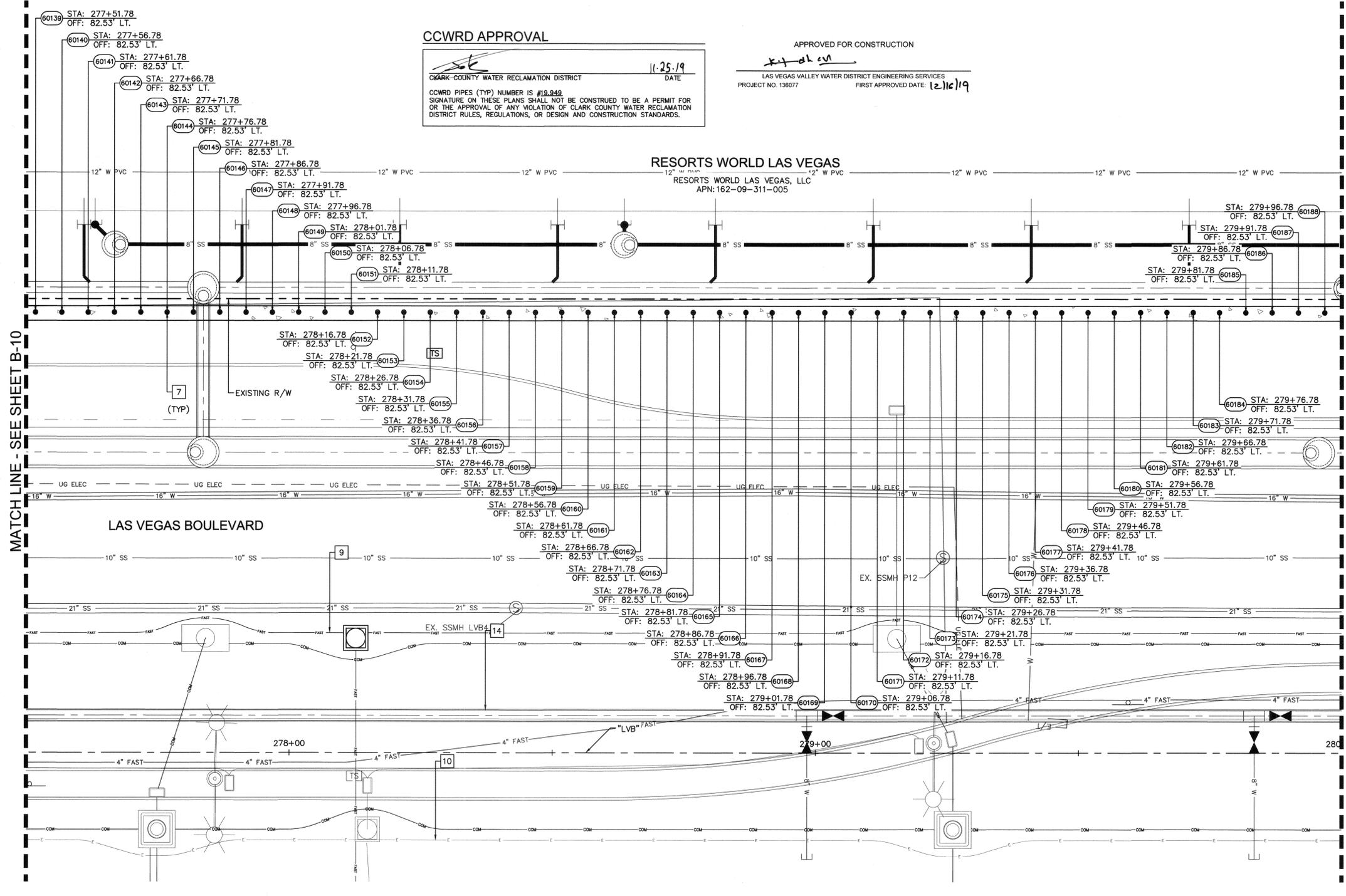
6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-3600

SCALE		SHEET No.
HORIZ:	1" = 10'	B-10
VERT:	N/A	
FIELD BOOK NONE		SHEET 65 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID No.: 605203-19

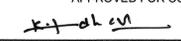
User: fernandoreaz
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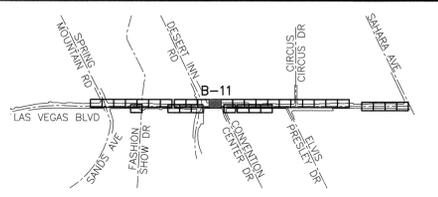
CCWRD APPROVAL


 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES (TYP) NUMBER IS #19,849
 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.

APPROVED FOR CONSTRUCTION


 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO: 136077 FIRST APPROVED DATE: 12/16/19

RESORTS WORLD LAS VEGAS
 RESORTS WORLD LAS VEGAS, LLC
 APN:162-09-311-005



KEY MAP
NTS

BOLLARD NOTES:

- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 14 REFER TO RESORTS WORLD PLANS

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.


 GRAPHIC SCALE IN FEET
 0 5 10 20


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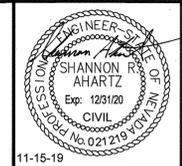
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 Call Before You Dig
1-702-432-5300
1-800-336-9193

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



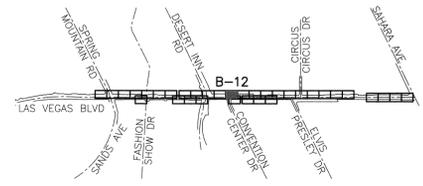
DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-11
VERT: N/A	SHEET 66 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

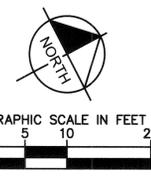
BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 14 REFER TO RESORTS WORLD PLANS

FROM BOLLARD 60202 TO 60211
BOLLARDS ARE NOT 5 FEET ON CENTER, SEE STATION AND OFFSET FOR LOCATION

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

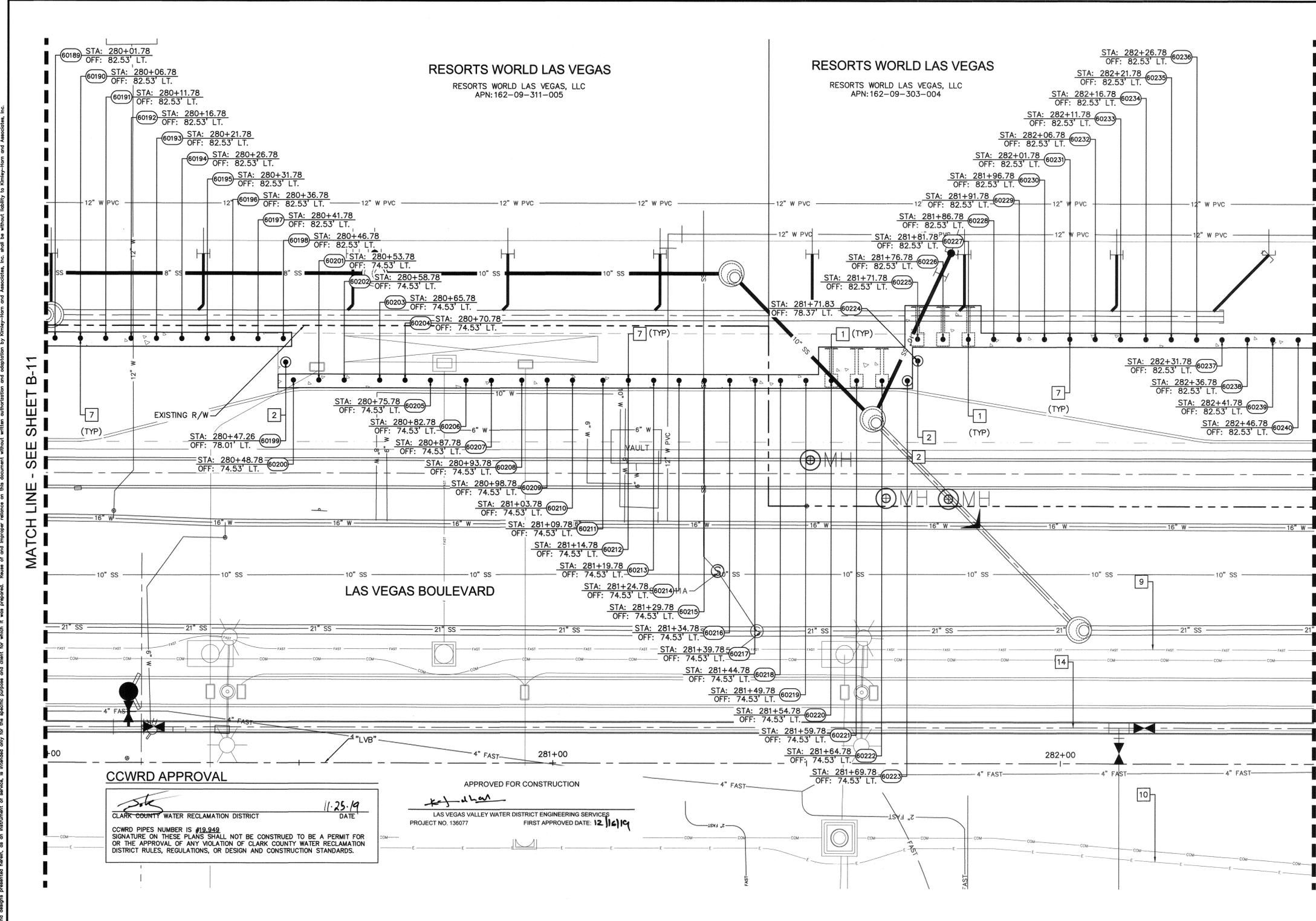
- NOTE:**
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CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
DATE: 11-25-19

CCWRD PIPES NUMBER IS #19,349
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.

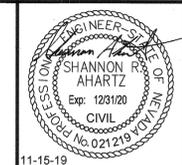
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077
FIRST APPROVED DATE: 12/16/19

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 862-3600

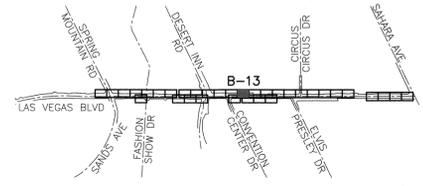
SCALE	SHEET No
HORIZ: 1" = 10'	B-12
VERT: N/A	SHEET 67 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.roz@kimley-horn.com
Path: K:\NAV_Public\Roadway-Signals\CAD\Plansheets\092019\021-BOL-12-16.dwg /
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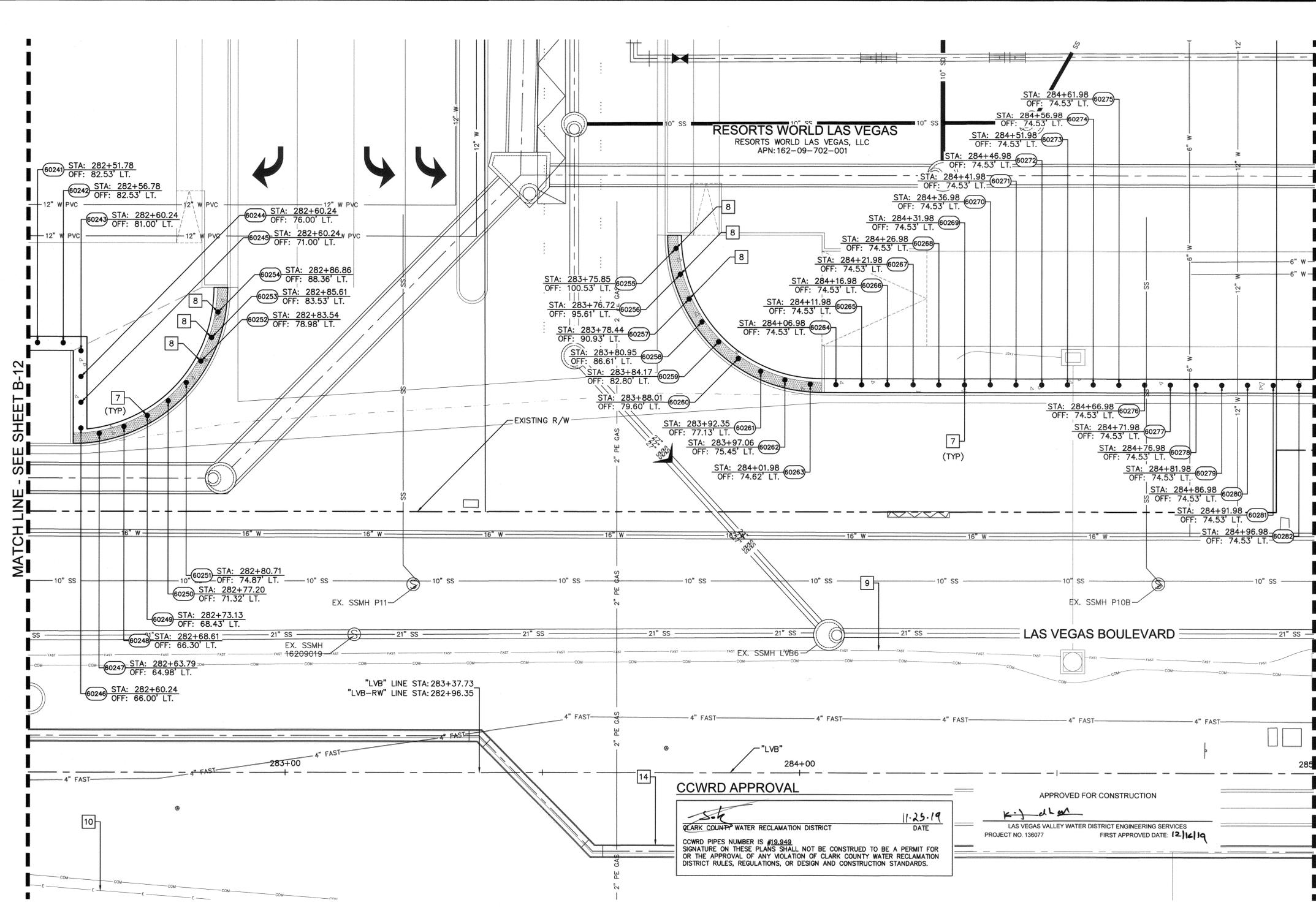
BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

- BOLLARD NOTES:**
- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
 - 8 INSTALL REMOVABLE BOLLARD PER DETAIL L ON SHEET DT-08
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 14 REFER TO RESORTS WORLD PLANS



MATCH LINE - SEE SHEET B-12

MATCH LINE - SEE SHEET B-14

FROM BOLLARD 60264 TO 60282
BOLLARDS WILL REQUIRE ADDITIONAL 4" HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
- CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADIUS.
 - CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

CCWRD APPROVAL

APPROVED FOR CONSTRUCTION

DATE: 11-25-19

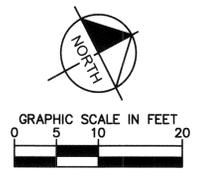
PROJECT NO. 136077

FIRST APPROVED DATE: 12/16/19

CLARK COUNTY WATER RECLAMATION DISTRICT

CLARK PIPES NUMBER IS #19,949

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.



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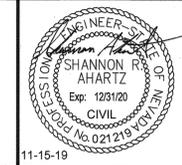
UnderGround
Call Before You Dig
1-702-432-5300

User: fernando.roz@clarkcountynevada.gov
Path: K:\LAV_Public\Trans\09202019\021-LVB_Roadway-Signal\CAD\Plansheets\09202019\BOL-12-16.dwg /
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

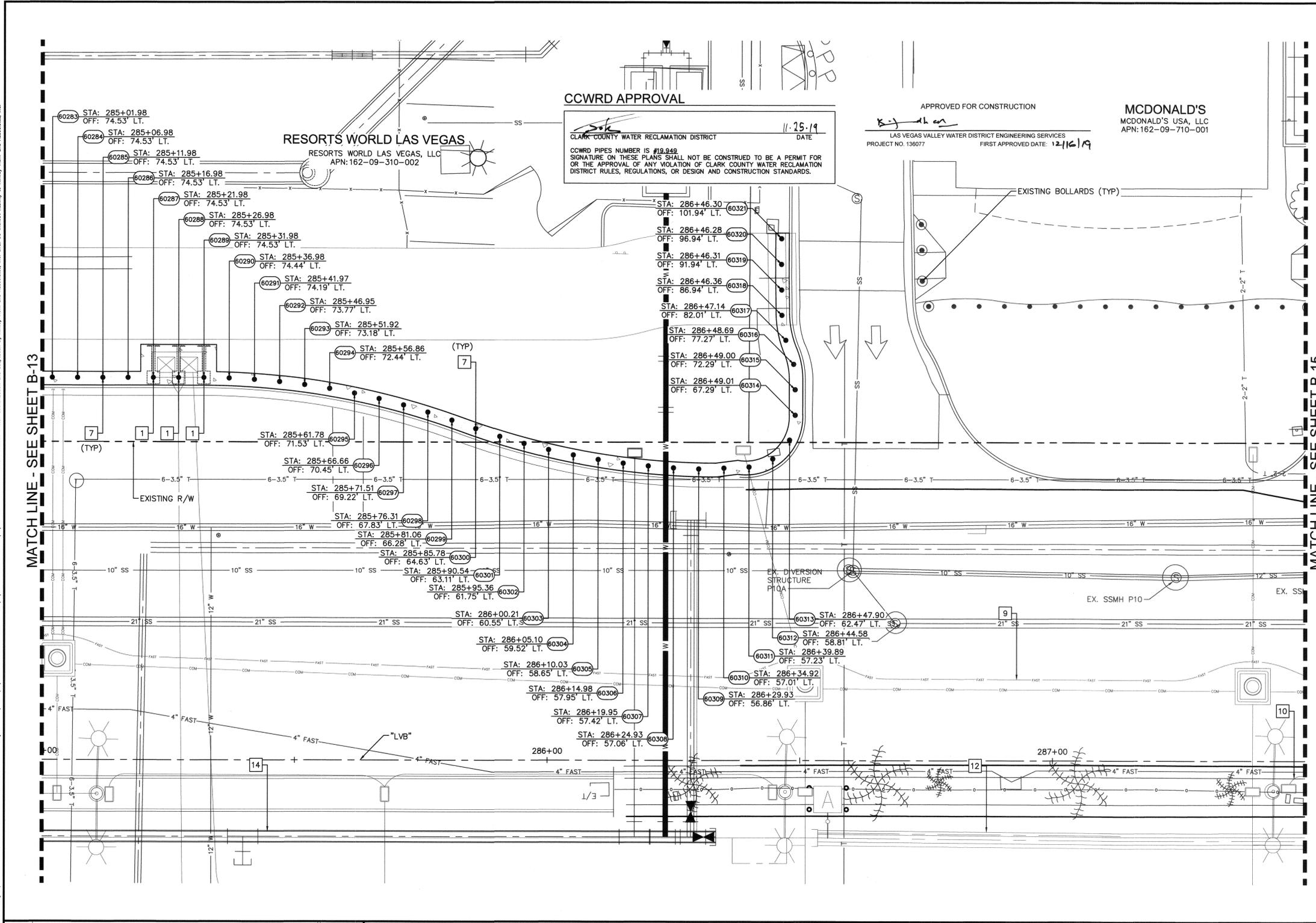
Kimley»Horn
8871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-13
VERT: N/A	SHEET 68 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

User: fernando.roez
 Path: K:\LAV_Public\Trans\0922061\CC\021-LVB_Roadway-Signal\CAO\Drawings\0922061021-BOL-12-16.dwg /
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MATCH LINE - SEE SHEET B-13

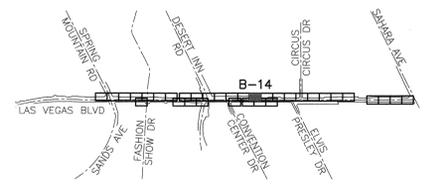
MATCH LINE - SEE SHEET B-15

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11.25.19
 SIGNATURE: [Signature]
 CCWRD PIPES NUMBER IS #19.949
 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.

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19

MCDONALD'S
 MCDONALD'S USA, LLC
 APN: 162-09-710-001



KEY MAP
NTS

BOLLARD NOTES:

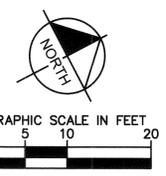
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 14 REFER TO RESORTS WORLD PLANS

FROM BOLLARD 60283 TO 60317
 BOLLARDS WILL REQUIRE ADDITIONAL 4" HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

NOTE:

- 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.
- 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.



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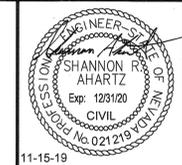
Call before you UnderGround

1-702-432-5300

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



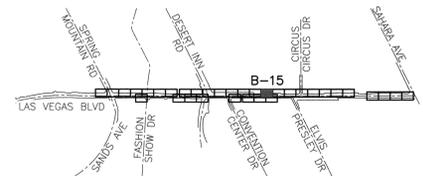
DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 882-3600

SCALE	SHEET No.
HORIZ: 1" = 10'	B-14
VERT: N/A	SHEET 69 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

FROM BOLLARD 50087 TO 50125
BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36".
SEE DETAIL C.1 ON SHEET DT-03.

FROM BOLLARD 50095 TO 50099
BOLLARDS ARE NOT 5 FEET ON CENTER. SEE STATION AND OFFSET FOR LOCATION.

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

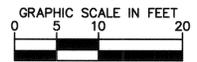
- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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UnderGround
Call Before You Dig
1-702-432-5300

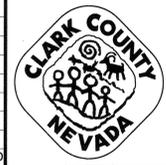


DESIGNED BY: BAC	SCALE	SHEET No
DRAWN BY: BAC	HORIZ: 1" = 10'	B-15
CHECKED BY: SRA	VERT: N/A	SHEET 70 OF 345
DATE: 11-15-2019	FIELD BOOK NONE	L-2210

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019

APPROVED

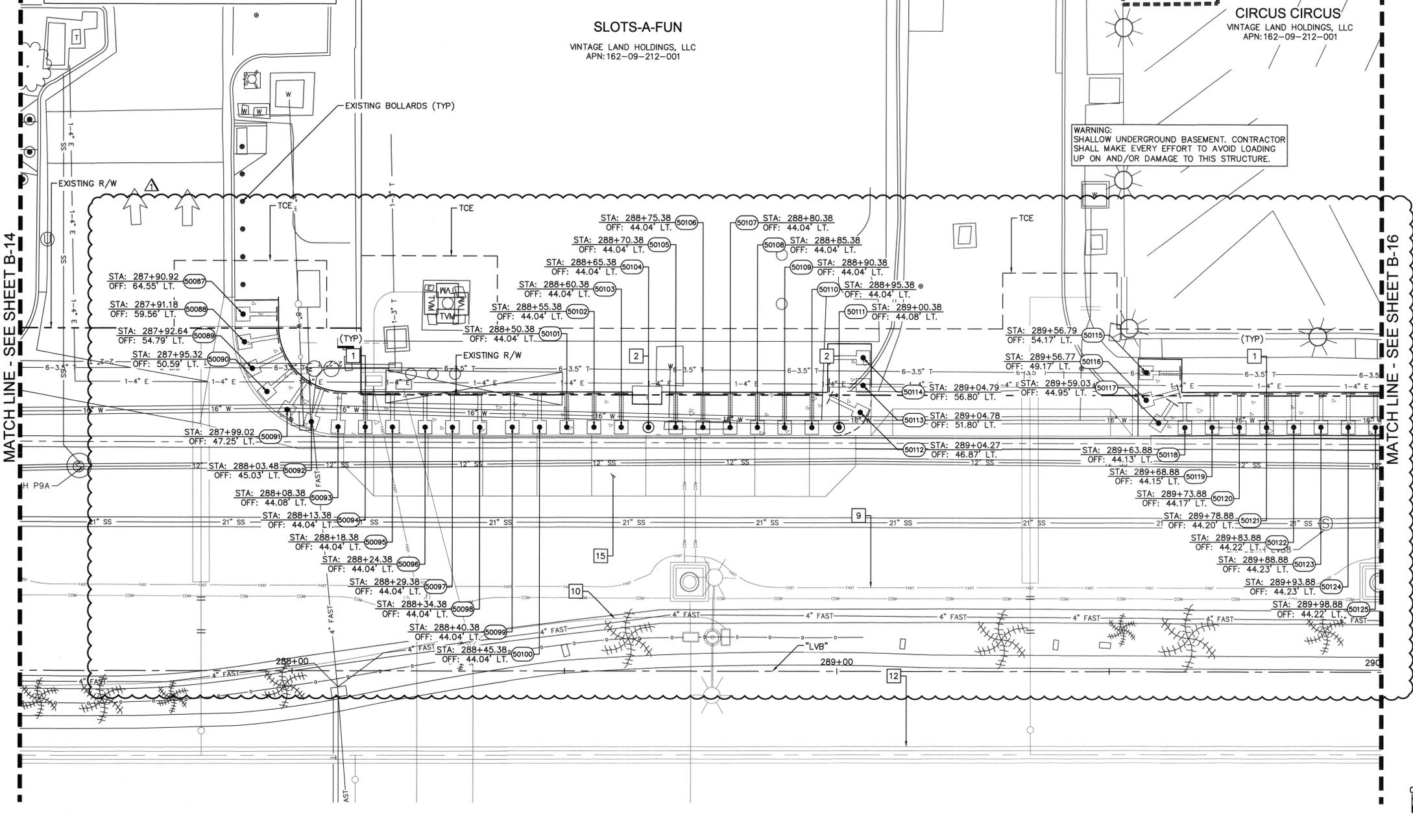
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077
FIRST APPROVED DATE: 12/16/19

SLOTS-A-FUN
VINTAGE LAND HOLDINGS, LLC
APN: 162-09-212-001

CIRCUS CIRCUS
VINTAGE LAND HOLDINGS, LLC
APN: 162-09-212-001

WARNING:
SHALLOW UNDERGROUND BASEMENT. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID LOADING UP ON AND/OR DAMAGE TO THIS STRUCTURE.

CCWRD APPROVAL
DATE: 11-25-19
CCWRD PIPES NUMBER IS #19,949
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.



MATCH LINE - SEE SHEET B-14

MATCH LINE - SEE SHEET B-16

User: fernando.roz@kimley-horn.com
 Path: K:\LAV_Public\Trans\0920201-CC-021-LVB_Roadway-Signal\CAD\Plan\0920201-021-16.dwg /
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BID No.: 605203-19

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

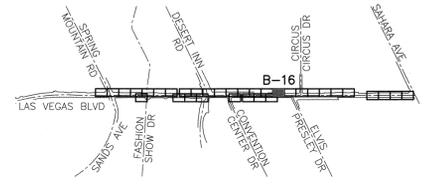
CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11.25.19
 CCWRD PIPES NUMBER IS #19.949
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19

CIRCUS CIRCUS
 VINTAGE LAND HOLDINGS, LLC
 APN: 162-09-212-001

WARNING:
 SHALLOW UNDERGROUND BASEMENT. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID LOADING UP ON AND/OR DAMAGE TO THIS STRUCTURE.



KEY MAP
 NTS

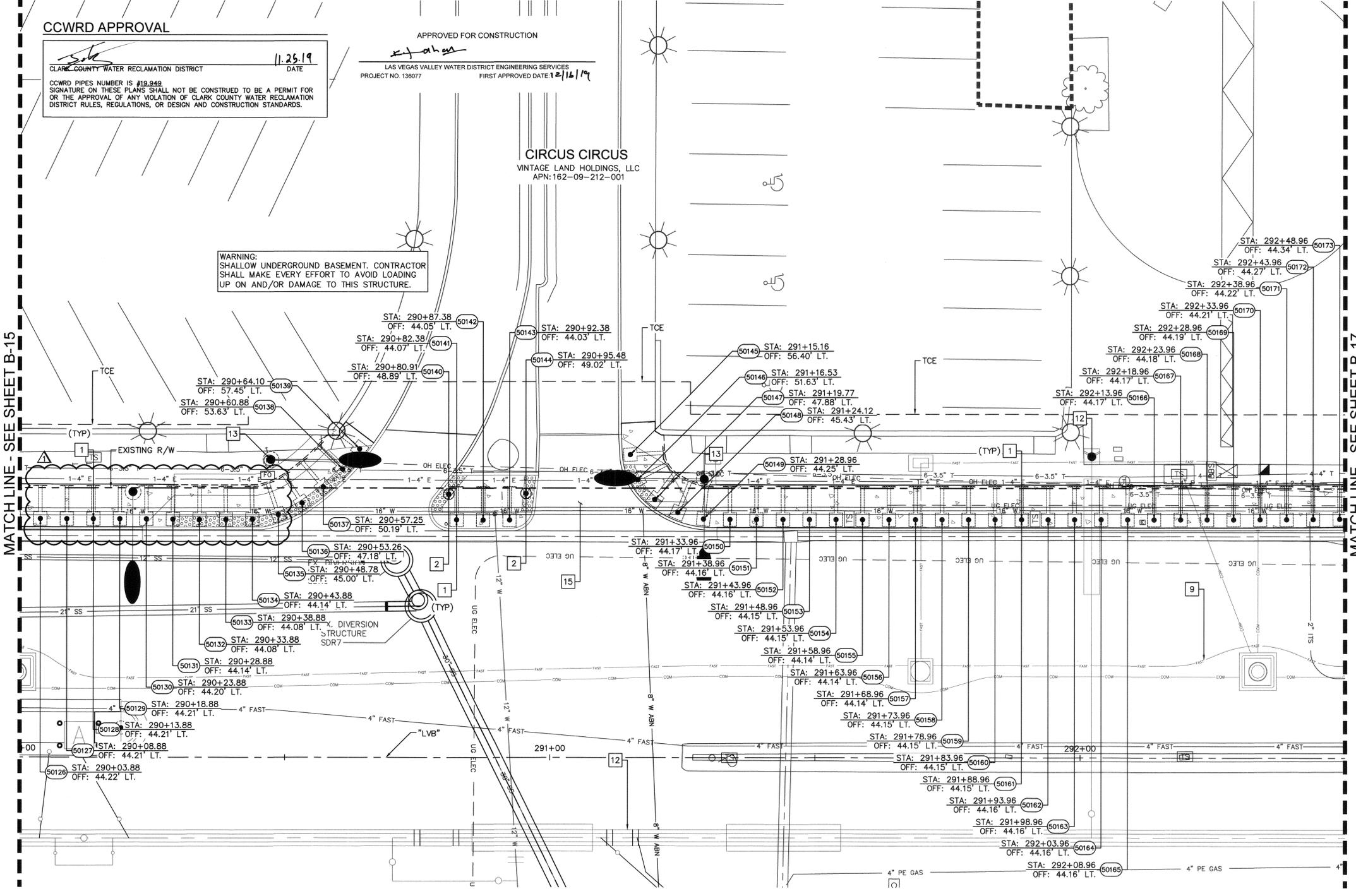
- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

FROM BOLLARD 50126 TO 50135
 BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36".
 SEE DETAIL C.1 ON SHEET DT-03.

FROM BOLLARD 50140 TO 50144
 BOLLARDS ARE NOT 5 FEET ON CENTER. SEE STATION AND OFFSET FOR LOCATION

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.



MATCH LINE - SEE SHEET B-15

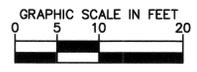
MATCH LINE - SEE SHEET B-17

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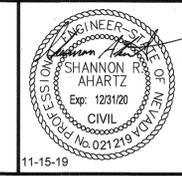
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

Kimley-Horn
 6871 Las Vegas Boulevard South, Suite 330
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-3600

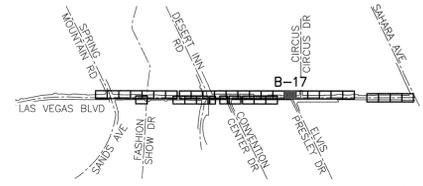
SCALE	SHEET No
HORIZ: 1" = 10'	B-16
VERT: N/A	SHEET 71 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

Users: fernando.cruz
 Path: K:\LAV_Public\Trans\0920061-CC_021-LVB_Roadway-Signal\CAD\Drawings\0920061-021-LVB-16.dwg /
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BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

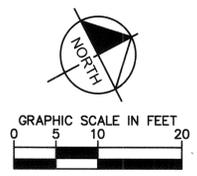
- NOTE:**
- CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 - CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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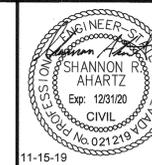
UnderGround
Call before you dig
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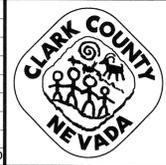
DESIGNED BY: BAC	SCALE	SHEET No
DRAWN BY: BAC	HORIZ: 1" = 10'	B-17
CHECKED BY: SRA	VERT: N/A	SHEET 72 OF 345
DATE: 11-15-2019	FIELD BOOK: NONE	L-2210

DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

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Tel. No. (702) 862-3600



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019

APPROVED

CCWRD APPROVAL

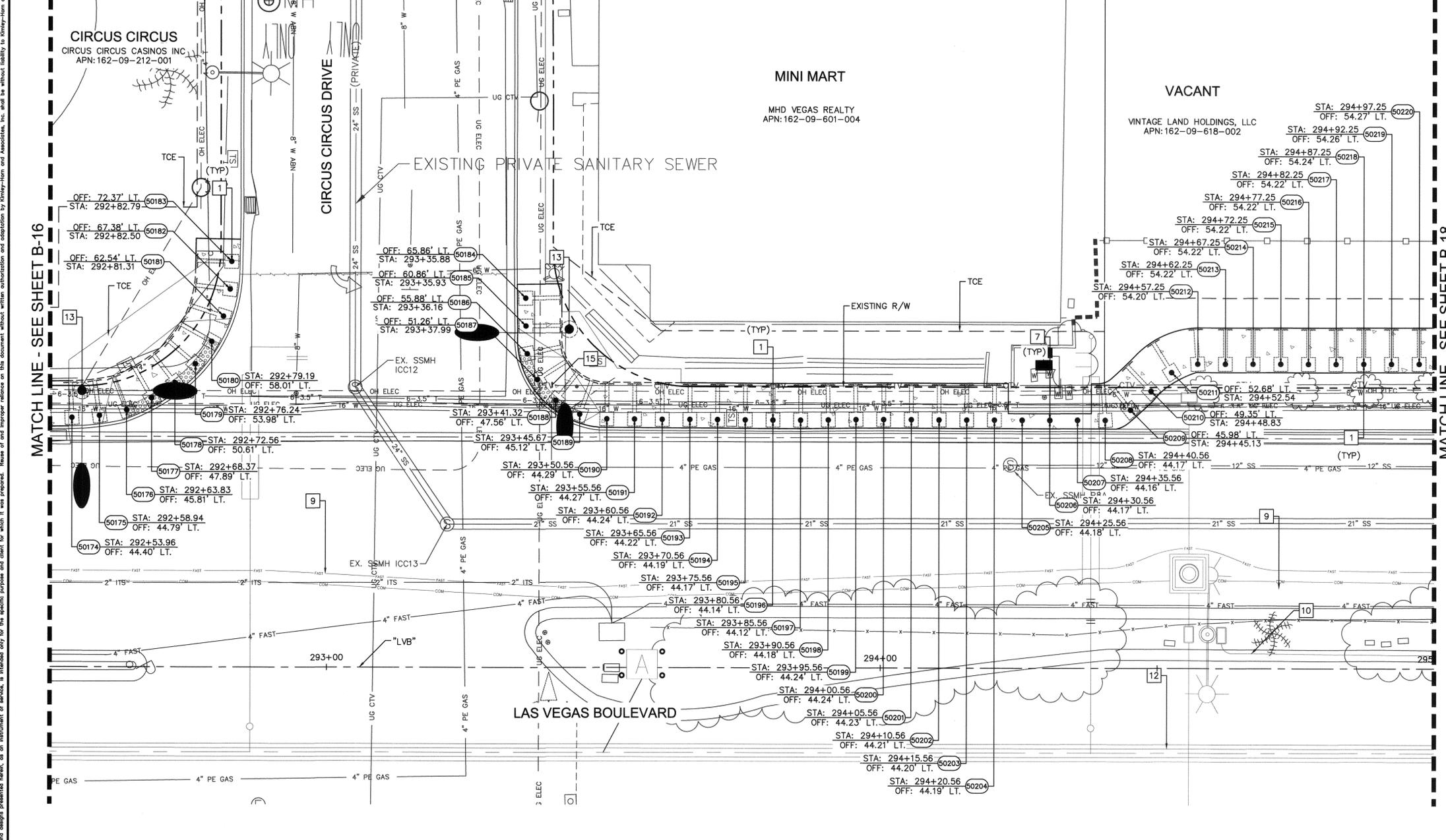
11-25-19 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #19-043
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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077
FIRST APPROVED DATE: 12/16/19



Vertical text on the left margin: User: fernando.roza; Path: K:\NAV_Public\Trans\092061\CC\021-LVB_Roadway-Signal\CAD\Plansheets\092061021-BOL-17-21.dwg / This document, together with the concrete and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Vertical text on the right margin: BLD No.: 605203-19

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
DATE 11-25-19
CCWRD PIPES NUMBER IS #19-949
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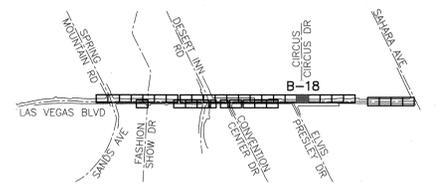
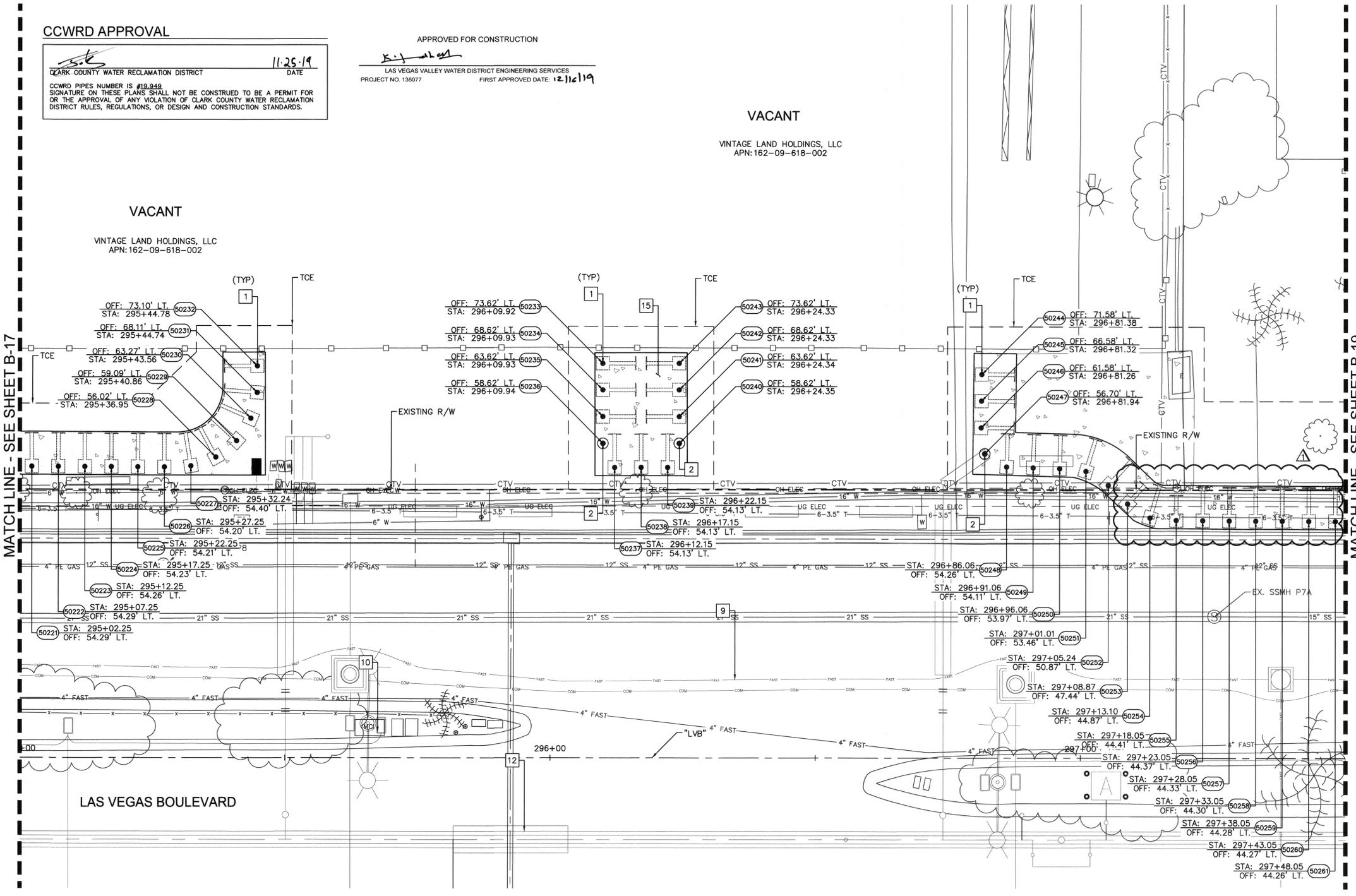
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

VACANT

VINTAGE LAND HOLDINGS, LLC
APN: 162-09-618-002

VACANT

VINTAGE LAND HOLDINGS, LLC
APN: 162-09-618-002



KEY MAP
NTS

BOLLARD NOTES:

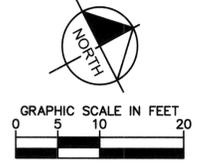
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
15 PROPOSED CONSTRUCTION, SEE C SERIES

FROM BOLLARD 50253 TO 50261
BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36". SEE DETAIL C.1 ON SHEET DT-03.

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
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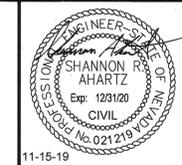


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Table with 3 columns: NO., REVISIONS, DATE. Contains revision history for construction approval.



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019
Kimley Horn
8871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 882-3900

Table with 3 columns: SCALE, SHEET No. Contains scale information (HORIZ: 1"=10', VERT: N/A, FIELD BOOK: NONE) and sheet identification (SHEET 73 OF 345, L-2210).

ISSUED FOR CONSTRUCTION

BID NO.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE: 11-25-19

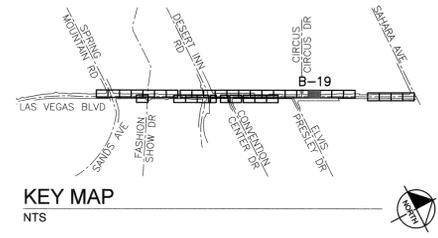
CCWRD PIPES NUMBER IS #19-949

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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136077 FIRST APPROVED DATE: 12/12/19



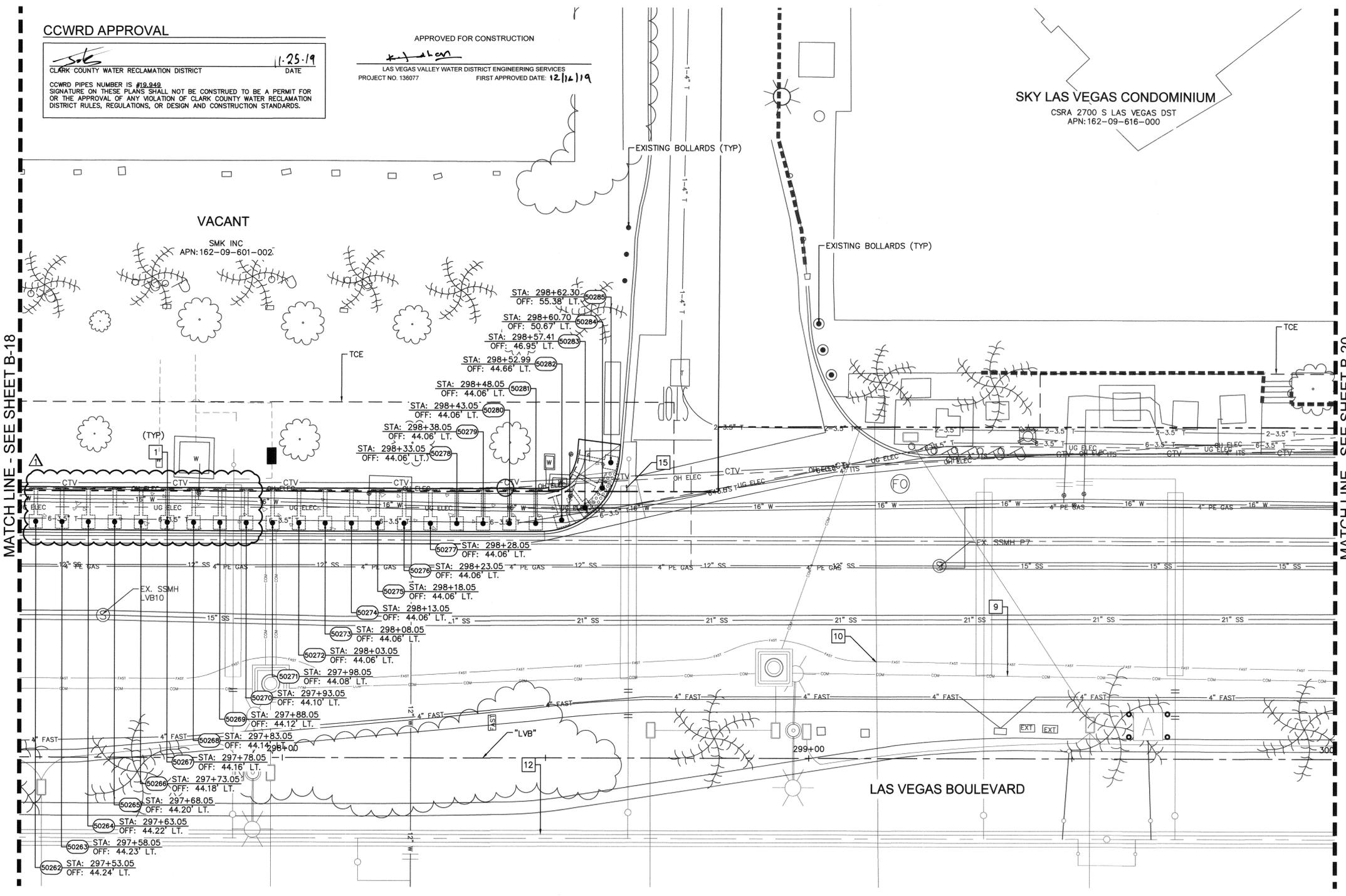
SKY LAS VEGAS CONDOMINIUM

CSRA 2700 S LAS VEGAS DST
APN: 162-09-616-000

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

MATCH LINE - SEE SHEET B-18

MATCH LINE - SEE SHEET B-20



FROM BOLLARD 50262 TO 50270

BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36". SEE DETAIL C.1 ON SHEET DT-03.

EXPANSION JOINT

INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
- CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 - CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

811 SAFETY ALERT

Call Before You Overhead
1-702-227-2929

know what's below
Call before you dig

UNION PACIFIC RAILROAD
Call Before You Dig
1-800-336-9193

UnderGround
Call Before You Dig
1-702-432-5300

GRAPHIC SCALE IN FEET
0 5 10 20

NORTH

User: fernando.roz@ccwr.com Path: K:\LAV_Public\Trans\0920201_CC\021-LVB_Roadway-Signal\CAD\Drawings\0920201021-BOL-17-21.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Issues of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

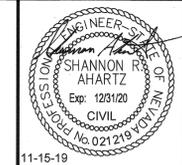
NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019

APPROVED



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET No.
HORIZ: 1" = 10'	B-19
VERT: N/A	SHEET 74 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No. : 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE: 11-25-19

CCWRD PIPES NUMBER IS #19-949

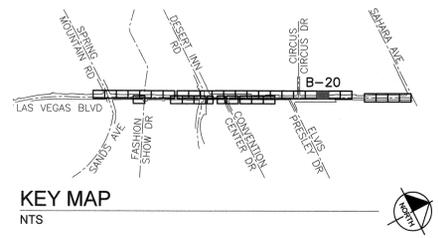
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION

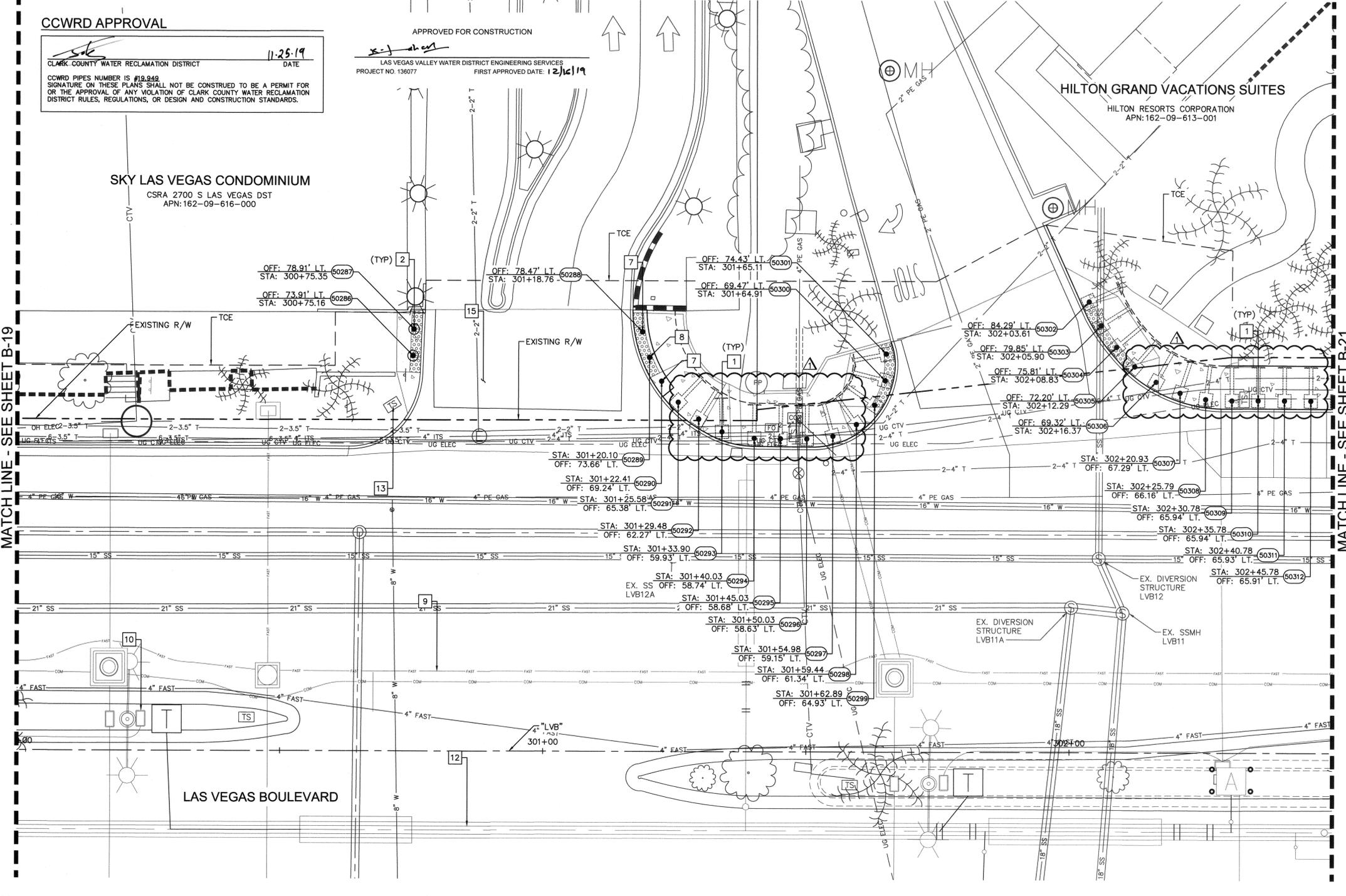
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136077

FIRST APPROVED DATE: 12/16/19



- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
 - 7 INSTALL TRENCH BOLLARDS PER DETAIL K ON SHEET DT-08
 - 8 INSTALL REMOVABLE BOLLARD PER DETAIL L ON SHEET DT-08
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES



FROM BOLLARD 50291 TO 50298 AND 50305 TO 50312

BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36" SEE DETAIL C.T ON SHEET DT-03.

FROM BOLLARD 50293 TO 50294

BOLLARDS ARE NOT 5 FEET ON CENTER. SEE STATION AND OFFSET FOR LOCATION

EXPANSION JOINT

INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

811 SAFETY ALERT

Call Before You Overhead 1-702-227-2929

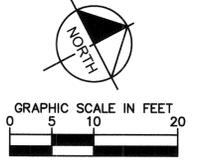
know what's Below Call before you dig

UNION PACIFIC RAILROAD

Call Before You Dig 1-800-336-9188

UnderGround

Call before you dig 1-702-432-5300



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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

PEDESTRIAN PROTECTION PLANS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC

DRAWN BY: BAC

CHECKED BY: SRA

DATE: 11-15-2019

Kimley Horn

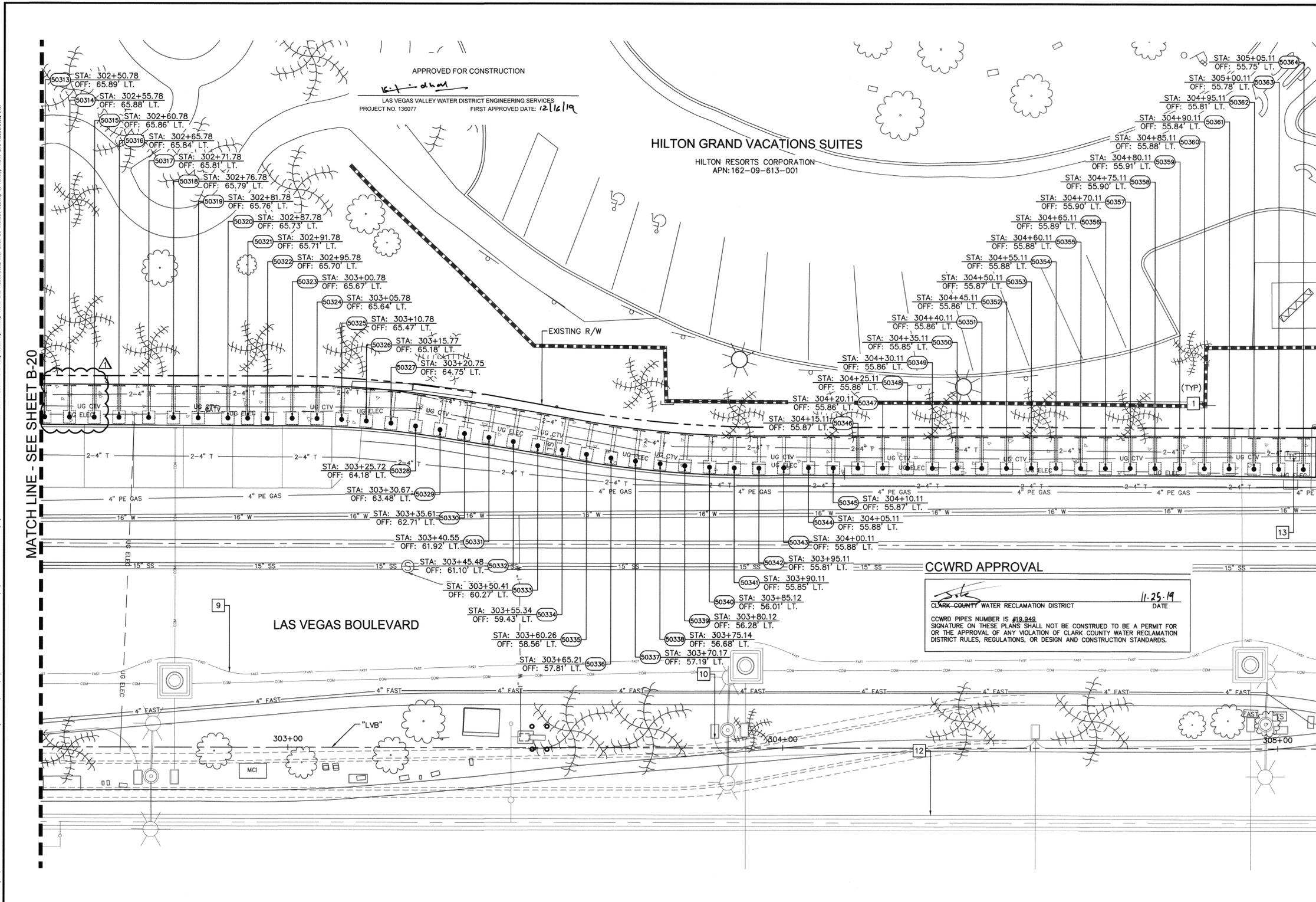
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 862-3800

SCALE	SHEET NO.
HORIZ: 1" = 10'	B-20
VERT: N/A	SHEET 75 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

User: fernando.roez
 Path: K:\LAV_Public\Trans\CC\021-LVB_Roadway-Signal\CAD\Plansheets\0922061021-BOL-17-21.dwg /
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APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

HILTON GRAND VACATIONS SUITES
 HILTON RESORTS CORPORATION
 APN: 162-09-613-001



- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES

FROM BOLLARD 50313 TO 50315
 BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36". SEE DETAIL C.1 ON SHEET DT-03.

FROM BOLLARD 50316 TO 50320
 BOLLARDS ARE NOT 5 FEET ON CENTER, SEE STATION AND OFFSET FOR LOCATION

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

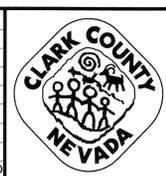
- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

CCWRD APPROVAL
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11.25.19
 CCWRD PIPES NUMBER IS #19,849
 SIGNATURE ON THESE PLANS SHALL NOT BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

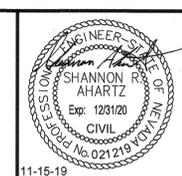
MATCH LINE - SEE SHEET B-20

MATCH LINE - SEE SHEET B-21A

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley»Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-21
VERT: N/A	SHEET 76 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

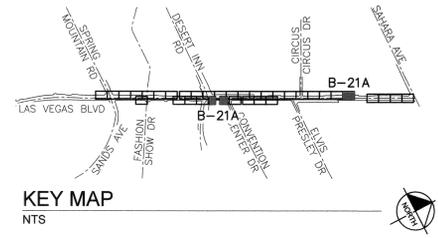
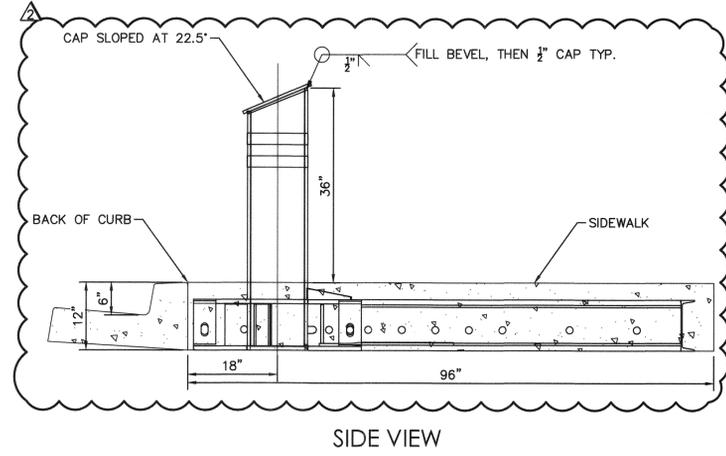
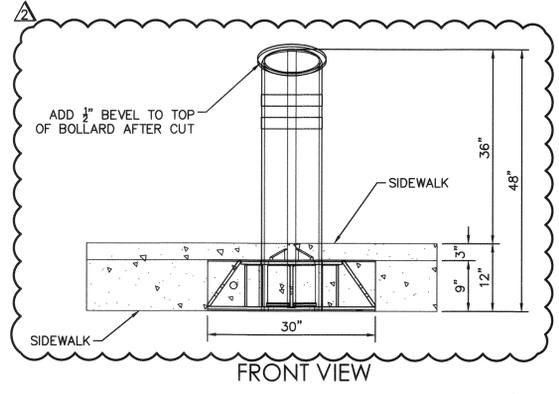
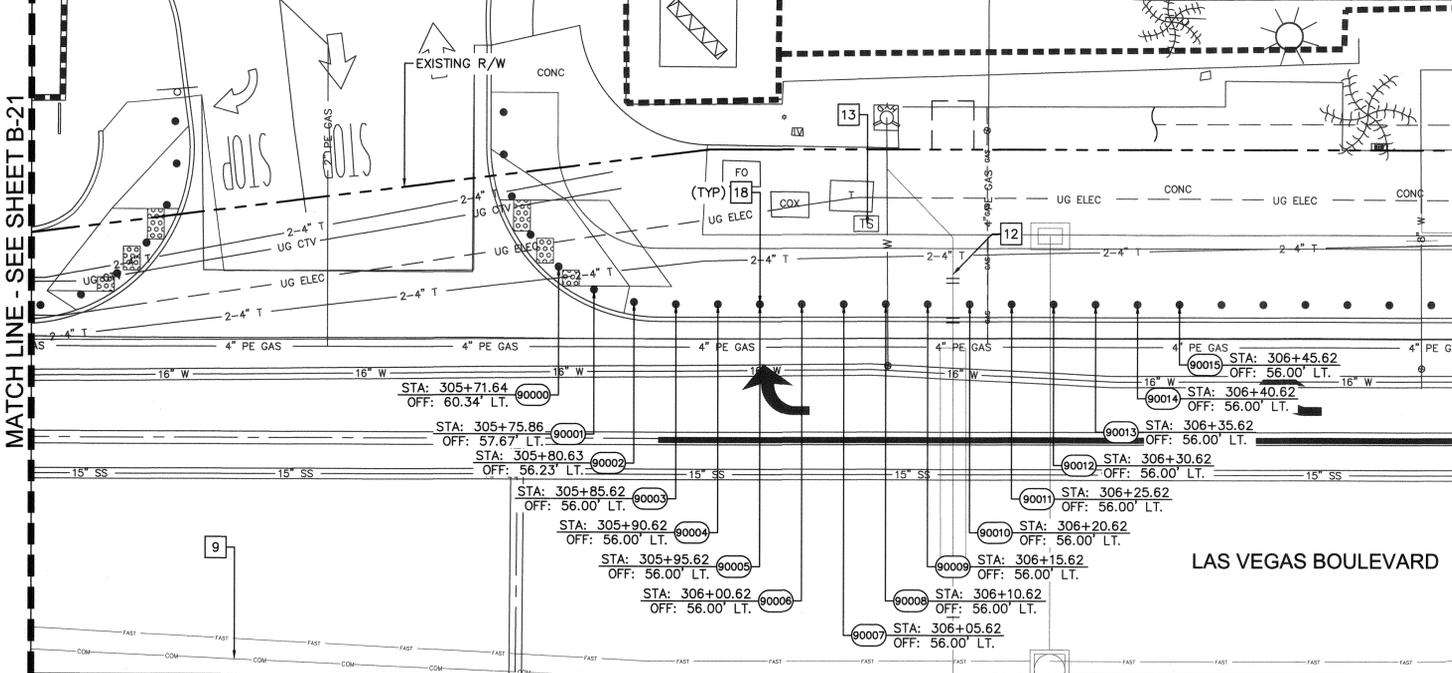
NEW SHEET ADDED

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
 CCWRD PIPES NUMBER IS #19,949
 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.
 DATE: 11-25-19

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

HILTON GRAND VACATIONS SUITES
 HILTON RESORTS CORPORATION
 APN: 162-09-613-001

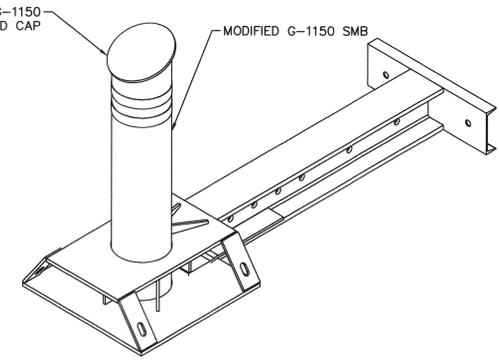


- BOLLARD NOTES:**
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 14 REFER TO RESORTS WORLD PLANS
 - 18 BOLLARDS TO BE TRIMMED TO A HEIGHT OF 36". SEE DETAIL ON THIS SHEET

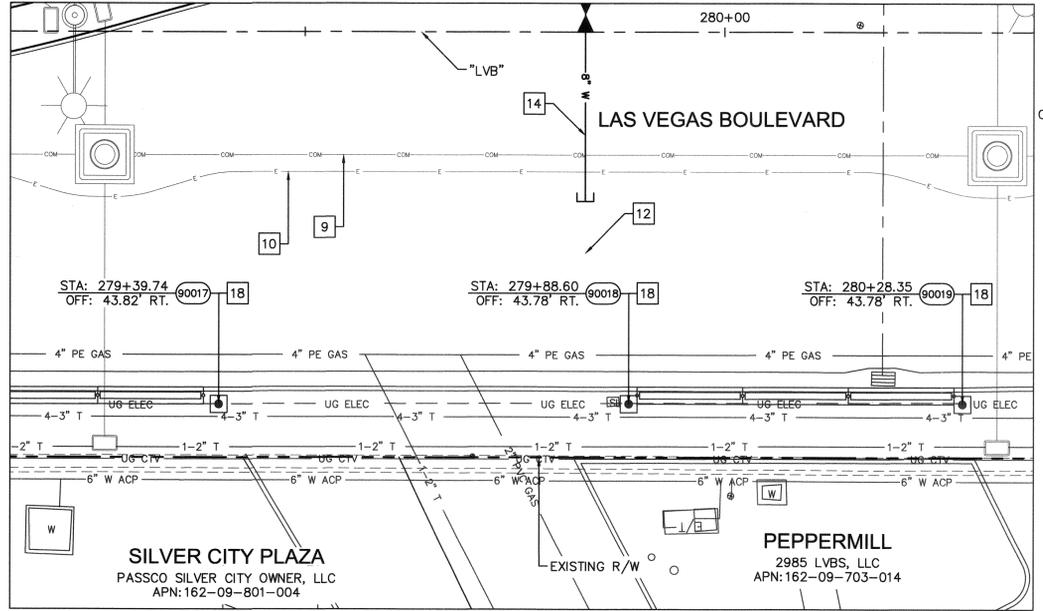
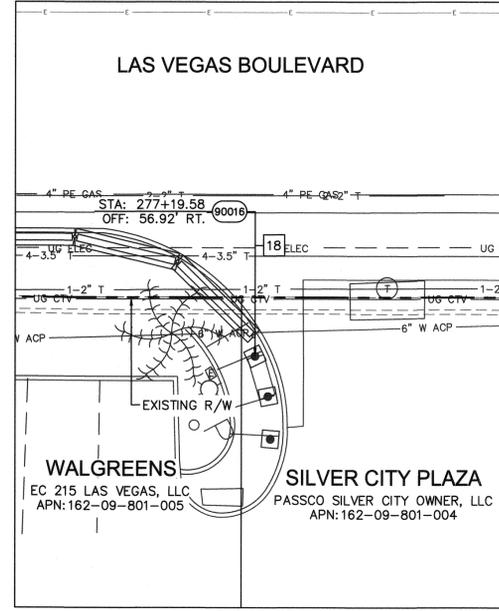
FROM BOLLARD 90000 TO 90019
 BOLLARDS TO BE TRIMMED TO A HEIGHT OF 36". SEE DETAIL ON THIS SHEET.

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.



ISOMETRIC VIEW (FOR REFERENCE ONLY)

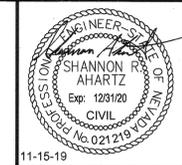


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 Path: K:\AV_Public\Trans\0920201_CC\021-LVB_Roadway-Signal\CAD\Plansheets\0920201021-BOL-17-21.dwg /
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

Kimley»Horn
 8671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

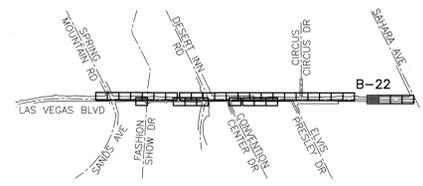
SCALE	HORIZ: 1" = 10'	SHEET No.	B-21A
VERT: N/A	FIELD BOOK NONE		
			SHEET 76A OF 345
			L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

BID NO. 605203-19

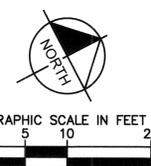


KEY MAP
NTS

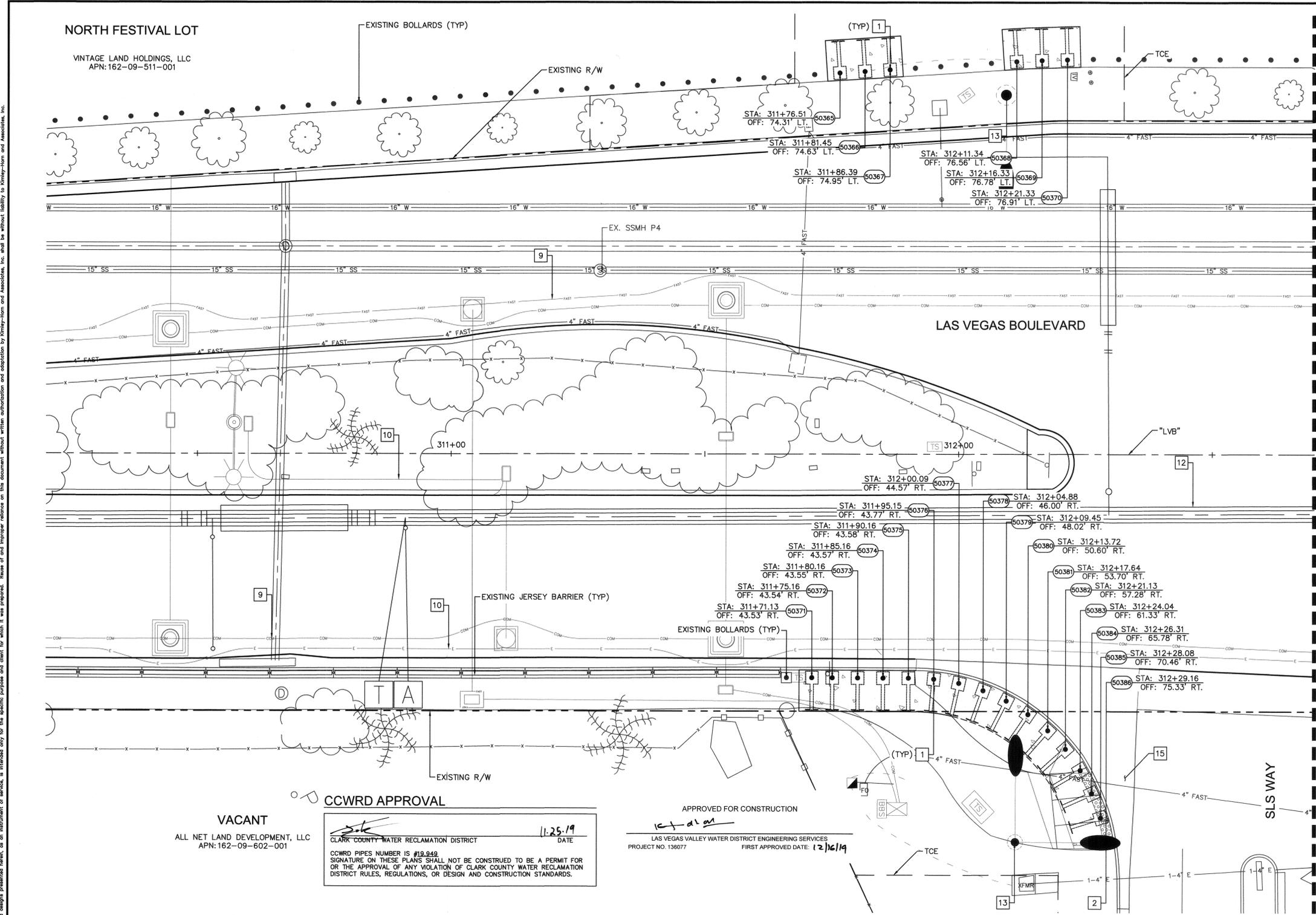
- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

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DESIGNED BY: BAC	SCALE	SHEET No.
DRAWN BY: BAC	HORIZ: 1" = 10'	B-22
CHECKED BY: SRA	VERT: N/A	SHEET 77 OF 345
DATE: 11-15-2019	FIELD BOOK: NONE	L-2210



MATCH LINE - SEE SHEET B-23

CCWRD APPROVAL
CLARK COUNTY WATER RECLAMATION DISTRICT
DATE: 11-25-19
CCWRD PIPES NUMBER IS #19,949
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.

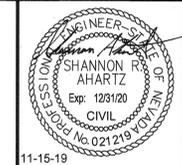
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077
FIRST APPROVED DATE: 12/16/19

VACANT
ALL NET LAND DEVELOPMENT, LLC
APN: 162-09-602-001

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

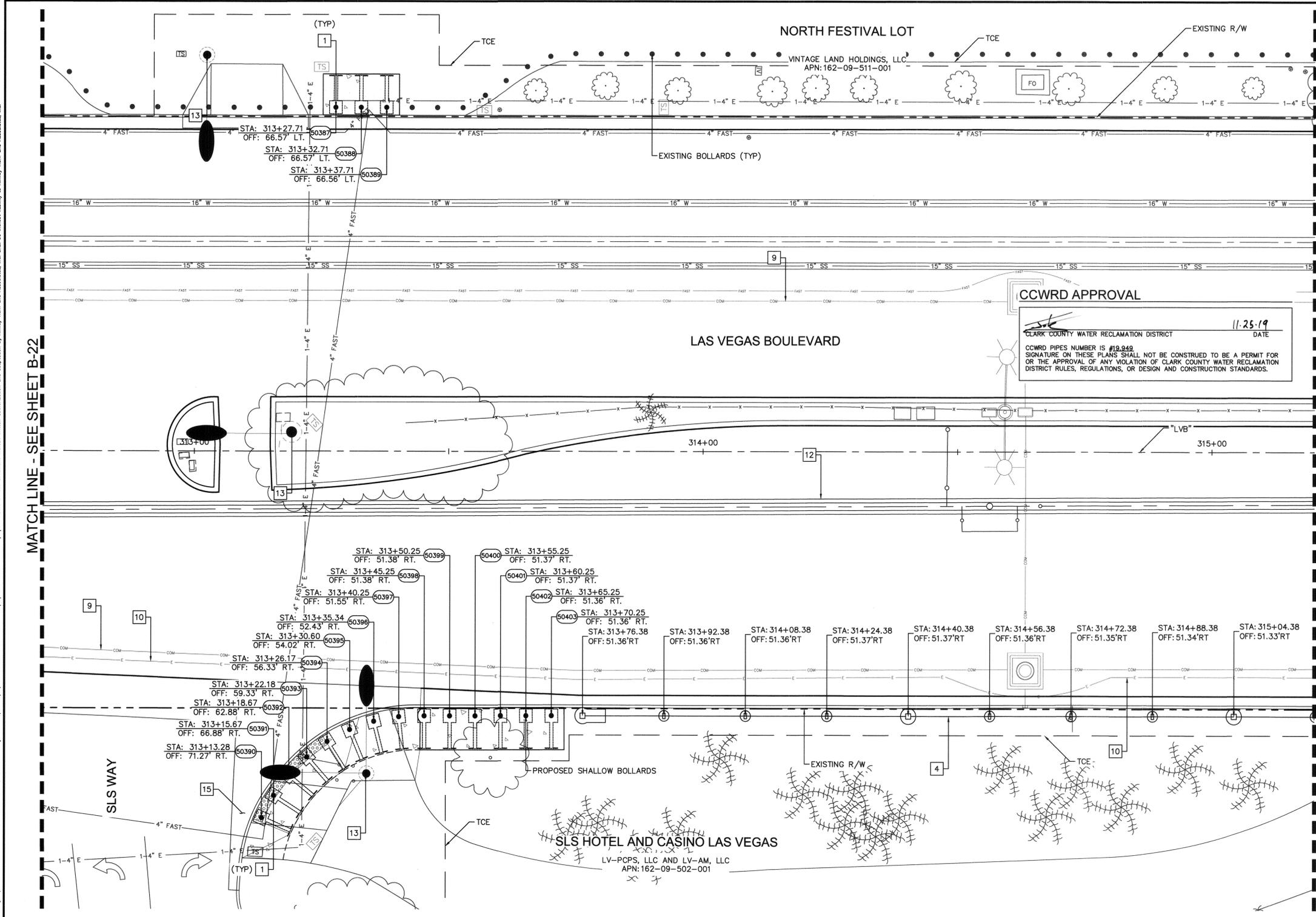


DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 882-3600

ISSUED FOR CONSTRUCTION

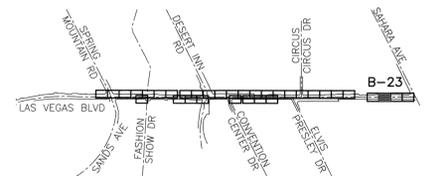
User: fernando.cruz Path: K:\LAV_Public\Trans\0920201-CC\021-LVB_Roadway-Signal\CAD\Plansheets\0920201021-BOL-22-25.dwg / This document, together with the contents and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. will be without liability to Kimley-Horn and Associates, Inc.

User: fernando.roez
 Path: K:\LAV_Public\Roadway-Signal\CAD\Plan\021-1-LVB_Roadway-Signal\CAD\Plan\021-1-LVB_Roadway-Signal\BOL-22-25.dwg /
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MATCH LINE - SEE SHEET B-22

MATCH LINE - SEE SHEET B-24



KEY MAP
NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 4 INSTALL POST AND CABLE BARRIER PER DETAIL Q ON SHEET DT-12
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

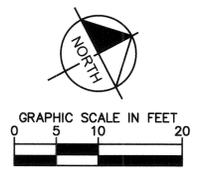
EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

FROM BOLLARD 50398 TO 50403
BOLLARDS WILL REQUIRE ADDITIONAL 4" HEIGHT TO ACCOUNT FOR THICKNESS OF LANDSCAPE TO BE PLACED IN ADDITION TO CONCRETE OVER BOLLARD FRAME.

APPROVED FOR CONSTRUCTION

 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/12/19

- NOTE:**
- CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 - CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.



811 SAFETY ALERT
 Call Before You Overhead
 1-702-227-2929

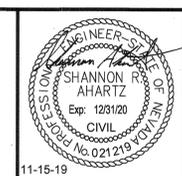
know what's below
Call before you dig

UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9189

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



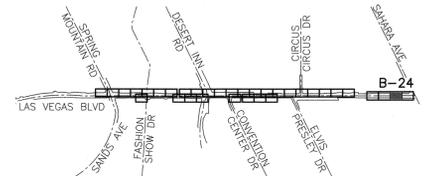
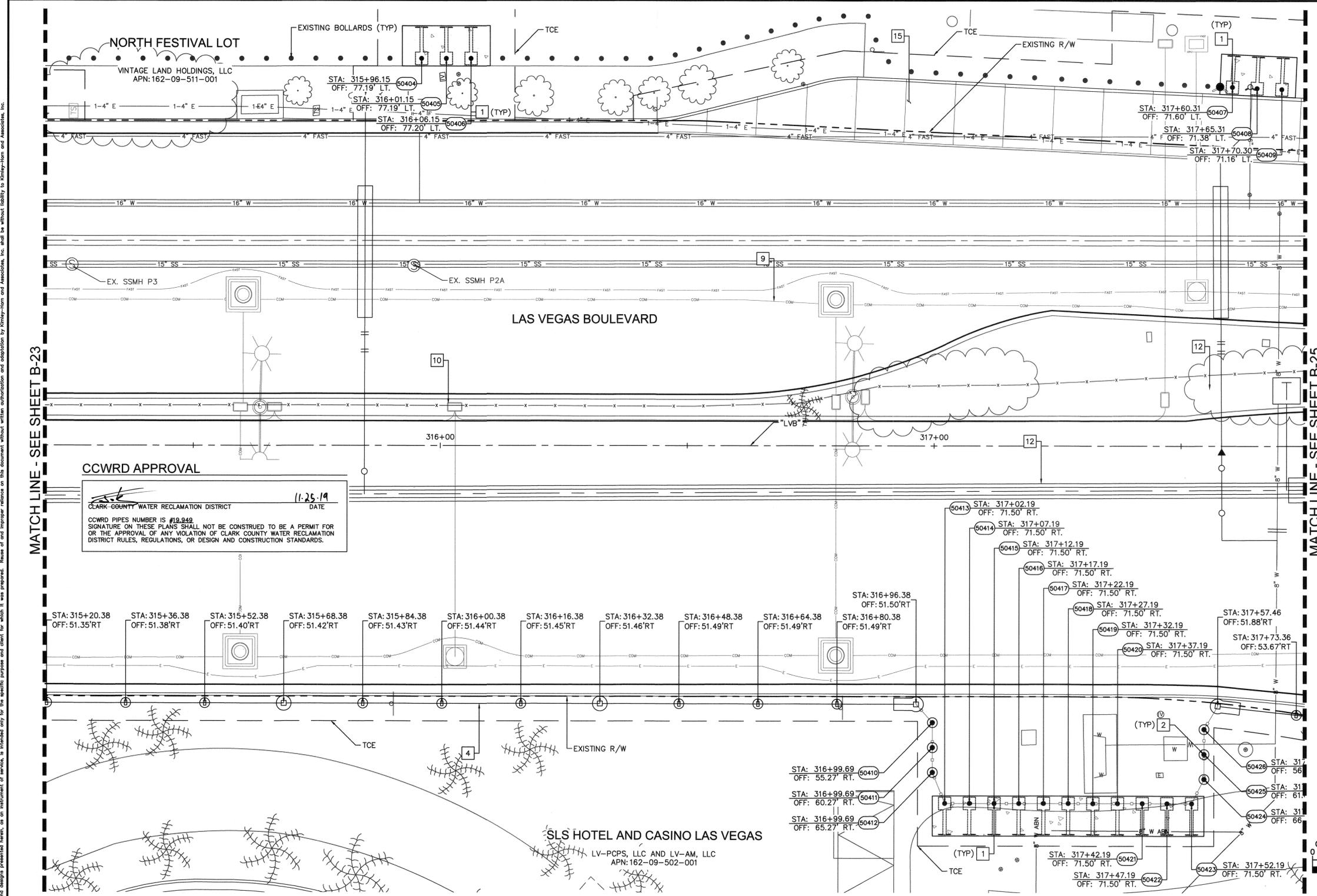
DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

SCALE	SHEET No
HORIZ: 1" = 10'	B-23
VERT: N/A	SHEET 78 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
 - 4 INSTALL POST AND CABLE BARRIER PER DETAIL Q ON SHEET DT-12
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

CCWRD APPROVAL
CLARK COUNTY WATER RECLAMATION DISTRICT
DATE: 11-25-19
CCWRD PIPES NUMBER IS #19,949
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.

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

EXPANSION JOINT
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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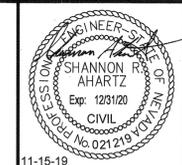
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GRAPHIC SCALE IN FEET
0 5 10 20

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

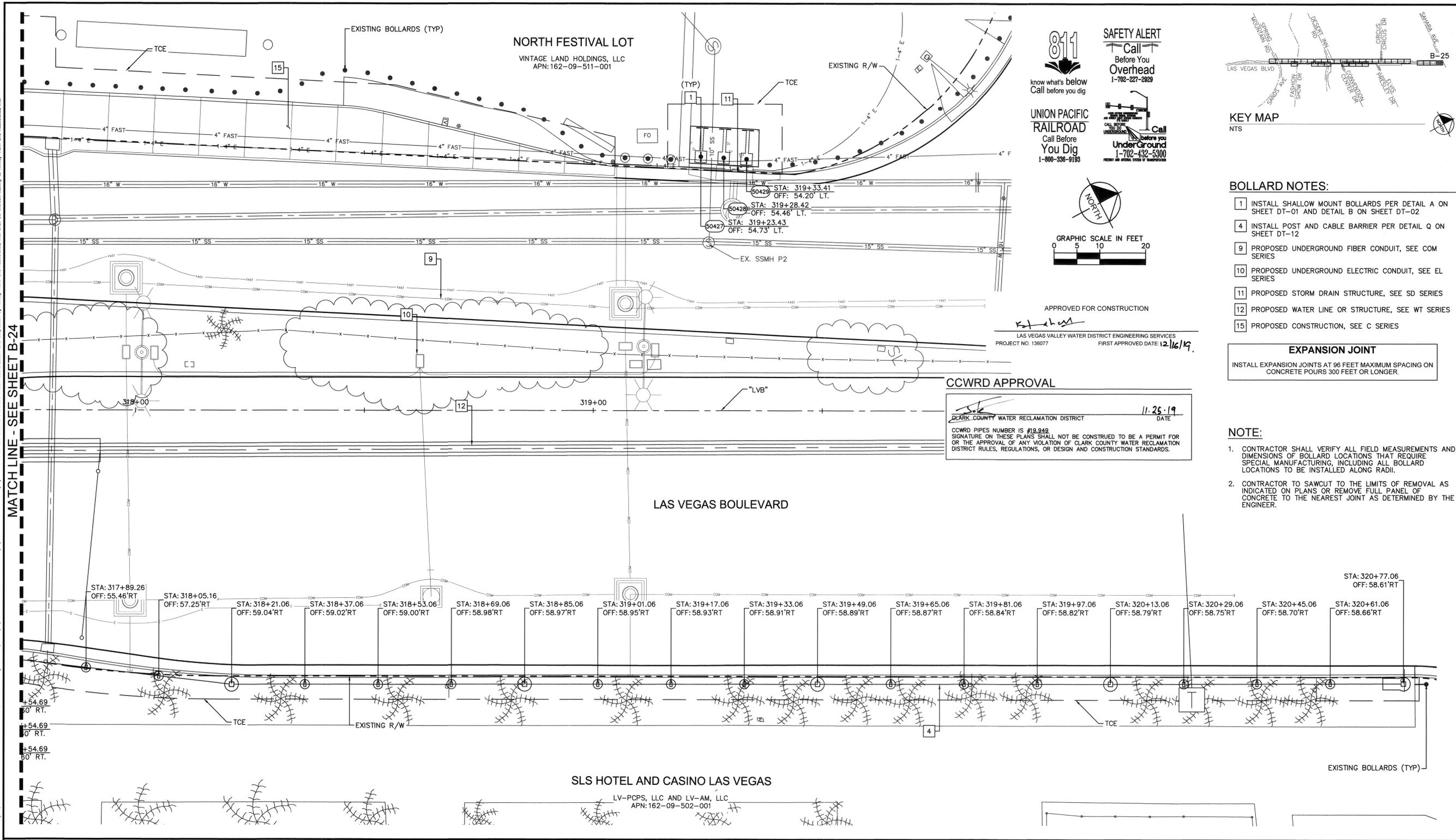
SCALE	SHEET No
HORIZ: 1" = 10'	B-24
VERT: N/A	SHEET 79 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

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BID No.: 605203-19

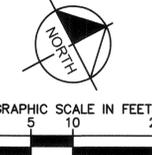
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 1-800-336-9193

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 1-702-432-5300
 MEMBER AND AFFILIATE SOCIETY OF INSPECTORS

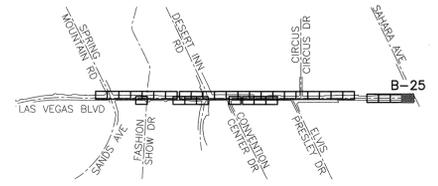


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[Signature]
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

CCWRD APPROVAL

[Signature] 11-25-19
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE
 CCWRD PIPES NUMBER IS #19,949
 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.



KEY MAP
 NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 4 INSTALL POST AND CABLE BARRIER PER DETAIL Q ON SHEET DT-12
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 11 PROPOSED STORM DRAIN STRUCTURE, SEE SD SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

EXPANSION JOINT

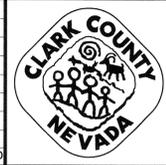
INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

NOTE:

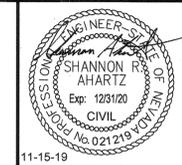
- 1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.
- 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

MATCH LINE - SEE SHEET B-24

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-25
VERT: N/A	SHEET 80 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 BID No. 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE: 11-25-19

CCWRD PIPES NUMBER IS #19-949

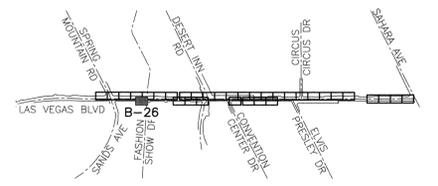
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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136077

FIRST APPROVED DATE: 12/16/19



KEY MAP

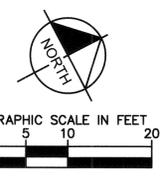
NTS

- BOLLARD NOTES:**
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES
 - 16 INSTALL CUSTOM BOLLARDS PER DETAILS H AND I ON SHEETS DT-05 AND DT-06

EXPANSION JOINT

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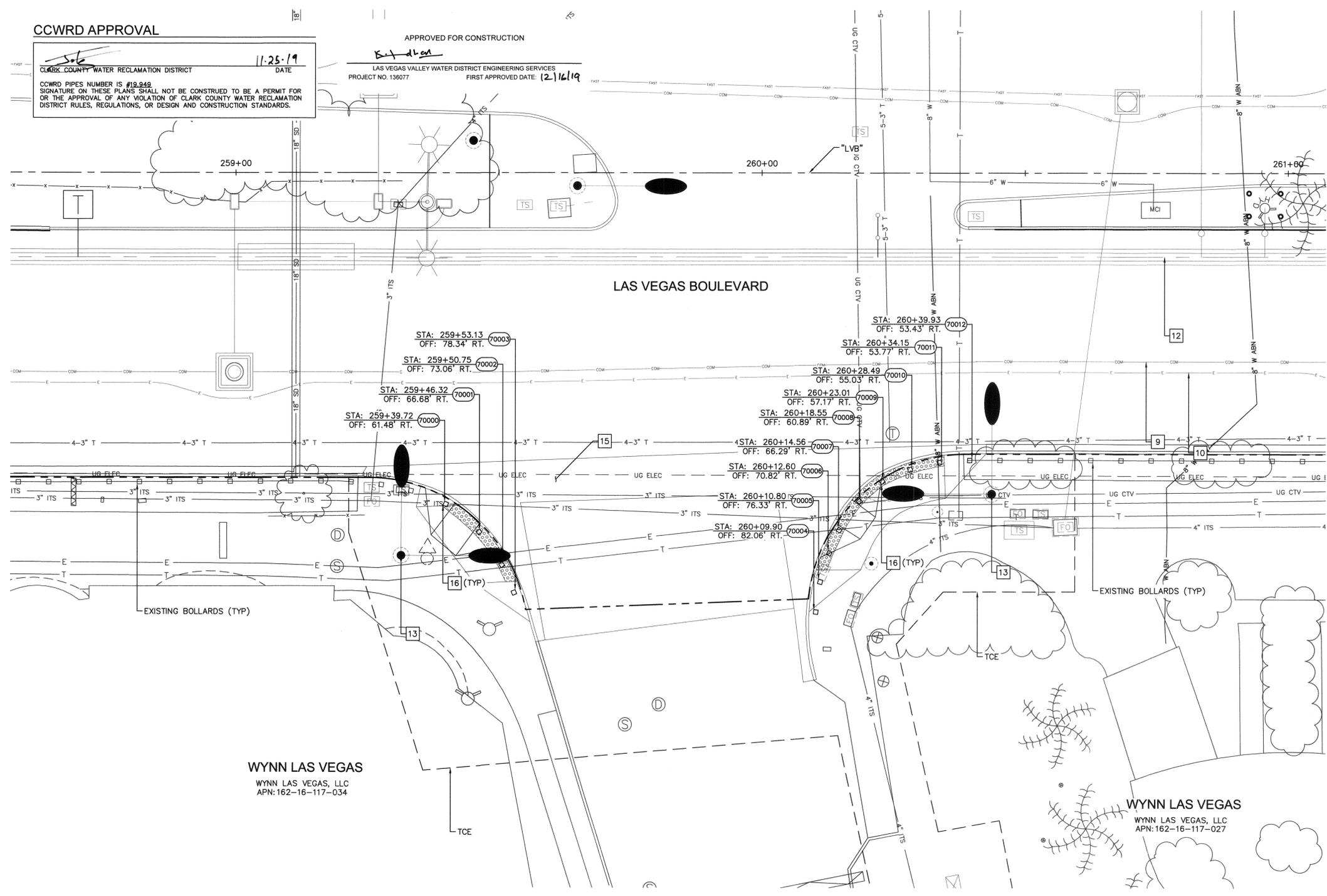
Call Before You Dig

1-800-336-9193

UnderGround

Call before you dig

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WYNN LAS VEGAS

WYNN LAS VEGAS, LLC

APN: 162-16-117-034

WYNN LAS VEGAS

WYNN LAS VEGAS, LLC

APN: 162-16-117-027

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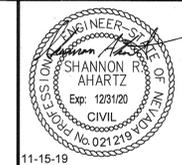
LAS VEGAS BOULEVARD

ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

PEDESTRIAN PROTECTION PLANS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC

DRAWN BY: BAC

CHECKED BY: SRA

DATE: 11-15-2019

Kimley»Horn

6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119

Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 10'	B-26
VERT: N/A	SHEET 81 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

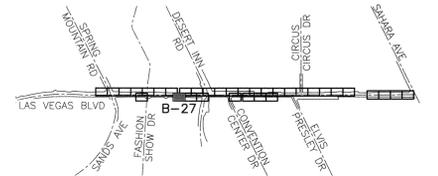
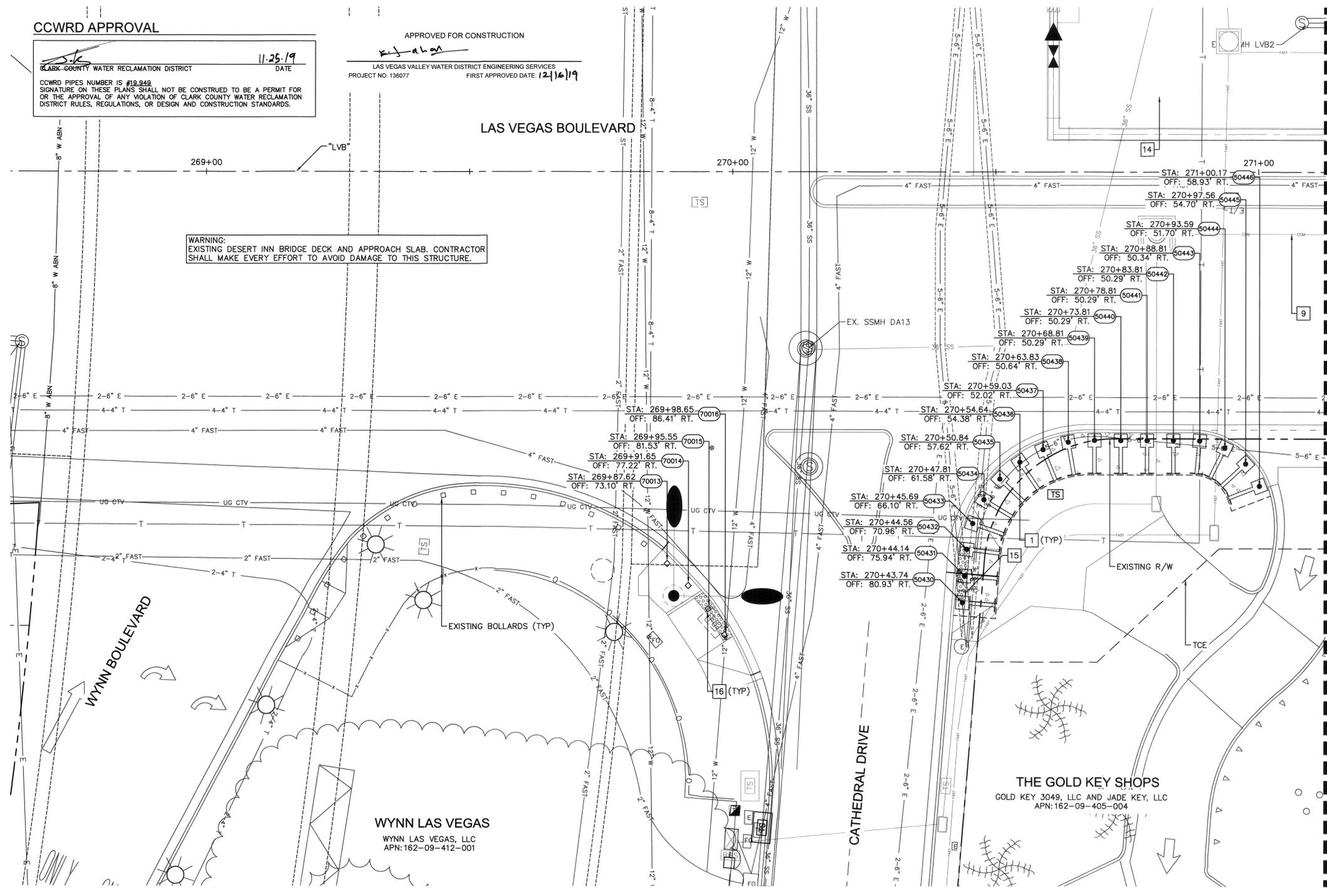
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
DATE 11-25-19
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.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

WARNING: EXISTING DESERT INN BRIDGE DECK AND APPROACH SLAB. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID DAMAGE TO THIS STRUCTURE.



KEY MAP
NTS

BOLLARD NOTES:

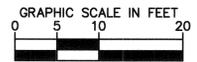
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
14 REFER TO RESORTS WORLD PLANS
15 PROPOSED CONSTRUCTION, SEE C SERIES
16 INSTALL CUSTOM BOLLARDS PER DETAILS H AND I ON SHEETS DT-05 AND DT-06

EXPANSION JOINT
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MATCH LINE - SEE SHEET B-28

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PROTECTION PLANS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



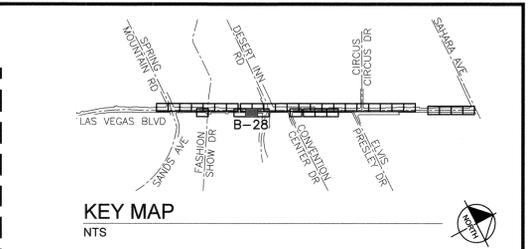
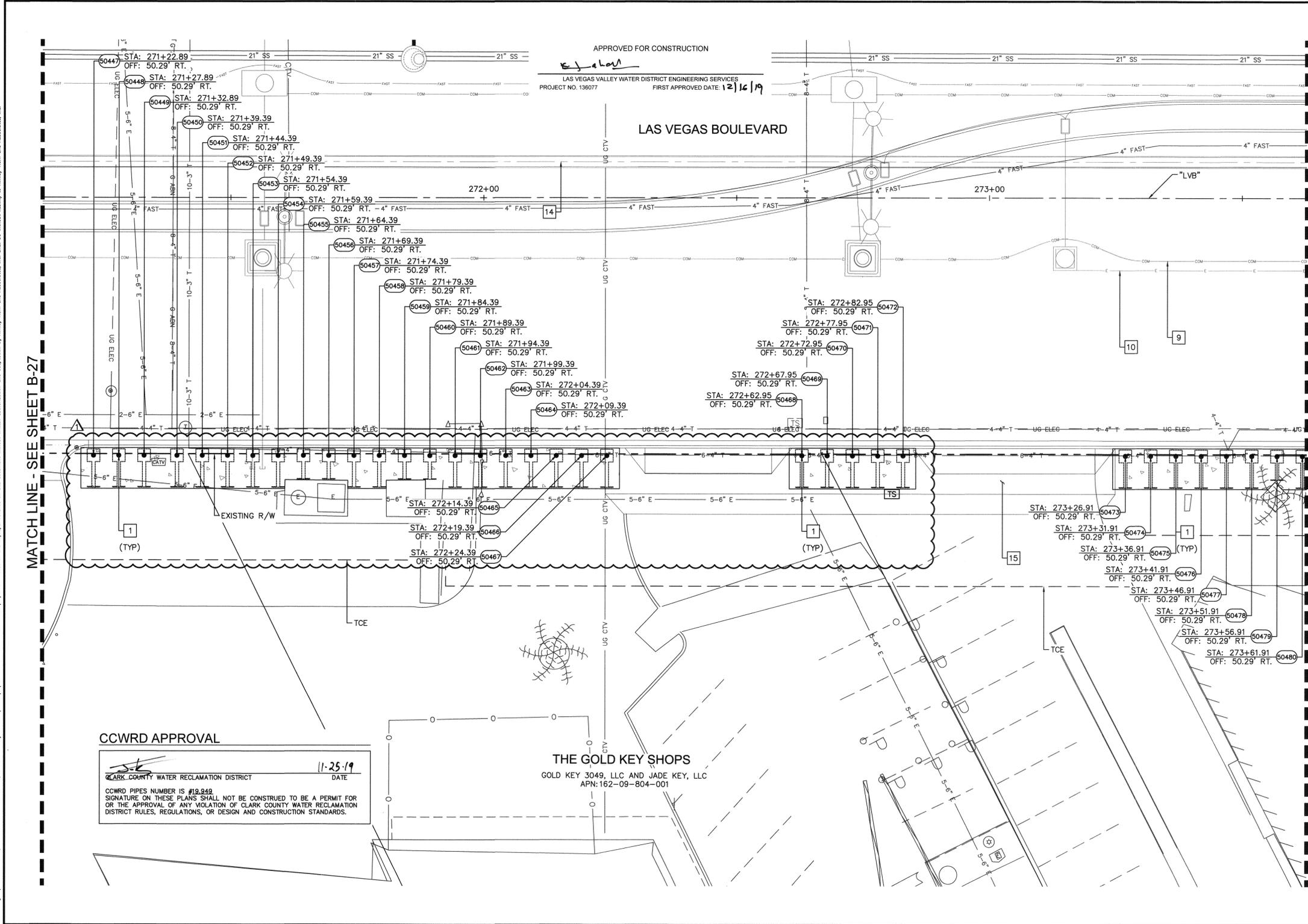
DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: FAR
DATE: 11-15-2019
Kimley Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-9600

Table with 3 columns: SCALE, SHEET No., SHEET 82 OF 345. Row 1: HORIZ: 1" = 10', SHEET No. B-27. Row 2: VERT: N/A, SHEET 82 OF 345. Row 3: FIELD BOOK NONE, SHEET 82 OF 345. Row 4: L-2210

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BD No.: 605203-19

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- KEY MAP**
NTS
- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 14 REFER TO RESORTS WORLD PLANS
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

FROM BOLLARD 50447 TO 50472
BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36". SEE DETAIL C.1 ON SHEET DT-03.

FROM BOLLARD 50384 TO 50385
BOLLARDS ARE NOT 5 FEET ON CENTER. SEE STATION AND OFFSET FOR LOCATION

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CCWRD APPROVAL

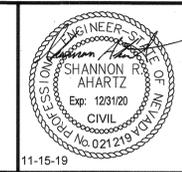
CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES NUMBER IS #19,849
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THE GOLD KEY SHOPS
GOLD KEY 3049, LLC AND JADE KEY, LLC
APN: 162-09-804-001

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



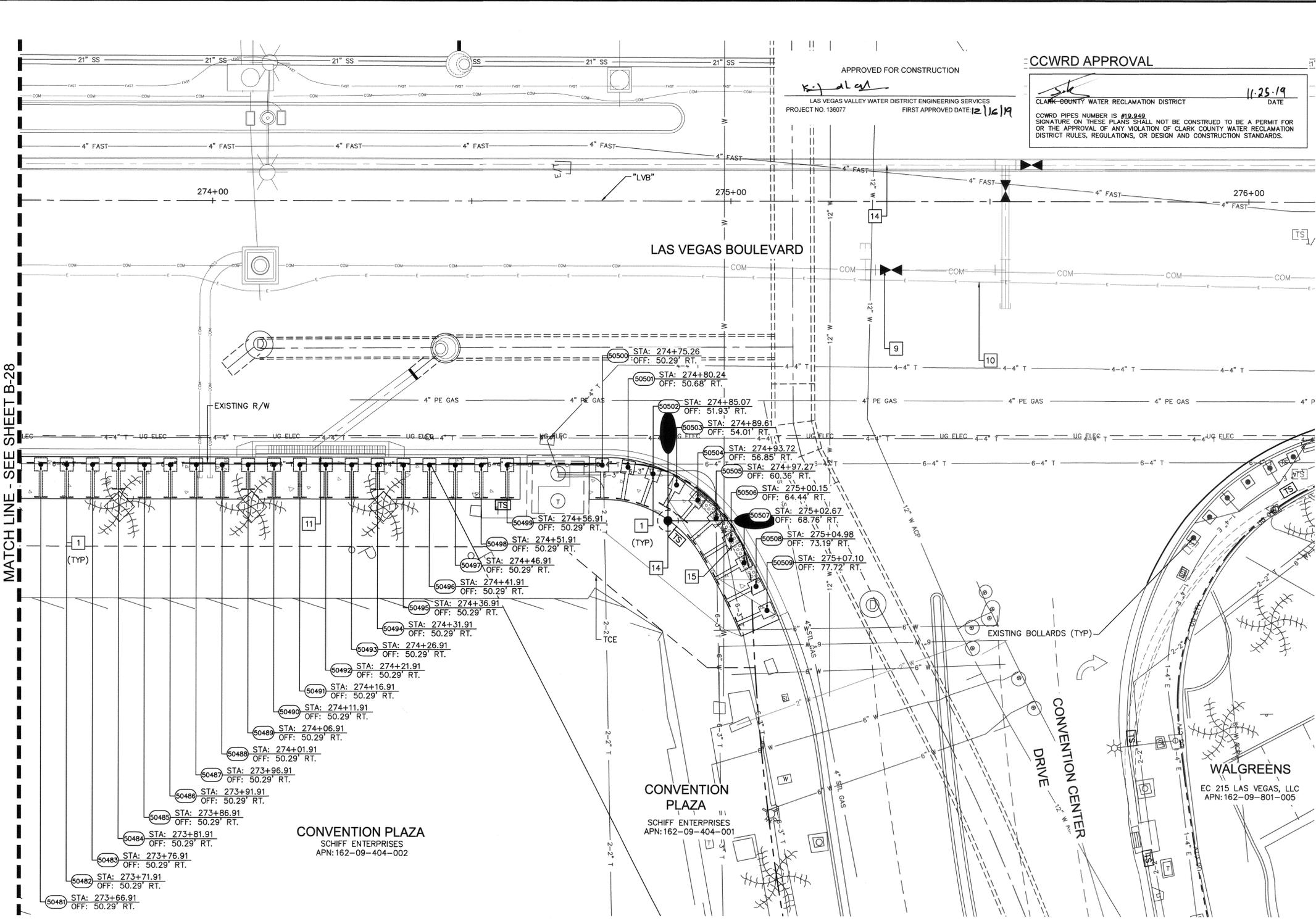
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 DRAWN BY: BAC
 CHECKED BY: FAR
 DATE: 11-15-2019
Kimley»Horn
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SCALE	SHEET No
HORIZ: 1" = 10'	B-28
VERT: N/A	SHEET 83 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

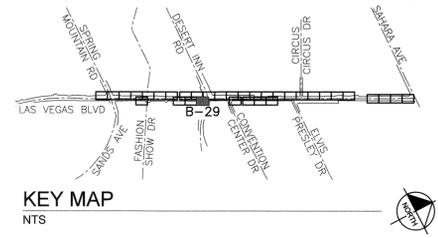
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 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19

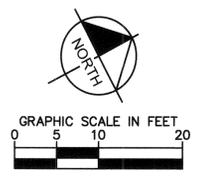
CCWRD APPROVAL
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES NUMBER IS #19-048
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 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 11 PROPOSED STORM DRAIN STRUCTURE, SEE SD SERIES
 - 14 REFER TO RESORTS WORLD PLANS
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

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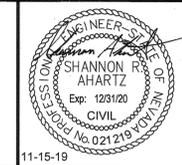
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
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 CHECKED BY: FAR
 DATE: 11-15-2019

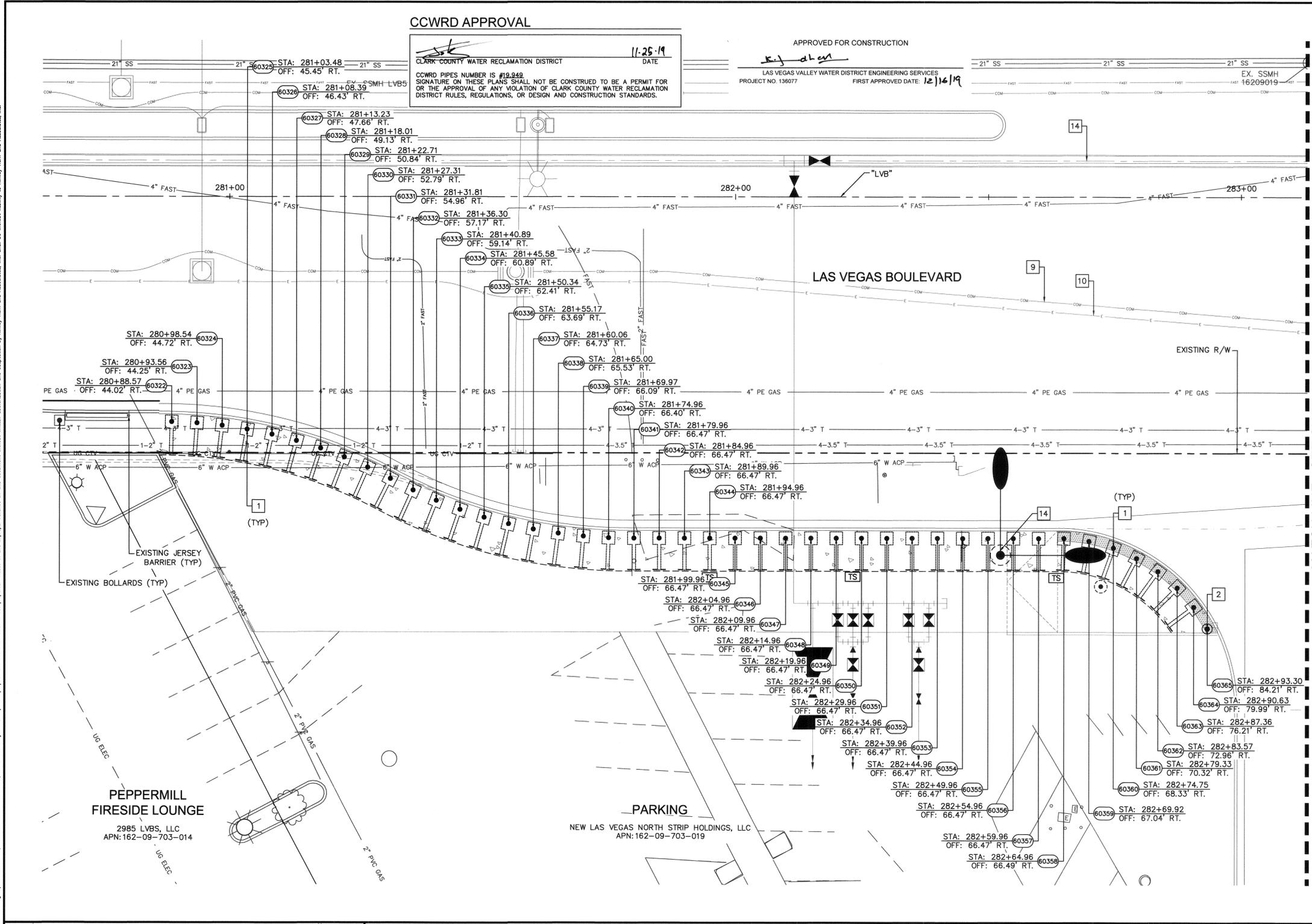
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SCALE	SHEET No
HORIZ: 1" = 10'	B-29
VERT: N/A	SHEET 84 OF 345
FIELD BOOK NONE	L-2210

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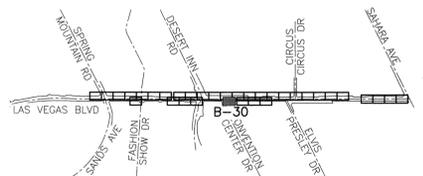
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 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
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APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 158077
 FIRST APPROVED DATE: 12/16/19



KEY MAP
 NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 14 REFER TO RESORTS WORLD PLANS

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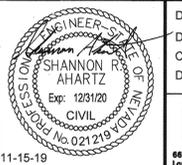
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2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: FAR
 DATE: 11-15-2019

Kimley Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-3800

SCALE	SHEET NO.
HORIZ: 1" = 10'	B-30
VERT: N/A	SHEET 85 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 BLD No.: 605203-19

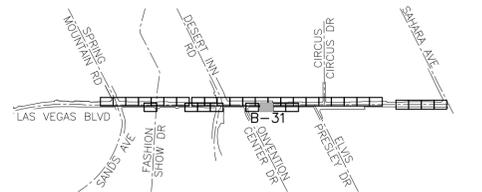
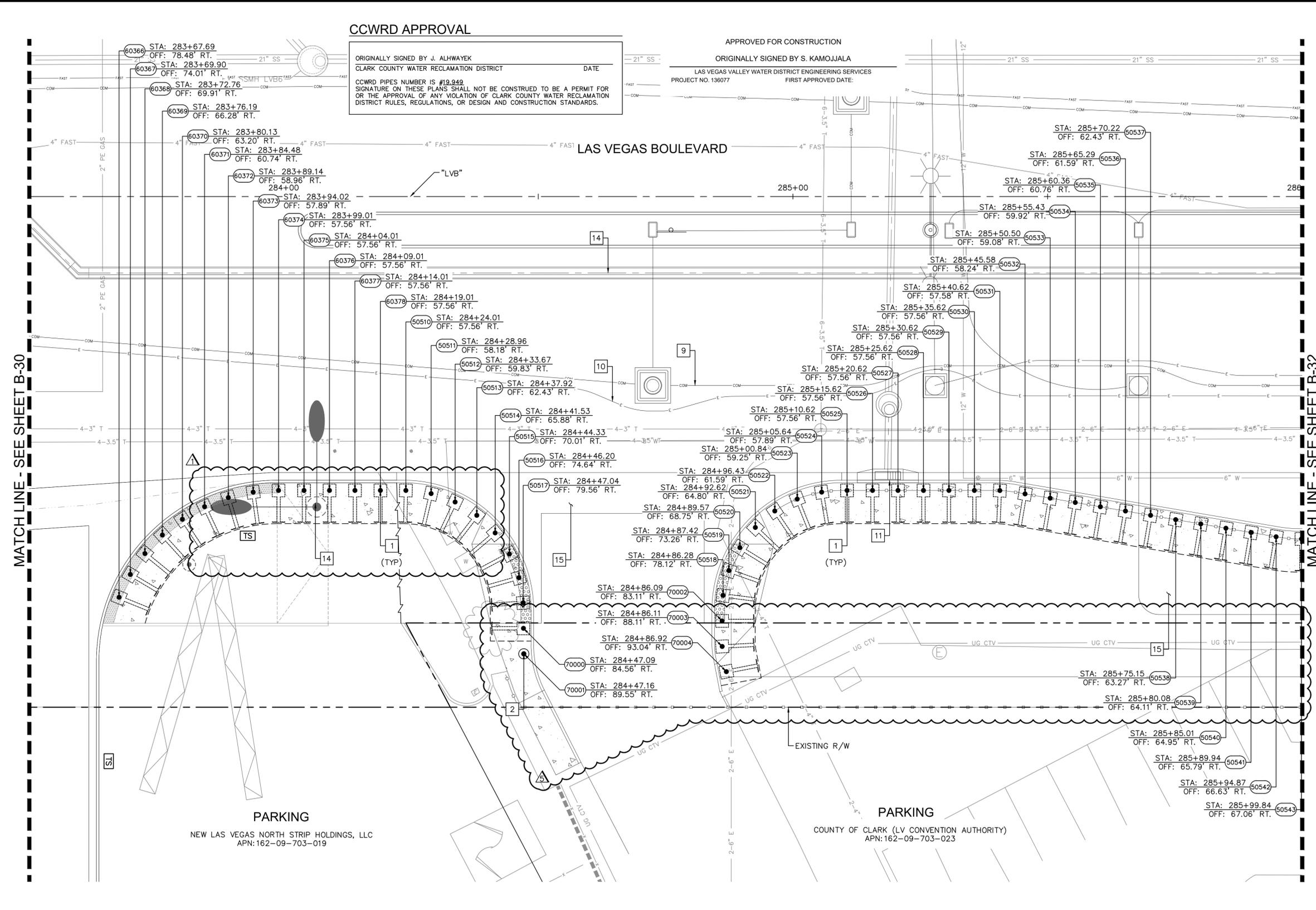
User: fernando.raz; Path: K:\L\LV_Public\Trans\092061_LCC\021-LVB_Roadway-Signal\CAD\Plan\092061\021-80L-30-33.dwg; This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE _____
 CCWRD PIPES NUMBER IS #19,949
 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.

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY S. KAMOJAJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: _____



KEY MAP
NTS

BOLLARD NOTES:

- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 2 INSTALL DRILLED FOOTING BOLLARDS PER DETAIL C ON SHEET DT-03
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 11 PROPOSED STORM DRAIN STRUCTURE, SEE SD SERIES
- 14 REFER TO RESORTS WORLD PLANS
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

FROM BOLLARD 60371 TO 60378 AND 50510 TO 50514
 BOLLARDS TO BE CONSTRUCTED AT A HEIGHT OF 36". SEE DETAIL C.1 ON SHEET DT-03.

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

NOTE:

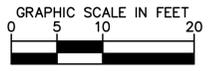
- 1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.
- 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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Call before you UnderGround
 1-702-432-5300
 PREVENT AND AVOID SYSTEM OF TRANSPORTATION



NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019
4	REVISED PER REVISION NO. 5	07/29/2020



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: FAR
 DATE: 07-29-2020

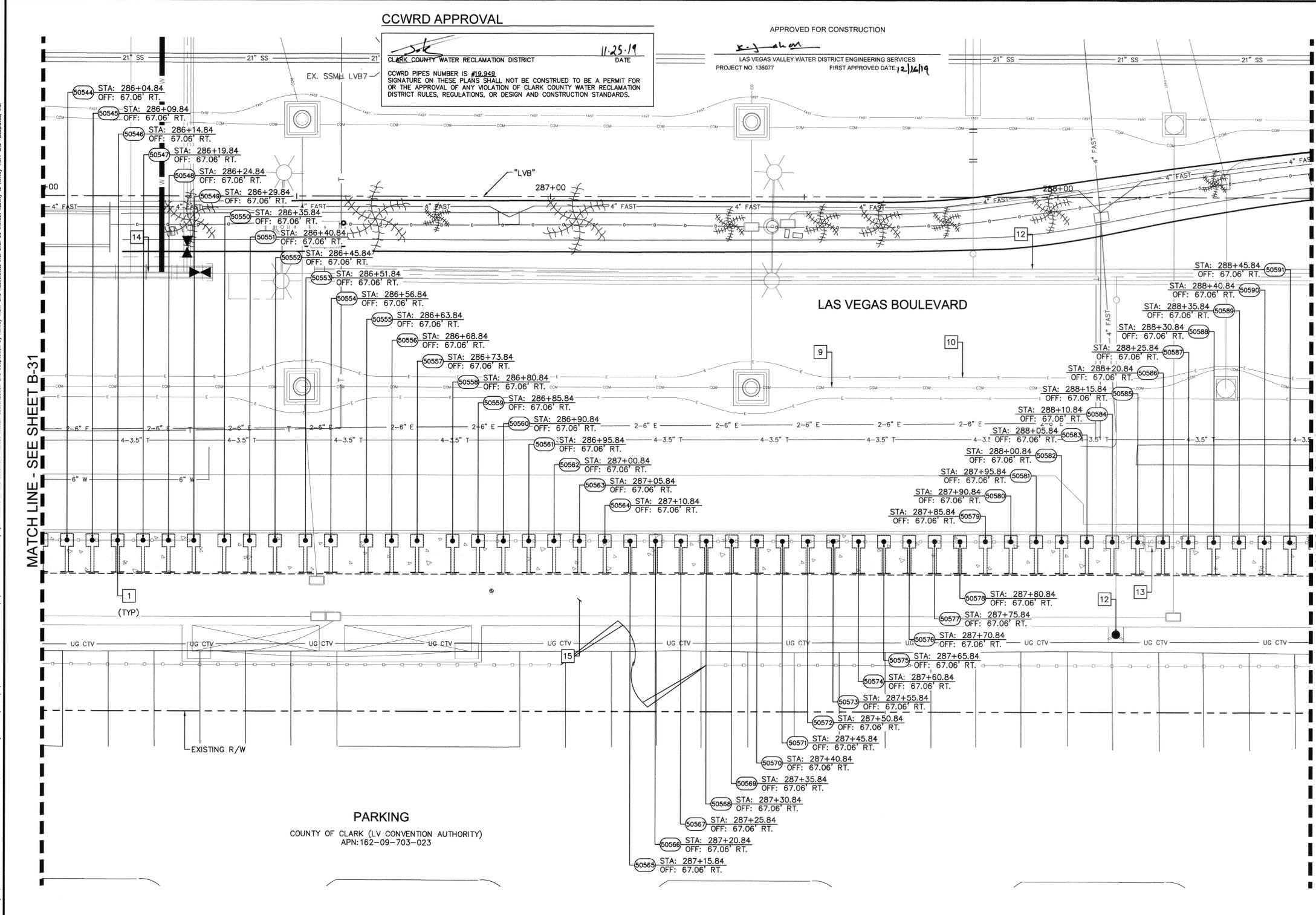
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-3600

SCALE	HORIZ: 1" = 10'	SHEET No	B-31
	VERT: N/A		
FIELD BOOK	NONE		
			SHEET 86 OF 345
			L-2210

ISSUED FOR CONSTRUCTION

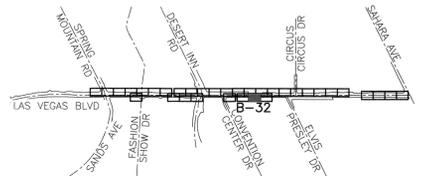
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



CCWRD APPROVAL
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES NUMBER IS #19,949
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APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19



KEY MAP
 NTS

- BOLLARD NOTES:**
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
 - 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
 - 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
 - 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
 - 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
 - 14 REFER TO RESORTS WORLD PLANS
 - 15 PROPOSED CONSTRUCTION, SEE C SERIES

FROM BOLLARD 50484 TO 50493
 BOLLARDS ARE NOT 5 FEET ON CENTER. SEE STATION AND OFFSET FOR LOCATION

EXPANSION JOINT
 INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
 2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

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UnderGround
 Call Before You Dig
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GRAPHIC SCALE IN FEET
 0 5 10 20

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PROTECTION PLANS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: FAR
 DATE: 11-15-2019

Kimley Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-3600

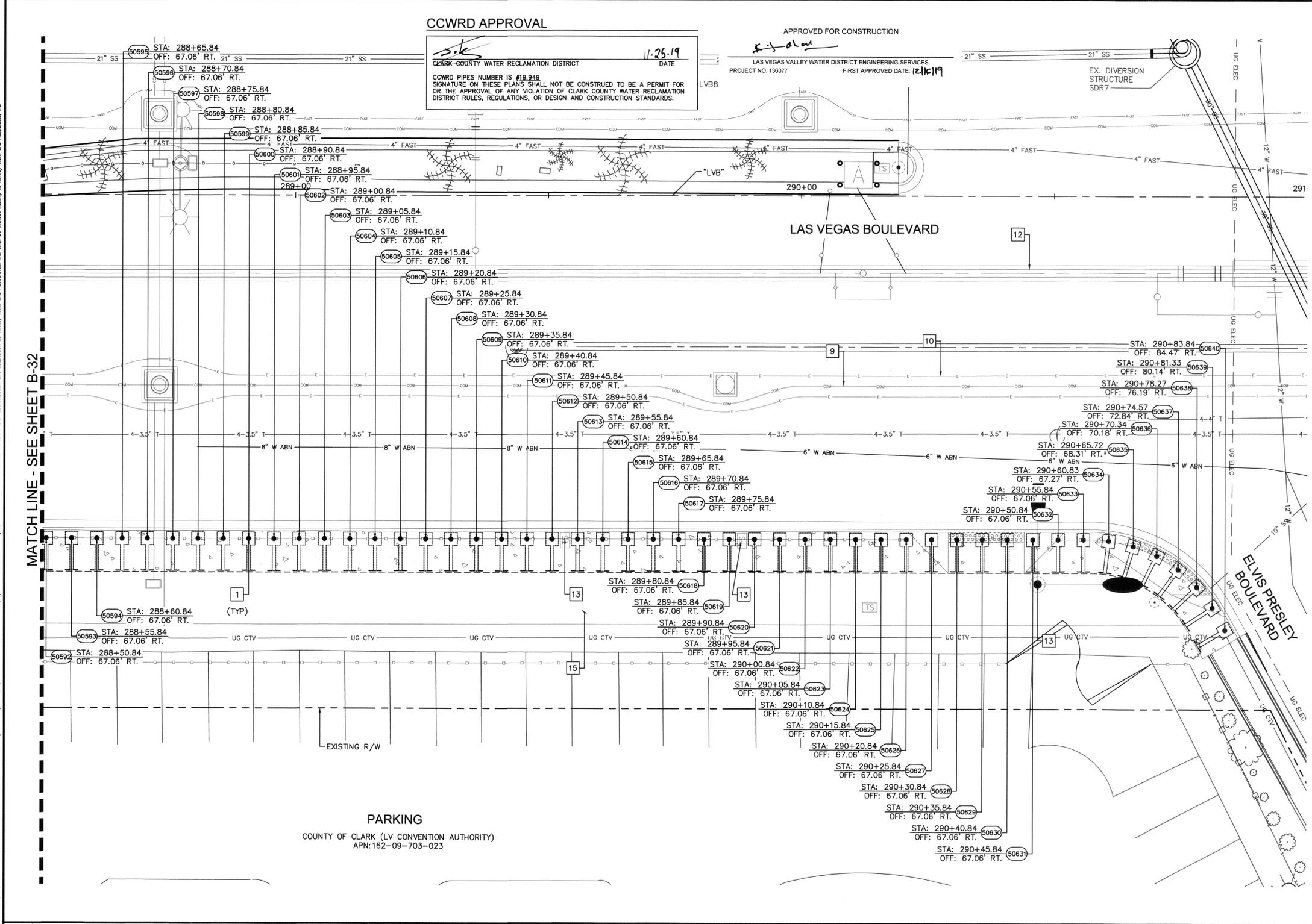
SCALE	SHEET NO.
HORIZ: 1" = 10'	B-32
VERT: N/A	SHEET 87 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.razo
 Path: K:\LAV_Public\Trans\092019_LCC\01-LVB_Roadway-Signal\CAD\Plan\sheet\09201901-80L-30-33.dwg
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BID NO.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



CCWRD APPROVAL

APPROVED FOR CONSTRUCTION

11-25-19 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

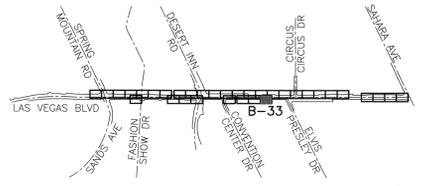
CCWRD PIPES NUMBER IS #19-243

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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136077

FIRST APPROVED DATE 12/16/19



KEY MAP

NTS

BOLLARD NOTES:

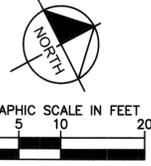
- 1 INSTALL SHALLOW MOUNT BOLLARDS PER DETAIL A ON SHEET DT-01 AND DETAIL B ON SHEET DT-02
- 9 PROPOSED UNDERGROUND FIBER CONDUIT, SEE COM SERIES
- 10 PROPOSED UNDERGROUND ELECTRIC CONDUIT, SEE EL SERIES
- 12 PROPOSED WATER LINE OR STRUCTURE, SEE WT SERIES
- 13 PROPOSED TRAFFIC SIGNAL EQUIPMENT, SEE TS SERIES
- 15 PROPOSED CONSTRUCTION, SEE C SERIES

EXPANSION JOINT

INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER.

NOTE:

1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADI.
2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.



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UNION PACIFIC RAILROAD

Call Before You Dig
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MATCH LINE - SEE SHEET B-32

PARKING

COUNTY OF CLARK (LV CONVENTION AUTHORITY)

APN: 162-09-703-023

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019

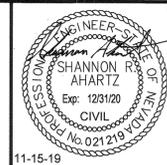


LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

PEDESTRIAN PROTECTION PLANS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC

DRAWN BY: BAC

CHECKED BY: FAR

DATE: 11-15-2019

Kimley Horn

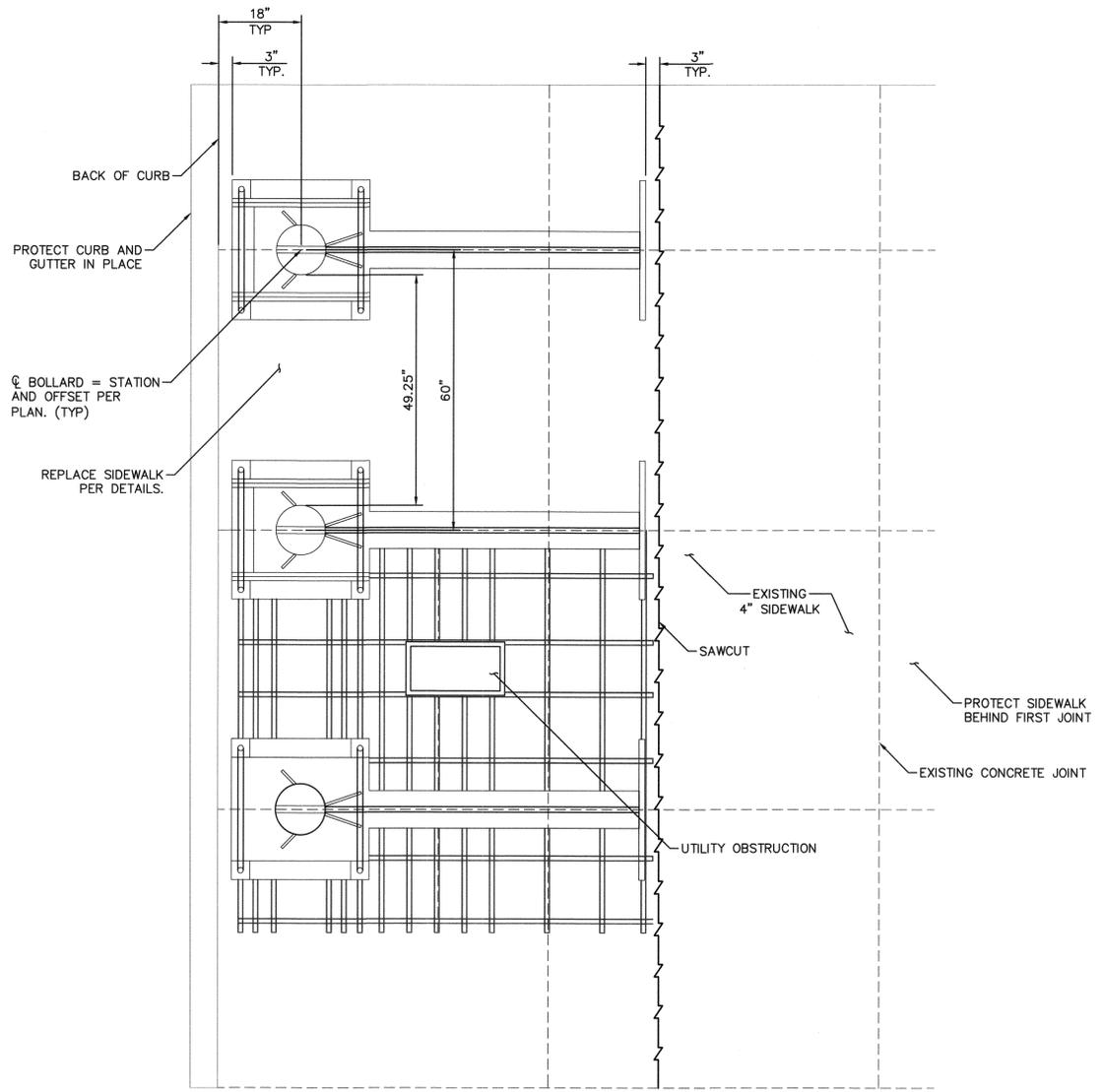
6671 Las Vegas Boulevard South Suite 320
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SCALE	SHEET NO.
HORIZ: 1" = 10'	B-33
VERT: N/A	SHEET 88 OF 345
FIELD BOOK: NONE	L-2210

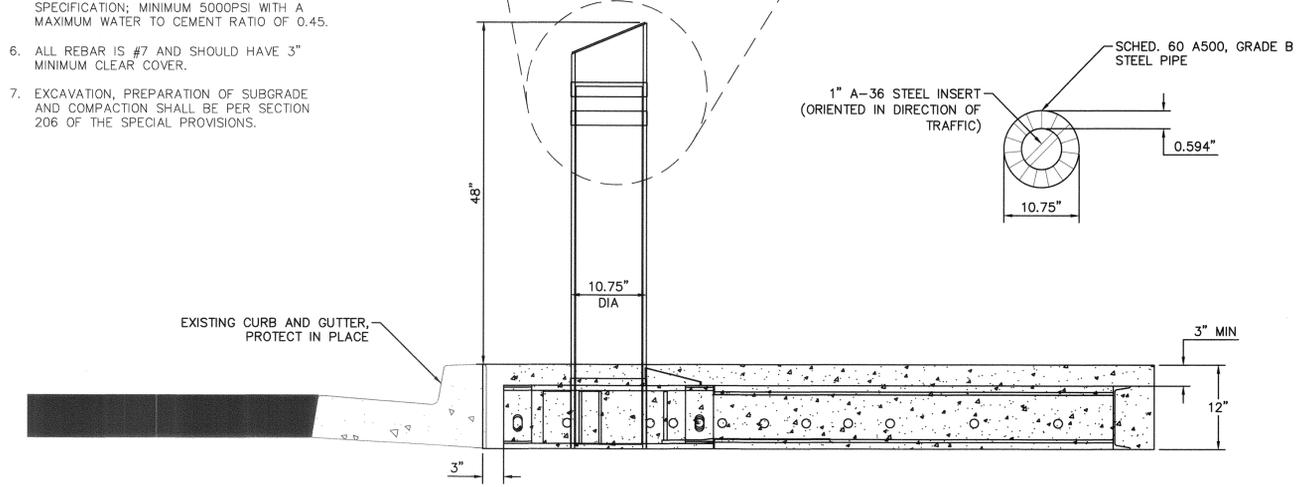
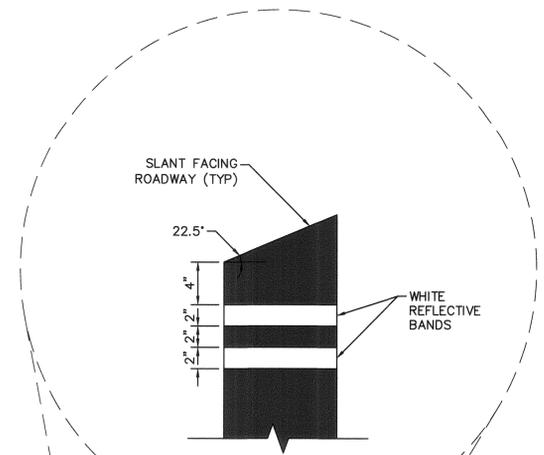
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User: fernando.raz... Path: K:\AV_Public\Trans\092061\CC\021-LVB_Roadway-Signal\CAV\Plan\sheet\092061021-B01-30-33.dwg / This document, together with the contracts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Review of our drawings without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

BID NO.: 605203-19



- NOTES:**
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. SEE DETAIL B FOR ADDITIONAL BOLLARD FRAME AND CONNECTION DETAILS.
 5. ALL CONCRETE SHALL BE PER SPECIFICATION; MINIMUM 5000PSI 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.



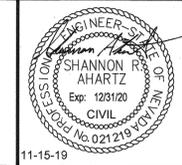
A SHALLOW MOUNT BOLLARD
TYPICAL INSTALLATION AND FINISH NTS

APPROVED FOR CONSTRUCTION
[Signature]
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 138077 FIRST APPROVED DATE: 12/16/19

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

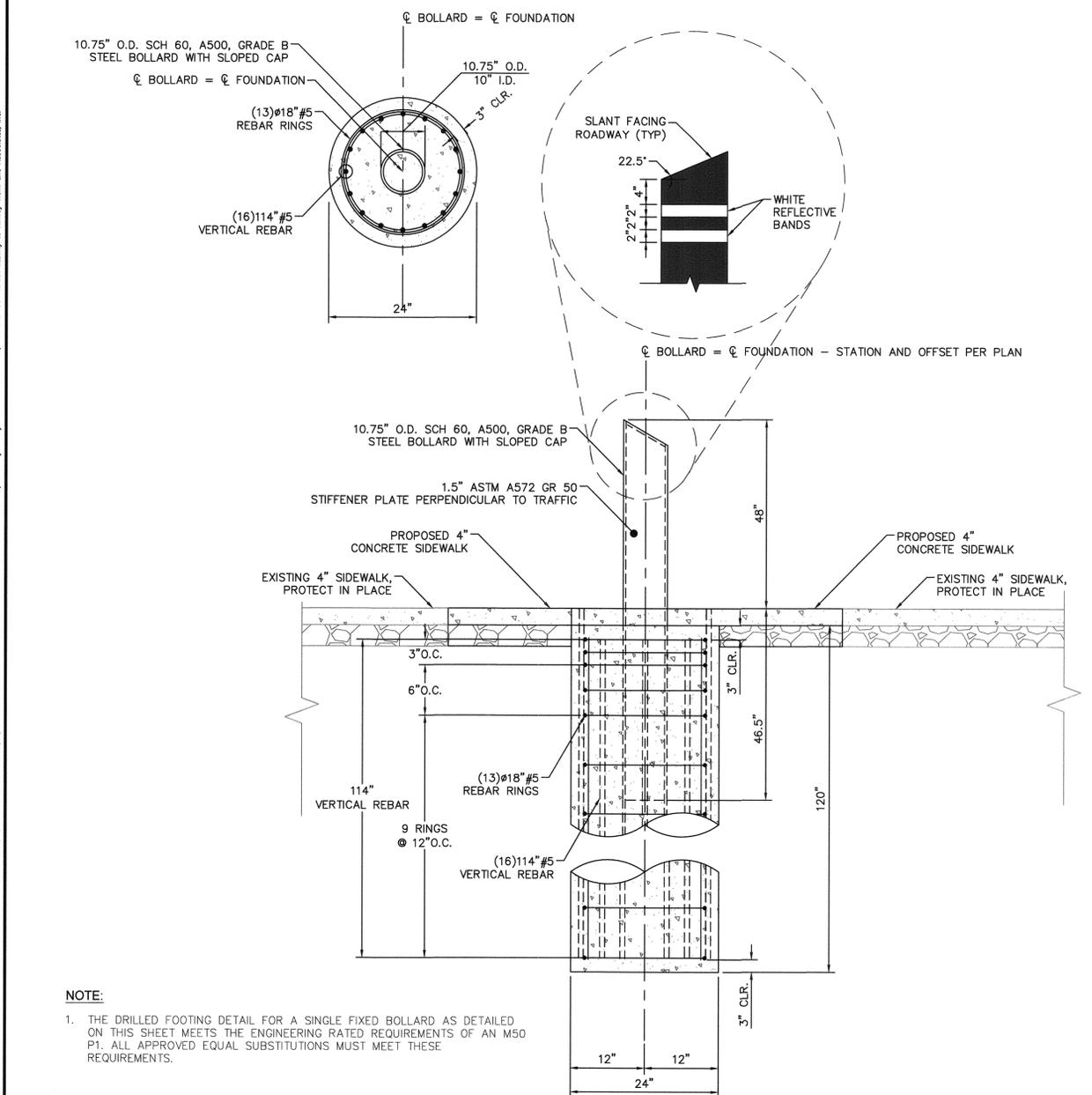


DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley»Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	HORIZ: N/A	SHEET No
	VERT: N/A	DT-01
FIELD BOOK	NONE	SHEET 89 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

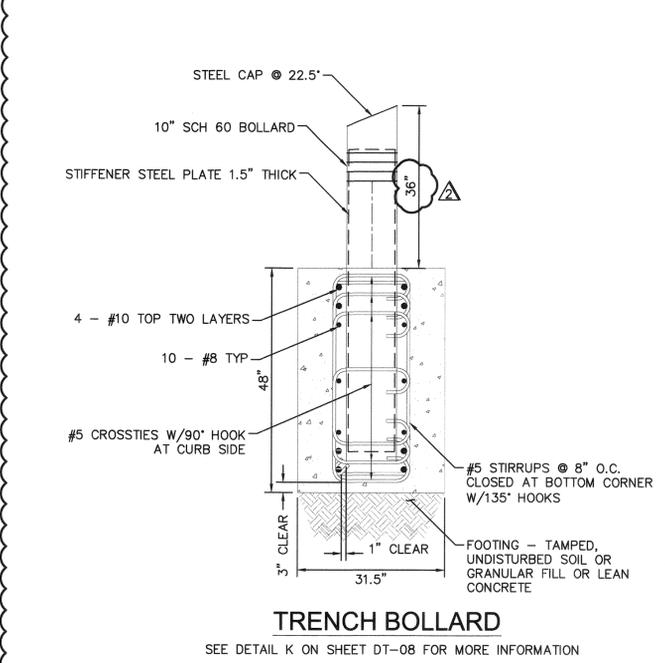
User: fernando.roz@lvwd.com Path: K:\nv_publications\092061021-01-03.dwg / This document, together with the contents and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



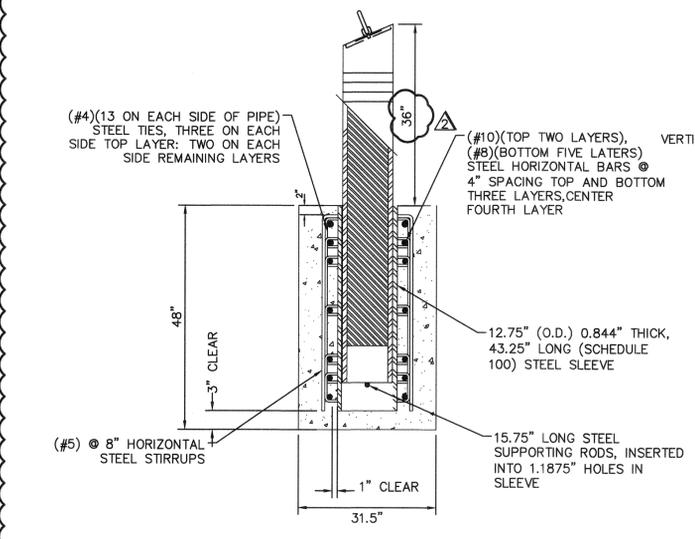
NOTE:
 1. THE DRILLED FOOTING DETAIL FOR A SINGLE FIXED BOLLARD AS DETAILED ON THIS SHEET MEETS THE ENGINEERING RATED REQUIREMENTS OF AN M50 P1. ALL APPROVED EQUAL SUBSTITUTIONS MUST MEET THESE REQUIREMENTS.

C DRILLED FOOTING BOLLARD
 INSTALLATION DETAILS NTS

APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

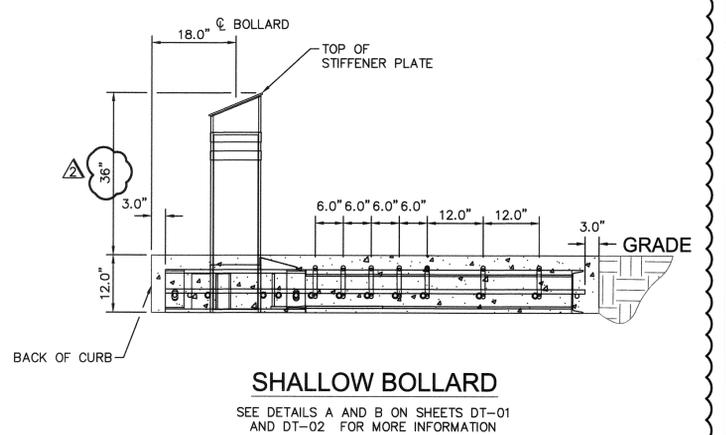


TRENCH BOLLARD
 SEE DETAIL K ON SHEET DT-08 FOR MORE INFORMATION

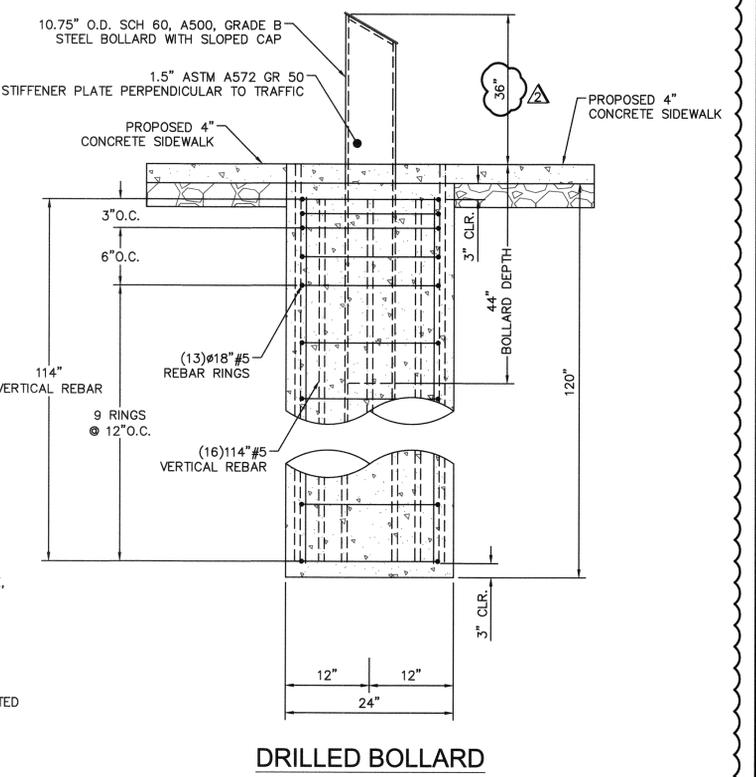


REMOVABLE BOLLARD
 SEE DETAIL L ON SHEET DT-08 FOR MORE INFORMATION

C.1 SHORT BOLLARDS
 INSTALLATION DETAILS NTS



SHALLOW BOLLARD
 SEE DETAILS A AND B ON SHEETS DT-01 AND DT-02 FOR MORE INFORMATION



DRILLED BOLLARD

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 1	10/23/2019
3	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



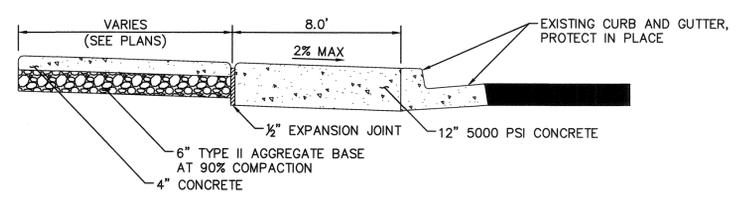
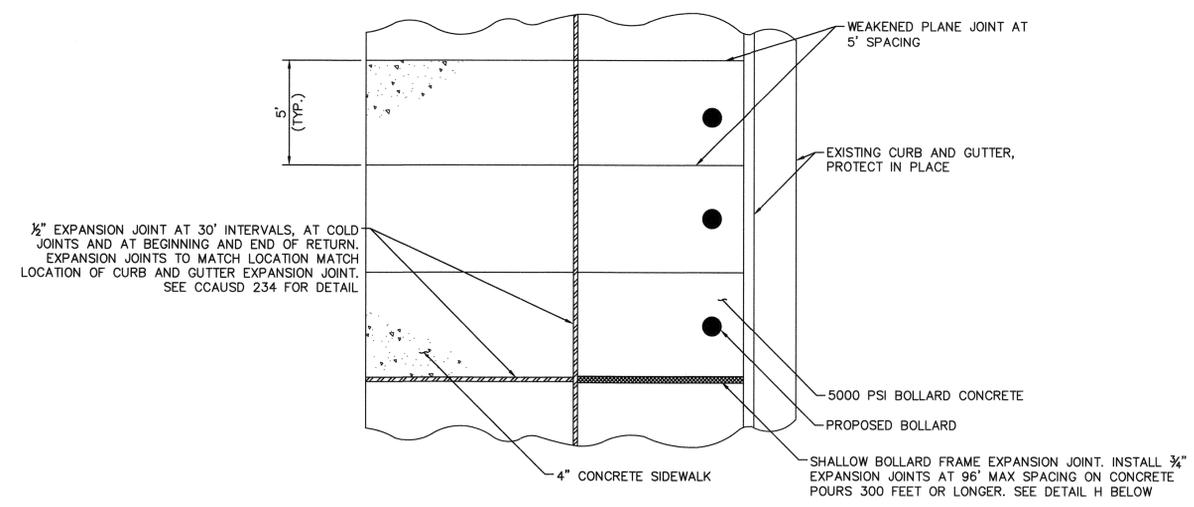
DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: N/A	DT-03
VERT: N/A	SHEET 91 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

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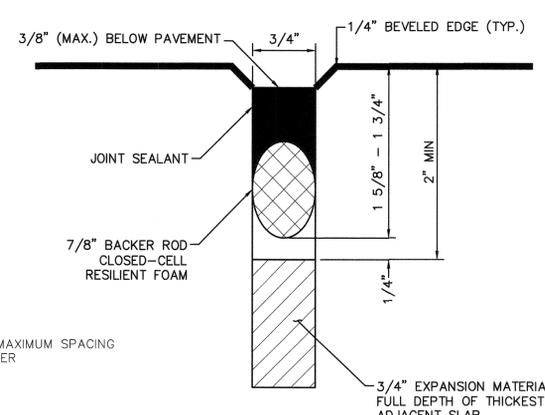
User: fernando.roaz Path: K:\New_publications\092019\021-1b_roadway-signal\CAD\plansheets\092019\021-04.dwg / This document, together with the concrete and design presented herein, is intended only for the specific purpose and client for which it was prepared. Please read and understand the entire document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



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 LIP SHALL BE 0" - 1/2" ABOVE PROPOSED CURB AND GUTTER

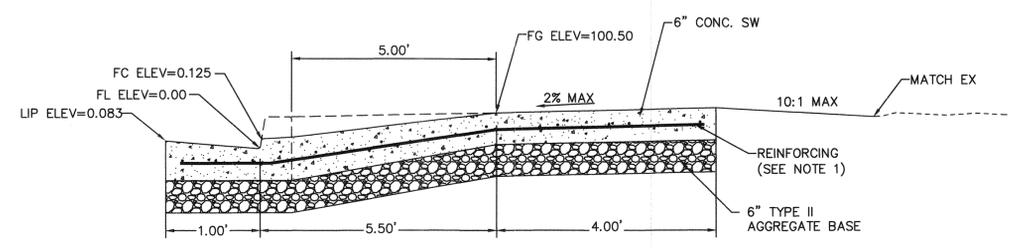
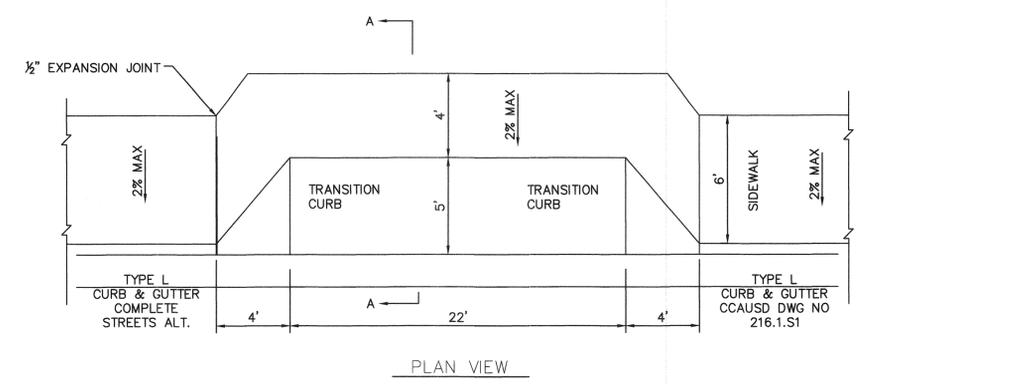
D CONCRETE SIDEWALK
TYPICAL INSTALLATION AND FINISH NTS



NOTES:

- INSTALL EXPANSION JOINTS AT 96 FEET MAXIMUM SPACING ON CONCRETE POURS 300 FEET OR LONGER

F BOLLARD FRAME EXPANSION JOINT
TYPICAL INSTALLATION AND FINISH NTS



SECTION A-A
NOTE: ELEVATIONS SHOWN ARE TYPICAL

NOTES:

- 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
- 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
- WEAKENED PLANE JOINTS SHALL BE EQUALLY SPACED AT 15' MAX. INTERVALS, SEE STANDARD DRAWING NO. 234

E CONCRETE COMMERCIAL DRIVEWAY
TYPICAL INSTALLATION AND FINISH NTS

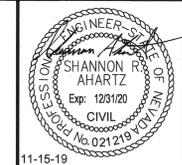
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY:	BAC
DRAWN BY:	BAC
CHECKED BY:	SRA
DATE:	11-15-2019

SCALE	HORIZ: N/A	SHEET No	DT-04
	VERT: N/A		
FIELD BOOK	NONE		
SHEET 92 OF 345			
L-2210			

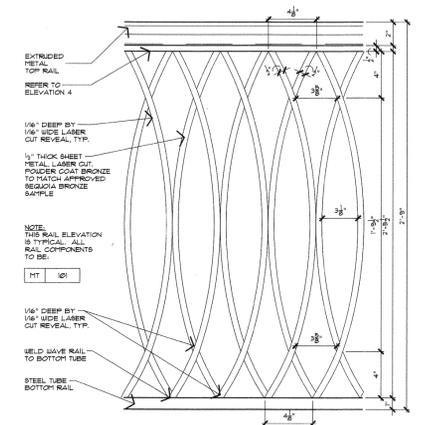
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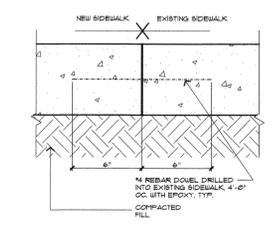
GENERAL NOTES

- BRONZE POWDER COAT TO MATCH APPROVED 'REGGIA' BRONZE SAMPLES. CONTRACTOR TO PROVIDE 'REGGIA' BRONZE SAMPLES TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- WALKING CONTRACTOR TO PROVIDE SHOP DRAWINGS TO INCLUDE STRUCTURAL CALC. ATTACHMENT DETAILS MOUNTING CONDITIONS FOOTING DESIGN, WELDED CONNECTIONS AND FIRE DEPARTMENT ACCESS POINTS.
- ANY BOLLARDS TO BE COMPLETED, UNLESS AND FILLED TO MATCH THE PARENT MATERIAL PRIOR TO POWDER COATING.
- FIELD VERIFY BRACE AT EACH LOCATION AND ADJUST SCAFFOLDING BARS TO MAINTAIN TRUE VERTICAL. ALL POSTS TO BE VERTICAL.
- POST BRACES TO BE FIELD ADJUSTED & TRIMMED TO COMPENSATE FOR SIDEWALK SLOPE SO AS TO FIT TIGHT TO BRACING.
- PROVIDE FINAL ATTACHMENT DESIGN TO ENSURE IT IS NOT REMOVABLE DUE TO VANDALISM.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AT ALL AREAS WHERE RAILINGS OR ANY TYPE ARE TO BE INSTALLED. IN AREAS WHERE THE STANDARD 6'-0" BETWEEN POSTS IS NOT FEASIBLE THEN CONTRACTOR SHALL DIVIDE THE POSTS TO BE INSTALLED SQUARELY WITH SECTIONS AS CLOSE AS BUT NOT TO EXCEED THE 6'-0" DIMENSION.
- CONCRETE STRENGTH SHALL BE TO EXCEED PER UNIT A MINIMUM W/C RATIO OF 0.45.
- GENERAL CONTRACTOR TO PROVIDE A HOOK UP OF FENCE FOR APPROVAL PRIOR TO FABRICATION AND TO BE INTEGRATED INTO FENCE.
- BE NOTABLE AND COORDINATE WITH CIVIL ENGINEER FOR UNDERGROUND UTILITY CONFLICTS AND RELOCATIONS.
- DIAMETRIC DETAILS TO BE ISOLATED.
- PROVIDE BOLTED ATTACHMENT METHOD WHERE FENCE SECTION IS INDICATED TO BE REMOVABLE.

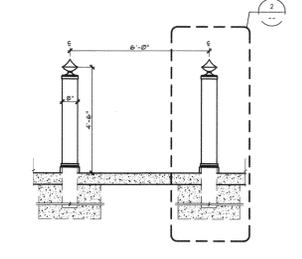
NOTE:
 THE DETAILS SHOWN HEREON ARE THE PRODUCT OF THE BUTLER ASHWORTH ARCHITECTS LTD, WHO IS SOLELY RESPONSIBLE FOR THEIR DESIGN, CONTENT, AND ANY SPECIFICATIONS OR OTHER INFORMATION REFERENCED THEREIN.



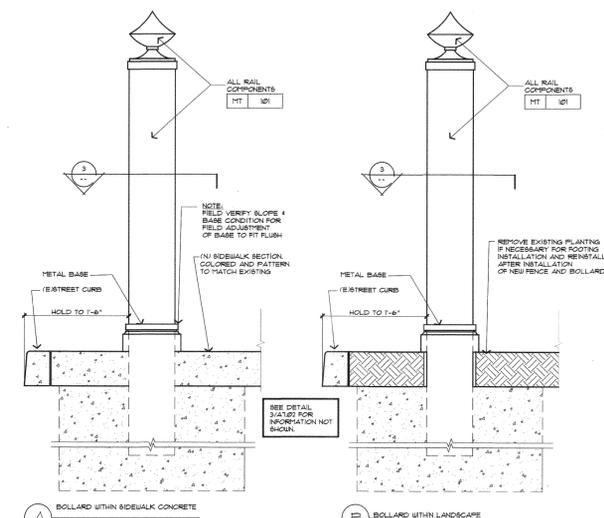
ENLARGED ELEVATION
 SCALE: 3" = 1'-0"



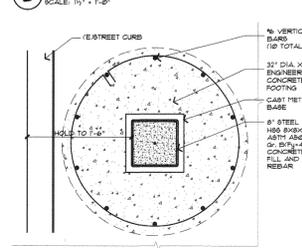
SECTION
 SCALE: 3" = 1'-0"



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



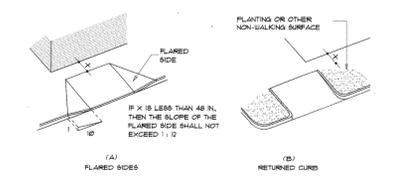
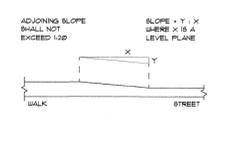
BOLLARD DETAIL
 SCALE: 1/2" = 1'-0"



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

A RAMP DIMENSIONS

SLOPE	MAXIMUM HORIZONTAL PROJECTION
1:2 TO 1:6	30" @ 30"
1:6 TO 1:20	30" @ 48"



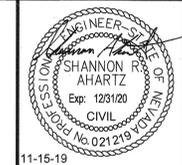
SECTION
 SCALE: 1/2" = 1'-0"

H CUSTOM BOLLARD DETAIL FOR WYNN
 TYPICAL INSTALLATION AND FINISH NTS

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: BAC
 DRAWN BY: BAC
 CHECKED BY: SRA
 DATE: 11-15-2019

Kimley Horn
 8871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: N/A	DT-05
VERT: N/A	SHEET 93 OF 345
FIELD BOOK: NONE	L-2210

PERMIT ISSUE - JUNE 15, 2018

Butler Ashworth Architects Ltd.
 734 Pilot Road
 Las Vegas, Nevada 89119
 (702) 770-5000 Fax: (702) 770-5006

Wynn + Resorts - SITE FENCE ADDITION
 MISC. DETAILS

DATE: JUNE 15, 2018

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No. 605203-19

ISSUED FOR CONSTRUCTION

User: fernando.coz
 Path: K:\p\public\092061\cc\021-14b_roadway-signal\CAD\plansheets\092061021-DT-06.dwg /
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STRUCTURAL GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE AS AMENDED BY THE COUNTY OF LAS VEGAS.
- STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT SPECIFY THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO PROTECT THE STRUCTURE, AND ANY ADJACENT NEW OR EXISTING STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING FOR LOADS ACTING ON THE STRUCTURE DURING CONSTRUCTION. OBSERVATION BY THE STRUCTURAL ENGINEER DURING CONSTRUCTION WILL NOT INCLUDE INSPECTION OF AFOREMENTIONED BRACING AND SHORING.
- EXISTING CONDITIONS ARE SHOWN TO THE BEST OF OUR KNOWLEDGE. DISCREPANCIES SHALL PROMPTLY BE REPORTED TO THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, WHICH MAY BE AFFECTED BY ITS WORK. INTERFERENCES WITH THE STRUCTURE SHALL PROMPTLY BE REPORTED TO THE ARCHITECT/ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND VERIFYING ALL DIMENSIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL STRUCTURAL DISCREPANCIES, AND THESE DISCREPANCIES SHALL BE RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
- SHOULD A DISCREPANCY OCCUR ON THE DRAWINGS BETWEEN ANY PROJECT SPECIAL NOTES/SPECIAL DETAILS, AND THE TYPICAL SPECS/TYPICAL DETAILS, SAID SPECIAL NOTES/SPECIAL DETAILS SHALL TAKE PRECEDENCE. DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.
- PENETRATIONS AND OPENINGS WITH ANY DIMENSION GREATER THAN 2" THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE PROHIBITED UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO PENETRATION SHALL BE ALLOWED THROUGH ANY STRUCTURAL MEMBER WITHOUT THE APPROVAL OF THE ENGINEER.
- ANY CONSTRUCTION MATERIAL THAT IS TEMPORARILY PLACED ON FLOOR AND/OR ROOF FRAMING SHALL BE DISTRIBUTED OVER THE FRAMING SYSTEM SUCH THAT THE CONSTRUCTION LOAD DOES NOT EXCEED THE LOAD THAT THE FRAMING SYSTEM WAS DESIGNED FOR.
- DESIGN CRITERIA -

A. DESIGN LIVE LOADS	= 1 KIP IN ANY DIRECTION
1. VEHICLE IMPACT	
B. WIND	
BASIC WIND SPEED	120 MPH
Kzt	1.0
EXPOSURE CATEGORY	B
PRIMARY FRAME DESIGN METHOD	METHOD 2 (ANALYTICAL)
BUILDING CLASSIFICATION	ENCLOSED
C. SEISMIC	
OCCUPANCY CATEGORY	III
SITE CLASS	D
S _{ds}	0.44 g
S _{d1}	0.23 g
SEISMIC DESIGN CATEGORY	D
IMPORTANCE FACTOR	1.25
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.
- THE GENERAL CONTRACTOR AND ITS SUBCONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS.

CONCRETE NOTES

- ALL CONCRETE UNLESS OTHERWISE NOTED SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CU.FT.).
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-05) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

LOCATION OF STRUCTURE	STRENGTH
FOOTING	2500 PSI
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II.
- AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
- CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR HIS REVIEW 2 WEEKS PRIOR TO POUR.
- CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
- PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 301 AND PROJECT SPECIFICATIONS.
- UNLESS OTHERWISE NOTED ON THE PLANS, MINIMUM CLEAR COVERAGE OF NEW CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:

A. CONCRETE POURED DIRECTLY AGAINST EARTH.....	3" CLEAR TO REINFORCING
B. WALL FACES:	
EXPOSED TO EARTH WITH FORMED SURFACES OR EXPOSED TO WEATHER.....	1-1/2" CLEAR FOR #5 BAR & SMALLER
2" CLEAR FOR #6 BARS & LARGER	
INTERIOR FACES.....	3/4" CLEAR
C. BEAMS AND COLUMNS:	
NOT EXPOSED TO EARTH OR WEATHER.....	1-1/2" CLEAR TO STIRRUPS & TIES
FORMED AND EXPOSED TO EARTH OR WEATHER.....	1 1/2" CLEAR TO STIRRUPS & TIES
STRUCTURAL SLABS.....	1" CLEAR AT TOP AND BOTTOM
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, EQUIPMENT PADS, ETC., SHALL BE FORMED WITH 3/4" CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- CONDUIT OR PIPE SIZE (O.D.) THAT IS BURIED IN ANY CONCRETE SLABS SHALL NOT EXCEED 25 PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED.
- DO NOT USE CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS.
- ALL ROUGHENED SURFACES IN CONCRETE SHALL BE MADE WITH A MINIMUM AMPLITUDE OF 1/4"
- NO ADDITIONAL WATER IS ALLOWED IN THE CONCRETE MIX AT THE SITE.

REINFORCING STEEL NOTES

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-05), THE CRSI "MANUAL OF STANDARD PRACTICE," AND THE "ACI DETAILING MANUAL (SP-66) AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
- REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 REQUIREMENTS. #4 AND SMALLER BARS MAY BE GRADE 40.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- DOWELS BETWEEN FOOTING AND WALL OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING, AND NUMBER AS THE VERTICAL REINFORCING RESPECTIVELY, U.O.N.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL SUBMIT REINFORCING BAR LAYOUTS AND DETAILS FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION. FABRICATE FROM REVIEWED DRAWINGS ONLY.
- REINFORCING BARS SHALL BE AS LONG AS PRACTICABLE AND AS DETAILED AND SHALL BE LAPPED AT SPLICES AND CORNERS NOT LESS THAN 32 BAR DIAMETER (24" MINIMUM), UNLESS OTHERWISE SHOWN. STAGGER HORIZONTAL WALL BAR SPLICES. IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. IN BEAMS AND SLABS, SPLICE TOP BARS AT MID-SPAN, BOTTOM BARS OVER SUPPORTS, UNLESS OTHERWISE SHOWN.
- EMBEDDED METAL COMPONENTS MADE UP OF ALLOYS THAT ARE DIS-SIMILAR TO THAT OF THE REINFORCING STEEL SHALL NOT BE ATTACHED DIRECTLY TO REINFORCING. MEASURES SHALL BE TAKEN TO ELECTRICALLY ISOLATE SAID COMPONENTS FROM ANY REINFORCING TO PREVENT CATHODIC EFFECTS.

FOUNDATION NOTES

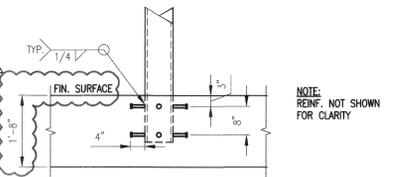
- THE FOUNDATION DESIGN WAS BASED ON THE ASSUMPTIONS PRESENTED BELOW IN THE ABSENCE OF A SOILS REPORT:

ALLOWABLE SOIL BEARING PRESSURE	= 1000 PSF
ALLOWABLE PASSIVE EARTH RESISTANCE	= 100 PCF
FRICITIONAL RESISTANCE	= 0.25 x DEAD LOAD
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS. FLOODING IS PROHIBITED.
- CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE.
- SOIL DESIGN PARAMETERS CAN BE INCREASED BY 1/3 FOR IMPACT LOADS.

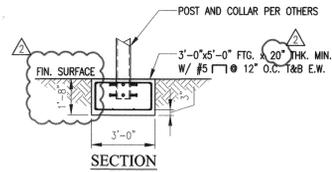
SPECIAL INSPECTION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK, AS REQUIRED BY THE BUILDING CODE OF THE COUNTY OF CLARK, BE MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND THE CONTRACTOR SHALL PAY FOR RE-INSPECTION.
- THE FOLLOWING IS A SUMMARY OF THE SPECIAL INSPECTION REQUIREMENTS:

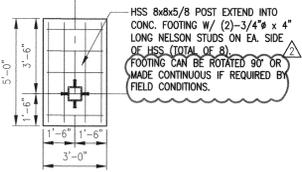
CONCRETE	NO PER IBC 1704.4.2.3, DESIGN BASED ON 2,500 PSI CONCRETE
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NELSON STUD TO HSS CONNECTION



SECTION



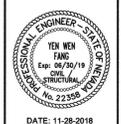
PLAN VIEW

1 FOOTING DETAIL
NO SCALE

NOTE:
THE DETAILS SHOWN HEREON ARE THE PRODUCT OF THE ENGINEERING PARTNERS WHO IS SOLELY RESPONSIBLE FOR THEIR DESIGN, CONTENT, AND ANY SPECIFICATIONS OR OTHER INFORMATION REFERENCED THEREIN.



ENGINEERING PARTNERS
4775 W. Tevo Ave. Ste 255
Las Vegas, Nevada 89118
Main (702) 931-3000
www.epinc.pro
Hawaii | Las Vegas



DATE: 11-28-2018

STRUCTURAL GENERAL NOTES AND DETAIL

DATE:	OCTOBER, 2018	REV.	
REV.	NOVEMBER, 2018	REV.	
REV.	DECEMBER, 2018	REV.	

FOOTING DETAIL FOR:
WYNN LAS VEGAS
3131 S. LAS VEGAS BLVD.
LAS VEGAS, NEVADA 89109

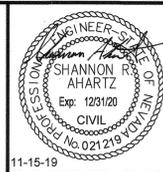
DRAWN BY:	KKC	DESIGNED BY:	MAF
CHECKED BY:	MAF	QC'D BY:	YWF
JOB NO.	28000-18-25		
DWG. NO.	SK-1		
SHEET NO.	01 OF 01		

1 CUSTOM BOLLARD DETAIL FOR WYNN
TYPICAL INSTALLATION AND FINISH NTS

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



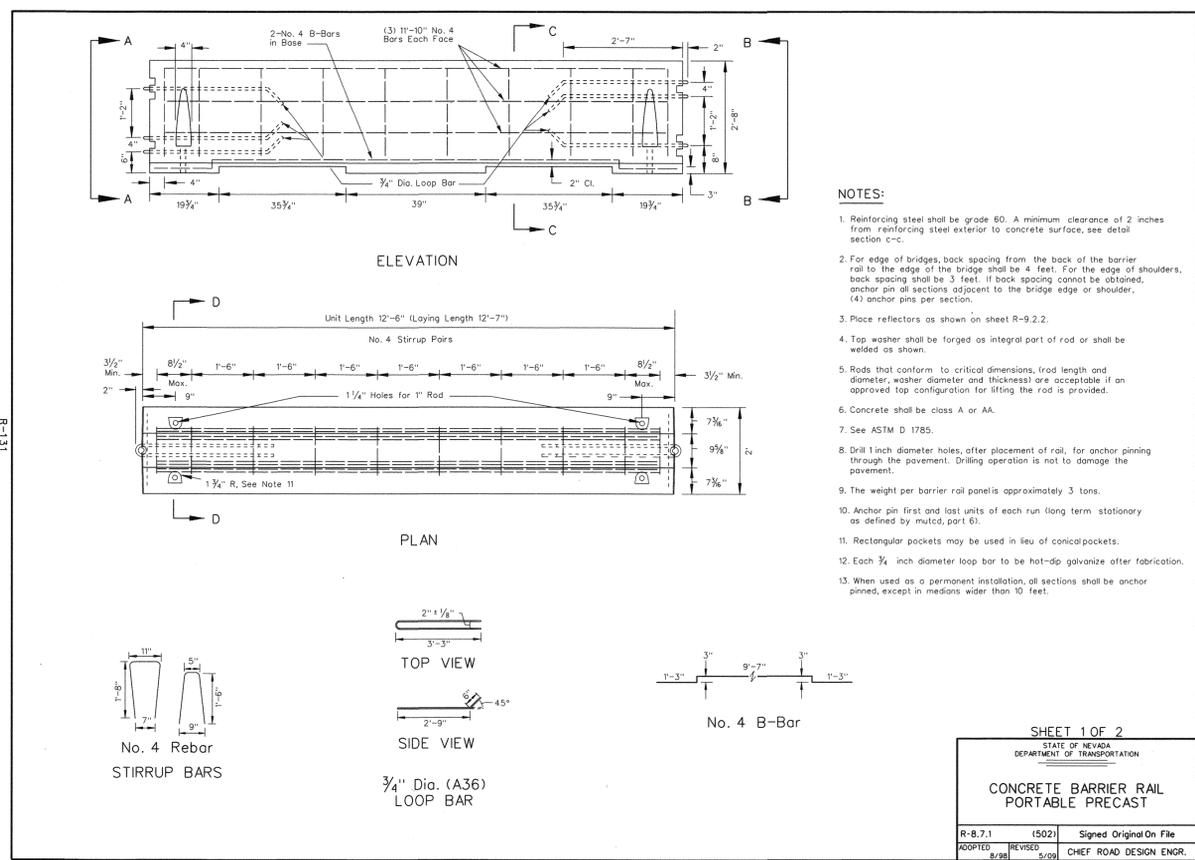
DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	HORIZ: N/A	SHEET No	DT-06
	VERT: N/A		
FIELD BOOK	NONE		SHEET 94 OF 345
			L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No.: 605203-19



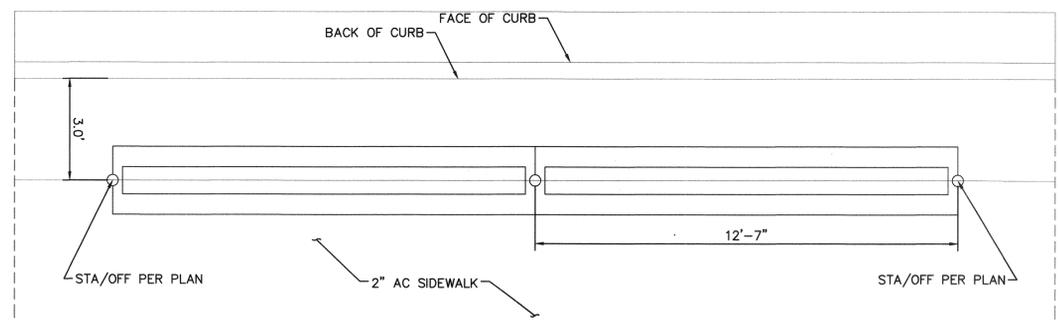
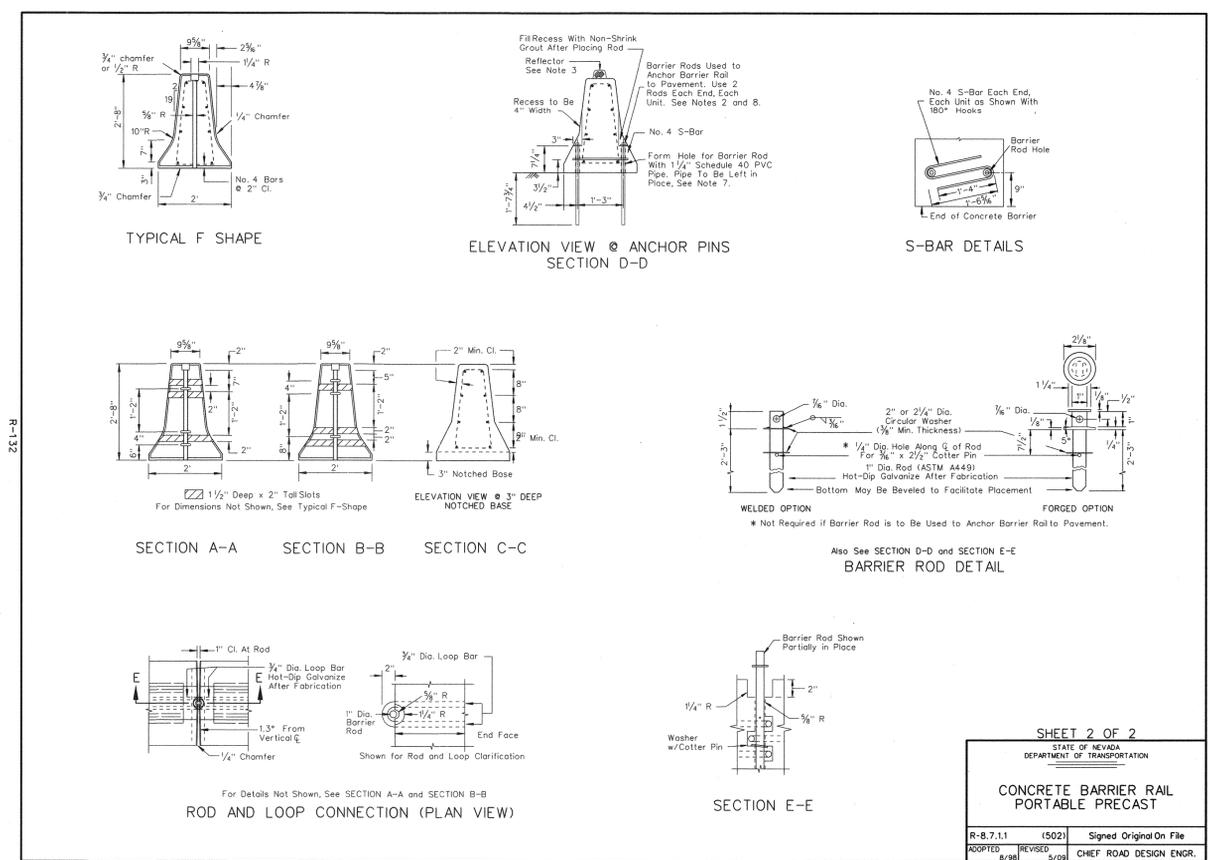
- NOTES:**
1. Reinforcing steel shall be grade 60. A minimum clearance of 2 inches from reinforcing steel exterior to concrete surface, see detail section c-c.
 2. For edge of bridges, back spacing from the back of the barrier rail to the edge of the bridge shall be 4 feet. For the edge of shoulders, back spacing shall be 3 feet. If back spacing cannot be obtained, anchor pin all sections adjacent to the bridge edge or shoulder, (4) anchor pins per section.
 3. Place reflectors as shown on sheet R-9.2.2.
 4. Top washer shall be forged as integral part of rod or shall be welded as shown.
 5. Rods that conform to critical dimensions, rod length and diameter, washer diameter and thickness are acceptable if an approved top configuration for lifting the rod is provided.
 6. Concrete shall be class A or AA.
 7. See ASTM D 1785.
 8. Drill 1 inch diameter holes, after placement of rail, for anchor pinning through the pavement. Drilling operation is not to damage the pavement.
 9. The weight per barrier rail panels is approximately 3 tons.
 10. Anchor pin first and last units of each run being stationary as defined by mutcd, part 61.
 11. Rectangular pockets may be used in lieu of conical pockets.
 12. Each 3/4 inch diameter loop bar to be hot-dip galvanized after fabrication.
 13. When used as a permanent installation, all sections shall be anchor pinned, except in medians wider than 10 feet.

SHEET 1 OF 2

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER RAIL
PORTABLE PRECAST

R-8.7.1	(502)	Signed Original On File
ADOPTED	REVISOR	CHEF ROAD DESIGN ENGR.



CONCRETE BARRIER RAIL
TYPICAL INSTALLATION AND FINISH NTS

APPROVED FOR CONSTRUCTION

[Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

SHEET 2 OF 2

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER RAIL
PORTABLE PRECAST

R-8.7.1	(502)	Signed Original On File
ADOPTED	REVISOR	CHEF ROAD DESIGN ENGR.

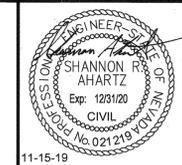
User: fernando.roz@clarkcountynv.gov Path: K:\New_publications\092061_cc\021-mb_roadway-signal\CA0\plansheets\092061\021-DT-07.dwg / This document, together with the concepts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

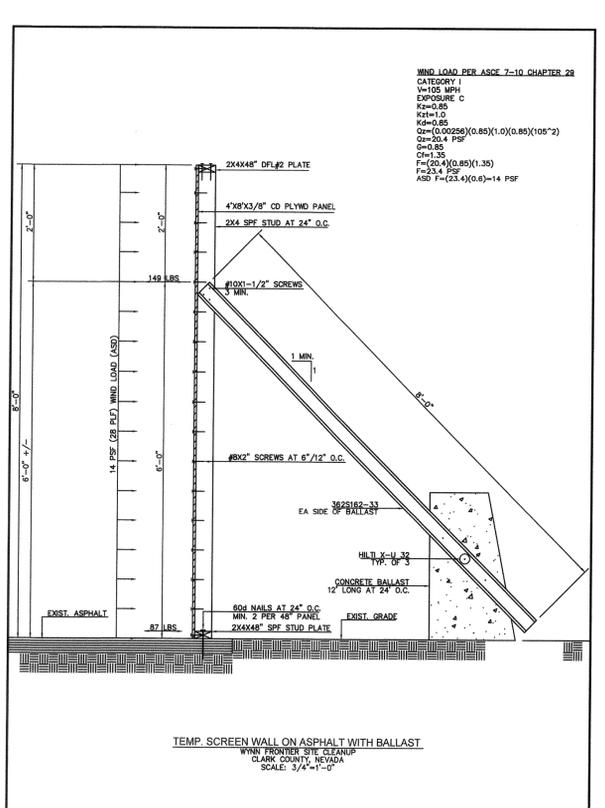
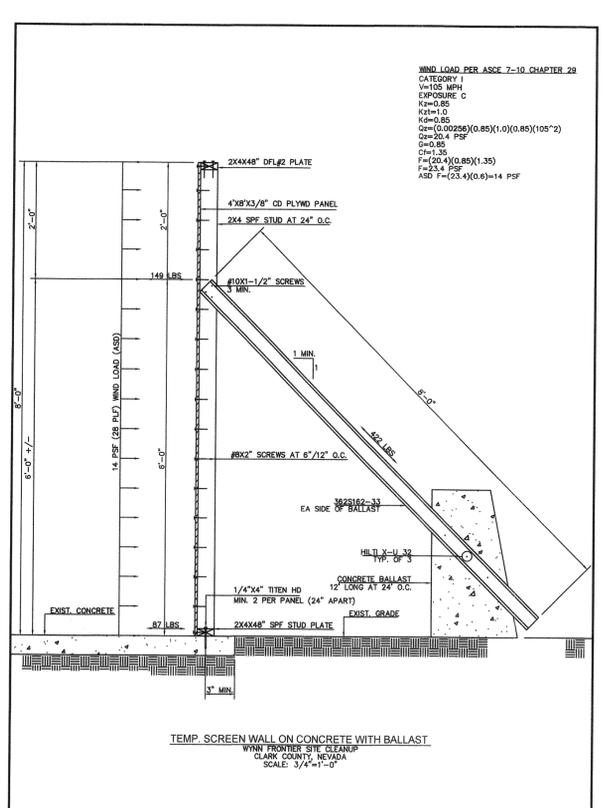
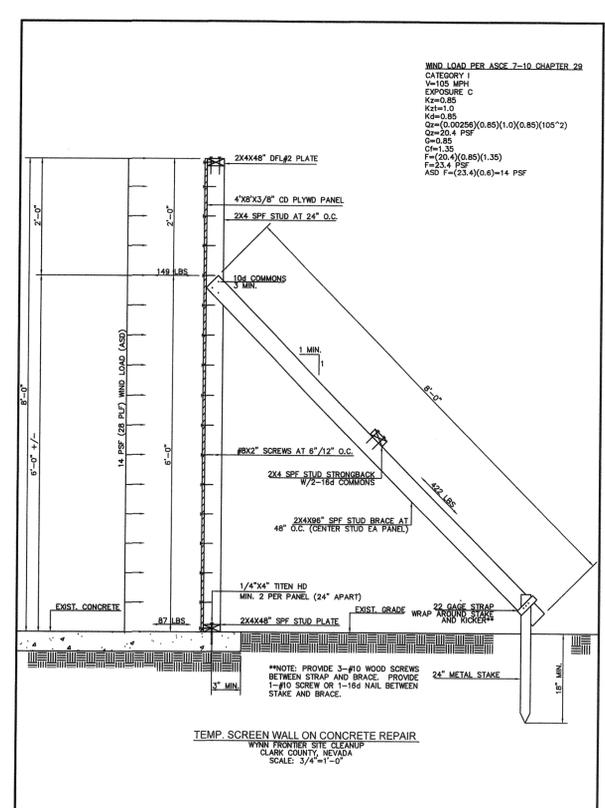
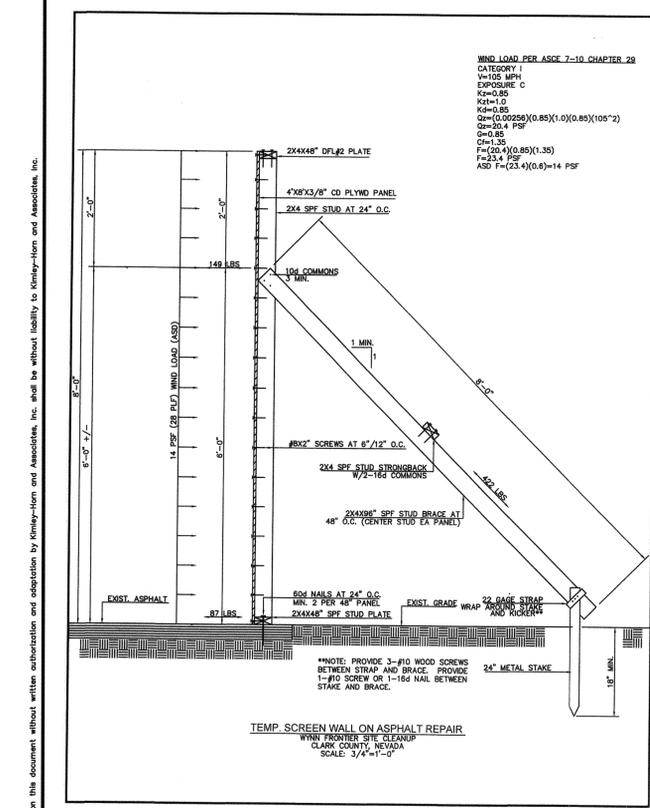


DESIGNED BY: BAC
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

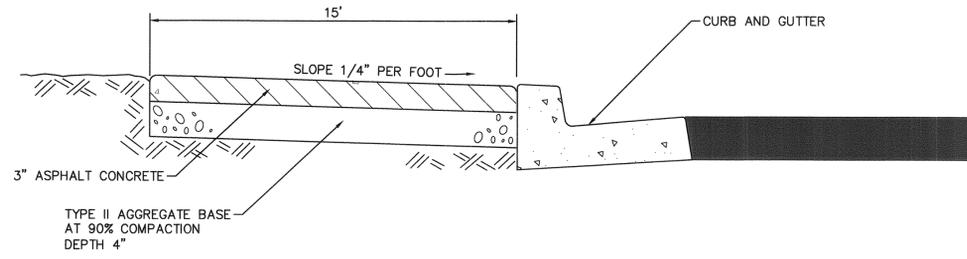
Kimley Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	HORIZ: N/A	VERT: N/A	FIELD BOOK: NONE	SHEET No: DT-07
				SHEET 95 OF 345
				L-2210

ISSUED FOR CONSTRUCTION



(M) TEMPORARY SCREEN WALL
TYPICAL INSTALLATION AND FINISH NTS



(N) ASPHALT CONCRETE SIDEWALK
TYPICAL INSTALLATION AND FINISH NTS

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/14/19

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: FAR
DRAWN BY: BAC
CHECKED BY: SRA
DATE: 11-15-2019

Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3800

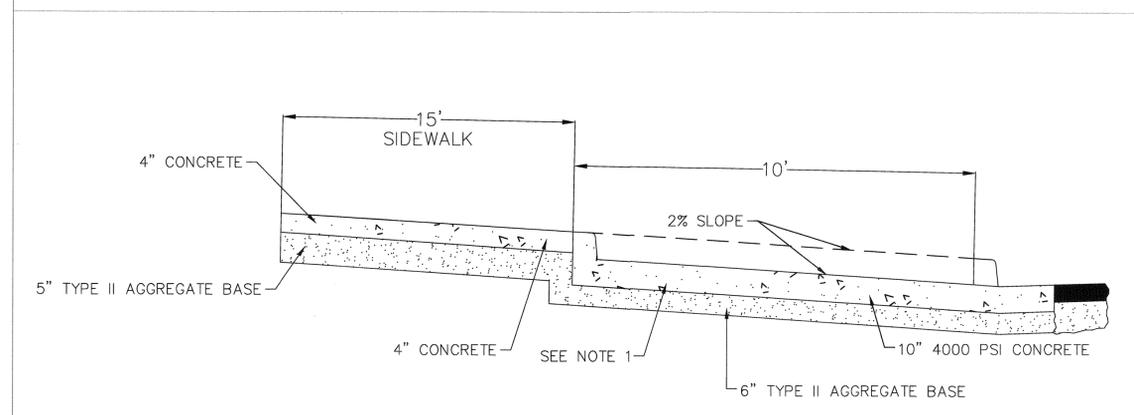
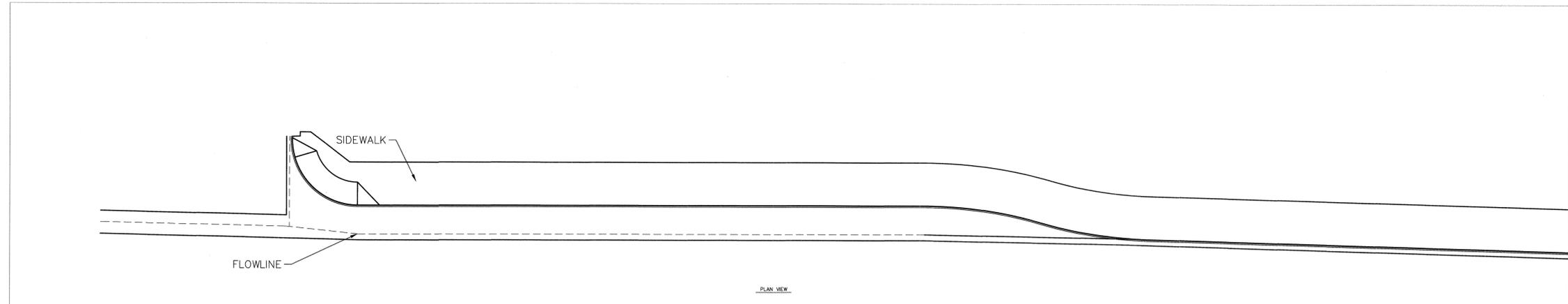
SCALE	SHEET No
HORIZ: N/A	DT-09
VERT: N/A	SHEET 97 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.razz Path: K:\vay_publications\0920061021-16_roadway-signal\CAD\plansheets\0920061021-DT-09.dwg / This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, and shall be without liability to Kimley-Horn and Associates, Inc.

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

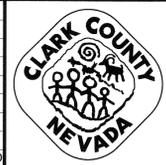


- NOTES:
1. CONCRETE BUS PAD SHALL BE MONOLITHIC. TRANSVERSE WAKENED PLANE JOINTS SHALL BE INSTALLED AT 10' INTERVALS AND AS DETAILED IN STANDARD DRAWING NO. 233, TYPE "C".
 2. A MINIMUM OF ONE SET OF PAVEMENT MARKINGS CONTAINING THE "BUSES ONLY" SYMBOL SHALL BE PLACED IN THE TURN-OUT AREA. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
 3. ADDITIONAL STORAGE AREA WILL BE REQUIRED WHEN MORE THAN ONE BUS IS EXPECTED TO OCCUPY THE TURN-OUT AT THE SAME TIME.
 4. ALTERNATE CONCRETE AND BASE THICKNESS MAY BE SUBSTITUTED, BUT MUST BE SUPPORTED BY ENGINEERING ANALYSIS AND APPROVED BY THE ENGINEER.
 5. TURN-OUT SURFACE SHALL BE TEXTURED IN ACCORDANCE WITH UNIFORM STANDARD SPECIFICATION NO. 409.03.08. FLOW LINE SHALL NOT BE TEXTURED, BUT SHALL BE A TROWELED SURFACE.
 6. REFER TO CCAUSD DWG. NO 234.1 FOR ADDITIONAL NOTES.

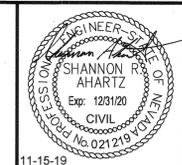
SECTION A-A

MODIFIED BUS TURN-OUT
TYPICAL INSTALLATION AND FINISH NTS

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 CONSTRUCTION DETAILS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



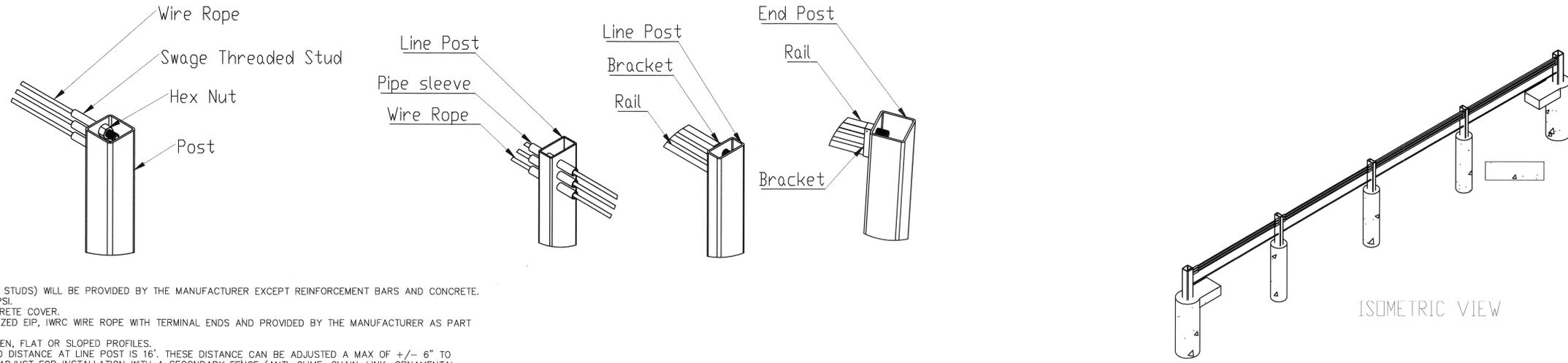
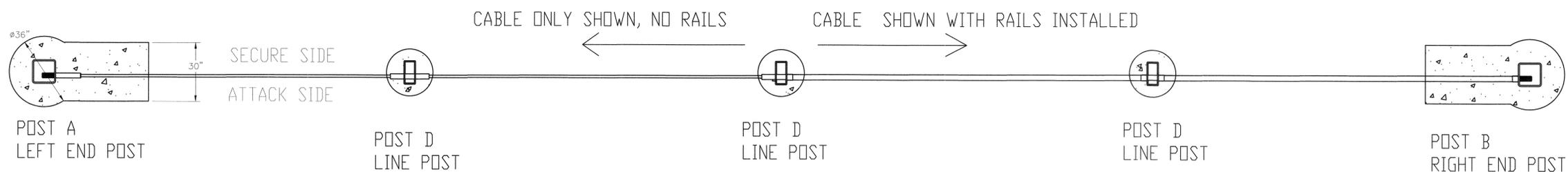
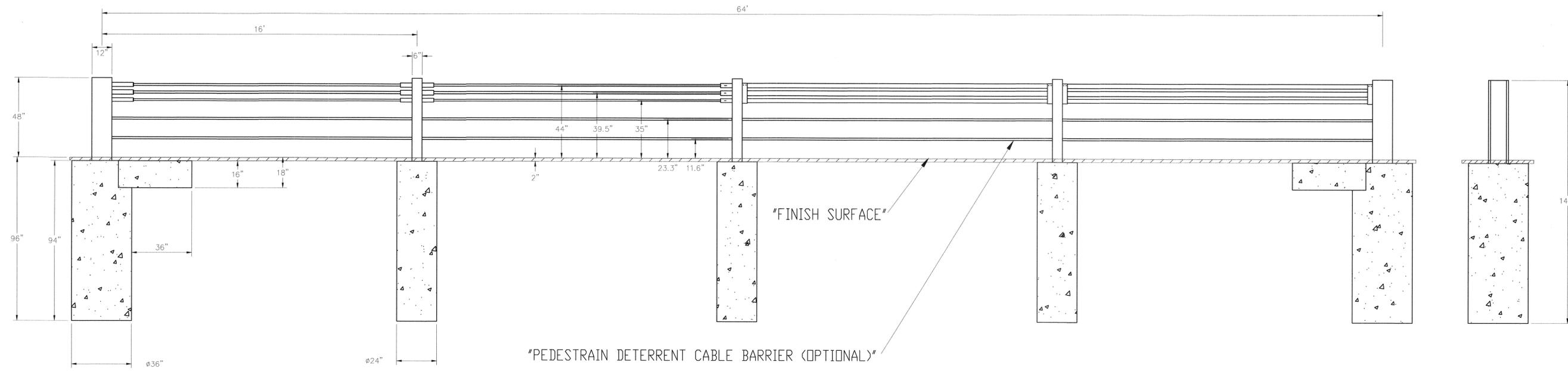
DESIGNED BY: DJW
 DRAWN BY: DJW
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	
HORIZ:	N/A
VERT:	N/A
FIELD BOOK	NONE

SHEET No	DT-11
SHEET 99 OF 345	
L-2210	

ISSUED FOR CONSTRUCTION

BID No.: 605203-19



- NOTES:
1. ALL MATERIALS (POSTS, CABLES, AND THREADED STUDS) WILL BE PROVIDED BY THE MANUFACTURER EXCEPT REINFORCEMENT BARS AND CONCRETE.
 2. THE CONCRETE SHALL BE A MINIMUM OF 4,000 PSI.
 3. ALL REBAR SHALL HAVE A MINIMUM OF 2" CONCRETE COVER.
 4. CABLE SHALL BE 6X19 OR 6X36 DRAWN GALVANIZED EIP, IWRC WIRE ROPE WITH TERMINAL ENDS AND PROVIDED BY THE MANUFACTURER AS PART OF THE FENCE SYSTEM.
 5. END AND LINE POST TOPS ARE AVAILABLE IN OPEN, FLAT OR SLOPED PROFILES.
 6. DISTANCE BETWEEN END POST SHALL BE 64' AND DISTANCE AT LINE POST IS 16'. THESE DISTANCE CAN BE ADJUSTED A MAX OF +/- 6" TO ALLOW FOR DIFFERING SITE CONDITIONS AND TO ADJUST FOR INSTALLATION WITH A SECONDARY FENCE (ANTI-CLIME, CHAIN-LINK, ORNAMENTAL, ETC.) SYSTEM.

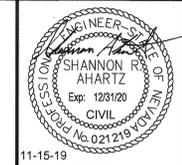
POST AND CABLE FENCE
TYPICAL INSTALLATION AND FINISH NTS

User: fernando.cruz Path: K:_pub\publications\0922061021\021-16_roadway-signal\CAD\plansheets\0922061021-01-12.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Please of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



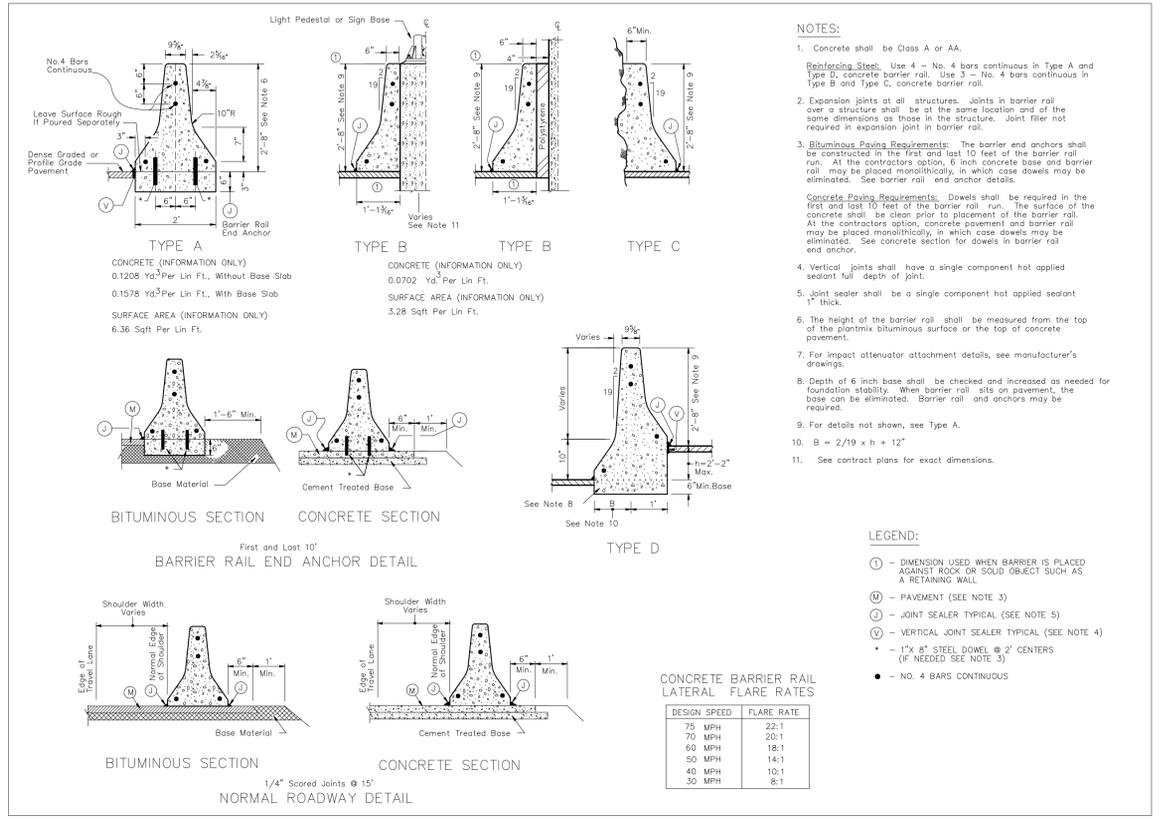
DESIGNED BY:	DJW
DRAWN BY:	DJW
CHECKED BY:	SRA
DATE:	11-15-2019

SCALE	
HORIZ:	N/A
VERT:	N/A
FIELD BOOK	NONE

SHEET No	DT-12
SHEET 100 OF 345	
L-2210	

ISSUED FOR CONSTRUCTION

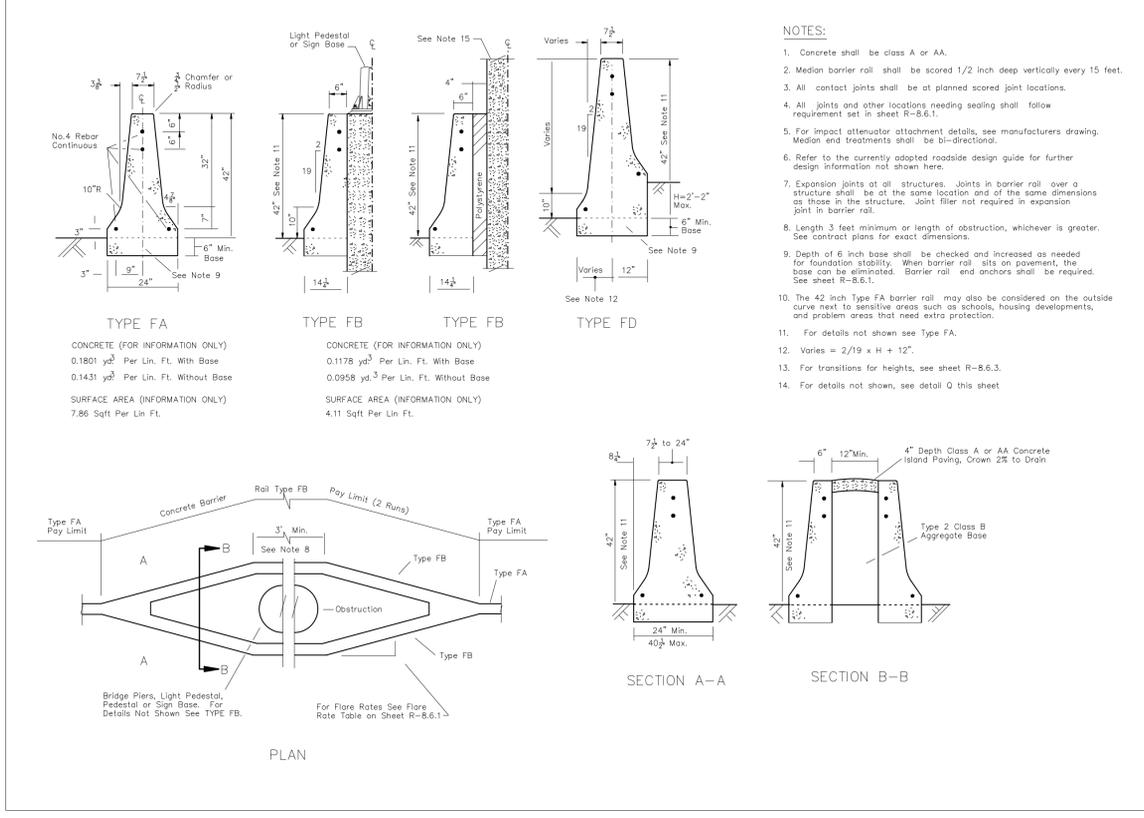
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 Path: K:\lav_publications\CAD\plansheets\09201\021-DT-13.dwg /
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- NOTES:**
- Concrete shall be Class A or AA.
 - Reinforcing Steel:** Use 4 - No. 4 bars continuous in Type A and Type D, concrete barrier rail. Use 3 - No. 4 bars continuous in Type B and Type C, concrete barrier rail.
 - Expansion Joints:** Joints in barrier rail over a structure shall be at the same location and of the same dimensions as those in the structure. Joint filler not required in expansion joint in barrier rail.
 - Bituminous Paving Requirements:** The barrier end anchors shall be constructed in the first and last 10 feet of the barrier rail run. At the contractor's option, concrete pavement and barrier rail may be placed monolithically, in which case dowels may be eliminated. See barrier rail end anchor details.
 - Concrete Paving Requirements:** Dowels shall be required in the first and last 10 feet of the barrier rail run. The surface of the concrete shall be clean prior to placement of the barrier rail. At the contractor's option, concrete pavement and barrier rail may be placed monolithically, in which case dowels may be eliminated. See concrete section for details in barrier rail end anchor.
 - Vertical joints shall have a single component hot applied sealant full depth of joint.
 - Joint sealer shall be a single component hot applied sealant 1" thick.
 - The height of the barrier rail shall be measured from the top of the plantmix bituminous surface or the top of concrete pavement.
 - For impact attenuator attachment details, see manufacturer's drawings.
 - Depth of 6 inch base shall be checked and increased as needed for foundation stability. When barrier rail sits on pavement, the base can be eliminated. Barrier rail end anchors may be required.
 - For details not shown, see Type A.
 - $B = 2/19 \times h + 12"$
 - See contract plans for exact dimensions.

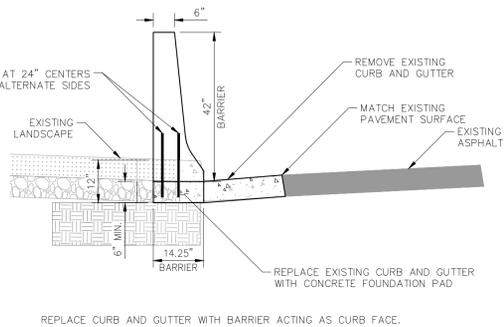
- LEGEND:**
- (1) - DIMENSION USED WHEN BARRIER IS PLACED AGAINST ROCK OR SOLID OBJECT SUCH AS A RETAINING WALL
 - (M) - PAVEMENT (SEE NOTE 3)
 - (J) - JOINT SEALER TYPICAL (SEE NOTE 5)
 - (V) - VERTICAL JOINT SEALER TYPICAL (SEE NOTE 4)
 - * - 1" x 8" STEEL DOWEL @ 2' CENTERS (IF NEEDED SEE NOTE 3)
 - - NO. 4 BARS CONTINUOUS

Q CONCRETE BARRIER RAIL
LAS VEGAS BLVD, FASHION SHOW MALL NTS



- NOTES:**
- Concrete shall be class A or AA.
 - Median barrier rail shall be scored 1/2 inch deep vertically every 15 feet.
 - All contact joints shall be at planned scored joint locations.
 - All joints and other locations needing sealing shall follow requirement set in sheet R-8.6.1.
 - For impact attenuator attachment details, see manufacturer's drawing. Median end treatments shall be bi-directional.
 - Refer to the currently adopted roadside design guide for further design information not shown here.
 - Expansion joints at all structures. Joints in barrier rail over a structure shall be at the same location and of the same dimensions as those in the structure. Joint filler not required in expansion joint in barrier rail.
 - Length 3 feet minimum or length of obstruction, whichever is greater. See contract plans for exact dimensions.
 - Depth of 6 inch base shall be checked and increased as needed for foundation stability. When barrier rail sits on pavement, the base can be eliminated. Barrier rail end anchors shall be required. See sheet R-8.6.1.
 - The 42 inch Type FA barrier rail may also be considered on the outside curve next to sensitive areas such as schools, housing developments, and problem areas that need extra protection.
 - For details not shown see Type FA.
 - Varies = $2/19 \times H + 12"$.
 - For transitions for heights, see sheet R-8.6.3.
 - For details not shown, see detail Q this sheet.

R CONCRETE BARRIER RAIL
LAS VEGAS BLVD, FASHION SHOW MALL NTS



S MODIFIED CONCRETE FB BARRIER CROSS SECTION (SEE SHEETB-01)
LAS VEGAS BLVD, FASHION SHOW MALL NTS

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
CONSTRUCTION DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: FAR
 DRAWN BY: SRA
 CHECKED BY: FAR
 DATE: 08-13-2020
Kimley»Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: N/A	DT-13
VERT: N/A	SHEET 100AOF 345
FIELD BOOK: NONE	L-2210

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	REVISED PER REVISION NO. 8	08/13/2020
APPROVED		

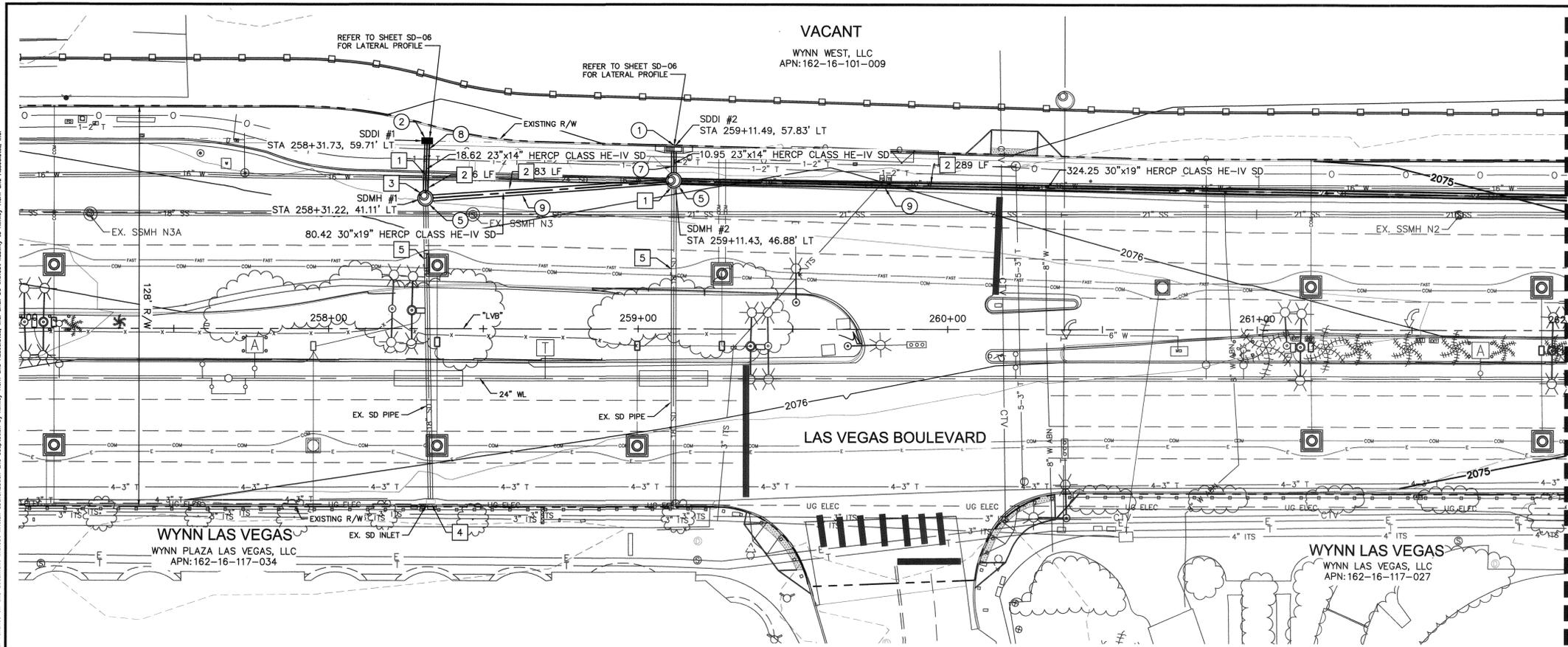


811
 know what's below
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SAFETY ALERT
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 1-702-227-2929
UNION PACIFIC RAILROAD
 Call Before You Dig
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UnderGround
 1-702-432-5300

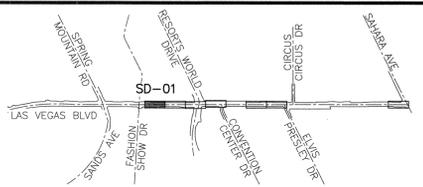
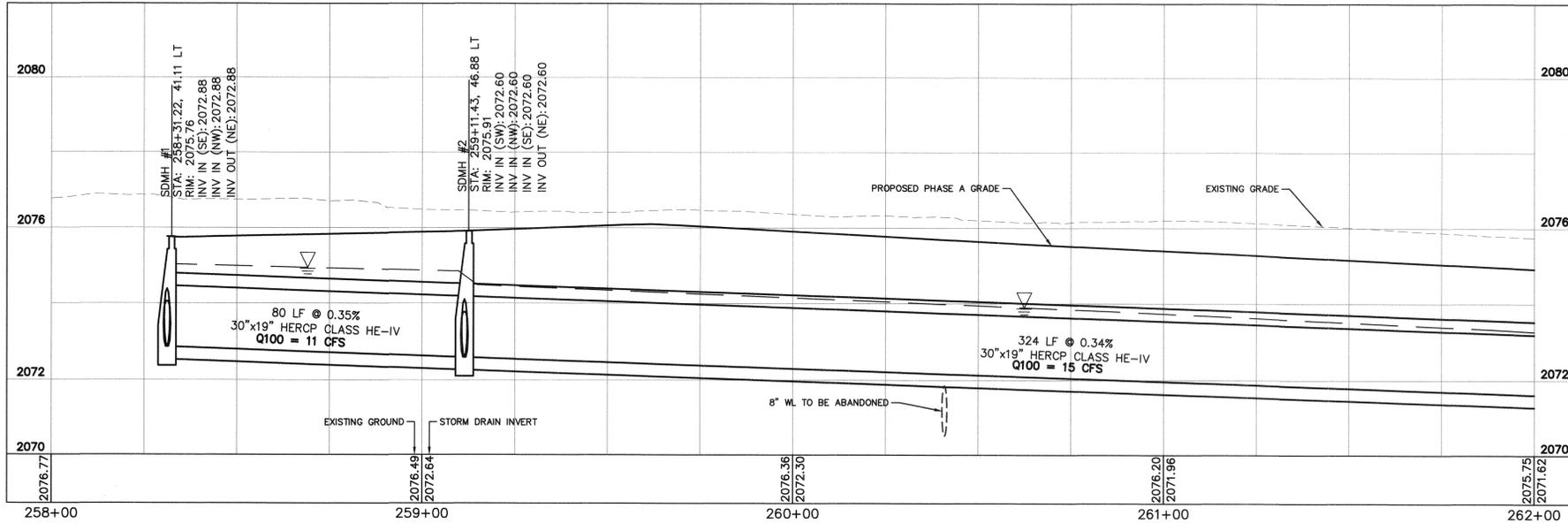
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No.: 605203-19

ISSUED FOR CONSTRUCTION

User: fernando.cruz
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MATCH LINE - STA: 262+00 SEE SHEET SD-02



KEY MAP
NTS

STORM DRAIN NOTES

- 1 CONSTRUCT 5" TYPE "CM" DROP INLET, W=1'8", PER CCAUSD DWG NO. 422 WITH WATER QUALITY STAMP PER CCAUSD 421.
- 2 CONSTRUCT NDOT TYPE 2 DROP INLET, A=3', PER DWG NO. R-4.2.1.
- 5 CONSTRUCT TYPE II MANHOLE WITH TYPE 1A RISER PER CCAUSD NO. 405.2 AND CONNECT TO EXISTING STORM DRAIN.
- 7 INSTALL 18-INCH RCP STORM DRAIN.
- 8 INSTALL 23-INCH X 14-INCH HERCP CLASS HE-IV STORM DRAIN.
- 9 INSTALL 30-INCH X 19-INCH HERCP CLASS HE-IV STORM DRAIN.

STORM DRAIN REMOVAL NOTES

- 1 REMOVE STORM DRAIN DROP INLET.
- 2 REMOVE STORM DRAIN PIPE.
- 3 REMOVE STORM DRAIN MANHOLE.
- 4 PROTECT-IN-PLACE EXISTING STORM DRAIN DROP INLET.
- 5 PROTECT-IN-PLACE EXISTING STORM DRAIN PIPE.

NOTE:

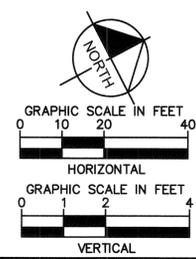
1. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES AND STORM DRAIN FACILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE: 11-25-19
 CCWRD PIPES NUMBER IS #19,848
 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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE: 12/16/19



SAFETY ALERT
Call Before You Overhead
1-702-227-2929

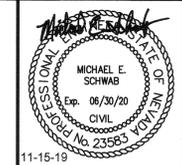
UNION PACIFIC RAILROAD
Call Before You Dig
1-800-336-9183

UnderGround
Call before you dig
1-702-432-5300

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
STORM DRAIN PLAN & PROFILE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



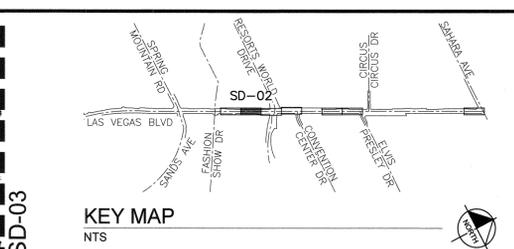
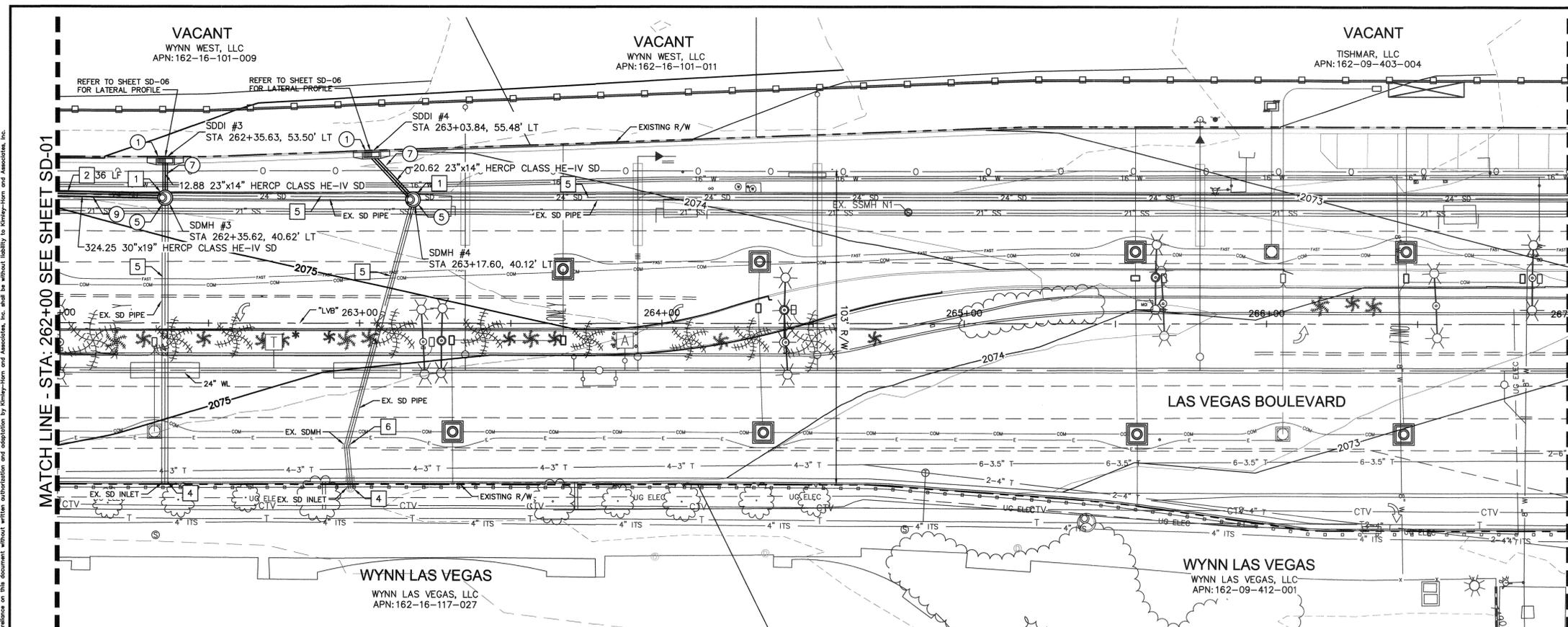
DESIGNED BY: ALMS
 DRAWN BY: AL
 CHECKED BY: RRD
 DATE: 11-15-2019
Kimley-Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 882-3600

SCALE	SHEET No.
HORIZ: 1" = 20'	SD-01
VERT: 1" = 2'	SHEET 101 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID NO.: 605203-19

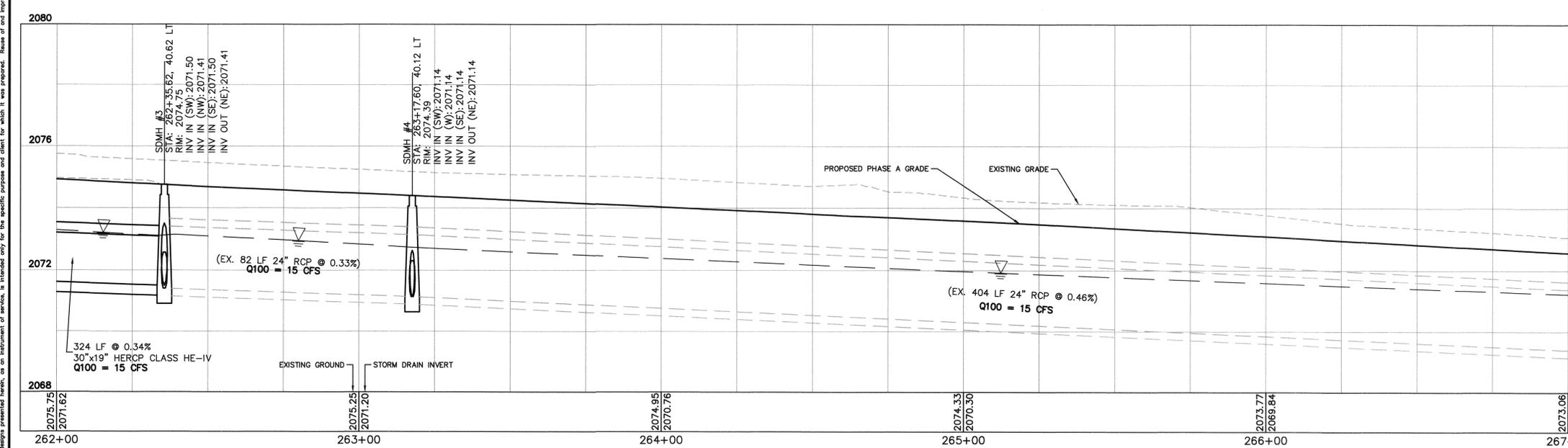
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



- STORM DRAIN NOTES**
- CONSTRUCT 5' TYPE "CM" DROP INLET, W=1'8", PER CCAUSD DWG NO. 422 WITH WATER QUALITY STAMP PER CCAUSD 421.
 - CONSTRUCT TYPE II MANHOLE WITH TYPE 1A RISER PER CCAUSD NO. 405.2 AND CONNECT TO EXISTING STORM DRAIN.
 - INSTALL 18-INCH RCP STORM DRAIN.
 - INSTALL 30-INCH X 19-INCH HERCP CLASS HE-IV STORM DRAIN.

- STORM DRAIN REMOVAL NOTES**
- REMOVE STORM DRAIN DROP INLET.
 - REMOVE STORM DRAIN PIPE.
 - PROTECT-IN-PLACE EXISTING STORM DRAIN DROP INLET.
 - PROTECT-IN-PLACE EXISTING STORM DRAIN PIPE.
 - PROTECT-IN-PLACE EXISTING STORM DRAIN MANHOLE.

- NOTE:**
- CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
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 - ALL EXISTING UTILITIES AND STORM DRAIN FACILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
 - ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.



CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT 11.25.19
DATE

CCWRD PIPES NUMBER IS #19,949
 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.

APPROVED FOR CONSTRUCTION

[Signature]
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

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0 10 20 40

HORIZONTAL
GRAPHIC SCALE IN FEET
0 1 2 4

VERTICAL

811

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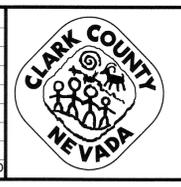
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SAFETY ALERT

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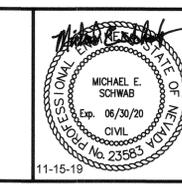
Under Ground
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
STORM DRAIN PLAN & PROFILE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ALMS
 DRAWN BY: AL
 CHECKED BY: RRD
 DATE: 11-15-2019

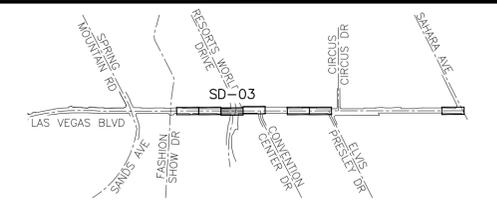
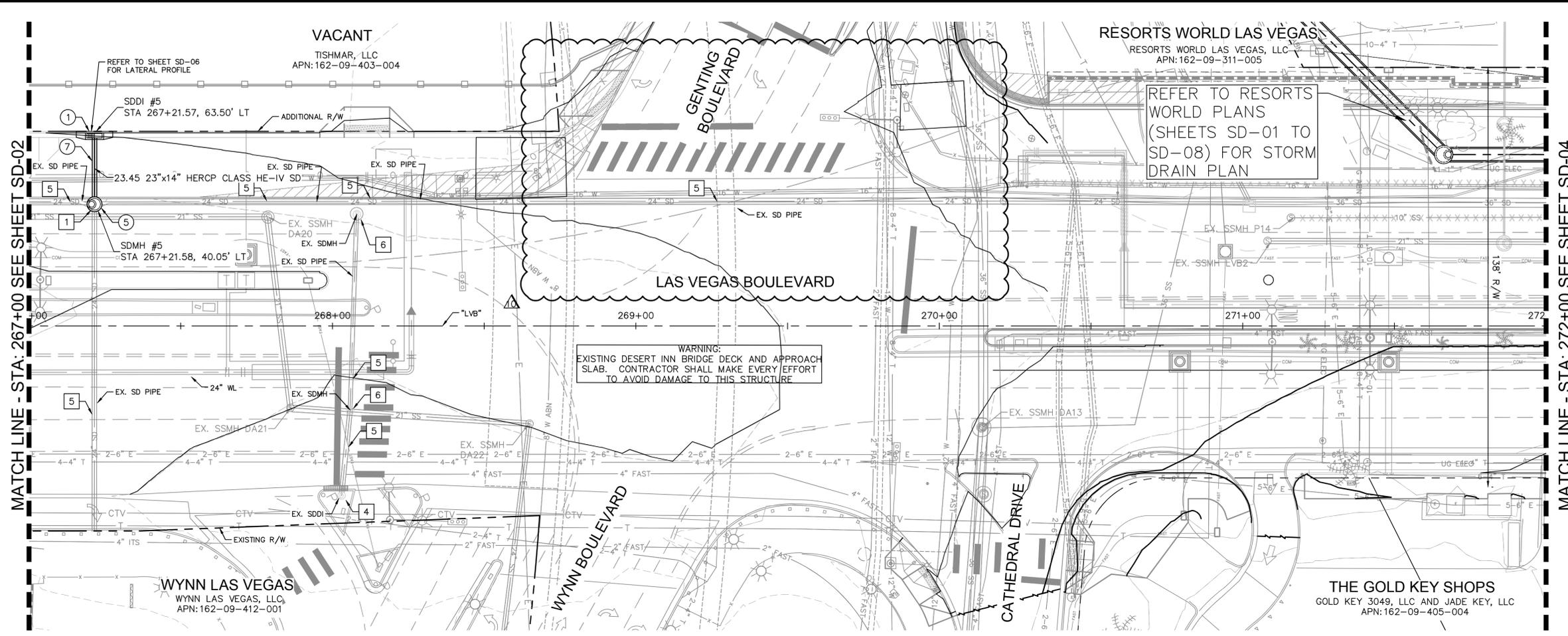
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: 1" = 20'	SD-02
VERT: 1" = 2'	SHEET 102 OF 345
FIELD BOOK NONE	L-2210

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KEY MAP
NTS

STORM DRAIN NOTES

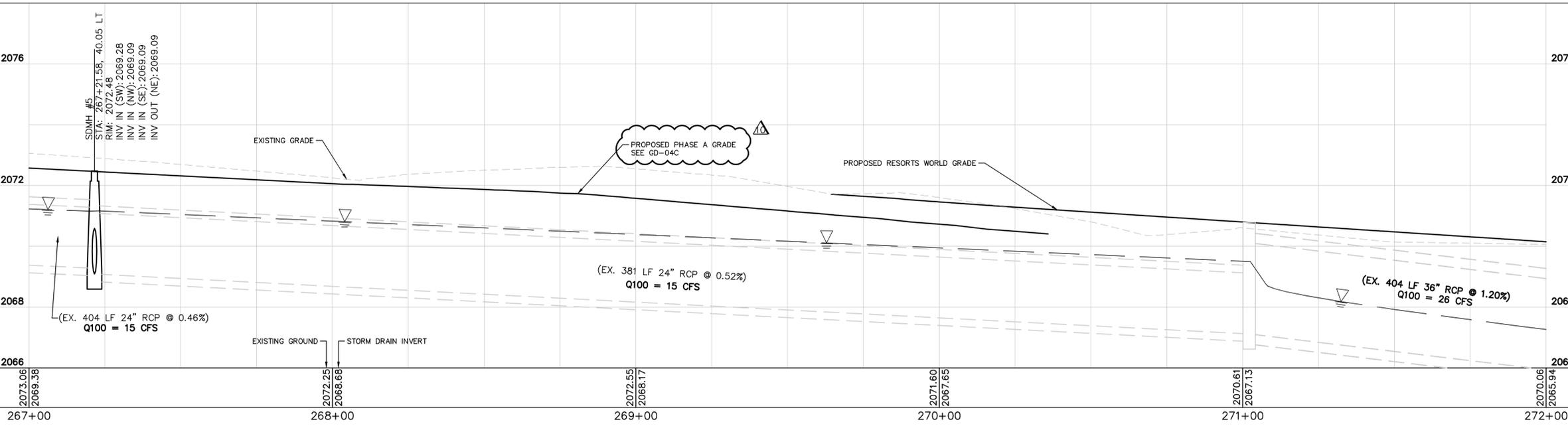
- ① CONSTRUCT 5' TYPE "CM" DROP INLET, W=1'8", PER CCAUSD DWG NO. 422 WITH WATER QUALITY STAMP PER CCAUSD 421.
- ⑤ CONSTRUCT TYPE II MANHOLE WITH TYPE 1A RISER PER CCAUSD NO. 405.2 AND CONNECT TO EXISTING STORM DRAIN.
- ⑦ INSTALL 18-INCH RCP STORM DRAIN.

STORM DRAIN REMOVAL NOTES

- ① REMOVE STORM DRAIN DROP INLET.
- ④ PROTECT-IN-PLACE EXISTING STORM DRAIN DROP INLET.
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- ⑥ PROTECT-IN-PLACE EXISTING STORM DRAIN MANHOLE.

NOTE:

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- 4. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.



CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE _____

CCWRD PIPES NUMBER IS #19,849
 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.

APPROVED FOR CONSTRUCTION

ORIGINALLY SIGNED BY S. KAMOJJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: _____

GRAPHIC SCALE IN FEET
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HORIZONTAL
GRAPHIC SCALE IN FEET
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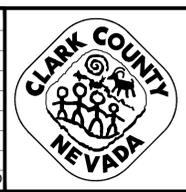
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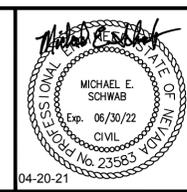
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1-702-432-5300
1-800-336-9193

NO.	REVISIONS	DATE
①	ISSUED FOR CONSTRUCTION	10/23/2019
②	REVISED PER REVISION NO. 2	11/15/2019
③	LVB-GENTING INTERSECTION REVISION	04/20/2021

APPROVED



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 STORM DRAIN PLAN & PROFILE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: AL/MS
 DRAWN BY: AL
 CHECKED BY: RRD
 DATE: 04-20-2021

Kimley»Horn

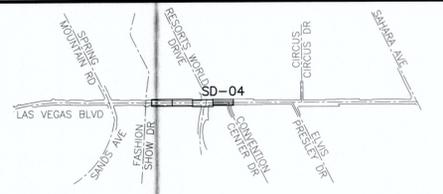
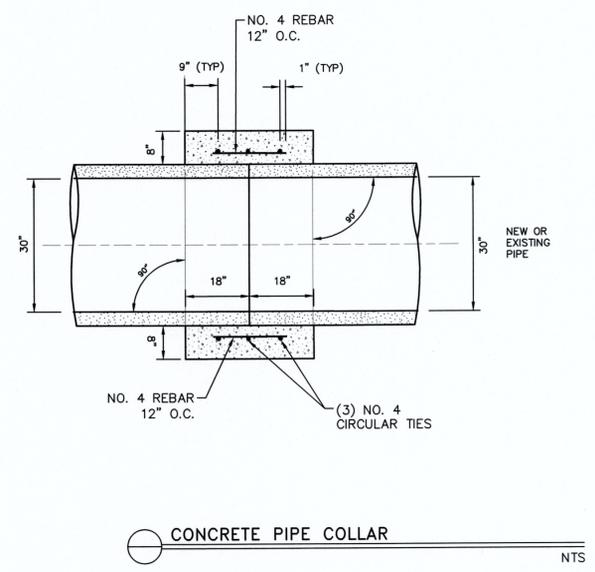
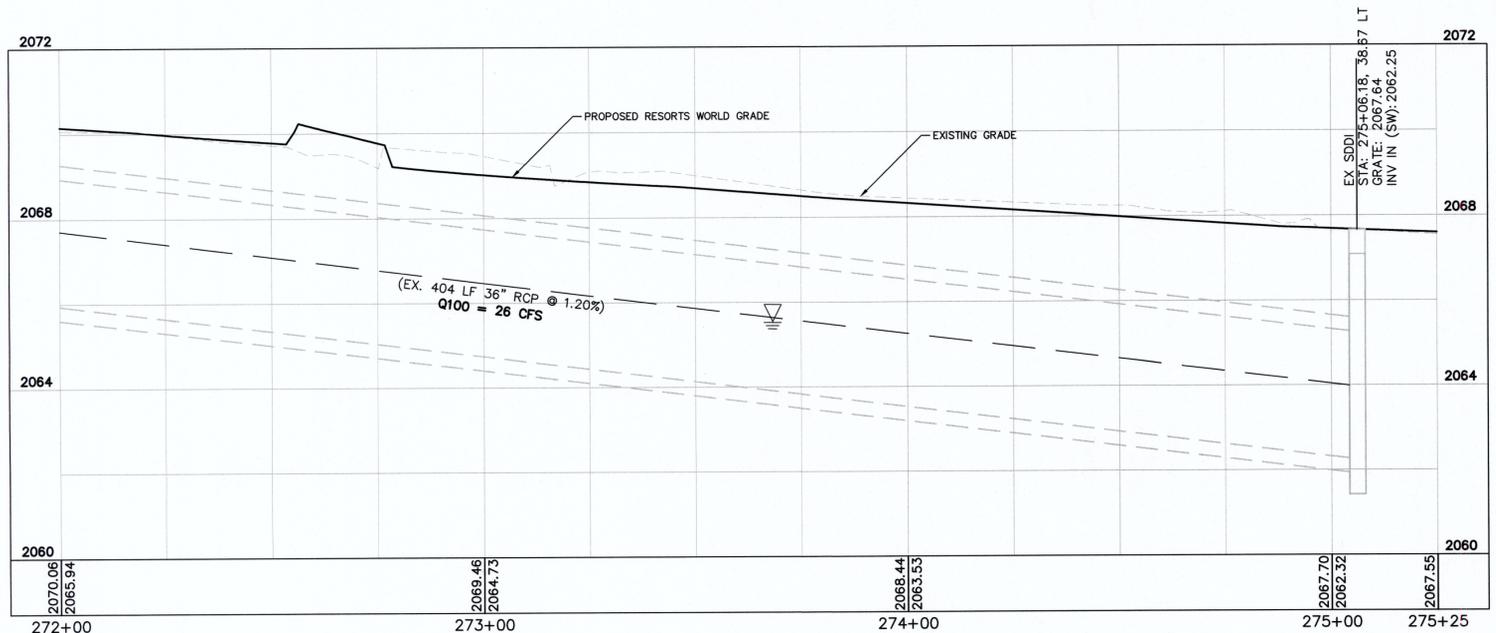
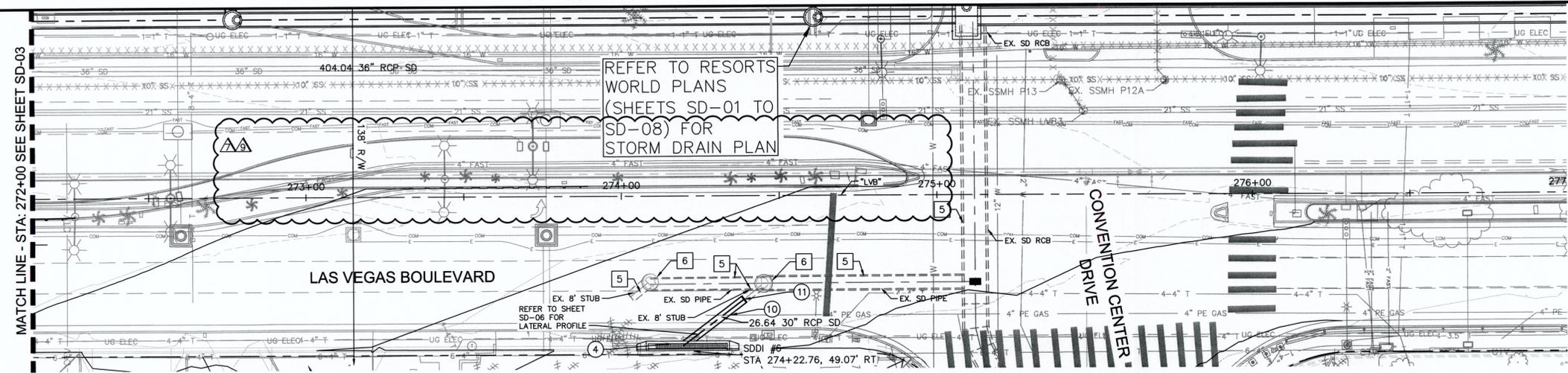
6871 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 20'	SD-03
VERT: 1" = 2'	
FIELD BOOK NONE	SHEET 103 OF 345
	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No.: 605203-19

User: fernando.razz
 Path: K:\LAV_Public\Trans\092061\CC\021-LVB_Roadway-Signals\CAD\Plan\092061\021-SD.dwg /
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KEY MAP
NTS

STORM DRAIN NOTES

- ④ CONSTRUCT 25' TYPE "CM" DROP INLET PER CCAUD DWG NO. 422 WITH STORMWATER QUALITY STAMP CCAUD NO. 421.
- ⑩ INSTALL 30-INCH RCP STORM DRAIN.
- ⑪ CONNECT TO EXISTING WITH CONCRETE COLLAR PER DETAIL ON THIS SHEET.

STORM DRAIN REMOVAL NOTES

- ⑤ PROTECT-IN-PLACE EXISTING STORM DRAIN PIPE.
- ⑥ PROTECT-IN-PLACE EXISTING STORM DRAIN MANHOLE.

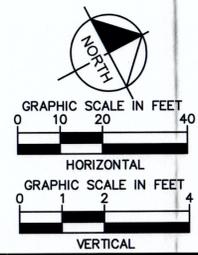
NOTE:

1. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES AND STORM DRAIN FACILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT
 DATE _____
 CCWRD PIPES NUMBER IS #19,949
 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.

APPROVED FOR CONSTRUCTION
 ORIGINALLY SIGNED BY S. KAMOJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19



SAFETY ALERT
 Call Before You Overhead
 1-702-227-2929

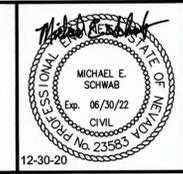
811
 know what's below
 Call before you dig

UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9193

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWL RELATED IMPROVEMENT REV	09/04/2020
4	RWL RELATED IMPROVEMENT REV	12/30/2020
	APPROVED	



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
STORM DRAIN PLAN & PROFILE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: AL/MS
 DRAWN BY: AL
 CHECKED BY: RRD
 DATE: 12-30-2020

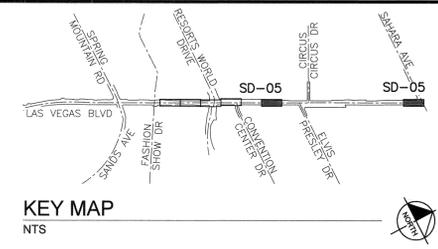
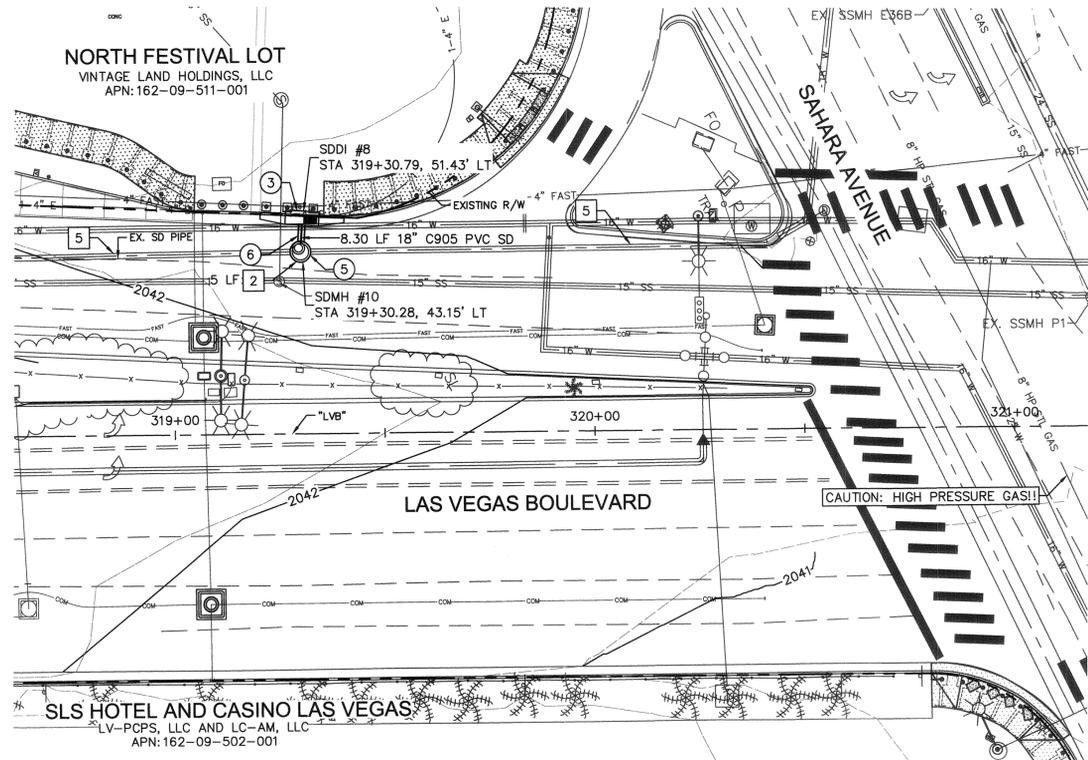
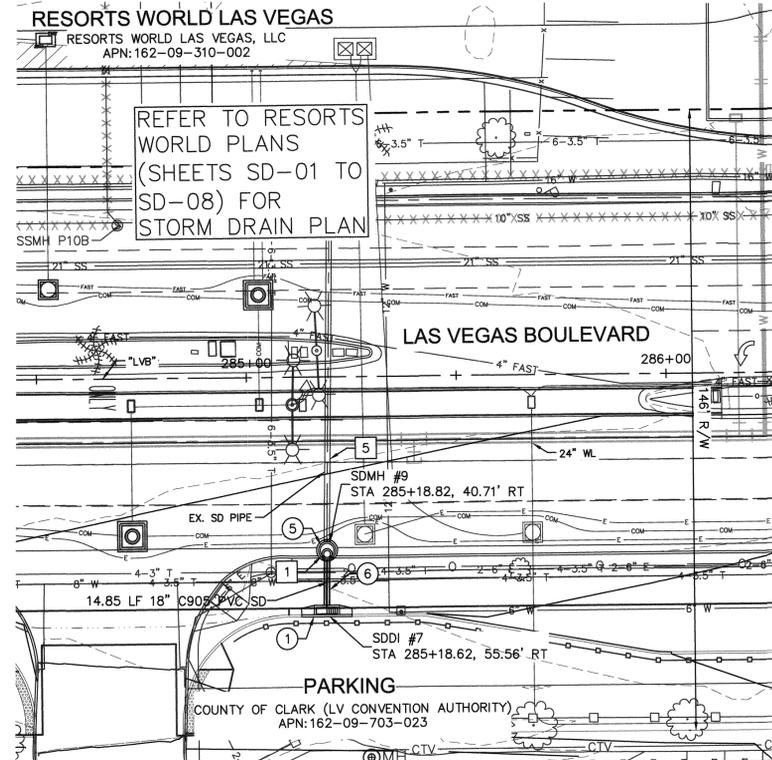
SCALE
 HORIZ: 1"=20'
 VERT: 1"=2'
 FIELD BOOK: NONE

SHEET No.
SD-04
 SHEET 104 OF 345
 L-2210



ISSUED FOR CONSTRUCTION

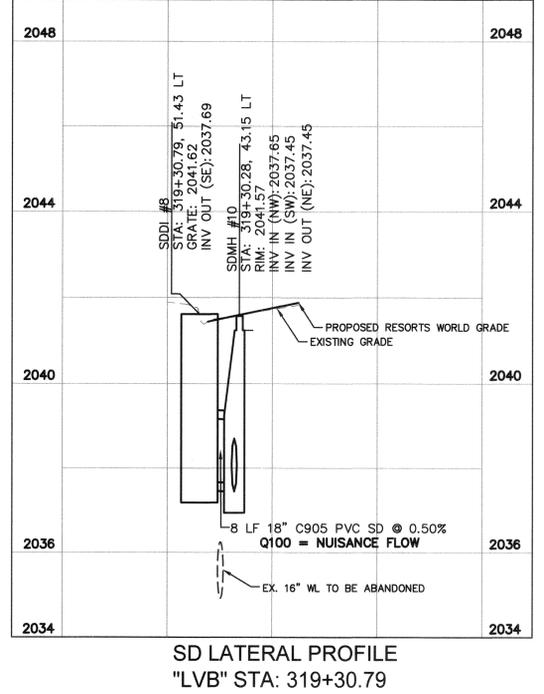
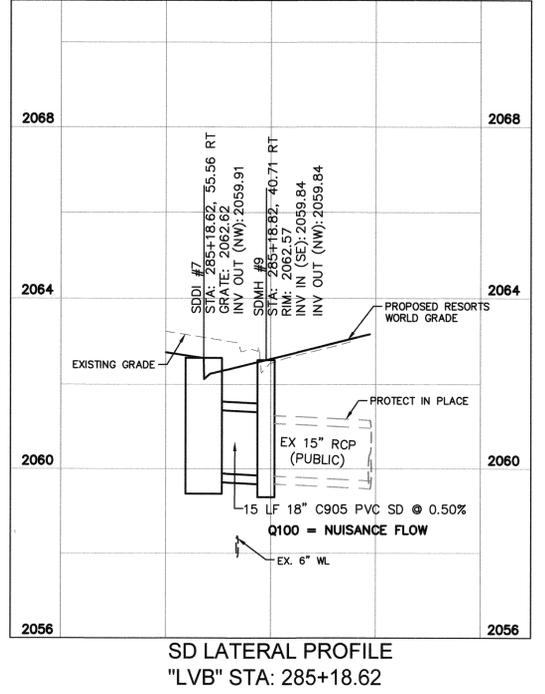
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



- STORM DRAIN NOTES**
- CONSTRUCT 5' TYPE "CM" DROP INLET, W=1'8", PER CCAUSD DWG NO. 422 WITH WATER QUALITY STAMP PER CCAUSD 421.
 - CONSTRUCT MODIFIED TYPE A DROP INLET PER CCAUSD NO. 411.1 WITH STORMWATER QUALITY STAMP CCAUSD NO. 421.
 - CONSTRUCT TYPE II MANHOLE WITH TYPE 1A RISER PER CCAUSD NO. 405.2 AND CONNECT TO EXISTING STORM DRAIN.
 - INSTALL 18-INCH C-905 PVC WATER QUALITY STORM PIPE.

- STORM DRAIN REMOVAL NOTES**
- REMOVE STORM DRAIN DROP INLET.
 - REMOVE STORM DRAIN PIPE.
 - PROTECT-IN-PLACE EXISTING STORM DRAIN PIPE.

- NOTE:**
- CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - ALL EXISTING UTILITIES AND STORM DRAIN FACILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
 - ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.



CAUTION: HIGH PRESSURE GAS!!
CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

11-25-19
DATE

CCWRD PIPES NUMBER IS #19,842
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.

APPROVED FOR CONSTRUCTION

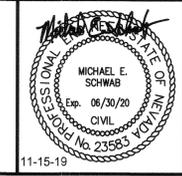
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077
FIRST APPROVED DATE: 12/16/19

User: fernando.roaz
Path: K:\New_publications\CAD\plansheets\092019\021-SD.dwg /
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
STORM DRAIN PLAN & PROFILE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



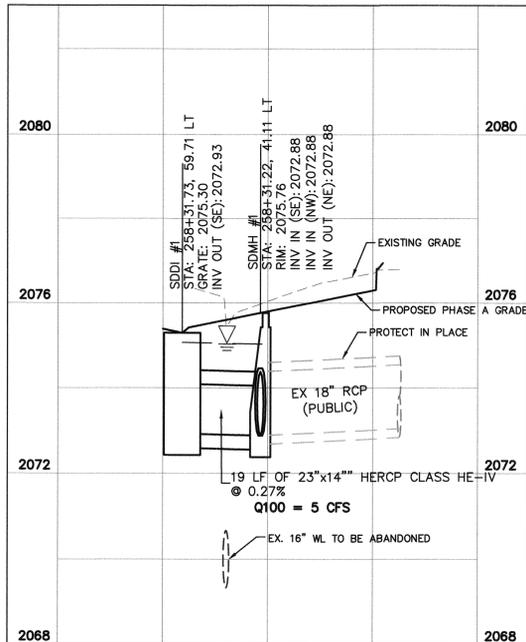
DESIGNED BY: ALMS
DRAWN BY: AL
CHECKED BY: RRD
DATE: 11-15-2019

Kimley Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. (702) 862-3600

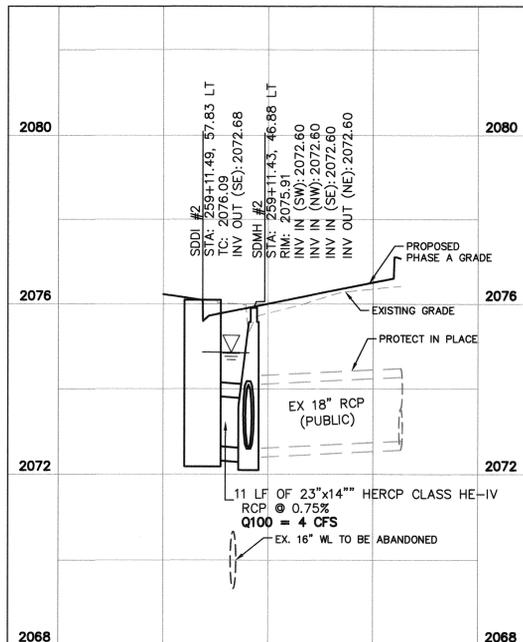
SCALE	SHEET No
HORIZ: 1"=20'	SD-05
VERT: 1"=2'	SHEET 105 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

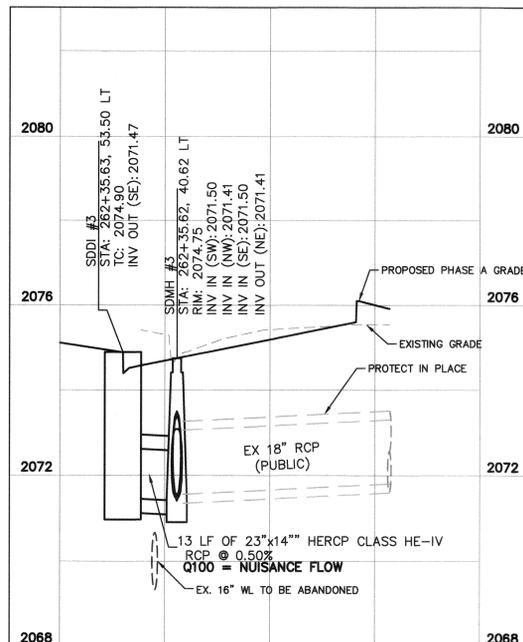
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID NO.: 605203-19



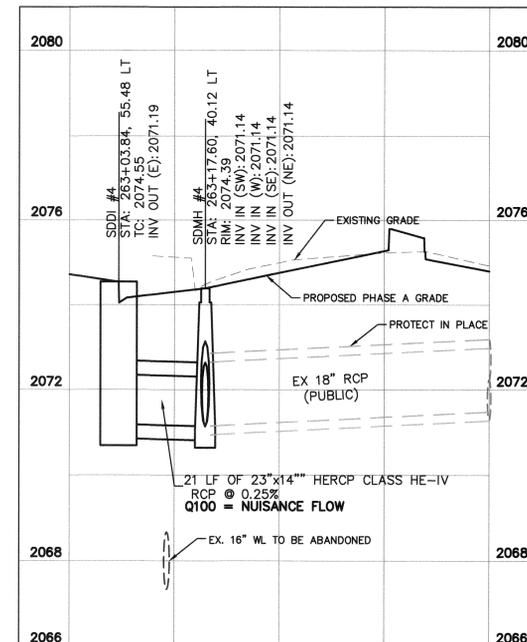
SD LATERAL PROFILE
"LVB" STA: 258+31.73



SD LATERAL PROFILE
"LVB" STA: 259+11.49



SD LATERAL PROFILE
"LVB" STA: 262+35.63



SD LATERAL PROFILE
"LVB" STA: 263+03.84

NOTE:

1. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
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4. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

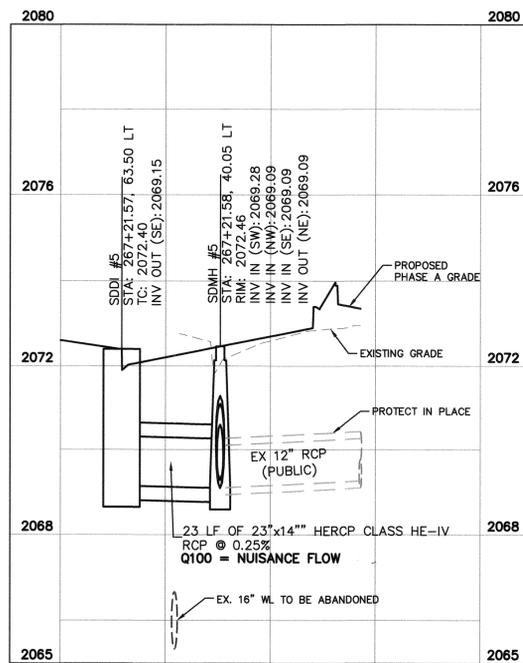
CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT
 CCWRD PIPES NUMBER IS #19,949.
 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.

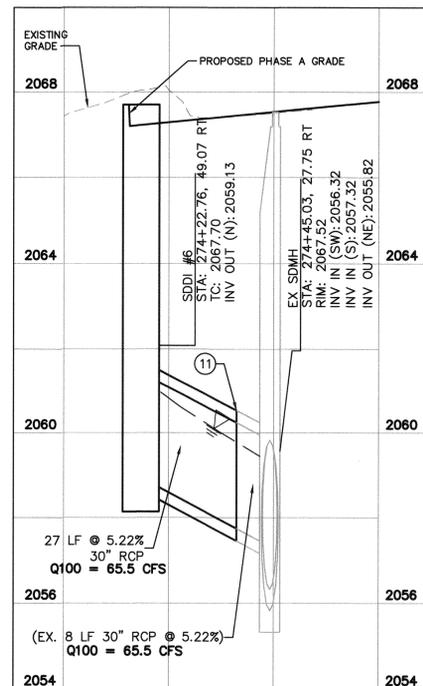
11-25-19
DATE

APPROVED FOR CONSTRUCTION

[Signature]
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: 11/16/19



SD LATERAL PROFILE
"LVB" STA: 267+21.57

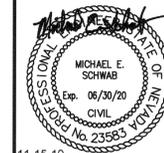


SD LATERAL PROFILE
"LVB" STA: 274+22.76

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 STORM DRAIN PLAN & PROFILE - LATERALS
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ALMS
 DRAWN BY: AL
 CHECKED BY: RRD
 DATE: 11-15-2019

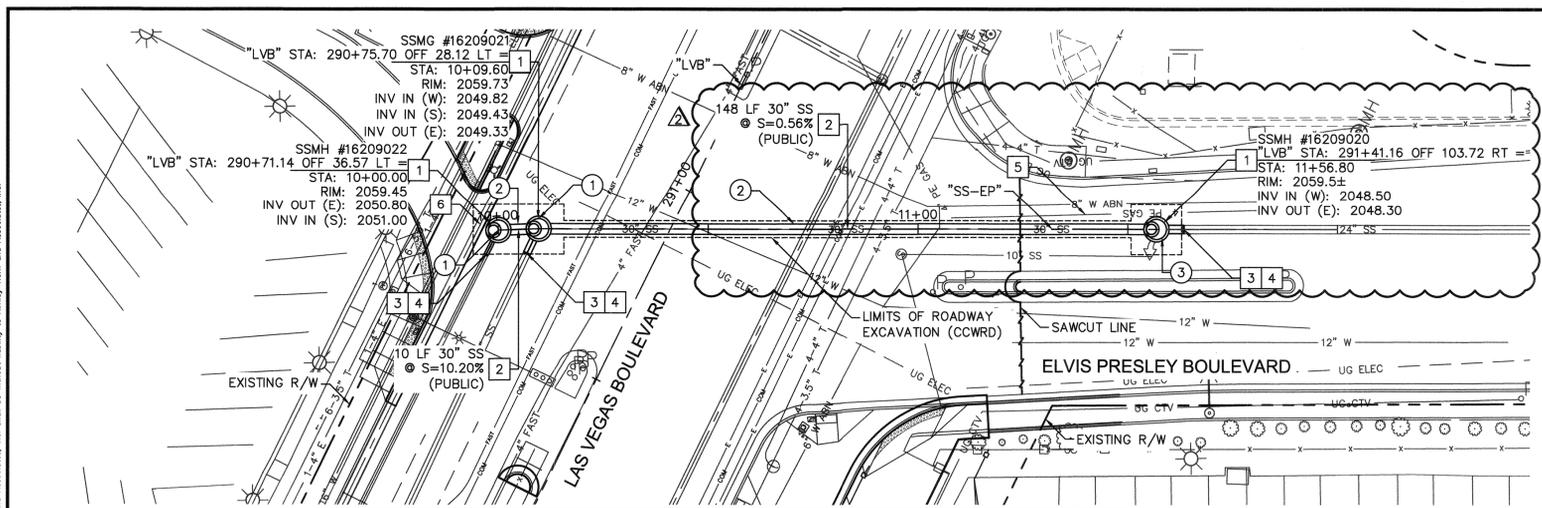
Kimley»Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 962-3600

SCALE	SHEET No
HORIZ: 1" = 20'	SD-06
VERT: 1" = 2'	SHEET 106 OF 345
FIELD BOOK NONE	L-2210

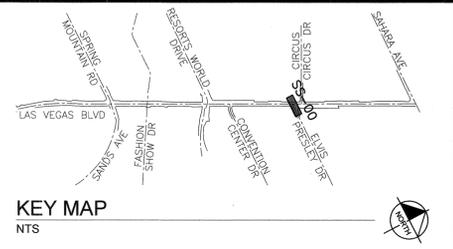
ISSUED FOR CONSTRUCTION

User: fernando.reez Path: K:\nv_publicworks\092019\signal\CAD\plansheets\092019\021-SD.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

User: c:\riss\stevenson\092021_cc\021-LVB_Roadway-Signal\CAD\Plan\Sheet\092021-SS.dwg /
 Path: K:\LAV_Public\Trans\092021-SS.dwg /
 This document, together with the contract and design presented herein, is intended only for the specific purpose and shall be without liability to Kimley-Horn and Associates, Inc.

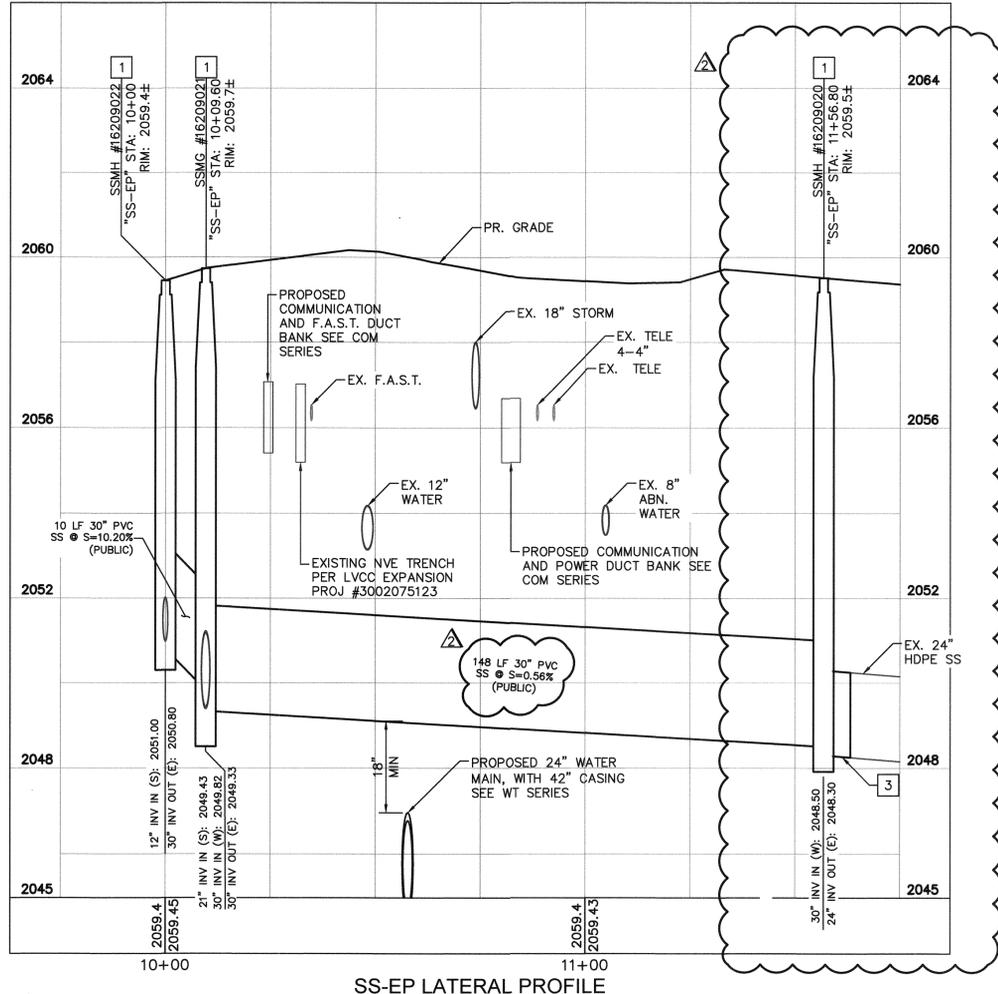


- NOTES:**
- ALL EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
 - CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - ALL ABOVE GROUND UTILITY APPURTENANCES SHALL BE ADJUSTED TO MATCH FINISHED GRADE ELEVATIONS.
 - SEWER LINE LENGTHS SHOWN ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE FOR REFERENCE.

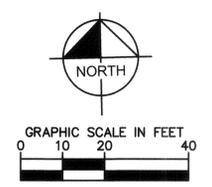


- SEWER NOTES:**
- INSTALL 72" SANITARY SEWER POLYMER MANHOLE
 - INSTALL ASTM-F679, PS-46 MINIMUM, 30" PVC SANITARY SEWER LINE PER DCSWCS SD-17, SIZE, LENGTH AND SLOPE AS NOTED ON PLAN. ALL INVERT ELEVATIONS TO MATCH EXISTING PIPE INVERT ELEVATIONS.
 - INSTALL RIGID PIPE FIELD CLOSURE PER 2019 DCSWCS SD-30
 - INSTALL NEW PVC PIPE, TO MATCH EXISTING, TO CONNECT INTO MANHOLE. INCIDENTAL TO MANHOLE BID ITEM.
 - EXISTING GAS LINE, PROTECT IN PLACE
 - EXISTING STORM DRAIN, PROTECT IN PLACE

- SEWER REMOVAL NOTES**
- REMOVE EXISTING ACTIVE 72" SANITARY SEWER MANHOLE, BYPASS PER SPECIFICATIONS SECTION 630.
 - REMOVE EXISTING 30" HDPE ACTIVE SANITARY SEWER PIPE
 - REMOVE EXISTING ACTIVE 60" SANITARY SEWER MANHOLE, BYPASS PER SPECIFICATIONS SECTION 630.



MANHOLE LOCATION TABLE		
NAME	NORTHING	EASTING
SSMH #16209022	26751507.07	780479.03
SSMH #16209021	26751507.18	780488.64
SSMH #16209020	26751503.91	780635.80



CCWRD APPROVAL

Signature: [Signature]
DATE: 11.25.19

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #19,949
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.

APPROVED FOR CONSTRUCTION

Signature: [Signature]
DATE: 12/16/19

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE: 12/16/19

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
1-800-336-9188

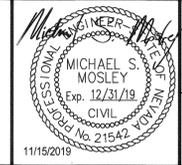
UnderGround
Call Before You Dig
1-702-432-5300

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019

APPROVED: [Signature]



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SANITARY SEWER PLAN AND PROFILE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: MSM
DRAWN BY: FAR
CHECKED BY: ATM
DATE: 11-15-2019

Kimley-Horn
8571 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3800

SCALE		SHEET No.
HORIZ:	1" = 20'	SS-00
VERT:	1" = 2'	SHEET 107 OF 345
FIELD BOOK	NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS