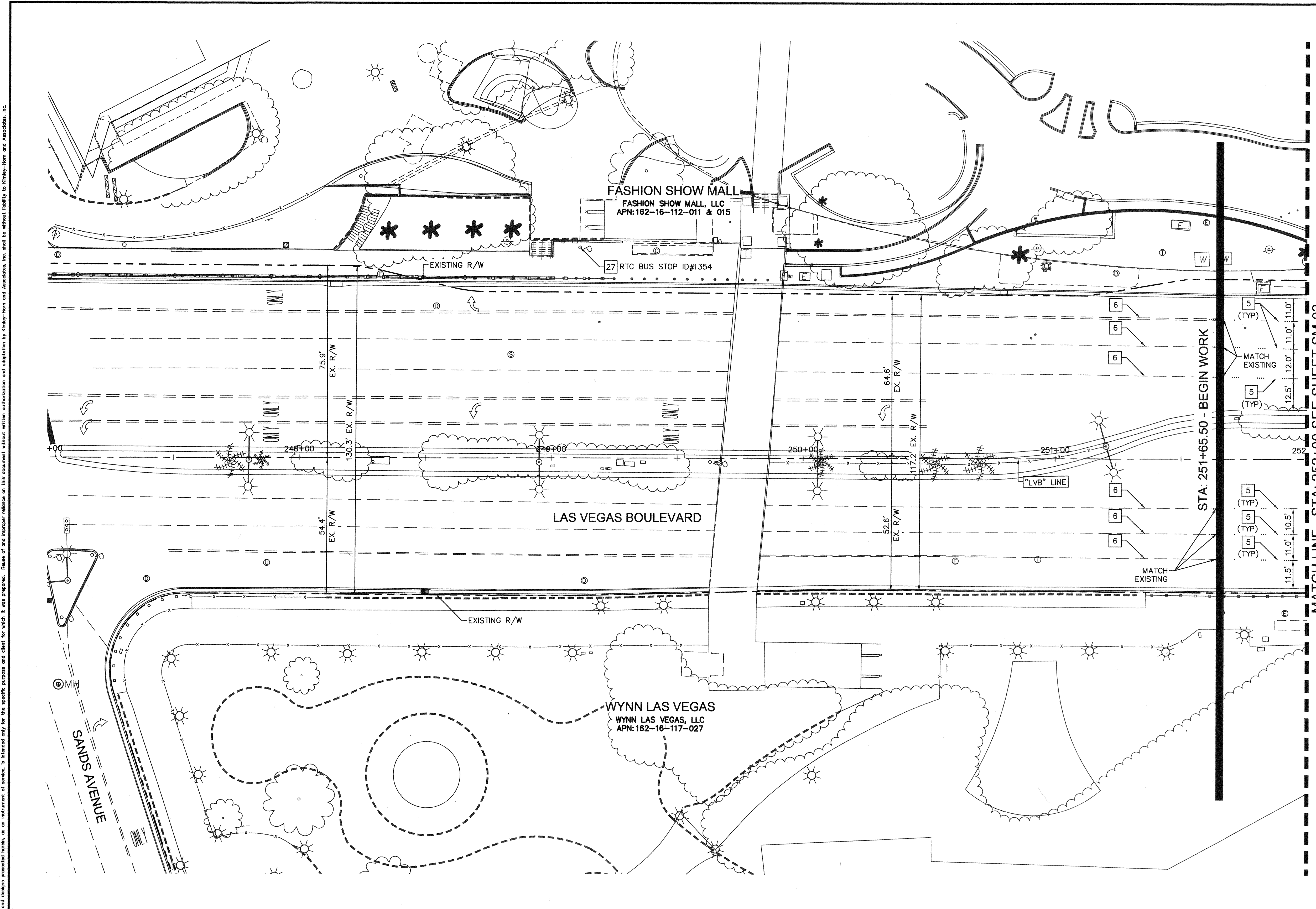


KEY MAP
NTS

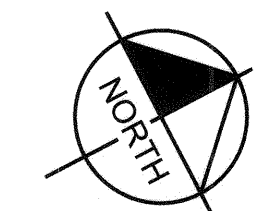
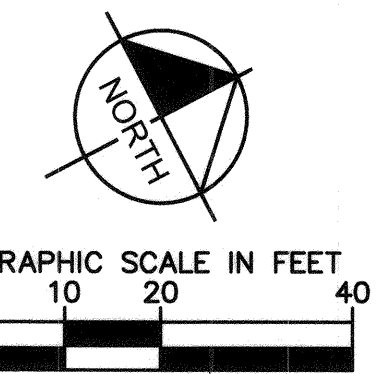
SIGNING AND MARKING NOTES

- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 6 EXISTING STRIPING TO REMAIN. PATTERN AS NOTED ON PLANS
- 27 EXISTING RTC BUS STOP SIGN POST AND PANEL, PROTECT IN PLACE



MATCH LINE - STA: 252+00 SEE SHEET SM-02

STA: 251+65.50 - BEGIN WORK



811
know what's below
Call before you dig

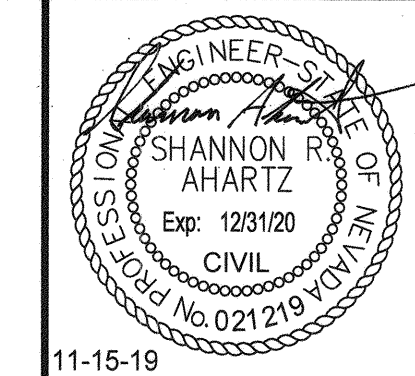
SAFETY ALERT
Call Before You Overhead
1-702-227-2829

UNION PACIFIC RAILROAD
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
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



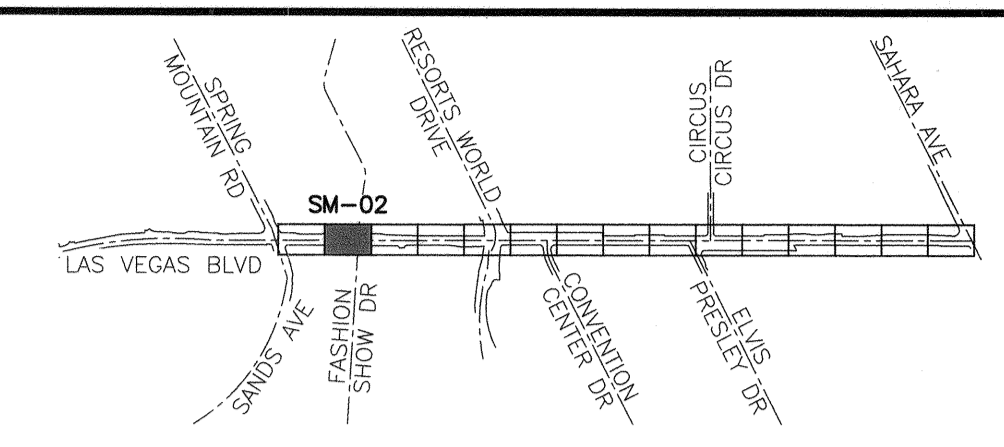
DESIGNED BY: FAR
DRAWN BY: CKK
CHECKED BY: SRA
DATE: 11-15-2019

Kimley»Horn
8671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 20'	SM-01
VERT: N/A	SHEET 170 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

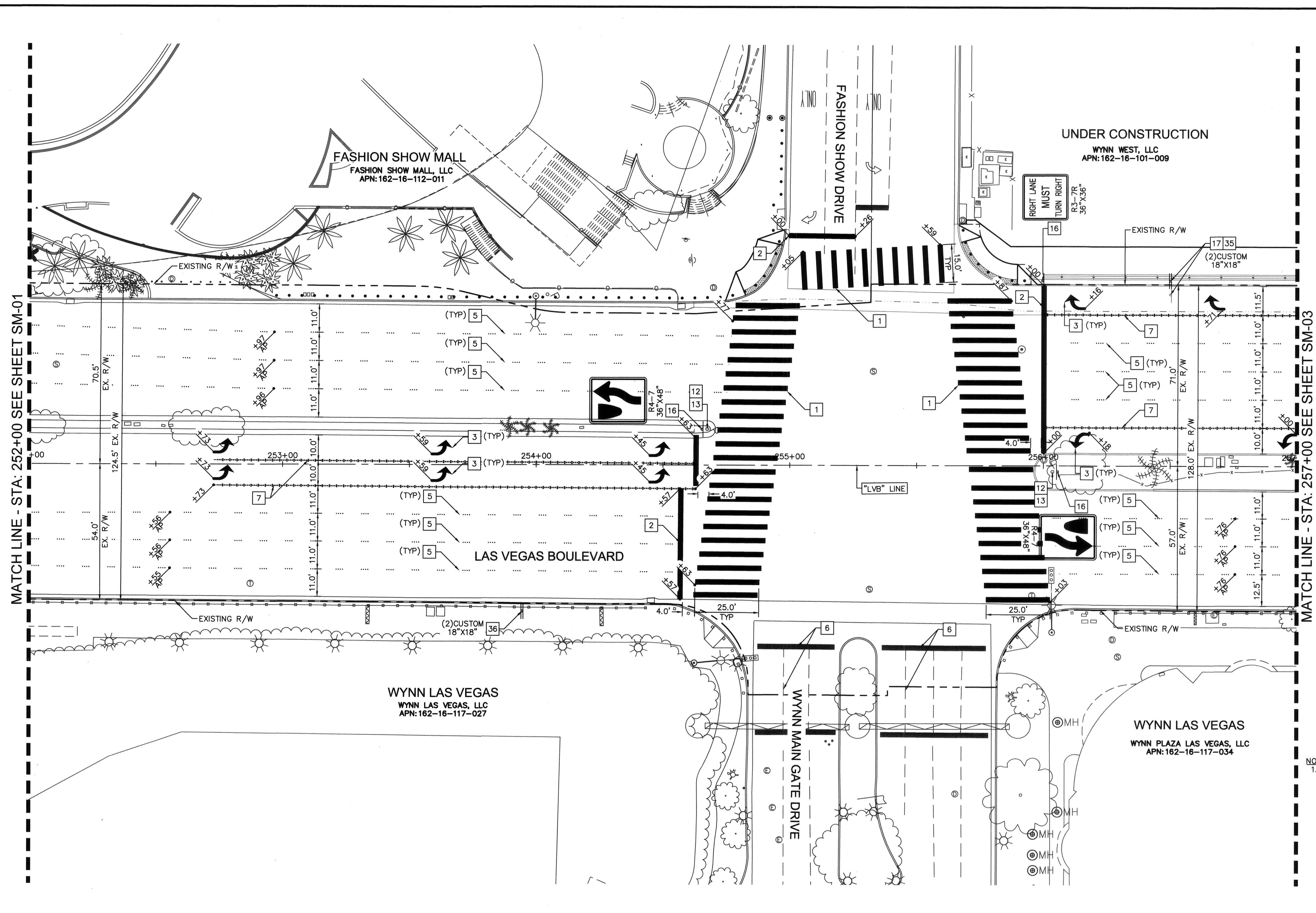
Users: fernando.naz
Path: K:\low_publicworks\CAD\plans\092019\021-SM.dwg
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KEY MAP
NTS

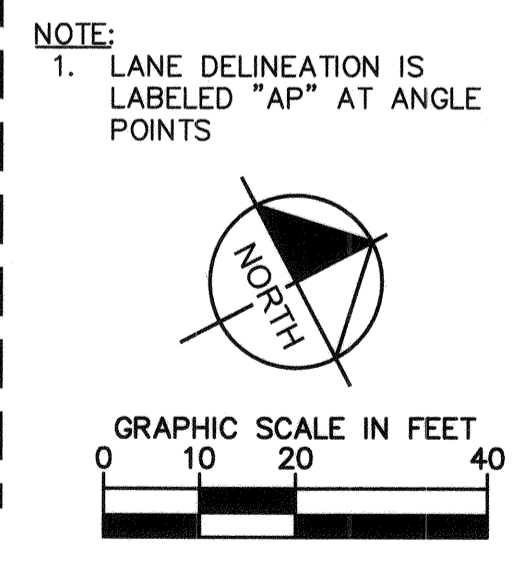
SIGNING AND MARKING NOTES

- 1 INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
- 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 6 EXISTING STRIPING TO REMAIN. PATTERN AS NOTED ON PLANS
- 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
- 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
- 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 17 REMOVE EXISTING SIGN POST AND PANEL. SIGN TO BE SALVAGED
- 35 INSTALL SALVAGED CUSTOM PERMANENT ORDINANCE SIGN PANEL ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 36 INSTALL NEW CUSTOM PERMANENT ORDINANCE SIGN PANEL PER DETAIL 5 ON SHEET SM-16 ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL



MATCH LINE - STA: 252+00 SEE SHEET SM-01

MATCH LINE - STA: 257+00 SEE SHEET SM-03



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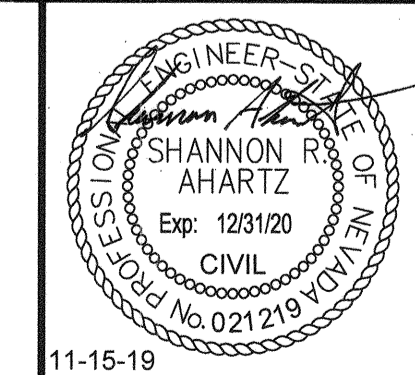
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1-800-336-9193

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
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



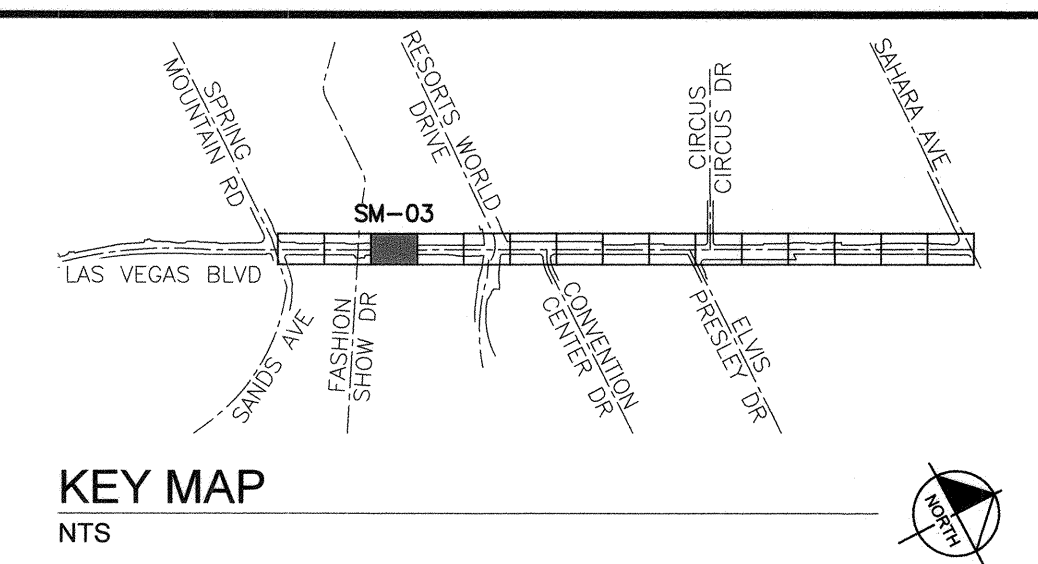
DESIGNED BY: JJP
DRAWN BY: CKK
CHECKED BY: SRA
DATE: 11-15-2019

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

SCALE	SHEET No
HORIZ: 1" = 20'	SM-02
VERT: N/A	SHEET 171 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

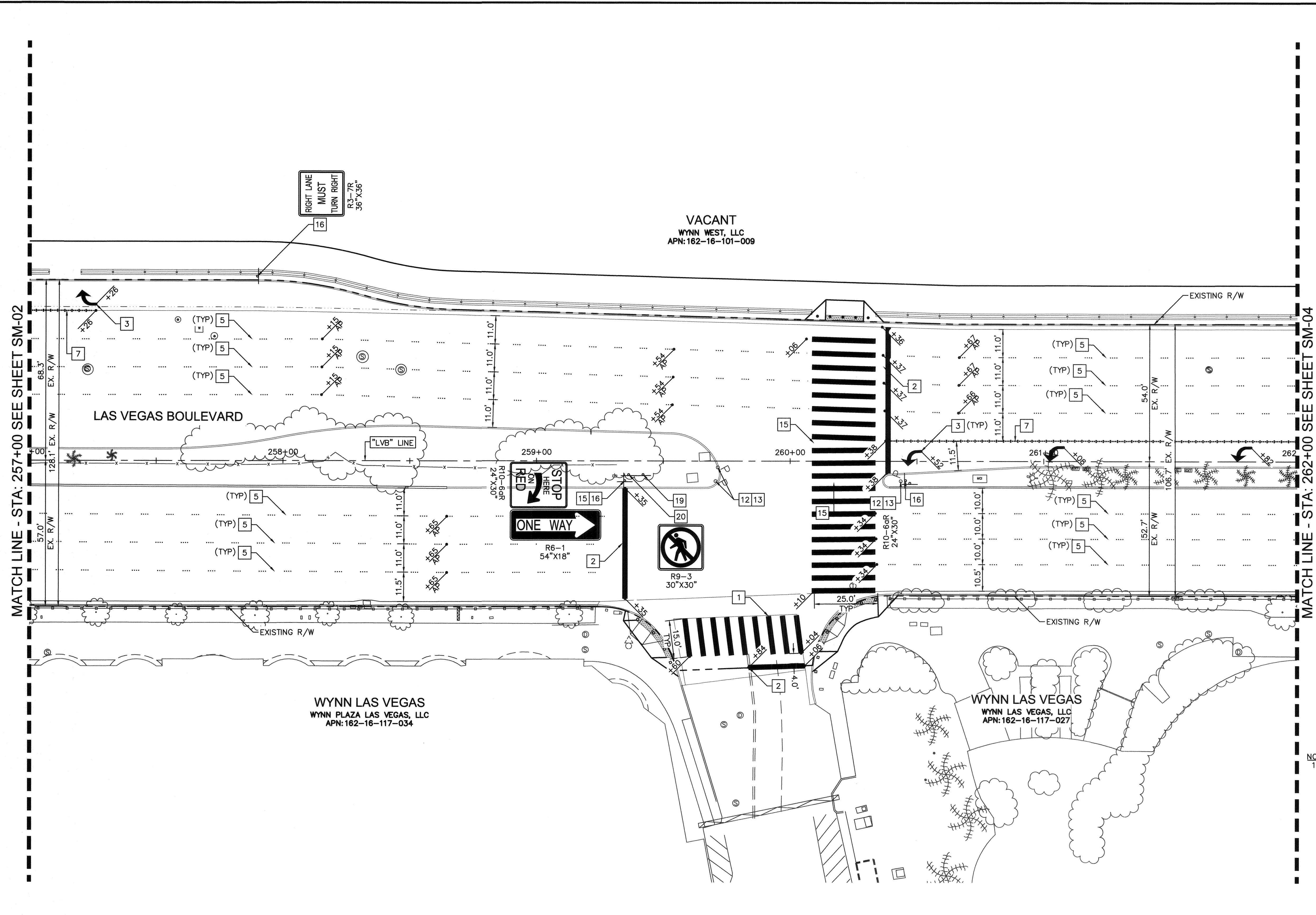
Users: fernando.cruz
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KEY MAP
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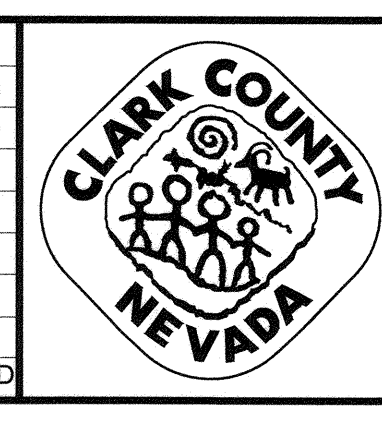
SIGNING AND MARKING NOTES

1. INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
2. INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
3. INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
5. INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
7. INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
12. INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
13. INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
15. REMOVE EXISTING SIGN POST AND PANEL
16. INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
19. REMOVE AND SALVAGE EXISTING SIGN
20. INSTALL SALVAGED SIGN ON NEW LIGHT POLE

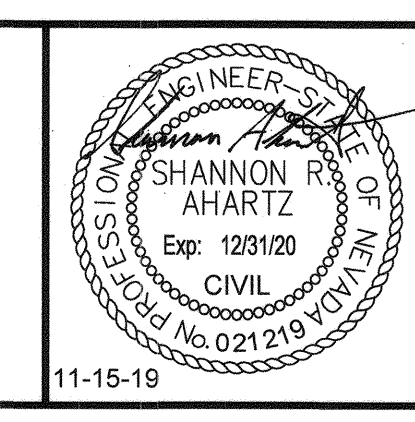


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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



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



DESIGNED BY: FAR
 DRAWN BY: CKK
 CHECKED BY: SRA
 DATE: 11-15-2019
Kimley Horn
 8871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

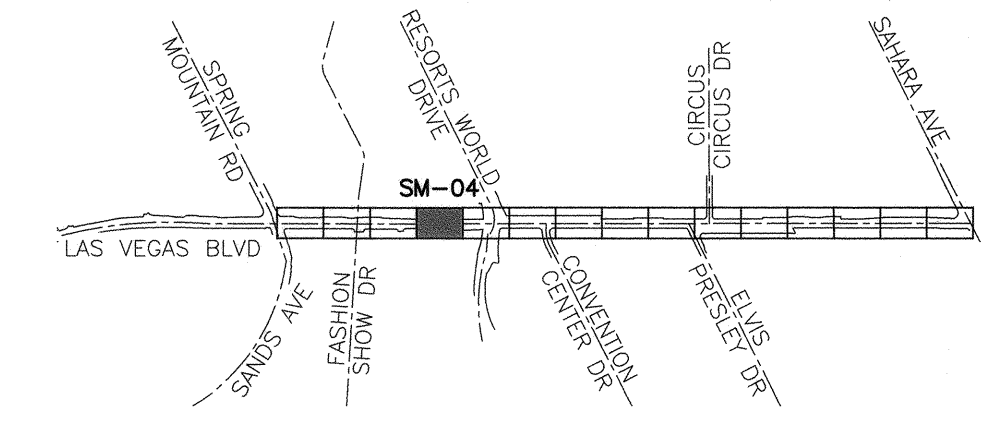
SCALE	SHEET No
HORIZ: 1" = 20'	SM-03
VERT: N/A	SHEET 172 OF 345
FIELD BOOK: NONE	L-2210

NOTE:
1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS

GRAPHIC SCALE IN FEET
 0 10 20 40

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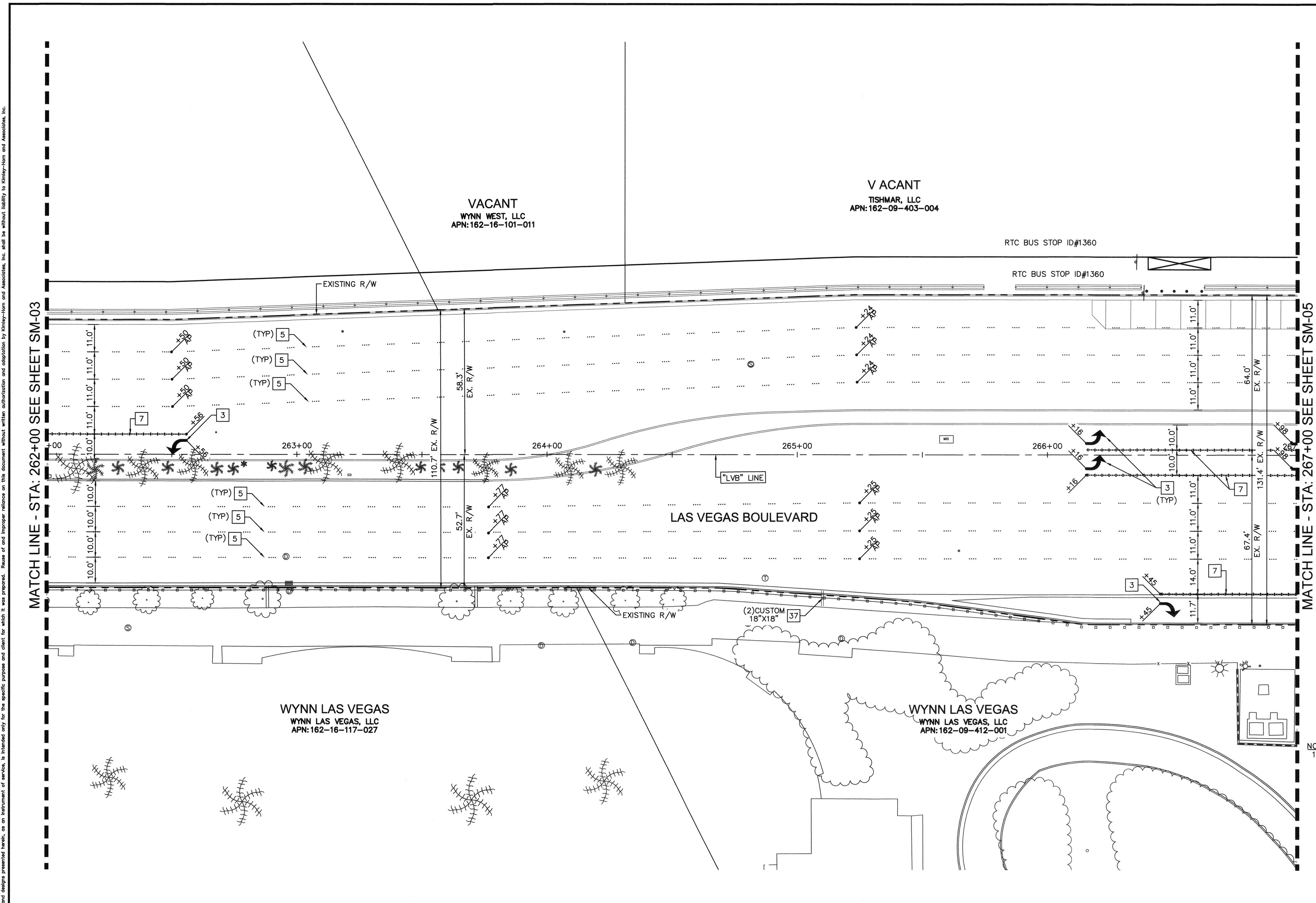
 Call Before You Dig
 1-702-432-5300
 1-800-336-9193



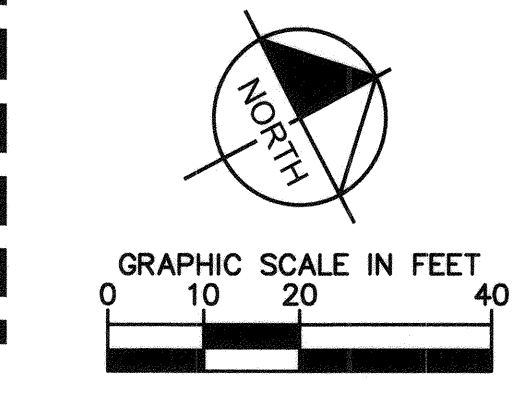
KEY MAP
NTS

SIGNING AND MARKING NOTES

- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 37 EXISTING CUSTOM PERMANENT ORDINANCE SIGN, PROTECT IN PLACE



NOTE:
1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



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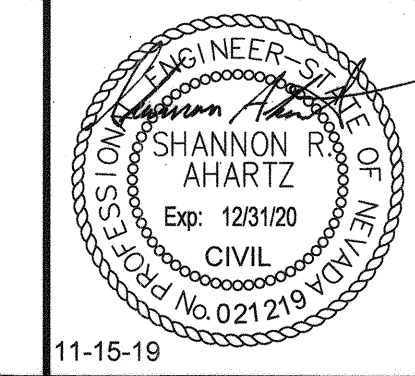
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UnderGround
Call before you dig
1-702-432-5300

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



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



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

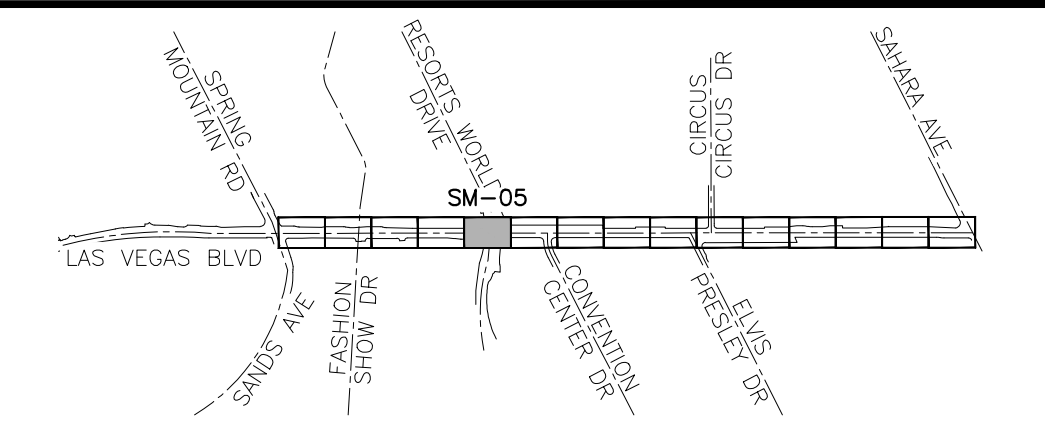
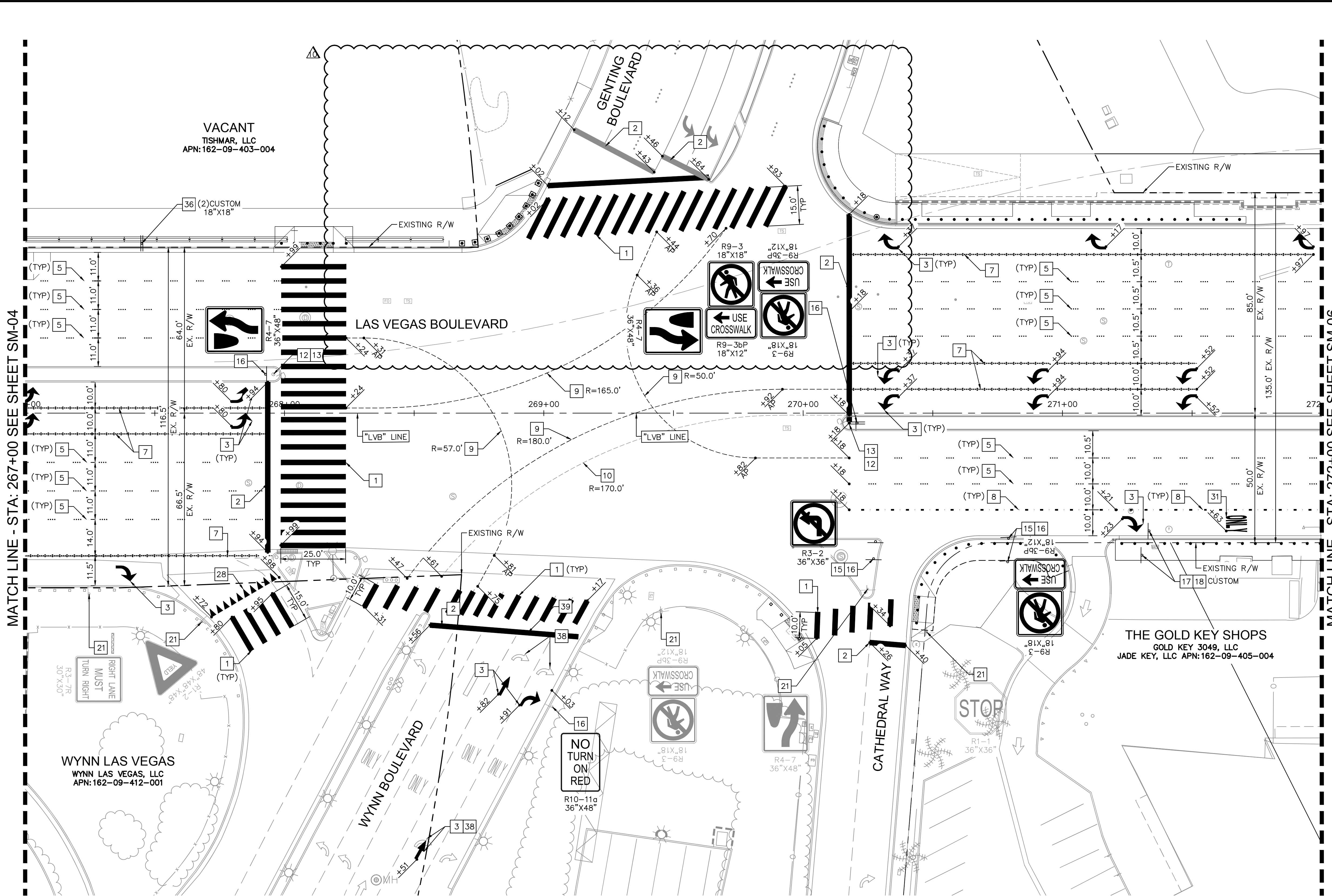
Kimley Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 20'	SM-04
VERT: N/A	SHEET 173 OF 345
FIELD BOOK: NONE	L-2210

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User: fernandez,rcs Path: K:\work\pubworks\signal\CAD\plansheets\092019\021-SM.dwg / This document, together with the concepts and designs presented herein, is an instrument of service, 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.

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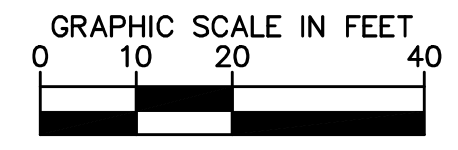
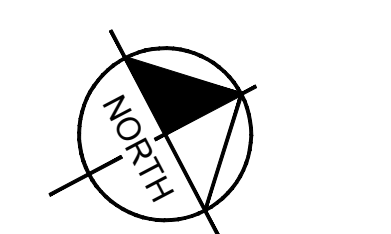


KEY MAP
 NTS

SIGNING AND MARKING NOTES

- 1 INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
- 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 8 INSTALL DROP LINE TYPE LANE LINE PER CCAUSD DWG NO. 246.6
- 9 INSTALL "CAT TRACK" PAVEMENT MARKING PATTERN (WHITE POLYUREA PAINT) PER DETAIL 2 ON SHEET SM-16
- 10 INSTALL "CAT TRACK" PAVEMENT MARKING PATTERN (YELLOW POLYUREA PAINT) PER DETAIL 2 ON SHEET SM-16
- 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
- 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
- 15 REMOVE EXISTING SIGN POST AND PANEL
- 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 17 REMOVE EXISTING SIGN POST AND PANEL, SIGN TO BE SALVAGED
- 18 INSTALL SALVAGED SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 21 EXISTING SIGN AND POST. PROTECT IN PLACE
- 28 INSTALL YIELD LINE (TYPE II - PAVEMENT MARKING FILM) PER DETAIL 7 ON SHEET SM-16
- 31 INSTALL "ONLY" SYMBOL (TYPE II - WHITE PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246.6
- 36 INSTALL NEW CUSTOM PERMANENT ORDINANCE SIGN PANEL PER DETAIL 5 ON SHEET SM-16 ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 38 REMOVE EXISTING ARROW SYMBOL
- 39 REMOVE EXISTING STOP BAR

NOTE:
 1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



SAFETY ALERT
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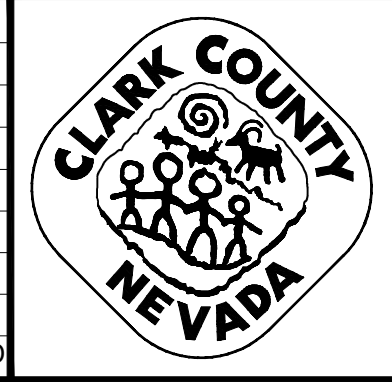
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 Call Before You Dig
 1-800-336-9193

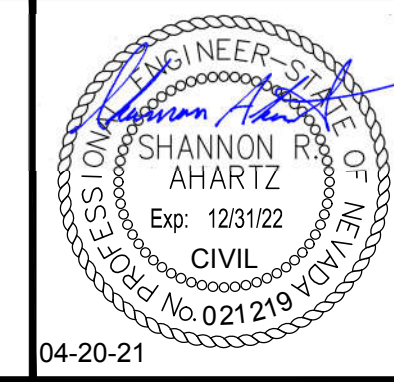
Call before you UnderGround
 1-702-432-5300

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

APPROVED



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



DESIGNED BY: FAR
 DRAWN BY: CKK
 CHECKED BY: SRA
 DATE: 04-20-2021

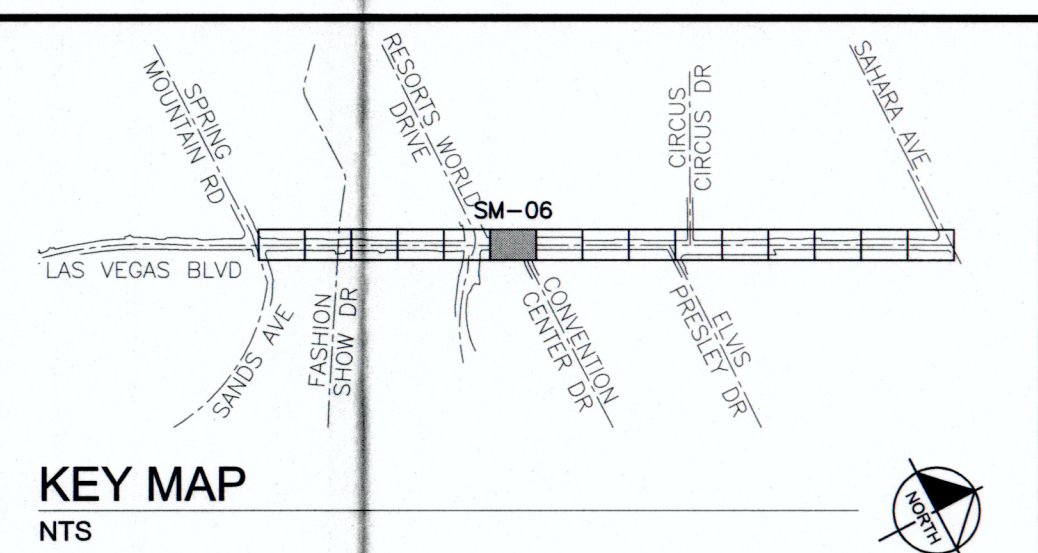
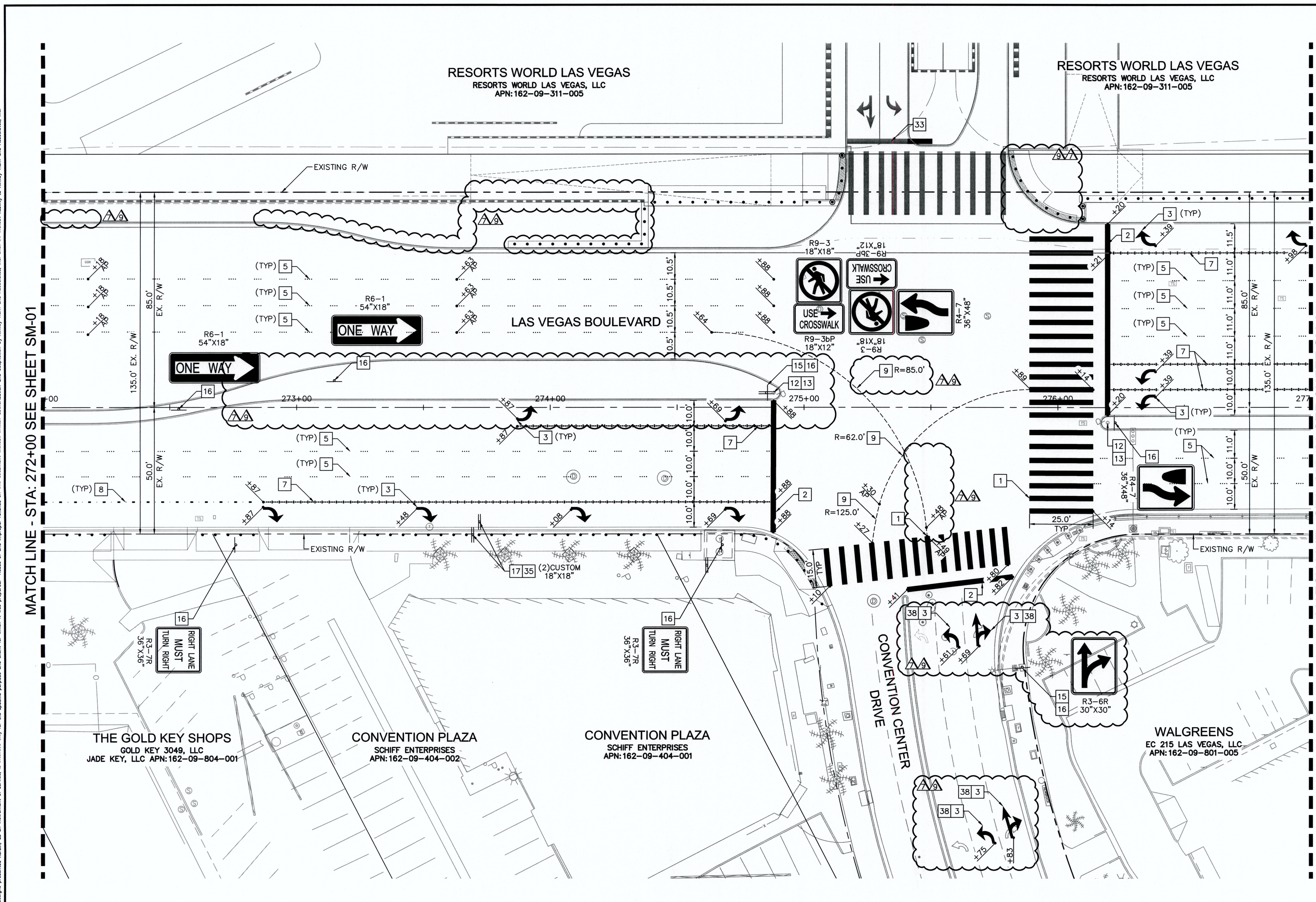
Kimley Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 20'	SM-05
VERT: N/A	SHEET 174 OF 345
FIELD BOOK NONE	L-2210

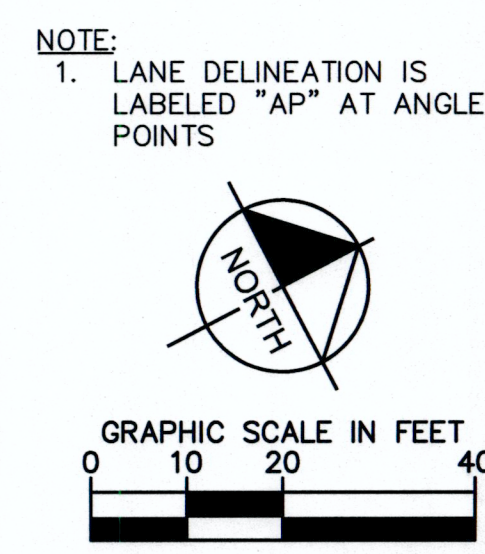
ISSUED FOR CONSTRUCTION

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

User: fernando.cruz
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- SIGNING AND MARKING NOTES**
- 1 INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
 - 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
 - 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
 - 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
 - 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
 - 8 INSTALL DROP LINE TYPE LANE LINE PER CCAUSD DWG NO. 246.6
 - 9 INSTALL "CAT TRACK" PAVEMENT MARKING PATTERN (WHITE POLYUREA PAINT) PER DETAIL 2 ON SHEET SM-16
 - 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
 - 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
 - 15 REMOVE EXISTING SIGN POST AND PANEL
 - 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
 - 17 REMOVE EXISTING SIGN POST AND PANEL, SIGN TO BE SALVAGED
 - 21 EXISTING SIGN AND POST. PROTECT IN PLACE
 - 30 INSTALL THRU ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246
 - 33 PROPOSED STRIPING BY OTHERS
 - 35 INSTALL SALVAGED CUSTOM PERMANENT ORDINANCE SIGN PANEL ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
 - 38 REMOVE EXISTING ARROW SYMBOL



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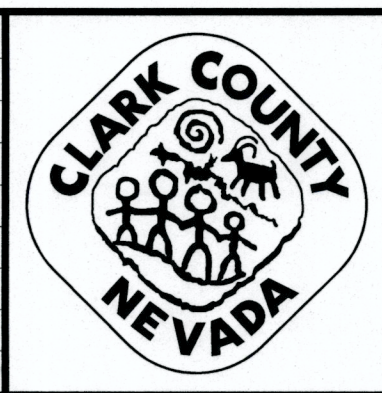
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1-800-336-9183

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

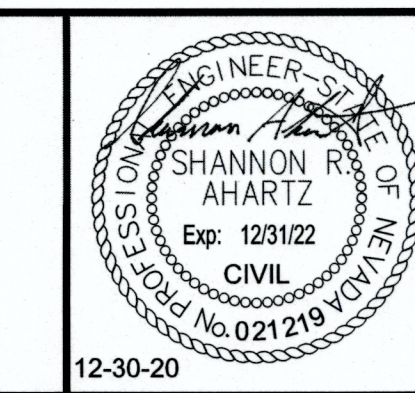
NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWLVL RELATED IMPROVEMENT REV	09/04/2020
4	RWLVL RELATED IMPROVEMENT REV <i>WWW</i>	12/30/2020

APPROVED



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: FAR
 DRAWN BY: CKK
 CHECKED BY: SRA
 DATE: 12-30-2020

Kimley Horn
 6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 862-5600

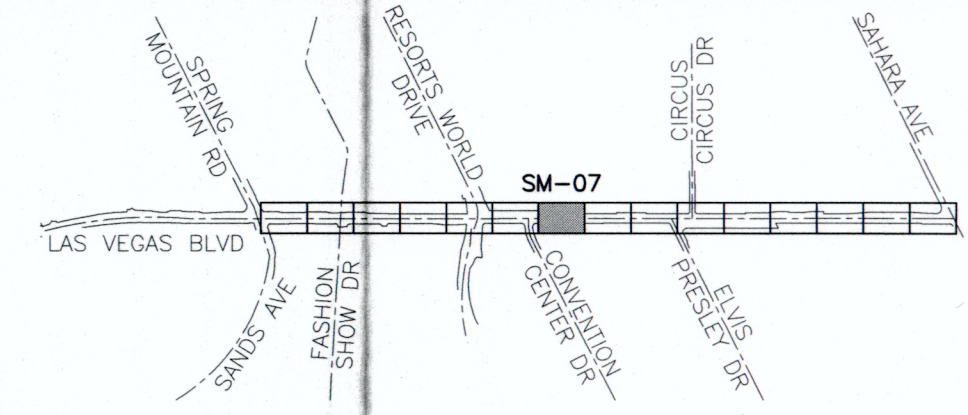
SCALE	HORIZ: 1" = 20'	SHEET No.
	VERT: N/A	SM-06
FIELD BOOK: NONE		SHEET 175 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

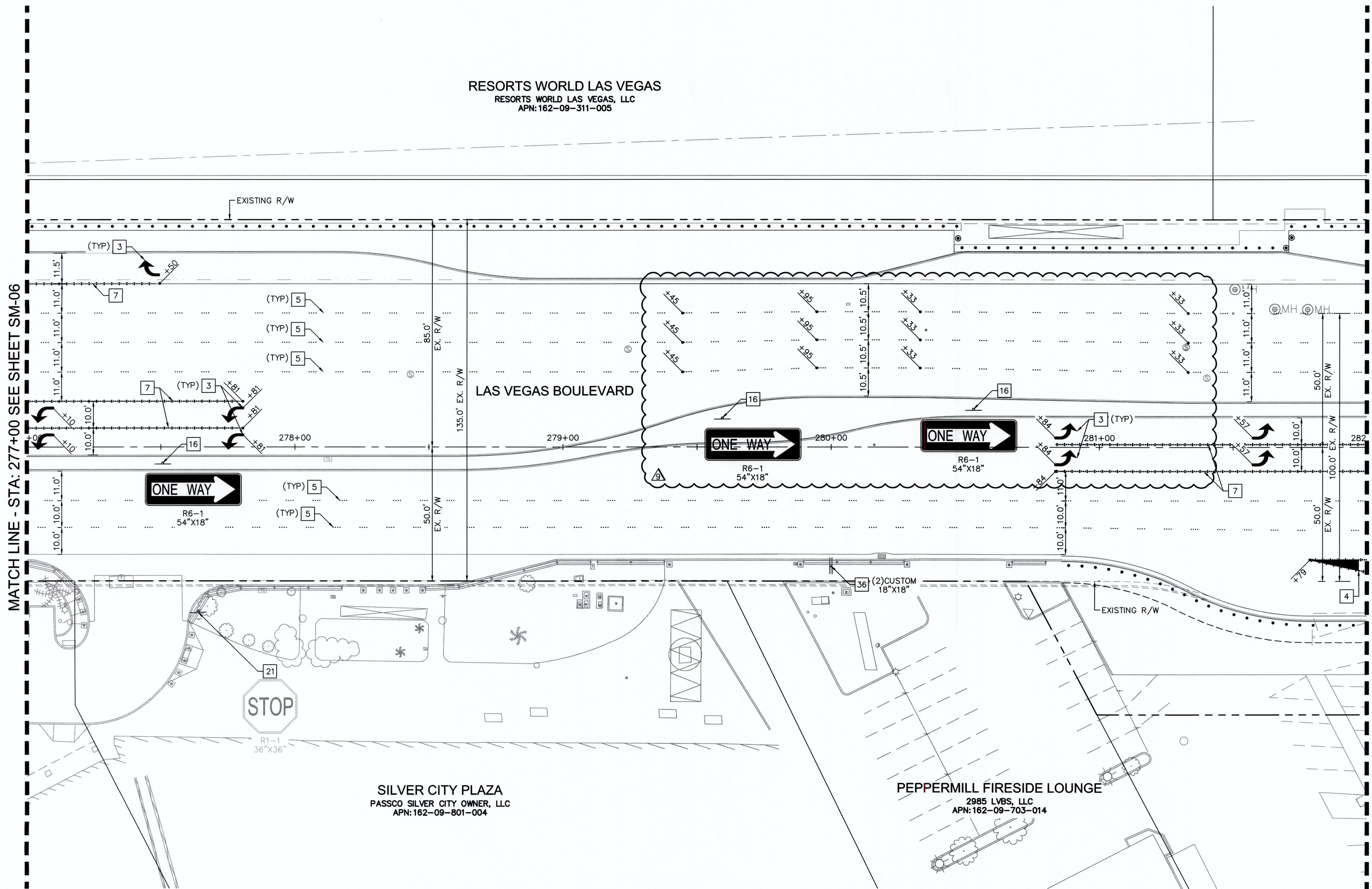
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RESORTS WORLD LAS VEGAS, LLC
APN: 162-09-311-005



KEY MAP
NTS

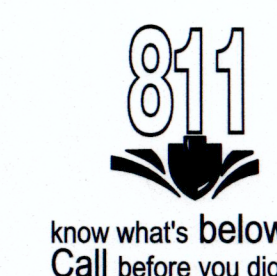
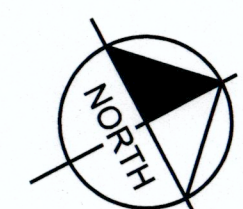
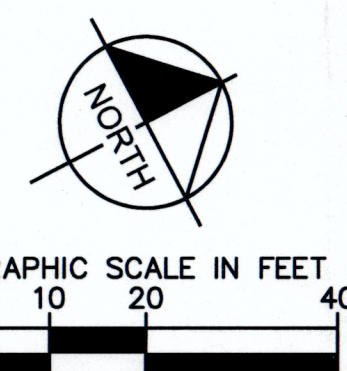
SIGNING AND MARKING NOTES

- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 4 INSTALL 24" CHEVRON MARKING (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 245
- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 21 EXISTING SIGN AND POST. PROTECT IN PLACE
- 36 INSTALL NEW CUSTOM PERMANENT ORDINANCE SIGN PANEL PER DETAIL 5 ON SHEET SM-16 ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL



MATCH LINE - STA: 277+00 SEE SHEET SM-06

MATCH LINE - STA: 282+00 SEE SHEET SM-08



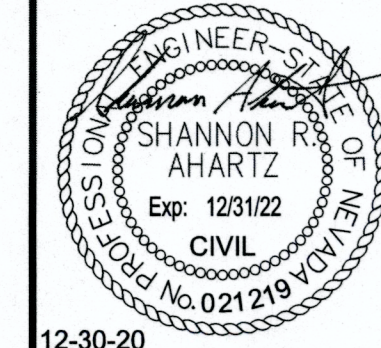
SAFETY ALERT
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWLW RELATED IMPROVEMENT REV LVVW: M. 01/19/2021	12/30/2020
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: FAR
DRAWN BY: CKK
CHECKED BY: SRA
DATE: 12-30-2020

Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89115 Tel. No. (702) 862-3600

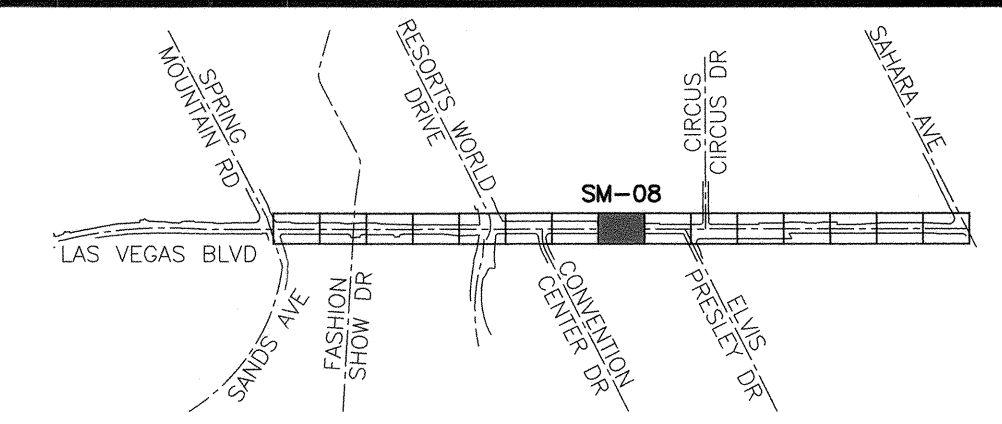
SCALE	SHEET No
HORIZ: 1" = 20'	SM-07
VERT: N/A	SHEET 176 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.roez Path: K:\LAV_Public\Trams\092206_162-09-311-005\Roadway-Signing\092206\021-SM.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.

BID No.: 605203-19

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

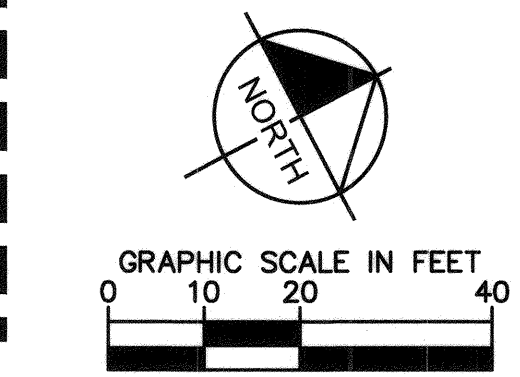


KEY MAP
NTS

SIGNING AND MARKING NOTES

- 1 INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
- 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 4 INSTALL 24" CHEVRON MARKING (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 245
- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 8 INSTALL DROP LINE TYPE LANE LINE PER CCAUSD DWG NO. 246.6
- 9 INSTALL "CAT TRACK" PAVEMENT MARKING PATTERN (WHITE POLYUREA PAINT) PER DETAIL 2 ON SHEET SM-16
- 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
- 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
- 15 REMOVE EXISTING SIGN POST AND PANEL
- 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 22 INSTALL "BUSES ONLY" MARKING (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 234.1
- 23 INSTALL 6" SOLID WHITE LINE (TYPE I - WHITE POLYUREA PAINT)
- 26 INSTALL SALVAGED RTC BUS STOP SIGN POST AND PANEL
- 31 INSTALL "ONLY" SYMBOL (TYPE II - WHITE PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246.6
- 33 PROPOSED STRIPING BY OTHERS

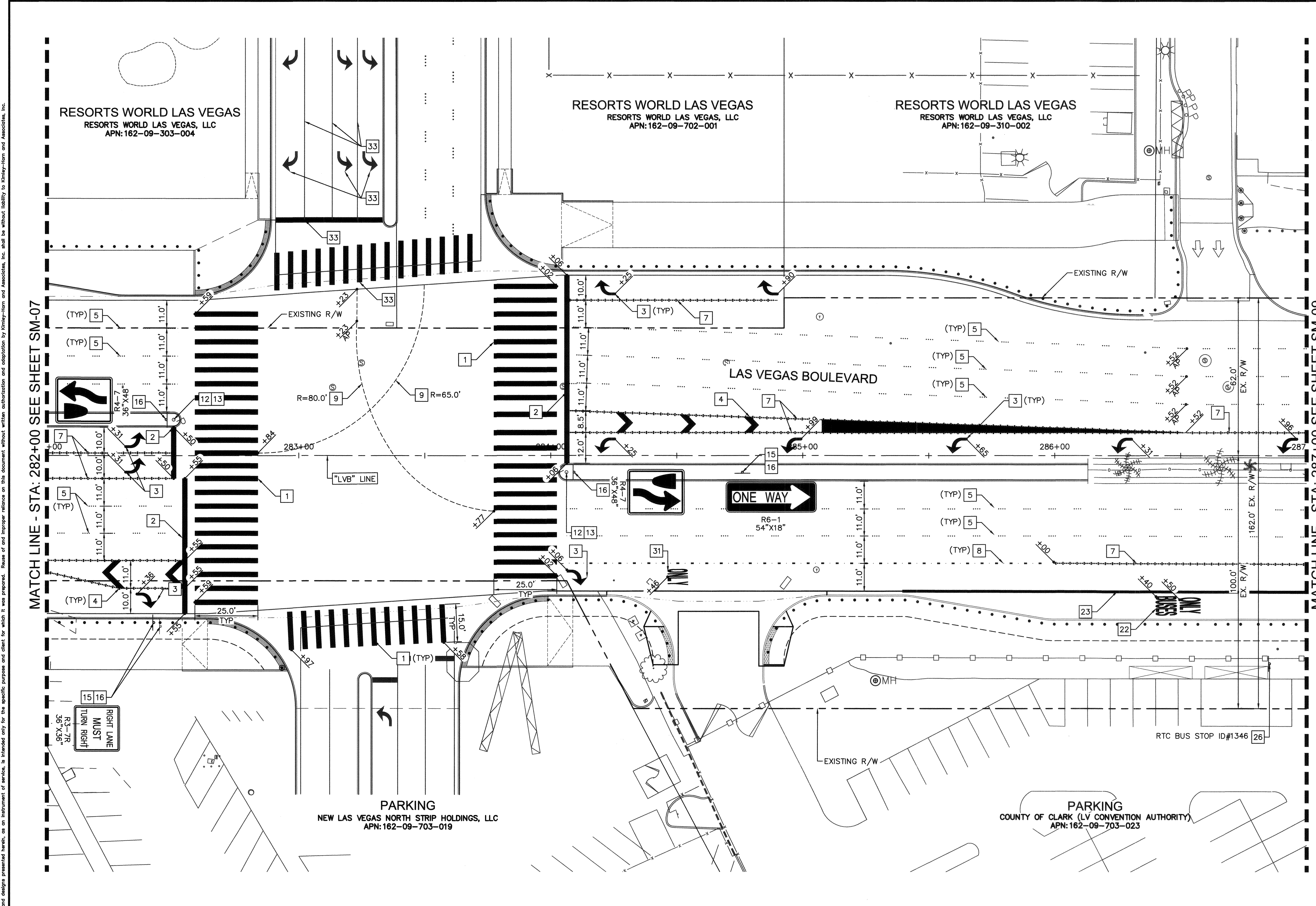
NOTE:
1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



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RESORTS WORLD LAS VEGAS
RESORTS WORLD LAS VEGAS, LLC
APN: 162-09-303-004

RESORTS WORLD LAS VEGAS
RESORTS WORLD LAS VEGAS, LLC
APN: 162-09-702-001

RESORTS WORLD LAS VEGAS
RESORTS WORLD LAS VEGAS, LLC
APN: 162-09-310-002

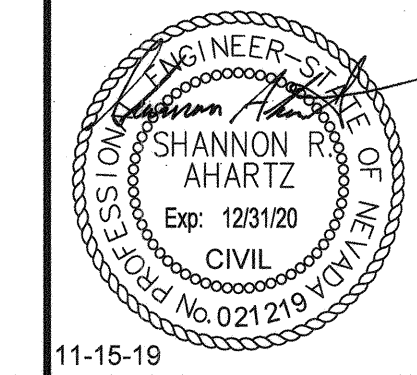
PARKING
NEW LAS VEGAS NORTH STRIP HOLDINGS, LLC
APN: 162-09-703-019

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
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ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

Kimley»Horn
8771 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89115
Tel. No. (702) 862-3800

SCALE	SHEET No
HORIZ: 1" = 20'	SM-08
VERT: N/A	SHEET 177 OF 345
FIELD BOOK NONE	L-2210

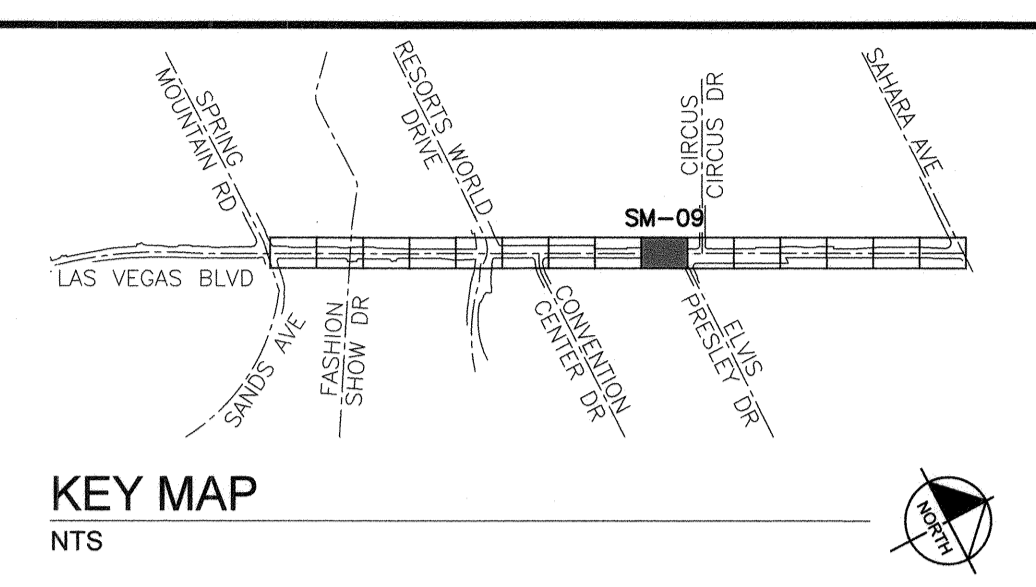
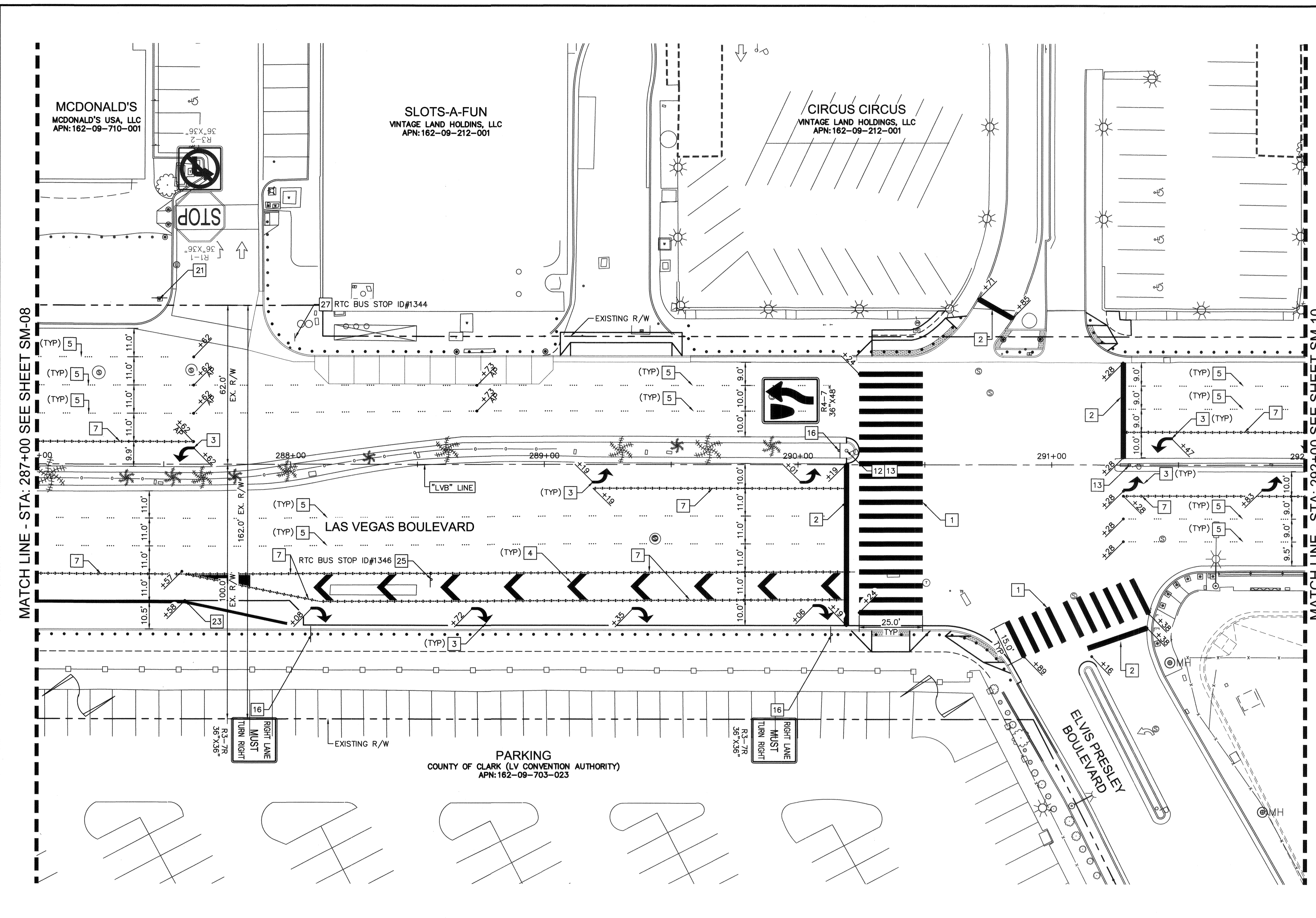
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User: fernando.cruz
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

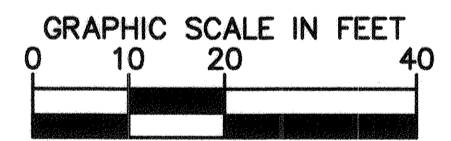
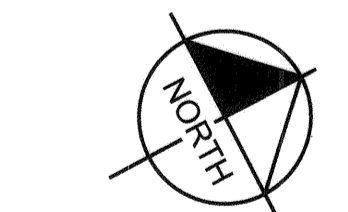
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- SIGNING AND MARKING NOTES**
- 1 INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
 - 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
 - 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
 - 4 INSTALL 24" CHEVRON MARKING (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 245
 - 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
 - 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
 - 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
 - 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
 - 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
 - 21 EXISTING SIGN AND POST. PROTECT IN PLACE
 - 23 INSTALL 6" SOLID WHITE LINE (TYPE I - WHITE POLYUREA PAINT)
 - 25 REMOVE AND SALVAGE EXISTING RTC BUS STOP SIGN POST AND PANEL
 - 27 EXISTING RTC BUS STOP SIGN POST AND PANEL, PROTECT IN PLACE

NOTE:

1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



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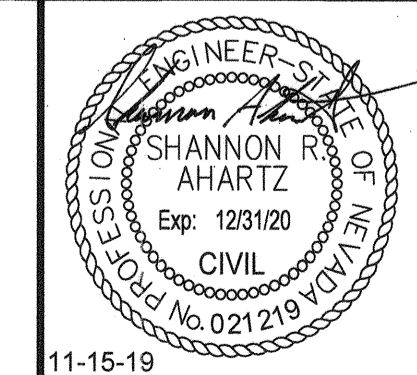
UnderGround
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019

APPROVED



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

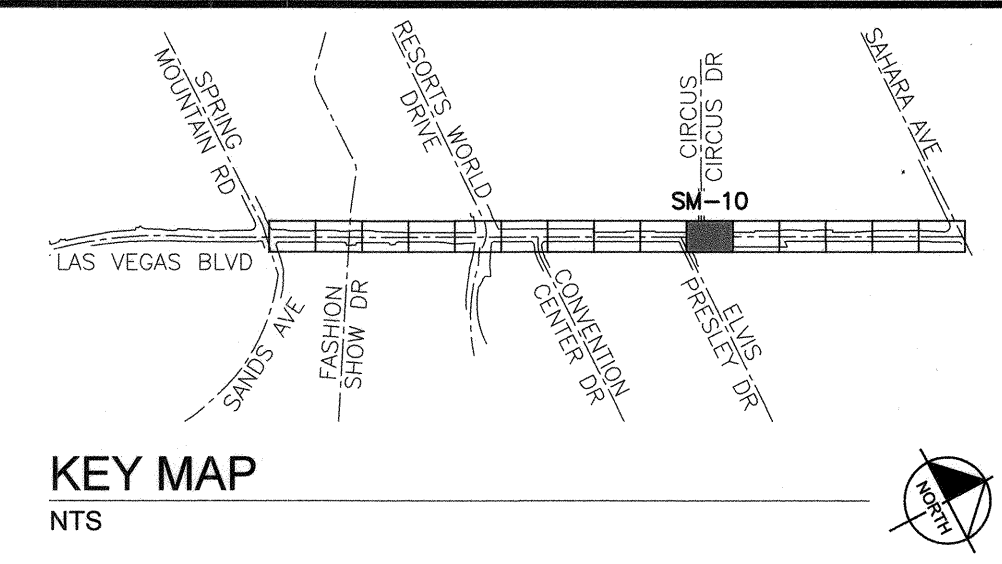
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Las Vegas, Nevada 89119 Tel. No. (702) 862-5900

SCALE	HORIZ: 1" = 20'	SHEET No
	VERT: N/A	SM-09
FIELD BOOK	NONE	SHEET 178 OF 345
		L-2210

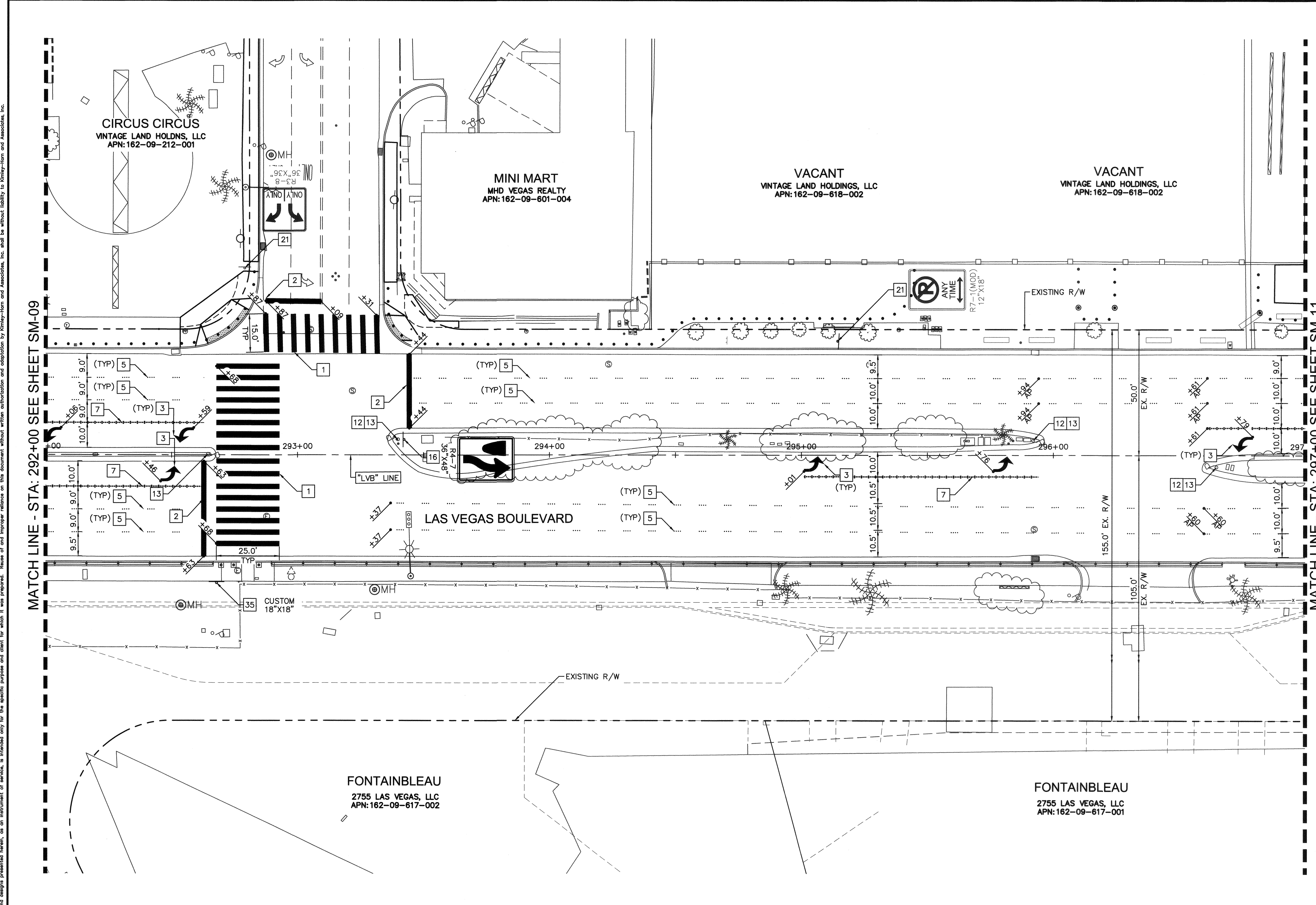
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

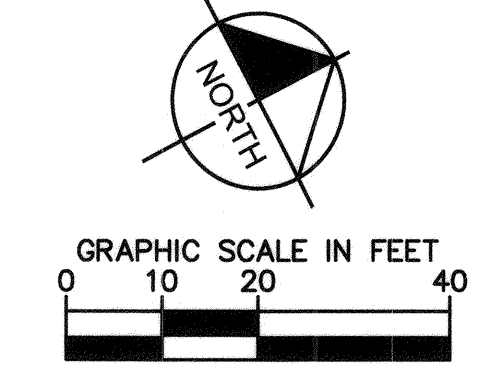


- SIGNING AND MARKING NOTES**
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 - 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
 - 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
 - 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
 - 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
 - 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
 - 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
 - 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
 - 21 EXISTING SIGN AND POST. PROTECT IN PLACE
 - 35 INSTALL SALVAGED CUSTOM PERMANENT ORDINANCE SIGN PANEL ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL



NOTE:

- 1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



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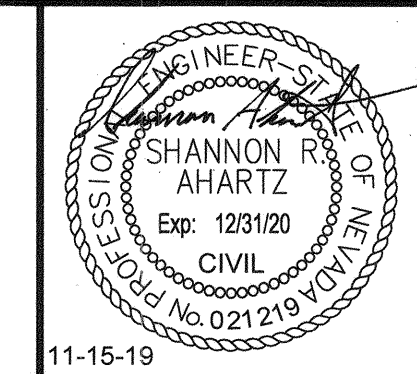
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

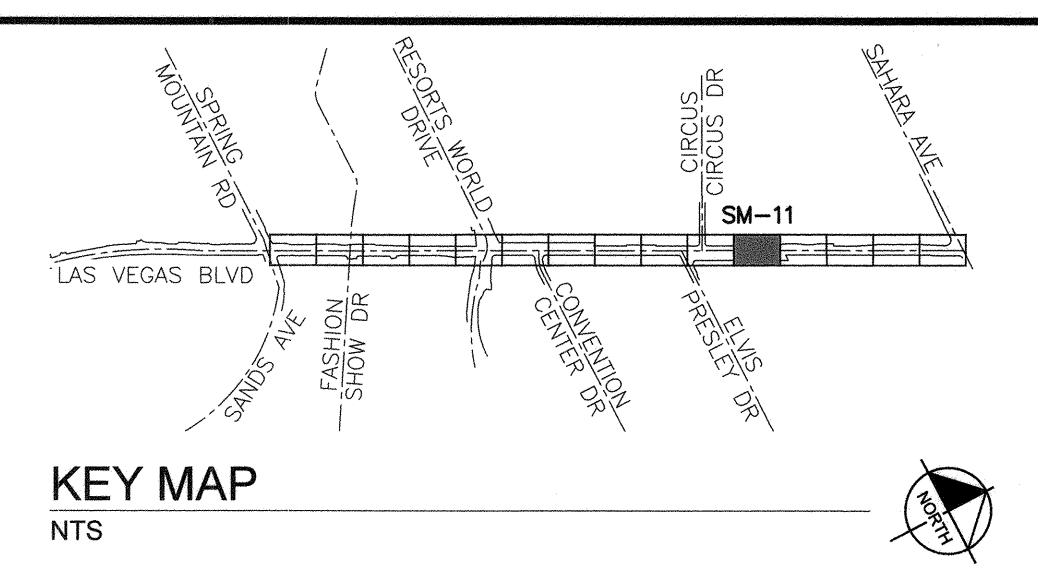
SCALE	HORIZ: 1" = 20'	SHEET No
	VERT: N/A	SM-10
FIELD BOOK	NONE	SHEET 179 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

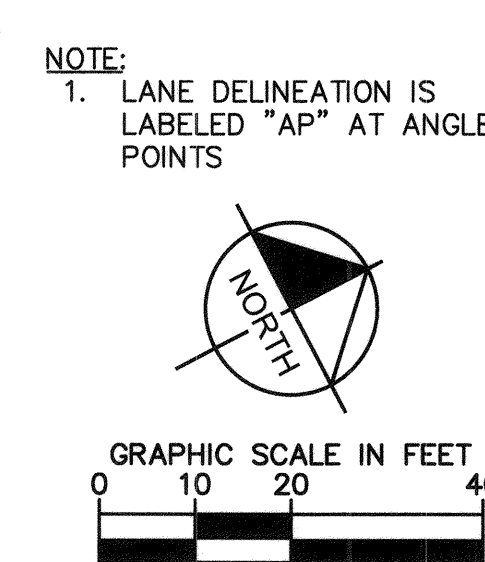
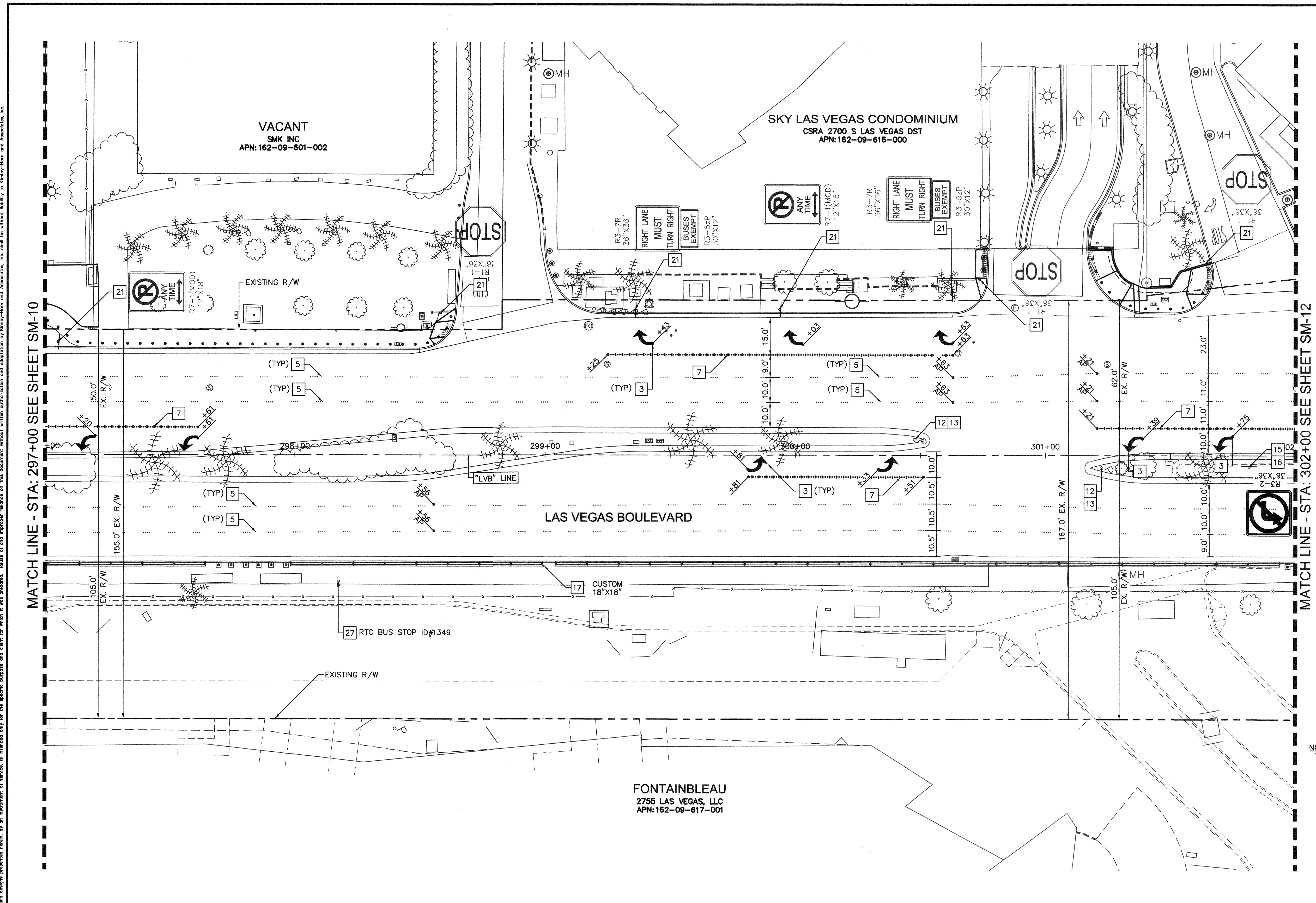
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



- SIGNING AND MARKING NOTES**
- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
 - 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
 - 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
 - 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
 - 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
 - 15 REMOVE EXISTING SIGN POST AND PANEL
 - 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
 - 17 REMOVE EXISTING SIGN POST AND PANEL, SIGN TO BE SALVAGED
 - 21 EXISTING SIGN AND POST. PROTECT IN PLACE
 - 27 EXISTING RTC BUS STOP SIGN POST AND PANEL, PROTECT IN PLACE



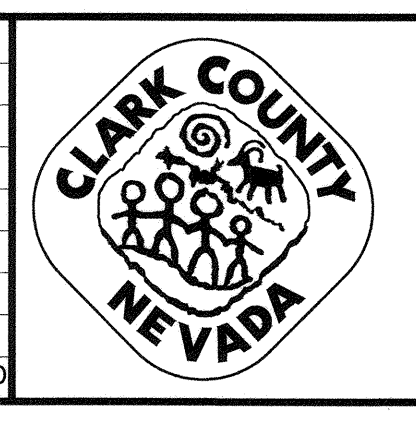
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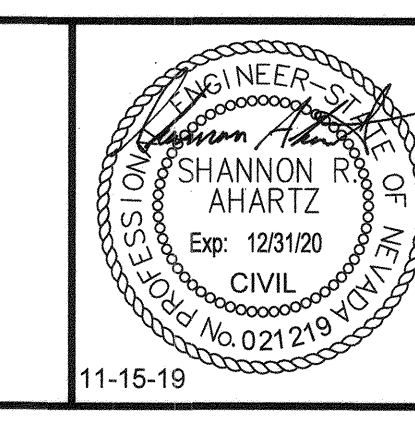
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
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**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

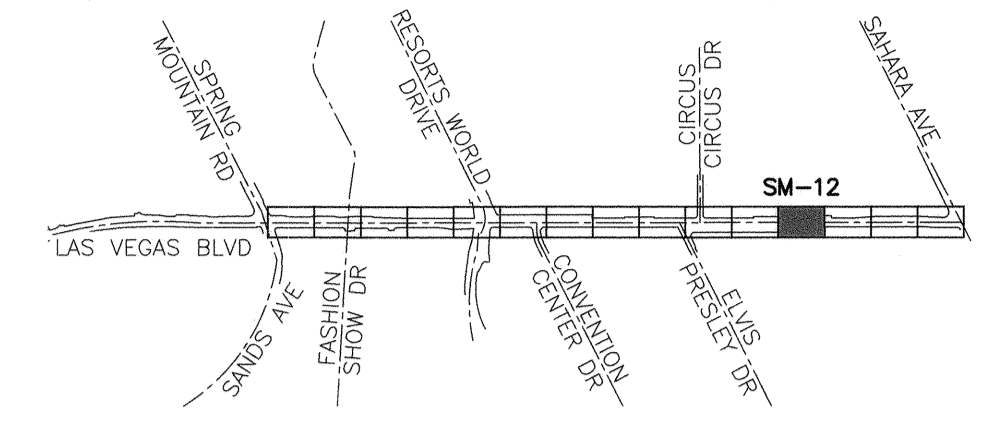
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SCALE		SHEET No
HORIZ:	1" = 20'	SM-11
VERT:	N/A	SHEET 180 OF 345
FIELD BOOK	NONE	L-2210

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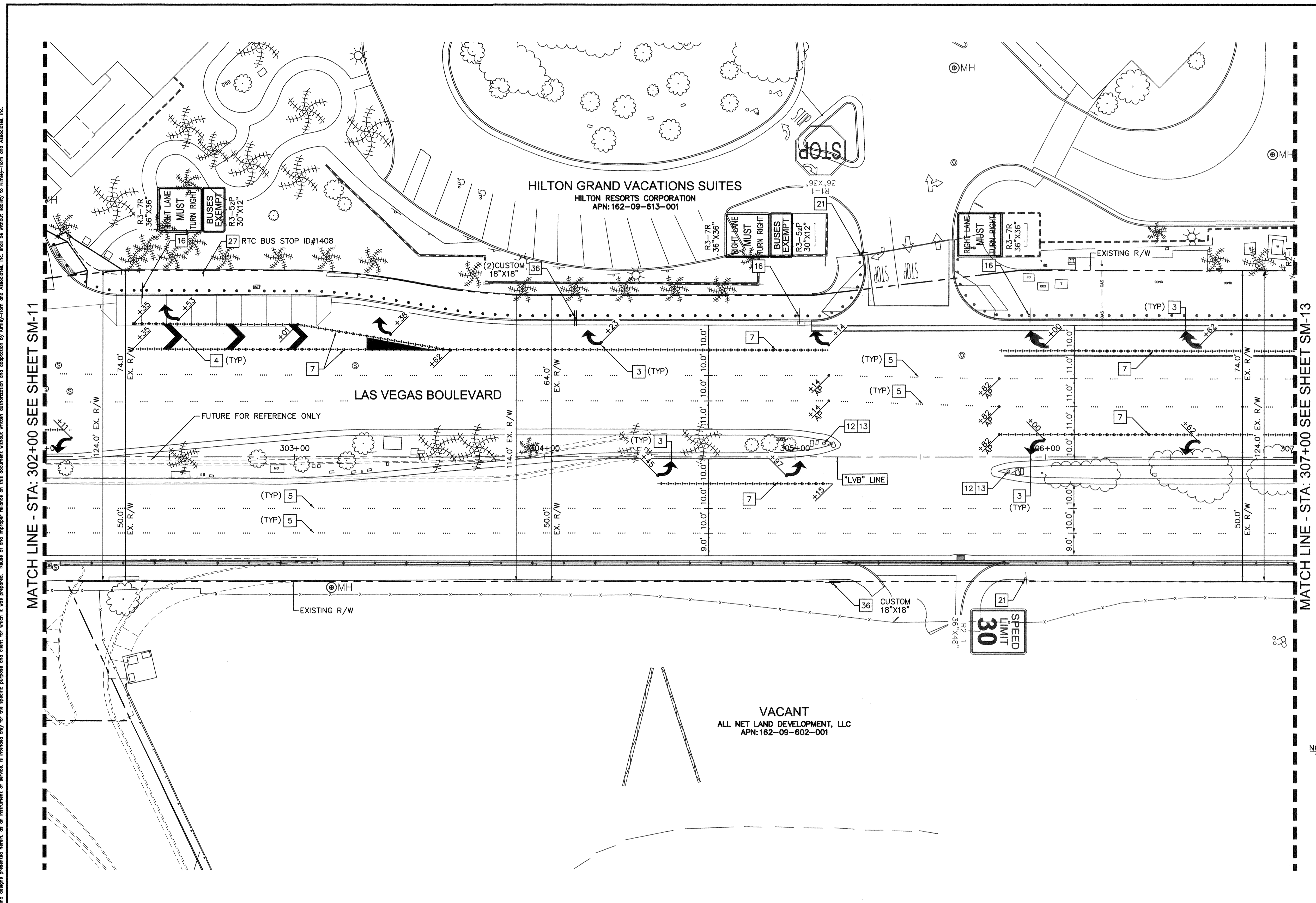
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

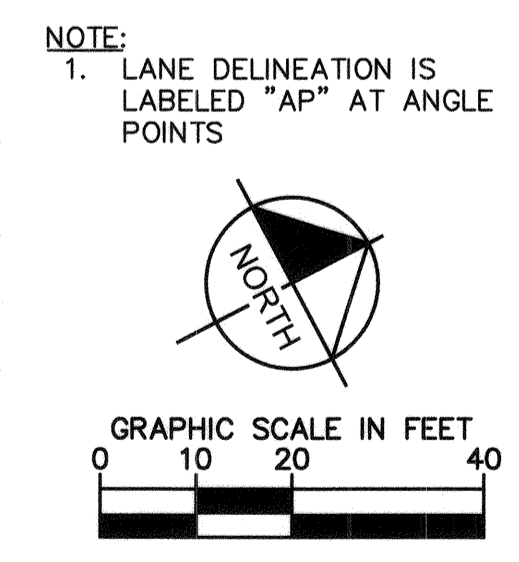
SIGNING AND MARKING NOTES

- 3] INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 4] INSTALL 24" CHEVRON MARKING (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 245
- 5] INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 7] INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 12] INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
- 13] INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
- 16] INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 21] EXISTING SIGN AND POST. PROTECT IN PLACE
- 27] EXISTING RTC BUS STOP SIGN POST AND PANEL, PROTECT IN PLACE
- 36] INSTALL NEW CUSTOM PERMANENT ORDINANCE SIGN PANEL PER DETAIL 5 ON SHEET SM-16 ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL



MATCH LINE - STA: 302+00 SEE SHEET SM-11

MATCH LINE - STA: 307+00 SEE SHEET SM-13



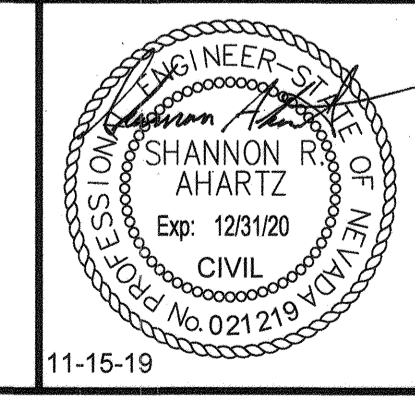
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**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

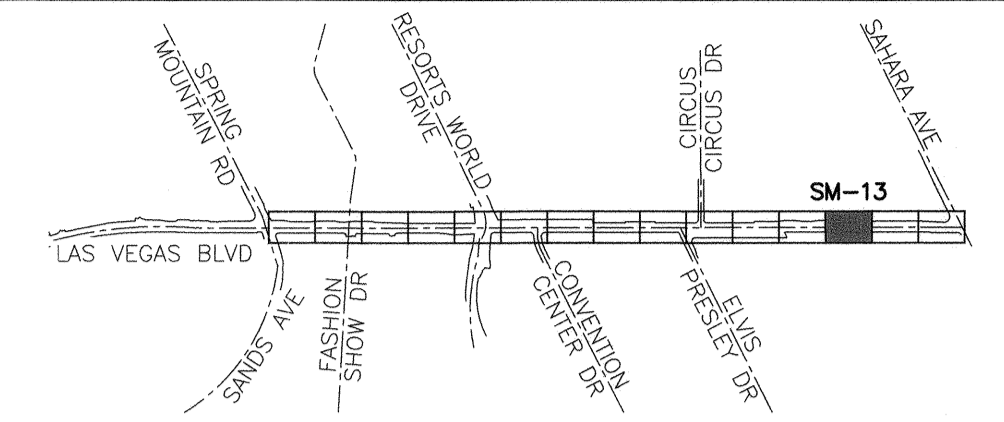
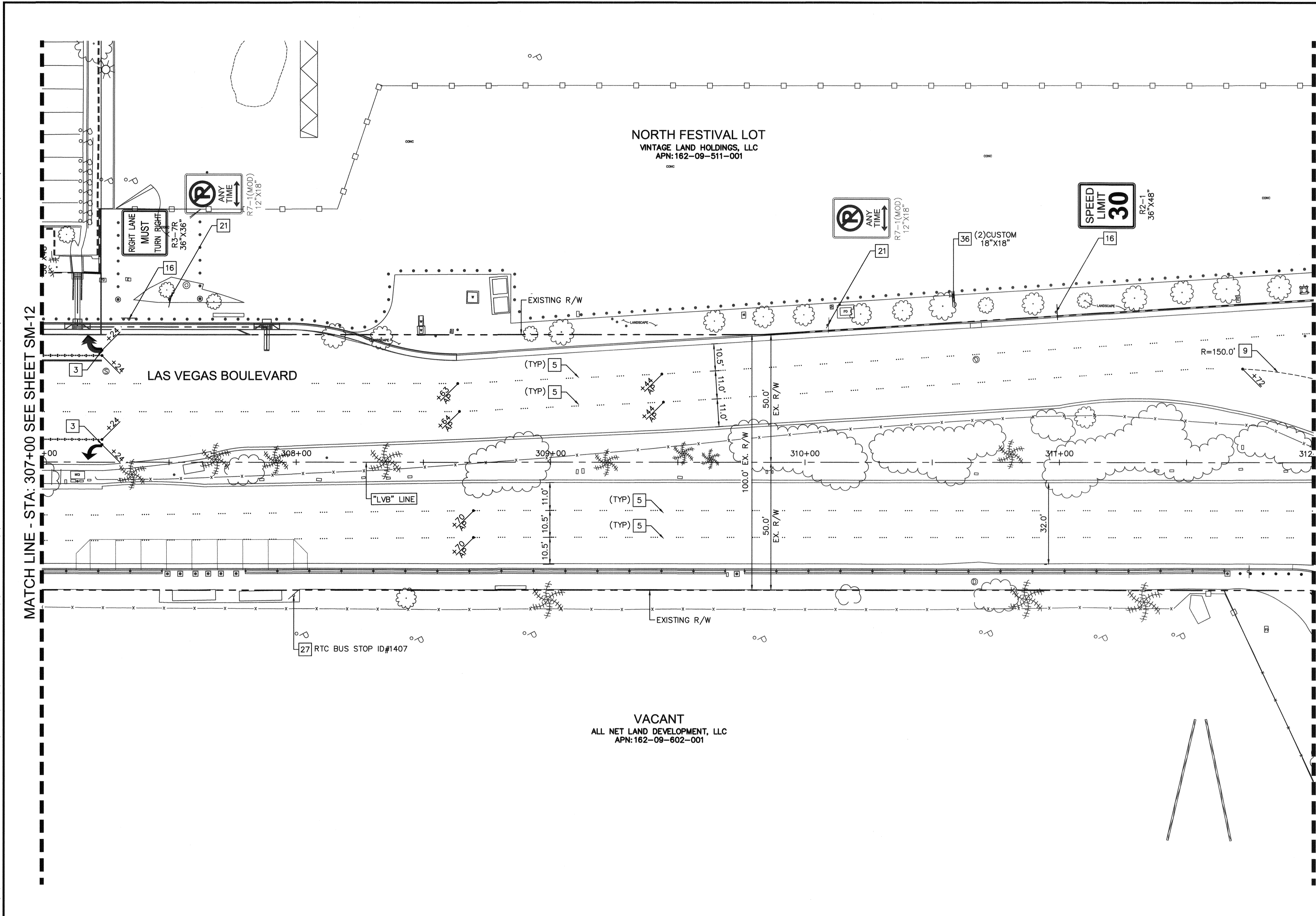
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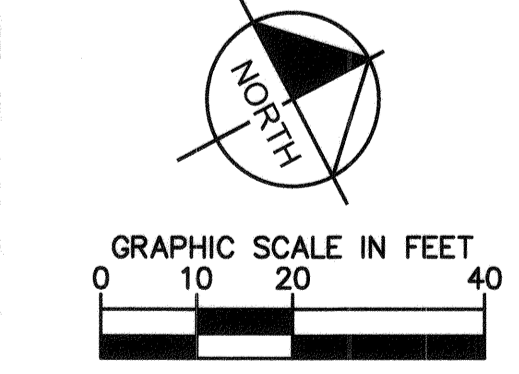


KEY MAP
NTS

SIGNING AND MARKING NOTES

- 3] INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 5] INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 9] INSTALL "CAT TRACK" PAVEMENT MARKING PATTERN (WHITE POLYUREA PAINT) PER DETAIL 2 ON SHEET SM-16
- 16] INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
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- 27] EXISTING RTC BUS STOP SIGN POST AND PANEL, PROTECT IN PLACE
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NOTE:
1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



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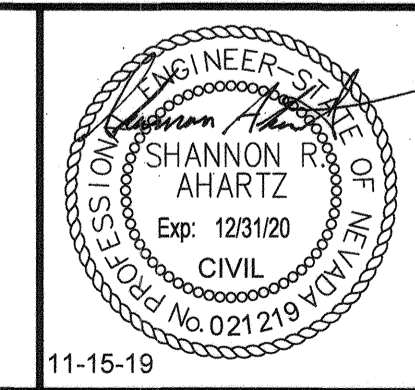
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LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 SIGNING AND MARKING PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

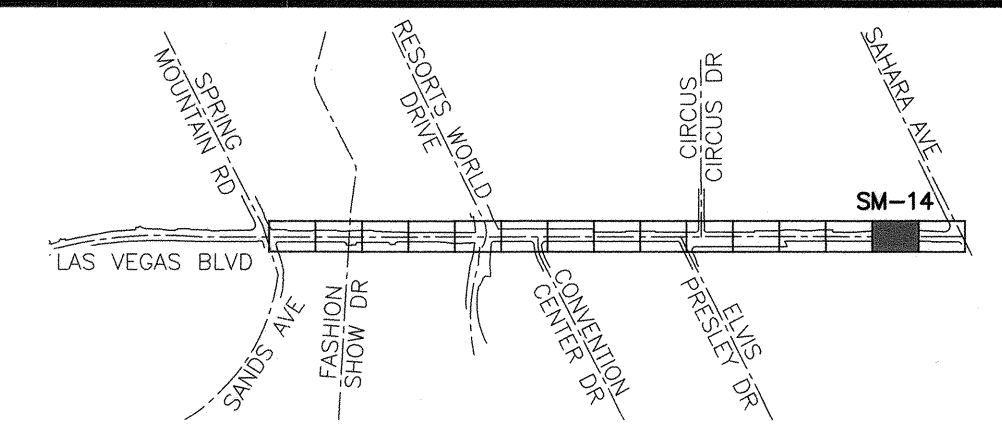
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 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	HORIZ: 1" = 20'	SHEET No	SM-13
	VERT: N/A		
FIELD BOOK	NONE		
			SHEET 182 OF 345
			L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

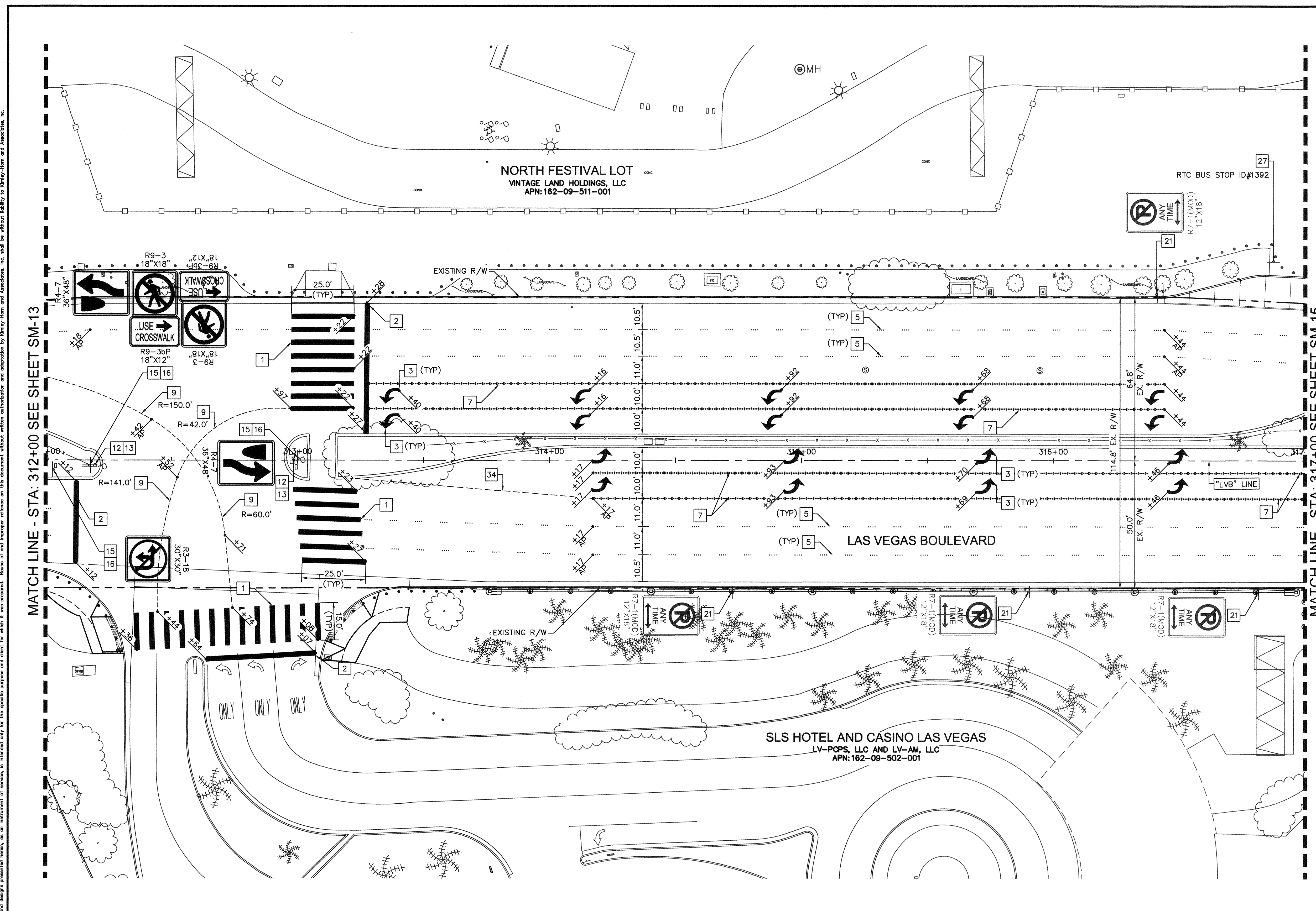
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



KEY MAP
NTS

SIGNING AND MARKING NOTES

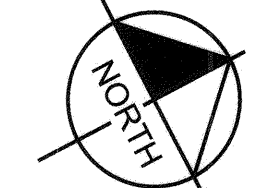
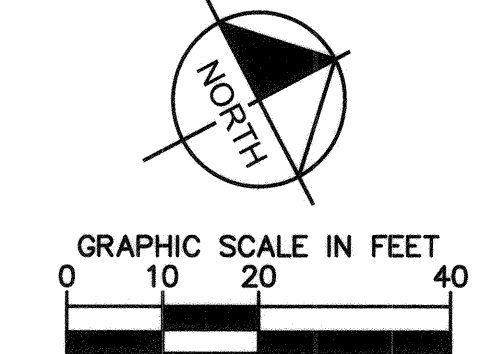
- 1 INSTALL CROSSWALK MARKING (TYPE II - FILM) PER CCAUSD DWG NO. 254
- 2 INSTALL 24" STOP BAR (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 254
- 3 INSTALL ARROW SYMBOL (TYPE II - PAVEMENT MARKING FILM) PER CCAUSD DWG NO. 246 AND DETAIL 1 ON SHEET SM-16
- 5 INSTALL TYPE 4 LANE LINE (RPM) PER CCAUSD DWG NO. 244.1
- 7 INSTALL STORAGE LANE LINE (RPM) PER CCAUSD DWG NO. 246.6
- 9 INSTALL "CAT TRACK" PAVEMENT MARKING PATTERN (WHITE POLYUREA PAINT) PER DETAIL 2 ON SHEET SM-16
- 12 INSTALL MEDIAN NOSE MARKINGS PER DETAIL 6 ON SHEET SM-16
- 13 INSTALL K71 FLEXIBLE MARKER POST (YELLOW) PER DETAIL 4 ON SHEET SM-16
- 15 REMOVE EXISTING SIGN POST AND PANEL
- 16 INSTALL NEW SIGN ON NEW POST W/ BREAK OUT FLUSH MOUNT SQUARE SIGN POST COUPLER OR APPROVED EQUAL
- 21 EXISTING SIGN AND POST. PROTECT IN PLACE
- 27 EXISTING RTC BUS STOP SIGN POST AND PANEL, PROTECT IN PLACE
- 34 INSTALL 6" x 2' SKIP WHITE LINE 8' ON CENTER PER DETAIL 3 ON SHEET SM-16



MATCH LINE - STA: 312+00 SEE SHEET SM-13

MATCH LINE - STA: 317+00 SEE SHEET SM-15

NOTE:
1. LANE DELINEATION IS LABELED "AP" AT ANGLE POINTS



811
know what's below
Call before you dig

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

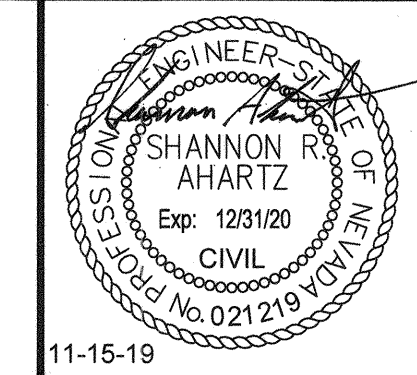
UNION PACIFIC RAILROAD
Call Before You Dig
1-800-336-9199

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		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SIGNING AND MARKING PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: FAR
DRAWN BY: CKK
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" = 20'	SM-14
VERT: N/A	SHEET 183 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

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BID No.: 605203-19

GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY SIZE, TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTING SIGNAL POLE FOUNDATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY VARIANCES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL INSTALL RED MARKING TAPE 18" BELOW GRADE, ABOVE ALL PROPOSED CONDUITS.
3. CONTRACTOR SHALL VERIFY ALL UTILITY CONFLICTS AND OBSTACLES PRIOR TO TRENCHING OR DIGGING.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, FROM DAMAGE. ALL IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESIDENT ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
5. CONTRACTOR TO COORDINATE LOCATIONS OF PROPOSED PULL BOXES TO BE ADJACENT TO SIDEWALK JOINTS AND SCORING PATTERN LINES.
6. EXISTING TRAFFIC SIGNALS MUST REMAIN OPERATIONAL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE UNIFORMED TRAFFIC CONTROL OFFICERS AT ALL TIMES WHEN THE TRAFFIC SIGNAL CANNOT REMAIN OPERATIONAL UNLESS ANOTHER METHOD IS APPROVED BY CLARK COUNTY.
7. PULL BOX AND VAULT LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE APPROVED IN THE FIELD BY THE RESIDENT ENGINEER.
8. CONTRACTOR TO STAKE FOUNDATION LOCATIONS FOR APPROVAL BY RESIDENT ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR TO POTHOLE NEW FOUNDATION LOCATIONS PRIOR TO CONSTRUCTION TO IDENTIFY ALL SUBSURFACE CONFLICTS. IF CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL WORK WITH THE RESIDENT ENGINEER TO DETERMINE AN ALTERNATE FOUNDATION LOCATION.

TRAFFIC SIGNAL NOTES

GENERAL

- 0. THESE NOTES ARE EFFECTIVE AS OF 01/15/15 AND SHALL SUPERSEDE ALL PREVIOUS VERSIONS.
1. THE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SHALL BE IN ACCORDANCE TO THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
2. INSTALLATION OF TRAFFIC SIGNAL COMPONENTS SHALL BE SUPERVISED BY A CERTIFIED IMSA LEVEL II TRAFFIC SIGNAL ELECTRICIAN OR LEVEL II TRAFFIC SIGNAL TECHNICIAN. THIS SHALL INCLUDE THE INSTALLATION OF ALL UNDERGROUND CONDUIT AND CONDUIT BENDS. A CLARK COUNTY-LICENSED JOURNEYMAN ELECTRICIAN SHALL MAKE ALL ELECTRICAL TERMINATIONS. CONTRACTOR PERFORMING WORK ON THE TRAFFIC SIGNAL SHALL HOLD A VALID C-2 ELECTRICAL LICENSE ISSUED BY THE STATE OF NEVADA.
3. TWO (2) WEEKS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CALL CLARK COUNTY TRAFFIC OPERATIONS AT (702) 455-6000 AND INFORM THE TRAFFIC SYSTEMS SUPERVISOR OF THE WORK START DATE FOR COORDINATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES AND INFRASTRUCTURES LIKELY TO BE AFFECTED BY THEIR WORK. THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE UTILITIES' OWNERS AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ANY DAMAGE OR MODIFICATION TO LANDSCAPE/IRRIGATION TO PRE- CONSTRUCTION CONDITION (MODIFIED LANDSCAPE SHALL BE PAID FOR AS PART OF TRAFFIC SIGNAL LUMP SUM).
6. REMOVAL AND REPLACEMENT OF ANY CURB, GUTTER AND SIDEWALK REQUIRED TO INSTALL THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE INCLUDED IN THE LUMP SUM COST OF THE TRAFFIC SIGNAL.
7. CONTRACTOR SHALL RESTORE ALL PAVEMENT MARKINGS DAMAGED DUE TO OR BY CONSTRUCTION OR AS SHOWN ON THE PLANS. THE TRAFFIC SIGNAL SHALL NOT BE ENERGIZED WITHOUT THE PROPER PAVEMENT MARKINGS IN-PLACE.
8. ALL STOP SIGNS, STOP AHEAD SIGNS AND/OR FLASHING BEACON ASSEMBLIES OR ANY OTHER TRAFFIC CONTROL DEVICES THAT MAY BE IN CONFLICT WITH THE TRAFFIC SIGNAL SHALL BE REMOVED AT TIME OF TRAFFIC SIGNAL ACTIVATION AND RETURNED TO THE CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122. THE CONTRACTOR SHALL REMOVE SIGN POSTS AND POST ANCHORS AND PATCH HOLES WITH CONCRETE.
9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL INSTALLED INDUCTION LOOPS AND ENSURING THAT THE FRONT EDGE OF EACH STOP BAR IS LOCATED TWO (2) FEET BEHIND THE FRONT EDGE OF THE INDUCTION LOOP.
10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL EXISTING INDUCTION LOOPS AND HOME RUNS ON THE PULL BOXES ARE IN OPERATIONAL CONDITION ON THE FIRST DAY OF CONSTRUCTION. ANY LOOPS AND/OR HOME RUNS THAT ARE DAMAGED SHALL BE REPORTED IN WRITING TO THE TRAFFIC MANAGER IMMEDIATELY. AFTER WORK HAS COMMENCED, ANY DAMAGE TO EXISTING LOOPS AND HOME RUNS SHALL BE REPLACED AND/OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
11. ANY SIGN TEMPORARILY COVERED ON A MAST ARM SHALL BE MASKED WITH A COVER APPROVED BY THE CLARK COUNTY TRAFFIC MANAGER. TAPE SHALL NOT BE APPLIED TO THE FACE OF ANY SIGN. ANY SIGN THAT HAS HAD TAPE APPLIED TO THE REFLECTIVE SURFACE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. ALL MAST ARM MOUNTED SIGNS SHALL BE MOUNTED USING BACK-BRACING STRAPS. STRAPS SHALL BE ALUMINUM STRAPS OF A MINIMUM SIZE OF 1/8-INCH THICKNESS X 2-INCH WIDE. BRACKETS SHALL BE 12 GAUGE ZINC PLATED STAINLESS STEEL FLARED LEG BRACKET WITH 5/16-INCH DIAMETER STAINLESS STEEL THEFT-PROOF BOLT OR STANDARD HEX WASHER FACE BOLT. A FENDER WASHER OF A MINIMUM SIZE OF 1-INCH DIAMETER SHALL BE INSTALLED ON THE FRONT SIDE OF THE SIGN IN ADDITION TO THE NEOPRENE WASHER, AND ALSO BEHIND THE BRACKET STRAP, WITH LOCK AND NUT. SIGNS 24-INCH (WIDTH) OR SMALLER SHALL HAVE A MINIMUM OF ONE (1) STRAP. SIGNS 24-INCH (WIDTH) OR LARGER AND SMALLER THAN 48-INCH (WIDTH) SHALL HAVE A MINIMUM OF TWO (2) STRAPS. SIGNS 48-INCH (WIDTH) OR LARGER SHALL HAVE A MINIMUM OF THREE (3) STRAPS. DOUBLE PANEL SIGNS REQUIRE SPECIAL BRACKET MOUNTING SYSTEM, AND SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN NEVADA. SEE SIGN MOUNTING ILLUSTRATION IN THE UNIFORM STANDARD DRAWINGS FOR ADDITIONAL DETAILS.
13. TRAFFIC SIGNAL INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO LOOP DETECTORS, LOOP LEAD-IN CABLES, CONDUITS, CONDUCTORS, AND PULL BOXES MAY HAVE BEEN INSTALLED IN YOUR PROJECT AREA FOR EXISTING AND/OR FUTURE TRAFFIC SIGNAL SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TRAFFIC SIGNAL INFRASTRUCTURE WITHIN THE PROJECT LIMITS. ANY DAMAGE TO THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED AND/OR REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE TRAFFIC MANAGER AT THE CONTRACTOR'S EXPENSE.
14. CROSSWALKS SHALL BE INSTALLED IN A STRAIGHT LINE, WITH THE CENTER OF CROSSWALK EXTENDING FROM THE MIDDPOINT OF A SIDEWALK RAMP TO THE MIDDPOINT OF THE OTHER SIDEWALK RAMP. ANGLE POINTS ARE NOT PERMITTED.
15. CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED TRAFFIC SIGNAL POLES SHALL INCLUDE LUMINAIRE ARMS, LUMINAIRES, MAST ARMS, AND SIGNAL HEADS DISASSEMBLED FROM THE POLE AND LAMPS REMOVED AND DISPOSED OF PROPERLY. ALL SALVAGED STREETLIGHT POLES SHALL INCLUDE LUMINAIRE ARMS AND LUMINAIRES DISASSEMBLED FROM THE POLE, AND LAMPS REMOVED AND DISPOSED OF PROPERLY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. SALVAGED SIGNS THAT ARE ATTACHED TO SALVAGED SIGN POSTS, MAST ARMS OR SIGNAL POLES SHALL BE DISASSEMBLED AND SEPARATED FROM THE SIGN POSTS, MAST ARMS OR SIGNAL POLES PRIOR TO DELIVERY. ANY ITEMS TO BE RETURNED TO CLARK COUNTY TRAFFIC OPERATIONS SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD. THE TRANSMITTAL FORM SHALL INCLUDE THE ASSOCIATED PROJECT NAME AND NUMBER, AND A LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL (702) 455-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.
16. CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS 'CHUY' MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078 CELL OR 702-432-5300 GENERAL.
17. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT OR SPLICED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. JESUS 'CHUY' MARMOLEJO TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION.
18. ITS SYSTEM MUST REMAIN OPERATIONAL AT ALL TIMES. ANY TEMPORARY RELOCATIONS WILL NEED TO BE PROVIDED AND FAST APPROVAL TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN/TRANSFER COORDINATION.

CONDUITS / PULL BOXES / CABLES

- 100. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER OR CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED OR REPAIRED. THE TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO CLARK COUNTY TRAFFIC MANAGEMENT AND TO F.A.S.T. ANY DAMAGE TO ANY INTERCONNECT CABLE IS DEEMED AN EMERGENCY BY CLARK COUNTY, F.A.S.T., CITY OF LAS VEGAS, CITY OF NORTH LAS VEGAS, CITY OF HENDERSON, AND NDOT AND MUST BE REPORTED AND REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE.
101. DAMAGES MAY BE ASSESSED AGAINST THE CONTRACTOR AFTER 24 HOURS HAS ELAPSED FROM THE TIME OF BREAK OR DAMAGE. \$2,500 PER DAY FOR DAMAGE TO COPPER WIRED INTERCONNECT CABLE AND \$7,500 PER DAY FOR DAMAGE TO FIBER OPTIC CABLE.
102. ALL SIGNAL CABLE SHALL CONFORM TO I.M.S.A. #20-1 AND SHALL BE A 25 CONDUCTOR CABLE. ALL CABLES SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
103. SIX (6) SINGLE CONDUCTOR UF WIRES SHALL BE PROVIDED FROM ALL EMPTY TENONS TO THE 'J' BOX ON THE MAST ARM POLE. EACH WIRE SHALL BE A DIFFERENT COLOR.
104. ALL EMPTY TRAFFIC SIGNAL OR STREET LIGHTING CONDUITS SHALL HAVE A #8 AWG THW-2 OR XHHW-2 GREEN CONDUCTOR RUN FROM PULL BOX TO PULL BOX.
105. ALL INTERCONNECT / I.T.S. CONDUITS SHALL HAVE A 6-PAIR PE-39 #22 AWG TWISTED WIRE PAIR CABLE, WITH PULL STRING, CABLE IN EACH CONDUIT RUN BETWEEN EACH PULL BOX OR SPLICE VAULT.
106. EACH CONDUCTOR OR LOOP CABLE SHALL HAVE A MINIMUM OF TWO (2) FEET OF COILED SLACK WIRE IN EACH PULL BOX THE CONDUCTOR GOES THROUGH OR TERMINATES WITHIN.
107. OPTICOM CABLE SHALL BE 3 PAIR NO. 20, GLOBAL TRAFFIC TECHNOLOGIES (GTT) MODEL 138. ALL CABLES SHALL BE RUN FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
108. ONE #8 GREEN CONDUCTOR SHALL BE RUN FROM THE CONTROLLER TO ALL POLES AND PULL BOXES AS A BONDING GROUND. ALL PROPOSED CONDUITS SHALL HAVE A #8 AWG GREEN THW-2 OR XHHW-2 CONDUCTOR INSTALLED.
109. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING THE COMPLETE TRAFFIC SIGNAL ELECTRICAL SYSTEM INCLUDING ALL EXISTING POLES, CABINETS, SERVICE PEDESTALS, PULL BOXES AND ELECTRICAL DEVICES IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND THE UNIFORM STANDARD DRAWINGS.
110. ALL EXISTING TRAFFIC SIGNAL RELATED NO. 3-1/2, NO. 5, AND NO. 7 METAL PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED 'TRAFFIC SIGNAL'. ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS.

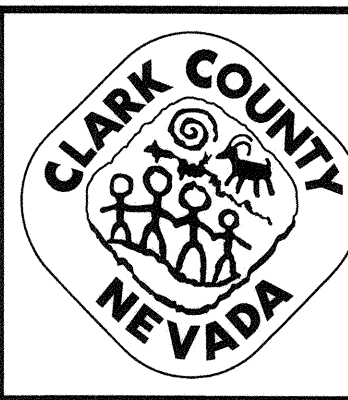
- 111. ALL EXISTING TRAFFIC SIGNAL INTERCONNECT RELATED METAL P30 PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED 'FIBER OPTIC'. ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS.
112. ALL EXISTING STREET LIGHTING RELATED METAL PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED 'STREET LIGHTING'. ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS.
113. ALL NEW PULL BOX ASSEMBLIES (BOX WITH COVER SECURELY ATTACHED) SHALL BE DESIGNED FOR A VERTICAL STATIC LOAD OF 16,000 POUNDS APPLIED WITH A 1.3 SAFETY FACTOR. A VERTICAL TEST LOAD OF 20,800 POUNDS APPLIED TO A 10-INCHX10-INCH STEEL PLATE CENTERED ON THE COVER'S SURFACE SHALL NOT CAUSE FAILURE ON ANY PART OF THE ASSEMBLY.
114. MANUFACTURER'S CERTIFIED TEST RESULTS, SHOWING COMPLIANCE WITH SPECIFIED DESIGN LOADS AND SAFETY FACTORS ALONG WITH A PHYSICAL DESCRIPTION OF THE TESTING METHODS USED TO ACHIEVE THOSE RESULTS, WILL BE REQUIRED FOR EACH TYPE OF PULL BOX BEING FURNISHED. TEST RESULTS SHALL SHOW THE PROJECT NUMBER, CONTROL NUMBER, AND PROJECT LOCATION AND SHALL BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE FIRM MANUFACTURING THE PULL BOX.
115. ALL NEW TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED 'TRAFFIC SIGNAL'. THE COVER SHALL BE A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE.
116. ALL NEW INTERCONNECT RELATED P30 PULL BOX SHALL BE POLYMER CONCRETE AND HAVE A COVER MARKED 'FIBER OPTIC'. THE COVER SHALL BE A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE.
117. ALL NEW INTERCONNECT RELATED 1200 PULL BOX SHALL BE CONCRETE AND HAVE AN ADJUSTABLE TORSION SPRING ASSISTED METAL COVER MARKED 'FIBER OPTIC'. THE PULL BOX ASSEMBLY SHALL HAVE A DESIGN LOAD OF H-20 WHEEL LOADINGS. PULL BOX COVER SHALL BE GROUNDED PER THE PULL BOX COVER BONDING DETAIL.
118. ALL NEW STREET LIGHTING PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED 'STREET LIGHTING'. THE COVER SHALL BE A HEAVY DUTY, SOLID, RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE.
119. FOR NEW CONSTRUCTION, TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE OF MONOLITHIC CONCRETE CONSTRUCTION.
120. WHERE DOUBLE STACKED NO. 7 PULL BOXES ARE CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL USE A 12-INCH DEEP PRECAST REINFORCED CONCRETE BODY WITH A PRECAST REINFORCED CONCRETE EXTENSION AS SHOWN IN THE UNIFORM STANDARD DRAWINGS. CONTRACTOR SHALL USE GROUT TO FILL IN ANY GAPS BETWEEN THE PULL BOX AND THE PULL BOX EXTENSION. SPACERS SUCH AS ROCKS, CINDER BLOCKS AND WOOD PIECES SHALL NOT BE USED BETWEEN THE PULL BOX AND THE PULL BOX EXTENSION.
121. CONDUIT ROUTING AND PULL BOX LOCATION ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION OF PULL BOXES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
122. PULL BOXES SHALL NOT BE INSTALLED WITHIN SIDEWALK RAMP OR WITHIN ANY DRIVEWAY. PULL BOXES SHALL NOT BE INSTALLED WITHIN THE ROADWAY, SHOULDER, NOR BIKE LANE.
123. ALL CONDUIT BENDS FOR TRAFFIC SIGNALS TERMINATING IN PULL BOXES, VAULTS, TRAFFIC SIGNAL POLES AND TRAFFIC CONTROLLER CABINETS SHALL BE PVC COATED RIGID STEEL UNLESS THE CONDUIT RUN IS SHORTER THAN THREE HUNDRED (300) FEET.
124. TRAFFIC SIGNAL AND STREET LIGHTING CONDUIT BENDS SHALL HAVE A 18 -INCH MINIMUM RADIUS.
125. INTERCONNECT CONDUITS BENDS SHALL HAVE A 24-INCH MINIMUM RADIUS.
126. ALL CONDUITS SHALL EXTEND A MINIMUM OF SIX (6) INCHES ABOVE THE GROUND LEVEL OF THE BOTTOM OF A PULL BOX.
127. ALL PULL BOX COVERS SHALL HAVE A MINIMUM SIX (6) INCH CLEARANCE FROM ANY CONDUIT.
128. ALL CONDUIT OPENINGS SHALL BE SEALED WITH DUCT SEAL OR APPROVED EQUIVALENT. ALL ELECTRICAL CONDUIT, FITTINGS, AND COUPLINGS SHALL BE JOINED TOGETHER PER THE CURRENT NATIONAL ELECTRICAL CODE.
129. CONTRACTOR SHALL SUPPLY AND INSTALL THW-2 OR XHHW-2 WIRE IN LIEU OF THW WIRE AT LOCATIONS WHERE THW WIRE IS SPECIFIED IN THE STANDARD DRAWING.

DETECTION

- 200. IF LOOP DETECTORS ARE TO BE INSTALLED FOR THE TRAFFIC SIGNAL SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL FIVE (5) 4-CHANNEL DETECTION LOOP AMPLIFIERS, AND FOUR (4) SINGLE-CHANNEL LOOP AMPLIFIERS CAPABLE OF EXTENSION/DELAY TIMING.
201. ALL LOOP LEAD-IN CABLE SHALL BE 1 PAIR NO. 12 AWG, TINNED COPPER, 19 STRANDS EACH PER IMSA SPECIFICATION 50-2.
202. LOOP WIRE OTHER THAN PRE-FORMED LOOPS FOR INSTALLATION IN SAW CUTS SHALL MEET IMSA SPECIFICATION 51-5. IT SHALL BE SINGLE CONDUCTOR NO. 14 AWG, COPPER WIRE WITH 19 STRANDS. THE INSULATION SHALL BE 15 MILS OF ORANGE PVC COMPLYING WITH UL 62 WITH AN OVERALL JACKET OF CLEAR NYLON IN ACCORDANCE WITH ASTM D4066.
203. INDUCTION LOOP WIRES FROM THE PULL BOX TO THE INDUCTION LOOPS SHALL NOT BE INSTALLED IN AREAS WHERE FUTURE LOOPS MAY BE INSTALLED.
204. ALL NEW OR REPLACEMENT INDUCTION LOOPS SHALL BE INSTALLED (AS SHOWN ON THE PLANS) USING CABLE-IN-DUCT WIRING OR PRE-FORMED LOOPS AND SHALL HAVE INDEPENDENT LEAD-IN CABLE TO THE CONTROLLER CABINET FOR EACH LEFT TURN, STRAIGHT THROUGH AND RIGHT TURN LANES. ADVANCED LOOPS SHALL HAVE ONE LEAD-IN CABLE PER APPROACH, AND NOT PER LANE. EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
205. THE INDUCTION LOOP WIRES SHALL BE SOLDERED AND SEALED TO THE LOOP LEAD-IN WIRES.
206. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VEHICLE VIDEO DETECTION SYSTEM WHICH SHALL BE ECONOLITE AUTOSCOPE RACK VISION, ITERIS EDGE 2 OR PEEK VIDEOTRAX IQ. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND INSTALL ALL VIDEO EQUIPMENT ON THE TOP SHELF IN CONTROLLER CABINET. CONTRACTOR SHALL MOUNT CAMERAS ON THE TRAFFIC SIGNAL MAST ARM OR LUMINAIRE ARM USING A PELCO ATTACHMENT CONSISTING OF AN ASTRO BRACKET WITH A SIX (6) FOOT RISER. THE LOCATION OF THE CAMERA SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON PLANS. CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
207. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VIDEO DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN THE "MINIMUM LIMITS OF DETECTION ZONE". ONE (1) COAXIAL CABLE AND THREE (3) - #10 THW-2 OR XHHW-2 (BLUE, WHITE AND GREEN) SHALL RUN FROM THE CONTROLLER CABINET TO EACH CAMERA. COAXIAL CABLE SHALL BE BELDEN 8281 WITH A BNC CONNECTOR AT EACH END. THE CAMERA COAXIAL CABLE SHALL RUN FROM THE VPU TO THE TRAFFIC SIGNAL POLE HAND HOLE, WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET COAXIAL CABLE SLACK ON THE CAMERA SIDE OF THE COAXIAL CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS.
208. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A WAVETRONIX ADVANCE DETECTOR SYSTEM COMPLETE, IN-PLACE AND OPERATIONAL. THE CONTRACTOR SHALL PROVIDE A WAVETRONIX SMARTSENSOR ADVANCE MODEL 200 DETECTOR AT EACH LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE, AS PART OF THE EQUIPMENT, A DIN RAIL WITH WAVETRONIX "CLICK" MODULES (POWER CONVERTER, SURGE PROTECTION AND CONTACT CLOSURES). THE CONTRACTOR SHALL PROVIDE ALL CABLING AND WIRING PER MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE, SETUP AND INSTALL ALL VENDOR OPERATIONAL SOFTWARE REQUIRED FOR THE DIFFERENT SYSTEMS IDENTIFIED ON THESE PLANS.
209. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A RADAR DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN ONE HUNDRED (100) FEET OF SENSOR TO THREE HUNDRED AND SIXTY (360) FEET IN ADVANCE OF STOP LINE FOR THE THROUGH LANES. ONE (1) BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO EACH SENSOR. THE BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE RADAR DETECTOR WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET CABLE SLACK ON THE SENSOR SIDE OF THE BELDEN 9331 CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS.
210. THE FRONT OF THE ADVANCED INDUCTION LOOPS SHALL BE PLACED IN ADVANCE OF THE FRONT OF THE PRESENCE LOOPS (AT THE STOP BAR) AT LOCATIONS INDICATED IN THE PLANS.
211. 6 FEET DIAMETER CIRCULAR DETECTION LOOPS MAY BE USED IN LIEU OF 6 FEET BY 6 FEET SQUARE DETECTION LOOP. SPACING BETWEEN EACH LOOP AND THE NUMBER OF LOOPS SHALL BE AS SPECIFIED IN THE PLANS.

User: fernando.racz Path: K:\ov_publications\092061_cc\021-1b_roadway-signal\CAD\plansheets\092061021-TS - GN.dwg / This document, together with the concept 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.

Table with 3 columns: NO., REVISIONS, DATE. Row 1: ISSUED FOR CONSTRUCTION, 10/23/2019. Row 2: REVISED PER REVISION NO. 2, 11/15/2019. Row 3: APPROVED.



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE TRAFFIC SIGNAL GENERAL NOTES CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

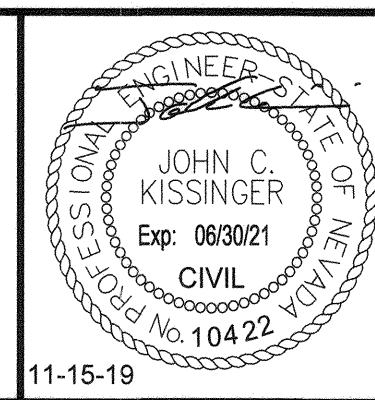


Table with 2 columns: DESIGNED BY: ZMH, DRAWN BY: MCD, CHECKED BY: JCK, DATE: 11-15-2019. Kimley Horn logo and address: 6871 Las Vegas Boulevard South, Suite 320, Las Vegas, Nevada 89119. Tel. No. (702) 862-3600.

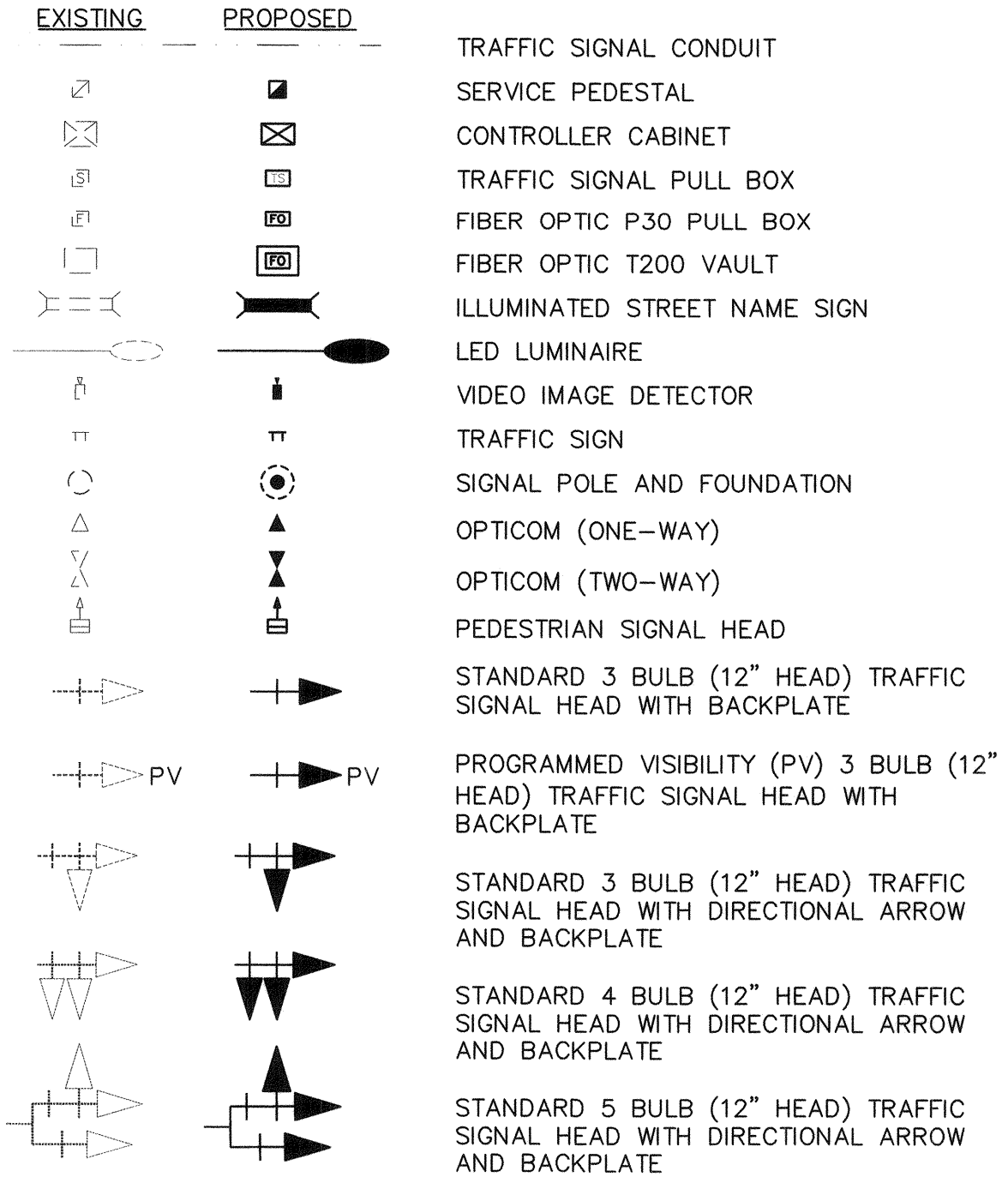
Table with 2 columns: SCALE (HORIZ: N/A, VERT: N/A, FIELD BOOK: NONE), SHEET No (TS-01, SHEET 186 OF 345, L-2210).

ISSUED FOR CONSTRUCTION

CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND CCAUSD NO. 803.
- 2 FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON CONCRETE FOUNDATION PER CCAUSD NO. 730.
- 3 FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS.
- 4 FURNISH AND INSTALL GPS OPTICOM RECEIVER ON TRAFFIC SIGNAL POLE. SEE SPECIAL PROVISIONS.
- 5 FURNISH AND INSTALL BATTERY BACKUP SYSTEM MOUNT ON TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS. CABINET MOUNTING ORIENTATION AS SHOWN ON PLANS.
- 6 INSTALL 6'x30' PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD No. 830 OR 831 FOR LOOP AND SAWCUT DETAILS.
- 7 INSTALL (6) 6'x6' LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
- 8 INSTALL 6'x6' ADVANCED LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
- 9 FURNISH AND INSTALL No. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 706.
- 10 FURNISH AND INSTALL TYPE 100 TRAFFIC SIGNAL PULL BOX PER DETAIL ON SHEET TS-18.
- 11 FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
- 12 CONNECT LOOP WIRE TO LOOP CABLE PER CCAUSD No. 827.
- 13 FURNISH AND INSTALL 3-3" AND 1-2" CONDUIT WITH TRACER WIRE FOR FUTURE USE.
- 14 FURNISH AND INSTALL 1-3" CONDUIT WITH TRACER WIRE FOR FUTURE USE.
- 15 FURNISH AND INSTALL OPTICOM DETECTOR (INCLUDING ALL REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- 16 FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
- 17 FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM (TYPE AS NOTED ON PLANS) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE FOR SIGN DESIGNATION AND SIZE.
- 18 FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL POLE (TYPE AS NOTED) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
- 19 FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 6 FT EXTENSION ON MAST ARM. SEE SPECIFICATIONS.
- 20 FURNISH AND INSTALL RED LIGHT RUNNING INDICATION PER CCAUSD No. 811.S1.
- 21 CONNECT NEW CONDUIT INTO EXISTING PULL BOX.
- 22 INTERCEPT EXISTING FAST CONDUIT AND REDIRECT TO NEW CONTROLLER CABINET.
- 23 SEE COMMUNICATION PLANS FOR CDCA CONNECTION TO TRAFFIC SIGNAL.
- 24 FURNISH AND INSTALL VANDALISM PLATE ON POLE PER DETAIL (SHEET TS-19).
- 25 FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON EXISTING CONCRETE FOUNDATION PER CCAUSD NO. 730.
- 26 FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
- 27 FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.
- 28 INSTALL CONDUIT BY HORIZONTAL DIRECTIONAL DRILLING UNDER EXISTING SHALLOW MOUNT BOLLARDS. EXISTING BOLLARDS AND BOLLARD APPURTENANCES SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED.
- 29 INSTALL 2" CONDUIT STUB OUT, 12" IN LENGTH, FOR FUTURE LOOP WIRE. CAP CONDUIT.
- 30 INTERCEPT EXISTING TRAFFIC SIGNAL CONDUIT AND REDIRECT INTO NEW PULL BOX.
- 31 FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN ON ALTERNATIVE MOUNTING PER CCAUSD NO. 815 AND 818. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
- 32 INTERFACE WITH RESORTS WORLD SHEET TS-11 FOR CONTINUATION OF TS IMPROVEMENTS AT THIS INTERSECTION.
- 33 REUSE EXISTING POLE AND FOUNDATION. MOUNT NEW EQUIPMENT ONTO EXISTING POLE. REPAINT POLE. SEE SPECIAL PROVISIONS.
- 34 PRIME AND PAINT EXISTING POLE AND EQUIPMENT PER SPECIAL PROVISIONS.

TRAFFIC SIGNAL EQUIPMENT LEGEND



DEMOLITION NOTES

- D1 REMOVE AND SALVAGE EXISTING VIDEO DETECTION SYSTEM.
- D2 REMOVE EXISTING PULL BOX.
- D3 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT. SEE POLE SCHEDULE.
- D4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CABINET.
- D5 REMOVE EXISTING FOUNDATION. SEE SPECIAL PROVISIONS.
- D6 ABANDON CONDUIT IN PLACE. REMOVE CONDUCTORS/CABLING.
- D7 PROTECT IN PLACE.
- D8 REMOVE AND SALVAGE EXISTING METER PEDESTAL.
- D9 REMOVE EXISTING SIGNAL EQUIPMENT ON POLE.

RELOCATION NOTES

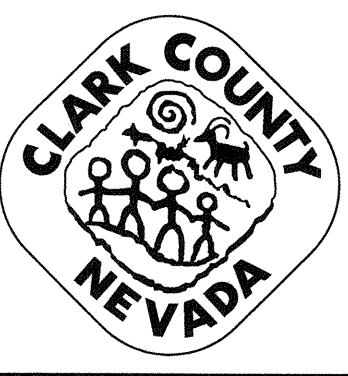
- 40 RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
- 41 RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- 42 RELOCATE METRO DOME CAMERA FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- 43 RELOCATE EXISTING RED LIGHT RUNNING INDICATOR FROM EXISTING POLE TO NEW POLE ON THIS CORNER PER CCAUSD NO. 811.S1.
- 44 REMOVE AND SALVAGE EXISTING CAMERA EXTENSION POLE. FURNISH AND INSTALL CAMERA EXTENSION POLE (11'-8" HIGH RISE) PER NDOT DETAIL T-33.11.2. EXTENSION POLE SHALL BE PRIMED AND PAINTED. COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.

F.A.S.T. CAMERA RELOCATION NOTES:

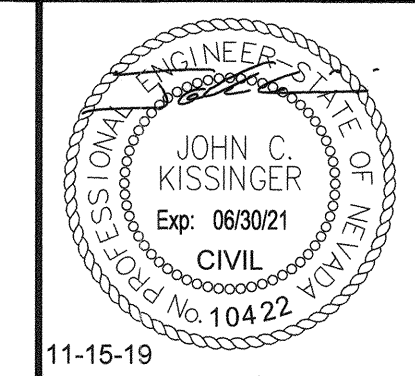
1. TEST THE FUNCTIONALITY OF THE SURVEILLANCE CAMERA UPON INSTALLATION THROUGH DIRECT CONNECTION OF THE FIELD WIRING AT THE CONTROLLER CABINET. NOTIFY THE ENGINEER AND DOCUMENT ALL TESTS. THE ENGINEER RESERVES THE RIGHT TO WITNESS ALL TESTS.
2. UPON COMPLETION OF THE FUNCTIONALITY TEST, INSTALL VIDEO AND DATA CONNECTIONS TO THE LOCAL COMMUNICATIONS INFRASTRUCTURE IN ACCORDANCE WITH F.A.S.T. REQUIREMENTS AT (702) 432-5300.
3. SURVEILLANCE CAMERA SHALL BE RELOCATED TO F.A.S.T. SATISFACTION.
4. A FAST REPRESENTATIVE SHALL BE ON SITE WHEN THIS WORK IS COMPLETED. THE CONTRACTOR SHALL CONTACT FAST AT (702) 432-5309 A MINIMUM OF 48 HOURS PRIOR TO THE DATE WHEN THE EXISTING POLE IS SCHEDULED TO BE REMOVED TO COORDINATE THE TIME WHEN A FAST REPRESENTATIVE CAN BE PRESENT.

User: fernando.cruz
 Path: K:\Veg_Publications\092061_cc\02-1b_roadway-signal\CAD\plansheets\092061021-TS - GN.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
 TRAFFIC SIGNAL NOTES AND LEGEND
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

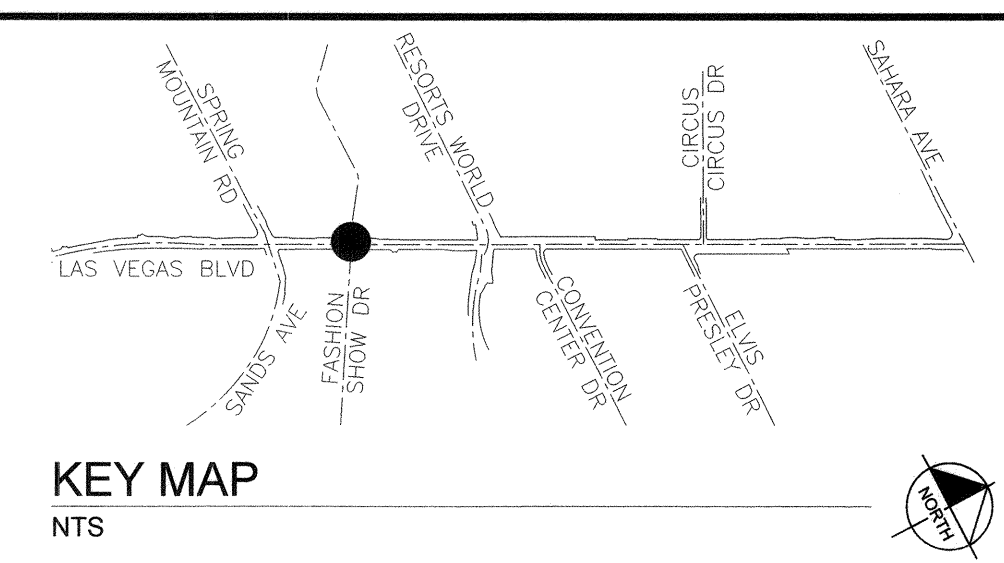
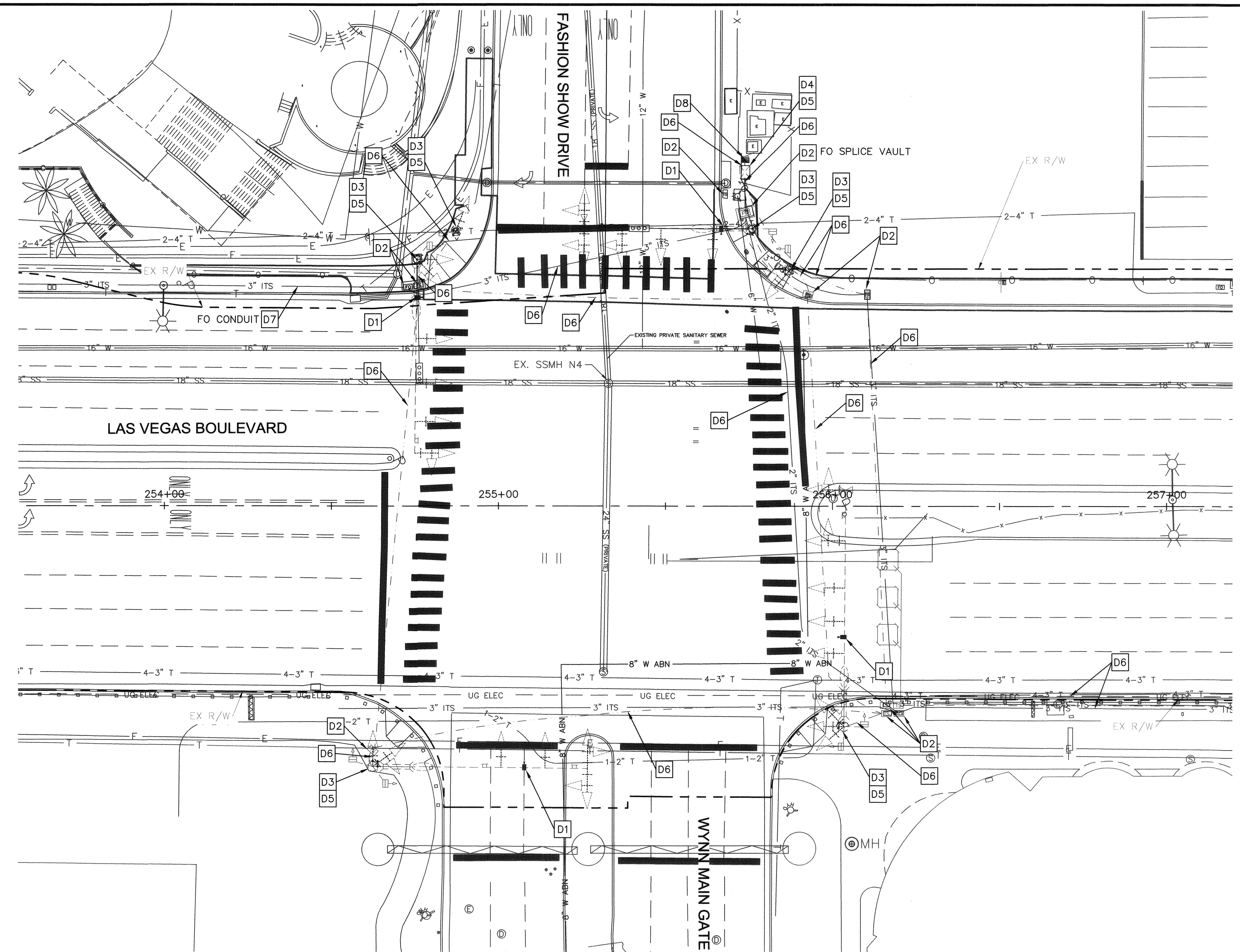


DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019

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

SCALE	SHEET No
HORIZ: N/A	TS-03
VERT: N/A	SHEET 188 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION



DEMOLITION NOTES

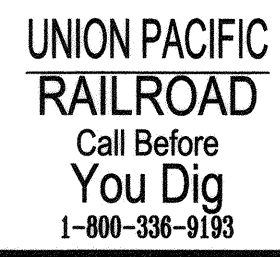
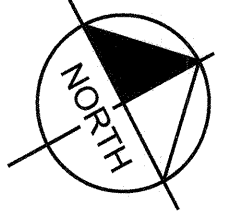
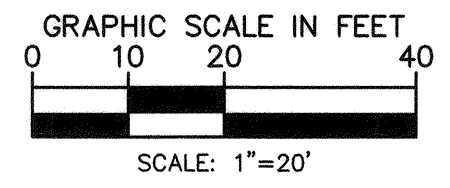
- D1 REMOVE AND SALVAGE EXISTING VIDEO DETECTION SYSTEM.
- D2 REMOVE EXISTING PULL BOX.
- D3 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT. SEE POLE SCHEDULE.
- D4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CABINET.
- D5 REMOVE EXISTING FOUNDATION. SEE SPECIAL PROVISIONS.
- D6 ABANDON CONDUIT IN PLACE. REMOVE CONDUCTORS/CABLING.
- D7 PROTECT IN PLACE.
- D8 REMOVE AND SALVAGE EXISTING METER PEDESTAL.

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

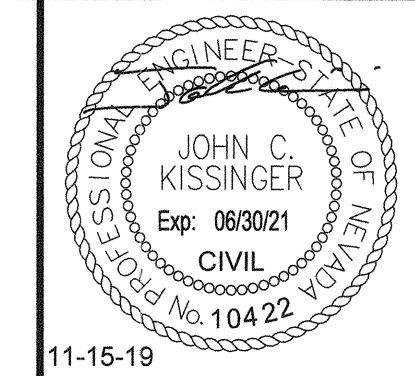
CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 28NW6
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
 NAVD 88 ELEVATION = 2134.73 FEET (650.667 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988
 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988



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
 FASHION SHOW DRIVE TRAFFIC DEMOLITION PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

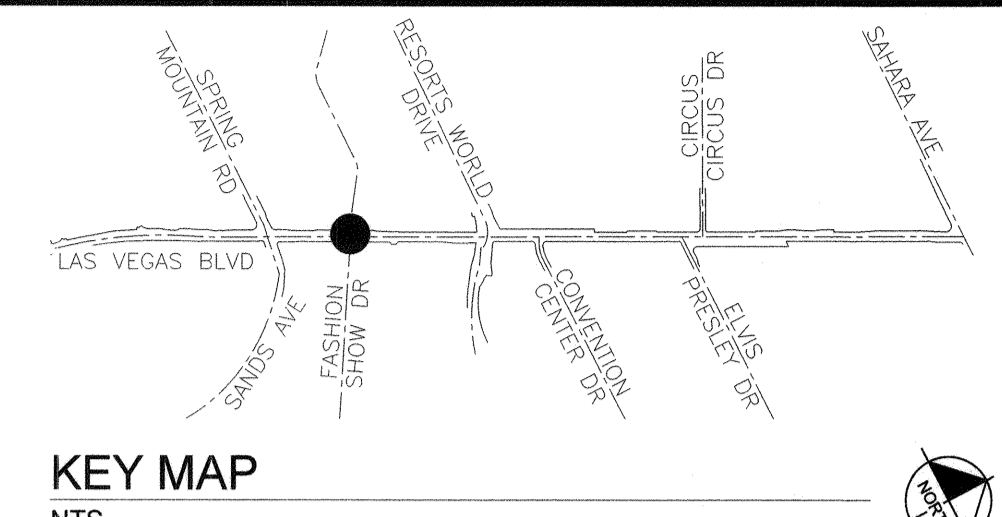
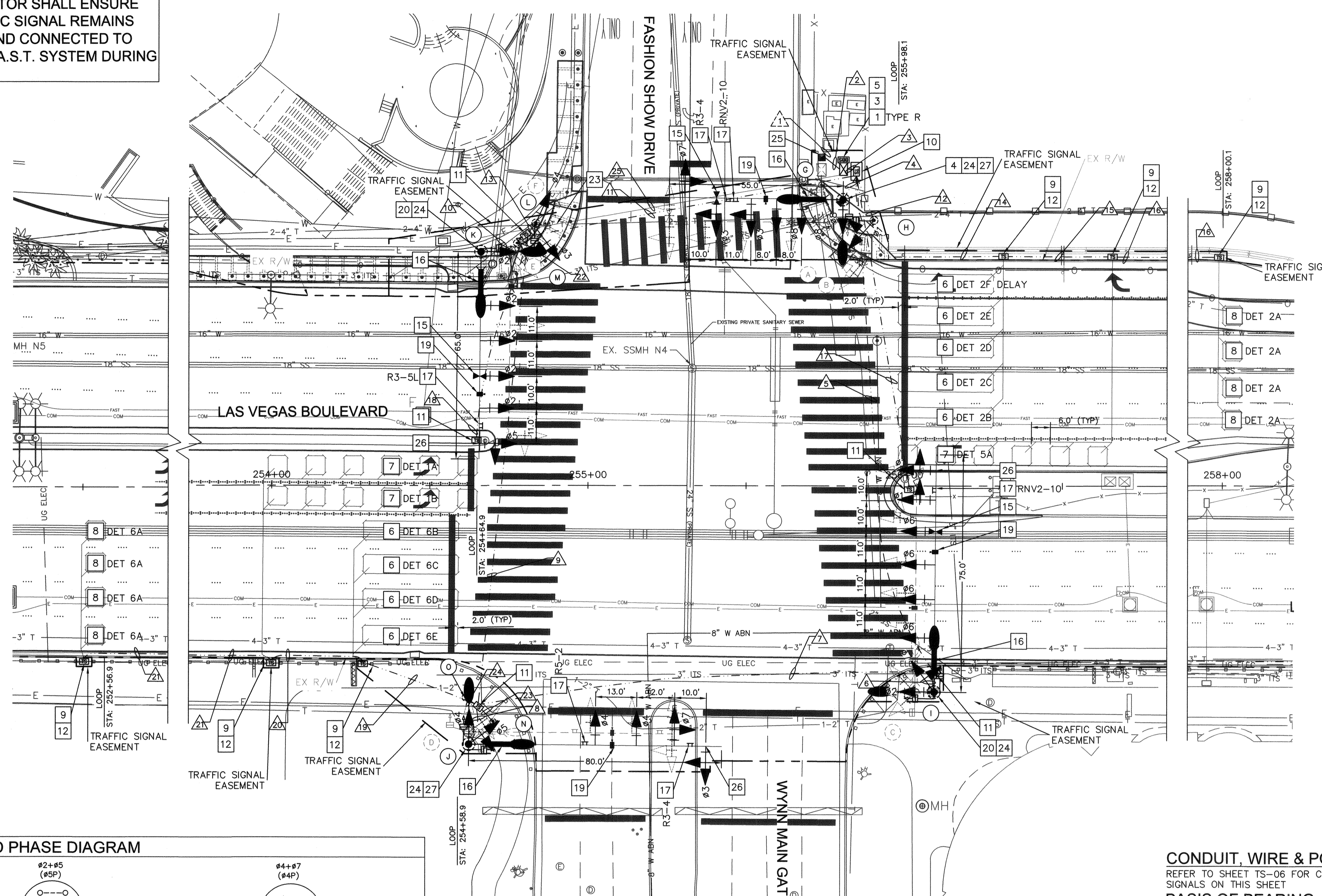
SCALE
 HORIZ: 1" = 20'
 VERT: N/A
 FIELD BOOK: NONE

SHEET No
TS-04
 SHEET 189 OF 345
 L-2210

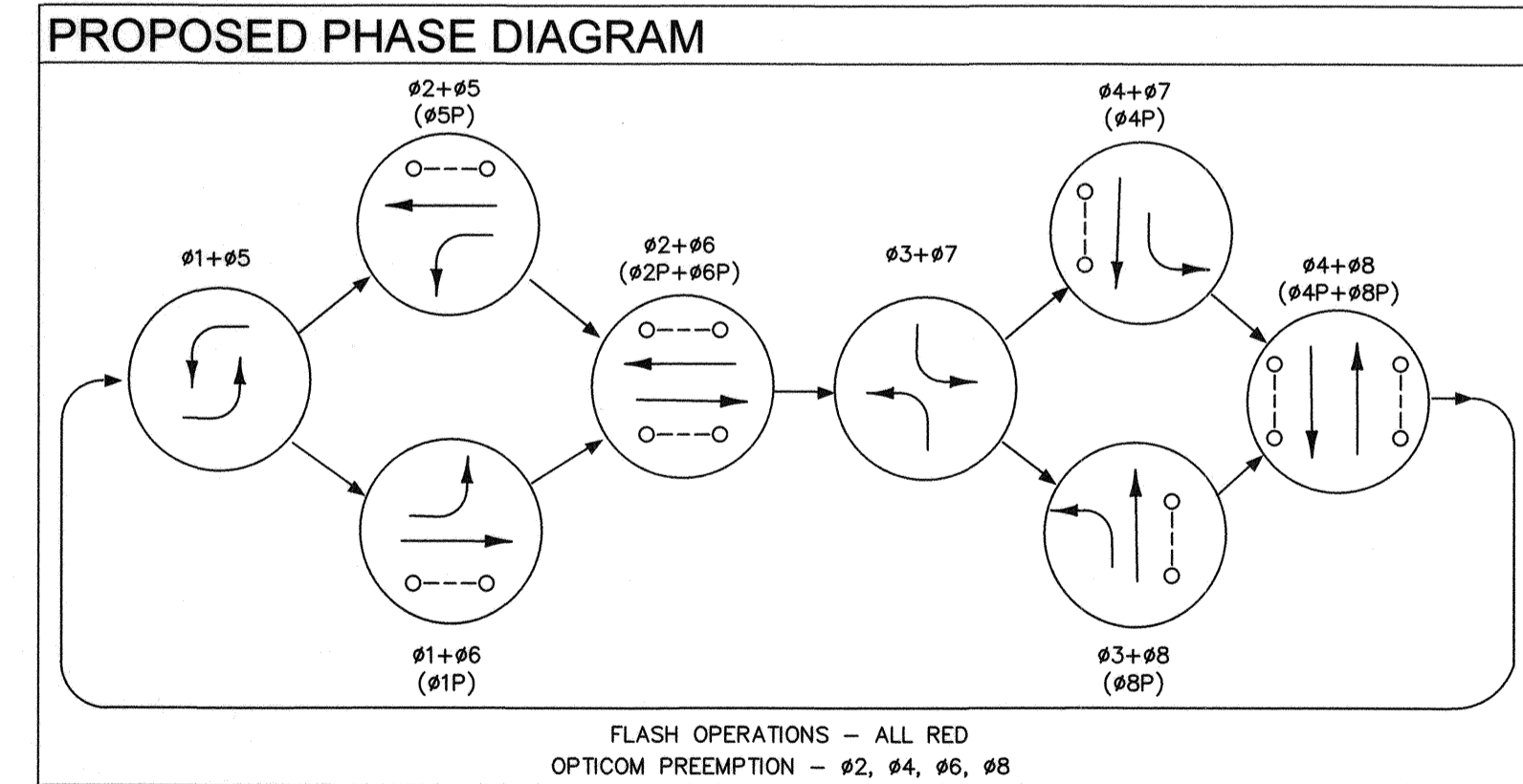
ISSUED FOR CONSTRUCTION

User: fernando.maz
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NOTE: CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS IN OPERATION AND CONNECTED TO THE EXISTING F.A.S.T. SYSTEM DURING CONSTRUCTION.



- CONSTRUCTION NOTES**
- FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND CCAUSD NO. 803.
 - FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS.
 - FURNISH AND INSTALL GPS OPTICOM RECEIVER ON TRAFFIC SIGNAL POLE. SEE SPECIAL PROVISIONS.
 - FURNISH AND INSTALL BATTERY BACKUP SYSTEM MOUNT ON TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS. CABINET MOUNTING ORIENTATION AS SHOWN ON PLANS.
 - INSTALL 6'x30' PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD No. 830 OR 831 FOR LOOP AND SAWCUT DETAILS.
 - INSTALL (6) 6'x6' LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
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 - FURNISH AND INSTALL TYPE 100 TRAFFIC SIGNAL PULL BOX PER DETAIL ON SHEET TS-18.
 - FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
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 - FURNISH AND INSTALL OPTICOM DETECTOR (INCLUDING ALL REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
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 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM (TYPE AS NOTED ON PLANS) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 6 FT EXTENSION ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL RED LIGHT RUNNING INDICATION PER CCAUSD NO. 811.S1.
 - SEE COMMUNICATION PLANS FOR CDCA CONNECTION TO TRAFFIC SIGNAL.
 - FURNISH AND INSTALL VANDALISM PLATE ON POLE PER DETAIL ON SHEET TS-19.
 - FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON EXISTING CONCRETE FOUNDATION PER CCAUSD NO. 730.
 - FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.



SIGN SCHEDULE

R3-5L 30"x36"	R3-4 24"x24"	R5-2 24"x24"	RNV2-10 36"x30"
ONLY			ONLY ONLY

CONDUIT, WIRE & POLE SCHEDULE

REFER TO SHEET TS-06 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET

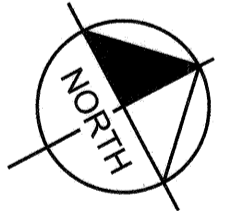
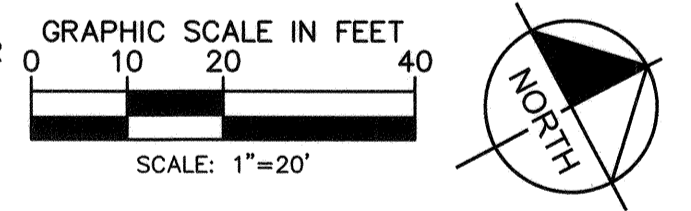
BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
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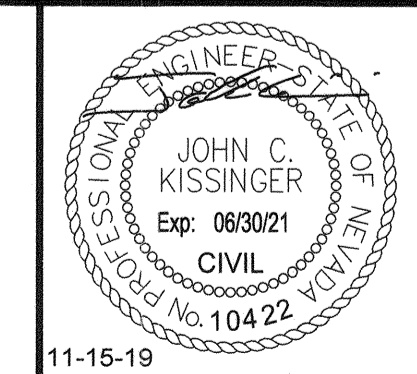
CLARK COUNTY VERTICAL CONTROL v.2003
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A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
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NO.	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
FASHION SHOW DRIVE TRAFFIC SIGNAL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ZMH
DRAWN BY: MCD
CHECKED BY: JCK
DATE: 11-15-2019

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

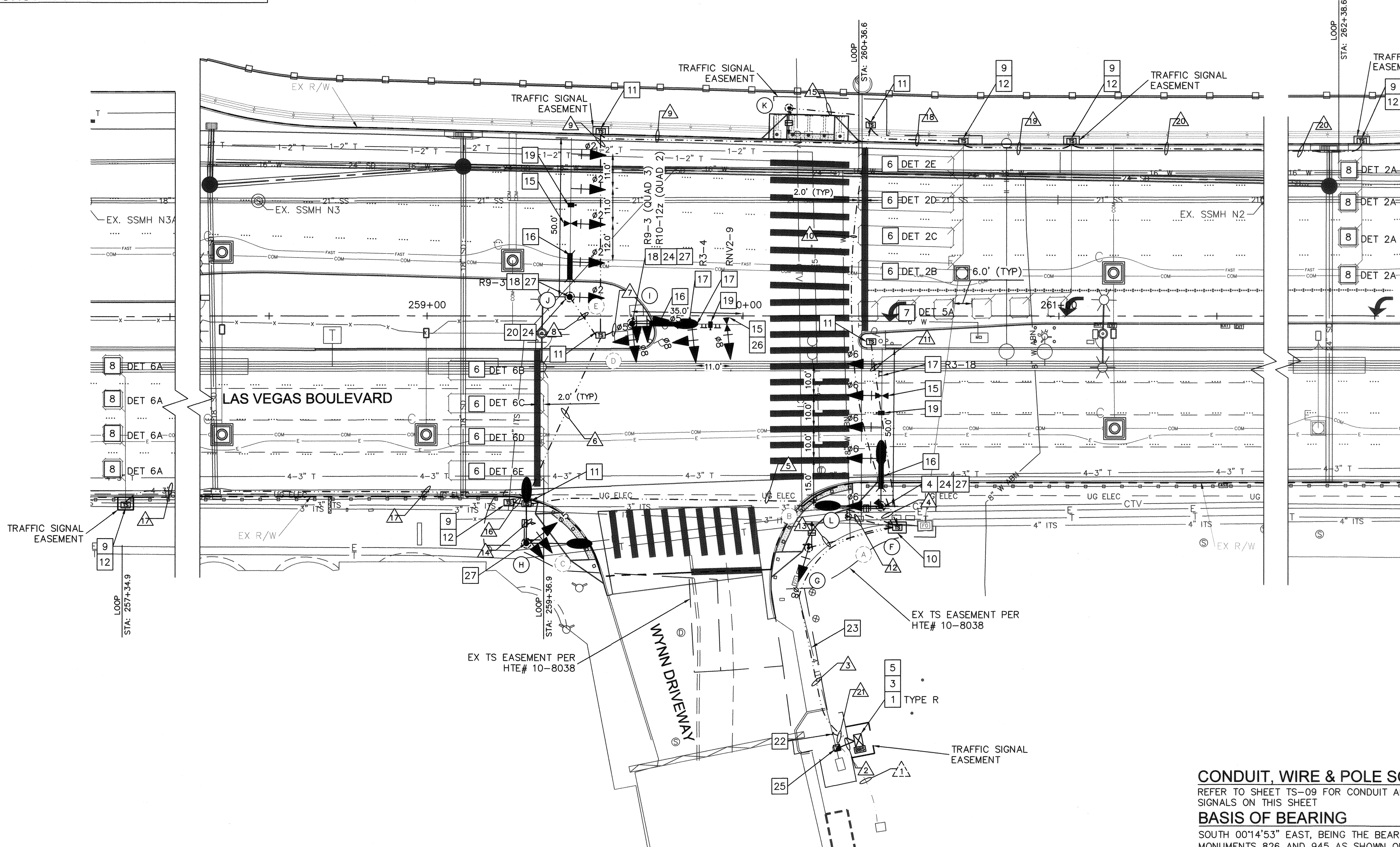
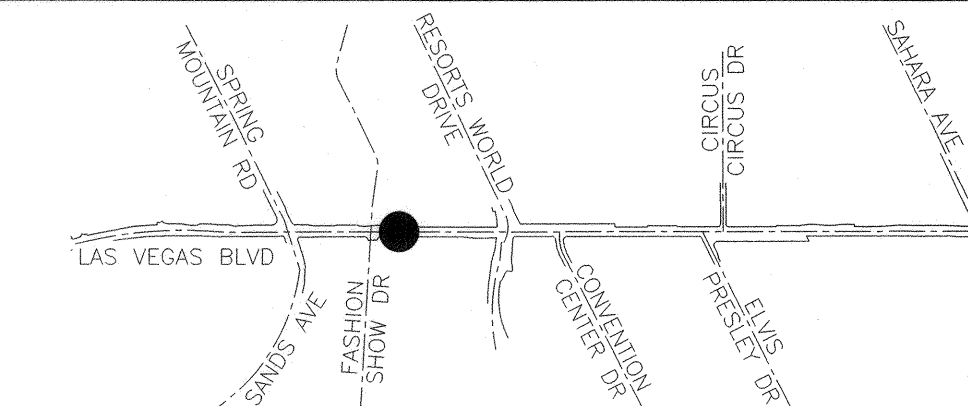
SCALE	SHEET No
HORIZ: 1" = 20'	TS-05
VERT: N/A	SHEET 190 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

User: I:\mundo\roaz\092016\092016\roadway-signal\CAD\plansheets\092016\021-TS - Fashion Show.dwg / Path: K:\New_publications\092016\092016\roadway-signal\CAD\plansheets\092016\021-TS - Fashion Show.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 reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID No. 605203-19

NOTE: CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS IN OPERATION AND CONNECTED TO THE EXISTING F.A.S.T. SYSTEM DURING CONSTRUCTION.



- ### CONSTRUCTION NOTES
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 - FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM (TYPE AS NOTED ON PLANS) PER CCAUSD NO. 818.2. SEE SIGN SCHEDULE FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL POLE (TYPE AS NOTED) PER CCAUSD NO. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 6 FT EXTENSION ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL RED LIGHT RUNNING INDICATION PER CCAUSD NO. 811.S1.
 - INTERCEPT EXISTING FAST CONDUIT AND REDIRECT TO NEW CONTROLLER CABINET.
 - SEE COMMUNICATION PLANS FOR CDCA CONNECTION TO TRAFFIC SIGNAL.
 - FURNISH AND INSTALL VANDALISM PLATE ON POLE PER DETAIL ON SHEET TS-19.
 - FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON EXISTING CONCRETE FOUNDATION PER CCAUSD NO. 730.
 - FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.

CONDUIT, WIRE & POLE SCHEDULE

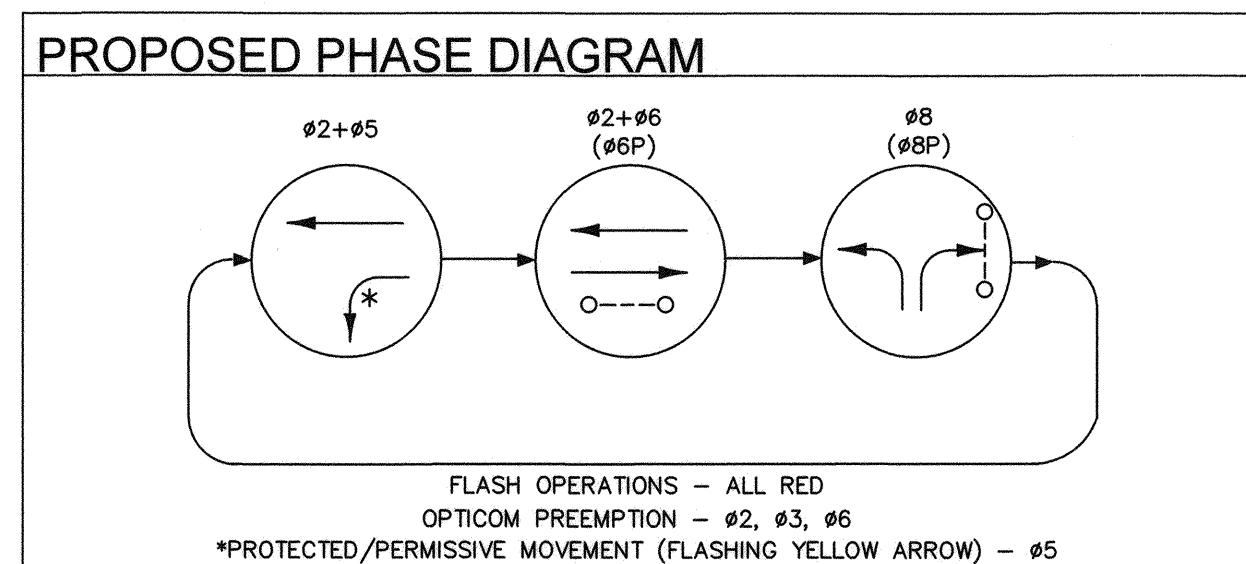
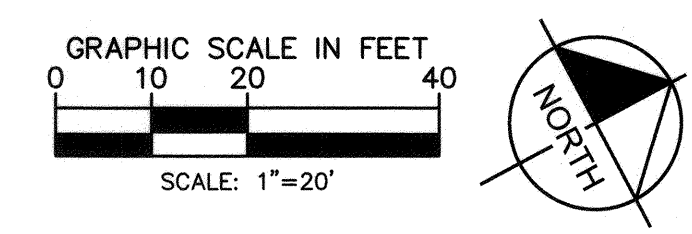
REFER TO SHEET TS-09 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

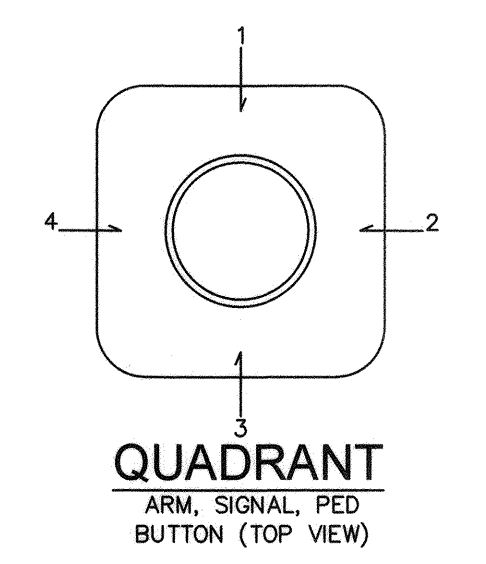
BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 28NWW6
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
 NAVD 88 ELEVATION = 2134.73 FEET (650.657 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988
 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988



SIGN SCHEDULE

R10-12z 30"x36"	R3-4 24"x24"	R3-18 24"x24"	RNV2-9 36"x30"	R9-3 18"x18"
YIELD ON FLASHING YELLOW ARROW	NO LEFT TURN	NO RIGHT TURN	ONLY ONLY	NO PEDESTRIAN

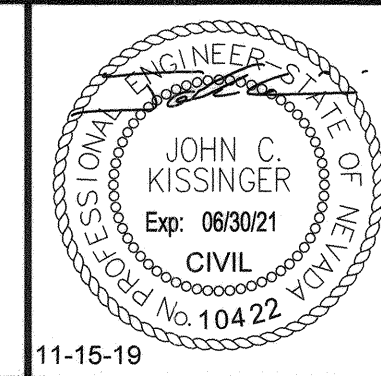


NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 WYNN DRIVEWAY TRAFFIC SIGNAL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



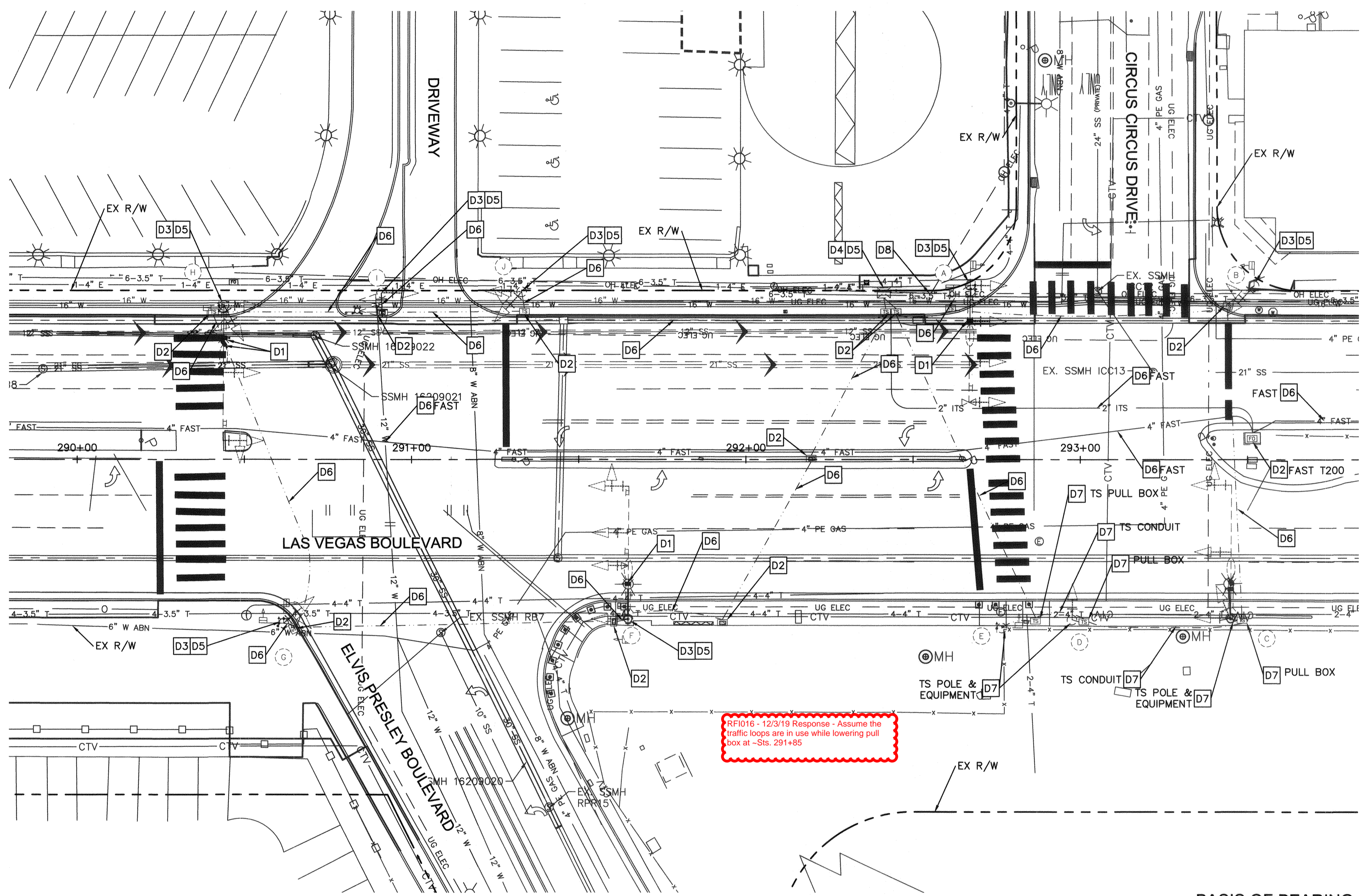
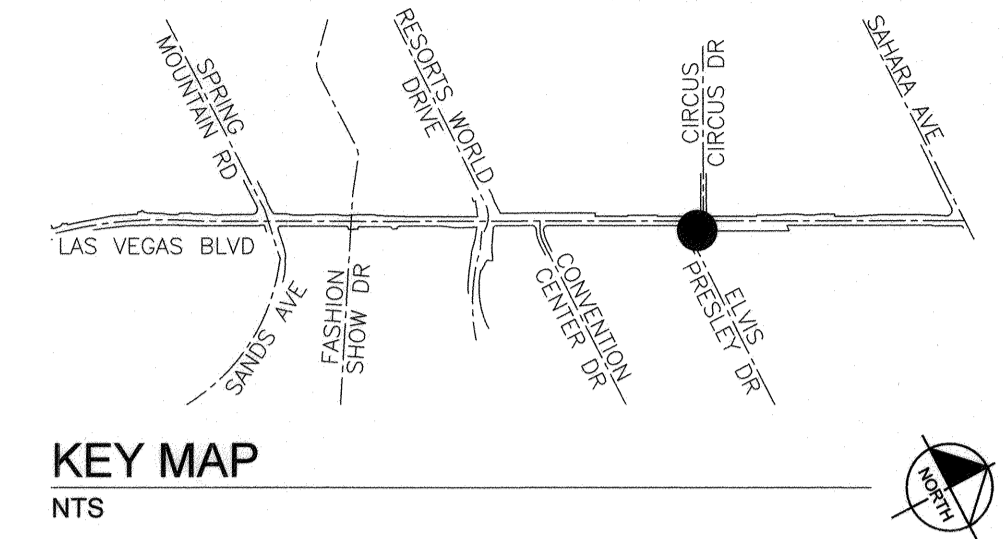
DESIGNED BY: ZMH	SCALE: HORIZ: 1"=20'	SHEET NO: TS-08
DRAWN BY: MCD	VERT: N/A	SHEET 193 OF 345
CHECKED BY: JCK	FIELD BOOK: NONE	L-2210
DATE: 11-15-2019		



ISSUED FOR CONSTRUCTION

User: fernando.roz
 Path: K:\ev_publications\09206\021-TS - Wynn_Driveway.dwg /
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BID NO.: 605203-19



DEMOLITION NOTES

- D1 REMOVE AND SALVAGE EXISTING VIDEO DETECTION SYSTEM.
- D2 REMOVE EXISTING PULL BOX.
- D3 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT. SEE POLE SCHEDULE.
- D4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CABINET.
- D5 REMOVE EXISTING FOUNDATION. SEE SPECIAL PROVISIONS.
- D6 ABANDON CONDUIT IN PLACE. REMOVE CONDUCTORS/CABLING.
- D7 PROTECT IN PLACE.
- D8 REMOVE AND SALVAGE EXISTING METER PEDESTAL.

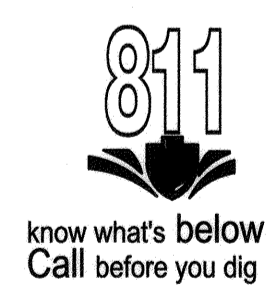
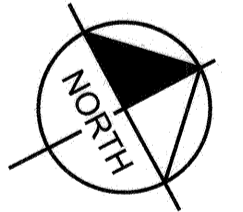
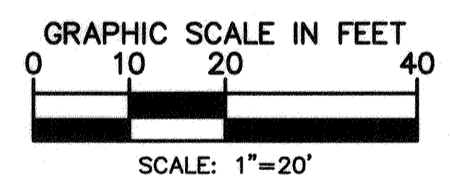
RF1016 - 12/3/19 Response - Assume the traffic loops are in use while lowering pull box at -Sts. 291+85

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 28NW6
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
 NAVD 88 ELEVATION = 2134.73 FEET (650.667 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988
 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988



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

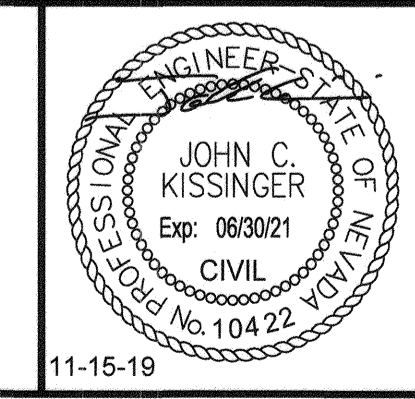


UnderGround
 Call Before You Dig
 1-702-432-5300
 1-800-336-9193

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
 CIRCUS CIRCUS DRIVE TRAFFIC SIGNAL DEMOLITION PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



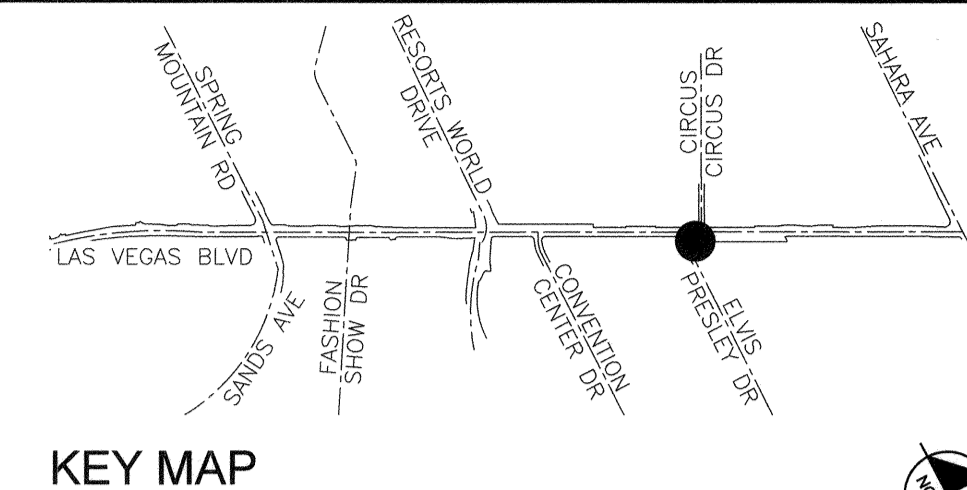
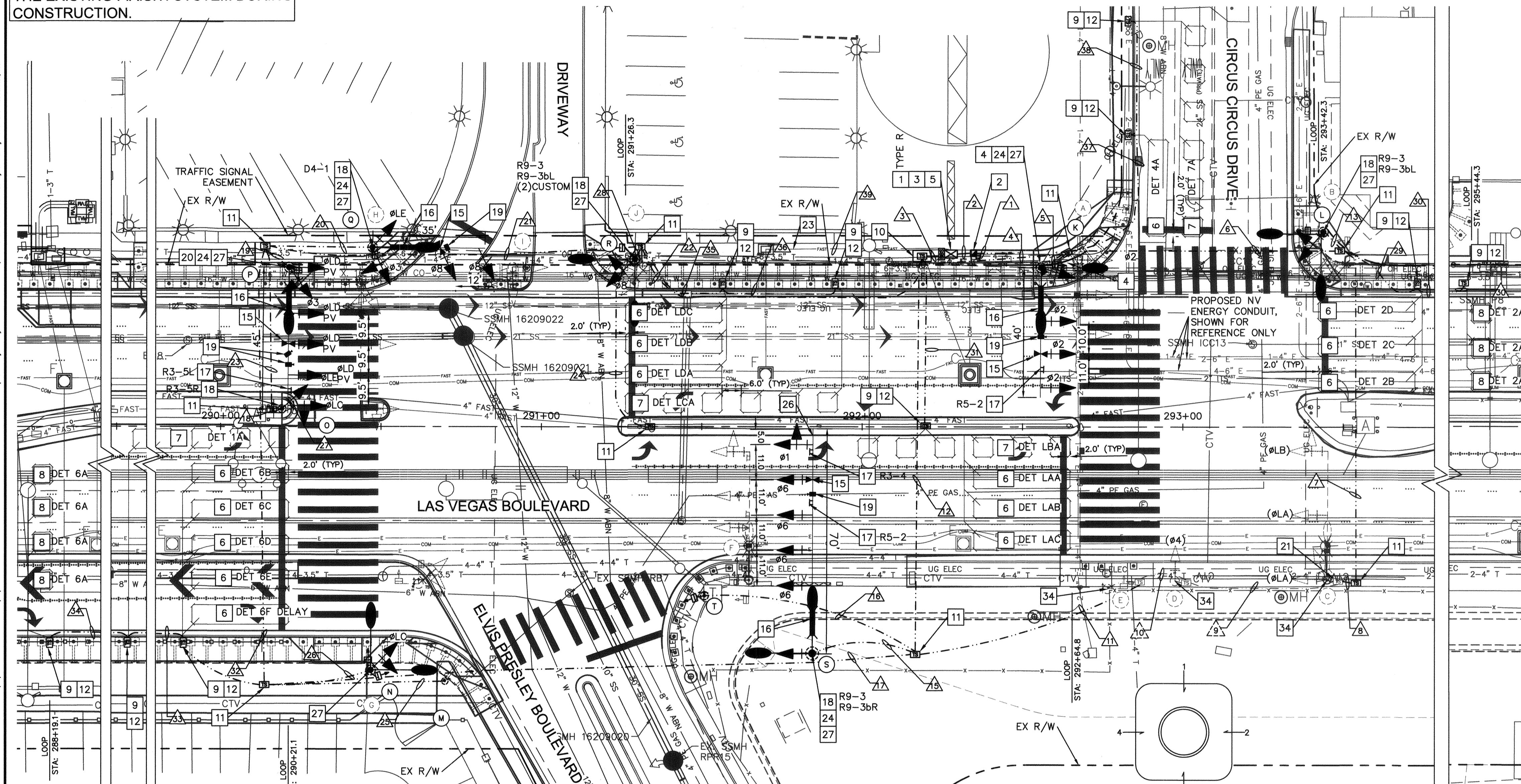
DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019
Kimley»Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3800

SCALE	SHEET No
HORIZ: 1" = 20'	TS-10
VERT: N/A	SHEET 195 OF 345
FIELD BOOK: NONE	L-2210

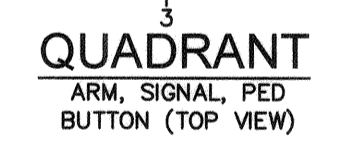
ISSUED FOR CONSTRUCTION

User: fernando.mez
 Path: K:_rev_publications\092061021-cc\021-nb_roadway-signal\CAD\plan\sheet\092061021-TS - Circus_Circus.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 adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NOTE: CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS IN OPERATION AND CONNECTED TO THE EXISTING F.A.S.T. SYSTEM DURING CONSTRUCTION.



- ### CONSTRUCTION NOTES
- FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND CCAUSD NO. 803.
 - FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON CONCRETE FOUNDATION PER CCAUSD NO. 730.
 - FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS.
 - FURNISH AND INSTALL GPS OPTICOM RECEIVER ON TRAFFIC SIGNAL POLE. SEE SPECIAL PROVISIONS.
 - FURNISH AND INSTALL BATTERY BACKUP SYSTEM MOUNT ON TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS. CABINET MOUNTING ORIENTATION AS SHOWN ON PLANS.
 - INSTALL 6'x30' PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD No. 830 OR 831 FOR LOOP AND SAWCUT DETAILS.
 - INSTALL (6) 6'x6' LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
 - INSTALL 6'x6' ADVANCED LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
 - FURNISH AND INSTALL No. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 706.
 - FURNISH AND INSTALL TYPE 100 TRAFFIC SIGNAL PULL BOX PER DETAIL ON SHEET TS-18.
 - FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
 - CONNECT LOOP WIRE TO LOOP CABLE PER CCAUSD No. 827.
 - FURNISH AND INSTALL OPTICOM DETECTOR (INCLUDING ALL REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
 - FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM (TYPE AS NOTED ON PLANS) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL POLE (TYPE AS NOTED) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 6 FT EXTENSION ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL RED LIGHT RUNNING INDICATION PER CCAUSD No. 811.S1.
 - CONNECT NEW CONDUIT INTO EXISTING PULL BOX.
 - SEE COMMUNICATION PLANS FOR CDCA CONNECTION TO TRAFFIC SIGNAL.
 - FURNISH AND INSTALL VANDALISM PLATE ON POLE PER DETAIL (SHEET TS-19).
 - FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.
 - PRIME AND PAINT EXISTING POLE AND EQUIPMENT PER SPECIAL PROVISIONS.



CONDUIT, WIRE & POLE SCHEDULE

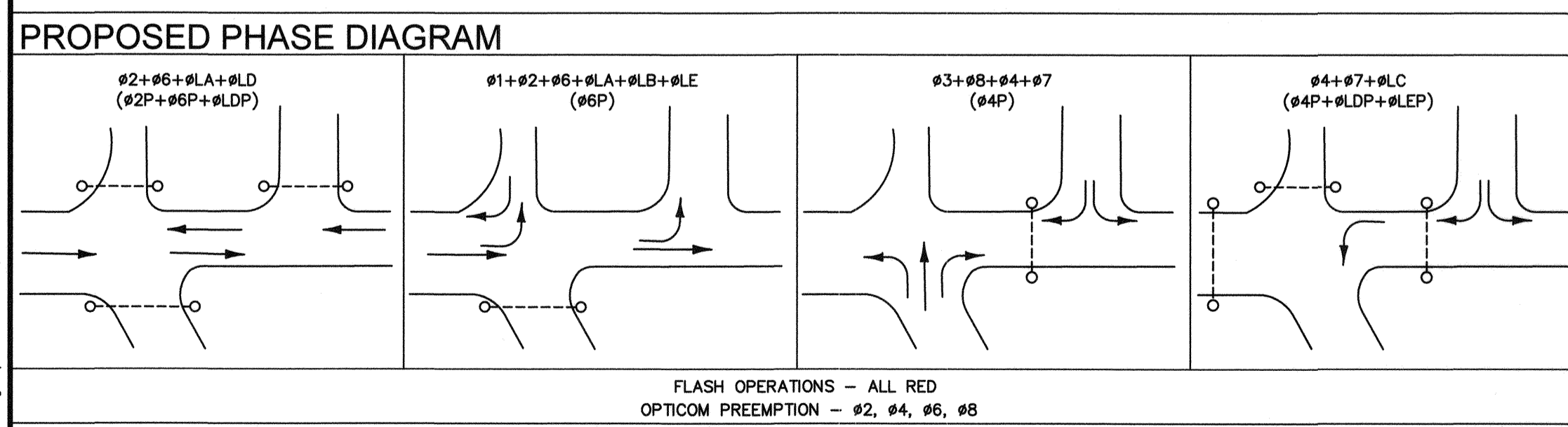
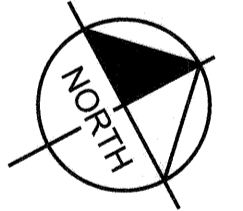
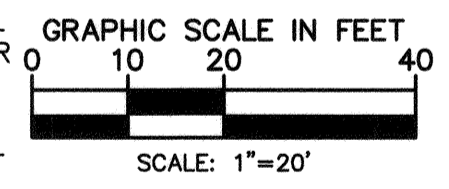
REFER TO SHEET TS-12 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 28NW6
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
 NAVD 88 ELEVATION = 2134.73 FEET (650.667 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988
 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988

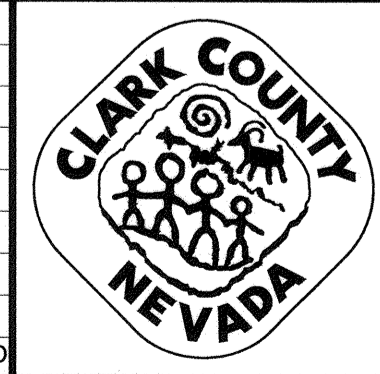


SIGN SCHEDULE

R3-4 24"x24"	R3-5L 30"x36"	R9-3 18"x18"	R5-2 24"x24"	R9-3bL R9-3bR 18"x12"	R3-5R 30"x36"	CUSTOM 18"x18"

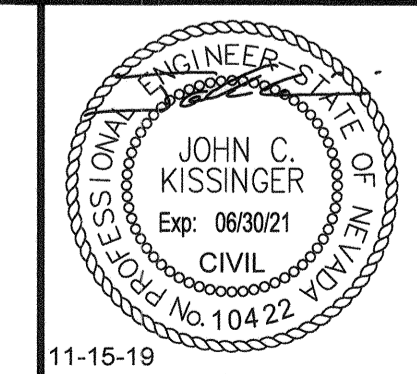
RESORT DISTRICT: NO OBSTRUCTIVE USES PERMITTED ON PUBLIC SIDEWALKS AT LOCATIONS DESIGNATED BY A WHITE STRIPE. SEE SM-16 FOR FORMAT.

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
 CIRCUS CIRCUS DRIVE TRAFFIC SIGNAL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019

Kimley-Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. (702) 882-3600

SCALE	SHEET No
HORIZ: 1" = 20'	TS-11
VERT: N/A	SHEET 196 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.razz
 Path: K:\AV_Public\Trans\092061-1\VB_Roadway-Signal\CAD\Plansheets\092061021-TS - Circus_Circus.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.

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

CONDUIT AND WIRE SCHEDULE

Table with columns for WIRE & CABLE, FROM, TO, and CONDUIT (1-39). Includes entries for No. 2/0 AWG (EX), No. 4 CONDUCTOR THW-2 OR XHHW-2, and various video detection cables.

POLE SCHEDULE

Table with columns for POLE, LOCATION STATION & OFFSET, TYPE, FOUND, MAST ARM, LUMINAIRE, SIGNALS (VEHICLE, PEDESTRIAN), PEDESTRIAN PUSH BUTTON, RED LIGHT INDICATORS, EMERGENCY VEHICLE DETECTOR, and REMARKS.

STREET NAME SIGN SCHEDULE

Table with columns for POLE, NO., DIRECTION, STREET NAME, SUFFIX, BLOCK NO., and REMARKS. Lists signs for Circus Circus, Elvis Presley Blvd, and Las Vegas Blvd.

RELOCATION NOTES

- 40 RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
41 RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.

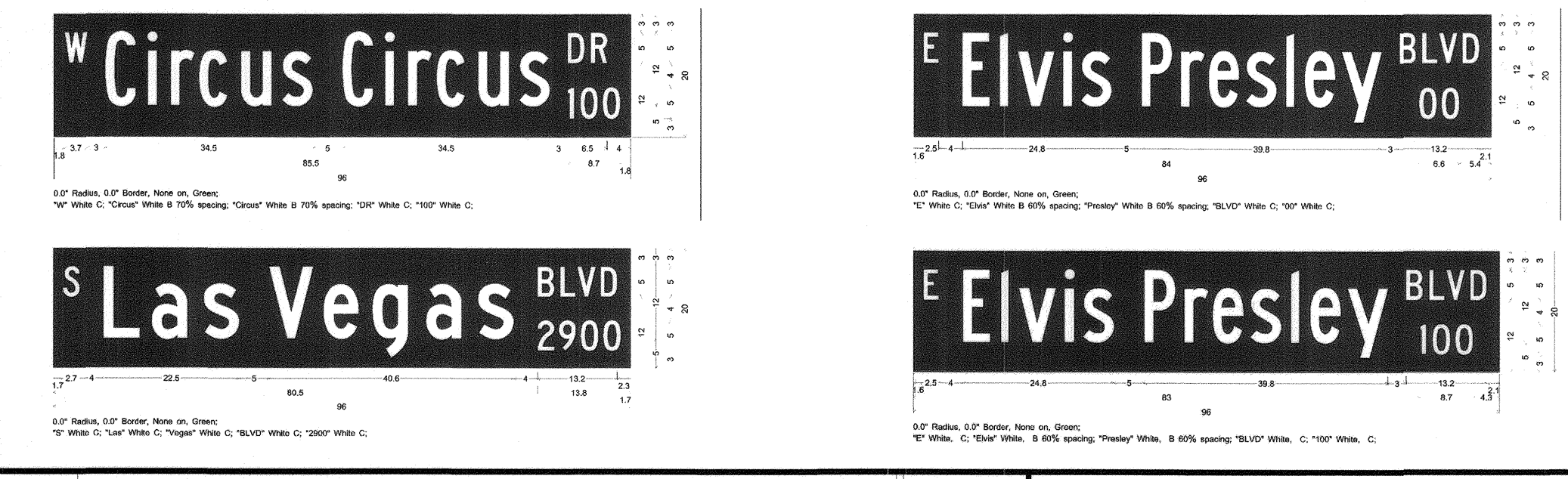
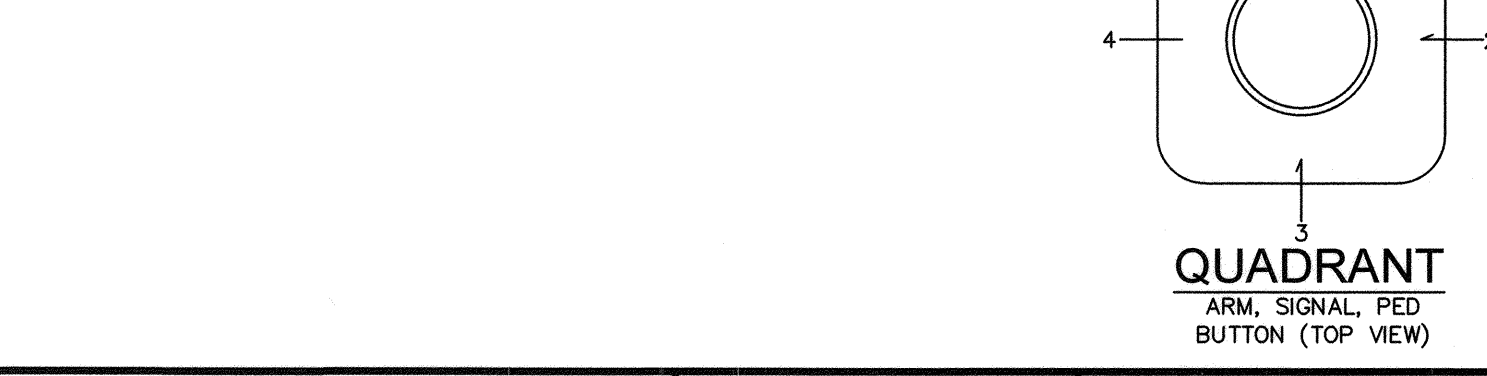
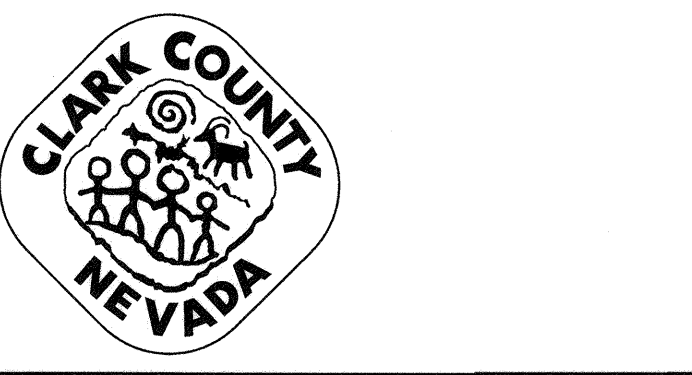
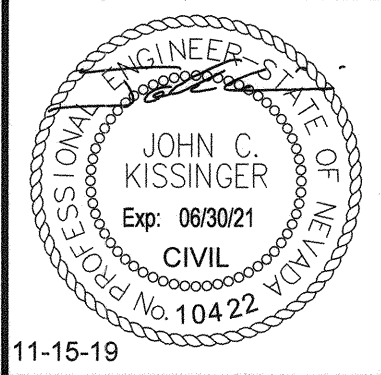


Table with columns for NO., REVISIONS, and DATE. Includes entries for 'ISSUED FOR CONSTRUCTION' and 'REVISED PER REVISION NO. 2'.



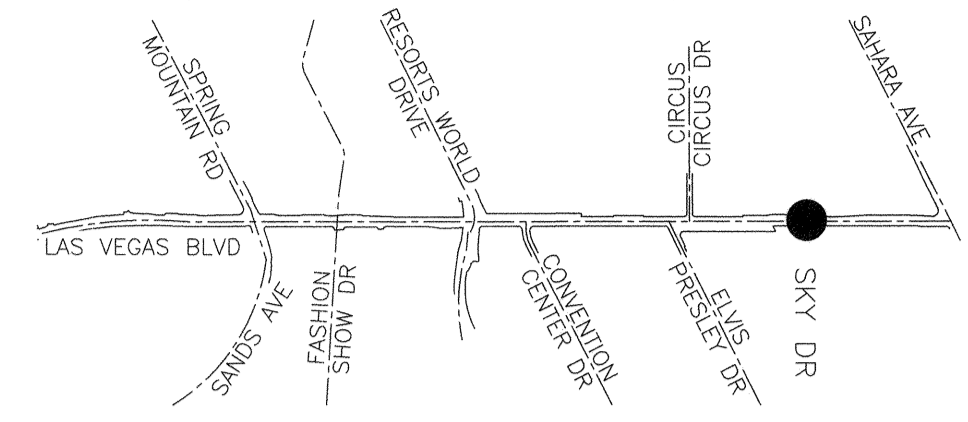
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE CIRCUS CIRCUS DRIVE TRAFFIC SIGNAL SCHEDULE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ZMH
DRAWN BY: MCD
CHECKED BY: JCK
DATE: 11-15-2019
Kimley Horn logo and address: 6671 Las Vegas Boulevard South, Suite 320, Las Vegas, Nevada 89119. Tel. No. (702) 862-3600.

Table with columns for SCALE, SHEET No., and SHEET 197 OF 345. Includes 'L-2210' and 'ISSUED FOR CONSTRUCTION'.

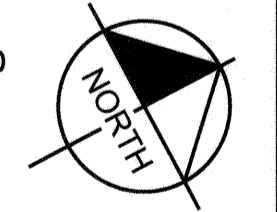
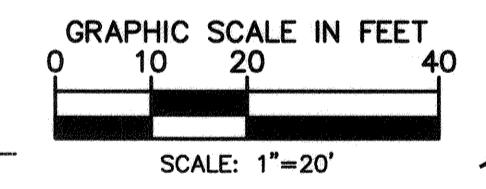
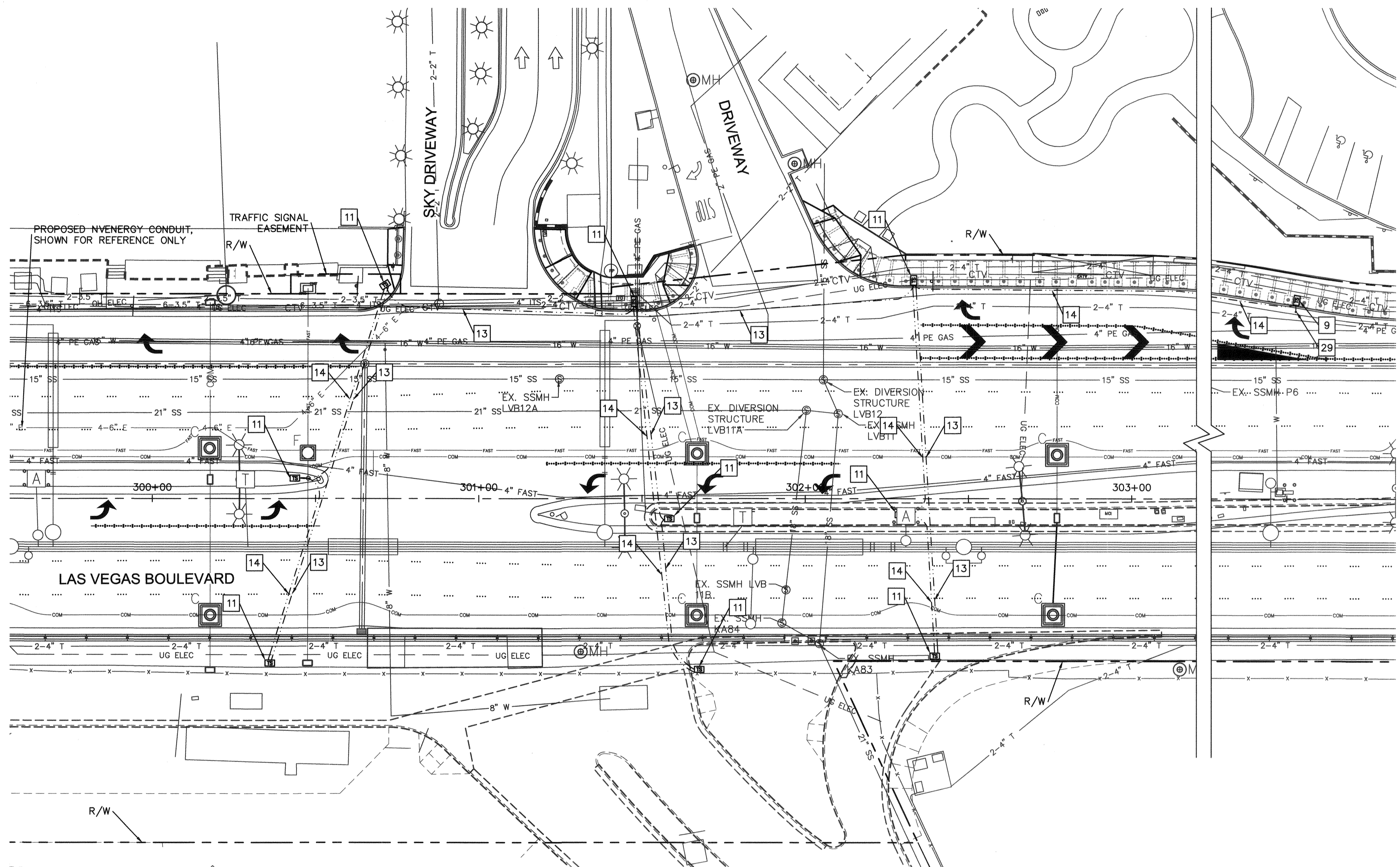
Vertical text on the left margin: User: fernando.roz; Path: K:\LAV_PublicTrans\0920061_CCD\021-LVB_Roadway-Signal\CAD\Plansheets\0920061021-TS - Circus_Circus.dwg / This document, together with the contents and designs presented herein, is intended only for the specific purpose and client for which it was prepared. 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.



KEY MAP
NTS

CONSTRUCTION NOTES

- 9 FURNISH AND INSTALL No. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 706.
- 11 FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
- 13 FURNISH AND INSTALL 3-3" AND 1-2" CONDUIT WITH TRACER WIRE FOR FUTURE USE.
- 14 FURNISH AND INSTALL 1-3" CONDUIT WITH TRACER WIRE FOR FUTURE USE.
- 29 INSTALL 2" CONDUIT STUB OUT, 12" IN LENGTH, FOR FUTURE LOOP WIRE. CAP CONDUIT.

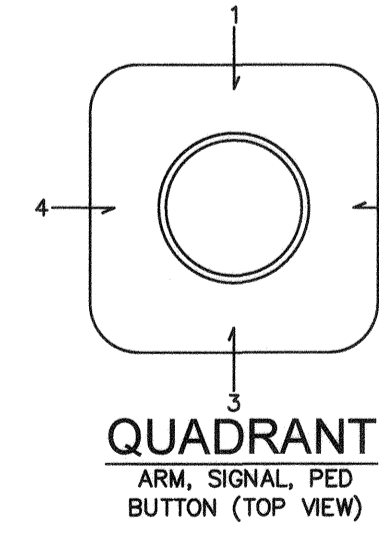


BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

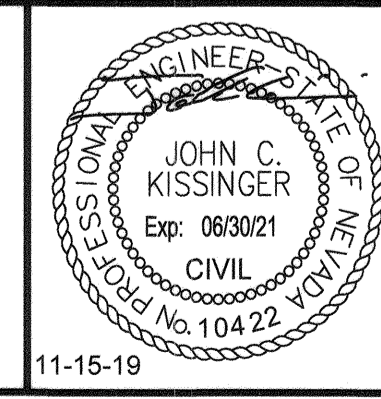
CLARK COUNTY VERTICAL CONTROL v.2003
BENCHMARK No. 4C11 28NW6
A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
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NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
NORTH AMERICAN VERTICAL DATUM OF 1988



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
SKY DRIVEWAY TRAFFIC SIGNAL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



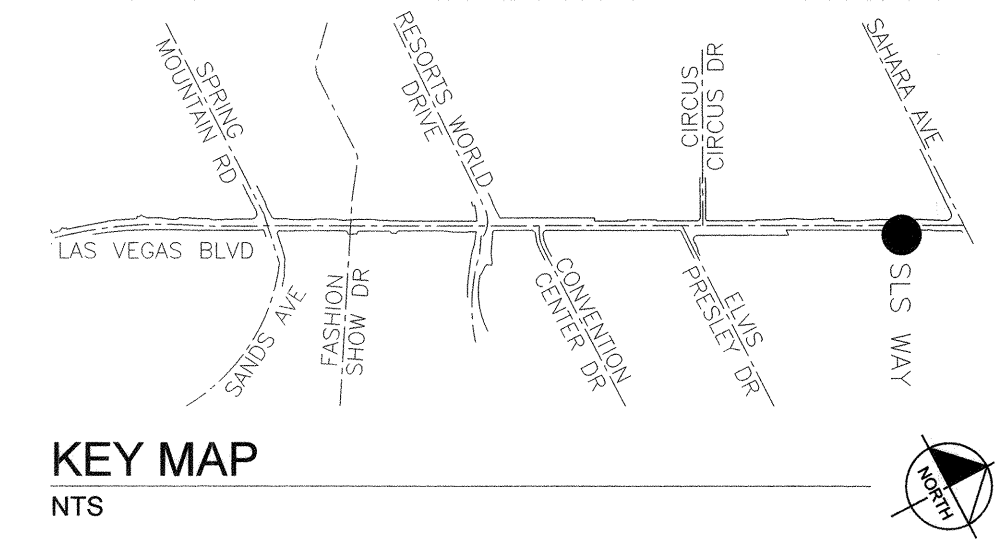
DESIGNED BY: ZMH
DRAWN BY: MCD
CHECKED BY: JCK
DATE: 11-15-2019

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

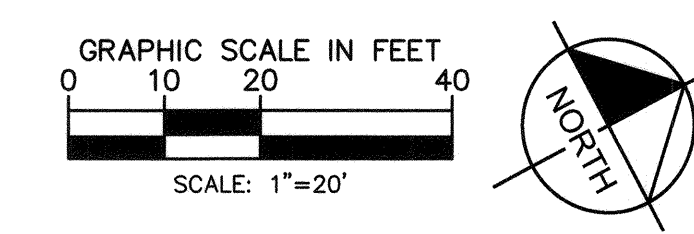
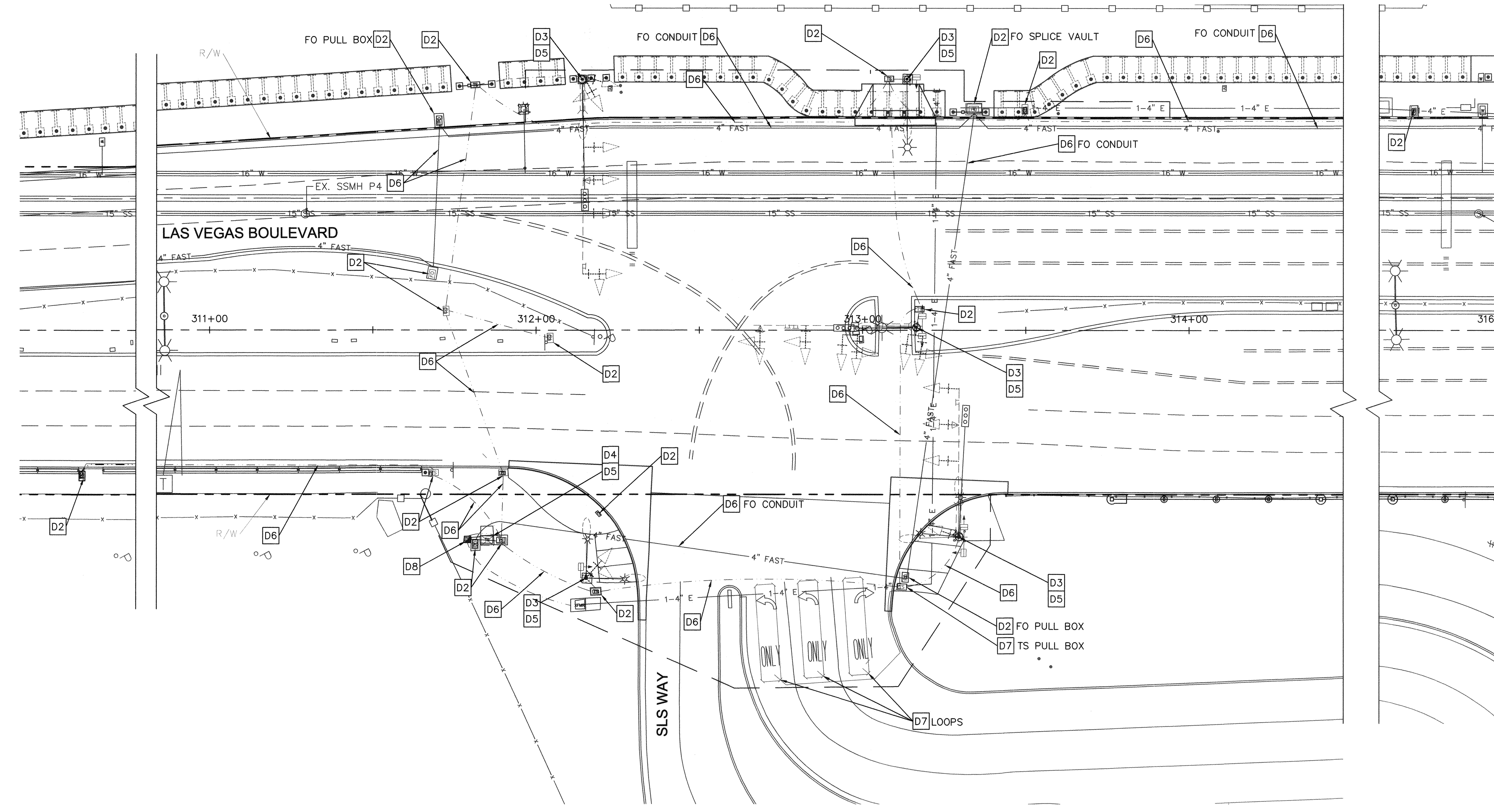
SCALE	HORIZ. 1" = 20'	SHEET No.
	VERT. N/A	TS-13
FIELD BOOK	NONE	SHEET 198 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

User: fernando.roz; Path: K:\LAV_Public\Drawings\092061021-TS - Skydwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Issue of and improper reliance on this document without written authorization and objection by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- DEMOLITION NOTES**
- D2 REMOVE EXISTING PULL BOX.
 - D3 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT. SEE POLE SCHEDULE.
 - D4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CABINET.
 - D5 REMOVE EXISTING FOUNDATION. SEE SPECIAL PROVISIONS.
 - D6 ABANDON CONDUIT IN PLACE. REMOVE CONDUCTORS/CABLING.
 - D7 PROTECT IN PLACE.
 - D8 REMOVE AND SALVAGE EXISTING METER PEDESTAL.



811
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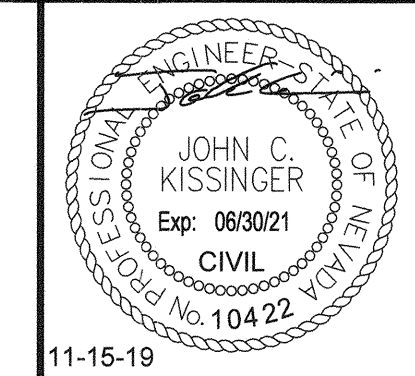
Call Before You UnderGround
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SLS WAY TRAFFIC SIGNAL DEMOLITION PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



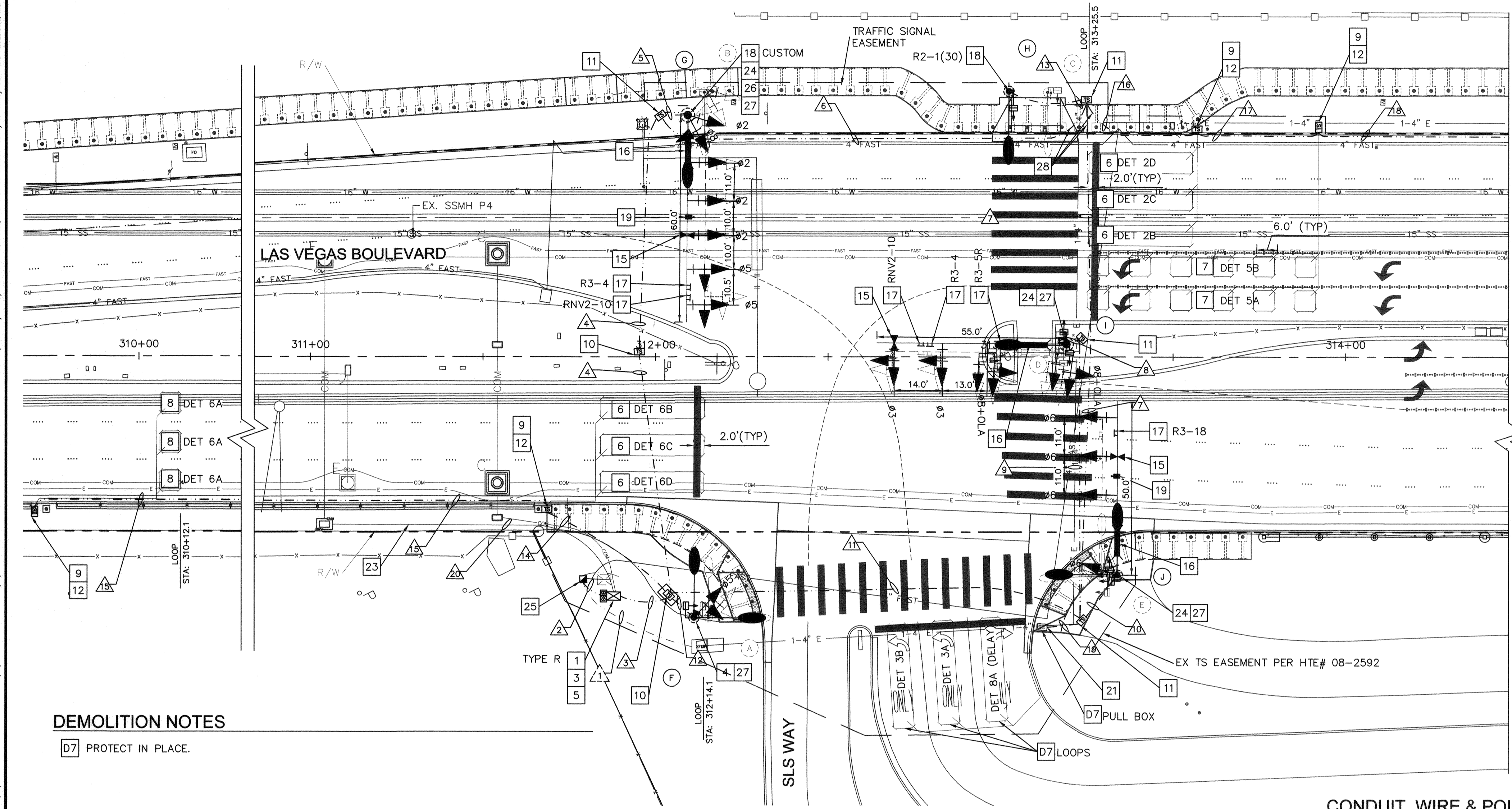
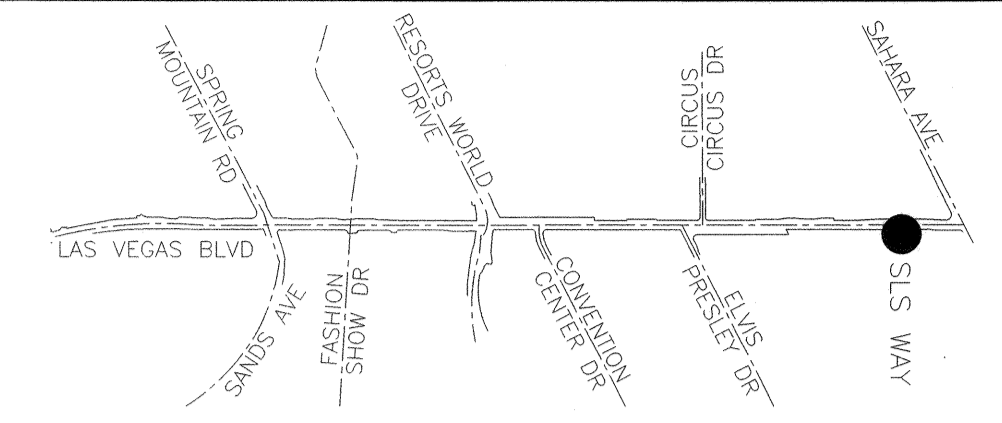
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Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	HORIZ: 1" = 20'	VERT: N/A	FIELD BOOK: NONE	SHEET No	TS-15
				SHEET 200 OF 345	L-2210

ISSUED FOR CONSTRUCTION

NOTE: CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS IN OPERATION AND CONNECTED TO THE EXISTING F.A.S.T. SYSTEM DURING CONSTRUCTION.



- ### CONSTRUCTION NOTES
- FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND CCAUSD NO. 803.
 - FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS.
 - FURNISH AND INSTALL GPS OPTICOM RECEIVER ON TRAFFIC SIGNAL POLE. SEE SPECIAL PROVISIONS.
 - FURNISH AND INSTALL BATTERY BACKUP SYSTEM MOUNT ON TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS. CABINET MOUNTING ORIENTATION AS SHOWN ON PLANS.
 - INSTALL 6'x30' PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 830 OR 831 FOR LOOP AND SAWCUT DETAILS.
 - INSTALL (6) 6'x6' LEFT TURN PRESENCE LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
 - INSTALL 6'x6' ADVANCED LOOP DETECTOR AS SHOWN ON PLANS AND PER TRAFFIC SIGNAL NOTES (SHEET TS-01). SEE CCAUSD Nos. 826 AND 828 FOR LOOP AND SAWCUT DETAILS.
 - FURNISH AND INSTALL No. 5 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 706.
 - FURNISH AND INSTALL TYPE 100 TRAFFIC SIGNAL PULL BOX PER DETAIL ON SHEET TS-18.
 - FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
 - CONNECT LOOP WIRE TO LOOP CABLE PER CCAUSD No. 827.
 - FURNISH AND INSTALL OPTICOM DETECTOR (INCLUDING ALL REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
 - FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM (TYPE AS NOTED ON PLANS) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL POLE (TYPE AS NOTED) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE, THIS SHEET, FOR SIGN DESIGNATION AND SIZE.
 - FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 6 FT EXTENSION ON MAST ARM. SEE SPECIFICATIONS.
 - CONNECT NEW CONDUIT INTO EXISTING PULL BOX.
 - SEE COMMUNICATION PLANS FOR CDCA CONNECTION TO TRAFFIC SIGNAL.
 - FURNISH AND INSTALL VANDALISM PLATE ON POLE PER DETAIL ON SHEET TS-19.
 - FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON EXISTING CONCRETE FOUNDATION PER CCAUSD No. 730.
 - FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
 - FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.
 - INSTALL CONDUIT BY HORIZONTAL DIRECTIONAL DRILLING UNDER EXISTING SHALLOW MOUNT BOLLARDS. EXISTING BOLLARDS AND BOLLARD APPURTENANCES SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED.

DEMOLITION NOTES

- D7 PROTECT IN PLACE.

CONDUIT, WIRE & POLE SCHEDULE

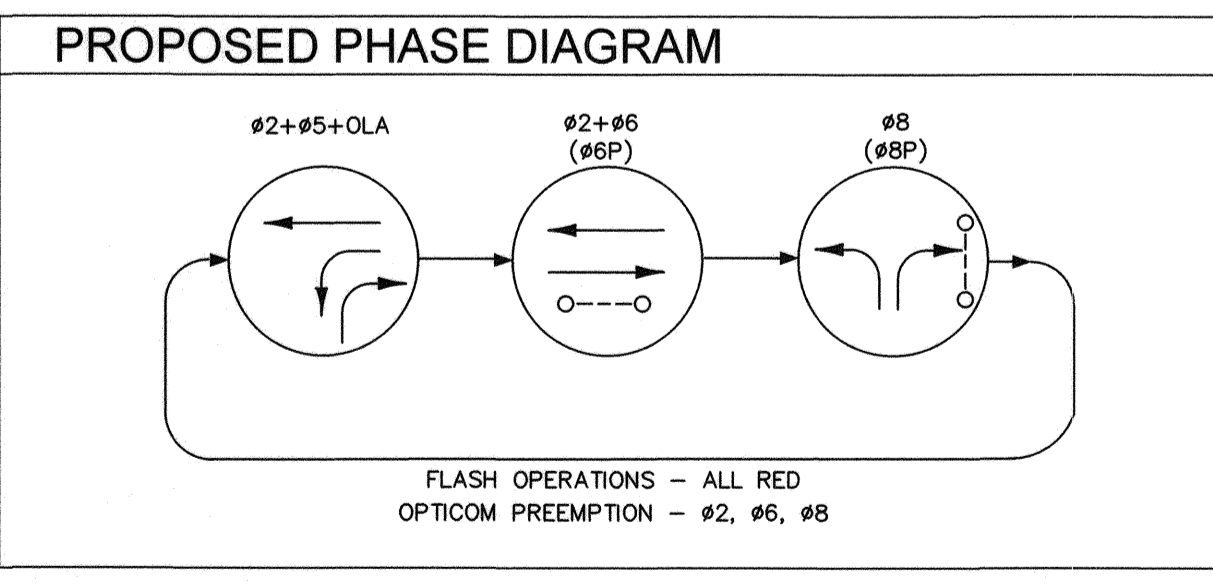
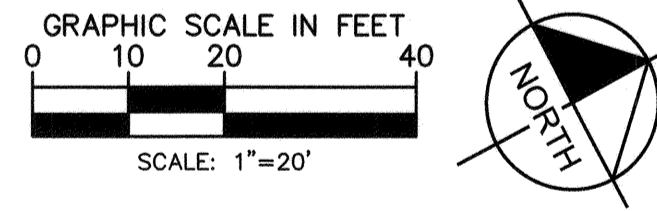
REFER TO SHEET TS-17 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

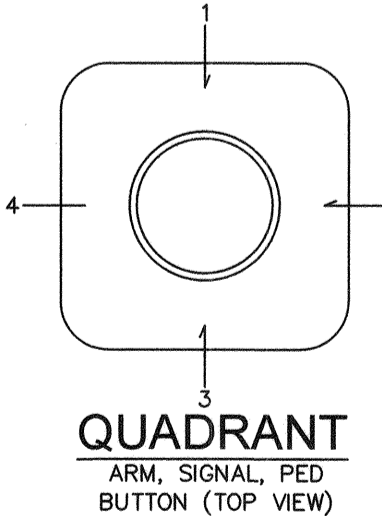
BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 2BNW6
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
 NAVD 88 ELEVATION = 2134.73 FEET (650.667 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988
 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988



SIGN SCHEDULE

R3-5R 30"x36"	R3-4 24"x24"	R3-18 24"x24"	RNV2-10 30"x36"	R2-1(30) 30"x36"	CUSTOM 36"x36"
ONLY			ONLY ONLY	30	SEE TS-19 FOR FORMAT

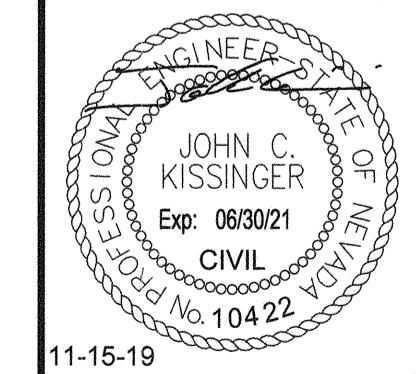


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2	REVISED PER REVISION NO. 2	11/15/2019



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 SLS WAY TRAFFIC SIGNAL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019

Kimley»Horn
 6071 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1"=20'	TS-16
VERT: N/A	SHEET 201 OF 345
FIELD BOOK NONE	L-2210

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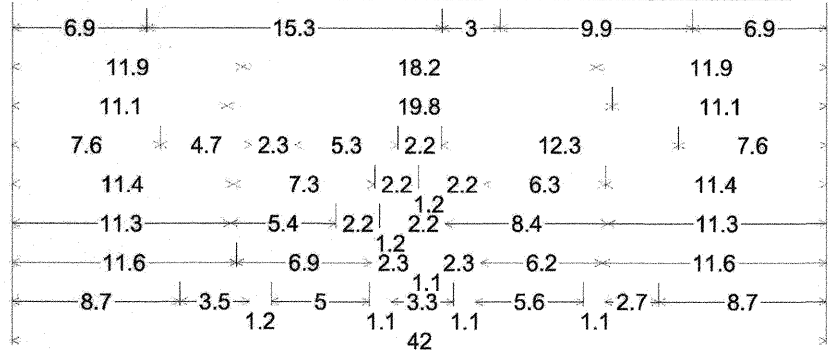
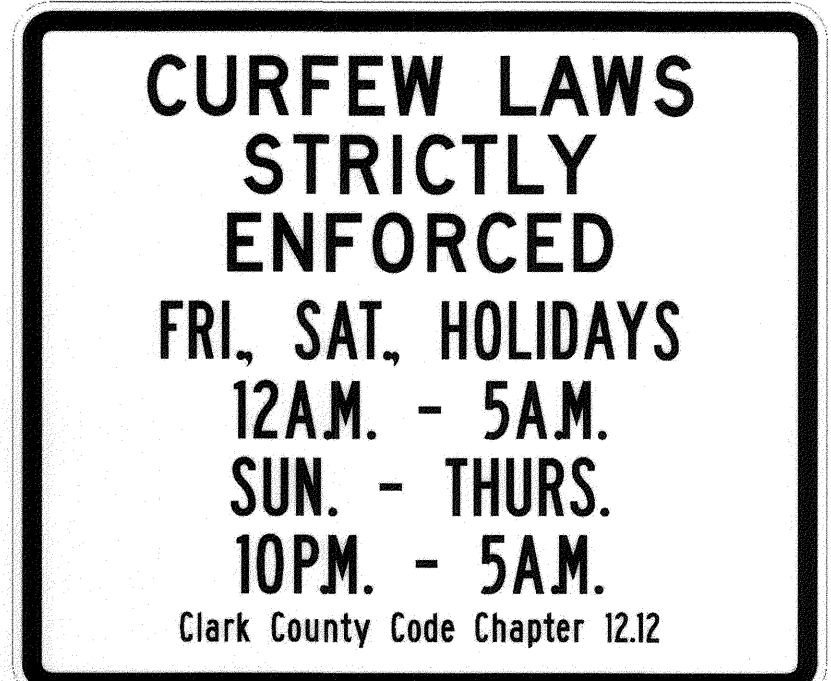
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS BID No.: 605203-19

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	CONDUIT																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
(3) No. 2/0 AWG (EX)	SERVICE POINT	SERVICE PEDESTAL																				
(3) No. 4 CONDUCTOR THW-2 OR XHHW-2	SERVICE PEDESTAL	CONTROLLER	●																			
(1) No. 8 GROUND (GREEN)																						
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE	CONTROLLER	POLE F		●																		
(1) 25 COND. IMSA 20-1 No. 14 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE G		●	●																	
(1) 25 COND. IMSA 20-1 No. 14 (1) CCTV CABLE	CONTROLLER	POLE H		●						●												
(1) 25 COND. IMSA 20-1 No. 14 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE I		●						●	●											
(1) 25 COND. IMSA 20-1 No. 14 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE J		●						●	●											
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE F		●																		
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE G		●	●																	
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE H		●						●												
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE I		●						●												
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE J		●						●												
LOOP LEAD - IN CABLE	CONTROLLER	#2 LOOPS		●						●												
LOOP LEAD - IN CABLE	CONTROLLER	#2 ADVANCE LOOPS		●						●												
LOOP LEAD - IN CABLE	CONTROLLER	#5 LOOPS		●						●												
LOOP LEAD - IN CABLE	CONTROLLER	#6 LOOPS		●						●												
LOOP LEAD - IN CABLE	CONTROLLER	#6 ADVANCE LOOPS		●						●												
LOOP LEAD - IN CABLE	CONTROLLER	#8 LOOPS		●						●												
(1) 12 CDCA	CONTROLLER	T200 S.V.																				●
(1) No. 8 (GREEN)	CONTROLLER TO POLES		1	2	7	4	2	4	4	2	4	2	4	2	2	1	1	1	1	1	1	1
PULL ROPE	(NUMBER AS SHOWN)		1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

No. OF CONDUITS - CONDUIT SIZE:
(E) = EXISTING CONDUITS

CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)



2.0" Radius, 1.0" Border, 0.5" Indent, Black on, White;
 "CURFEW LAWS" D; "STRICTLY" D; "ENFORCED" D;
 "FRI, SAT, HOLIDAYS" B 75% spacing; "12A.M. - 5A.M." B 75% spacing;
 "SUN. - THURS." B 75% spacing; "10P.M. - 5A.M." B 75% spacing;
 "Clark County Code Chapter 12.12" B 75% spacing;

POLE SCHEDULE

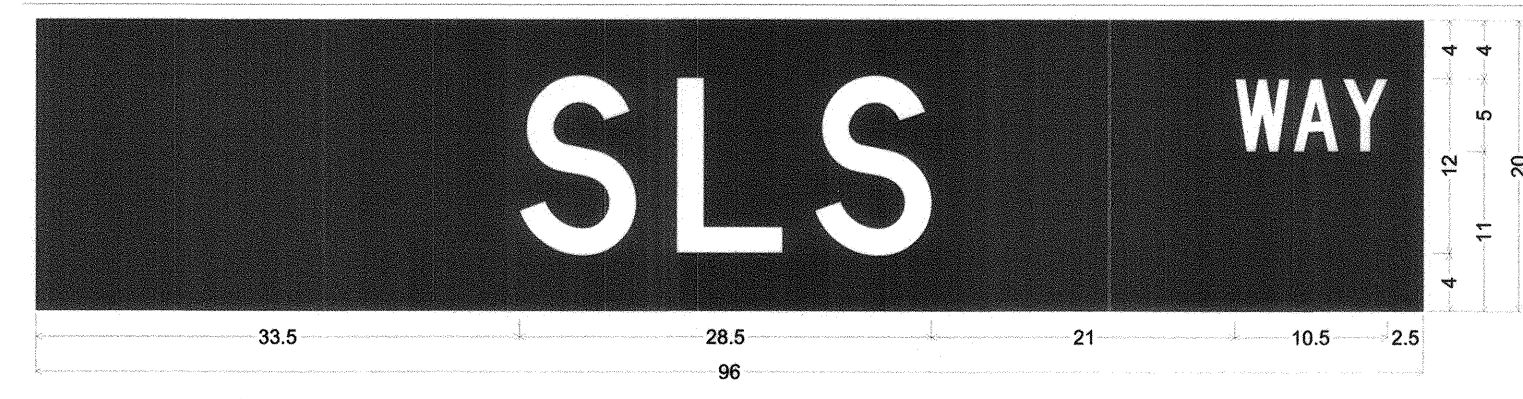
POLE	LOCATION STATION & OFFSET (LAS VEGAS BOULEVARD) TOP OF FOUNDATION ELEV.	POLE		SIGNALS				PEDESTRIAN			RED LIGHT INDICATORS			EMERGENCY VEHICLE DETECTOR	REMARKS		
		TYPE	FOUND	VEHICLE ***		PEDESTRIAN		ARROW	QUAD	TYPE	PHASE	QUAD	TYPE			PHASE	QUAD
				MAST ARM*	LUMINAIRE**	TYPE	QUAD										
A	STA: 312+15.35 OFF: 75.25' RT	(EX)	(EX)	-	-	(EX)	(EX)	(1) B-5T (EX)	1 (EX)	W-0T (EX)	4	LT	1	-	-	-	SEE TS-15
B	STA: 312+14.07 OFF: 76.46' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) M-2L (EX) (3) M-2 (EX) (1) B-2T (EX)	MA (EX) MA (EX) 1 (EX)	-	-	-	-	-	-	-	SEE TS-15
C	STA: 313+13.57 OFF: 76.53' LT	(EX)	(EX)	-	-	(EX)	(EX)	-	-	W-0T (EX)	2	LT	2	-	-	-	SEE TS-15
D	STA: 313+16.57 OFF: 0.82' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) MAS-5A (EX) (2) M-2L (EX) (1) B-11T (EX)	MA (EX) MA (EX) 2 (EX)	W-3T (EX)	2	LT/RT	4	-	-	-	SEE TS-15
E	STA: 313+29.43 OFF: 62.79' RT	(EX)	(EX)	-	-	(EX)	(EX)	(3) M-2 (EX) (1) B-1T (EX)	MA (EX) 3 (EX)	W-4T (EX)	3	LT	4	-	-	-	SEE TS-15
F	STA: 312+11.21 OFF: 69.93' LT	XX-A	L	-	-	1	15'	(1) B-5T	1	W-0T	1	LT	1	-	-	-	41 FROM A
G	STA: 312+09.31 OFF: 69.93' LT	XX-B	M	3	60'	3	15'	(2) M-2L (3) M-2 (1) B-2T	MA MA 1	-	-	-	-	RED BLUE	#2 #3	4	TWO WAY
H	STA: 313+02.40 OFF: 76.80' LT	XX-A	L	-	-	3	15'	-	-	W-0T	2	LT	2	-	-	-	40 44 FROM C
I	STA: 313+19.11 OFF: 3.73' LT	XX-B	M	4	55'	4	15'	(1) MAS-5A (2) M-2L (1) B-11T	MA MA 2	W-3T	2	LT/RT	4	-	-	-	ONE WAY
J	STA: 313+33.83 OFF: 62.51' RT	XX-A	L	1	50'	1	15'	(3) M-2 (1) B-1T	MA 3	W-4T	3	LT RT	4 1	RED BLUE	#6 #5	2	TWO WAY

* CONTRACTOR SHALL PROVIDE SIGNAL MAST ARM AT LENGTH SPECIFIED IN POLE SCHEDULE. CONTRACTOR SHALL PROVIDE WEATHER TYPE CAP AT THE END OF THE MAST ARM AND SHALL BE APPROVED BY THE ENGINEER. TENONS TO BE FIELD DRILLED PER SPACING SPECIFIED ON LAYOUT SHEET AND SHALL BE PRIMED AND PAINTED.
 ** PROPOSED LUMINAIRES SHALL CONFORM W/ CURRENT CLARK COUNTY STANDARDS & SPECIFICATIONS. REFER TO TYPE B FIXTURE ON SHEET EL-10.
 *** ALL TRAFFIC SIGNAL HEAD BACKPLATES SHALL BE INSTALLED WITH A YELLOW RETROREFLECTIVE STRIP. SEE SPECIAL PROVISIONS.

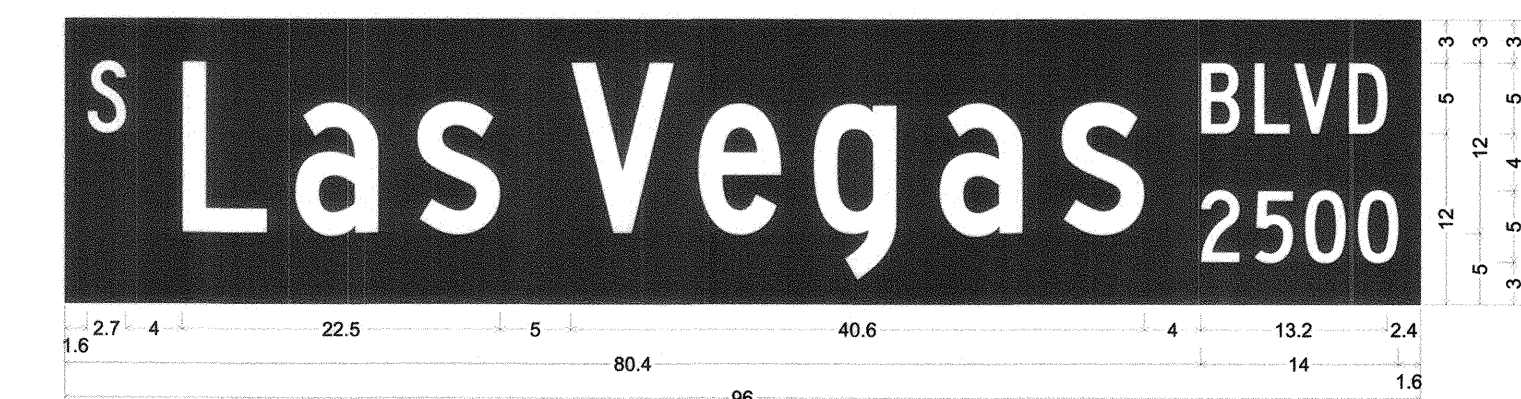
STREET NAME SIGN SCHEDULE

POLE	STREET NAME SIGNS				REMARKS	
	NO.	DIRECTION	STREET NAME	SUFFIX		
B		E	SLS	WAY	0	REMOVE AND SALVAGE SIGN
D		S	LAS VEGAS	BLVD	2500	REMOVE AND SALVAGE SIGN
E		E	SLS	WAY	0	REMOVE AND SALVAGE SIGN
G		-	SLS	WAY	-	FURNISH AND INSTALL
I		S	LAS VEGAS	BLVD	2500	FURNISH AND INSTALL
J		-	SLS	WAY	-	FURNISH AND INSTALL

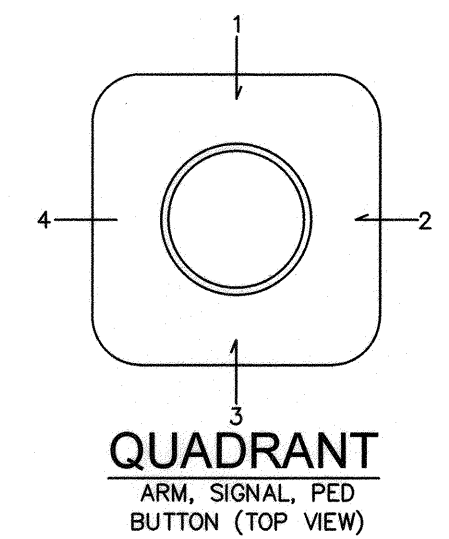
- ### RELOCATION NOTES
- 40 RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
 - 41 RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
 - 42 RELOCATE METRO DOME CAMERA FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
 - 43 RELOCATE EXISTING RED LIGHT RUNNING INDICATOR FROM EXISTING POLE TO NEW POLE ON THIS CORNER PER CCAUSD NO. 811.S1.
 - 44 REMOVE AND SALVAGE EXISTING CAMERA EXTENSION POLE. FURNISH AND INSTALL CAMERA EXTENSION POLE (11'-8" HIGH RISE) PER NDOT DETAIL T-33.11.2. EXTENSION POLE SHALL BE PRIMED AND PAINTED. COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.



0.0" Radius, 0.0" Border, None on, Green;
 "SLS" White D; "WAY" White C;



0.0" Radius, 0.0" Border, None on, Green;
 "S" White C; "Las" White C; "Vegas" White C; "BLVD" White C; "2500" White C;

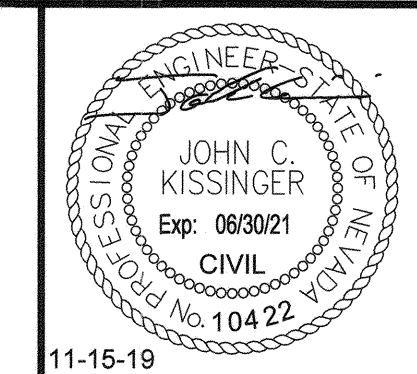


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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SLS WAY TRAFFIC SIGNAL SCHEDULE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



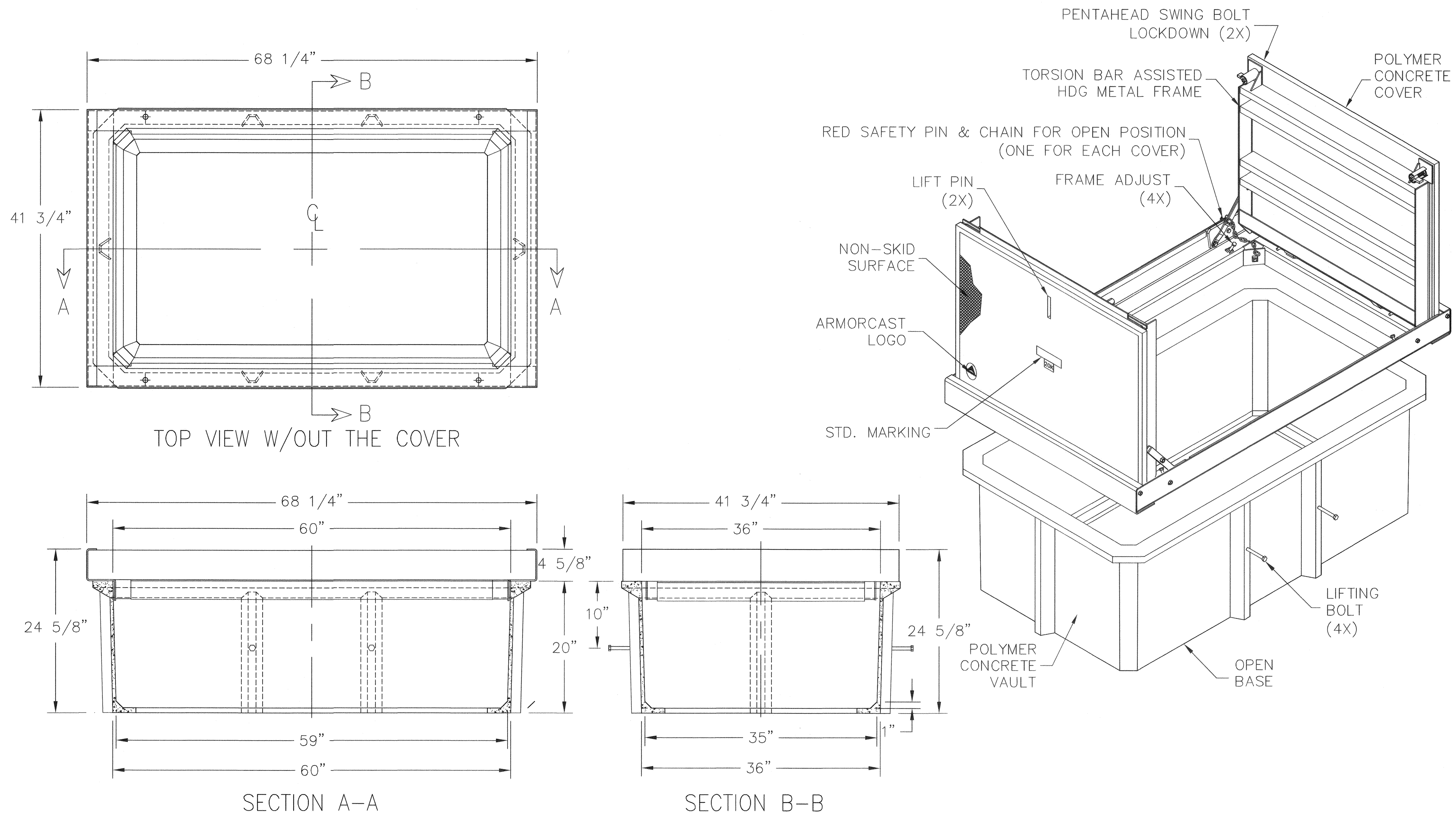
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Kimley Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	HORIZ: N/A	SHEET No
	VERT: N/A	TS-17
FIELD BOOK	NONE	SHEET 202 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

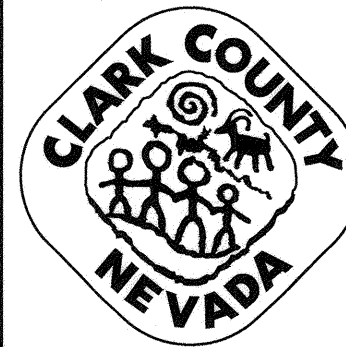
User: fernando.cruz Path: K:\LA_V_P\Public\Trans\092061\CC_021-LVB_Roadway-Signal\CAO\Plan\sheet\092061021-TS - SLS.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



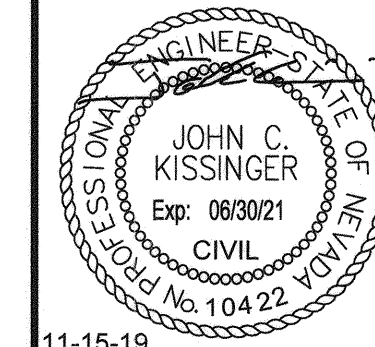
TYPE 100 PULLBOX DETAIL

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 ROADWAY IMPROVEMENTS**
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 TYPE 100 PULLBOX DETAIL
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

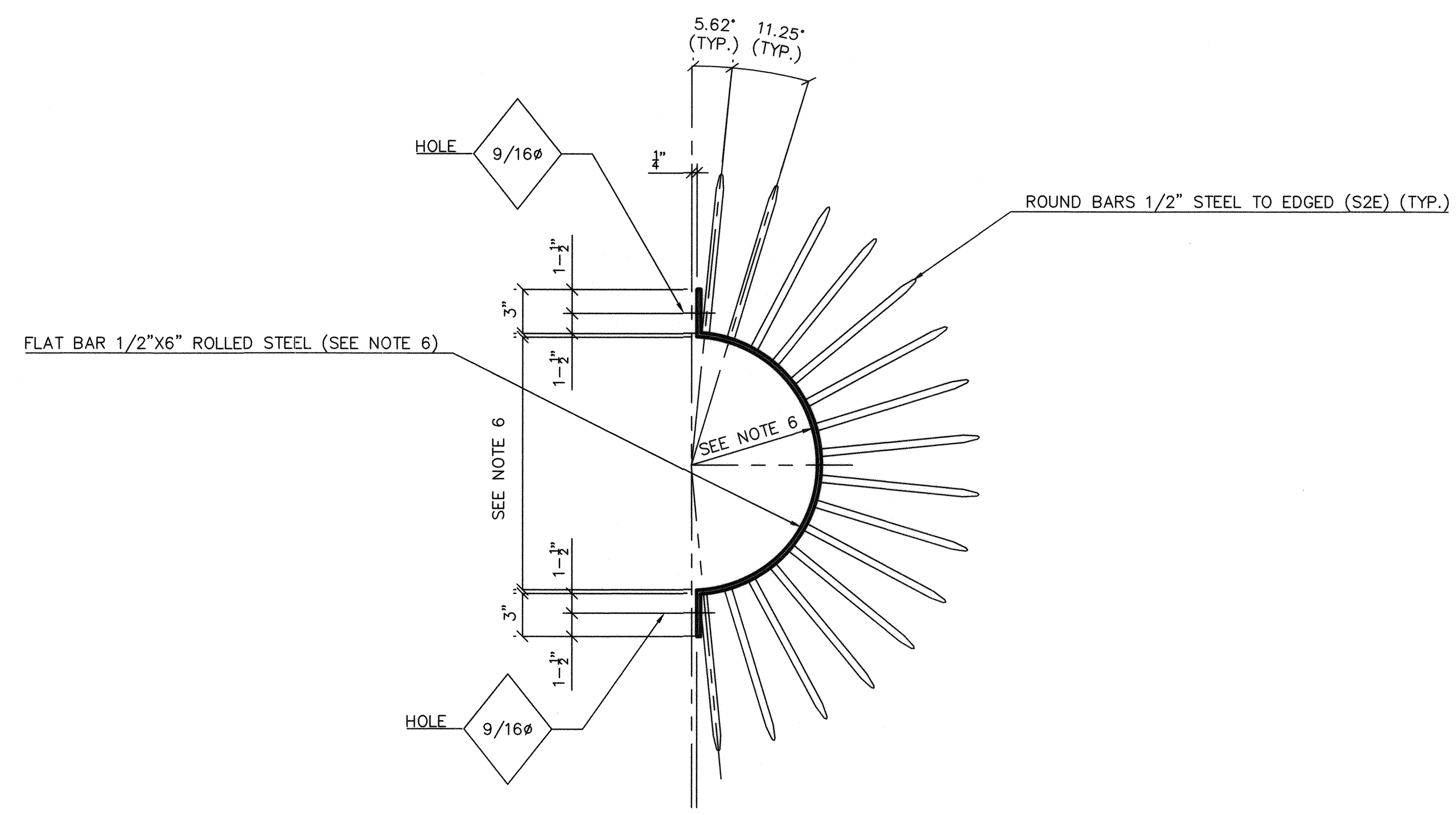


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DRAWN BY:	MCD
CHECKED BY:	JCK
DATE:	11-15-2019
<small>6871 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600</small>	

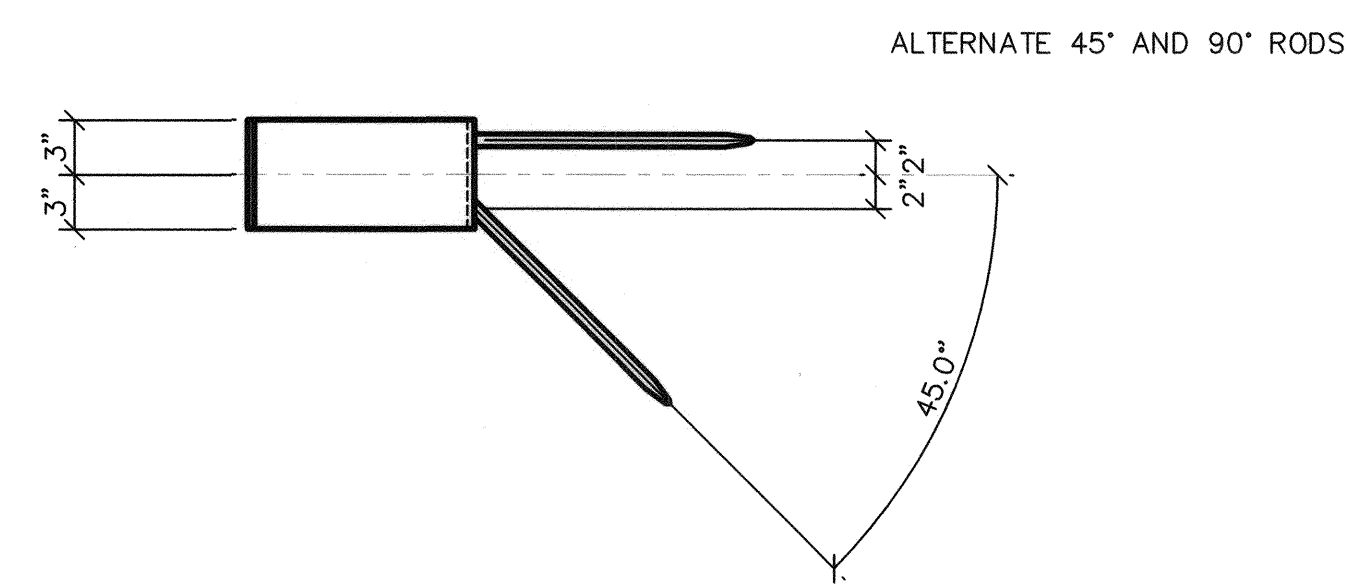
SCALE	SHEET No
HORIZ: N/A	TS-18
VERT: N/A	SHEET 203 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

User: lemandoraez
 Path: K:\AV_Public\Trans\092061_LCC\021-LVB_Roadway-Signal\CAD\Plansheets\092061021-TS - Vandalism Plate.dwg /
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PLAN VIEW



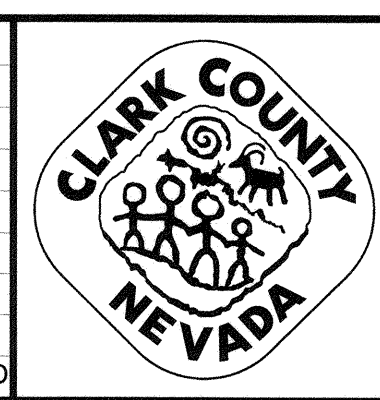
PROFILE VIEW

VANDALISM PLATE DETAIL

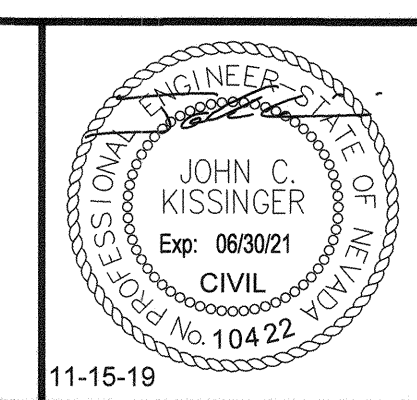
NOTES

1. ONE (1) COMPLETE VANDALISM SET CONSISTS OF TWO (2) VANDALISM PLATES AS SHOWN IN THE DETAIL
2. BOLTS FOR ONE (1) COMPLETE VANDALISM PLATE SET SHALL INCLUDE:
 - TWO (2) 1/2" A325 HEX BOLTS
 - TWO (2) 1/2" A563 GRDH HEX NUTS
 - FOUR (4) 1/2" F436 FLAT WASHERS
 - TWO (2) 1/2" LOCK WASHERS
3. PLATES AND SHAPES PER ASTM A36
4. STRUCTURAL STEEL SHALL BE GALVANIZED PER ASTM A123
5. HARDWARE SHALL BE GALVANIZED PER ASTM A153
6. DIMENSIONS OF FLAT BAR TO BE DETERMINED BASED ON THE DIMENSIONS OF THE SIGNAL POLE 6" BELOW MAST ARM.
7. VANDALISM PLATES SHALL BE PRIMED AND PAINTED. THE COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.

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
 VANDALISM PLATE DETAIL
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

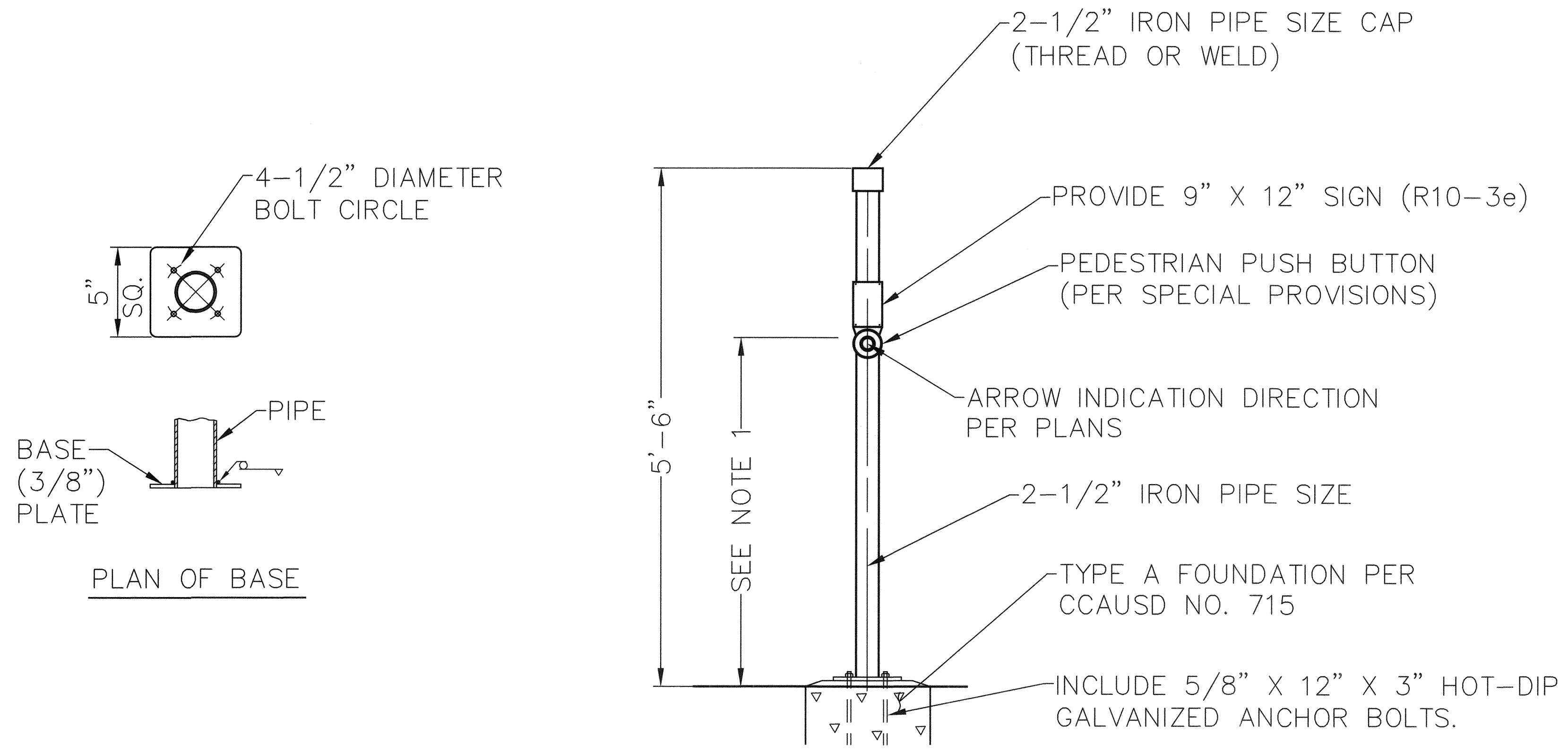


DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-5600

SCALE	SHEET No
HORIZ: N/A	TS-19
VERT: N/A	SHEET 204 OF 345
FIELD BOOK NONE	L-2210

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



NOTES:

1. PEDESTRIAN PUSH BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK.
2. POST SHALL BE PRIMED AND PAINTED COLOR FIR GREEN (RAL 6009) METALLIC.

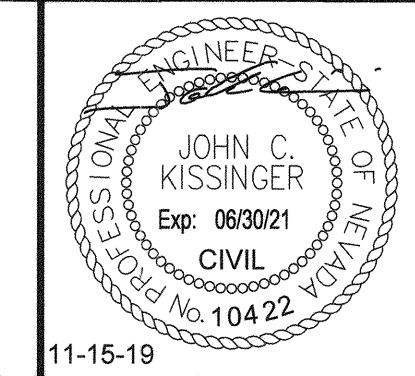
PEDESTRIAN PUSH BUTTON POST DETAIL

User: fernando.mez
 Path: K:\LAV_Public\Trns\092061_LCC\021-LVB_Roadway-Signals\CAD\Plan\sheet\092061\021-TS - PPB Post.dwg /
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NO.	REVISIONS	DATE
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APPROVED		



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 PEDESTRIAN PUSH BUTTON POST DETAIL
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



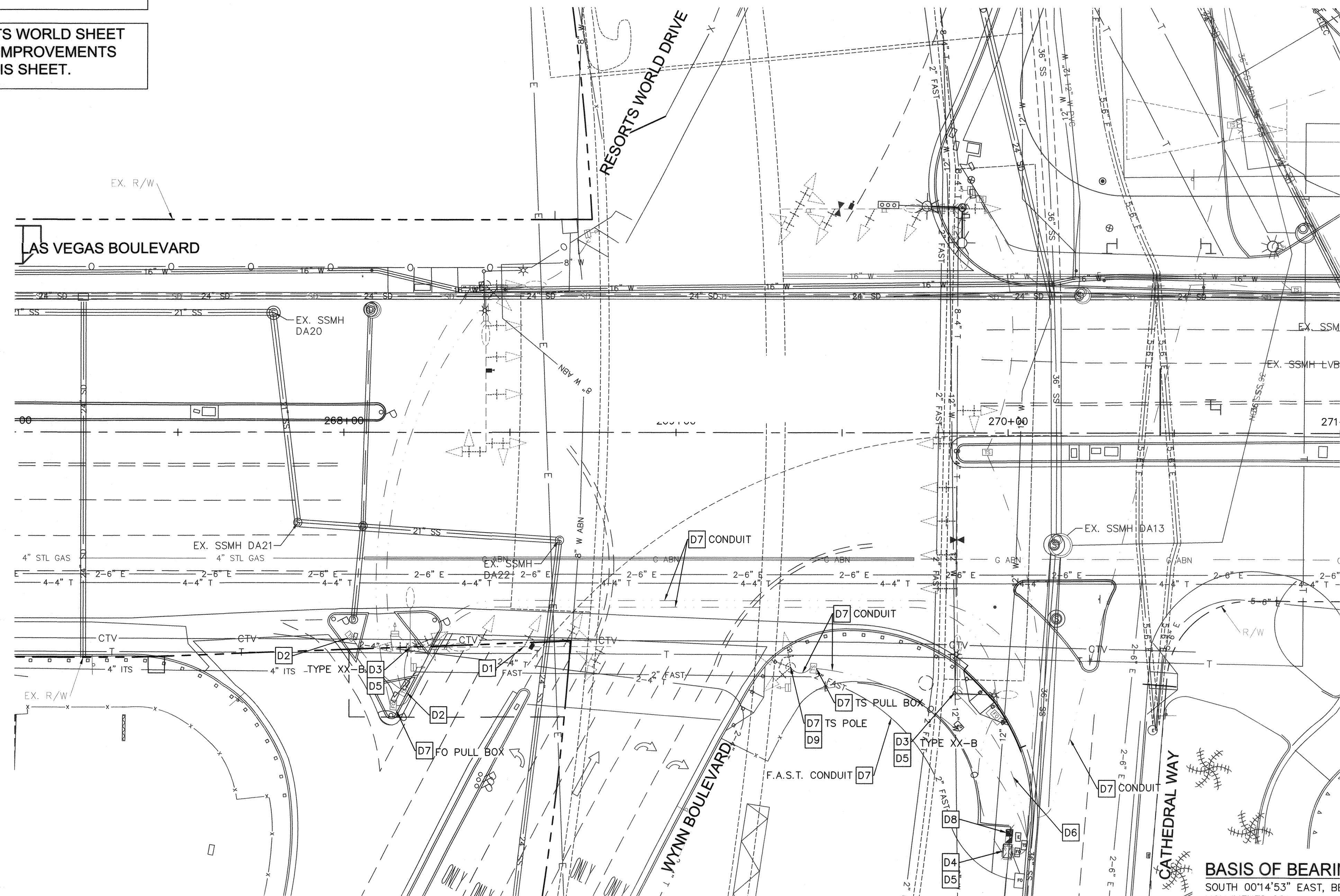
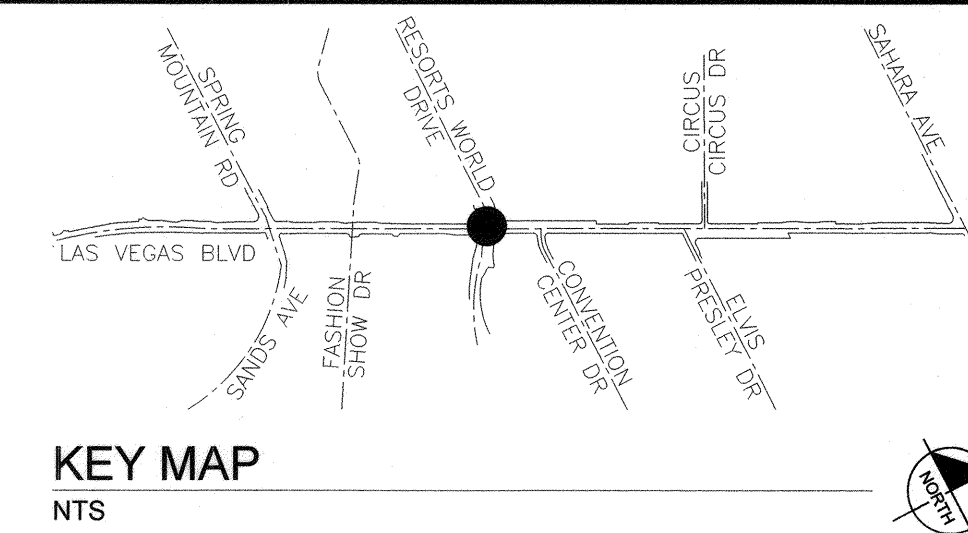
DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019
Kimley»Horn
6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: N/A	TS-20
VERT: N/A	
FIELD BOOK: NONE	SHEET 205 OF 345
	L-2210

ISSUED FOR CONSTRUCTION

NOTE: CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS IN OPERATION AND CONNECTED TO THE EXISTING F.A.S.T. SYSTEM DURING CONSTRUCTION.

NOTE: SEE RESORTS WORLD SHEET TS-11 FOR SIGNAL IMPROVEMENTS NOT SHOWN ON THIS SHEET.



DEMOLITION NOTES

- D1 REMOVE AND SALVAGE EXISTING VIDEO DETECTION SYSTEM.
- D2 REMOVE EXISTING PULL BOX.
- D3 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT. SEE POLE SCHEDULE.
- D4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CABINET.
- D5 REMOVE EXISTING FOUNDATION. SEE SPECIAL PROVISIONS.
- D6 ABANDON CONDUIT IN PLACE. REMOVE CONDUCTORS/CABLING.
- D7 PROTECT IN PLACE.
- D8 REMOVE AND SALVAGE EXISTING METER PEDESTAL.
- D9 REMOVE EXISTING SIGNAL EQUIPMENT ON POLE.

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 2BNW6
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
 NAVD 88 ELEVATION = 2134.73 FEET (650.667 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988
 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988



SAFETY ALERT
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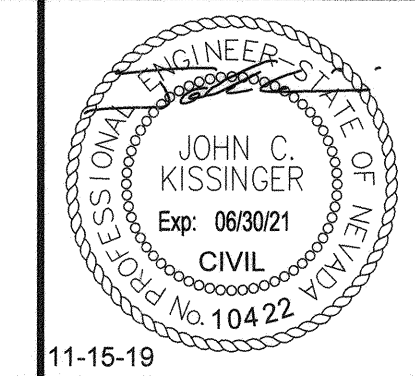


UNION PACIFIC RAILROAD
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 1-800-336-9193

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
 RESORTS WORLD DRIVE TRAFFIC SIGNAL DEMOLITION PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

SCALE	HORIZ: 1" = 20'	VERT: N/A	FIELD BOOK: NONE	SHEET No	TS-21
				SHEET 206 OF 345	L-2210

ISSUED FOR CONSTRUCTION

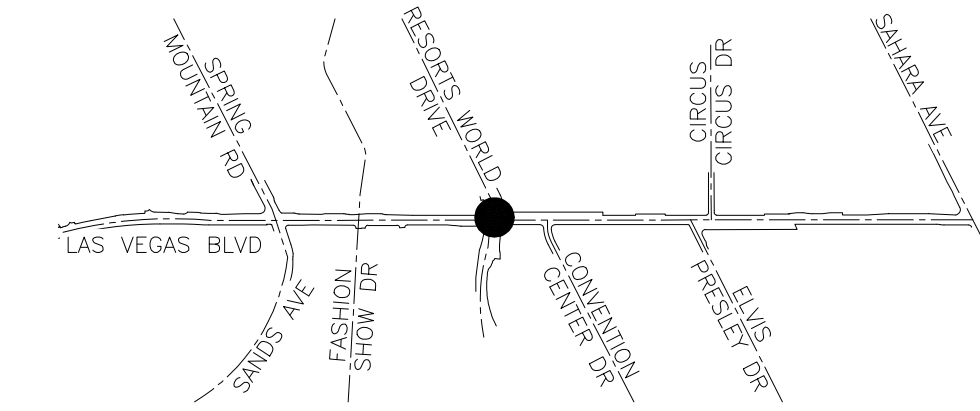
User: fernando.mez Path: K:\vop\publications\092061021-TS - Cathedral 2.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

BID No.: 605203-19

NOTE: CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS IN OPERATION AND CONNECTED TO THE EXISTING F.A.S.T. SYSTEM DURING CONSTRUCTION.

NOTE: SEE RESORTS WORLD SHEET TS-11 FOR SIGNAL IMPROVEMENTS NOT SHOWN ON THIS SHEET.

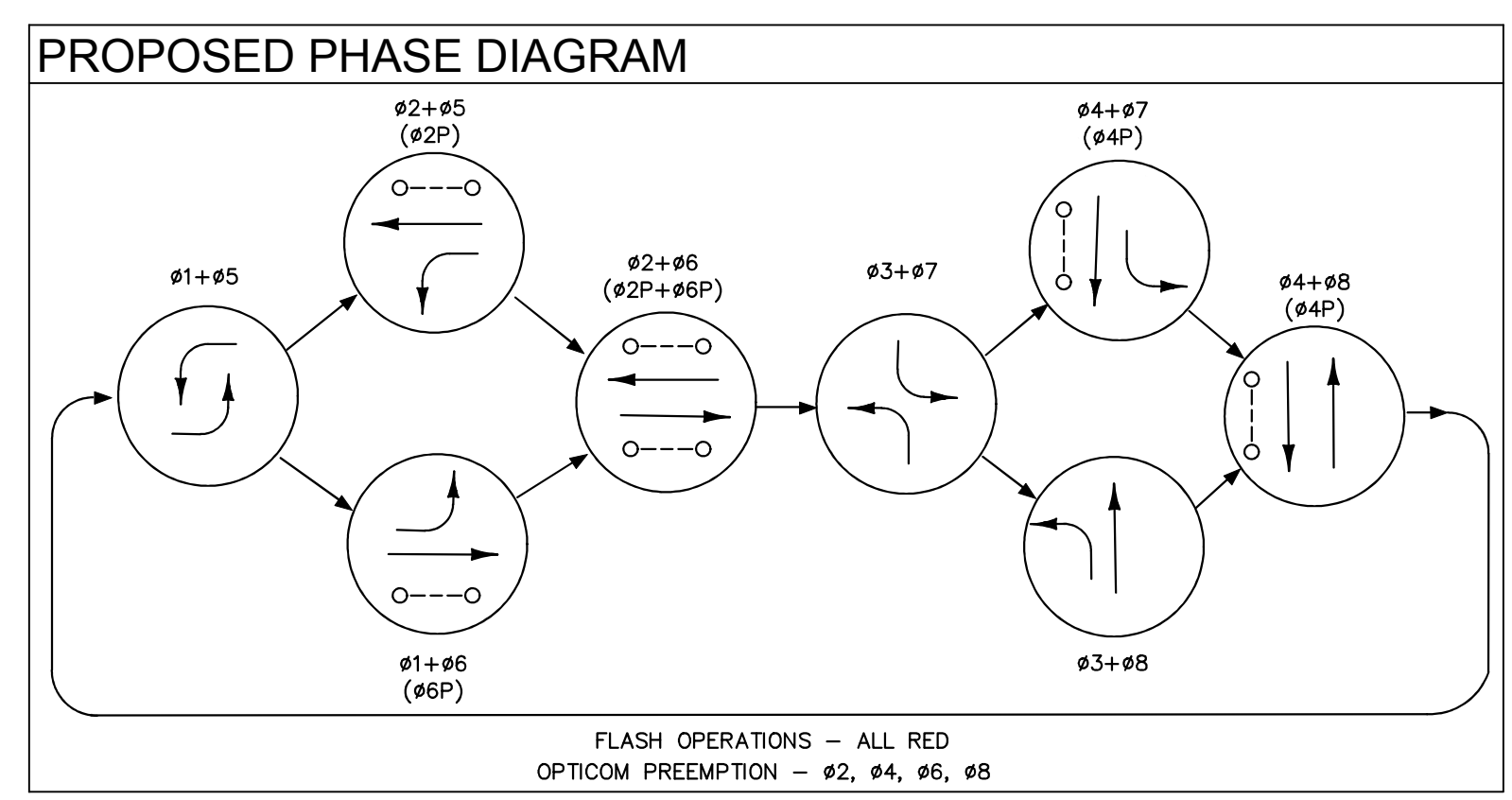
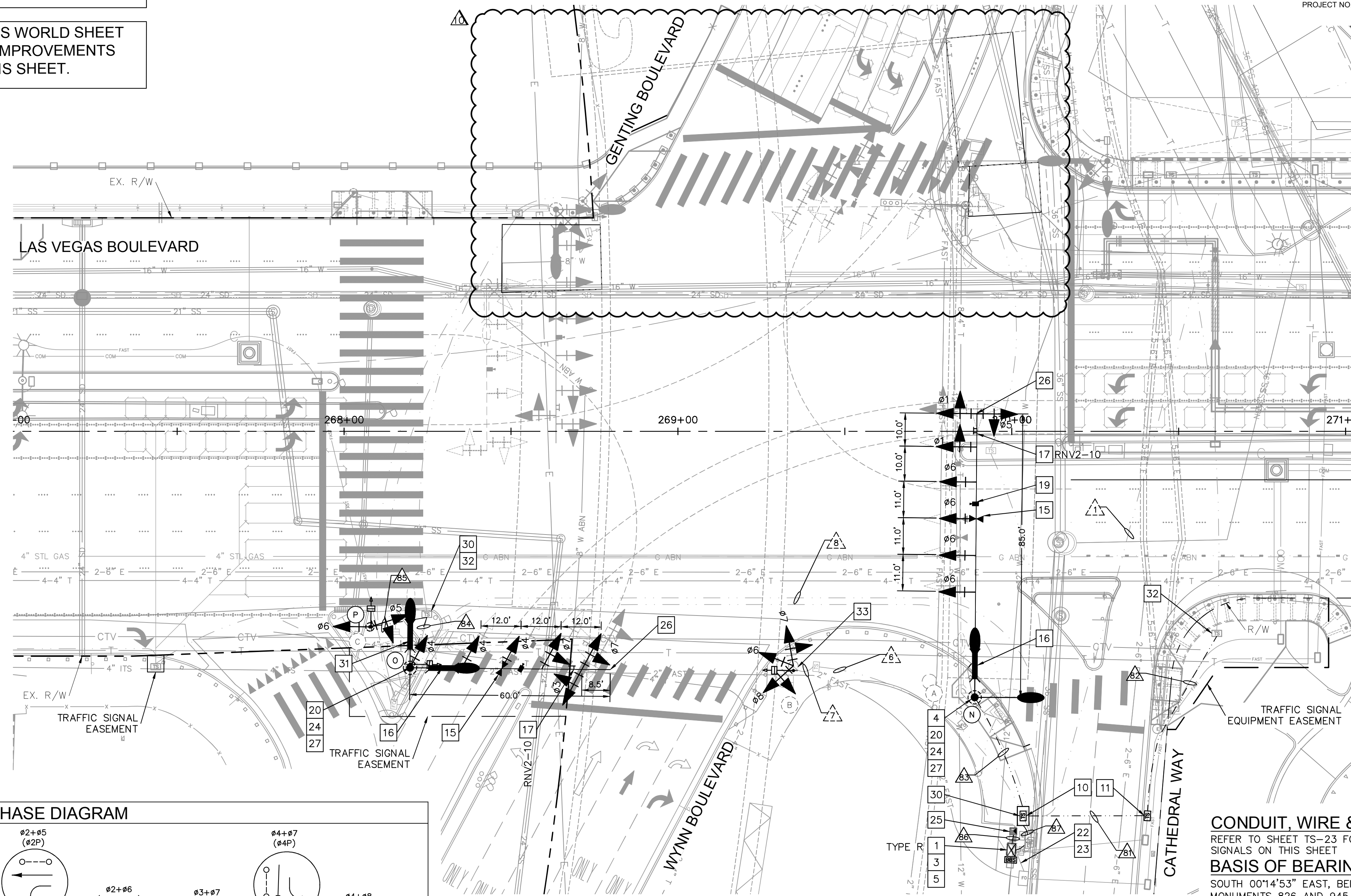
APPROVED FOR CONSTRUCTION
 ORIGINALLY SIGNED BY S. KAMOJJALA
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077
 FIRST APPROVED DATE:



KEY MAP
NTS

CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL SIGNAL CONTROLLER AND CABINET IN ACCORDANCE WITH CLARK COUNTY AREA UNIFORM STANDARD SPECIFICATIONS AND CCAUSD NO. 803.
- 3 FURNISH AND INSTALL GPS OPTICOM EQUIPMENT IN TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS.
- 4 FURNISH AND INSTALL GPS OPTICOM RECEIVER ON TRAFFIC SIGNAL POLE. SEE SPECIAL PROVISIONS.
- 5 FURNISH AND INSTALL BATTERY BACKUP SYSTEM MOUNT ON TRAFFIC SIGNAL CABINET. SEE SPECIAL PROVISIONS. CABINET MOUNTING ORIENTATION AS SHOWN ON PLANS.
- 10 FURNISH AND INSTALL TYPE 100 TRAFFIC SIGNAL PULL BOX PER DETAIL ON SHEET TS-18.
- 11 FURNISH AND INSTALL DOUBLE STACKED No. 7 TRAFFIC SIGNAL PULL BOX WITH POLYMER REINFORCED NON-CONDUCTIVE COVER PER CCAUSD No. 707.
- 15 FURNISH AND INSTALL OPTICOM DETECTOR (INCLUDING ALL REQUIRED WIRING AND HARDWARE) PER TRAFFIC SIGNAL NOTES (SHEET TS-02).
- 16 FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
- 17 FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL MAST ARM (TYPE AS NOTED ON PLANS) PER CCAUSD No. 818.2. SEE SIGN SCHEDULE FOR SIGN DESIGNATION AND SIZE.
- 19 FURNISH AND INSTALL VIDEO DETECTION CAMERA WITH 6 FT EXTENSION ON MAST ARM. SEE SPECIFICATIONS.
- 20 FURNISH AND INSTALL RED LIGHT RUNNING INDICATION PER CCAUSD NO. 811.S1.
- 22 INTERCEPT EXISTING FAST CONDUIT AND REDIRECT TO NEW CONTROLLER CABINET.
- 23 SEE COMMUNICATION PLANS FOR CDCA CONNECTION TO TRAFFIC SIGNAL.
- 24 FURNISH AND INSTALL VANDALISM PLATE ON POLE PER DETAIL (SHEET TS-19).
- 25 FURNISH AND INSTALL 200 AMP 120/240 VAC SERVICE PEDESTAL ON EXISTING CONCRETE FOUNDATION PER CCAUSD NO. 730.
- 26 FURNISH AND INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM. SEE SPECIFICATIONS.
- 27 FURNISH AND INSTALL BALL FINIAL ON TOP OF SIGNAL POLE. SEE SPECIAL PROVISIONS.
- 30 INTERCEPT EXISTING TRAFFIC SIGNAL CONDUIT AND REDIRECT INTO NEW PULL BOX.
- 31 FURNISH AND INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN ON ALTERNATIVE MOUNTING PER CCAUSD NO. 815 AND 818. SEE SIGN FORMATS AND SPECIAL PROVISIONS.
- 32 INTERFACE WITH RESORTS WORLD SHEET TS-11 FOR CONTINUATION OF TS IMPROVEMENTS AT THIS INTERSECTION.
- 33 REUSE EXISTING POLE AND FOUNDATION. MOUNT NEW EQUIPMENT ONTO EXISTING POLE. REPAINT POLE. SEE SPECIAL PROVISIONS.



SIGN SCHEDULE

RVN2-10 36"X30"		

CONDUIT, WIRE & POLE SCHEDULE

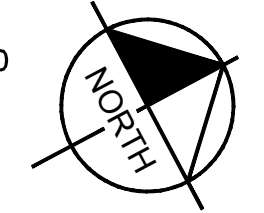
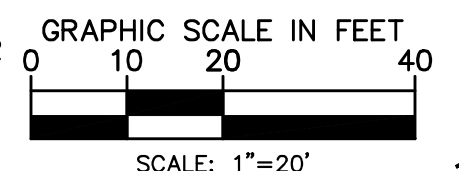
REFER TO SHEET TS-23 FOR CONDUIT AND WIRE AND TRAFFIC SIGNAL POLE SCHEDULE TABLES FOR SIGNALS ON THIS SHEET

BASIS OF BEARING

SOUTH 00°14'53" EAST, BEING THE BEARING BETWEEN CLARK COUNTY GEODETIC CONTROL MONUMENTS 826 AND 945 AS SHOWN ON "RECORD OF SURVEY FOR LAS VEGAS BOULEVARD - RUSSELL ROAD TO SAHARA" IN FILE 88, PAGE 53 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 4C11 28NW66
 A RIVET AND SQUARE ALUMINUM PLATE IN THE TOP OF CURB, NORTHEAST CORNER OF RENO AVENUE AND LAS VEGAS BOULEVARD NEAR THE PT OF LAS VEGAS BOULEVARD.
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 CLARK COUNTY VERTICAL CONTROL v.2003
 BENCHMARK No. 5C11 9NE6
 A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB, NORTHWEST CORNER OF LAS VEGAS BOULEVARD AND SOUTH ENTRANCE TO HILTON GRAND VACATION CLUB, NEAR THE PC OF LAS VEGAS BOULEVARD +/- 1600' SOUTH OF SAHARA.
 NAVD 88 ELEVATION = 2051.74 FEET (625.372 METERS)
 NORTH AMERICAN VERTICAL DATUM OF 1988



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

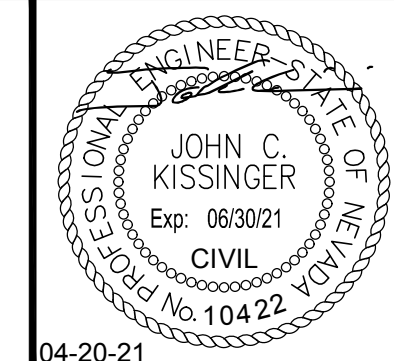
UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9193

Call Before you UnderGround
 1-702-432-5300
 PREVENT AND AVOID SERVICE OF INTERRUPTIONS

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



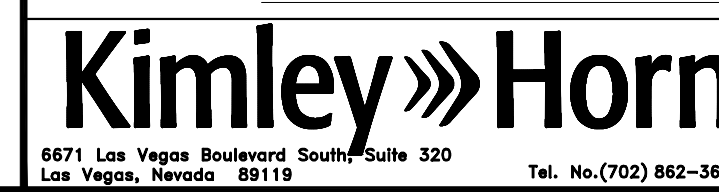
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 RESORTS WORLD DRIVE (EAST SIDE) TRAFFIC SIGNAL PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 04-20-2021

SCALE
 HORIZ: 1" = 20'
 VERT: N/A
 FIELD BOOK: NONE

SHEET No
TS-22
 SHEET 207 OF 345
 L-2210



User: Daniel Wolf
 Path: K:\LAV_Public\Trans\092061-CC\021-LVB_Roadway-Signal\CAD\Plansheets\092061021-TS - Cathedral_2.dwg /
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

BID No.: 605203-19

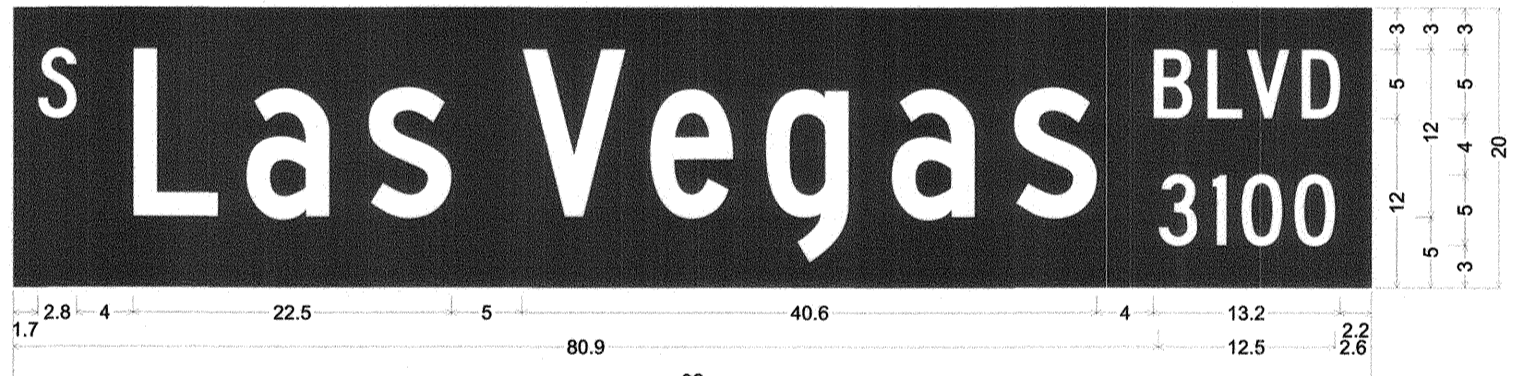
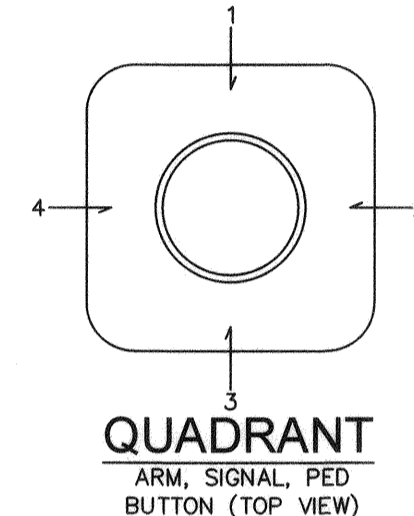
POLE SCHEDULE

POLE	LOCATION STATION & OFFSET (LAS VEGAS BOULEVARD) TOP OF FOUNDATION ELEV.	POLE				SIGNALS				PEDESTRIAN		RED LIGHT INDICATORS			EMERGENCY VEHICLE DETECTOR	REMARKS		
		TYPE	FOUND	MAST ARM*		LUMINAIRE**		VEHICLE ***		PEDESTRIAN		ARROW	QUAD	TYPE			PHASE	QUAD
				HEIGHT	QUAD	LENGTH	QUAD	LENGTH	TYPE	QUAD	TYPE							
(A)	STA: 269+84.80 (EX) OFF: 78.43' RT (EX)	(EX) (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2L (EX) (3) M-2 (EX)	MA (EX) MA (EX)	-	-	-	-	-	-	-	REMOVE AND SALVAGE
(B)	STA: 269+34.59 (EX) OFF: 70.27' RT (EX)	1-A(EX) 10'(EX)	C (EX)	-	-	-	-	(1) A-5T (NEW)	TOP (NEW)	W-0T (NEW)	2	LT	3	-	-	-	-	EX POLE TO REMAIN NEW EQUIPMENT
(C)	STA: 268+20.26 (EX) OFF: 64.17' RT (EX)	(EX) (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2L (EX) (2) M-2 (EX) (1) B-2T (EX)	MA (EX) MA (EX) 3 (EX)	W-3T (EX)	(EX)	(EX)	(EX)	-	-	-	REMOVE AND SALVAGE	
(H)	STA: 269+88.93 OFF: 79.71' RT	XX-B 40'	M	1	85'	1	2	(3) M-2L (4) M-2	MA MA	-	-	-	-	RED BLUE	ø6 ø7	2	TWO WAY	40 41 43 FROM (A)
(D)	STA: 268+19.70 OFF: 70.86' RT	XX-B 30'	M	2	60'	1	2	(3) M-2L (2) M-2 (1) B-1T	MA MA 3	W-0T	1	LT	1	RED BLUE	ø4 ø5	4	TWO WAY	43 FROM (C)
(P)	STA: 268+07.75 OFF: 58.61' RT	1-A 10'	C	-	-	-	-	(1) A-4T	TOP	W-0T	2	RT	2	-	-	-	-	

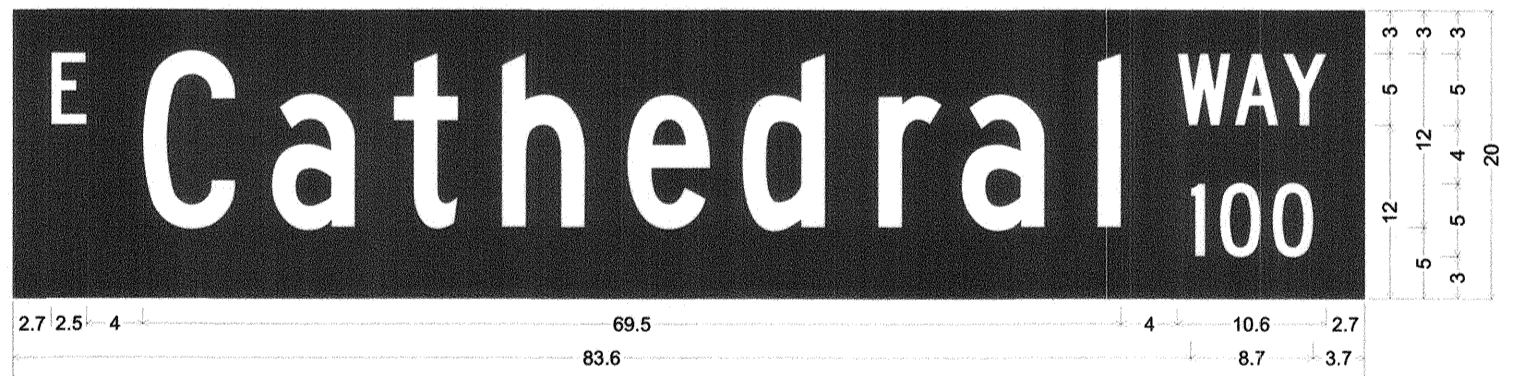
* CONTRACTOR SHALL PROVIDE SIGNAL MAST ARM AT LENGTH SPECIFIED IN POLE SCHEDULE. CONTRACTOR SHALL PROVIDE WEATHER TYPE CAP AT THE END OF THE MAST ARM AND SHALL BE APPROVED BY THE ENGINEER. TENONS TO BE FIELD DRILLED PER SPACING SPECIFIED ON LAYOUT SHEET AND SHALL BE PRIMED AND PAINTED.
 ** PROPOSED LUMINAIRES SHALL CONFORM W/ CURRENT CLARK COUNTY STANDARDS & SPECIFICATIONS. REFER TO TYPE B FIXTURE ON SHEET EL-10.
 *** ALL TRAFFIC SIGNAL HEAD BACKPLATES SHALL BE INSTALLED WITH A YELLOW RETROREFLECTIVE STRIP. SEE SPECIAL PROVISIONS.

RELOCATION NOTES

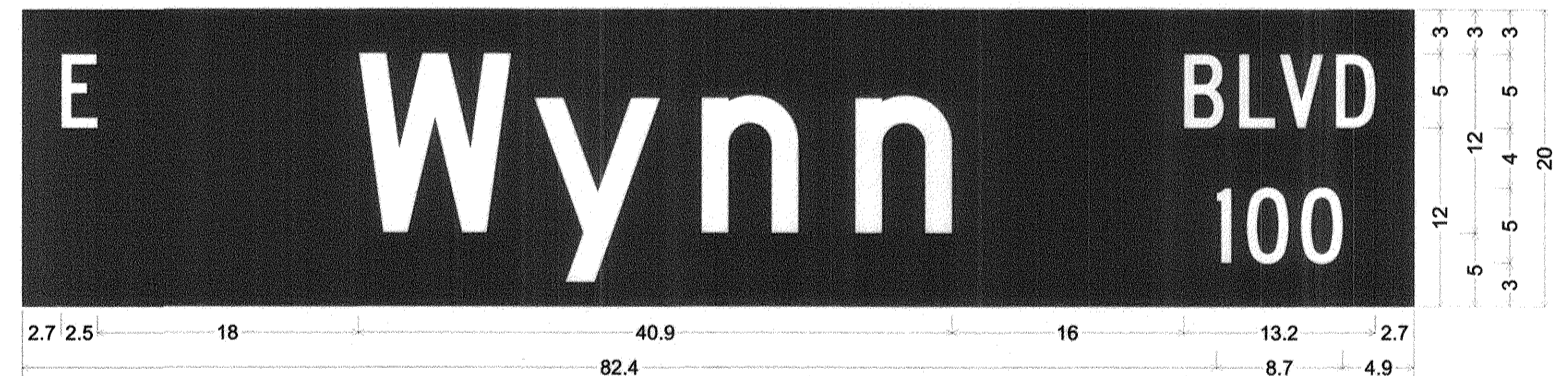
- 40 RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
- 41 RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- 43 RELOCATE EXISTING RED LIGHT RUNNING INDICATOR FROM EXISTING POLE TO NEW POLE ON THIS CORNER PER CCAUSD NO. 811.S1.



0.0" Radius, 0.0" Border, None on, Green;
 "S" White C; "Las" White C; "Vegas" White C; "BLVD" White C; "3100" White C;



0.0" Radius, 0.0" Border, None on, Green;
 "E" White, C; "Cathedral" White, C; "WAY" White, C; "100" White, C;



0.0" Radius, 0.0" Border, None on, Green;
 "E" White, C; "Wynn" White, D; "BLVD" White, C; "100" White, C;

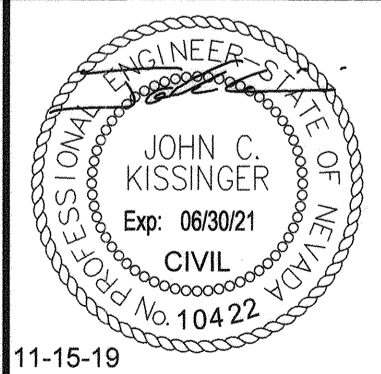
POLE	STREET NAME SIGNS				REMARKS
NO.	DIRECTION	STREET NAME	SUFFIX	BLOCK NO.	
(A)	E	CATHEDRAL	WAY	100	REMOVE AND SALVAGE SIGN
(C)	S	LAS VEGAS	BLVD	3100	REMOVE AND SALVAGE SIGNS
(D)	E	CATHEDRAL	WAY	100	FURNISH AND INSTALL SIGN
(O)	S	LAS VEGAS	BLVD	3100	FURNISH AND INSTALL SIGNS

User: fernando.roaz
 Path: K:\New_publications\092019\021-10_roadway-signal\CAD\plansheets\092019\021-TS - Cathedral 2.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
 RESORTS WORLD TRAFFIC SIGNAL SCHEDULE
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

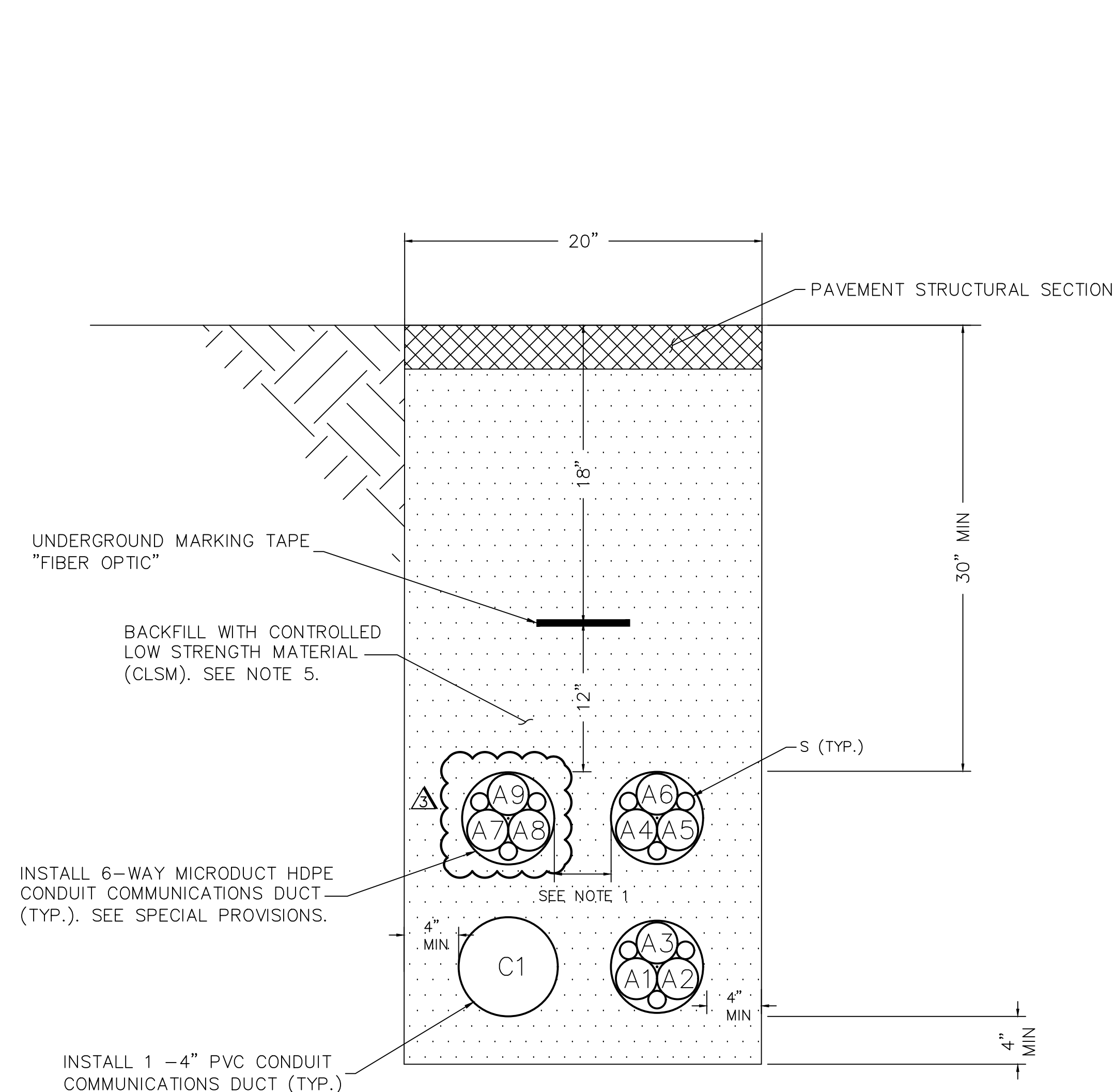


DESIGNED BY: ZMH
 DRAWN BY: MCD
 CHECKED BY: JCK
 DATE: 11-15-2019
Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

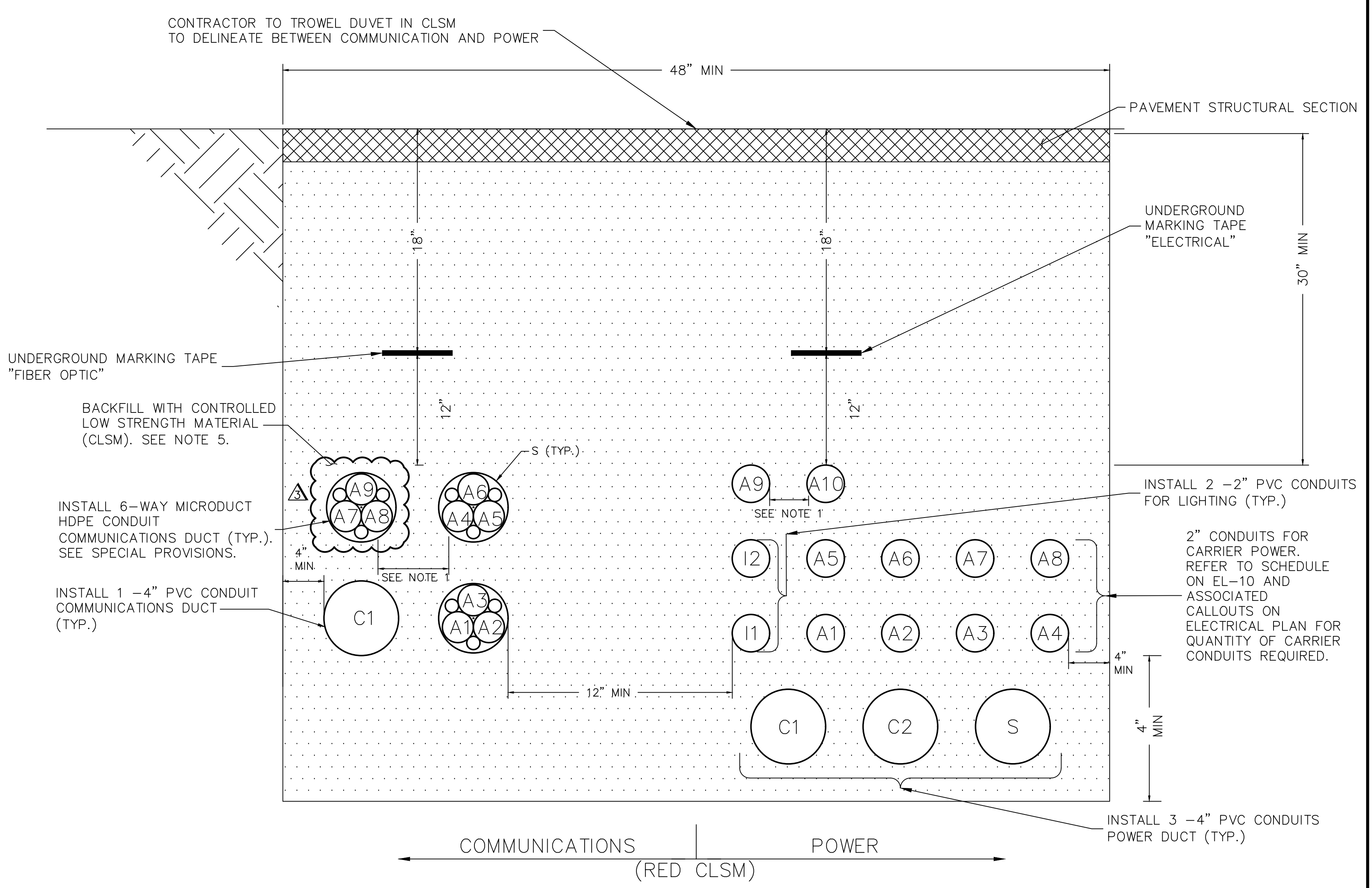
SCALE	SHEET No
HORIZ: N/A	TS-23
VERT: N/A	SHEET 208 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

WIRE & CABLE	FROM	TO	CONDUIT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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DETAIL A
COMMUNICATIONS DUCT
OPEN TRENCH INSTALLATION
N.T.S

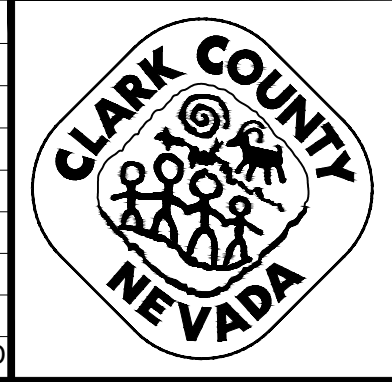


DETAIL B
COMMUNICATIONS & POWER DUCT
OPEN TRENCH INSTALLATION
N.T.S

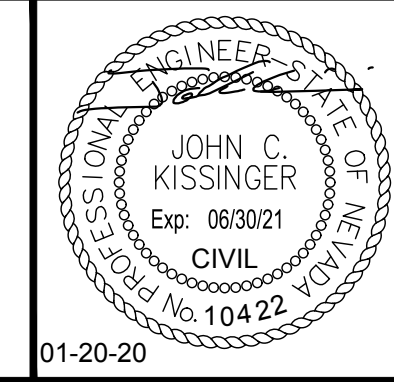
- OPEN TRENCH DETAIL NOTES:
1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.
 2. SEE ELECTRICAL PLANS ON SHEET EL01-EL11 FOR THE INSTALLATION OF POWER DUCT IN SAME TRENCH.
 3. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AND REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 4. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
 5. CONTROLLED LOW STRENGTH MATERIALS (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.

P = PROVIDER, A = CARRIER
C = COUNTY, I = LIGHTING, S = SPARE

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
3	REVISED PER REVISION NO. 3	01/20/2020
APPROVED		



**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
OPEN TRENCH DETAIL (1 OF 4)
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
DRAWN BY: GDG
CHECKED BY: JCK
DATE: 01-20-2020

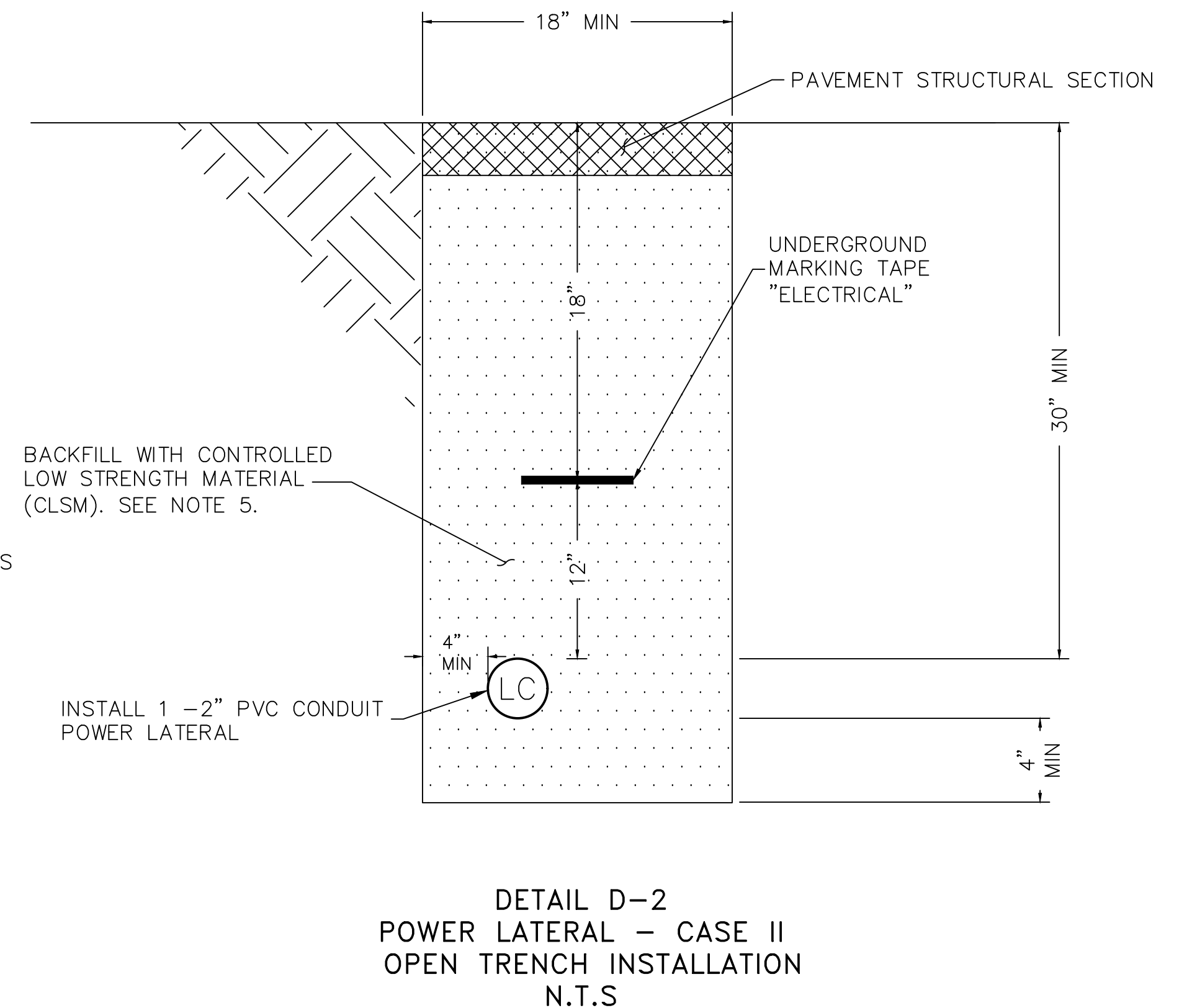
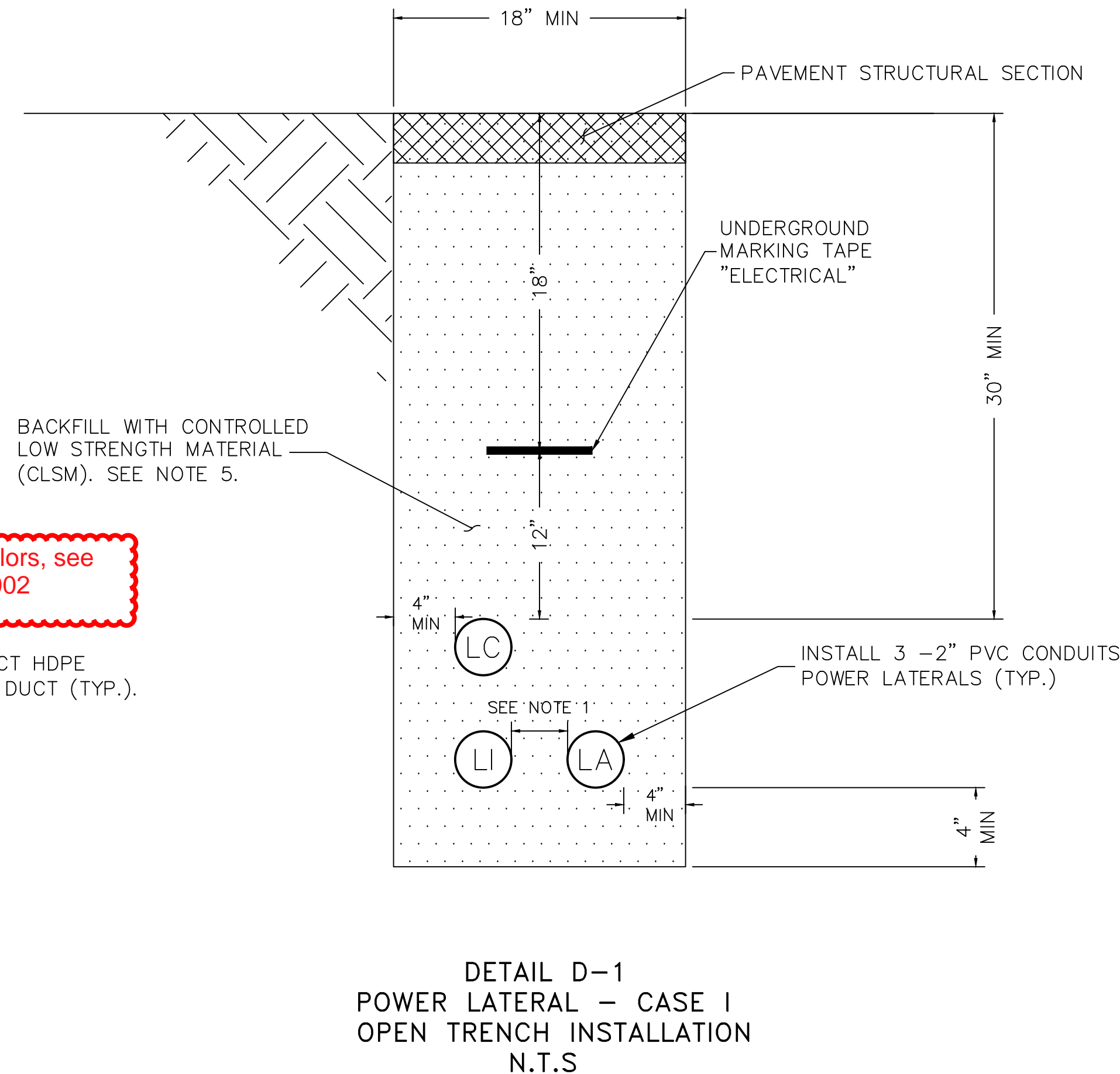
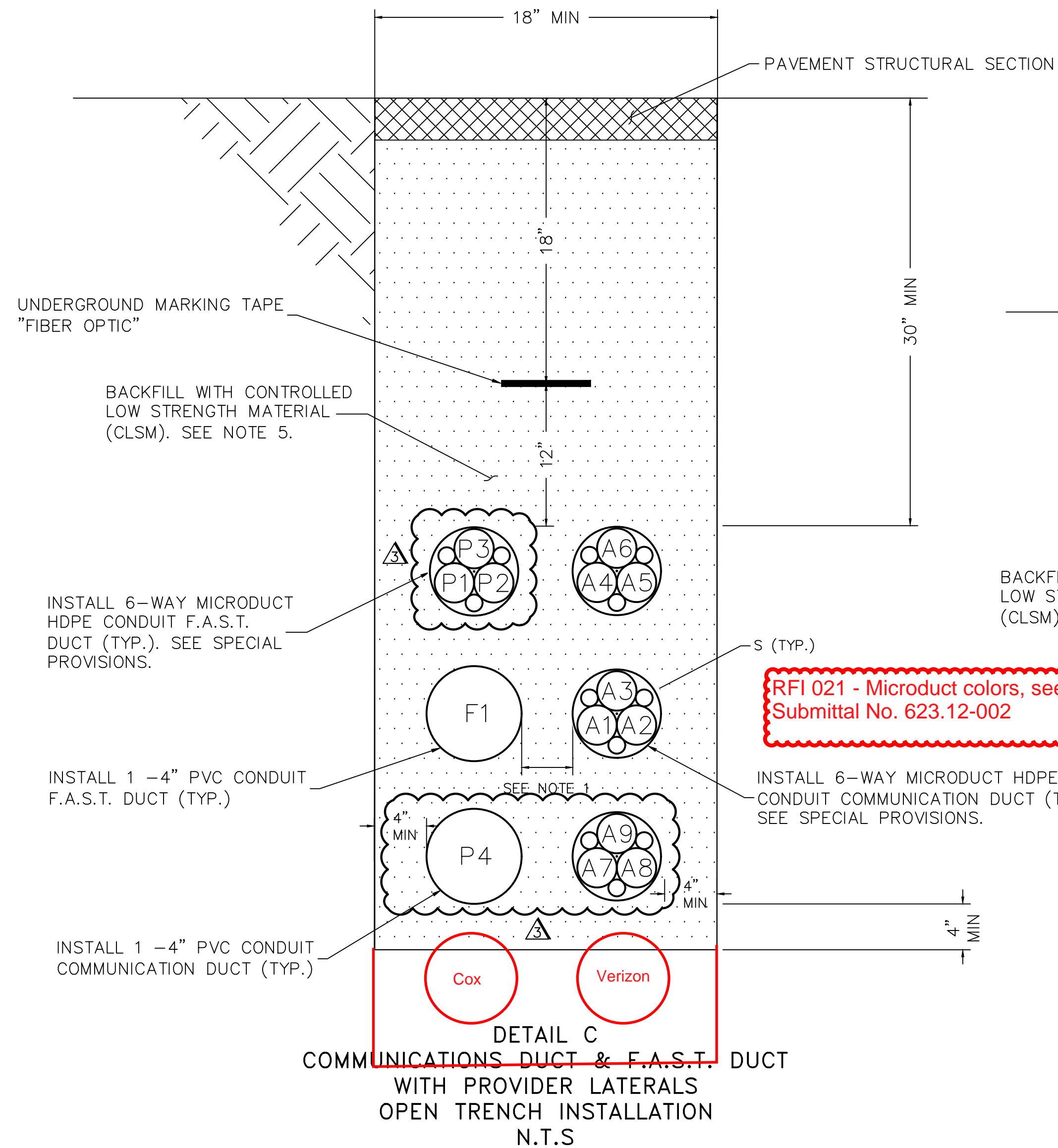
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

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

SHEET No
COM-02
SHEET 211 OF 345
L-2210

User: fernando.roez Path: K:\AV_Public\Trans\092061_CC_021-LVB_Roadway-Signal\CAD\Plansheets\092061021-COM_DTL01.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.

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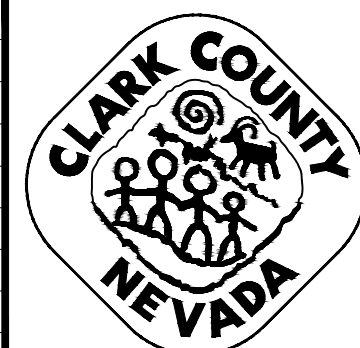
OPEN TRENCH DETAIL NOTES:

1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.
2. SEE ELECTRICAL PLANS ON SHEET EL01-EL11 FOR THE INSTALLATION OF POWER DUCT IN SAME TRENCH.
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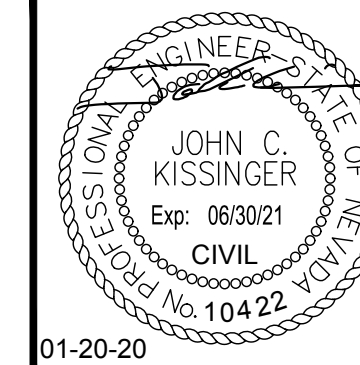
P = PROVIDER, A = CARRIER, LI = LIGHTING LATERAL, LC = COUNTY LATERAL

C = COUNTY, F = FAST, S = SPARE, LA = CARRIER LATERAL

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 3	01/20/2020
APPROVED		



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 OPEN TRENCH DETAIL (2 OF 4)
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



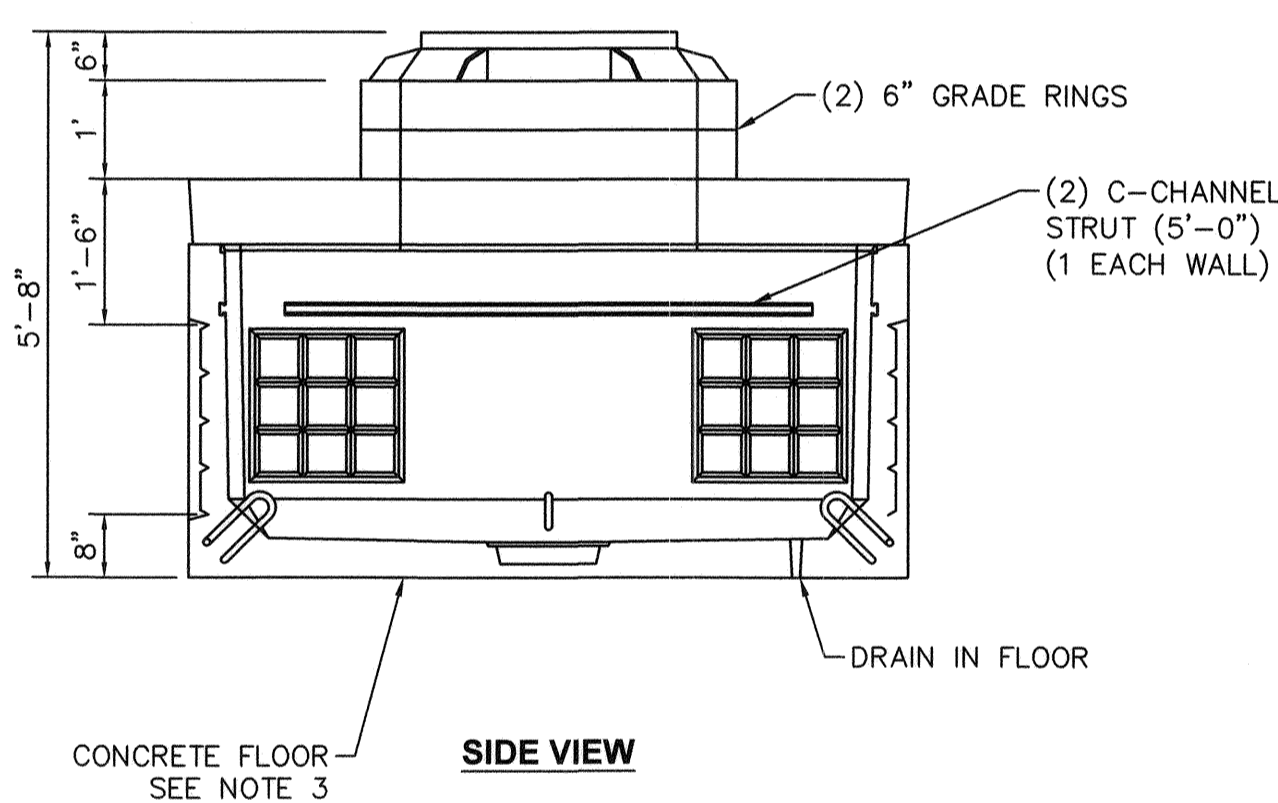
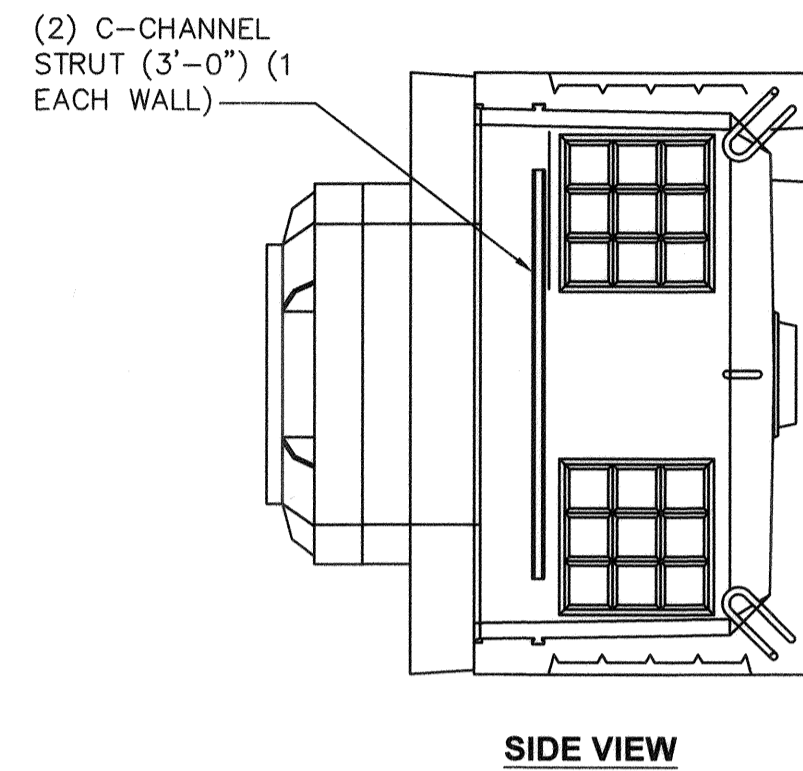
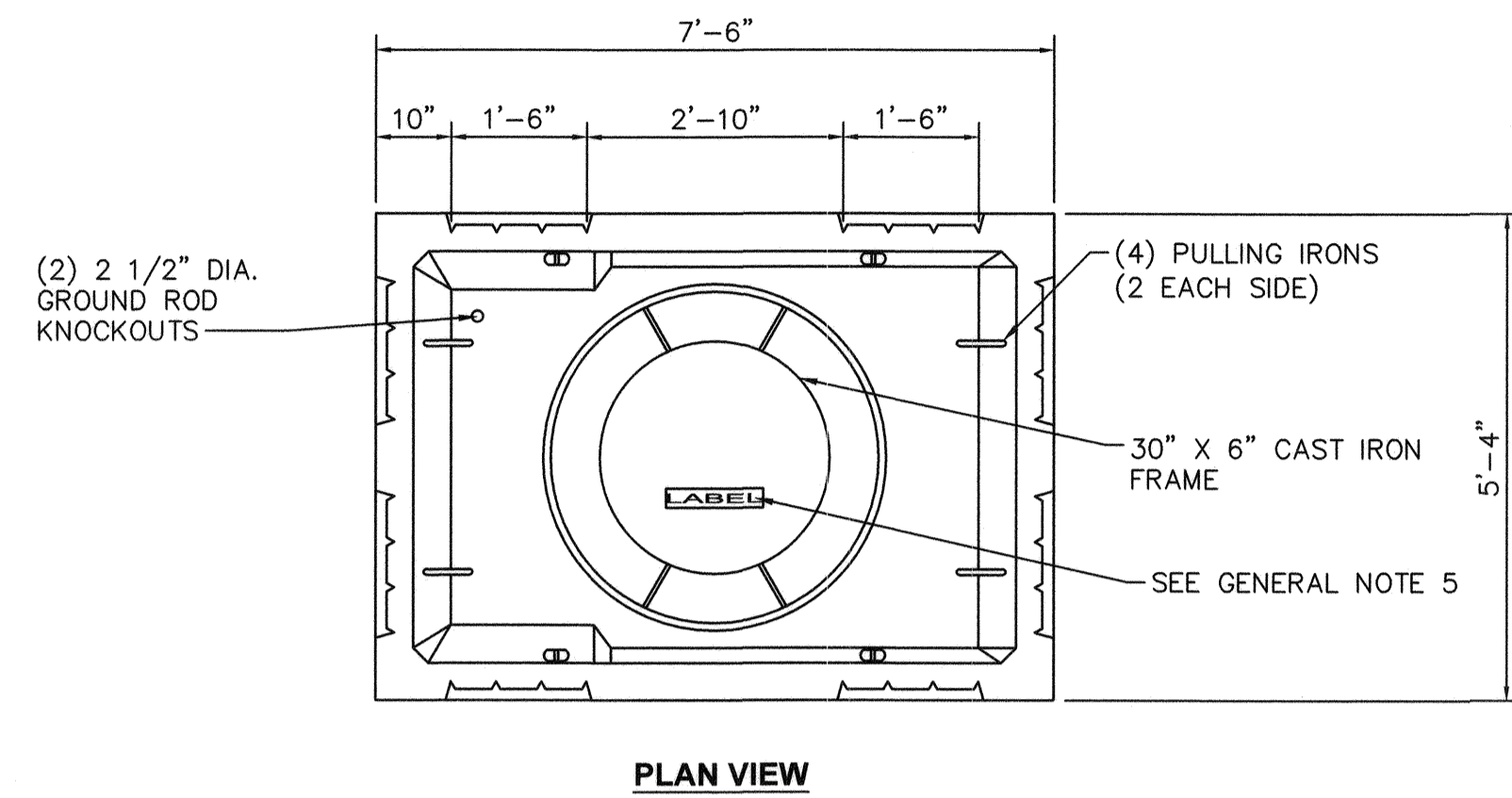
DESIGNED BY: GDG
 DRAWN BY: GDG
 CHECKED BY: JCK
 DATE: 01-20-2020
Kimley»Horn
6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

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

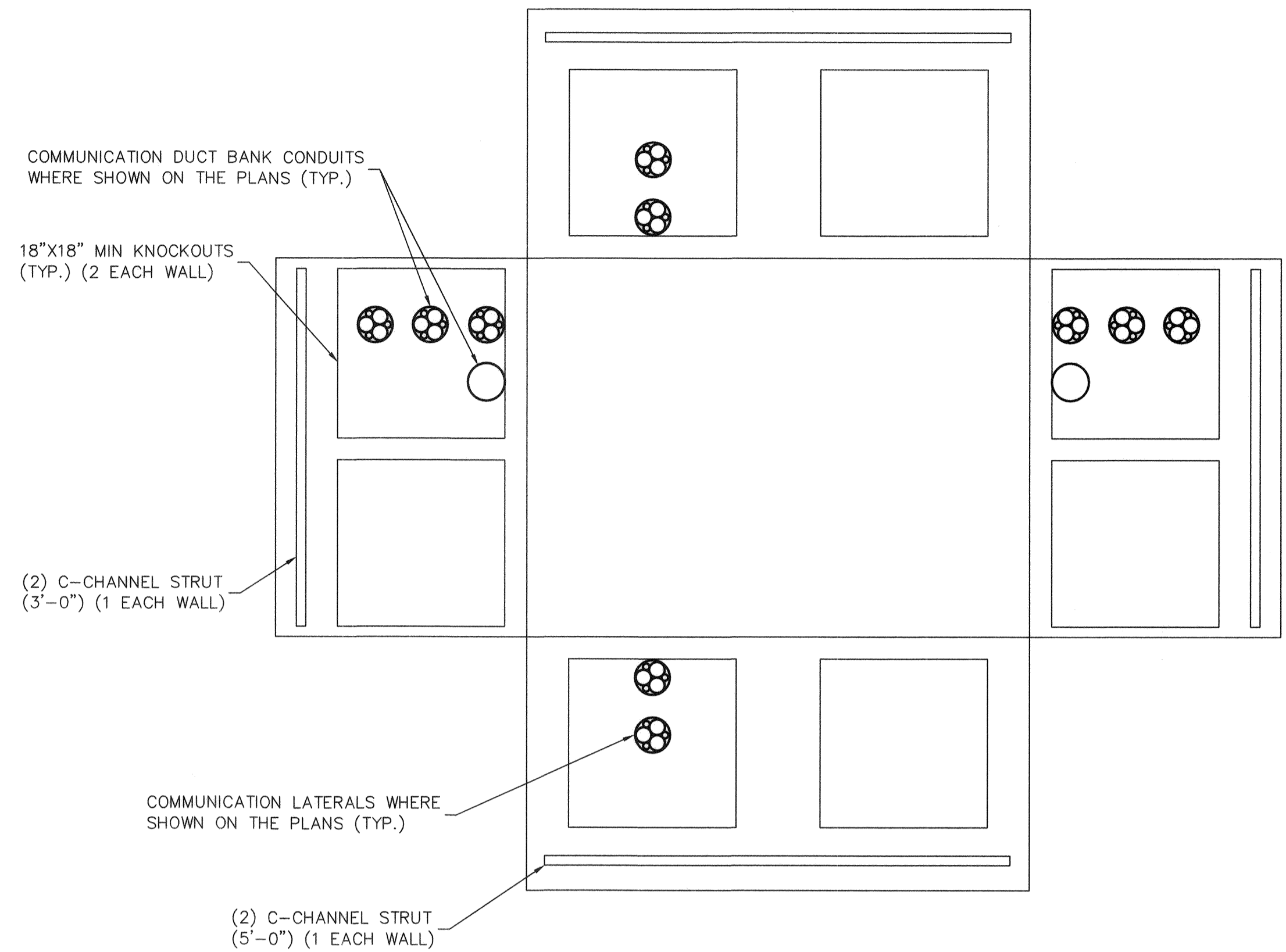
SHEET No
COM-03
 SHEET 212 OF 345
 L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



DETAIL K
4' X 6' COMMUNICATION MANHOLE
N.T.S



DETAIL K-1
COMMUNICATION DUCT BANK & LATERALS
MANHOLE DETAIL
N.T.S

RFI006 - 11/21/19 Response
Engineer has no objection to
including the floors in the precast
vaults, allowing for required
sump/drain installations, rather
than pouring the floors separately.

GENERAL NOTES

- ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE.
- CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL
- CONTRACTOR SHALL POUR THE CONCRETE FLOOR, WITH DRAIN, AFTER THE VAULT IS INSTALLED
- THE CONTRACTOR SHALL GROUT THE KNOCKOUT AREAS, AROUND THE CONDUIT, WITH A SMOOTH CONCRETE FINISH AFTER THE VAULT IS INSTALLED
- MANHOLE LID LABEL SHALL CORRESPOND TO THE MANHOLE TYPE CALLED OUT ON PLANS THE LABELS SHOULD BE AS FOLLOWS:
 - "COUNTY COMM" - COMMUNICATION MANHOLES DESIGNATED WITH A "C" ON THE PLANS
- CONTRACTOR SHALL INSTALL 18" CONCRETE COLLAR AROUND MANHOLE LID.
- ALL HDPE MICRODUCTS SHALL EXTEND A MINIMUM OF 12 INCHES INTO VAULTS FOR COUPLING TOGETHER WITH OTHER DUCTS

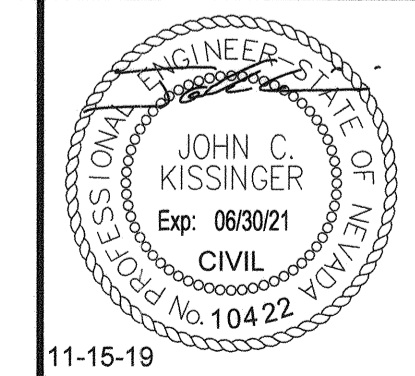
STRUCTURAL NOTES

- CONCRETE: 28 DAY COMPRESSIVE STRENGTH $f_c = 5,000$ PSI
- REBAR: ASTM A-615 GRADE 60
- MESH: ASTM A-1064 GRADE 65
- DESIGN: ACI 316-11 BUILDING CODE
ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
- LOADS: HS20-44 W/30% IMPACT PER AASHTO
80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 6'-0" DEPTH
SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
- SOIL COVER: 0' TO 5' (MAX.)
- WATER TABLE: 5'-0" BELOW GRADE

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
4' X 6' COMMUNICATION MANHOLE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
DRAWN BY: GDG
CHECKED BY: JCK
DATE: 11-15-2019

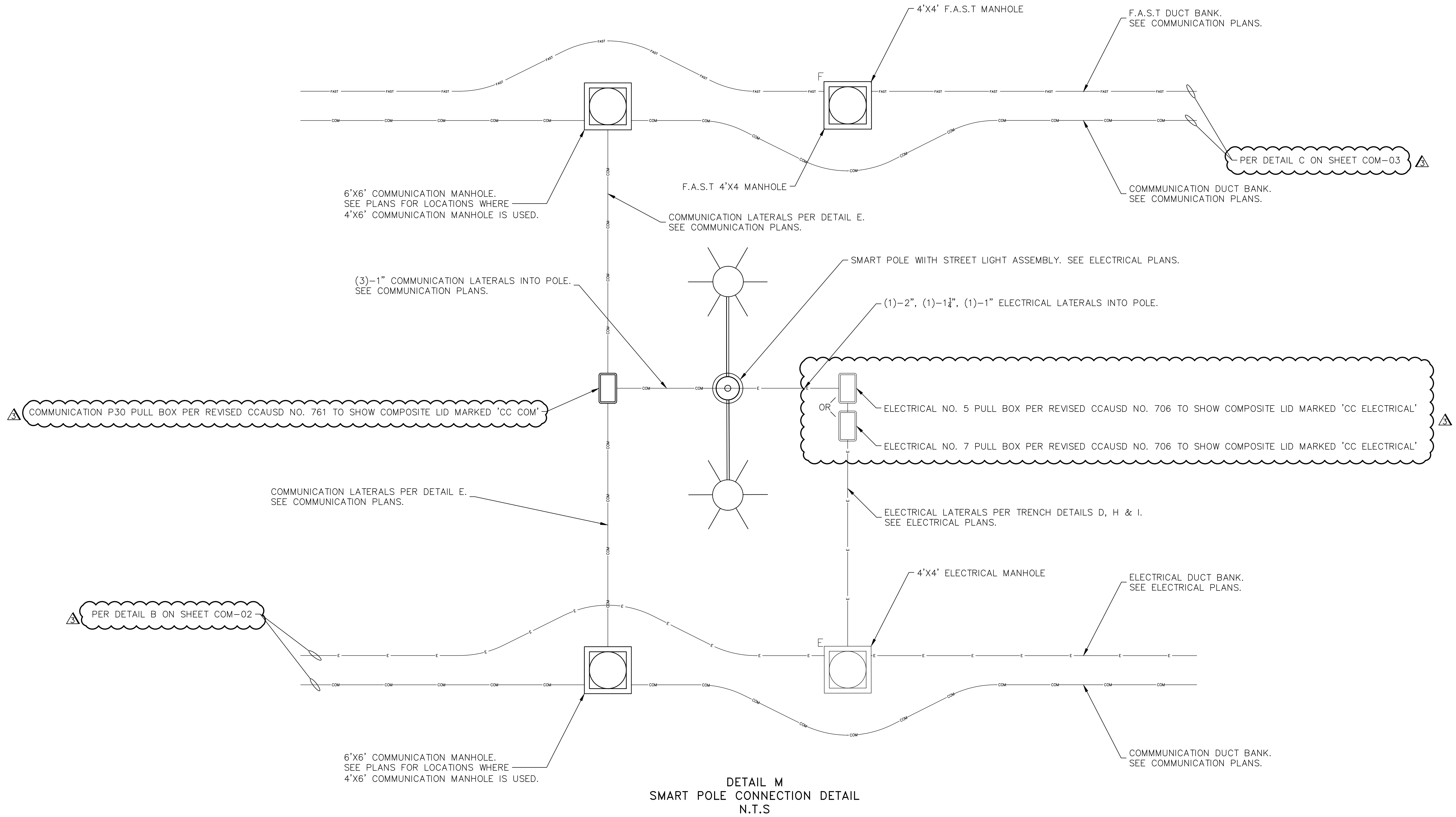
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Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: N/A	COM-07
VERT: N/A	SHEET 216 OF 345
FIELD BOOK: NONE	L-2210

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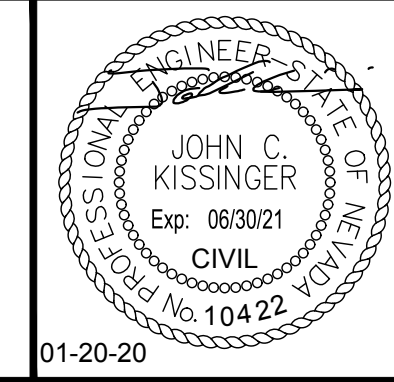


DETAIL M
SMART POLE CONNECTION DETAIL
N.T.S

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
3	REVISED PER REVISION NO. 3	01/20/2020
APPROVED		



LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 SMART POLE CONNECTION DETAIL
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
 DRAWN BY: GDG
 CHECKED BY: JCK
 DATE: 01-20-2020
Kimley»Horn
6671 Las Vegas Boulevard South Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

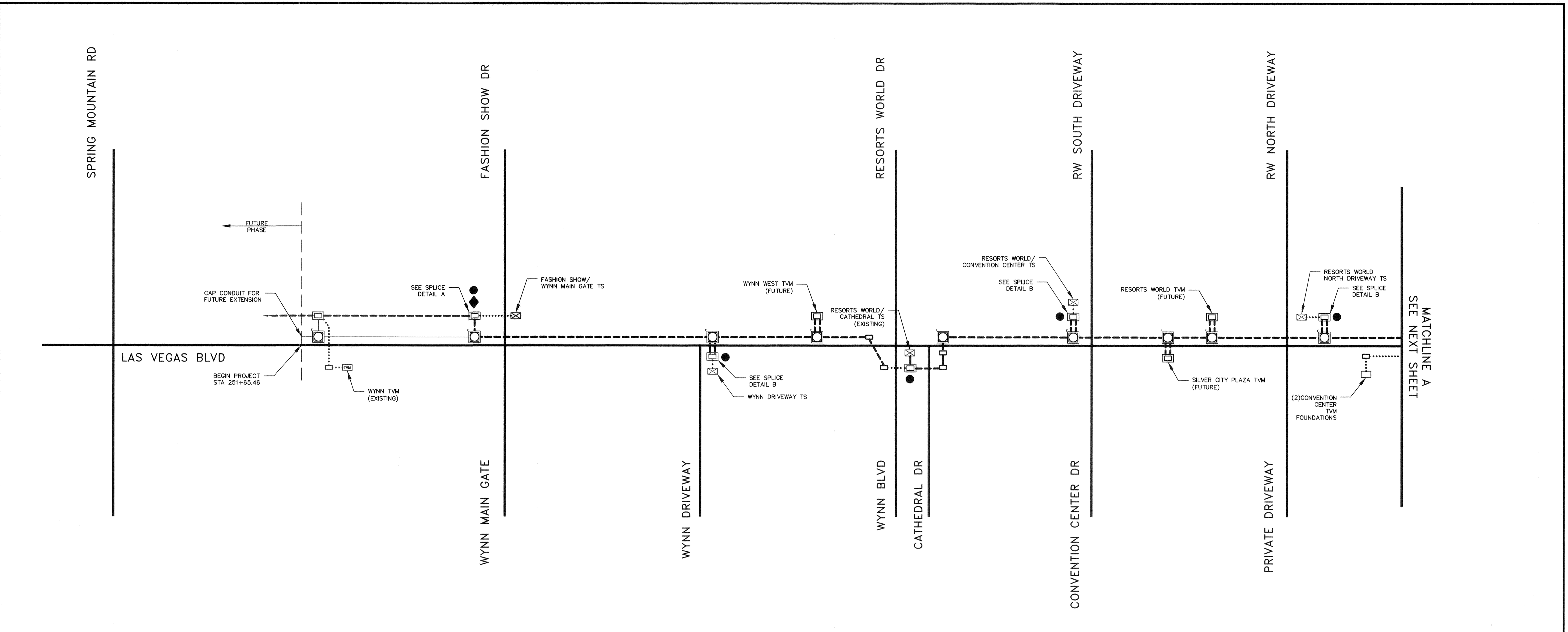
SCALE
 HORIZ: N/A
 VERT: N/A
 FIELD BOOK NONE

SHEET No
COM-10
 SHEET 219 OF 345
 L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

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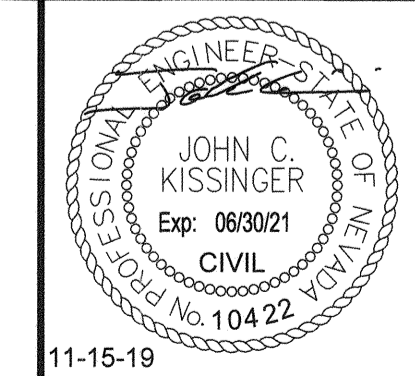
LEGEND

- NEW F.A.S.T. CONDUIT (EMPTY FOR FUTURE USE)
- NEW F.A.S.T. 144 SMFO
- EX. F.A.S.T. 96 SMFO
- NEW F.A.S.T. 12 CDCA
- EX. F.A.S.T. 12 CDCA
- NEW F.A.S.T. MANHOLE
- NEW TYPE 200 SPLICE VAULT
- EX. TYPE 200 SPLICE VAULT
- NEW P30 PULL BOX
- EX. P30 PULL BOX
- ⊠ NEW TRAFFIC SIGNAL CABINET
- ⊠ EX. TRAFFIC SIGNAL CABINET
- ⊠ EX. TICKET VENDING MACHINE
- NEW TICKET VENDING MACHINE FOUNDATION
- ◆ FULL CABLE SPLICE (NEW 144 SMFO TO EX. 96 SMFO)
- SPLICE TO TRAFFIC SIGNAL CIRCUIT (SEE SPLICE DETAILS)
- SPLICE TO TICKET VENDING MACHINE CIRCUIT (SEE SPLICE DETAILS)

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
 F.A.S.T. FIBER CONNECTION SCHEMATIC (1 OF 2)
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY:	GDG
DRAWN BY:	GDG
CHECKED BY:	JCK
DATE:	11-15-2019

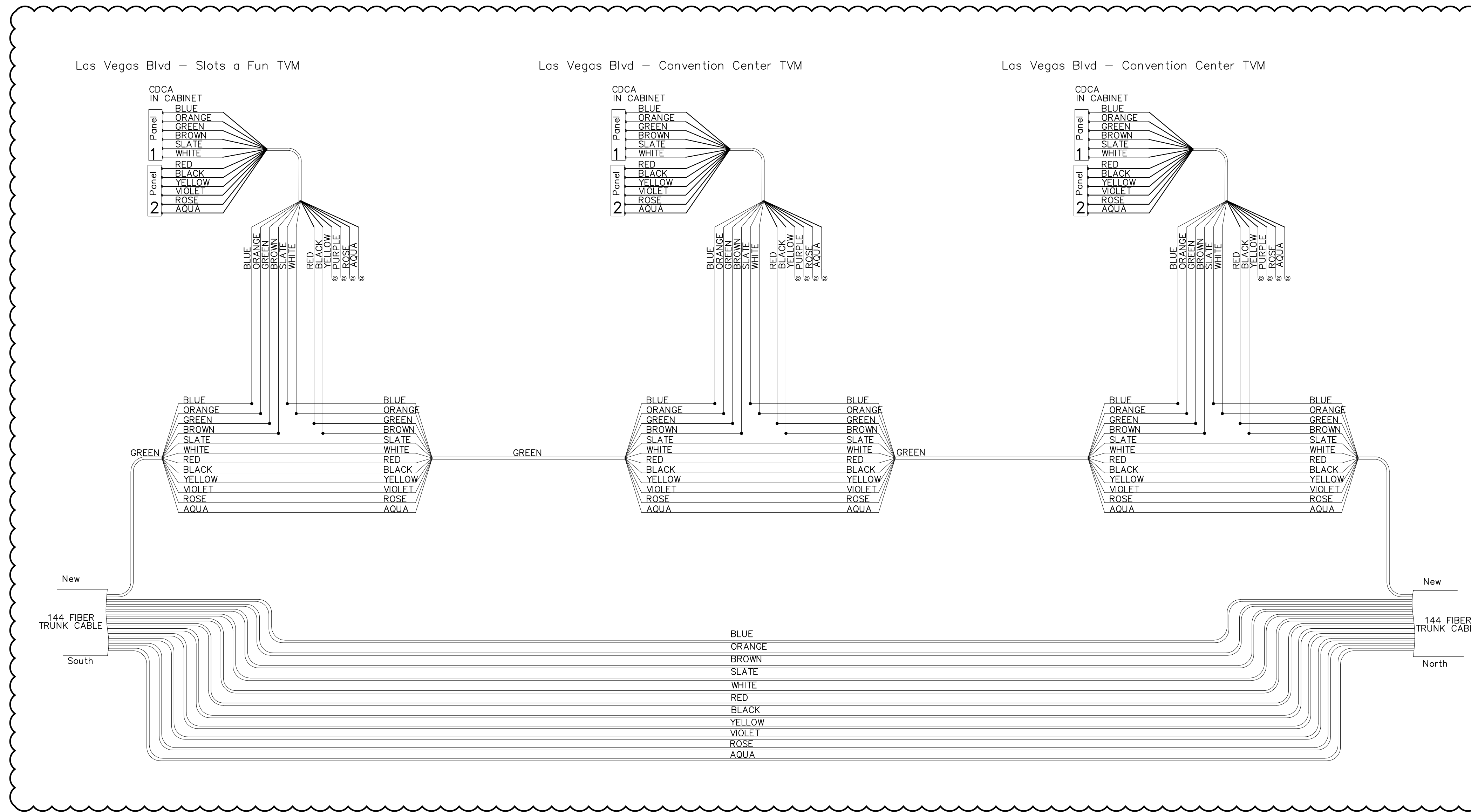
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HORIZ:	N/A
VERT:	N/A
FIELD BOOK:	NONE

SHEET No	COM-12
SHEET 221 OF 345	
L-2210	

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

User: fernandoraez
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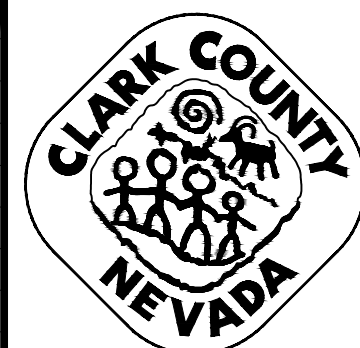


Splice = ●

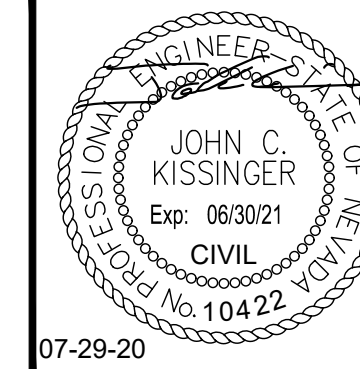
Las Vegas Blvd - Slots a Fun TVM
 Las Vegas Blvd - Convention Center TVM

SPLICE DETAIL C

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



**LAS VEGAS BOULEVARD
 ROADWAY IMPROVEMENTS**
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 F.A.S.T. SPLICE DETAILS (2 OF 3)
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
 DRAWN BY: GDG
 CHECKED BY: JCK
 DATE: 07-29-2020

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

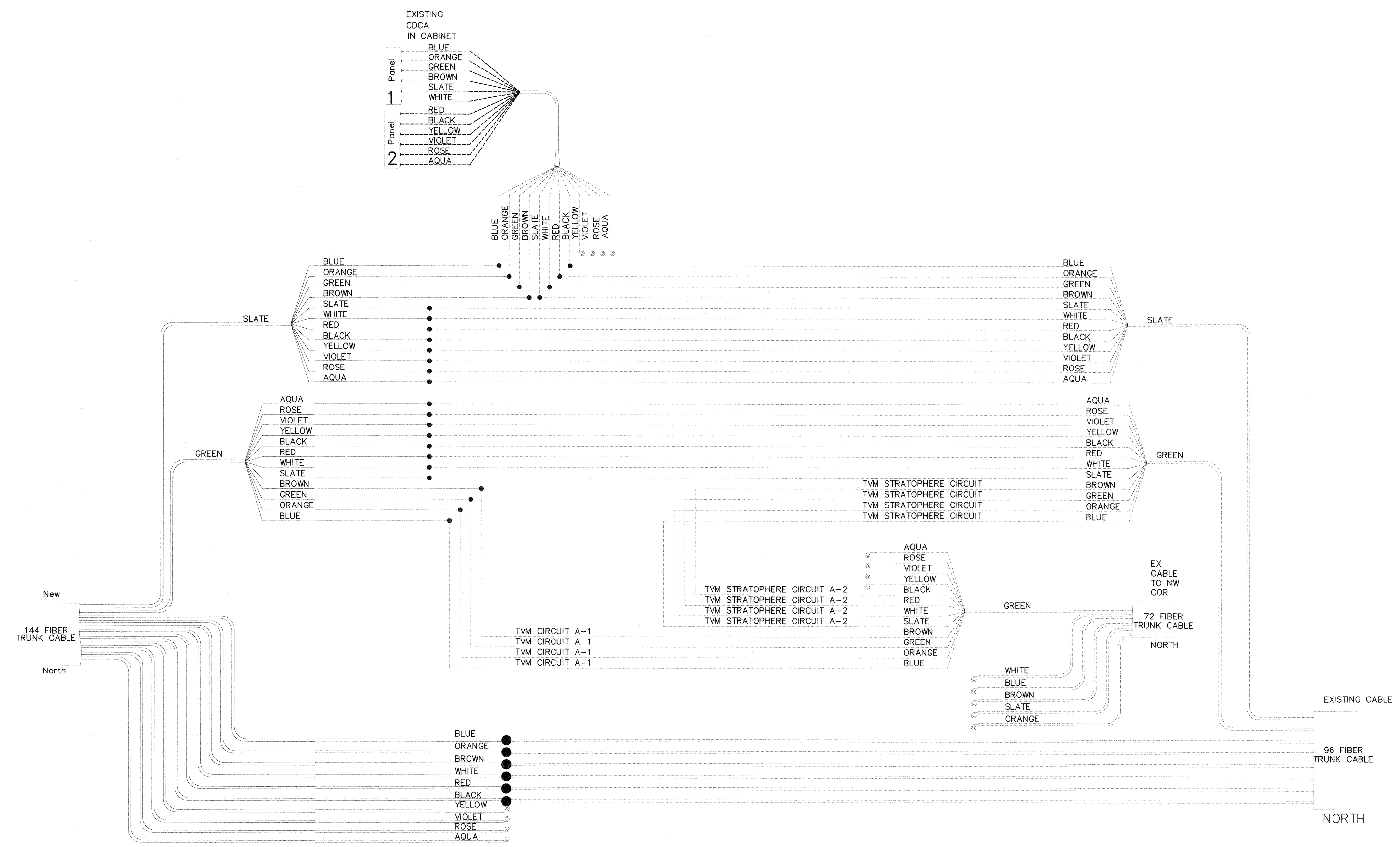
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 VERT: N/A
 FIELD BOOK NONE

SHEET No
COM-15
 SHEET 224 OF 345
 L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

BID No.: 605203-19

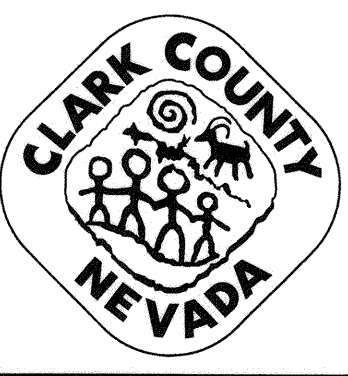


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 BUFFER TUBE SPLICE = ●

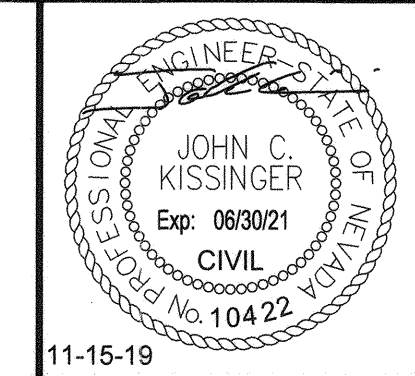
SPLICE DETAIL D

User: fernando.cruz
 Path: K:\nv_public\trns\092061021-14b_roadway-signal\CAD\plansheets\092061021-COM_DTL01.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
 F.A.S.T. SPLICE DETAILS (3 OF 3)
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



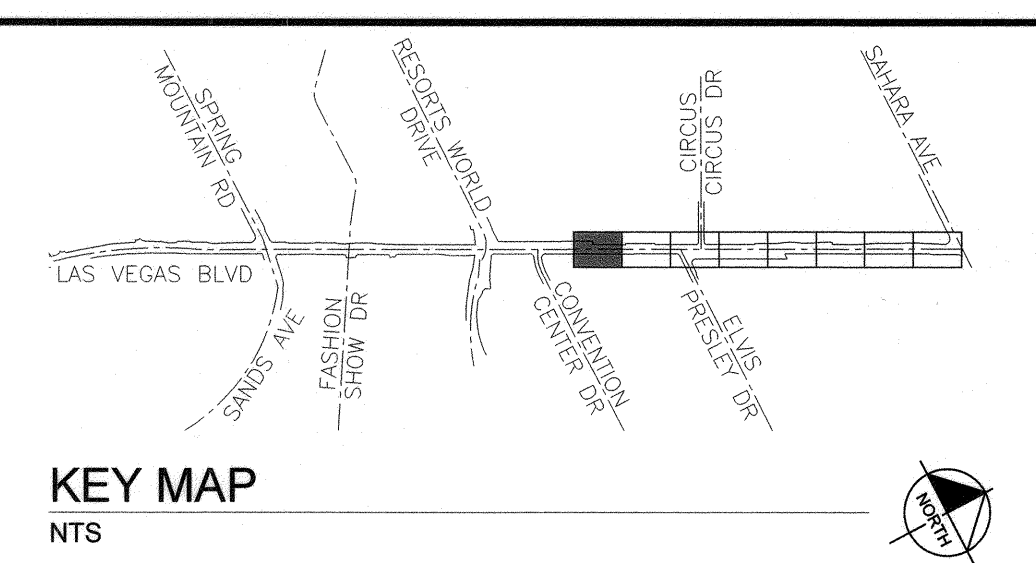
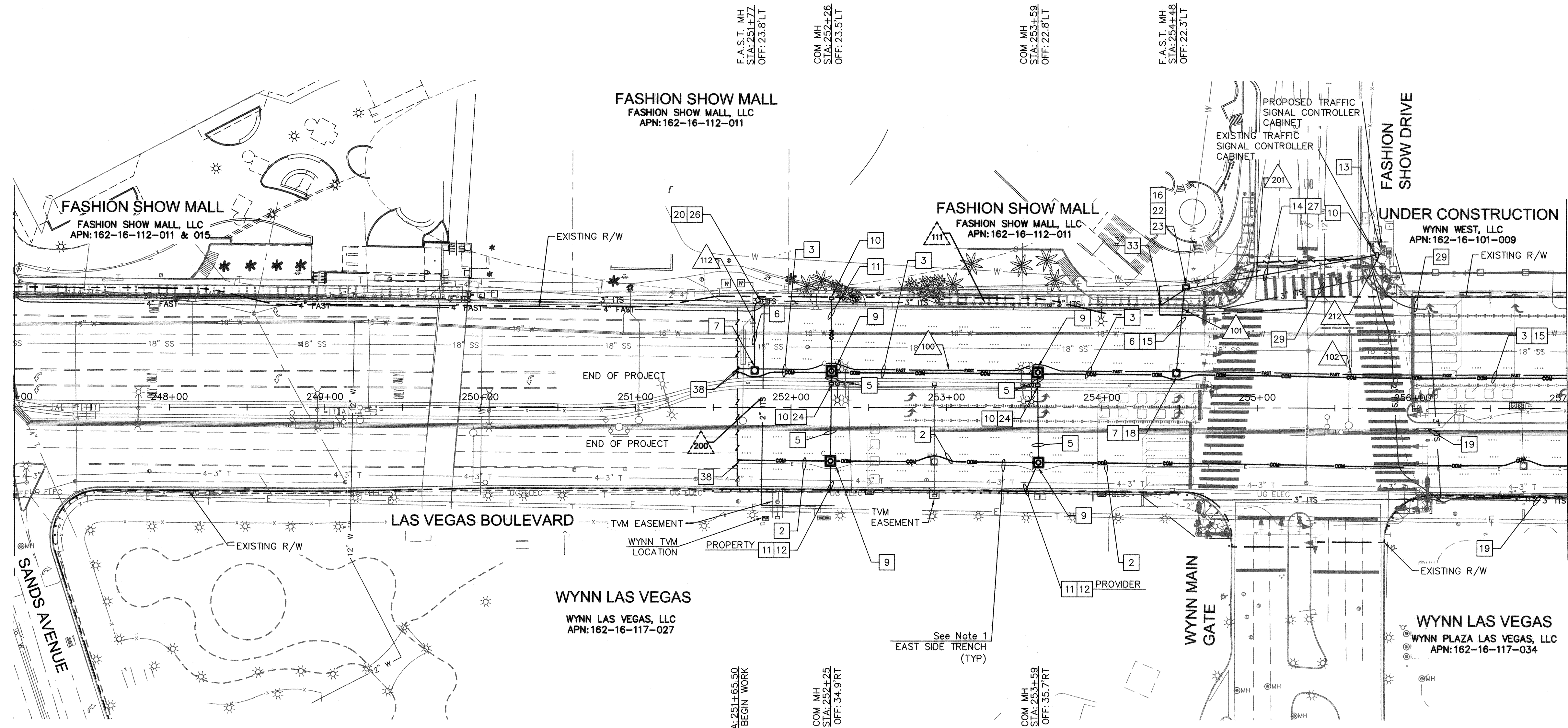
DESIGNED BY: GDG
 DRAWN BY: GDG
 CHECKED BY: JCK
 DATE: 11-15-2019
Kimley»Horn
6671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: N/A	COM-16
VERT: N/A	
FIELD BOOK: NONE	SHEET 225 OF 345
	L-2210

ISSUED FOR CONSTRUCTION

NOTE

REROUTE EXISTING 96 SMFO FROM CONDUIT RUN 111 TO CONDUIT RUNS 112, 100, AND 101. ABANDON CONDUIT RUN 111. SEE CONDUCTOR SCHEDULE ON SHEET COM-25. IF EXISTING SLACK IS NOT SUFFICIENT, COORDINATE WITH THE ENGINEER FOR ALTERNATE SOLUTION.



- COMMUNICATION NOTES**
- 2 INSTALL POWER AND COMMUNICATION DUCT BANK, SEE DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON THIS SHEET.
 - 3 INSTALL COMMUNICATION AND F.A.S.T. DUCT BANK, SEE DETAIL C ON SHEET COM-03.
 - 5 INSTALL COMMUNICATION LATERALS, SEE DETAIL E ON SHEET COM-04.
 - 6 INSTALL F.A.S.T. LATERALS, SEE DETAIL G-1 ON SHEET COM-04.
 - 7 FURNISH AND INSTALL NEW TRAFFIC RATED 4'X4' MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
 - 9 FURNISH AND INSTALL NEW TRAFFIC RATED 6'X6' MANHOLE PER DETAIL L ON SHEET COM-08. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
 - 10 FURNISH AND INSTALL NEW CLARK COUNTY P30 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 761.
 - 11 FURNISH AND INSTALL 1-4" PVC CONDUIT.
 - 12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.
 - 13 CONNECT CONDUIT TO CONTROLLER CABINET.
 - 14 FURNISH AND INSTALL 12 CDCA CABLE IN F.A.S.T. CONDUIT. ROUTE CDCA TO SIGNAL CONTROLLER CABINET OR TICKET VENDING MACHINE.
 - 15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT.
 - 16 COIL 60' OF 144 SMFO CABLE PER EACH CONDUIT ENTRANCE IN PULL BOX.
 - 18 COIL 200' OF 144 SMFO CABLE IN MAN HOLE.
 - 19 REMOVE EXISTING SMFO IN CONDUIT AND INSTALL PULL TAPE.
 - 20 UTILIZE EXISTING PULL BOX.
 - 22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.
 - 23 INSTALL NEW SPLICE ENCLOSURE AND FUSION SPLICE FIBER OPTIC CABLES PER SPLICE DETAILS.
 - 24 SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.
 - 26 ROUTE NEW CONDUIT INTO EXISTING PULL BOX.
 - 27 FURNISH AND INSTALL 2-4" PVC CONDUIT.
 - 29 ABANDON CONDUIT. REMOVE CONDUCTORS.
 - 33 INTERCEPT EXISTING CONDUIT INTO NEW PULL BOX.
 - 36 LICENSEE SHALL BE NOTIFIED 60 DAYS IN ADVANCE OF SMART POLE INSTALLATION TO RELOCATE EXISTING EQUIPMENT TO NEAREST SMART POLE. REMOVE EXISTING POLE AND FOUNDATION PER SPECIFICATIONS.
 - 38 CAP CONDUIT AT PROJECT LIMITS FOR FUTURE EXTENSION. SEE DETAIL O ON SHEET COM-11.

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

11-25-19 DATE

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.

- NOTES:**
1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN SAME TRENCH.
 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

SAFETY ALERT

Call Before You Dig

811

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UNION PACIFIC RAILROAD

Call Before You Dig

1-800-336-9193

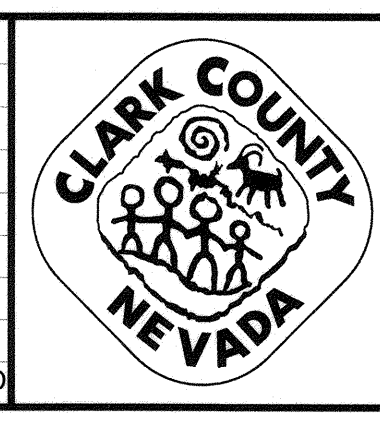
GRAPHIC SCALE IN FEET

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

APPROVED

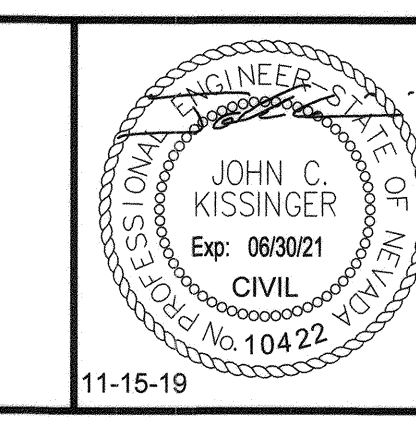


LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

COMMUNICATION PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
 DRAWN BY: MML
 CHECKED BY: JCK
 DATE: 11-15-2019

Kimley Horn

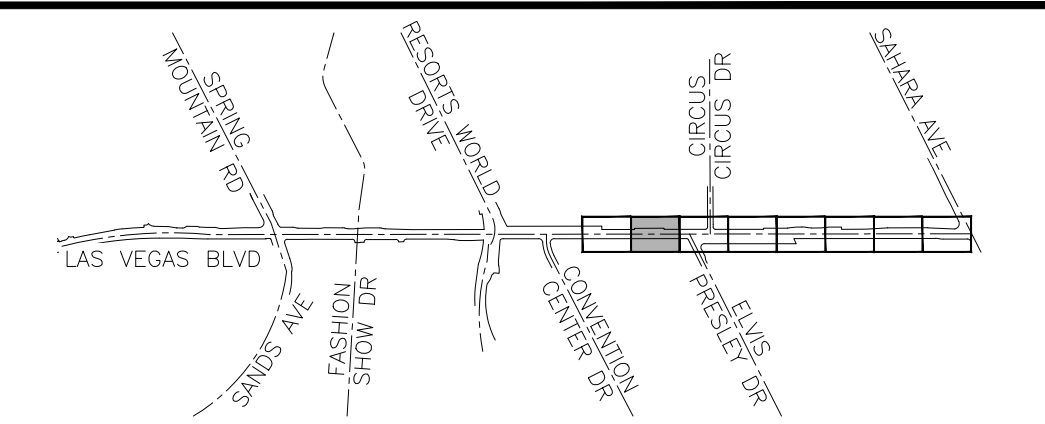
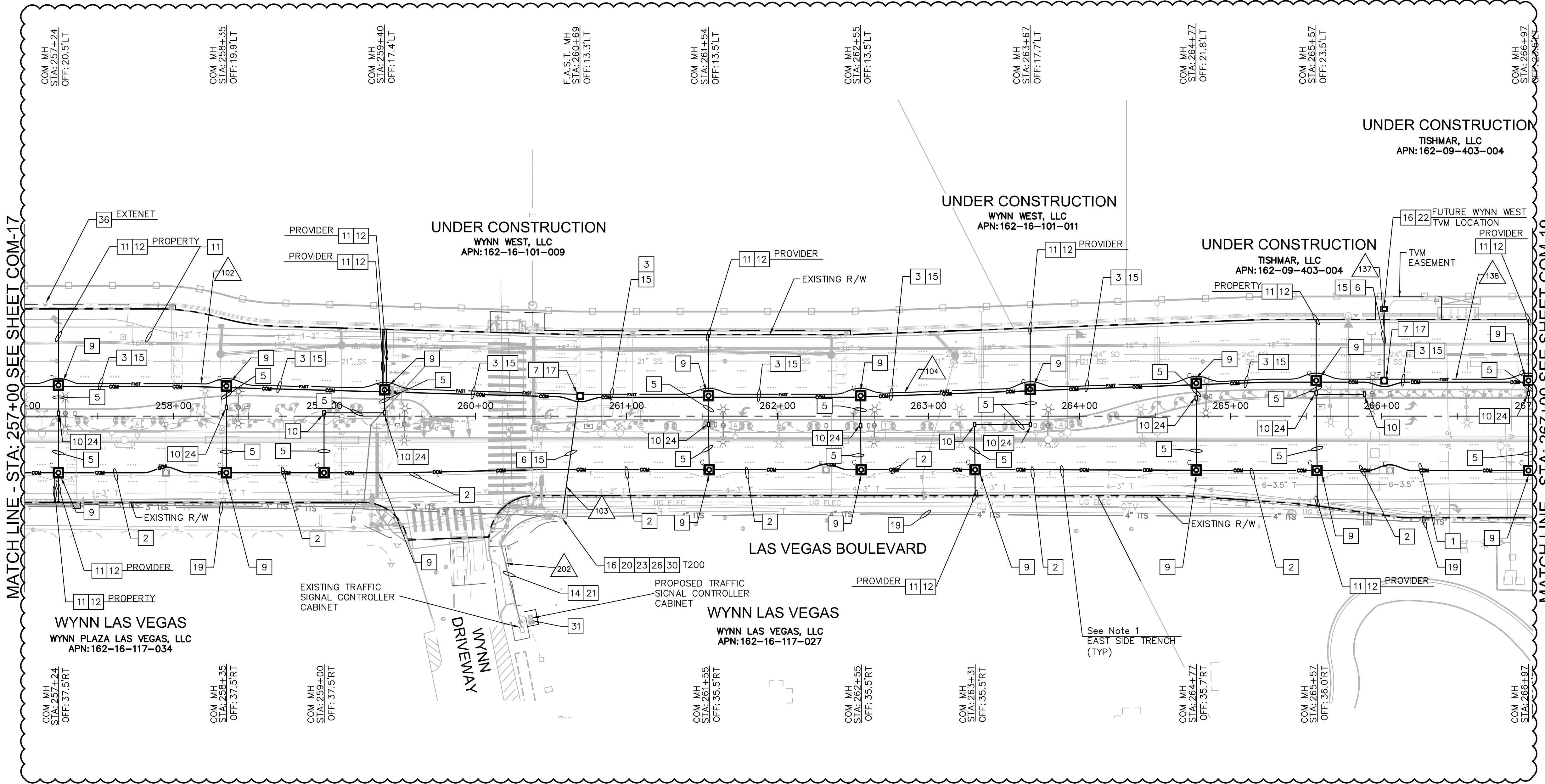
6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119
 Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: N/A	COM-17
VERT: N/A	SHEET 226 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

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

User: Gabrielle.Arnado
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KEY MAP
 NTS

COMMUNICATION NOTES

- 1 INSTALL COMMUNICATION DUCT BANK, SEE DETAIL A ON SHEET COM-02.
- 2 INSTALL POWER AND COMMUNICATION DUCT BANK, SEE DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON THIS SHEET.
- 3 INSTALL COMMUNICATION AND F.A.S.T. DUCT BANK, SEE DETAIL C ON SHEET COM-03.
- 5 INSTALL COMMUNICATION LATERALS, SEE DETAIL E ON SHEET COM-04.
- 6 INSTALL F.A.S.T. LATERALS, SEE DETAIL G-1 ON SHEET COM-04.
- 7 FURNISH AND INSTALL NEW TRAFFIC RATED 4'X4' MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 9 FURNISH AND INSTALL NEW TRAFFIC RATED 6'X6' MANHOLE PER DETAIL L ON SHEET COM-08. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 10 FURNISH AND INSTALL NEW CLARK COUNTY P30 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 761.
- 11 FURNISH AND INSTALL 1-4" PVC CONDUIT.
- 12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.
- 14 FURNISH AND INSTALL 12 CDCA CABLE IN F.A.S.T. CONDUIT. ROUTE CDCA TO SIGNAL CONTROLLER CABINET OR TICKET VENDING MACHINE.
- 15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT.
- 16 COIL 60' OF 144 SMFO CABLE PER EACH CONDUIT ENTRANCE IN PULL BOX.
- 17 COIL 100' OF 144 SMFO CABLE IN MAN HOLE.
- 19 REMOVE EXISTING SMFO IN CONDUIT AND INSTALL PULL TAPE.
- 20 UTILIZE EXISTING PULL BOX.
- 21 UTILIZE EXISTING CONDUIT.
- 22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.
- 23 INSTALL NEW SPLICE ENCLOSURE AND FUSION SPLICE FIBER OPTIC CABLES PER SPLICE DETAILS.
- 24 SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.
- 26 ROUTE NEW CONDUIT INTO EXISTING PULL BOX.
- 30 REMOVE AND SALVAGE EXISTING SPLICE ENCLOSURE.
- 31 REDIRECT EXISTING CONDUIT INTO NEW CONTROLLER CABINET.
- 36 LICENSEE SHALL BE NOTIFIED 60 DAYS IN ADVANCE OF SMART POLE INSTALLATION TO RELOCATE EXISTING EQUIPMENT TO NEAREST SMART POLE. REMOVE EXISTING POLE AND FOUNDATION PER SPECIFICATIONS.

CCWRD APPROVAL

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

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE: _____

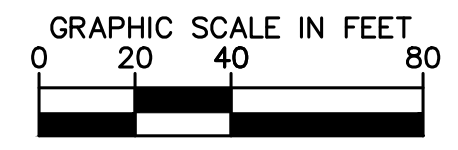
- NOTES:**
1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN SAME TRENCH.
 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

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

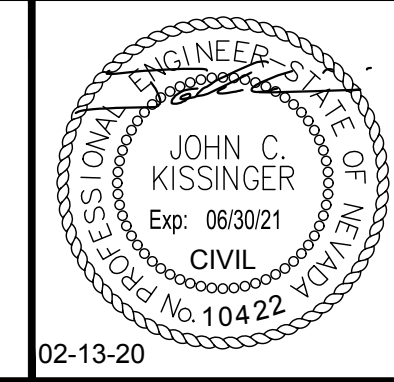
Call Before you UnderGround
 1-702-432-5300
 PREVENT AND AVOID COSTLY DISRUPTIONS



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	02/13/2020
APPROVED _____		



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



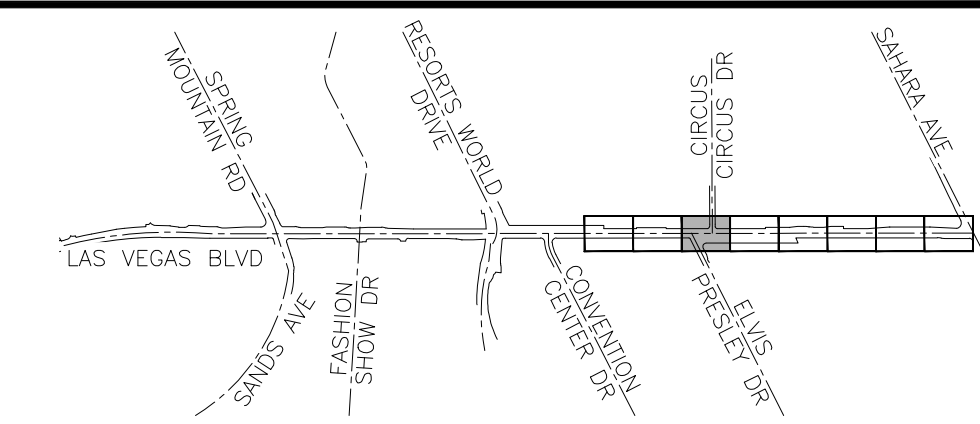
DESIGNED BY: GDG
 DRAWN BY: MML
 CHECKED BY: JCK
 DATE: 02-13-2020

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

SCALE	SHEET No
HORIZ: N/A	COM-18
VERT: N/A	SHEET 227 OF 345
FIELD BOOK NONE	L-2210

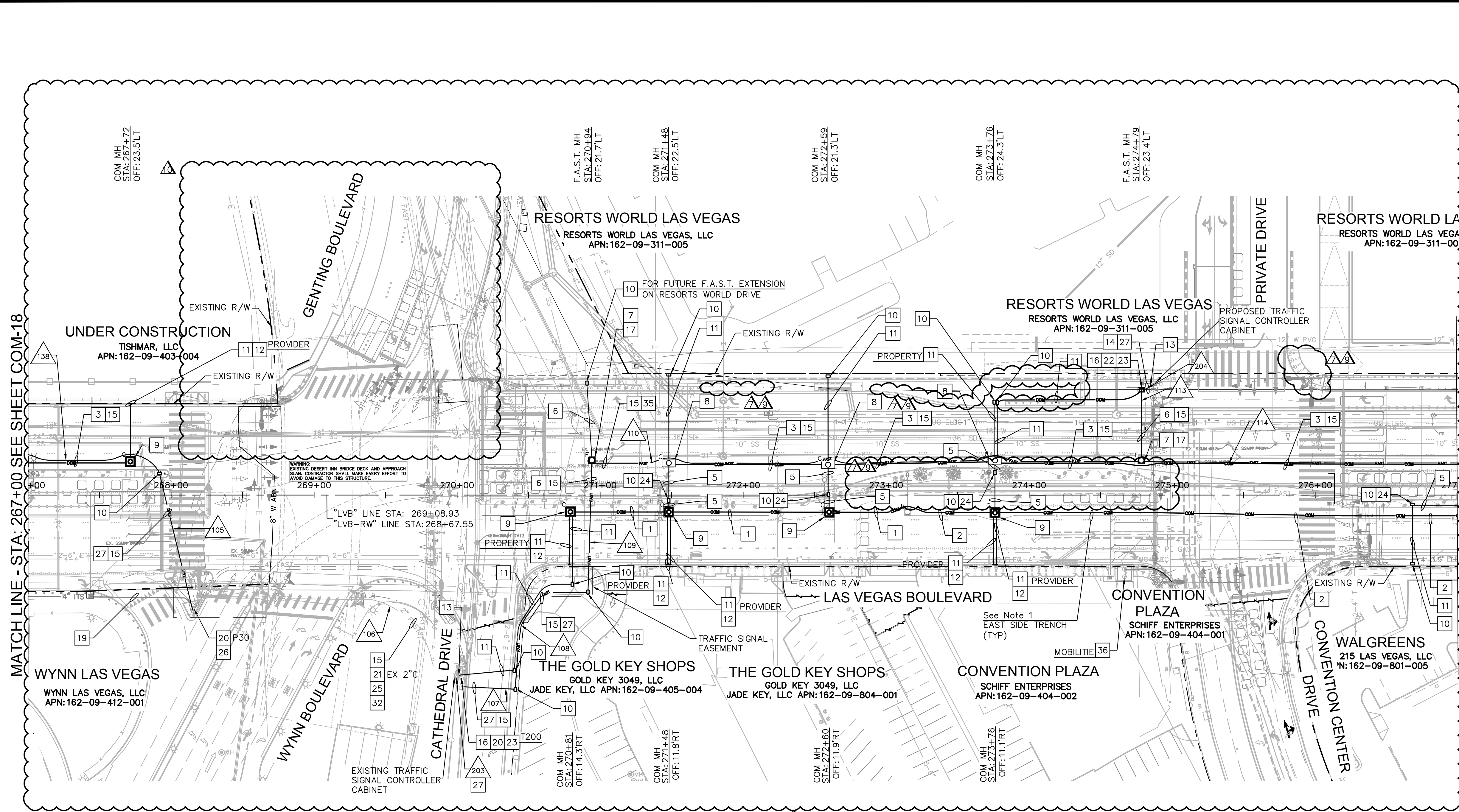
ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 BID No.: 606203-19



KEY MAP
NTS
COMMUNICATION NOTES

- 1 INSTALL COMMUNICATION DUCT BANK, SEE DETAIL A ON SHEET COM-02.
2 INSTALL POWER AND COMMUNICATION DUCT BANK, SEE DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON THIS SHEET.
3 INSTALL COMMUNICATION AND F.A.S.T. DUCT BANK, SEE DETAIL C ON SHEET COM-03.
5 INSTALL COMMUNICATION LATERALS, SEE DETAIL E ON SHEET COM-04.
6 INSTALL F.A.S.T. LATERALS, SEE DETAIL G-1 ON SHEET COM-04.
7 FURNISH AND INSTALL NEW TRAFFIC RATED 4'x4' MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
8 FURNISH AND INSTALL NEW TRAFFIC RATED 4'x6' MANHOLE PER DETAIL K ON SHEET COM-07. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
9 FURNISH AND INSTALL NEW TRAFFIC RATED 6'x6' MANHOLE PER DETAIL L ON SHEET COM-08. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
10 FURNISH AND INSTALL NEW CLARK COUNTY P30 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 761.
11 FURNISH AND INSTALL 1-4" PVC CONDUIT.
12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.
13 CONNECT CONDUIT TO CONTROLLER CABINET.
14 FURNISH AND INSTALL 12 CDCA CABLE IN F.A.S.T. CONDUIT. ROUTE CDCA TO SIGNAL CONTROLLER CABINET OR TICKET VENDING MACHINE.
15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT.
16 COIL 60' OF 144 SMFO CABLE PER EACH CONDUIT ENTRANCE IN PULL BOX.
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19 REMOVE EXISTING SMFO IN CONDUIT AND INSTALL PULL TAPE.
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22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.
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24 SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.
25 REMOVE EXISTING SMFO IN CONDUIT.
26 ROUTE NEW CONDUIT INTO EXISTING PULL BOX.
27 FURNISH AND INSTALL 2-4" PVC CONDUIT.



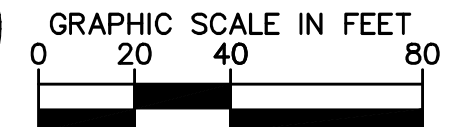
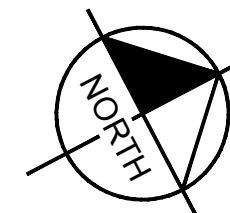
MATCH LINE - STA: 267+00 SEE SHEET COM-18

MATCH LINE - STA: 277+00 SEE SHEET COM-20

- 32 INSTALL 1" INNERDUCT IN EXISTING CONDUIT.
35 INSTALL F.A.S.T. DUCT BANK, SEE DETAIL G-2 ON SHEET COM-05.
36 LICENSEE SHALL BE NOTIFIED 60 DAYS IN ADVANCE OF SMART POLE INSTALLATION TO RELOCATE EXISTING EQUIPMENT TO NEAREST SMART POLE. REMOVE EXISTING POLE AND FOUNDATION PER SPECIFICATIONS.

NOTES:

- 1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN SAME TRENCH.
2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

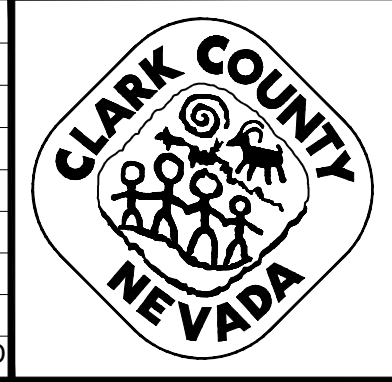


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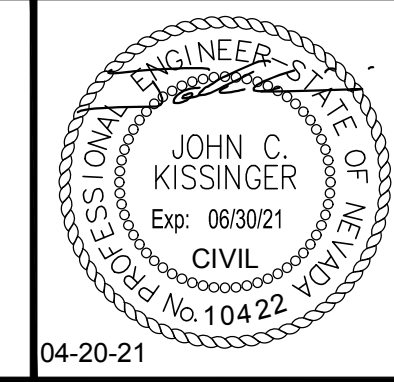
CCWRD APPROVAL

APPROVED FOR CONSTRUCTION. ORIGINALY 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. ORIGINALY SIGNED BY S. KAMOJJALA. LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES. PROJECT NO. 136077. FIRST APPROVED DATE.



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

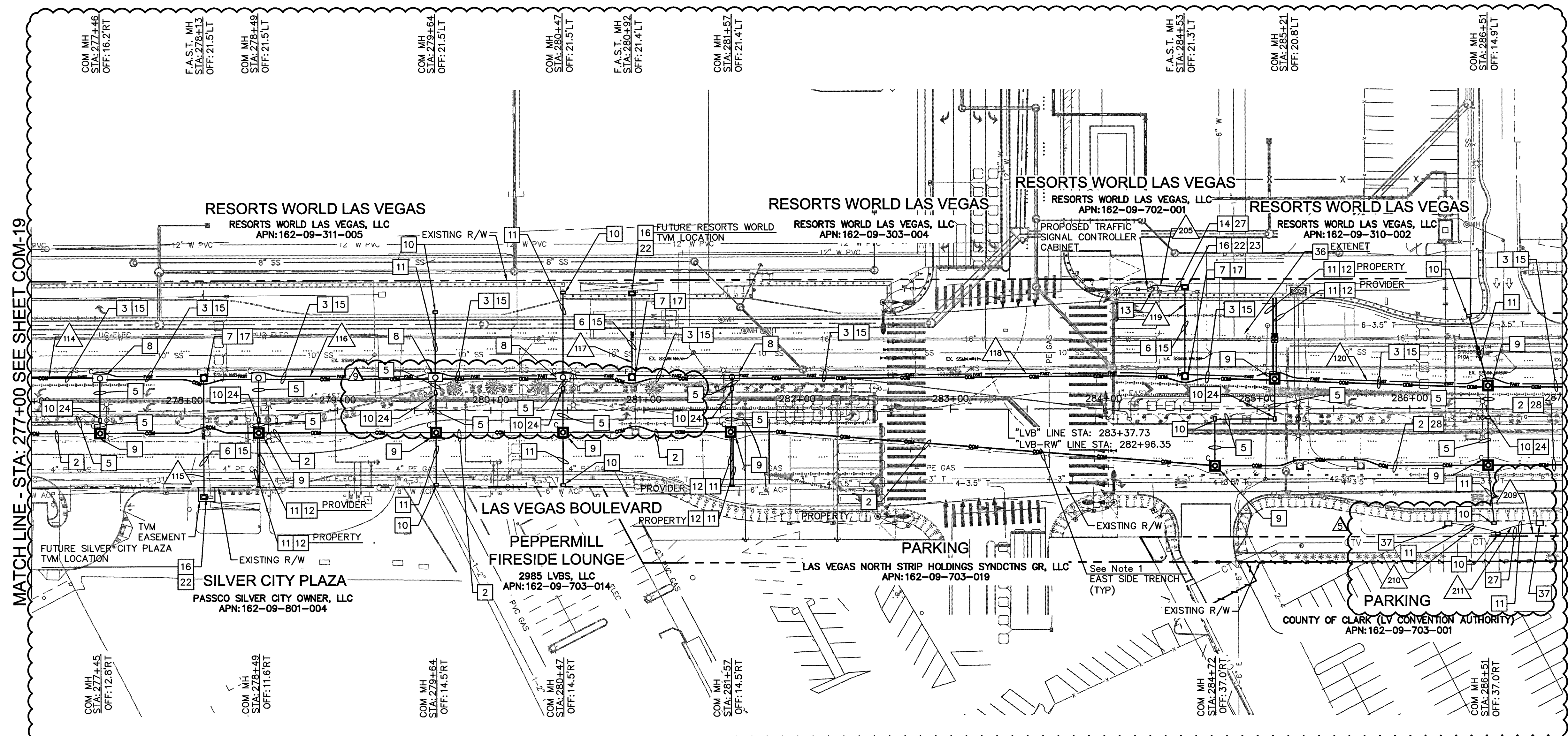
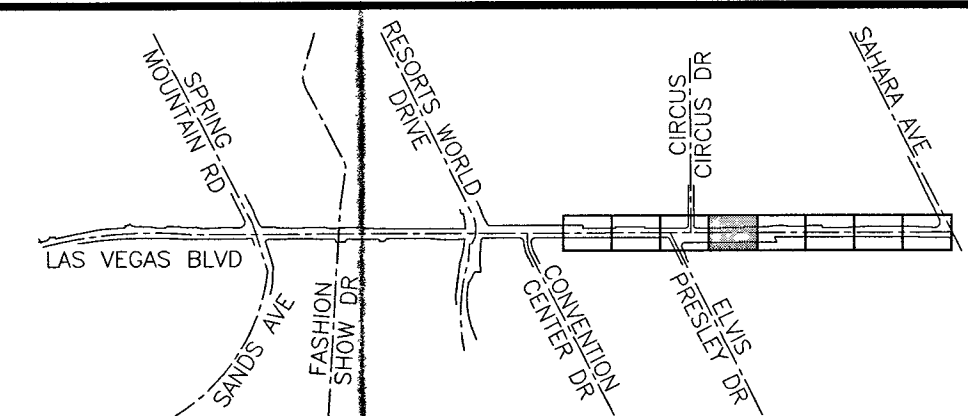


DESIGNED BY: GDG
DRAWN BY: MML
CHECKED BY: JCK
DATE: 04-20-2021
Kimley Horn logo and address: 6671 Las Vegas Boulevard South, Suite 320, Las Vegas, Nevada 89119, Tel. No. (702) 862-3600

Table with columns: SCALE, SHEET No, HORIZ, VERT, FIELD BOOK, SHEET 228 OF 345, L-2210

Table with columns: NO., REVISIONS, DATE. Includes revisions for issued for construction, revised per revision no. 2, revised per revision no. 3, RWLV related improvement rev, RWLV related improvement rev, LVB-GENTING INTERSECTION REVISION.

User: Daniel Wolf
Path: K:\LAV_Public\Trans\092061_CC\021-LVB_Roadway-Signal\CAD\Plan\092061021-TIS.dwg
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MATCH LINE - STA: 277+00 SEE SHEET COM-19

MATCH LINE - STA: 287+00 SEE SHEET COM-21

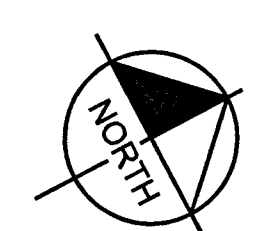
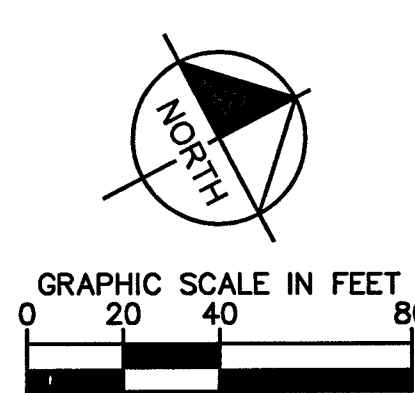
KEY MAP
NTS

COMMUNICATION NOTES

- 2 INSTALL POWER AND COMMUNICATION DUCT BANK, SEE DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON THIS SHEET.
- 3 INSTALL COMMUNICATION AND F.A.S.T. DUCT BANK, SEE DETAIL C ON SHEET COM-03.
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- 6 INSTALL F.A.S.T. LATERALS, SEE DETAIL G-1 ON SHEET COM-04.
- 7 FURNISH AND INSTALL NEW TRAFFIC RATED 4'X4' MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 8 FURNISH AND INSTALL NEW TRAFFIC RATED 4'X6' MANHOLE PER DETAIL K ON SHEET COM-07. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
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- 10 FURNISH AND INSTALL NEW CLARK COUNTY P30 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 761.
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- 12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.
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- 22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.
- 23 INSTALL NEW SPLICE ENCLOSURE AND FUSION SPLICE FIBER OPTIC CABLES PER SPLICE DETAILS.
- 24 SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.
- 27 FURNISH AND INSTALL 2-4" PVC CONDUIT.
- 28 INSTALL POWER SERVICE LATERAL PER DETAIL F ON SHEET COM-04. REFER TO ELECTRICAL SHEETS FOR INSTALLATION.
- 36 LICENSEE SHALL BE NOTIFIED 60 DAYS IN ADVANCE OF SMART POLE INSTALLATION TO RELOCATE EXISTING EQUIPMENT TO NEAREST SMART POLE. REMOVE EXISTING POLE AND FOUNDATION PER SPECIFICATIONS.
- 37 CONNECT 12 CDCA AND POWER TO NEW TVM FOUNDATION. CONTRACTOR TO COORDINATE WITH RTC FOR FINAL FOUNDATION LOCATION AND FOUNDATION DETAILS. SEE SPECIAL PROVISIONS.

NOTES:

- 1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN SAME TRENCH.
- 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.



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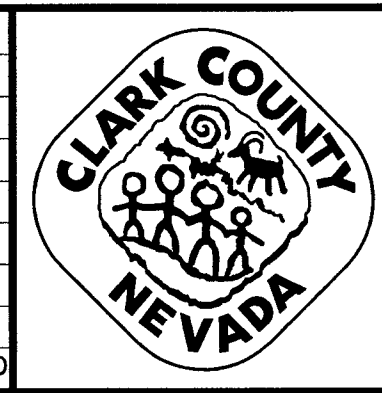
CCWRD APPROVAL

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

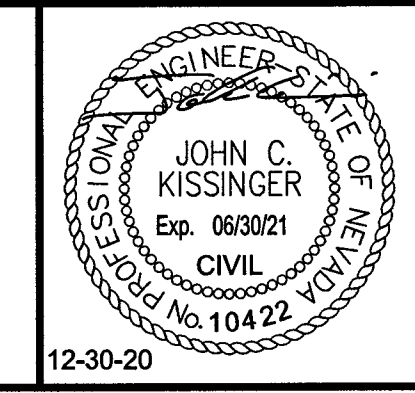
CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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	02/13/2020
4	REVISED PER REVISION NO. 5	07/29/2020
5	RWLW RELATED IMPROVEMENT REV	12/30/2020

APPROVED



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



DESIGNED BY: GDG
DRAWN BY: MML
CHECKED BY: JCK
DATE: 12-30-2020

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

SCALE

HORIZ: N/A
VERT: N/A

FIELD BOOK: NONE

SHEET No
COM-20

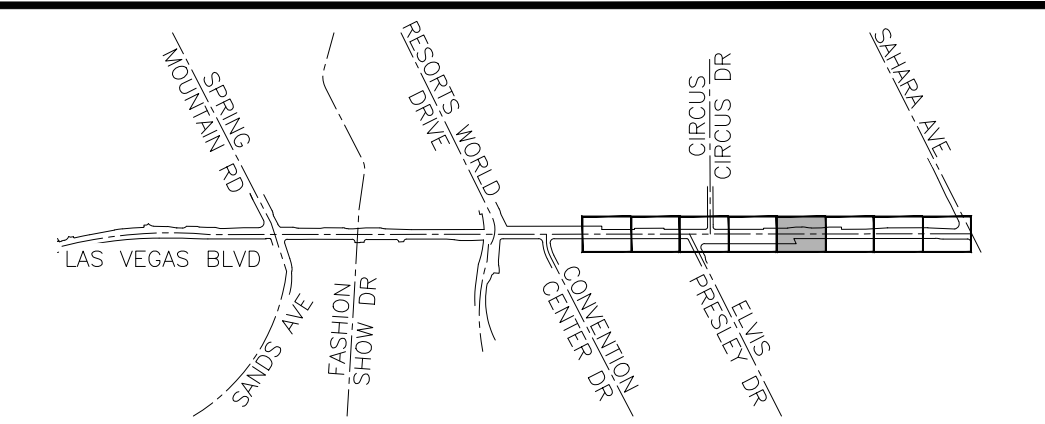
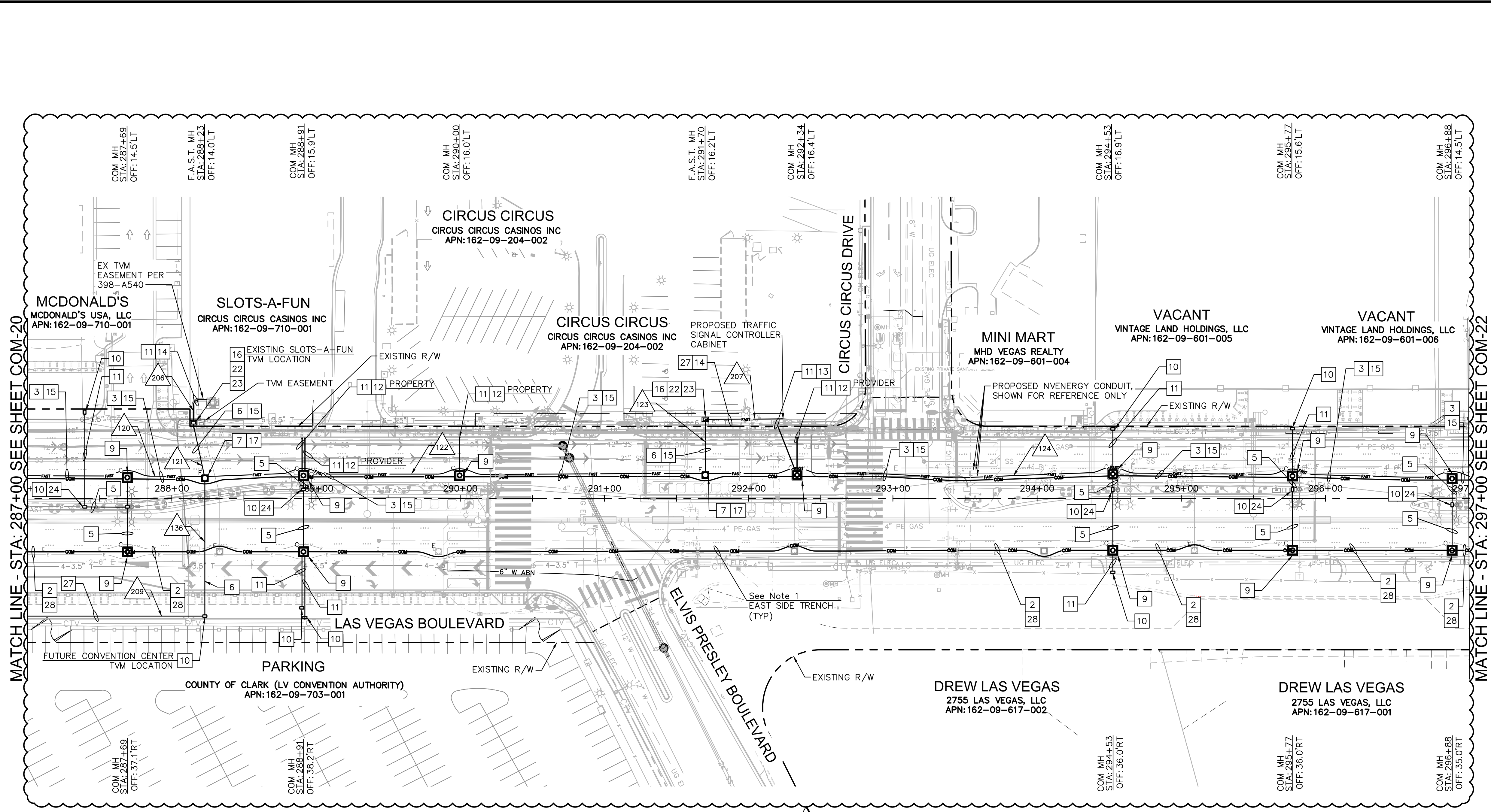
SHEET 229 OF 345

L-2210

ISSUED FOR CONSTRUCTION

User: fernando.razz
Path: K:\LAV_Publications\Signal\CAD\Drawings\092061021-TIS.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 approval by Kimley-Horn and Associates, Inc. will be without liability to Kimley-Horn and Associates, Inc.

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KEY MAP
NTS

COMMUNICATION NOTES

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 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

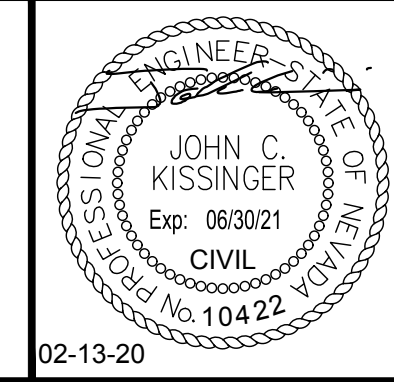
CLARK COUNTY WATER RECLAMATION DISTRICT
 COWRD PIPES NUMBER IS #19,949
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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

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	02/13/2020



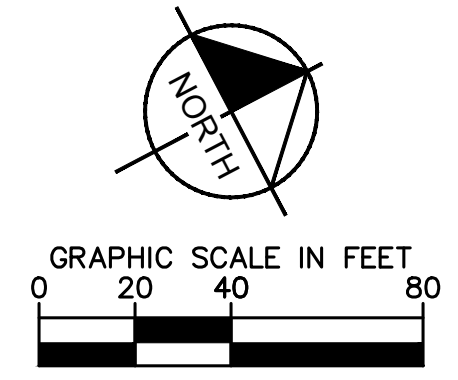
LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 COMMUNICATION PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
 DRAWN BY: MML
 CHECKED BY: JCK
 DATE: 02-13-2020
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	COM-21		
	SHEET 230 OF 345		
	L-2210		

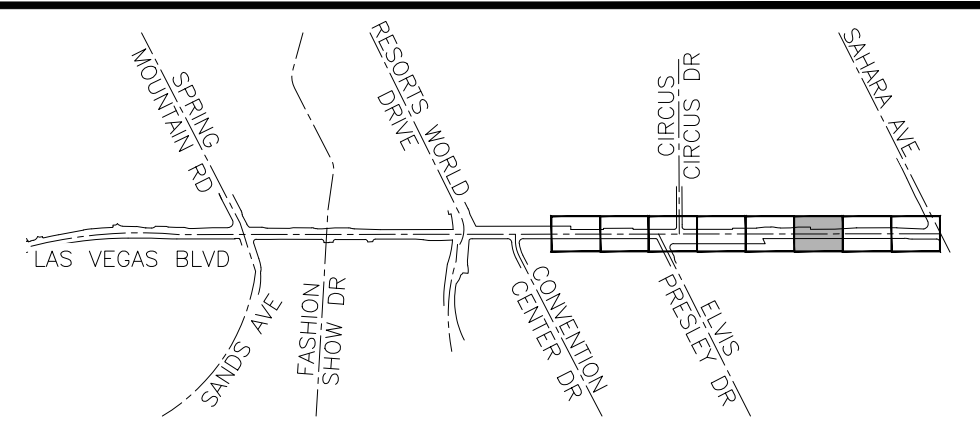
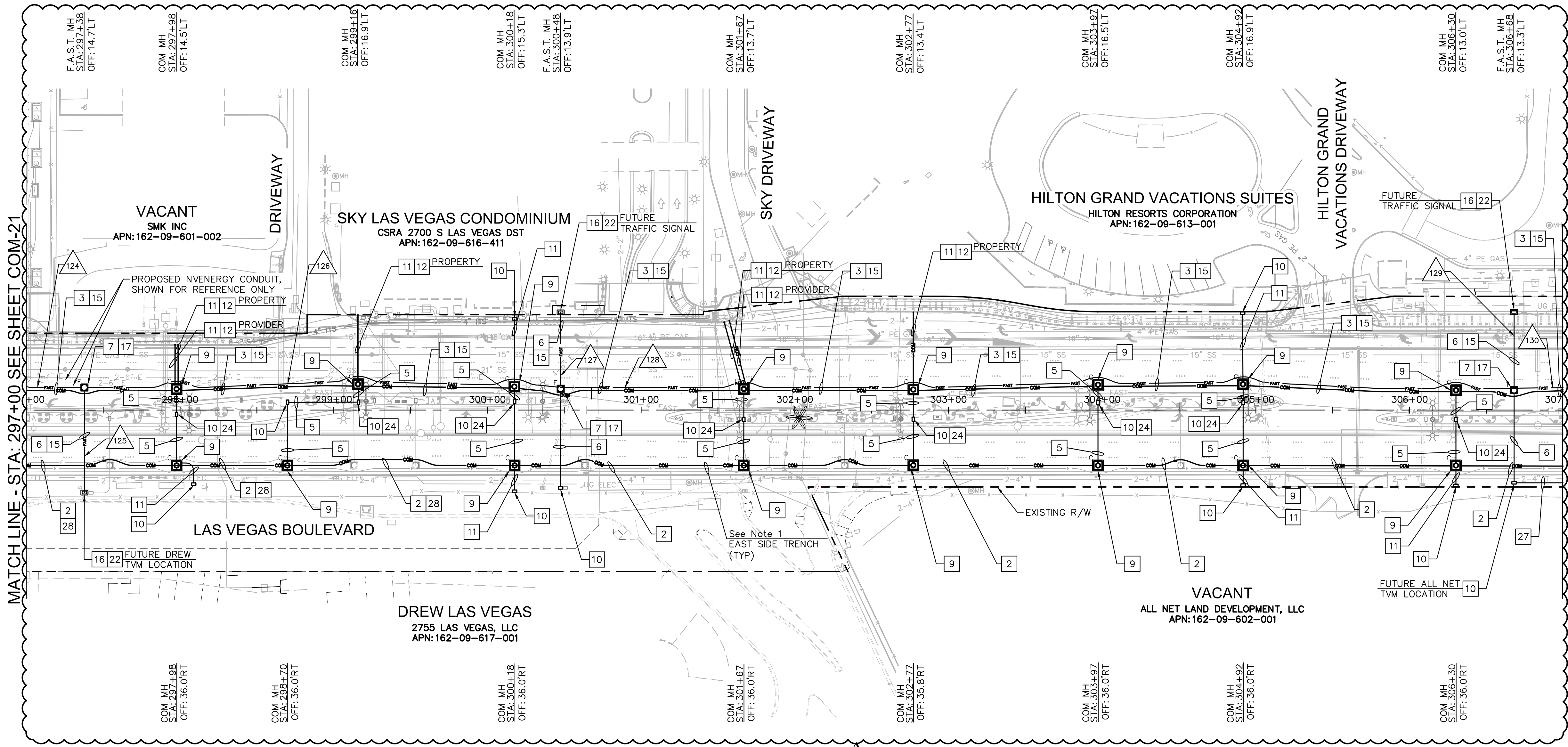
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 know what's below
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 BID No.: 606203-19

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- NOTES:**
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 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

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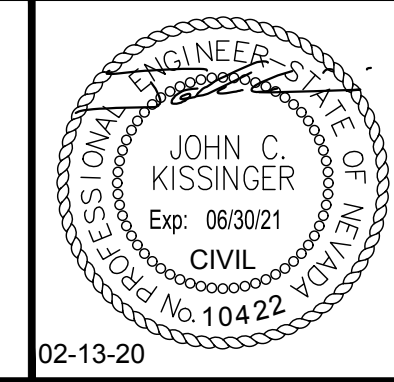
CLARK COUNTY WATER RECLAMATION DISTRICT DATE

CCWRD PIPES NUMBER IS #19,949
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LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136077 FIRST APPROVED DATE:



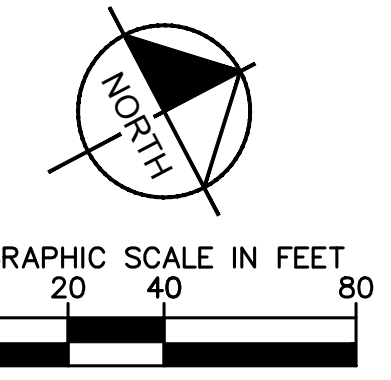
**LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS**
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
COMMUNICATION PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
DRAWN BY: MML
CHECKED BY: JCK
DATE: 02-13-2020

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

SCALE	SHEET No
HORIZ: N/A	COM-22
VERT: N/A	SHEET 231 OF 345
FIELD BOOK NONE	L-2210



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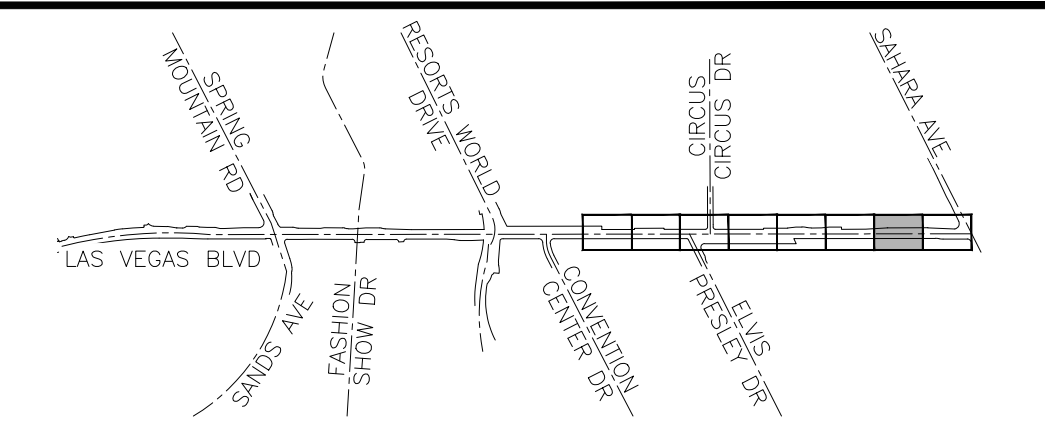
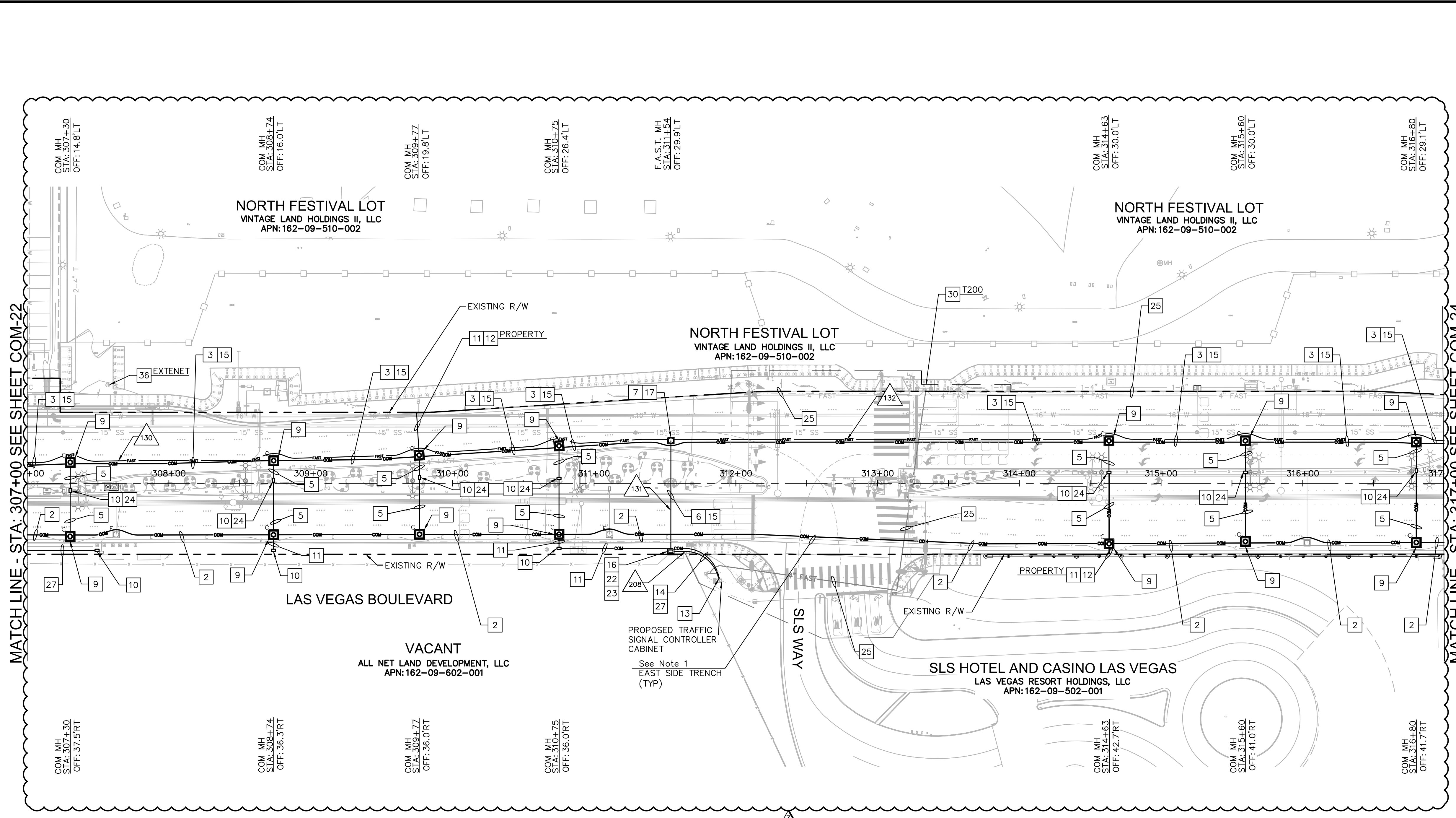
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FREELY AND MUTUALLY SERVICE OF TRANSPORTATION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

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KEY MAP
 NTS

COMMUNICATION NOTES

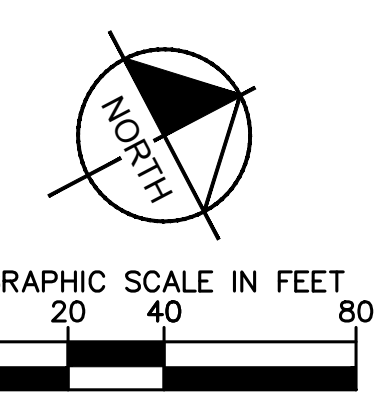
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MATCHLINE - STA: 307+00 SEE SHEET COM-22

MATCHLINE - STA: 317+00 SEE SHEET COM-24

- NOTES:**
1. SEE ELECTRICAL PLANS ON SHEETS 235-245 FOR THE INSTALLATION OF POWER DUCT BANK IN SAME TRENCH.
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CAUTION: HIGH PRESSURE GAS!!
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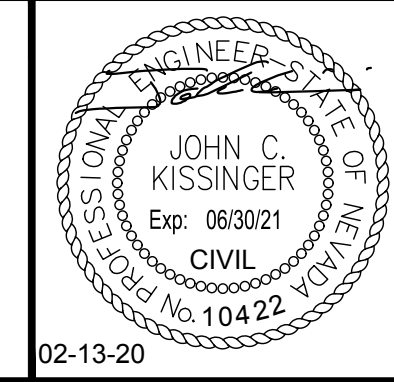
CLARK COUNTY WATER RECLAMATION DISTRICT
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APPROVED FOR CONSTRUCTION
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 136077 FIRST APPROVED DATE:

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	02/13/2020
APPROVED		



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



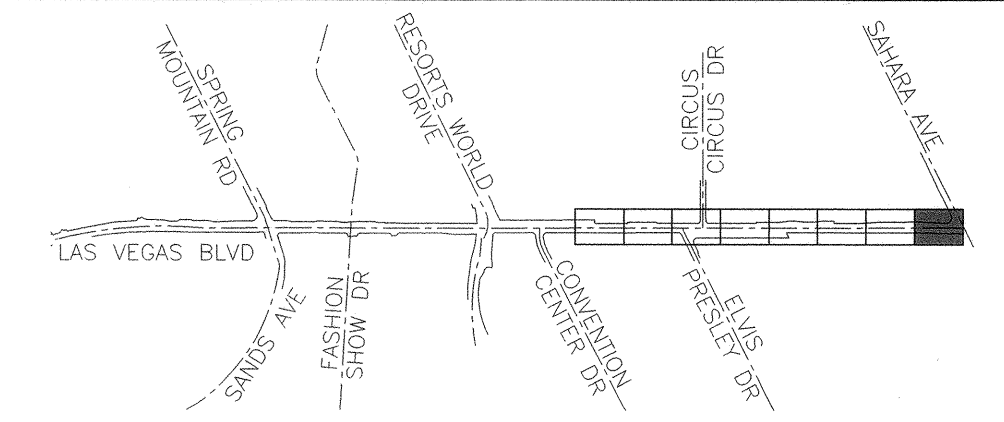
DESIGNED BY: GDG
 DRAWN BY: MML
 CHECKED BY: JCK
 DATE: 02-13-2020

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

SCALE	SHEET No
HORIZ: N/A	COM-23
VERT: N/A	SHEET 232 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
 BID No.: 606203-19

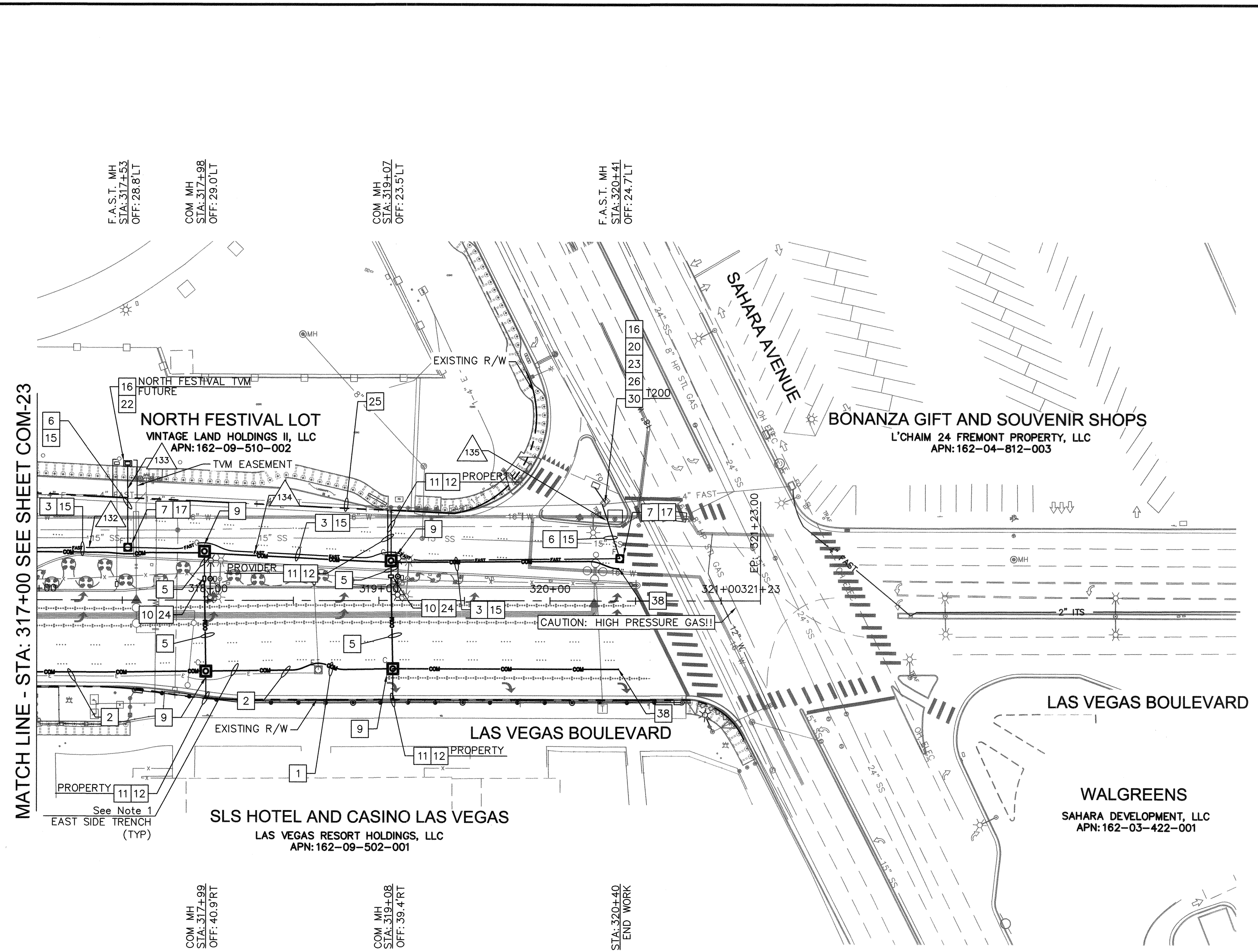


KEY MAP
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- NOTES:**
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 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.



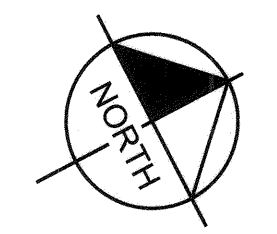
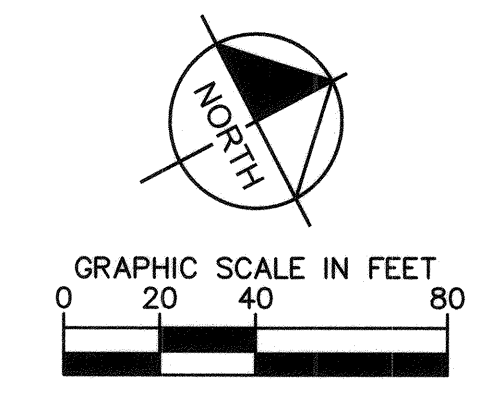
MATCH LINE - STA: 317+00 SEE SHEET COM-23

11.25.19
DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #19.949
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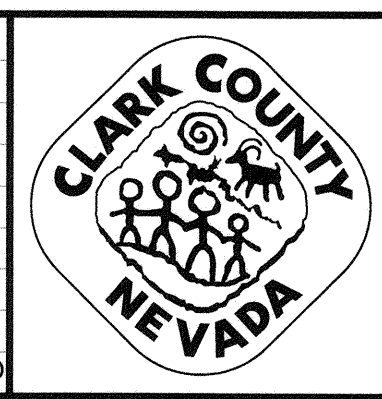


SAFETY ALERT
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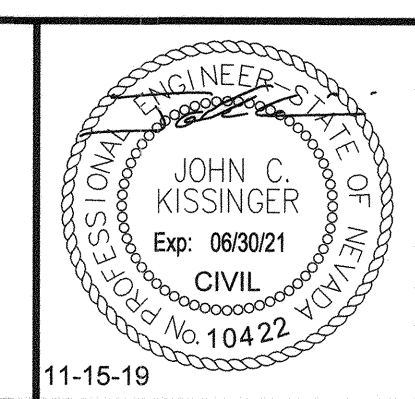
UNION PACIFIC RAILROAD
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NO.	REVISIONS	DATE
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
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COMMUNICATION PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: GDG
DRAWN BY: MML
CHECKED BY: JCK
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: N/A	COM-24
VERT: N/A	SHEET 233 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

User: fernando.roz / Path: K:\New_publications\092019\092019-ITS.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 adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

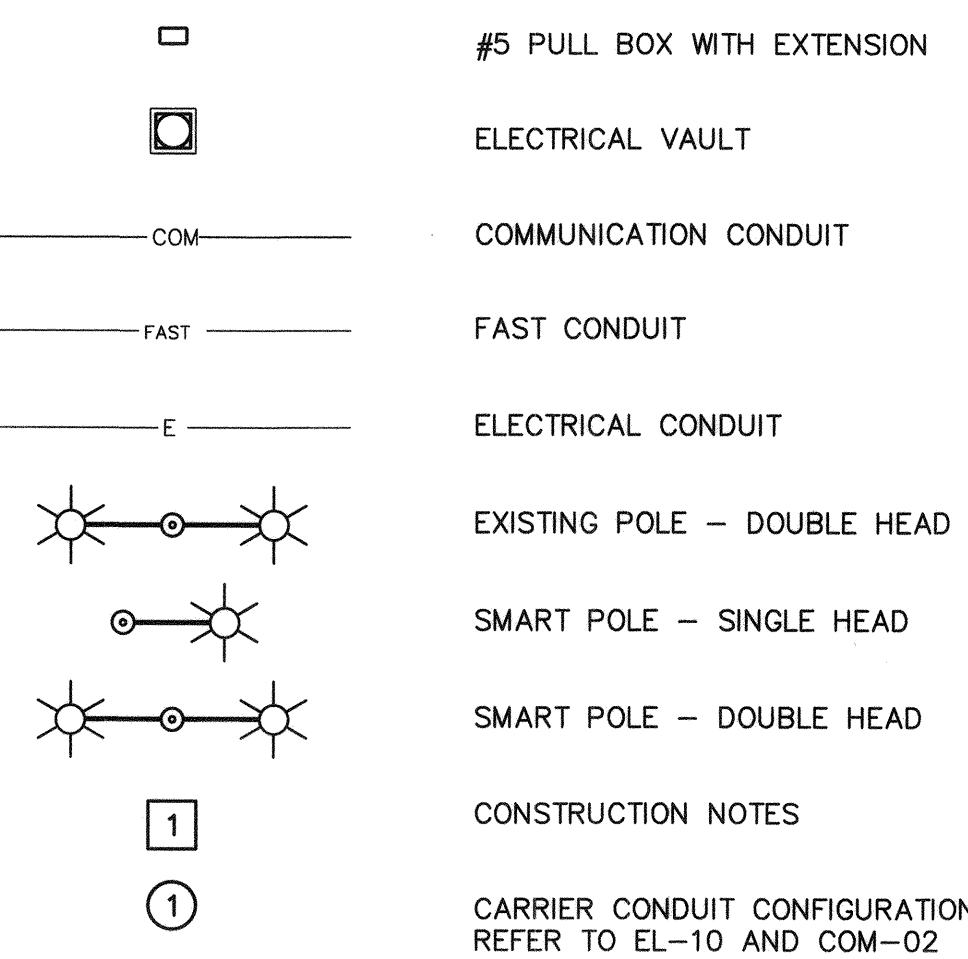
CONSTRUCTION NOTES

- 1. INSTALL NEW 15" MAST ARM WITH TYPE B LIGHT ASSEMBLY ON EXISTING TRAFFIC POLE.
2. PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
3. PROVIDE POWER LATERALS, SEE DETAIL D ON COM-03.
4. PROVIDE POWER LATERALS, SEE DETAIL F ON COM-04.
5. PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
6. PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN '11' OR '1' LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
7. PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP.
8. PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
9. CONNECT TO EXISTING METERS AT 2778 LV BLVD. COORDINATE AND CONNECT EXISTING LANDSCAPE LIGHTING AND STREET LIGHT METERS TO THE PROPER CORRESPONDING NEW SWITCHGEAR.
10. PROVIDE LANDSCAPE AND STREET LIGHTING SWITCHGEAR. INSTALL AND TEST PRIOR TO CUTOVER. INSTALL CABLES AND CONDUIT BEFORE EXISTING SWITCHGEAR IS SHUT OFF. COORDINATE WITH THE COUNTY 2 WEEKS PRIOR TO SHUTTING DOWN EXISTING SWITCHGEAR. PROVIDE TEMPORARY STREET LIGHTING IF THE CUTOVER TAKES MORE THAN 1 NIGHT.
11. PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
12. PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
13. REFER TO TRAFFIC SIGNAL PLANS FOR INTERSECTION LIGHT ASSEMBLIES.
14. PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW STREET LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
15. PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW LANDSCAPE LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
16. REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION. SALVAGE LUMINAIRE AND POLE TO THE COUNTY BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
17. COORDINATE WITH PROVIDER OF EXISTING WIRELESS EQUIPMENT ON EXISTING POLE TO HAVE THE EQUIPMENT RELOCATED TO NEW SMART POLE.
18. CONNECT EXISTING STREET LIGHT CONDUIT HEADING SOUTH INTO PULLBOX. DISCONNECT STREET LIGHT (SG#3, CKT 5) FED FROM EXISTING LIGHT POLE TO THE NORTH AND PULL CABLE SLACK BACK TO PULL BOX. SPlice NEW CONDUCTORS (SG# 3, CKT 2) TO EXISTING CIRCUIT CABLES HEADING SOUTH.
19. STUB, CAP, AND SURVEY CONDUITS AT LIMITS OF CONSTRUCTION.
20. REMOVE EXISTING SWITCHGEAR AND FOUNDATION. BACK FILL EXCAVATION IN ACCORDANCE WITH CIVIL SECTIONS. NEW SWITCHGEAR MUST BE FUNCTIONAL PRIOR TO REMOVAL OF EXISTING SWITCHGEAR.
21. PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02. PROVIDE ELECTRICAL CONDUITS ONLY.
22. PROVIDE POWER DUCT BANK, SEE DETAIL I ON COM-05.
23. PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.
24. PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.

GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.
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.
3. ALL UNDERGROUND CONDUIT INSTALL SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
4. ALL PULL BOXES SHALL BE BONDED PER CCAUSD NO. 323.
5. CONTRACTOR SHALL INSTALL ALL PROPOSED CONDUITS (TRAFFIC SIGNAL, STREET LIGHTING, INTERCONNECT, ETC.) IN THE SAME TRENCH WHENEVER POSSIBLE. REFER TO OTHER SHEETS THIS SET FOR OTHER PROPOSED CONDUITS.
6. CONDUIT ROUTING AND PULL BOX PLACEMENT LOCATIONS ARE SHOWN SCHEMATICALLY ON THE PLANS AND MAY VARY IN THE FIELD.
7. CONTRACTOR SHALL COVER AND/OR CAP ALL CONDUIT ENDS IN THE PULL BOXES.
8. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. ALL IMPROVEMENTS/STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
9. ALL SPOIL MATERIALS SHALL BE REMOVED OFFSITE EACH DAY.
10. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.
11. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO FINAL GRADE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT BANK AND ORANGE DYE FOR CLSM BACKFILL AROUND COMMUNICATION DUCT BANK UNLESS OTHERWISE NOTED ON THE PLANS.
12. CONTRACTOR SHALL SUBMIT A STREET LIGHT REPLACEMENT PHASING PLAN TO THE ENGINEER FOR APPROVAL. ALL EXISTING STREET LIGHTS SHALL REMAIN OPERATIONAL WHILE THE NEW SMART POLES, STREET LIGHT ASSEMBLIES, AND ASSOCIATED POWER CONDUITS AND STREET LIGHT CIRCUITS ARE INSTALLED AND SUCCESSFULLY TESTED FOR PROPER INSTALLATION AND OPERATION. EACH EXISTING STREET LIGHT SHALL REMAIN OPERATIONAL UNTIL ITS REPLACEMENT IS OPERATIONAL AND READY TO TAKE OVER LIGHTING THE ASSOCIATED AREA OF THE EXISTING LIGHT BEING REPLACED.
13. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
14. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD. CONTRACTOR SHALL PHOTOGRAPH ALL EXISTING POLES PRIOR TO REMOVAL FOR REFERENCE.

LEGEND



ABBREVIATIONS

Table with two columns: Abbreviation and Full Name. Includes terms like EM (EMERGENCY), ENT (ELECTRICAL METALLIC CONDUIT), EQUIP (EQUIPMENT), EXIST (EXISTING), FA (FIRE ALARM), FACP (FIRE ALARM CONTROL PANEL), FBO (FURNISHED BY OTHERS), FL (FLOOR), FLA (FULL LOAD AMPERES), FMC (FLEXIBLE METAL CONDUIT), FPN (FUSE PER EQUIPMENT NAMEPLATE), FSD (FIRE SMOKE DAMPER), FVM (FIELD VERIFY MOUNTING), FVMH (FIELD VERIFY MOUNTING HEIGHT), FVNR (FULL VOLTAGE NON-REVERSING), FVR (FULL VOLTAGE REVERSING), G (GROUND), GA (GAUGE), GALV (GALVANIZED), GEN (GENERATOR), GFCI (GROUND FAULT CIRCUIT INTERRUPTER), GFP (GROUND FAULT PROTECTION), GND (GROUND), HD (HEAVY DUTY), HID (HIGH INTENSITY DISCHARGE), HOA (HAND-OFF-AUTOMATIC), HP (HORSEPOWER), HPS (HIGH-PRESSURE SODIUM), HV (HIGH VOLTAGE), HVAC (HEATING, VENTILATION & AIR CONDITIONING), Hz (HERTZ, UNIT OF FREQUENCY), I/O (INPUT/OUTPUT), IG (ISOLATED GROUND), IMC (INTERMEDIATE METAL CONDUIT), IN/IS (INSULATED/ISOLATED), IR (INFRARED), KV (KILOVOLT), KVA (KILOVOLT AMPERE), KVAR (KILOVOLT AMPERE REACTIVE), KW (KILOWATT), KWH (KILOWATT HOUR), LED (LIGHT EMITTING DIODE), LFNC (LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT), LPS (LOW-PRESSURE SODIUM), LRC (LOCKED ROTOR CURRENT), LTG (LIGHTING), LV (LOW VOLTAGE), MAX (MAXIMUM), MC (METAL CLAD), MCA (MINIMUM CIRCUIT AMPERES), MCB (MAIN CIRCUIT BREAKER), MCC (MOTOR CONTROL CENTER), MCP (MOTOR CIRCUIT PROTECTION), MECH (MECHANICAL), MFR (MANUFACTURER), MH (MAN HOLE), MIN (MINIMUM), MISC (MISCELLANEOUS), MLO (MAIN LUGS ONLY), MOC (MAXIMUM OVER-CURRENT PROTECTION), N (NORTH), NA (NOT APPLICABLE), NC (NORMALLY CLOSED), NEC (NATIONAL ELECTRIC CODE), NEMA (NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION), NFC (NATIONAL FIRE CODE), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), NIC (NOT IN CONTRACT), NL (NIGHT LIGHT), NO (NORMALLY OPEN), NO (NUMBER), NTS (NOT TO SCALE), OC (ON CENTER), OCP (OVER-CURRENT PROTECTION), OFCI (OWNER FURNISHED CONTRACTOR INSTALLED), OFOI (OWNER FURNISHED OWNER INSTALLED), OHD (OVERHEAD DOOR), OL (OVERLOAD), PB (PUSH BUTTON), PF (POWER FACTOR), PH (PHASE), PNL (PANEL), PVC (POLYVINYL CHLORIDE), QTY (QUANTITY), R (RELOCATE DEVICE/FIXTURE), RCP (REFLECTED CEILING PLAN), REF (REFRIGERATOR), REV (REVISIONS/REVISED), RMC (RIGID METAL CONDUIT), RNC (RIGID NONMETALLIC CONDUIT), RPM (REVOLUTIONS PER MINUTE), S (SOUTH), S/N (SWITCH NEUTRAL), S/S (START/STOP), SCA (SHORT CIRCUIT AMPERES), SF (SQUARE FOOT/FEET), SFBA (STANDARD FINISH/COLOR BY ARCHITECT), SPD (SURGE PROTECTION DEVICE), SPDT (SINGLE POLE DOUBLE THROW), SPEC (SPECIFICATION), SPST (SINGLE POLE SINGLE THROW), SQ (SQUARE), ST (SINGLE THROW), STRUCT (STRUCTURAL), SWBD (SWITCHBOARD), SWGR (SWITCHGEAR), TEMP (TEMPORARY), TL (TWISTLOCK), TP (TWISTED PAIR), TSP (TWISTED SHIELDED PAIR), TT (TELEPHONE TERMINAL BOARD), TV (TELEVISION (CABLE)), TVSS (TRANSIENT VOLTAGE SURGE SUPPRESSOR), TYP (TYPICAL), UF (UNDERFLOOR/UNDERSLAB), UGND (UNDERGROUND), UNO (UNLESS NOTED OTHERWISE), UNSW (UNSWITCHED), UPS (UNINTERRUPTIBLE POWER SOURCE), V (VOLTS/VOLTAGE), VA (VOLT AMPERE), VFD (VARIABLE FREQUENCY DRIVE), W (WEST), W (WALL), W/ (WITH), W/O (WITHOUT), WH (WATER HEATER), WP (WEATHER PROOF (NEMA 3R)), X (DEMOLISH), XFMR (TRANSFORMER), XP (EXPLOSION PROOF), Y (WYE).

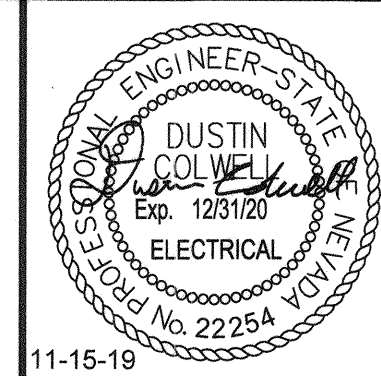
RFI 002

CLARK COUNTY WATER RECLAMATION DISTRICT
DATE 11.25.19
COWRD PIPES NUMBER IS #19.715
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.

Table with columns: NO., REVISIONS, DATE. Includes entries for ISSUED FOR CONSTRUCTION (10/23/2019) and REVISED PER REVISION NO. 2 (11/15/2019).



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



DESIGNED BY: DJC
DRAWN BY: MT
CHECKED BY: DH
DATE: 11-15-2019
Kimley Horn logo and address: 6871 Las Vegas Boulevard South, Suite 320, Las Vegas, Nevada 89119, Tel. No. (702) 882-3800

Table with columns: SCALE (HORIZ: N/A, VERT: N/A, FIELD BOOK: NONE), SHEET No (EL-01), SHEET 235 OF 345, L-2210

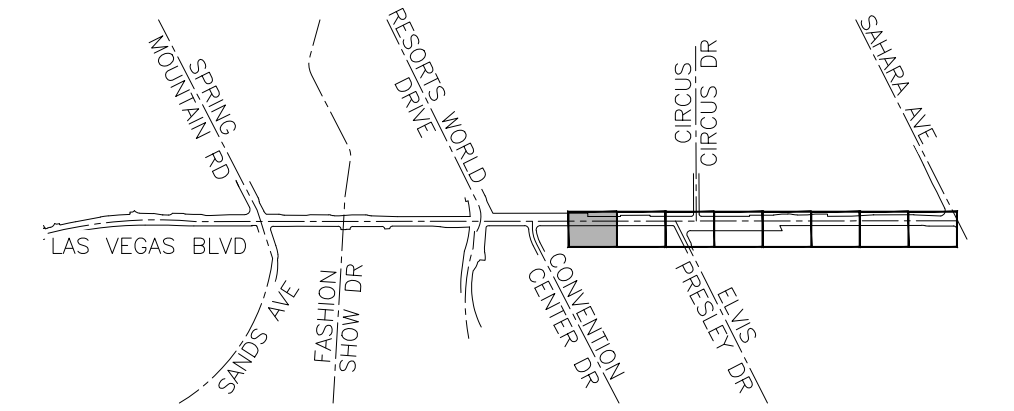
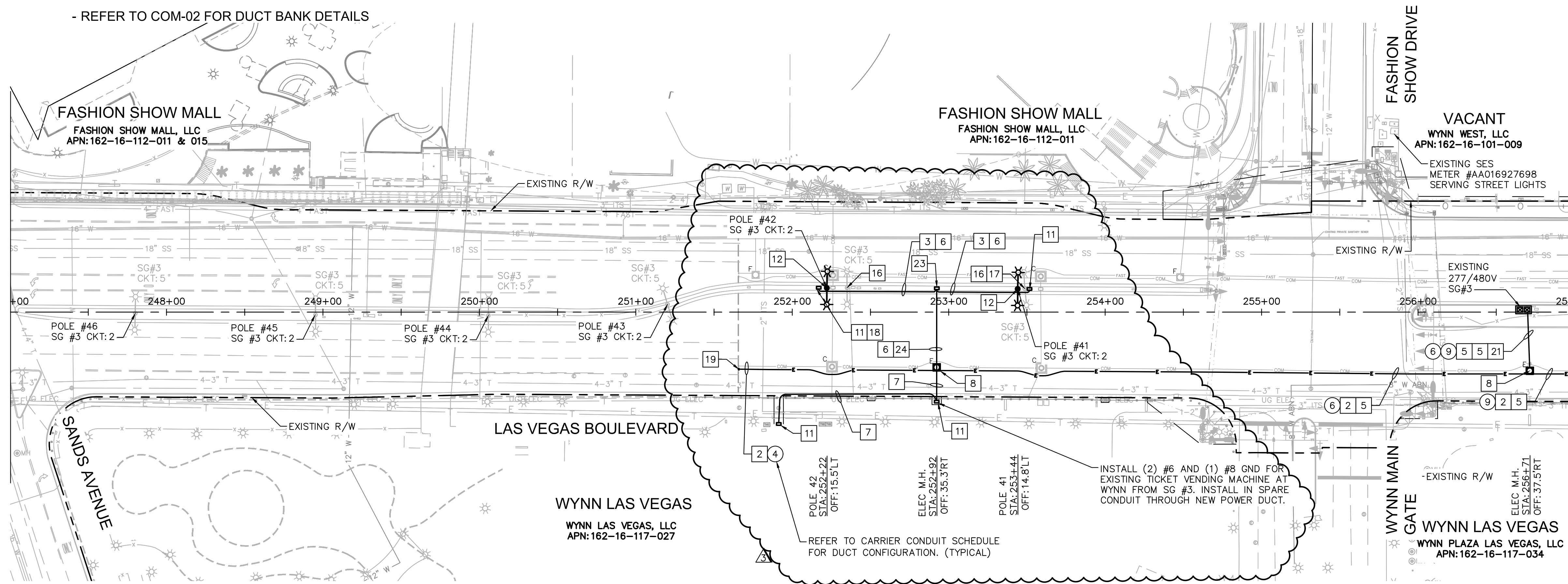
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Vertical text on the left margin: User: fernando.roz; Path: K:\vov_publications\092061\092061-1b_roadway-signals\plan sheets\092061021-EL-DTL.dwg / This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Review of and reliance on this document without written authorization and consent of Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CARRIER CONDUIT SCHEDULE

TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
4	(4) - 2": A1 - A4	9	(9) - 2": A1 - A9
5	(5) - 2": A1 - A5	10	(10) - 2": A1 - A10
6	(6) - 2": A1 - A6		

- REFER TO COM-02 FOR DUCT BANK DETAILS



KEY MAP
NTS

CONSTRUCTION NOTES

- PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN 'L1' OR 'L1' LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION. SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- COORDINATE WITH PROVIDER OF EXISTING WIRELESS EQUIPMENT ON EXISTING POLE TO HAVE THE EQUIPMENT RELOCATED TO NEW SMART POLE.
- CONNECT EXISTING STREET LIGHT CONDUIT HEADING SOUTH INTO PULLBOX; DISCONNECT STREET LIGHT (SG#3, CKT 5) FED FROM EXISTING LIGHT POLE TO THE NORTH AND PULL CABLE SLACK BACK TO PULL BOX. SPLICE NEW CONDUCTORS (SG# 3, CKT 2) TO EXISTING CIRCUIT CABLES HEADING SOUTH.
- STUB, CAP, AND SURVEY CONDUITS AT LIMITS OF CONSTRUCTION.
- PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02. PROVIDE ELECTRICAL CONDUITS ONLY.
- PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 707.
- PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.

MATCH LINE - STA: 257+00 SEE SHEET EL-03

GENERAL SHEET NOTES

- COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
- CONTRACTOR TO PROPOSE PHASING PLAN FOR STREET LIGHT CUTOVER. OPEN PORTIONS OF LAS VEGAS BOULEVARD MUST REMAIN ILLUMINATED EVERYNIGHT. TEMPORARY POLES OR LIGHTS ARE ACCEPTABLE WITH THE PRIOR APPROVAL OF THE COUNTY AND ENGINEER.
- ALL NEW POLES MUST BE FUNCTIONAL AND EXISTING EQUIPMENT REMOVED, INCLUDING 3RD PARTY EQUIPMENT, PRIOR TO REMOVAL OF EXISTING POLE.
- REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
- CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.

CCWRD APPROVAL

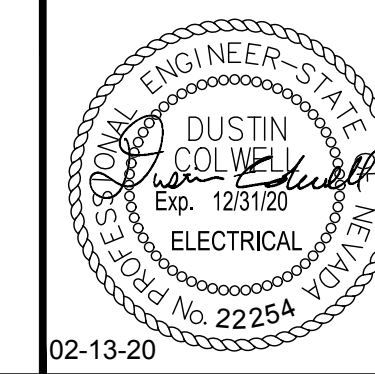
CLARK COUNTY WATER RECLAMATION DISTRICT	DATE
CCWRD PIPES NUMBER IS #19,949	
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.	

APPROVED FOR CONSTRUCTION

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



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



DESIGNED BY: DJC
DRAWN BY: MT
CHECKED BY: DH
DATE: 02-13-2020

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

SCALE	SHEET No
HORIZ: 1"=40'	EL-02
VERT: N/A	SHEET 236 OF 345
FIELD BOOK NONE	L-2210

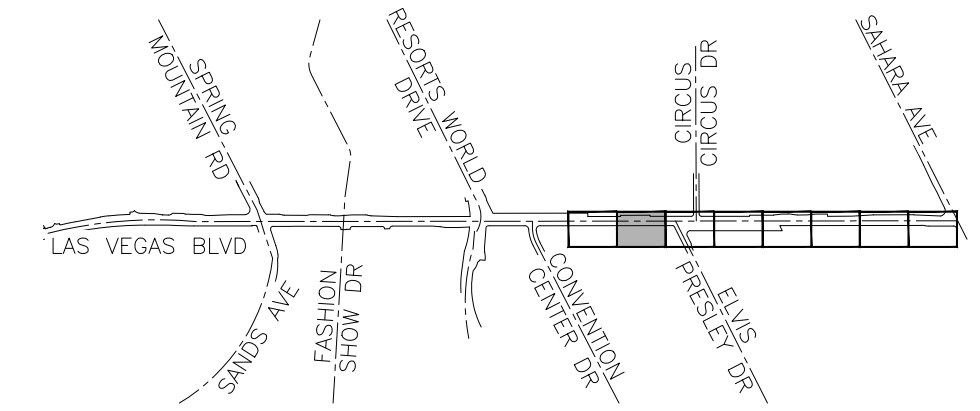
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID No.: 606203-19

CARRIER CONDUIT SCHEDULE

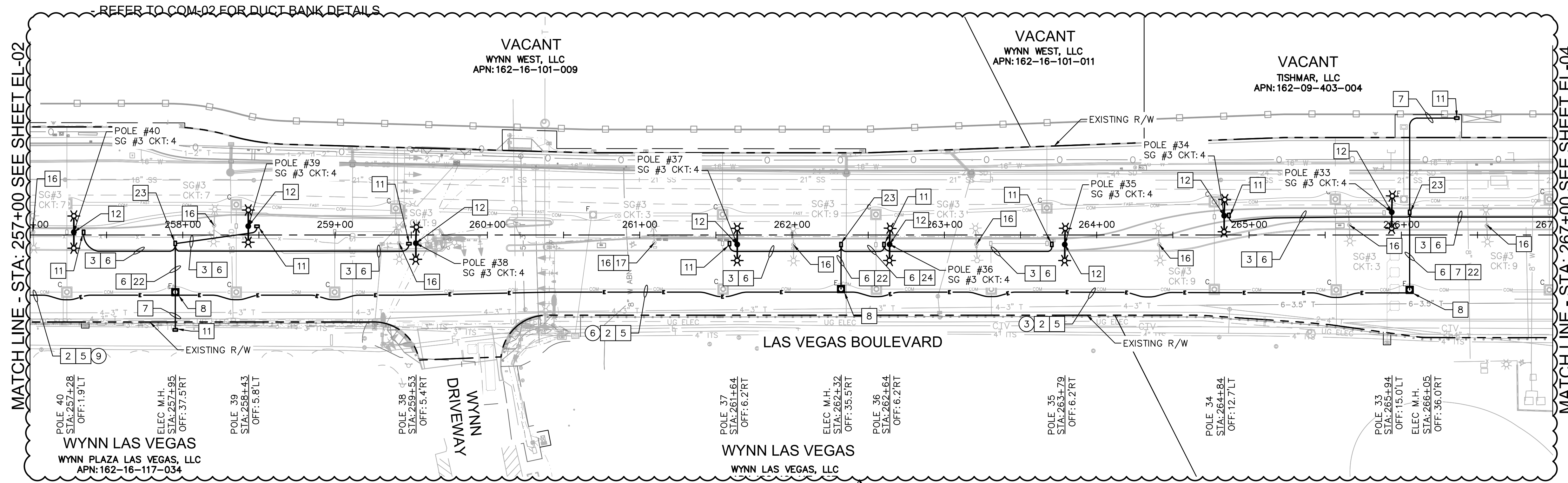
TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
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KEY MAP
NTS

CONSTRUCTION NOTES

- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN "11" CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
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- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
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- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION. SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- 17 COORDINATE WITH PROVIDER OF EXISTING WIRELESS EQUIPMENT ON EXISTING POLE TO HAVE THE EQUIPMENT RELOCATED TO NEW SMART POLE.
- 22 PROVIDE POWER DUCT BANK, SEE DETAIL I ON COM-05.
- 23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.



MATCH LINE - STA: 257+00 SEE SHEET EL-02

MATCH LINE - STA: 267+00 SEE SHEET EL-04

GENERAL SHEET NOTES

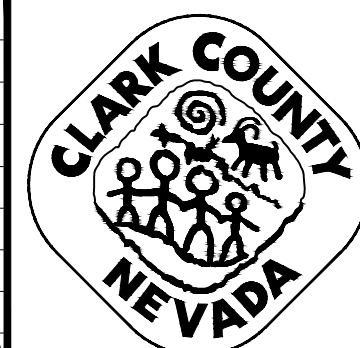
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CCWRD APPROVAL

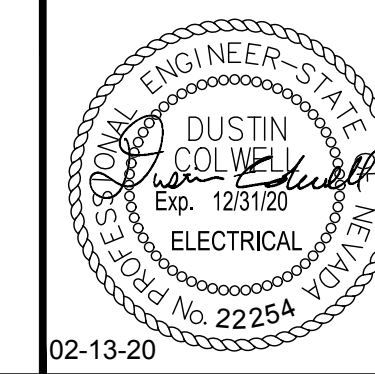
CLARK COUNTY WATER RECLAMATION DISTRICT	DATE
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6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	HORIZ: 1"=40'	SHEET No	EL-03
	VERT: N/A		SHEET 237 OF 345
FIELD BOOK	NONE		L-2210

ISSUED FOR CONSTRUCTION

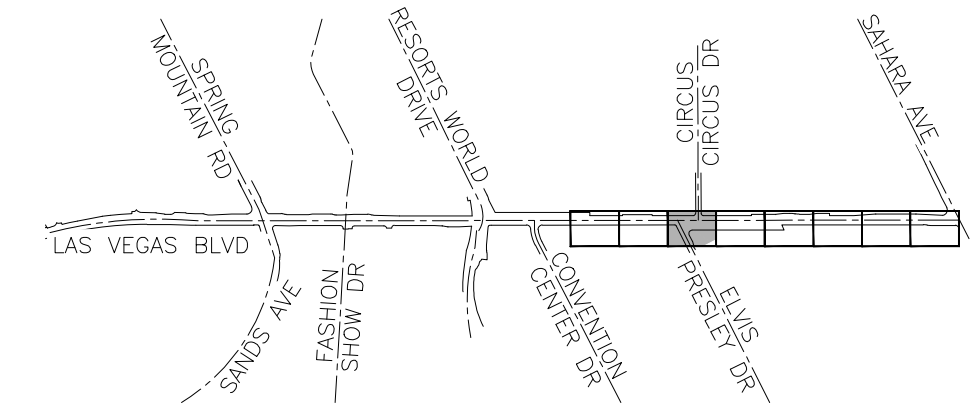
User: Zack.Hardy / Path: C:\Users\zack.hardy\AppData\Local\Temp\12704\092061021-EL.dwg / This document, together with the contract and design presented herein, is an instrument of service. It is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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

CARRIER CONDUIT SCHEDULE

TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
4	(4) - 2": A1 - A4	9	(9) - 2": A1 - A9
5	(5) - 2": A1 - A5	10	(10) - 2": A1 - A10
6	(6) - 2": A1 - A6		

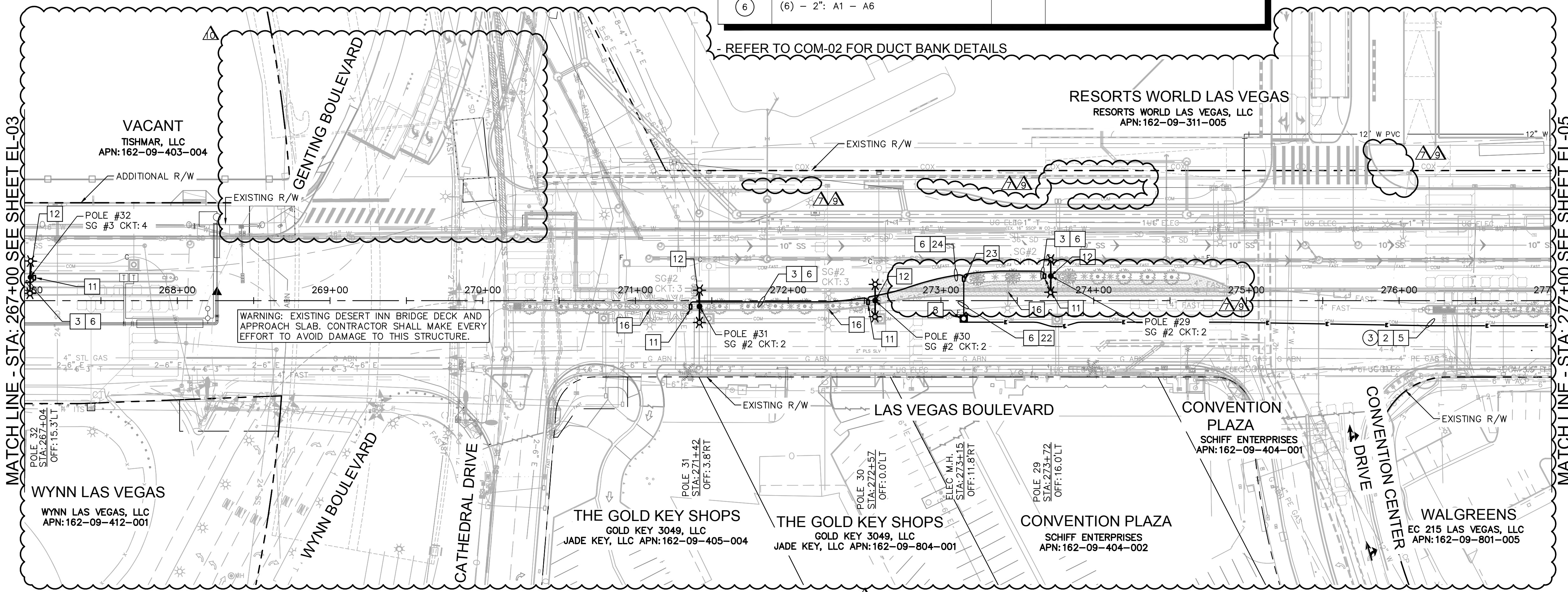
- REFER TO COM-02 FOR DUCT BANK DETAILS



KEY MAP
NTS

CONSTRUCTION NOTES

- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN '11' OR '11' LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 11 PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION. SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- 22 PROVIDE POWER DUCT BANK, SEE DETAIL I ON COM-05.
- 23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.



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

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

WYNN LAS VEGAS
WYNN LAS VEGAS, LLC
APN: 162-09-412-001

THE GOLD KEY SHOPS
GOLD KEY 3049, LLC
JADE KEY, LLC APN: 162-09-405-004

THE GOLD KEY SHOPS
GOLD KEY 3049, LLC
JADE KEY, LLC APN: 162-09-804-001

CONVENTION PLAZA
SCHIFF ENTERPRISES
APN: 162-09-404-002

WALGREENS
EC 215 LAS VEGAS, LLC
APN: 162-09-801-005

CCWRD APPROVAL

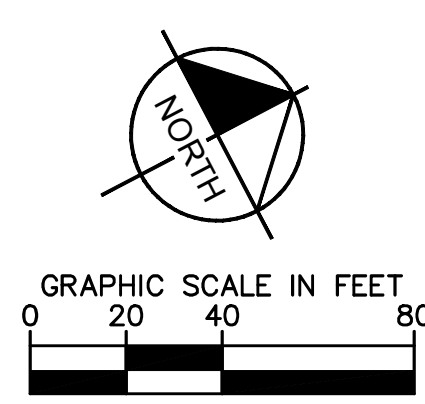
ORIGINALLY SIGNED BY J. ALHWAYEK
CLARK COUNTY WATER RECLAMATION DISTRICT
DATE
CCWRD PIPES NUMBER IS #19,949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

APPROVED FOR CONSTRUCTION

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

GENERAL SHEET NOTES

1. COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
2. CONTRACTOR TO PROPOSE PHASING PLAN FOR STREET LIGHT CUTOVER. OPEN PORTIONS OF LAS VEGAS BOULEVARD MUST REMAIN ILLUMINATED EVERYNIGHT. TEMPORARY POLES OR LIGHTS ARE ACCEPTABLE WITH THE PRIOR APPROVAL OF THE COUNTY AND ENGINEER.
3. ALL NEW POLES MUST BE FUNCTIONAL AND EXISTING EQUIPMENT REMOVED, INCLUDING 3RD PARTY EQUIPMENT, PRIOR TO REMOVAL OF EXISTING POLE.
4. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
5. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.



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

know what's below
Call before you dig

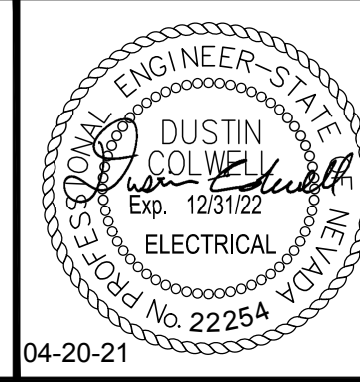
UNION PACIFIC RAILROAD
Call Before You Dig
1-800-336-9193

Call Before you UnderGround
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	REVISED PER REVISION NO. 3	02/13/2020
4	RWLW RELATED IMPROVEMENT REV	09/04/2020
5	RWLW RELATED IMPROVEMENT REV	12/30/2020
6	LVB-GENTING INTERSECTION REVISION	04/20/2021
	APPROVED	



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



DESIGNED BY: DJC
DRAWN BY: MT
CHECKED BY: DH
DATE: 04-20-2021

Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119
Tel. No. (702) 862-5600

SCALE	SHEET NO
HORIZ: 1"=40'	EL-04
VERT: N/A	SHEET 238 OF 345
FIELD BOOK NONE	L-2210

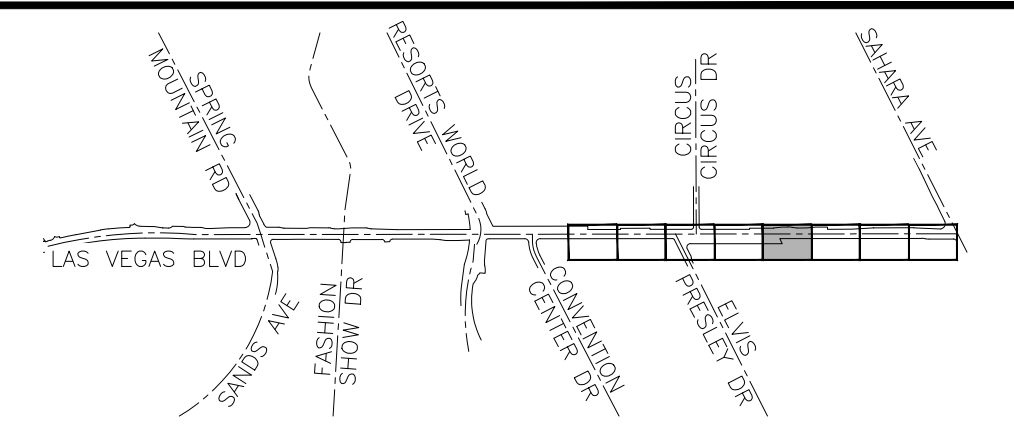
ISSUED FOR CONSTRUCTION

User: Daniel Wolf
Path: K:\LV\Public\Trans\02061_LC\021-LVB-Roadway-Signal\CAD\Plan\02061021-EL.dwg
This document, together with the concepts and designs presented herein, is an instrument of service, it is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID NO.: 606203-19

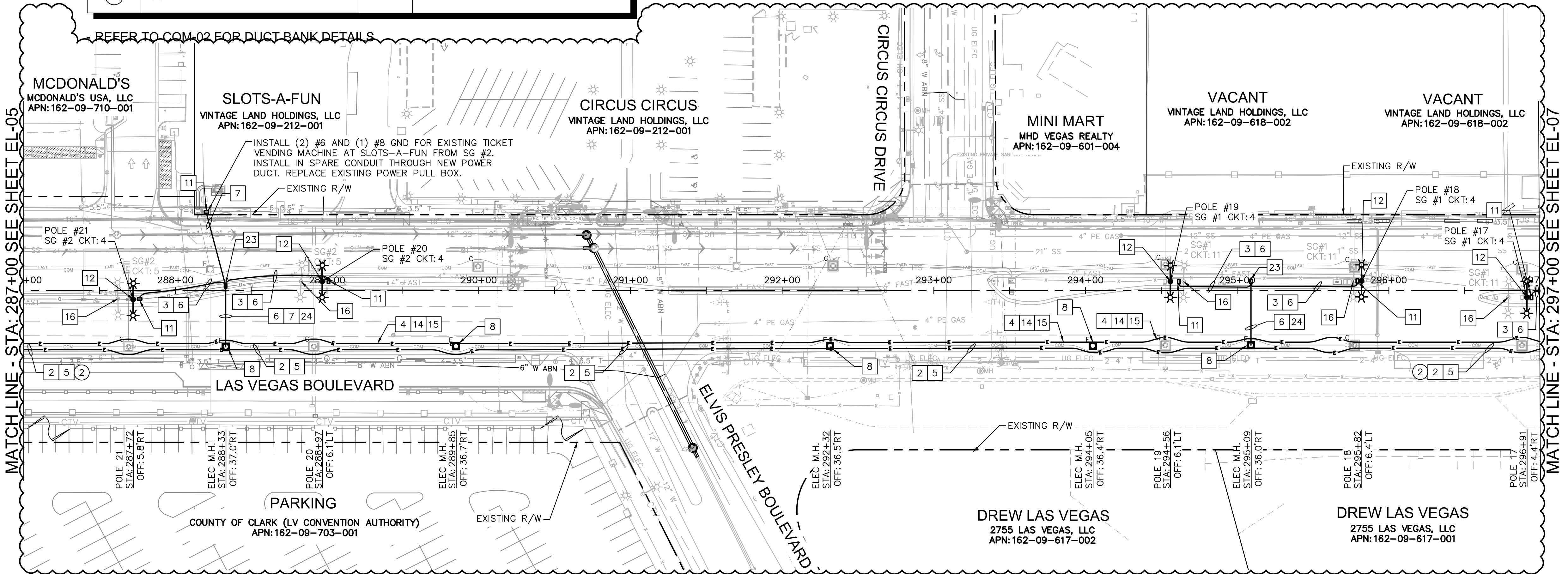
CARRIER CONDUIT SCHEDULE

TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
4	(4) - 2": A1 - A4	9	(9) - 2": A1 - A9
5	(5) - 2": A1 - A5	10	(10) - 2": A1 - A10
6	(6) - 2": A1 - A6		



CONSTRUCTION NOTES

- PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- PROVIDE POWER LATERALS, SEE DETAIL F ON COM-04.
- PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN '11' OR '1' LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW STREET LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
- PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW LANDSCAPE LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
- REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION. SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 707.
- PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.



MATCH LINE - STA: 287+00 SEE SHEET EL-05

MATCH LINE - STA: 297+00 SEE SHEET EL-07

GENERAL SHEET NOTES

- COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
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- ALL NEW POLES MUST BE FUNCTIONAL AND EXISTING EQUIPMENT REMOVED, INCLUDING 3RD PARTY EQUIPMENT, PRIOR TO REMOVAL OF EXISTING POLE.
- REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
- CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.

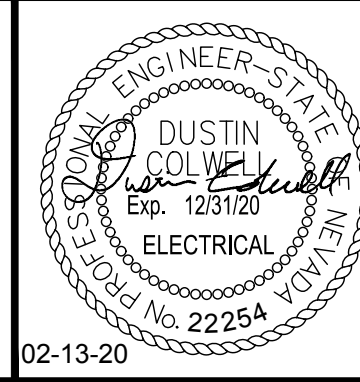
APPROVED FOR CONSTRUCTION

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.

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



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



DESIGNED BY: DJC
 DRAWN BY: MT
 CHECKED BY: DH
 DATE: 02-13-2020
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: 1"=40'	EL-06
VERT: N/A	SHEET 240 OF 345
FIELD BOOK NONE	L-2210

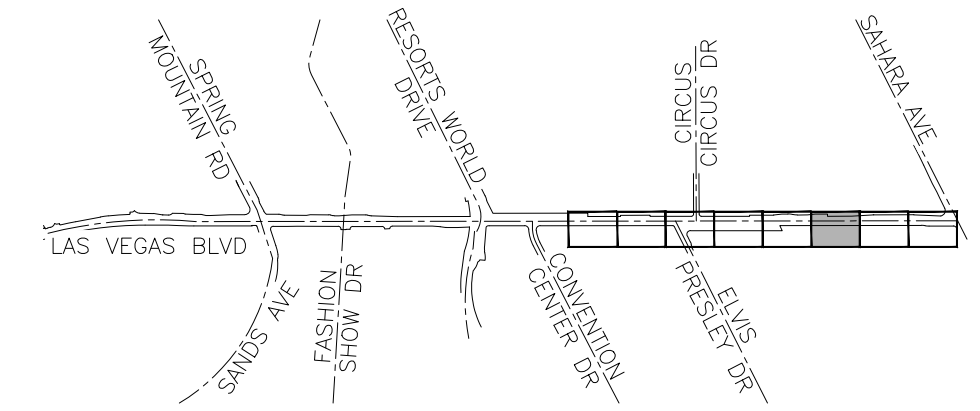
ISSUED FOR CONSTRUCTION

User: Zack.Hardy / Path: C:\Users\zack.hardy\AppData\Local\Temp\AcPublish_12704\93261021-EL.dwg / This document, together with the computer and design presented herein, is an instrument of service. It is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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

CARRIER CONDUIT SCHEDULE

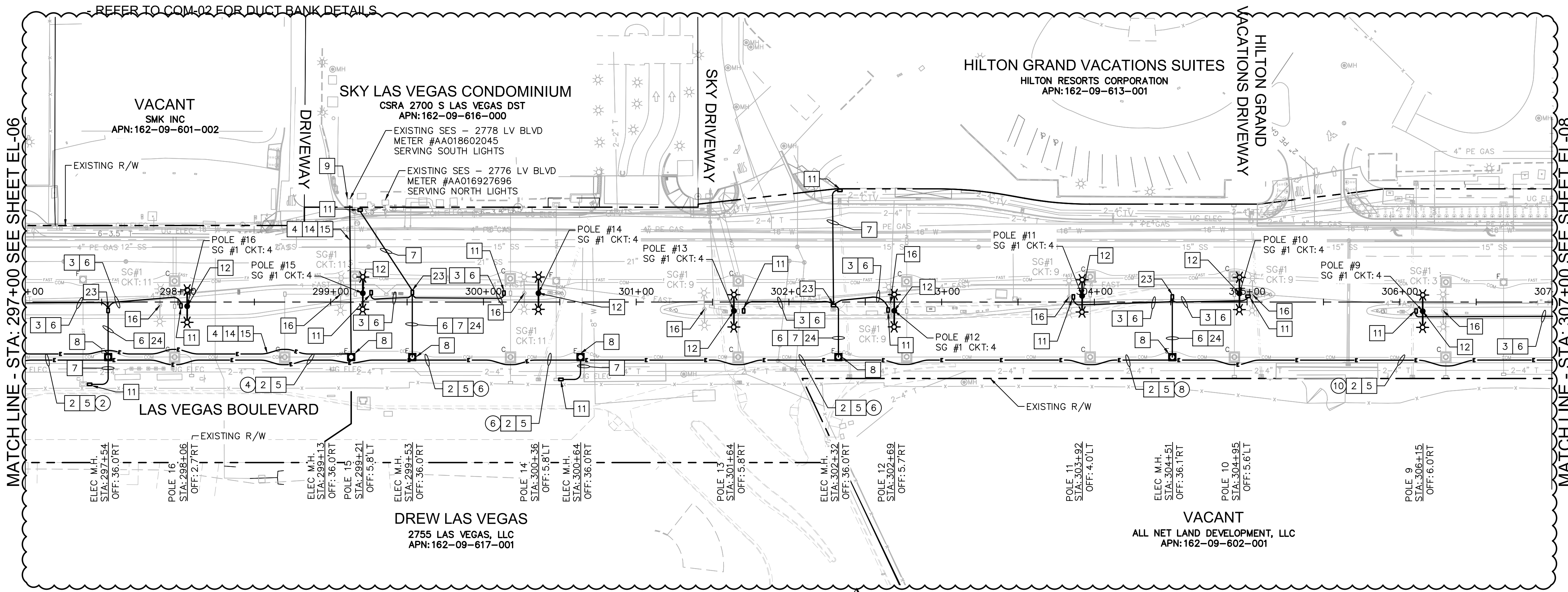
TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
4	(4) - 2": A1 - A4	9	(9) - 2": A1 - A9
5	(5) - 2": A1 - A5	10	(10) - 2": A1 - A10
6	(6) - 2": A1 - A6		



KEY MAP
NTS

CONSTRUCTION NOTES

- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 4 PROVIDE POWER LATERALS, SEE DETAIL F ON COM-04.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN 'L11' OR 'L1' LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 7 PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 9 CONNECT TO EXISTING METERS AT 2778 LV BLVD. COORDINATE AND CONNECT EXISTING LANDSCAPE LIGHTING AND STREET LIGHT METERS TO THE PROPER CORRESPONDING NEW SWITCHGEAR.
- 11 PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 14 PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW STREET LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
- 15 PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW LANDSCAPE LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION, SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- 23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.



MATCH LINE - STA: 297+00 SEE SHEET EL-06

MATCH LINE - STA: 307+00 SEE SHEET EL-08

GENERAL SHEET NOTES

1. COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
2. CONTRACTOR TO PROPOSE PHASING PLAN FOR STREET LIGHT CUTOVER. OPEN PORTIONS OF LAS VEGAS BOULEVARD MUST REMAIN ILLUMINATED EVERYNIGHT. TEMPORARY POLES OR LIGHTS ARE ACCEPTABLE WITH THE PRIOR APPROVAL OF THE COUNTY AND ENGINEER.
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4. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
5. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.

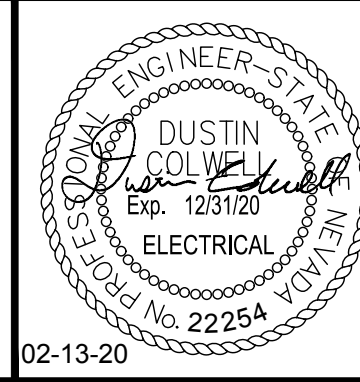
APPROVED FOR CONSTRUCTION

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.

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



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



DESIGNED BY: DJC
DRAWN BY: MT
CHECKED BY: DH
DATE: 02-13-2020
Kimley»Horn
6871 Las Vegas Boulevard South, Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	HORIZ: 1"=40'	SHEET No	EL-07
	VERT: N/A		
FIELD BOOK	NONE		
			SHEET 241 OF 345
			L-2210

ISSUED FOR CONSTRUCTION

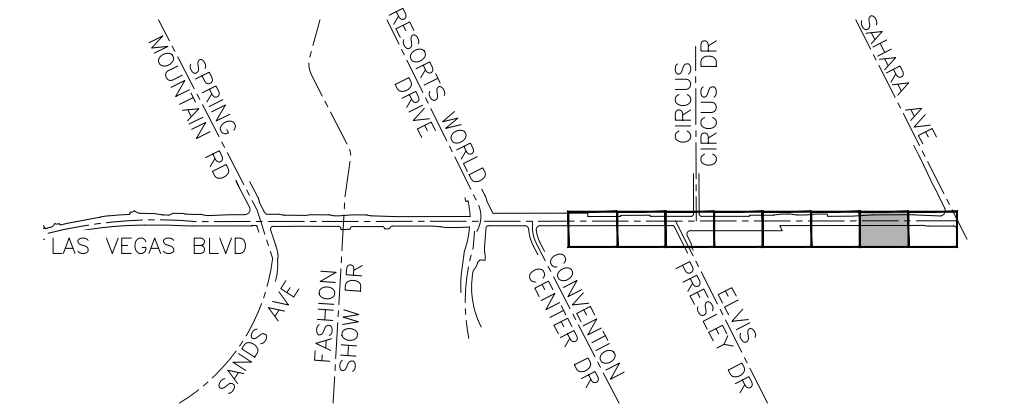
User: Zack.Hardy / Path: C:\Users\zack.hardy\AppData\Local\Temp\AcPublish_12704\09261021-EL.dwg / This document, together with the computer and design presented herein, is an instrument of service. It is intended only for the specific purpose and client for which it was prepared. Reuse of any improper reference on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

BID No.: 606203-19

CARRIER CONDUIT SCHEDULE

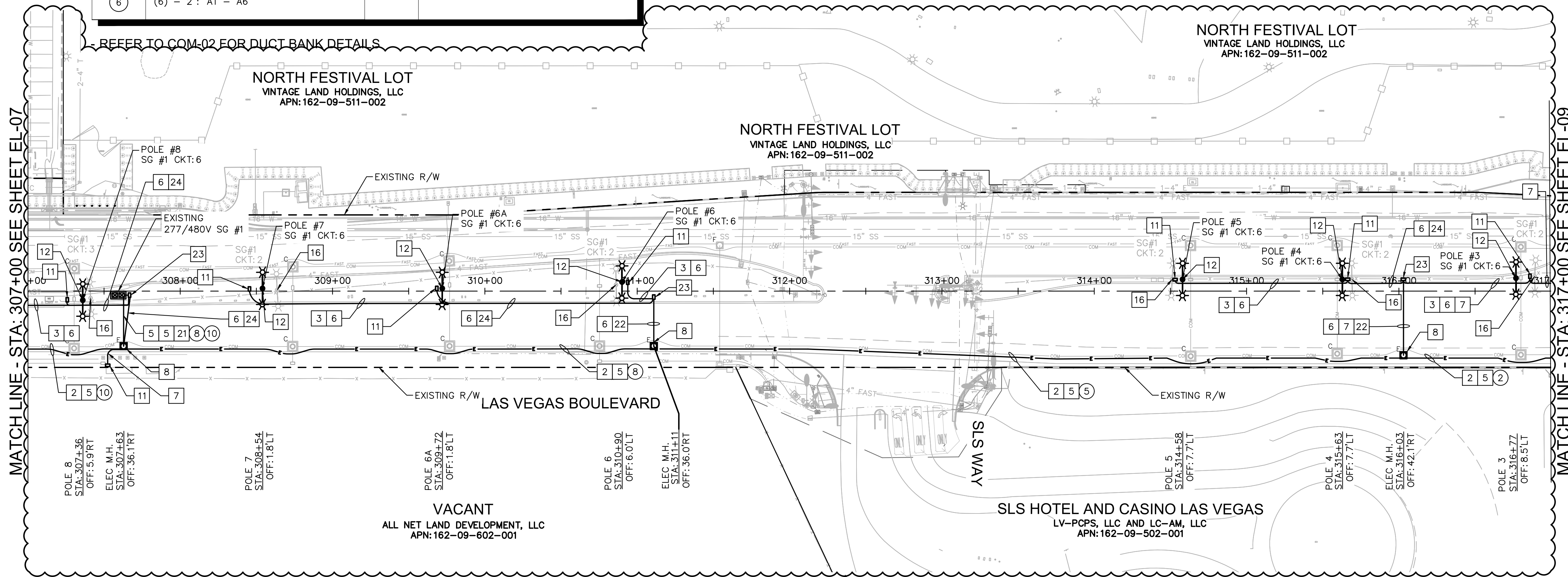
TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
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KEY MAP
NTS

CONSTRUCTION NOTES

- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN 'L1' OR 'L1' LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 7 PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 11 PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION. SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- 21 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02. PROVIDE ELECTRICAL CONDUITS ONLY.
- 22 PROVIDE POWER DUCT BANK, SEE DETAIL I ON COM-05.
- 23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.



MATCHLINE - STA: 307+00 SEE SHEET EL-07

MATCHLINE - STA: 317+00 SEE SHEET EL-09

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

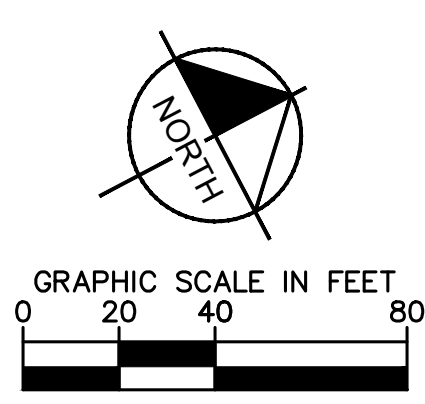
GENERAL SHEET NOTES

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5. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.

APPROVED FOR CONSTRUCTION

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

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.



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811
know what's below
Call before you dig

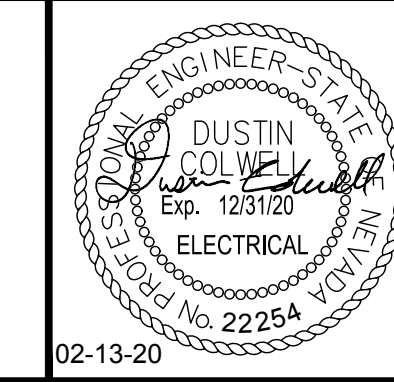
UNION PACIFIC RAILROAD
Call Before You Dig
1-800-336-9193

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
3	REVISED PER REVISION NO. 3	02/13/2020



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



DESIGNED BY: DJC
DRAWN BY: MT
CHECKED BY: DH
DATE: 02-13-2020

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

SCALE	HORIZ: 1"=40'	SHEET No	EL-08
	VERT: N/A		
FIELD BOOK	NONE		
			SHEET 242 OF 345
			L-2210

ISSUED FOR CONSTRUCTION

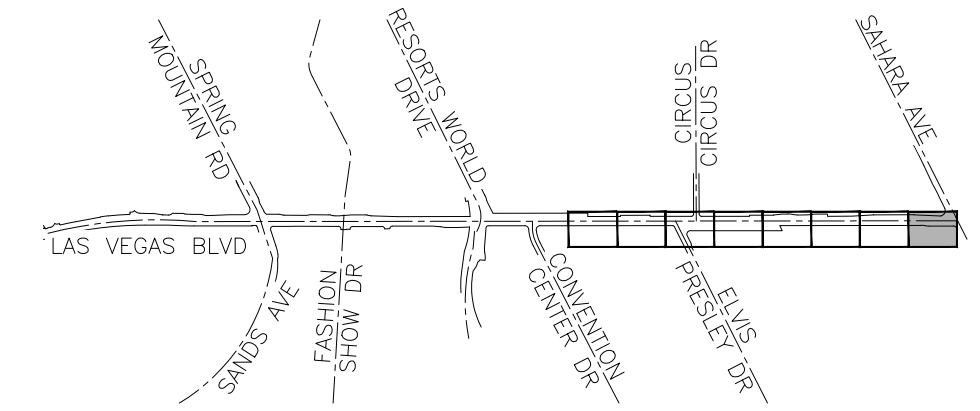
User: Zack.Hardy / Path: C:\Users\zack.hardy\AppData\Local\Temp\12704\092061021-EL.dwg / This document, together with the computer and design presented herein, is an instrument of service. It is intended only for the specific purpose and client for which it was prepared. Release of any improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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

CARRIER CONDUIT SCHEDULE

TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
②	(2) - 2": A1 - A2	⑦	(7) - 2": A1 - A7
③	(3) - 2": A1 - A3	⑧	(8) - 2": A1 - A8
④	(4) - 2": A1 - A4	⑨	(9) - 2": A1 - A9
⑤	(5) - 2": A1 - A5	⑩	(10) - 2": A1 - A10
⑥	(6) - 2": A1 - A6		

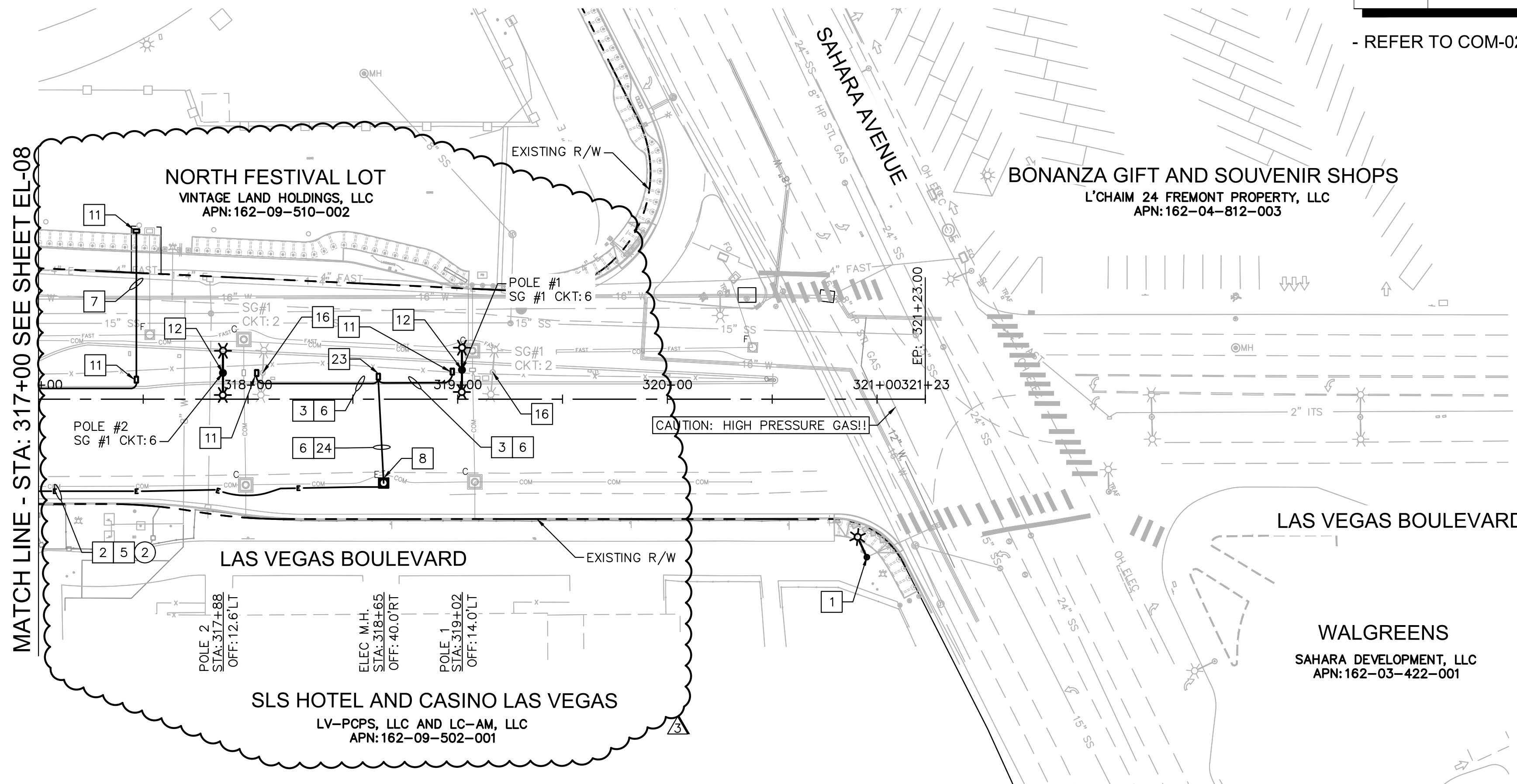
- REFER TO COM-02 FOR DUCT BANK DETAILS



KEY MAP
NTS

CONSTRUCTION NOTES

- 1 INSTALL NEW 15' MAST ARM WITH TYPE B LIGHT ASSEMBLY ON EXISTING TRAFFIC POLE.
- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN "11" CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN "L11" OR "L1" LATERAL CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 7 PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 11 PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION, SALVAGE LUMINAIRE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- 23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.



MATCH LINE - STA: 317+00 SEE SHEET EL-08

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

GENERAL SHEET NOTES

1. COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
2. CONTRACTOR TO PROPOSE PHASING PLAN FOR STREET LIGHT CUTOVER. OPEN PORTIONS OF LAS VEGAS BOULEVARD MUST REMAIN ILLUMINATED EVERYNIGHT. TEMPORARY POLES OR LIGHTS ARE ACCEPTABLE WITH THE PRIOR APPROVAL OF THE COUNTY AND ENGINEER.
3. ALL NEW POLES MUST BE FUNCTIONAL AND EXISTING EQUIPMENT REMOVED, INCLUDING 3RD PARTY EQUIPMENT, PRIOR TO REMOVAL OF EXISTING POLE.
4. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
5. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.

APPROVED FOR CONSTRUCTION

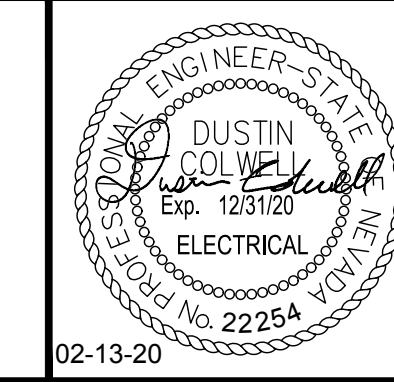
CLARK COUNTY WATER RECLAMATION DISTRICT
CCWRD PIPES NUMBER IS #19,949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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

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	02/10/2020



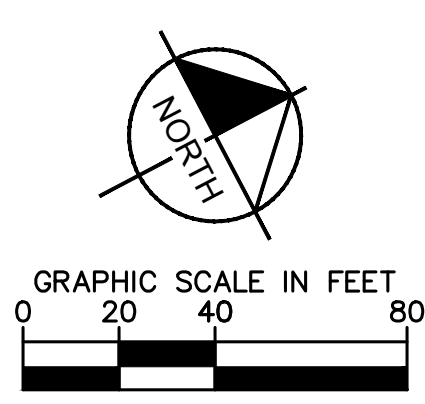
LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
ELECTRICAL PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: DJC
DRAWN BY: MT
CHECKED BY: DH
DATE: 02-13-2020

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

SCALE	HORIZ: 1"=40'	SHEET No	EL-09
	VERT: N/A		
FIELD BOOK	NONE		
			SHEET 243 OF 345
			L-2210



811
know what's below
Call before you dig

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

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

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

User: Zack.Hardy
Path: C:\Users\zack.hardy\AppData\Local\Temp\AcPublish_12704\092061021-EL.dwg
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS
BID No.: 606203-19

ISSUED FOR CONSTRUCTION

User: fernando.rosz
 Path: K:\rev_publications\092081\02-EL-11-16_roadway-elgna\CAD\plansets\09208102-EL-DTL.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. Review of and/or 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.

PANEL: Existing Switch Gear #1 (Existing Loads)

VOLTAGE: 277/480 PANEL BUS: 400 AMPS
 PHASE WIRES: 3ø, 4W MAIN: 225A BREAKER
 SCRR (AMPS): 65,000
 SOURCE: UTILITY METER #AA020461273

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
SPARE	201	1	8				2	201	2100	STREET LIGHTS NORTH
STREET LIGHTS SOUTH	600	201	3	2			4	201		SPARE
SPARE	201	5	0				0	6	201	SPARE
SPARE	201	7	0				8	201		SPARE
STREET LIGHTS SOUTH	1200	201	9	4			10	201		SPARE
STREET LIGHTS SOUTH	1800	201	11	6	12		201			SPARE
SPARE	201	13	0				14	201		SPARE
SPARE	201	15	0				16	201		SPARE
SPARE	201	17	0				0	18	201	SPARE
SPARE	201	19	0				20	201		SPARE
SPARE	201	21	0				22	201		SPARE
SPARE	201	23	0				0	24	201	SPARE
SPARE	201	25	0				26	201		SPARE
SPARE	201	27	0				28	201		SPARE
SPARE	201	29	0				0	30	201	SPARE
SPACE	31	0					32			SPACE
SPACE	33	0					34			SPACE
SPACE	35	0					36			SPACE
SPACE	37	0					38			SPACE
SPACE	39	0					40			SPACE
SPACE	41	0					42			SPACE
TRANSFORMER	301									
TOTALS	7.8	6.5	6.5							AMPS

LOAD CALCULATIONS:
 SUBTOTAL (KVA): 6
 +25% PER NEC (KVA): 0
 TOTAL (KVA): 6 @ 480V, 3ø = 6.9 AMPS

NOTES:
 (1) REMOVE PANEL DESCRIPTION FROM PANEL AFTER EXISTING LIGHT POLES AND CIRCUIT WIRES HAVE BEEN REMOVED AND MARK BREAKER POSITION AS "SPARE". PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN CABINET.
 (2) PROVIDE CONTACTORS FOR NEW STREET LIGHTING CIRCUITS AND MODIFY EXISTING PHOTO CONTROL CIRCUIT.

PANEL: Existing Switch Gear #2 (Existing Loads)

VOLTAGE: 277/480 PANEL BUS: 400 AMPS
 PHASE WIRES: 3ø, 4W MAIN: 225A BREAKER
 SCRR (AMPS): 35,000
 SOURCE: UTILITY METER #AA016927700

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
STREET LIGHTS	1200	201	1	4			2			SPACE
STREET LIGHTS	1500	201	3	5			4			SPACE
STREET LIGHTS	1500	201	5	5	6					SPACE
SPACE			7	0			8			SPACE
SPACE			9	0			10			SPACE
SPACE			11	0			0	12		SPACE
SPACE			13	0			14			SPACE
SPACE			15	0			16			SPACE
SPACE			17	0			0	18		SPACE
SPACE			19	0			20			SPACE
SPACE			21	0			22			SPACE
SPACE			23	0			0	24		SPACE
SPACE			25	0			26	201		SPACE
SPACE			27	0			28	201		SPACE
SPACE			29	0			0	30	201	SPACE
SPACE			31	0			32	201		SPACE
SPACE			33	0			34	201		SPACE
SPACE			35	0			0	36	201	SPACE
SPACE			37	0			38	201		SPACE
SPACE			39	0			0	40	201	SPACE
TOTALS	4.3	5.4	5.4							AMPS

LOAD CALCULATIONS:
 SUBTOTAL (KVA): 4200
 +25% PER NEC (KVA): 1050
 TOTAL (KVA): 5250 @ 480V, 3ø = 6.4 AMPS

NOTES:
 (1) REMOVE PANEL DESCRIPTION FROM PANEL AFTER EXISTING LIGHT POLES AND CIRCUIT WIRES HAVE BEEN REMOVED AND MARK BREAKER POSITION AS "SPARE". PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN CABINET.
 (2) PROVIDE CONTACTORS FOR NEW STREET LIGHTING CIRCUITS AND MODIFY EXISTING PHOTO CONTROL CIRCUIT.

PANEL: Existing Switch Gear #3 (Existing Loads)

VOLTAGE: 277/480 PANEL BUS: 400 AMPS
 PHASE WIRES: 3ø, 4W MAIN: 250A BREAKER
 SCRR (AMPS): 35,000
 SOURCE: UTILITY METER #AA016927699

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
SPACE							1	0		SPACE
STREET LIGHTS	900	201	3	3			4			SPACE
STREET LIGHTS	1800	201	5	6	6					SPACE
STREET LIGHTS	1800	201	7	2			8			SPACE
STREET LIGHTS	1200	201	9	4			10			SPACE
STREET LIGHTS	201	11					0	12		SPACE
SPACE			13	0			14			SPACE
SPACE			15	0			16			SPACE
SPACE			17	0			0	18		SPACE
SPACE			19	0			20			SPACE
SPACE			21	0			22			SPACE
SPACE			23	0			0	24		SPACE
SPACE			25	0			26	201		SPACE
SPACE			27	0			28	201		SPACE
SPACE			29	0			0	30	201	SPACE
SPACE			31	0			32	201		SPACE
SPACE			33	0			34	201		SPACE
SPACE			35	0			0	36	201	SPACE
SPACE			37	0			38	201		SPACE
SPACE			39	0			0	40	201	SPACE
SPACE			41	0			42	201		SPACE
TOTALS	2.2	7.8	6.5							AMPS

LOAD CALCULATIONS:
 SUBTOTAL (KVA): 4500
 +25% PER NEC (KVA): 1125
 TOTAL (KVA): 5625 @ 480V, 3ø = 6.8 AMPS

NOTES:
 (1) REMOVE PANEL DESCRIPTION FROM PANEL AFTER EXISTING LIGHT POLES AND CIRCUIT WIRES HAVE BEEN REMOVED AND MARK BREAKER POSITION AS "SPARE". PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN CABINET.
 (2) PROVIDE CONTACTORS FOR NEW STREET LIGHTING CIRCUITS AND MODIFY EXISTING PHOTO CONTROL CIRCUIT.

1 EXISTING PANEL SCHEDULES
 EL-11

PANEL: Existing Switch Gear #1 (New Loads)

VOLTAGE: 277/480 PANEL BUS: 400 AMPS
 PHASE WIRES: 3ø, 4W MAIN: 225A BREAKER
 SCRR (AMPS): 65,000
 SOURCE: UTILITY METER #AA020461273

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
CELL TOWER POLE #1 (FUTURE)	301	1	0				2	201		SPARE
CELL TOWER POLE #2 (FUTURE)	301	3	0	12			4	201	3300	NEW STREET LIGHTS SOUTH
CELL TOWER POLE #3 (FUTURE)	301	5	0				6	201	2400	NEW STREET LIGHTS NORTH
CELL TOWER POLE #4 (FUTURE)	301	7	0				8	301		CELL TOWER POLE #9 (FUTURE)
CELL TOWER POLE #5 (FUTURE)	301	9	0				10	301		CELL TOWER POLE #10 (FUTURE)
CELL TOWER POLE #6 (FUTURE)	301	11	0				0	12	301	CELL TOWER POLE #11 (FUTURE)
CELL TOWER POLE #7 (FUTURE)	301	13	0				14	301		CELL TOWER POLE #12 (FUTURE)
CELL TOWER POLE #8 (FUTURE)	301	15	0				0	16	301	CELL TOWER POLE #13 (FUTURE)
SPACE	201	17	0				18	301		CELL TOWER POLE #14 (FUTURE)
SPACE	201	19	0				20	301		CELL TOWER POLE #15 (FUTURE)
SPACE	201	21	0				0	22	301	CELL TOWER POLE #16 (FUTURE)
SPACE	201	23	0				24	301		CELL TOWER POLE #17 (FUTURE)
SPACE	201	25	0				26	301		CELL TOWER POLE #18 (FUTURE)
SPACE	201	27	0				28	301		CELL TOWER POLE #19 (FUTURE)
SPACE	201	29	0				0	30	201	SPACE
SPACE	31	0					32			SPACE
SPACE	33	0					34			SPACE
SPACE	35	0					36			SPACE
SPACE	37	0					38			SPACE
SPACE	39	0					40			SPACE
SPACE	41	0					42			SPACE
TRANSFORMER	301									
TOTALS	0.0	11.9	8.7							AMPS

LOAD CALCULATIONS:
 SUBTOTAL (KVA): 6
 +25% PER NEC (KVA): 0
 TOTAL (KVA): 6 @ 480V, 3ø = 6.9 AMPS

NOTES:
 (1) REMOVE PANEL DESCRIPTION FROM PANEL AFTER EXISTING LIGHT POLES AND CIRCUIT WIRES HAVE BEEN REMOVED AND MARK BREAKER POSITION AS "SPARE". PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN CABINET.
 (2) PROVIDE CONTACTORS FOR NEW STREET LIGHTING CIRCUITS AND MODIFY EXISTING PHOTO CONTROL CIRCUIT.
 PROVIDE NEW CIRCUIT BREAKERS FOR FUTURE CELL TOWER LOADS

PANEL: New Switch Gear #2 (New Loads)

VOLTAGE: 277/480 PANEL BUS: 400 AMPS
 PHASE WIRES: 3ø, 4W MAIN: 225A BREAKER
 SCRR (AMPS): 35,000
 SOURCE: UTILITY METER #AA016927700

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION	
CELL TOWER POLE #21 (FUTURE)	301	1	4				2	201	1200	NEW STREET LIGHTS SOUTH	
CELL TOWER POLE #21 (FUTURE)	301	3	9				4	201	2400	NEW STREET LIGHTS NORTH	
CELL TOWER POLE #22 (FUTURE)	301	5	0				2	6	201	600	CONTROL
CELL TOWER POLE #23 (FUTURE)	301	7	0				8	301		CELL TOWER POLE #27 (FUTURE)	
CELL TOWER POLE #24 (FUTURE)	301	9	0				10	301		CELL TOWER POLE #28 (FUTURE)	
CELL TOWER POLE #25 (FUTURE)	301	11	0				0	12	301	CELL TOWER POLE #29 (FUTURE)	
CELL TOWER POLE #26 (FUTURE)	301	13	0				14	301		CELL TOWER POLE #30 (FUTURE)	
TICKET VENDING MACHINE	201	15	0				16	301		CELL TOWER POLE #31 (FUTURE)	
SPACE	201	17	0				0	18	201	SPACE	
SPACE	19	0					20			SPACE	
SPACE	21	0					22			SPACE	
SPACE	23	0					0	24		SPACE	
SPACE	25	0					26			SPACE	
SPACE	27	0					28			SPACE	
SPACE	29	0					0	30		SPACE	
SPACE	31	0					32			SPACE	
SPACE	33	0					34			SPACE	
SPACE	35	0					0	36		SPACE	
SPACE	37	0					38			SPACE	
SPACE	39	0					40			SPACE	
SPACE	41	0					42			SPACE	
TOTALS	4.3	8.7	2.2							AMPS	

LOAD CALCULATIONS:
 SUBTOTAL (KVA): 4200
 +25% PER NEC (KVA): 1050
 TOTAL (KVA): 5250 @ 480V, 3ø = 6.4 AMPS

NOTES:
 (1) PROVIDE PHOTOCCELL, PHOTO CONTROL CIRCUIT, TEST TOGGLE SWITCH, AND CONTACTORS FOR STREET LIGHTING CIRCUITS.

PANEL: Existing Switch Gear #3 (New Loads)

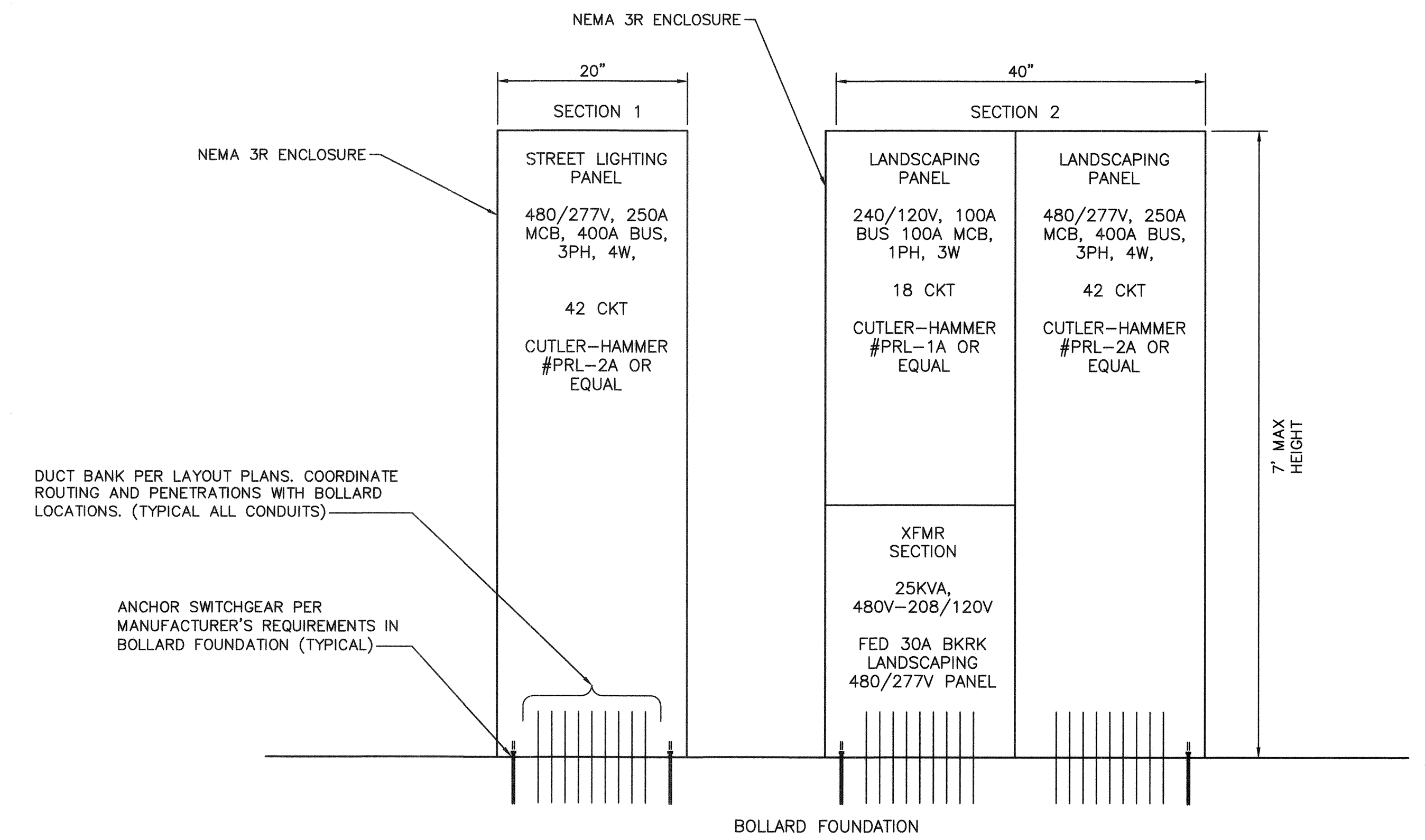
VOLTAGE: 277/480 PANEL BUS: 400 AMPS
 PHASE WIRES: 3ø, 4W MAIN: 250A BREAKER
 SCRR (AMPS): 35,000
 SOURCE: UTILITY METER #AA016927699

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
CELL TOWER POLE #32 (FUTURE)	301	1	6				2	201	1800	NEW STREET LIGHTS SOUTH
CELL TOWER POLE #33 (FUTURE)	301	3	10				4	201	2700	NEW STREET LIGHTS NORTH
CELL TOWER POLE #34 (FUTURE)	301	5	0				6	301		CELL TOWER POLE #40 (FUTURE)
CELL TOWER POLE #35 (FUTURE)	301	7	0				8	301		CELL TOWER POLE #41 (FUTURE)
CELL TOWER POLE #36 (FUTURE)	301	9	0				10	301		CELL TOWER POLE #42 (FUTURE)
CELL TOWER POLE #37 (FUTURE)	301	11	0				0	12	301	CELL TOWER POLE #43 (FUTURE)
CELL TOWER POLE #38 (FUTURE)	301	13	0				14	301		CELL TOWER POLE #44 (FUTURE)
CONTACTOR	600	301	15	2			16	301		CELL TOWER POLE #45 (FUTURE)
SPACE	301	17	0				18	301		CELL TOWER POLE #46 (FUTURE)
SPACE	19	0					20	201		TICKET VENDING MACHINE
SPACE	21	0					22			SPACE
SPACE	23	0					24			SPACE
SPACE	25	0					26			SPACE
SPACE	27	0					28	201		SPACE
SPACE	29	0					0	30	201	SPACE
SPACE	31	0					32	201		SPACE
SPACE	33	0					34	201		SPACE
SPACE	35	0					0	36	201	SPACE
SPACE	37	0					38	201		SPACE
SPACE	39	0					40	201		SPACE
SPACE	41	0					42	201		SPACE
TOTALS	6.5	11.9	0.0							AMPS

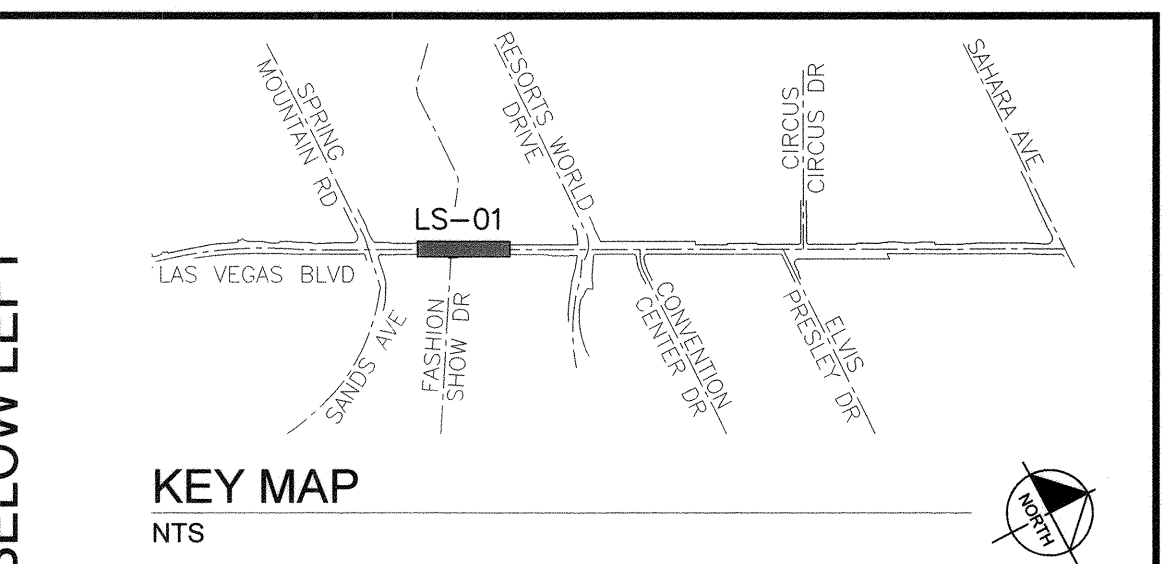
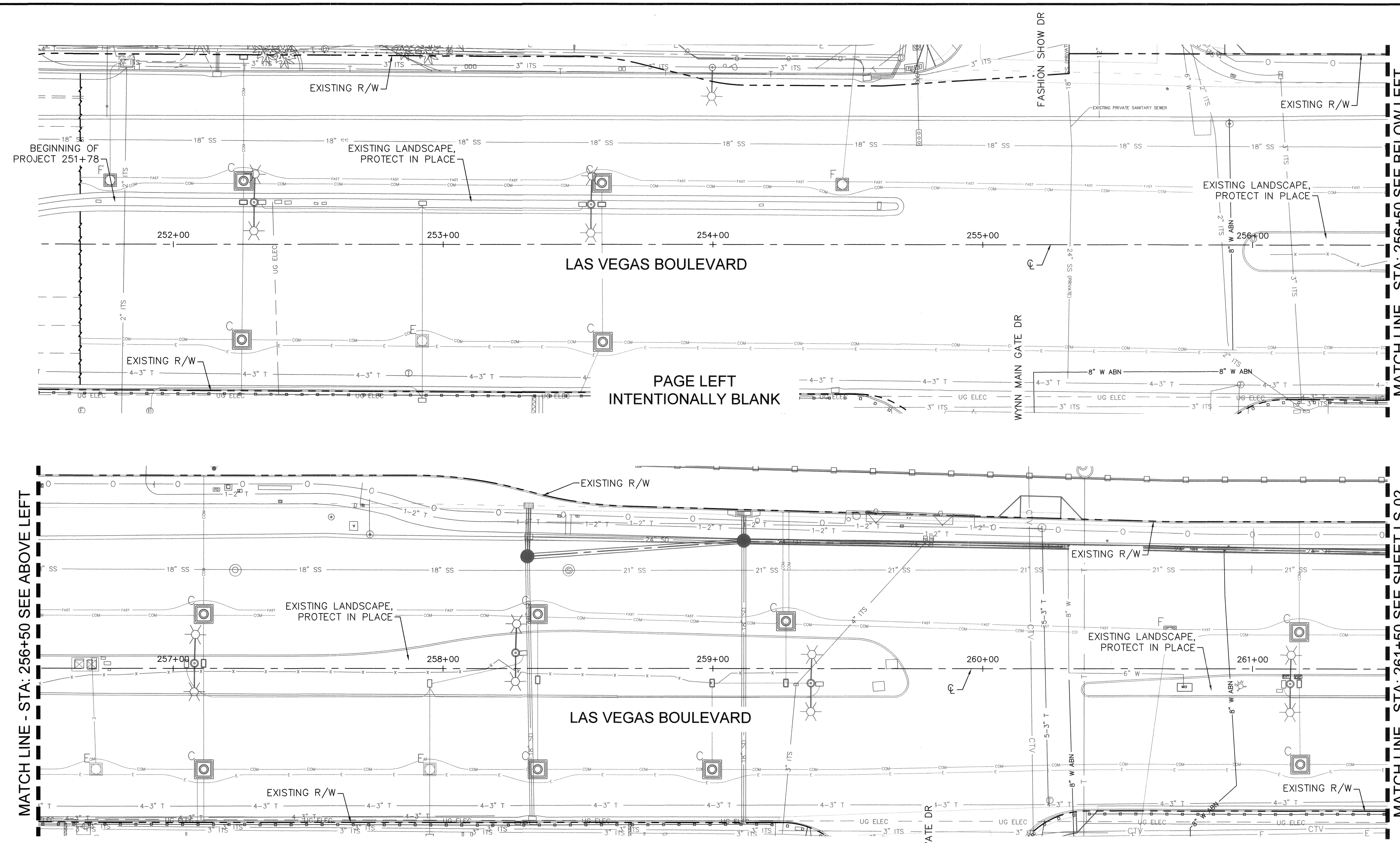
LOAD CALCULATIONS:
 SUBTOTAL (KVA): 3100
 +25% PER NEC (KVA): 1275
 TOTAL (KVA): 4375 @ 480V, 3ø = 7.7 AMPS

NOTES:
 (1) REMOVE PANEL DESCRIPTION FROM PANEL AFTER EXISTING LIGHT POLES AND CIRCUIT WIRES HAVE BEEN REMOVED AND MARK BREAKER POSITION AS "SPARE". PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN CABINET.
 (2) PROVIDE CONTACTORS FOR NEW STREET LIGHTING CIRCUITS AND MODIFY EXISTING PHOTO CONTROL CIRCUIT.
 PROVIDE NEW CIRCUIT BREAKERS FOR FUTURE CELL TOWER LOADS

2 PROPOSED PANEL SCHEDULES
 EL-11



User: fernando.roses
 Path: K:\Irrigation\092061\cc\021-160_roadway-signal\CAD\Plansheets\Landscape\Phase 1_LLS.dwg /
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LANDSCAPE SCHEDULE

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	
Tree to be Removed	Varies	
Phoenix dactylifera 'Medjool' / Date Palm - Male	18' Clear Trunk	
Chamaerops humilis / Mediterranean Fan Palm	24" Box, 1 1/2' Cal. Min.	
Propus velutina / Native Mesquite	24" Box, 7' Ht. Min., 1 1/2' Cal. Min.	
Washingtonia robusta / Washingtonia Palm	18' Clear Trunk	
SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS		
BOTANICAL NAME / COMMON NAME	SIZE	
Hesperaloe parviflora / Red Yucca	5 Gal.	
Myrtus communis 'compacta' / Dwarf Myrtle	5 Gal.	
Nandina domestica / Nandina Bamboo	5 Gal.	
Raphiolepis indica / Indian Hawthorn	5 Gal.	
Yucca recurvifolia / Yucca Pendula	5 Gal.	
INERT MATERIALS		
DESCRIPTION		
Annual Plants	6" O.C.	
Artificial Turf		
Decomposed Granite		
Match Existing		

MATCH LINE - STA: 256+50 SEE ABOVE LEFT

MATCH LINE - STA: 256+50 SEE BELOW LEFT

MATCH LINE - STA: 261+50 SEE SHEET LS-02

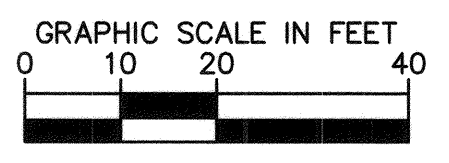
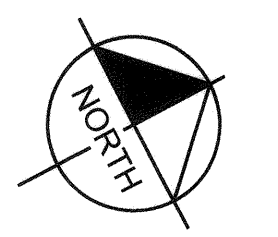
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CCWRD APPROVAL

11-25-19 DATE

CLARK COUNTY WATER RECLAMATION DISTRICT

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.



811
know what's below
Call before you dig

SAFETY ALERT
Call Before You Overhead
1-702-227-2829

UNION PACIFIC RAILROAD
Call Before You Dig
1-800-536-9193

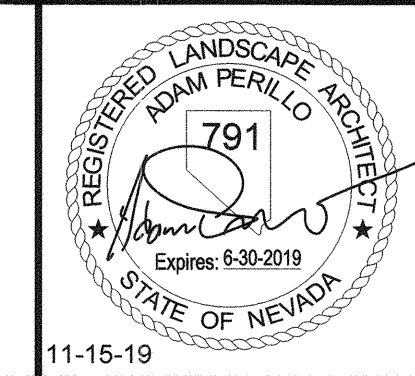
UnderGround
Call Before You Dig
1-702-432-5300

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

APPROVED



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



DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 11-15-2019

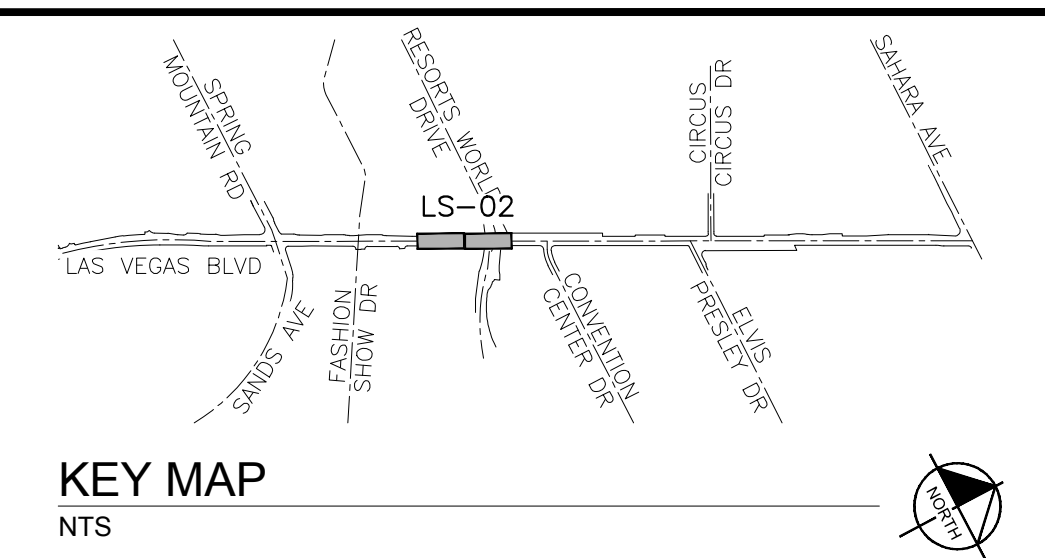
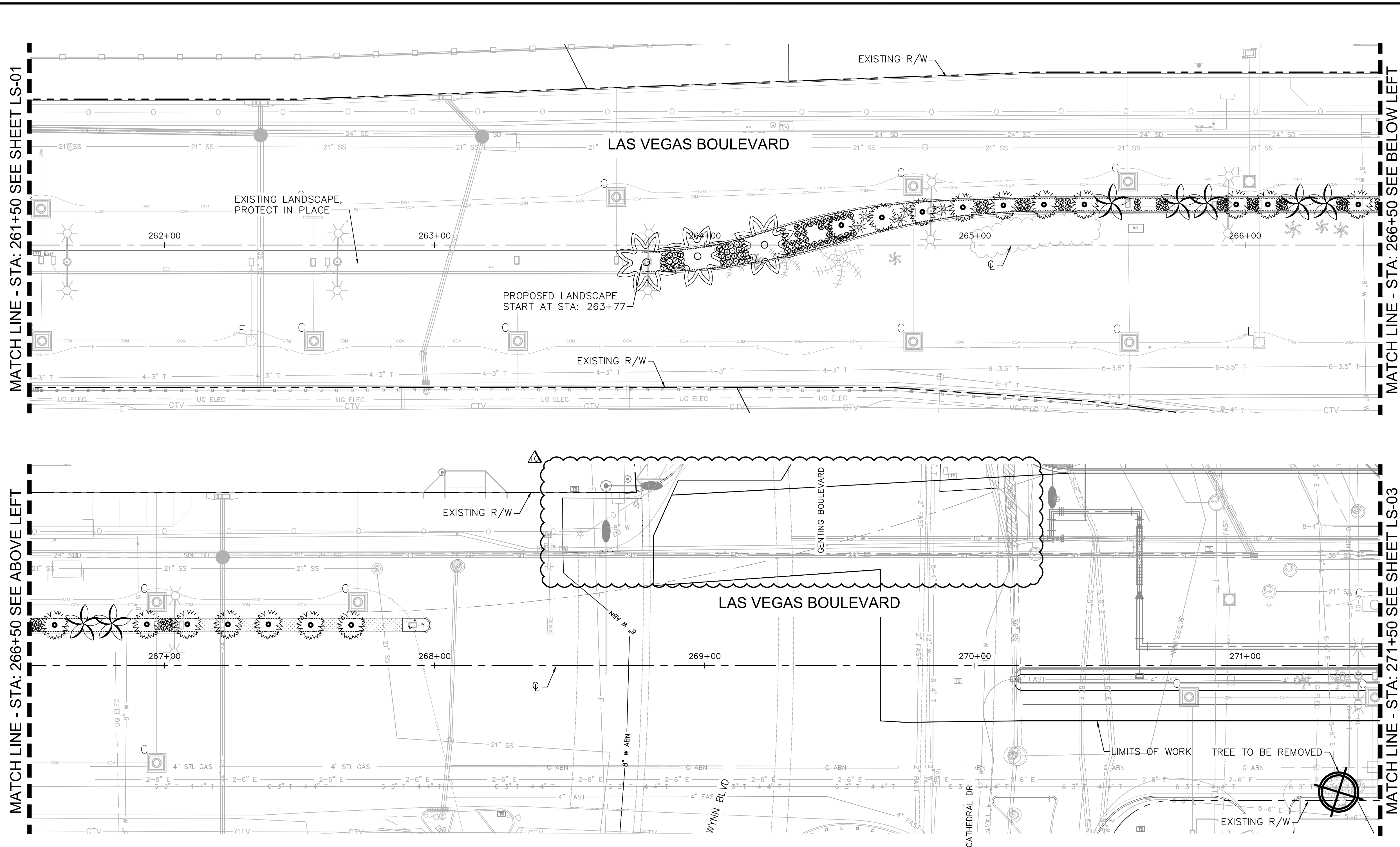
Kimley Horn
6871 Las Vegas Boulevard South Suite 320
Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE		SHEET No
HORIZ:	1" = 20'	LS-01
VERT:	N/A	
FIELD BOOK	NONE	SHEET 247 OF 345
		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\Landscape\Phase 1_LLS.dwg /
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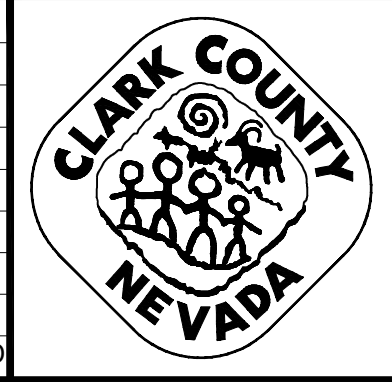


LANDSCAPE SCHEDULE

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	
Tree to be Removed	Varies	
Phoenix dactylifera 'Medjool' Date Palm - Male	18' Clear Trunk	
Chamaerops humilis Mediterranean Fan Palm	24" Box, 1 1/2" Cal. Min.	
Propus velutina Native Mesquite	24" Box, 7' Ht. Min., 1 1/2" Cal. Min.	
Washingtonia robusta Washingtonia Palm	18' Clear Trunk	
SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS		
BOTANICAL NAME / COMMON NAME	SIZE	
Hesperaloe parviflora Red Yucca	5 Gal.	
Myrtus communis 'compacta' Dwarf Myrtle	5 Gal.	
Nandina domestica Nandina Bamboo	5 Gal.	
Raphiolepis indica Indian Hawthorn	5 Gal.	
Yucca recurvifolia Yucca Pendula	5 Gal.	
INERT MATERIALS		
DESCRIPTION		
Annual Plants 6" O.C.		
Artificial Turf		
Decomposed Granite		
Match Existing		

REVISIONS

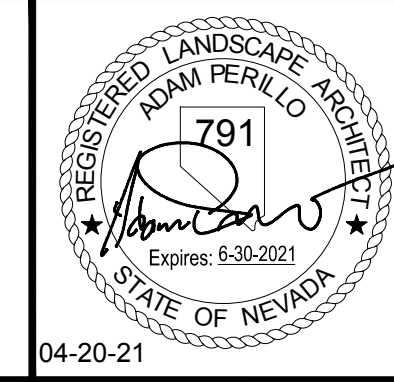
NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	LVB-GENTING INTERSECTION REVISION	04/20/2021



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

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
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.



DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 04-20-2021

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

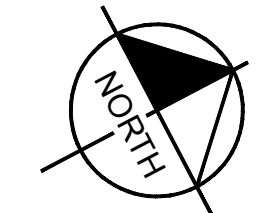
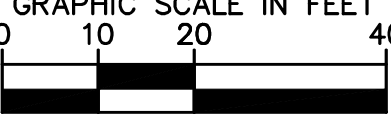
SCALE	SHEET No
HORIZ: 1" = 20'	LS-02
VERT: N/A	
FIELD BOOK NONE	SHEET 248 OF 345
	L-2210

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

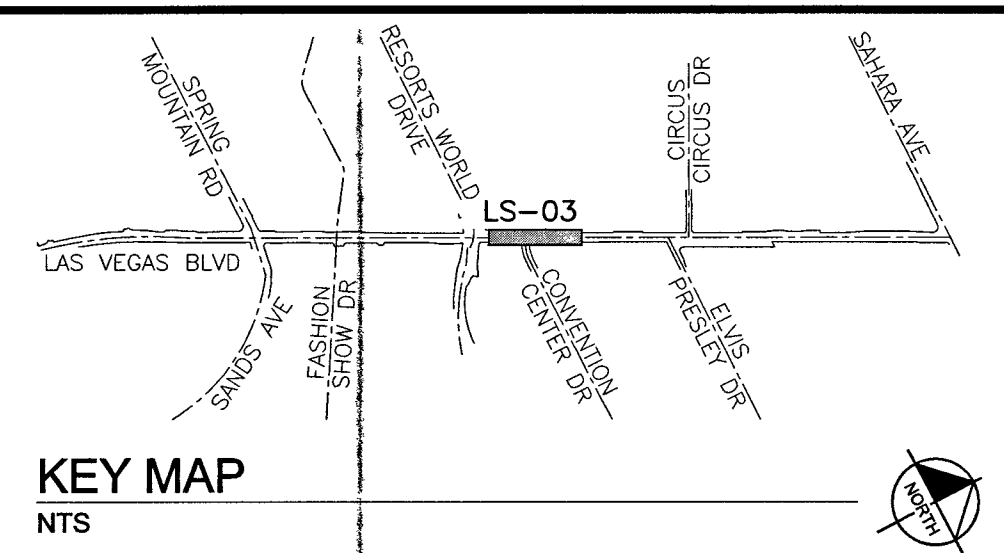
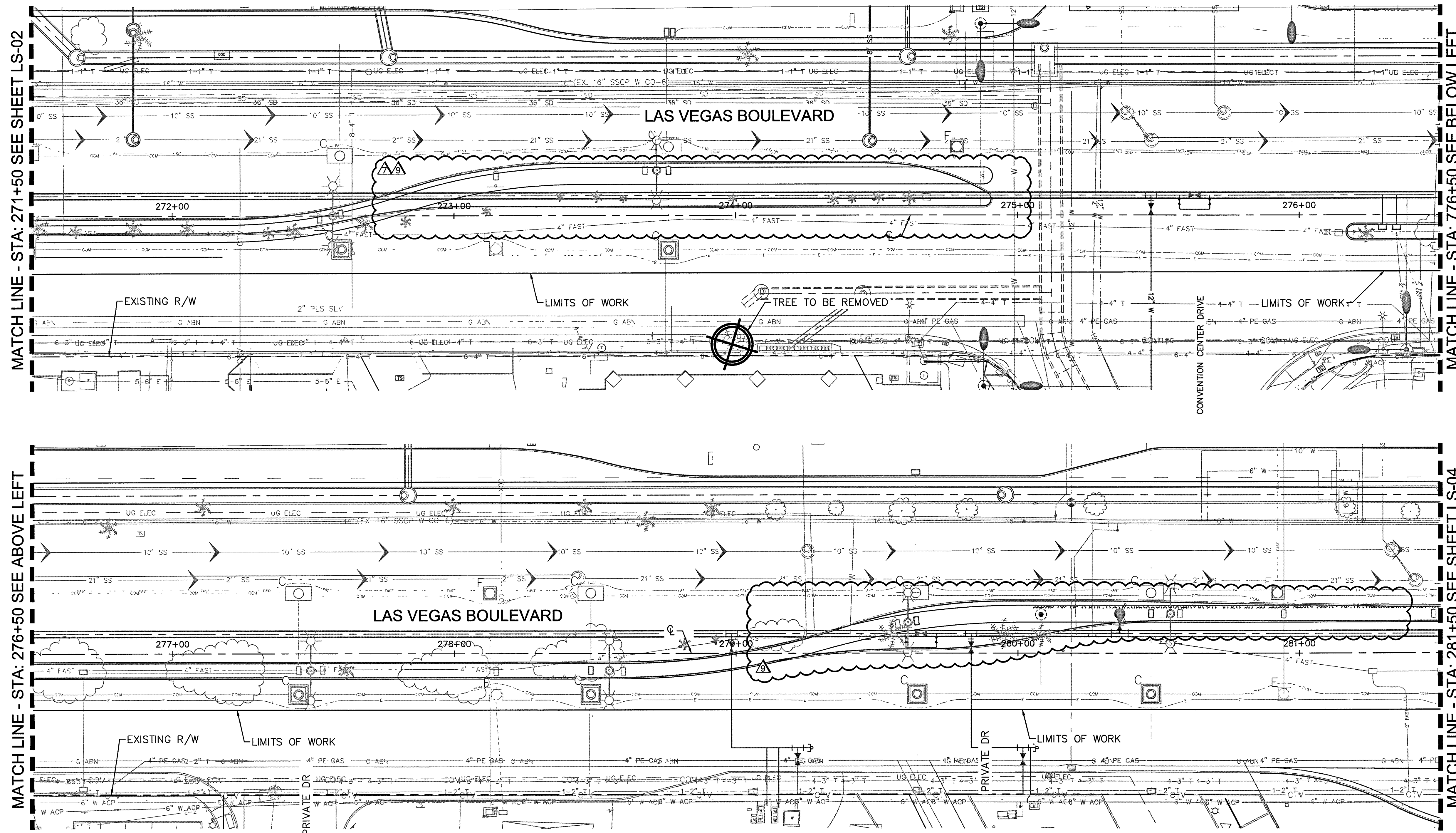
UnderGround
1-702-432-5300
PRESENT AND WORKING STATUS OF UNDERGROUND



ISSUED FOR CONSTRUCTION

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

User: fernando.roaz
 Path: K:\LAV_Public\Trans\092001_LVB_Roadway-Signal\CAD\PlanSheets\Landscape\Phase 1_LIS.dwg /
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LANDSCAPE SCHEDULE

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	
Tree to be Removed	Varies	
Phoenix dactylifera 'Medjool' Date Palm - Male	18' Clear Trunk	
Chamaerops humilis Mediterranean Fan Palm	24" Box, 1 1/2" Cal. Min.	
Propus velutina Native Mesquite	24" Box, 7' Ht. Min., 1 1/2" Cal. Min.	
Washingtonia robusta Washingtonia Palm	18' Clear Trunk	
SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS		
BOTANICAL NAME / COMMON NAME	SIZE	
Hesperaloe parviflora Red Yucca	5 Gal.	
Myrtus communis 'compacta' Dwarf Myrtle	5 Gal.	
Nandina domestica Nandina Bamboo	5 Gal.	
Rhapiolepis indica Indian Hawthorn	5 Gal.	
Yucca recurvifolia Yucca Pendula	5 Gal.	
INERT MATERIALS		
DESCRIPTION		
Annual Plants		
6" O.C.		
Artificial Turf		
Decomposed Granite		
Match Existing		

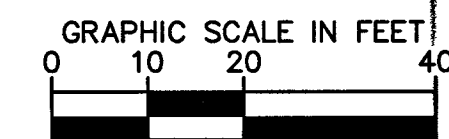
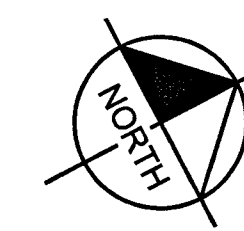
MATCH LINE - STA: 276+50 SEE ABOVE LEFT

MATCH LINE - STA: 776+50 SEE BELOW LEFT

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK
 CLARK COUNTY WATER RECLAMATION DISTRICT DATE _____
 CCWRD PIPES NUMBER IS #13.949
 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.



811 SAFETY ALERT
 Know what's below
 Call before you dig
 1-702-227-2929

UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9133

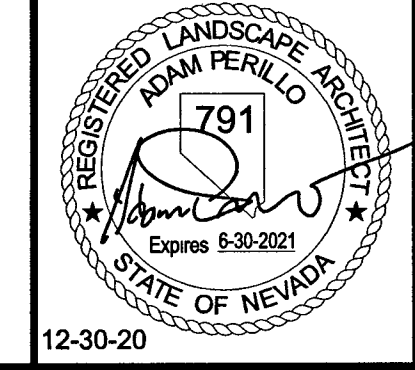
UnderGround
 Call Before You Dig
 1-702-432-5300

NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
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
LANDSCAPE PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: CAL
 DRAWN BY: CAL
 CHECKED BY: ACP
 DATE: 12-30-2020

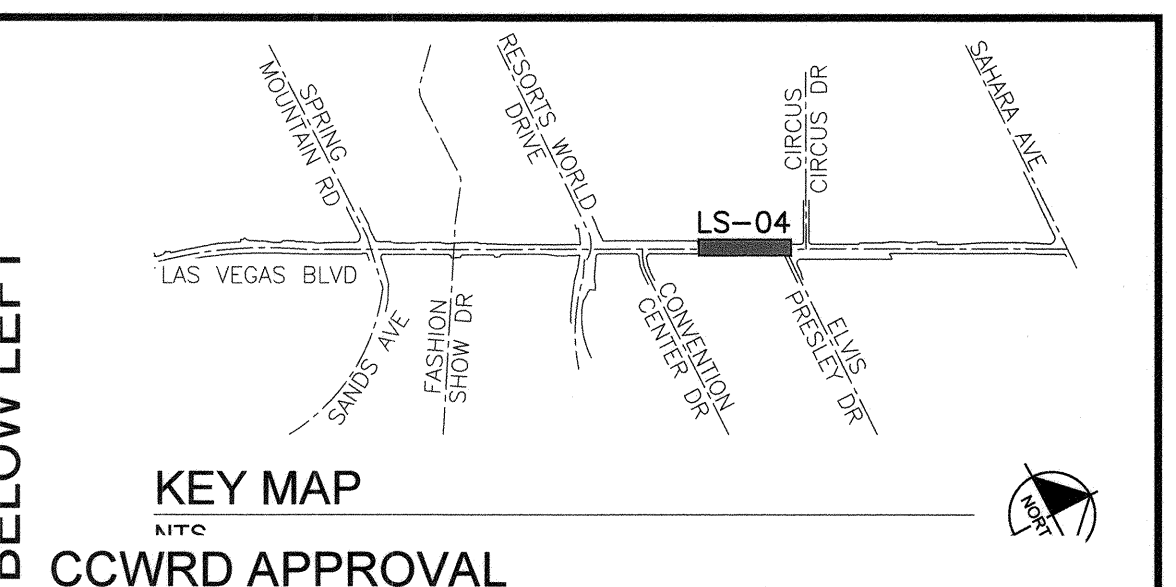
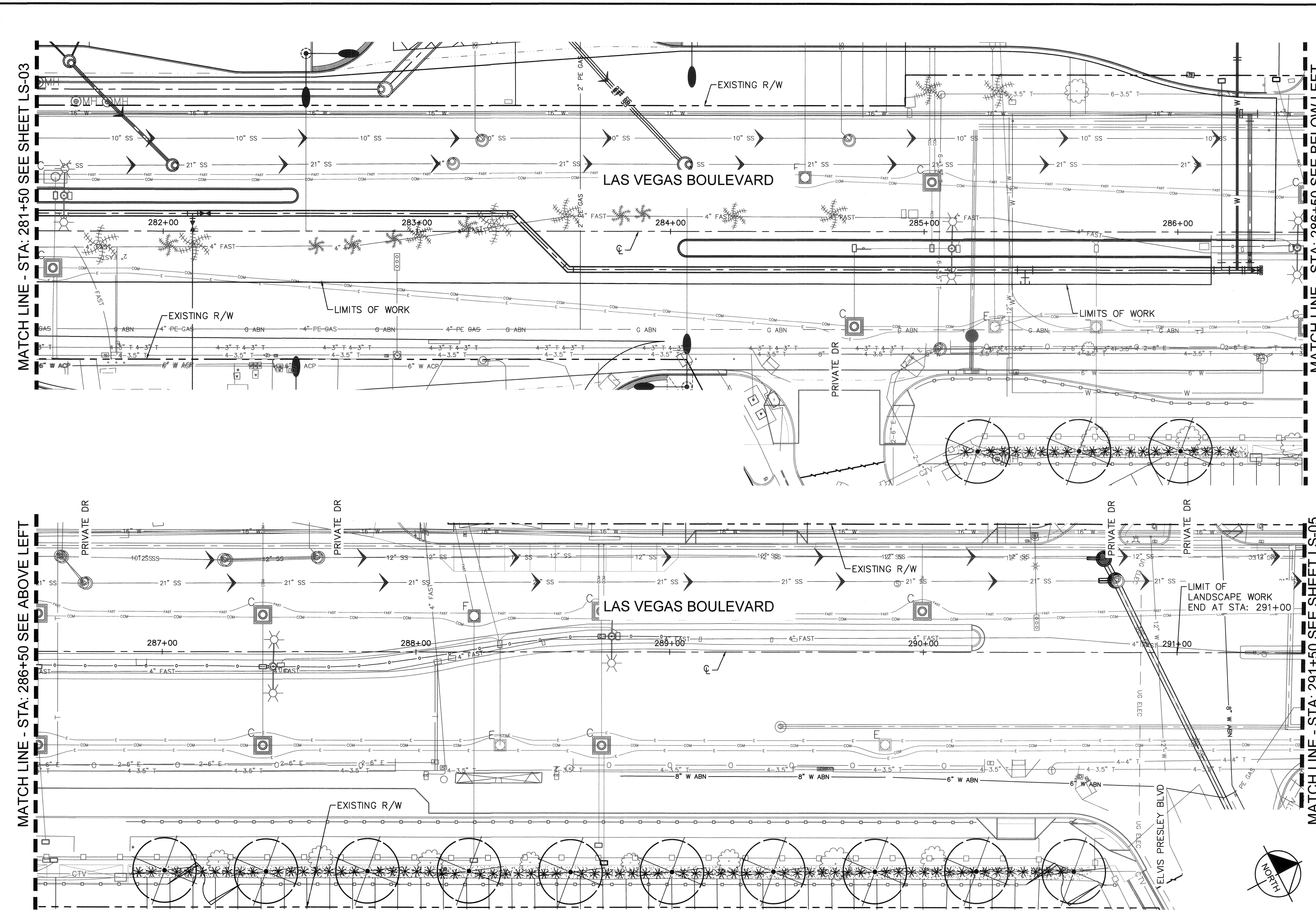
Kimley Horn
 6571 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89115 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 20'	LS-03
VERT: N/A	SHEET 249 OF 345
FIELD BOOK NONE	L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

User: fernando.raz
 Path: K:\uv_publications\092061_cc_021_mv_roadway-signal\CAD\plansheets\Landscape\Phase 1\LS.dwg /
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KEY MAP
 ATTC
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.

LANDSCAPE SCHEDULE

TREES

BOTANICAL NAME / COMMON NAME	SIZE
Tree to be Removed	Varies
Phoenix dactylifera 'Medjool' Date Palm - Male	18' Clear Trunk
Chamaerops humilis Mediterranean Fan Palm	24" Box, 1 1/2" Cal. Min.
Propus velutina Native Mesquite	24" Box, 7' Ht. Min., 1 1/2" Cal. Min.
Washingtonia robusta Washingtonia Palm	18' Clear Trunk

SHRUBS, GRASSES, ACCENTS & GROUNDCOVERS

BOTANICAL NAME / COMMON NAME	SIZE
Hesperaloe parviflora Red Yucca	5 Gal.
Myrtus communis 'compacta' Dwarf Myrtle	5 Gal.
Nandina domestica Nandina Bamboo	5 Gal.
Raphiolepis indica Indian Hawthorn	5 Gal.
Yucca recurvifolia Yucca Pendula	5 Gal.

INERT MATERIALS

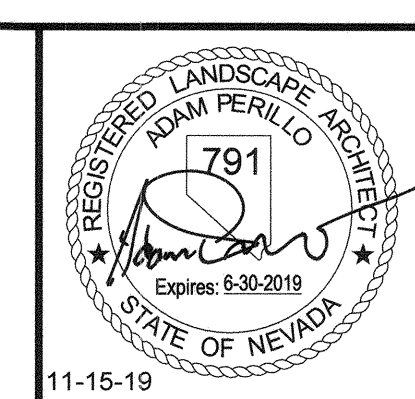
DESCRIPTION
Annual Plants
6" O.C.
Artificial Turf
Decomposed Granite
Match Existing

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
LANDSCAPE PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: CAL
 DRAWN BY: CAL
 CHECKED BY: ACP
 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" = 20'	LS-04
VERT: N/A	SHEET 250 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

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

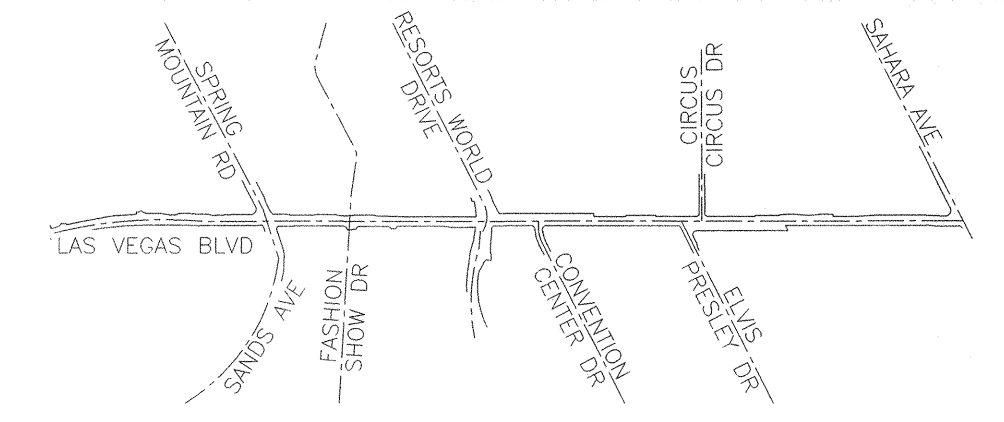
IRRIGATION NOTES

- CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS AND COMPLETING THE INSTALLATION OF A FULLY AUTOMATIC AND OPERATIVE IRRIGATION SYSTEM, AS INDICATED ON THE PLANS, PRIOR TO THE START OF ANY PLANTING OPERATIONS.
- SYSTEM HAS BEEN DESIGNED WITH A STATIC PRESSURE OF 65 TO 70 PSI. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO ORDERING MATERIAL OR STARTING IRRIGATION AND NOTIFY CONSULTANT OF ANY DIFFERENCE FROM PRESSURE INDICATED. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS.
- ALL PIPING AND WIRING PLACED UNDER PAVED AREAS SHALL BE INSTALLED IN SEPARATE SLEEVES WHERE SHOWN ON PLANS. SLEEVE INSTALLATIONS SHALL BE COMPLETED PRIOR TO THE START OF ANY PAVING OPERATIONS (SEE ENGINEERING PAVING PLANS). WHERE NECESSARY, VERIFY EXISTING SLEEVE LOCATIONS AND DETERMINE CONDITION AND COMPATIBILITY WITH DESIGN PRIOR TO THE START OF ANY OTHER WORK. SLEEVING BENEATH EXISTING PAVEMENTS SHALL BE INSTALLED BY BORING UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
- THE IRRIGATION SYSTEM LAYOUT SHOWN ON THE DRAWINGS IS GENERALLY SCHEMATIC. ALL VALVE, COMPONENTS, PIPING, FITTINGS AND EQUIPMENT SHALL BE LOCATED WITHIN R.O.W. LANDSCAPE AREAS UNLESS SLEEVED OR OTHERWISE SHOWN OR APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING NEW IRRIGATION SYSTEM COMPONENTS AND CONNECTION WHICH WILL PROVIDE FULL AUTOMATIC OPERATION AND 100% COMPLETE COVERAGE TO ALL PLANTS AND TURF AREAS AS INDICATED ON THE PLANS WITHOUT RUN-OFF OR OVERTHROW ONTO ANY PAVED SURFACES.
- REFER TO SPECIAL PROVISION AND DETAILS FOR INSTALLATION PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPING NECESSARY TO PROVIDE ALL SUB-LATERAL PIPING, FITTINGS, AND RISERS TO EACH PLANT EMITTER AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
□	Drip Zone Flush End Cap (see details)	5
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)	103
	GROUND COVER: Netafim Drip Techline CV	169 SF
SYMBOL	SIZE AND DESCRIPTION	
	SCH 40 SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring "X" denotes quantity	70 LF
SYMBOL	SIZE AND DESCRIPTION	
	SCH 40 PVC Palm/ Tree Lateral Pipe (Size per table below)	946 LF
	SCH 40 PVC Shrub Lateral Pipe (Size per table below)	946 LF
	SCH 40 PVC Ground Cover Lateral Pipe (Size per table below)	400 LF
	FLOW (GPM) PIPE SIZE	
	0-6.0 3/4"	
	6.1-10 1"	
	10+ 1-1/4"	

- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.



KEY MAP
NTS

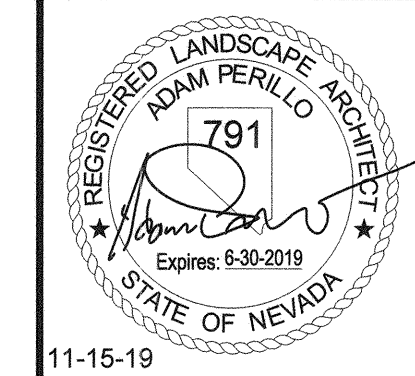
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

User: fernando.rdz
Path: K:\work\publications\092061_cac\021-Hb_roadway-signals\CAD\plansheets\Landscape\Phase 1_IR.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
IRRIGATION NOTES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: JLW
DRAWN BY: JLW
CHECKED BY: ACP
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" = 20'	IR-GN
VERT: N/A	SHEET 252 OF 345
FIELD BOOK: NONE	L-2210

811
know what's below
Call before you dig

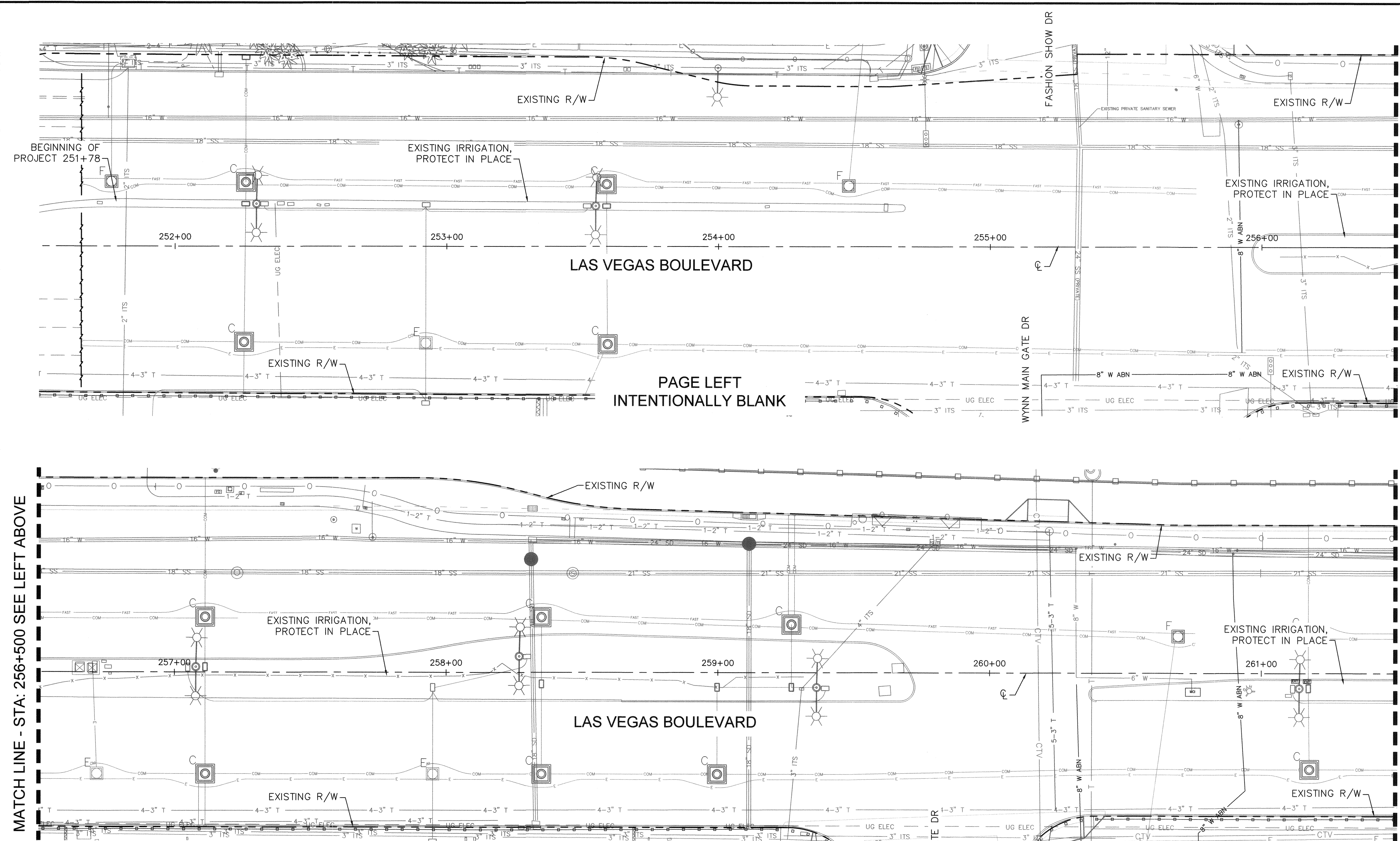
SAFETY ALERT
Call Before You Overhead
1-702-227-8929

UNION PACIFIC RAILROAD
Call Before You Dig
1-702-432-5300

ISSUED FOR CONSTRUCTION

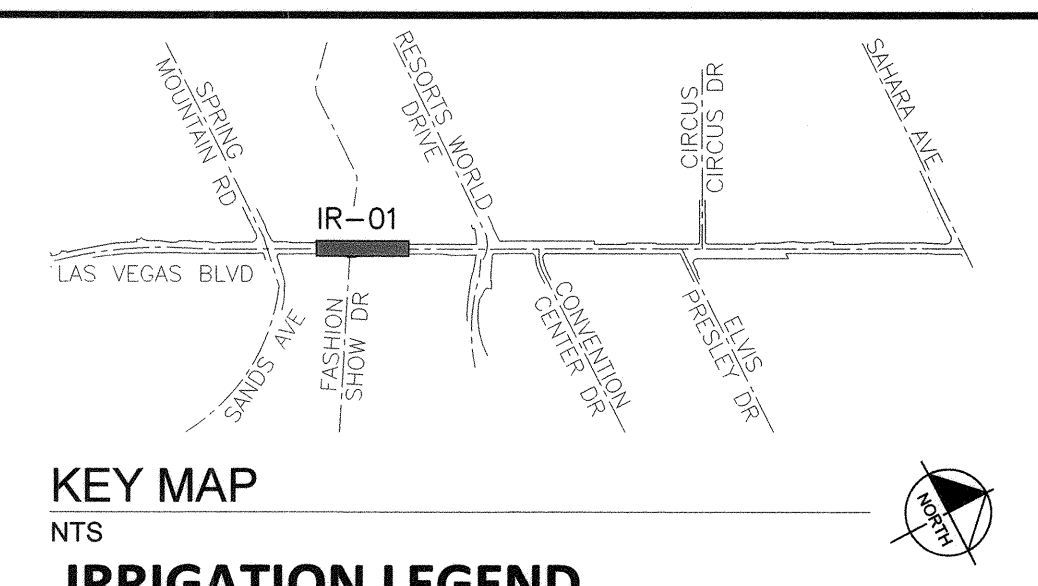
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User: fernando.raz
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MATCH LINE - STA: 256+50 SEE LEFT BELOW

MATCH LINE - STA: 261+50 SEE SHEET IR-02

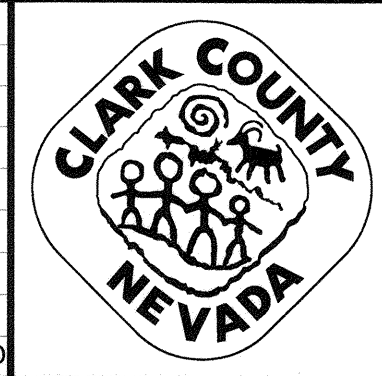


IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION
□	Drip Zone Flush End Cap (see details)
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)
▨	GROUND COVER: Netafilm Drip Techline CV
SYMBOL	SIZE AND DESCRIPTION
○	SCH 40 SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring "X" denotes quantity
SYMBOL	SIZE AND DESCRIPTION
P	SCH 40 PVC Palm/ Tree Lateral Pipe (Size per table below)
S	SCH 40 PVC Shrub Lateral Pipe (Size per table below)
G	SCH 40 PVC Ground Cover Lateral Pipe (Size per table below)
FLOW (GPM)	PIPE SIZE
0-6.0	3/4"
6.1-10	1"
10+	1-1/4"

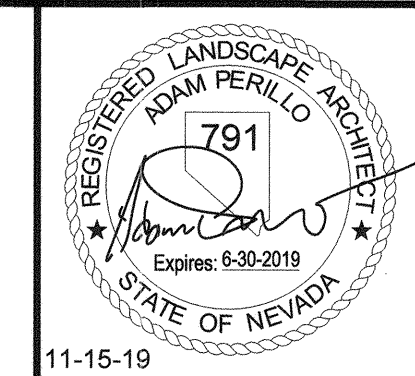
- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.

MATCH LINE - STA: 256+500 SEE LEFT ABOVE



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
IRRIGATION PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

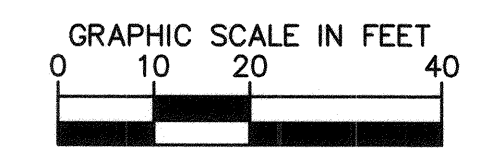
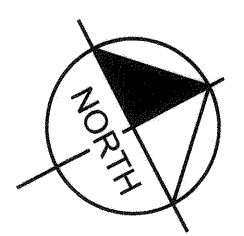


DESIGNED BY: JLW
 DRAWN BY: JLW
 CHECKED BY: ACP
 DATE: 11-15-2019
Kimley»Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE
 HORIZ: 1" = 20'
 VERT: N/A
 FIELD BOOK: NONE

SHEET No
IR-01
 SHEET 253 OF 345
 L-2210

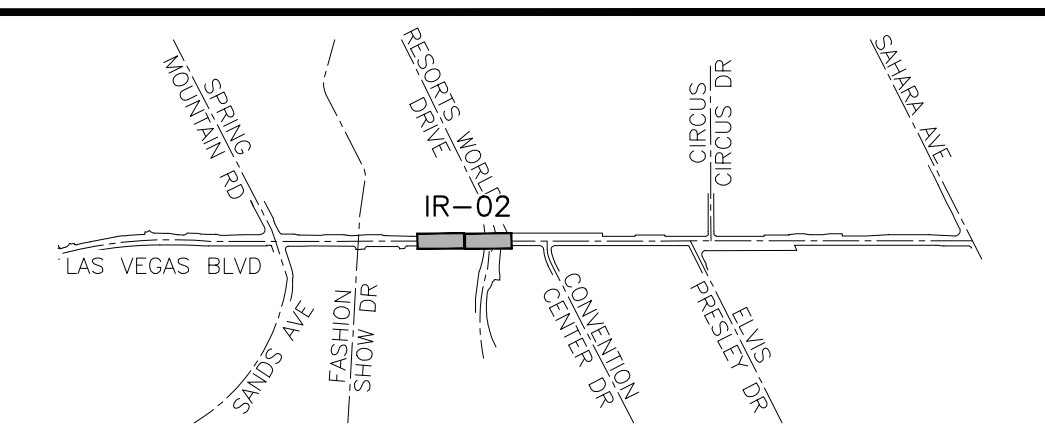
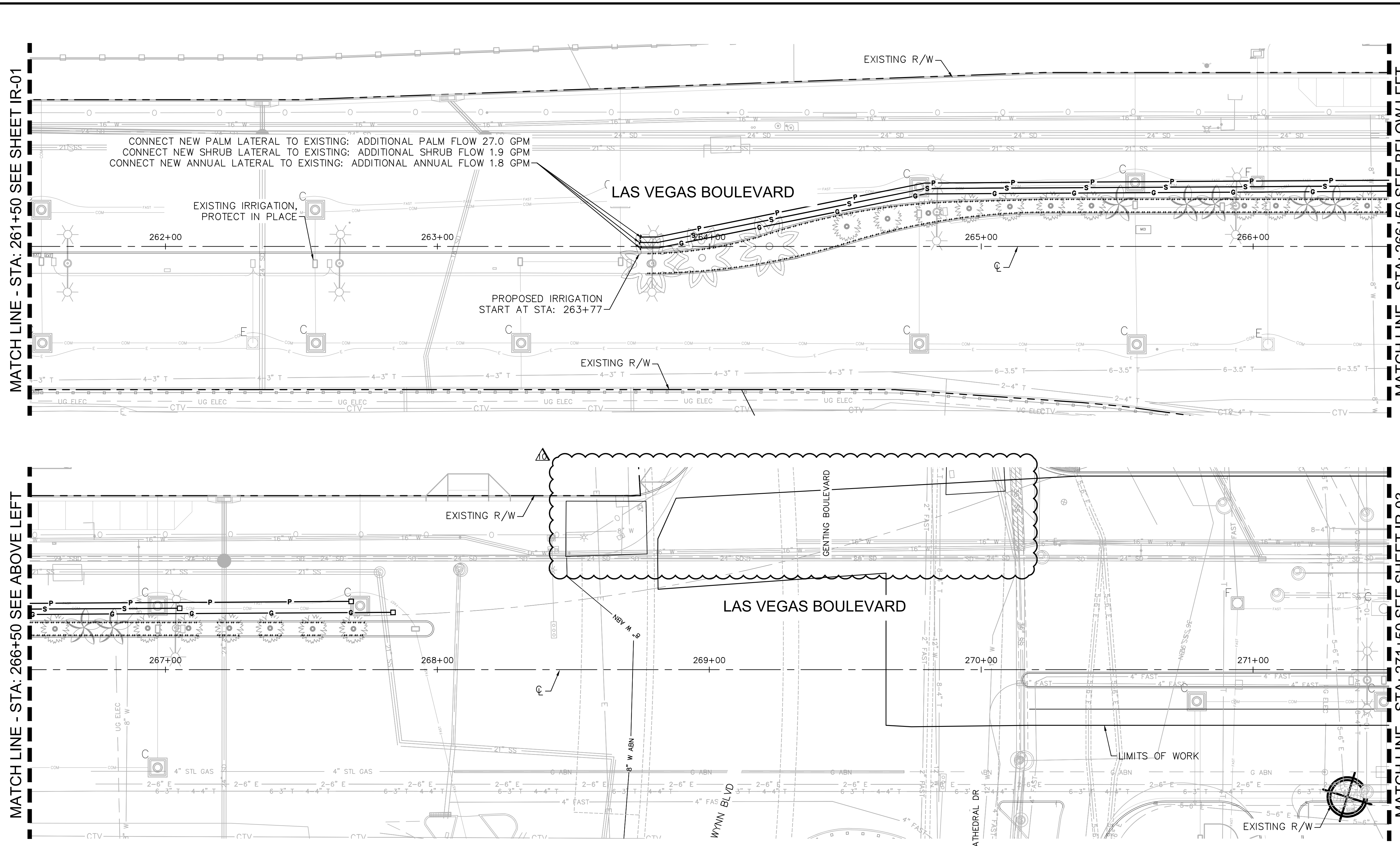
NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



BID No.: 605203-19

ISSUED FOR CONSTRUCTION

User: Daniel Wolf
 Path: K:\LAV_Public\Trans\092061_CC\021-LVB_Roadway-Signal\CAD\Plansheets\Phase 1_IR.dwg /
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KEY MAP
 NTS
IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION								
□	Drip Zone Flush End Cap (see details)								
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet, (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)								
▨	GROUND COVER: Netafim Drip Techline CV								
SYMBOL	SIZE AND DESCRIPTION								
⊗	SCH 40 SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring "X" denotes quantity								
SYMBOL	SIZE AND DESCRIPTION								
P	SCH 40 PVC Palm/ Tree Lateral Pipe (Size per table below)								
S	SCH 40 PVC Shrub Lateral Pipe (Size per table below)								
G	SCH 40 PVC Ground Cover Lateral Pipe (Size per table below)								
	<table border="1"> <thead> <tr> <th>FLOW (GPM)</th> <th>PIPE SIZE</th> </tr> </thead> <tbody> <tr> <td>0-6.0</td> <td>3/4"</td> </tr> <tr> <td>6.1-10</td> <td>1"</td> </tr> <tr> <td>10+</td> <td>1-1/4"</td> </tr> </tbody> </table>	FLOW (GPM)	PIPE SIZE	0-6.0	3/4"	6.1-10	1"	10+	1-1/4"
FLOW (GPM)	PIPE SIZE								
0-6.0	3/4"								
6.1-10	1"								
10+	1-1/4"								

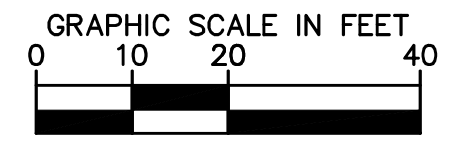
- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.

MATCH LINE - STA: 261+50 SEE SHEET IR-01

MATCH LINE - STA: 266+50 SEE BELOW LEFT

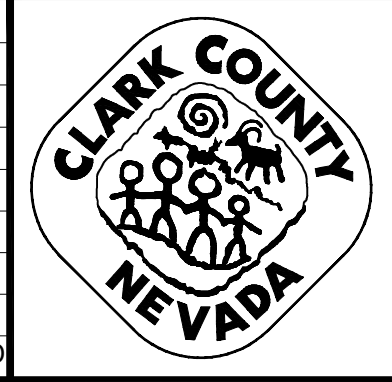
MATCH LINE - STA: 266+50 SEE ABOVE LEFT

MATCH LINE - STA: 271+50 SEE SHEET IR-03



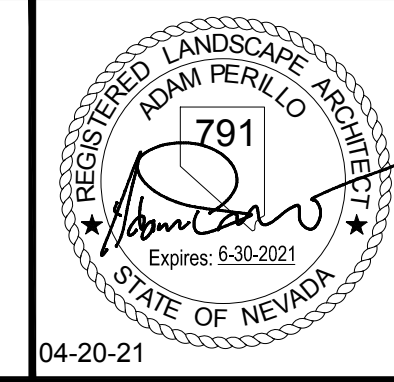
NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	LVB-GENTING INTERSECTION REVISION	04/20/2021

APPROVED



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
IRRIGATION PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: JLW
 DRAWN BY: JLW
 CHECKED BY: ACP
 DATE: 04-20-2021

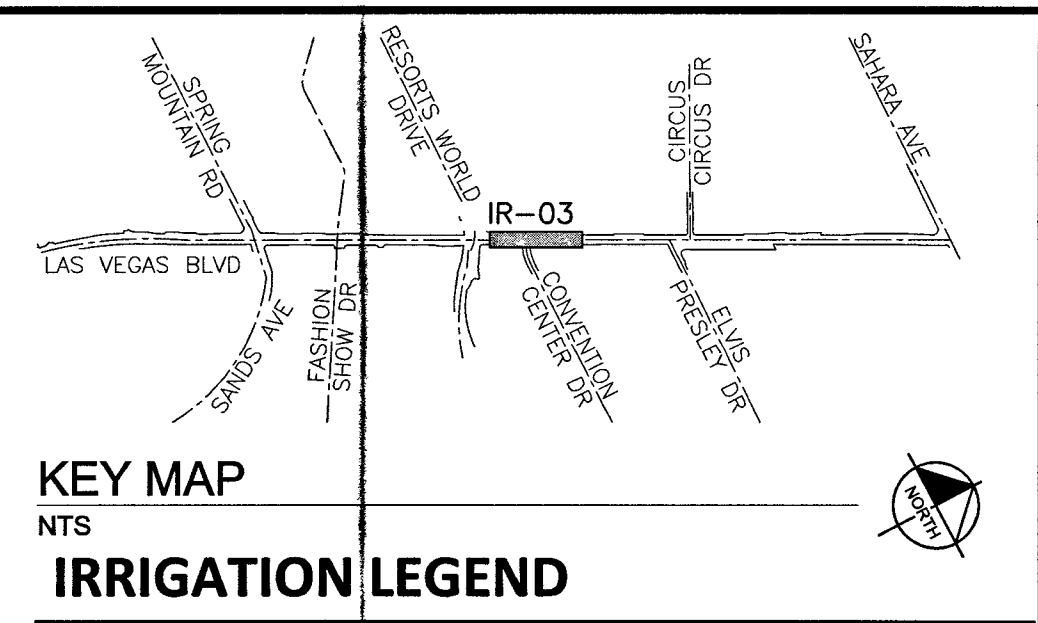
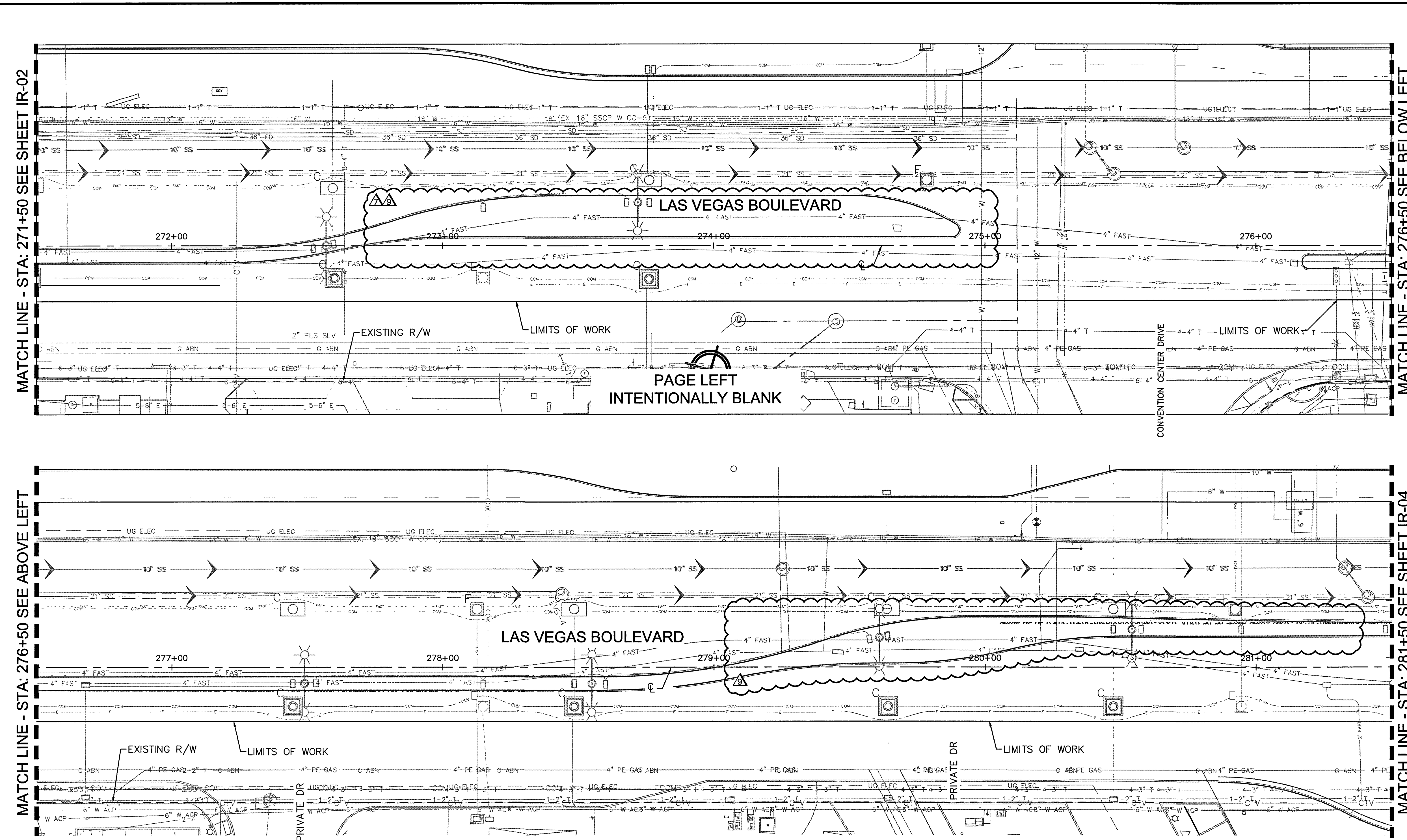
Kimley»Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	SHEET No
HORIZ: 1" = 20'	IR-02
VERT: N/A	SHEET 254 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\Trans\09206\CC\021-LV_Roadway-Signal\CAD\Plansheets\Landscape\Phase 1\IR.dwg /
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IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION
□	Drip Zone Flush End Cap (see details)
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)
▨	GROUND COVER: Netafim Drip Techline CV
SYMBOL	SIZE AND DESCRIPTION
○	SCH 40 SLEEVE / Spears or equal. Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring. "X" denotes quantity
SYMBOL	SIZE AND DESCRIPTION
— P —	SCH 40 PVC Palm/ Tree Lateral Pipe (Size per table below)
— S —	SCH 40 PVC Shrub Lateral Pipe (Size per table below)
— G —	SCH 40 PVC Ground Cover Lateral Pipe (Size per table below)
	FLOW (GPM) PIPE SIZE
	0-6.0 3/4"
	6.1-10 1"
	10+ 1-1/4"

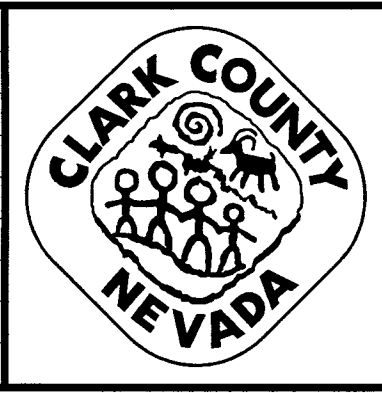
NOTE:

- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
- ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.



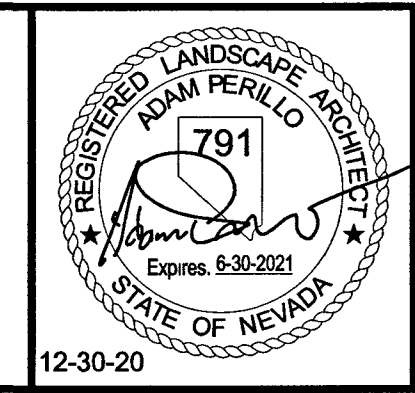
NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
3	RWL RELATED IMPROVEMENT REV	09/04/2020
4	RWL RELATED IMPROVEMENT REV	12/30/2020

APPROVED



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
IRRIGATION PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: JLW
 DRAWN BY: JLW
 CHECKED BY: ACP
 DATE: 12-30-2020
Kimley»Horn
 6871 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

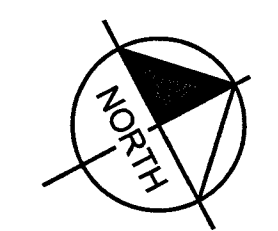
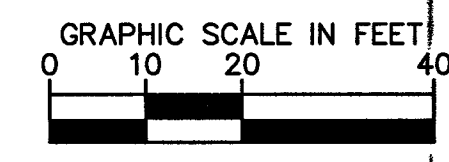
SCALE	SHEET No
HORIZ: 1" = 20'	IR-03
VERT: N/A	SHEET 255 OF 345
FIELD BOOK: NONE	L-2210

811
Know what's below
Call before you dig

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

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

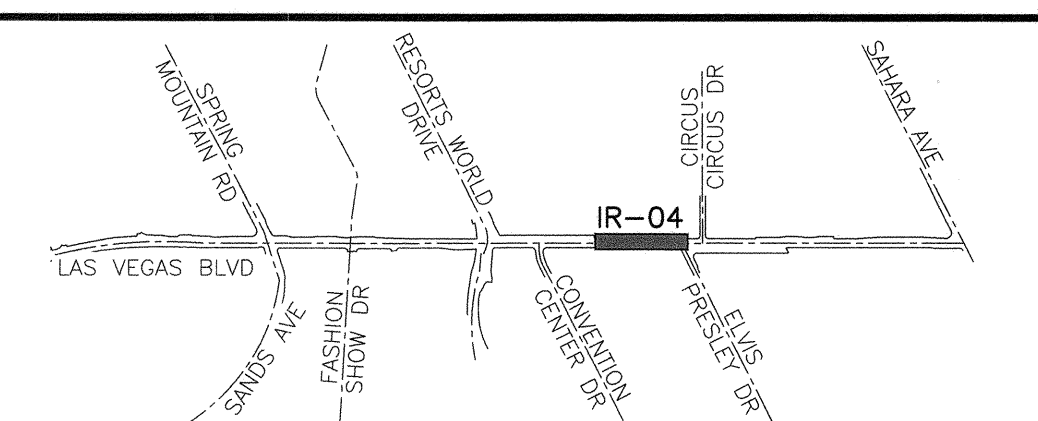
UnderGround
Call Before You Dig
1-702-432-5300



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

ISSUED FOR CONSTRUCTION

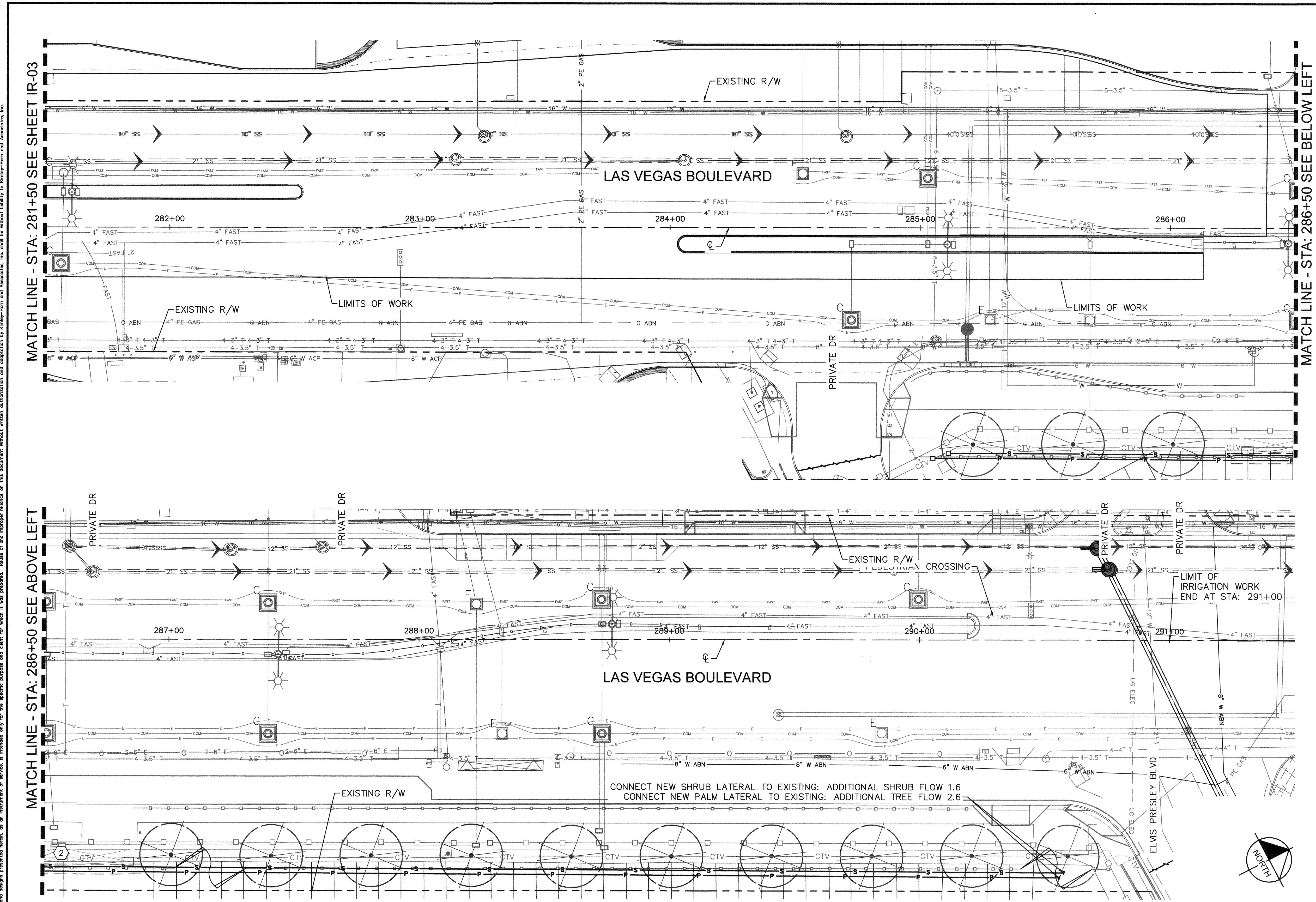
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



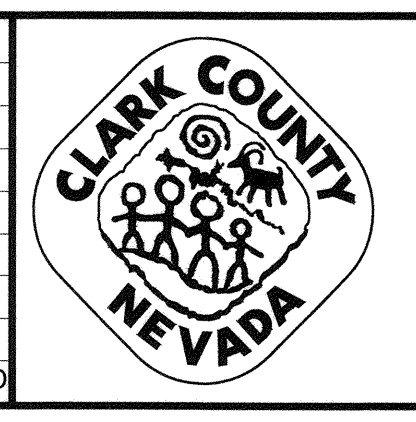
KEY MAP
IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION
□	Drip Zone Flush End Cap (see details)
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)
▨	GROUND COVER: Netafilm Drip Techline CV
SYMBOL	SIZE AND DESCRIPTION
⊗	SCH 40 SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring "X" denotes quantity
SYMBOL	SIZE AND DESCRIPTION
P	SCH 40 PVC Palm/ Tree Lateral Pipe (Size per table below)
S	SCH 40 PVC Shrub Lateral Pipe (Size per table below)
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	FLOW (GPM) PIPE SIZE
	0-6.0 3/4"
	6.1-10 1"
	10+ 1-1/4"

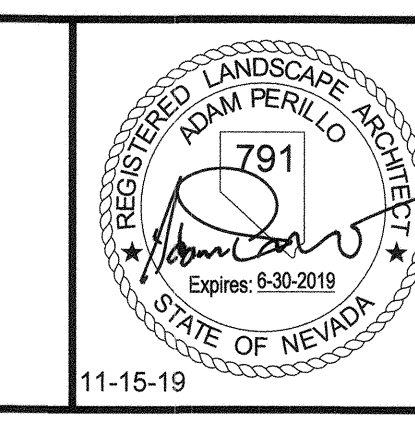
- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.



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
 IRRIGATION PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: JLW
 DRAWN BY: JLW
 CHECKED BY: ACP
 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" = 20'	IR-04
VERT: N/A	SHEET 256 OF 345
FIELD BOOK: NONE	L-2210

811
 know what's below
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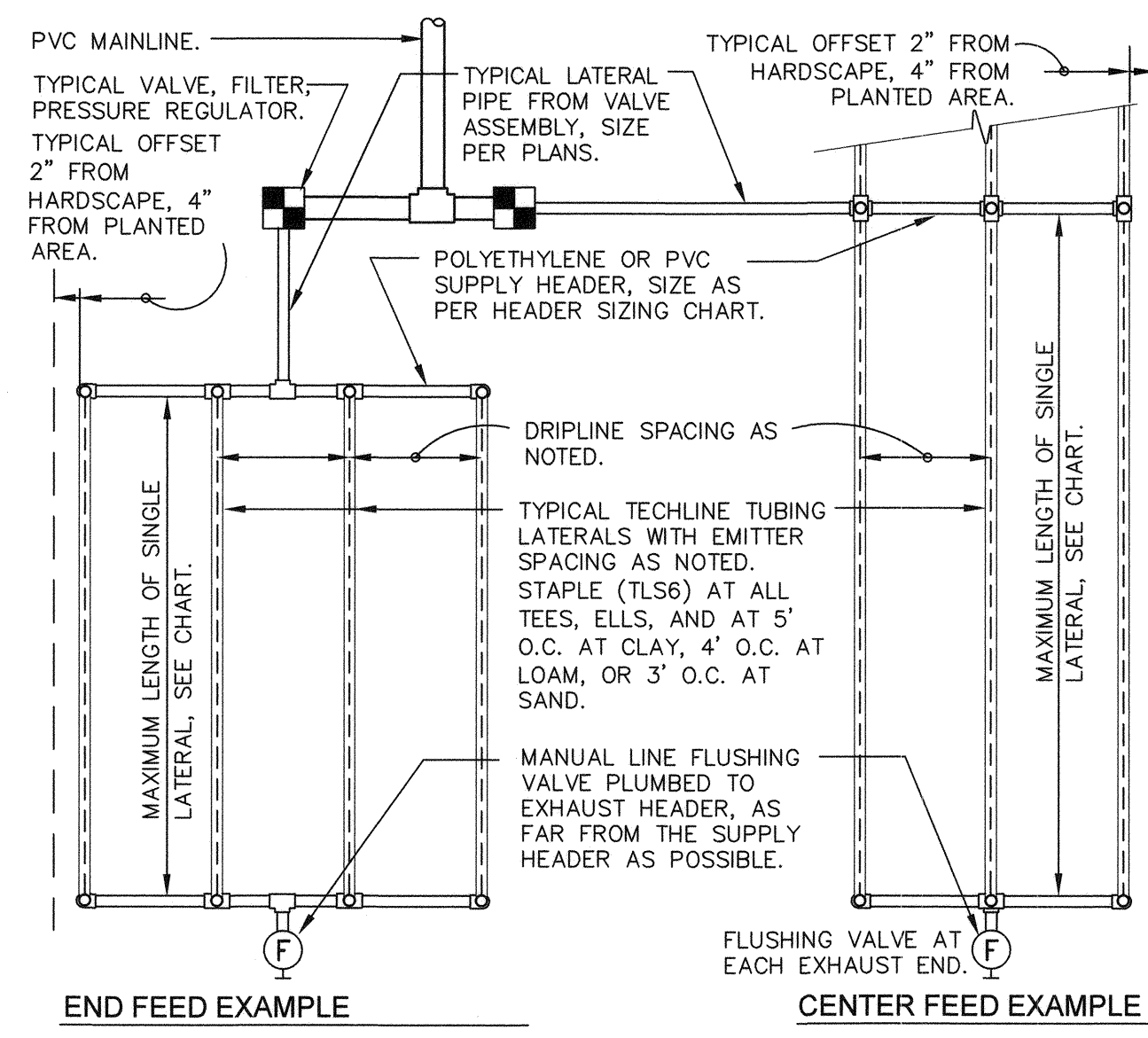
SAFETY ALERT
 Call Before You Overhead
 1-702-227-2829

UNION PACIFIC RAILROAD
 Call Before You Dig
 1-702-432-5300

User: fernando.roz
 Path: K:\vop_publications\092061_cc\021-hb_roadway-signals\landscapes\Phase 1_IR.dwg /
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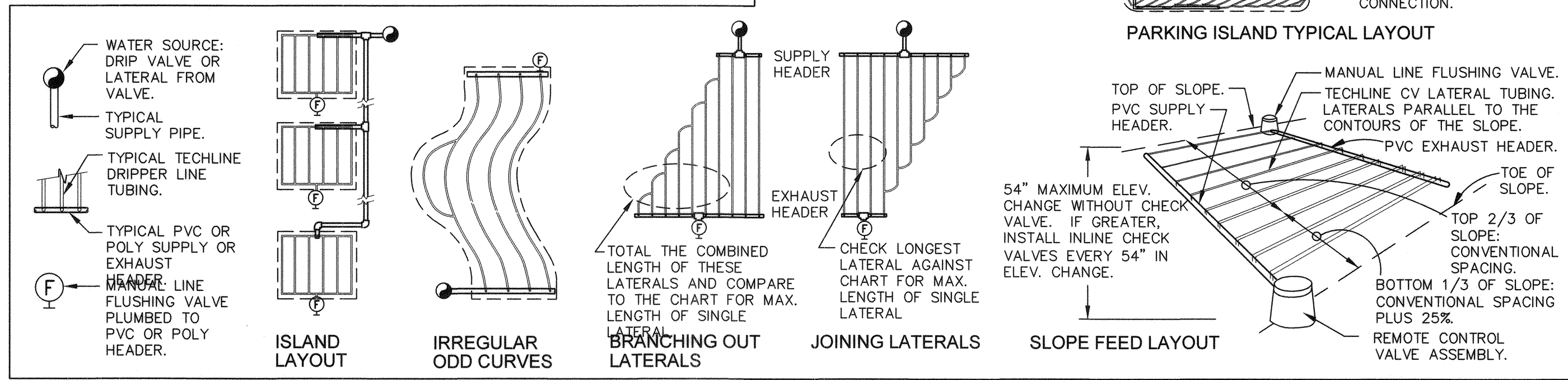
DRIPPER SPACING	12"			18"			24"				
	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9	
INLET PRESSURE (PSI)	15	127	109	86	65	177	151	120	91	152	116
DRIPPER FLOW RATE (GPH)	25	427	325	256	194	604	459	361	274	458	348
	35	539	409	322	244	763	579	456	346	580	440
	45	618	469	369	280	877	664	523	397	666	506

DRIPPER SPACING	0.26 GPH DRIPPER		0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM
12"	26.40	0.44	40.00	0.67	61.00	1.02	92.00	1.53
18"	17.58	0.29	26.67	0.44	41.00	0.68	61.00	1.02
24"	N/A	N/A	N/A	N/A	31.00	0.51	46.00	0.77

SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)

STEP 1: ADD LENGTH OF ALL TECHLINE LATERAL TUBING CONNECTED TO THE HEADER.
 STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGTH IN UNITS OF 100.
 STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "TECHLINE FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.
 STEP 4: SIZE THE HEADER WITH THE FOLLOWING:
 1 TO 6 GPM: 3/4" HEADER. 6 TO 10 GPM: 1" HEADER.
 10 TO 20 GPM: 1 1/4" HEADER. 20 TO 30 GPM: 1 1/2" HEADER.

	TURF			SHRUB & GROUND COVER		
	CLAY	LOAM	SANDY	CLAY	LOAM	SANDY
DIPPER FLOW (GPH)	0.26	0.4	0.6	0.26	0.4	0.6
DRIPPER INTERVAL	18"	12"	12"	18"	18"	12"
LATERAL (ROW) SPACING	18"-22"	18"-22"	12"-16"	18"-24"	18"-24"	16"-20"
APPLICATION RATE (IN/HR)	.19-0.15	.43-.35	.96-.72	.19-.21	.29-.21	.72-.58
TIME TO APPLY 1/4"	79-100	35-43	16-21	79-107	52-71	21-26



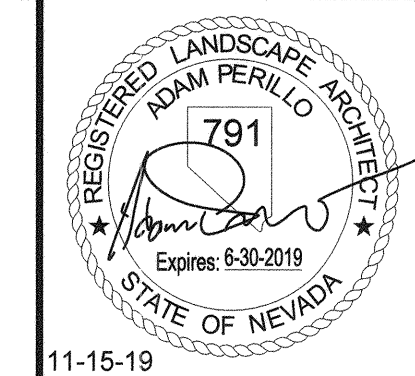
1 TYPICAL NETAFIM TECHLINE CV REQUIREMENTS
N.T.S.

328413.56-04

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
 IRRIGATION PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: JLW
 DRAWN BY: JLW
 CHECKED BY: ACP
 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" = 20'	IR-DT
VERT: N/A	SHEET 258 OF 345
FIELD BOOK: NONE	L-2210

811
 know what's below
 Call before you dig

SAFETY ALERT
 Call Before You Overhead
 1-702-227-2829

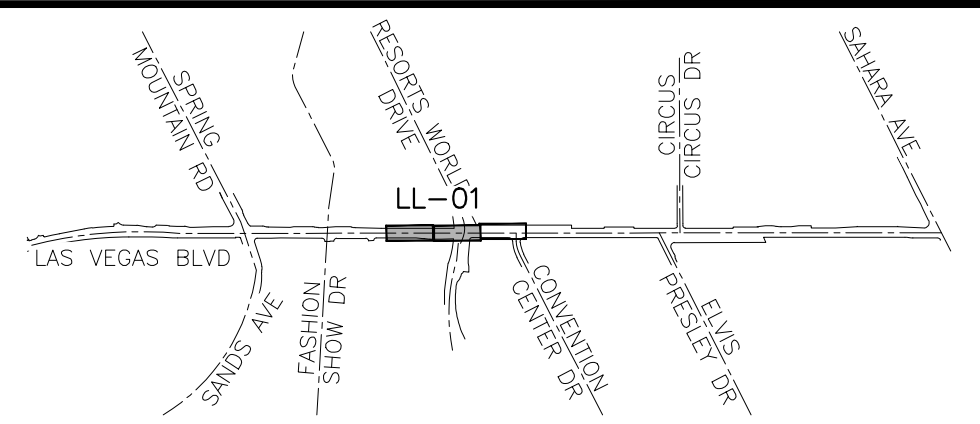
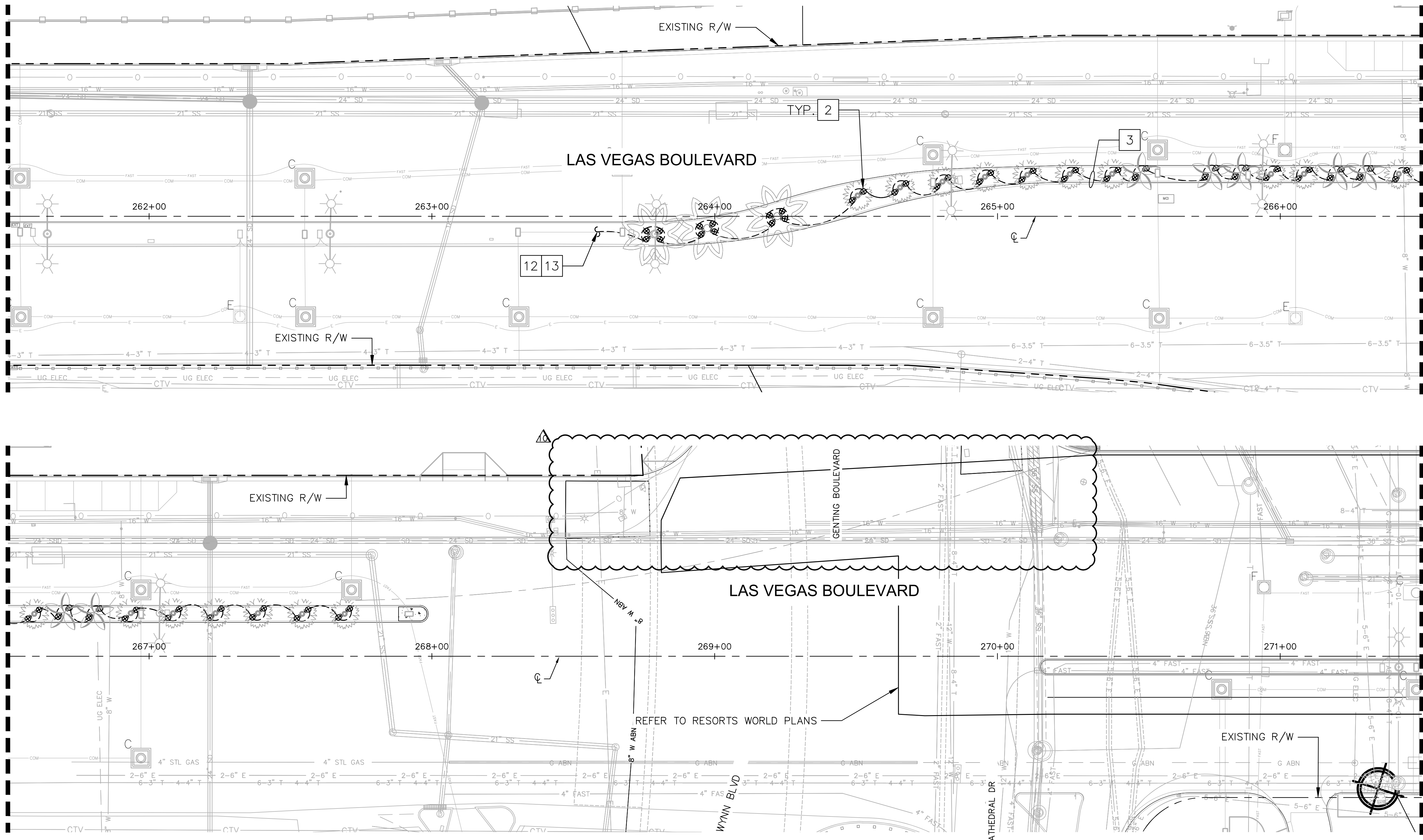
UNION PACIFIC RAILROAD
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 1-702-432-5300

Underground
 Call Before You Dig
 1-800-336-9193

BID NO.: 605203-19

ISSUED FOR CONSTRUCTION

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 Path: K:\LAV_Public\Trans\092061_CC\021-LVB_Roadway-Signal\CAD\Plansheets\landscape\Phase 1_LL.dwg
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KEY MAP
NTS

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD
	STANDARD NO. 3 1/2 PULL BOX
	3/4" ELECTRICAL UNDERGROUND CONDUIT
	2" ELECTRICAL UNDERGROUND CONDUIT

CONSTRUCTION NOTES

- 2 INSTALL NEW LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD.
- 3 INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 12 CONNECT TO EXISTING CONDUIT AND FIELD VERIFY AND MATCH EXISTING CONDUIT SIZE.
- 13 CONNECT EXISTING CONDUCTORS TO CLOSEST EXISTING JUNCTION POINT.

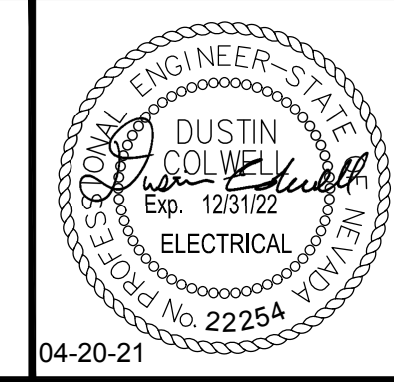
MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW

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
 LANDSCAPE LIGHTING PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

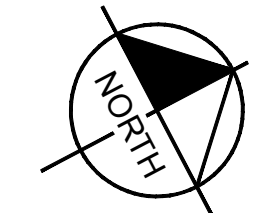
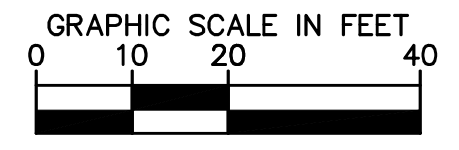


DESIGNED BY: DJC
 DRAWN BY: MT
 CHECKED BY: DJC
 DATE: 04-20-2021
Kimley»Horn
 6671 Las Vegas Boulevard South Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 862-3600

SCALE	
HORIZ:	1" = 20'
VERT:	N/A
FIELD BOOK	NONE

SHEET No
LL-01
 SHEET 267 OF 345
 L-2210

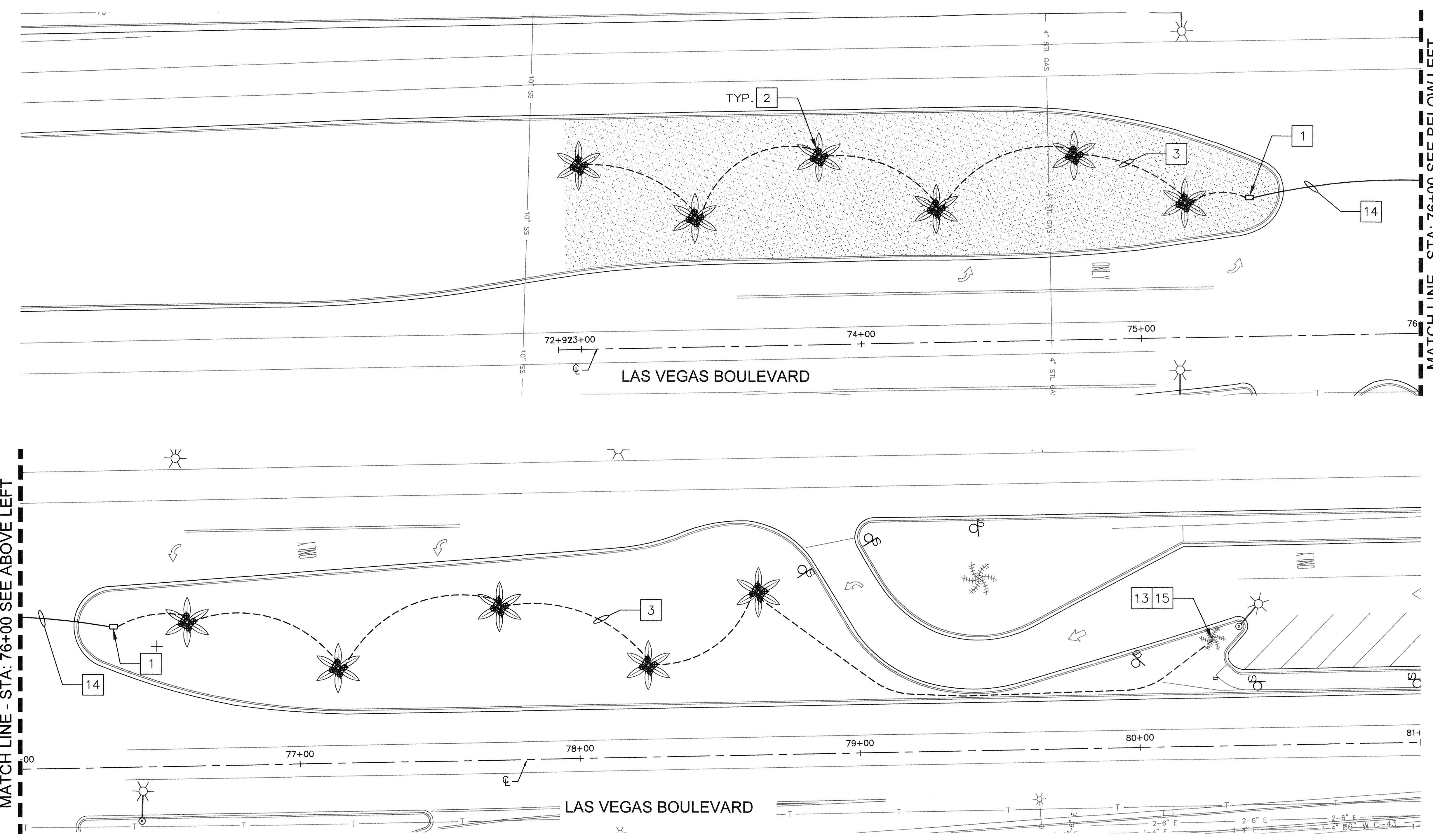
SAFETY ALERT
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 know what's below
 Call before you dig
UNION PACIFIC RAILROAD
 Call Before You Dig
 1-800-336-9193
Call Before You Dig
 1-702-432-5300
PRESENT AND WORKING STATUS OF UNDERGROUND



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

BID No.: 605203-19

ISSUED FOR CONSTRUCTION



LIGHTING LEGEND

SYMBOL	DESCRIPTION
☉	LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD
□	STANDARD NO. 3 1/2 PULL BOX
---	3/4" ELECTRICAL UNDERGROUND CONDUIT
---	2" ELECTRICAL UNDERGROUND CONDUIT

- CONSTRUCTION NOTES**
- INSTALL NEW ELECTRICAL NO. 3 1/2" PULL BOX.
 - INSTALL NEW LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD.
 - INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
 - CONNECT EXISTING CONDUCTORS TO CLOSEST EXISTING JUNCTION POINT.
 - INSTALL 2-2" DIRECTIONAL BORE ELECTRICAL CONDUITS WITH (2) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
 - PERFORM 72-HOUR LOAD STUDY ON EXISTING LANDSCAPE LIGHTING CIRCUIT TO DETERMINE EXISTING LOAD. PROVIDE INFORMATION TO ENGINEER PRIOR TO ADDING NEW LIGHTS TO EXISTING CIRCUIT. LOAD STUDY SHALL BE CONSIDERED INCIDENTAL TO LIGHTING BID ITEMS.

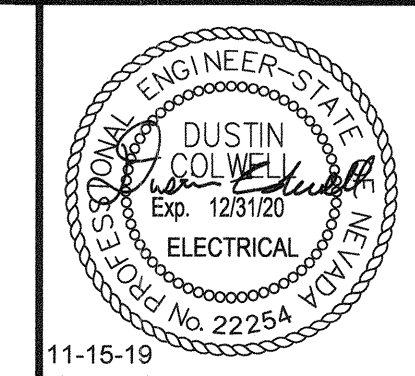
MATCH LINE - STA: 76+00 SEE ABOVE LEFT

MATCH LINE - STA: 76+00 SEE BELOW LEFT

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
 LANDSCAPE LIGHTING PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: DJC
 DRAWN BY: DJC
 CHECKED BY: JDB
 DATE: 11-15-2019

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

SCALE

HORIZ:	1" = 20'
VERT:	N/A
FIELD BOOK:	NONE

SHEET No

LL-02

SHEET 268 OF 345

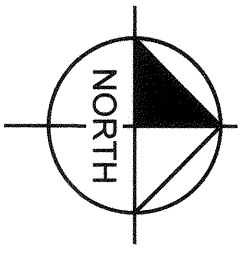
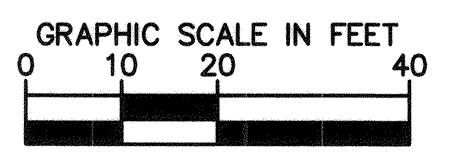
L-2210

811
 know what's below
 Call before you dig

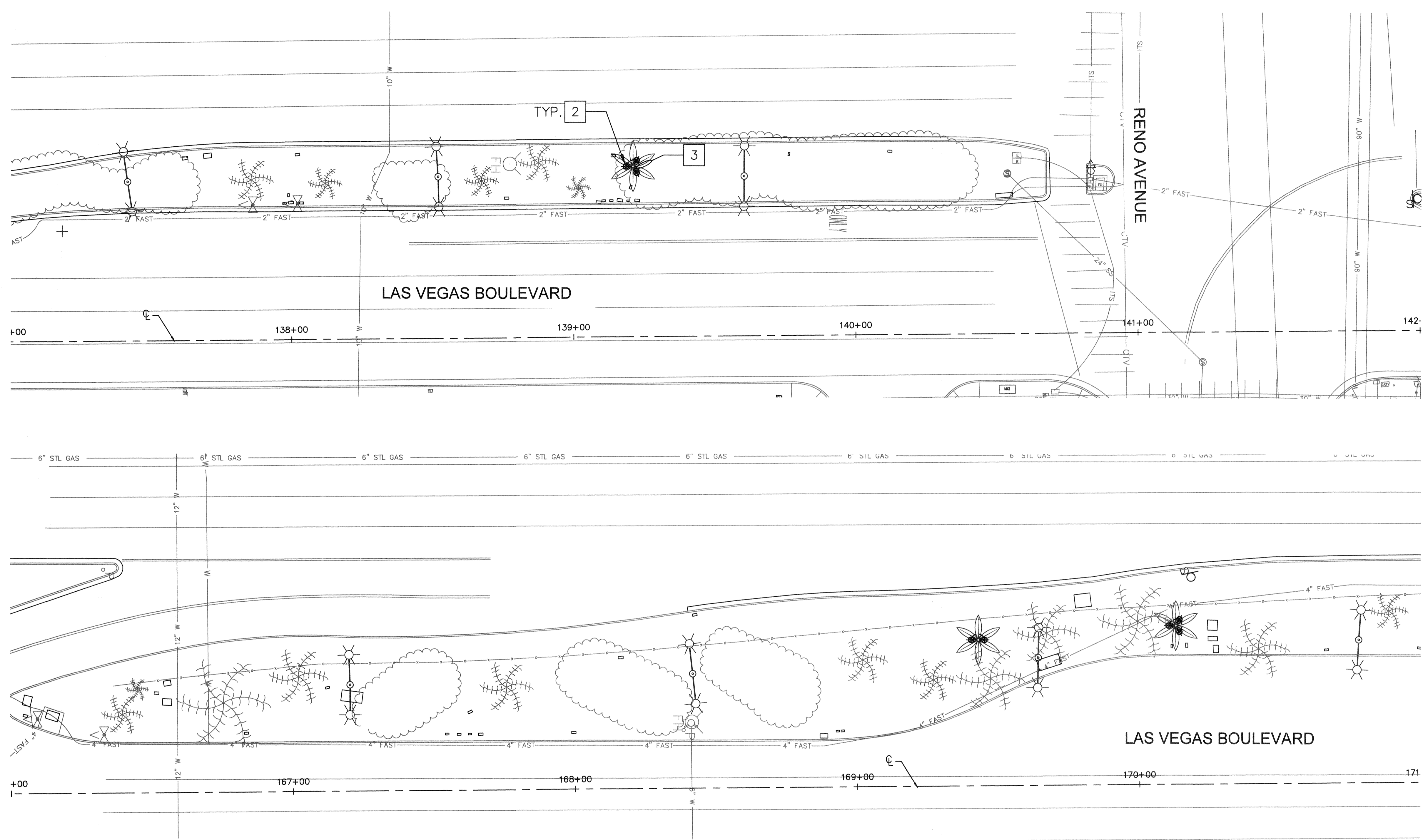
SAFETY ALERT
 Call Before You Overhead
 1-702-227-2829

UNION PACIFIC RAILROAD
 Call Before You Dig
 1-702-432-5300

Call Before You Dig
 1-800-336-9193



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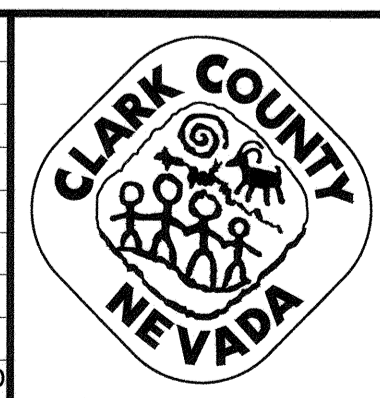
LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD
	STANDARD NO. 3 1/2 PULL BOX
	3/4" ELECTRICAL UNDERGROUND CONDUIT
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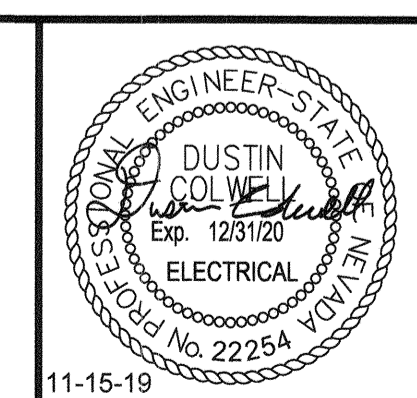
- CONSTRUCTION NOTES**
- INSTALL NEW LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD.
 - INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.

User: fernando.roz@clarkcountynv.gov
 Path: K:\nv_publications\992061_cc\021-16_roadway-signal\CAD\plansheets\Landscape\Addendum_LL.dwg /
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APPROVED		



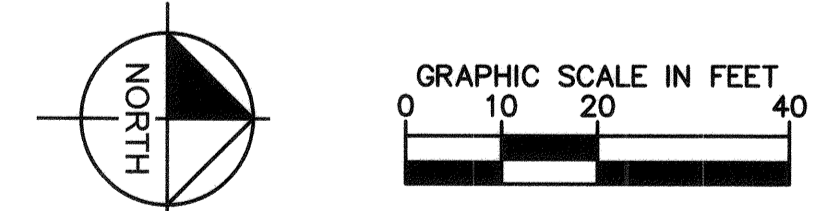
LAS VEGAS BOULEVARD
ROADWAY IMPROVEMENTS
 FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
 LANDSCAPE LIGHTING PLAN
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

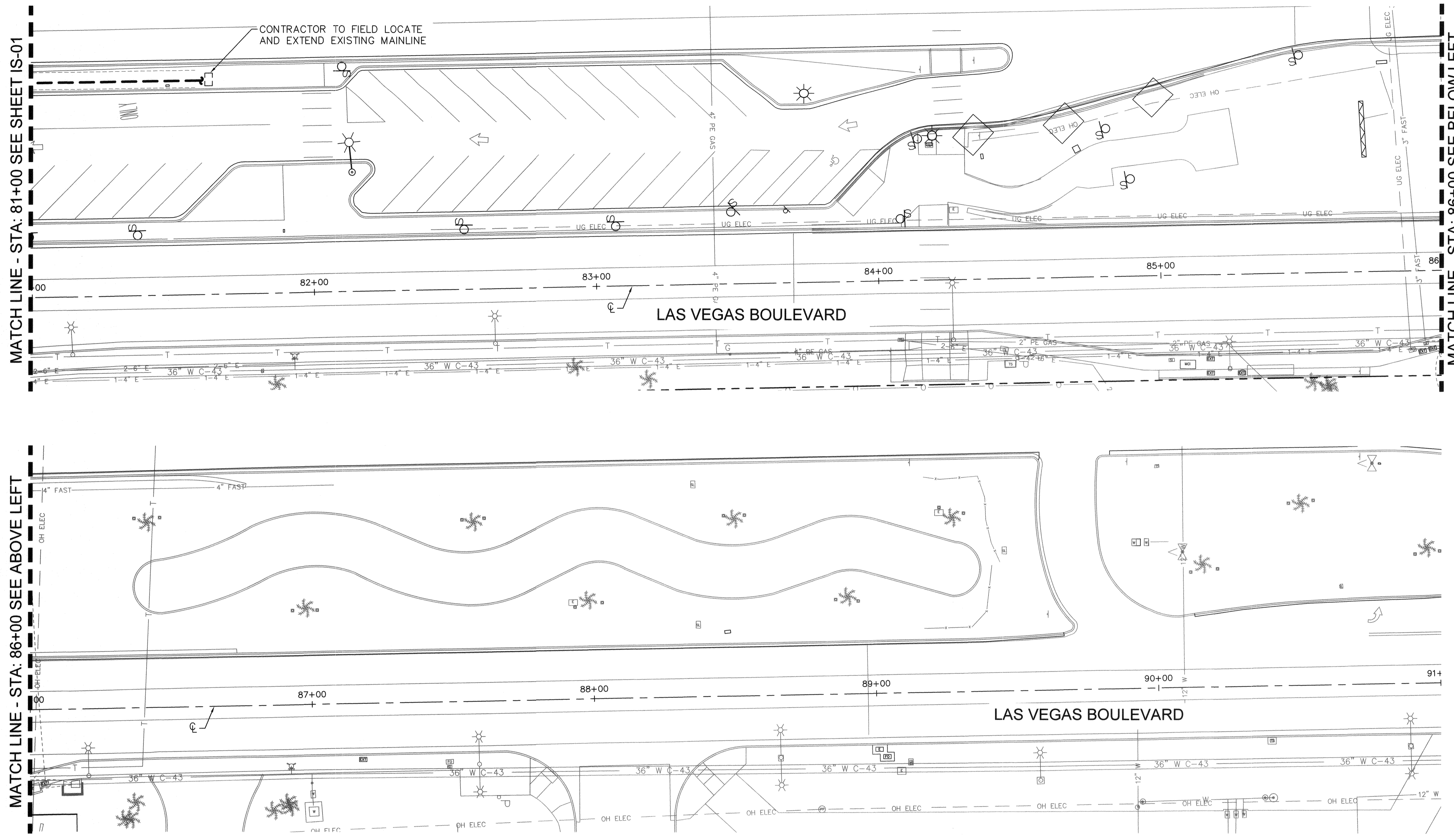


DESIGNED BY: DJC
 DRAWN BY: DJC
 CHECKED BY: LDB
 DATE: 11-15-2019
Kimley»Horn
8671 Las Vegas Boulevard South, Suite 320
 Las Vegas, Nevada 89119 Tel. No. (702) 882-3600

SCALE	SHEET No
HORIZ: 1" = 20'	LL-04
VERT: N/A	SHEET 270 OF 345
FIELD BOOK NONE	L-2210

SAFETY ALERT
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 Call Before You Dig
 1-800-336-9193
UnderGround
 1-702-432-5300
 new as other utility of underground





LANDSCAPE SCHEDULE

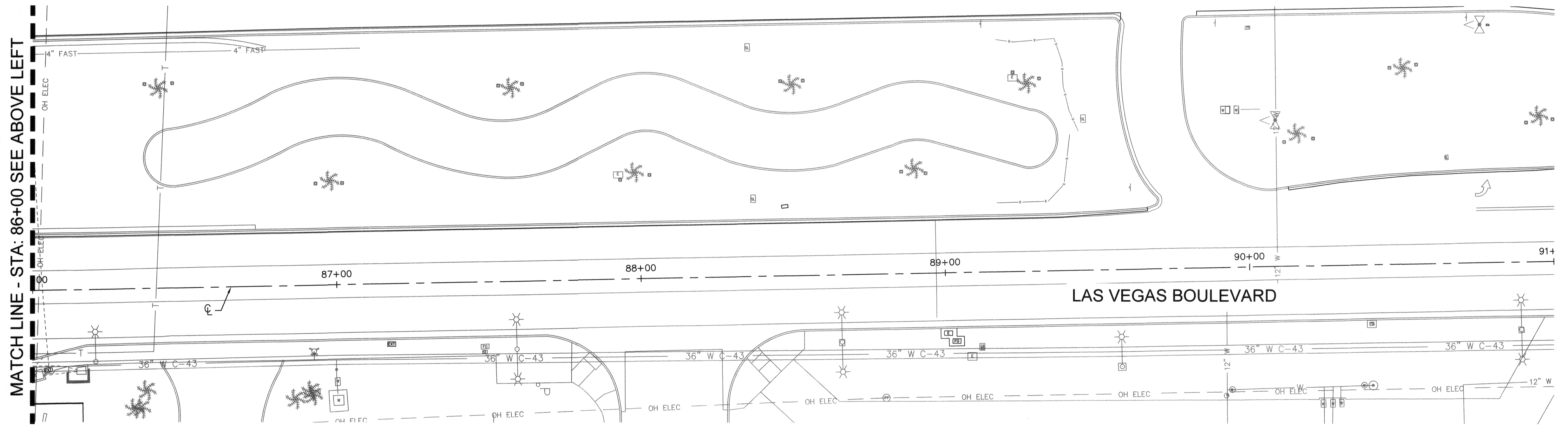
TREES	BOTANICAL NAME / COMMON NAME	QTY
	Tree to be Removed	3
	Salvaged Canary Palm (See Sheet 225, Detail 2)	21

IRRIGATION SCHEDULE

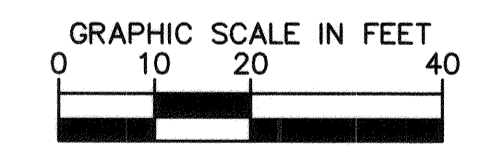
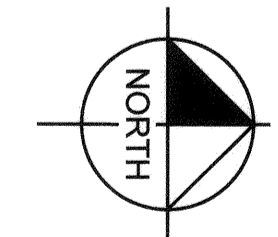
SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	Hunter Node-200; 2 Zone Controller Install per Manufacturer's Specifications in Valve Box	2
	Rainbird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves	2
	Drip Zone Flush End Cap (See Sheet 231, Detail 5)	4
	Palms: Rain Bird RWS-B-C-1402 (2 per Tree, See Sheet 231, Detail 8)	42
SIZE AND DESCRIPTION		
	SCH 40 PVC 4" Mainline Sleeve, Spears or Equal "X" Indicates Quantity	275 LF
SIZE AND DESCRIPTION		
	SCH 40 PVC Mainline - 1-1/2"	730 LF
	SCH 40 PVC Lateral Pipe (Size per table below)	496 LF
FLOW (GPM)	PIPE SIZE	
0-6.0	3/4"	
6.1-10	1"	
10+	1-1/4"	

NOTE:

- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
- ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.
- ALL IMPACTS TO EXISTING CONDITIONS TO BE RESTORED BACK TO EXISTING CONDITIONS AT NO ADDITIONAL COST.



CONTRACTOR TO EXTEND CURRENT PALM LATERAL TO SALVAGED CANARY PALM AND ADD TWO EMITTERS PER PALM. SEE IRRIGATION SHEET 231, DETAIL 8.



811
know what's below
Call before you dig

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

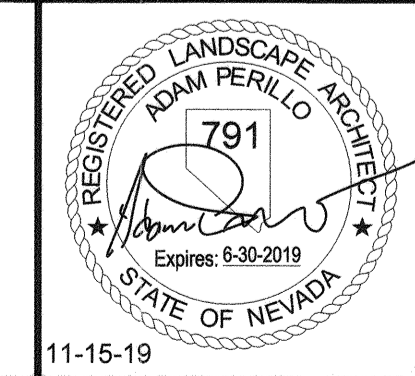
UNION PACIFIC RAILROAD
Call Before You Dig
1-702-432-5300
1-800-536-9193

User: fernando.raz Path: K:\vop\publications\092061_cc\021-hb_roadway-signal\CAD\plansheets\Landscapes\Phase 1_LIS.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 approval 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
SALVAGE PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

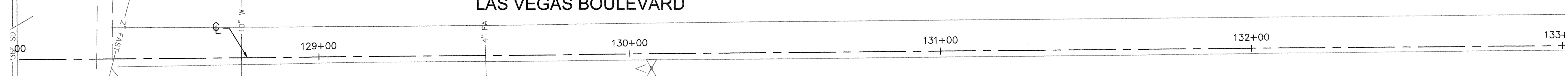
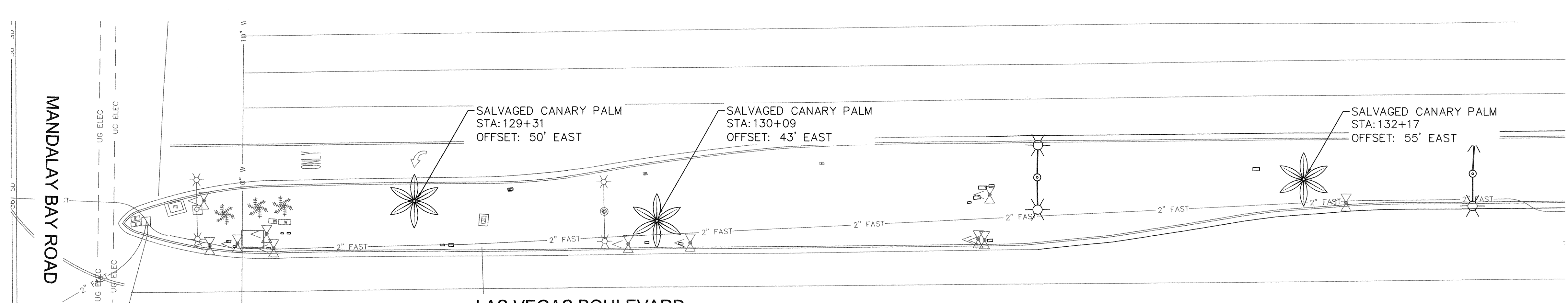
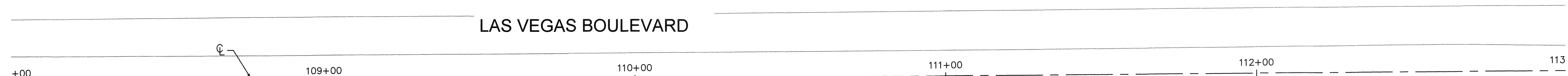
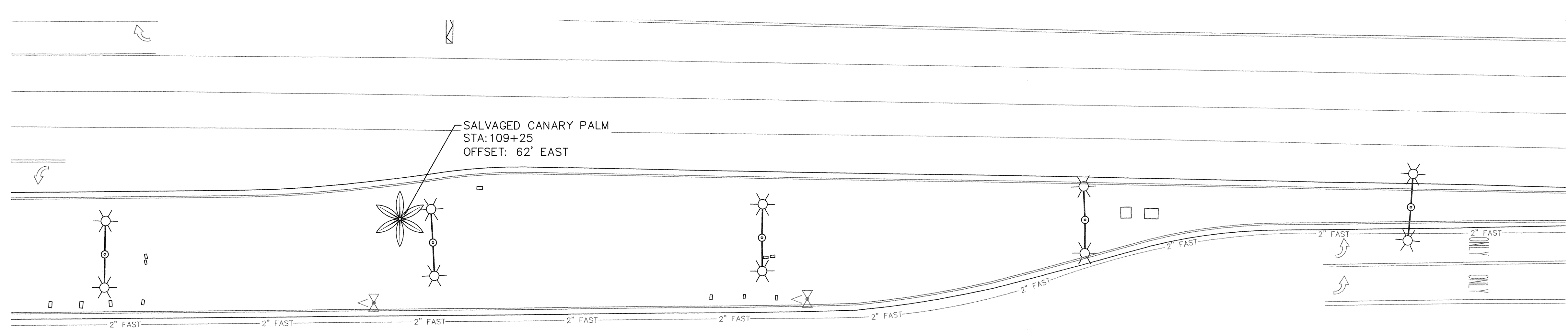


DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 11-15-2019

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

SCALE	SHEET No
HORIZ: 1" = 20'	IS-02
VERT: N/A	SHEET 260 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION



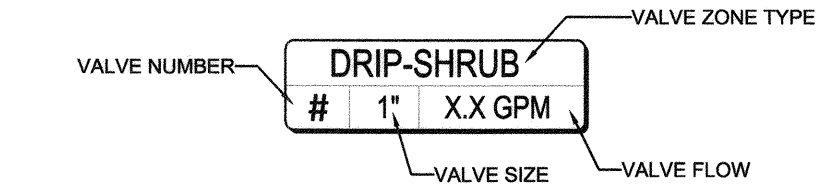
LANDSCAPE SCHEDULE

TREES		
SYMBOL	BOTANICAL NAME / COMMON NAME	QTY
	Tree to be Removed	3
	Salvaged Canary Palm (See Sheet 225, Detail 2)	21

IRRIGATION SCHEDULE

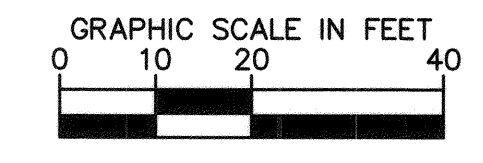
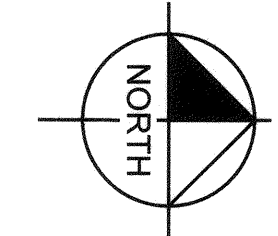
SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	Hunter Node-200; 2 Zone Controller Install per Manufacturer's Specifications in Valve Box	2
	Rainbird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves	2
	Drip Zone Flush End Cap (See Sheet 231, Detail 5)	4
EMITTERS	Palms: Rain Bird RWS-B-C-1402 (2 per Tree, See Sheet 231, Detail 8)	42

SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC 4" Mainline Sleeve, Spears or Equal "X" Indicates Quantity	275 LF
	SCH 40 PVC Mainline - 1-1/2"	730 LF
	SCH 40 PVC Palm Lateral Pipe (Size per table below)	496 LF
FLOW (GPM) PIPE SIZE		
0-6.0	3/4"	
6.1-10	1"	
10+	1-1/4"	



- NOTE:**
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.
 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.
 - ALL IMPACTS TO EXISTING CONDITIONS TO BE RESTORED BACK TO EXISTING CONDITIONS AT NO ADDITIONAL COST.

CONTRACTOR TO EXTEND CURRENT PALM LATERAL TO SALVAGED CANARY PALM AND ADD TWO EMITTERS PER PALM. SEE IRRIGATION SHEET 231, DETAIL 8.



811
know what's below
Call before you dig

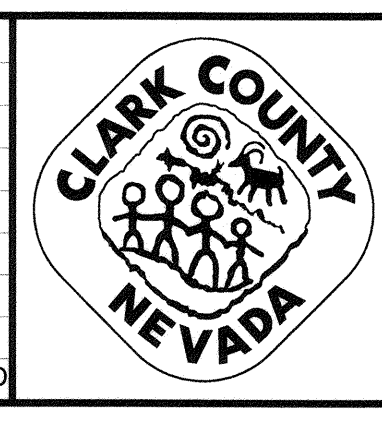
SAFETY ALERT
Call Before You Overhead
1-702-227-2829

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

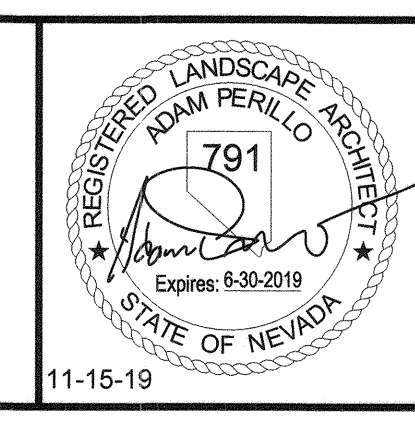
Call Before You Under Ground
1-702-432-5300
1-800-336-9193

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APPROVED		



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



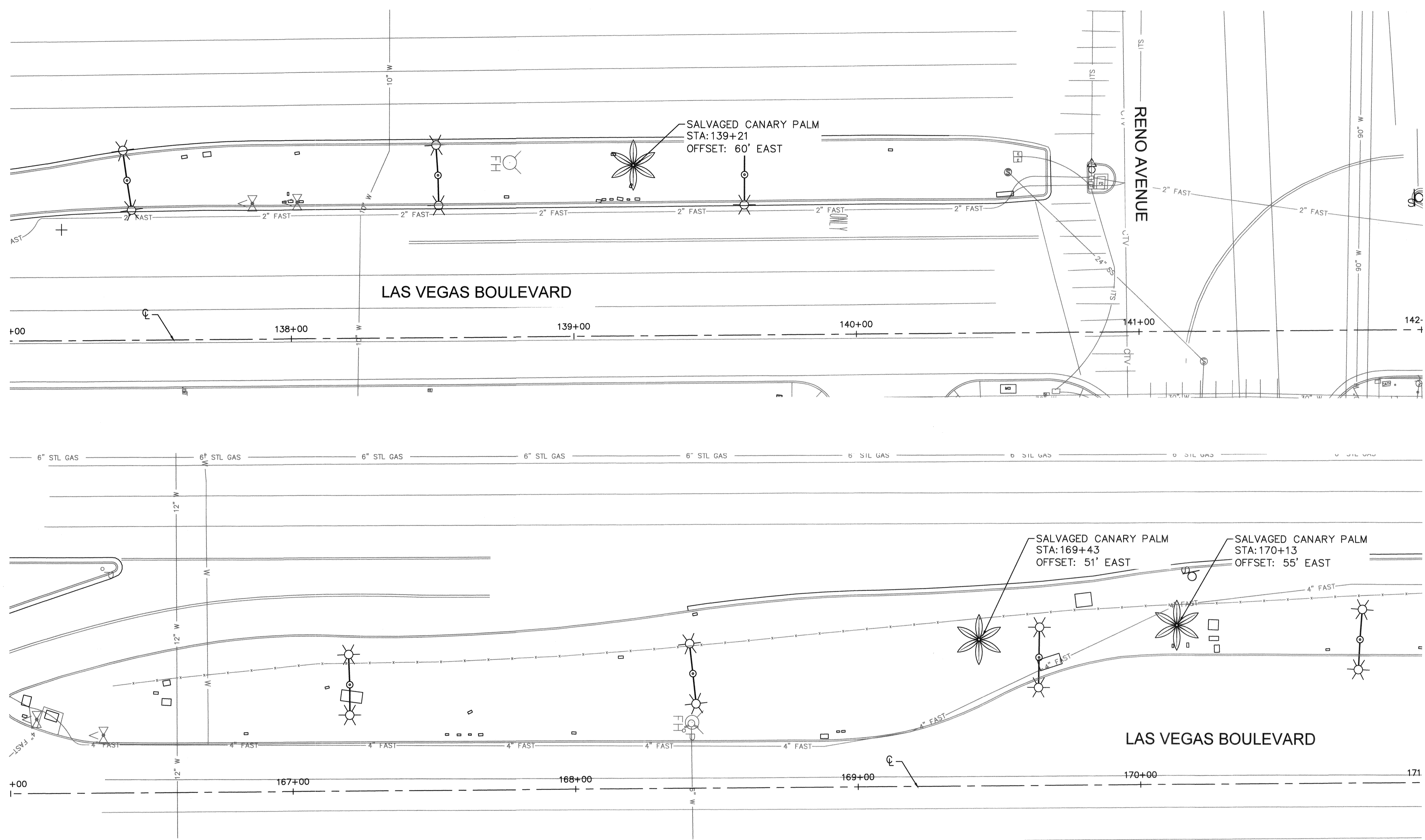
DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 11-15-2019

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

SCALE		SHEET No
HORIZ:	1" = 20'	IS-03
VERT:	N/A	
FIELD BOOK:	NONE	
		SHEET 261 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



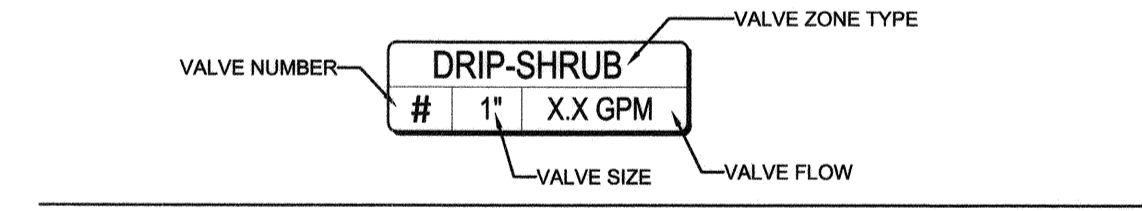
LANDSCAPE SCHEDULE

TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	QTY
	Tree to be Removed	3
	Salvaged Canary Palm (See Sheet 225, Detail 2)	21

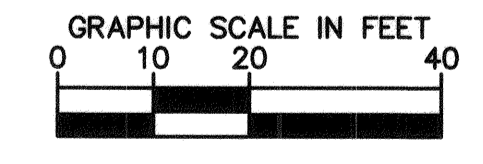
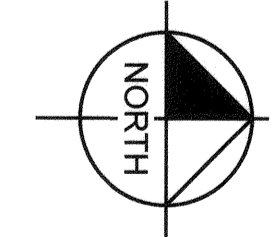
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	Hunter Node-200; 2 Zone Controller Install per Manufacturer's Specifications in Valve Box	2
	Rainbird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves	2
	Drip Zone Flush End Cap (See Sheet 231, Detail 5)	4
EMITTERS	Palms: Rain Bird RWS-B-C-1402 (2 per Tree, See Sheet 231, Detail 8)	42
SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC 4" Mainline Sleeve, Spears or Equal "X" Indicates Quantity	275 LF
SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC Mainline - 1-1/2"	730 LF
	SCH 40 PVC Palm Lateral Pipe (Size per table below)	496 LF
FLOW (GPM)	PIPE SIZE	
0-6.0	3/4"	
6.1-10	1"	
10+	1-1/4"	



- NOTE:**
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CONTRACTOR TO EXTEND CURRENT PALM LATERAL TO SALVAGED CANARY PALM AND ADD TWO EMITTERS PER PALM. SEE IRRIGATION SHEET 231, DETAIL 8.



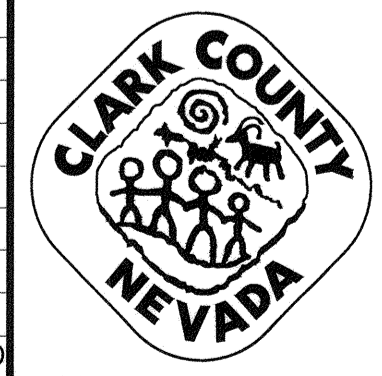
811
Call Before You Dig
Know what's below
Call before you dig

SAFETY ALERT
Call Before You Overhead
1-702-227-2829

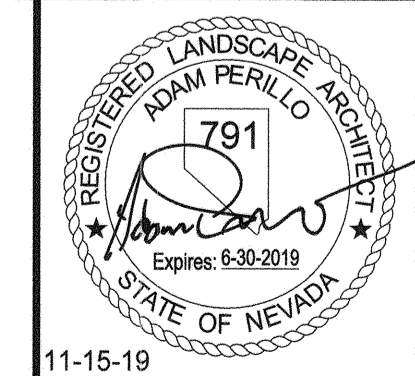
UNION PACIFIC RAILROAD
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1-800-338-9193

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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
SALVAGE PLAN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



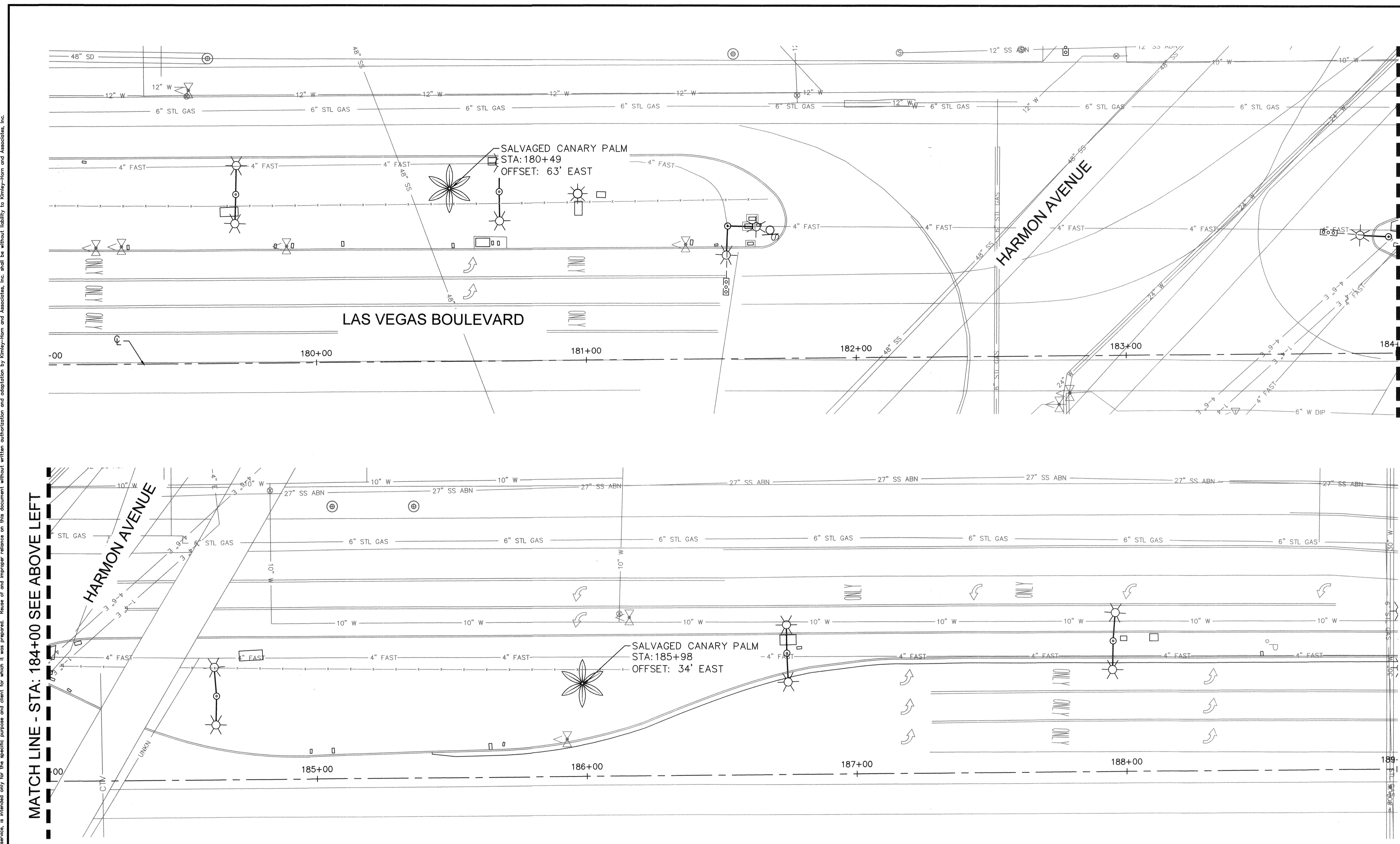
DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 11-15-2019

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

SCALE		SHEET No
HORIZ:	1" = 20'	IS-04
VERT:	N/A	
FIELD BOOK	NONE	SHEET 262 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

BID No.: 605203-19

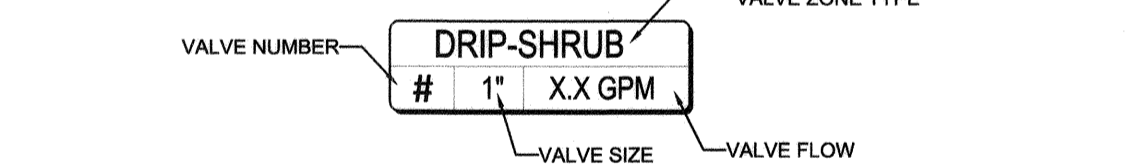


LANDSCAPE SCHEDULE

TREES		
SYMBOL	BOTANICAL NAME / COMMON NAME	QTY
	Tree to be Removed	3
	Salvaged Canary Palm (See Sheet 225, Detail 2)	21

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	Hunter Node-200; 2 Zone Controller Install per Manufacturer's Specifications in Valve Box	2
	Rainbird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves	2
	Drip Zone Flush End Cap (See Sheet 231, Detail 5)	4
	Palms: Rain Bird RWS-B-C-1402 (2 per Tree, See Sheet 231, Detail 8)	42
EMITTERS		
SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC 4" Mainline Sleeve, Spears or Equal "X" Indicates Quantity	275 LF
PIPE SCHEDULE		
SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC Mainline - 1-1/2"	730 LF
	SCH 40 PVC Palm Lateral Pipe (Size per table below)	496 LF
	FLOW (GPM) PIPE SIZE	
	0-6.0 3/4"	
	6.1-10 1"	
	10+ 1-1/4"	



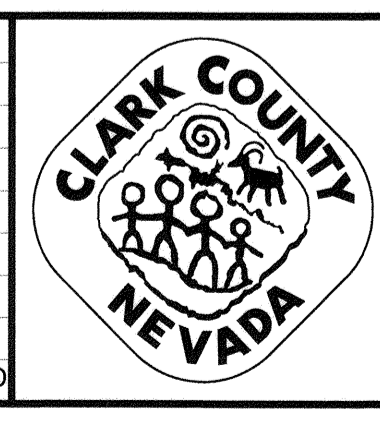
- NOTE:**
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 - ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.
 - ALL IMPACTS TO EXISTING CONDITIONS TO BE RESTORED BACK TO EXISTING CONDITIONS AT NO ADDITIONAL COST.

MATCH LINE - STA: 184+00 SEE ABOVE LEFT

MATCH LINE - STA: 184+00 SEE BELOW LEFT

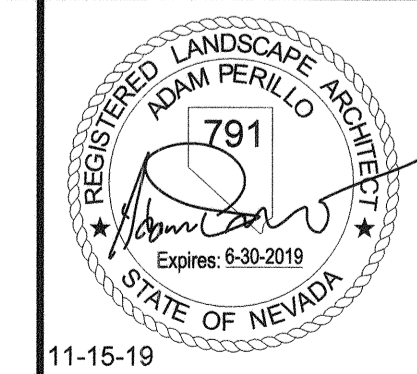
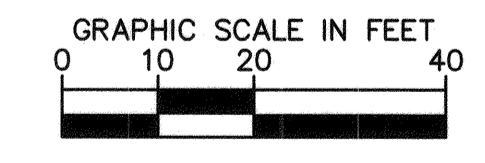
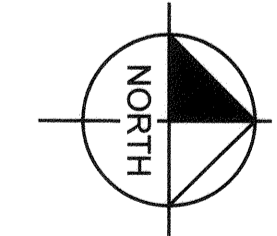
User: fernando.roez
Path: K:\New_Publications\092016\cc\021-16_roadway-signal\CAD\plansheets\landscape\Phase 1_LIS.dwg /
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NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



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

CONTRACTOR TO EXTEND CURRENT PALM LATERAL TO SALVAGED CANARY PALM AND ADD TWO EMITTERS PER PALM. SEE IRRIGATION SHEET 231, DETAIL 8.



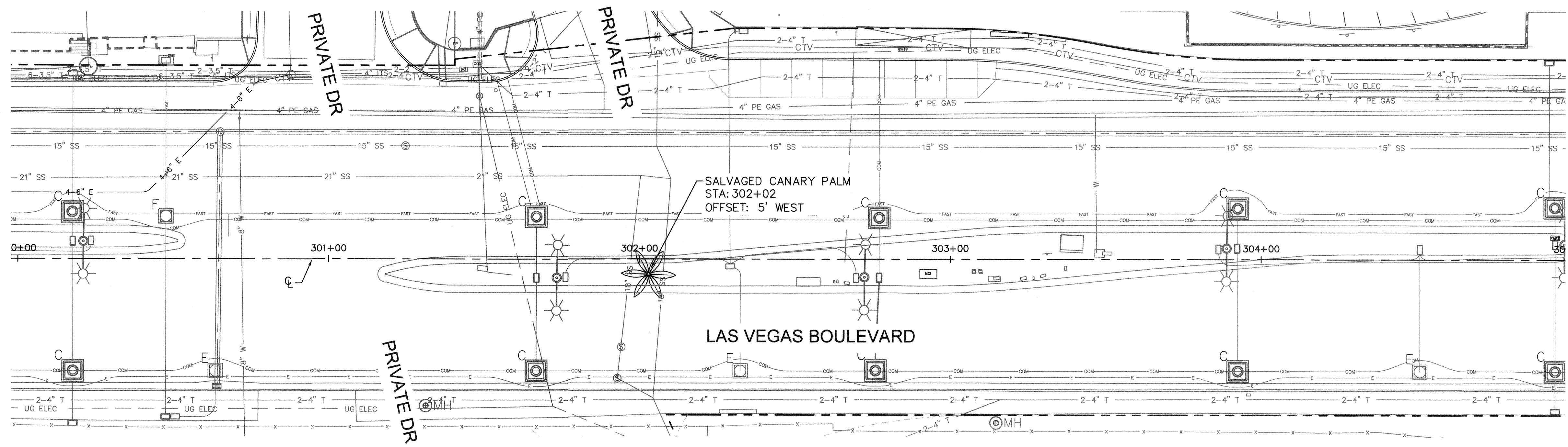
DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 11-15-2019

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

SCALE	HORIZ: 1" = 20'	SHEET No
	VERT: N/A	IS-05
FIELD BOOK	NONE	SHEET 263 OF 345
		L-2210

ISSUED FOR CONSTRUCTION

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS



SALVAGED CANARY PALM
STA: 302+02
OFFSET: 5' WEST

LAS VEGAS BOULEVARD

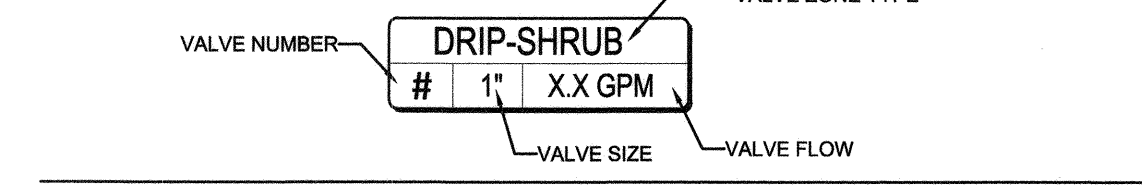
CONTRACTOR TO EXTEND CURRENT PALM LATERAL TO SALVAGED CANARY PALM AND ADD TWO EMITTERS PER PALM. SEE IRRIGATION SHEET 231, DETAIL 8.

LANDSCAPE SCHEDULE

TREES		
SYMBOL	BOTANICAL NAME / COMMON NAME	QTY
	Tree to be Removed	3
	Salvaged Canary Palm (See Sheet 225, Detail 2)	21

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	Hunter Node-200; 2 Zone Controller Install per Manufacturer's Specifications in Valve Box	2
	Rainbird 100-PEB-PRS-D Valve Kit with Pressure Regulating Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves	2
	Drip Zone Flush End Cap (See Sheet 231, Detail 5)	4
EMITTERS	Palms: Rain Bird RWS-B-C-1402 (2 per Tree, See Sheet 231, Detail 8)	42
PIPE SCHEDULE		
SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC 4" Mainline Sleeve, Spears or Equal "X" Indicates Quantity	275 LF
LATERAL PIPE SCHEDULE		
SYMBOL	SIZE AND DESCRIPTION	QTY
	SCH 40 PVC Mainline - 1-1/2"	730 LF
	SCH 40 PVC Palm Lateral Pipe (Size per table below)	496 LF
	FLOW (GPM) PIPE SIZE	
	0-6.0 3/4"	
	6.1-10 1"	
	10+ 1-1/4"	

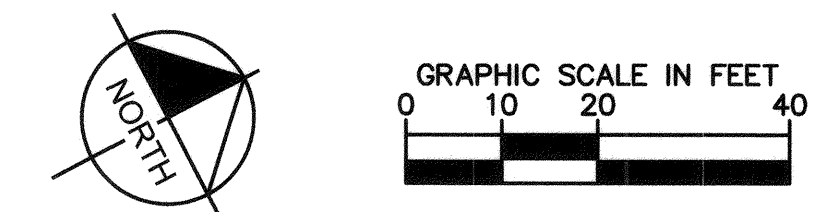


- NOTE:**
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811
Call Before You Dig
know what's below
Call before you dig

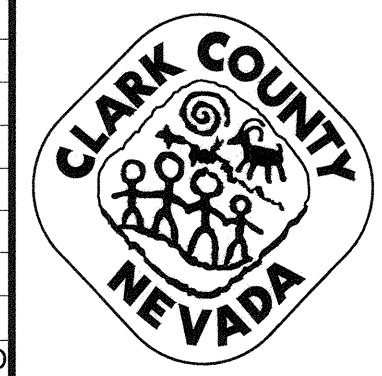
SAFETY ALERT
Call Before You Overhead
1-702-227-2929

UNION PACIFIC RAILROAD
Call Before You Dig
1-702-432-5300

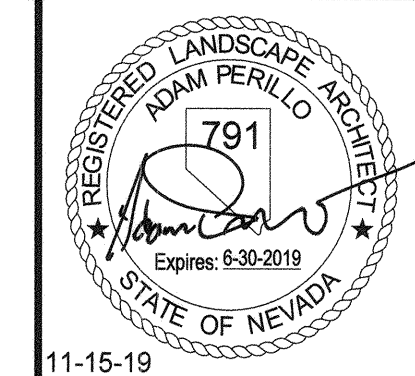


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NO.	REVISIONS	DATE
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2	REVISED PER REVISION NO. 2	11/15/2019
APPROVED		



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



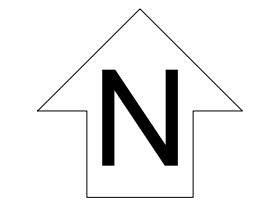
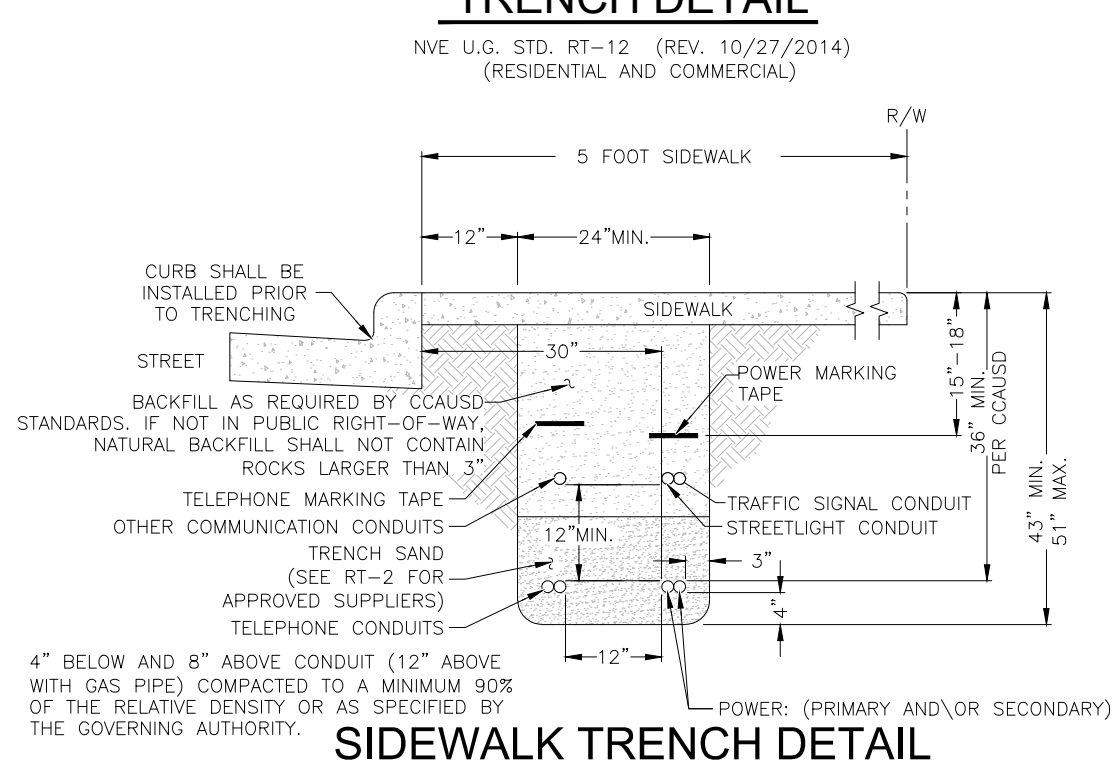
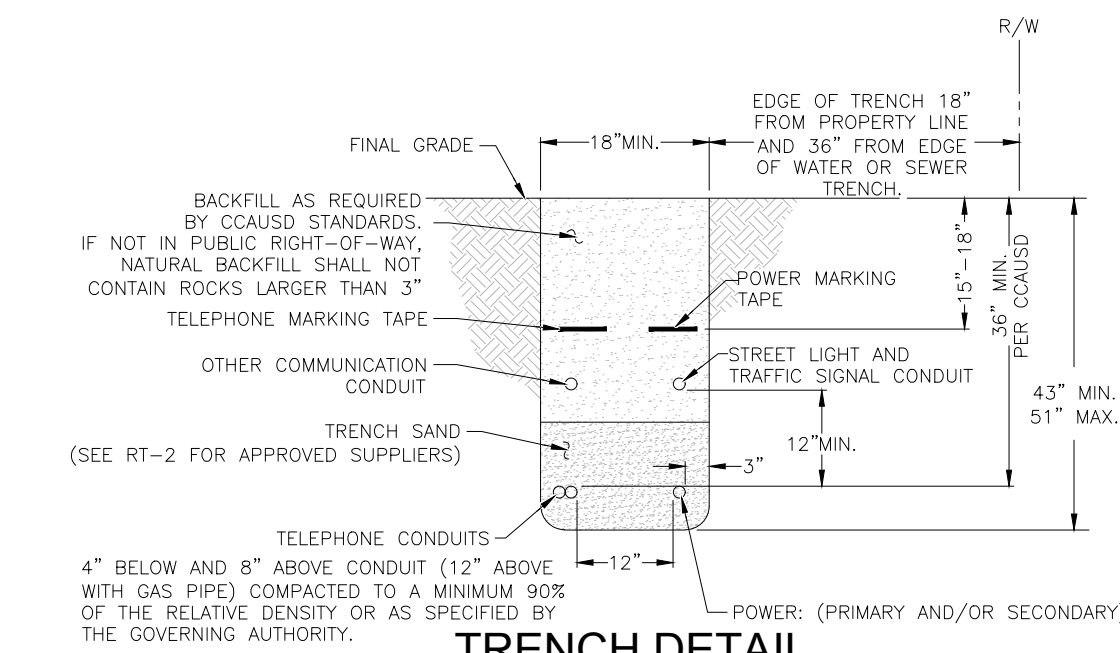
DESIGNED BY: CAL
DRAWN BY: CAL
CHECKED BY: ACP
DATE: 11-15-2019

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

SCALE	SHEET No
HORIZ: 1" = 20'	IS-06
VERT: N/A	SHEET 264 OF 345
FIELD BOOK: NONE	L-2210

ISSUED FOR CONSTRUCTION

BID NO.: 605203-19



T,R,S: 21-61-09
 APN: 162-09-799-002
 162-09-699-006
 162-09-699-004
 162-09-699-001

GENERAL NOTES:

ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION, APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.

APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETE 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.

2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.

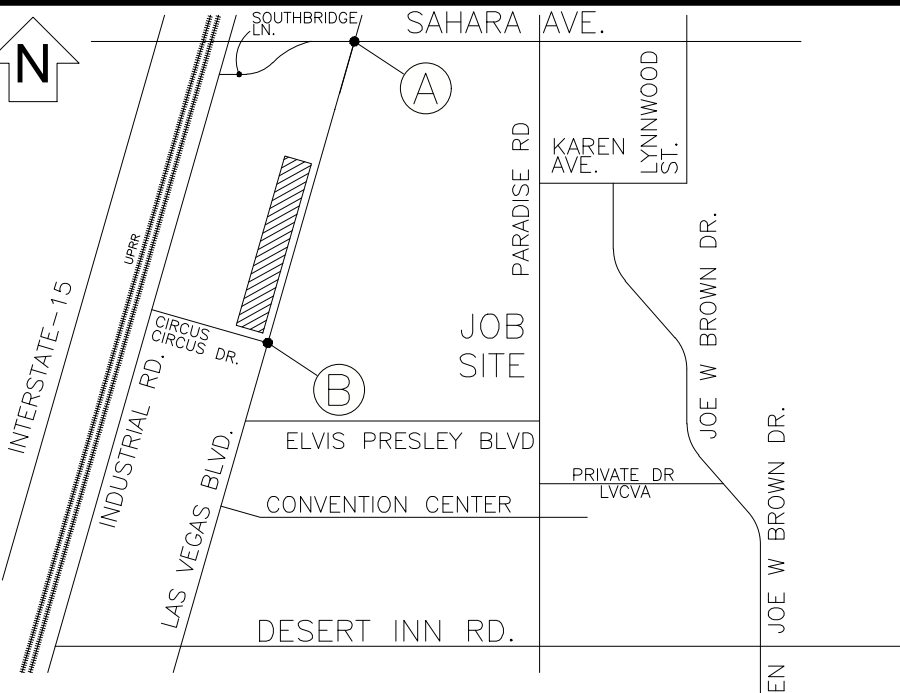
WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

CIVIL LINETYPE LEGEND

CENTERLINE	---
PROPERTY LINE/ROW	----
CURB	-----
EDGE OF PAVEMENT	-----
EDGE OF SIDEWALK	-----
SEWER LINE	-----
WATER LINE	-----
COHW WATER LINE	-----
LWWD WATER LINE	-----
SNWA WATER LINE	-----
GAS LINE	-----
TELEPHONE LINE	-----
CABLE TV LINE	-----
CABLE TV LINE	-----
STORM DRAIN LINE	-----
FIRE HYDRANT	-----
SIGNAL LIGHT	-----
STREET LIGHT	-----



VICINITY MAP (NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

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 CALL BEFORE YOU DO OVERHEAD

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

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 OR 1-800-227-2600
 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	SHIFTED MH60988 130' FT TO THE SOUTH & RE-ROUTED ADDITIONAL 6" CONDUIT (0013 & 0022) TO MH60988. SHEET 2 & 3	11/1/2019	JM
2	REVISED SWITCHYARD DETAIL 'SW-1' & STATION TABLE DUE TO FIELD CONDITIONS. SHEETS 2 & 3	1/6/2020	

NON-STANDARD PROJECT PURPOSE:

TO INSTALL CONDUIT ONLY FOR FUTURE RELOCATION OF OVERHEAD POLE LINE

EXHIBIT 'A'

NVEnergy INFORMATION:
 COORDINATOR: JACKSON, DON
 PHONE: (702) 236-3259 D.F. KL
 DESIGNER: MARTINEZ, JONATHAN
 DCA: N/A
 INSPECTOR: 702-402-3008 OR UG@NVENERGY.COM
 STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
 DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION:
 JPA ADMIN PHONE: N/A JPA#: N/A

CUSTOMER INFORMATION:
 APPLICANT: COUNTY OF CLARK
 APPLICANT CONTACT: YAZDANI, KAIZAD
 CONTACT: AHARTZ, SHANNON ** 702-862-3634
 APPROVAL DATE: 7/25/2019

GOVERNMENT INFORMATION:
 AGENCY(S): CLARK

APPROVAL DATE(S): 10/21/2019

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATT/OUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

STREETLIGHT CLEARANCE:

NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

NOTICE:

THIS EXHIBIT IS THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF NV ENERGY AND MAY NOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF NV ENERGY.

THE IMAGES HEREON ARE NOT ORTHOPHOTOGRAPHIC. ANY LOCATIONS DEPICTED HEREON ARE APPROXIMATE ONLY. THIS EXHIBIT WAS CREATED FOR GENERAL PRESENTATION AND DISCUSSION PURPOSES ONLY AND IS NOT PURPORTED TO REPRESENT ANY MEASURE OF ACCURACY. THIS EXHIBIT IS NOT TO BE UTILIZED IN ANY MANNER NOT CONSISTENT WITH THE INTENT OF ITS' CREATION AS STATED ABOVE.

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

CONSTRUCTION / INSPECTION REQUIREMENTS

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstructionS/servicesstandards.cfm

NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:
 1. BOTTOM SAND AND CONDUIT INSTALLED
 2. TOP SAND INSTALLED
 3. BACKFILL INSTALLED

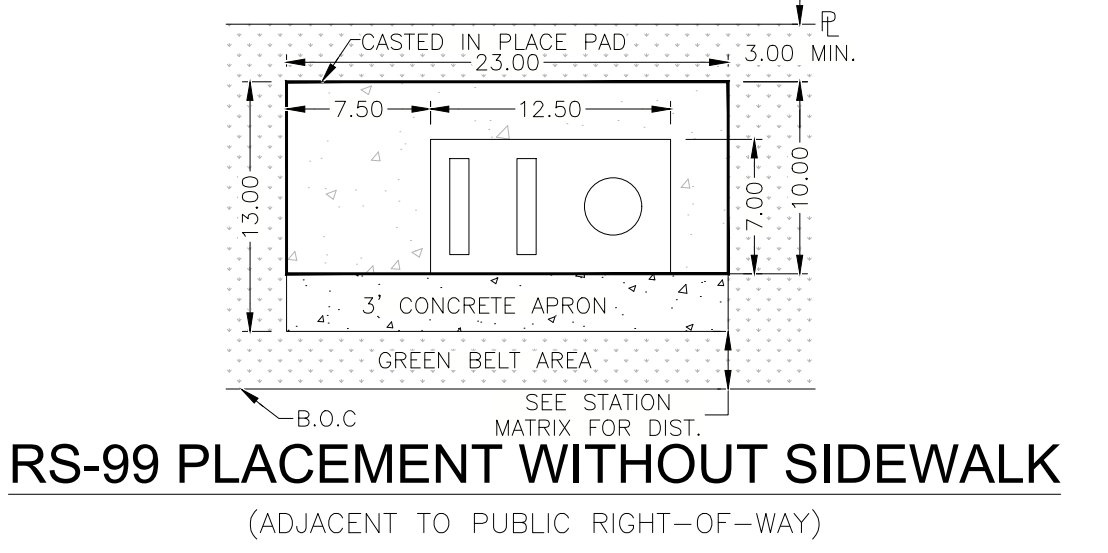
CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).

NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.

NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:
 • [INSTUMENT-BASED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com)
 • APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_orch/new_construction/meter_set.pdf
 • THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
 • METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS, ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstructionS/developerdashboard.cfm



RS-99 PLACEMENT WITHOUT SIDEWALK
 (ADJACENT TO PUBLIC RIGHT-OF-WAY)

FIRE HYDRANT CLEARANCE:

6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.
 6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVEnergy STD. RS-5

NVEnergy REQUIRES 24 HOUR ACCESS TO EQUIPMENT

!!!! CAUTION !!!!
 ENERGIZED CABLES...
 CALL BEFORE YOU DIG

NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)

THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING DONE ON THIS PROJECT BY NV ENERGY CREWS WILL BE PERFORMED AT NIGHT TIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

APPROVED FOR PERMITTING

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NIGHT WORK: YES NO

ENCROACHMENT PERMIT # _____

APPROVAL BY: _____ DATE _____

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED*

DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY

P/W# _____ DATE _____

* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE WITHIN COUNTY RIGHT-OF-WAY

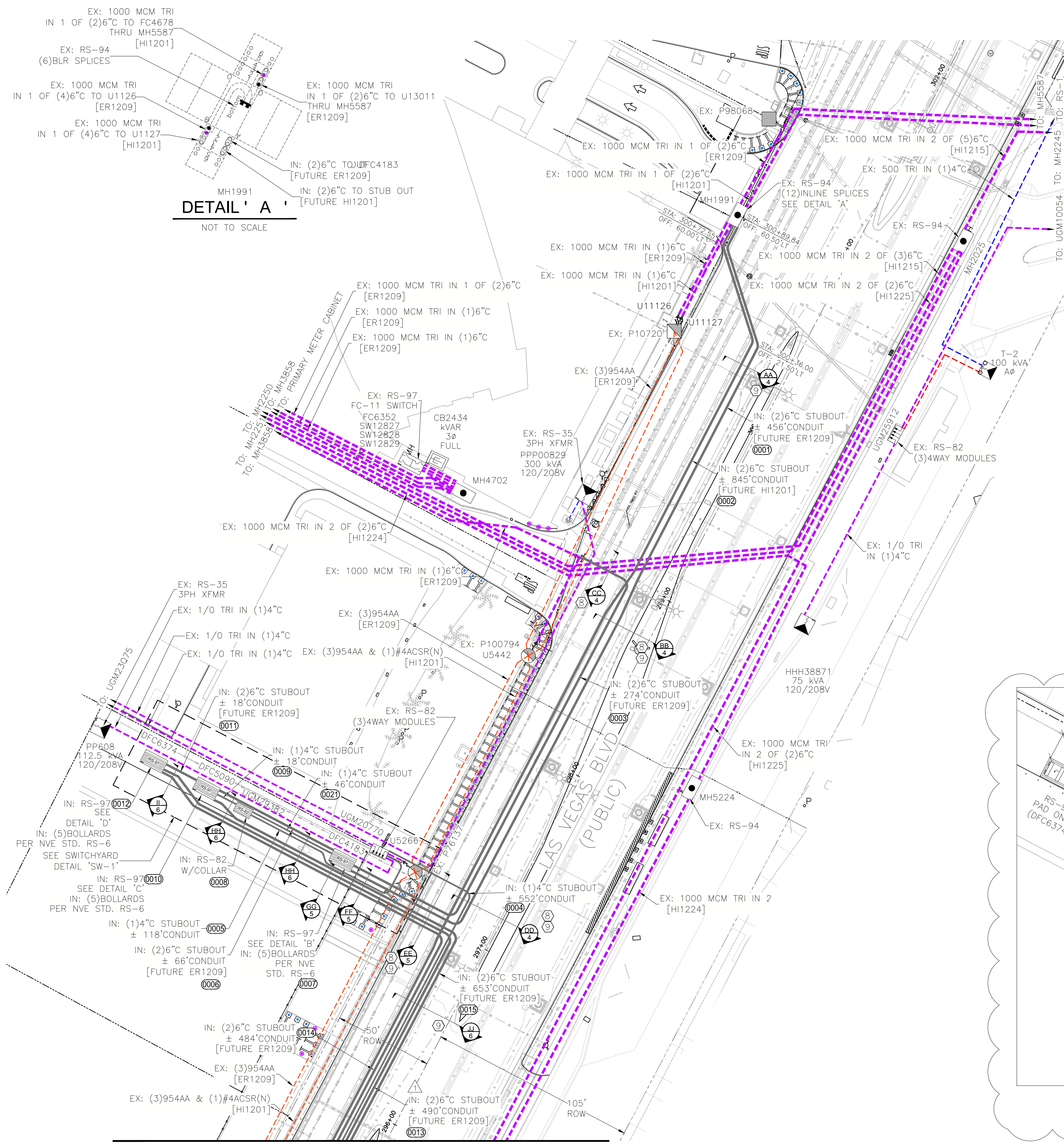
ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR.

RTC NOTES:

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

1	500.1	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT
2	500.2	0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT
3	500.3	OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT, GREATER THAN 60' R.O.W
4	500.4	OVER 5 YRS PAVEMENT RESTORATION LONGITUDINAL CUT, 60' R.O.W OR LESS
5	500.5	OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS
6	501	TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.
7	501.1	TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.
8	503	METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
9	503.1	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS
1	BACKFILL IN UNPAVED AREA AS REQUIRED BY LOCAL CODE OR AS APPROVED BY AGENCY.	
2	234	SIDEWALK
3	506	UTILITY POTHOLE REPAIR
4	216	"L" TYPE CURB AND GUTTER

CC-LAS VEGAS BLVD - CONDUITS ONLY(SPRING MOUNTAIN TO SAHARA)
LAS VEGAS BLVD (215 TO SAHARA)
PROJ #3003089008 SCALE: 1"=30'
SHEET # 1 OF 8 DATE: 2/15/2019



DETAIL 'A'
NOT TO SCALE

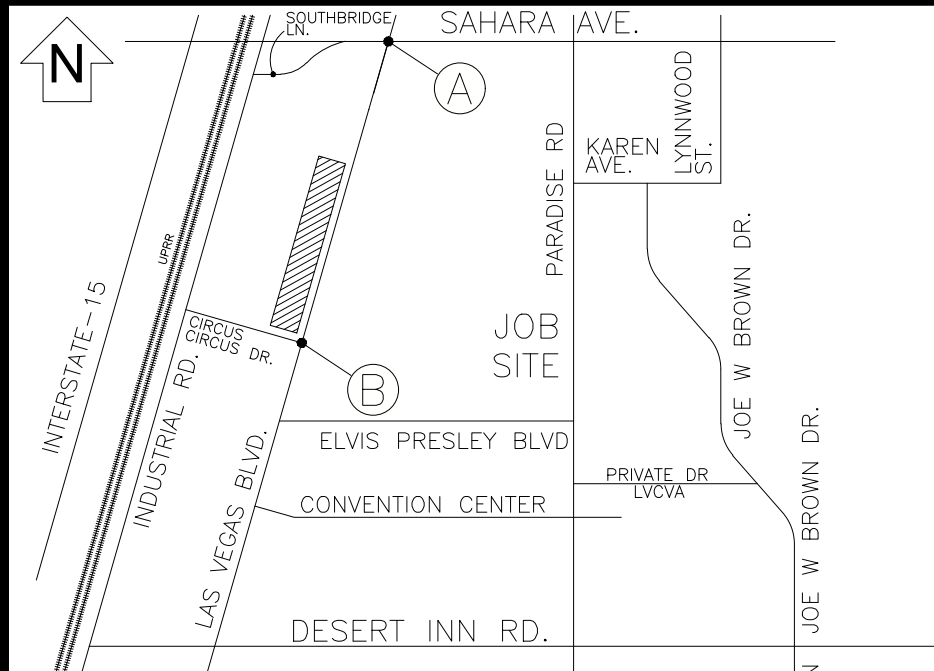
DETAIL 'B'
NOT TO SCALE

DETAIL 'C'
NOT TO SCALE

DETAIL 'D'
NOT TO SCALE

MATCH LINE 'A' - SEE SHEET 3

T,R,S: 21-61-09
APN: 162-09-799-002
162-09-699-006
162-09-699-004
162-09-699-001



VICINITY MAP
(NOT TO SCALE)

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EXHIBIT 'A'

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APPLICANT CONTACT: YAZDANI, KAIZAD
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APPROVAL DATE: 7/25/2019

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AGENCY(S): CLARK

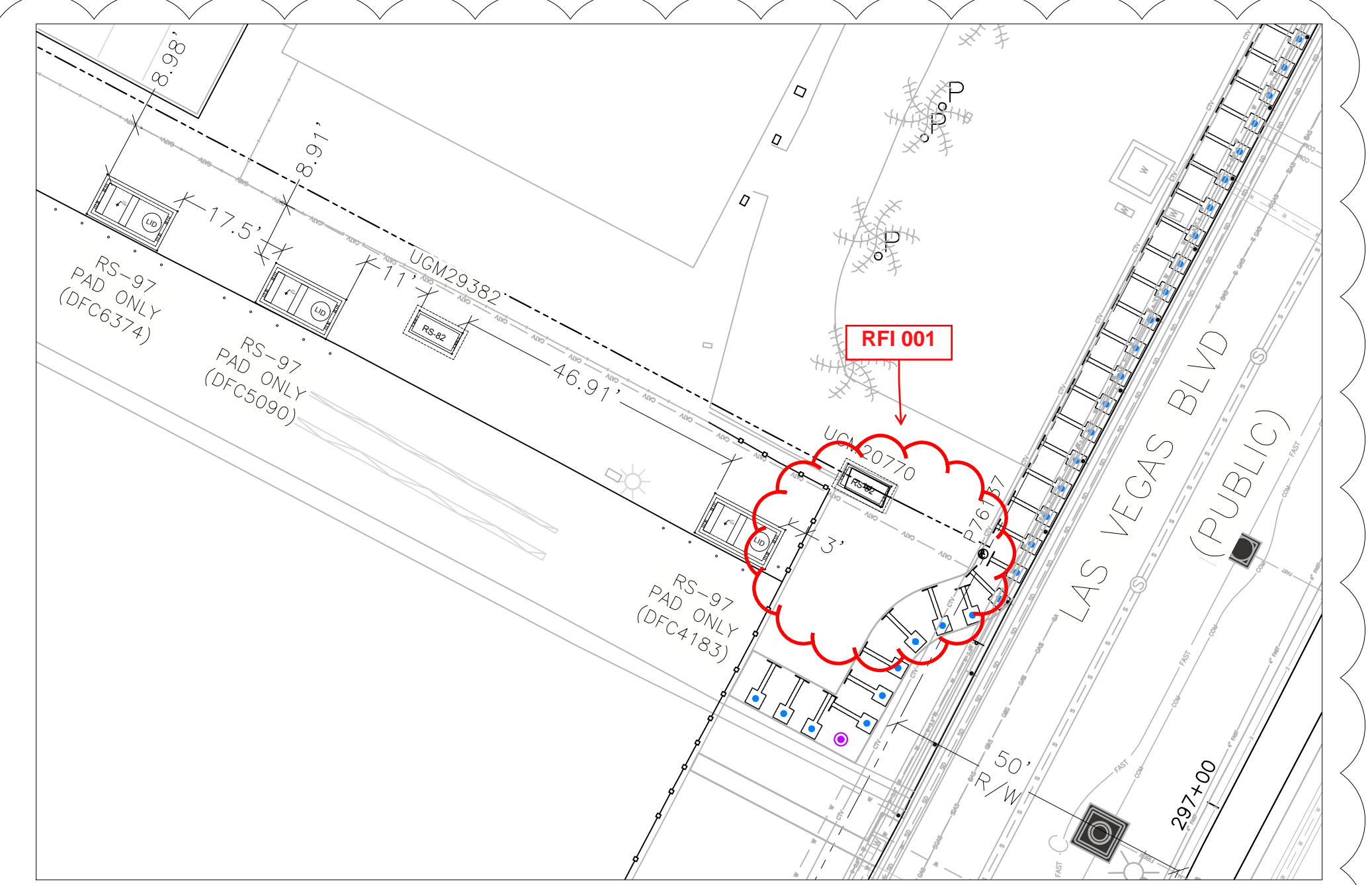
APPROVAL DATE(S): 10/21/2019

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CC-LAS VEGAS BLVD - CONDUITS ONLY (SPRING MOUNTAIN TO SAHARA)
LAS VEGAS BLVD (215 TO SAHARA)

PROJ #3003089008 SCALE: 1"=30'
SHEET # 2 OF 8 DATE: 2/15/2019

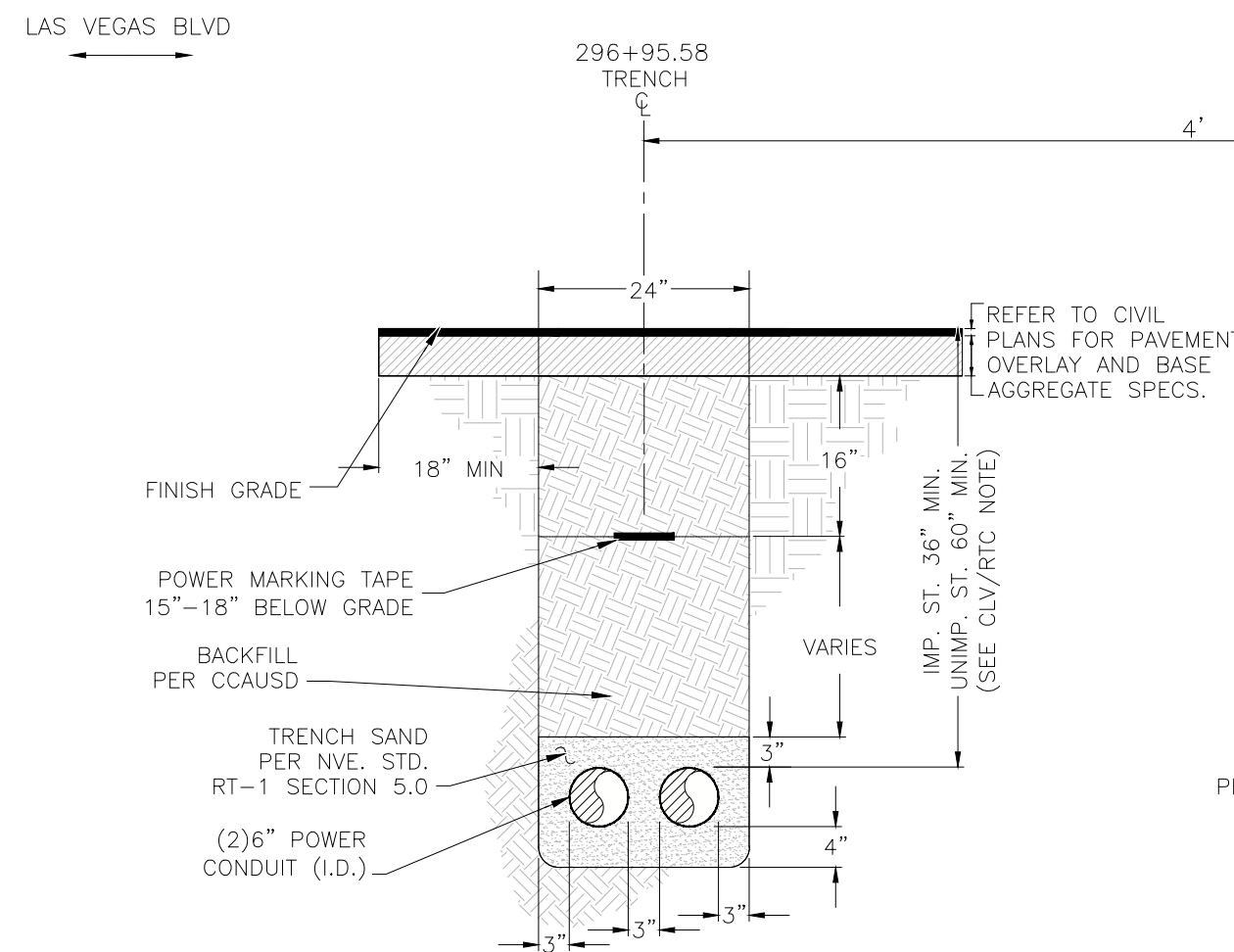


SWITCHYARD DETAIL 'SW-1'
SCALE: 1"=20'

NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)
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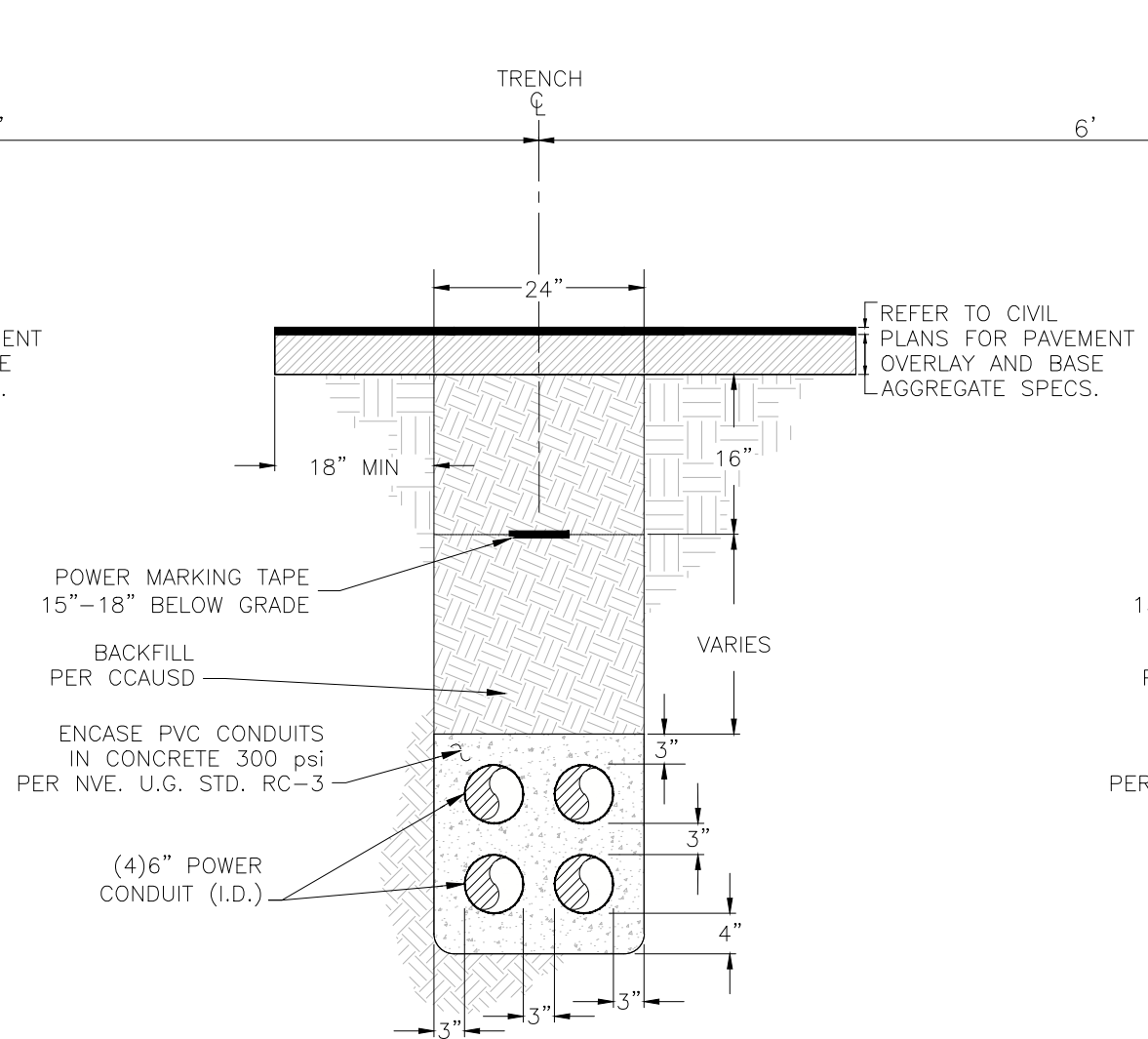
APPROVED FOR PERMITTING
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NIGHT WORK: YES NO
ENCROACHMENT PERMIT # _____
APPROVAL BY: _____ DATE _____

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED*
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PW# _____ DATE _____
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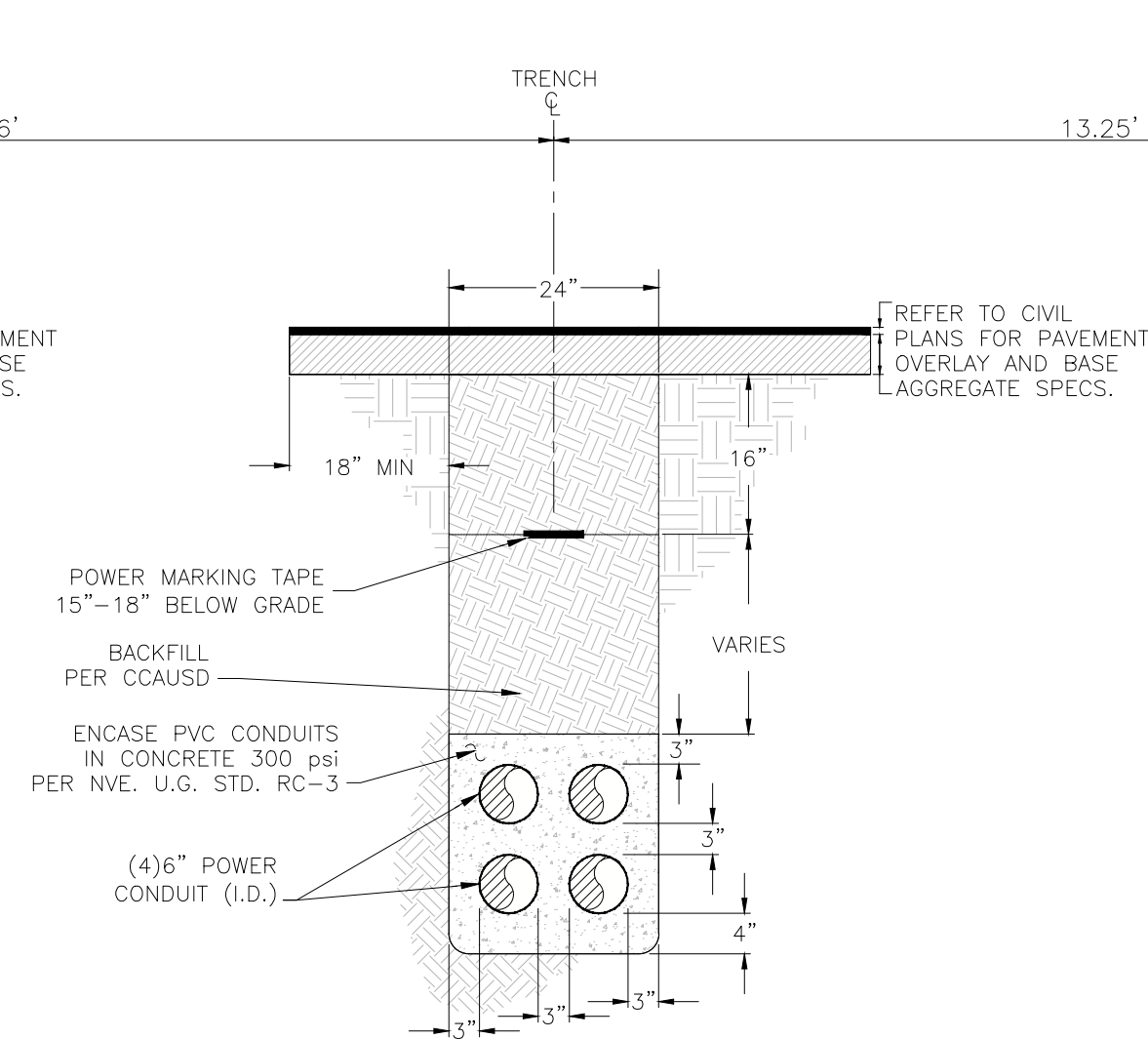


NOTES:
 REGIONAL TRANSPORTATION COMMISSION, CITY OF HENDERSON,
 CITY OF NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY
 REQUIREMENTS (SECTION 503, 503.1 & 503.2):
 METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS
 1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2'
 OR LESS IN WIDTH.
 2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY
 INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
 3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS
 BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY.
 SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
 4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN
 THE PIPE ZONE TO BE OF THE SAME MATERIAL.
 COH JURISDICTION:
 FOR ALL AREAS EXCEPT NVENERGY PIPE ZONE, THE TRENCH,
 BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.
 NVE REQUIREMENTS:
 FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS.
 BACKFILL REQUIREMENTS NVE, STD. RT-1.
 TRENCH DEPTH REQUIREMENTS NVE, STD. RT-5.

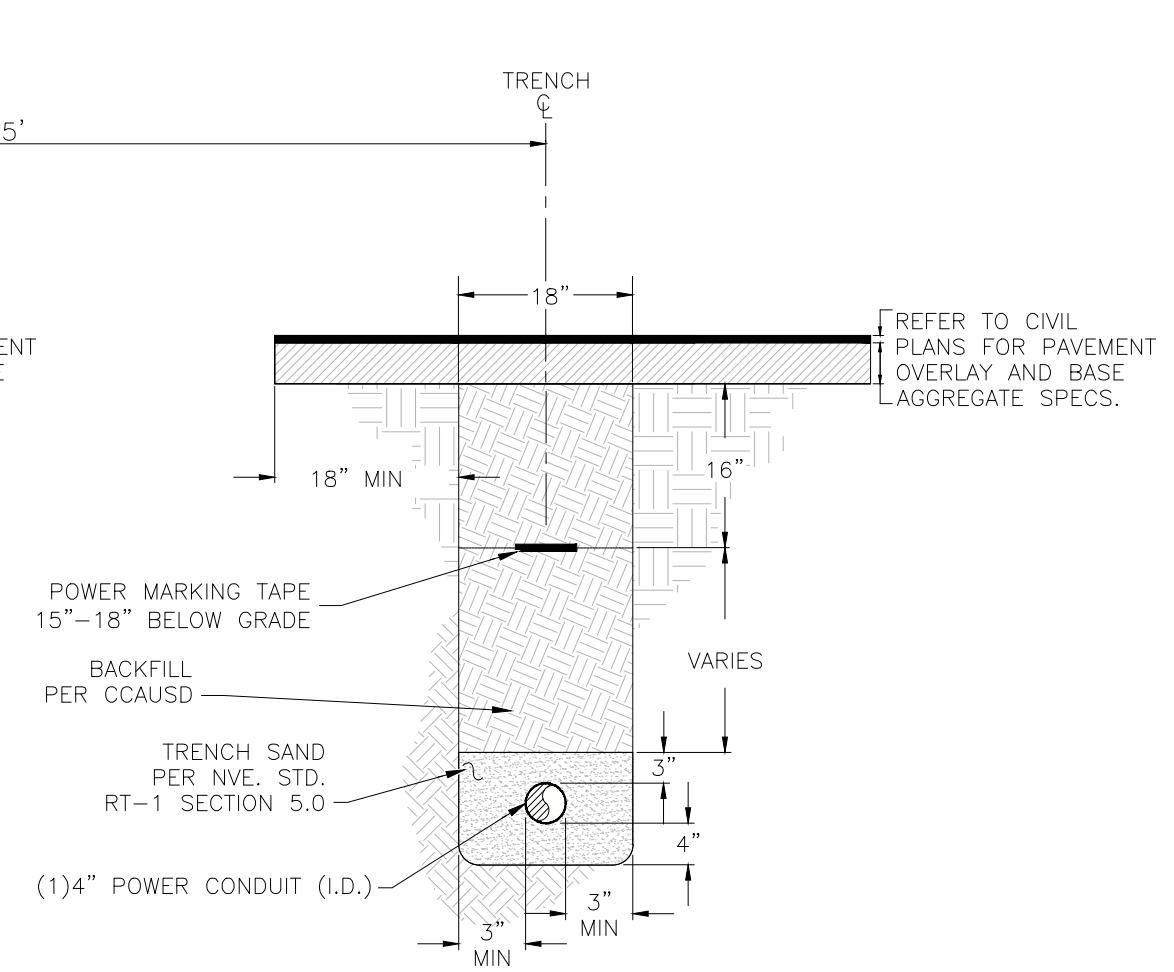
TRENCH DETAIL
 2-6" CONDUITS
 SECTION "EE"



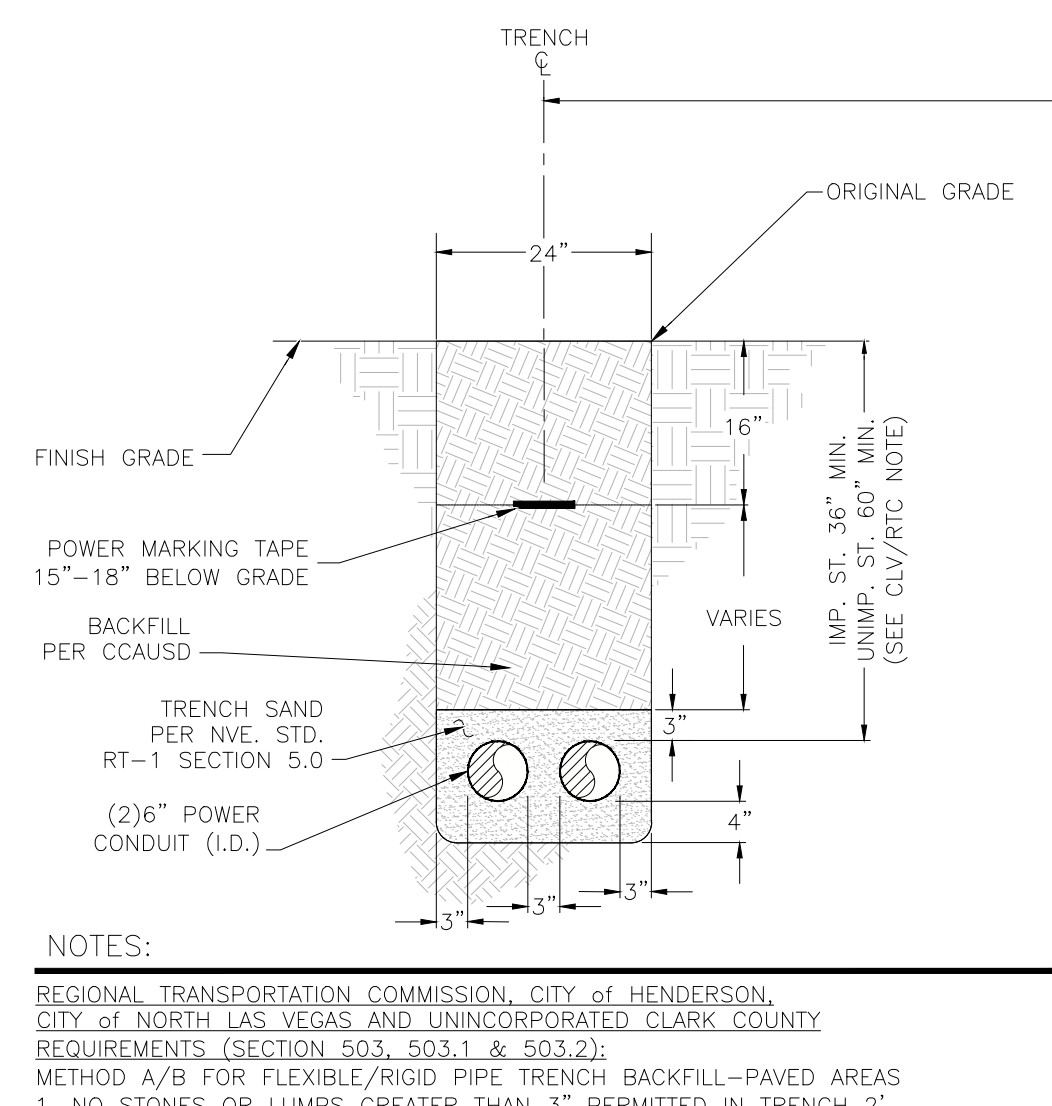
TRENCH DETAIL
 4-6" CONDUITS
 SECTION "EE"



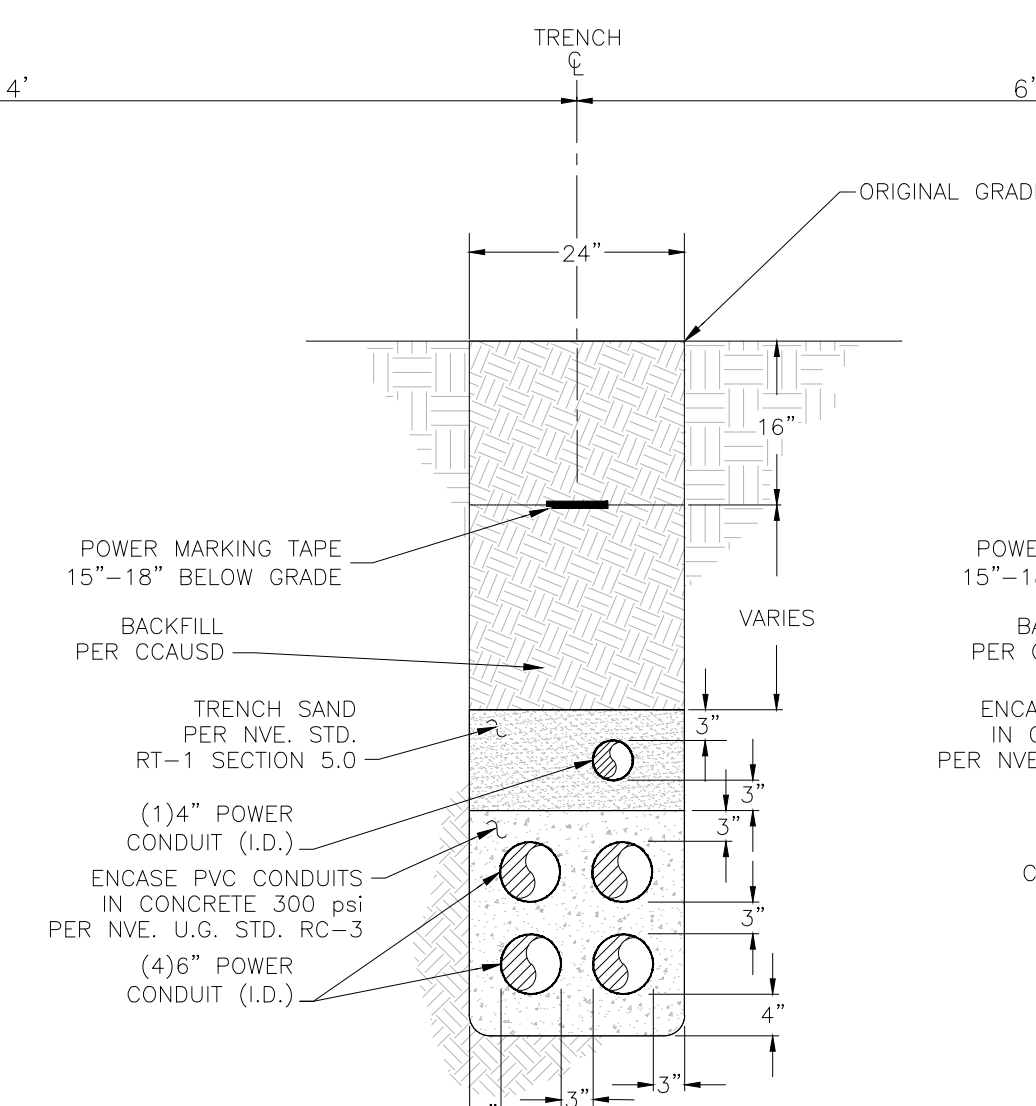
TRENCH DETAIL
 4-6" CONDUITS
 SECTION "EE"



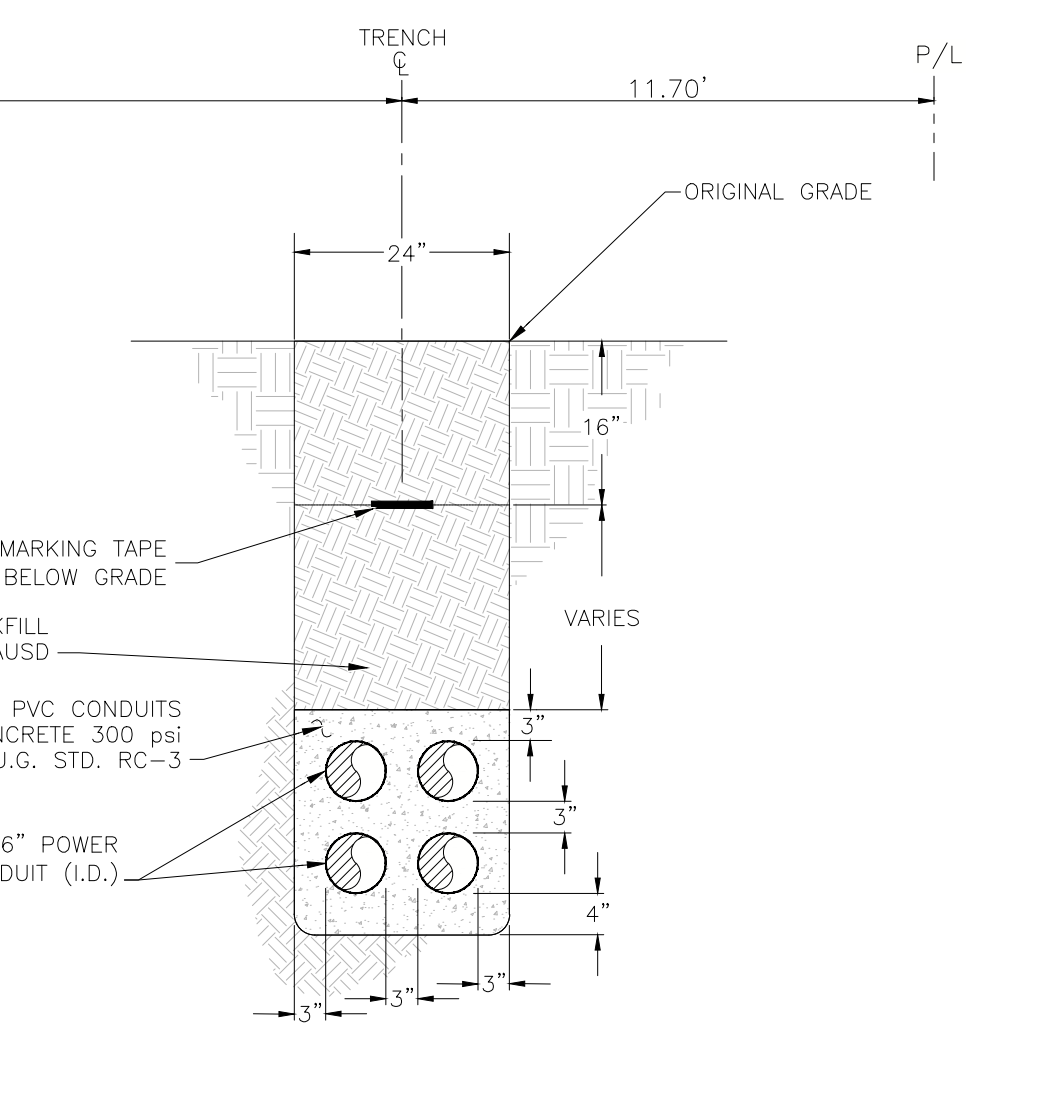
TRENCH DETAIL
 1-4" CONDUITS
 SECTION "EE"



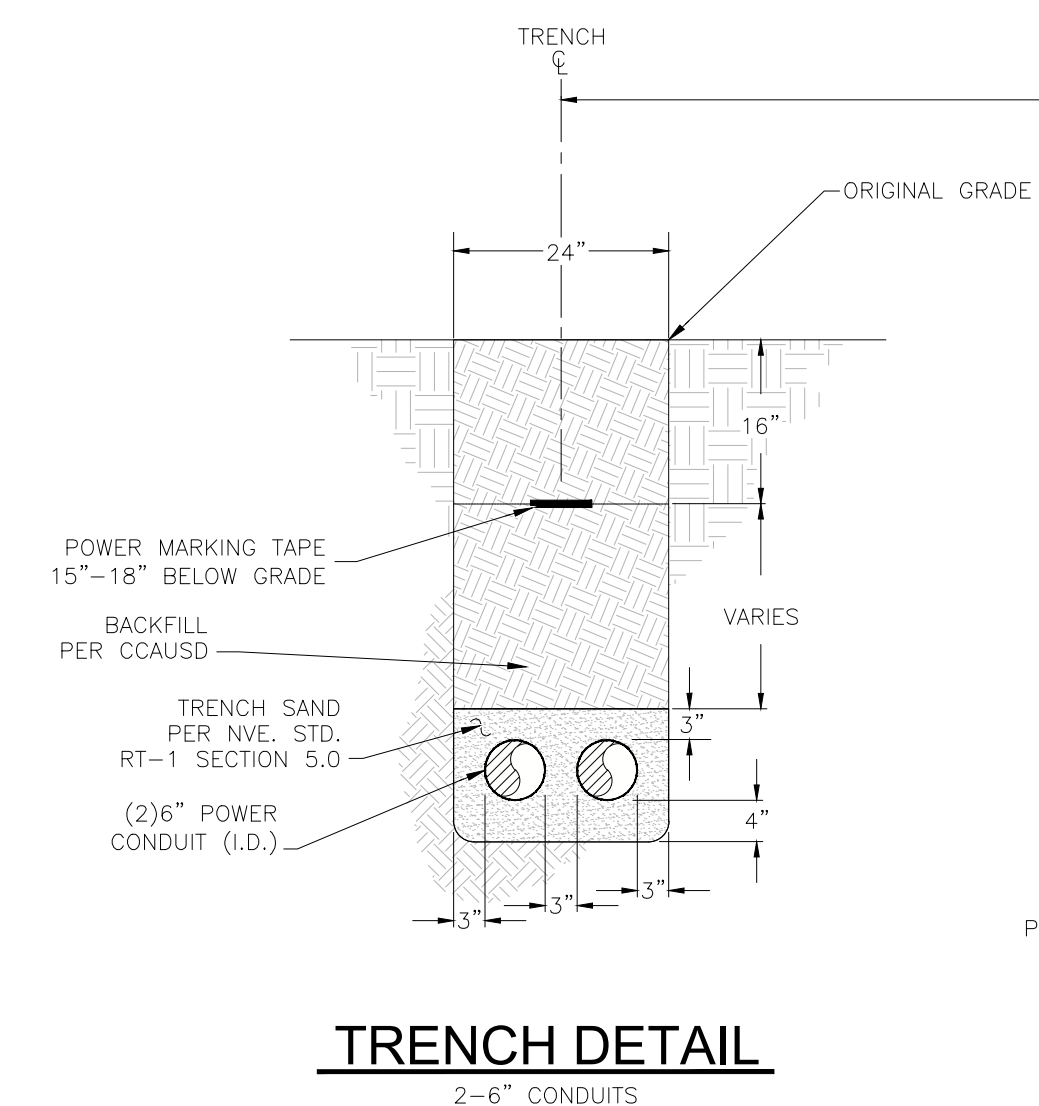
TRENCH DETAIL
 2-6" CONDUITS
 SECTION "FF"



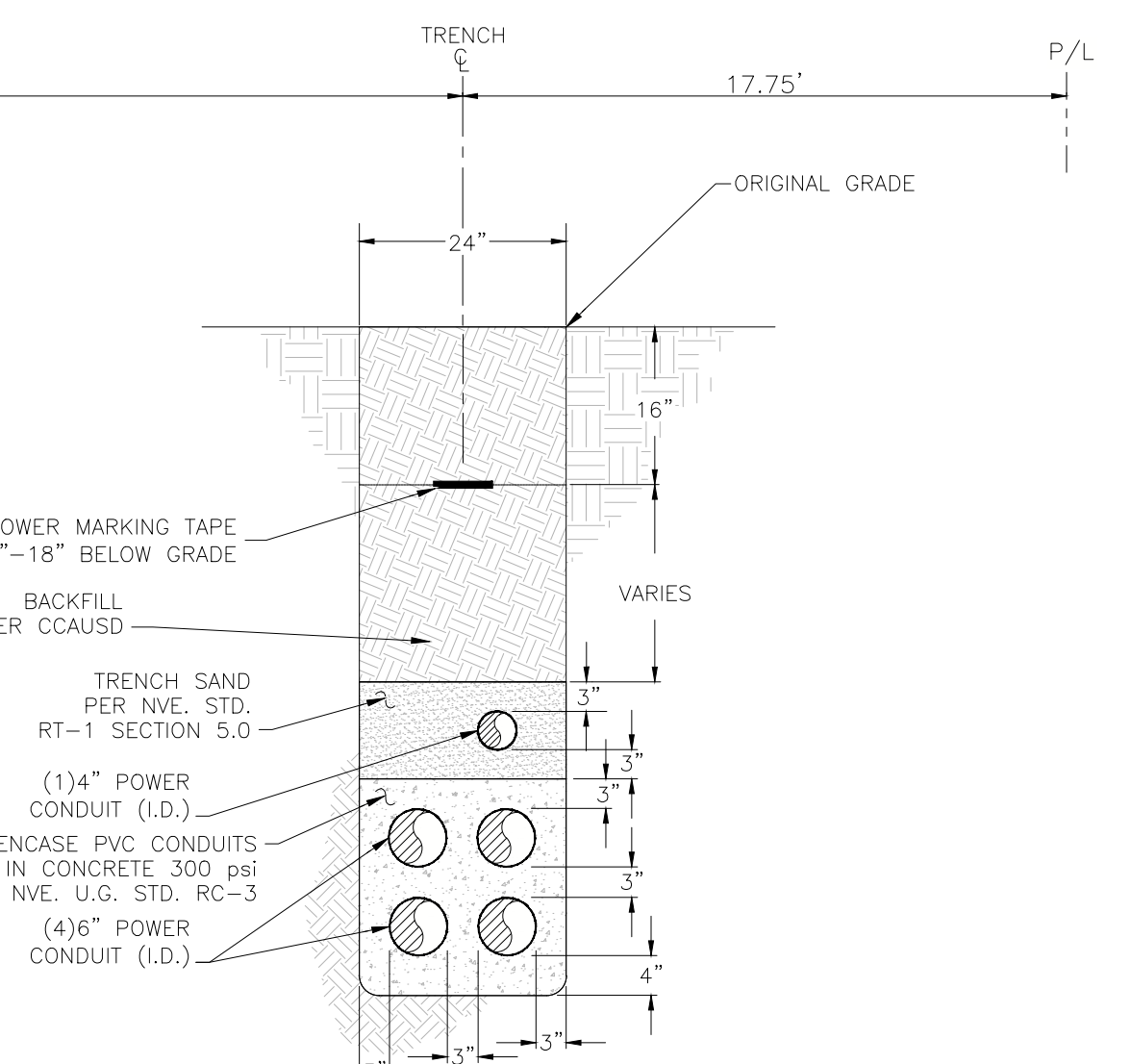
TRENCH DETAIL
 1-4" CONDUIT & 4-6" CONDUITS
 SECTION "FF"



TRENCH DETAIL
 4-6" CONDUITS
 SECTION "FF"

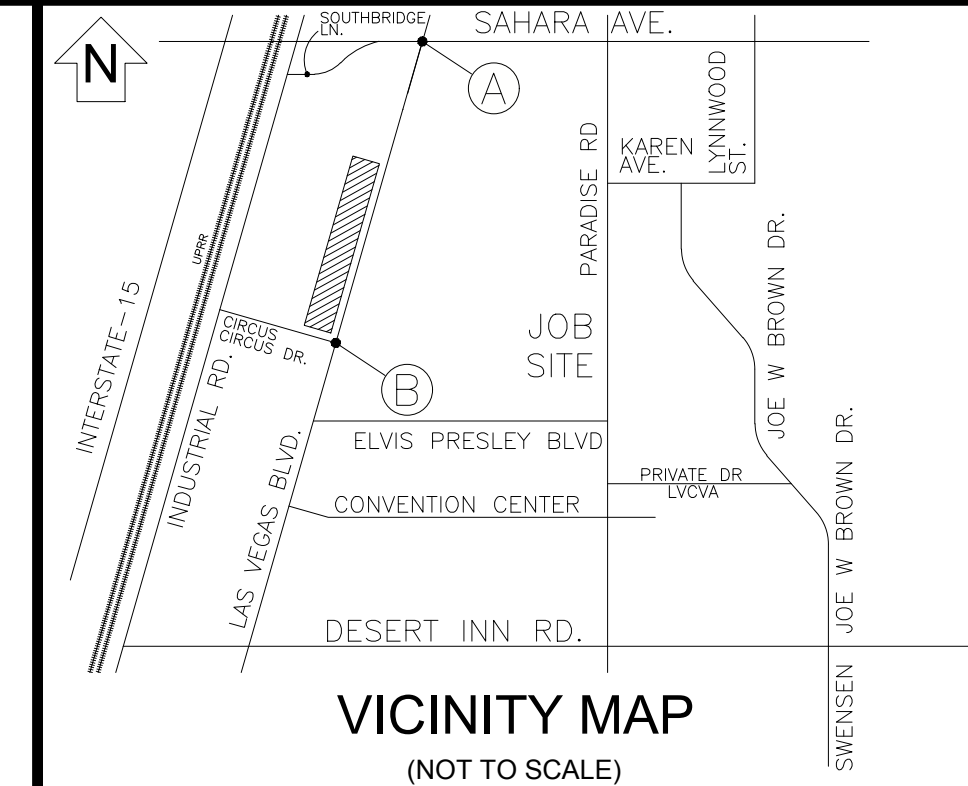


TRENCH DETAIL
 2-6" CONDUITS
 SECTION "GG"



TRENCH DETAIL
 1-4" CONDUIT & 4-6" CONDUITS
 SECTION "GG"

T,R,S: 21-61-09
 APN: 162-09-799-002
 162-09-699-006
 162-09-699-004
 162-09-699-001



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CC-LAS VEGAS BLVD - CONDUITS ONLY (SPRING MOUNTAIN TO SAHARA)
LAS VEGAS BLVD (215 TO SAHARA)
 PROJ #3003089008 SCALE: 1"=30'
 SHEET # 5 OF 8 DATE: 2/15/2019

NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)
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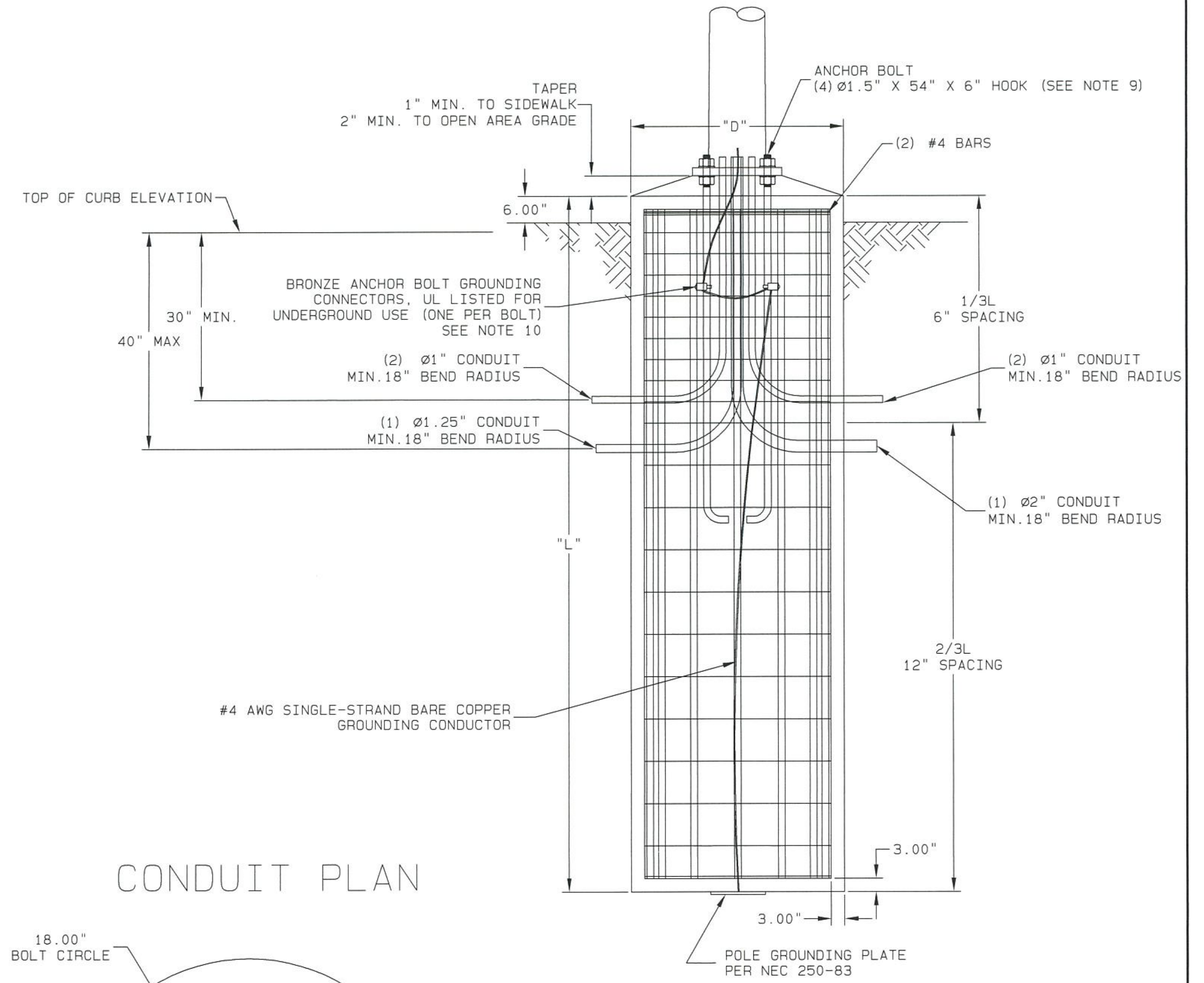
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 NIGHT WORK: YES NO
 ENCROACHMENT PERMIT # _____
 APPROVAL BY: _____ DATE: _____

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED*
 DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY
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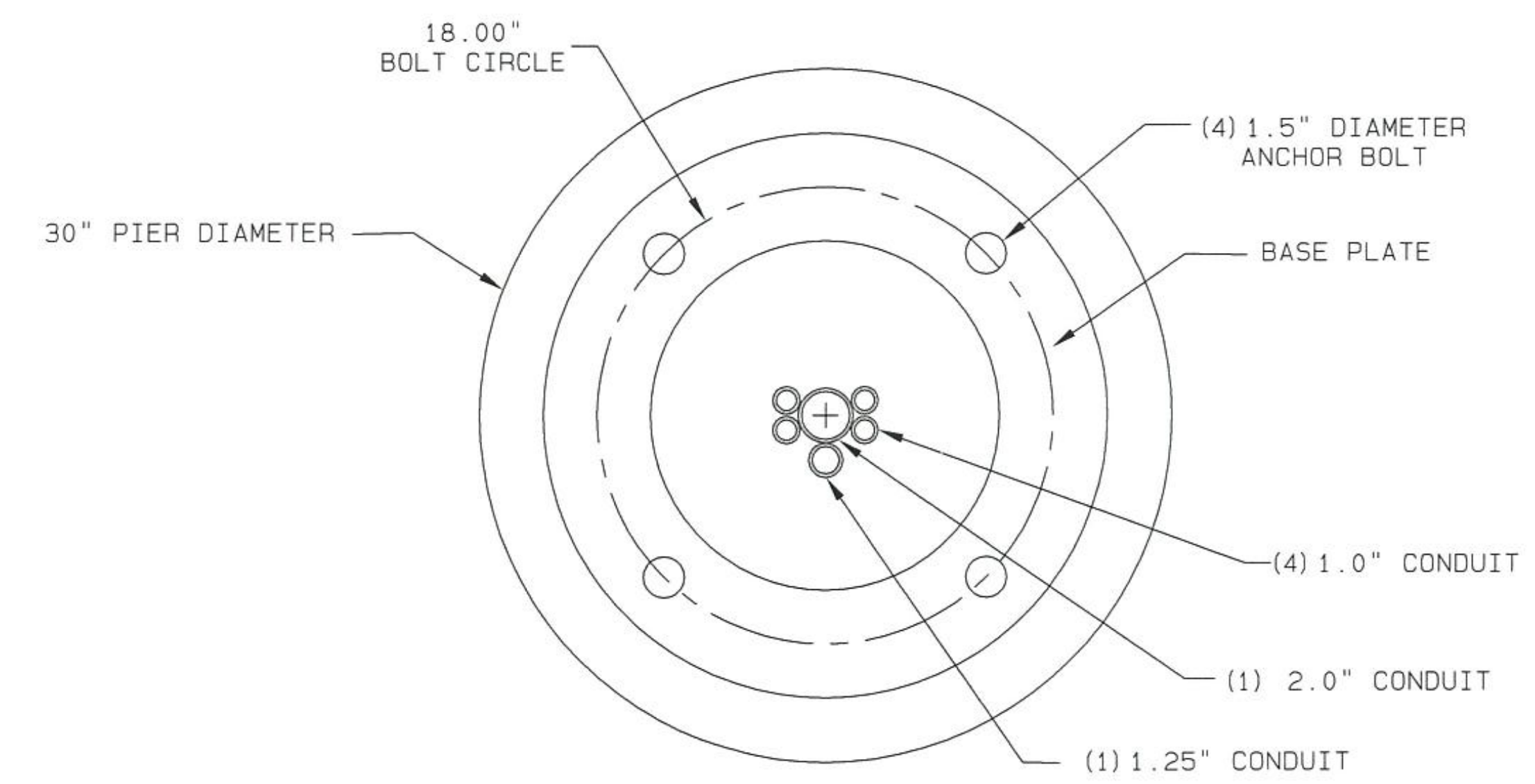
FOUNDATION SIZE (S)						
POLE	CAISSON DATA (EA)			LONGITUDINAL BARS (EA)		TRANSVERSE BARS (EA)
	DIAMETER "D" (FT)	LENGTH "L" (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE
40'-0"	2.5	12.0	4,500	14	#8	#4

GENERAL NOTES:

1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
2. FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
3. FOUNDATION TO BE POURED MONOLITHICALLY.
4. FOUNDATION DESIGN BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. IF WATER TABLE IS ENCOUNTERED AT TIME OF EXCAVATION, CONSULT VALMONT OR A GEOTECH ENGINEER.
5. SITE GRADE IS 7H TO 1V OR FLATTER.
6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI, LOCAL, AND STATE CODES.
7. ALL METHODS OF CONSTRUCTION AND INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. DESIGN BASED ON ASSUMED SOIL CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE ACTUAL SITE SOIL CONDITIONS MEET OR EXCEED THE ASSUMED VALUES.
9. ANCHOR BOLT INFORMATION CAN BE FOUND IN VALMONT CALCULATIONS DATED 5/1/2019.
10. CONTINUOUS BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME, AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE POLE GROUNDING PLATE.
11. FOUNDATION CALCULATED TO ACCOMMODATE MAX LOAD OF POLE ON DRAWING NV112819D1.



CONDUIT PLAN



REV	DATE	BY	CHECK BY	DESCRIPTION
C	AAH 07/26/19	AAH 07/26/19		ADDED NOTE FOR (2) #4 BARS
B	AAH 06/05/19	AAH 06/06/19		ADDED BOLT CIRCLE DIMENSION
A	AAH 05/28/19	AAH 05/28/19		ADDED CONDUITS & GROUNDING
	BNS 5/1/19	BNS 5/1/19		

SOLD TO:	
SHIP TO:	
P.O. #:	
AGENT:	

JOB	CLARK COUNTY
TITLE	FOUNDATION DESIGN

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



ORDER NUMBER:	
PAGE NUMBER:	1 OF 1
DRAWING NUMBER	CLARKCOFDN
REV	C

BID No.: 605203-19