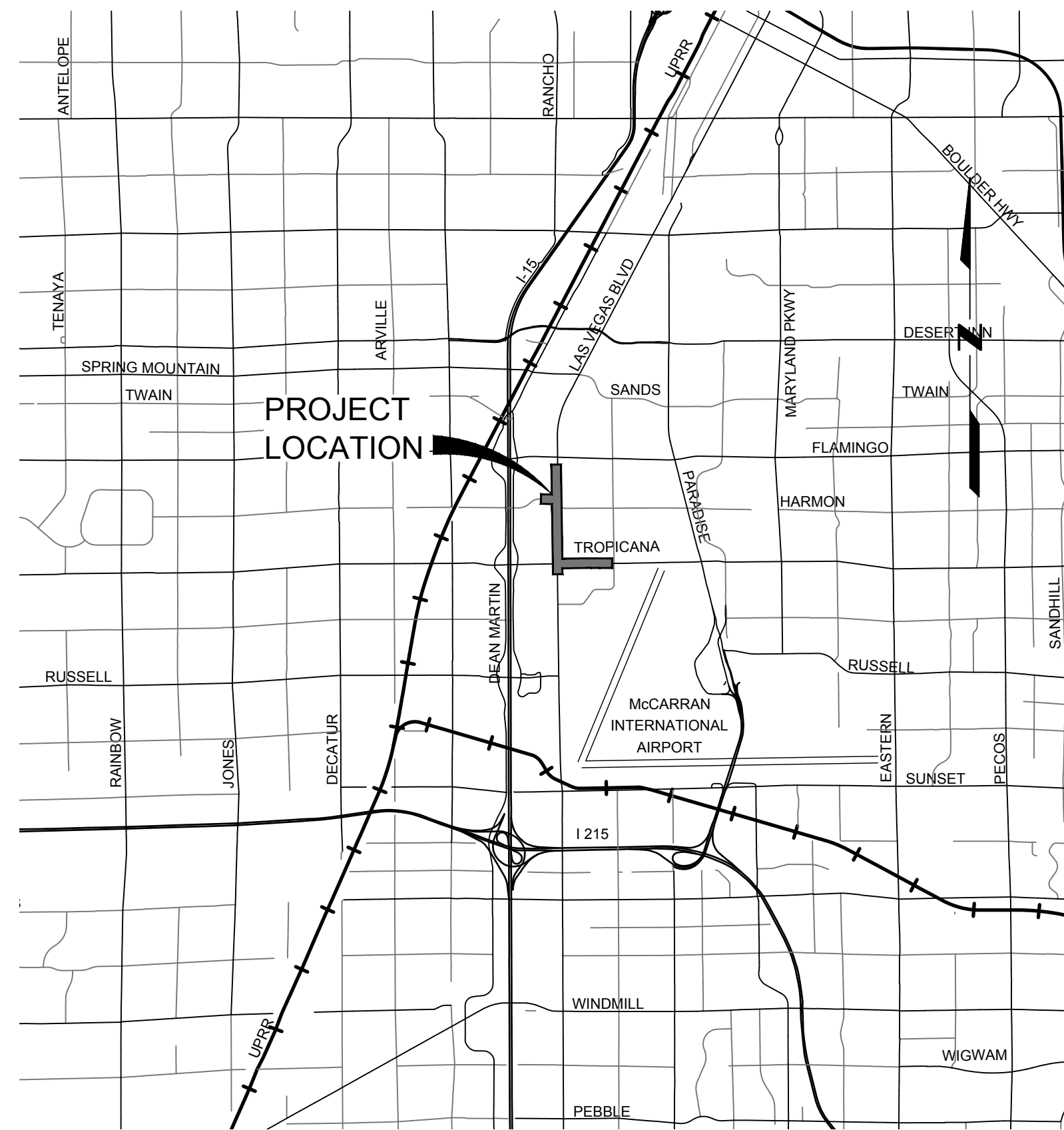


# DEPARTMENT OF PUBLIC WORKS



**Vicinity Map**  
NOT TO SCALE



**2021**

## IMPROVEMENT PLANS FOR:

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

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

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

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

### County Commissioners

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

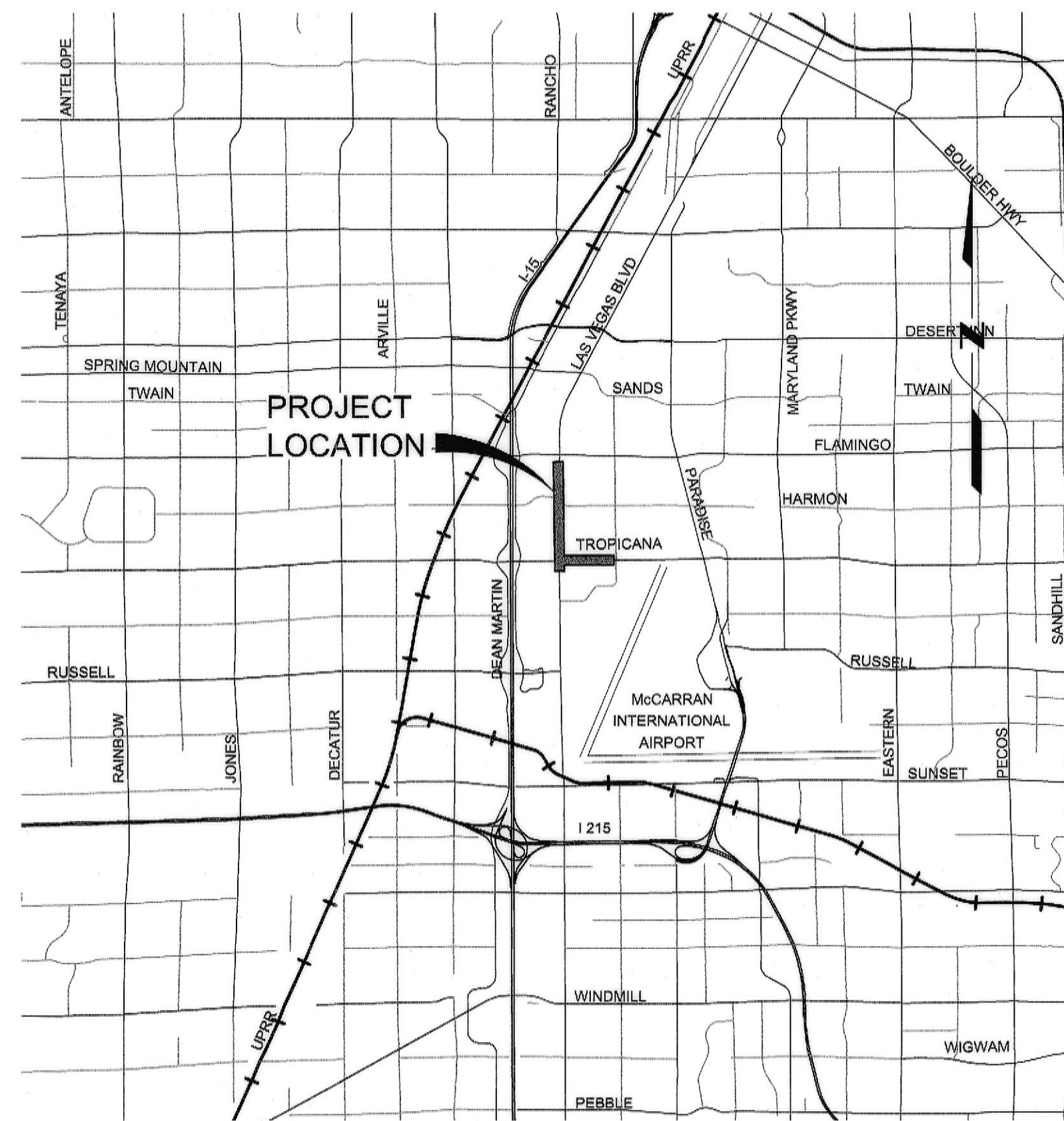
AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	REVISIONS			TRAFFIC MANAGEMENT DIVISION
						NUMBER	DESCRIPTION	DATE	
									COVER SHEET
									L-2304
									&
									L-2302



# DEPARTMENT OF PUBLIC WORKS

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TY-1 TO TY-3 TYPICAL SECTIONS
R-1 TO R-14 REMOVAL PLANS
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**Vicinity Map**  
NOT TO SCALE



**2021**

## IMPROVEMENT PLANS FOR:

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

County Manager

Yolanda T King

Director of Public Works

Approved:

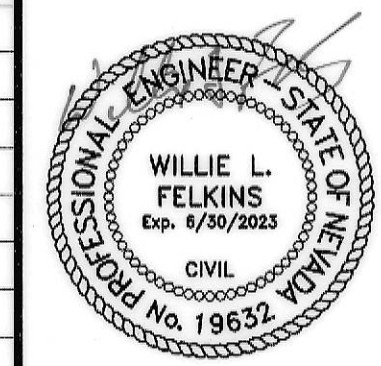
Denis Cederburg

County Commissioners

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

FUNDED BY  
CLARK COUNTY DEPARTMENT OF PUBLIC WORKS

AGENCY	PLANS REVIEWED BY	DATE	DEPARTMENT OF PUBLIC WORKS	BY	DATE	NUMBER	REVISIONS DESCRIPTION	DATE
CENTRAL TELEPHONE COMPANY DBA CENTURYLINK			DEPUTY DIRECTOR		10-7-2021			
LAS VEGAS VALLEY WATER DISTRICT			DEPUTY DIRECTOR		10/14/21			
SOUTHWEST GAS CORPORATION			ROAD DIVISION		10-14-2021			
NV ENERGY COMPANY (TRANSMISSION)			TRAFFIC MANAGEMENT DIVISION		10-7-21			
NV ENERGY COMPANY (DISTRIBUTION)			COUNTY SURVEYOR'S OFFICE		10/14/21			
CLARK COUNTY WATER RECLAMATION DISTRICT			DESIGN ENGINEERING DIVISION		10/14/21			
COX COMMUNICATIONS, LAS VEGAS, INC			CONSTRUCTION MANAGEMENT DIVISION		10/14/21			
			DEVELOPMENT REVIEW DIVISION					



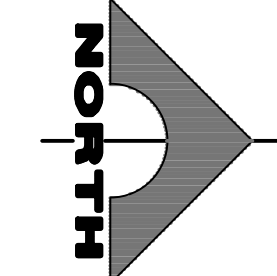
10/6/2021

TRAFFIC MANAGEMENT DIVISION

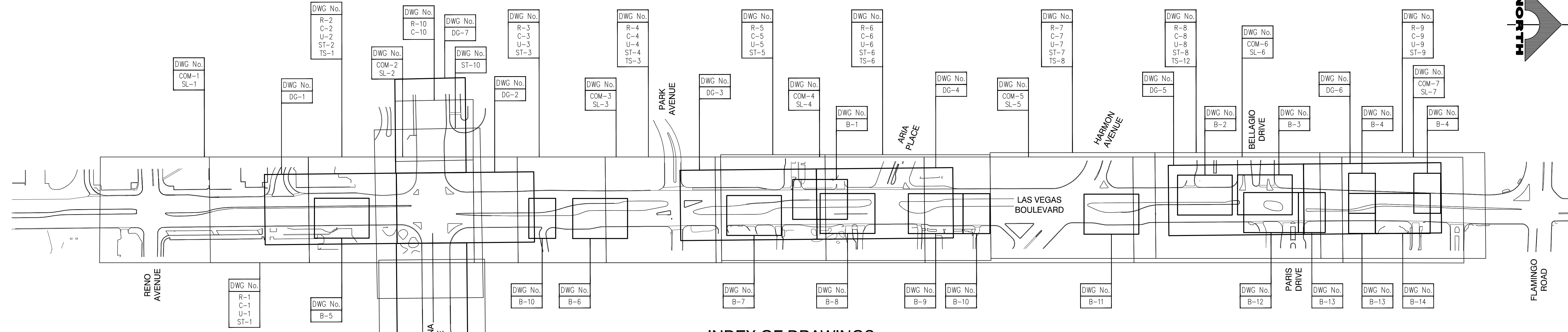
COVER SHEET

**L-2304**



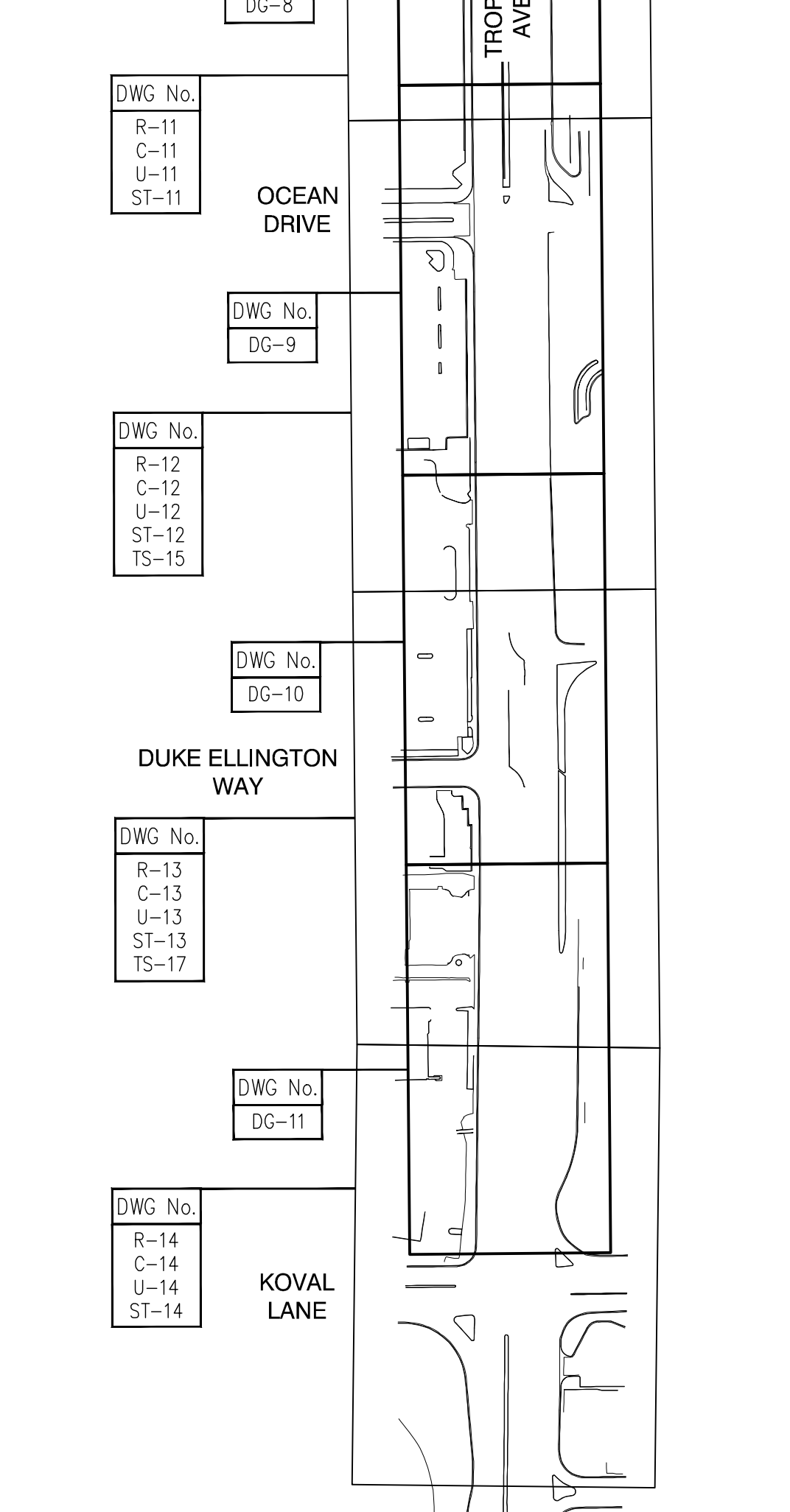


### KEY MAP



### INDEX OF DRAWINGS

SHT. NO.	DWG. NO.	DESCRIPTION
1	COVER	COVER
2	G-2	KEYMAP AND INDEX OF DRAWINGS
3	G-3	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
4	G-4	GENERAL NOTES
5	HC-1	HORIZONTAL CONTROL PLAN
6	HC-2	HORIZONTAL CONTROL PLAN
7	HC-3	HORIZONTAL CONTROL PLAN
8	HC-4	HORIZONTAL CONTROL PLAN
9	HC-5	HORIZONTAL CONTROL PLAN
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13	TY-1	TYPICAL SECTIONS
14	TY-2	TYPICAL SECTIONS
15	TY-3	TYPICAL SECTIONS
16	R-1	REMOVAL PLAN "LVB" 144+00.00 TO "LVB" 148+50.00
17	R-2	REMOVAL PLAN "LVB" 148+50.00 TO "LVB" 156+00.00
18	R-3	REMOVAL PLAN "LVB" 156+00.00 TO "LVB" 162+00.00
19	R-4	REMOVAL PLAN "LVB" 162+00.00 TO "LVB" 167+25.00
20	R-5	REMOVAL PLAN "LVB" 167+25.00 TO "LVB" 172+00.00
21	R-6	REMOVAL PLAN "LVB" 172+00.00 TO "LVB" 179+50.00
22	R-7	REMOVAL PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
23	R-8	REMOVAL PLAN "LVB" 187+00.00 TO "LVB" 194+50.00
24	R-9	REMOVAL PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
25	R-10	REMOVAL PLAN "TRW" 54+50.00 TO "TRW" 57+25.00
26	R-11	REMOVAL PLAN "TRE" 61+75.00 TO "TRE" 67+75.00
27	R-12	REMOVAL PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
28	R-13	REMOVAL PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
29	R-14	REMOVAL PLAN "TRE" 82+50.00 TO "TRE" 89+50.00
30	C-1	CONSTRUCTION PLAN "LVB" 144+00.00 TO "LVB" 148+50.00
31	C-2	CONSTRUCTION PLAN "LVB" 148+50.00 TO "LVB" 156+00.00
32	C-3	CONSTRUCTION PLAN "LVB" 156+00.00 TO "LVB" 162+00.00
33	C-4	CONSTRUCTION PLAN "LVB" 162+00.00 TO "LVB" 167+25.00
34	C-5	CONSTRUCTION PLAN "LVB" 167+25.00 TO "LVB" 172+00.00
35	C-6	CONSTRUCTION PLAN "LVB" 172+00.00 TO "LVB" 179+50.00
36	C-7	CONSTRUCTION PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
37	C-8	CONSTRUCTION PLAN "LVB" 187+00.00 TO "LVB" 194+50.00



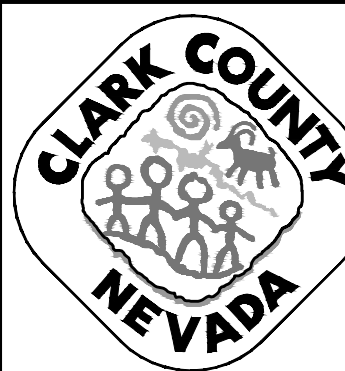
SHT. NO.	DWG. NO.	DESCRIPTION
38	C-9	CONSTRUCTION PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
39	C-10	CONSTRUCTION PLAN "TRW" 54+50.00 TO "TRW" 57+25.00
40	C-11	CONSTRUCTION PLAN "TRE" 61+75.00 TO "TRE" 67+75.00
41	C-12	CONSTRUCTION PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
42	C-13	CONSTRUCTION PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
43	C-14	CONSTRUCTION PLAN "TRE" 82+50.00 TO "TRE" 89+50.00
44	B-1	BOLLARD PLAN "LVB" 170+50.00 TO "LVB" 173+00.00
45	B-2	BOLLARD PLAN "LVB" 188+00.00 TO "LVB" 190+50.00
46	B-3	BOLLARD PLAN "LVB" 190+75.00 TO "LVB" 193+25.00
47	B-4	BOLLARD PLAN "LVB" 195+75.00 TO "LVB" 197+00.00 & "LVB" 198+75.00 TO "LVB" 200+00.00
48	B-5	BOLLARD PLAN "LVB" 148+75.00 TO "LVB" 151+25.00
49	B-6	BOLLARD PLAN "LVB" 160+50.00 TO "LVB" 163+00.00
50	B-7	BOLLARD PLAN "LVB" 167+50.00 TO "LVB" 170+00.00
51	B-8	BOLLARD PLAN "LVB" 171+75.00 TO "LVB" 174+25.00
52	B-9	BOLLARD PLAN "LVB" 175+75.00 TO "LVB" 178+25.00
53	B-10	BOLLARD PLAN "LVB" 158+50.00 TO "LVB" 159+75.00 & "LVB" 178+25.00 TO "LVB" 179+50.00
54	B-11	BOLLARD PLAN "LVB" 183+75.00 TO "LVB" 186+25.00
55	B-12	BOLLARD PLAN "LVB" 191+00.00 TO "LVB" 193+50.00
56	B-13	BOLLARD PLAN "LVB" 193+50.00 TO "LVB" 194+75.00 & "LVB" 195+75.00 TO "LVB" 197+00.00
57	B-14	BOLLARD PLAN "LVB" 197+00.00 TO "LVB" 199+50.00
58	DT-1	CONSTRUCTION DETAILS
59	DT-2	CONSTRUCTION DETAILS
60	DT-3	CONSTRUCTION DETAILS
61	DT-4	CONSTRUCTION DETAILS
62	DT-5	CONSTRUCTION DETAILS
63	DT-6	CONSTRUCTION DETAILS
64	DT-7	CONSTRUCTION DETAILS
65	DT-8	CONSTRUCTION DETAILS
66	DT-9	CONSTRUCTION DETAILS
67	DT-10	CONSTRUCTION DETAILS
68	DT-11	CONSTRUCTION DETAILS
69	DG-1	DETAILED GRADING PLAN "LVB" 146+50.00 TO "LVB" 152+50.00
70	DG-2	DETAILED GRADING PLAN "LVB" 152+50.00 TO "LVB" 158+75.00
71	DG-3	DETAILED GRADING PLAN "LVB" 165+40.00 TO "LVB" 171+60.00

SHT. NO.	DWG. NO.	DESCRIPTION
72	DG-4	DETAILED GRADING PLAN "LVB" 171+60.00 TO "LVB" 177+80.00
73	DG-5	DETAILED GRADING PLAN "LVB" 187+50.00 TO "LVB" 193+75.00
74	DG-6	DETAILED GRADING PLAN "LVB" 193+75.00 TO "LVB" 200+00.00
75	DG-7	DETAILED GRADING PLAN "TRW" 53+50.00 TO "TRW" 57+80.00
76	DG-8	DETAILED GRADING PLAN "TRE" 61+00.00 TO "TRE" 67+20.00
77	DG-9	DETAILED GRADING PLAN "TRE" 67+20.00 TO "TRE" 73+40.00
78	DG-10	DETAILED GRADING PLAN "TRE" 73+40.00 TO "TRE" 79+60.00
79	DG-11	DETAILED GRADING PLAN "TRE" 79+60.00 TO "TRE" 85+80.00
80	DG-12	DETAILED GRADING PLAN GRADING DETAILS
81	DG-13	DETAILED GRADING PLAN GRADING DETAILS
82	DG-14	DETAILED GRADING PLAN GRADING DETAILS
83	DG-15	DETAILED GRADING PLAN GRADING DETAILS
84	DG-16	DETAILED GRADING PLAN GRADING DETAILS
85	DG-17	DETAILED GRADING PLAN GRADING DETAILS
86	SD-1	STORM DRAIN PLAN AND PROFILE
87	SD-2	STORM DRAIN PLAN AND PROFILE LATERALS 1 & 2
88	S-1	STRUCTURAL DETAILS I
89	S-2	STRUCTURAL DETAILS II
90	U-1	UTILITY PLAN "LVB" 144+00.00 TO "LVB" 148+50.00
91	U-2	UTILITY PLAN "LVB" 148+50.00 TO "LVB" 156+00.00
92	U-3	UTILITY PLAN "LVB" 156+00.00 TO "LVB" 162+00.00
93	U-4	UTILITY PLAN "LVB" 162+00.00 TO "LVB" 167+25.00
94	U-5	UTILITY PLAN "LVB" 167+25.00 TO "LVB" 172+00.00
95	U-6	UTILITY PLAN "LVB" 172+00.00 TO "LVB" 179+50.00
96	U-7	UTILITY PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
97	U-8	UTILITY PLAN "LVB" 187+00.00 TO "LVB" 194+50.00
98	U-9	UTILITY PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
99	U-10	UTILITY PLAN "TRW" 54+50.00 TO "TRW" 57+25.00
100	U-11	UTILITY PLAN "TRE" 61+75.00 TO "TRE" 67+75.00
101	U-12	UTILITY PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
102	U-13	UTILITY PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
103	U-14	UTILITY PLAN "TRE" 82+50.00 TO "TRE" 89+50.00

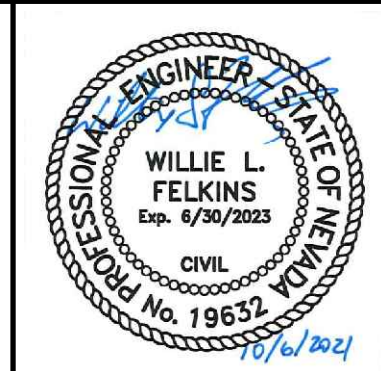
SHT. NO.	DWG. NO.	DESCRIPTION
104	TS-1	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/TROPICANA AVENUE
105	TS-2	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/TROPICANA AVENUE
106	TS-3	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/PARK AVENUE
107	TS-4	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/PARK AVENUE
108	TS-5	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/PARK AVENUE
109	TS-6	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/ARIA PLACE
110	TS-7	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/ARIA PLACE
111	TS-8	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/HARMON AVENUE
112	TS-9	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/HARMON AVENUE
113	TS-10	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/HARMON AVENUE
114	TS-11	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/HARMON AVENUE
115	TS-12	TRAFFIC SIGNAL MODIFICATION PLAN LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
116	TS-13	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
117	TS-14	TRAFFIC SIGNAL SCHEDULES AND DETAILS LAS VEGAS BOULEVARD/BELLAGIO & PARIS DRIVEWAYS
118	TS-15	TRAFFIC SIGNAL MODIFICATION PLAN TROPICANA AVENUE/OCEAN DRIVE
119	TS-16	TRAFFIC SIGNAL SCHEDULES AND DETAILS TROPICANA AVENUE/OCEAN DRIVE
120	TS-17	TRAFFIC SIGNAL MODIFICATION PLAN TROPICANA AVENUE/DUKE ELLINGTON WAY
121	TS-18	TRAFFIC SIGNAL SCHEDULES AND DETAILS TROPICANA AVENUE/DUKE ELLINGTON WAY
122	TS-19	TRAFFIC SIGNAL SCHEDULES AND DETAILS TROPICANA AVENUE/DUKE ELLINGTON WAY
123	COM-1	COMMUNICATION PLAN "LVB" 139+00.00 TO "LVB" 148+50.00
124	COM-2	COMMUNICATION PLAN "LVB" 148+50.00 TO "LVB" 158+00.00
125	COM-3	COMMUNICATION PLAN "LVB" 158+00.00 TO "LVB" 167+00.00
126	COM-4	COMMUNICATION PLAN "LVB" 167+00.00 TO "LVB" 176+50.00
127	COM-5	COMMUNICATION PLAN "LVB" 176+50.00 TO "LVB" 186+00.00
128	COM-6	COMMUNICATION PLAN "LVB" 186+00.00 TO "LVB" 195+50.00
129	COM-7	COMMUNICATION PLAN "LVB" 195+50.00 TO "LVB" 201+00.00
130	CDT-1	OPEN TRENCH INSTALLATION DETAILS
131	CDT-2	OPEN TRENCH INSTALLATION DETAILS
132	CDT-3	OPEN TRENCH INSTALLATION DETAILS
133	CDT-4	6"X6" COMMUNICATION MANHOLE DETAILS

SHT. NO.	DWG. NO.	DESCRIPTION
134	CDT-5	4"X4" F.A.S.T. MAHOLE DETAILS
135	CDT-6	4"X4"X4" VERIZON MANHOLE DETAILS
136	CDT-7	COX/MISC. DETAILS
137	CDT-8	SMART POLE DETAIL
138	CDT-9	SMART POLE LAYOUT
139	CDT-10	LANDSCAPE LIGHT TYPICAL DETAIL
140	CDT-11	STRUCTURAL DETAILS
141	SL-1	STREET LIGHTING PLAN "LVB" 139+00.00 TO "LVB" 148+50.00
142	SL-2	STREET LIGHTING PLAN "LVB" 148+50.00 TO "LVB" 158+00.00
143	SL-3	STREET LIGHTING PLAN "LVB" 158+00.00 TO "LVB" 167+00.00
144	SL-4	STREET LIGHTING PLAN "LVB" 167+00.00 TO "LVB" 176+50.00
145	SL-5	STREET LIGHTING PLAN "LVB" 176+50.00 TO "LVB" 186+00.00
146	SL-6	STREET LIGHTING PLAN "LVB" 186+00.00 TO "LVB" 195+50.00
147	SL-7	STREET LIGHTING PLAN "LVB" 195+50.00 TO "LVB" 201+00.00
148	SL-8	STREET LIGHTING/ITS PLAN "TRE" 61+50.00 TO "TRE" 71+00.00
149	SL-9	STREET LIGHTING/ITS PLAN "TRE" 71+00.00 TO "TRE" 80+50.00
150	SL-10	STREET LIGHTING/ITS PLAN "TRE" 80+50.00 TO "TRE" 88+00.00
151	SL-11	CIRCUIT CAPACITY VERIFICATIONS
152	SL-12	SPUCE DIAGRAMS
153	ST-1	SIGNING AND STRIPING PLAN "LVB" 144+00.00 TO "LVB" 148+50.00
154	ST-2	SIGNING AND STRIPING PLAN "LVB" 148+50.00 TO "LVB" 156+00.00
155	ST-3	SIGNING AND STRIPING PLAN "LVB" 156+00.00 TO "LVB" 162+00.00
156	ST-4	SIGNING AND STRIPING PLAN "LVB" 162+00.00 TO "LVB" 167+25.00
157	ST-5	SIGNING AND STRIPING PLAN "LVB" 167+25.00 TO "LVB" 172+00.00
158	ST-6	SIGNING AND STRIPING PLAN "LVB" 172+00.00 TO "LVB" 179+50.00
159	ST-7	SIGNING AND STRIPING PLAN "LVB" 179+50.00 TO "LVB" 187+00.00
160	ST-8	SIGNING AND STRIPING PLAN "LVB" 187+00.00 TO "LVB" 194+50.00
161	ST-9	SIGNING AND STRIPING PLAN "LVB" 194+50.00 TO "LVB" 202+00.00
162	ST-10	SIGNING AND STRIPING PLAN "TRW" 56+00.00 TO "TRW" 63+50.00
163	ST-11	SIGNING AND STRIPING PLAN "TRE" 63+50.00 TO "TRE" 67+75.00
164	ST-12	SIGNING AND STRIPING PLAN "TRE" 67+75.00 TO "TRE" 75+25.00
165	ST-13	SIGNING AND STRIPING PLAN "TRE" 75+25.00 TO "TRE" 82+50.00
166	ST-14	SIGNING AND STRIPING PLAN "TRE" 82+50.00 TO "TRE" 89+50.00
167	ST-15	SIGNING AND STRIPING DETAILS
168	ST-16	SIGNING AND STRIPING DETAILS
169	ST-17	SIGN DETAILS

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**KEYMAP AND INDEX OF DRAWINGS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

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



### LEGEND

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

### ABBREVIATIONS

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

### LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVWD PROJECT #139072

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

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

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

REVISED 08/01/2017

### LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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

### BASIS OF BEARING

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

### BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "8C1128NWS\_2018", BEING A RIVET AND ROUND ALUMINUM PLATE IN TOP OF CURB IN AN ISLAND IN THE SOUTHWEST QUADRANT OF TROPICANA AVENUE AND LAS VEGAS BOULEVARD.

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

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

### FOR ALL DRY UTILITY CROSSINGS

-MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING  
-MAINTAIN MINIMUM 3' PARALLEL SEPARATION  
-ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

### SOUTHWEST GAS CORPORATION CONSTRUCTION NOTES

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

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

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

### RTC TRANSIT NOTES

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

REVISED: JANUARY 24, 2019

### RTC FAST NOTES

- CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. LONNIE BROWN (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-290-1979 CELL OR AT 702-901-8400 GENERAL.
- IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT, SPLICED AND OR PULLED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. LONNIE BROWN TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION.
- CONTRACTOR MUST NOTIFY MR. LONNIE BROWN AT 702-290-1979 CELL, 702-901-8400 GENERAL, OR AT BROWN@RTC.NV.COM, ONCE ALL PROJECT ITS FIBER OPTIC WORK IS COMPLETE. A COPY OF AS-BUILT DRAWINGS MUST BE PROVIDED TO RTC/FAST UPON COMPLETION OF PROJECT.

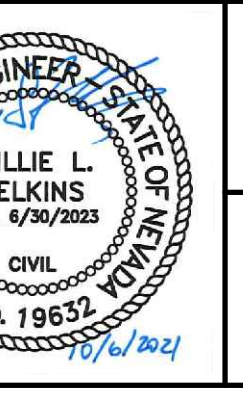
REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### LEGEND, ABBREVIATIONS, AND GENERAL NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT NO: 500-897-LV-EF	DRAWN BY: TAA	SCALE:	DRAWING NO.:
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: NONE	G-3
APPROVED BY:		VERT: NONE	SHT. 3 OF 169
		FIELD BOOK:	L-2304
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com			



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

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

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

- NONE

WILLIE L. FELKINS, P.E. 19632 \_\_\_\_\_ DATE

**CLARK COUNTY WATER RECLAMATION DISTRICT** **DATE**

CCWRD PIPES NUMBER: 21.983

SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. NO SEWER PROPOSED.

**CCWRD MH SCHEDULE**

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

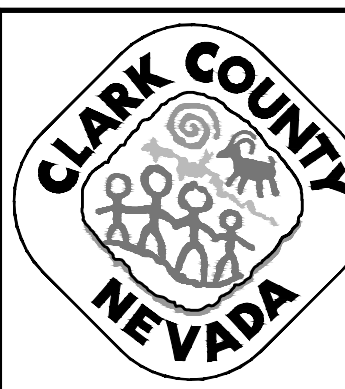
\*CCWRD RECORDS INDICATE EXISTING SANITARY SEWER MANHOLE HAS CORROSION PROTECTION. CONTRACTOR TO FIELD VERIFY AND REAPPLY CORROSION PROTECTION WHERE NEEDED FOR ADJUSTMENTS.

**GENERAL NOTES**

- ALL REFERENCES TO STANDARD DRAWINGS ARE TO STATE OF NEVADA STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION LATEST ENGLISH EDITION, "THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" OR "THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA" AS NOTED.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED PUBLIC ENTITIES, THE PROJECT ENGINEER AND CLARK COUNTY AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR FOR UTILITIES OR STRUCTURES NOT SHOWN AT ACTUAL LOCATIONS ON THE DRAWINGS. EXISTING SERVICE LATERALS ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT REMOVE TREES, SHRUBS, LAWNS, WALLS, FENCES, SIGNS, STRUCTURES, LIGHTS, OR ANY EXISTING IMPROVEMENTS OUTSIDE OF STREET RIGHT-OF-WAY, EXCEPT WHERE REQUIRED TO DO SO BY THE CONTRACT DRAWINGS OR BY THE ENGINEER. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING SPRINKLER SYSTEMS, LAWNS, FENCES, WALLS, SIGNS, STEPS, SIDEWALK, DRIVEWAYS, LAWN LIGHTS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
- THE CONTRACTOR SHALL BACKFILL AND FINE GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER. WHERE EXISTING LAWNS ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL SOD THE AFFECTED AREA TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA TRAFFIC CONTROL MANUAL", 1986 (OR LATEST REVISION), PUBLISHED BY THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE ENGINEER.
- REMOVAL OR RELOCATIONS OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES, AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES FAR ENOUGH IN ADVANCE AS TO NOT IMPACT THE SCHEDULE.
- NV ENERGY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND OR OVERHEAD POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE PLANS.
- POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENT SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.
- CENTURY LINK SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL TELEPHONE FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS.
- COX COMMUNICATIONS SHALL BE RESPONSIBLE FOR THE VERTICAL OR HORIZONTAL ADJUSTMENT OF ALL CATV FACILITIES WHICH INTERFERE WITH IMPROVEMENTS SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH SECTION 600 OF THE "STANDARD SPECIFICATIONS".
- EXACT LOCATIONS OF ALL SAWCUT LINES SHALL BE DETERMINED IN THE FIELD BY THE CLARK COUNTY INSPECTOR.
- CURB AND GUTTER OF A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TEST AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- OFFSET DIMENSIONS TO CURB AND GUTTER AND CURB ARE MEASURED TO BACK OF CURB.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, EXISTING CONDITIONS AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC AND PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE PROPER DRAINAGE, INGRESS AND EGRESS TO THE PROJECT.
- FINAL PLANTMIX BITUMINOUS SURFACE (PBS) PAVEMENT SHALL BE ZERO TO ONE-HALF INCH ABOVE THE LIP OF GUTTER INCLUDING UTAC(S) EXCEPT AT SIDEWALK RAMPS WHERE PBS PAVEMENT SHALL BE FLUSH WITH CONCRETE RAMP. PAVEMENT SURFACES SHALL BE FLUSH WITH EDGES OF CROSS GUTTERS.
- PORTLAND CEMENT CONCRETE PAVEMENT JOINTS SHALL CONFORM TO NDOT STD. PLAN CP-1 AND CP-2.
- THE CONTRACTOR SHALL MAINTAIN AN ONGOING REMOVAL PROCESS OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
- ALL EXISTING TRAFFIC SIGNS, STREET LIGHTS & SIGNS TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CLARK COUNTY TRAFFIC OPERATIONS DIVISION LOCATED AT 935 S. JONES BLVD, LAS VEGAS, NEVADA WITHIN 48 HOURS OF THEIR REMOVAL.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING TRAFFIC SIGNS, NOT SPECIFICALLY NOTED ON THE DRAWINGS, WHICH ARE TO BE RELOCATED OR REMOVED.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED THEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
- F.A.S.T. INTELLIGENT TRANSPORTATION SYSTEM (ITS) POLICY IS IN EFFECT. COMMUNICATIONS FACILITIES, INCLUDING BUT NOT LIMITED TO, COPPER WIRE, FIBER OPTIC, MICROWAVE, AND RADIO SYSTEMS SHALL BE MAINTAINED AT ALL TIMES. ANY DAMAGE TO THE ITS SYSTEM OF COMMUNICATION CABLE IS CONSIDERED TO BE AN EMERGENCY AND LIQUIDATED DAMAGES OF \$2,500 PER DAY FOR COPPER CABLE AND \$7,500 PER DAY FOR FIBER OPTIC BREAKS SHALL BE ASSESSED TO THE CONTRACTOR BEGINNING 24 HOURS AFTER THE CONDUIT OR CABLE DAMAGE. DEVELOPER OR CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED OR REPAIRED. THE TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO CLARK COUNTY TRAFFIC MANAGEMENT, F.A.S.T., AND NDOT AND MUST BE REPORTED AND REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. IMMEDIATELY CONTACT LONNIE BROWN, 702-290-1979 (CELL) OR 702-901-8400 (GENERAL), TO REPORT ANY DAMAGE OF EXISTING FACILITIES.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF SUSPECTED UTILITY INTERFERENCES, AND SHALL FURNISH INFORMATION ON THE SAME TO THE ENGINEER, NOT LESS THAN TEN (10) DAY PRIOR TO THE ANTICIPATED IMPACT OF THESE SUSPECTED INTERFERENCES ON HIS WORK. IF CONFLICTS EXIST, THE CONTRACTOR WILL IMMEDIATELY CONTACT THE ENGINEER AND PROVIDE THE ENGINEER WITH ALL THE NECESSARY DATA SUCH AS ELEVATIONS, HORIZONTAL LOCATIONS, ETC., AND PROVIDE THE ENGINEER WITH SKETCHES INDICATING THE PROPOSED IMPROVEMENT AND THE UTILITY CONFLICT. THE ENGINEER WILL EXAMINE AND REVIEW ALL THE DATA AND SKETCHES PROVIDED, AND WILL PROVIDE THE CONTRACTOR WITH AN ALTERNATIVE DESIGN WITHIN FIVE (5) DAYS AFTER RECEIPT OF DATA AND SKETCHES.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CALL CLARK COUNTY TRAFFIC OPERATIONS AT 702-455-7546 AND INFORM THE TRAFFIC SYSTEMS SUPERVISOR OF THE WORK START DATE FOR COORDINATION.
- THREE (3) WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND SHALL INCLUDE THE PROPOSED DATE OF COMPLETION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED. STOP SIGNS SHALL BE INSTALLED IN GROUND. NO TEMPORARY MOUNTINGS WILL BE ALLOWED.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CLARK COUNTY WATER RECLAMATION DISTRICT DESIGN AND CONSTRUCTION STANDARDS AND THE CITY OF LAS VEGAS AND CITY OF NORTH LAS VEGAS CONSTRUCTION STANDARDS.
- THE PLANS DO NOT SHOW ALL SEWER LATERALS, SEWER FORCE MAINS AND WATER SERVICE LATERALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS OR RELOCATIONS OF LATERALS BROKEN OR IN CONFLICT WITH THE PROPOSED STORM DRAIN OR ROADWAY CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE TO ALL CUSTOMERS. SEWER LATERALS CUT DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR PER CCWRD DESIGN AND CONSTRUCTION STANDARDS. CONTRACTOR SHALL IMMEDIATELY REPORT ANY SANITARY SEWER OR SEWER LATERAL THAT CANNOT BE RECONNECTED TO SEWER MAIN DUE TO STORM DRAIN CONFLICT. CLARK COUNTY SHALL BE RESPONSIBLE FOR PROVIDING RESUBMITTED APPROVED MAIN LINE SEWER EXTENSION PLANS TO PROVIDE NEW MAIN TO REROUTE ANY SEWERS THAT CANNOT BE RECONNECTED.

10-13-21 11:27:47 F:\Projects\500-500-897-LV-EF\DWG\Production\LV\_EF\_02\_G Streets.dwg

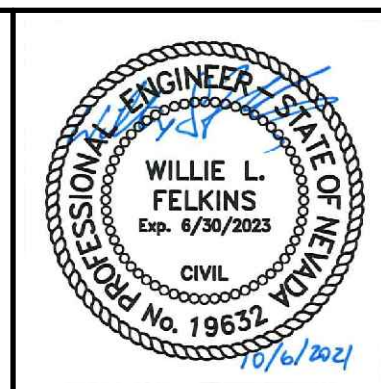
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**GENERAL NOTES**

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



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

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

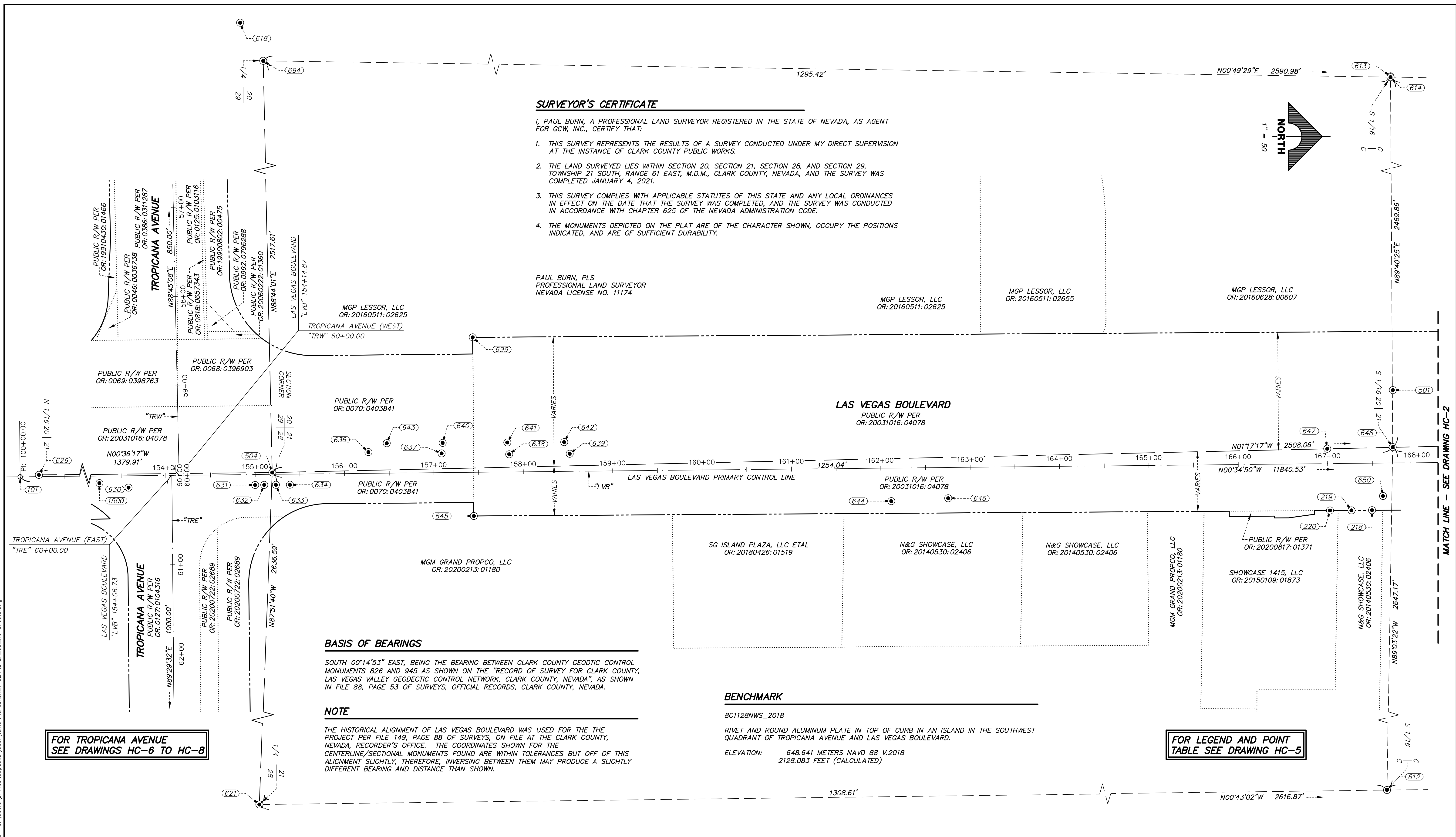
SCALE  
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 VERT: NONE  
 FIELD BOOK

DRAWING NO.  
**G-4**  
 SHT. 4 OF 169  
 L-2304

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



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**SURVEYOR'S CERTIFICATE**

- I, PAUL BURN, A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEVADA, AS AGENT FOR GCW, INC., CERTIFY THAT:
1. THIS SURVEY REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF CLARK COUNTY PUBLIC WORKS.
  2. THE LAND SURVEYED LIES WITHIN SECTION 20, SECTION 21, SECTION 28, AND SECTION 29, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED JANUARY 4, 2021.
  3. THIS SURVEY COMPLIES WITH APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATION CODE.
  4. THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT DURABILITY.

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

**BASIS OF BEARINGS**

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

**NOTE**

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

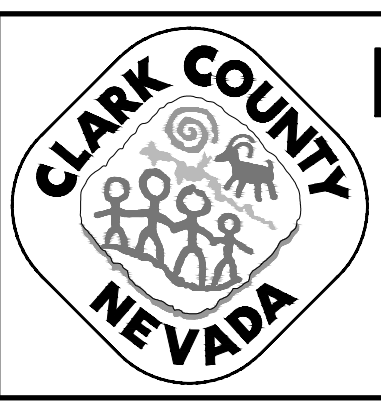
**BENCHMARK**

8C1128NWS\_2018  
 RIVET AND ROUND ALUMINUM PLATE IN TOP OF CURB IN AN ISLAND IN THE SOUTHWEST QUADRANT OF TROPICANA AVENUE AND LAS VEGAS BOULEVARD.  
 ELEVATION: 648.641 METERS NAVD 88 V.2018  
 2128.083 FEET (CALCULATED)

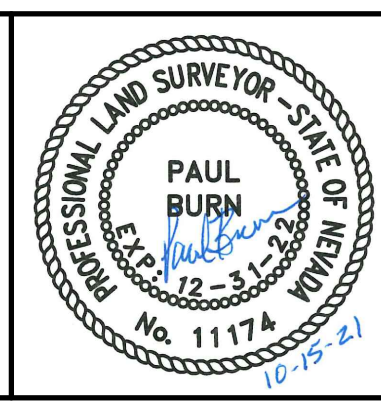
**FOR TROPICANA AVENUE  
 SEE DRAWINGS HC-6 TO HC-8**

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



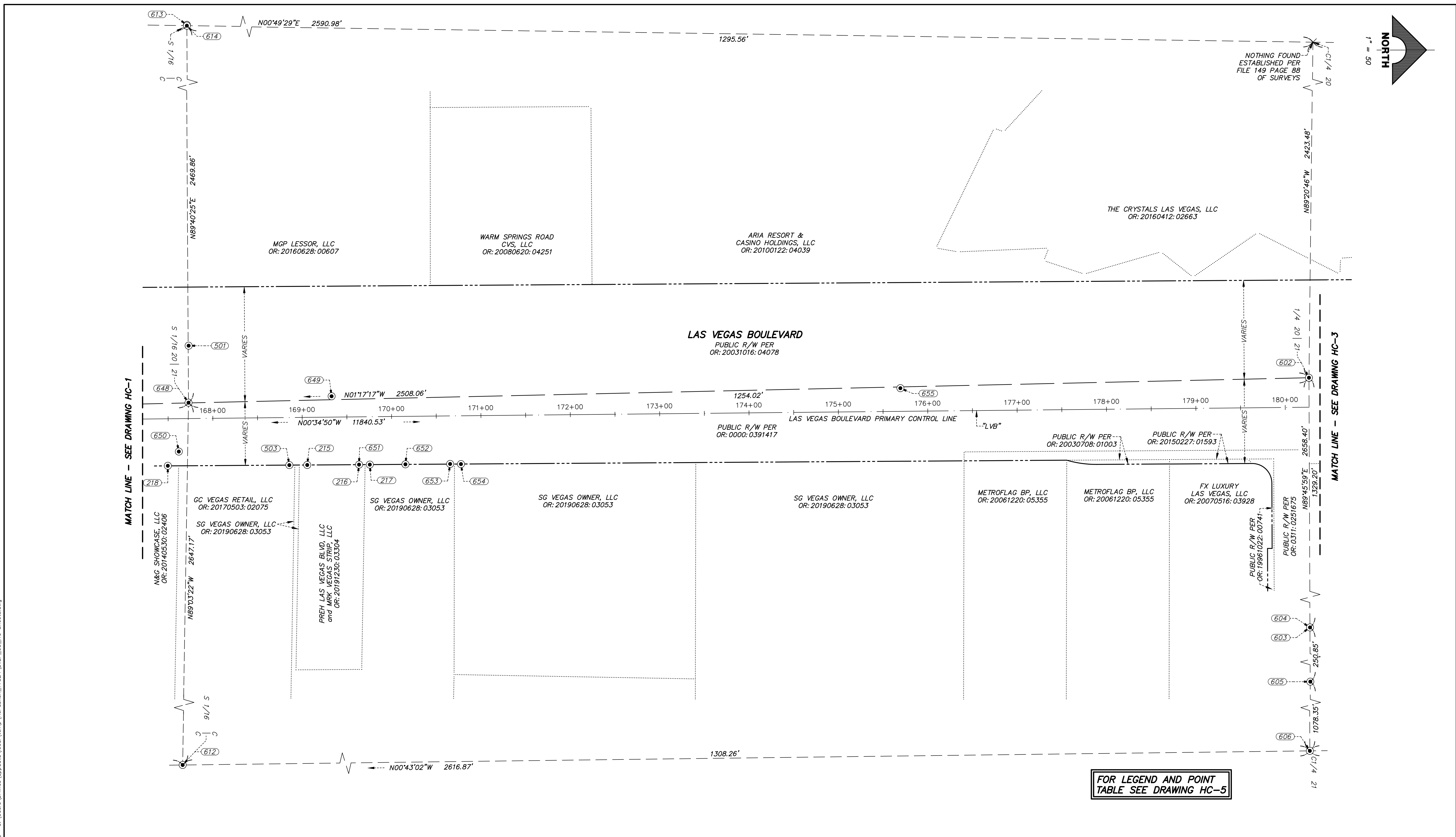
PROJECT No: 500-897-LV-EF DRAWN BY: WM  
 DESIGNED BY: WM CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCW** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcwengineering.com

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

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



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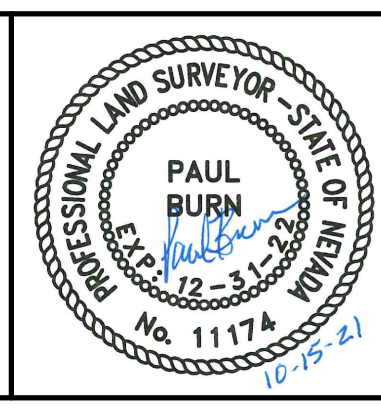


REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**HORIZONTAL CONTROL PLAN**

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

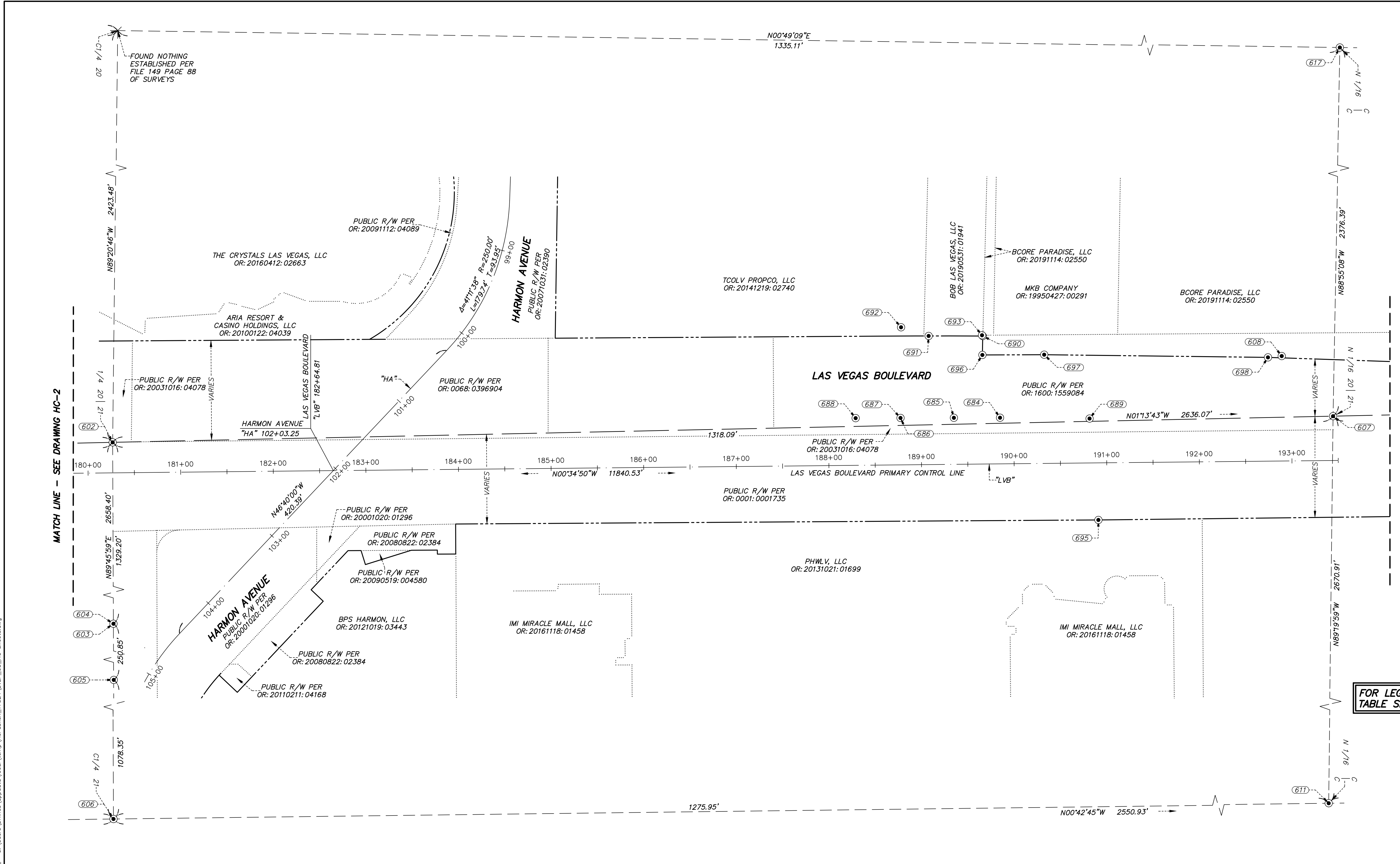
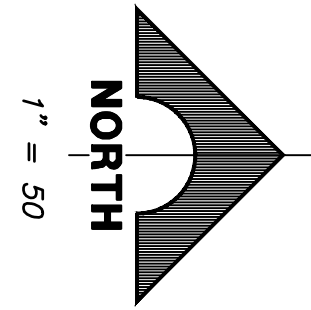


PROJECT No: 500-897-LV-EF DRAWN BY: WM  
 DESIGNED BY: WM CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-2
VERT: NONE	SHT. 6 OF 169
FIELD BOOK	L-2304

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





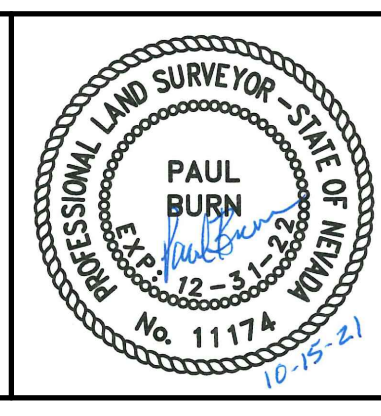
FOR LEGEND AND POINT TABLE SEE DRAWING HC-5

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**HORIZONTAL CONTROL PLAN**

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



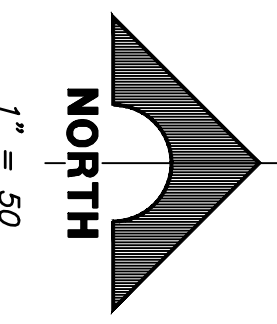
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 DESIGNED BY: WM CHECKED BY: CW  
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**GCV** ENGINEERS \ SURVEYORS  
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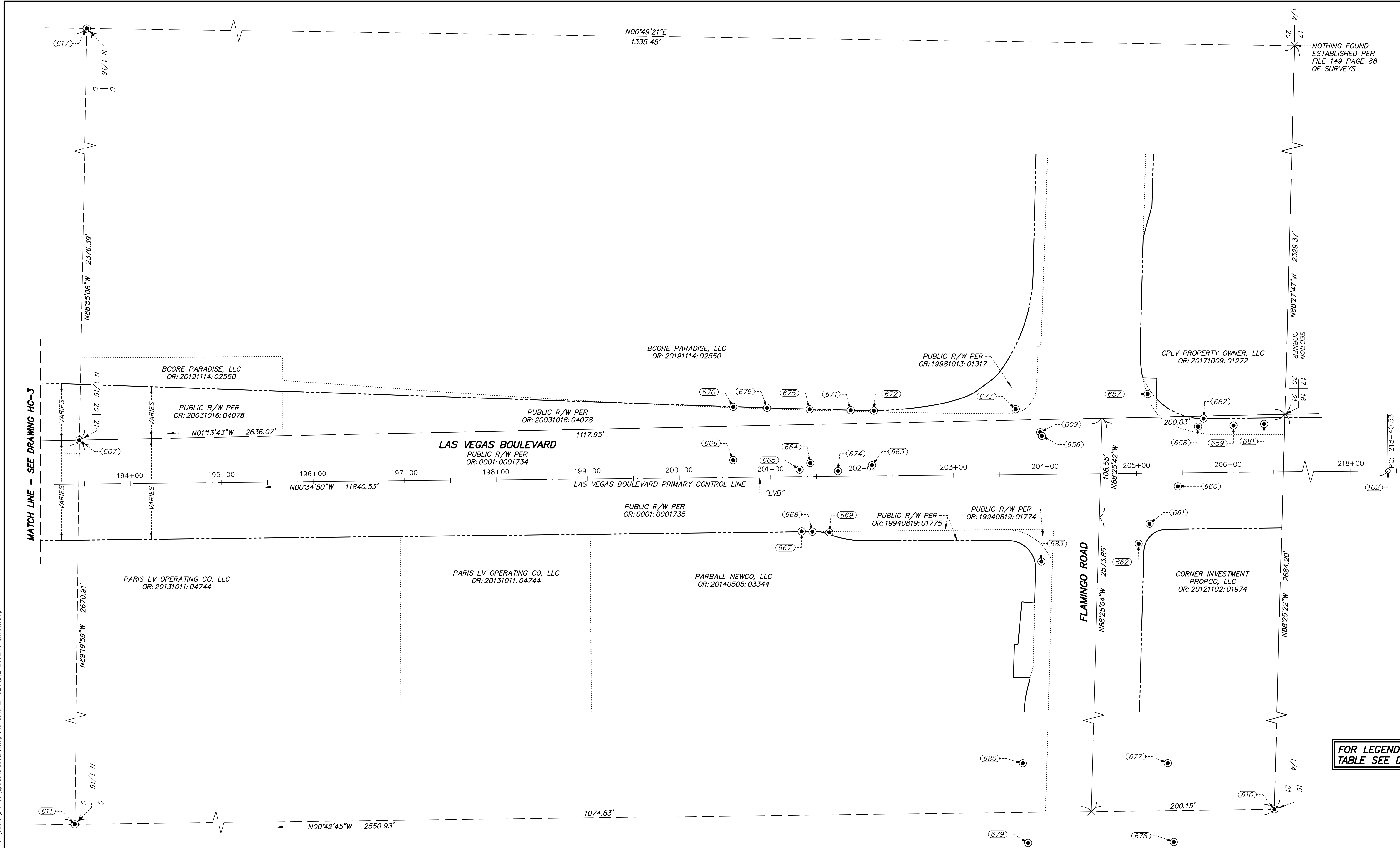
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HORIZ: 1" = 50'	<b>HC-3</b>
VERT: NONE	SHT. 7 OF 169
FIELD BOOK	L-2304

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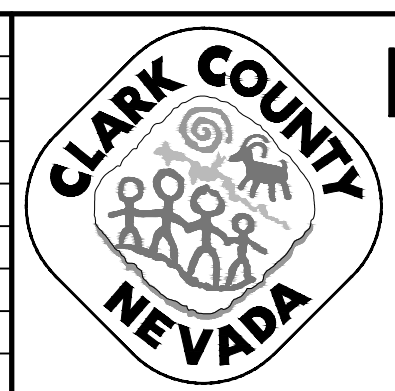


NOTHING FOUND ESTABLISHED PER FILE 149 PAGE 88 OF SURVEYS

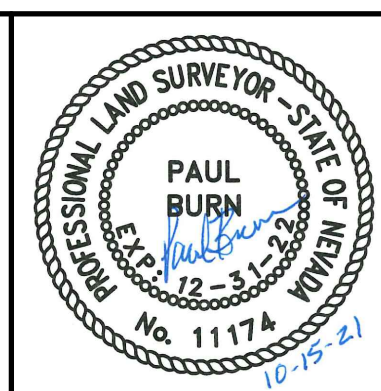


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 drhines

REV. NO.	DATE	DESCRIPTION	APPROVED



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



PROJECT No: 500-897-LV-EF DRAWN BY: WM  
 DESIGNED BY: WM CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_  
**GCV** 1555 S. RAINBOW BLVD.  
 ENGINEERS \ SURVEYORS LAS VEGAS, NV 89146  
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 gcwengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	<b>HC-4</b>
VERT: NONE	SHT. 8 OF 169
FIELD BOOK	L-2304



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POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
215	2121.91	744838.15	77623.85	FND_3.5IN BC LVB 24X PLS 17829
216	2121.31	744896.16	77623.44	FND_3.5IN BC LVB 25X PLS 17829
217	2121.18	744908.17	77623.44	FND_3.5IN BC LVB 26X PLS 17829
218	2121.80	744682.18	77624.76	FND_3.5IN BC LVB 19X PLS 17829
219	2121.99	744659.16	77624.92	FND_3.5IN BC LVB 18X PLS 17829
220	2122.46	744635.14	77625.06	FND_3.5IN BC LVB 17X PLS 17829
501	2122.13	744705.44	77490.35	FND_MAG NAIL
503	2121.45	744818.13	77623.97	FND_3.5IN BC LVB 23X PLS 17829
504	2126.23	743451.59	77582.58	FND_2IN BC SC 20-21/29-28 PLS 8421
602	2116.30	745959.04	77526.26	FND 2IN BC 1/4 S20-21 PLS 18982
603	2107.69	745964.24	78855.28	FND 2IN ALCAP 1/2IN ALCAP 1/16 S21 PLS 8421
604	2107.63	745964.48	78855.44	FND BRASS STEM/BRASS STEM
605	2105.54	745965.58	79106.24	FND 2IN BC
606	2091.75	745969.85	80184.58	FND 2IN BC C1/4 S21 PLS 7004
607	2108.08	747276.79	77497.98	FND 2IN ALCAP N1/2IN ALCAP N1/16 S20-21 PLS 5571
608	2107.43	747221.33	77433.07	FND 2IN BC LVB C/2IN BC LVB CC CP 110 PLS 16201
609	2106.96	748327.02	77489.20	FND 2IN BC LVB C/2IN BC LVB CC CP 111 PLS 16201
610	2076.64	748520.58	80152.85	FND 2IN BC 1/4 S16/21 PLS 7004
611	2076.11	747245.70	80168.66	FND 2IN BC N1/16 S21 PLS 10598
612	2099.98	744661.69	80200.92	FND 2IN BC S1/16 S21 PLS 10598
613	2136.46	744691.24	75083.32	FND 1.5IN ALCAP ILL
614	2136.60	744691.23	75084.29	FND REBAR
617	2125.78	747321.63	75121.97	FND 2IN ALCAP ILL
618	2163.53	743370.11	75022.90	FND RM 49.46 PLS 7008
621	2099.87	743353.18	80217.34	FND 3IN BC 1/4 S21/28 PLS 17597
629	2134.86	742071.90	77597.20	FND 2IN ALCAP N1/16 S29-28
630	2127.73	743290.83	77599.51	FND 2IN BRC LVB CC CP107 PLS 5571
631	2126.80	743432.53	77596.54	FND RM 23.67 PLS 8421
632	2126.76	743442.69	77596.42	FND RM 16.48 PLS 8421
633	2126.69	743455.74	77596.30	FND RM 14.34 PLS 8421
634	2126.71	743471.42	77596.22	FND RM 23.96 PLS 8421
636	2126.52	743559.24	77559.72	FND RM 138.00 PLS 17829

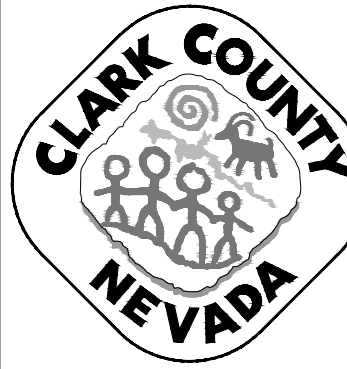
POINT TABLE				
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637	2126.19	743641.15	77561.17	FND RM 78.78 PLS 17829
638	2125.62	743716.74	77562.16	FND RM 79.50 PLS 17829
639	2125.27	743784.46	77561.61	FND RM 127.79 PLS 17829
640	2126.35	743642.28	77549.43	FND RM 122.87 PLS 17829
641	2125.96	743714.62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

POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
669	2106.75	748096.56	77598.64	FND RM 18.62 PLS 17829
670	2106.90	747991.48	77461.50	FND RM 36.84 PLS 17829
671	2106.80	748119.92	77465.17	FND 4IN BC LVB ROW 058 PLS 4541
672	2106.75	748145.14	77465.69	FND RM 25.20 PLS 178299
673	2106.88	748300.14	77464.00	SET TEMPORARY WORKING POINT
674	2107.96	748105.94	77531.67	FND RM 71.89 PLS 17829
675	2106.85	748074.94	77464.15	FND RM 46.66
676	2106.90	748028.33	77462.57	FND 4IN BC LVB ROW PLS 4541
677	2076.63	748404.01	80102.44	FND RM 98.98 PLS 7008
678	2076.76	748410.60	80188.59	FND RM 96.04 PLS 7008
679	2076.56	748251.44	80189.60	FND RM 77.32 PLS 7008
680	2076.77	748245.57	80102.55	FND RM 91.81 PLS 7008
681	2106.56	748571.72	77480.21	FND RM 25.03 PLS 7008
682	2106.19	748505.50	77474.29	FND 4IN BC LVB ROW 006 PLS 1005
683	2104.96	748328.14	77630.55	FND RM 79.59 PLS 7008
684	2110.25	746917.18	77499.65	FND RM 117.28
685	2110.94	746867.37	77499.72	FND RM 92.5
686	2111.92	746809.71	77499.90	FND RM 93.62
687	2111.92	746809.71	77499.90	FND RM 93.62
688	2112.73	746761.29	77500.09	FND RM 118.67 PLS 17829
689	2109.04	747013.85	77500.54	FND RM 134.48
690	2108.94	746898.50	77411.42	FND 4IN BC LVB ROW 46 PLS 17829
691	2109.44	746840.08	77411.34	FND 4IN BC LVB ROW 44 PLS 17829
692	2111.49	746810.30	77401.99	FND RM 92.81 PLS ILL
693	2108.98	746897.74	77410.58	FND NAIL N TAG
694	2168.91	743395.95	75065.59	FND 2IN BC 1/4 S20/29 PLS 7008
695	2108.40	747023.39	77610.03	FND 4IN BC LVB ROW 48X PLS17829
696	2108.56	746898.13	77431.87	FND NAIL
697	2107.79	746964.87	77431.56	FND NAIL & TAG
698	2107.44	747206.49	77434.47	FND SCRIBE
699	2125.07	743675.97	77431.26	FND SCRIBE
1500	2128.07	743258.27	77594.44	FND BM 8C11 28NW/BM 8C11 28NWS

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

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

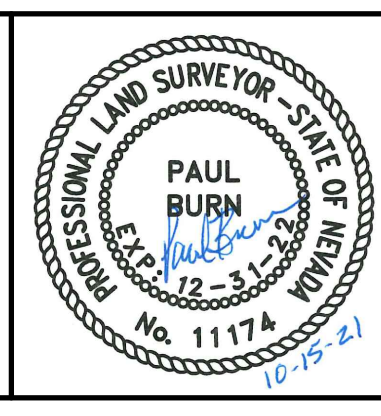
REV. NO.	DATE	DESCRIPTION	APPROVED



## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### HORIZONTAL CONTROL PLAN

## CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: WM  
 DESIGNED BY: WM CHECKED BY: CW  
 APPROVED BY: \_\_\_\_\_

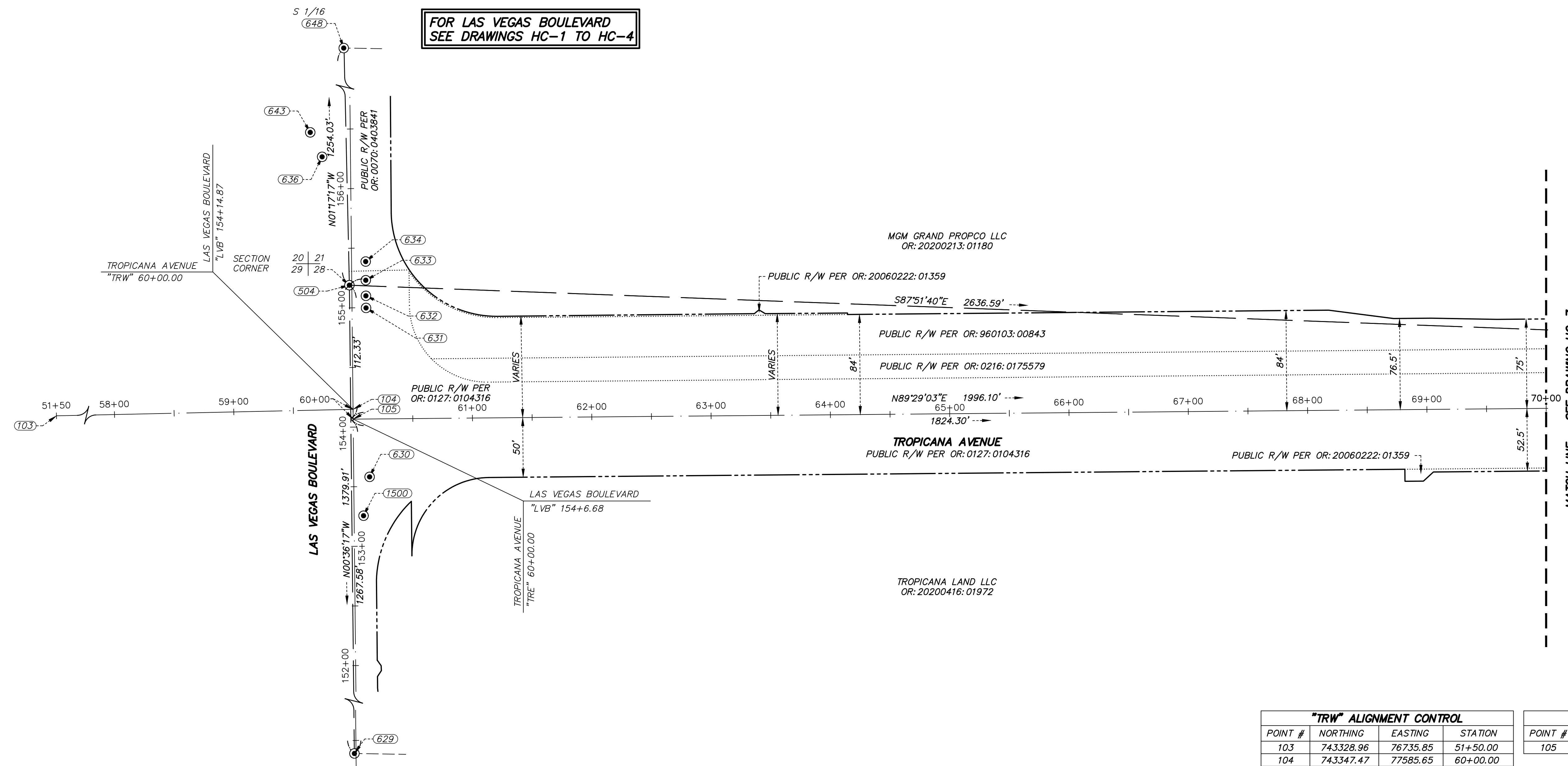
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcwengineering.com

SCALE	DRAWING NO.
HORIZ: 1" = 50'	HC-5
VERT: NONE	SHT. 9 OF 169
FIELD BOOK	L-2304

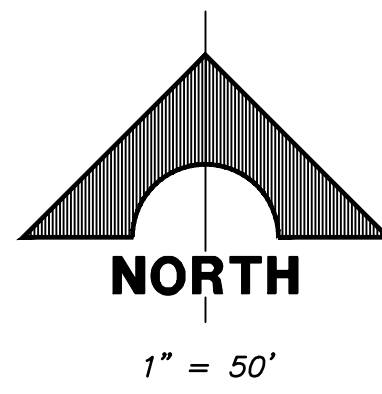
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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



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



"TRW" ALIGNMENT CONTROL				"TRE" ALIGNMENT CONTROL			
POINT #	NORTHING	EASTING	STATION	POINT #	NORTHING	EASTING	STATION
103	743328.96	76735.85	51+50.00	105	743339.28	77585.73	60+00.00
104	743347.47	77585.65	60+00.00				

**LEGEND**

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

**POINT TABLE**

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

10-18-21 07:23:19 C:\Users\Drines\Documents\Projects\Las Vegas Blvd Roadway Improvements\Drawings\HC-6.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**HORIZONTAL CONTROL PLAN**

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

PROJECT No: 500-897-LV-EF DRAWN BY: BAM

DESIGNED BY: BAM CHECKED BY: CW

APPROVED BY: \_\_\_\_\_

SCALE

HORIZ: 1" = 50'

VERT: NONE

FIELD BOOK

DRAWING NO. **HC-6**

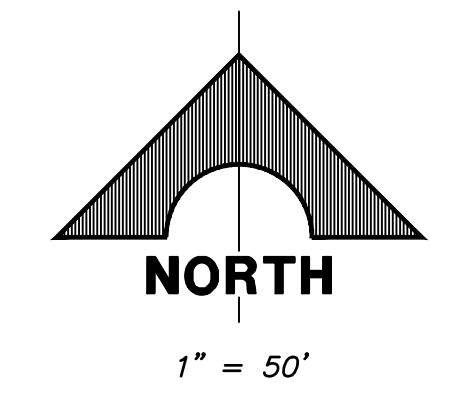
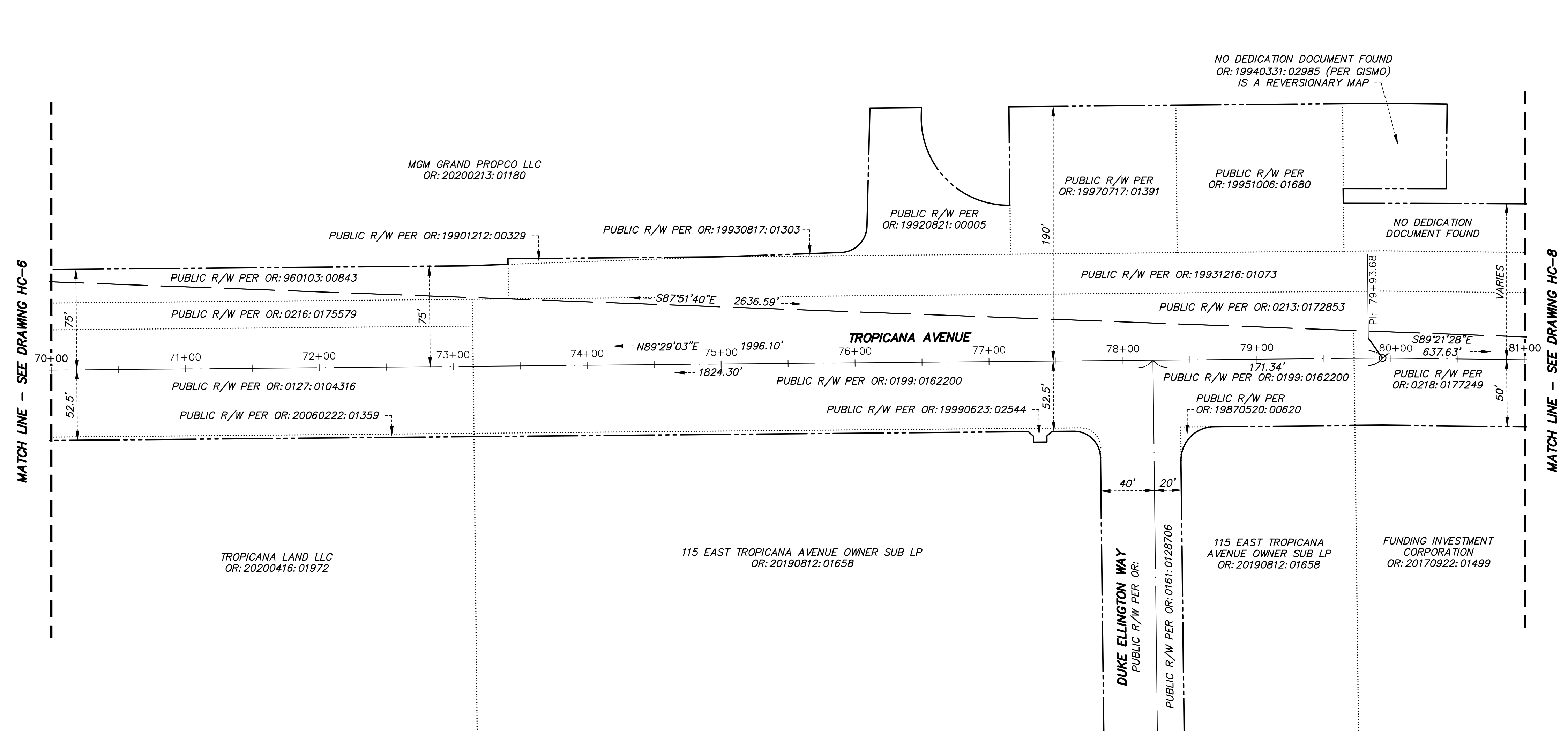
SHT. 10 OF 169

L-2304

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



10-18-21 07:23:21 C:\Users\Drines\Documents\Projects\Las Vegas\Las Vegas\Temp\AcPublish\17524\LVF\_03A\_HC\_Sheets.dwg  
 dlines



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

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**HORIZONTAL CONTROL PLAN**

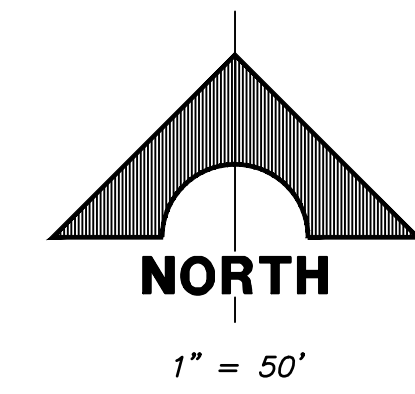
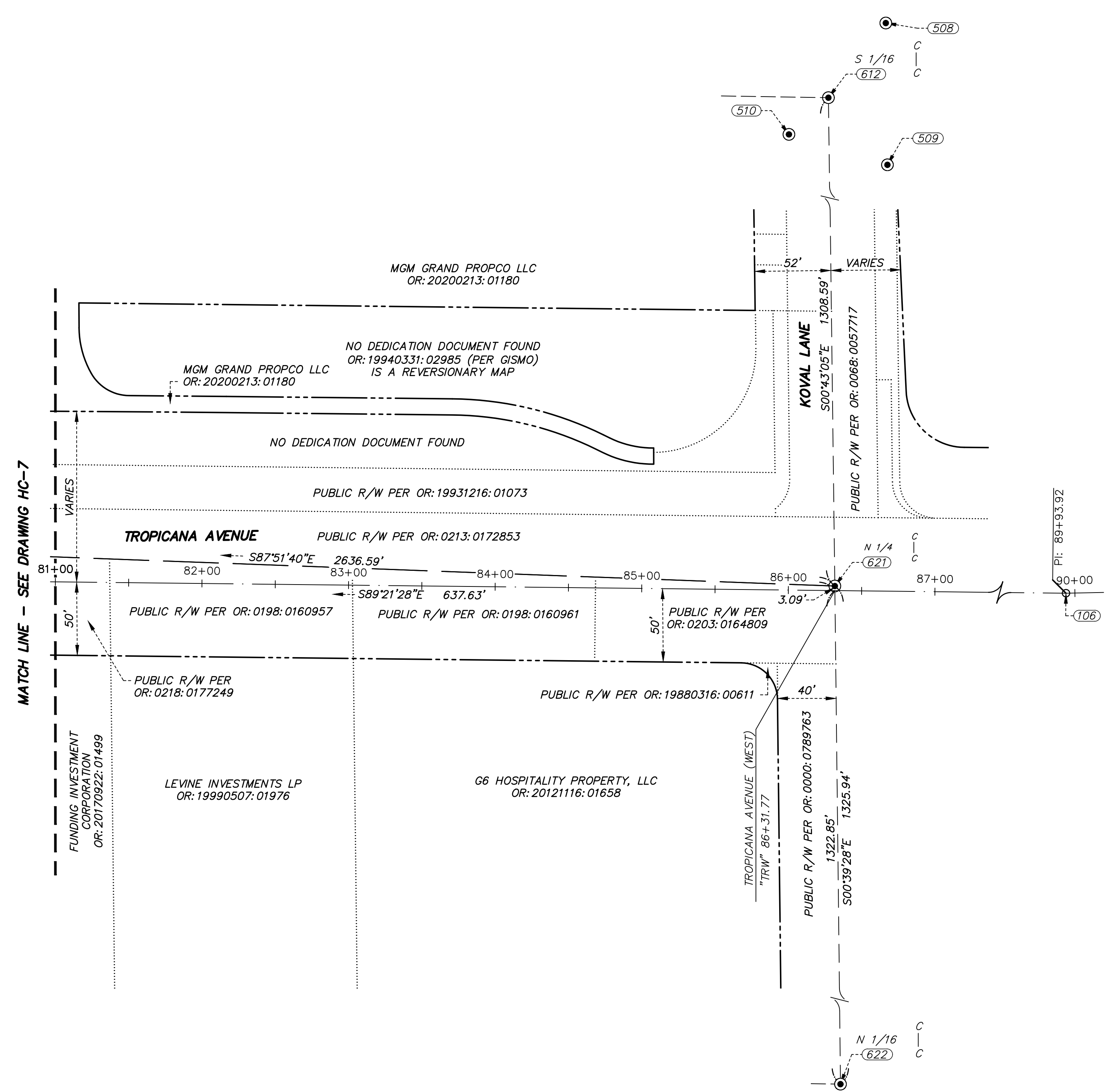
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

PROJECT No: 500-897-LV-EF	DRAWN BY: BAM	SCALE	DRAWING NO.
DESIGNED BY: BAM	CHECKED BY: CW	HORIZ: 1" = 50'	HC-7
APPROVED BY:		VERT: NONE	SHT. 11 OF 169
1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com		FIELD BOOK	L-2304

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



10-18-21 07:23:26 C:\Users\Drines\Documents\Projects\Las Vegas\Las Vegas\Temp\AcPublish\17524\LVF\_03A\_HC\_Sheets.dwg  
 dlines



**LEGEND**

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

**POINT TABLE**

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

**"TRE" ALIGNMENT CONTROL**

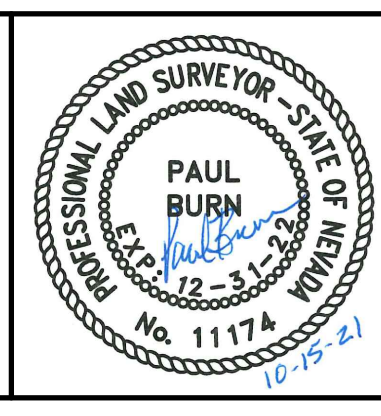
POINT #	NORTHING	EASTING	STATION
106	743346.02	80579.51	89+93.92

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**HORIZONTAL CONTROL PLAN**

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



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

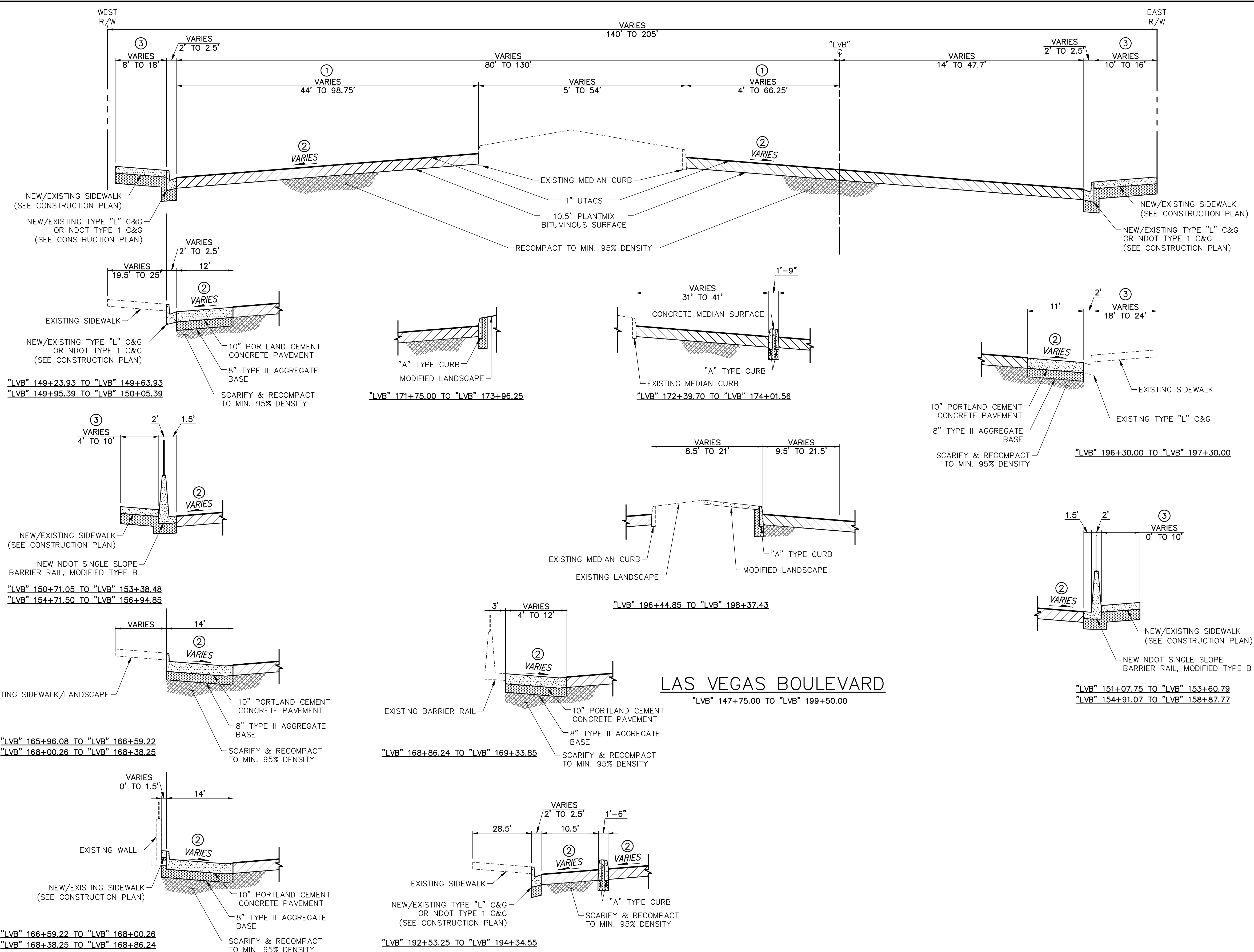
SCALE	DRAWING NO.
HORIZ: 1" = 50'	<b>HC-8</b>
VERT: NONE	SHT. 12 OF 169
FIELD BOOK	L-2304

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

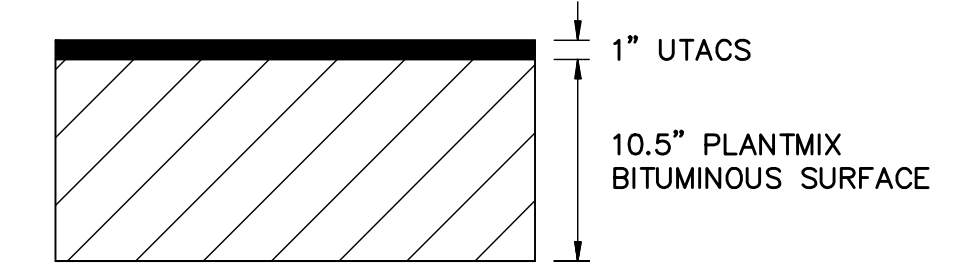


LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

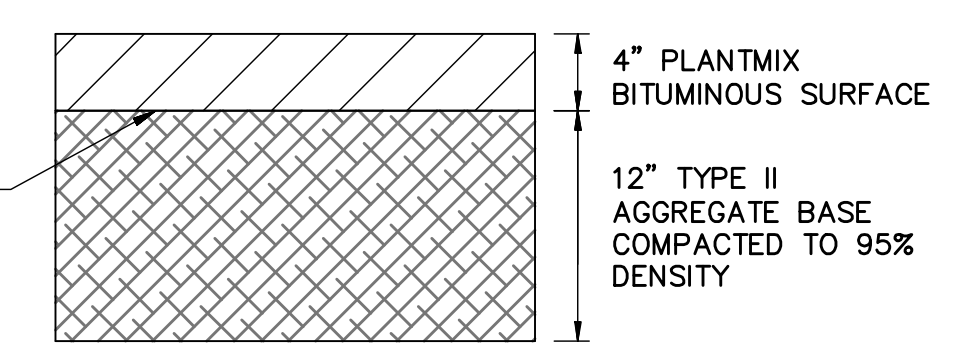
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



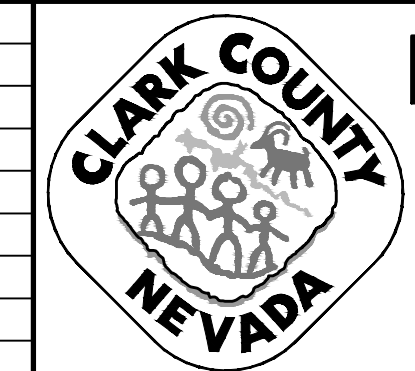
**PAVEMENT SECTION**  
LAS VEGAS BLVD & TROPICANA AVE



**PAVEMENT SECTION**  
ON-SITE



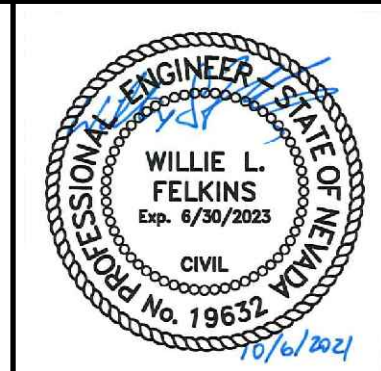
**LAS VEGAS BOULEVARD**



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**TYPICAL SECTIONS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

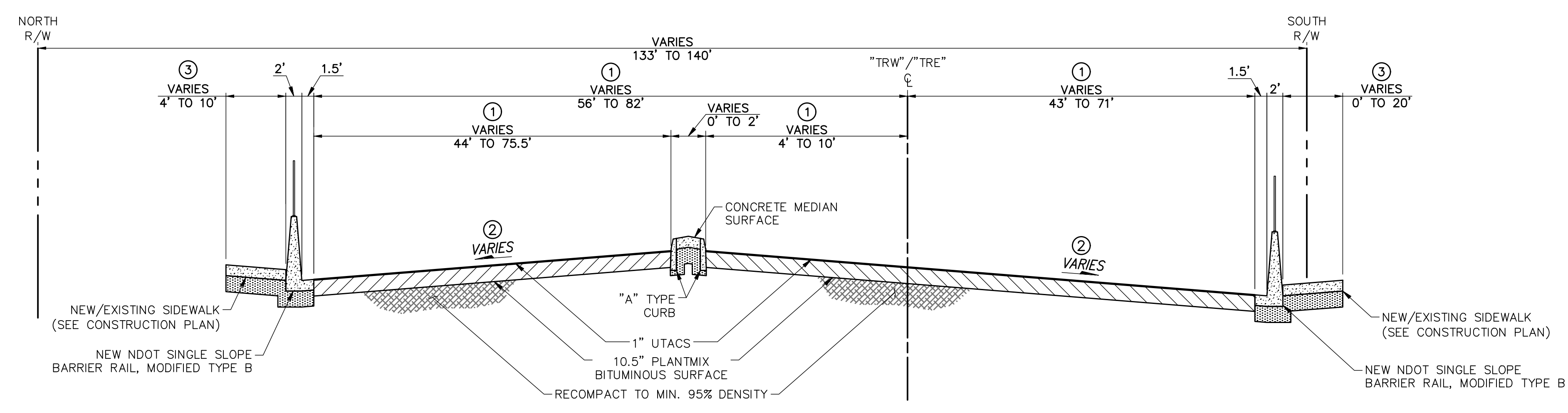
SCALE	DRAWING NO.
HORIZ: NONE	TY-1
VERT: NONE	SHT. 13 OF 169
FIELD BOOK	L-2304

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REV. NO.	DATE	DESCRIPTION	APPROVED



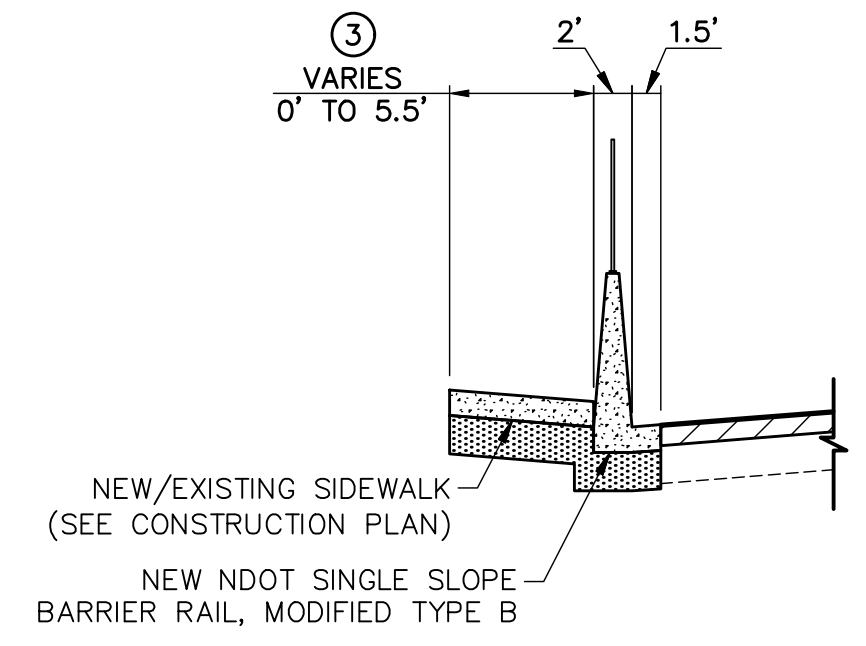
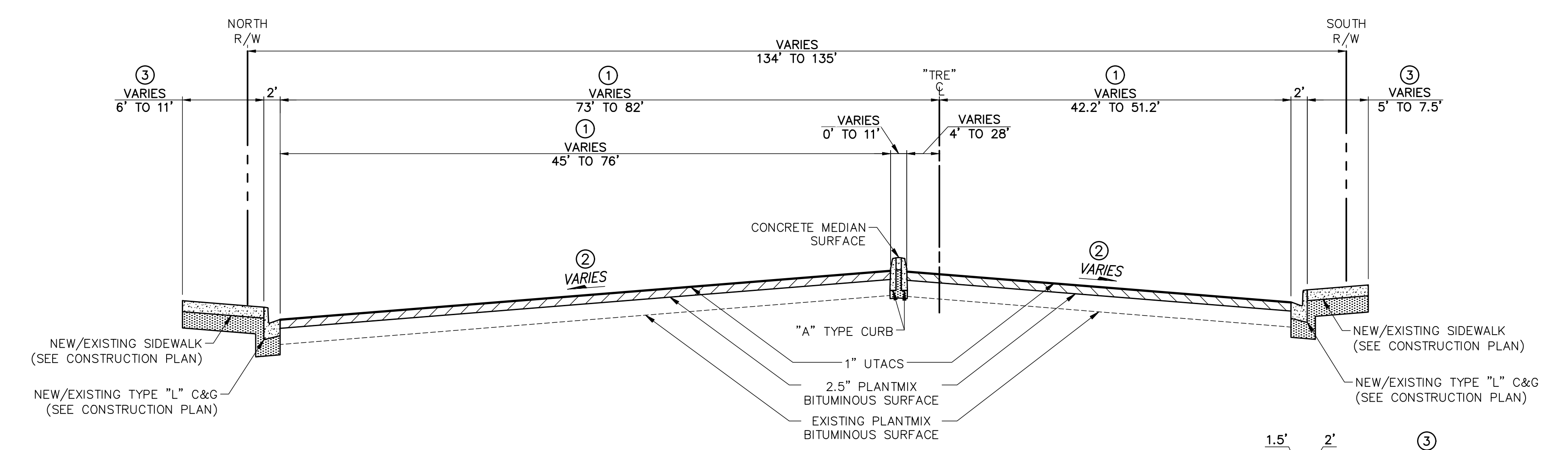
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



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

**TROPICANA AVENUE**

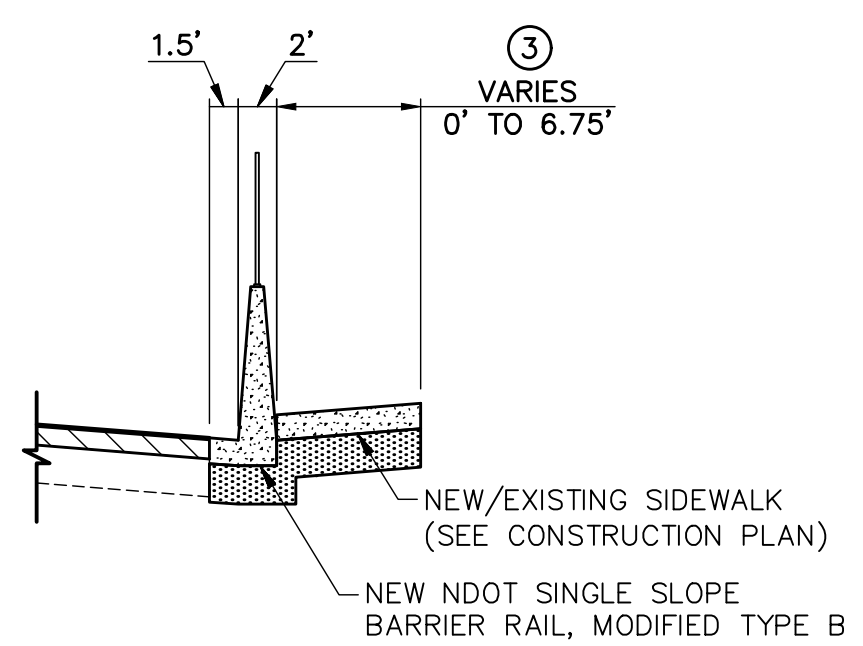
"TRW" 57+50.00 TO "TRW" 60+00.00  
 "TRE" 60+00.00 TO "TRE" 61+40.00



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

**TROPICANA AVENUE**

"TRW" 61+40.00 TO "TRW" 75+65.30



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

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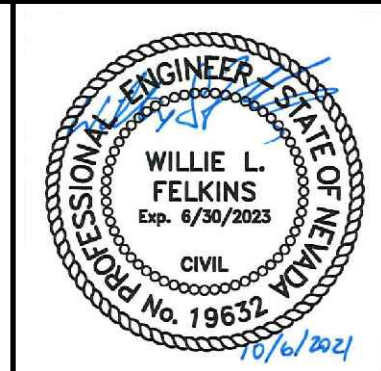
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**TYPICAL SECTIONS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TJS  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

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

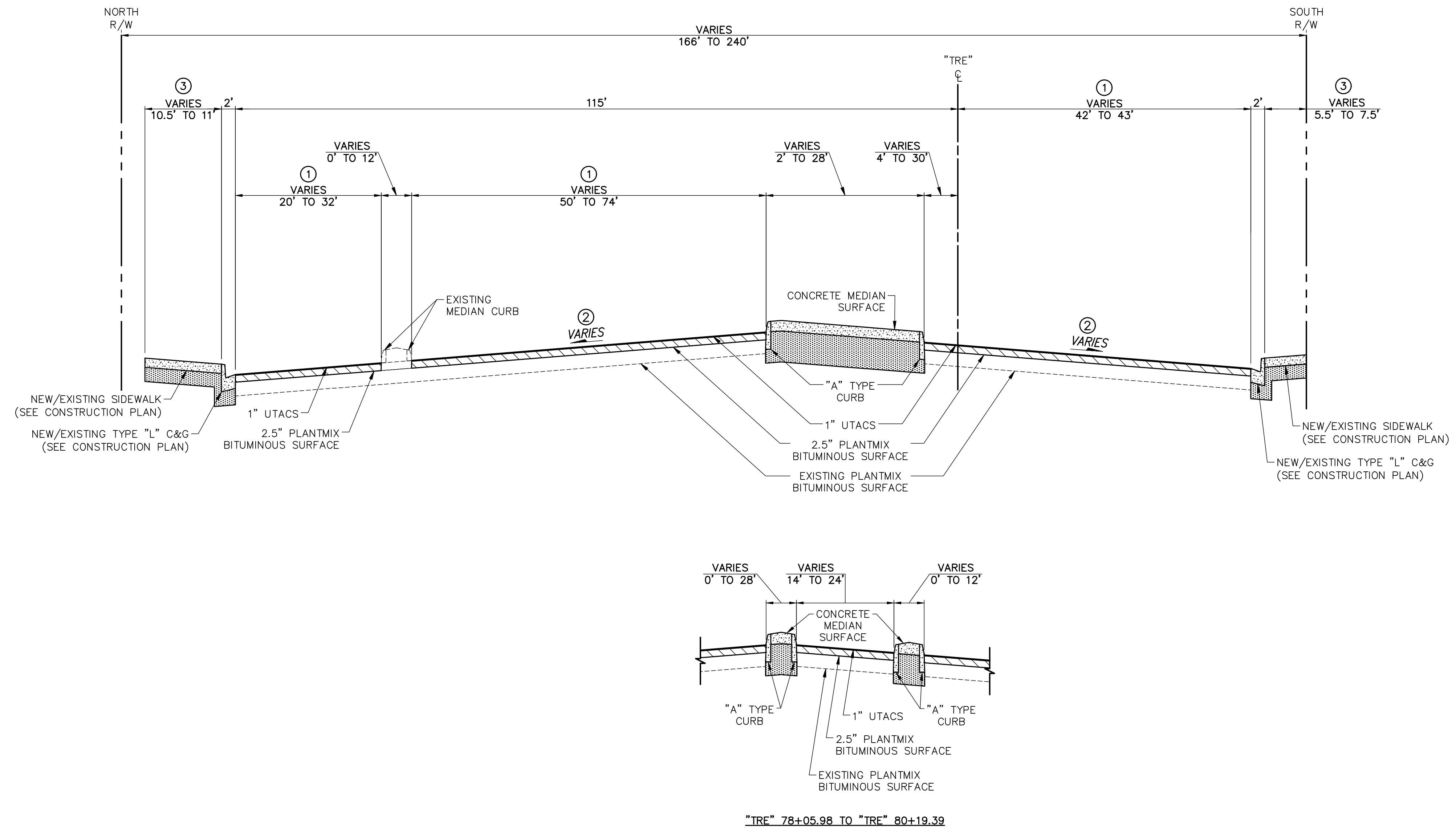
SCALE	DRAWING NO.
HORIZ: NONE	TY-2
VERT: NONE	SHT. 14 OF 169
FIELD BOOK	L-2304

BID NO.: 603978-21



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

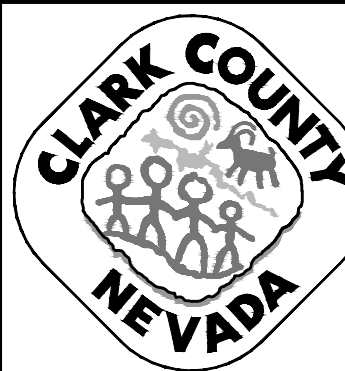
- NOTES**
- ① PAVEMENT WIDTH VARIES - SEE CONSTRUCTION PLANS.
  - ② CROSS SLOPE VARIES - MATCH EXISTING.
  - ③ SIDEWALK WIDTH VARIES - SEE CONSTRUCTION PLANS.



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

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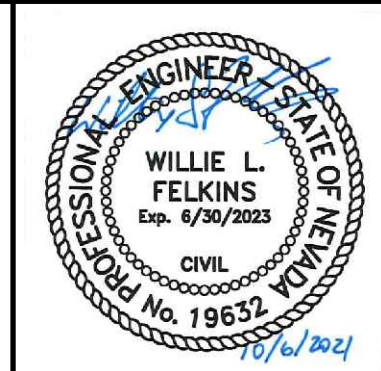
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**TYPICAL SECTIONS**

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



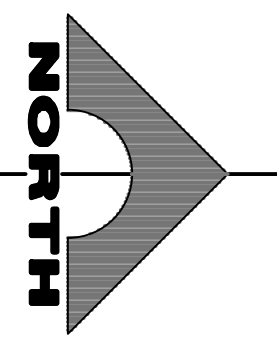
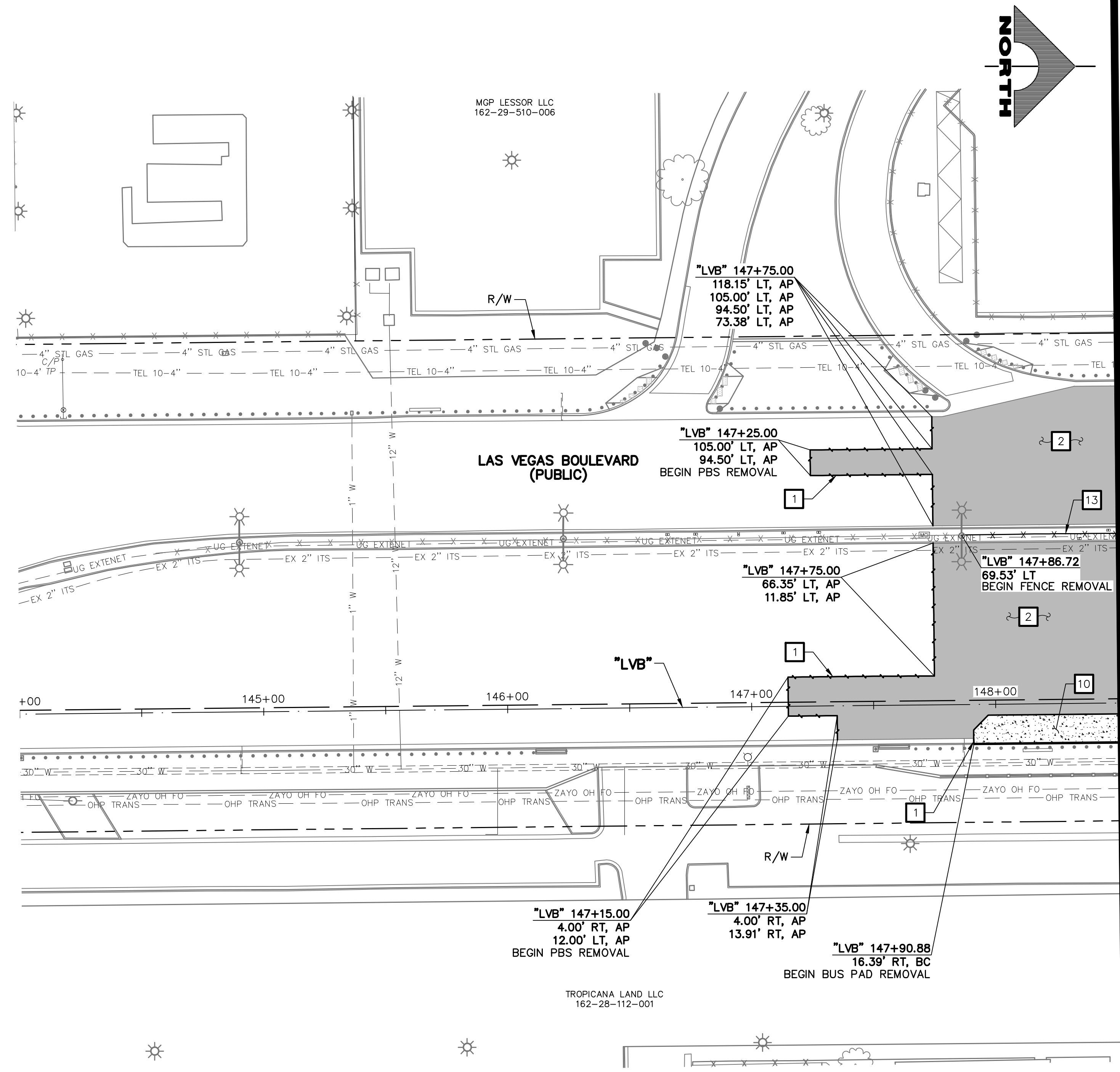
PROJECT No: 500-897-LV-EF DRAWN BY: TJS  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TY-3</b>
VERT: NONE	SHT. 15 OF 169
FIELD BOOK	L-2304

BID NO.: 603978-21



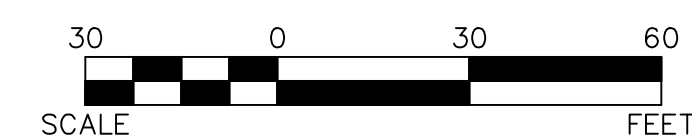


SEE DRAWING NO. R-2  
MATCHLINE  
"LVB" 148+50.00

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

**LEGEND**

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

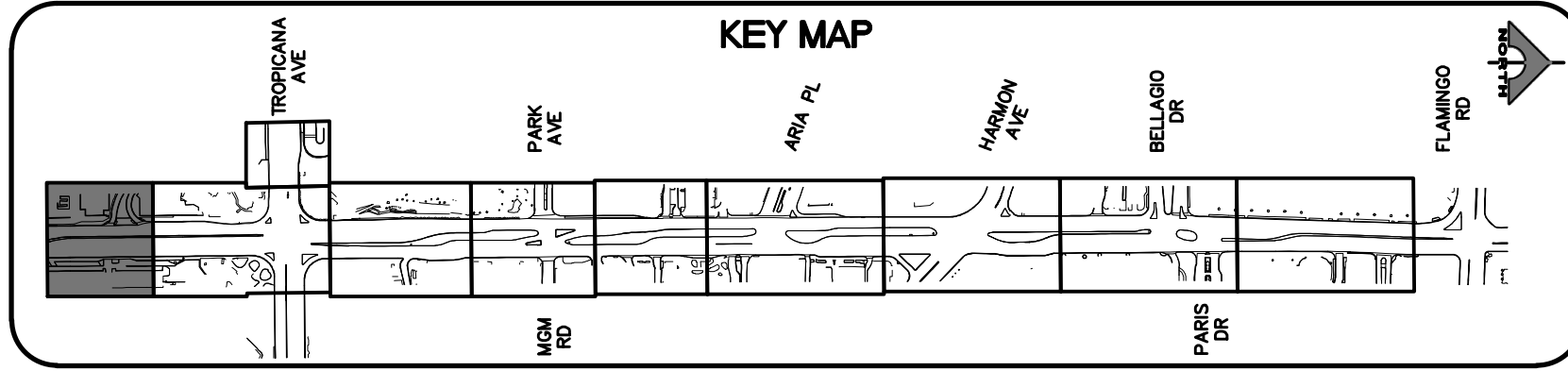


PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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

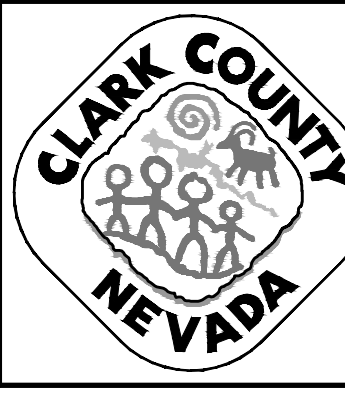


**CALL BEFORE YOU DIG**  
1-702-227-2929

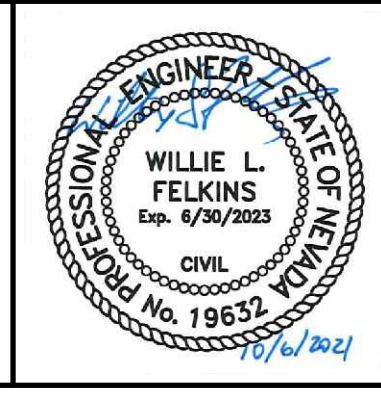
**FAST**  
Call before you UnderGround.  
1-702-432-5300

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



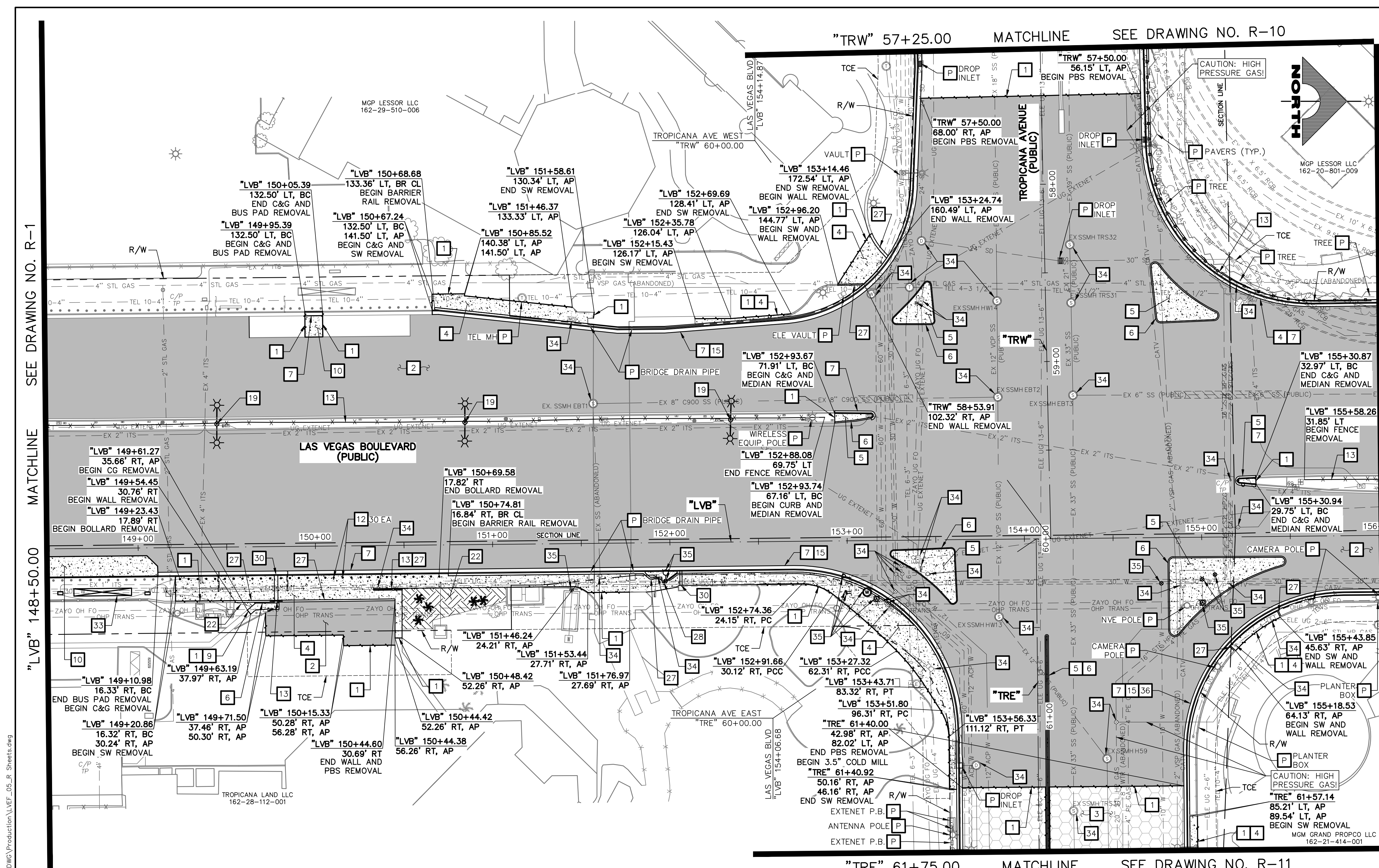
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

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

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO. **R-1**  
SHT. 16 OF 169  
L-2304





**REMOVAL NOTES**

- SAWCUT AND MATCH EXISTING
- REMOVE PLANTMIX BITUMINOUS SURFACE
- COLD MILL (3.5-INCH DEPTH)
- REMOVE CONCRETE SIDEWALK
- REMOVE CONCRETE MEDIAN SURFACE
- REMOVE CURB
- REMOVE CURB AND GUTTER
- NOT USED
- REMOVE CROSS GUTTER
- REMOVE CONCRETE BUS PAD
- REMOVE AND SALVAGE BOLLARD (T-BOLLARD)
- REMOVE BOLLARD (SHALLOW MOUNT)
- REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
- REMOVE LANE SEPARATOR WITH FLEXIBLE DELINEATORS
- REMOVE CONCRETE BARRIER RAIL
- REMOVE WALK OF STAR PLAQUE (BY OTHERS)
- REMOVE STORM DRAIN PIPE
- REMOVE REINFORCED CONCRETE BOX
- REMOVE AND SALVAGE STREET LIGHT. REMOVE FOUNDATION IN ITS ENTIRETY.
- REMOVE AND SALVAGE SERVICE PEDESTAL
- REMOVE CONCRETE PAVERS
- REMOVE LANDSCAPING/IRRIGATION AND RECONNECT IRRIGATION
- REMOVE TREE
- REMOVE AND RESET PRIVATE BOLLARD
- REMOVE AND RESET CHAIN-LINK FENCE
- NOT USED
- REMOVE WALL AND FOOTING
- REMOVE GATE
- REMOVE IMPACT ATTENUATOR
- REMOVE SIDEWALK DRAIN
- REMOVE HANDRAIL
- REMOVE WALL BY CHIPPING DOWN TOP 12 INCHES (SEE DETAIL F, DWG. DT-7)
- REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
- ADJUST/RELOCATE/REMOVE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE U-DRAWINGS)
- WATER APPURTENANCES TO BE REMOVED BY LVVWD CONTRACT NO. C1497 PLANS
- REMOVE ELEVATOR TELEPHONE LINE CONDUCTORS FROM BARRIER RAIL FROM/TO NEAREST SPLICE BOXES
- PROTECT-IN-PLACE

**LEGEND**

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

SCALE: 30 0 30 60 FEET

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

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

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

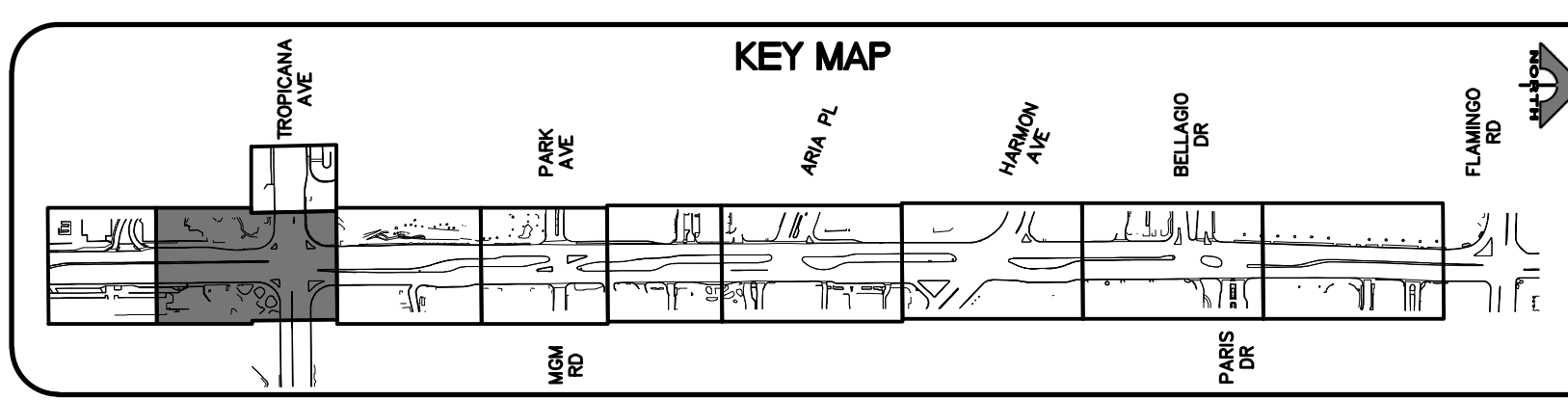
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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



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

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**REMOVAL PLAN**

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

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

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

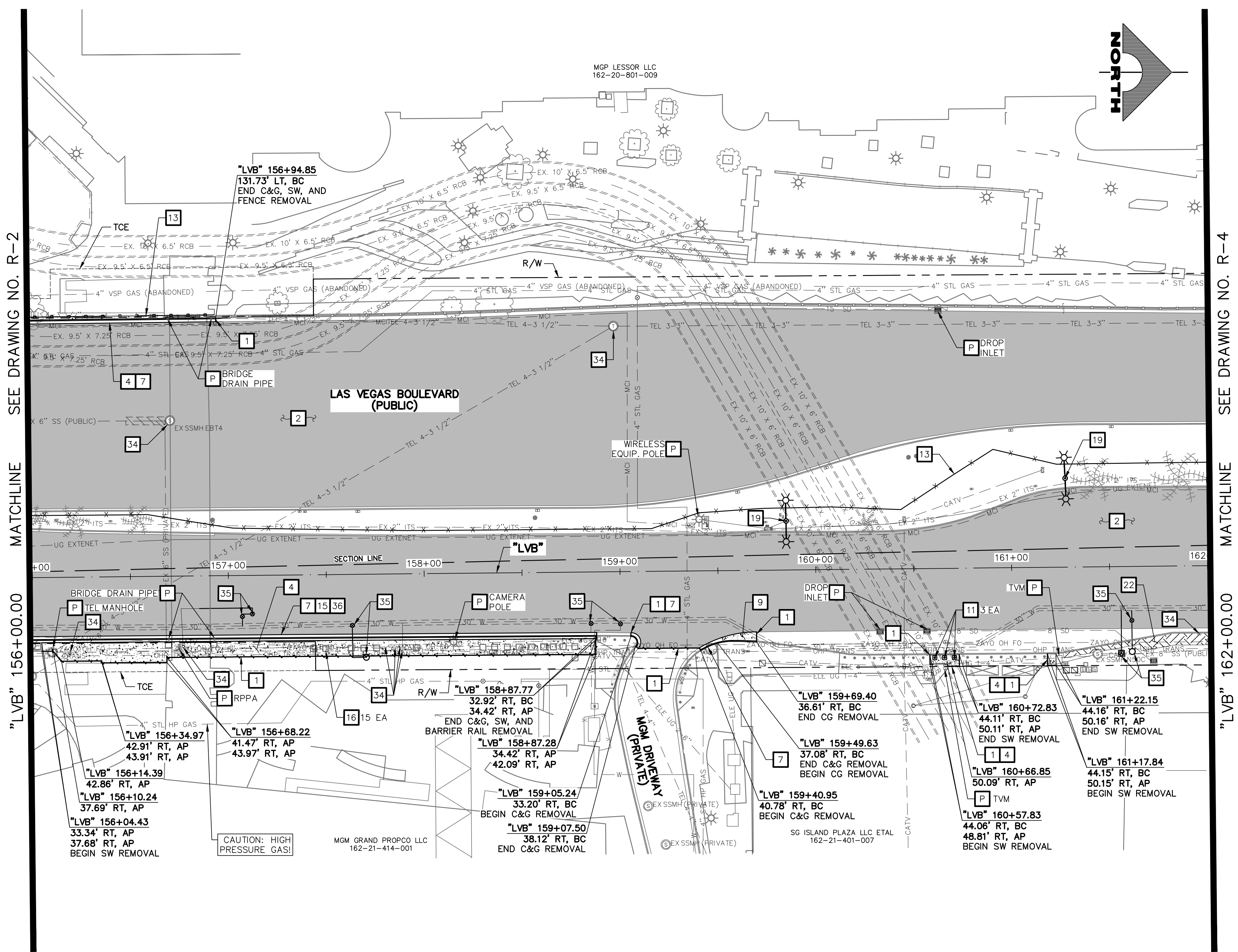
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DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

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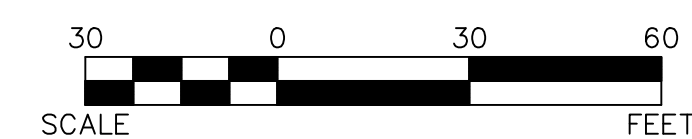
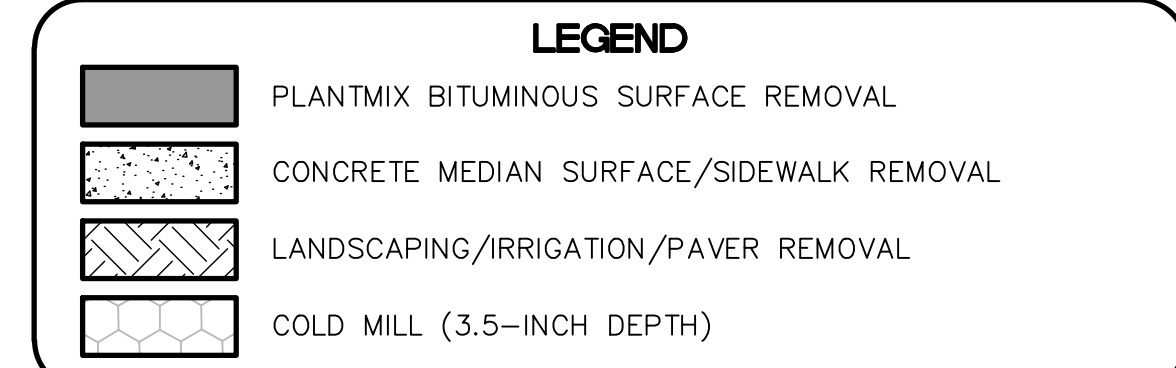
DRAWING NO. **R-2**  
SHT. 17 OF 169  
L-2304



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



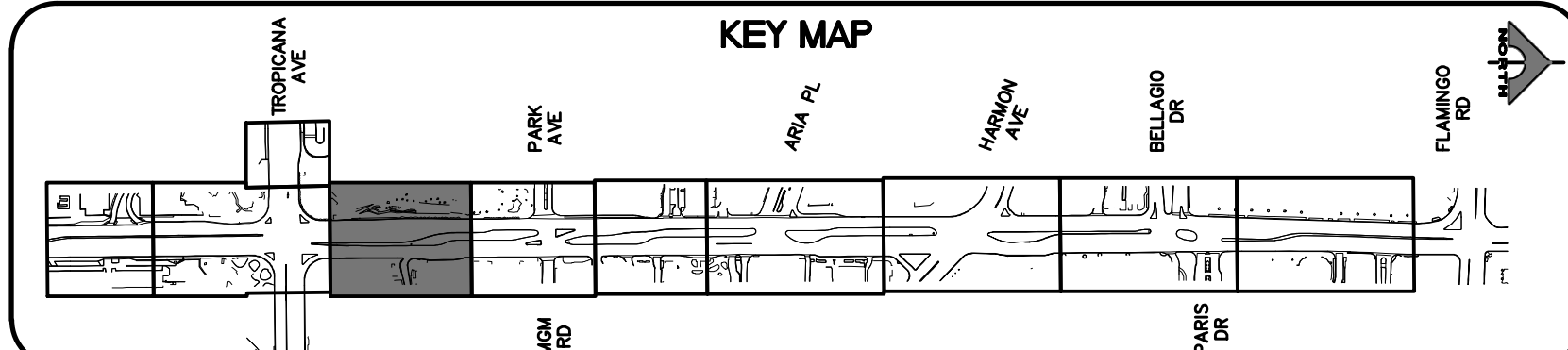
- REMOVAL NOTES**
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**  
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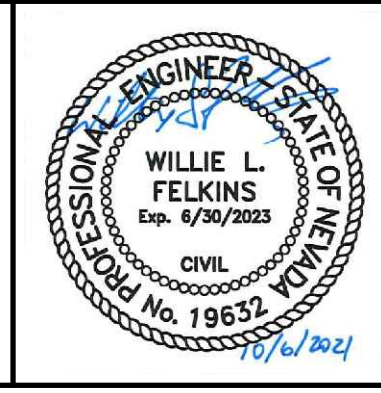
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**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**REMOVAL PLAN**  
"LVB" 156+00.00 TO "LVB" 162+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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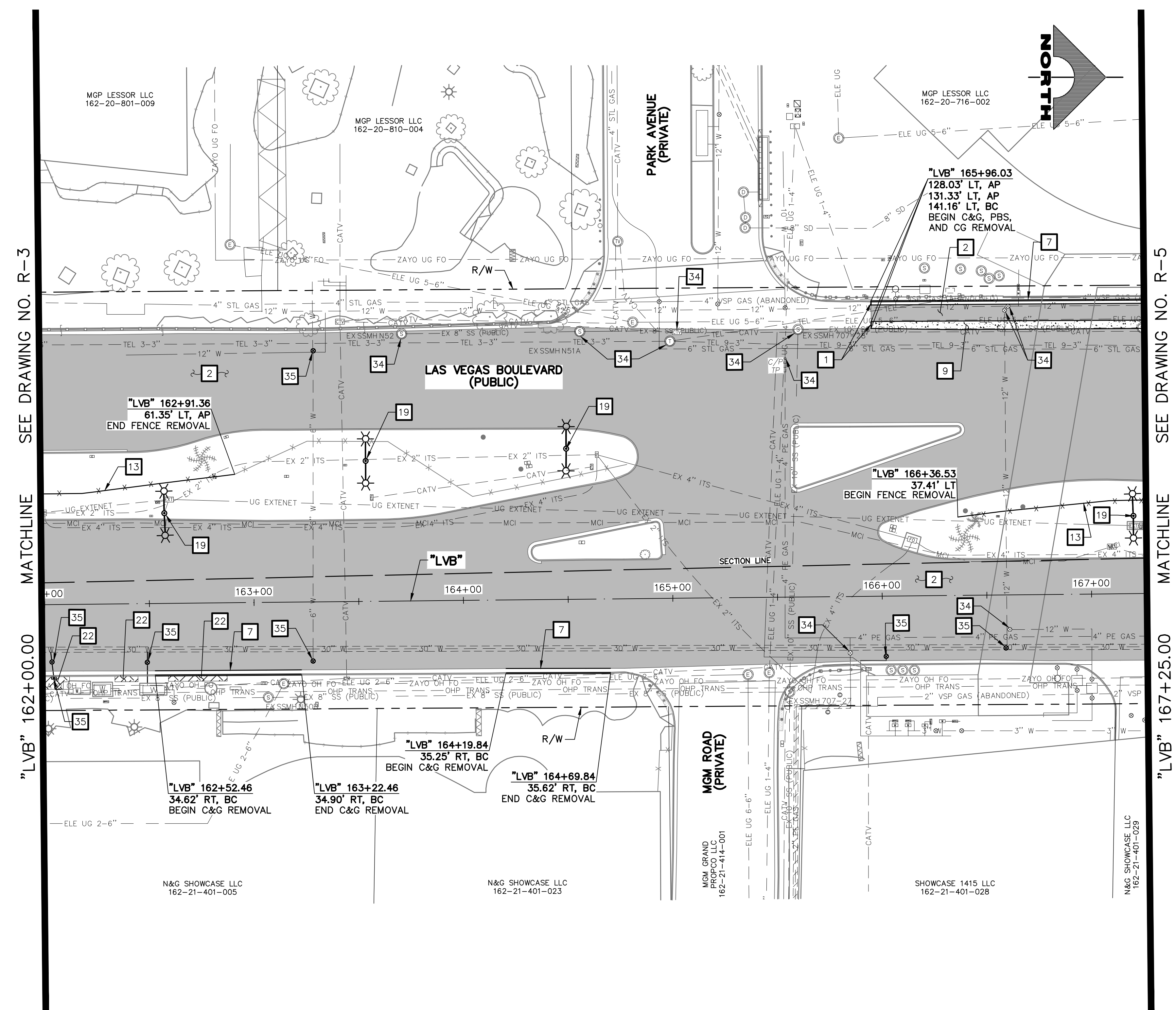
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VERT: NONE  
FIELD BOOK  
DRAWING NO. **R-3**  
SHT. 18 OF 169  
L-2304

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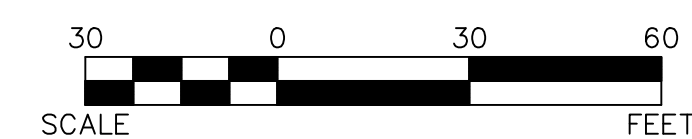
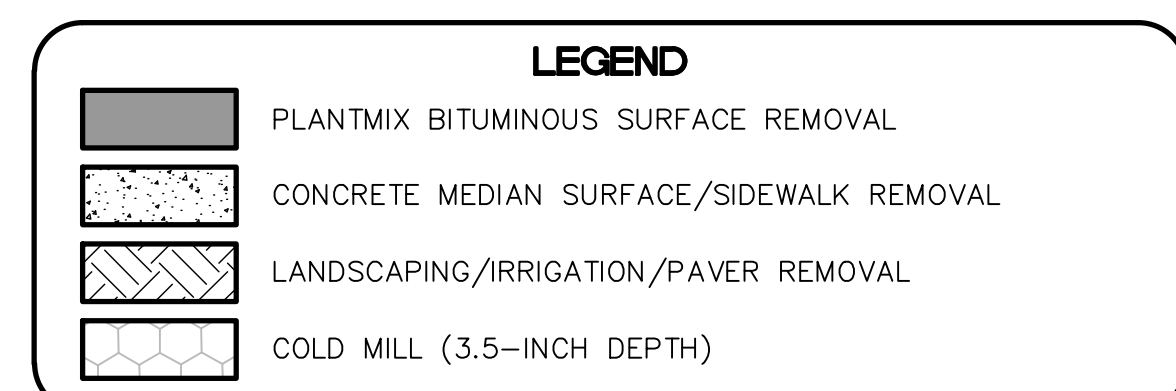
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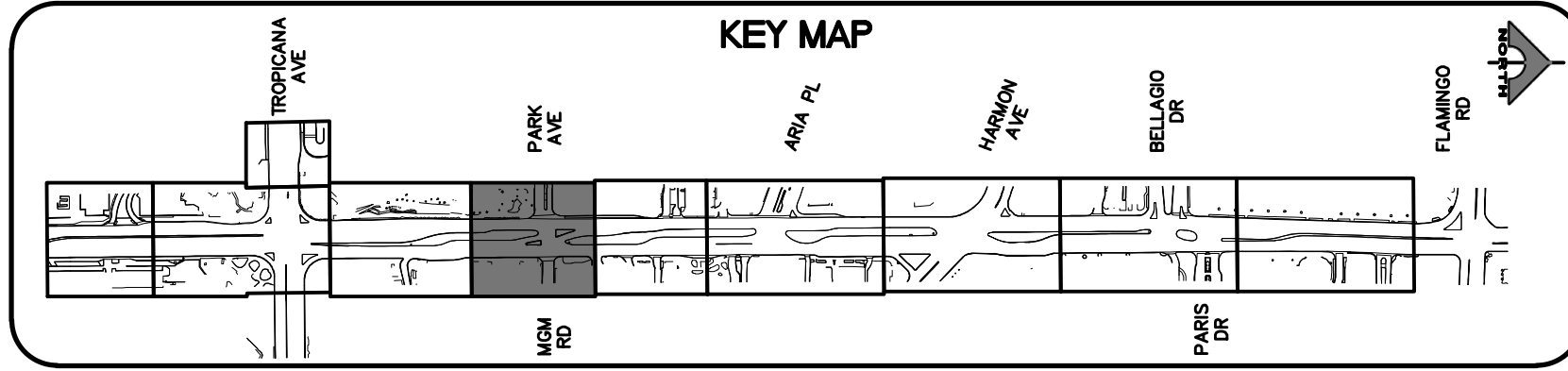
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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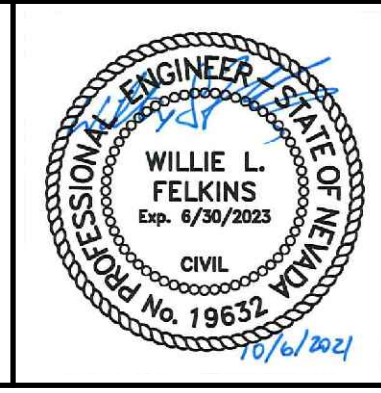


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**REMOVAL PLAN**

**"LVB" 162+00.00 TO "LVB" 167+25.00**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

**GCV**  
ENGINEERS \ SURVEYORS

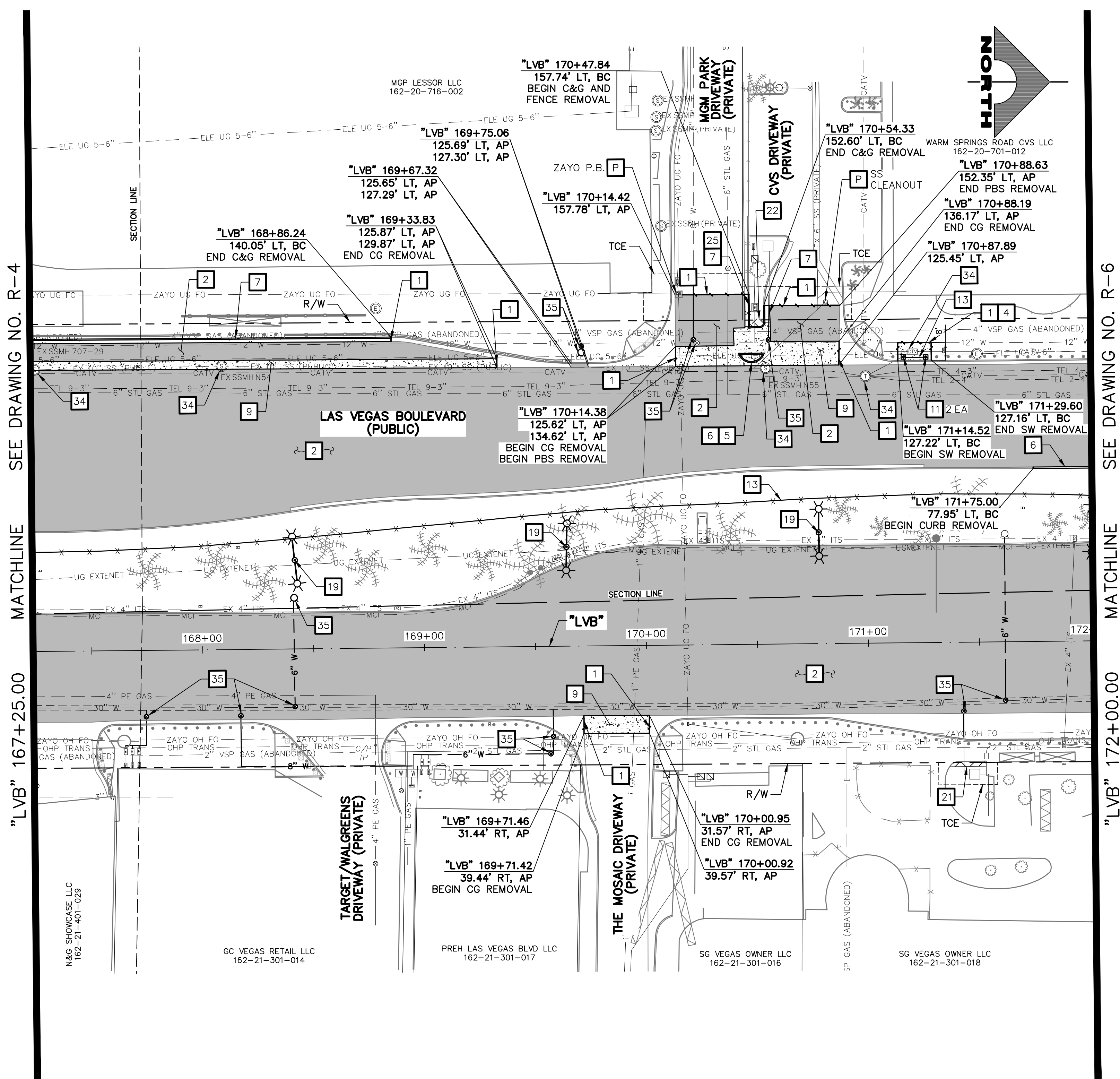
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-4
VERT: NONE	SHT. 19 OF 169
FIELD BOOK	L-2304

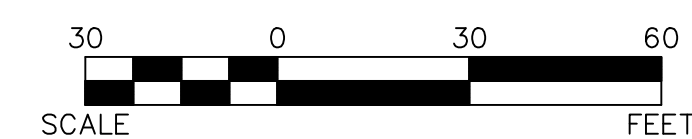
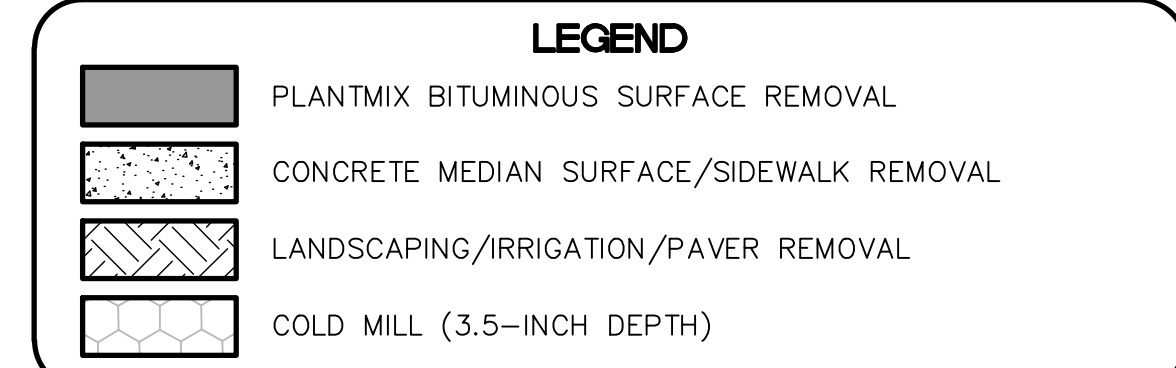
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



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- ### REMOVAL NOTES
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**SOUTHWEST GAS VALVE NOTE**  
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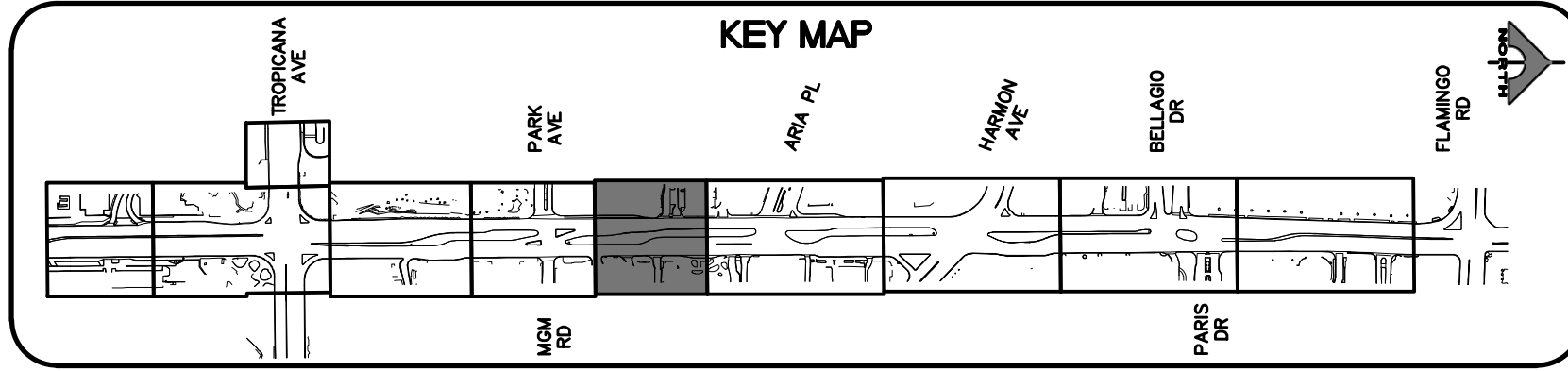
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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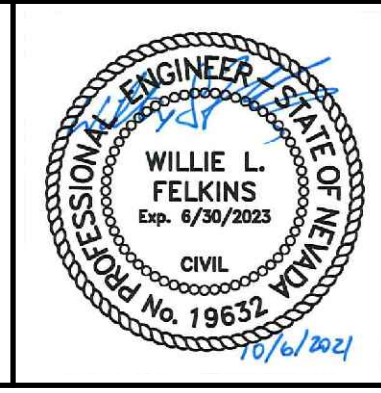


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### REMOVAL PLAN

#### "LVB" 167+25.00 TO "LVB" 172+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

**GCV**  
ENGINEERS \ SURVEYORS

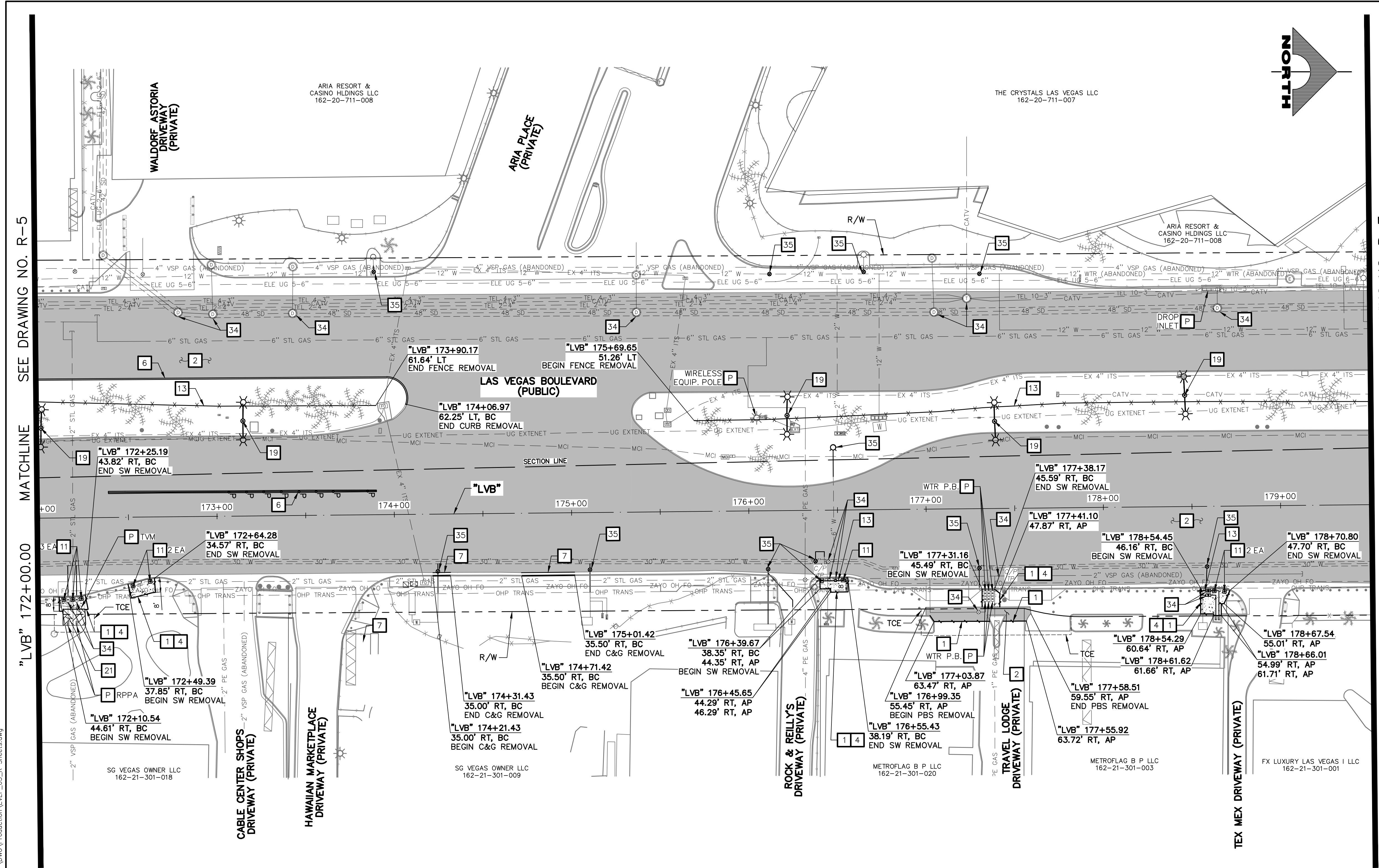
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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gcvengineering.com

SCALE  
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FIELD BOOK

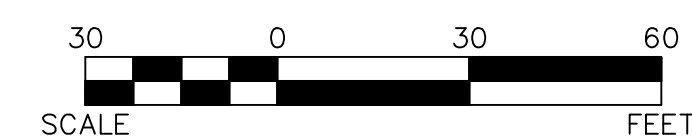
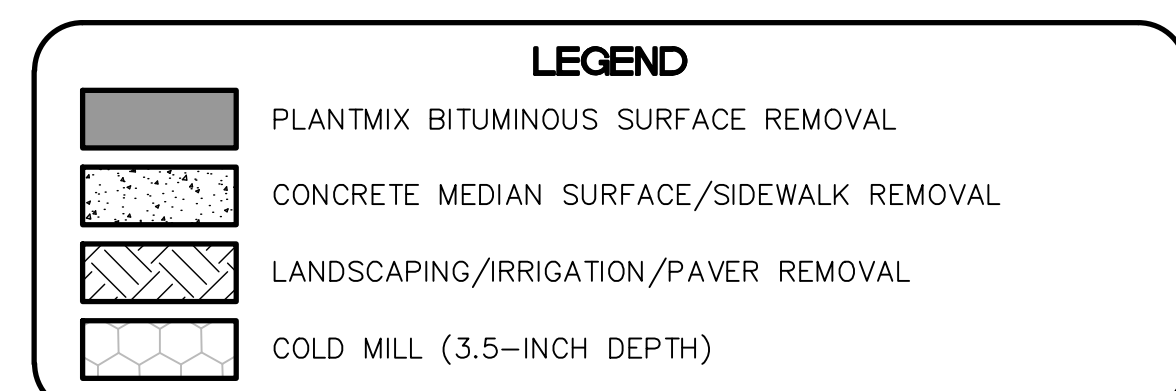
DRAWING NO.  
**R-5**  
SHT. 20 OF 169  
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





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  - P PROTECT-IN-PLACE



SEE DRAWING NO. R-5  
MATCHLINE

SEE DRAWING NO. R-7  
MATCHLINE

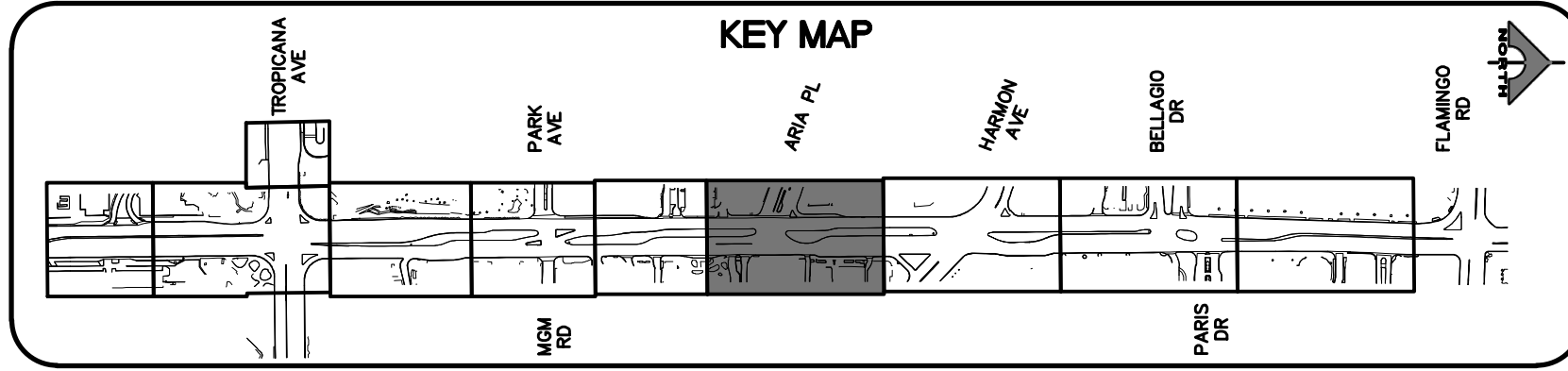
"LVB" 172+00.00

"LVB" 179+50.00

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**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

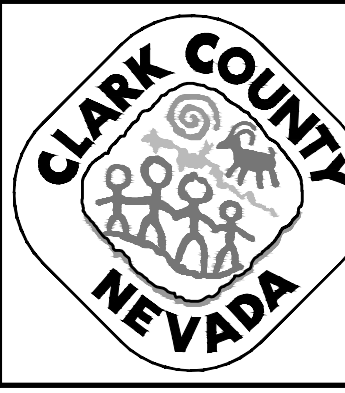
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
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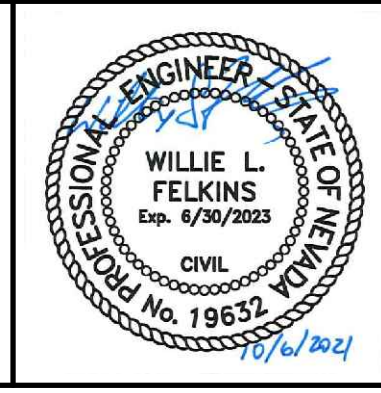
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**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**REMOVAL PLAN**  
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CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



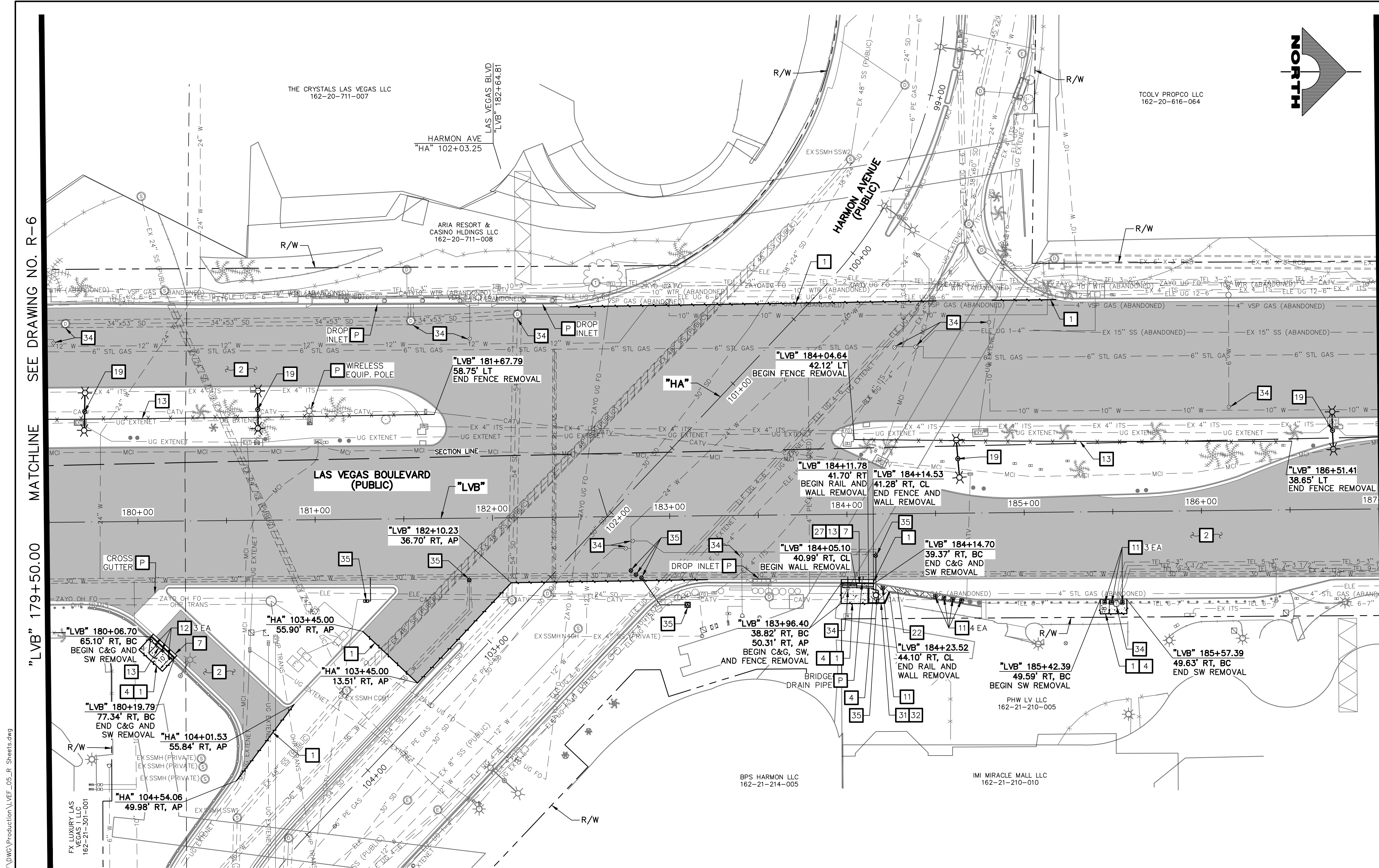
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	R-6
VERT: NONE	SHT. 21 OF 169
FIELD BOOK	L-2304

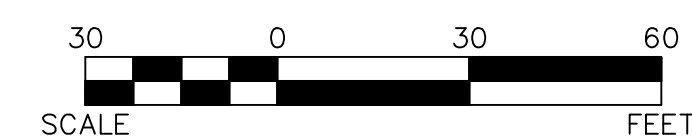
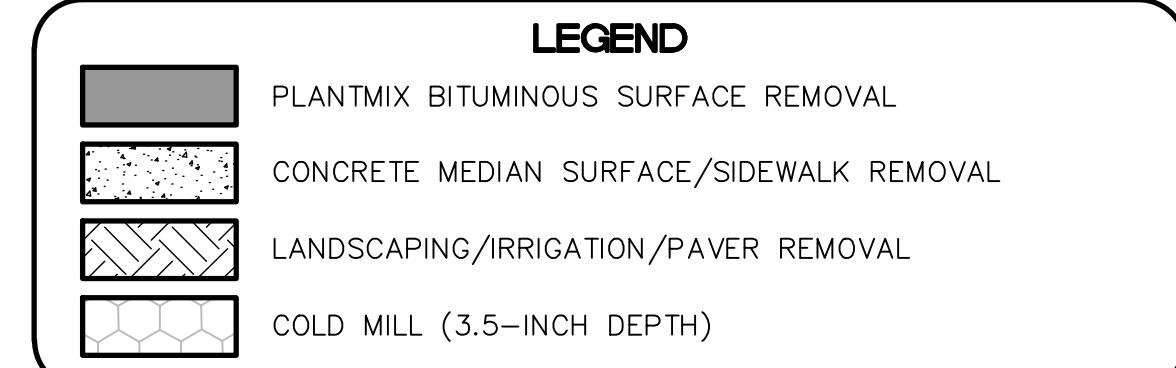
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





- REMOVAL NOTES**
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (3.5-INCH DEPTH)
  - 4 REMOVE CONCRETE SIDEWALK
  - 5 REMOVE CONCRETE MEDIAN SURFACE
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  - 7 REMOVE CURB AND GUTTER
  - 8 NOT USED
  - 9 REMOVE CROSS GUTTER
  - 10 REMOVE CONCRETE BUS PAD
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  - 12 REMOVE BOLLARD (SHALLOW MOUNT)
  - 13 REMOVE AND SALVAGE PEDESTRIAN CONTAINMENT FENCE
  - 14 REMOVE LANE SEPARATOR WITH FLEXIBLE DELINEATORS
  - 15 REMOVE CONCRETE BARRIER RAIL
  - 16 REMOVE WALK OF STAR PLAQUE (BY OTHERS)
  - 17 REMOVE STORM DRAIN PIPE
  - 18 REMOVE REINFORCED CONCRETE BOX
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  - 36 REMOVE ELEVATOR TELEPHONE LINE CONDUCTORS FROM BARRIER RAIL FROM/TO NEAREST SPLICE BOXES
  - P PROTECT-IN-PLACE



SEE DRAWING NO. R-6 MATCHLINE

MATCHLINE SEE DRAWING NO. R-8

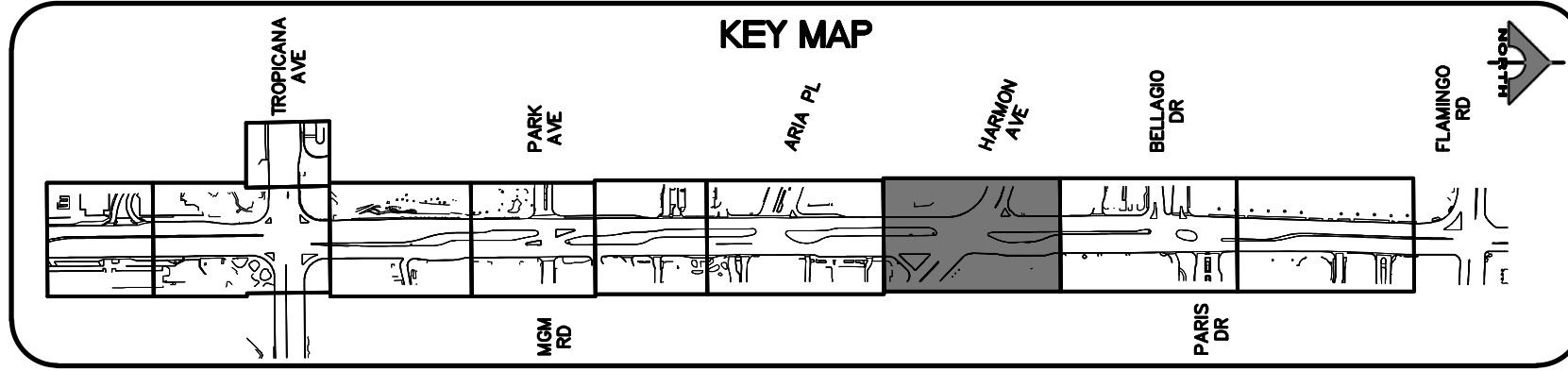
"LVB" 179+50.00

"LVB" 187+00.00

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

**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE:

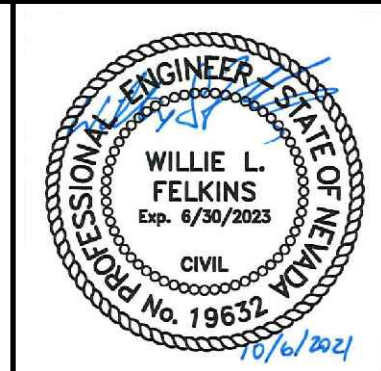
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CCWRD PIPES NUMBER: 21.983  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



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



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



PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
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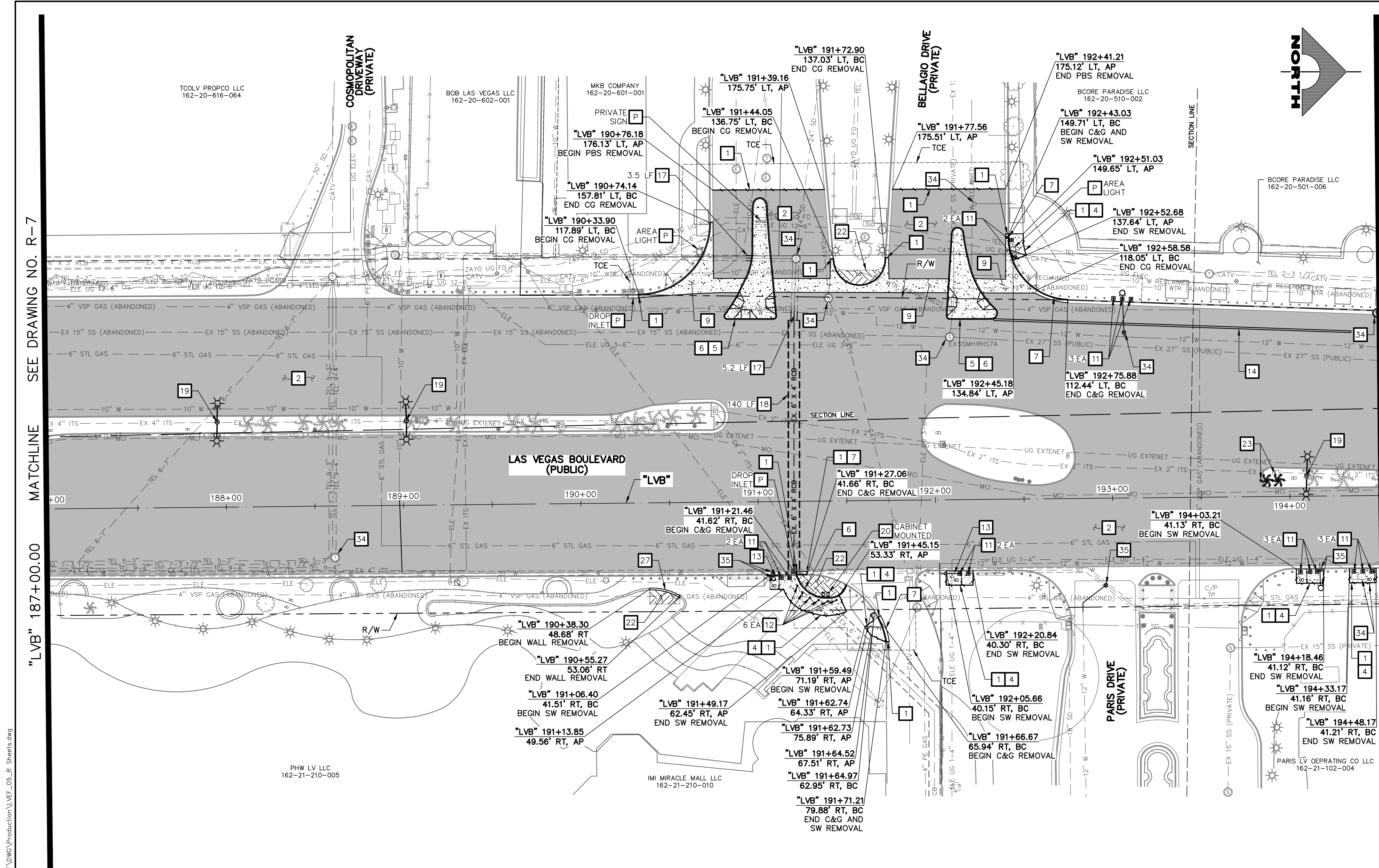
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HORIZ: AS SHOWN	R-7
VERT: NONE	SHT. 22 OF 169
FIELD BOOK	L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

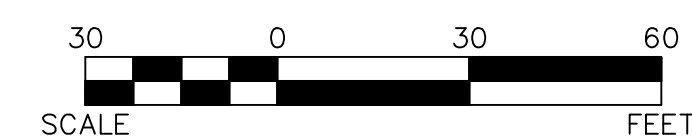
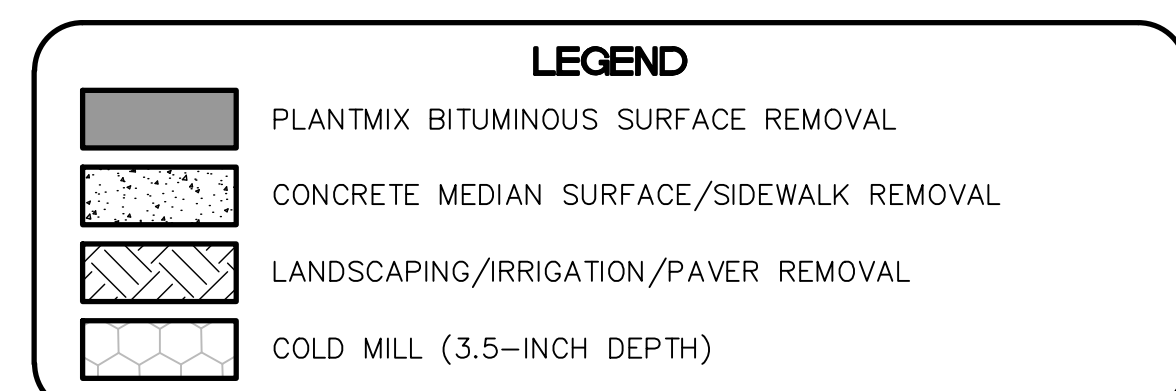
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





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

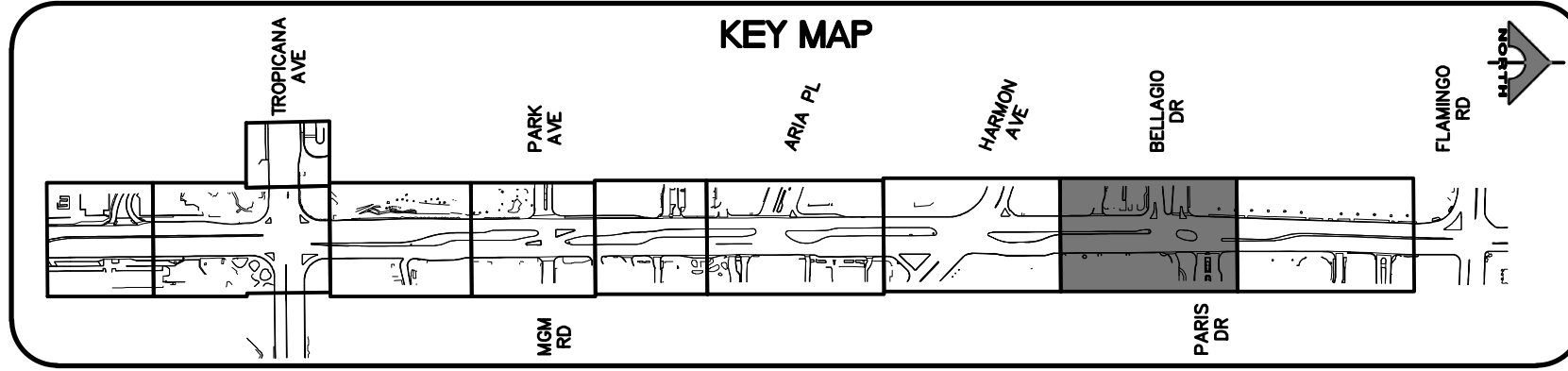
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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



**SOUTHWEST GAS VALVE NOTE**

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

REV. NO.	DATE	DESCRIPTION	APPROVED

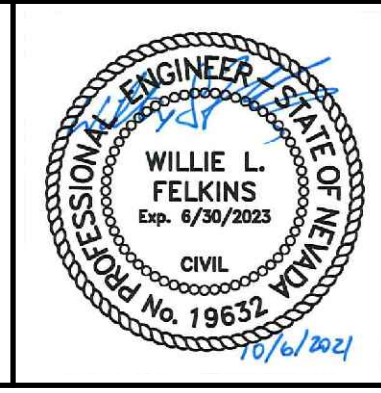


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### REMOVAL PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

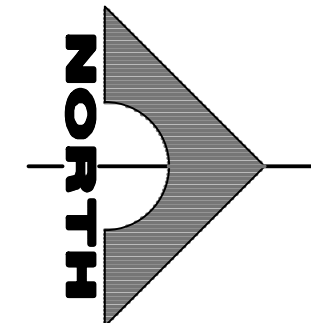
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**R-8**  
SHT. 23 OF 169  
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21



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

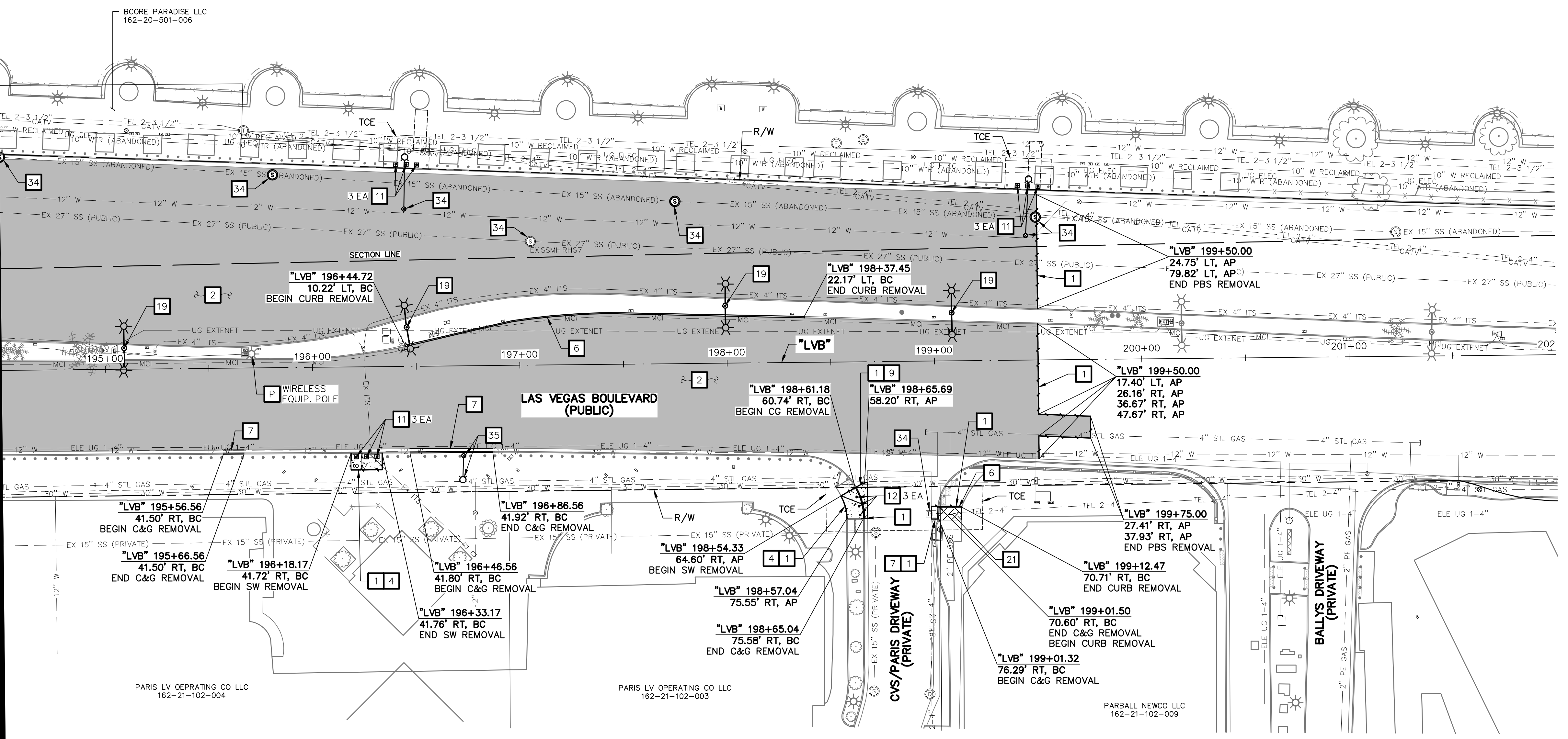


BCORE PARADISE LLC  
162-20-510-002

SEE DRAWING NO. R-8

MATCHLINE

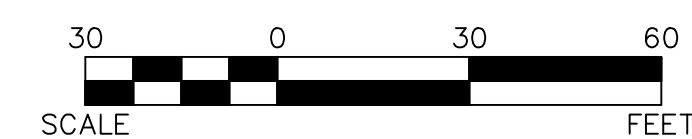
"LVB" 194+50.00



- REMOVAL NOTES**
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  - P PROTECT-IN-PLACE

**LEGEND**

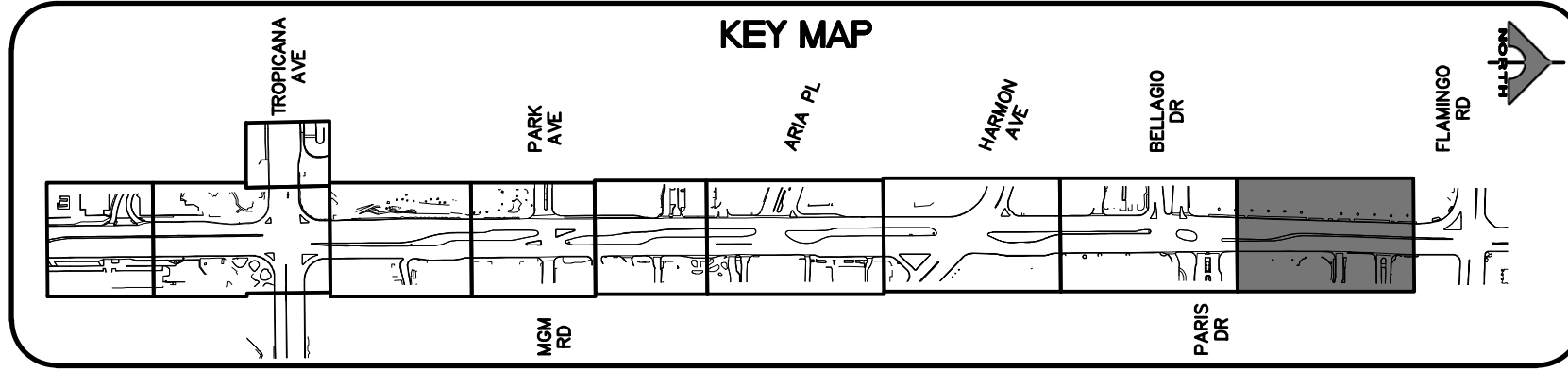
- PLANTMIX BITUMINOUS SURFACE REMOVAL
- CONCRETE MEDIAN SURFACE/SIDEWALK REMOVAL
- LANDSCAPING/IRRIGATION/PAVER REMOVAL
- COLD MILL (3.5-INCH DEPTH)



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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



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

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

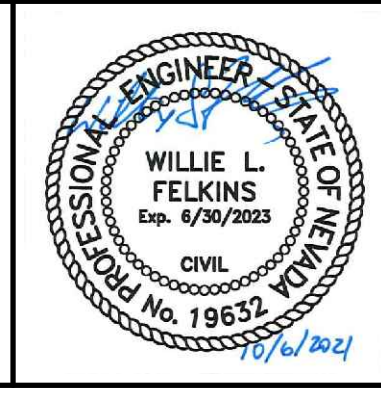
**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.  
Call 811  
1-800-227-2600

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



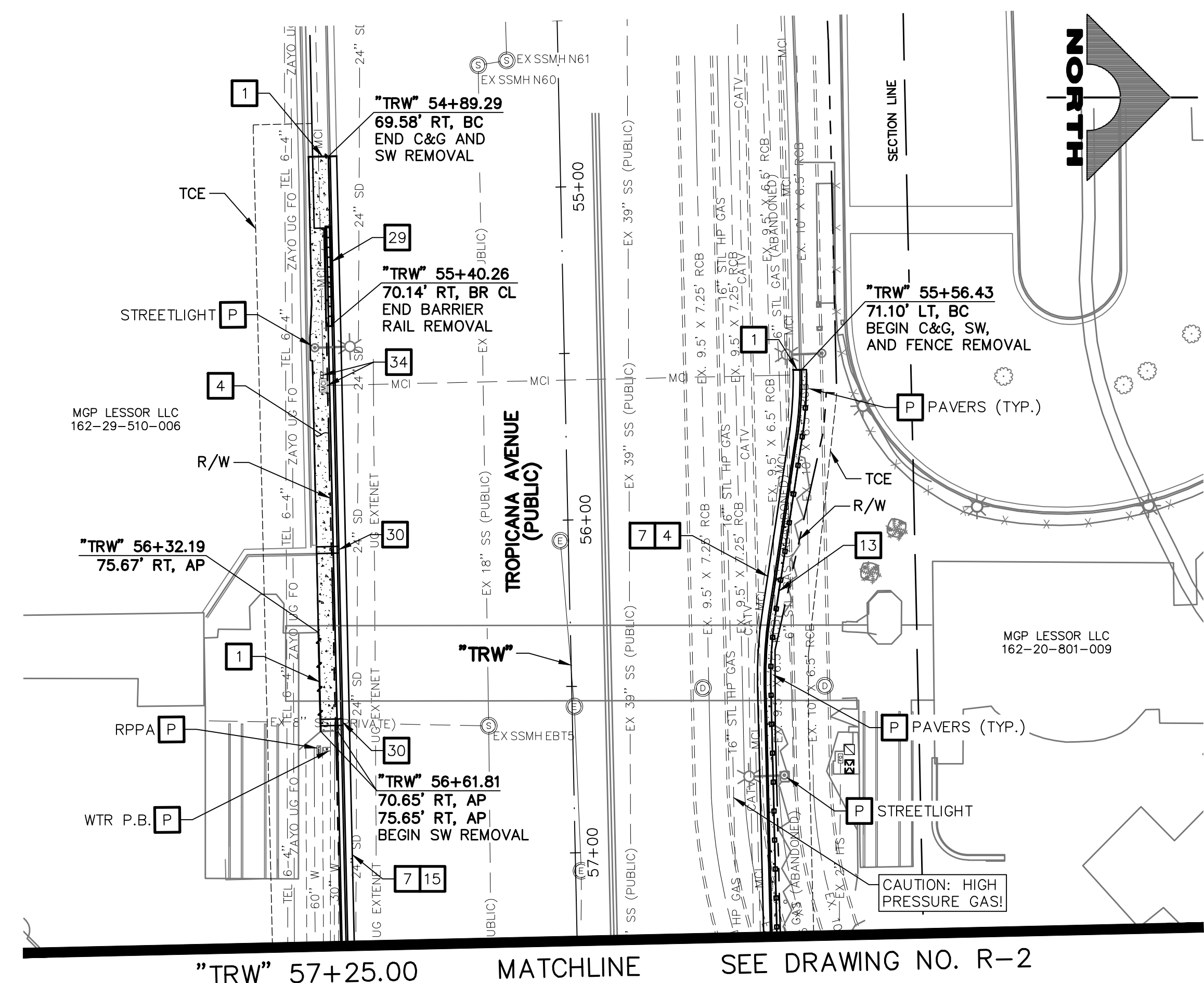
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: **GCV**  
ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

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

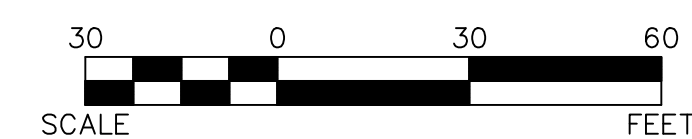
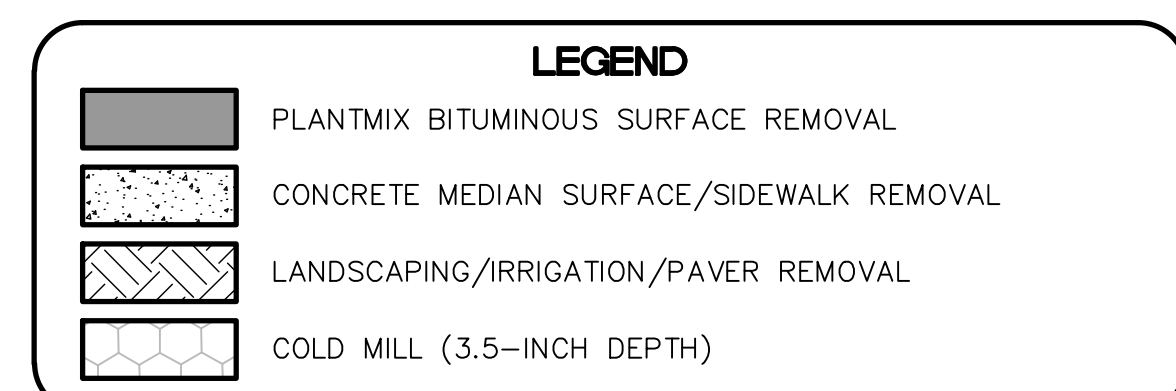
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BID NO.: 605976-21





- REMOVAL NOTES**
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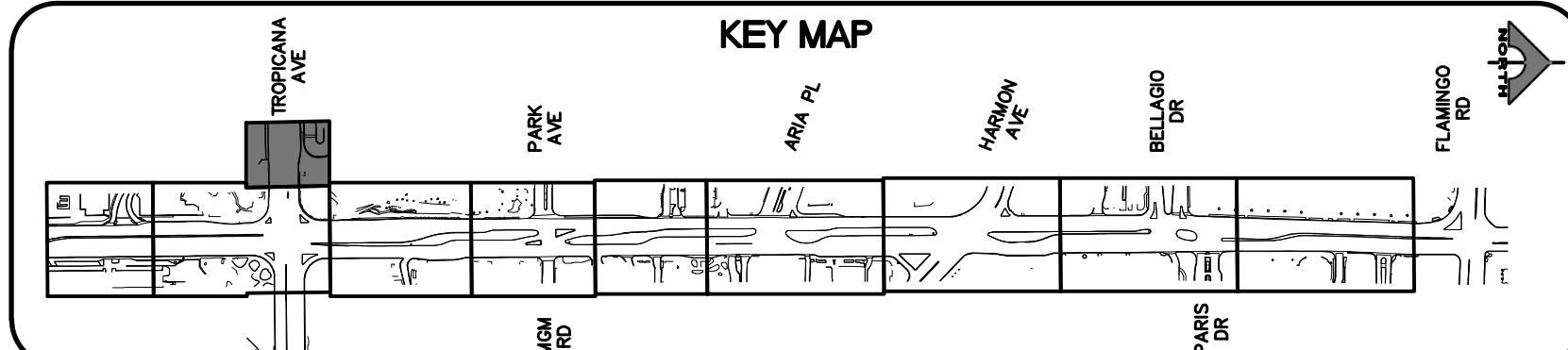


**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
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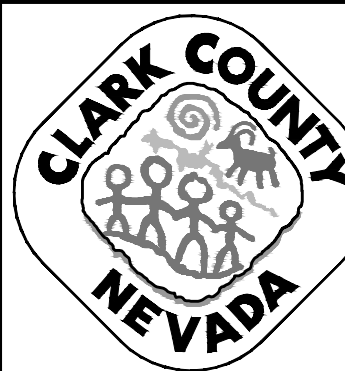


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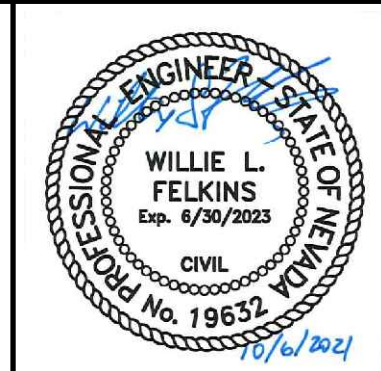
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED



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



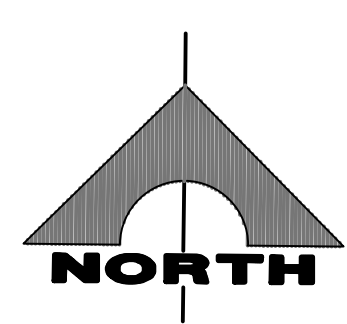
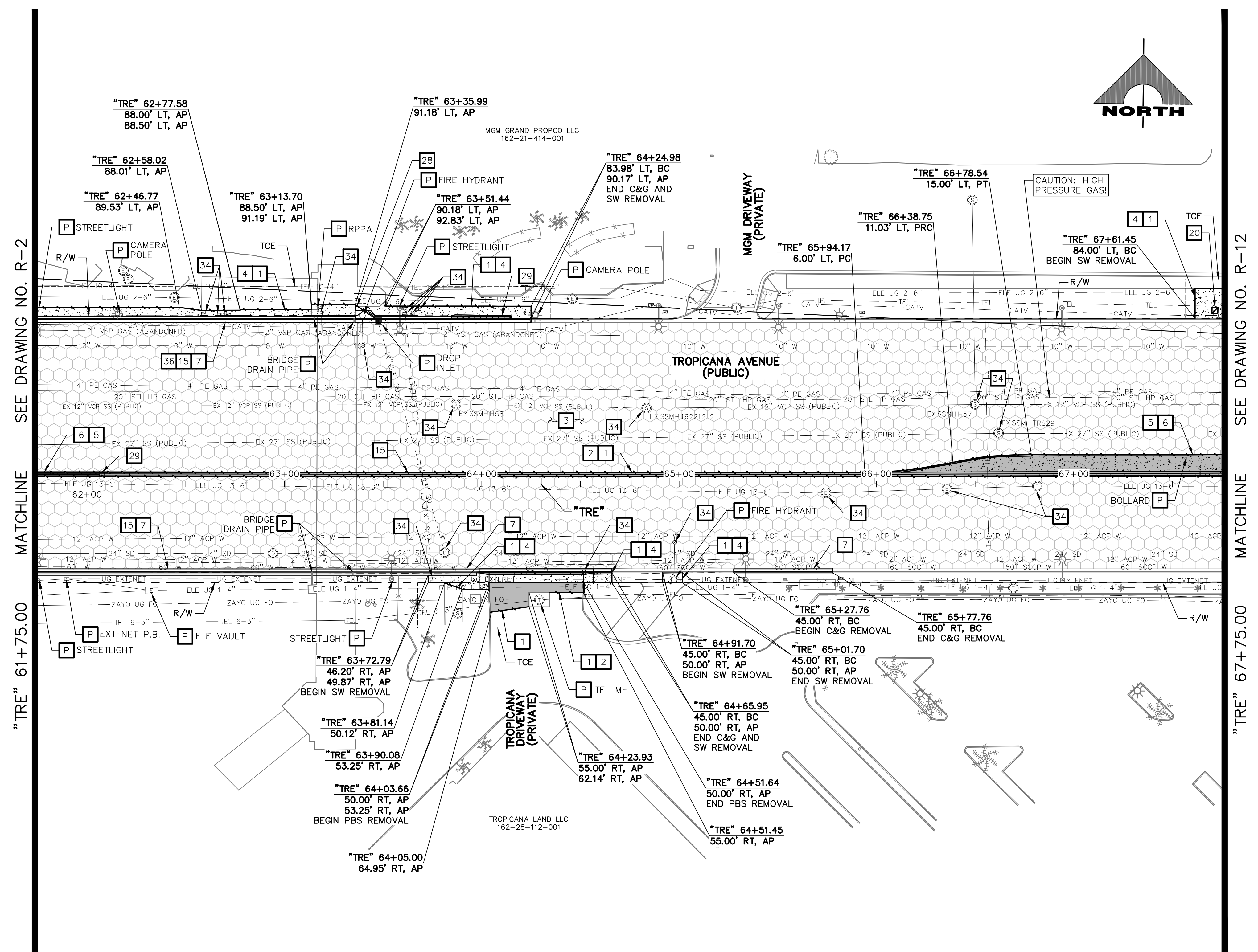
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
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SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

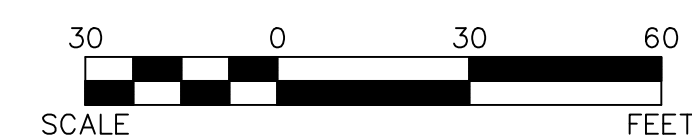
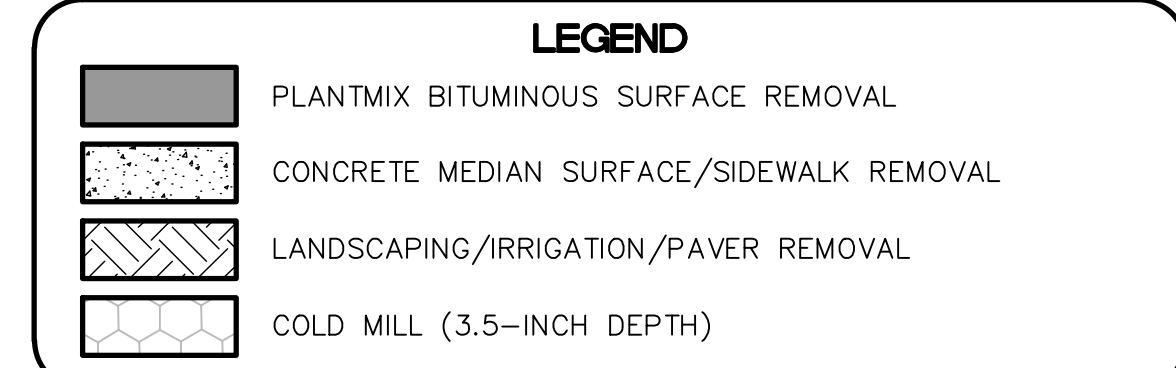
DRAWING NO. **R-10**  
SHT. 25 OF 169  
L-2304



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



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  - 32 REMOVE WALL BY CHIPPING DOWN TOP 12 INCHES (SEE DETAIL F, DWG. DT-7)
  - 33 REMOVE AND RESET BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - 34 ADJUST/RELOCATE/REMOVE UTILITY MANHOLE, VALVE, VAULT, OR PULLBOX (SEE U-DRAWINGS)
  - 35 WATER APPURTENANCES TO BE REMOVED BY LVVWD CONTRACT NO. C1497 PLANS
  - 36 REMOVE ELEVATOR TELEPHONE LINE CONDUCTORS FROM BARRIER RAIL FROM/TO NEAREST SPLICE BOXES
  - P PROTECT-IN-PLACE



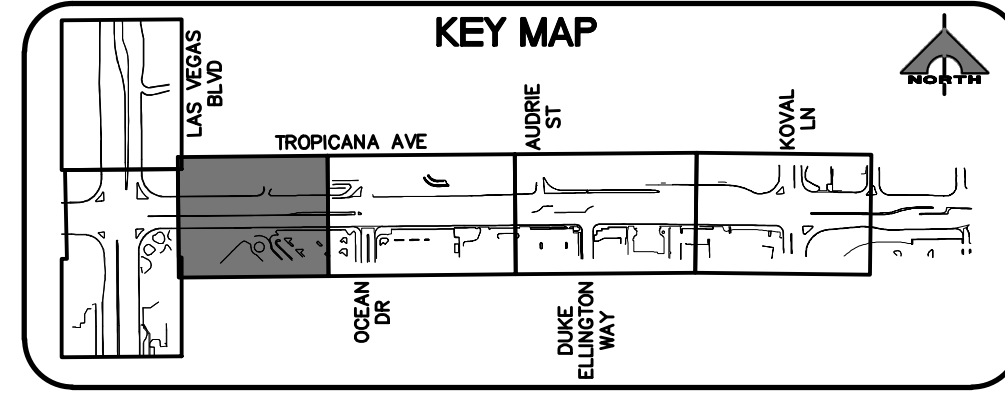
**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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

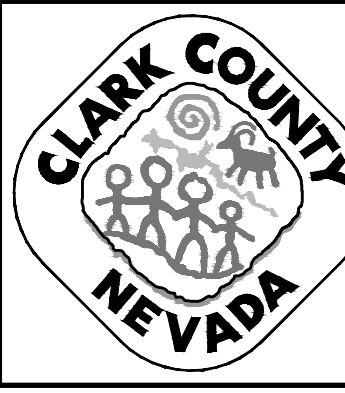
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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

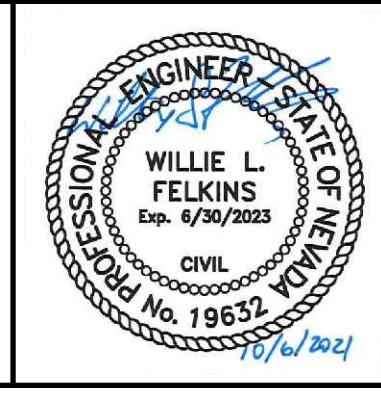
**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_



REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

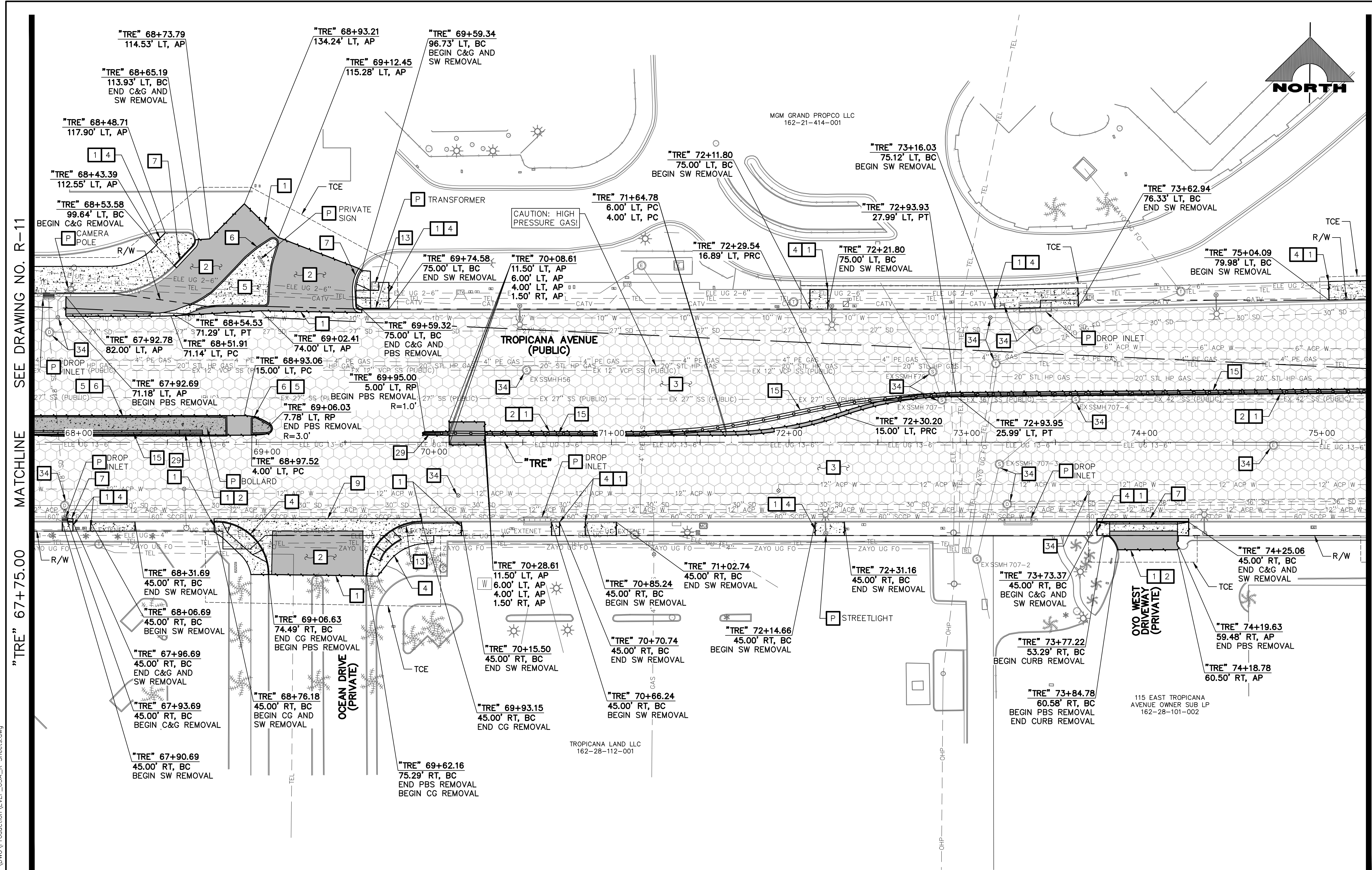
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

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

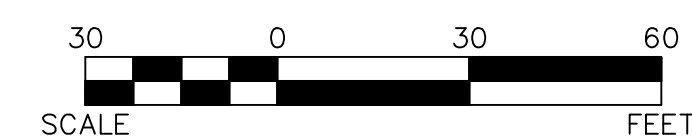
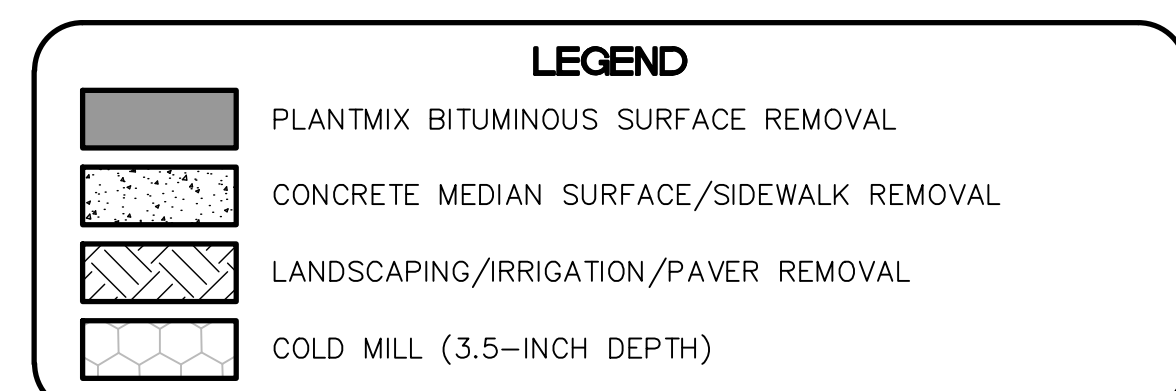
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BID NO.: 603976-21





- ### REMOVAL NOTES
- 1 SAWCUT AND MATCH EXISTING
  - 2 REMOVE PLANTMIX BITUMINOUS SURFACE
  - 3 COLD MILL (3.5-INCH DEPTH)
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- P PROTECT-IN-PLACE



SEE DRAWING NO. R-11 MATCHLINE

MATCHLINE SEE DRAWING NO. R-13

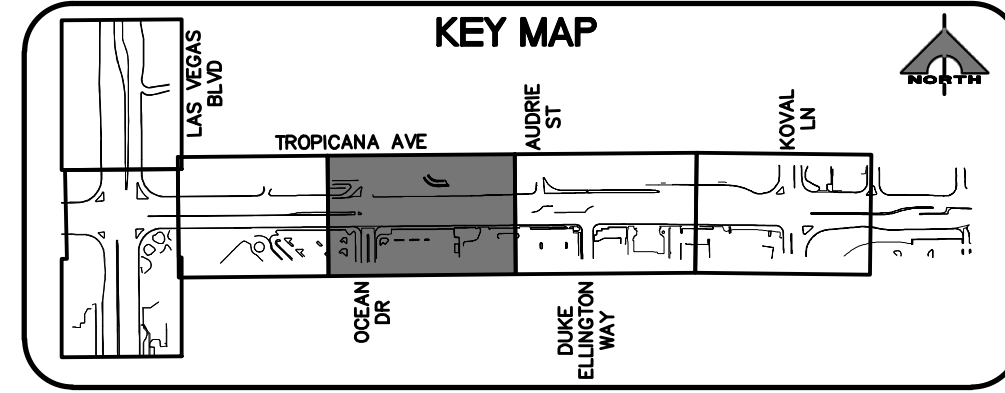
**CAUTION: HIGH PRESSURE GAS!!!**  
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**SOUTHWEST GAS VALVE NOTE**  
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**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

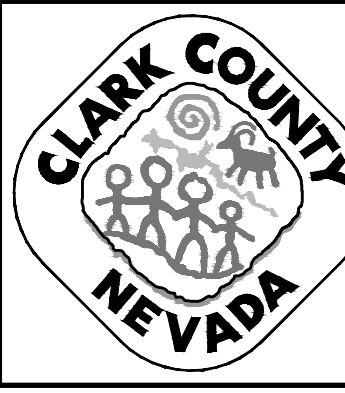


**CALL BEFORE YOU DIG OVERHEAD**  
1-702-227-2929

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

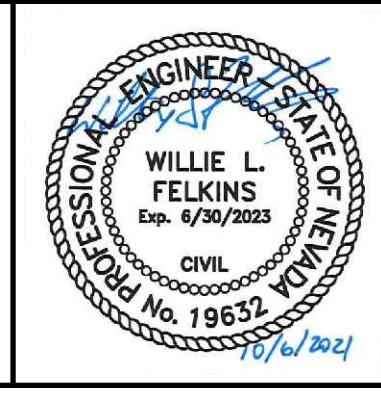


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### REMOVAL PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



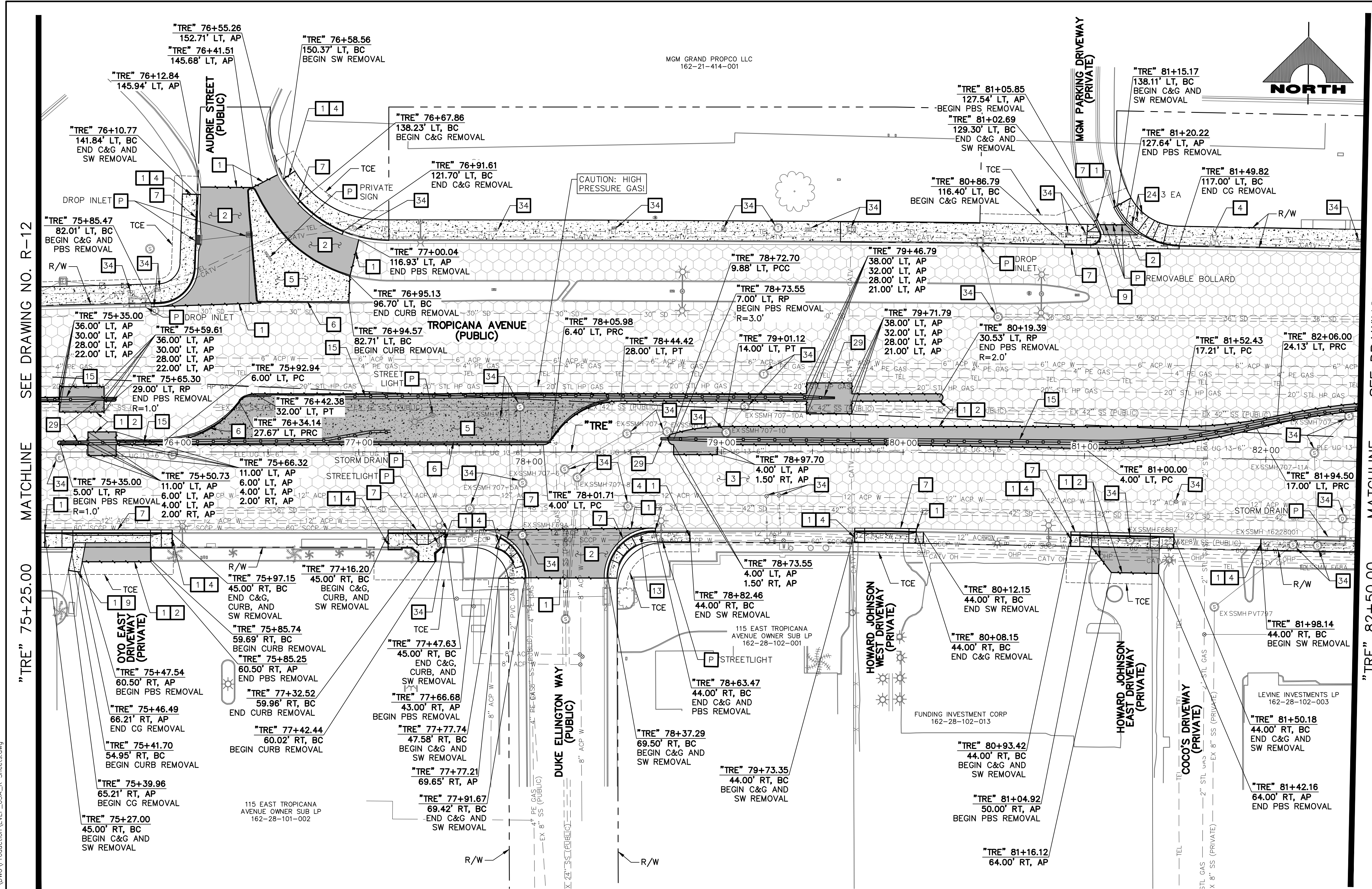
PROJECT No: 500-897-LV-EF DRAWN BY: JAP  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
DRAWING NO. **R-12**  
SHT. 27 OF 169  
L-2304

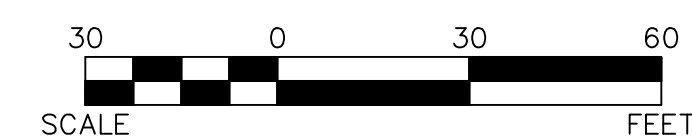
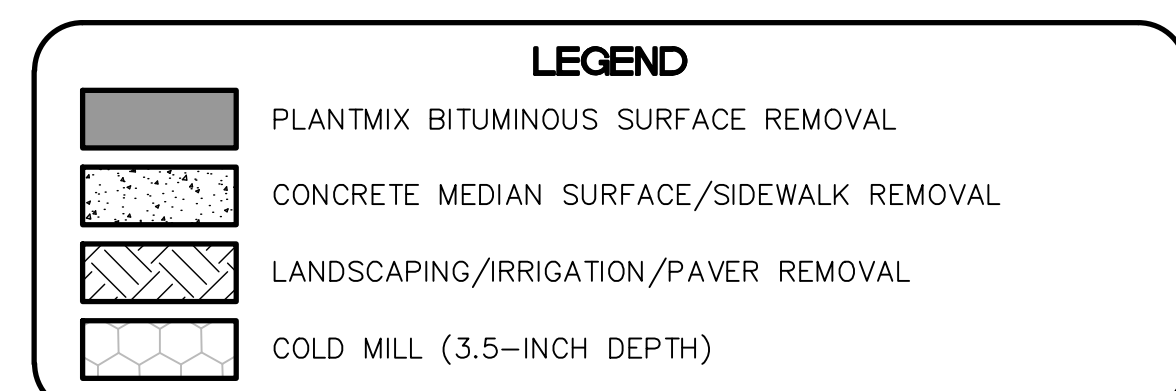
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





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- 1 SAWCUT AND MATCH EXISTING
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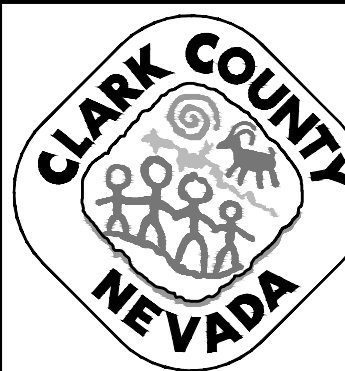
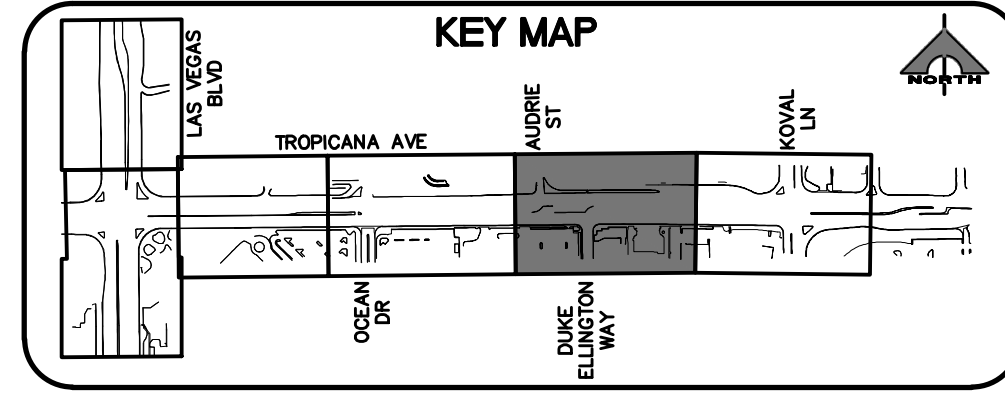
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CLARK COUNTY WATER RECLAMATION DISTRICT  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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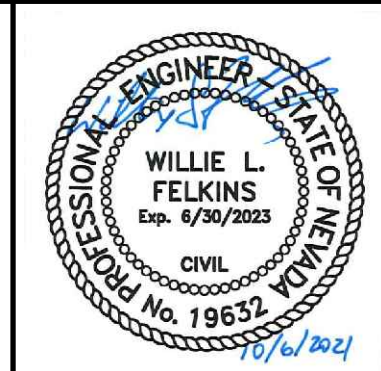


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### REMOVAL PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: JAP  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
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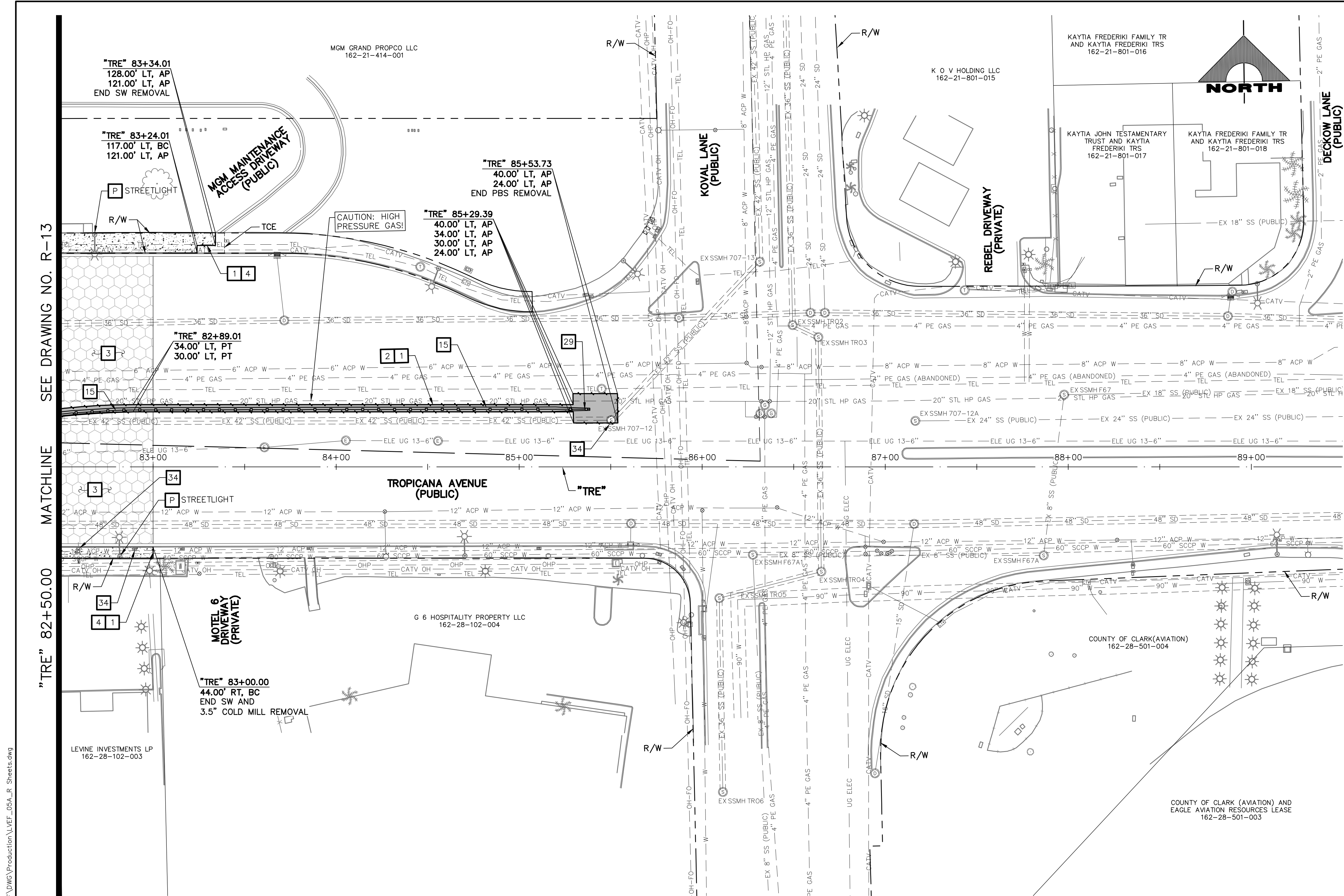
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DRAWING NO. **R-13**  
SHT. 28 OF 169  
L-2304

REV. NO.	DATE	DESCRIPTION	APPROVED

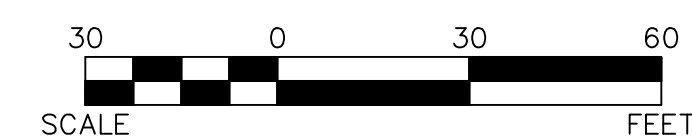
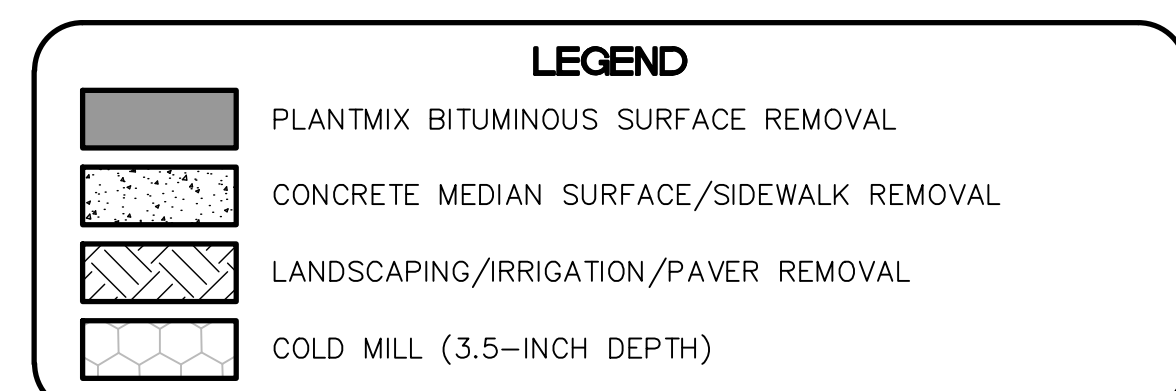
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





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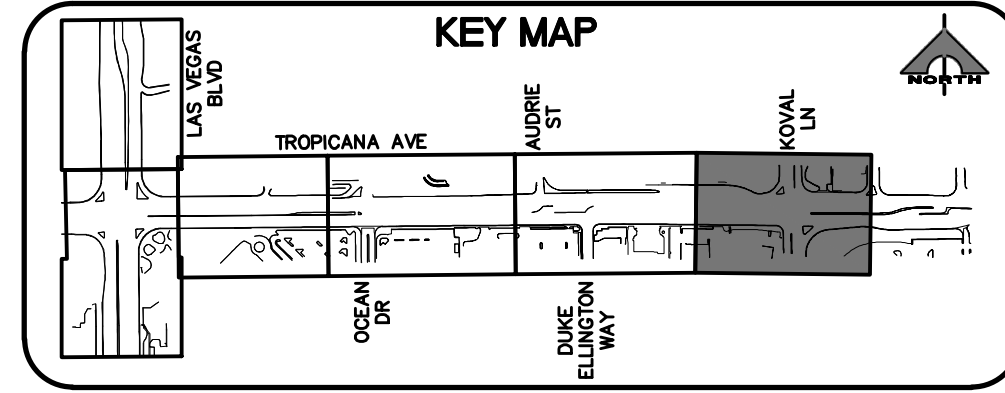
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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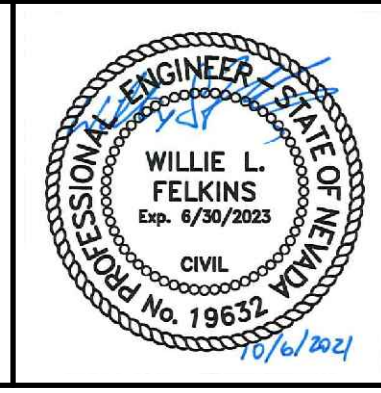


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### REMOVAL PLAN

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

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



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

**GCV** ENGINEERS \ SURVEYORS  
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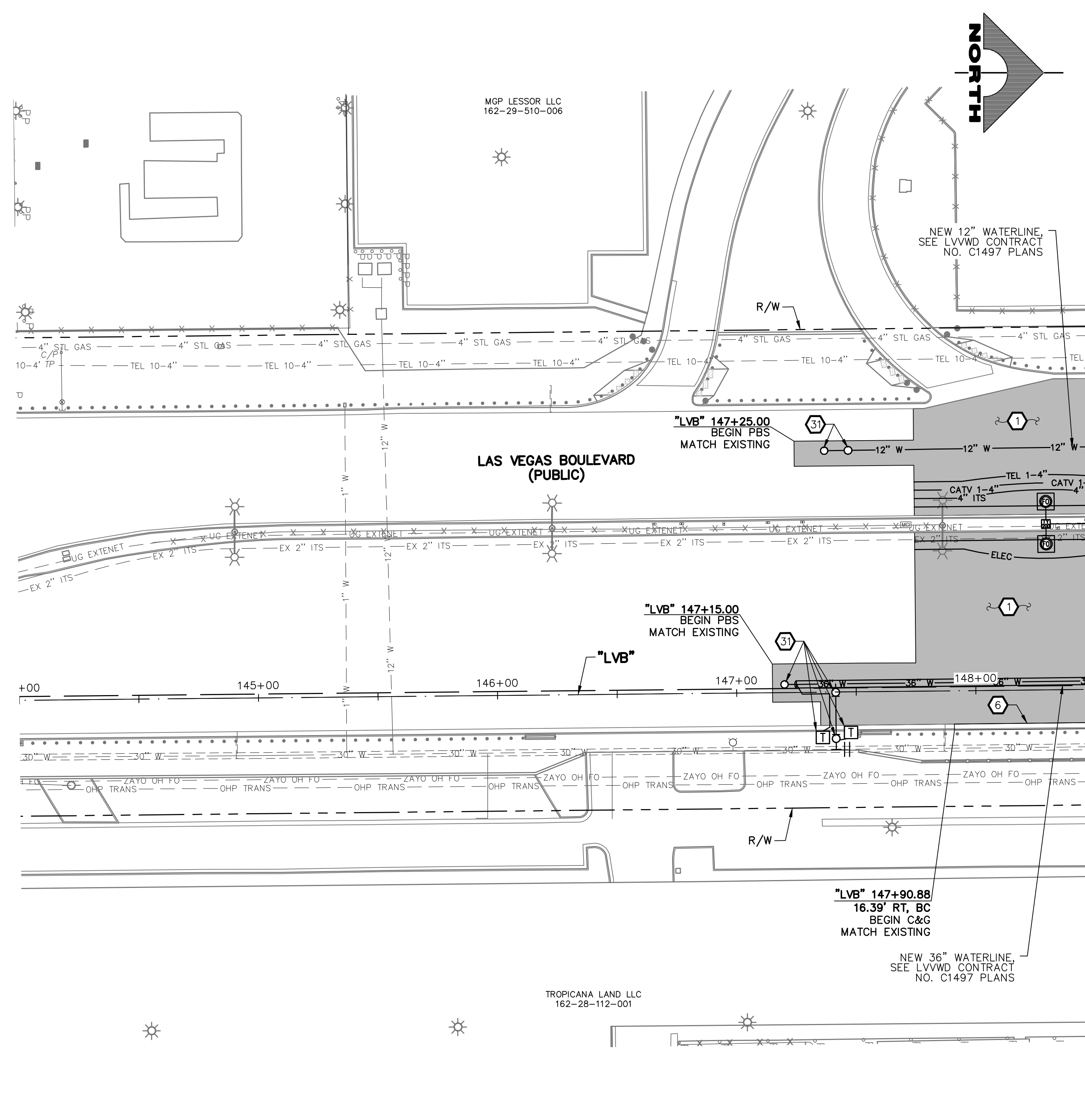
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FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21



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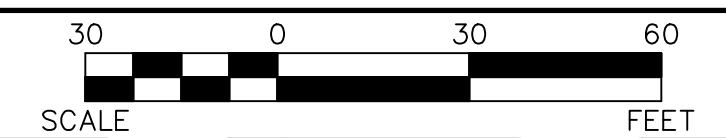


SEE DRAWING NO. C-2  
MATCHLINE  
"LVB" 148+50.00

- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
  - RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
  - CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
  - CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
  - CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
  - CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
  - CONSTRUCT CONCRETE BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
  - CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS A-E, DWG. DT-7)
  - CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
  - MODIFY LANDSCAPING/IRRIGATION
  - CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
  - INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
  - RESET CHAIN-LINK FENCE
  - CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
  - CONSTRUCT CONCRETE RETAINING WALL (SEE DETAIL A, DWG. S-2)
  - INSTALL IMPACT ATTENUATOR (24-INCH WIDE) ON CONCRETE FOUNDATION (V=55 MPH) (SC100GM BY SMITH & HILL, INC. OR APPROVED EQUAL)
  - INSTALL FIRE HYDRANT ACCESS GATE (SEE DETAIL A, DWG. DT-11)
  - CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER (SEE DETAIL A, DWG. DT-7)
  - CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
  - CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
  - SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - PROTECT-IN-PLACE
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

### LEGEND

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

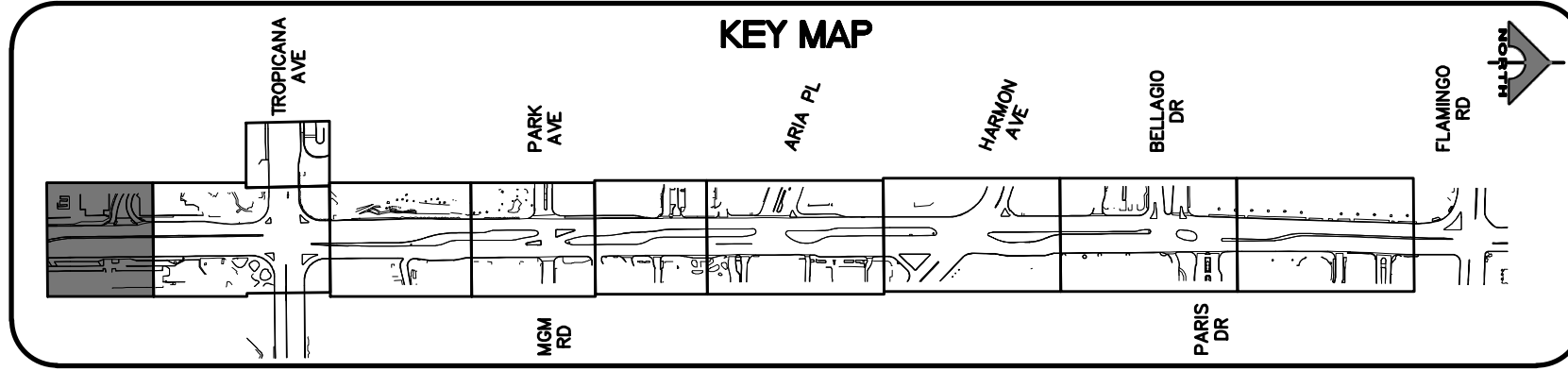


PROTECT IN PLACE AND ADJUST ALL LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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



**CALL BEFORE YOU DIG OVERHEAD**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

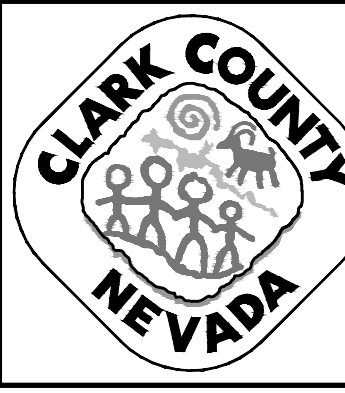
Avoid cutting underground utility lines. It's costly.

**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

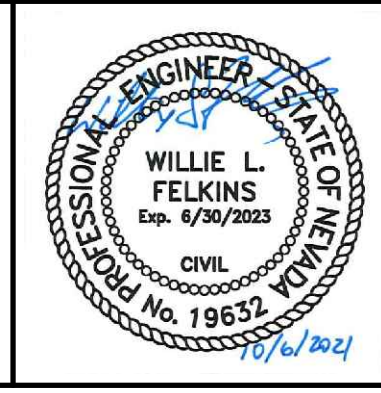


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



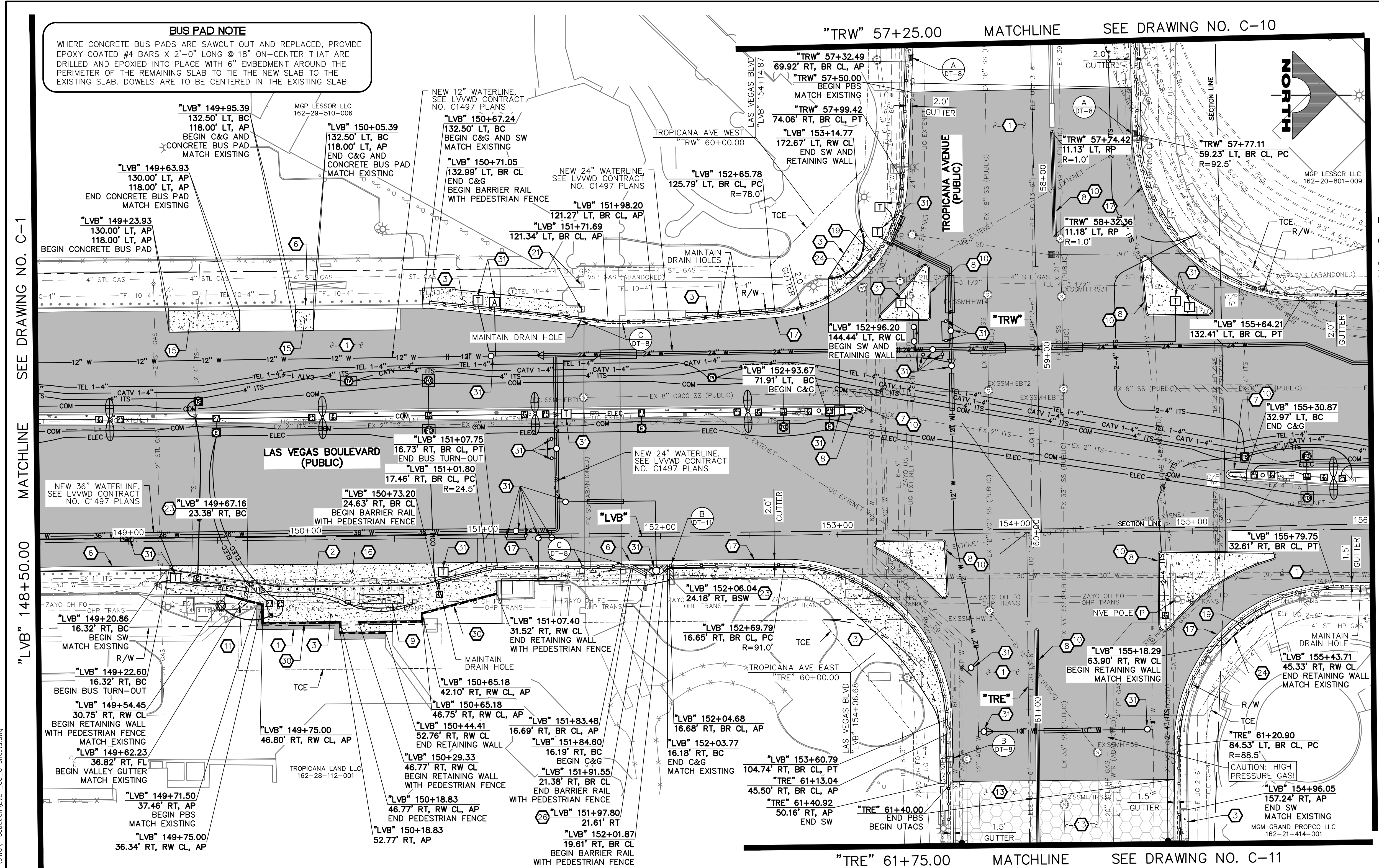
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

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

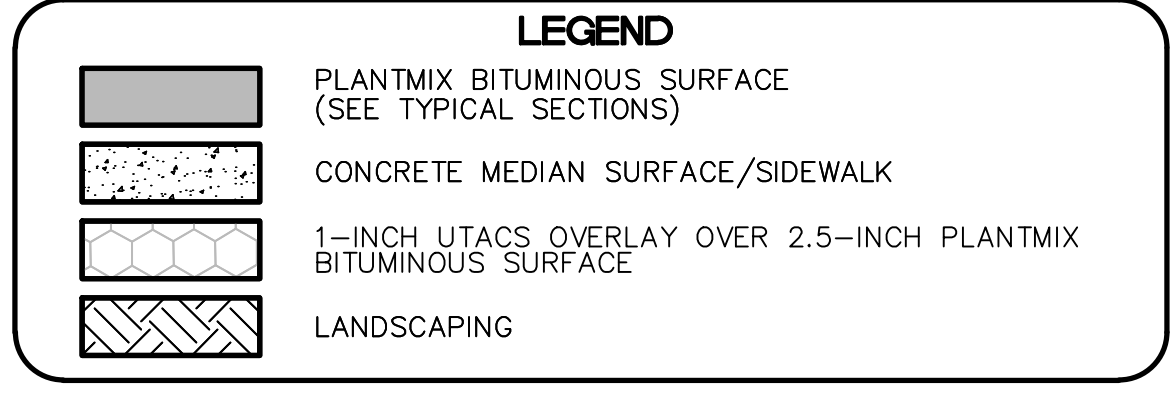
SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-1
VERT: NONE	SHT. 30 OF 169
FIELD BOOK	L-2304

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





- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF # 1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5 (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234)
  - CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
  - RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  - CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
  - CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
  - CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
  - CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
  - CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
  - CONSTRUCT CONCRETE BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
  - CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS A-E, DWG. DT-7)
  - CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
  - MODIFY LANDSCAPING/IRRIGATION
  - CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
  - INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
  - RESET CHAIN-LINK FENCE
  - CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
  - CONSTRUCT CONCRETE RETAINING WALL (SEE DETAIL A, DWG. S-2)
  - INSTALL IMPACT ATTENUATOR (24-INCH WIDE) ON CONCRETE FOUNDATION (V=55 MPH) (SCI100GM BY SMITH & HILL, INC. OR APPROVED EQUAL)
  - INSTALL FIRE HYDRANT ACCESS GATE (SEE DETAIL A, DWG. DT-11)
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  - CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
  - CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
  - SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - PROTECT-IN-PLACE
- ### NOTES
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE U-DRAWINGS FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



### BUS PAD NOTE

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

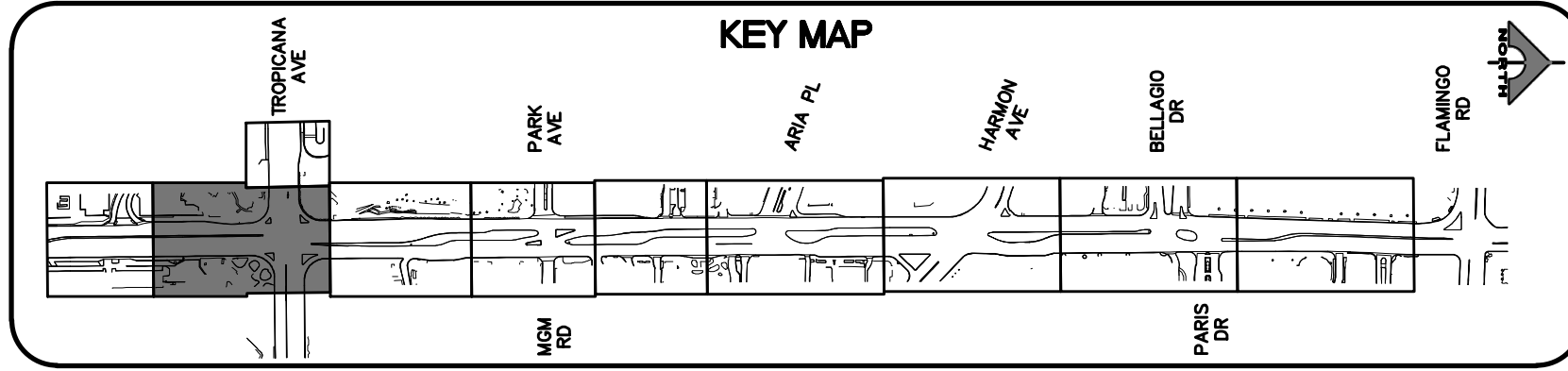
### CAUTION: HIGH PRESSURE GAS!!!

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

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

### CLARK COUNTY WATER RECLAMATION DISTRICT

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CCWRD PIPES NUMBER: 21.983  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



### SOUTHWEST GAS VALVE NOTE

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

### APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

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

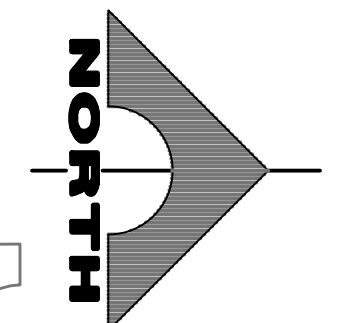
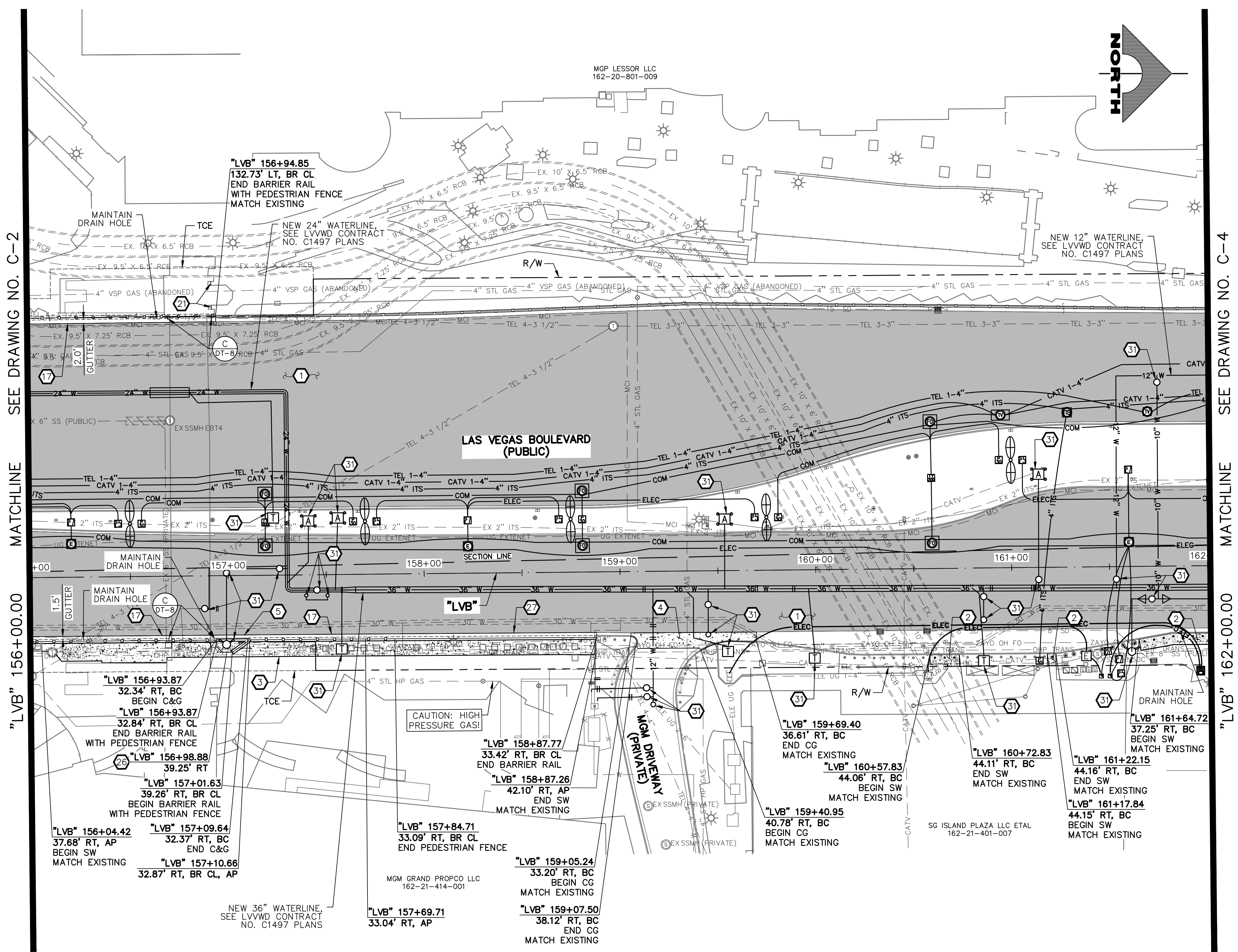
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DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	SHT. 31 OF 169
APPROVED BY: _____		VERT: NONE	L-2304
		1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gowengineering.com	FIELD BOOK

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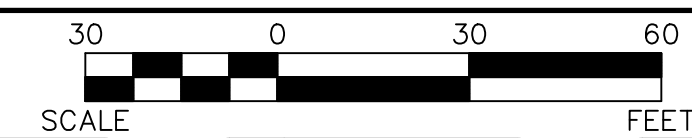
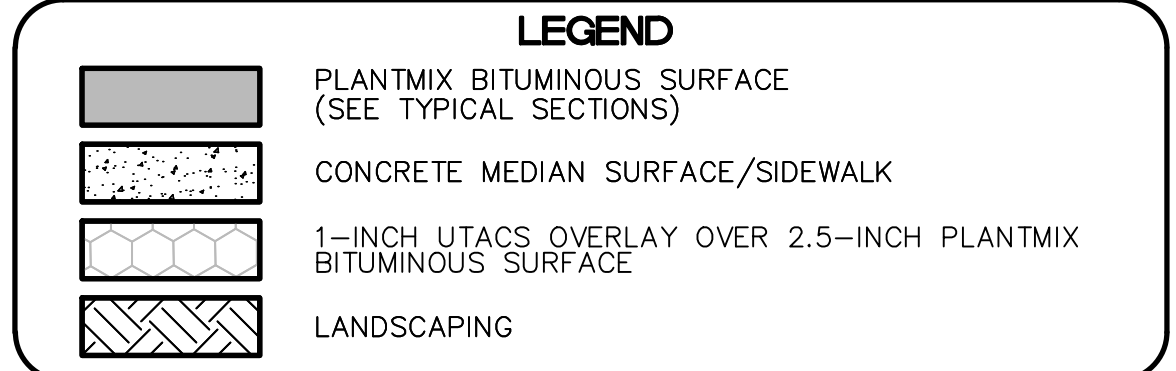
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



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



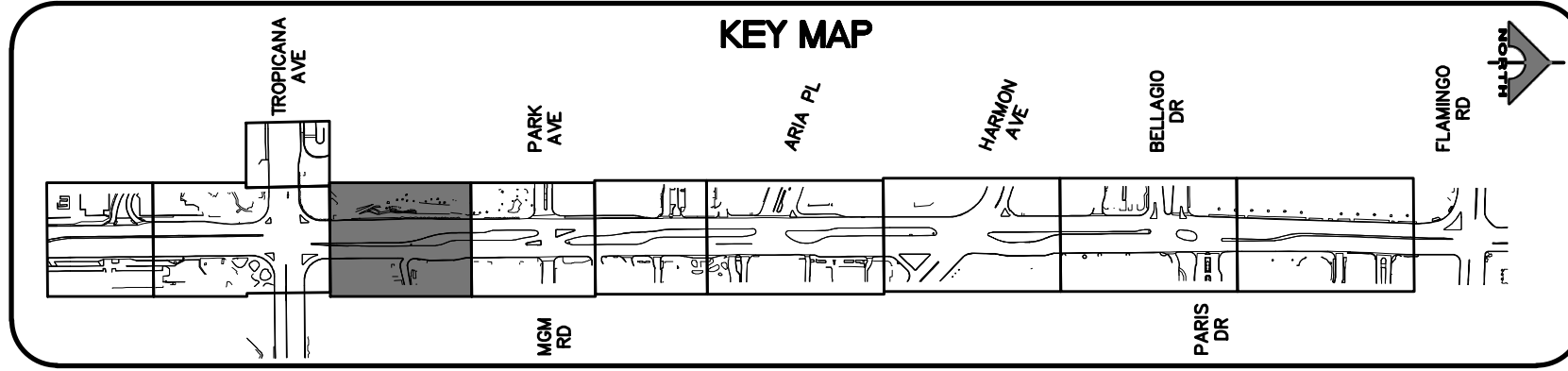
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  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
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  - CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
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  - PROTECT-IN-PLACE
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983



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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION PLAN**

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

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

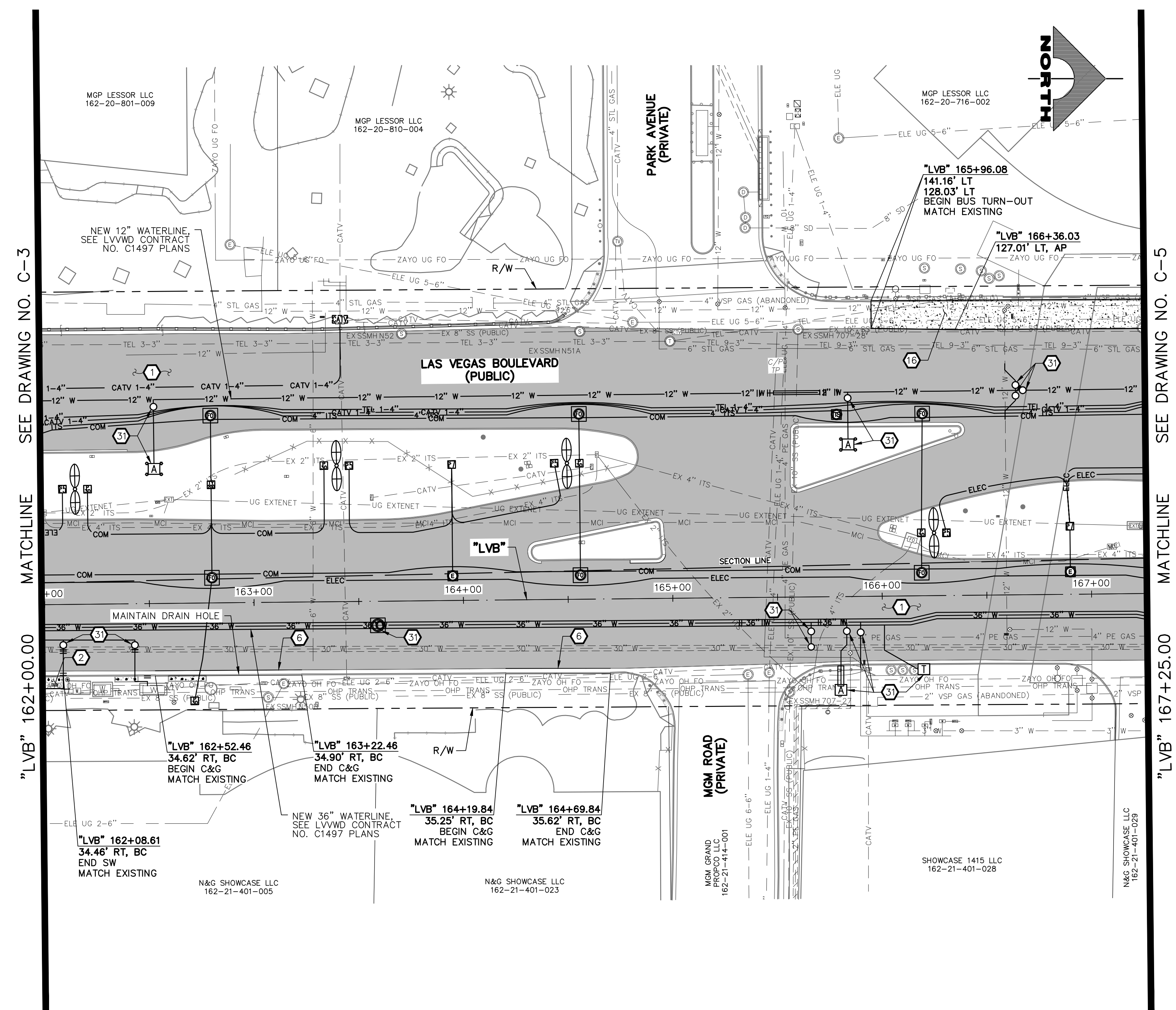
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DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	C-3
APPROVED BY: _____		VERT: NONE	SHT. 32 OF 169
		FIELD BOOK	L-2304

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

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MATCHLINE SEE DRAWING NO. C-3

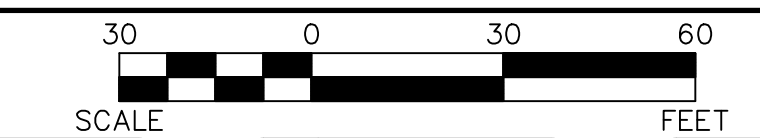
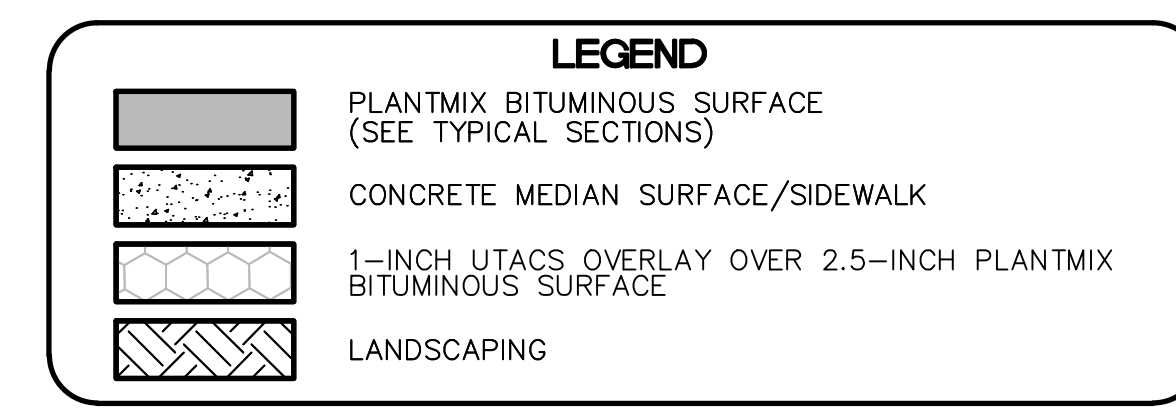
MATCHLINE SEE DRAWING NO. C-5

"LVB" 162+00.00

"LVB" 167+25.00

**CONSTRUCTION NOTES**

1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  2. CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
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  31. SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - P. PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  5. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



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

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

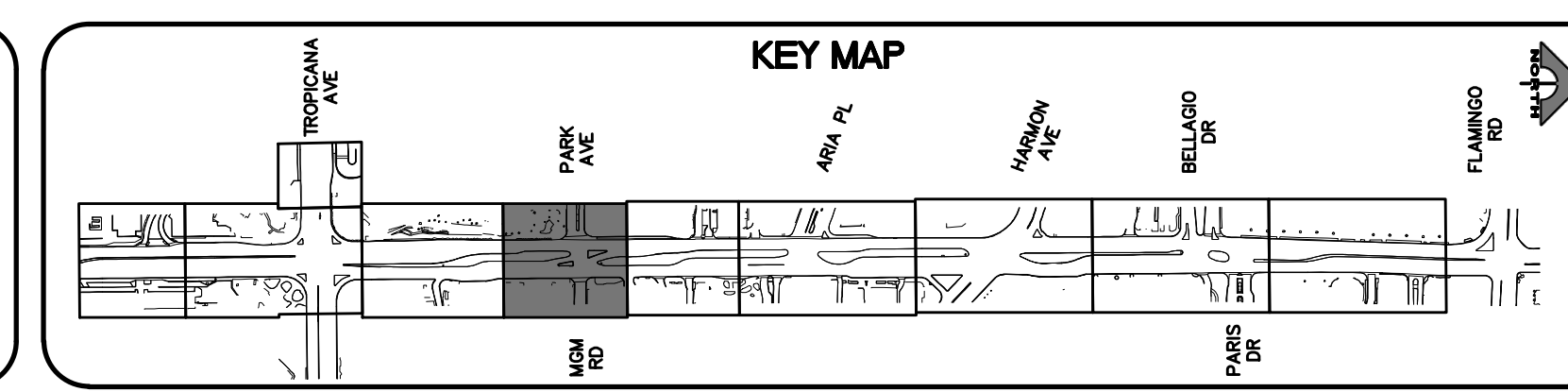
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

CCWRD PIPES NUMBER: **21.983**

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



**CALL BEFORE YOU DIG**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

Call before you Dig

Call 811

1-800-227-2600

**SOUTHWEST GAS VALVE NOTE**

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

REV. NO.	DATE	DESCRIPTION	APPROVED

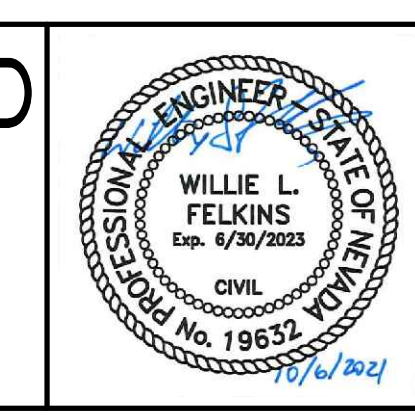
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION PLAN**

**"LVB" 162+00.00 TO "LVB" 167+25.00**

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



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

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS

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

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO. **C-4**

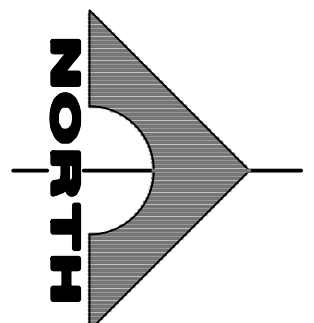
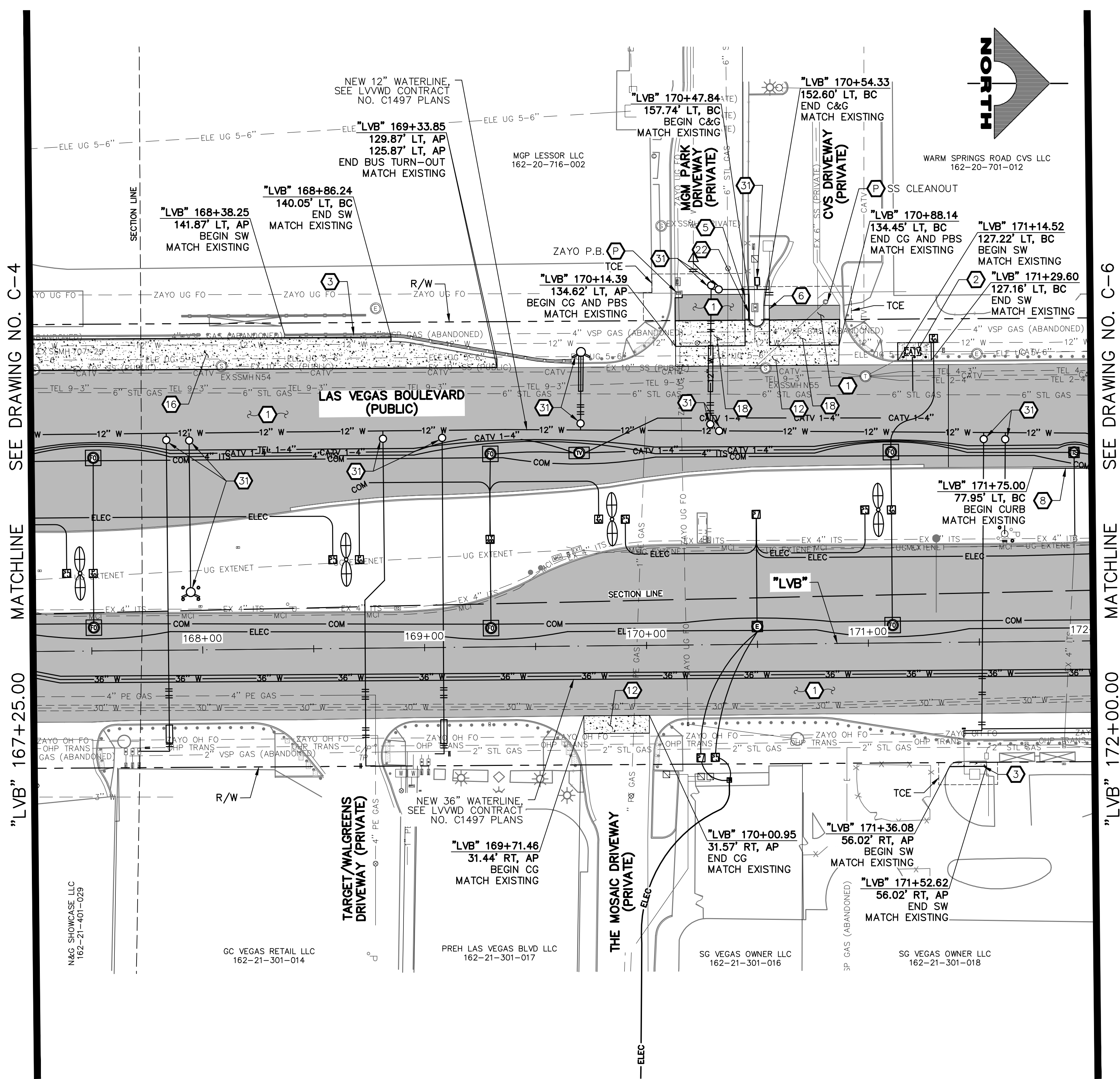
SHT. 33 OF 169

L-2304

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



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SEE DRAWING NO. C-4  
MATCHLINE

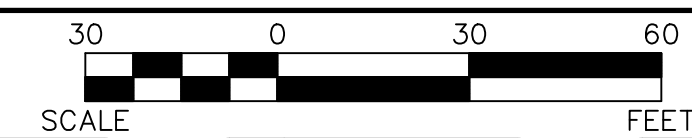
MATCHLINE  
SEE DRAWING NO. C-6

**CONSTRUCTION NOTES**

1. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  2. CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  3. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  4. CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
  5. CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  6. CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  7. CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  8. CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
  9. RESET SALVAGED BUS SHELTER, BENCHES, TRASH CANS, AND SIGN
  10. CONSTRUCT CONCRETE MEDIAN SURFACE (USDCCA STD. DWG. NO. 218)
  11. CONSTRUCT CONCRETE VALLEY GUTTER (SEE DETAIL F, DWG. DT-8)
  12. CONSTRUCT CONCRETE CROSS GUTTER WITH DOWELS (USDCCA STD. DWG. NO. 228)
  13. CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
  14. CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  15. CONSTRUCT CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
  16. CONSTRUCT CONCRETE BUS TURN-OUT (USDCCA STD. DWG. NO. 234.1)
  17. CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS A-E, DWG. DT-7)
  18. CONSTRUCT COMMERCIAL DRIVEWAY (USDCCA STD. DWG. NO. 224) (SEE DETAIL B, DWG. DT-10)
  19. MODIFY LANDSCAPING/IRRIGATION
  20. CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
  21. INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
  22. RESET CHAIN-LINK FENCE
  23. CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
  24. CONSTRUCT CONCRETE RETAINING WALL (SEE DETAIL A, DWG. S-2)
  25. INSTALL IMPACT ATTENUATOR (24-INCH WIDE) ON CONCRETE FOUNDATION (V=55 MPH) (SCI100GM BY SMITH & HILL, INC. OR APPROVED EQUAL)
  26. INSTALL FIRE HYDRANT ACCESS GATE (SEE DETAIL A, DWG. DT-11)
  27. CONSTRUCT SINGLE SLOPE CONCRETE BARRIER RAIL MODIFIED TYPE B WITH GUTTER (SEE DETAIL A, DWG. DT-7)
  28. CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  29. CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
  30. CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
  31. SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  32. PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  5. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

**LEGEND**

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



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

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

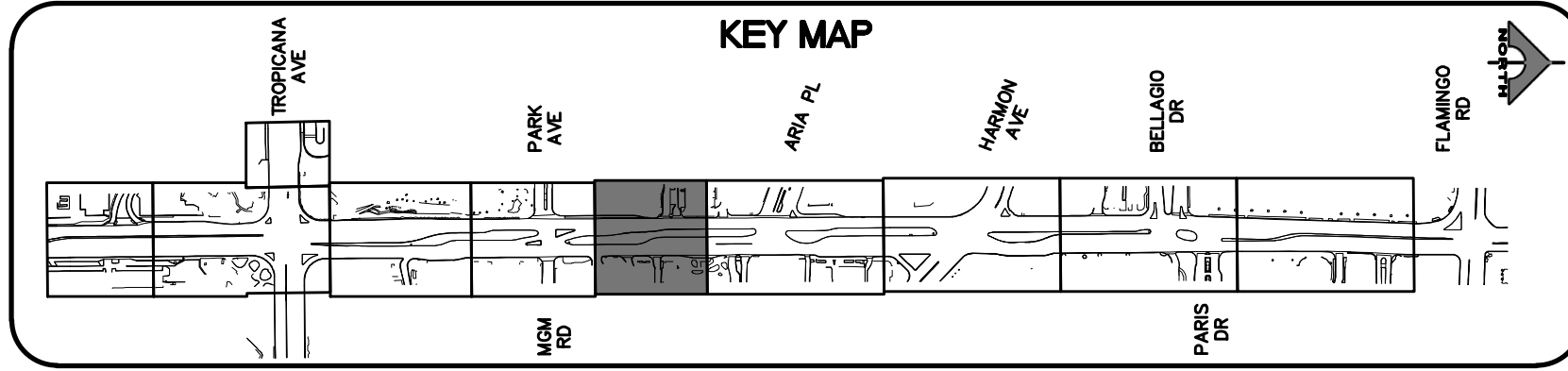
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

CCWRD PIPES NUMBER: **21.983**

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



**CALL BEFORE YOU DIG**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

Call before you Dig

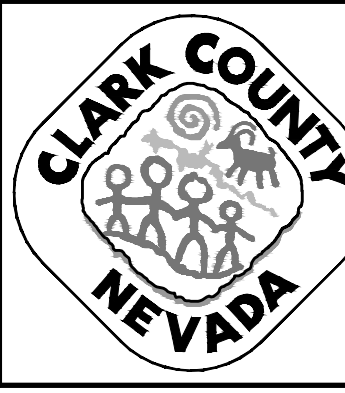
Call 811

1-800-227-2600

**SOUTHWEST GAS VALVE NOTE**

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

REV. NO.	DATE	DESCRIPTION	APPROVED

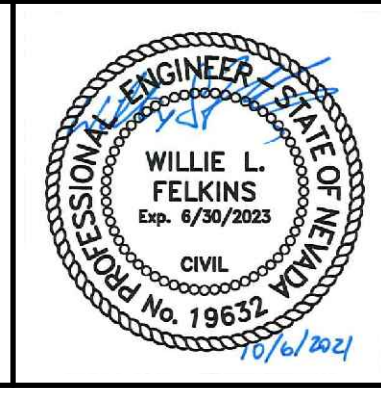


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION PLAN**

**"LVB" 167+25.00 TO "LVB" 172+00.00**

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



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

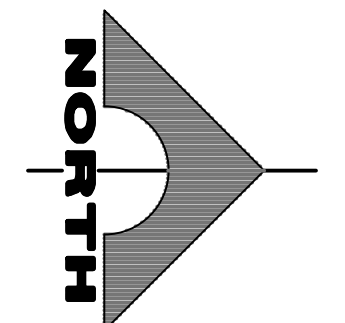
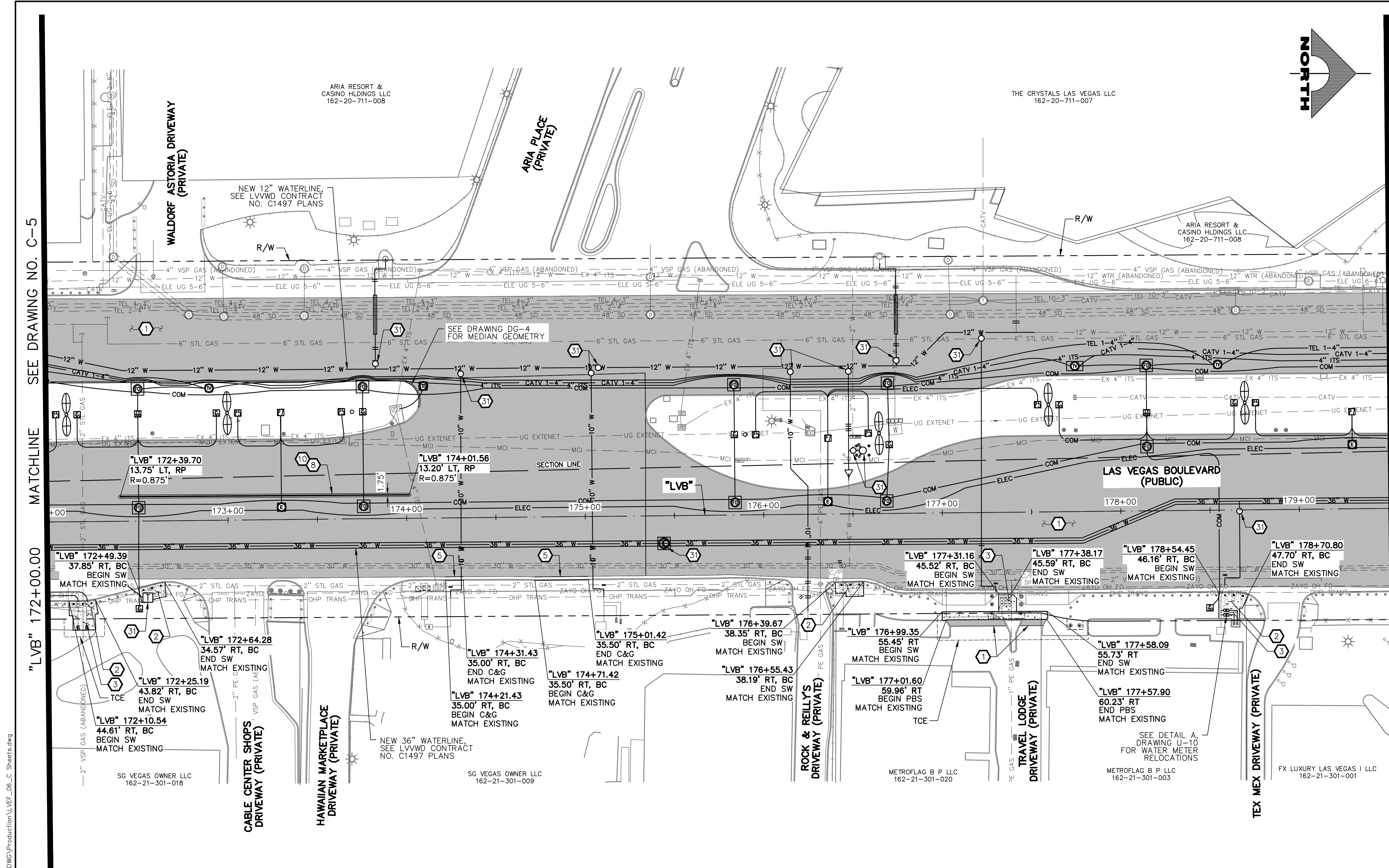
**GCV** ENGINEERS \ SURVEYORS

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-5
VERT: NONE	SHT. 34 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 608978-21

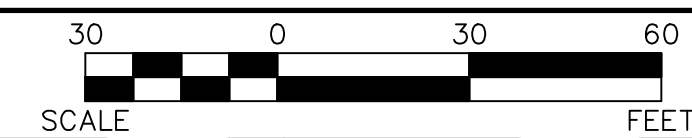




- ### CONSTRUCTION NOTES
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  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
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  - MODIFY LANDSCAPING/IRRIGATION
  - CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
  - INSTALL PEDESTRIAN CONTAINMENT FENCE BETWEEN PILLARS (SEE DETAIL A, DWG. DT-6)
  - RESET CHAIN-LINK FENCE
  - CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
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  - SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - PROTECT-IN-PLACE
- ### NOTES
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE U-DRAWINGS FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK

### LEGEND

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



SEE DRAWING NO. C-5  
MATCHLINE

SEE DRAWING NO. C-7  
MATCHLINE

"LVB" 172+00.00

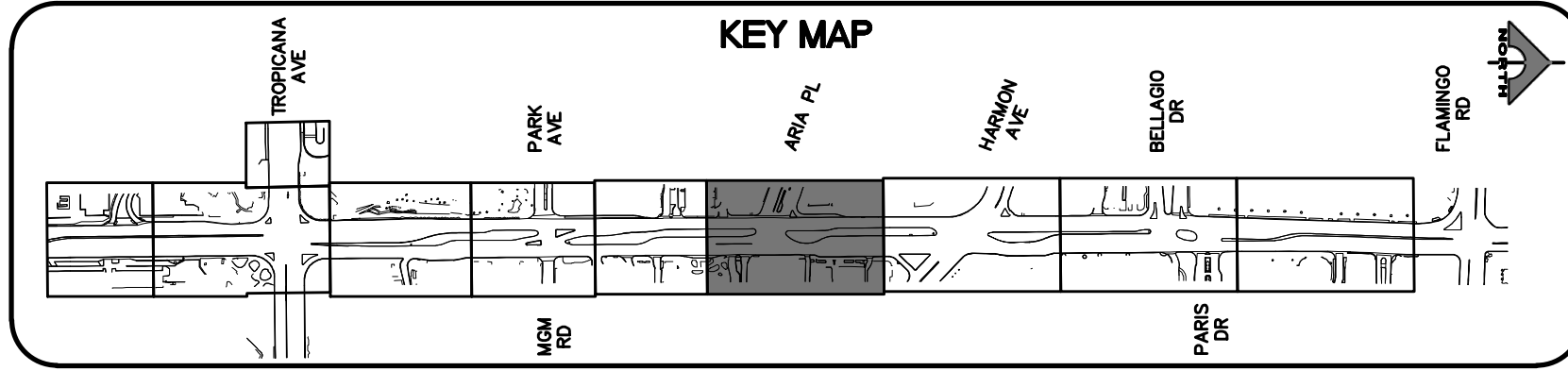
"LVB" 179+50.00

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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

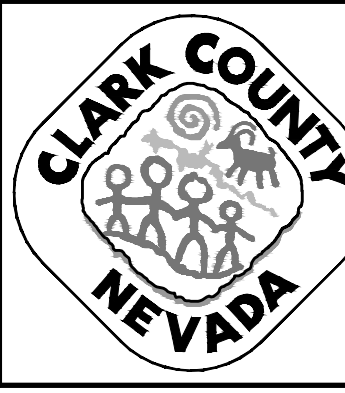


CALL BEFORE YOU DIG  
1-702-227-2929

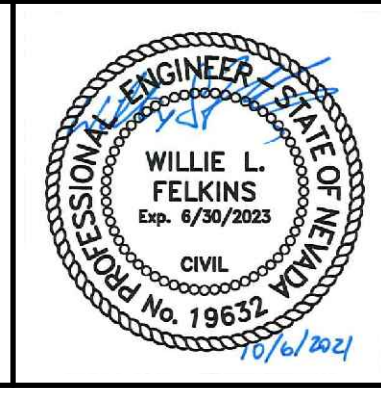
**FAST**  
Call before you UnderGround.  
1-702-432-5300

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

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**CONSTRUCTION PLAN**  
"LVB" 172+00.00 TO "LVB" 179+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



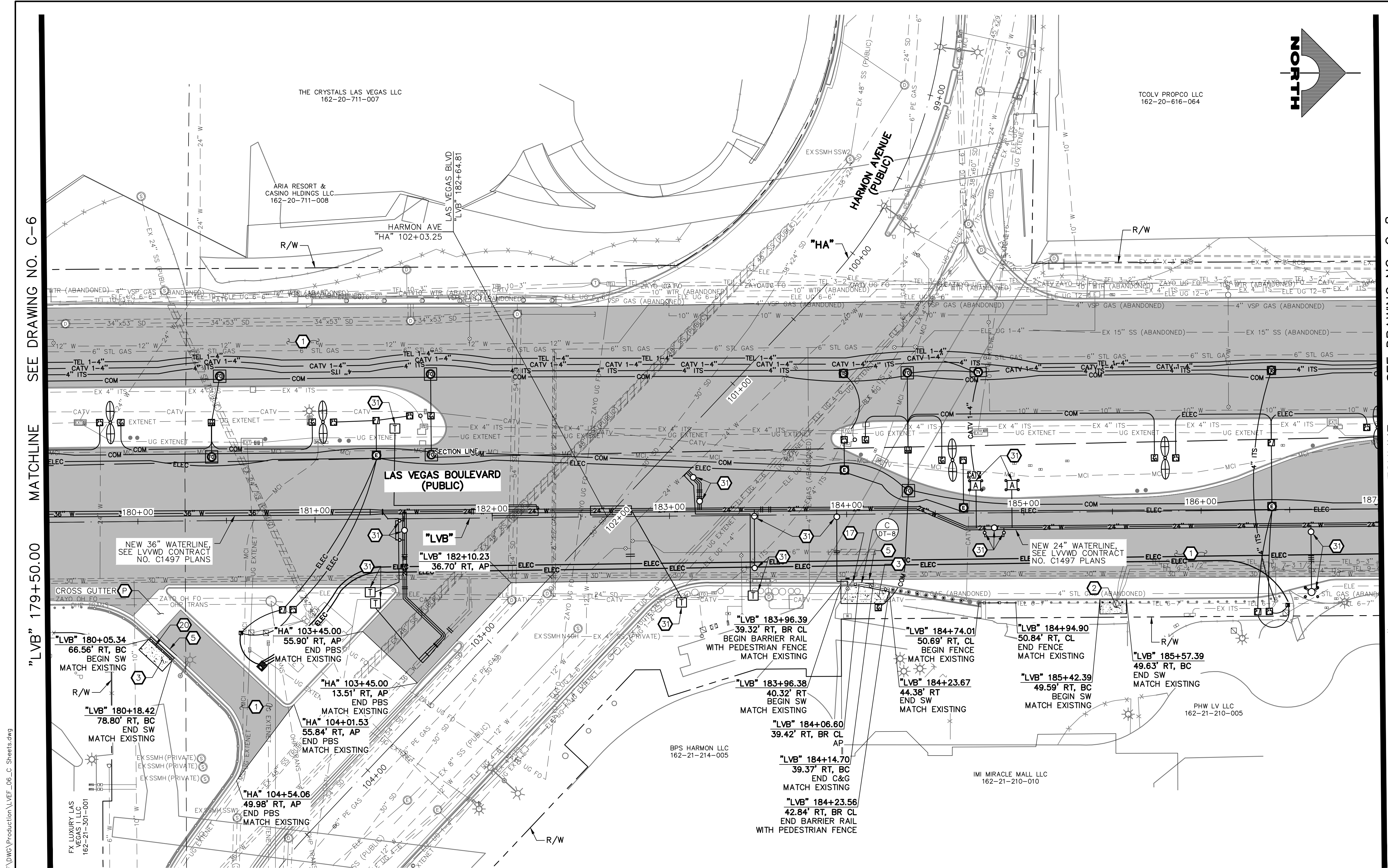
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-6
VERT: NONE	SHT. 35 OF 169
FIELD BOOK	L-2304

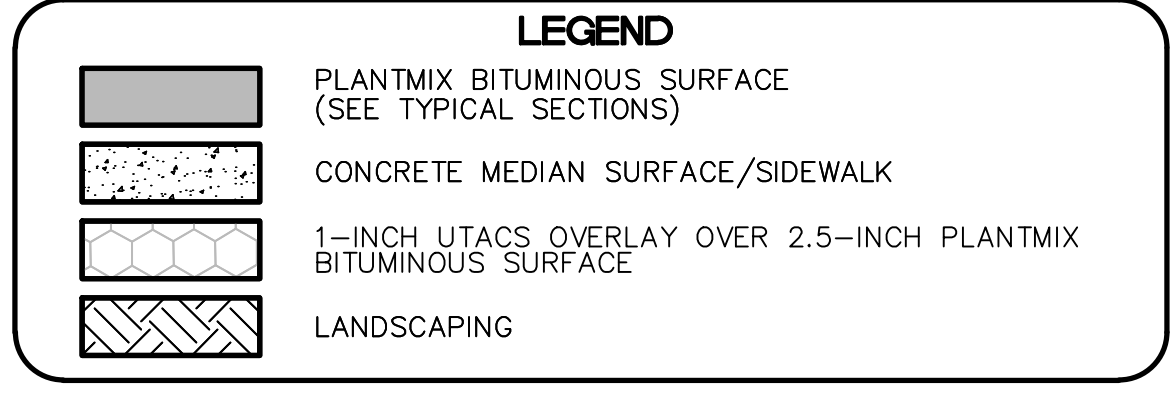
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
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  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
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  - PROTECT-IN-PLACE
- NOTES**
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  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



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

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

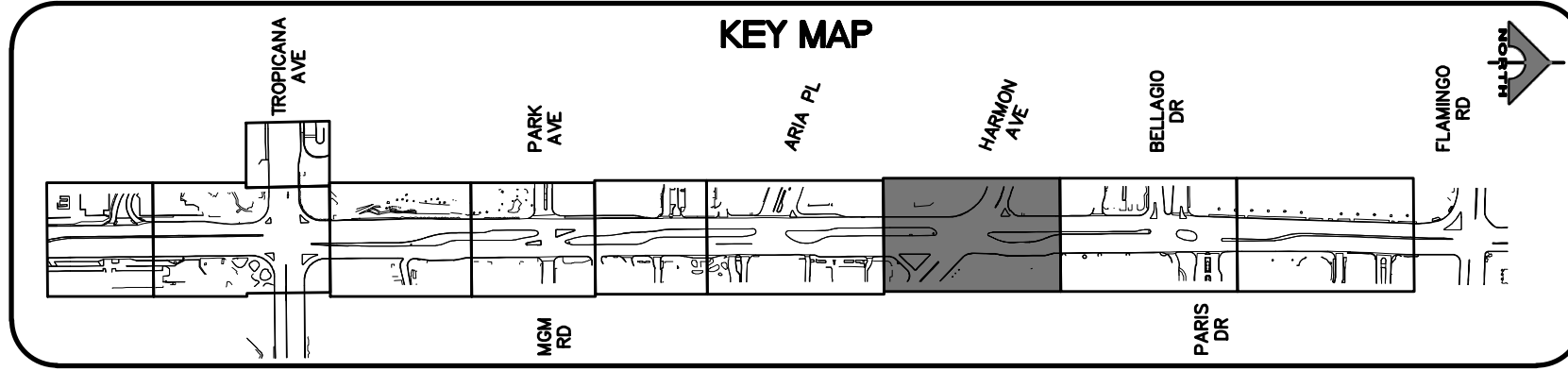
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21983**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

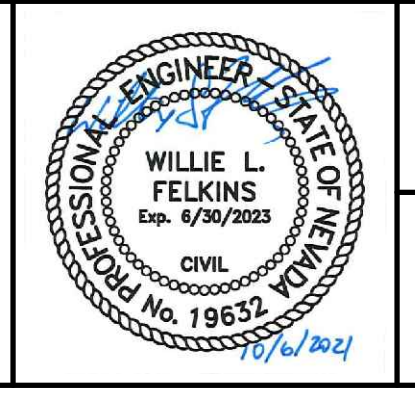
**CLARK COUNTY NEVADA**

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

**GCV**  
ENGINEERS \ SURVEYORS

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

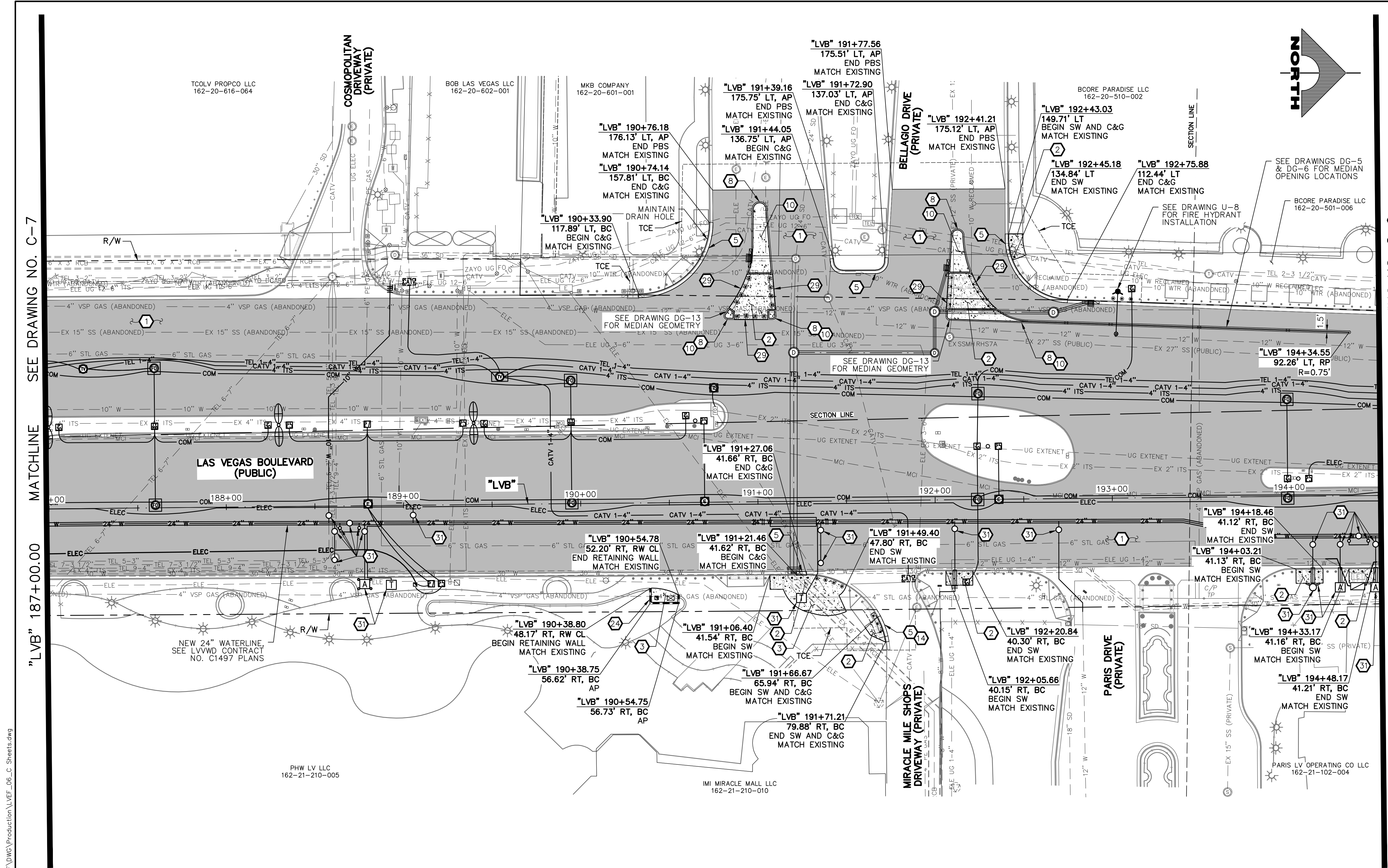
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FIELD BOOK

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

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5 (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
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  - CONSTRUCT 1-INCH UTACS OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE OVERLAY (SEE TY-DRAWINGS)
  - CONSTRUCT CASE II SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 6.5 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  - CONSTRUCT CONCRETE BUS PAD (PAID FOR AS BUS TURN-OUT) (SEE TY-DRAWINGS) (NDOT STD. DETAIL NO. CP-1)
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  - SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - PROTECT-IN-PLACE
- NOTES**
- SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  - SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
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### LEGEND

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



SEE DRAWING NO. C-7  
MATCHLINE

SEE DRAWING NO. C-9  
MATCHLINE

"LVB" 187+00.00

"LVB" 194+50.00

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

**APPROVED FOR CONSTRUCTION**

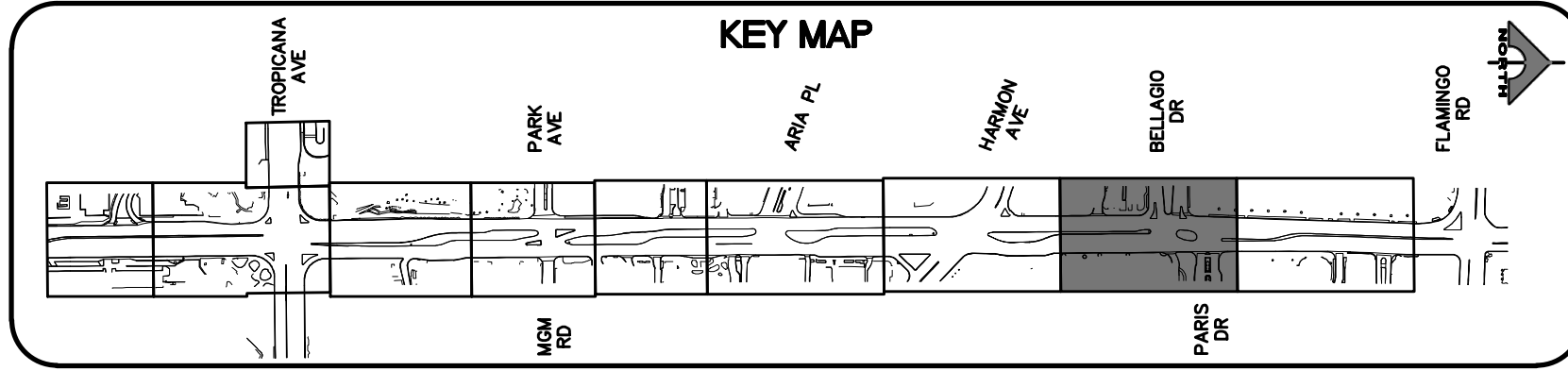
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

CCWRD PIPES NUMBER: **21.983**

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



**SOUTHWEST GAS VALVE NOTE**

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

REV. NO.	DATE	DESCRIPTION	APPROVED

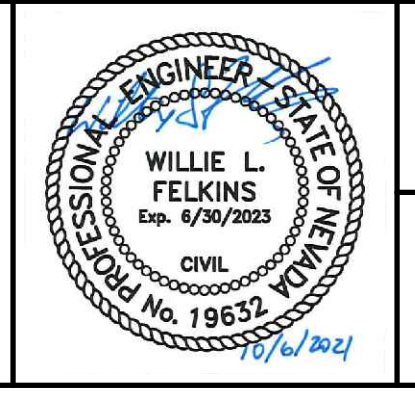


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION PLAN**

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

**GCV**  
ENGINEERS \ SURVEYORS

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

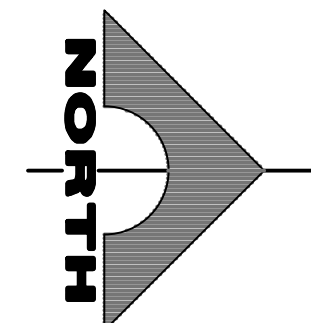
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HORIZ: AS SHOWN	C-8
VERT: NONE	SHT. 37 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



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

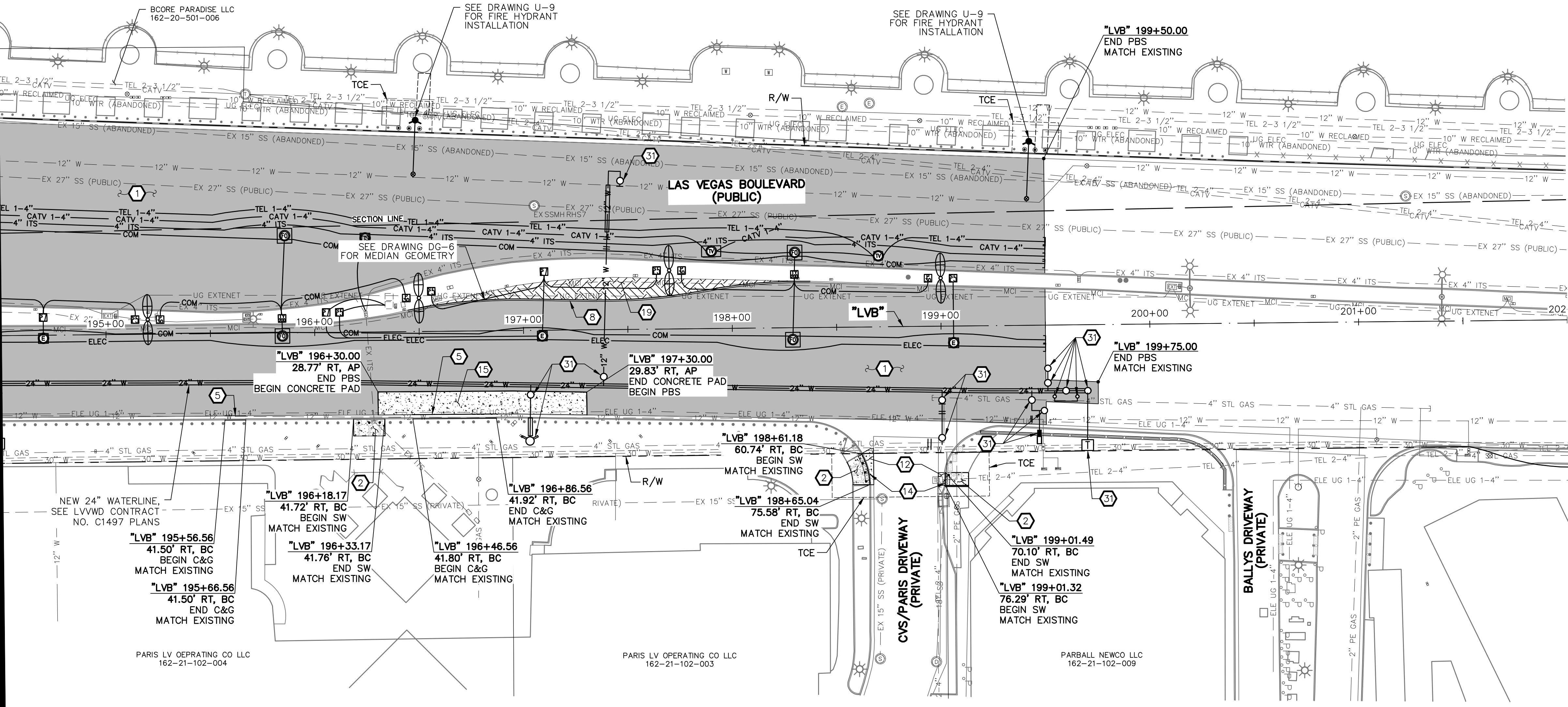


BCORE PARADISE LLC  
162-20-510-002

SEE DRAWING NO. C-8

MATCHLINE

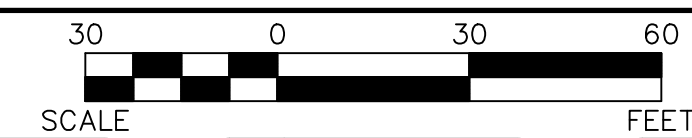
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- PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
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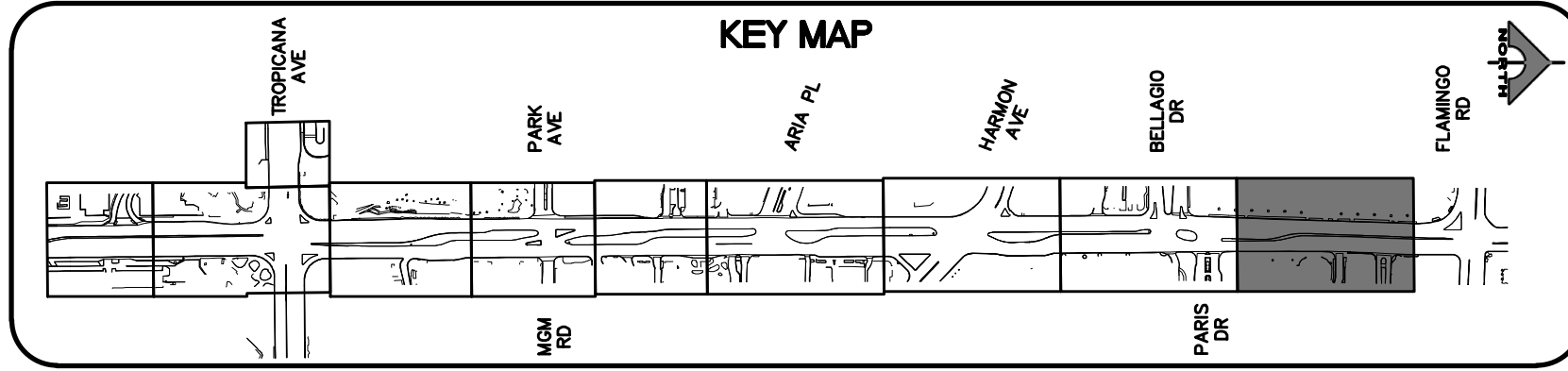


PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
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**CALL BEFORE YOU DIG OVERHEAD**  
1-702-227-2929

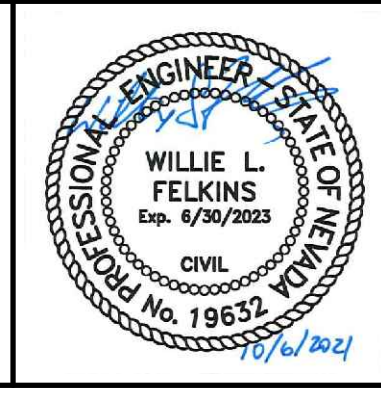
**FAST**  
Call before you UnderGround.  
1-702-432-5300

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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

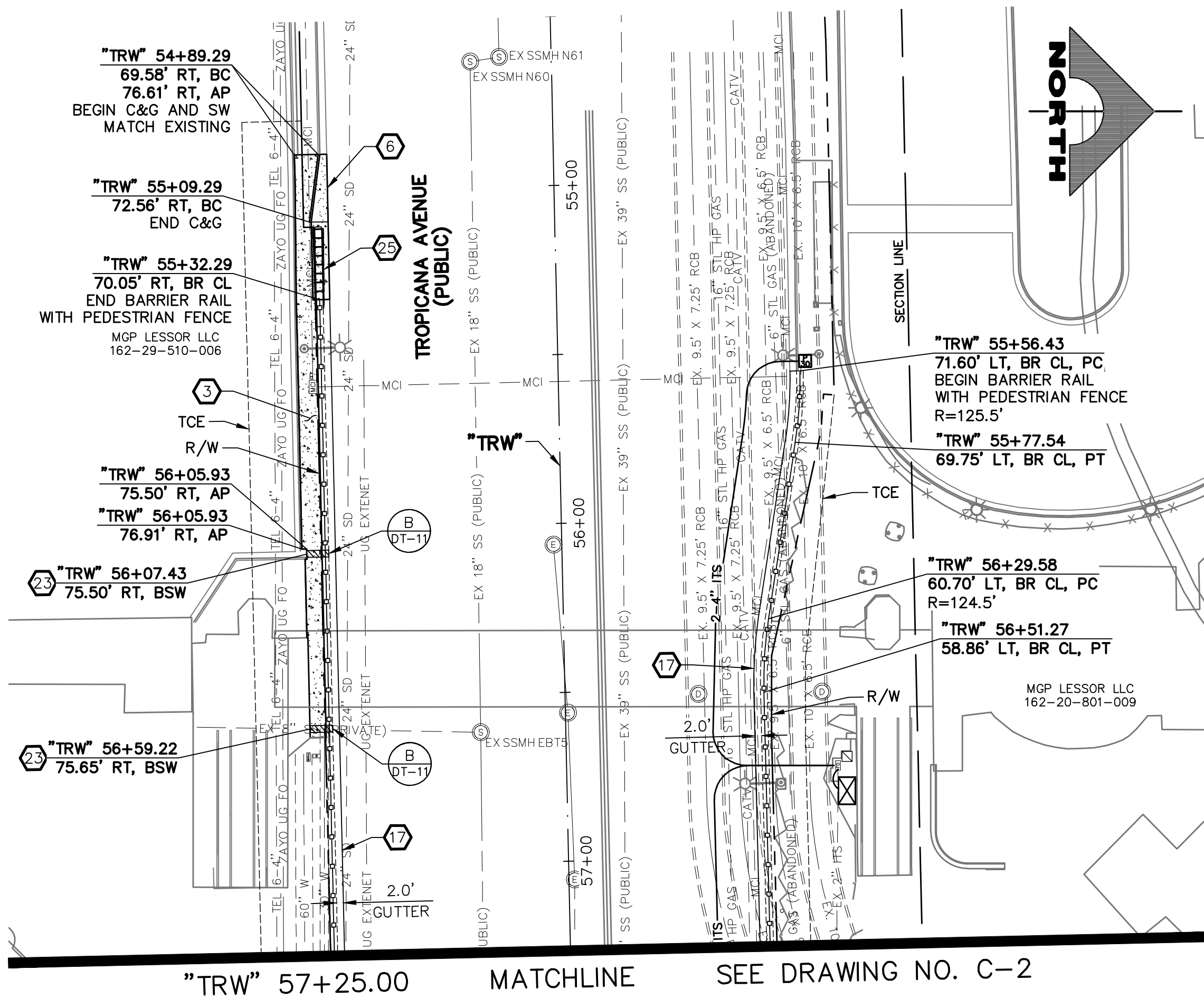


PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-9
VERT: NONE	SHT. 38 OF 169
FIELD BOOK	L-2304

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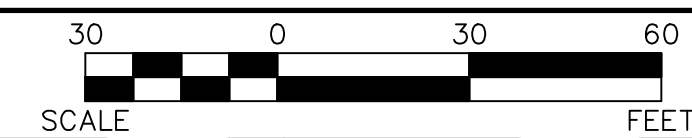




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**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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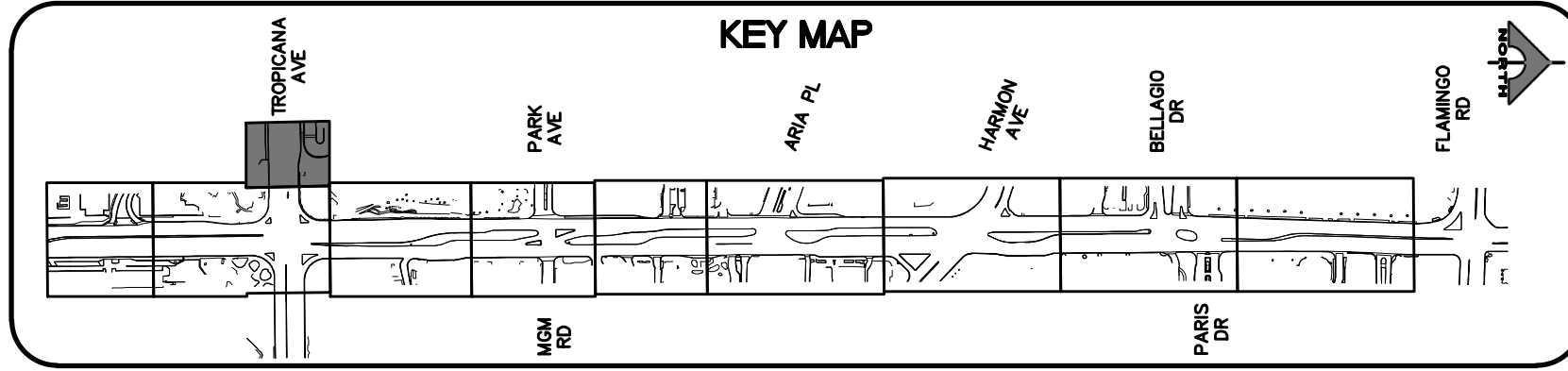
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

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1-702-227-2929

**FAST**

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1-702-432-5300

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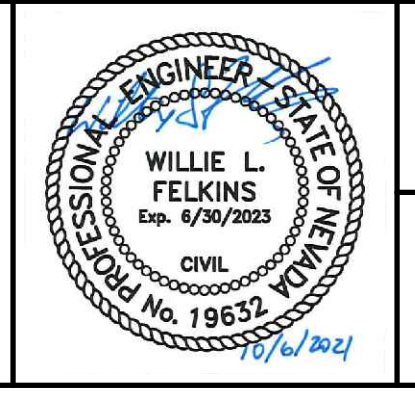


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION PLAN**

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

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



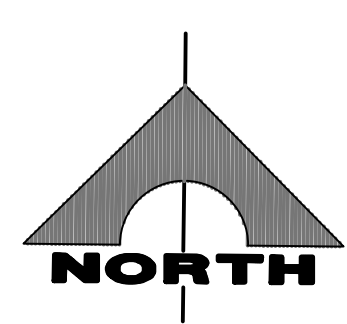
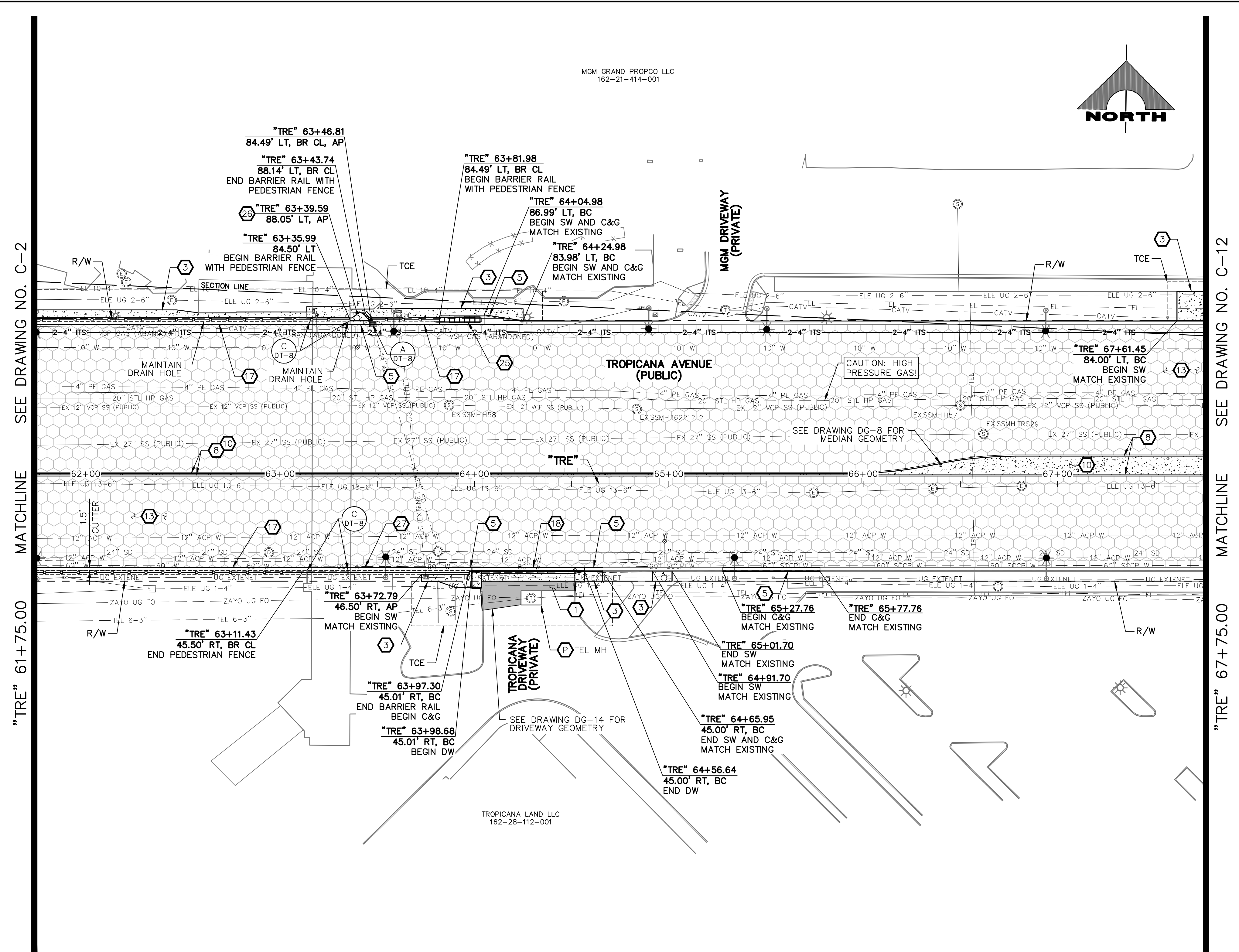
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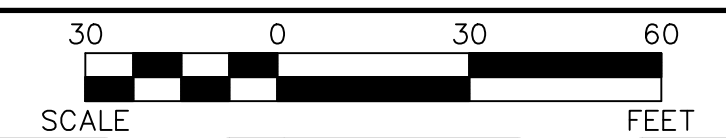
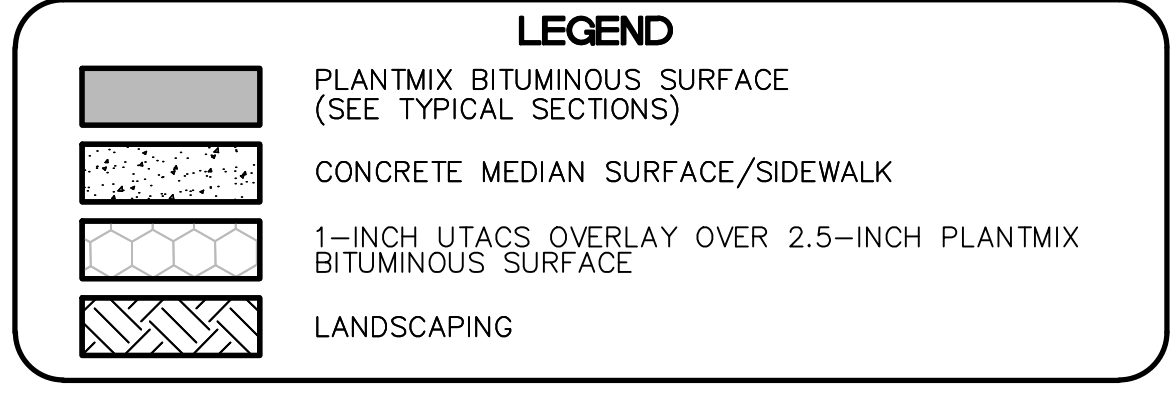
SCALE	DRAWING NO.
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FIELD BOOK	L-2304



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  28. CONSTRUCT CASE I SIDEWALK RAMP TO DIMENSIONS SHOWN. "A" AND "B" LENGTHS ARE 8 FT MEASURED ALONG BACK OF CURB, UNLESS OTHERWISE NOTED (USDCCA STD. DWG. NO. 235)
  29. CONSTRUCT MEDIAN CROSSING (SEE DETAIL E, DWG. DT-8)
  30. CONSTRUCT CONCRETE RETAINING WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAILS B AND C, DWG. S-2)
  31. SEE LVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  32. PROTECT-IN-PLACE
- NOTES**
1. SEE B-DRAWINGS FOR BOLLARD CONSTRUCTION
  2. SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
  3. SEE U-DRAWING FOR UTILITY ADJUSTMENTS AND RELOCATIONS
  4. SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  5. SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



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

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

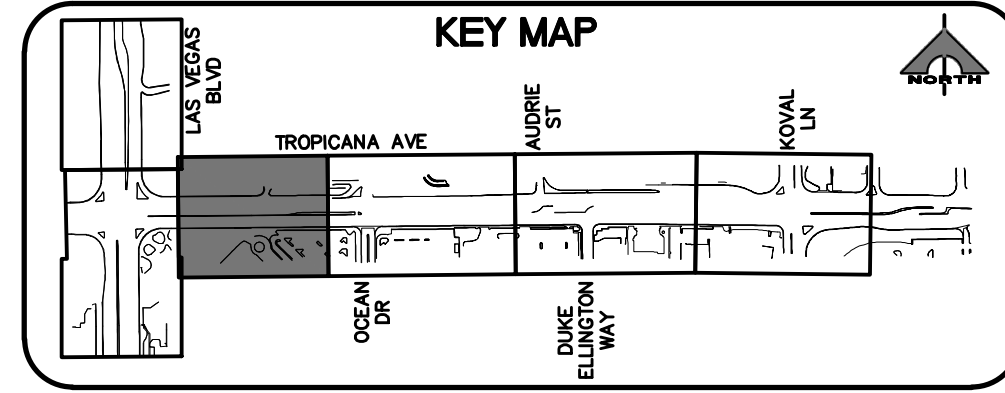
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

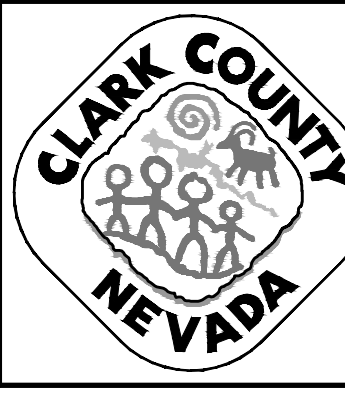
**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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



REV. NO.	DATE	DESCRIPTION	APPROVED

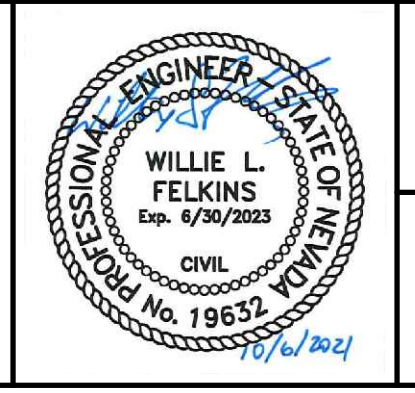


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

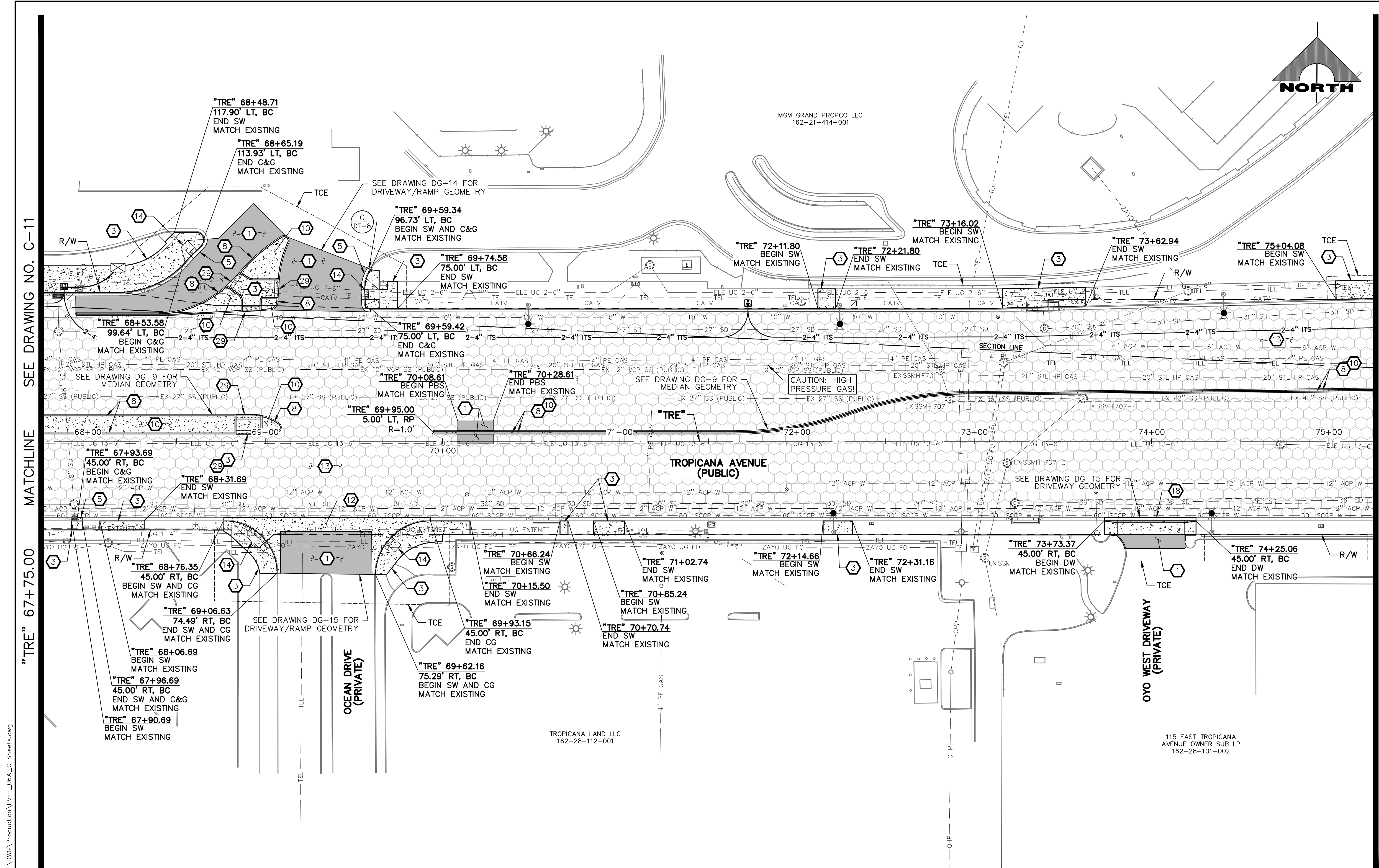
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE: HORIZ: AS SHOWN VERT: NONE FIELD BOOK

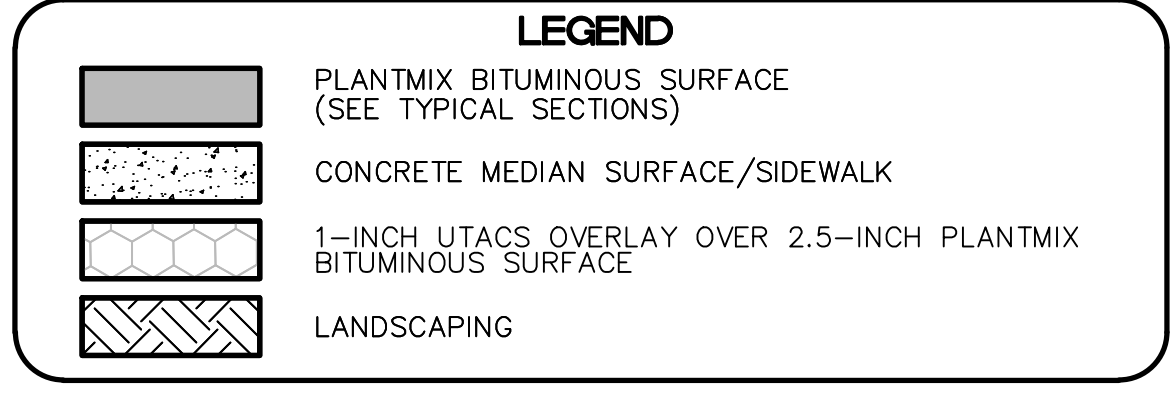
DRAWING NO. **C-11**  
SHT. 40 OF 169  
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





- ### CONSTRUCTION NOTES
- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
  - CONSTRUCT CONCRETE SIDEWALK. CONCRETE SHALL BE 5000 PSI AND CONTAIN 1 LAYER OF  $\phi$  1/4, 6 X 6 WIRE MESH BETWEEN METAL FRAME AND FINISHED SURFACE. SIDEWALK SHALL BE 12-INCHES THICK PER DETAIL A ON DWG. DT-2 AND EXPANSION JOINT SHALL BE INSTALLED PER DETAIL A ON DWG. DT-5
  - CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234) (SEE DETAIL B, DWG. DT-5, IF ADJACENT TO NEW BOLLARDS)
  - CONSTRUCT CONCRETE CROSS GUTTER (USDCCA STD. DWG. NO. 228)
  - CONSTRUCT "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 216)
  - CONSTRUCT NDOT TYPE 1 CURB & GUTTER (NDOT STD. DETAIL NO. CS-1)
  - CONSTRUCT 18-INCH "L" TYPE CURB & GUTTER (USDCCA STD. DWG. NO. 219)
  - CONSTRUCT "A" TYPE CURB (USDCCA STD. DWG. NO. 219)
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  - CONSTRUCT CONCRETE WALL AND PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL 2, DWG. S-1)
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  - CONSTRUCT SIDEWALK DRAIN (USDCCA STD. DWG. NO. 236)
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  - SEE LVWMD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - PROTECT-IN-PLACE
- ### NOTES
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  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
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  - SEE COM-DRAWINGS FOR COMMUNICATIONS DUCT BANK
  - SEE SL-DRAWINGS FOR LIGHTING AND POWER DUCT BANK



"TRE" 67+75.00 MATCHLINE SEE DRAWING NO. C-11

MATCHLINE SEE DRAWING NO. C-13 "TRE" 75+25.00

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

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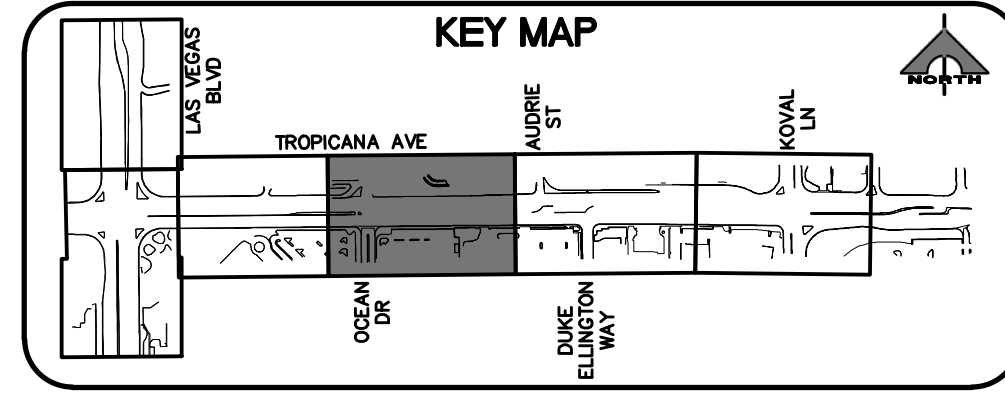
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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REV. NO.	DATE	DESCRIPTION	APPROVED

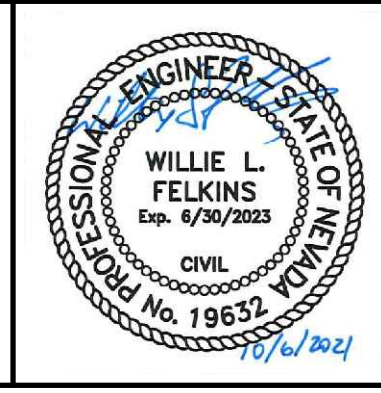


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

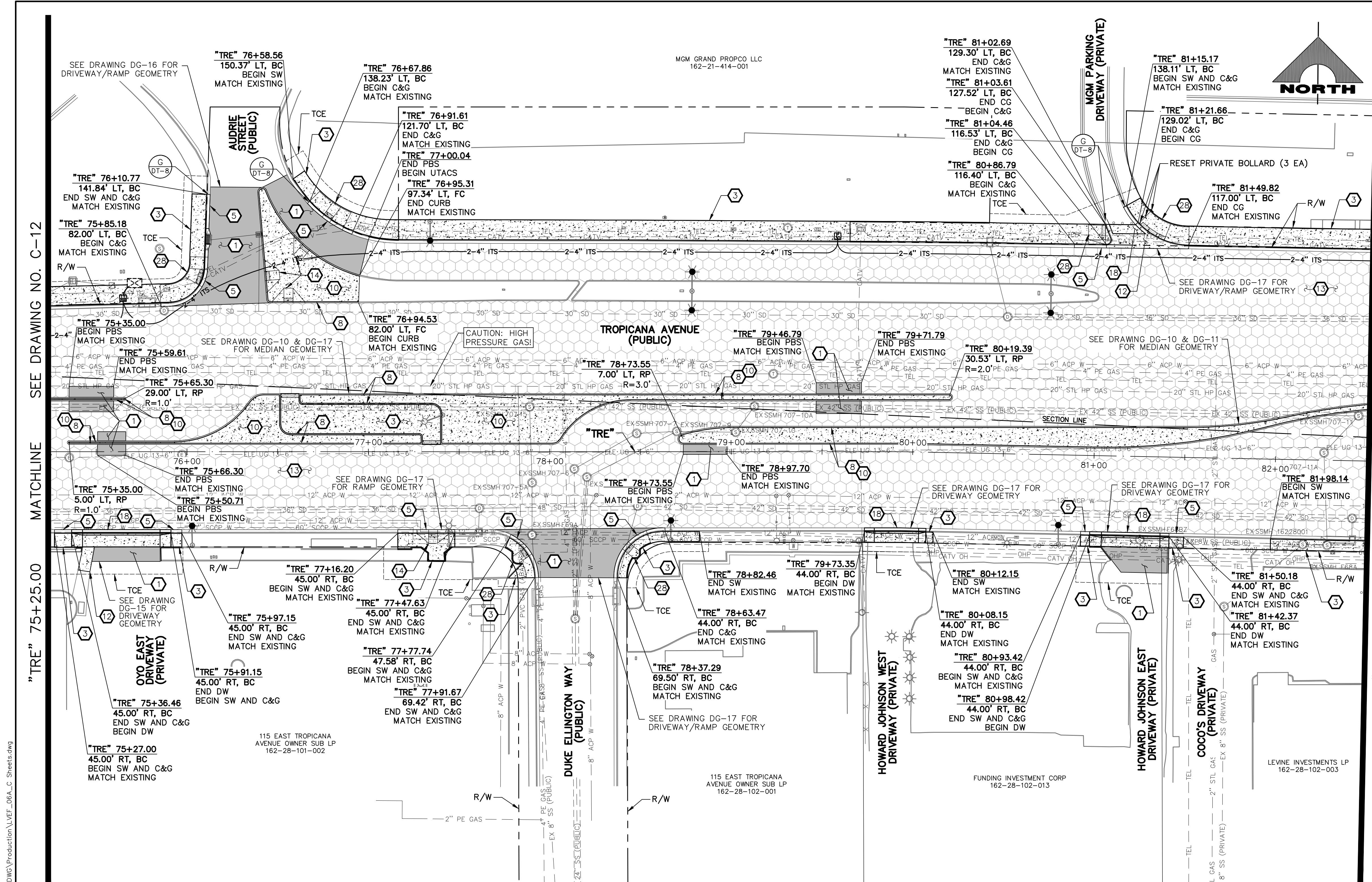
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-12
VERT: NONE	SHT. 41 OF 169
FIELD BOOK	L-2304

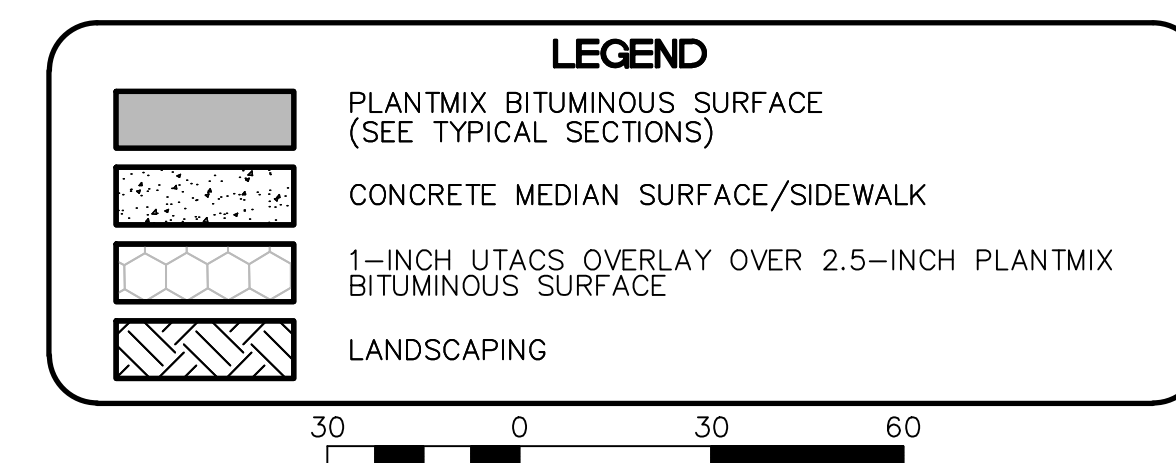
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BID NO.: 603976-21





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  - PROTECT-IN-PLACE
- NOTES**
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  - SEE DG-DRAWINGS FOR DETAILED GRADING, HORIZONTAL GEOMETRY, AND MEDIAN GEOMETRICS
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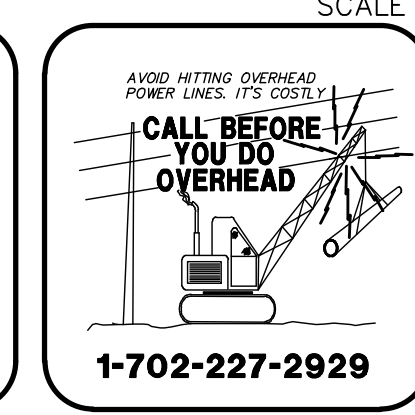
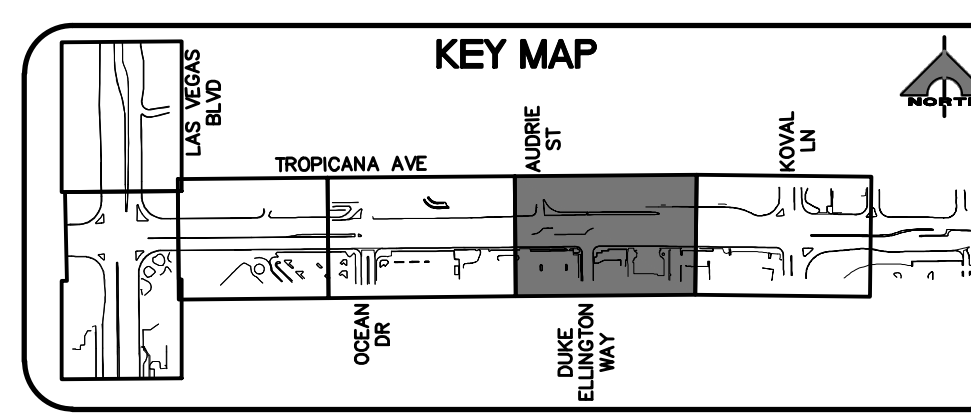
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

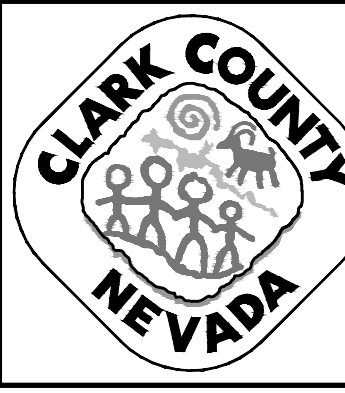
**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

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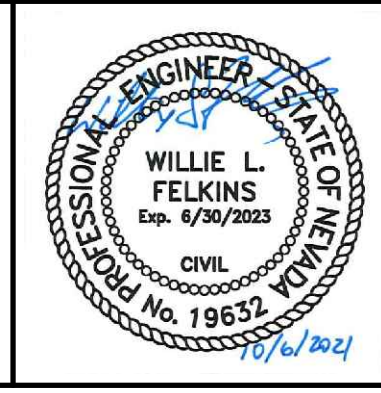


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

**GCV**  
ENGINEERS \ SURVEYORS

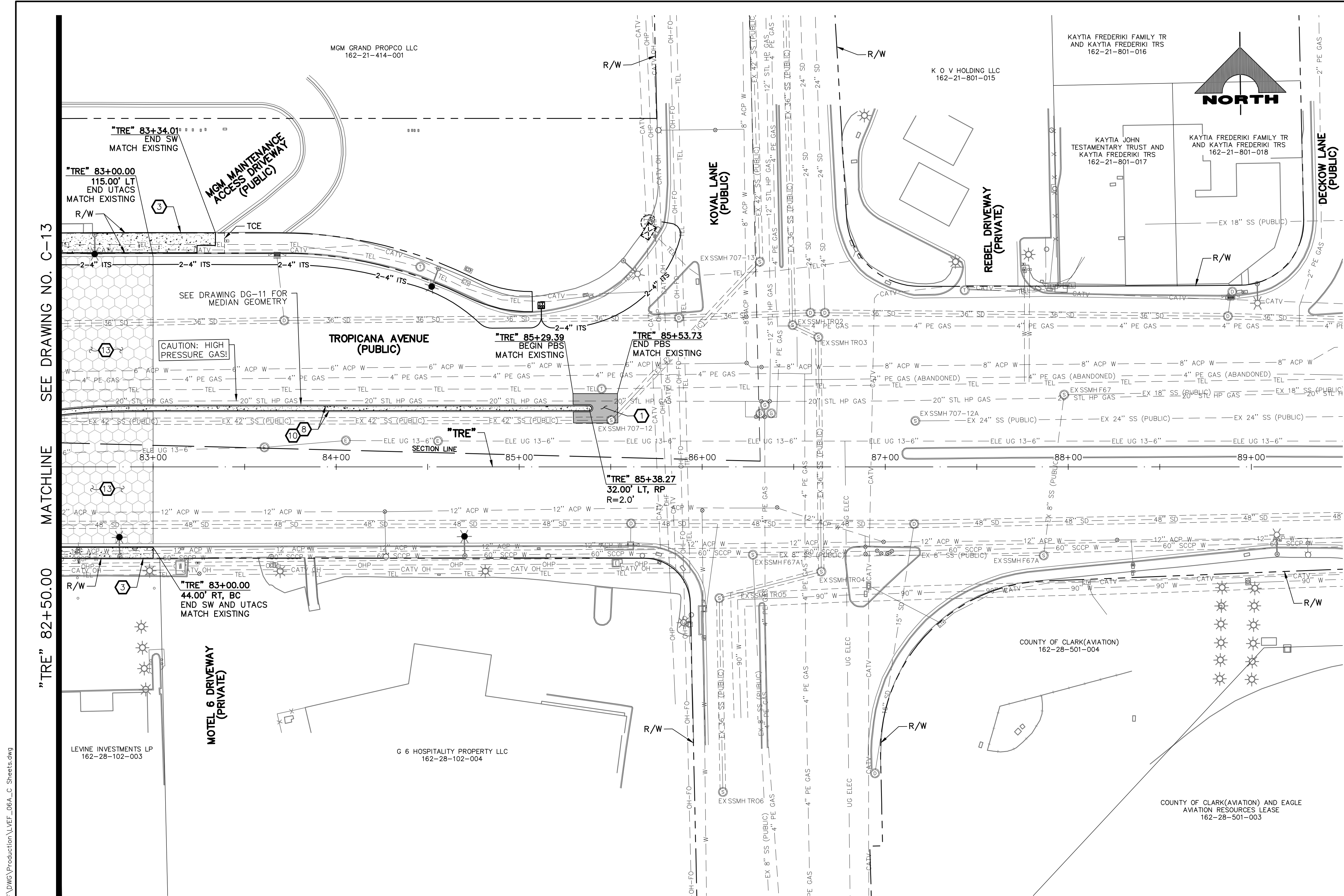
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

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

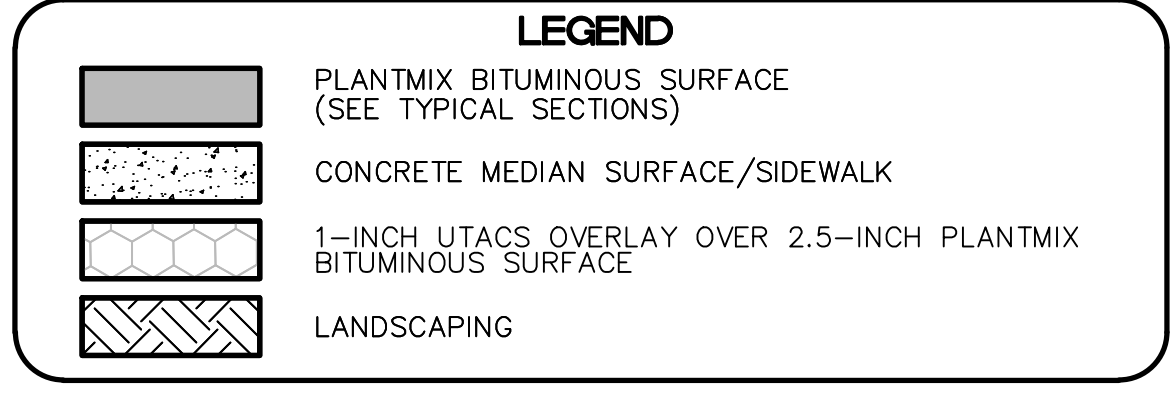
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)





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- CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TY-DRAWINGS)
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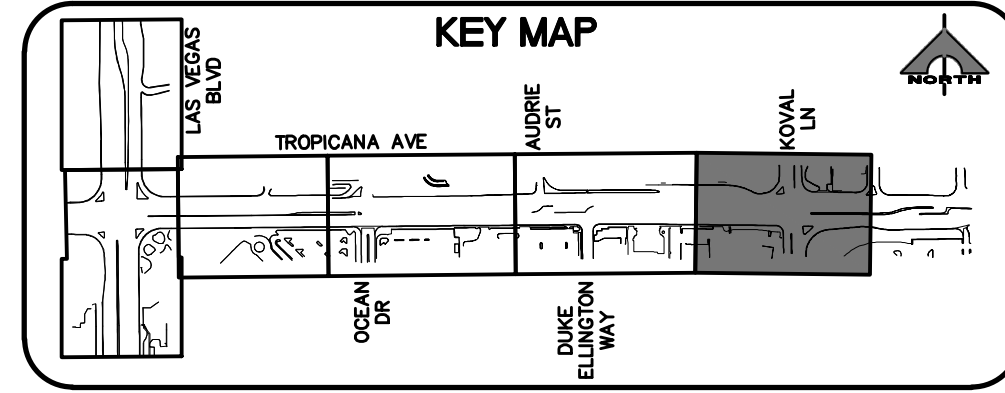
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21983

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



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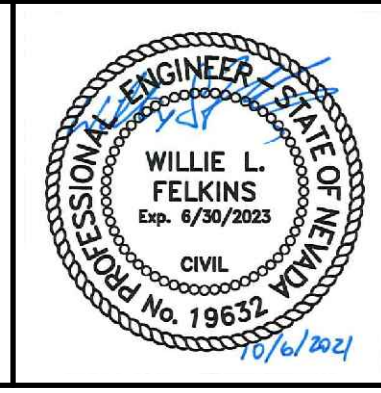


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### CONSTRUCTION PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

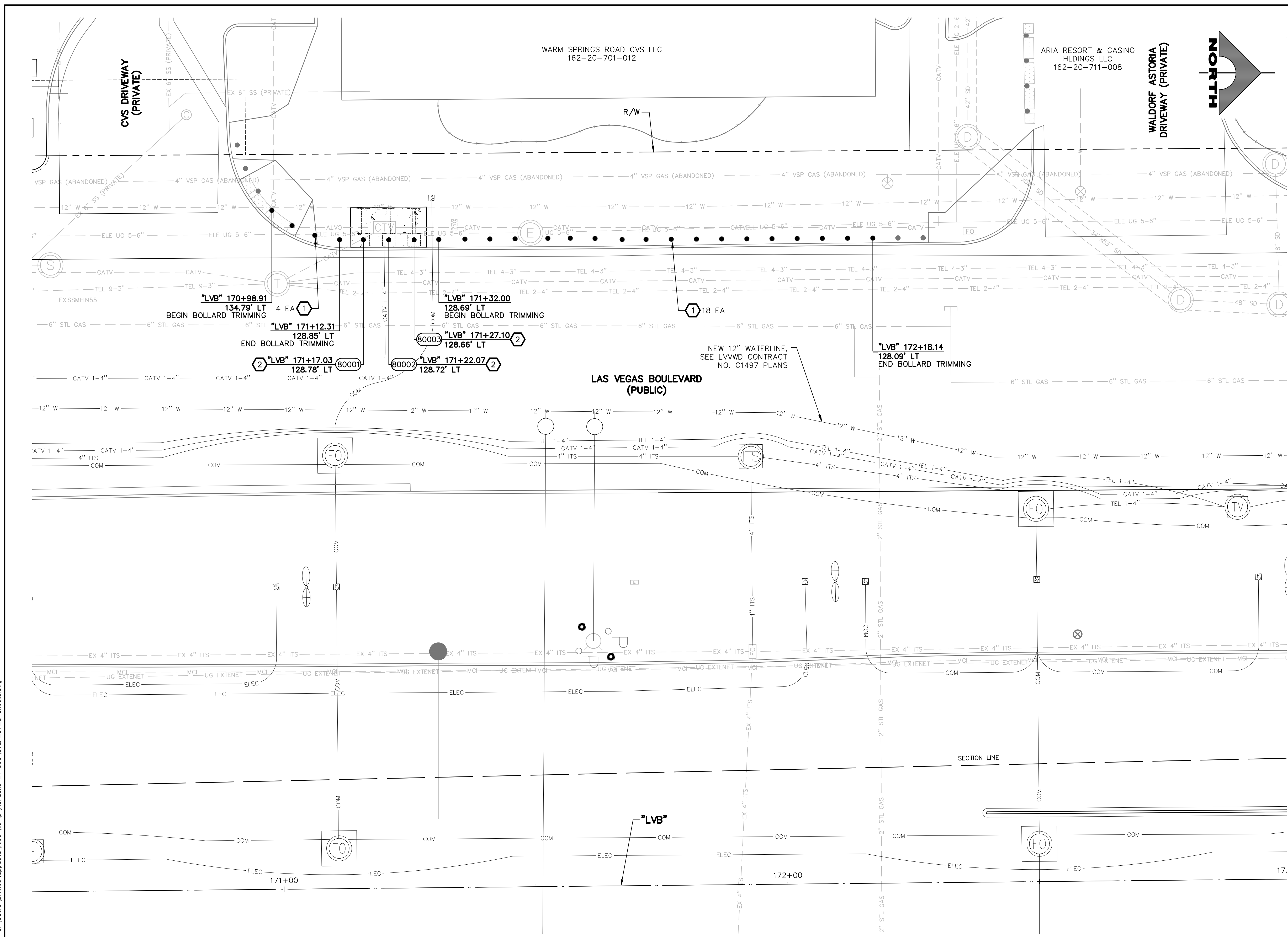
SCALE	DRAWING NO.
HORIZ: AS SHOWN	C-14
VERT: NONE	SHT. 43 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21



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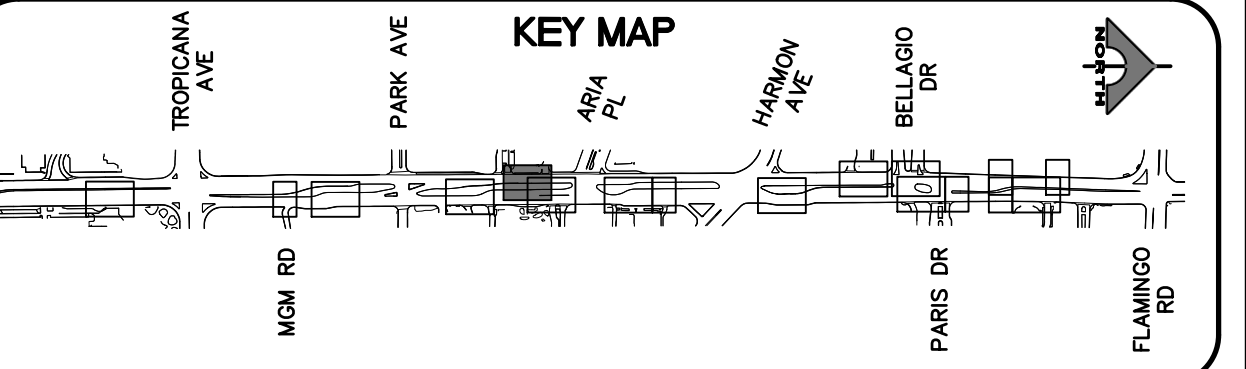
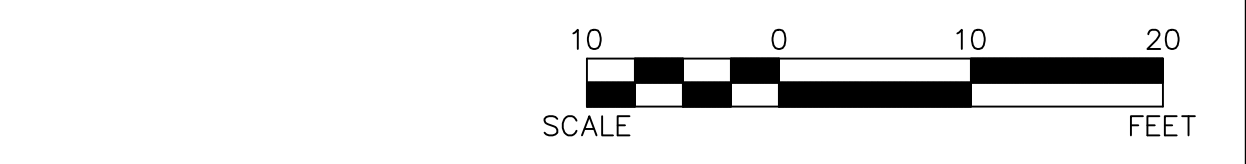
- BOLLARD NOTES**
- 1 TRIM BOLLARD TO 36-INCH HEIGHT (SEE DETAIL C, DWG. DT-5)
  - 2 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
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  - 4 INSTALL 48-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 5 INSTALL 52-INCH HEIGHT TRENCH BOLLARD (SEE DETAIL B, DWG. DT-4)
  - 6 INSTALL 48-INCH HEIGHT REMOVABLE BOLLARD (SEE DETAIL A, DWG. DT-4)
  - 7 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 8 INSTALL BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 9 INSTALL 36-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
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  - P PROTECT-IN-PLACE
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**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

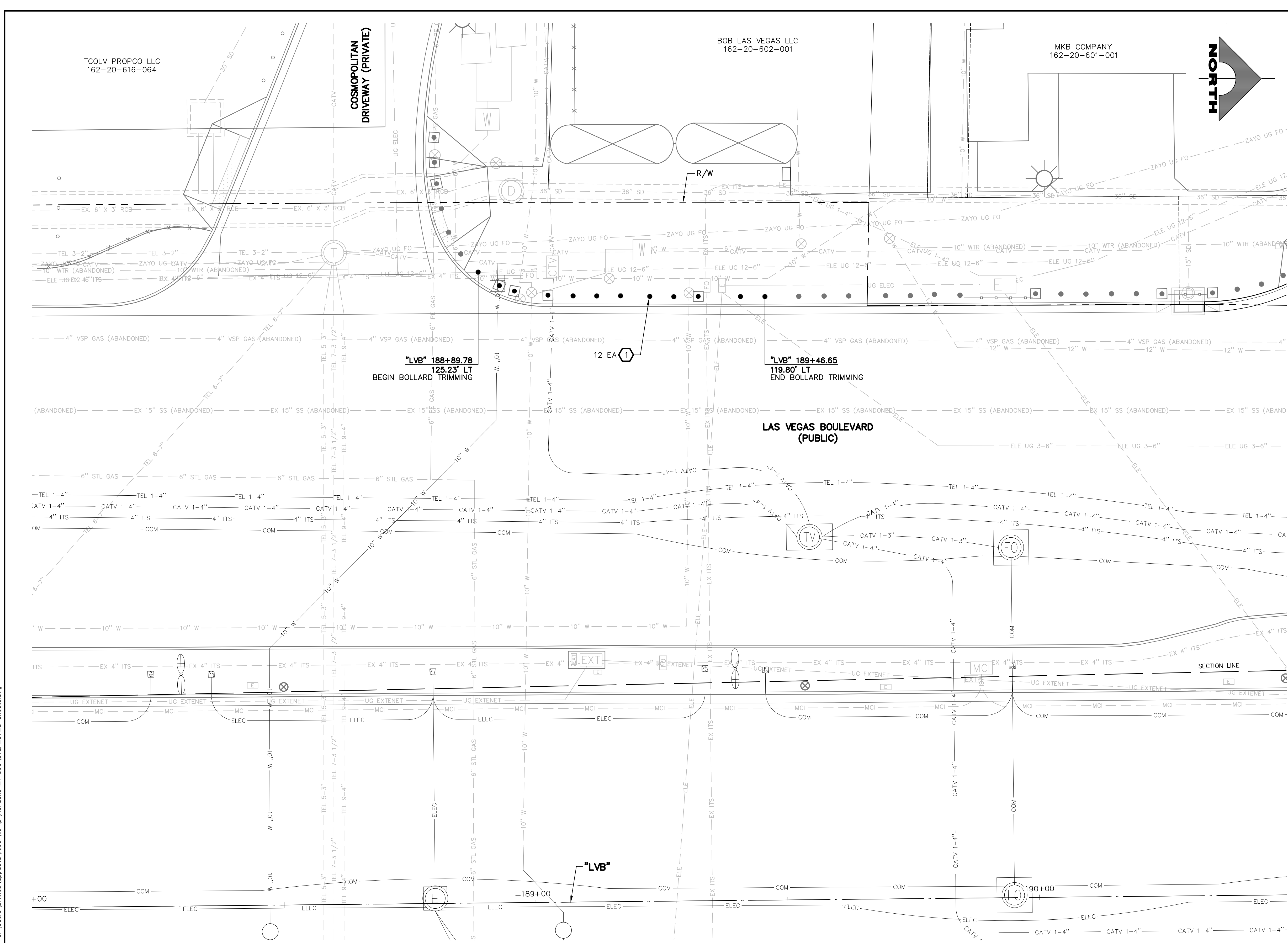
**CLARK COUNTY NEVADA**  
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**BOLLARD PLAN**  
**"LVB" 170+50.00 TO "LVB" 173+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV-EF	DRAWN BY: TAA	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	B-1
APPROVED BY: _____	1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com	VERT: NONE	SHT. 44 OF 169
		FIELD BOOK	L-2304

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





- BOLLARD NOTES**
- 1 TRIM BOLLARD TO 36-INCH HEIGHT (SEE DETAIL C, DWG. DT-5)
  - 2 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
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  - 12 INSTALL 52-INCH HEIGHT DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
- Ⓟ PROTECT-IN-PLACE

**NOTES**

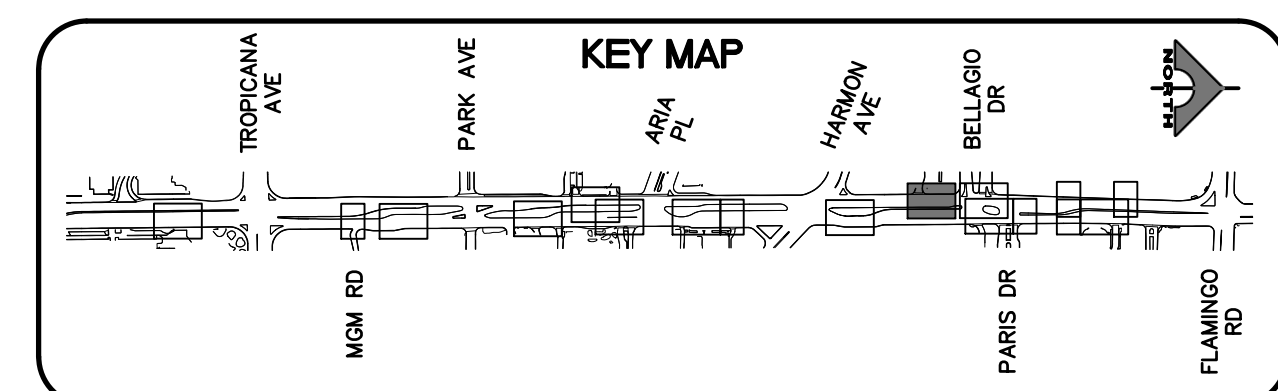
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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



**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.**

**CALL BEFORE YOU DO OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

**"LVB" 188+00.00 TO "LVB" 190+50.00**

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



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

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-2
VERT: NONE	SHT. 45 OF 169
FIELD BOOK	L-2304

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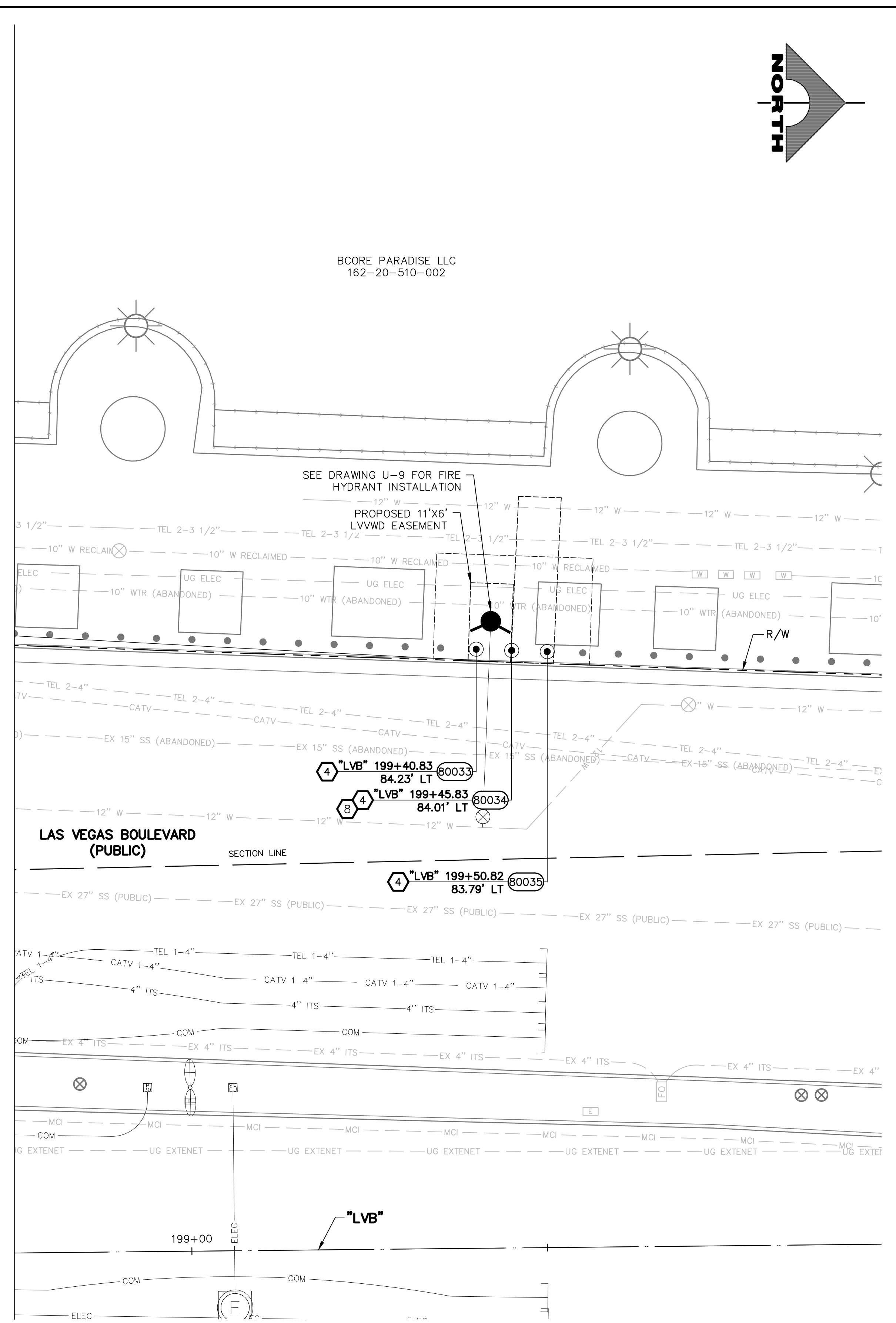
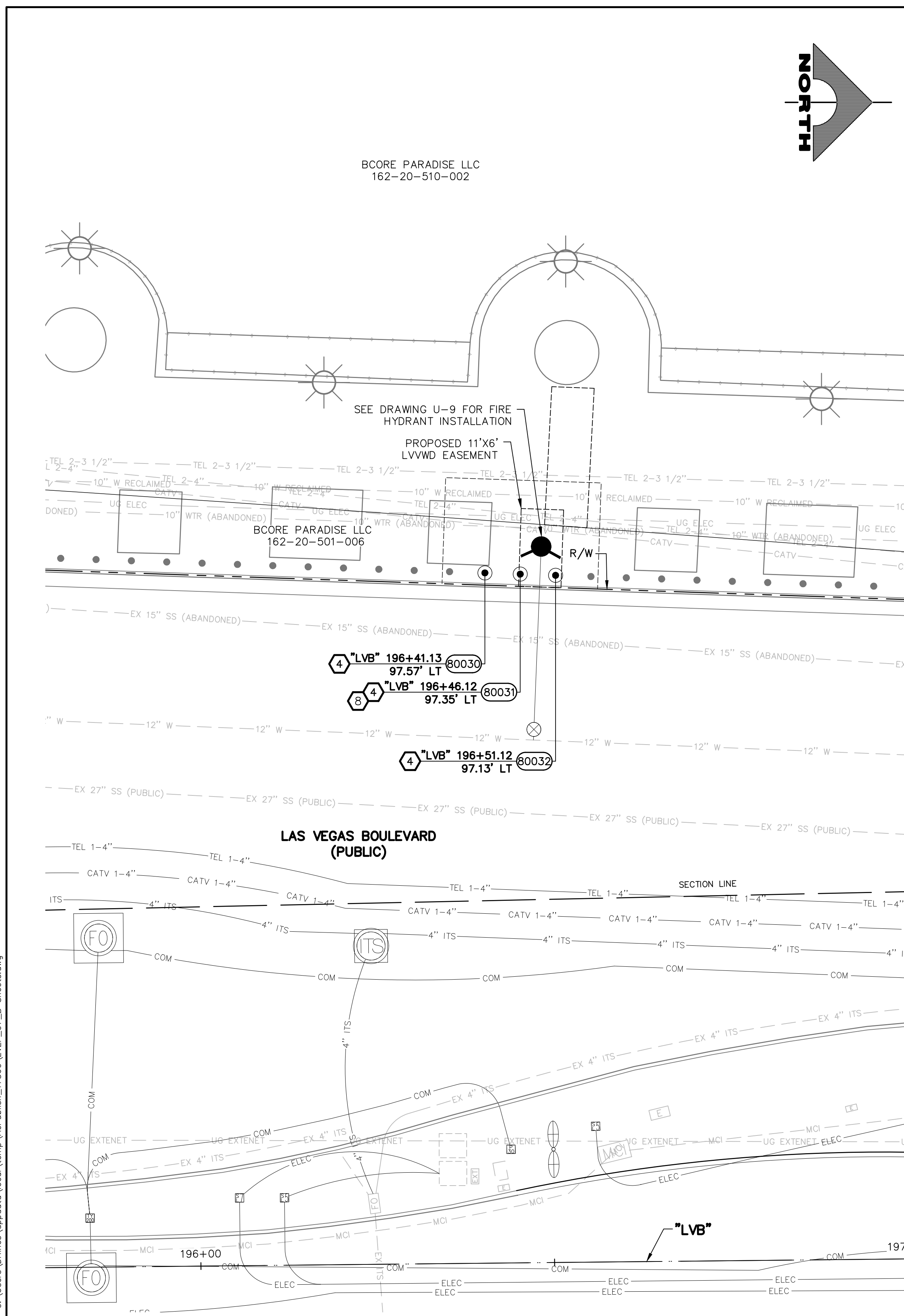
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21







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



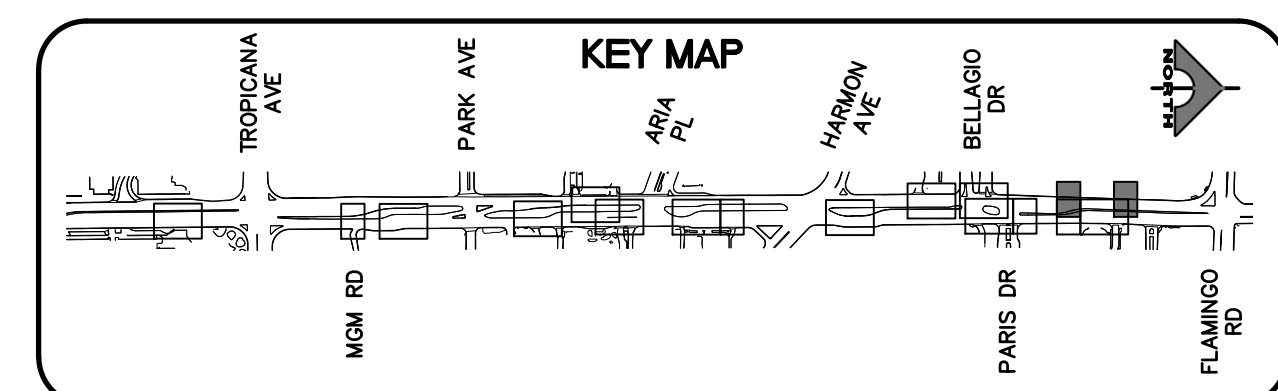
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**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

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

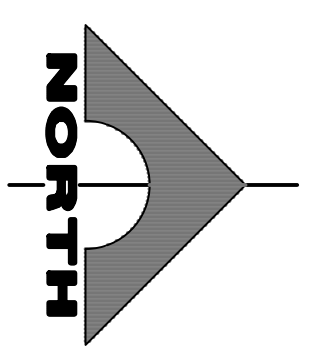
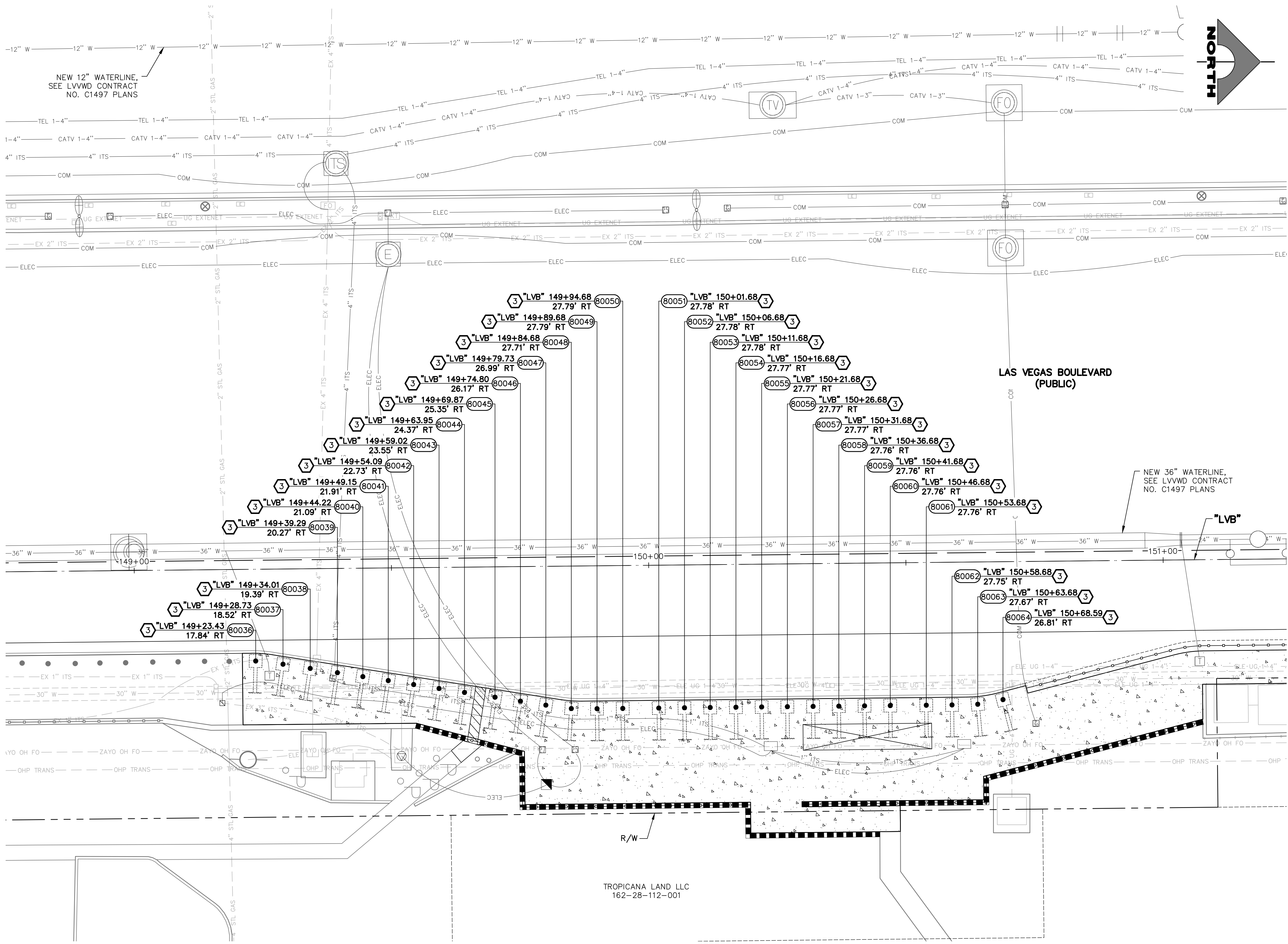
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 500-897-LV-EF	DRAWN BY: TAA	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	B-4
APPROVED BY: _____	1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com	VERT: NONE	SHT. 47 OF 169
<b>GCV</b> ENGINEERS \ SURVEYORS		FIELD BOOK	L-2304

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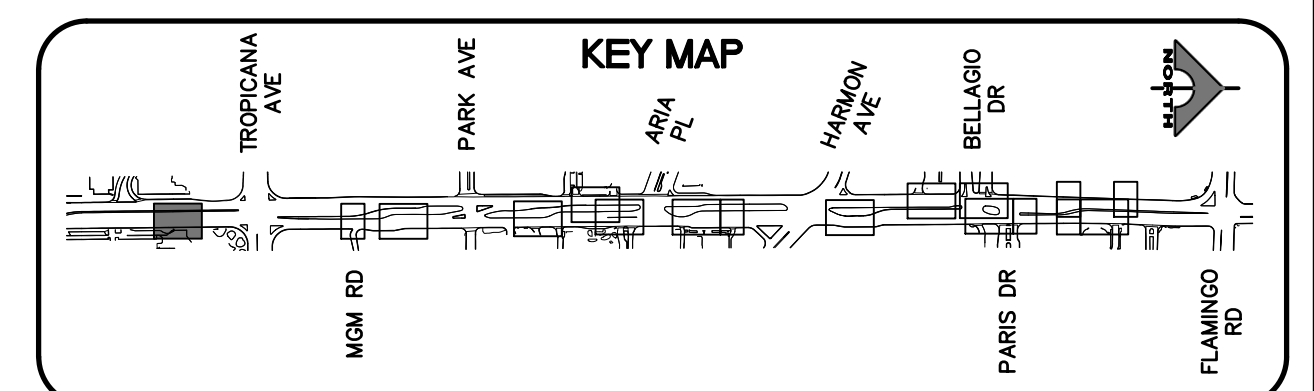


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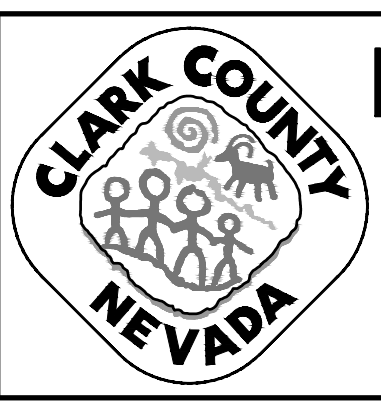
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 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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



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REV. NO.	DATE	DESCRIPTION	APPROVED



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



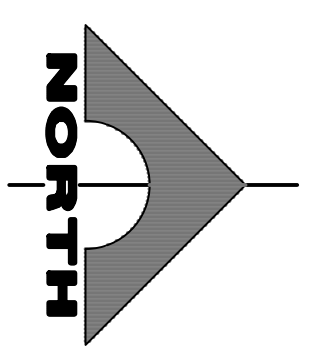
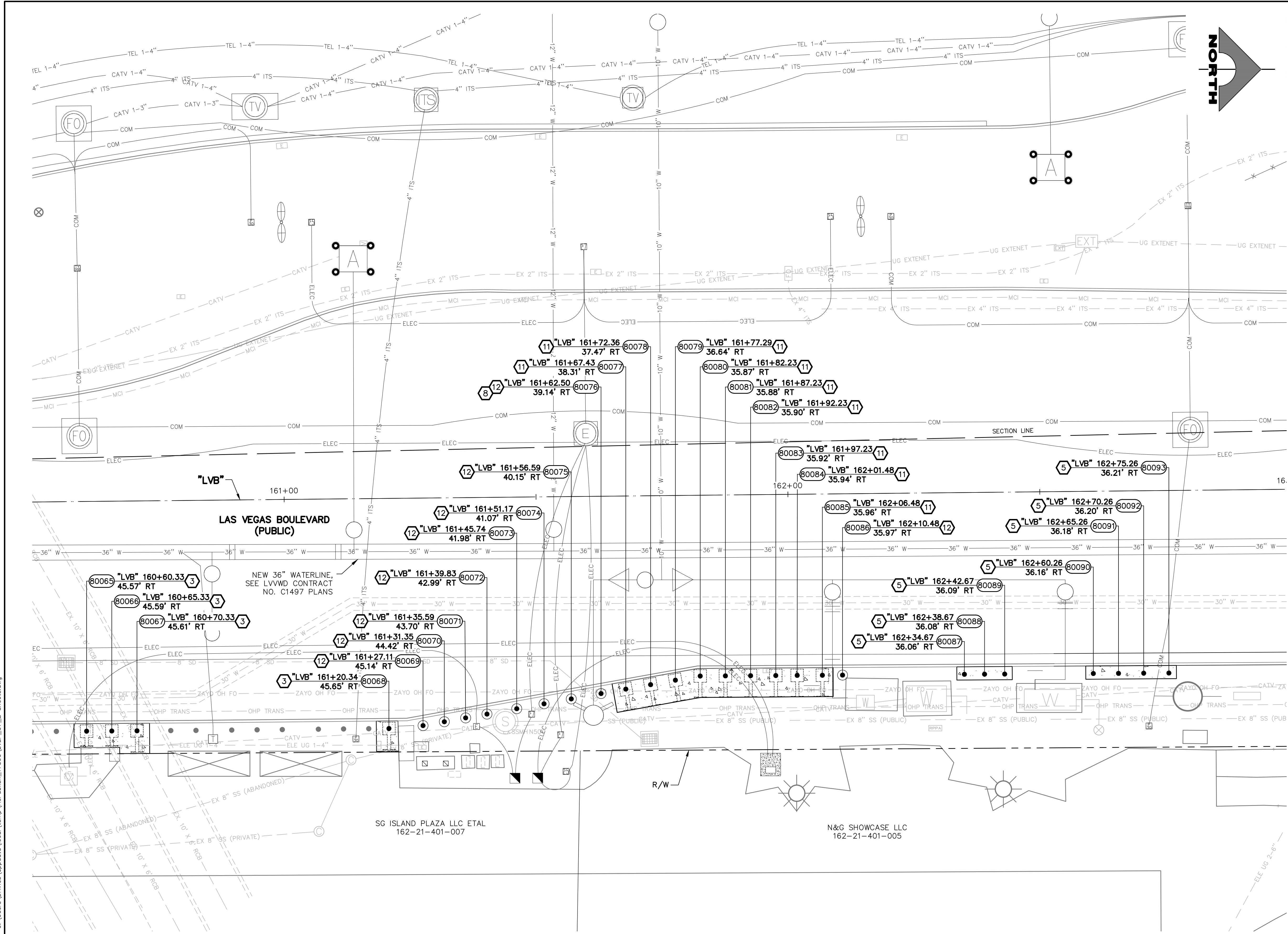
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
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 gcvengineering.com

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

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



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



- BOLLARD NOTES**
- 1 TRIM BOLLARD TO 36-INCH HEIGHT (SEE DETAIL C, DWG. DT-5)
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**APPROVED FOR CONSTRUCTION**

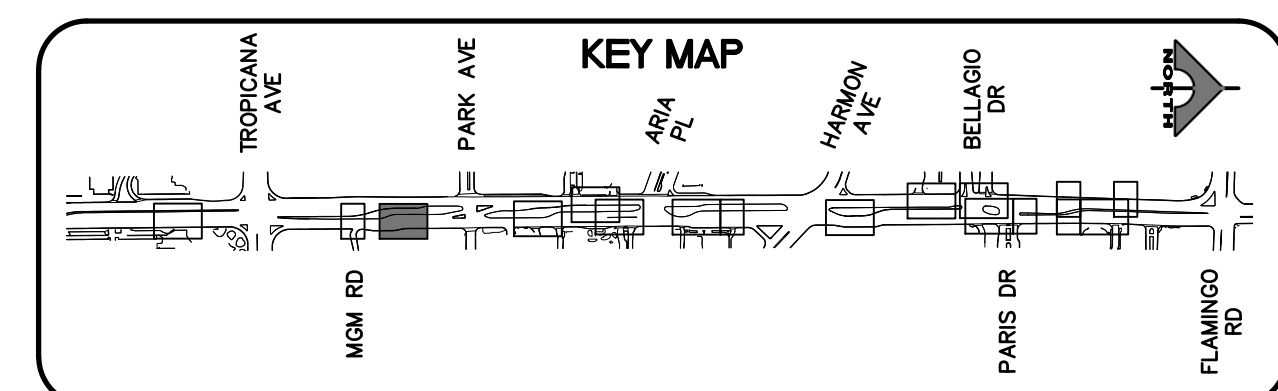
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

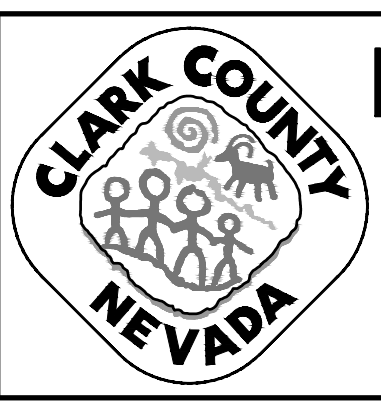
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

**FROM BOLLARD 80069 TO 80093**

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



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

**"LVB" 160+50.00 TO "LVB" 163+00.00**

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



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

**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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gcwengineering.com

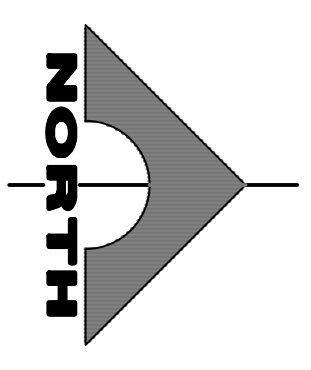
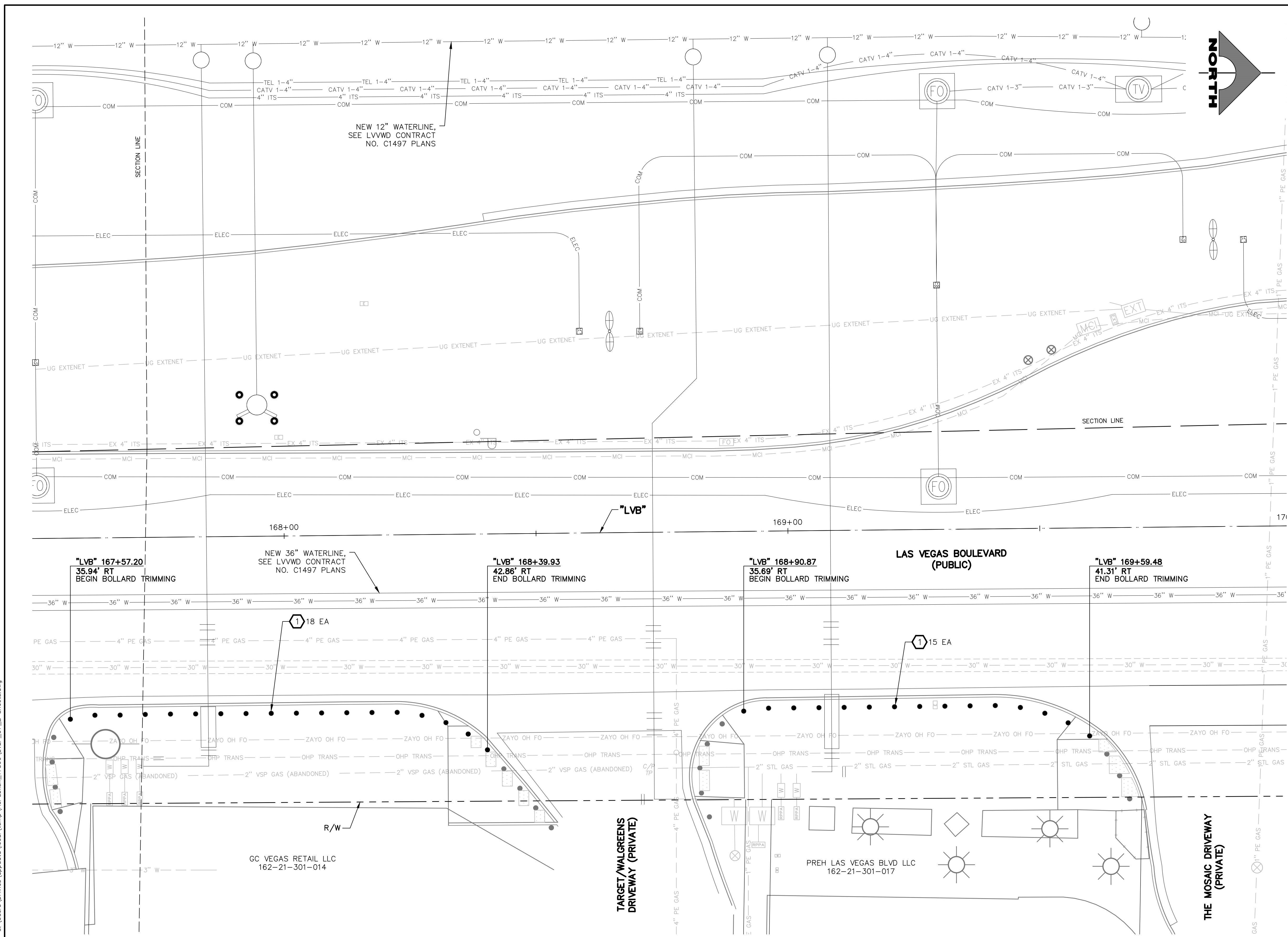
SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-6
VERT: NONE	SHT. 49 OF 169
FIELD BOOK	L-2304

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BID NO.: 605978-21



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



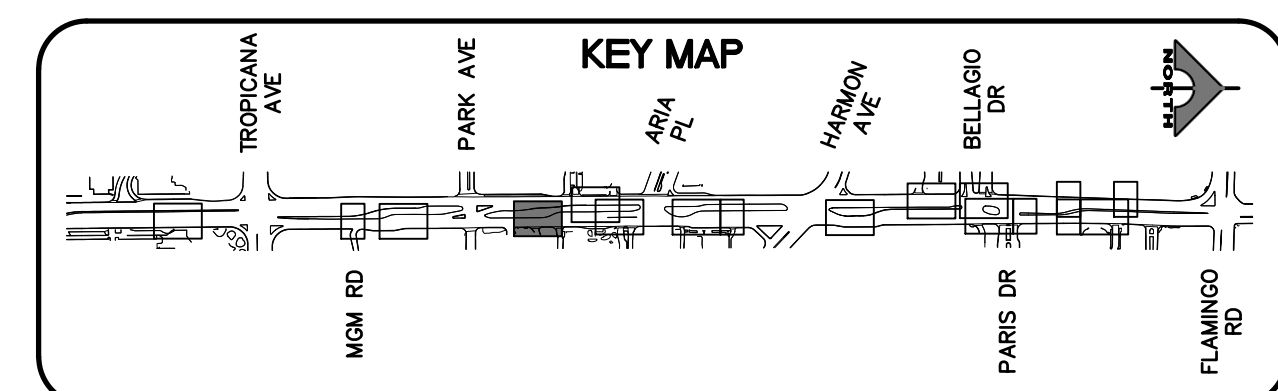
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**APPROVED FOR CONSTRUCTION**

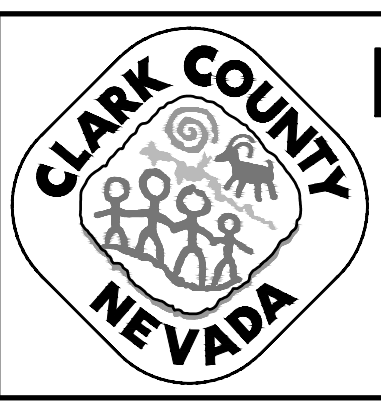
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

"LVB" 167+50.00 TO "LVB" 170+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD., LAS VEGAS, NV 89146  
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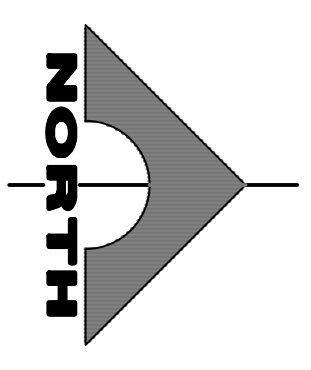
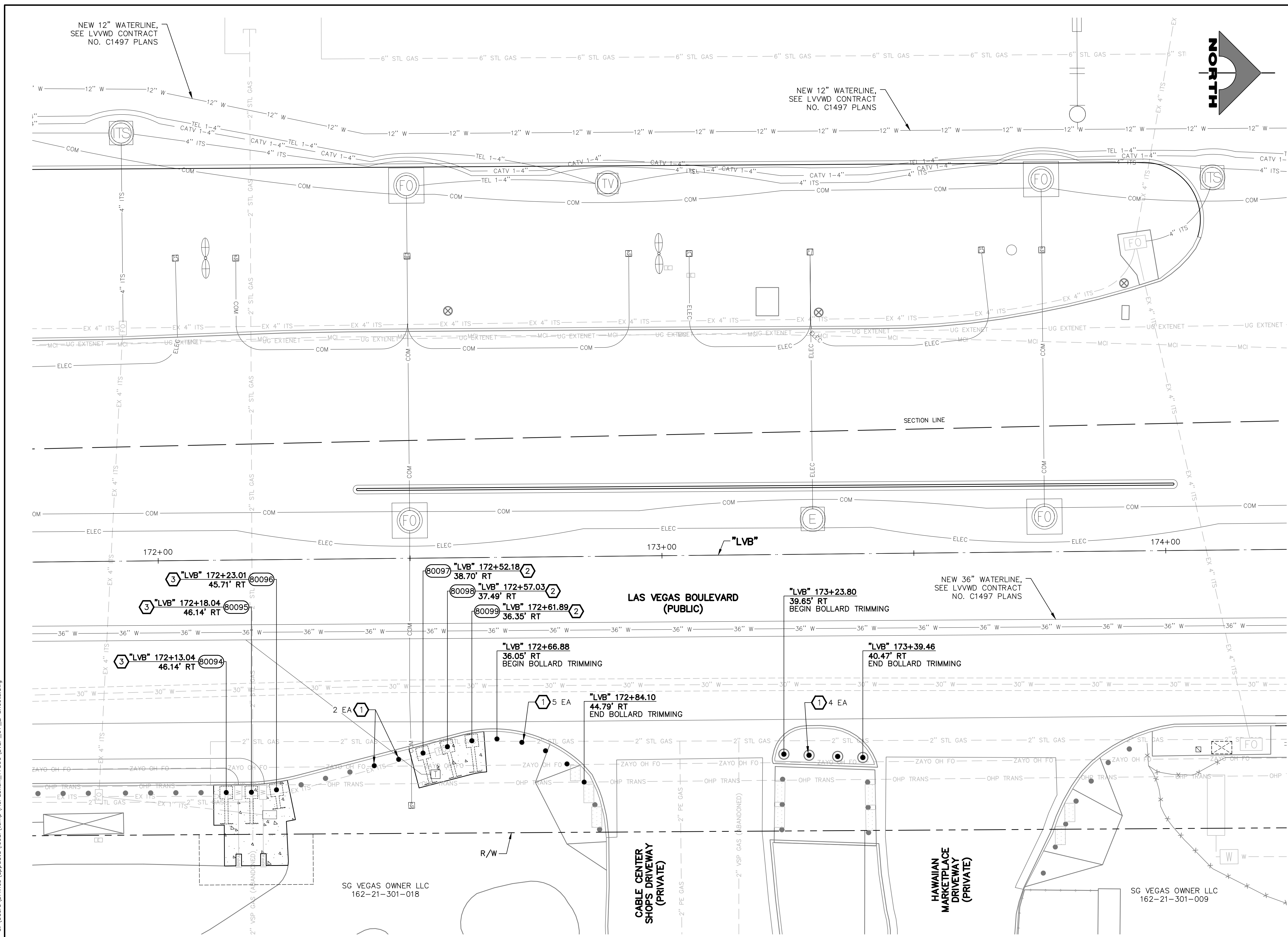
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FIELD BOOK	L-2304

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BID NO.: 605978-21



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



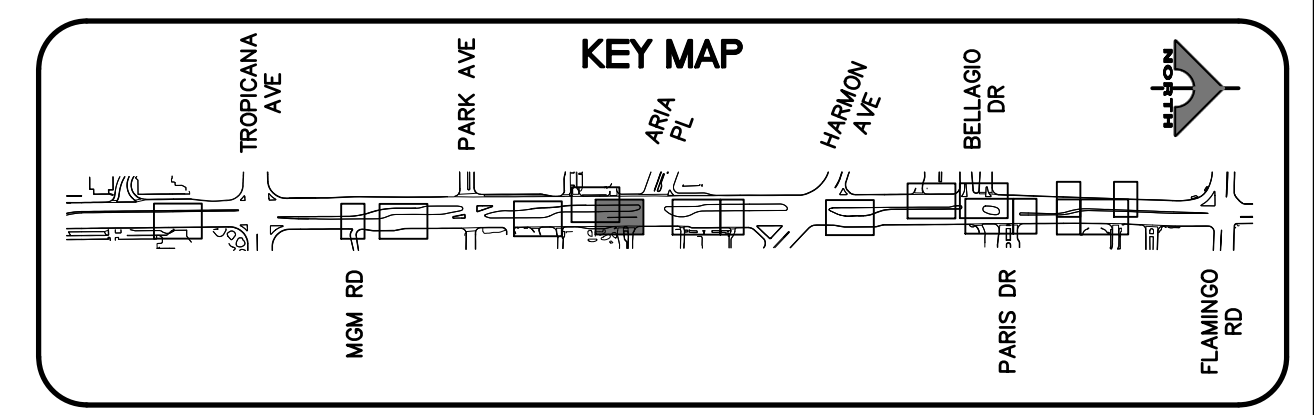
- BOLLARD NOTES**
- 1 TRIM BOLLARD TO 36-INCH HEIGHT (SEE DETAIL C, DWG. DT-5)
  - 2 INSTALL 36-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
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  - 4 INSTALL 48-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
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1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

**"LVB" 171+75.00 TO "LVB" 174+25.00**

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

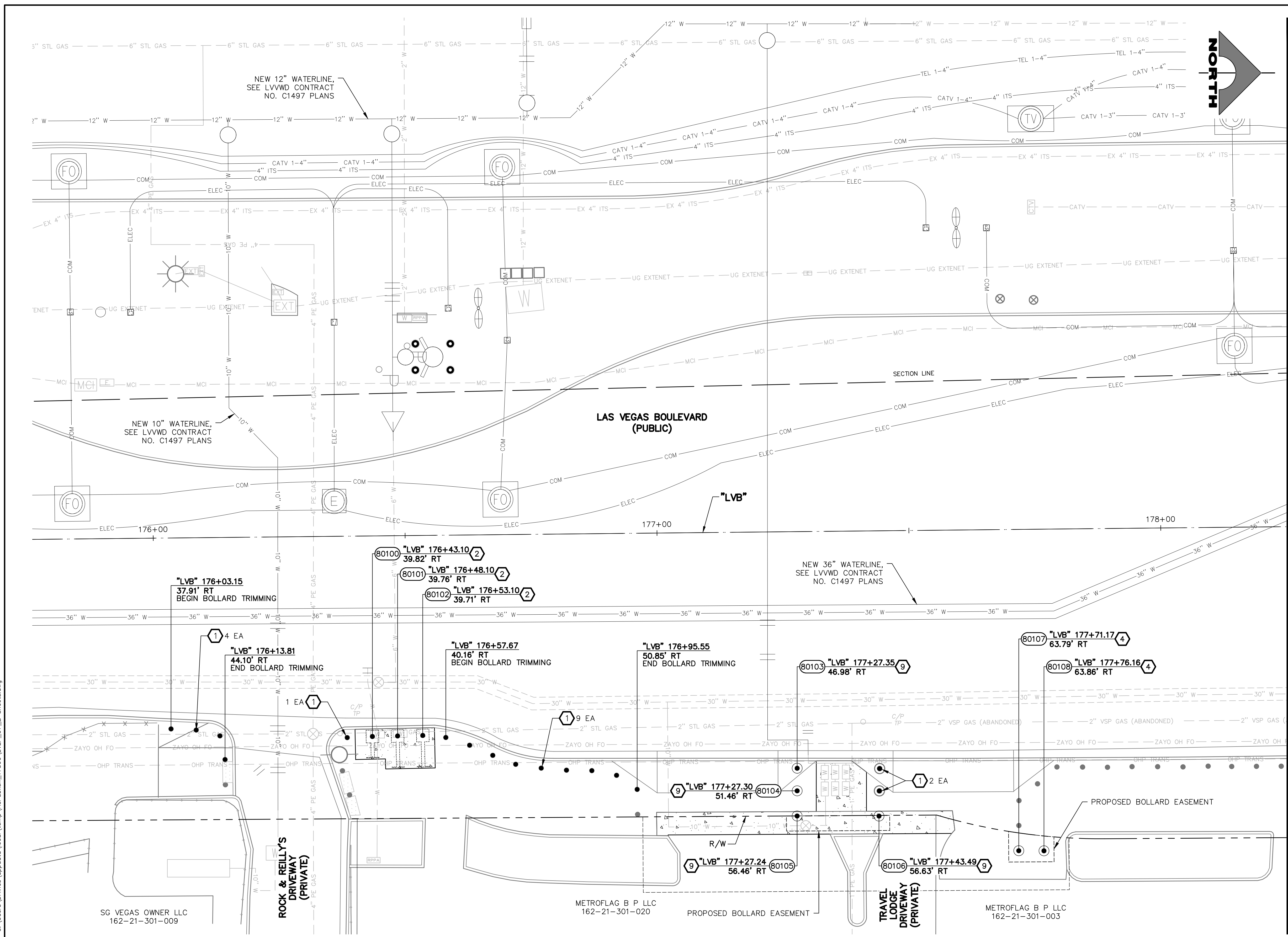


PROJECT No: 500-897-LV-EF	DRAWN BY: TAA	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	B-8
APPROVED BY: _____	1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com	VERT: NONE	SHT. 51 OF 169
		FIELD BOOK	L-2304

10-15-21 11:17:04 C:\Users\Drhines\AppData\Local\Temp\AcPublish\_17560\LV\_EF\_07\_B\_Sheets.dwg



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



SEE DRAWING NO. B-10  
MATCHLINE  
"LVB" 178+25.00

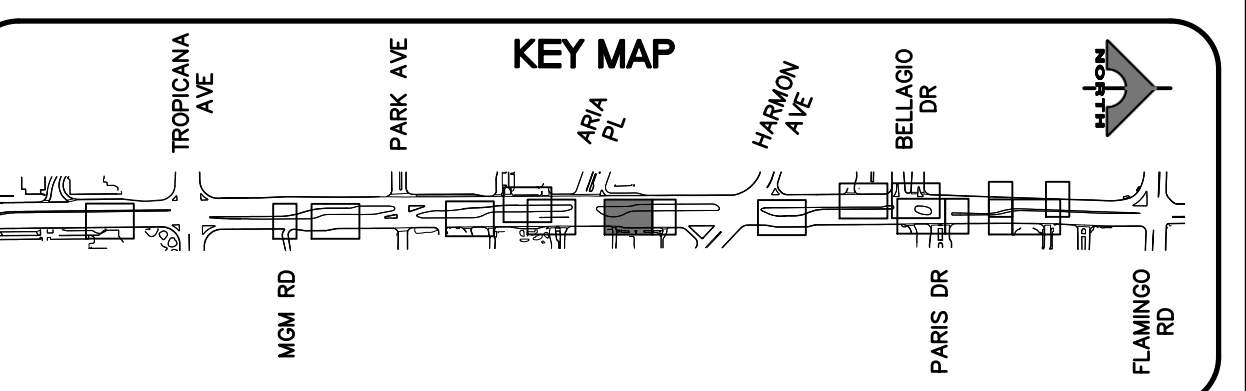
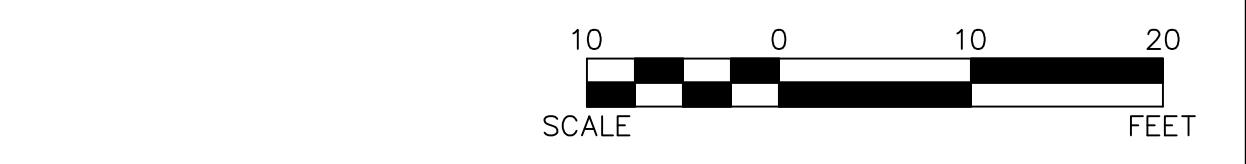
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LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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



**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.**

**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

FIREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

**"LVB" 175+75.00 TO "LVB" 178+25.00**

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

**PROFESSIONAL ENGINEER STATE OF NEVADA**

**WILLIE L. FELKINS**

Exp. 6/30/2023

CIVIL

No. 19653

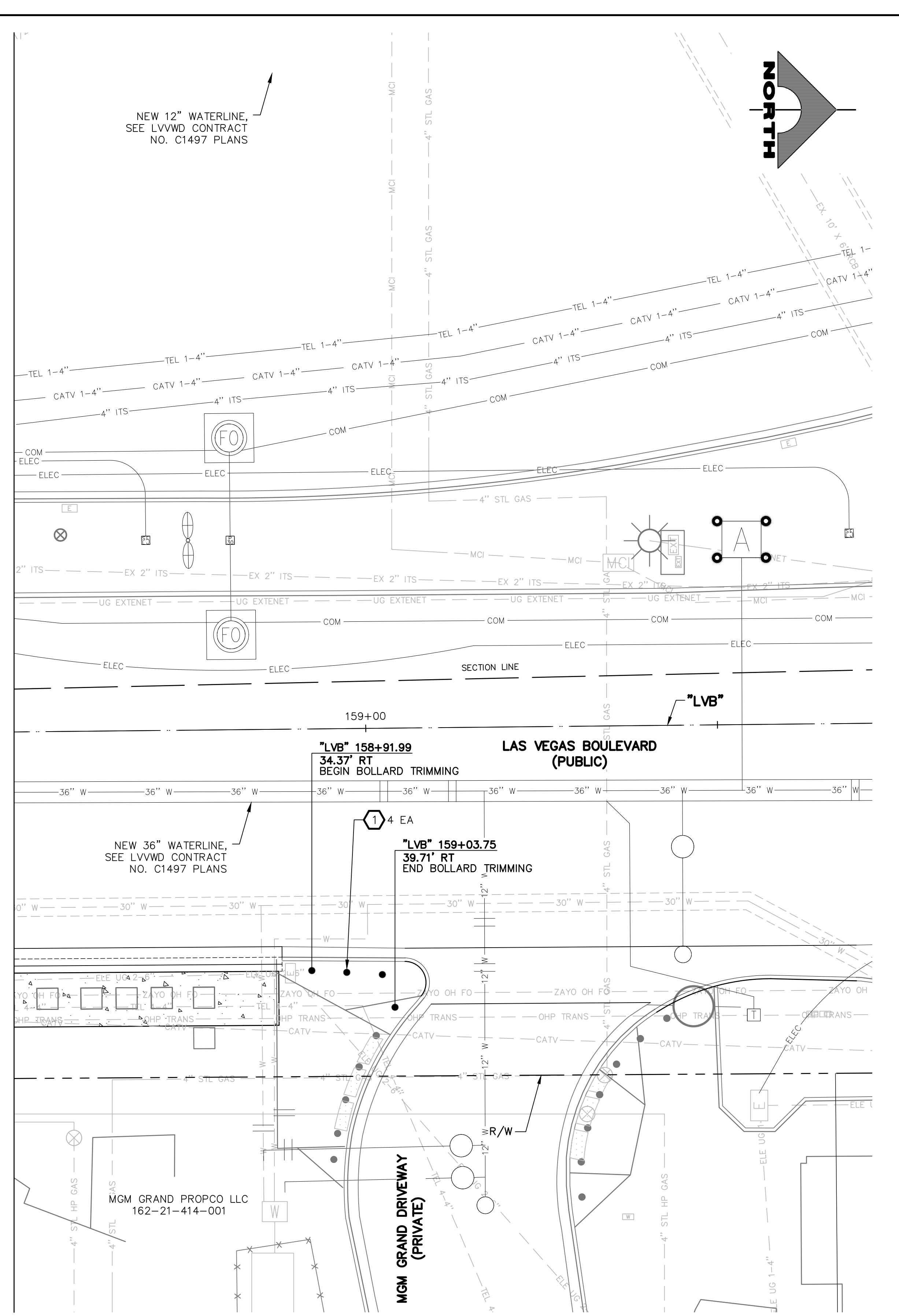
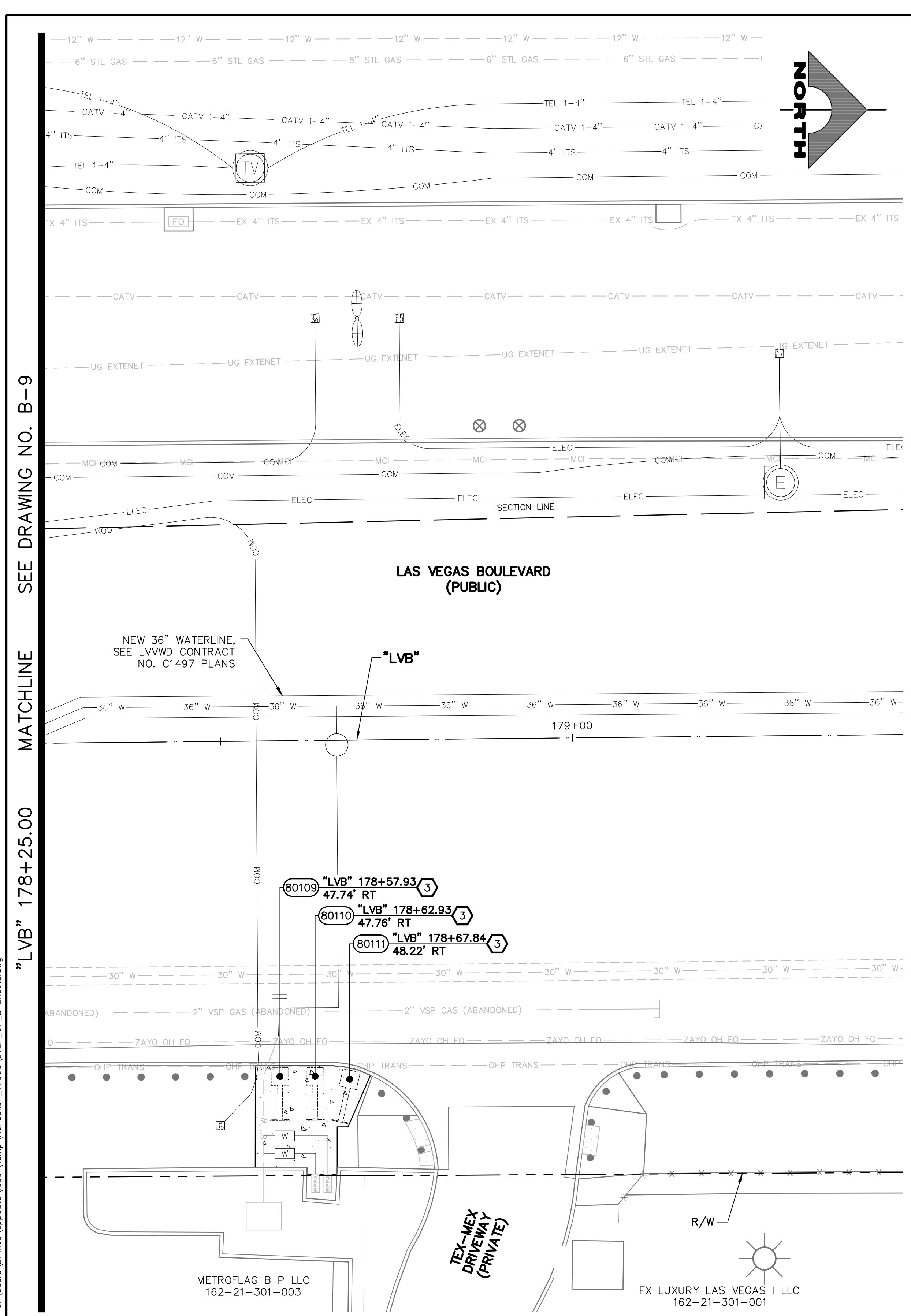
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-9
VERT: NONE	SHT. 52 OF 169
FIELD BOOK	L-2304

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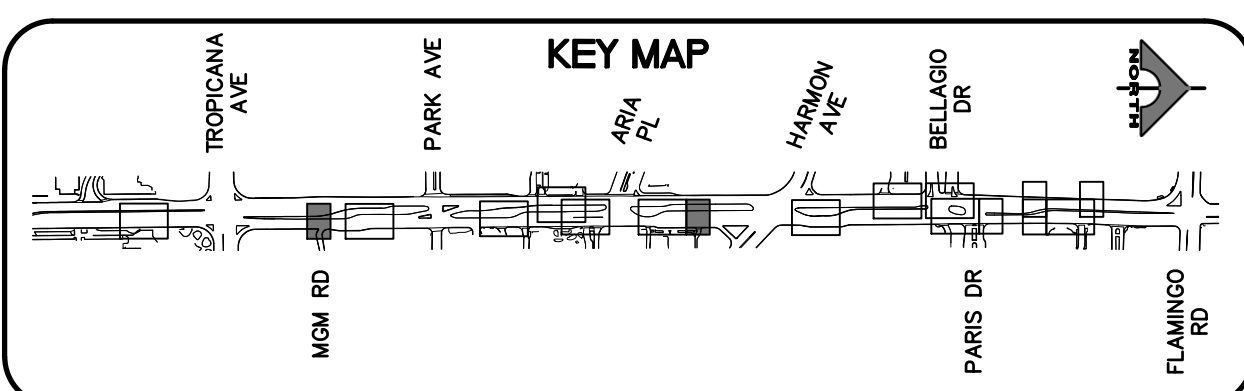
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**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

**PROFESSIONAL ENGINEER STATE OF NEVADA**

**WILLIE L. FELKINS**

Exp. 6/30/2023

CIVIL

No. 19653

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

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS

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

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO. **B-10**

SHT. 53 OF 169

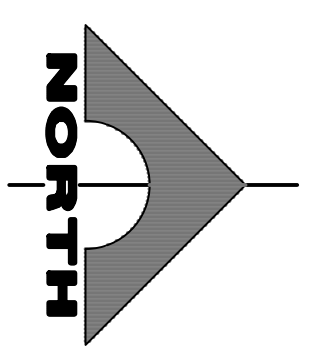
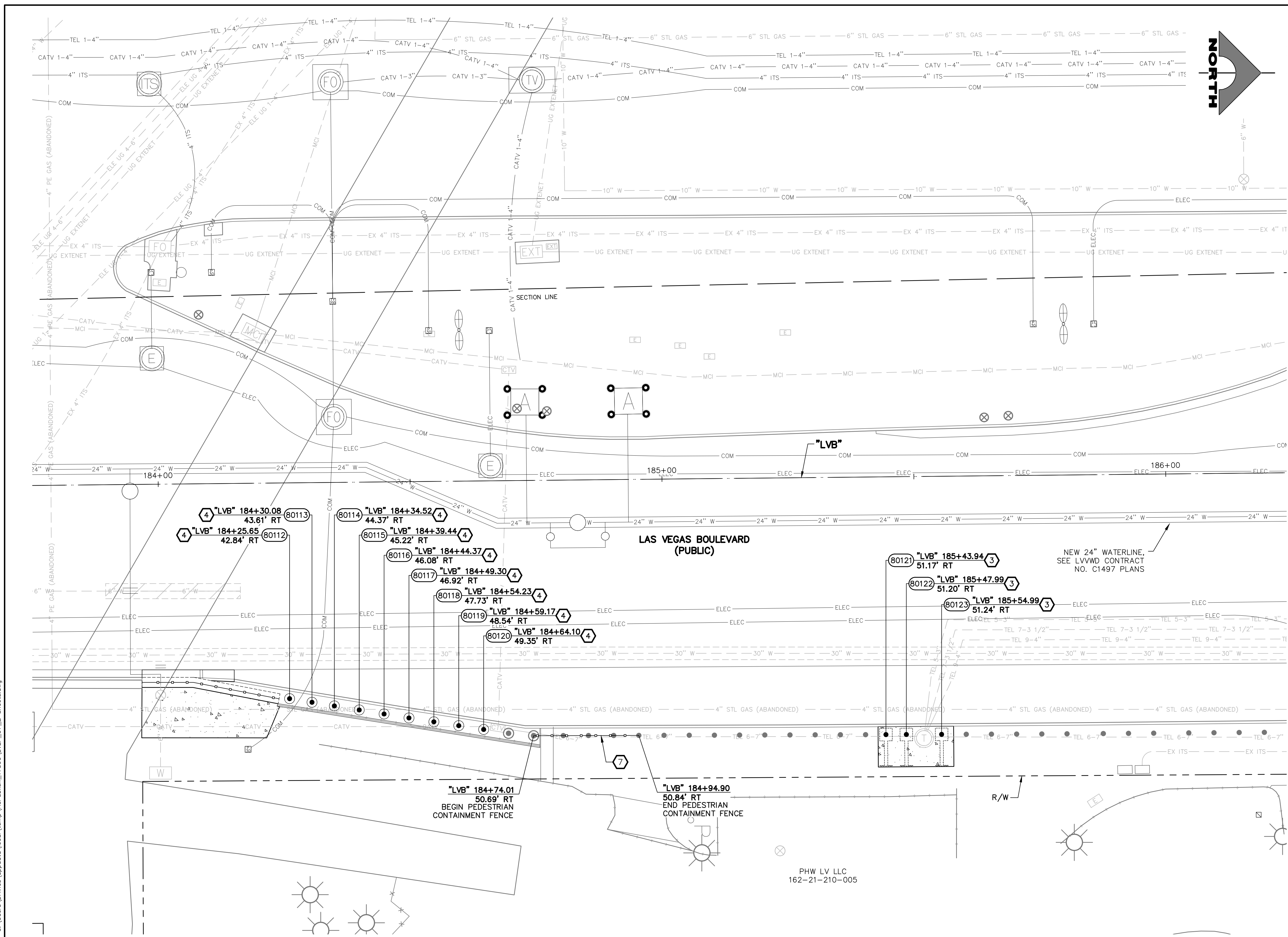
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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**APPROVED FOR CONSTRUCTION**

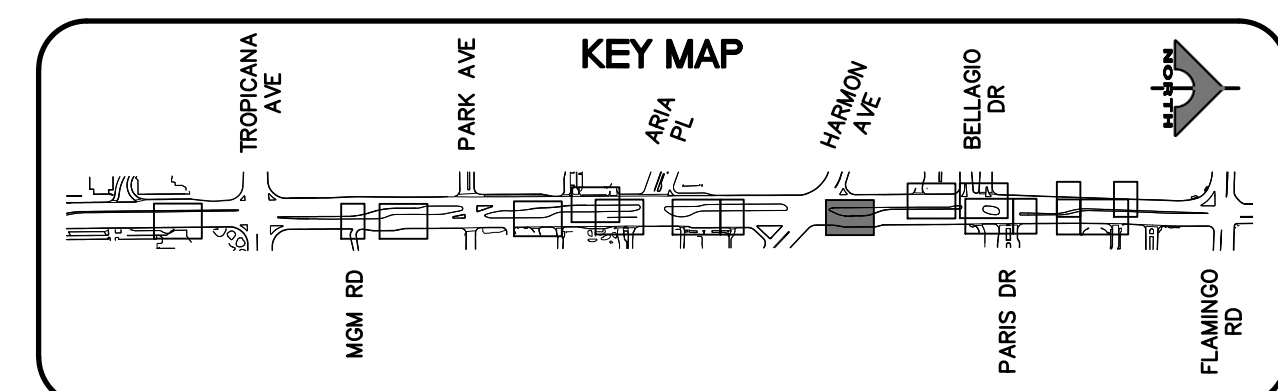
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

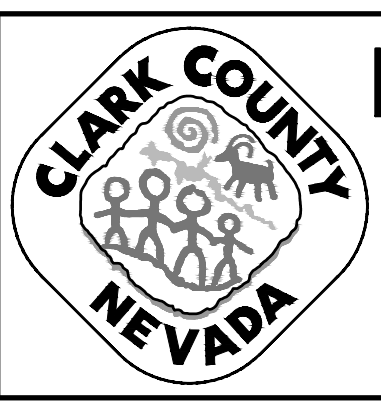
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

**FROM BOLLARD 8012 TO 80123**

ALL BOLLARDS SHALL BE POWDER COATED RAL9005



REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

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

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



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

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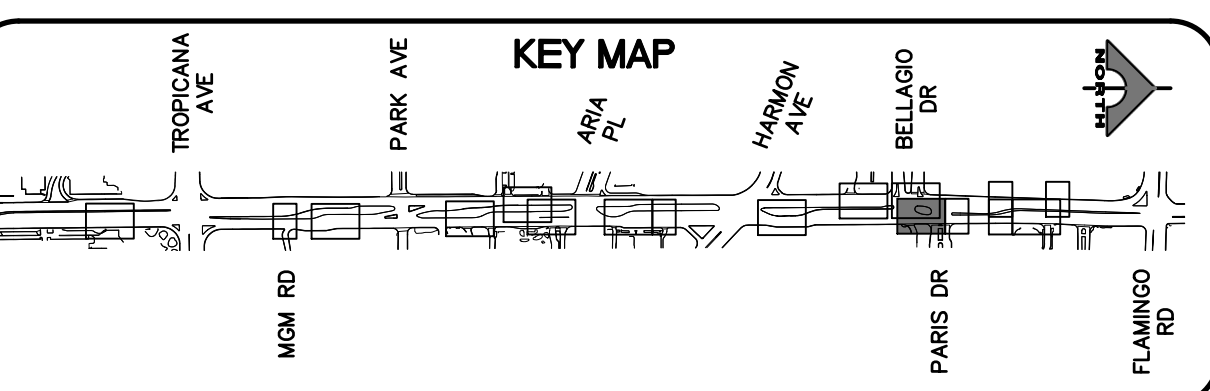
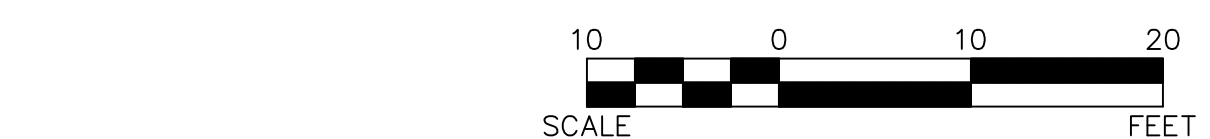
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

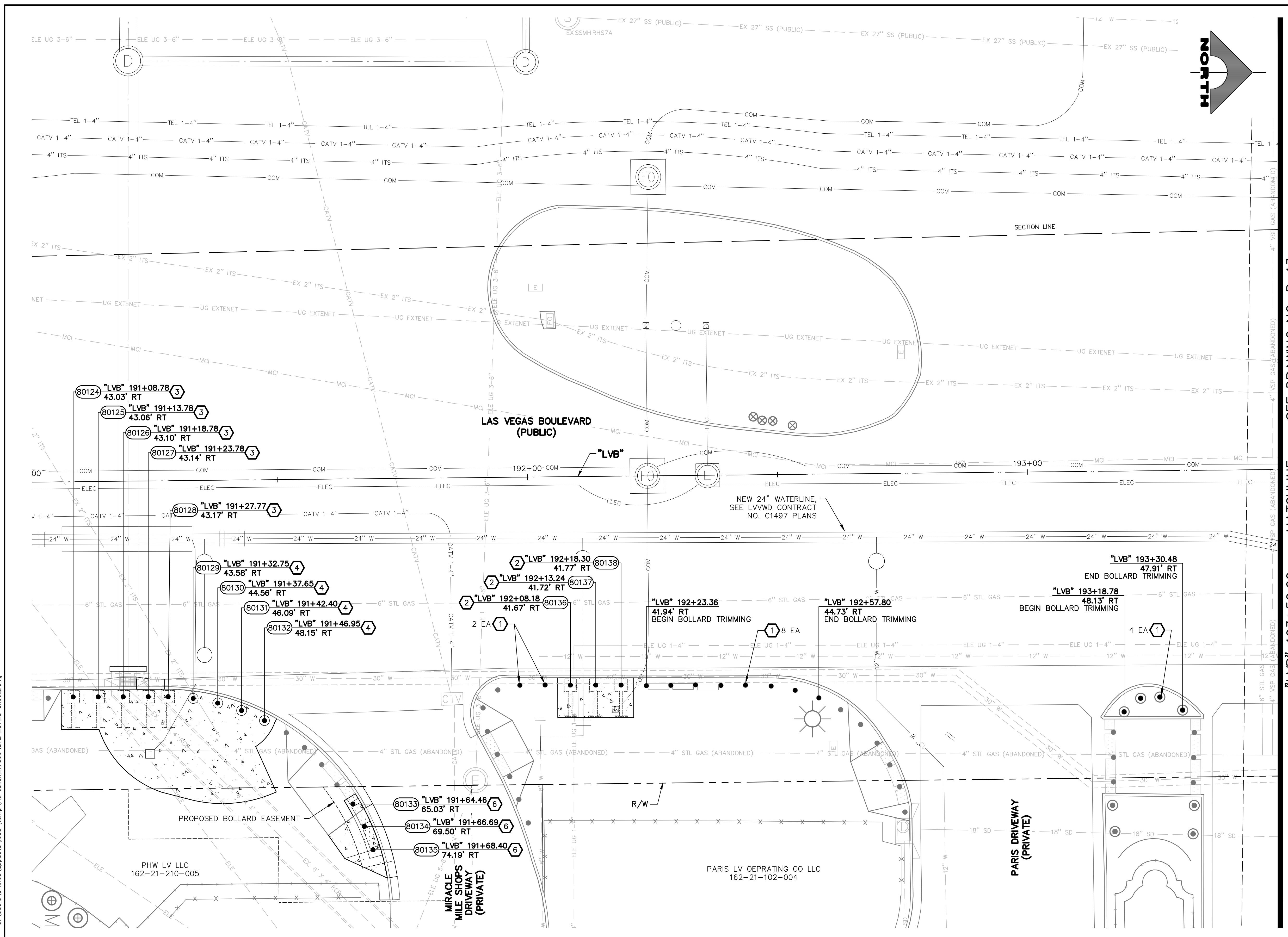
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

**FROM BOLLARD 80124 TO 80138**

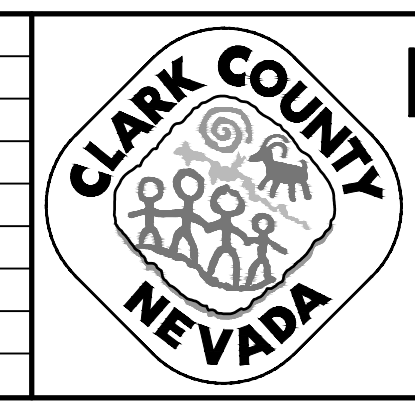
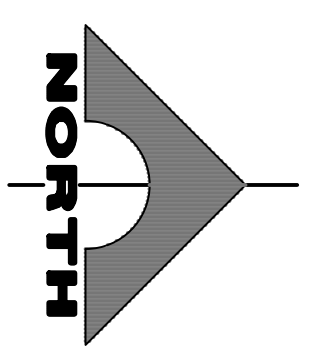
ALL BOLLARDS SHALL BE POWDER COATED RAL9005



PROJECT No: 500-897-LV-EF	DRAWN BY: TAA	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	B-12
APPROVED BY: _____	1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com	VERT: NONE	SHT. 55 OF 169
		FIELD BOOK	L-2304



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



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

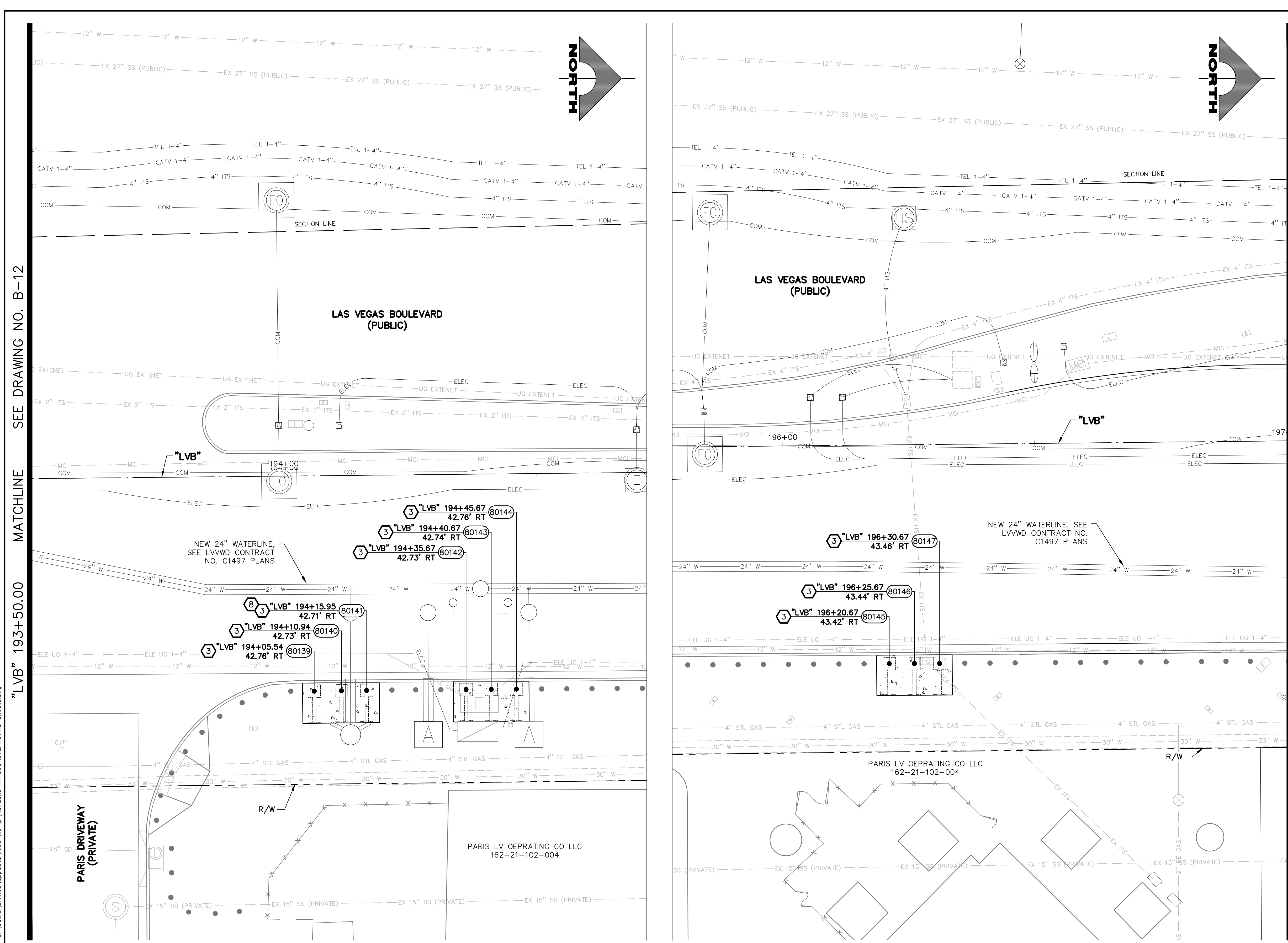


REV. NO.	DATE	DESCRIPTION	APPROVED

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 dhrines

BID NO.: 605978-21





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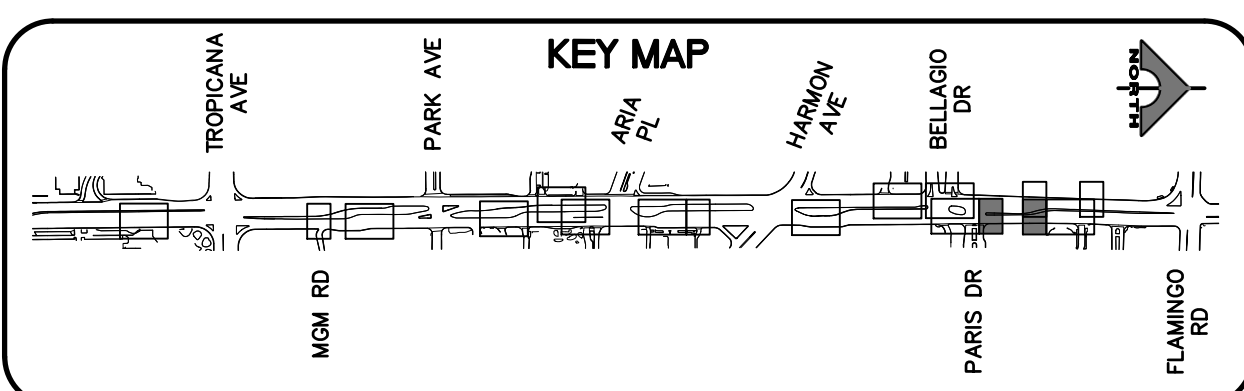
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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

**FROM BOLLARD 80139 TO 80147**

ALL BOLLARDS SHALL BE POWDER COATED RAL9005



SEE DRAWING NO. B-12

MATCHLINE

"LVB" 193+50.00

SEE DRAWING NO. B-14

MATCHLINE

"LVB" 197+00.00

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**BOLLARD PLAN**

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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T: 702.804.2000  
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SCALE	DRAWING NO.
HORIZ: AS SHOWN	B-13
VERT: NONE	SHT. 56 OF 169
FIELD BOOK	L-2304

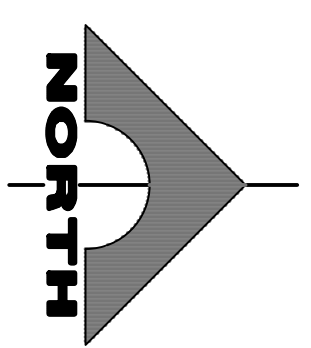
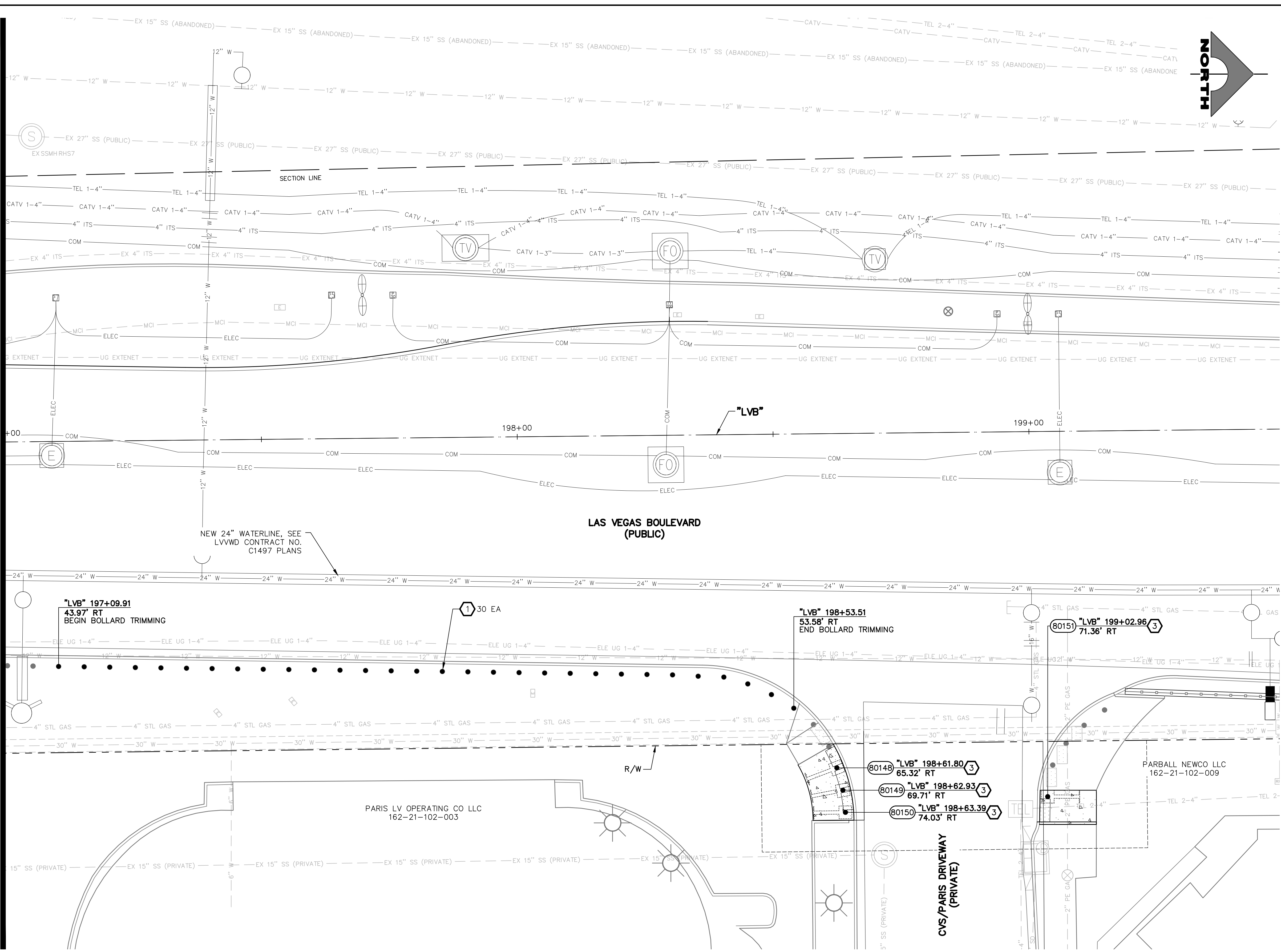
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



10-15-21 11:19:42 C:\Users\Drines\Documents\Local\Temp\AcPublish\17560\LVF\_07\_B\_Sheets.dwg

SEE DRAWING NO. B-13 MATCHLINE

"LVB" 197+00.00



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  - 4 INSTALL 48-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 5 INSTALL 52-INCH HEIGHT TRENCH BOLLARD (SEE DETAIL B, DWG. DT-4)
  - 6 INSTALL 48-INCH HEIGHT REMOVABLE BOLLARD (SEE DETAIL A, DWG. DT-4)
  - 7 INSTALL PEDESTRIAN CONTAINMENT FENCE (SEE DETAIL A, DWG. DT-6)
  - 8 INSTALL BLUE REFLECTIVE BANDS AT BASE OF BOLLARD (SEE DETAIL A, DWG. DT-1)
  - 9 INSTALL 36-INCH DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - 10 INSTALL 48-INCH T-BOLLARD (SEE DETAIL A, DWG. DT-9)
  - 11 INSTALL 52-INCH HEIGHT SHALLOW MOUNT BOLLARD (SEE DETAIL A, DWG. DT-1 AND DETAIL A, DWG. DT-2)
  - 12 INSTALL 52-INCH HEIGHT DRILLED FOOTING BOLLARD (SEE DETAIL A, DWG. DT-3)
  - P PROTECT-IN-PLACE
- NOTES**
1. CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

**APPROVED FOR CONSTRUCTION**

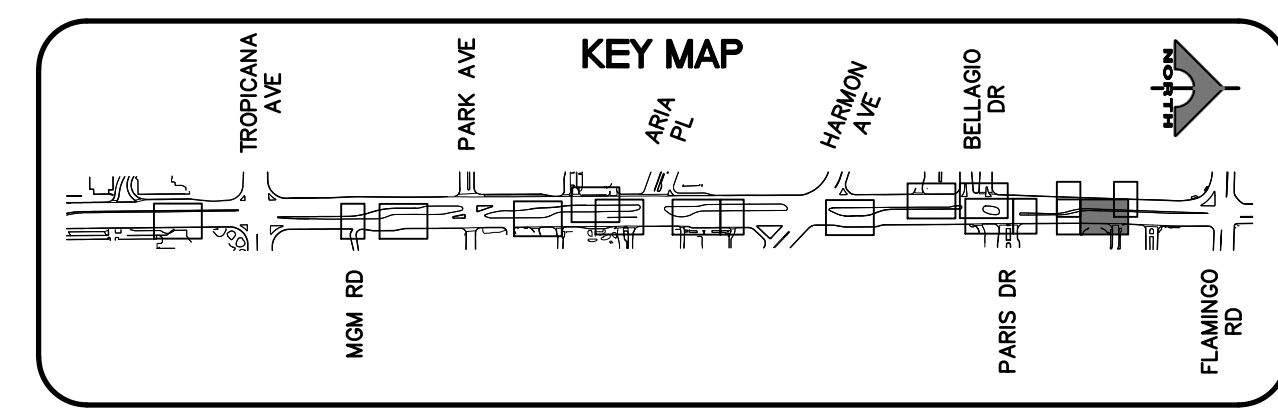
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**SOUTHWEST GAS VALVE NOTE**

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

**FROM BOLLARD 80148 TO 80150**

ALL BOLLARDS SHALL BE POWDER COATED RAL9005



REV. NO.	DATE	DESCRIPTION	APPROVED



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



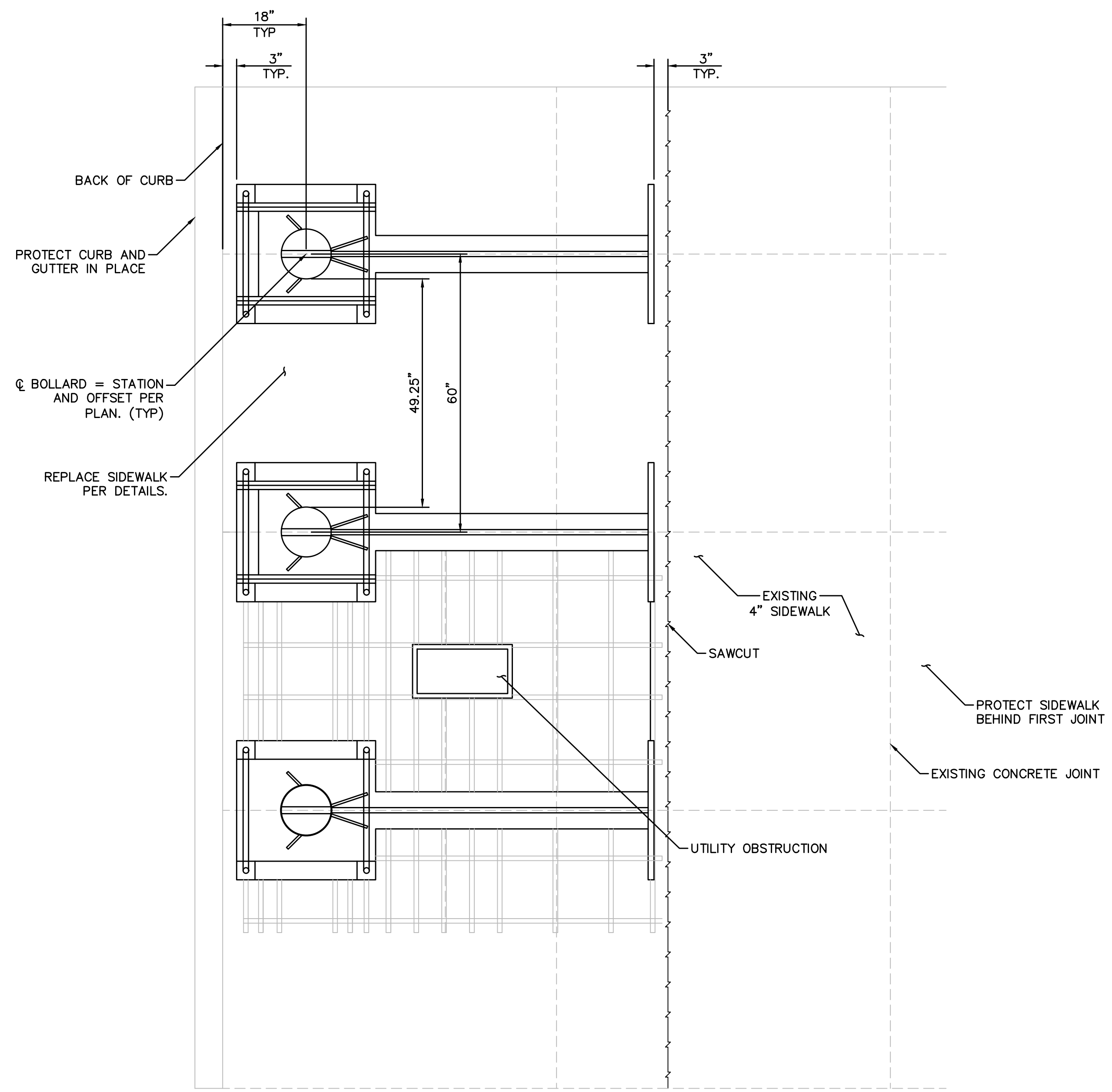
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcwengineering.com

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

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

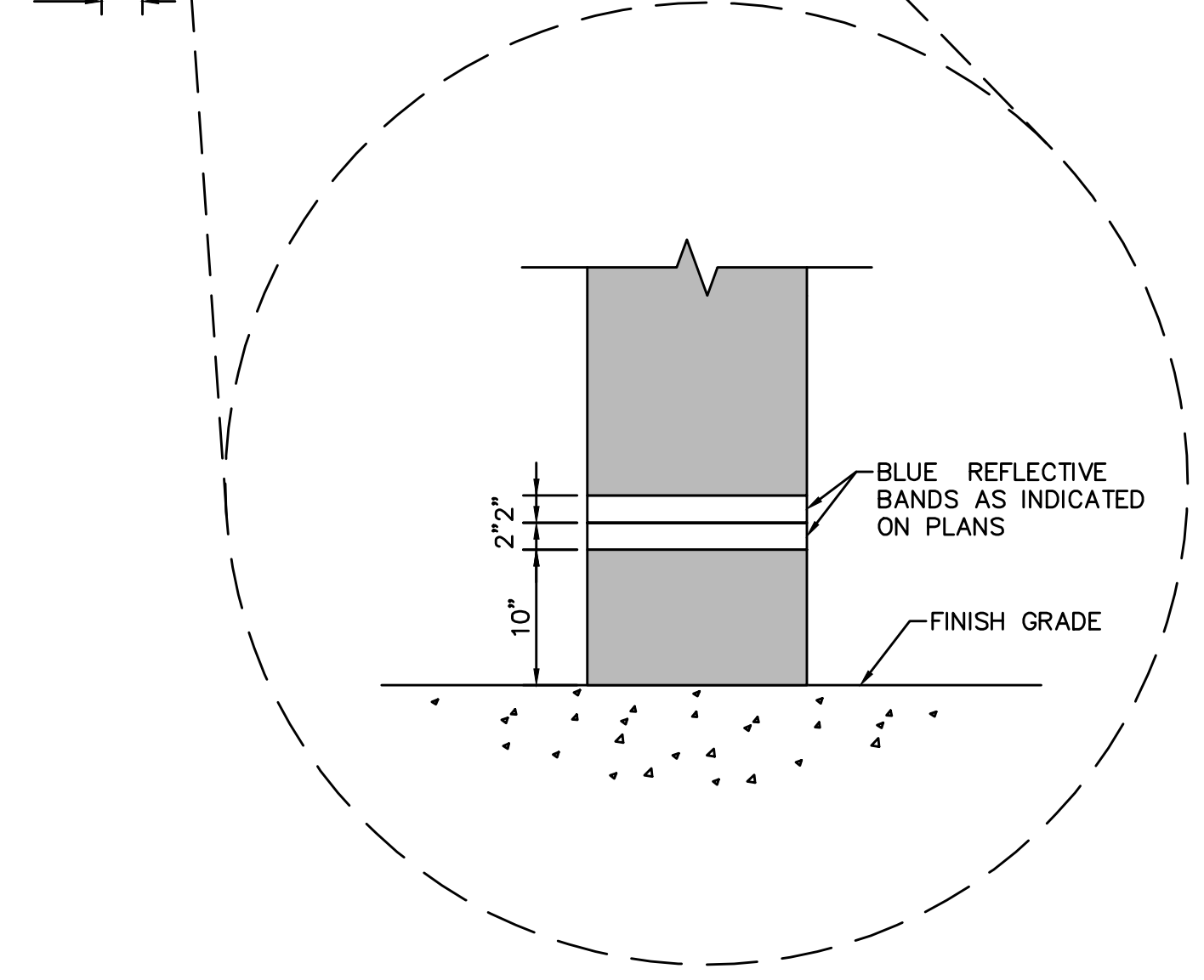
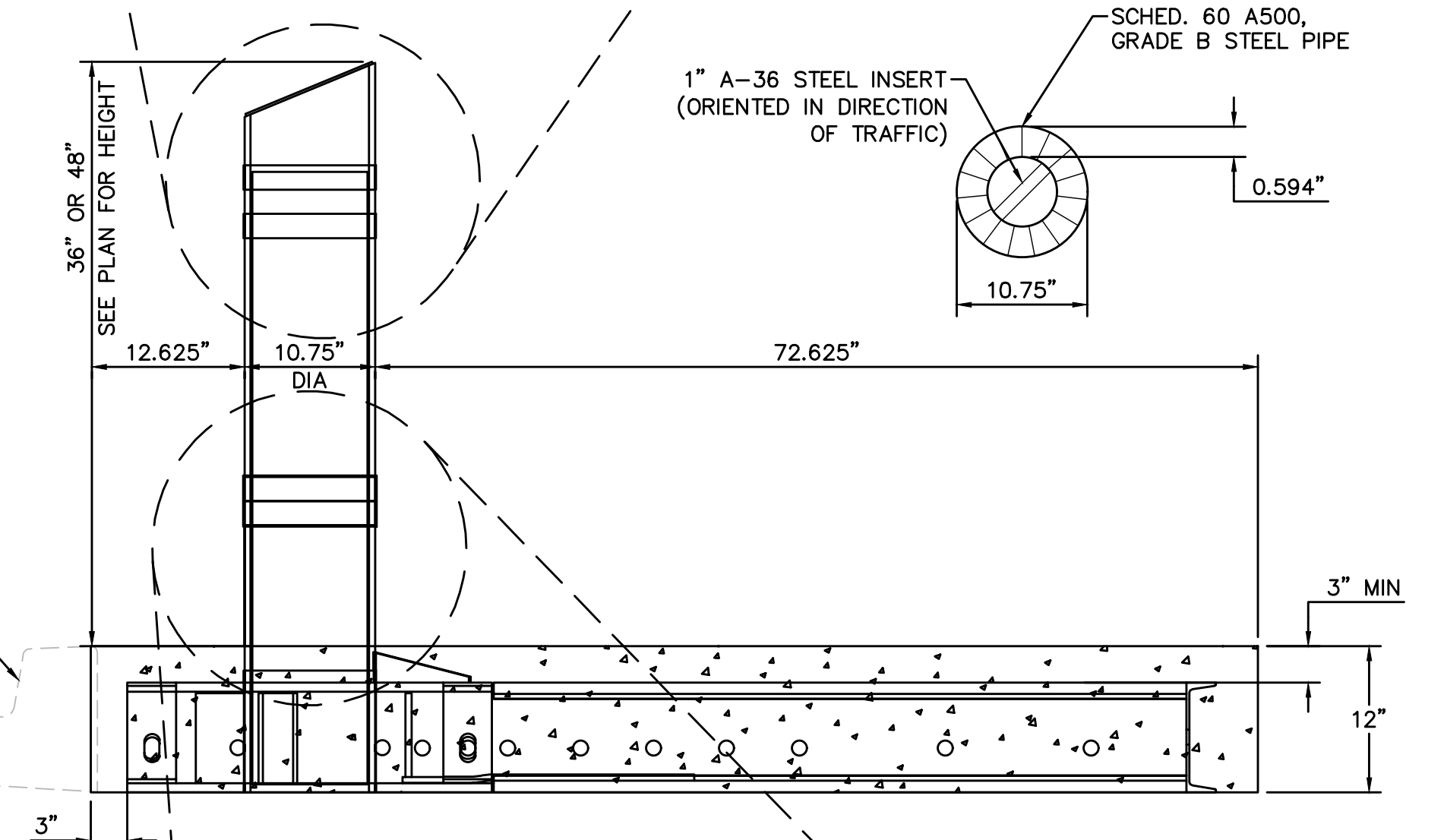
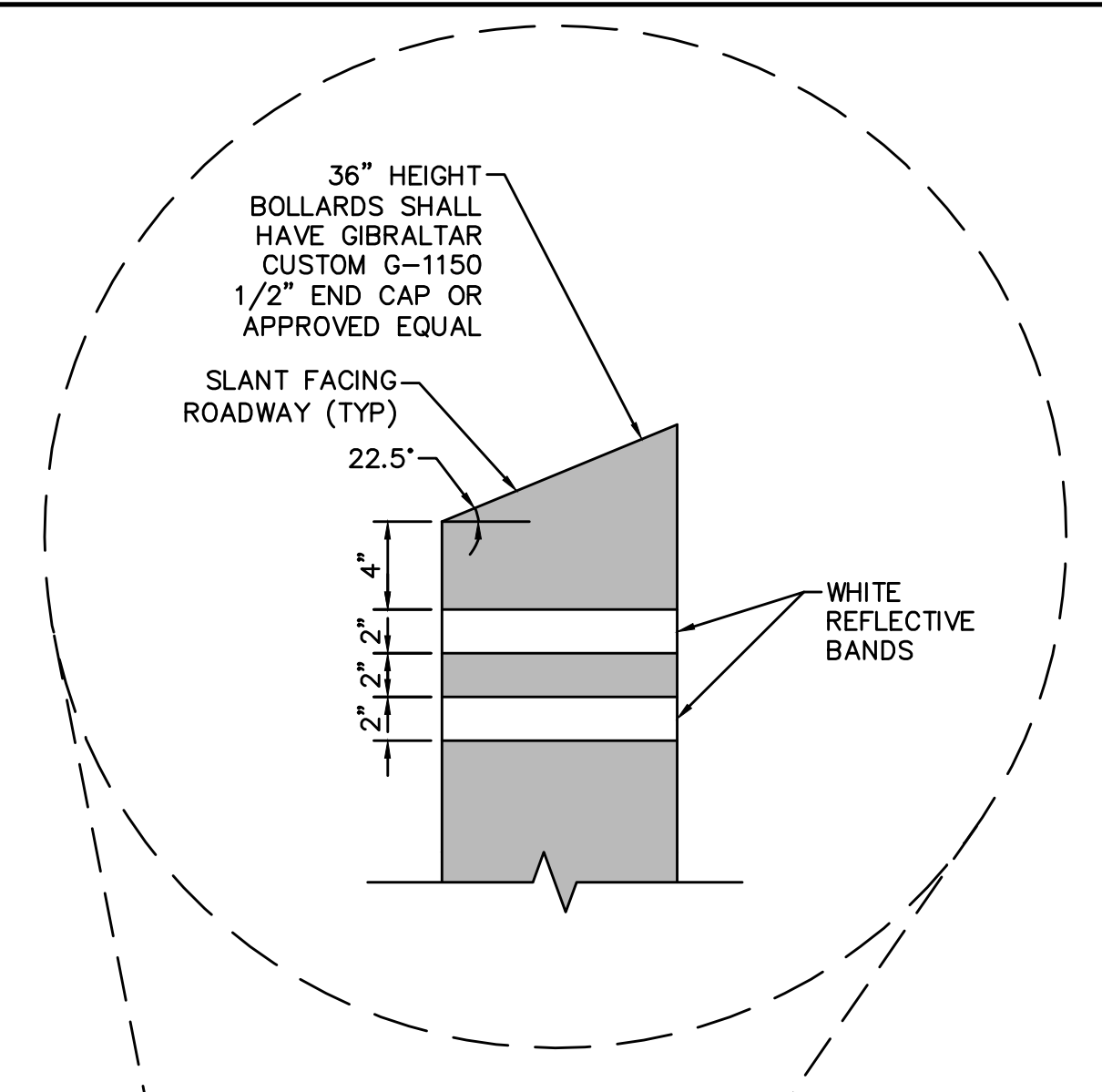


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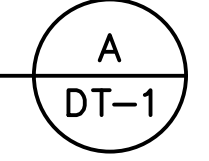


**NOTES:**

1. EACH BOLLARD SHALL BE POWDER COATED. COLOR - RAL6009 METALLIC UNLESS OTHERWISE NOTED.
2. WHITE AND BLUE REFLECTIVE BANDS SHALL BE ASTM D4956 TYPE IV/VI MICROPRISMATIC TAPE.
3. CAP STYLE SHALL BE SLOPED FACE OR APPROVED EQUAL. 36\"/>



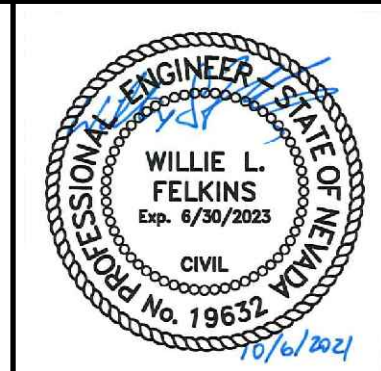
SHALLOW MOUNT BOLLARD  
TYPICAL INSTALLATION AND FINISH



REV. NO.	DATE	DESCRIPTION	APPROVED



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



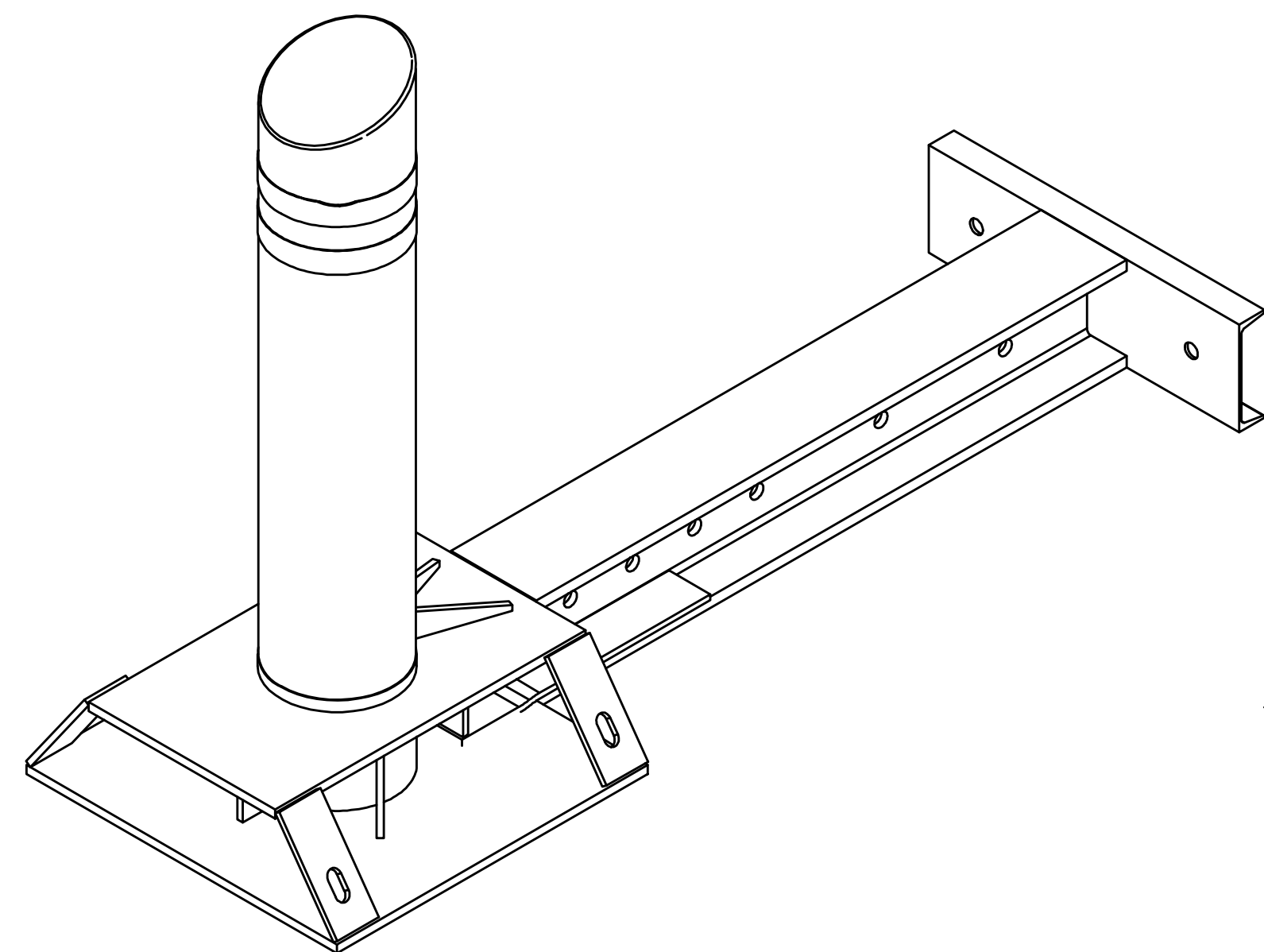
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY:

**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
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 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	DT-1
VERT: NONE	SHT. 58 OF 169
FIELD BOOK	L-2304

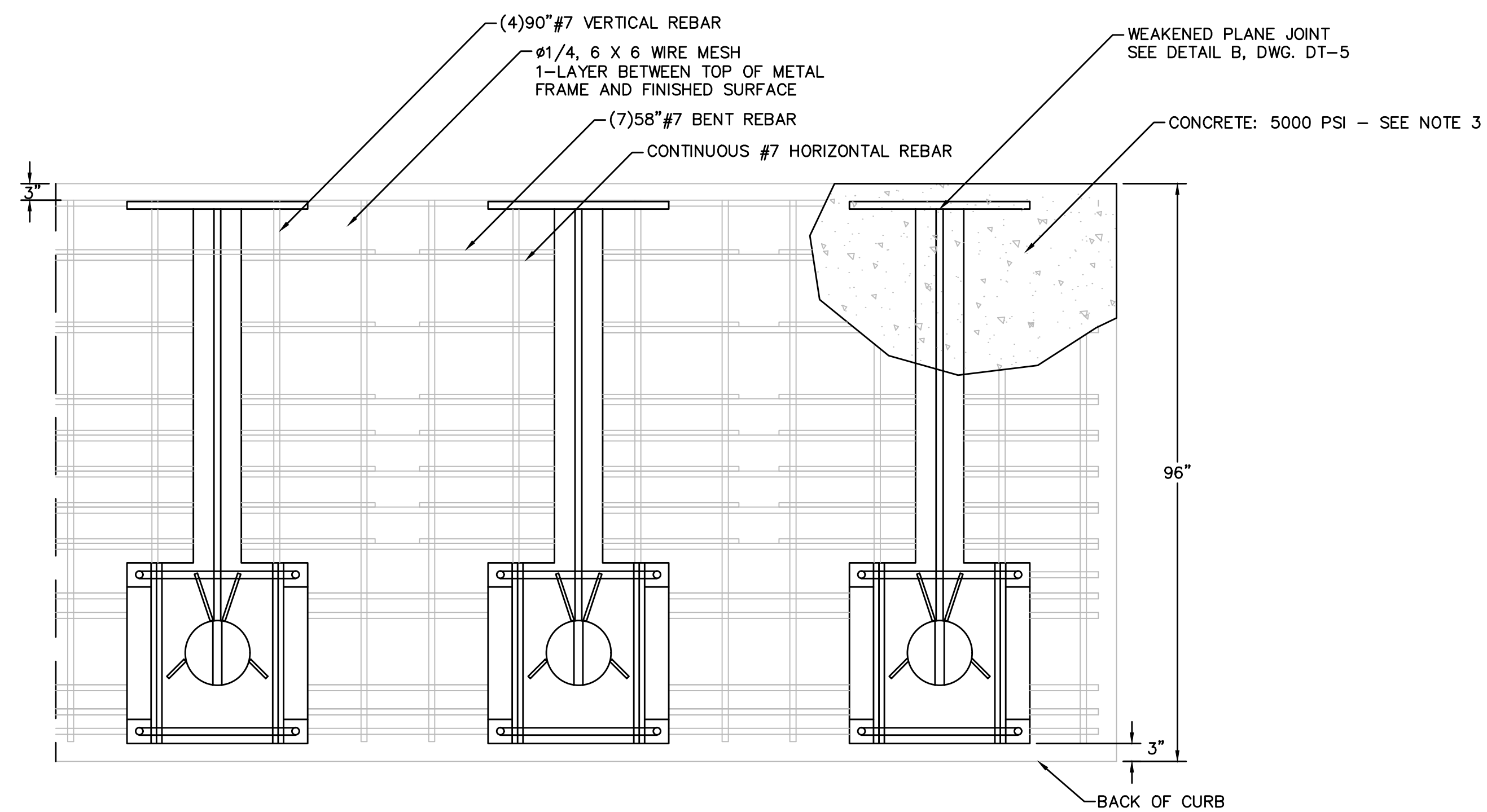
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



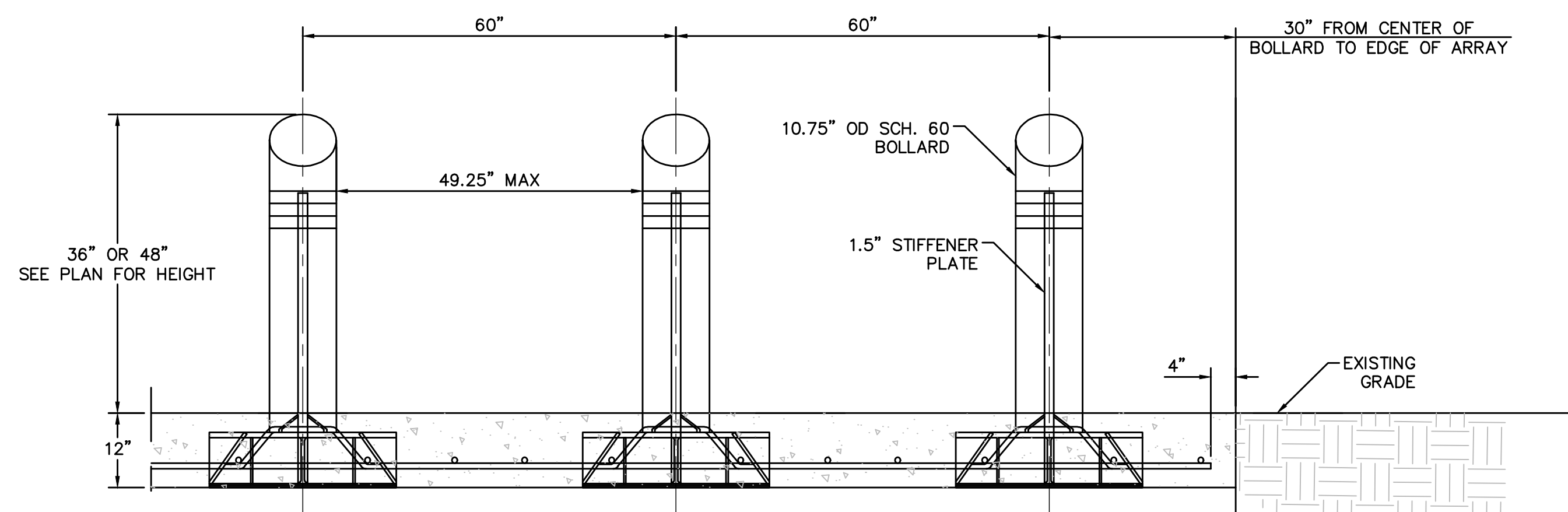


CAP STYLE

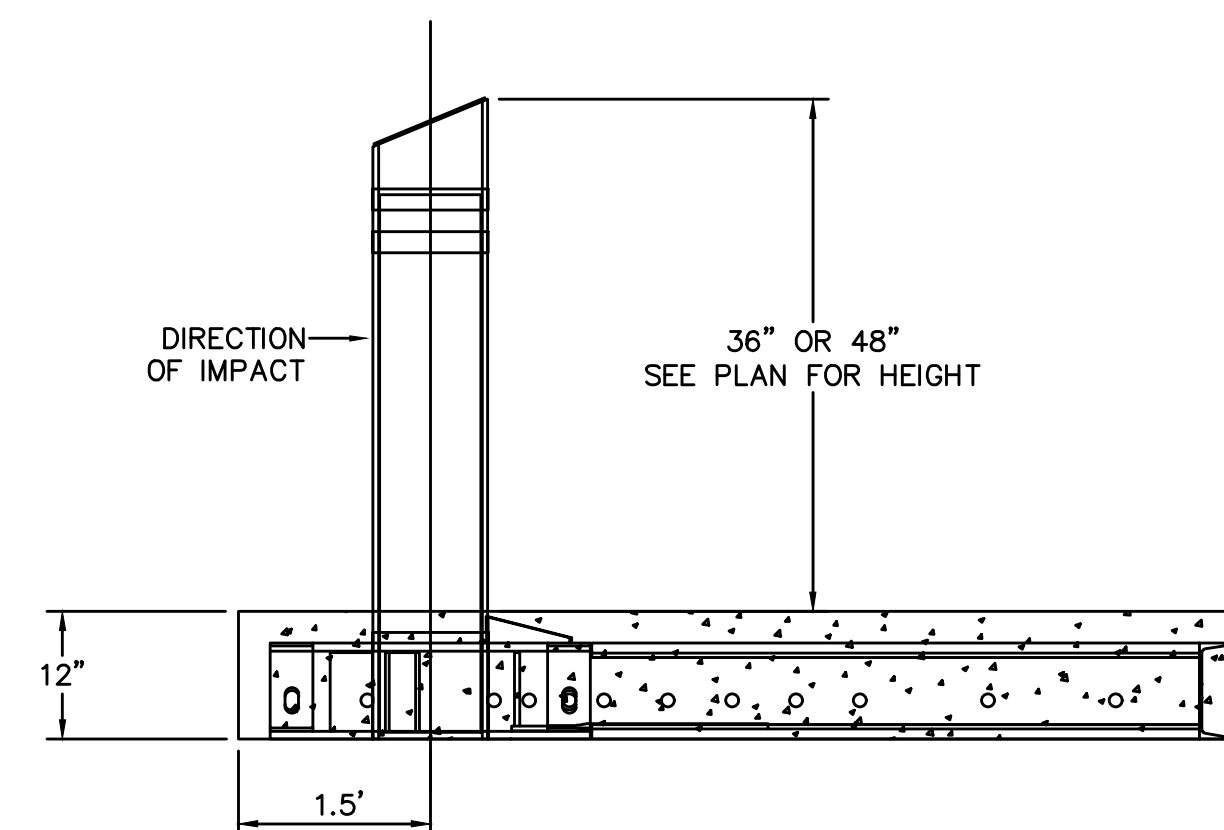
CAP SHALL BE MONOLITHIC WITH BOLLARD. 36" HEIGHT BOLLARDS SHALL HAVE GIBRALTAR CUSTOM G-1150 1/2" END CAP OR APPROVED EQUAL.



PLAN VIEW



ELEVATION VIEW

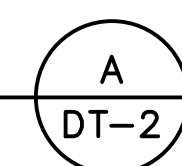


SIDE ELEVATION VIEW

NOTES:

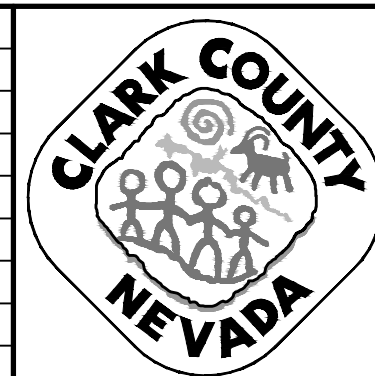
1. THE SHALLOW MOUNT DESIGN AS DETAILED ON THIS PLAN SHEET MEETS THE CRASH RATED REQUIREMENTS OF AN M50 P1 RATING. ALL APPROVED EQUAL SUBSTITUTIONS MUST MEET THESE REQUIREMENTS.
2. CONTRACTOR SHALL INSTALL BOLLARDS PER DIMENSIONS AND INSTALLATION REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS.
3. ALL FINISHED CONCRETE SIDEWALKS SHALL MATCH EXISTING ADJACENT SIDEWALKS INCLUDING COLOR, TEXTURE, JOINTING THICKNESS, AND FINISH.
4. ALL CONCRETE SHALL BE PER SPECIFICATION; MINIMUM 5000 PSI WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.45.
5. CONTINUE BOLLARD AND REBAR PATTERN FOR LONGER ARRAY INSTALLATION.

SHALLOW MOUNT BOLLARD  
 INSTALLATION DETAILS



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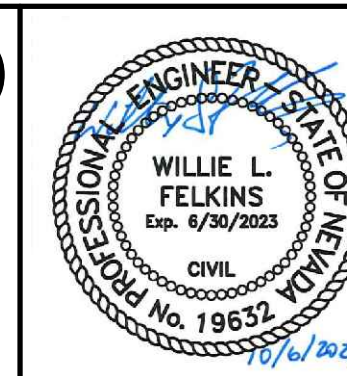
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

CONSTRUCTION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



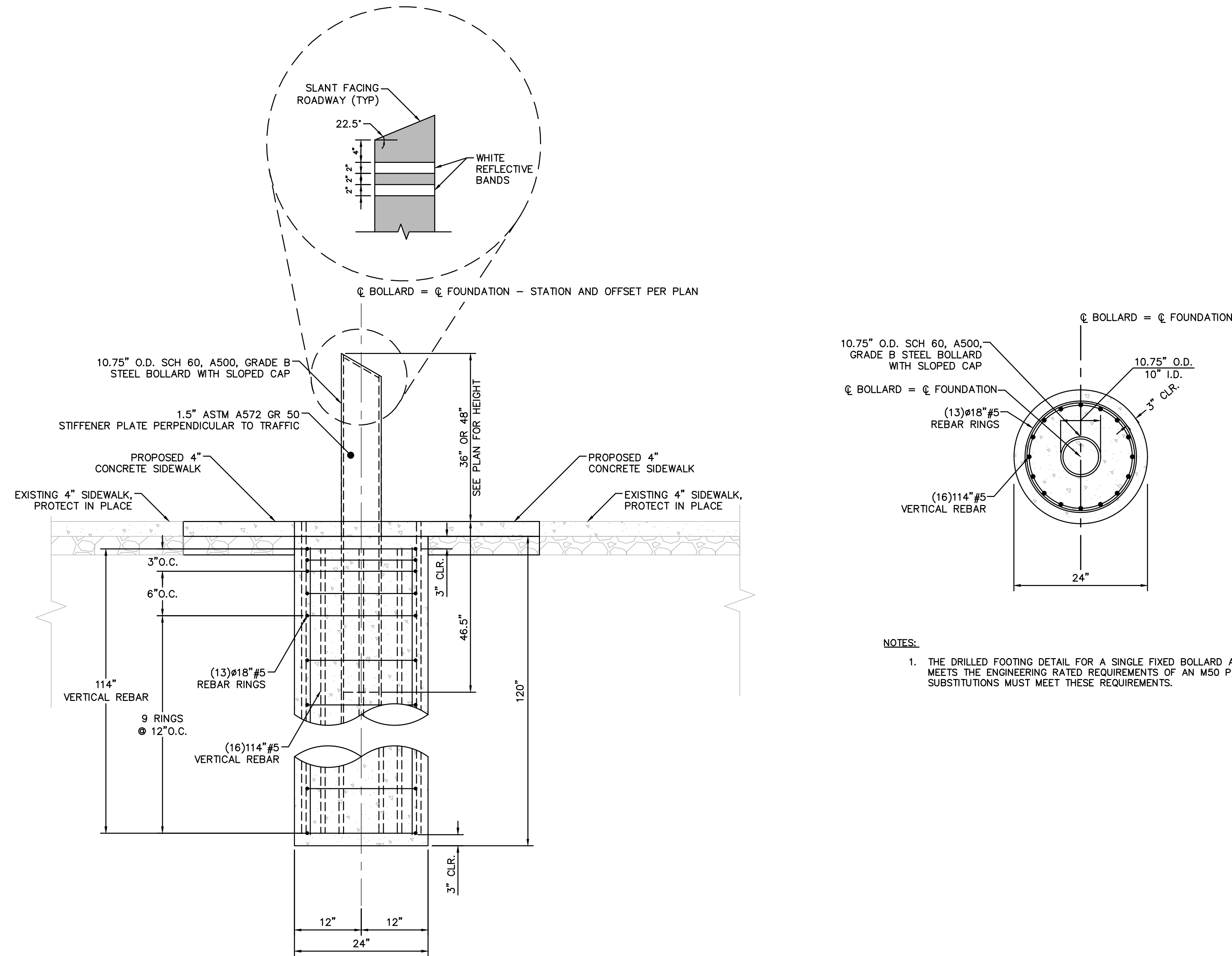
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
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SCALE	DRAWING NO.
HORIZ: NONE	DT-2
VERT: NONE	SHT. 59 OF 169
FIELD BOOK	L-2304

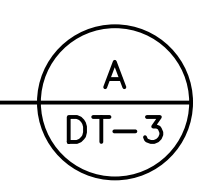
BID NO.: 603978-21





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

DRILLED FOOTING BOLLARD  
 INSTALLATION DETAILS



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REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

CONSTRUCTION DETAILS

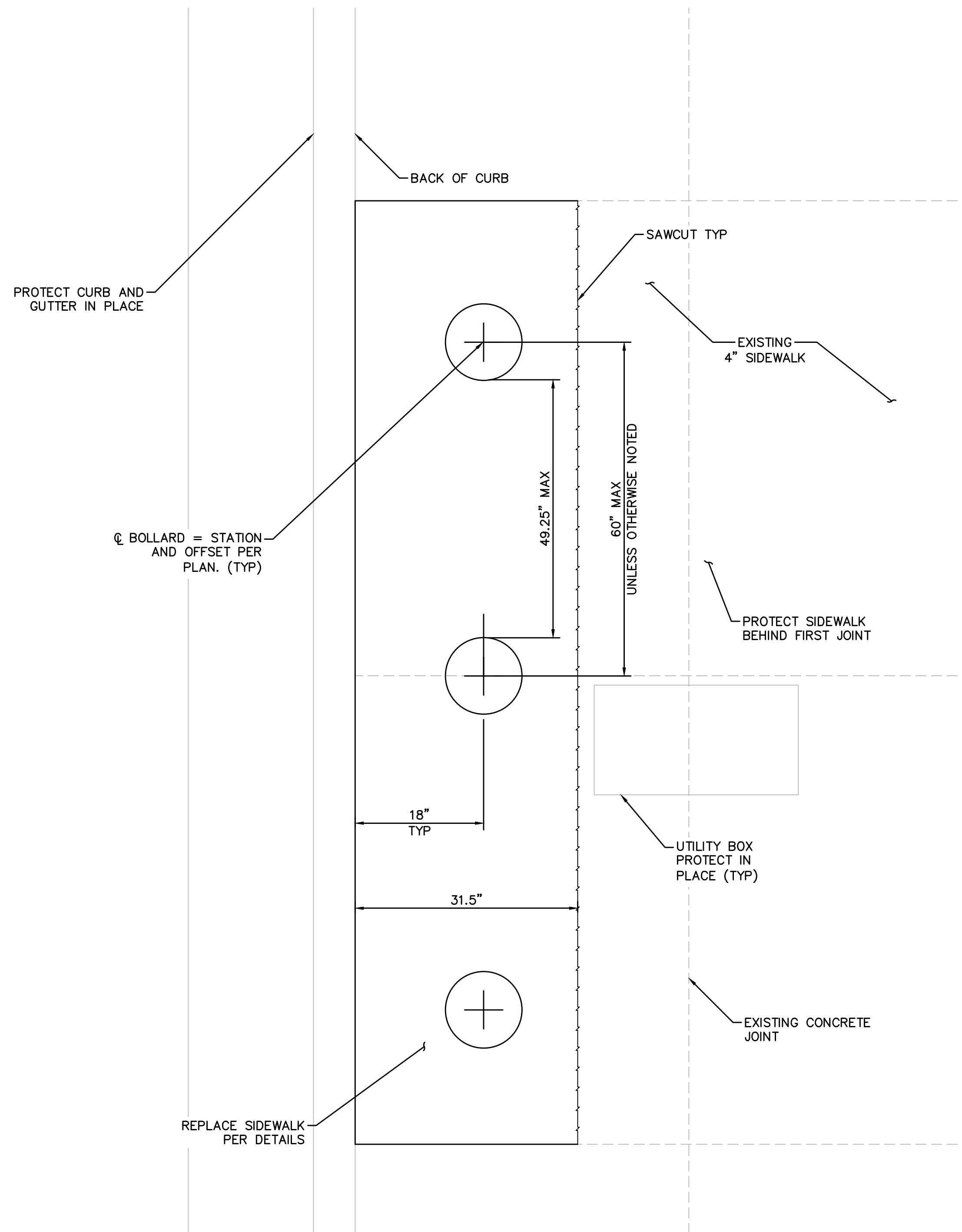
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF	DRAWN BY: TAA	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: NONE	<b>DT-3</b>
APPROVED BY:		VERT: NONE	
		FIELD BOOK	SHT. 60 OF 169
			L-2304

**GCV**  
ENGINEERS \ SURVEYORS

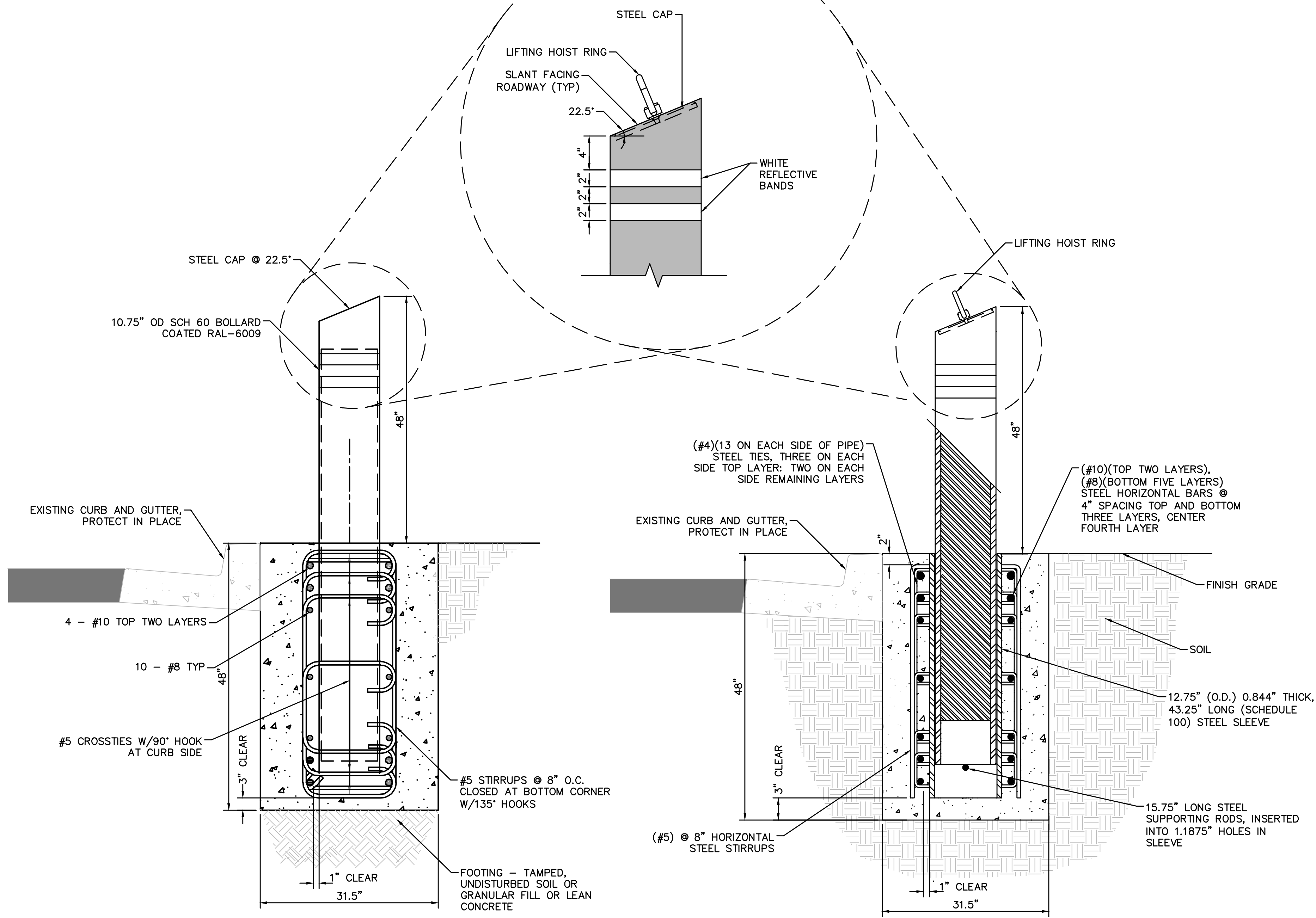
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com





TRENCH AND REMOVABLE BOLLARD PLAN VIEW

- NOTES:**
1. EACH BOLLARD SHALL BE POWDER COATED, COLOR - RAL6009 METALLIC UNLESS OTHERWISE NOTED.
  2. WHITE REFLECTIVE BANDS SHALL BE ASTM D4956 TYPE IV/VI MICROPRISMATIC TAPE.
  3. CAP STYLE SHALL BE SLOPED FACE OR APPROVED EQUAL.
  4. ALL CONCRETE SHALL BE PER SPECIFICATION: MINIMUM 5000 PSI WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.45.



TRENCH BOLLARD  
TYPICAL INSTALLATION AND FINISH

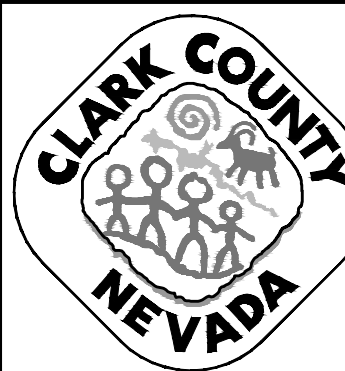
B  
DT-4

REMOVABLE BOLLARD  
TYPICAL INSTALLATION AND FINISH

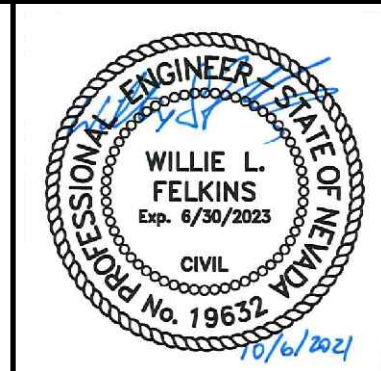
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DT-4

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REV. NO.	DATE	DESCRIPTION	APPROVED



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



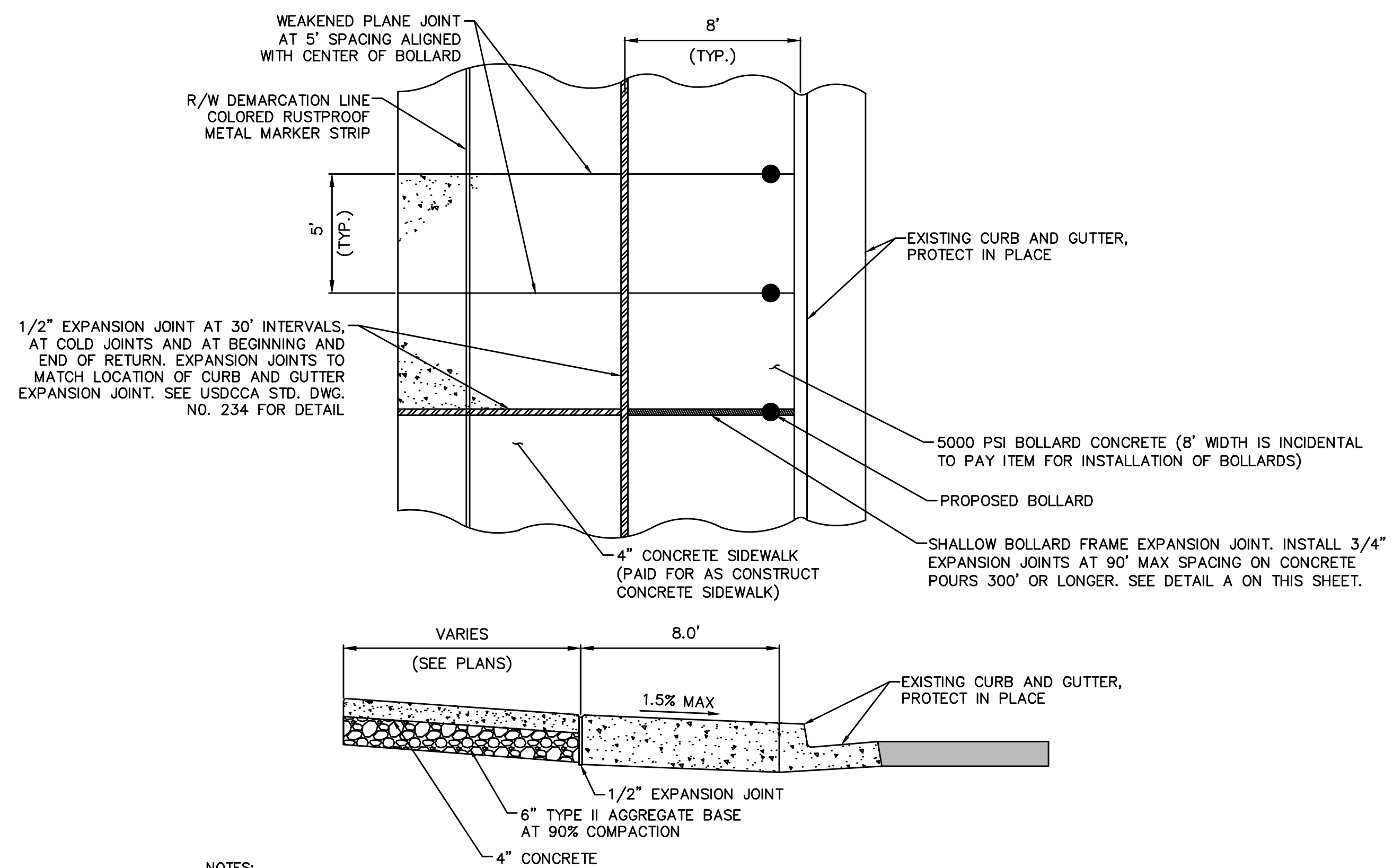
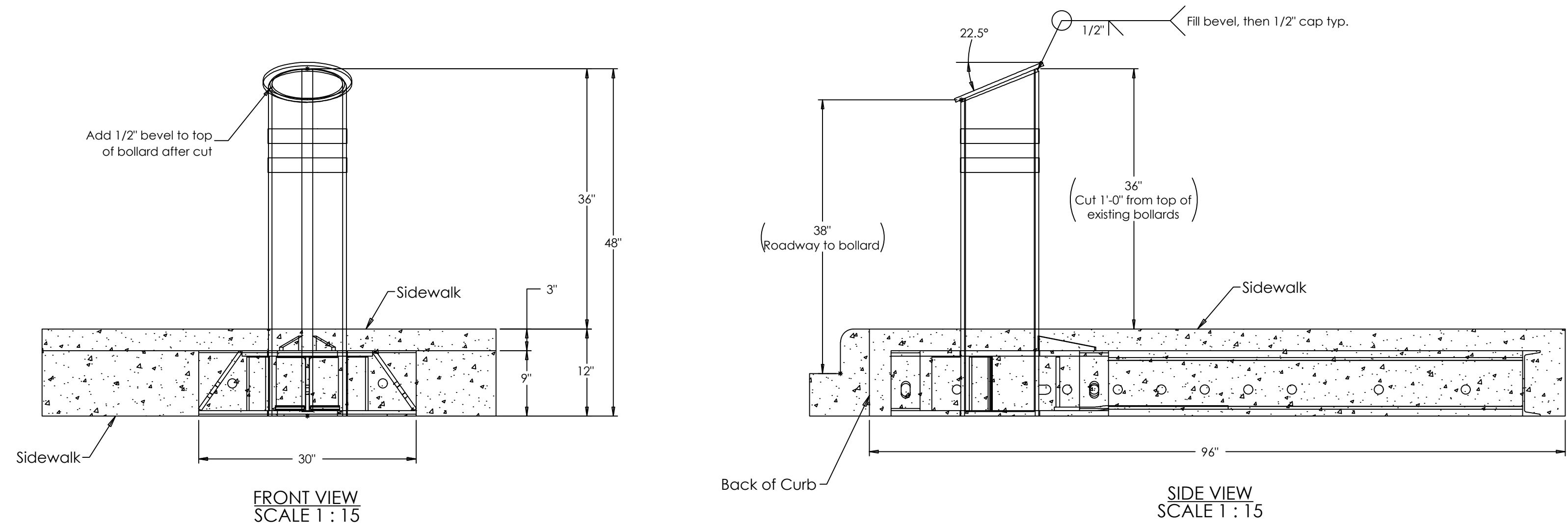
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS  
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SCALE	HORIZ: NONE	VERT: NONE	FIELD BOOK
DRAWING NO.	DT-4		
SHT.	61 OF 169		
L-2304			

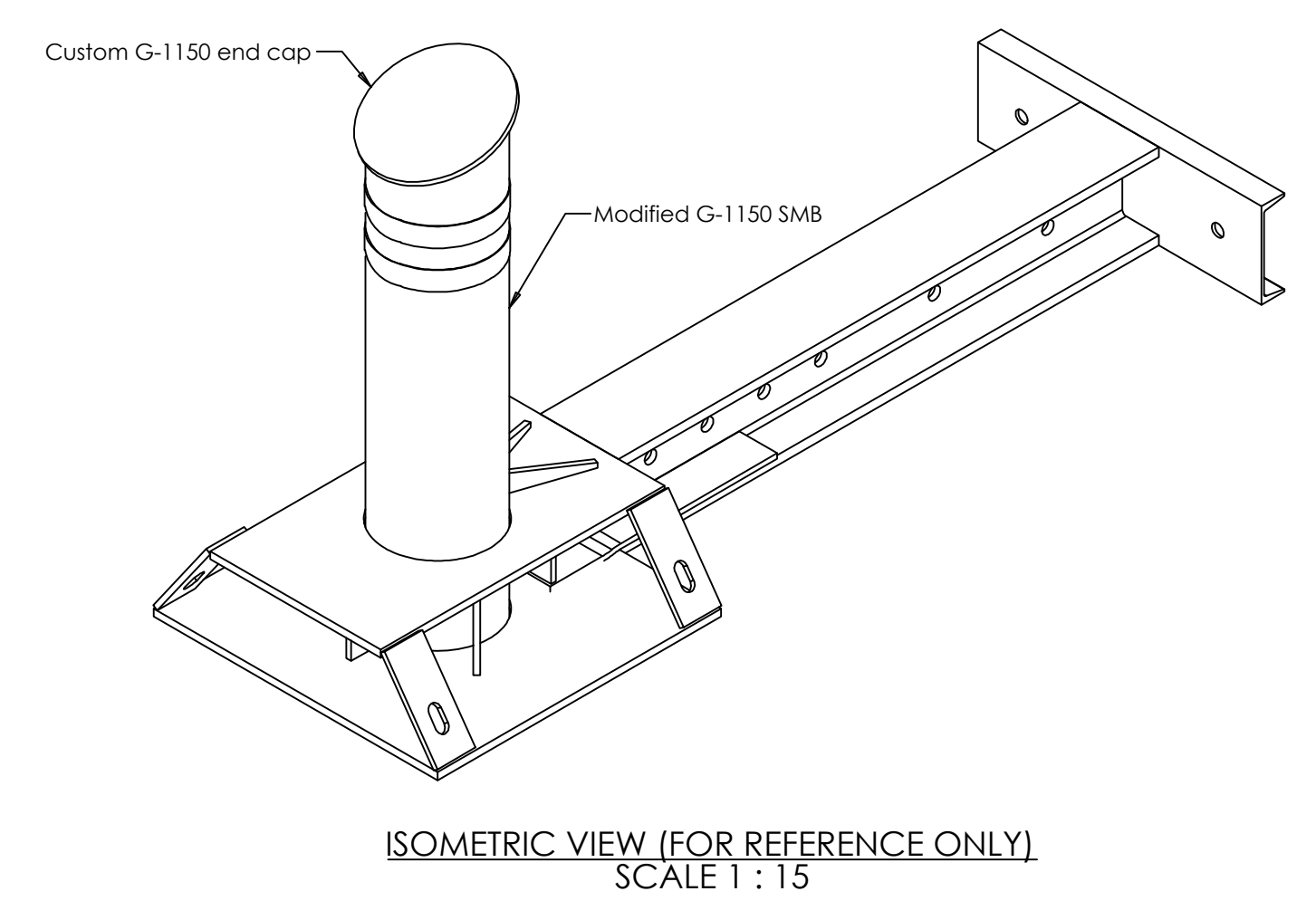
BID NO.: 603978-21



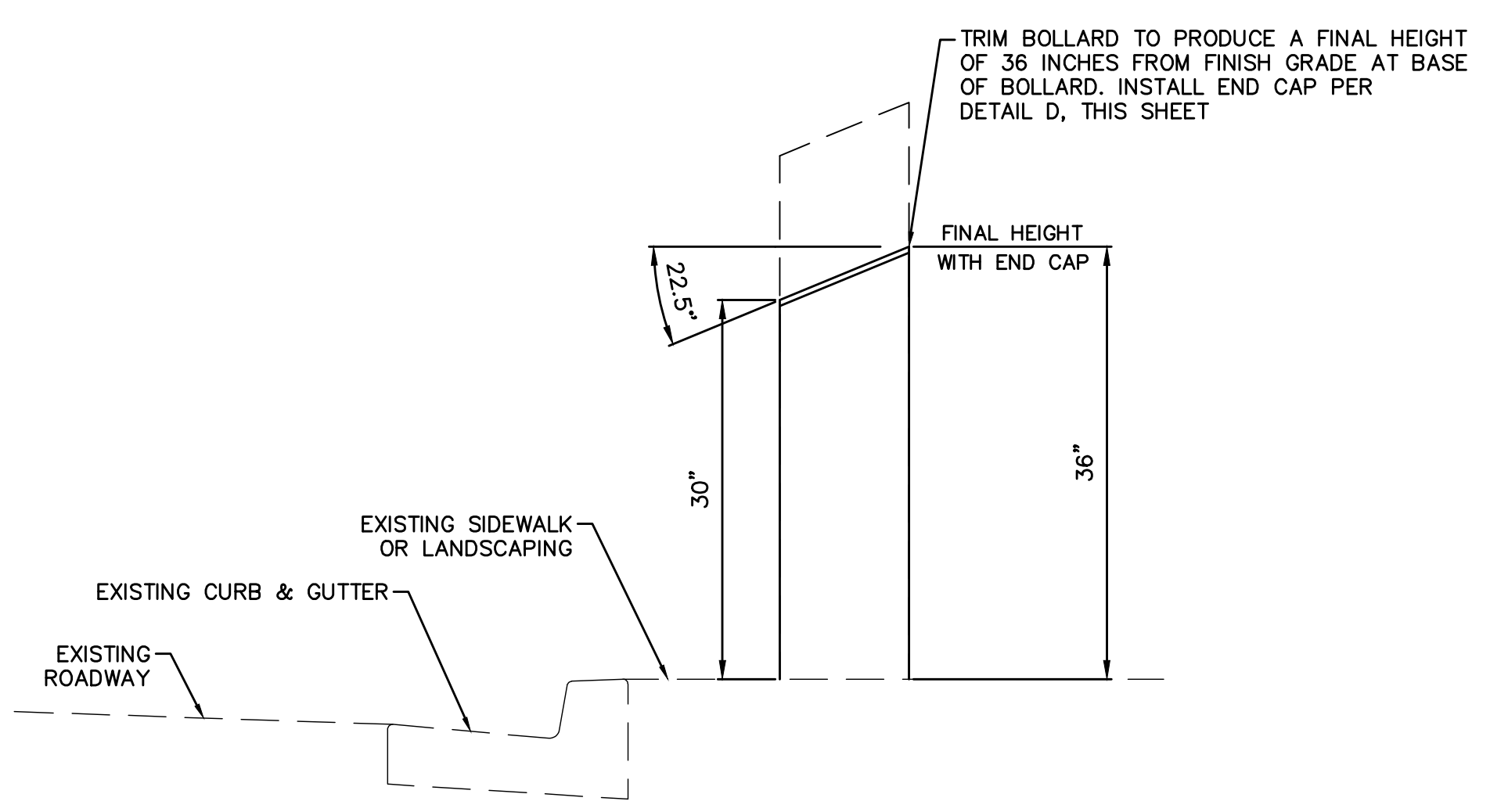


- NOTES:**
- ON ALL CURB RETURNS A 1/2" EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.
  - LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.
  - FILL AREAS SHALL BE NATIVE MATERIAL COMPACTED TO 90% OF MAX DENSITY. SUPPLEMENT WITH TYPE II AGGREGATE BASE AS NEEDED.
  - PAVEMENT SHALL BE 0" ABOVE PROPOSED CURB AND GUTTER.
  - WEAKENED PLANE JOINTS SHALL ALIGN WITH CENTER OF BOLLARD FOR BOTH THE 5000 PSI BOLLARD CONCRETE AND THE 4" CONCRETE SIDEWALK.

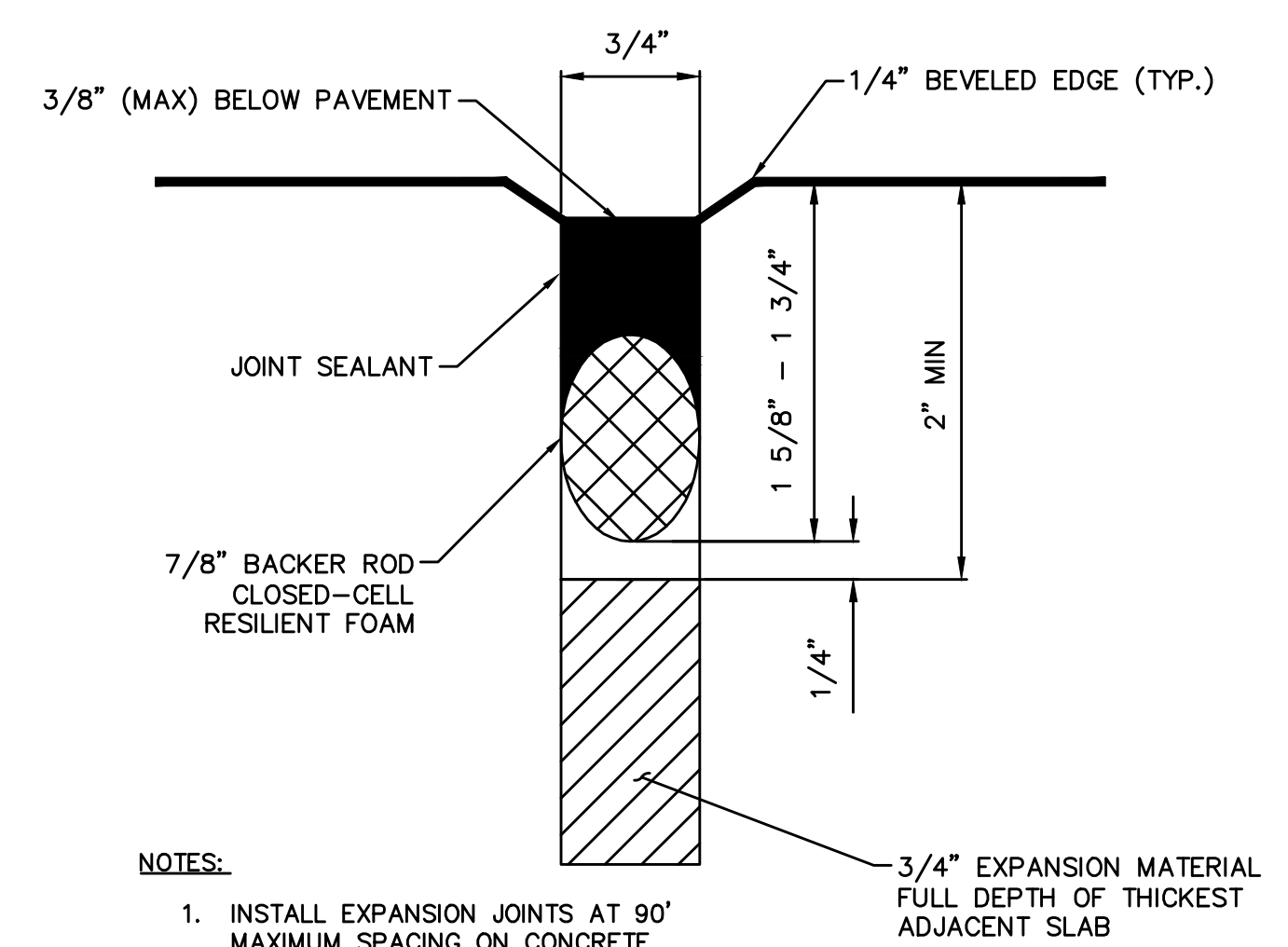
**CONCRETE SIDEWALK ADJACENT TO BOLLARD FOUNDATION** (B)  
TYPICAL INSTALLATION AND FINISH DT-5



**G-1150 MODIFIED BOLLARD DETAIL** (D)  
NOT TO SCALE DT-5



**BOLLARD TRIM DETAIL** (C)  
NOT TO SCALE DT-5



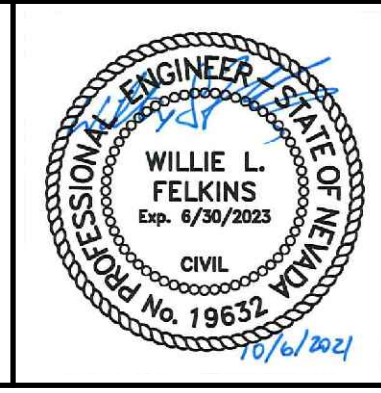
**SHALLOW BOLLARD FRAME EXPANSION JOINT** (A)  
TYPICAL INSTALLATION AND FINISH DT-5

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

REV. NO.	DATE	DESCRIPTION	APPROVED



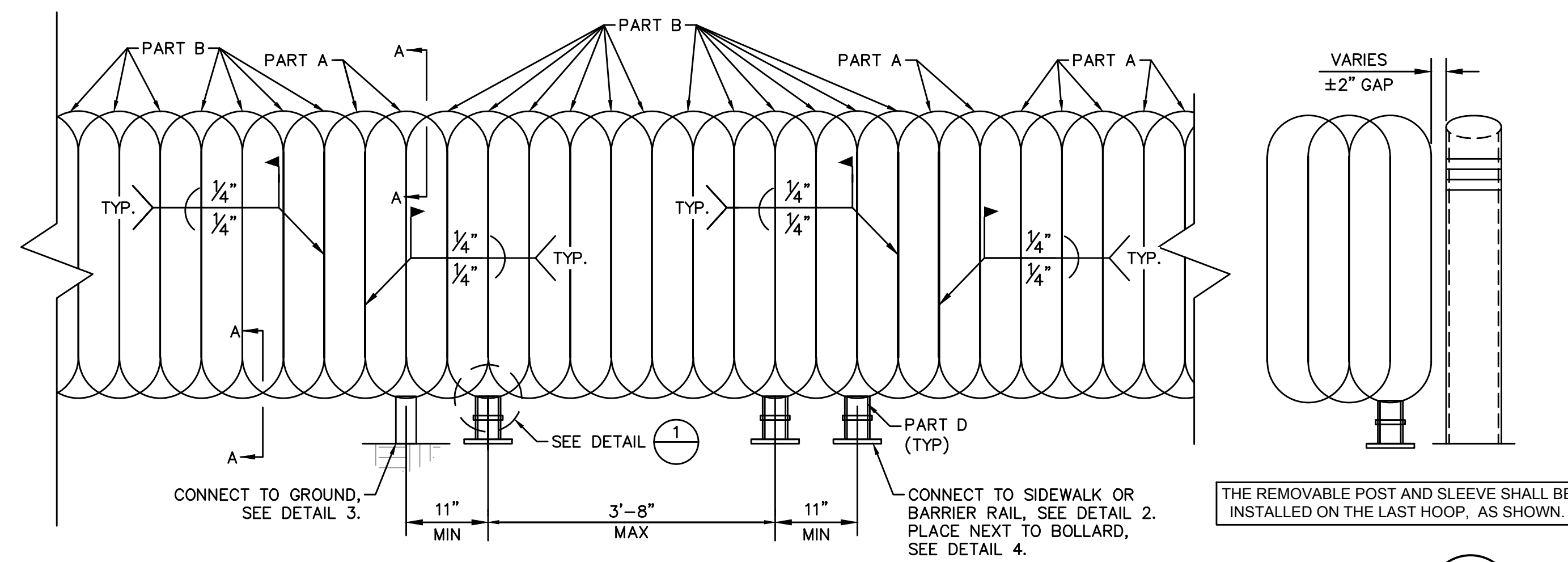
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**CONSTRUCTION DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF  
 DESIGNED BY: DSH  
 DRAWN BY: TAA  
 CHECKED BY: WLF  
 APPROVED BY: [Signature]  
**GCV**  
 ENGINEERS \ SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: NONE	DT-5
VERT: NONE	SHT. 62 OF 169
FIELD BOOK	L-2304



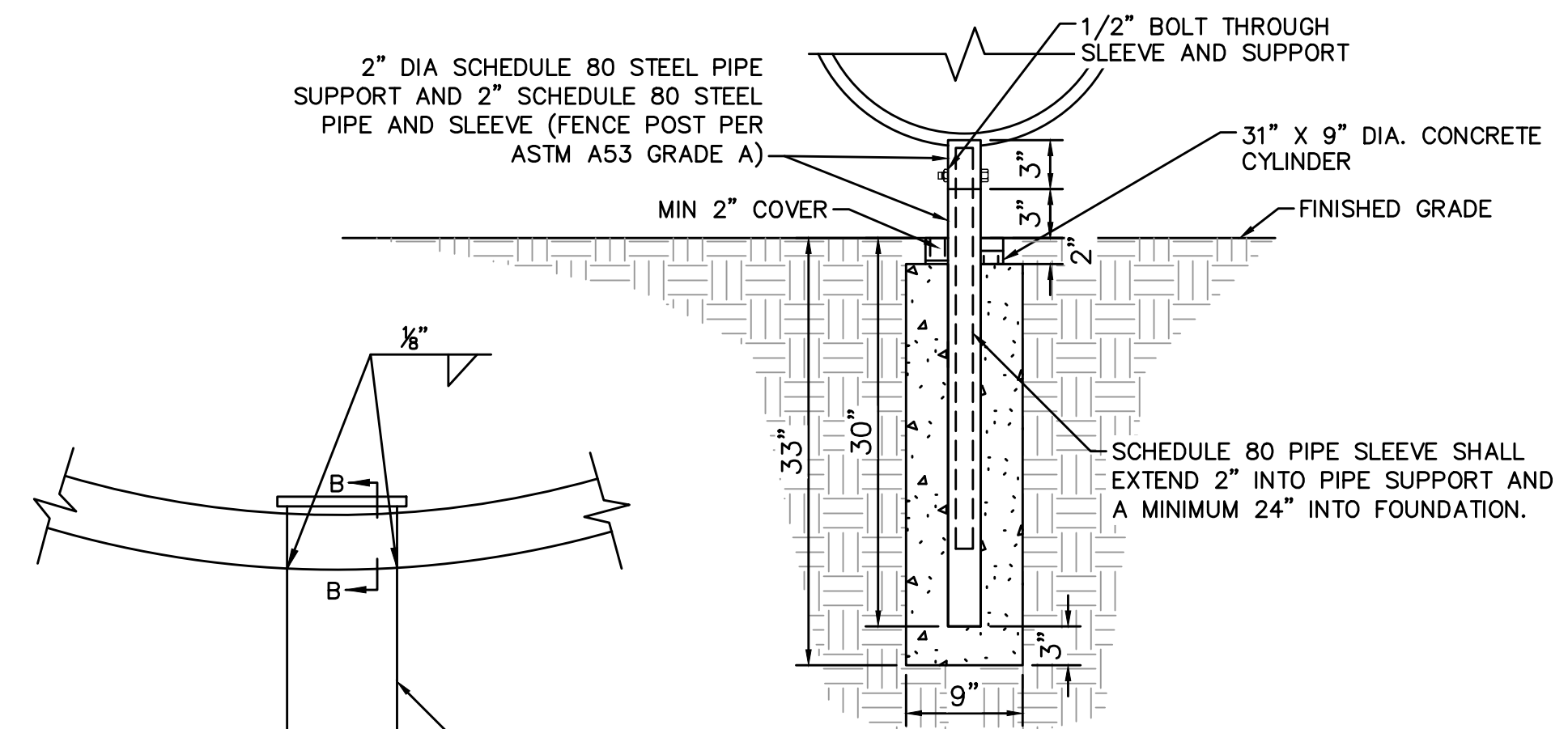
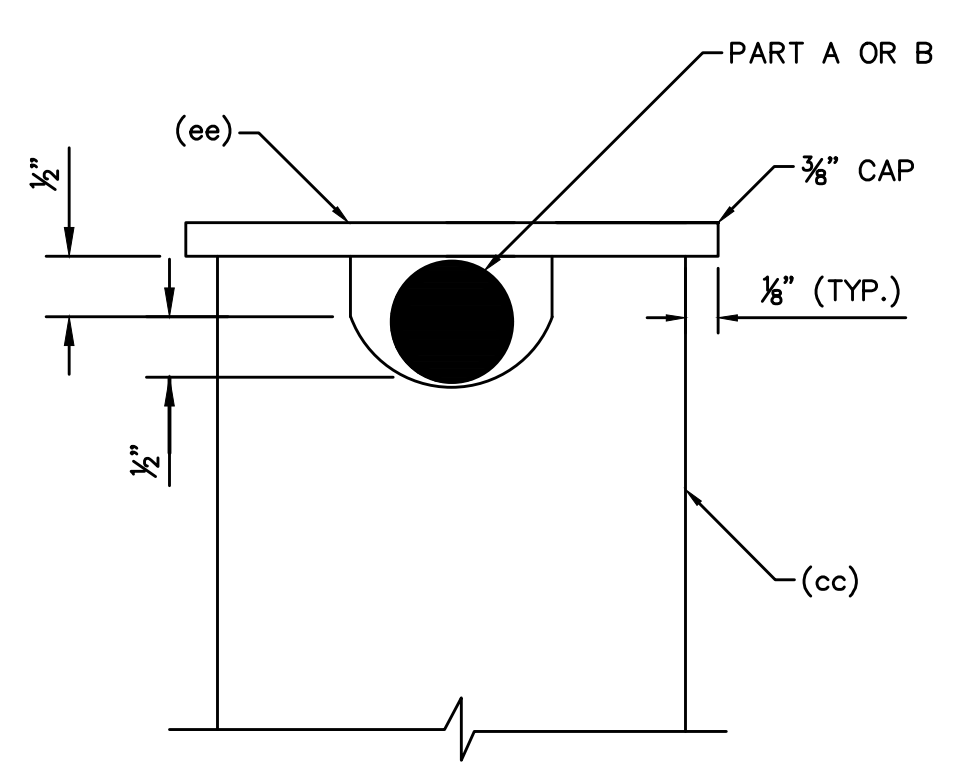
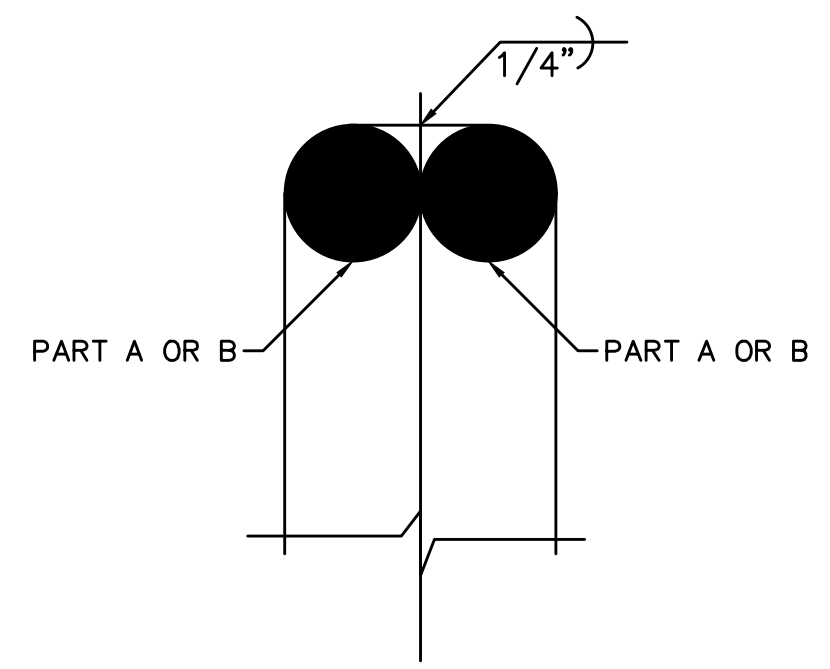


DETAIL 4  
NOT TO SCALE

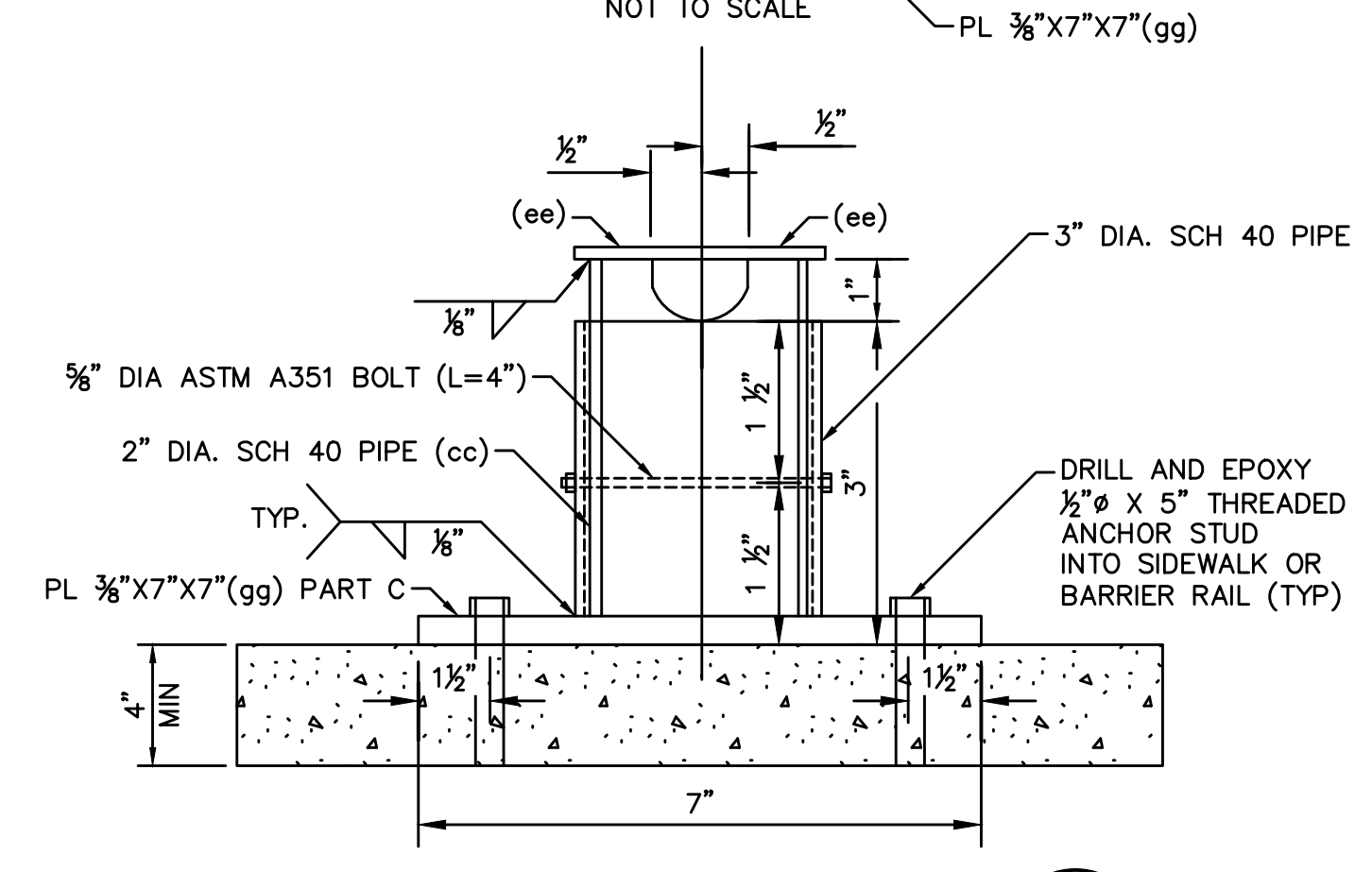
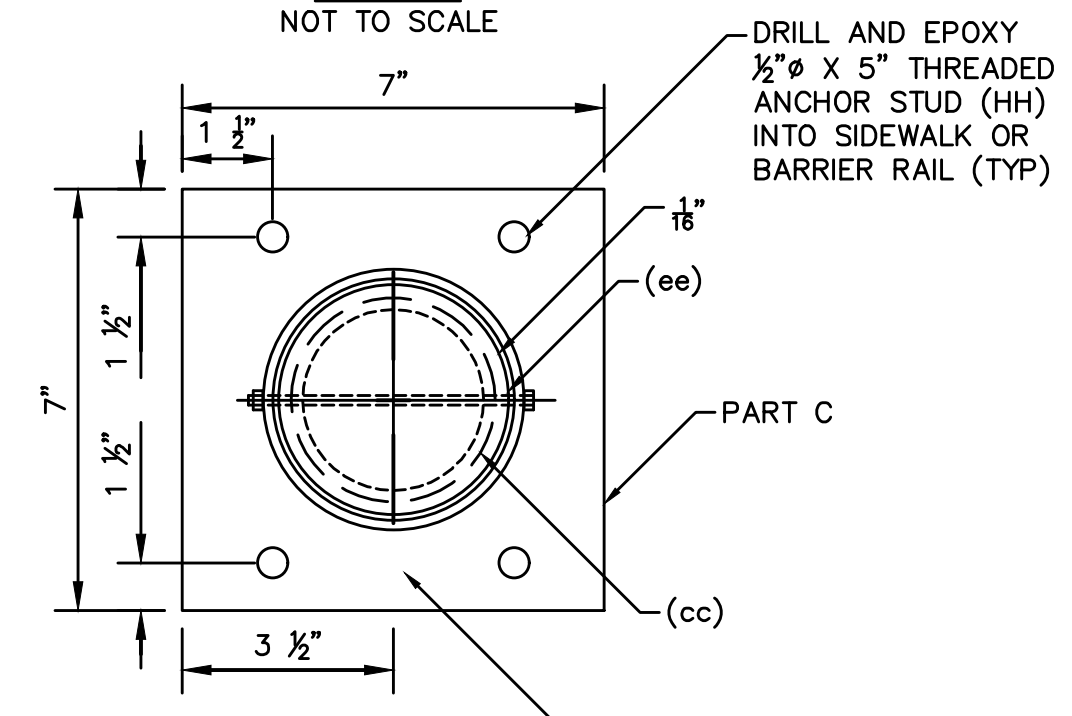
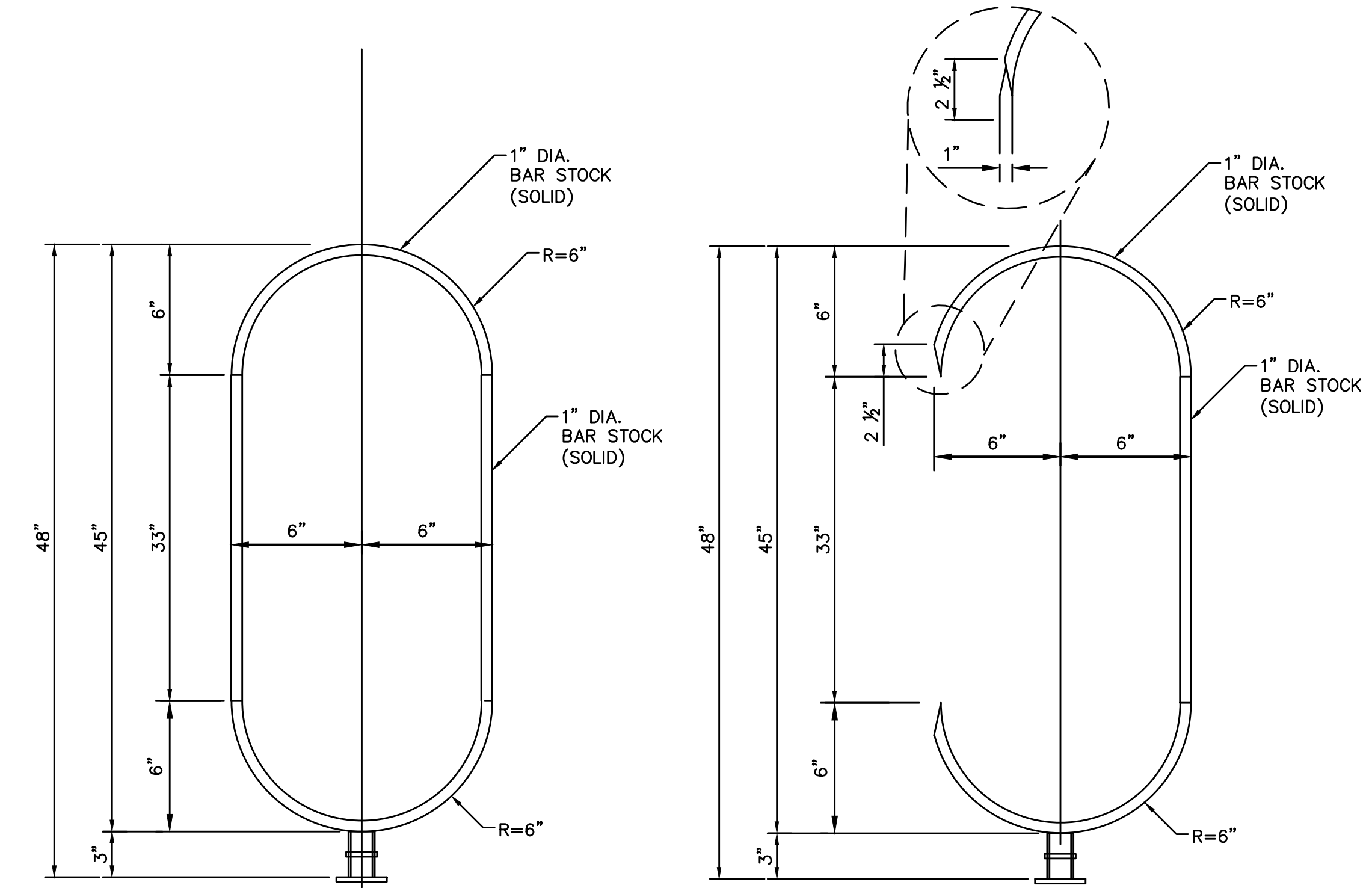
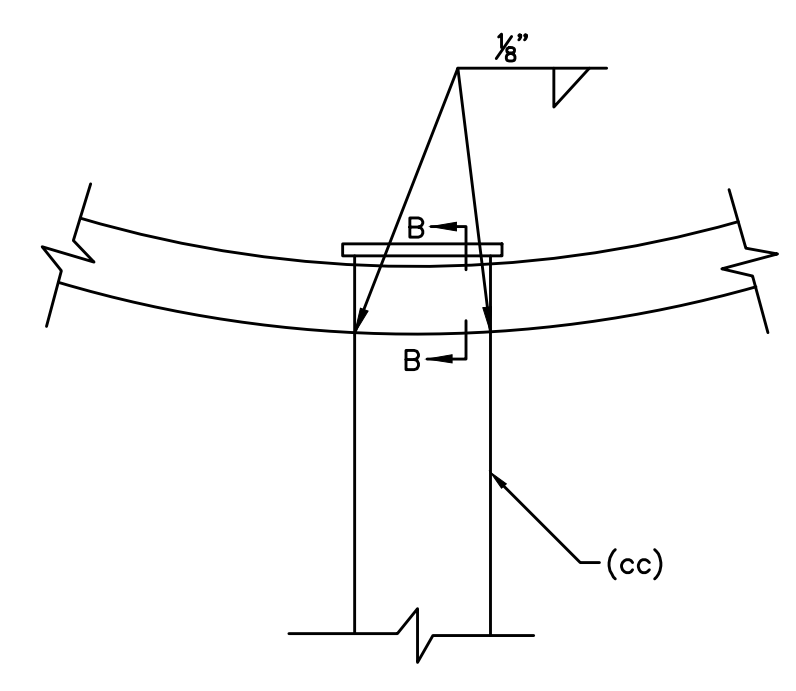
TYPICAL ASSEMBLY  
NOT TO SCALE

NOTES

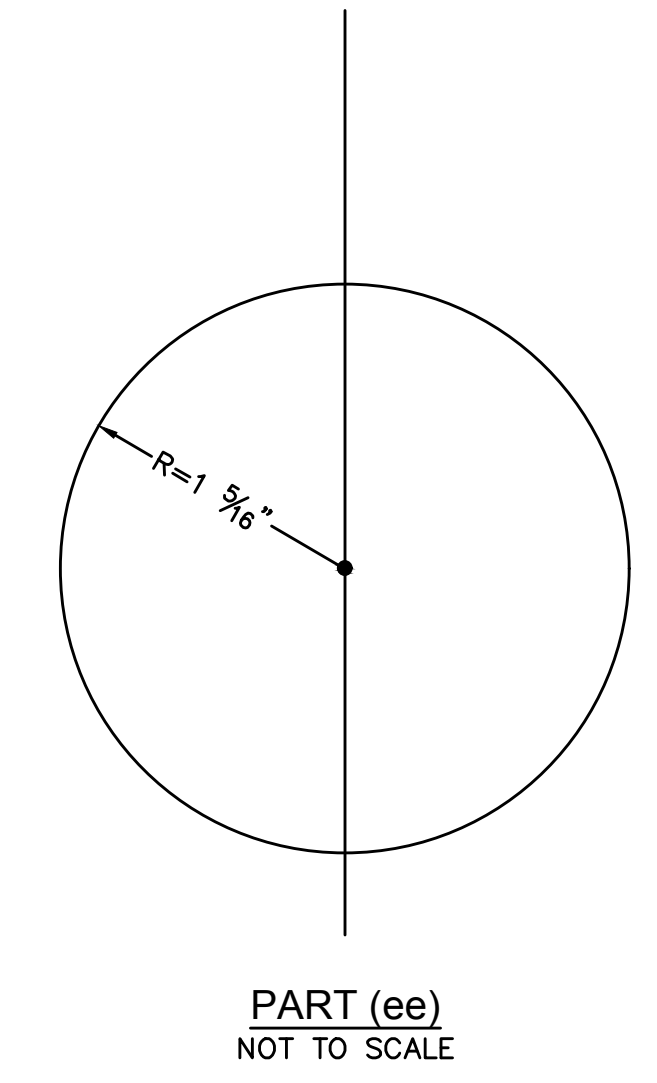
1. PEDESTRIAN CONTAINMENT SYSTEM TO BE POWDER COATED. COLOR TO MATCH EXISTING. CCPW TO APPROVE COLOR.
2. EPOXY SHALL BE SIMPSON SET-XP EPOXY-TIE ADHESIVE PER ICC ESR-2508 OR APPROVED EQUAL.



DETAIL 3  
NOT TO SCALE



DETAIL 2  
NOT TO SCALE



PEDESTRIAN CONTAINMENT FENCE  
TYPICAL INSTALLATION AND FINISH

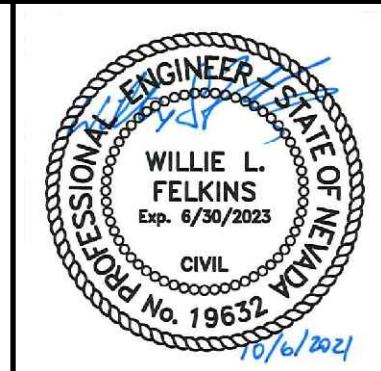
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DT-6

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REV. NO.	DATE	DESCRIPTION	APPROVED



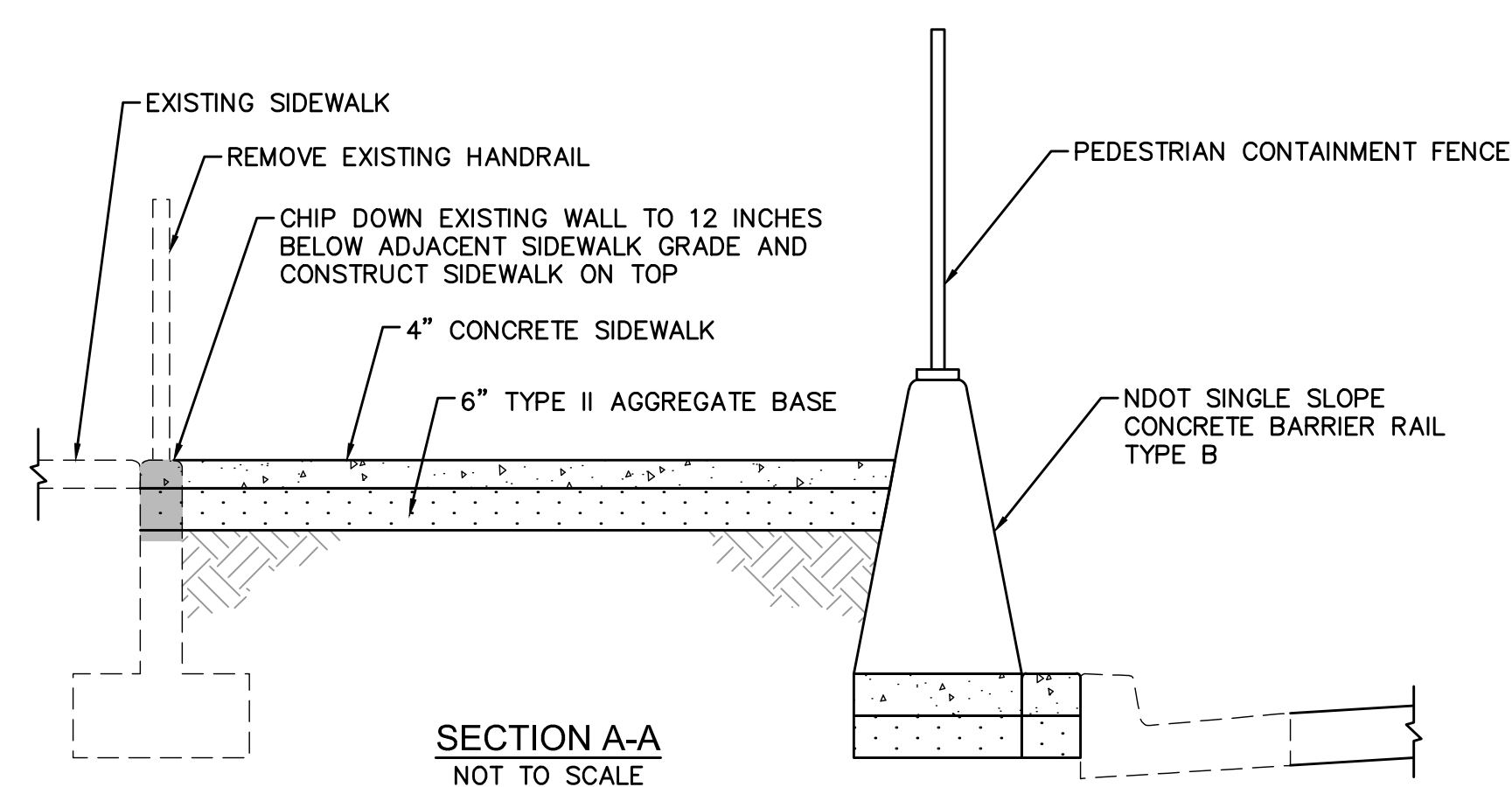
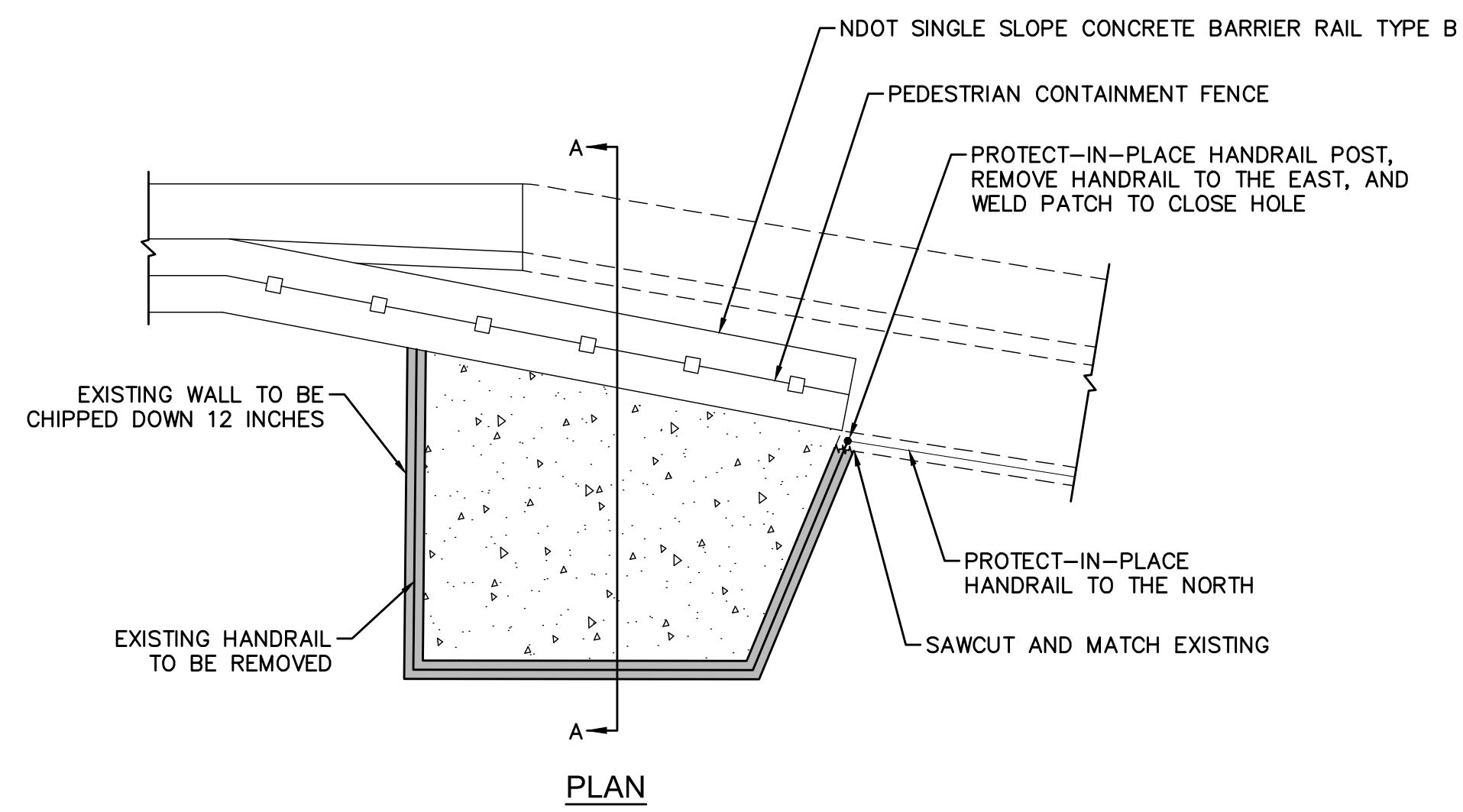
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD  
CONSTRUCTION DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



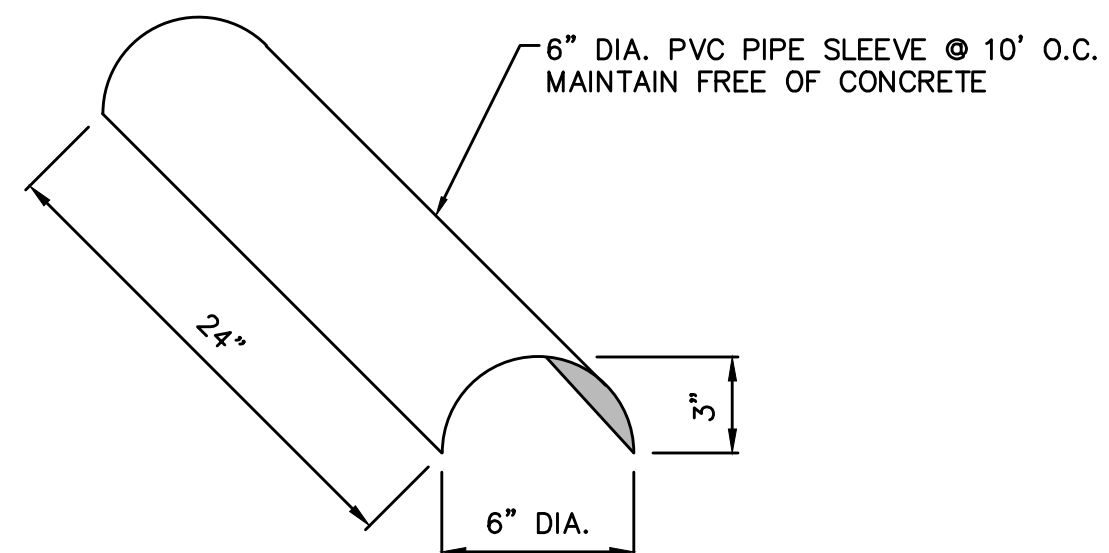
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY:   
GCV ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
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gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	DT-6
VERT: NONE	SHT. 63 OF 169
FIELD BOOK	L-2304



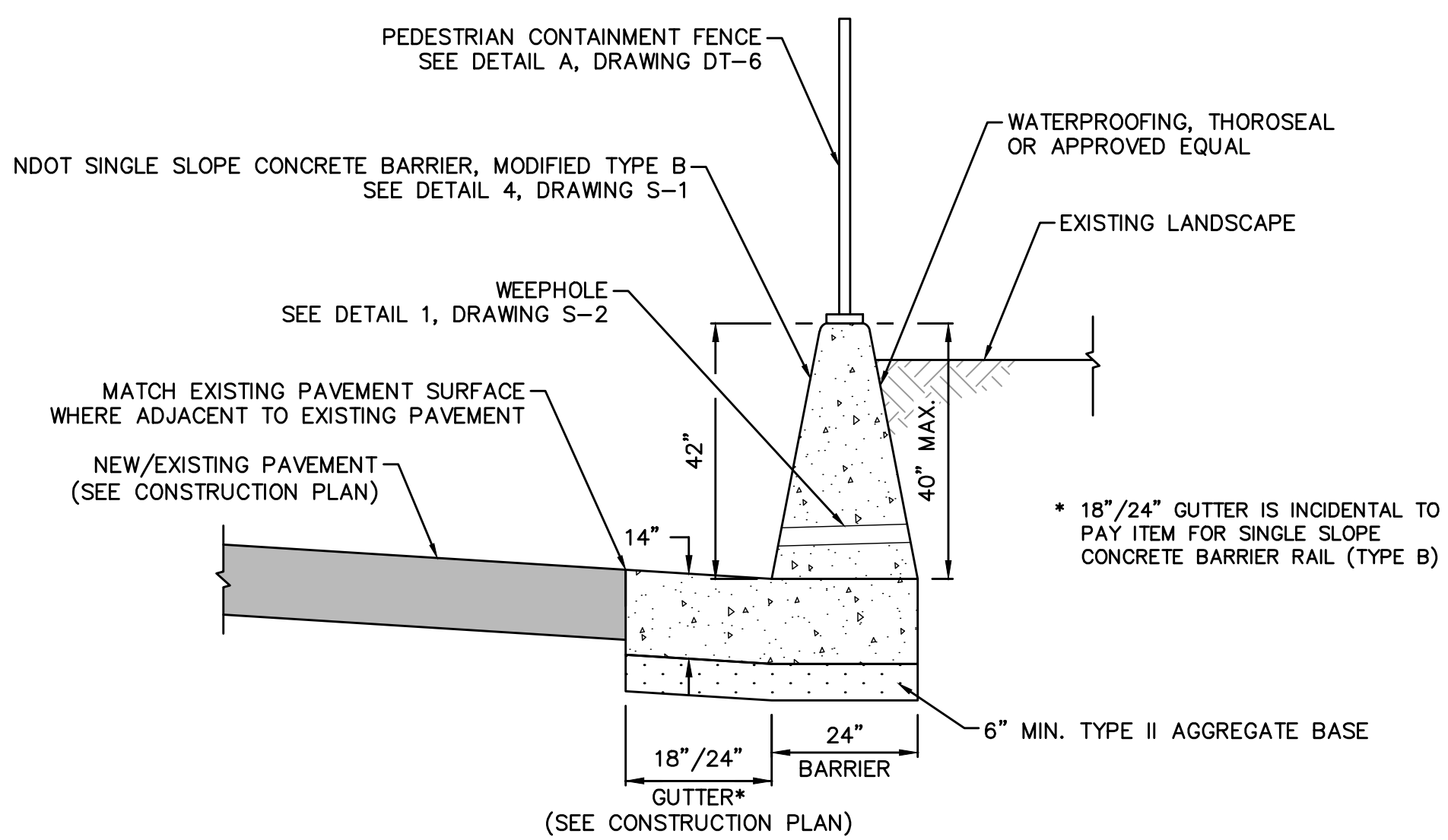


WALL REMOVAL DETAIL  
NOT TO SCALE

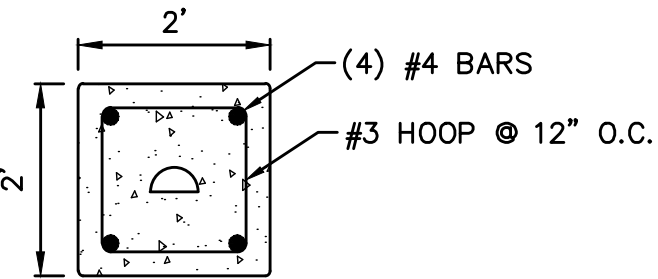


- NOTES:
- SCUPPERS SHALL BE LOCATED ALONG BOTTOM LENGTH OF BARRIER RAIL AT SIDEWALK SLOPE AND ELEVATION SPACED AT 10 FEET O.C.
  - SCUPPERS TO BE INSTALLED UNDER NEW LANDSCAPING SHALL BE EXTENDED TO FACE OF NEW PLANTER RETAINING WALL AND CONCRETE ENCASED.
  - FOR OTHER DETAILS SEE NDOT STD. DETAIL NO.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

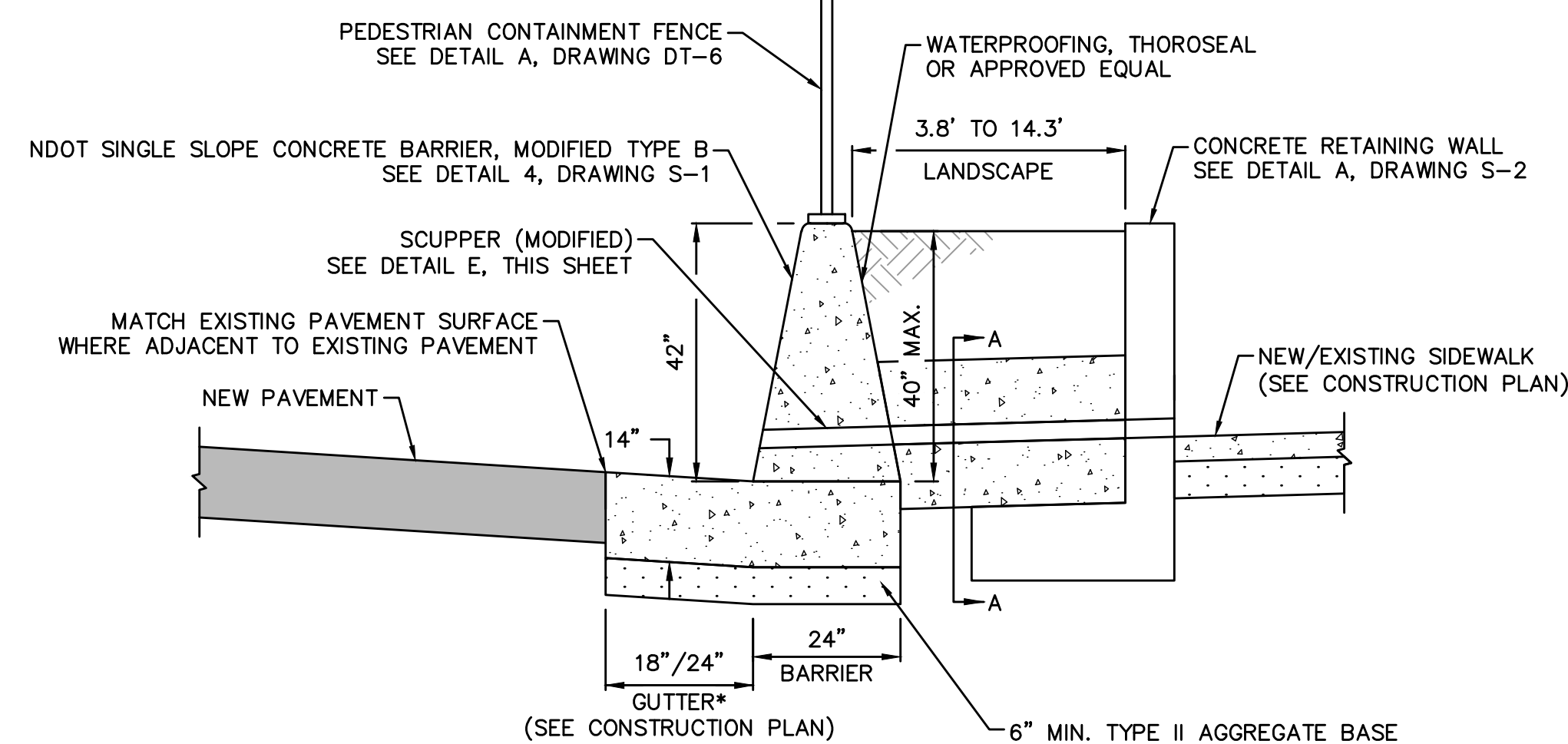
BARRIER SCUPPER (MODIFIED)  
NOT TO SCALE



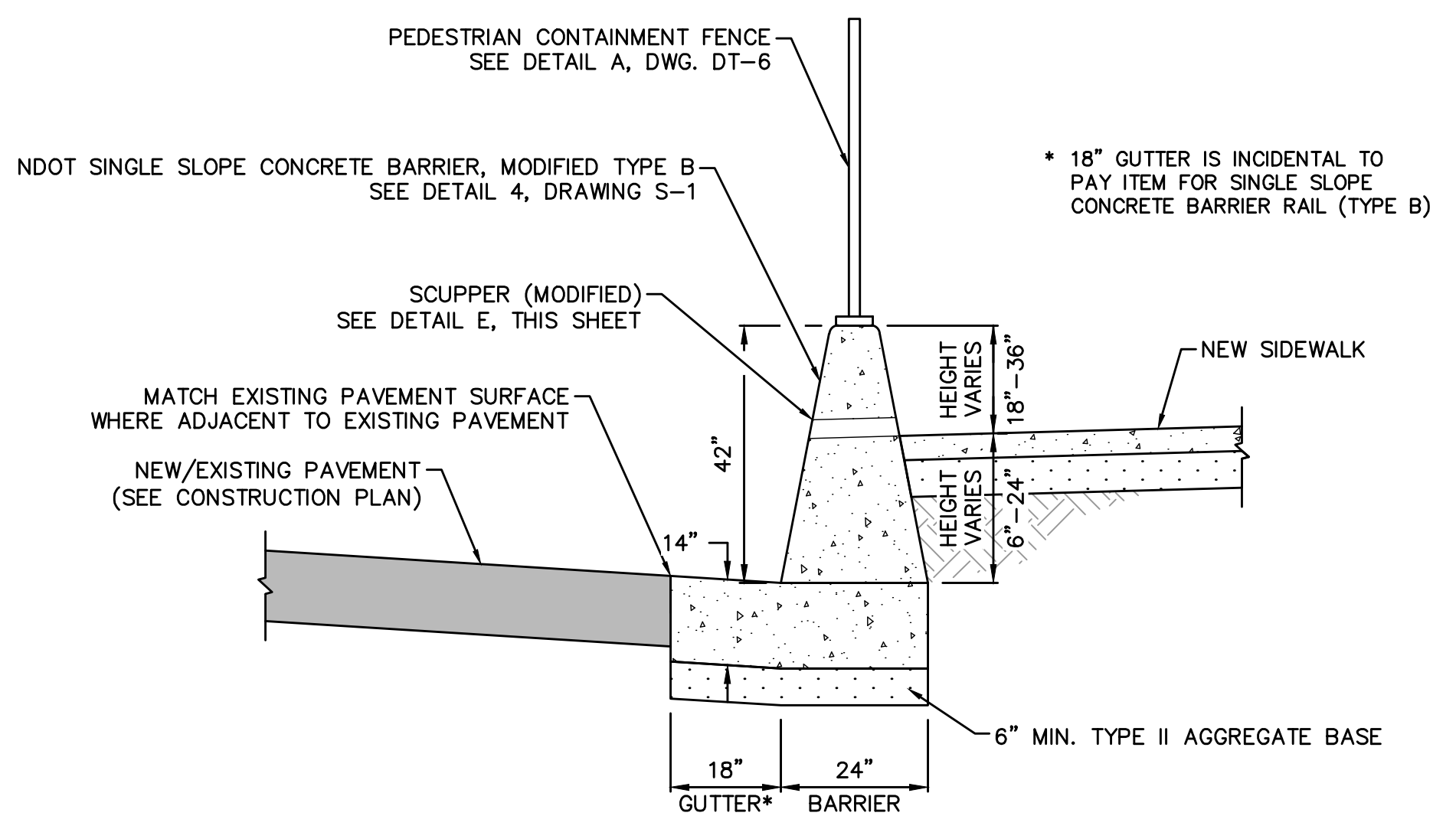
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) ADJACENT TO EXISTING PLANTER  
NOT TO SCALE



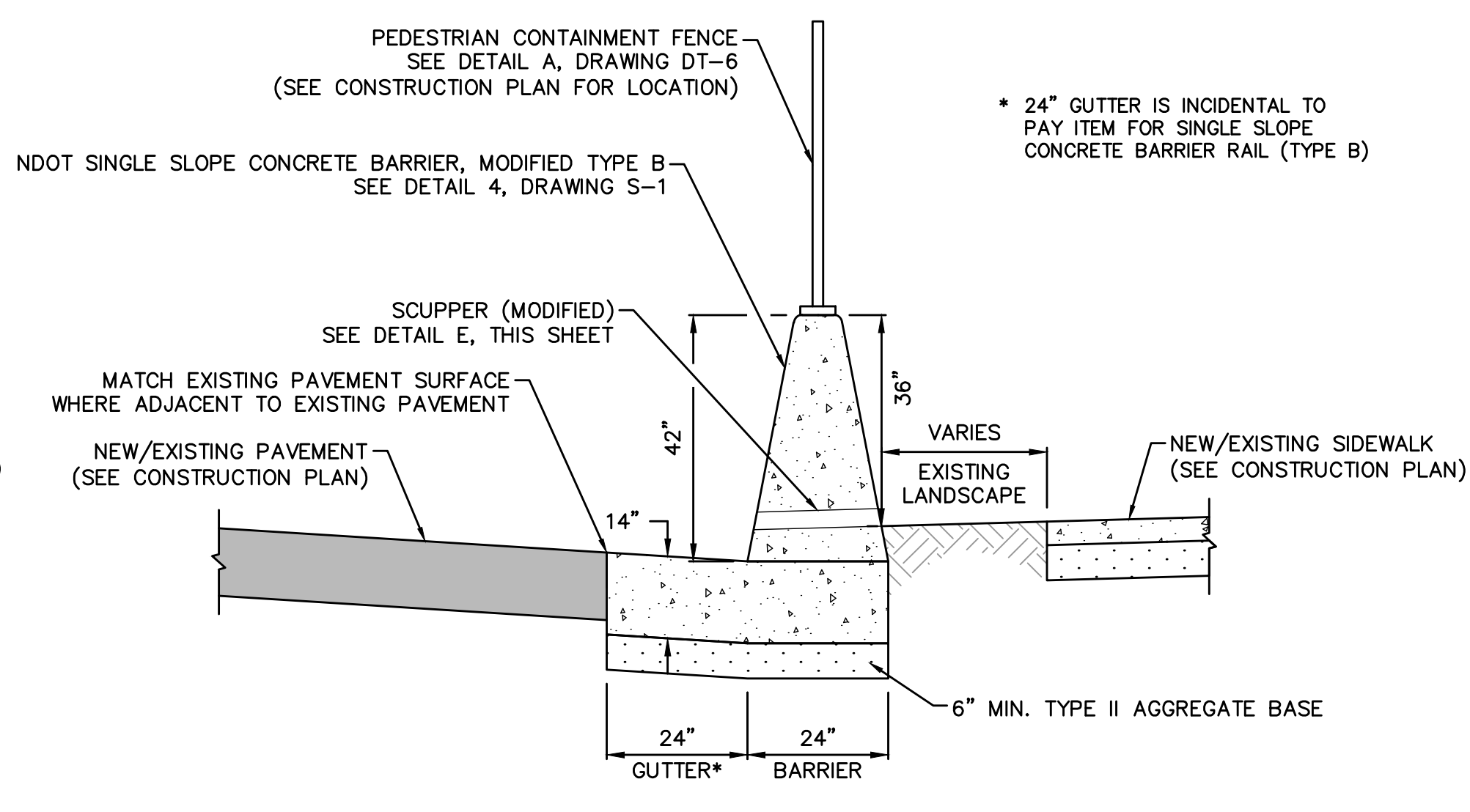
SECTION A-A  
NOT TO SCALE



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



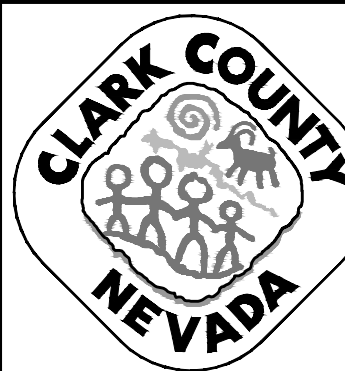
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT HARMON AVE NEC  
NOT TO SCALE



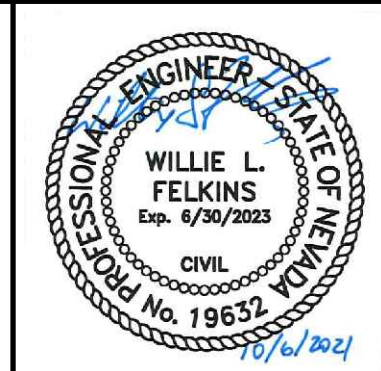
SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B)  
NOT TO SCALE

10-13-21 11:40:36 F:\Projects\500\500-897-LV-EF\DWG\Production\LV\_EF\_DT\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



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

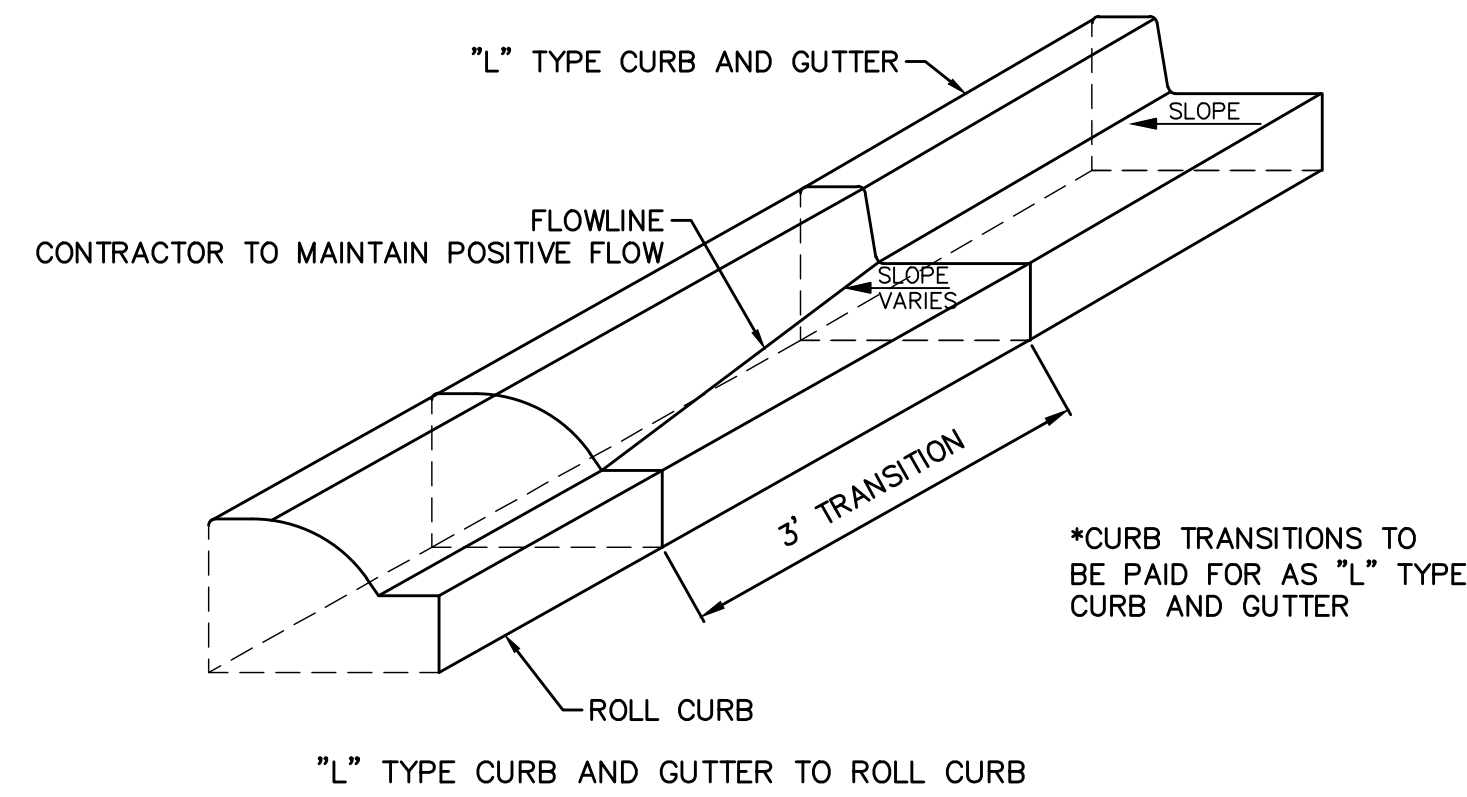


PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
GCV ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: NONE  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
DT-7  
SHT. 64 OF 169  
L-2304

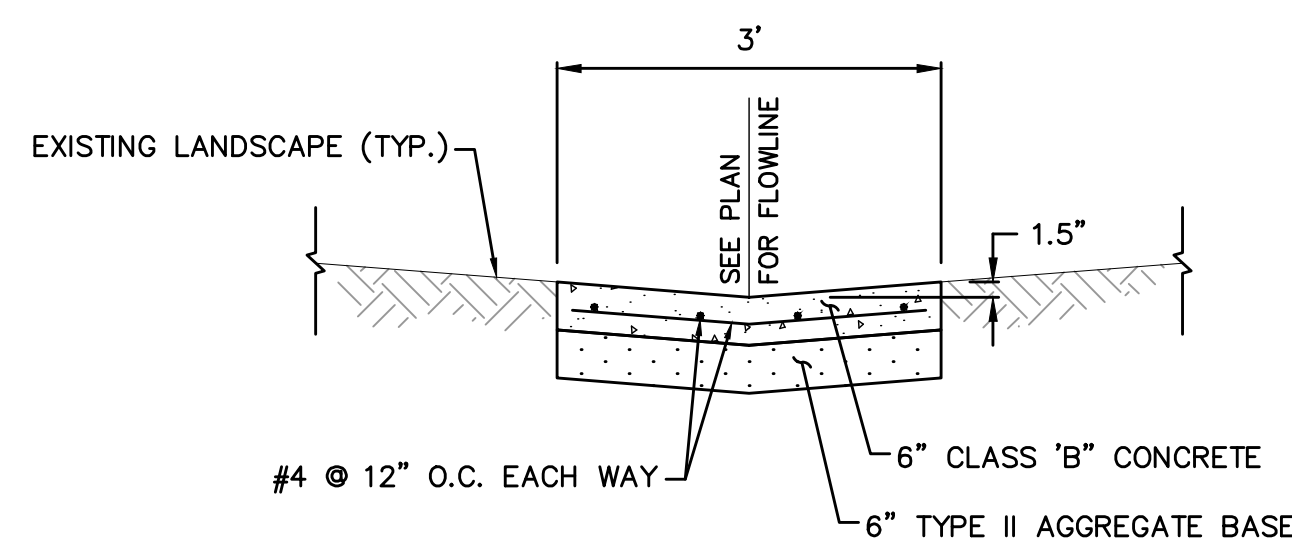




**CURB TRANSITION ("L" TYPE TO ROLL CURB)**

NOT TO SCALE

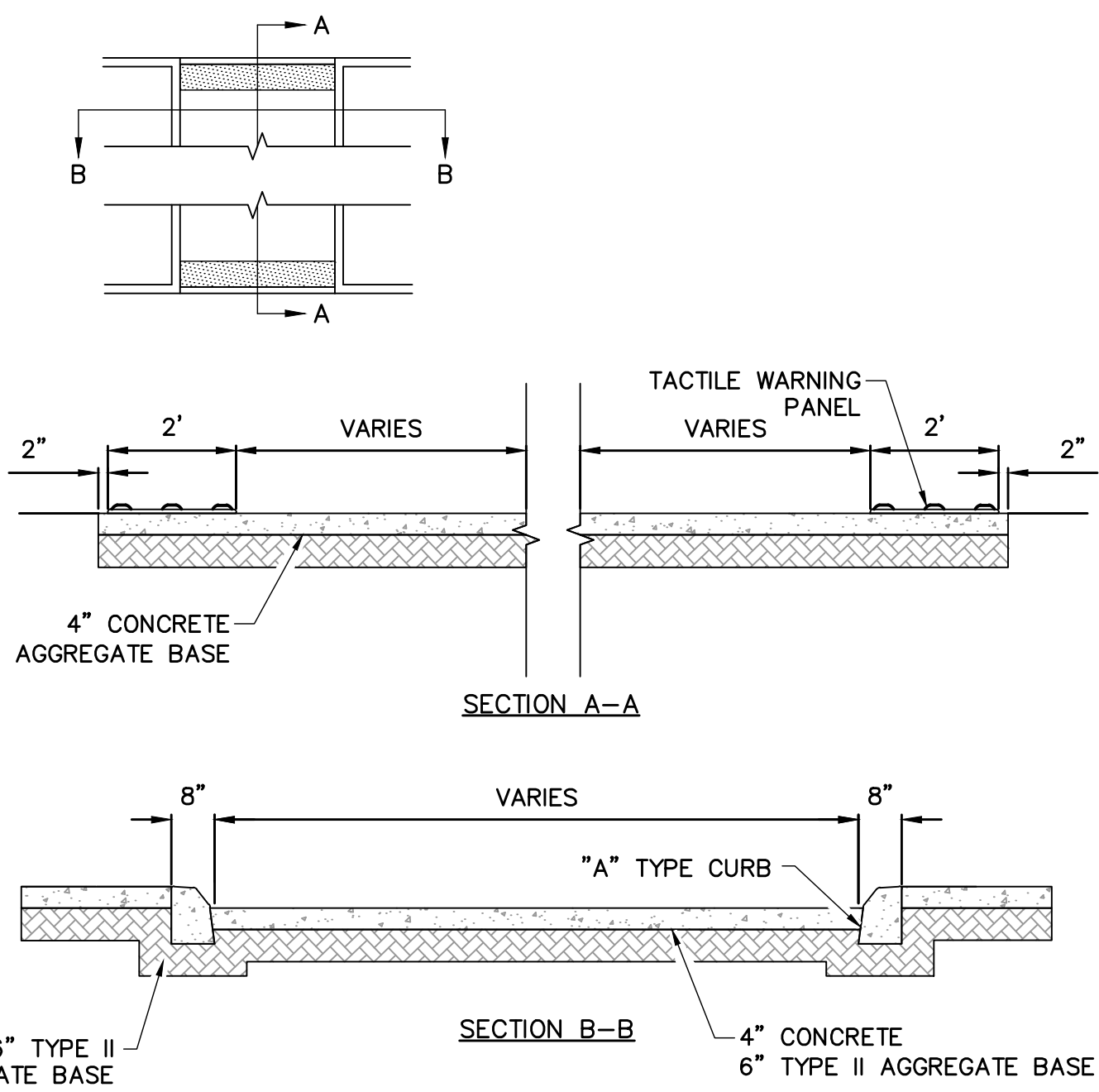
**G**  
DT-8



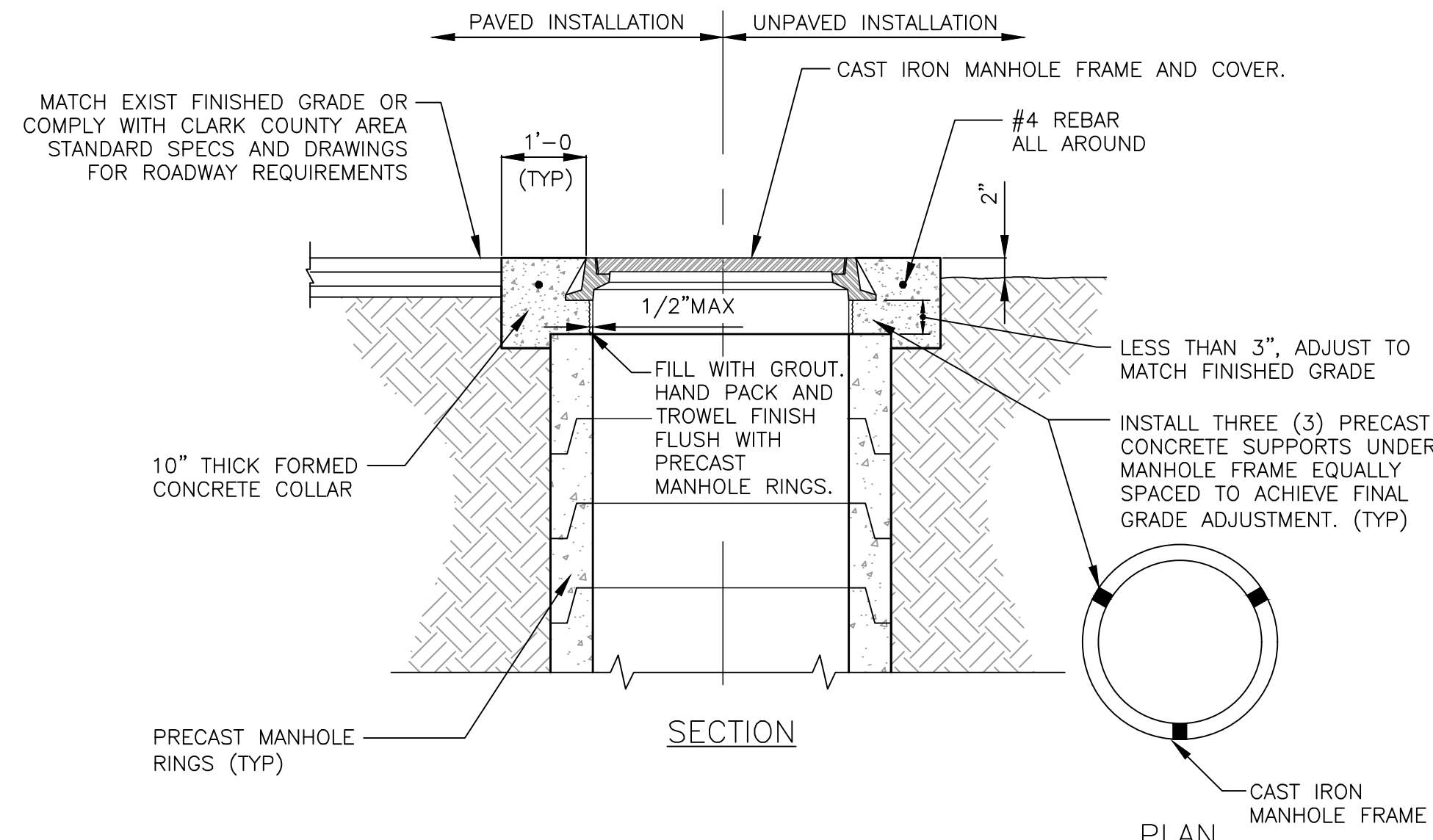
**3-FOOT CONCRETE VALLEY GUTTER**

NOT TO SCALE

**F**  
DT-8



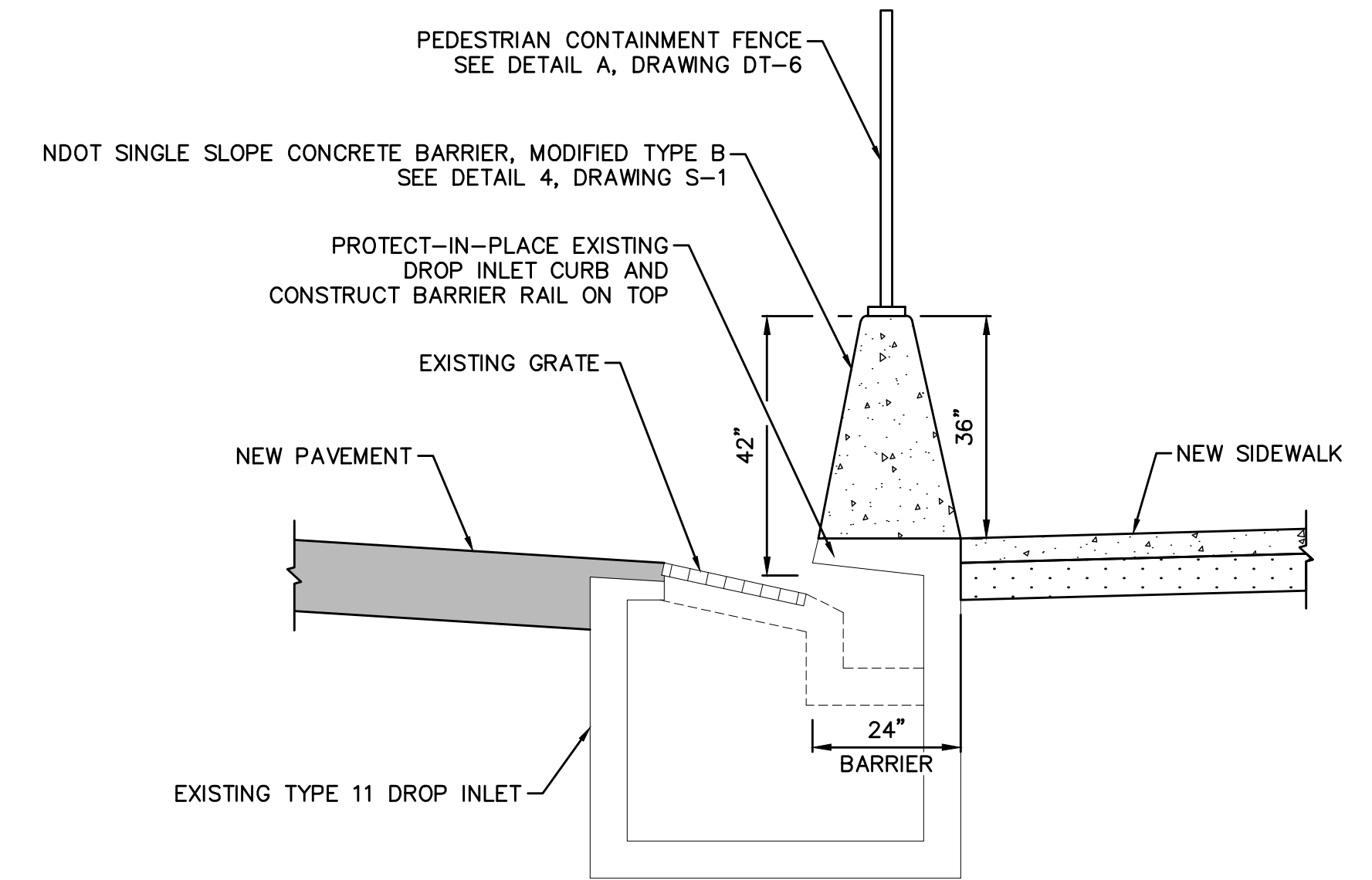
**E**  
DT-8



**MANHOLE COVER AND COLLAR INSTALLATION**

NOT TO SCALE

**D**  
DT-8

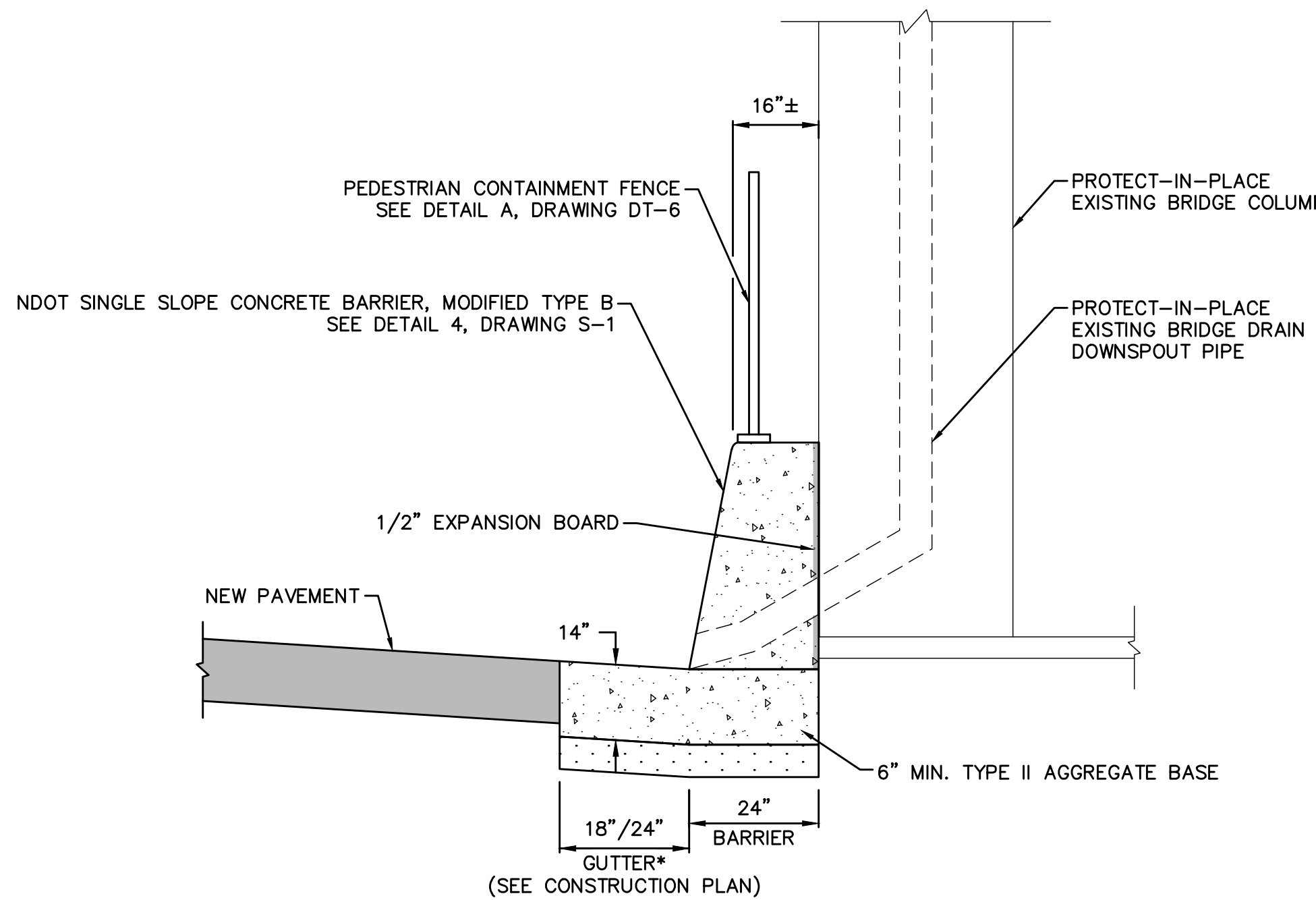


**SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT TYPE 11 INLET**

NOT TO SCALE

**B**  
DT-8

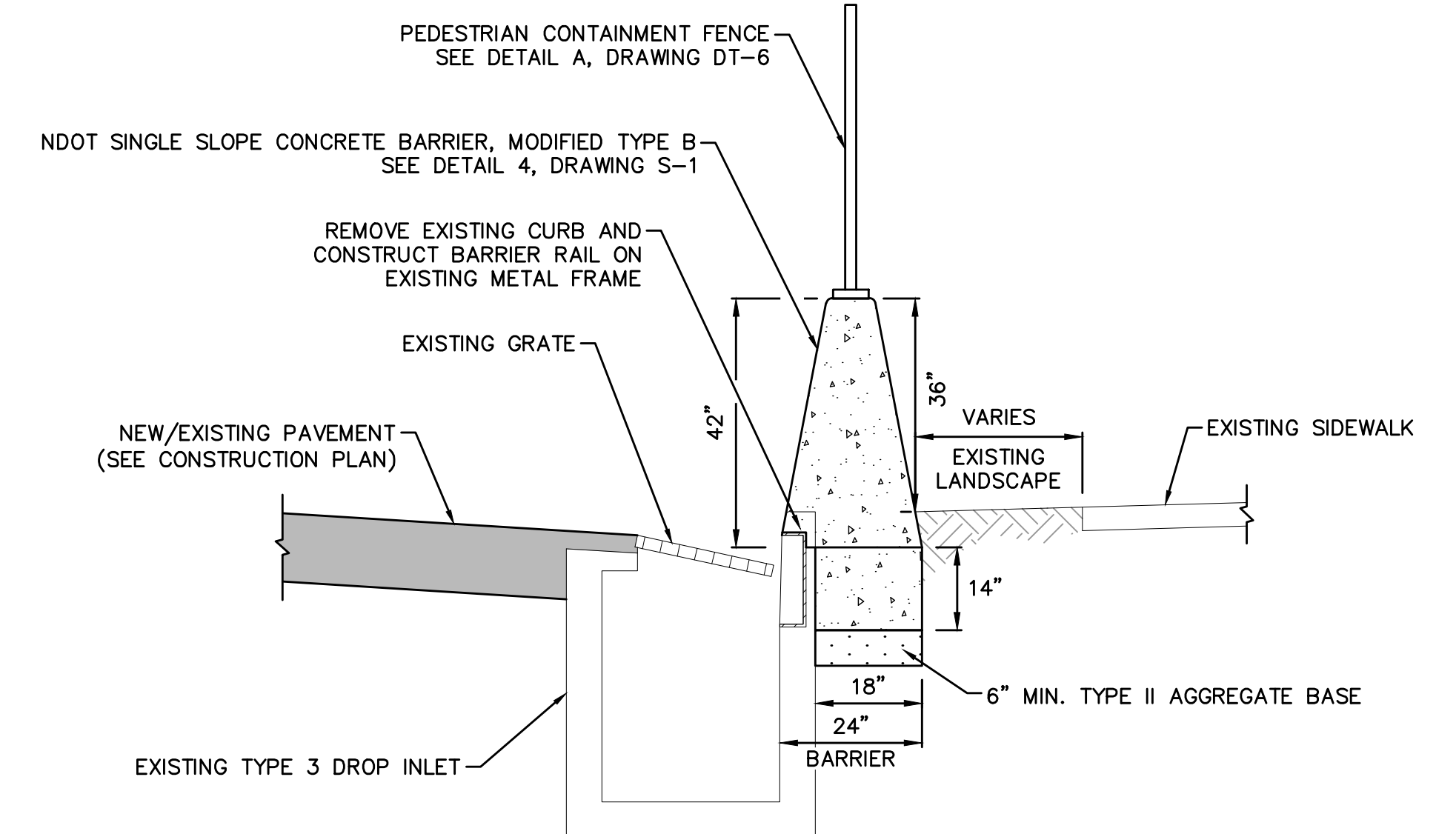
**NOTE:**  
1. INSTALL CONSTRUCTION JOINTS ON EACH SIDE OF DROP INLET.



**SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT BRIDGE COLUMN**

NOT TO SCALE

**C**  
DT-8



**SINGLE SLOPE CONCRETE BARRIER RAIL (MODIFIED TYPE B) AT TYPE 3 INLET**

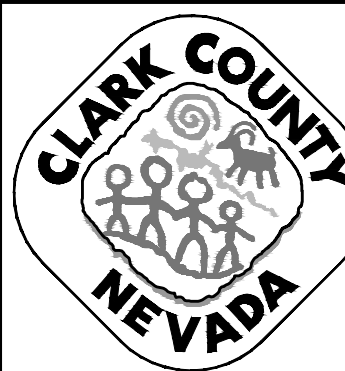
NOT TO SCALE

**A**  
DT-8

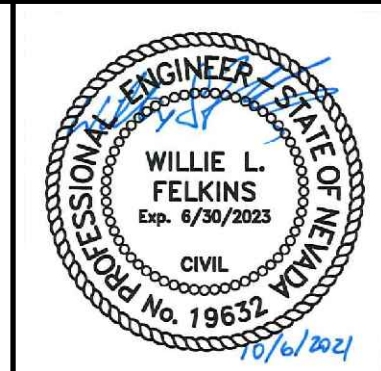
**NOTE:**  
1. INSTALL CONSTRUCTION JOINTS ON EACH SIDE OF DROP INLET.

10-13-21 11:40:37 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_DT\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



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

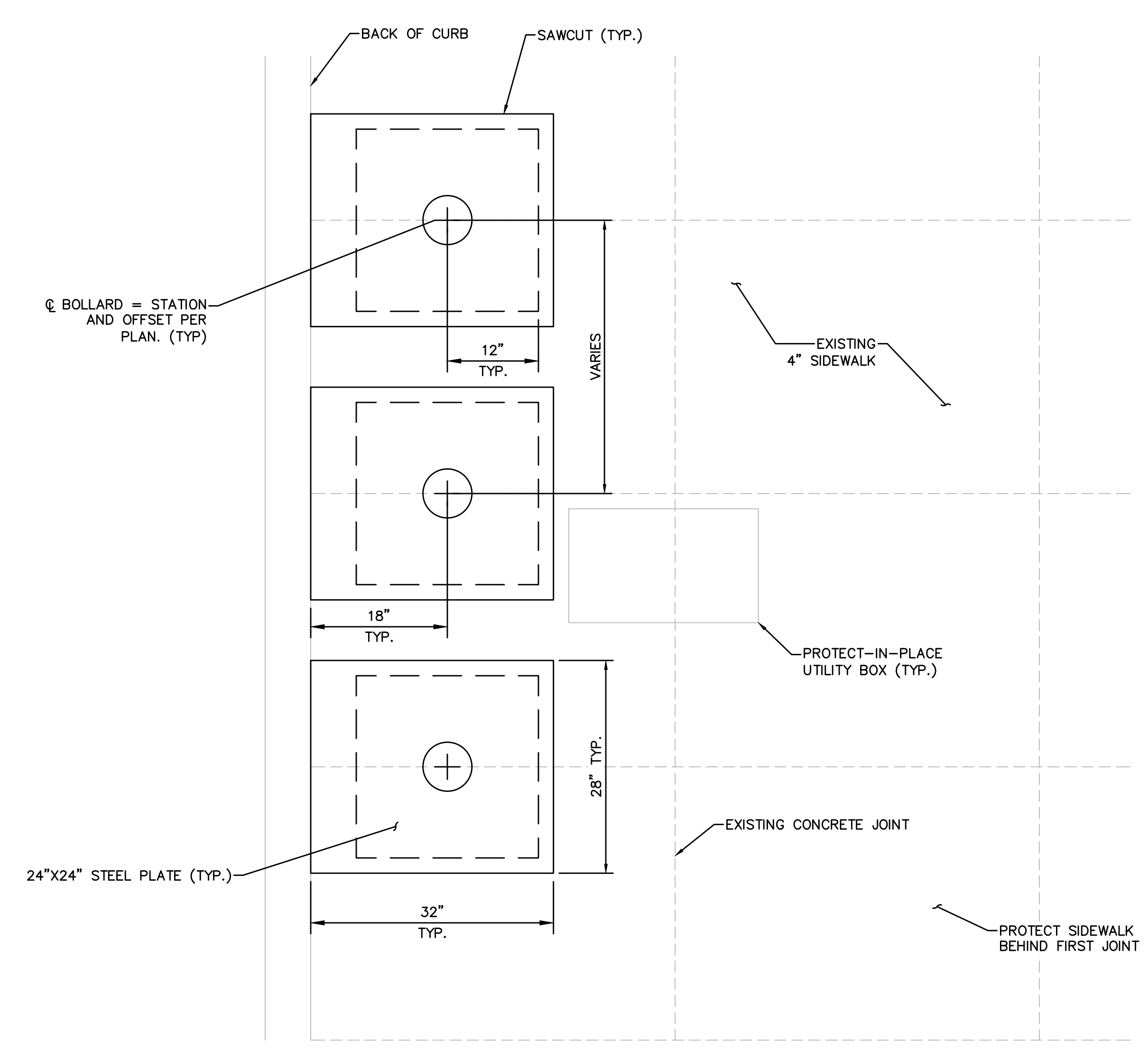


PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>DT-8</b>
VERT: NONE	SHT. 65 OF 169
FIELD BOOK	L-2304

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

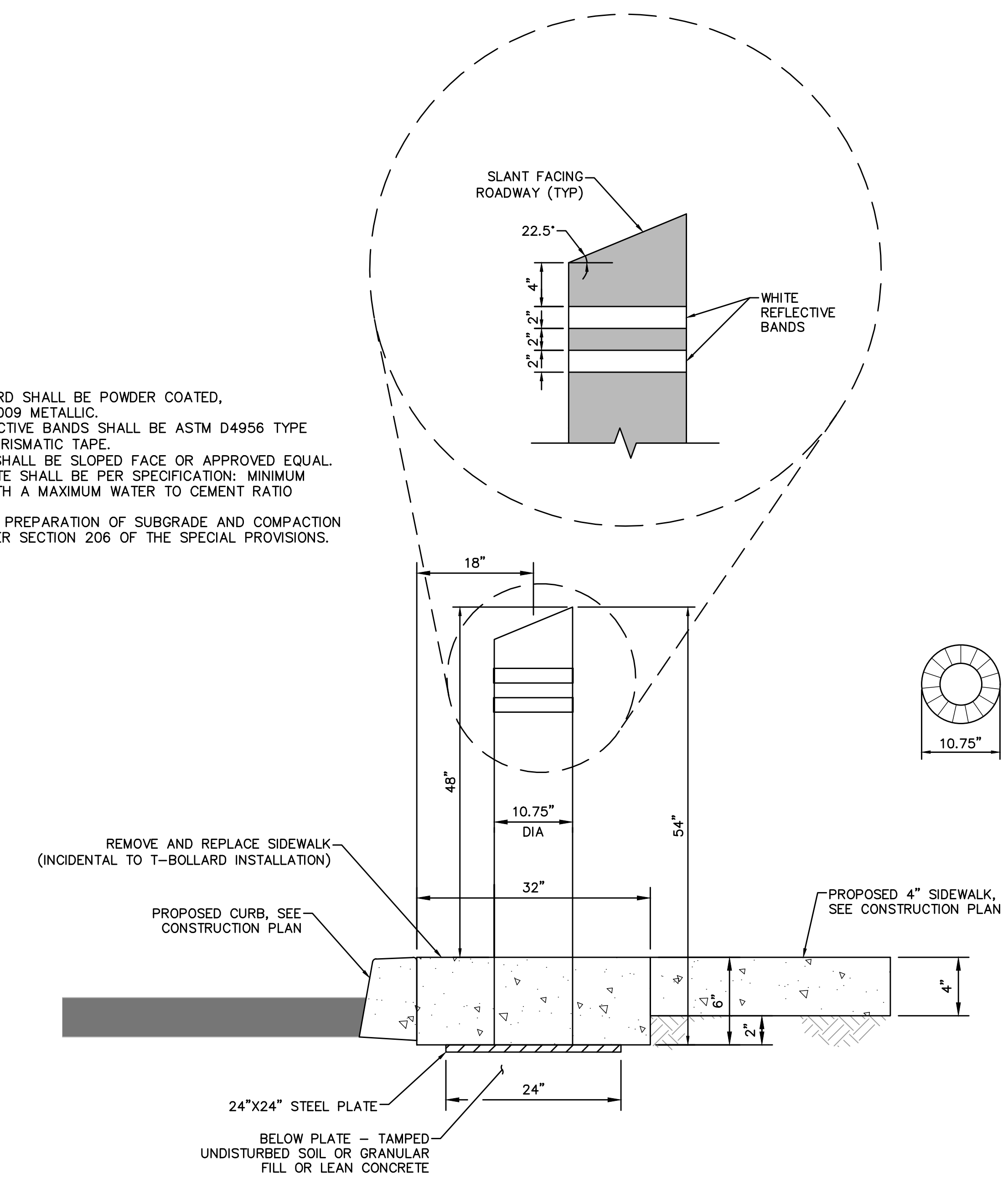




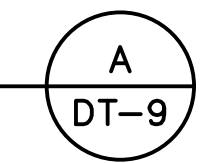
☉ BOLLARD = STATION AND OFFSET PER PLAN. (TYP.)

**NOTES:**

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



T-BOLLARD  
TYPICAL INSTALLATION AND FINISH



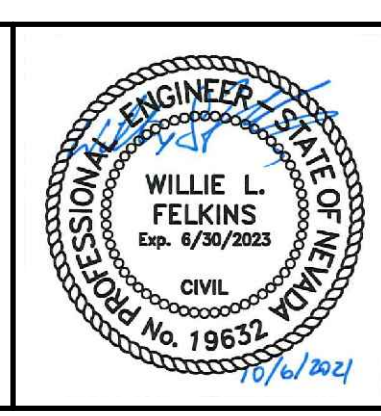
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REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION DETAILS**

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



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

**GCV** ENGINEERS \ SURVEYORS  
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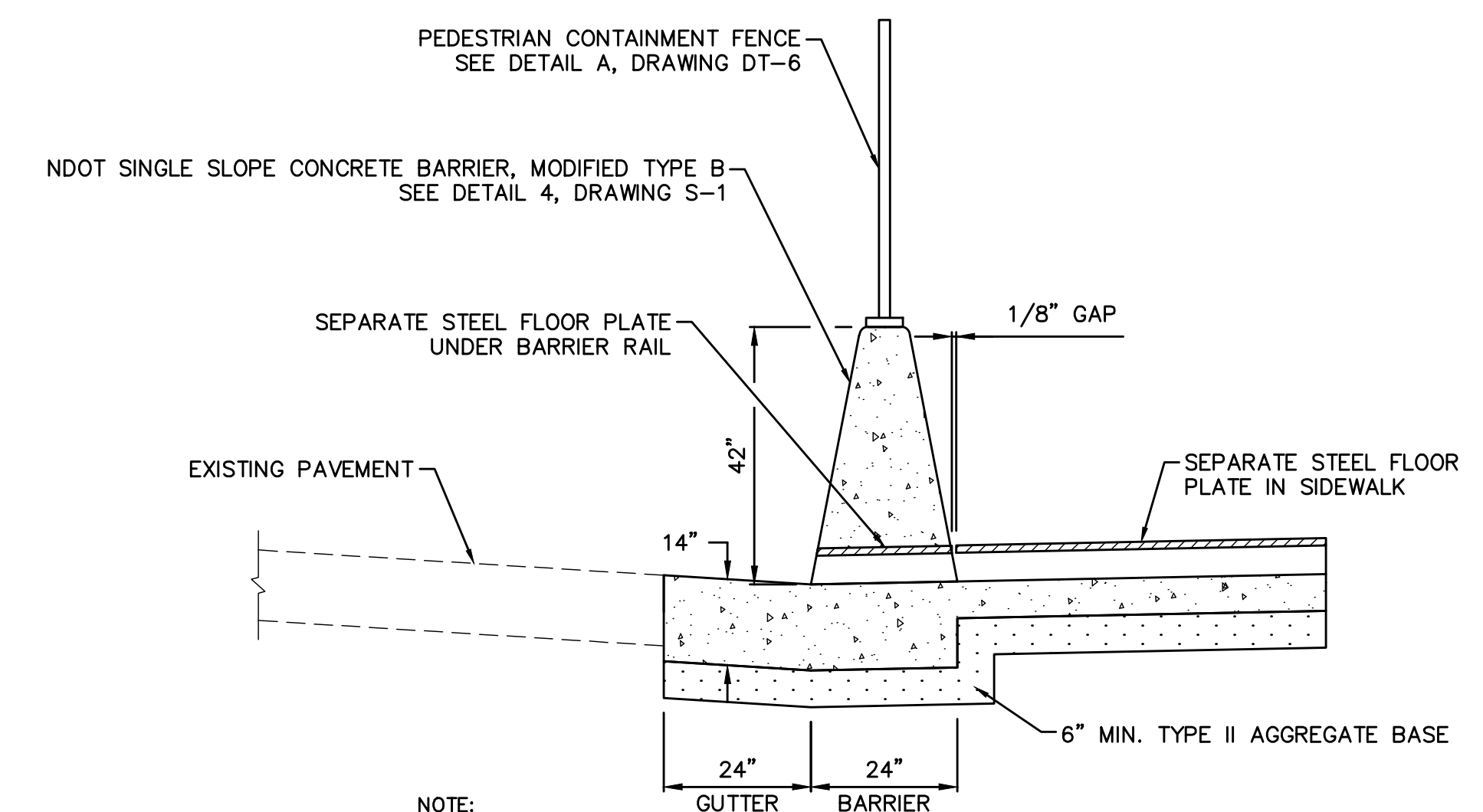
SCALE	DRAWING NO.
HORIZ: NONE	DT-9
VERT: NONE	SHT. 66 OF 169
FIELD BOOK	L-2304







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

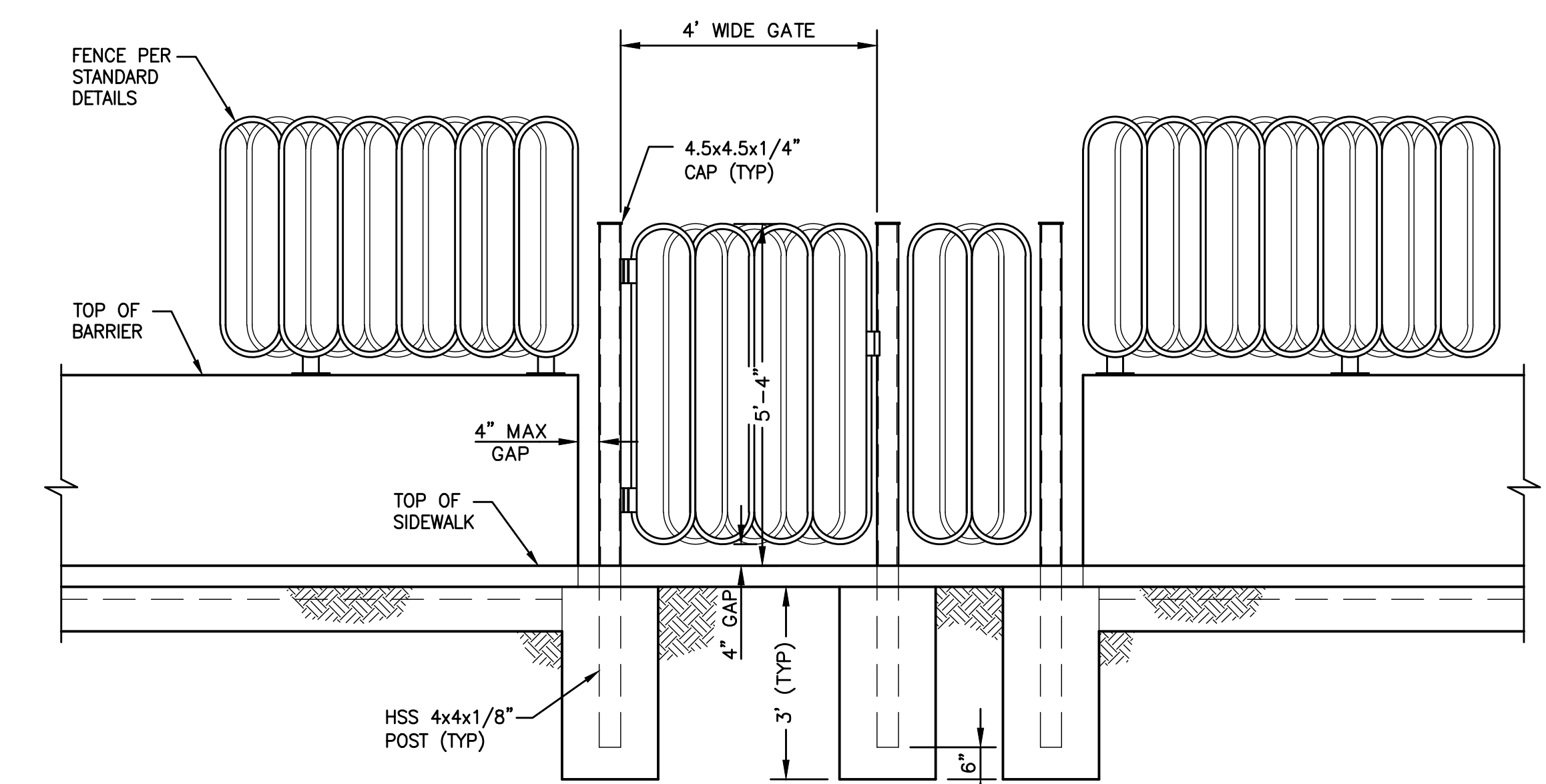


NOTE:  
1. REFER TO USDOCA STD. DWG. NO. 236 FOR SIDEWALK DRAIN DETAILS.

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

NOT TO SCALE

**B**  
DT-11



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

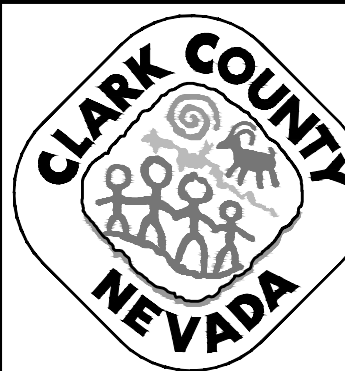
**FIRE HYDRANT ACCESS GATE DETAIL**

NOT TO SCALE

**A**  
DT-11

10-13-21 11:40:41 F:\Projects\500\500-897-LV-EF\DWG\Production\VEF\_08\_DT\_Sheets.dwg

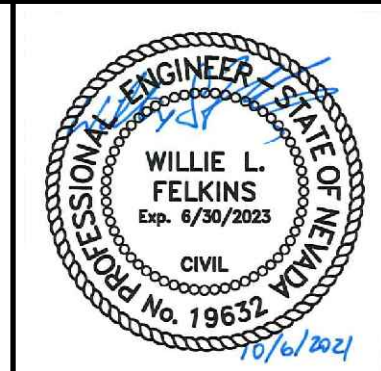
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**CONSTRUCTION DETAILS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



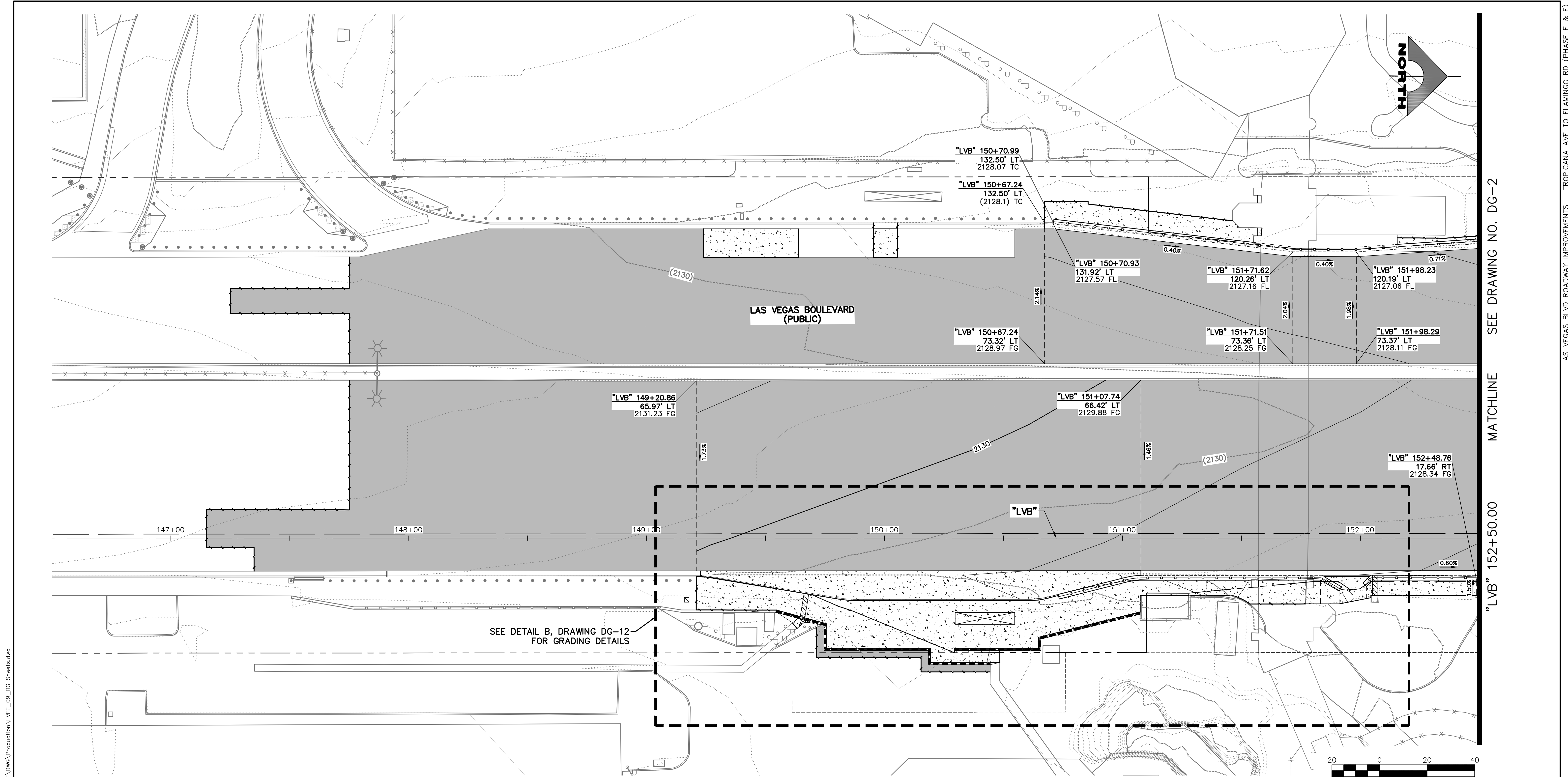
PROJECT No: 500-897-LV-EF DRAWN BY: TJS  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

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

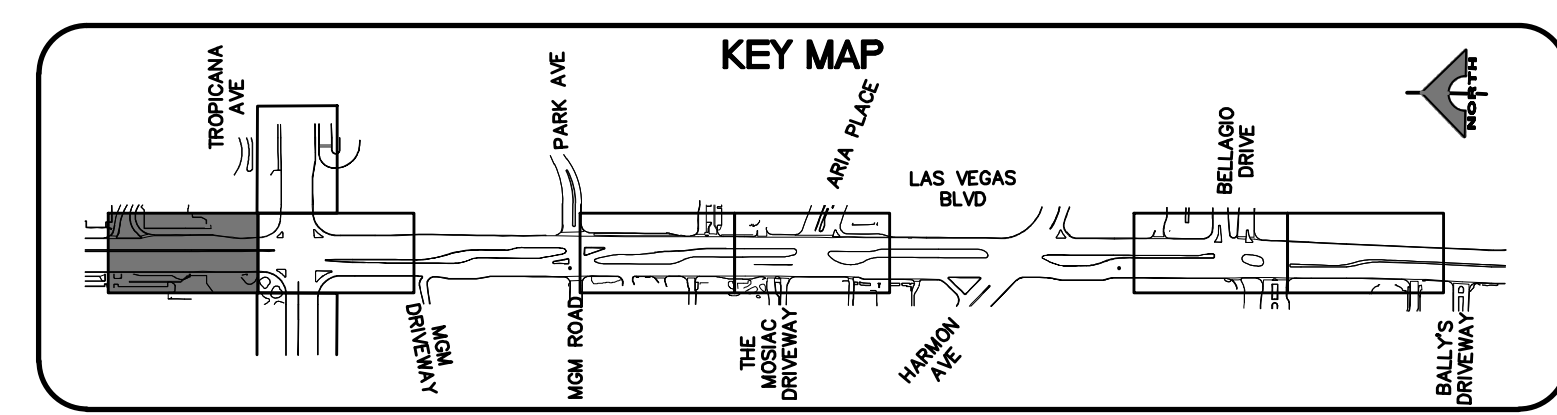
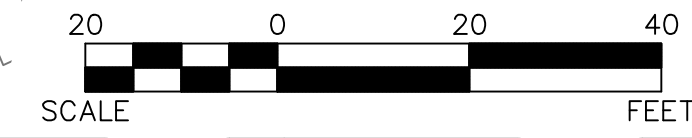
SCALE	DRAWING NO.
HORIZ: NONE	<b>DT-11</b>
VERT: NONE	SHT. 68 OF 169
FIELD BOOK	L-2304

BID NO.: 603978-21





SEE DETAIL B, DRAWING DG-12 FOR GRADING DETAILS



**LEGEND**

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

**CALL BEFORE YOU DO OVERHEAD**

Avoid hitting overhead power lines. It's costly.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

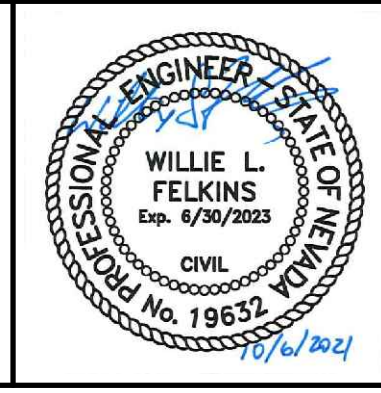


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**DETAILED GRADING PLAN**

**"LVB" 146+50.00 TO "LVB" 152+50.00**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: MVD  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: **GCV**  
 ENGINEERS \ SURVEYORS

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

SCALE

HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO. **DG-1**

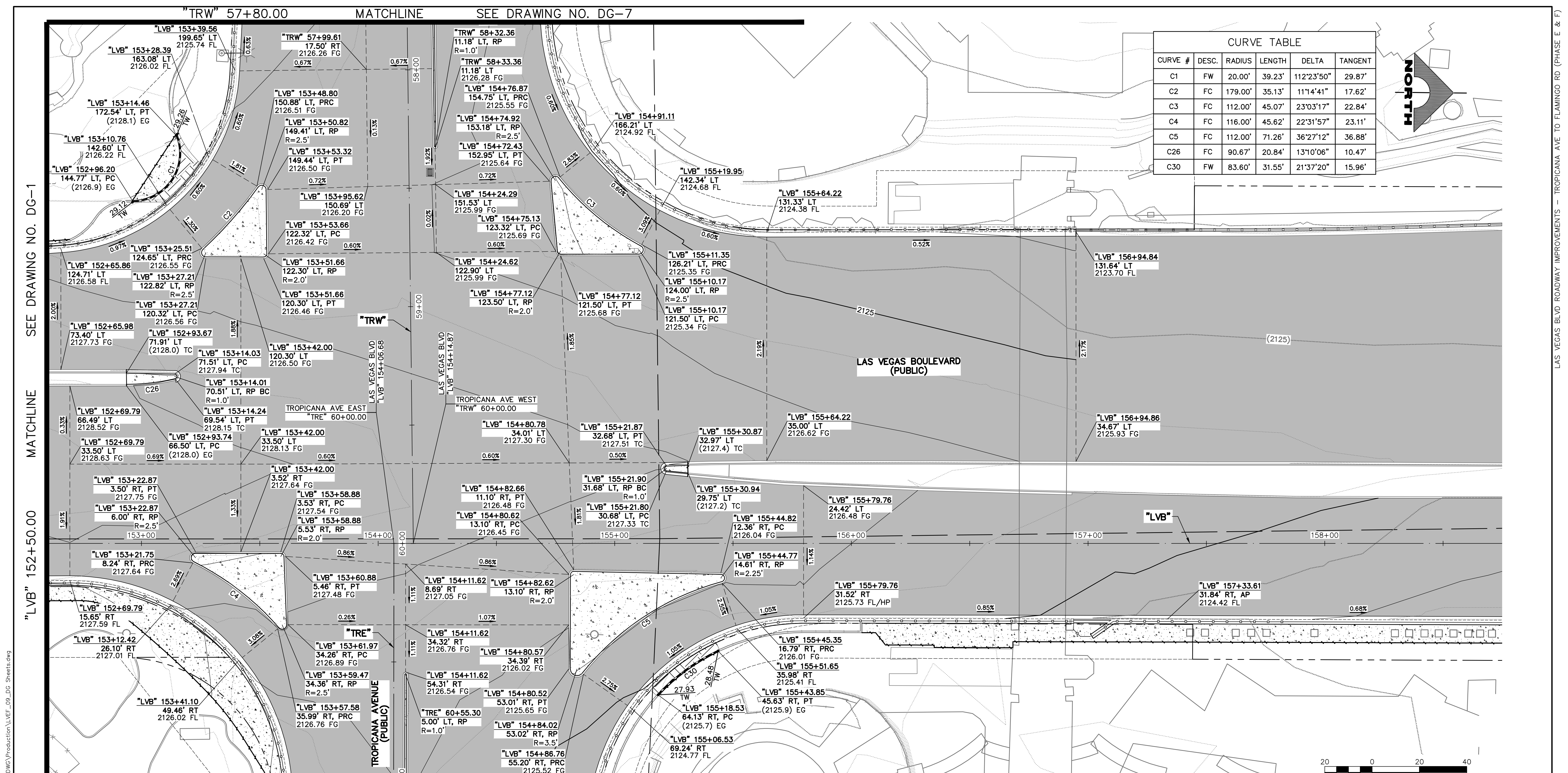
SHT. 69 OF 169

L-2304

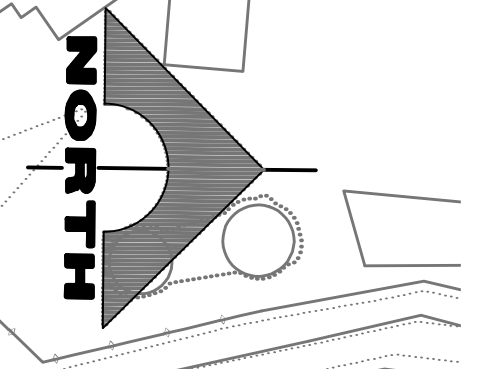
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)





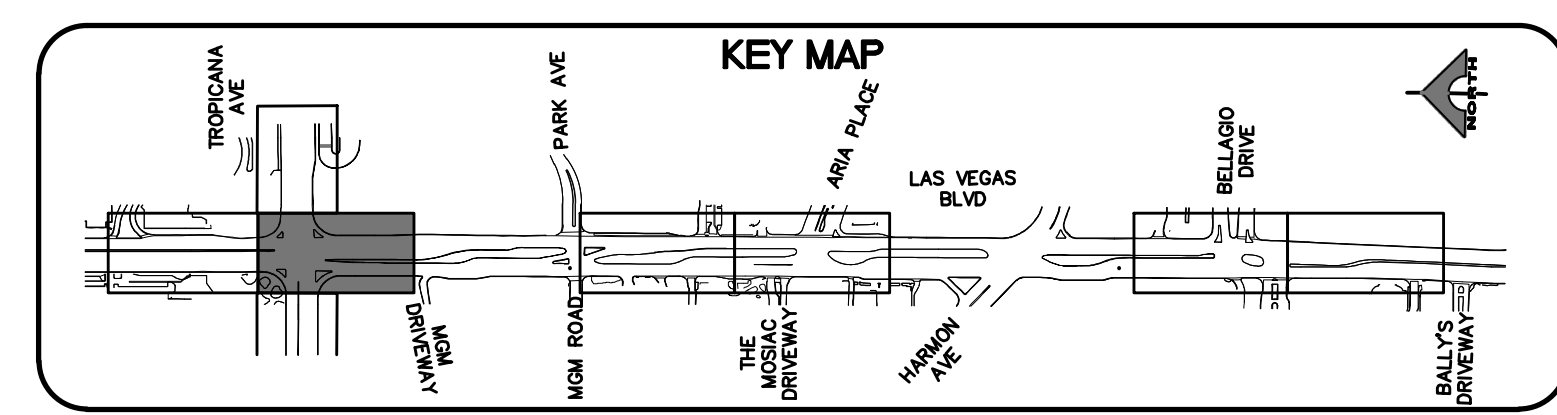
CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C1	FW	20.00'	39.23'	112°23'50"	29.87'
C2	FC	179.00'	35.13'	11°14'41"	17.62'
C3	FC	112.00'	45.07'	23°03'17"	22.84'
C4	FC	116.00'	45.62'	22°31'57"	23.11'
C5	FC	112.00'	71.26'	36°27'12"	36.88'
C26	FC	90.67'	20.84'	13°10'06"	10.47'
C30	FW	83.60'	31.55'	21°37'20"	15.96'



10-13-21 11:41:27 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_09\_DG\_Sheets.dwg  
 "LVB" 152+50.00 MATCHLINE SEE DRAWING NO. DG-1  
 MATCHLINE SEE DRAWING NO. DG-8

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)  
 BID NO.: 603976-21

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



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

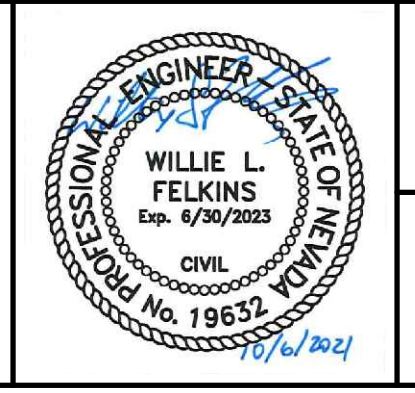
1-702-227-2929

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

Call before you Dig  
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

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



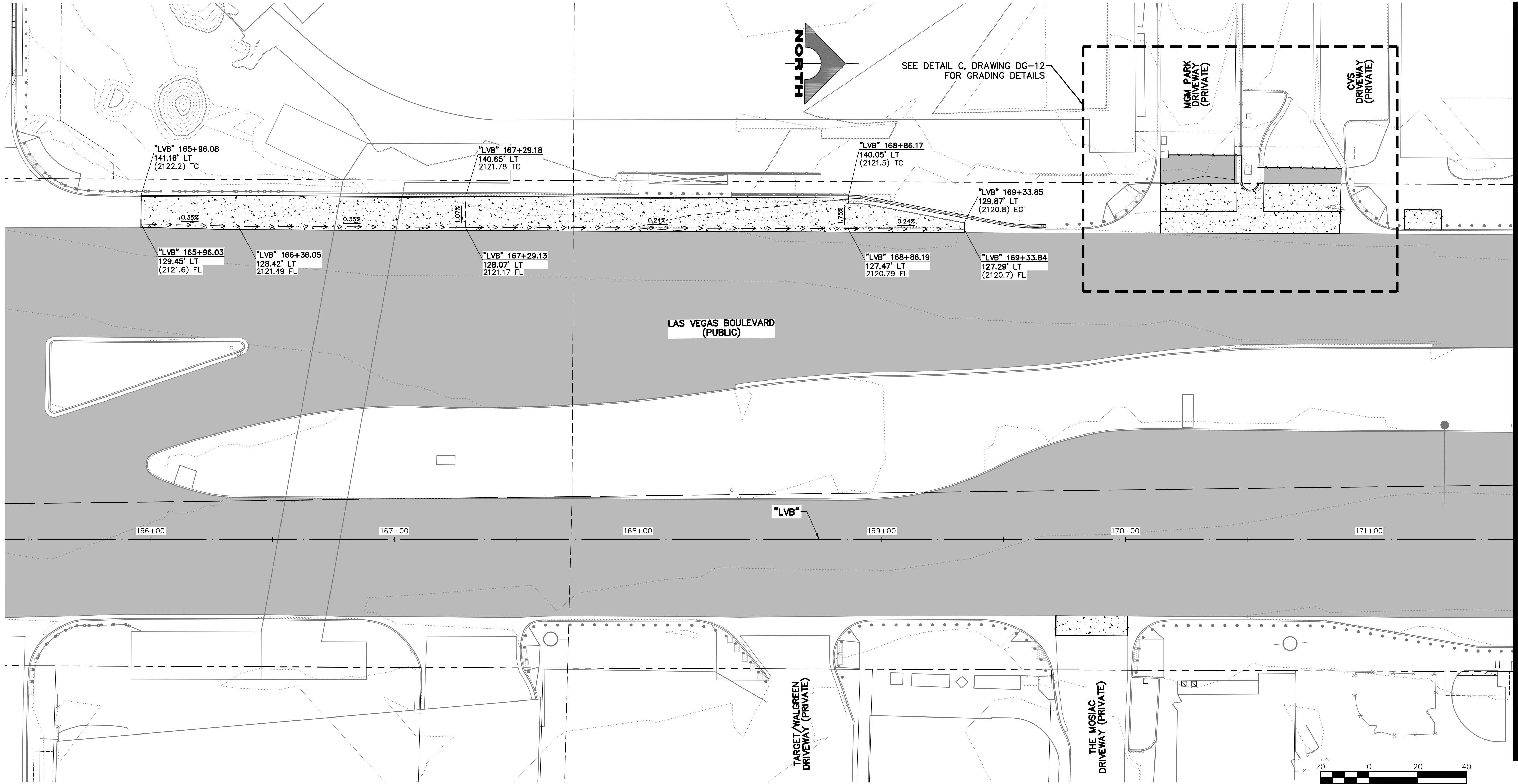
PROJECT No: 500-897-LV-EF DRAWN BY: MVD  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY:

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

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



10-13-21 11:41:33 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_09\_DG\_Sheets.dwg



**LEGEND**

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

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

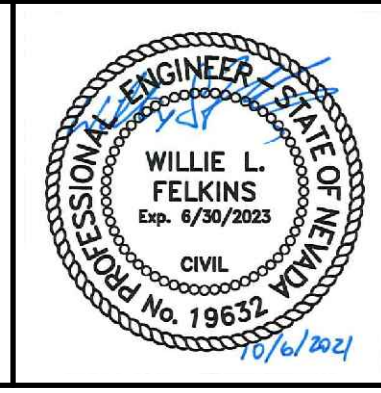
**FAST**  
**Call before you UnderGround.**  
 1-702-432-5300  
 FREIGHTWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**  
 AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  
**Call 811**  
 OR  
 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



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



PROJECT No: 500-897-LV-EF  
 DESIGNED BY: DSH  
 APPROVED BY: \_\_\_\_\_  
 DRAWN BY: MVD  
 CHECKED BY: WLF  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
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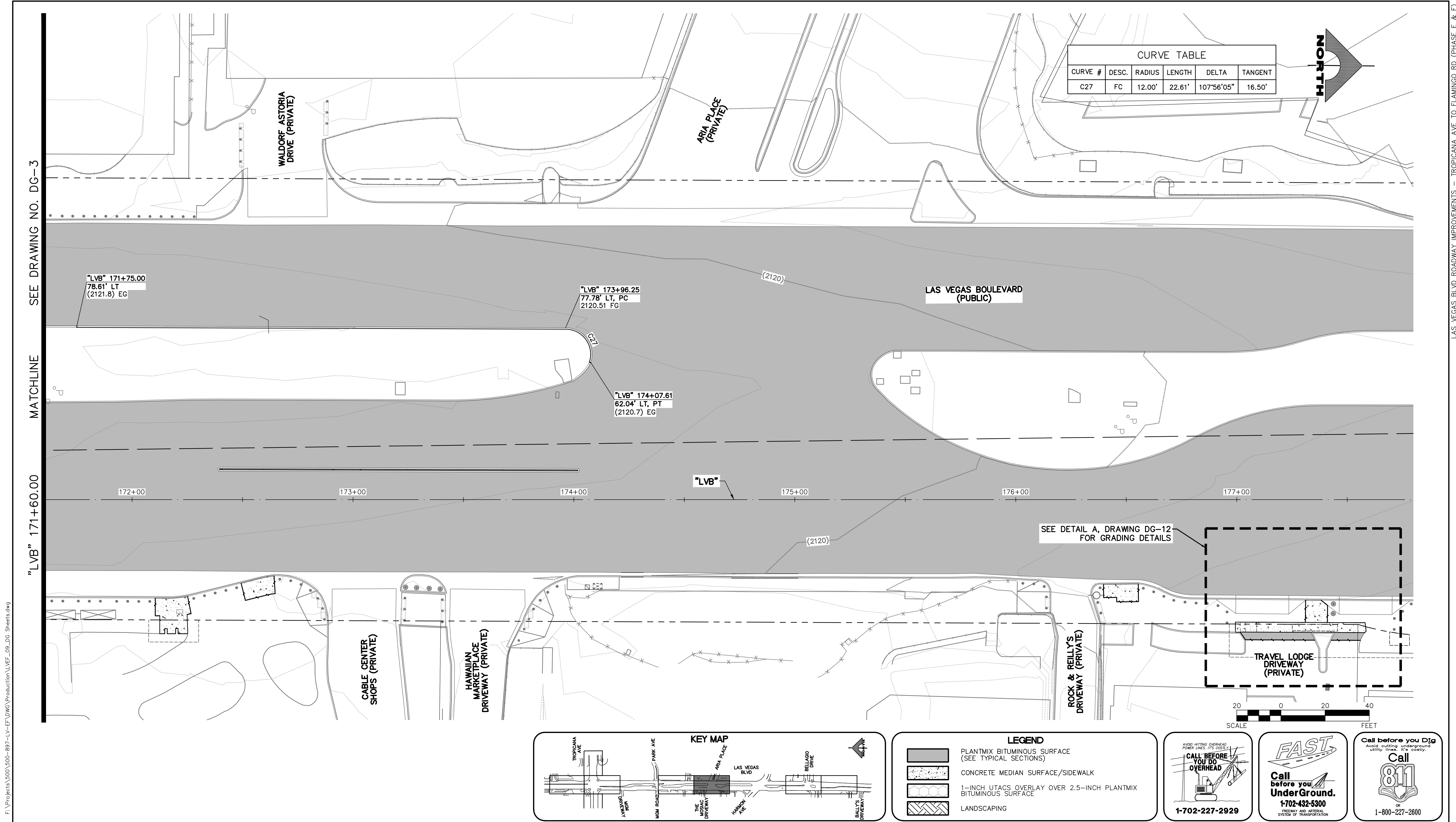
**SCALE**

HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

**DRAWING NO.**  
 DG-3  
**SHT.** 71 OF 169  
 L-2304

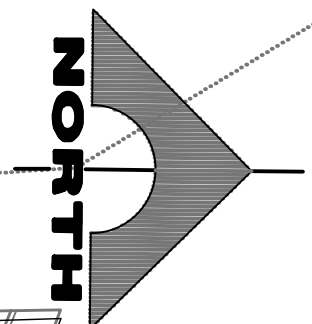
SEE DRAWING NO. DG-4 MATCHLINE "LVB" 171+60.00 LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)





**CURVE TABLE**

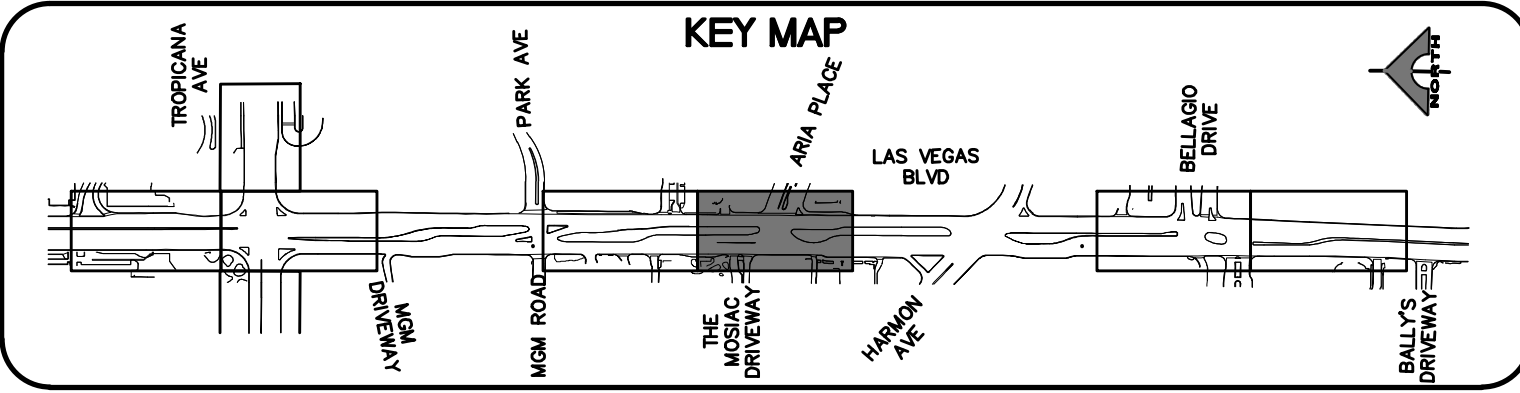
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C27	FC	12.00'	22.61'	107°56'05"	16.50'



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

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

SEE DETAIL A, DRAWING DG-12 FOR GRADING DETAILS



**LEGEND**

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

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

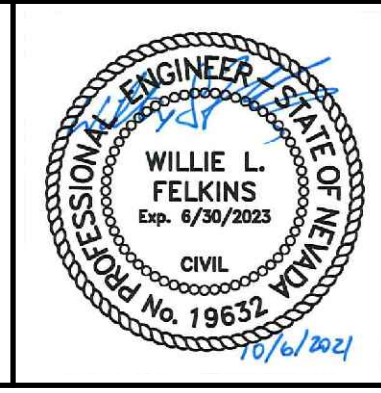
**FAST**  
**Call before you UnderGround.**  
 1-702-432-5300  
 FREQUENT AND ARTERIAL SYSTEM OF TRANSPORTATION

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK

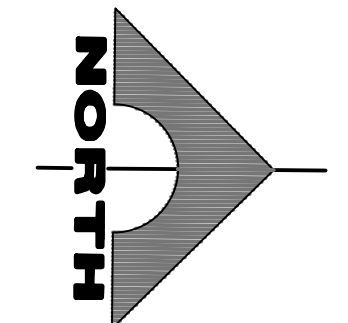
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 SHT. 72 OF 169  
 L-2304



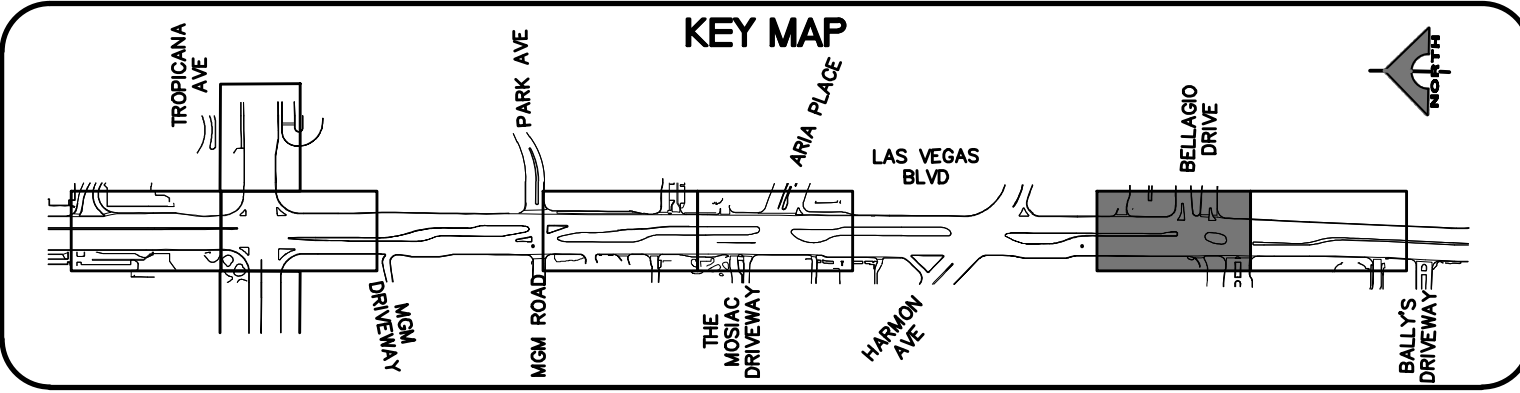
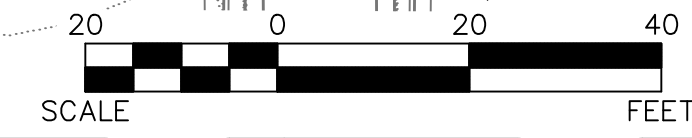
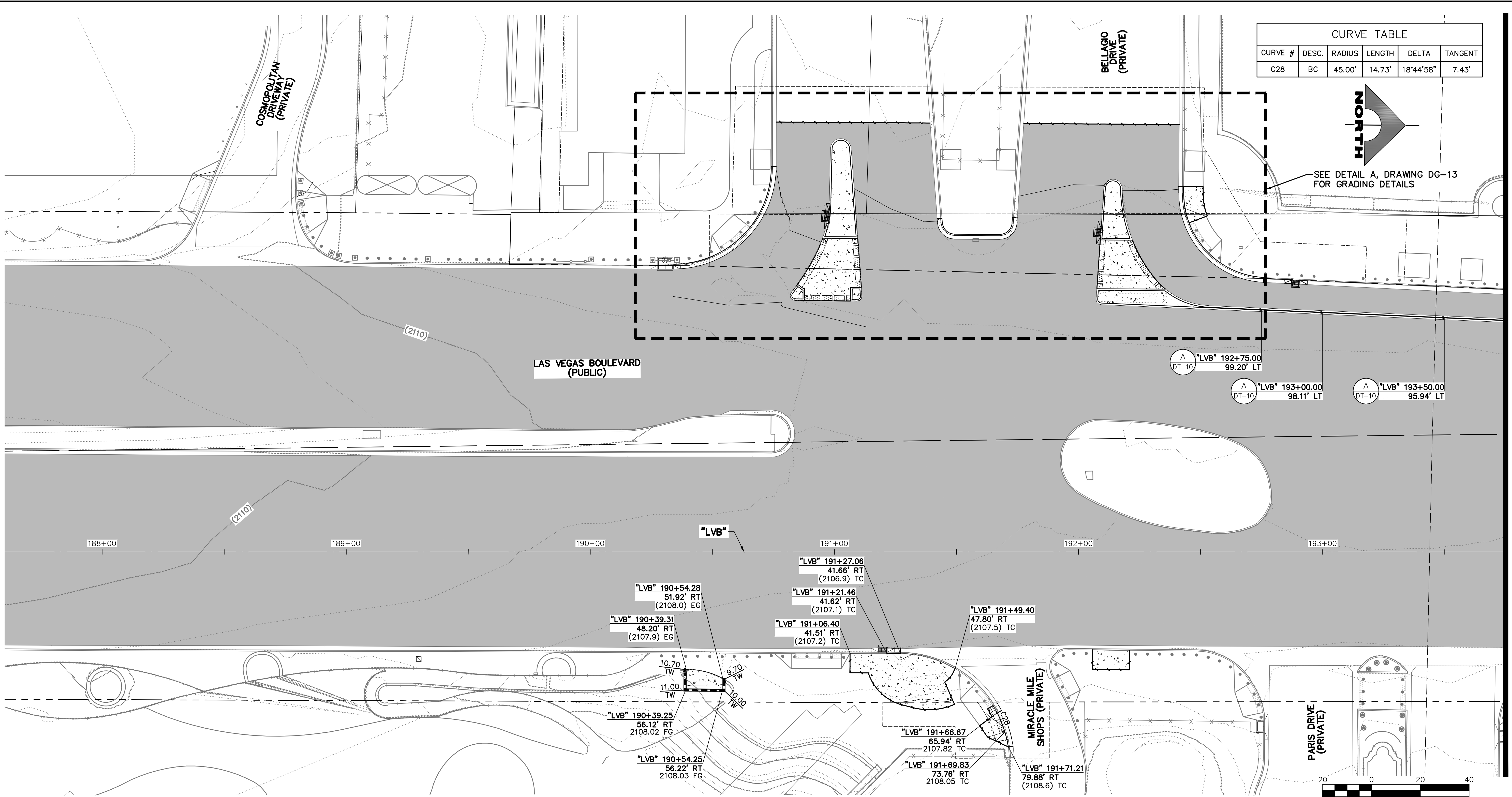
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

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

CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C28	BC	45.00'	14.73'	18°44'58"	7.43'



SEE DETAIL A, DRAWING DG-13 FOR GRADING DETAILS



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

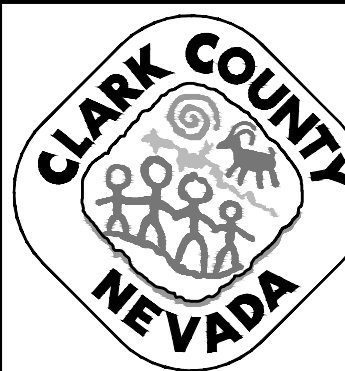
**CALL BEFORE YOU DIG OVERHEAD**  
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
1-702-227-2929

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

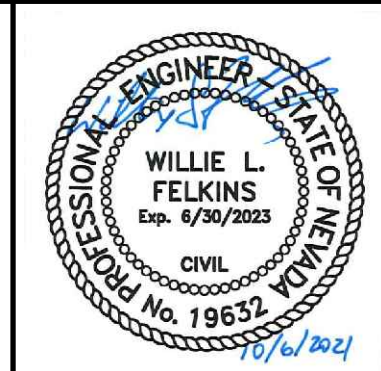
**Call before you Dig**  
Call 811  
1-800-227-2600

10-13-21 11:41:44 F:\Projects\500\500-897-LV-EF\DWG\Production\LV\_EF\_DG\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	

DRAWING NO. **DG-5**  
 SHT. 73 OF 169  
 L-2304

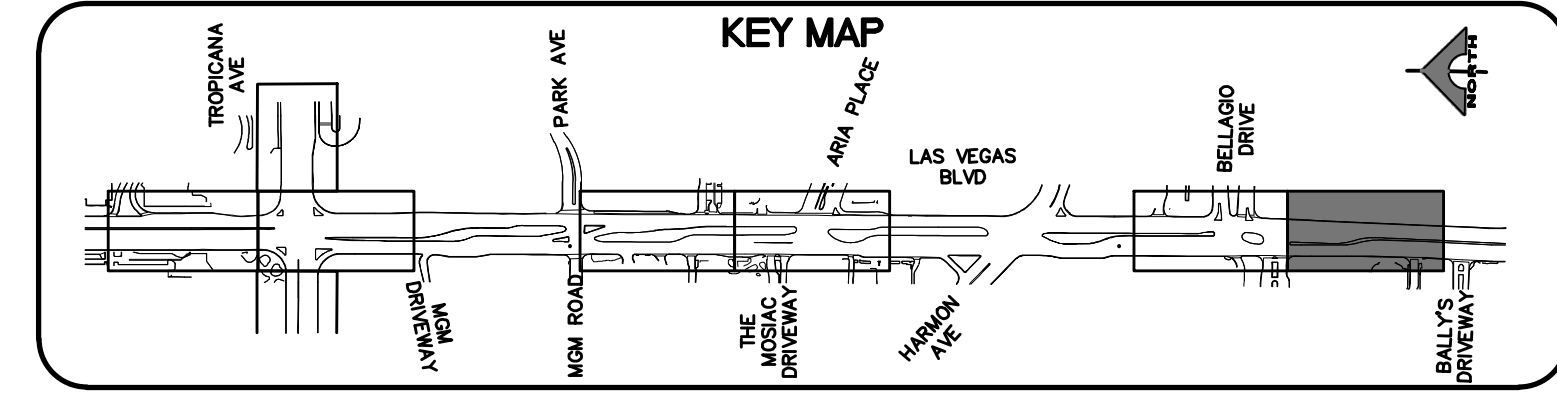
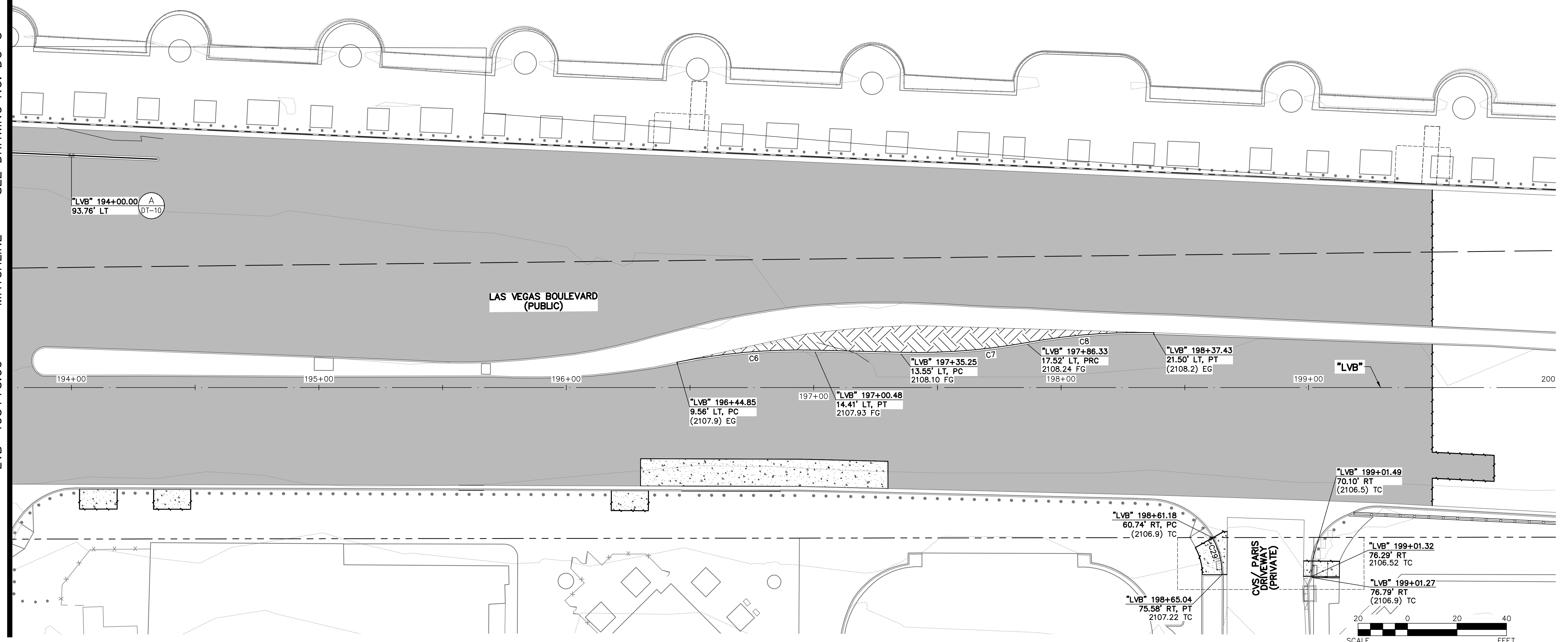
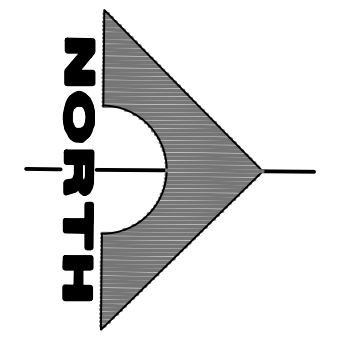
BID NO.: 603976-21



10-13-21 11:41:49 F:\Projects\500\500-897-LV-EF\DWG\Production\LVEF\_09\_DG\_Sheets.dwg

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

CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C6	FC	250.00'	55.96'	12°49'31"	28.10'
C7	FC	250.00'	51.33'	11°45'50"	25.76'
C8	FC	250.00'	51.34'	11°46'02"	25.76'
C29	BC	30.00'	15.51'	29°37'19"	7.93'



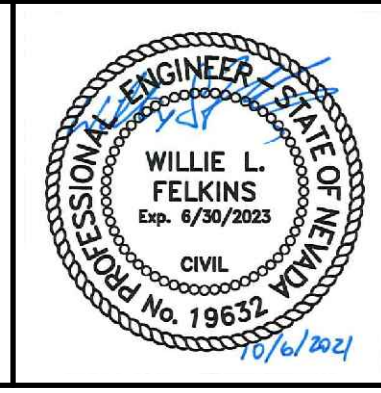
LEGEND	
	PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS)
	CONCRETE MEDIAN SURFACE/SIDEWALK
	1-INCH UTACS OVERLAY OVER 2.5-INCH PLANTMIX BITUMINOUS SURFACE
	LANDSCAPING



REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

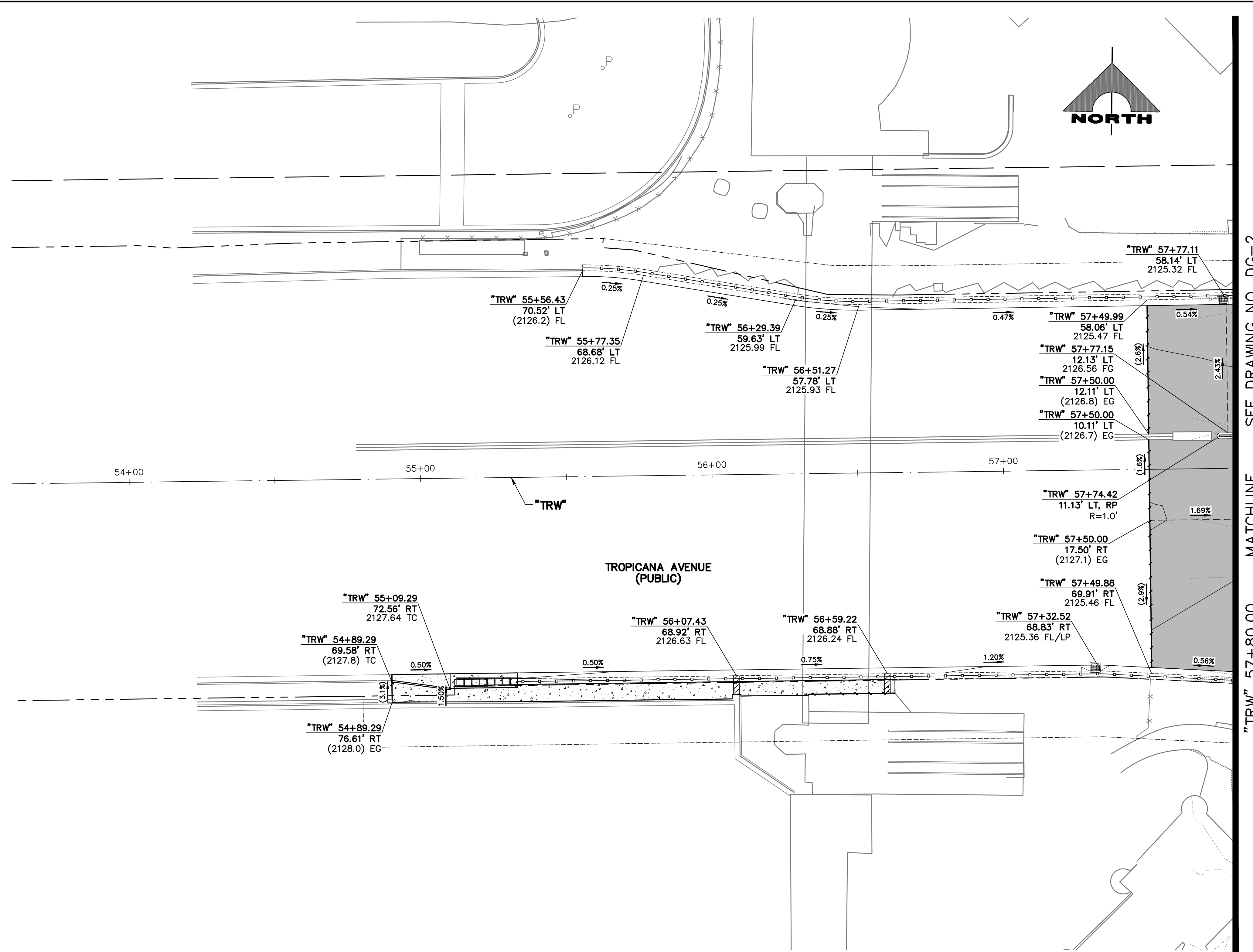
SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	

DRAWING NO. **DG-6**  
 SHT. 74 OF 169  
 L-2304

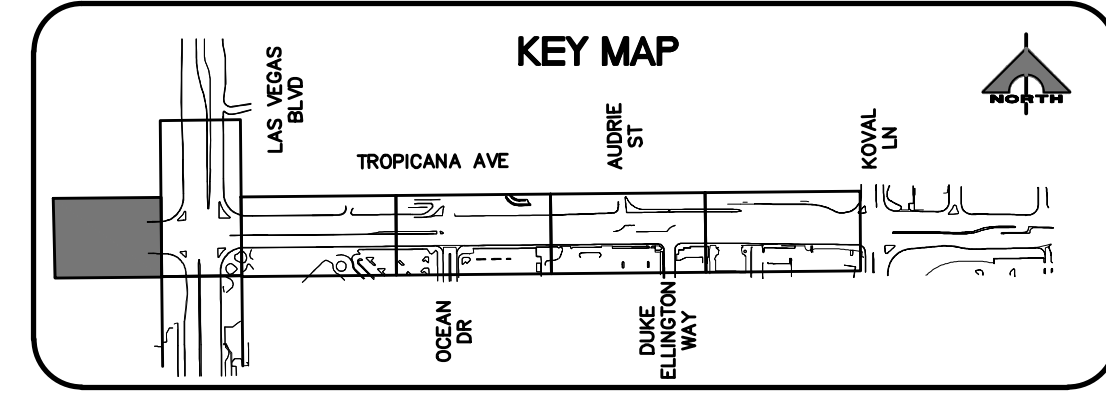
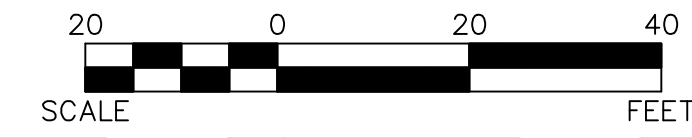
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



10-13-21 11:42:37 F:\Projects\500-897-LV-EF\DWG\Production\VEF\_09A\_DG\_Sheets.dwg



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



**LEGEND**

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

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

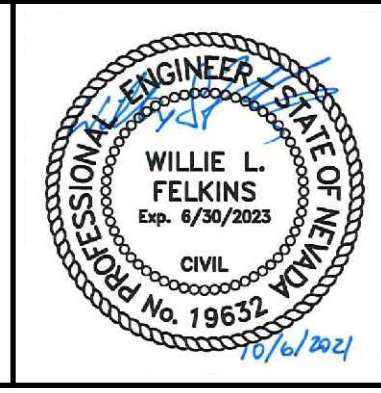
**FAST**  
**Call before you UnderGround.**  
 1-702-432-5300  
 FREIGHTWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**  
 AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  
**Call 811**  
 OR  
 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

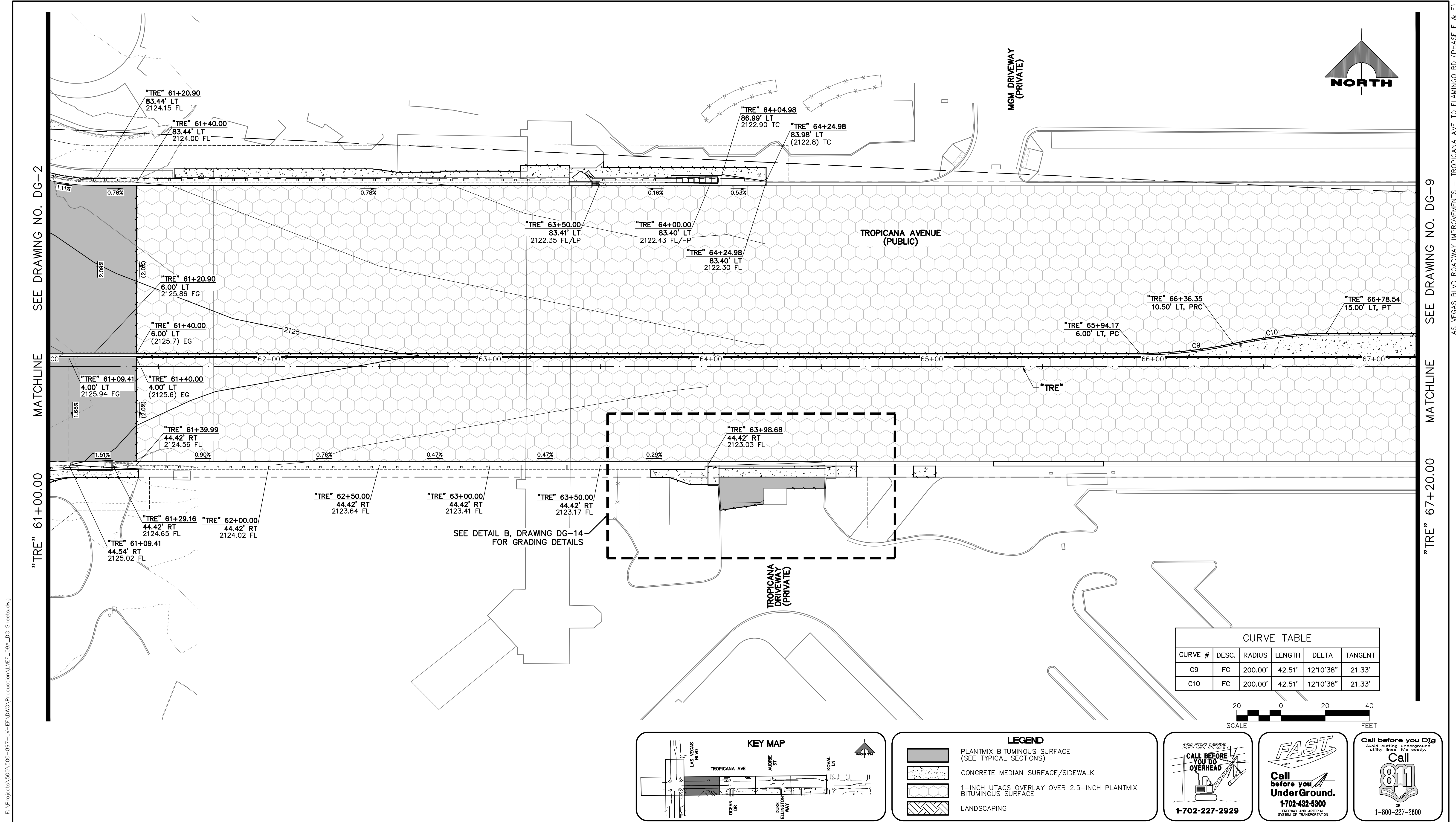
**SCALE**

HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	

DRAWING NO. **DG-7**  
 SHT. 75 OF 169  
 L-2304

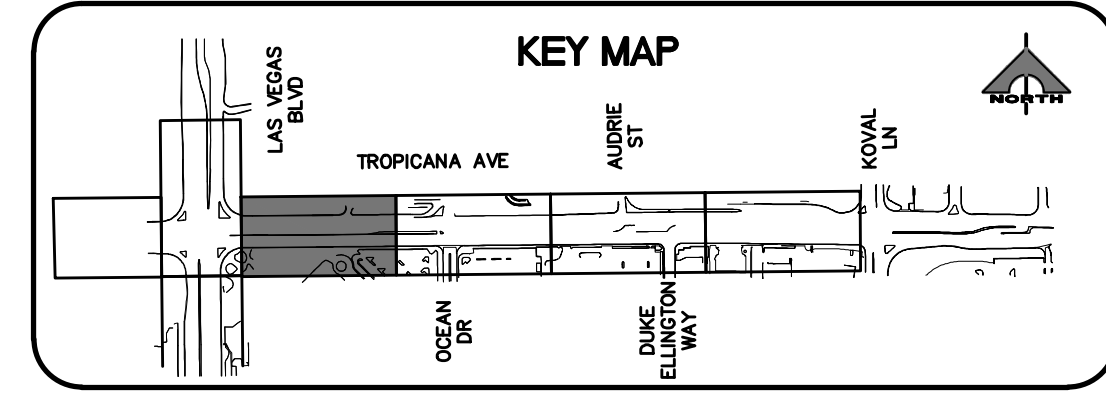
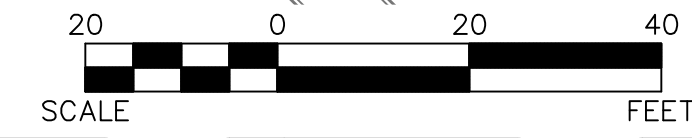
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)  
 BID NO.: 603976-21





**CURVE TABLE**

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



**LEGEND**

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

**CALL BEFORE YOU DIG OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR  
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

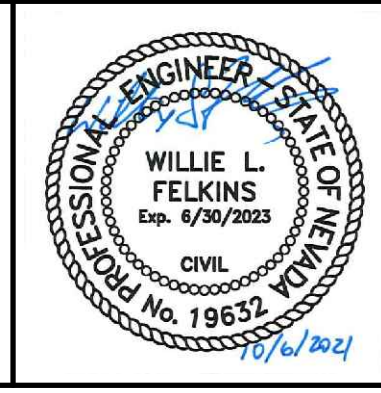


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**DETAILED GRADING PLAN**

**"TRE" 61+00.00 TO "TRE" 67+20.00**

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



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

**GCV**  
ENGINEERS \ SURVEYORS

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

**SCALE**

HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO. **DG-8**

SHT. 76 OF 169

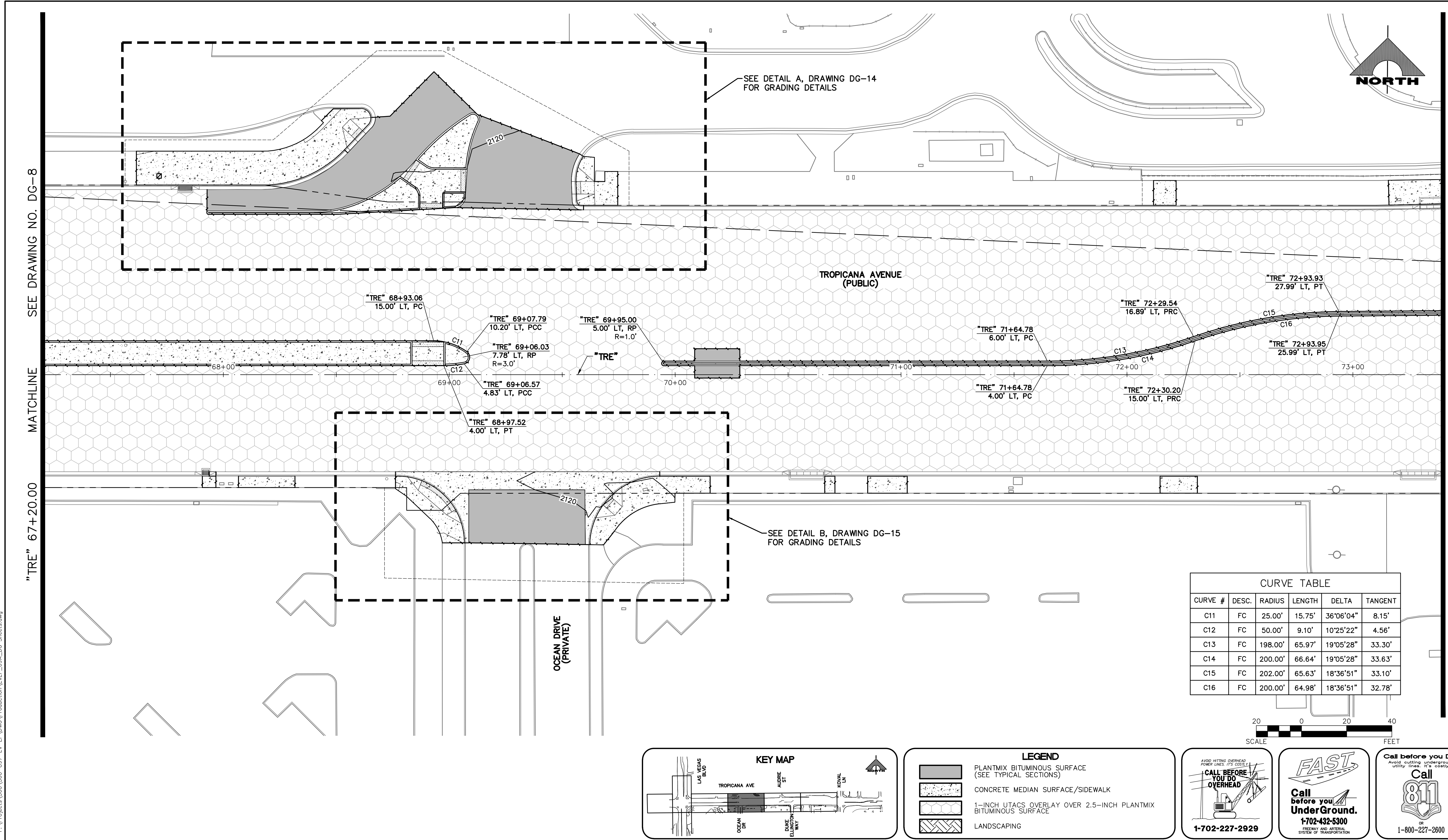
L-2304

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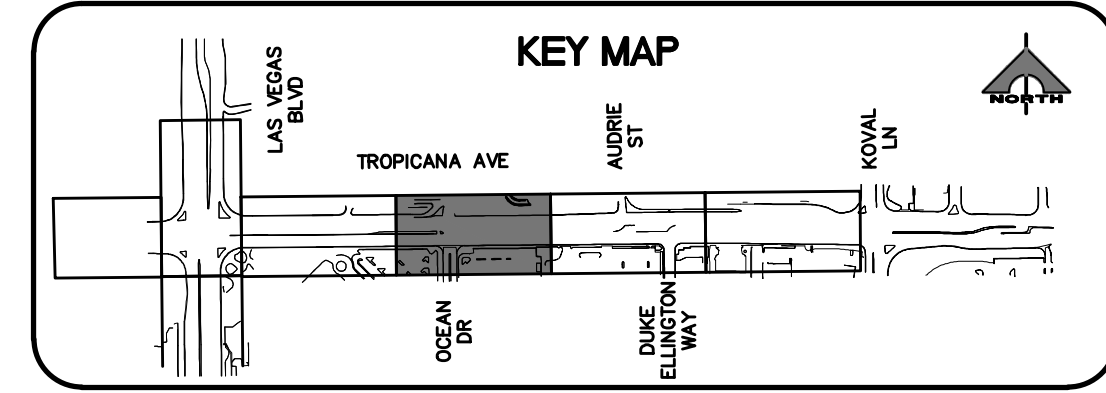
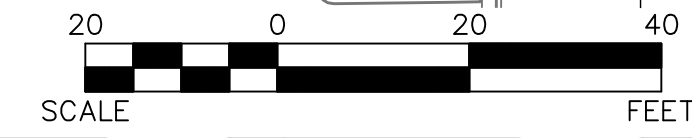
SEE DRAWING NO. DG-2 MATCHLINE "TRE" 61+00.00 MATCHLINE "TRE" 67+20.00 SEE DRAWING NO. DG-9 LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



10-13-21 11:42:47 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_09A\_D0\_Sheets.dwg



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



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

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

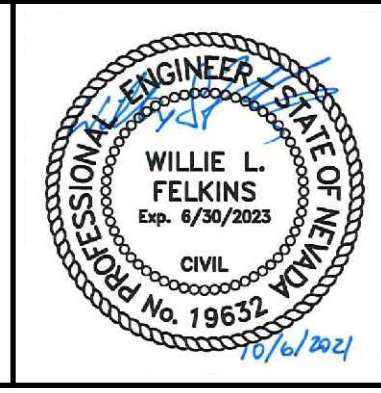
**FAST Call before you UnderGround.**  
 1-702-432-5300  
 FREIGHTWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

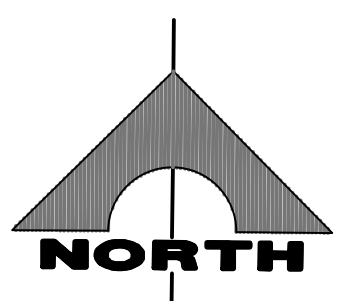
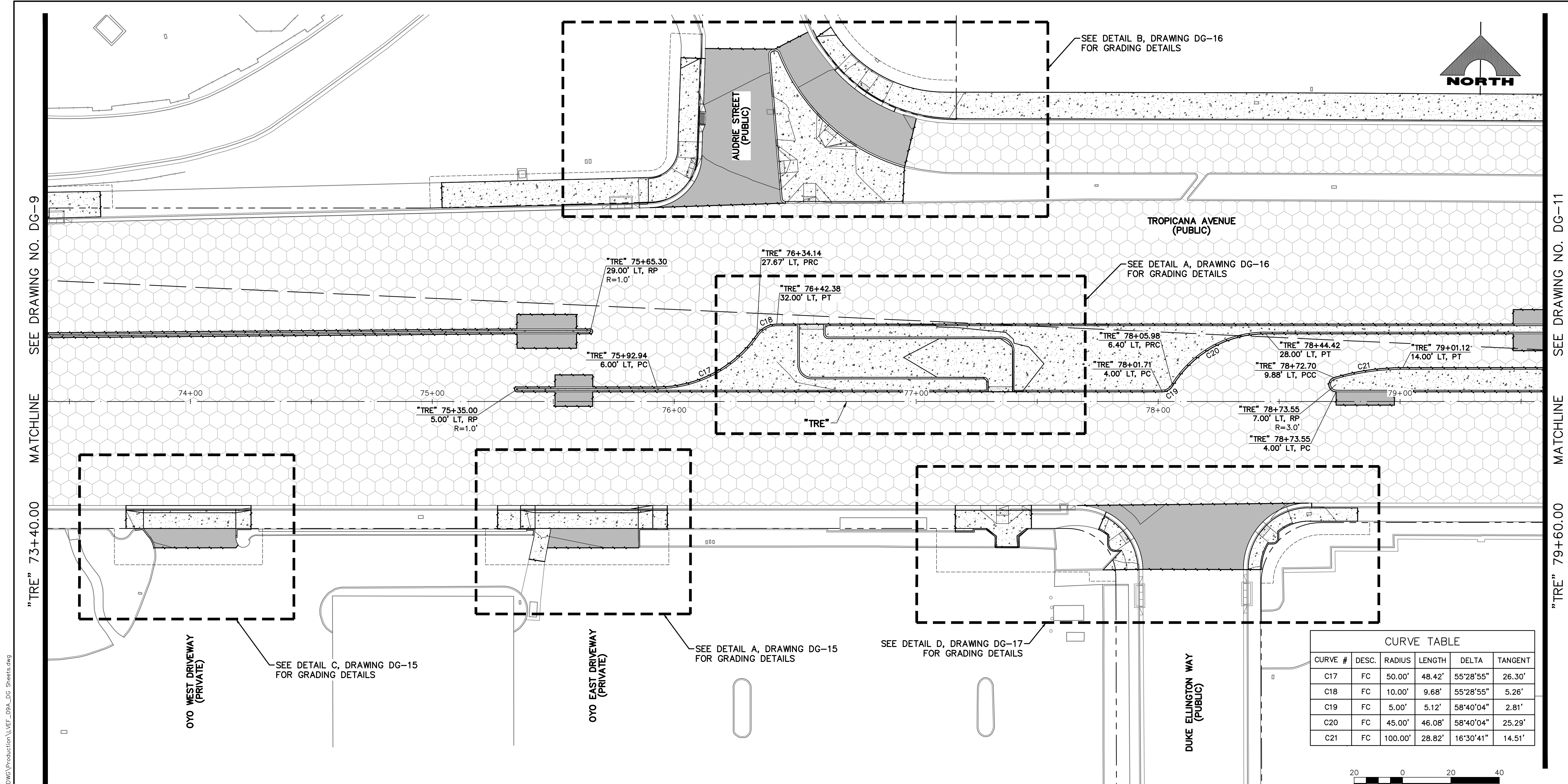
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK

DRAWING NO. **DG-9**  
 SHT. 77 OF 169  
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





SEE DETAIL B, DRAWING DG-16 FOR GRADING DETAILS

TROPICANA AVENUE (PUBLIC)

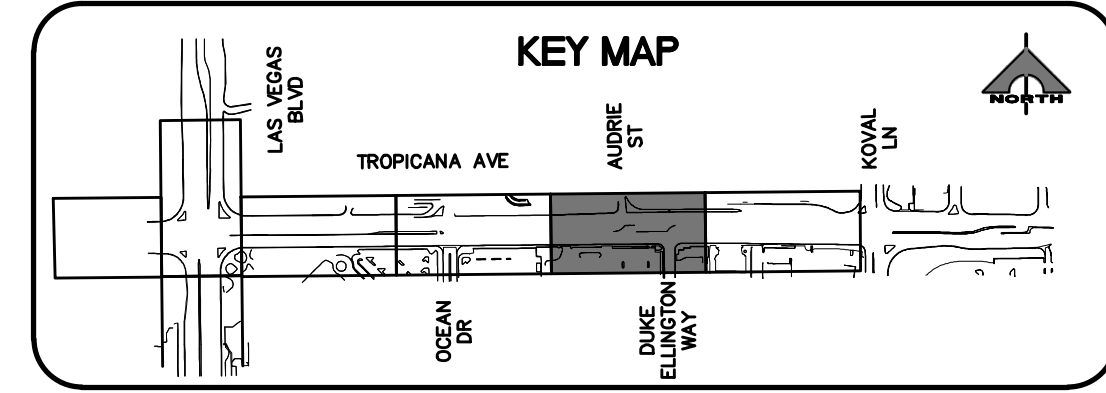
SEE DETAIL A, DRAWING DG-16 FOR GRADING DETAILS

SEE DETAIL A, DRAWING DG-15 FOR GRADING DETAILS

SEE DETAIL D, DRAWING DG-17 FOR GRADING DETAILS

SEE DETAIL C, DRAWING DG-15 FOR GRADING DETAILS

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



**LEGEND**

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

**CALL BEFORE YOU DIG OVERHEAD**

Avoid hitting overhead power lines. It's costly.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREIGHTWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

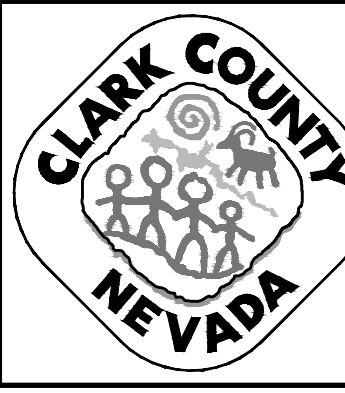
Avoid cutting underground utility lines. It's costly.

**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

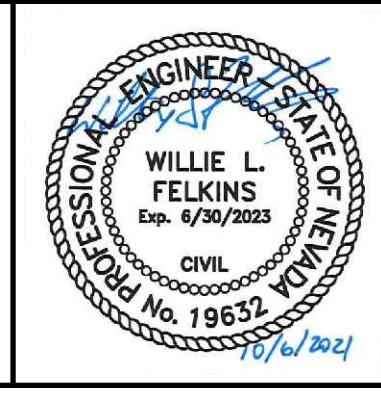


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**DETAILED GRADING PLAN**

**"TRE" 73+40.00 TO "TRE" 79+60.00**

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



PROJECT No: 500-897-LV-EF DRAWN BY: MVD  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: **GCV** ENGINEERS \ SURVEYORS

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

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

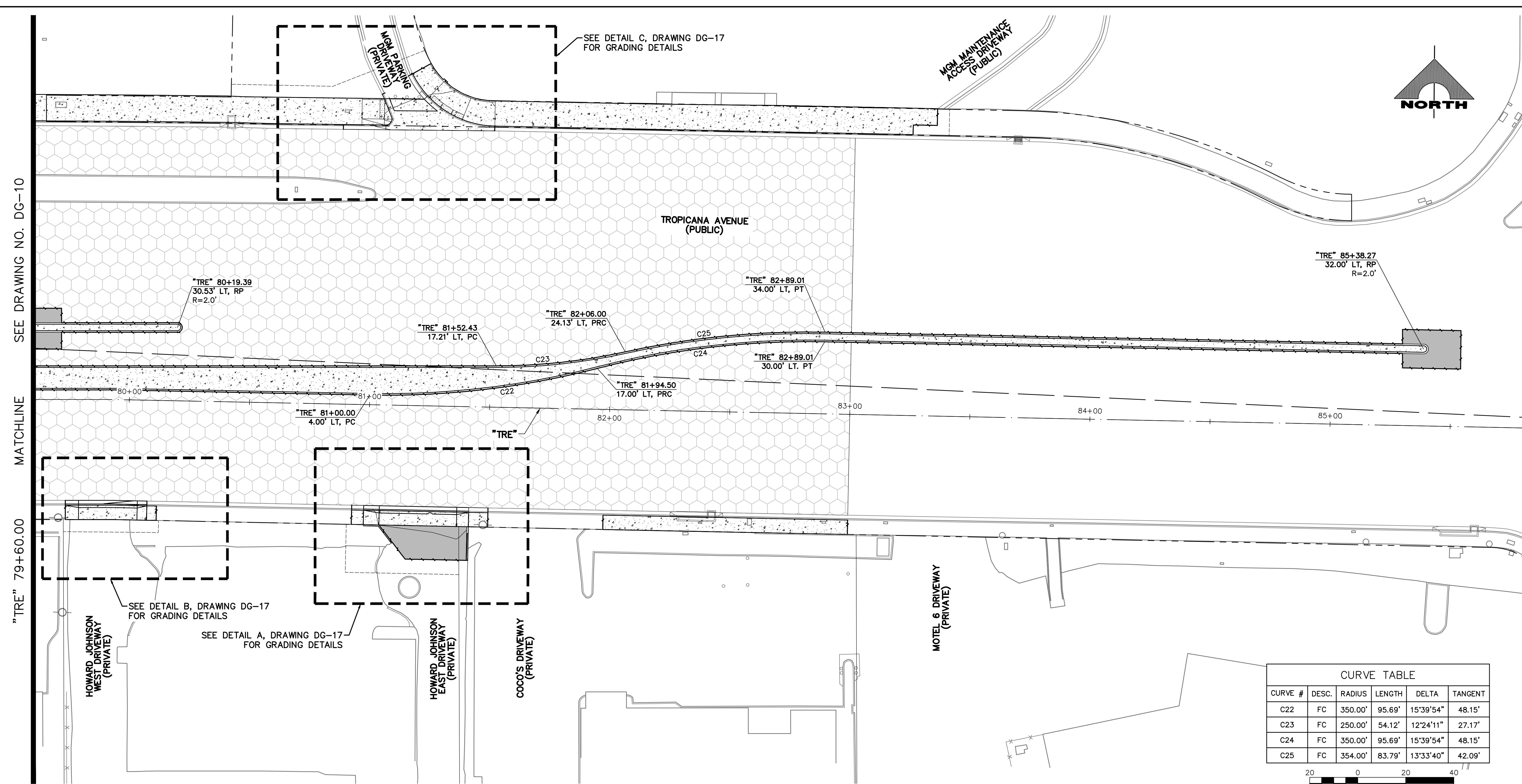
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 SHT. 78 OF 169  
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



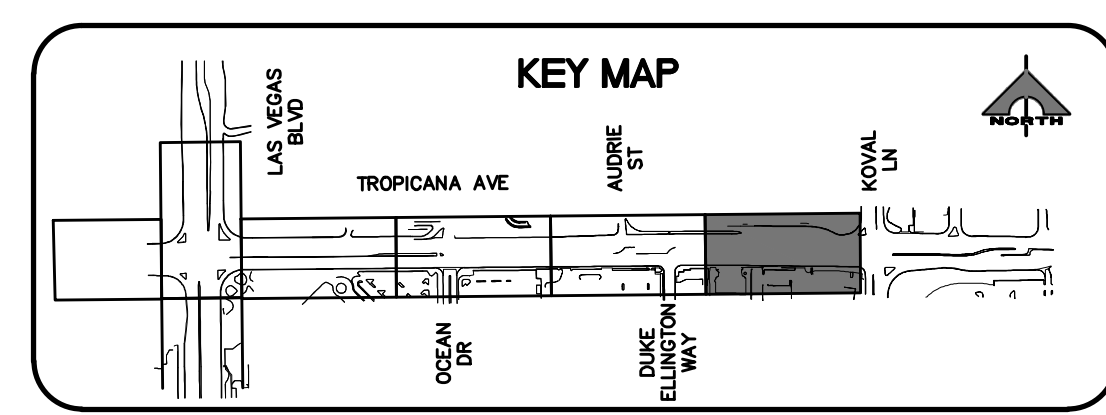
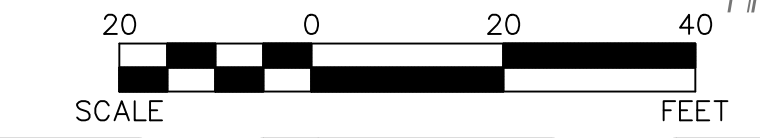
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SEE DRAWING NO. DG-10  
MATCHLINE  
"TRE" 79+60.00

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

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



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

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

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

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

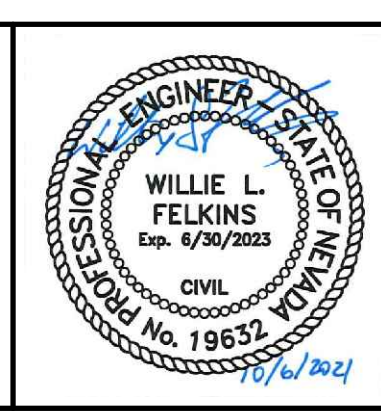
REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**DETAILED GRADING PLAN**

**"TRE" 79+60.00 TO "TRE" 85+80.00**

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



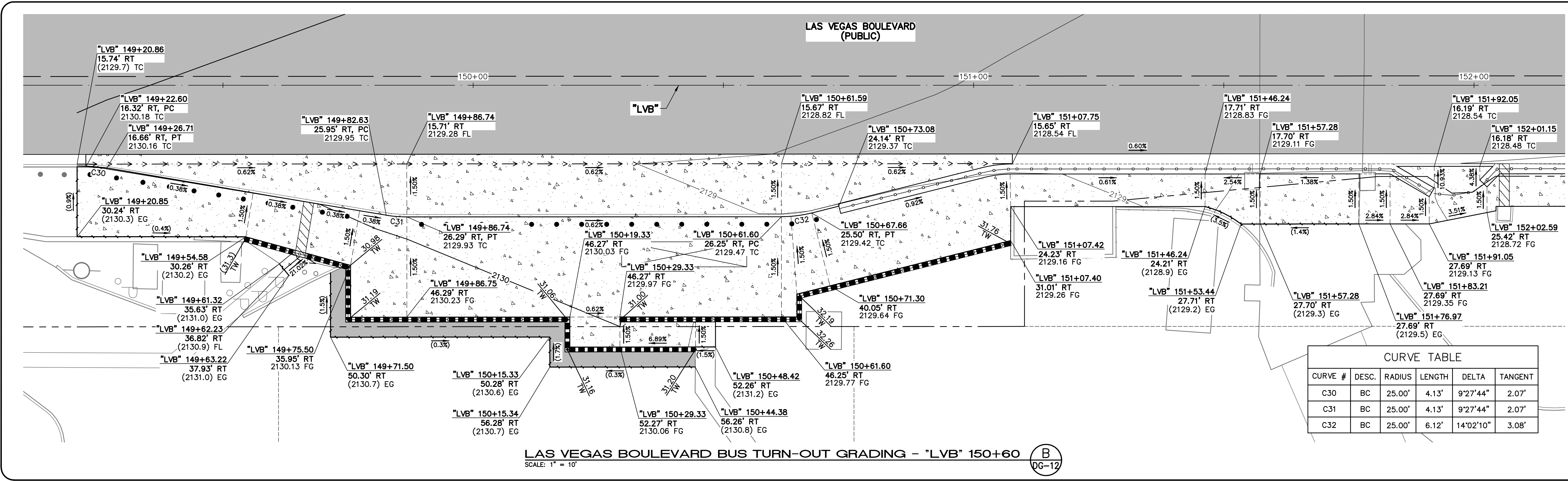
PROJECT No: 500-897-LV-EF    DRAWN BY: MVD  
 DESIGNED BY: DSH    CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

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

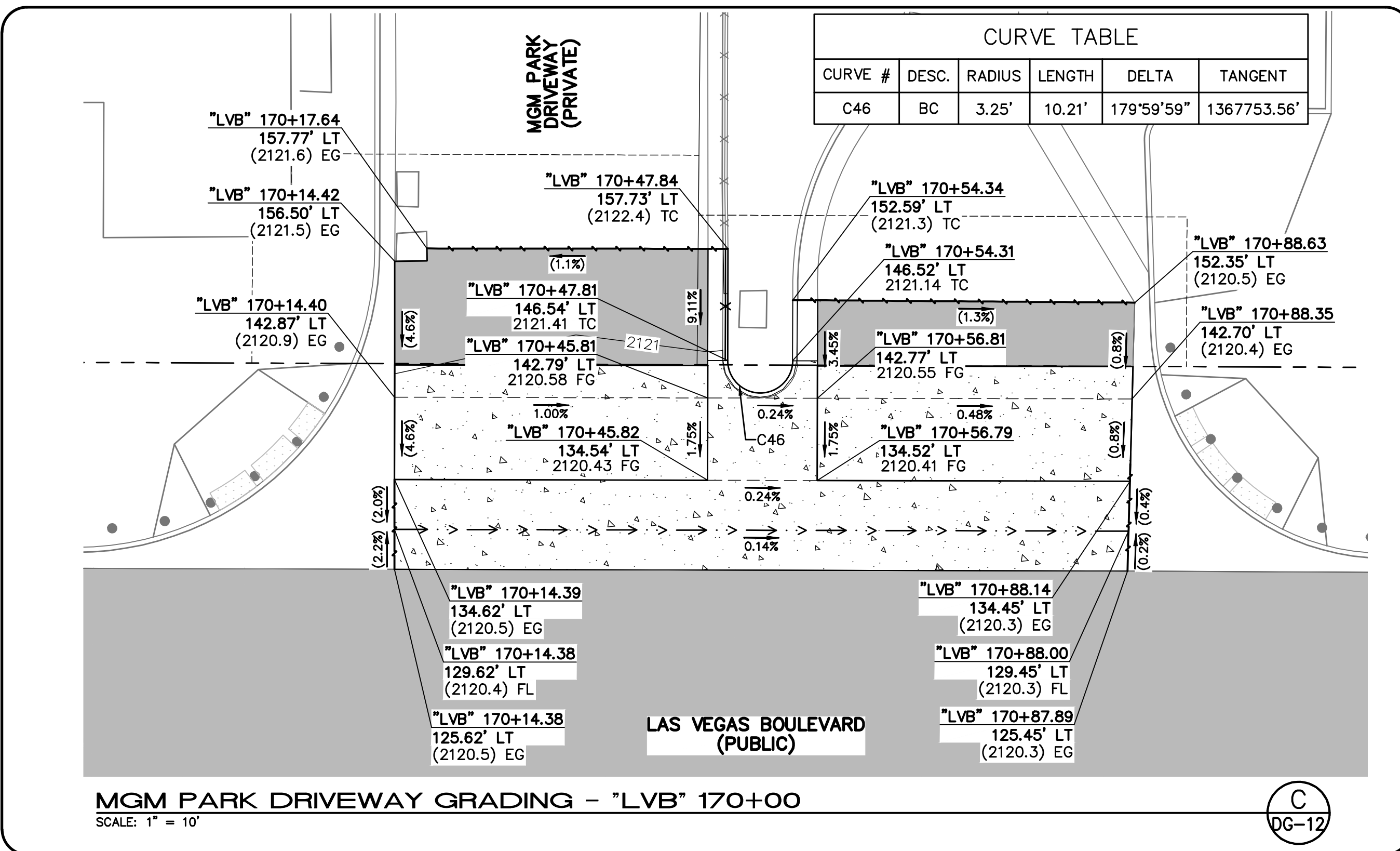
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HORIZ:	AS SHOWN	<b>DG-11</b>
VERT:	NONE	
FIELD BOOK		SHT. 79 OF 169
		L-2304

BID NO.: 603978-21

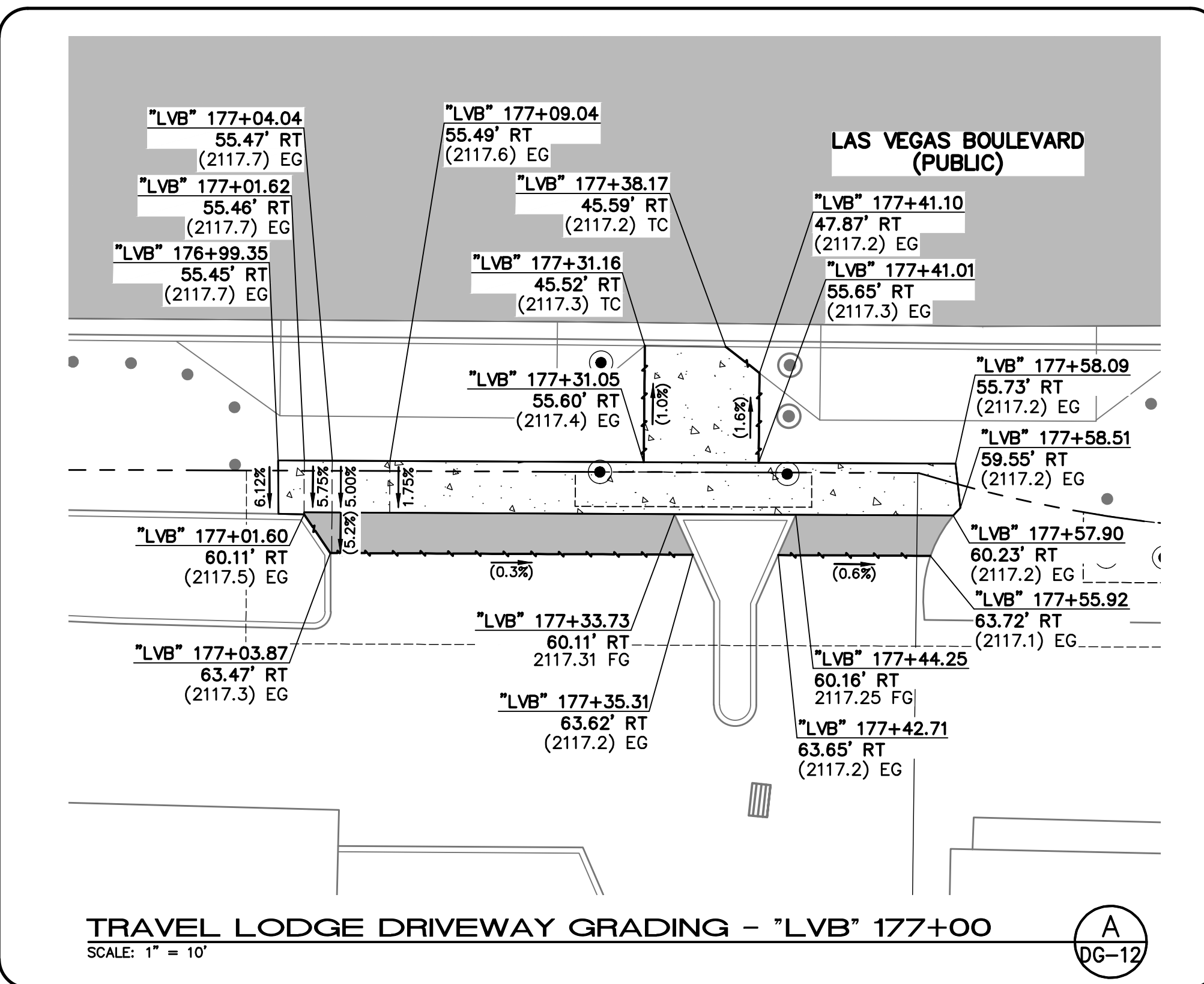




LAS VEGAS BOULEVARD BUS TURN-OUT GRADING - "LVB" 150+60 (B) DG-12  
SCALE: 1" = 10'



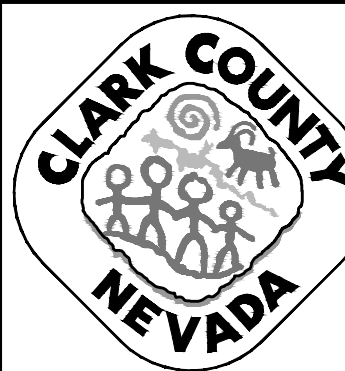
MGM PARK DRIVEWAY GRADING - "LVB" 170+00 (C) DG-12  
SCALE: 1" = 10'



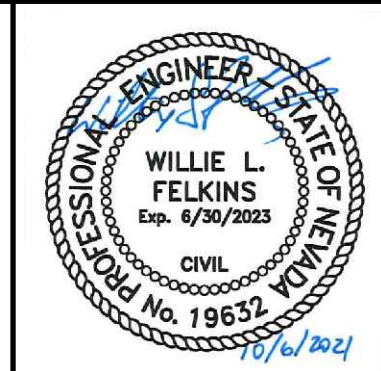
TRAVEL LODGE DRIVEWAY GRADING - "LVB" 177+00 (A) DG-12  
SCALE: 1" = 10'

10-13-21 11:43:12 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_DG\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



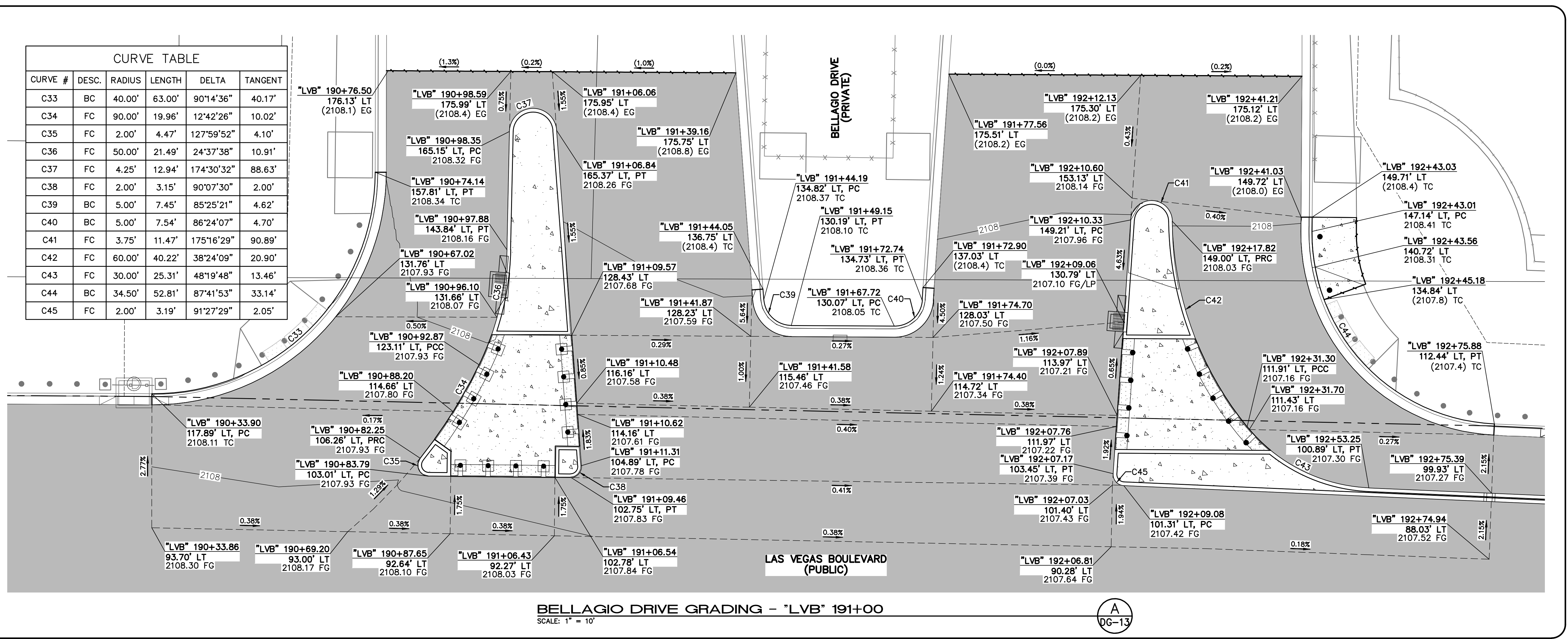
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**GRADING DETAILS**  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

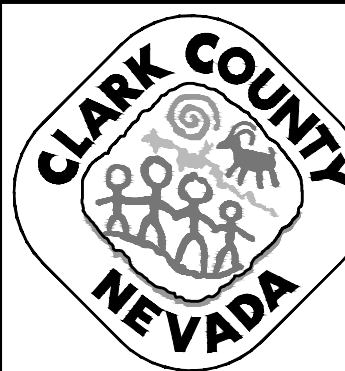




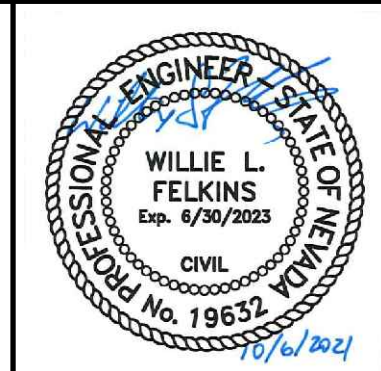
CURVE TABLE					
CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C33	BC	40.00'	63.00'	90°14'36"	40.17'
C34	FC	90.00'	19.96'	12°42'26"	10.02'
C35	FC	2.00'	4.47'	127°59'52"	4.10'
C36	FC	50.00'	21.49'	24°37'38"	10.91'
C37	FC	4.25'	12.94'	174°30'32"	88.63'
C38	FC	2.00'	3.15'	90°07'30"	2.00'
C39	BC	5.00'	7.45'	85°25'21"	4.62'
C40	BC	5.00'	7.54'	86°24'07"	4.70'
C41	FC	3.75'	11.47'	175°16'29"	90.89'
C42	FC	60.00'	40.22'	38°24'09"	20.90'
C43	FC	30.00'	25.31'	48°19'48"	13.46'
C44	BC	34.50'	52.81'	87°41'53"	33.14'
C45	FC	2.00'	3.19'	91°27'29"	2.05'

10-13-21 11:43:18 F:\Projects\500-897-LV-EF\DWG\Production\LVB\_DG\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

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

SCALE	HORIZ: AS SHOWN	VERT: NONE	FIELD BOOK
DRAWING NO.	DG-13		SHT. 81 OF 169
L-2304			

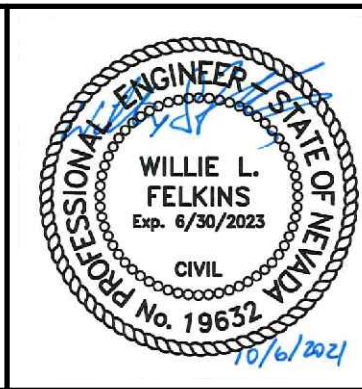


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REV. NO.	DATE	DESCRIPTION	APPROVED



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

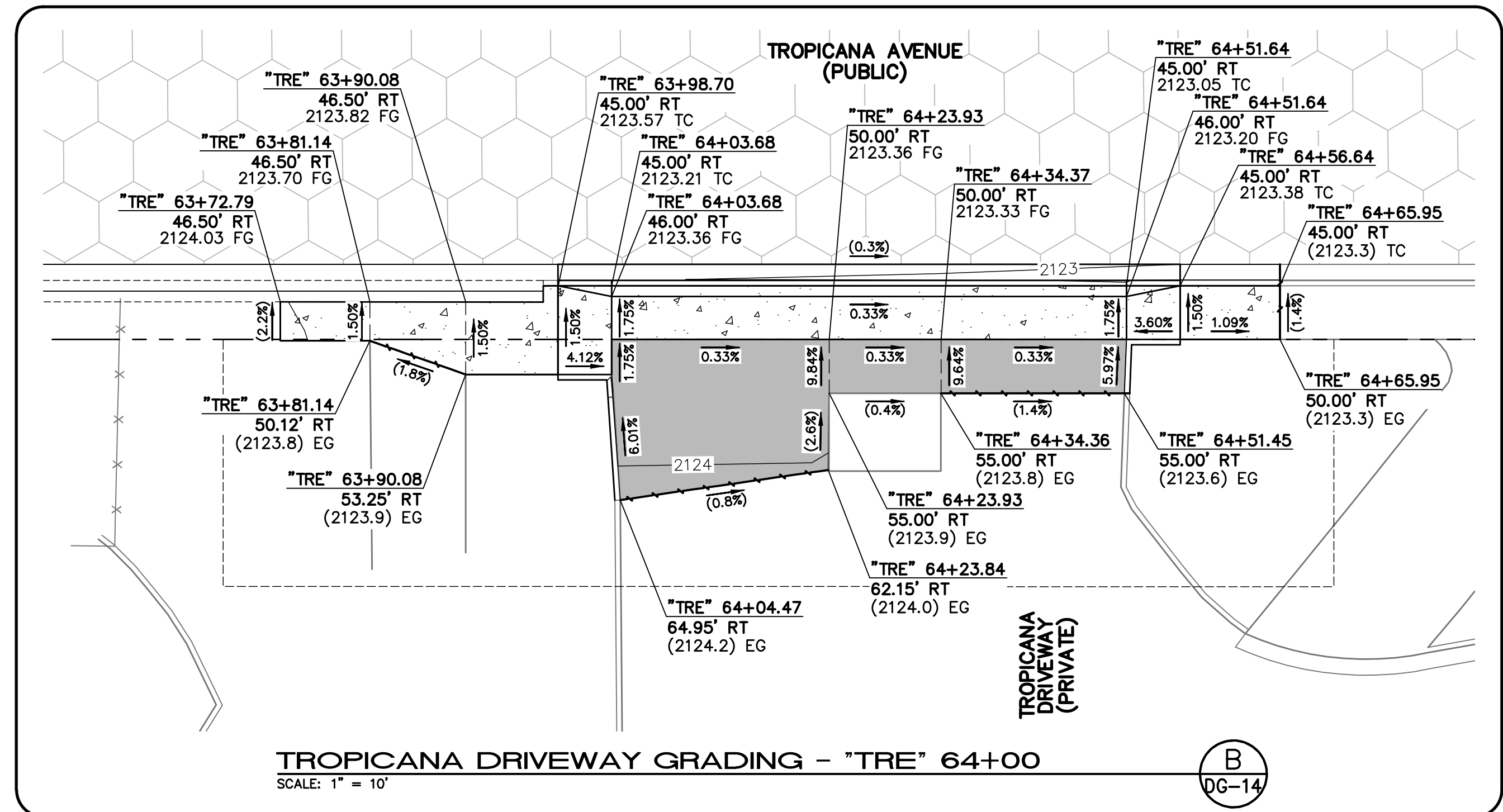
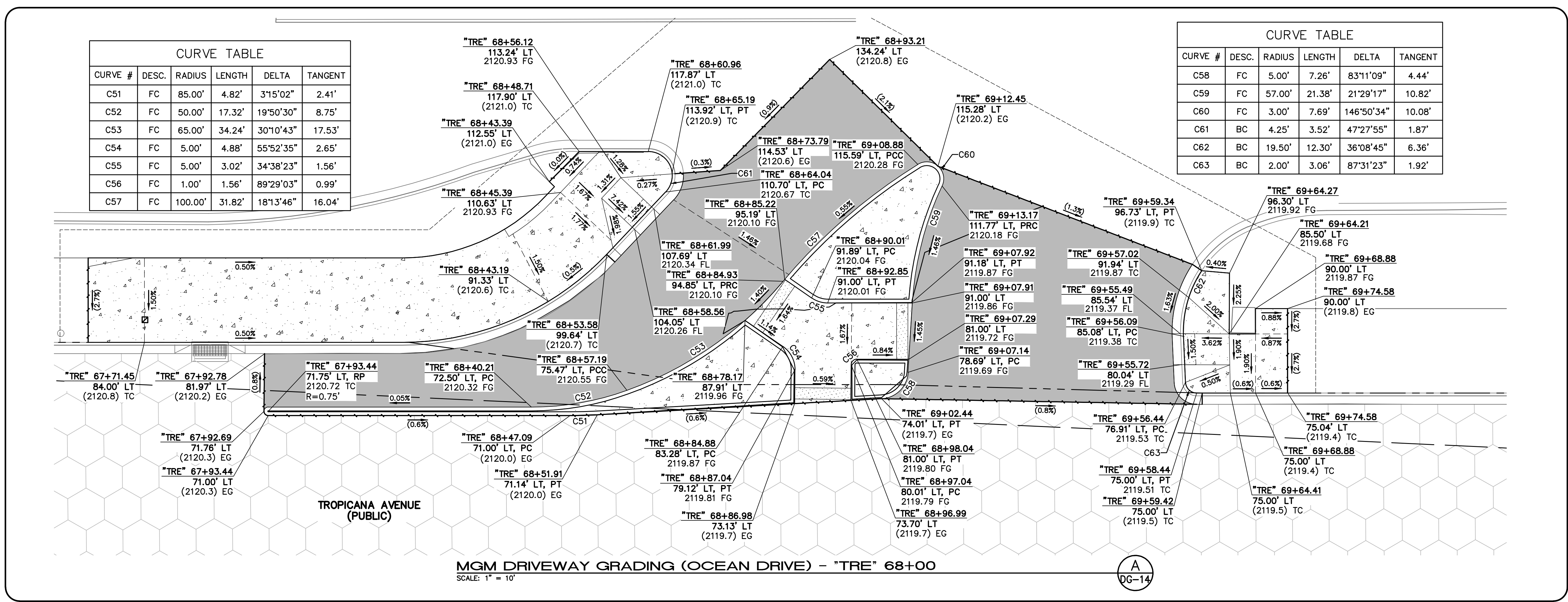


PROJECT No: 500-897-LV-EF DRAWN BY: MVD  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_

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

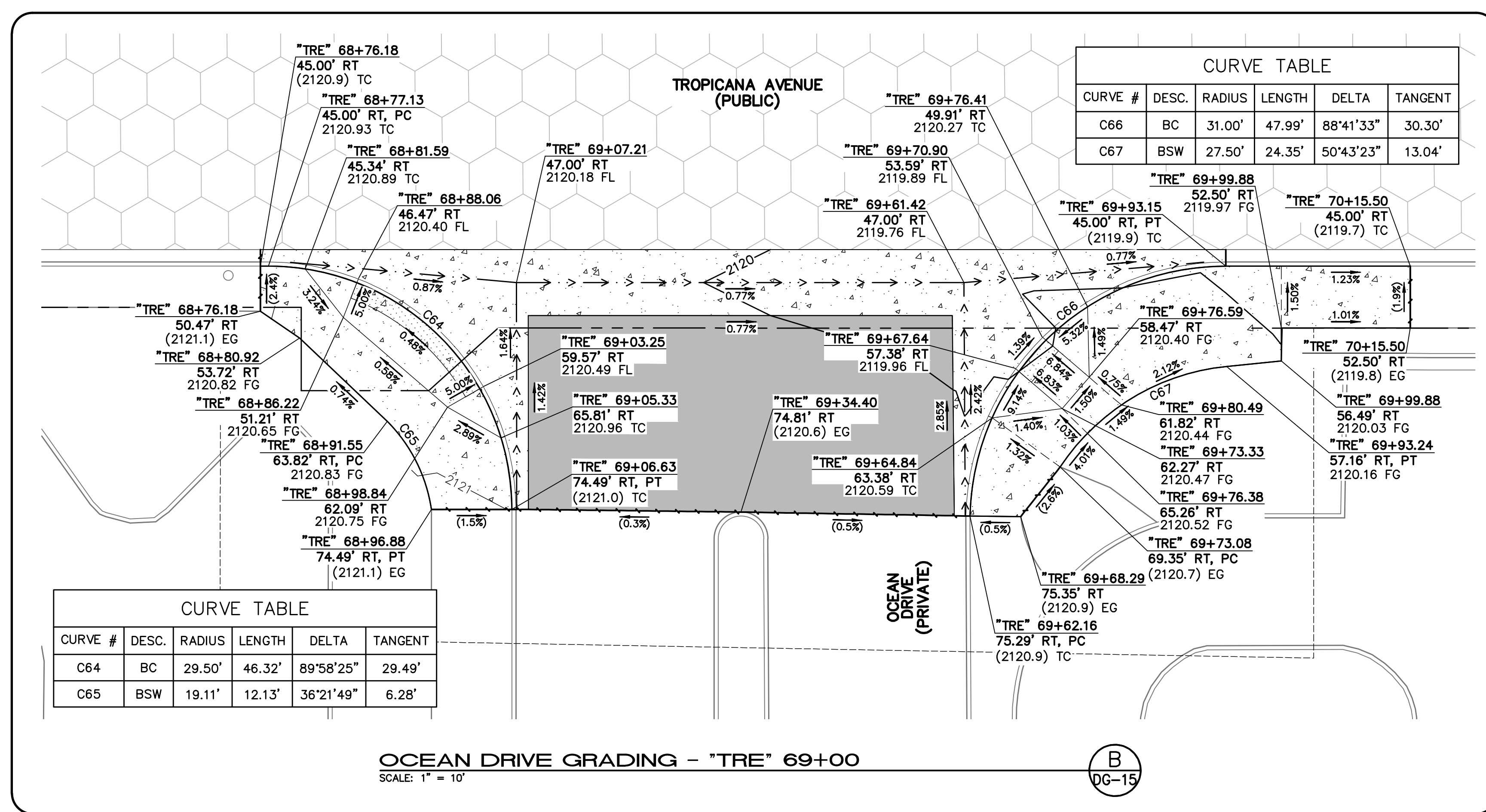
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 VERT: NONE  
 FIELD BOOK: \_\_\_\_\_

DRAWING NO. **DG-14**  
 SHT. 82 OF 169  
 L-2304



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

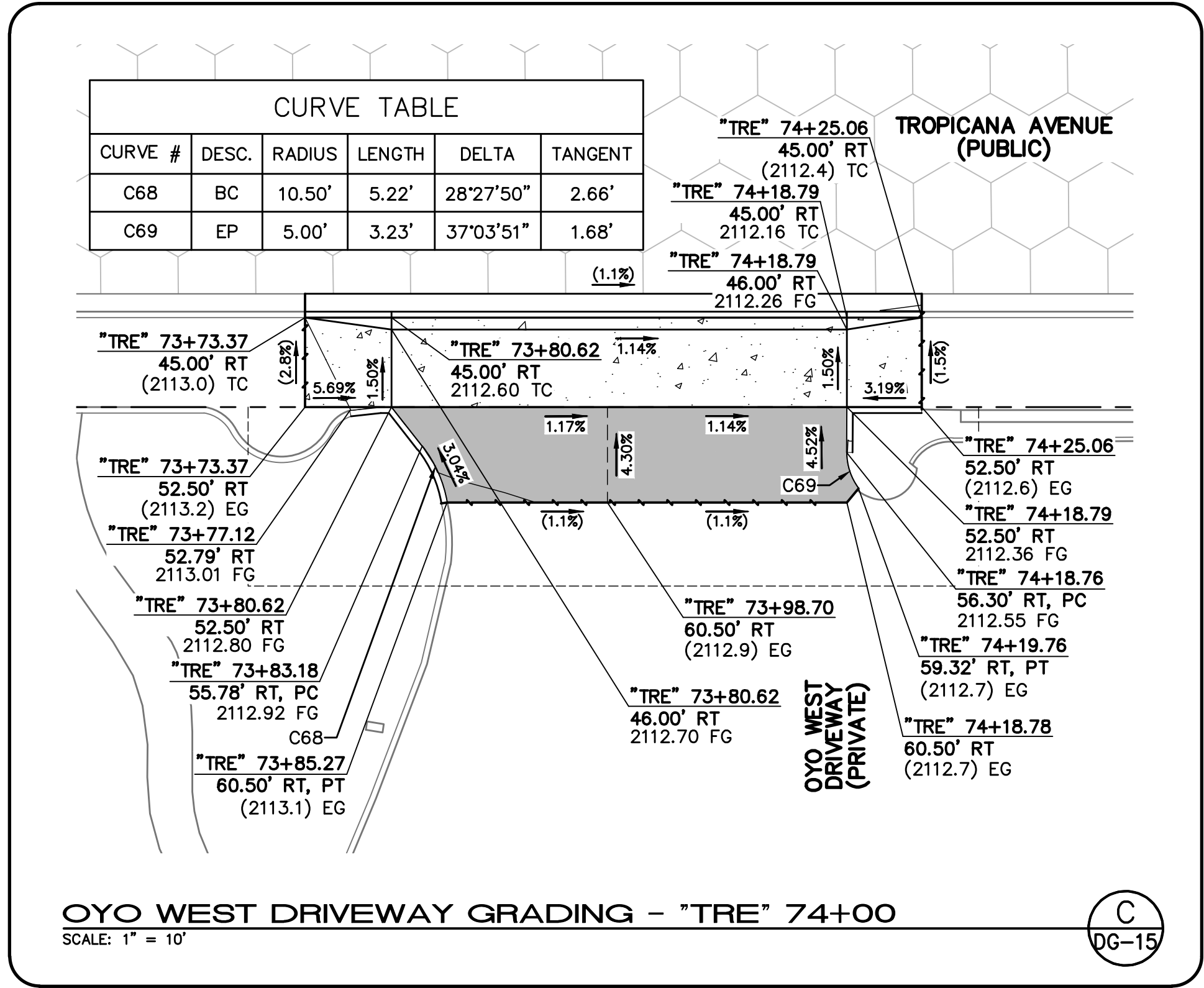




CURVE #	DESC.	RADIUS	LENGTH	DELTA	TANGENT
C64	BC	29.50'	46.32'	89°58'25"	29.49'
C65	BSW	19.11'	12.13'	36°21'49"	6.28'

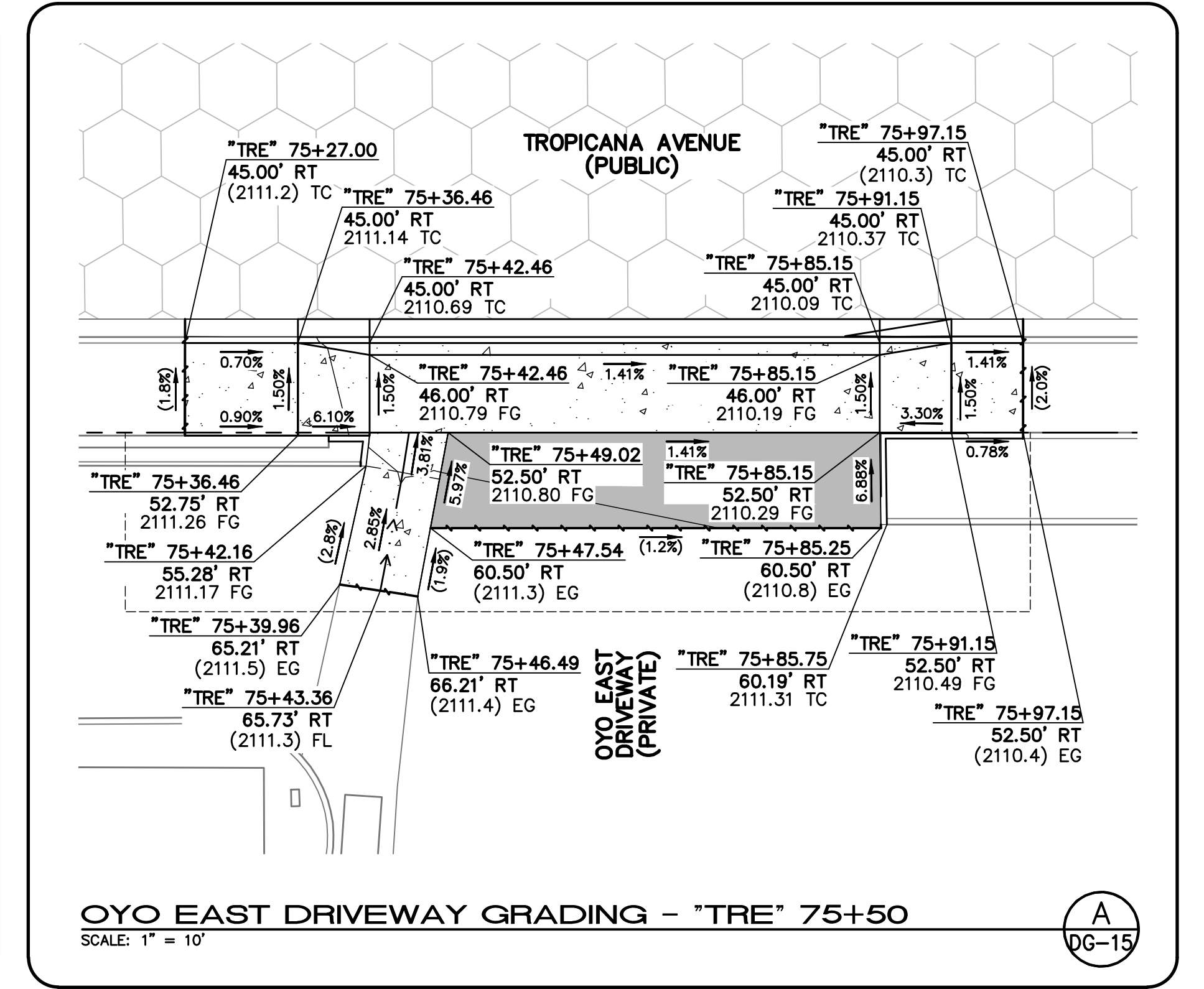
OCEAN DRIVE GRADING - "TRE" 69+00  
SCALE: 1" = 10'

B  
DG-15



OYO WEST DRIVEWAY GRADING - "TRE" 74+00  
SCALE: 1" = 10'

C  
DG-15

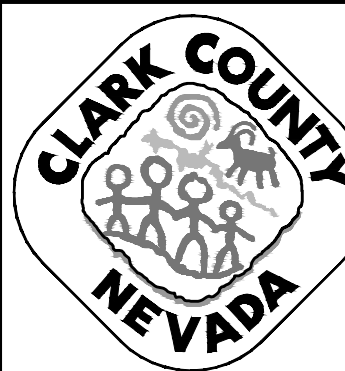


OYO EAST DRIVEWAY GRADING - "TRE" 75+50  
SCALE: 1" = 10'

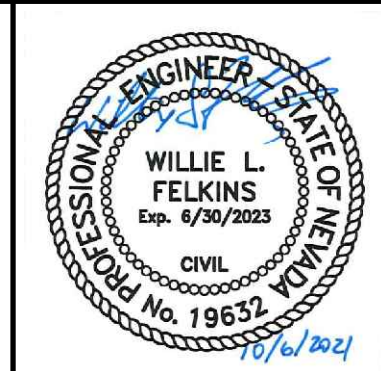
A  
DG-15

10-13-21 11:43:41 F:\Projects\500\500-897-LV-EF\DWG\Production\LV-EF\_DG\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



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

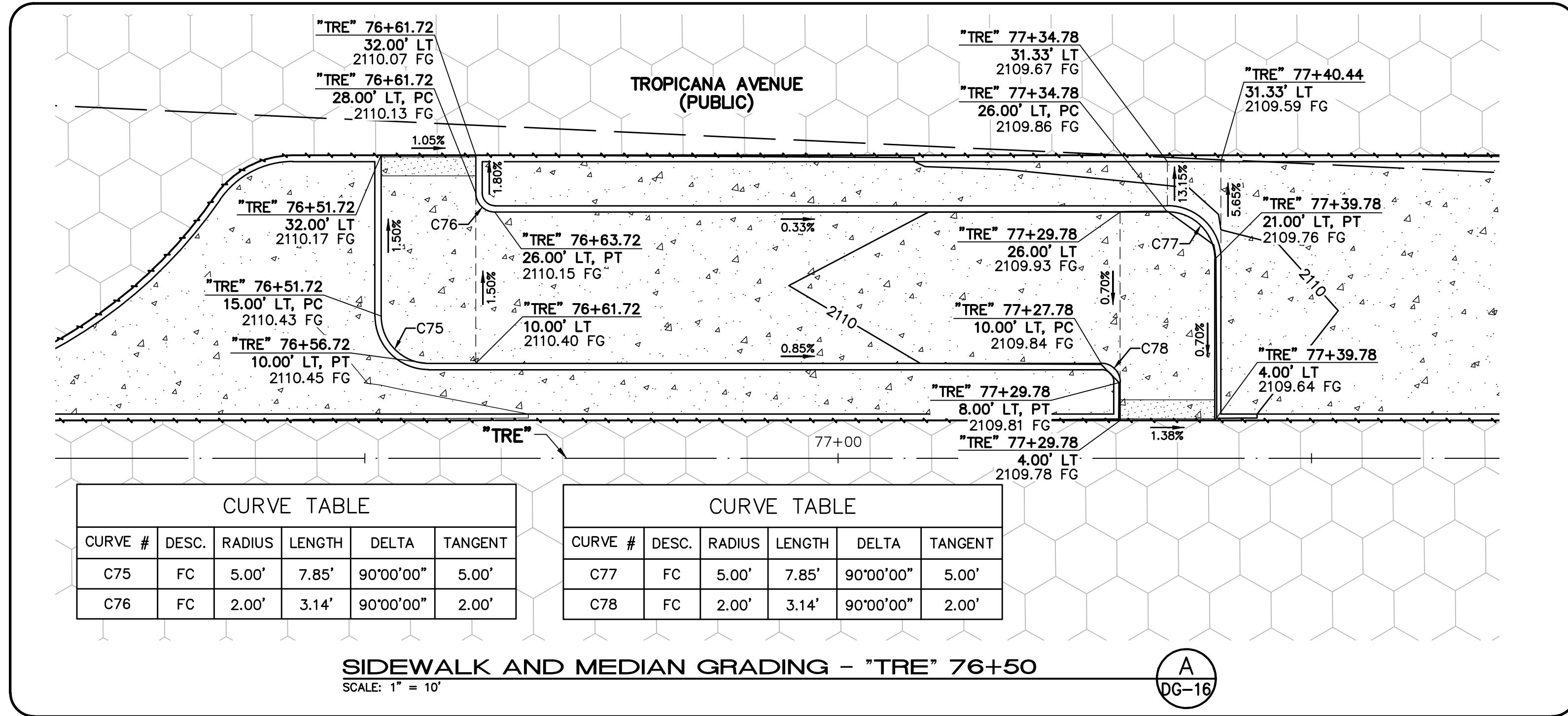
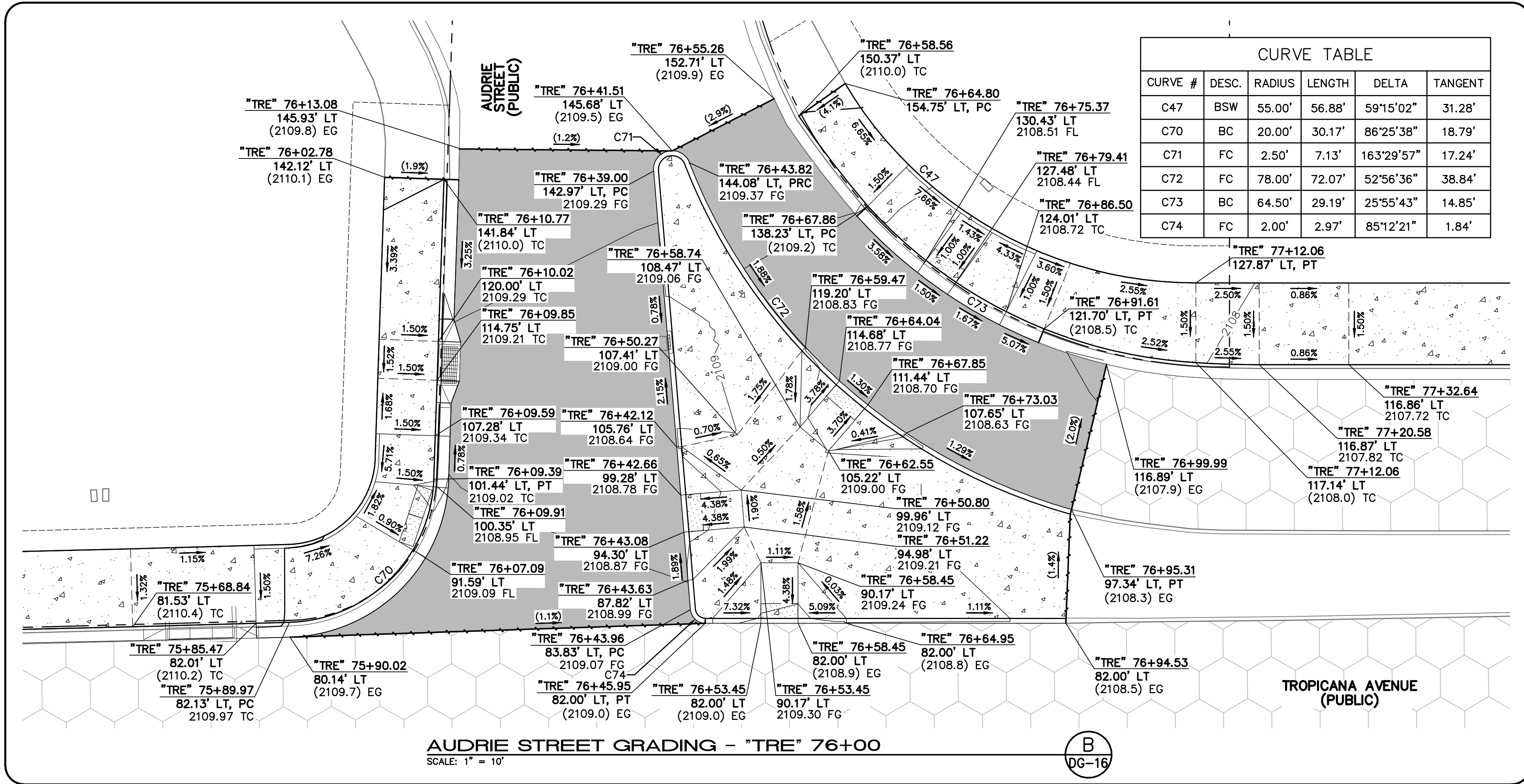


PROJECT No: 500-897-LV-EF DRAWN BY: MVD  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
GCV ENGINEERS & SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
DRAWING NO. DG-15  
SHT. 83 OF 169  
L-2304

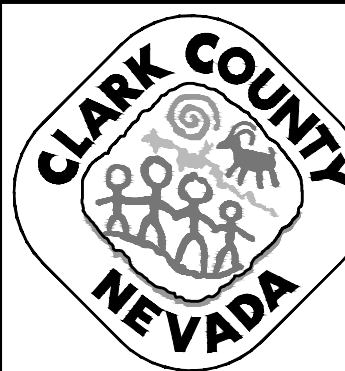
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)





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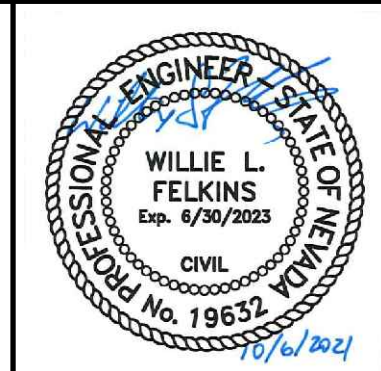
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**GRADING DETAILS**

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



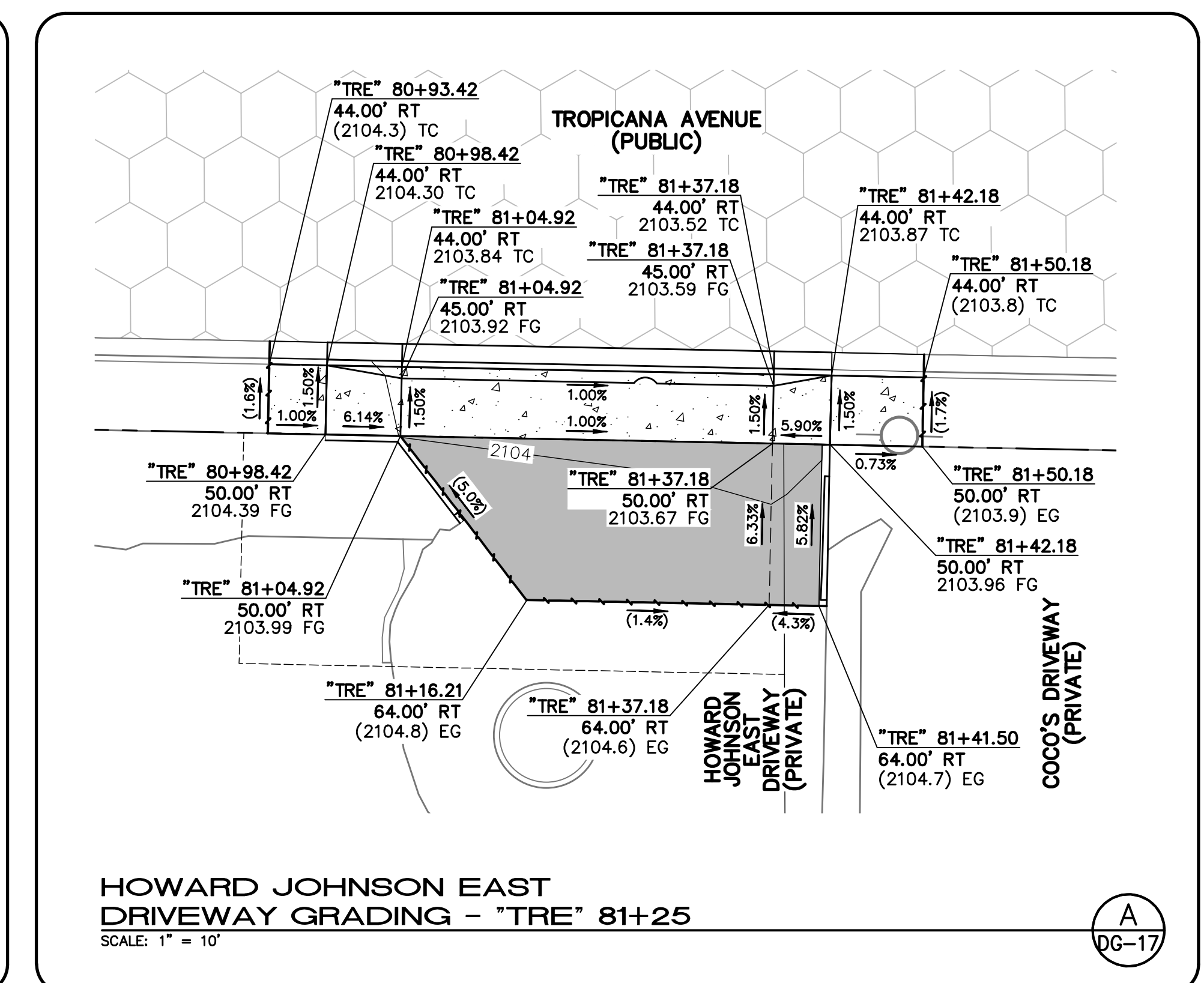
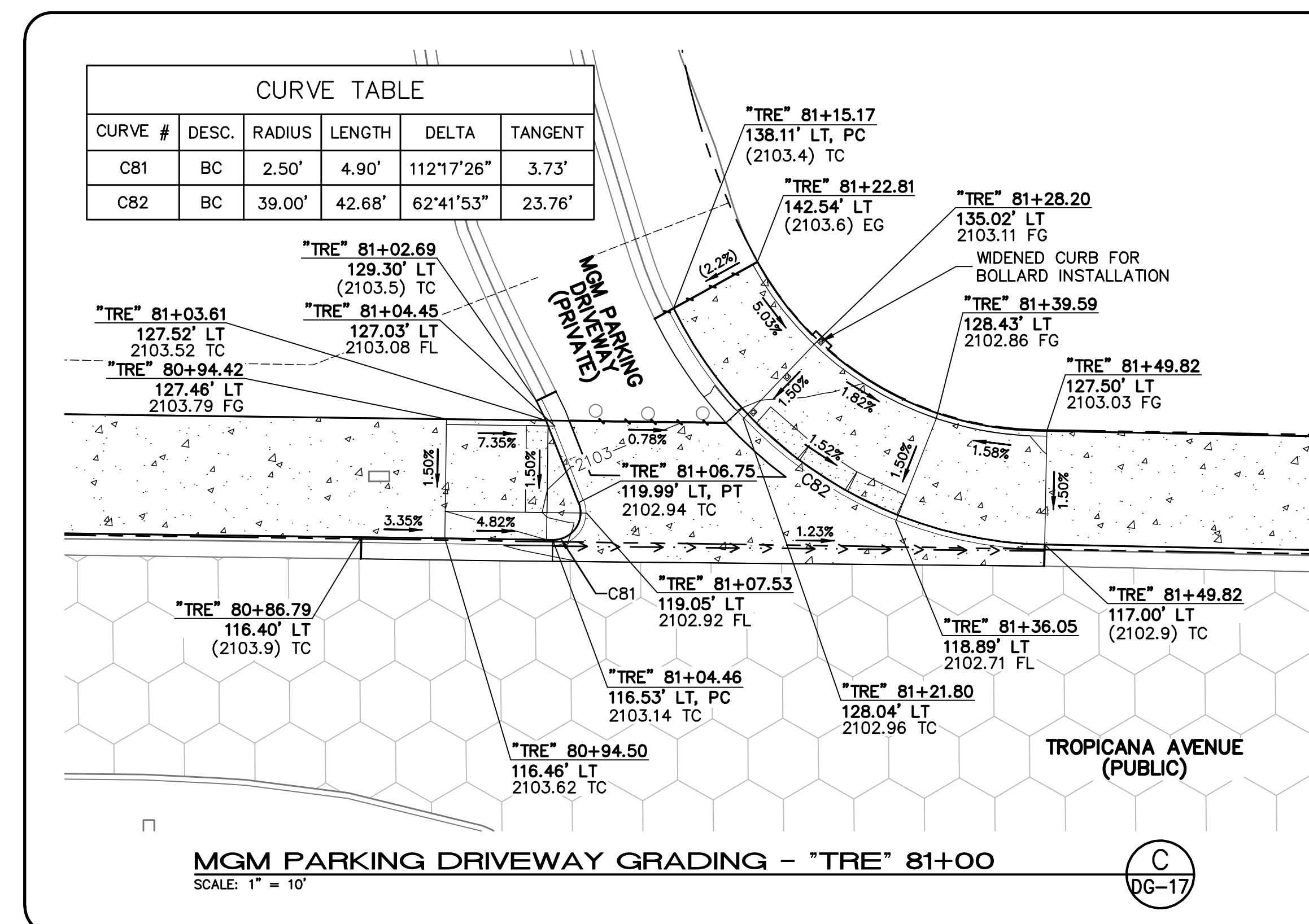
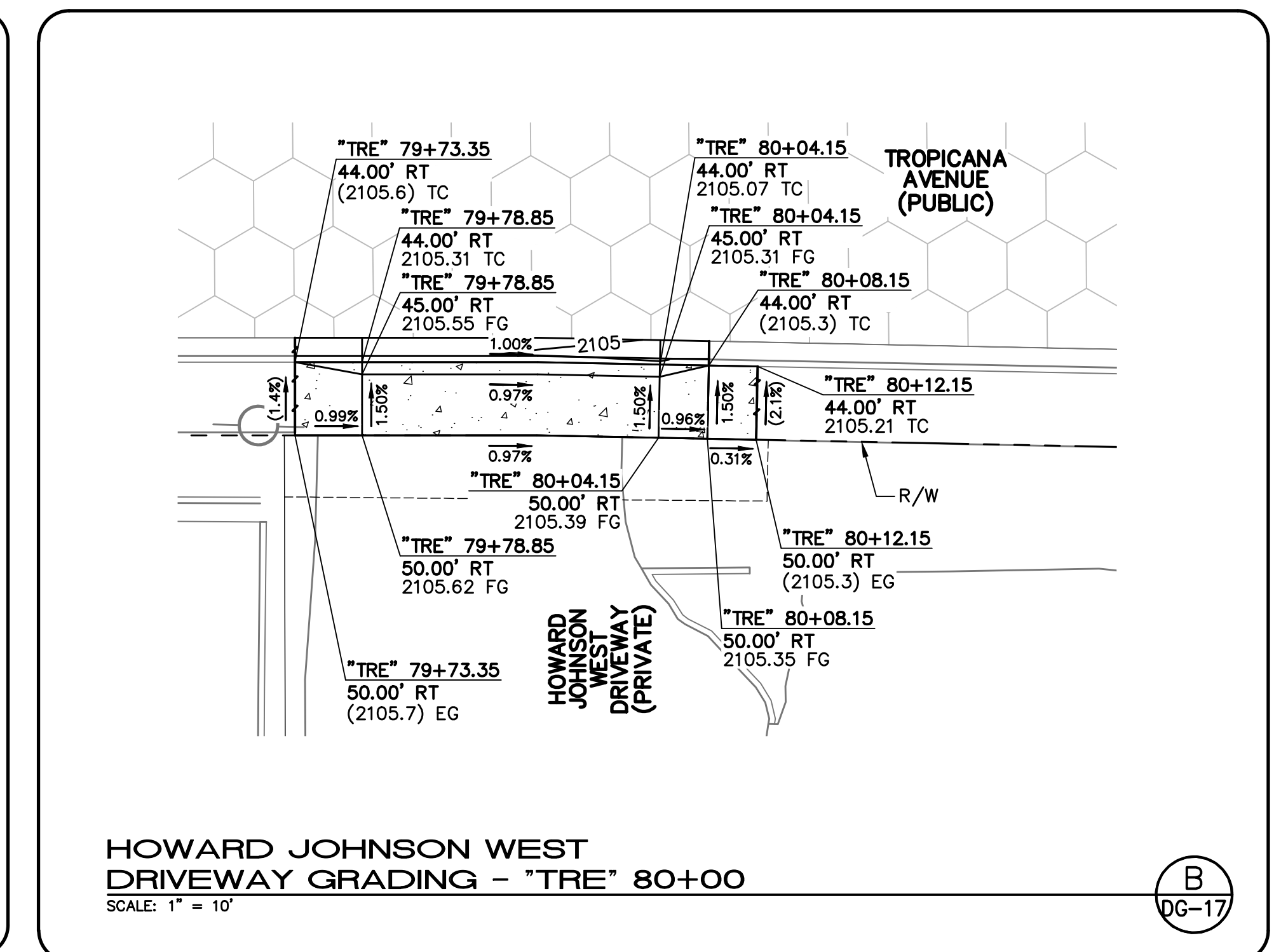
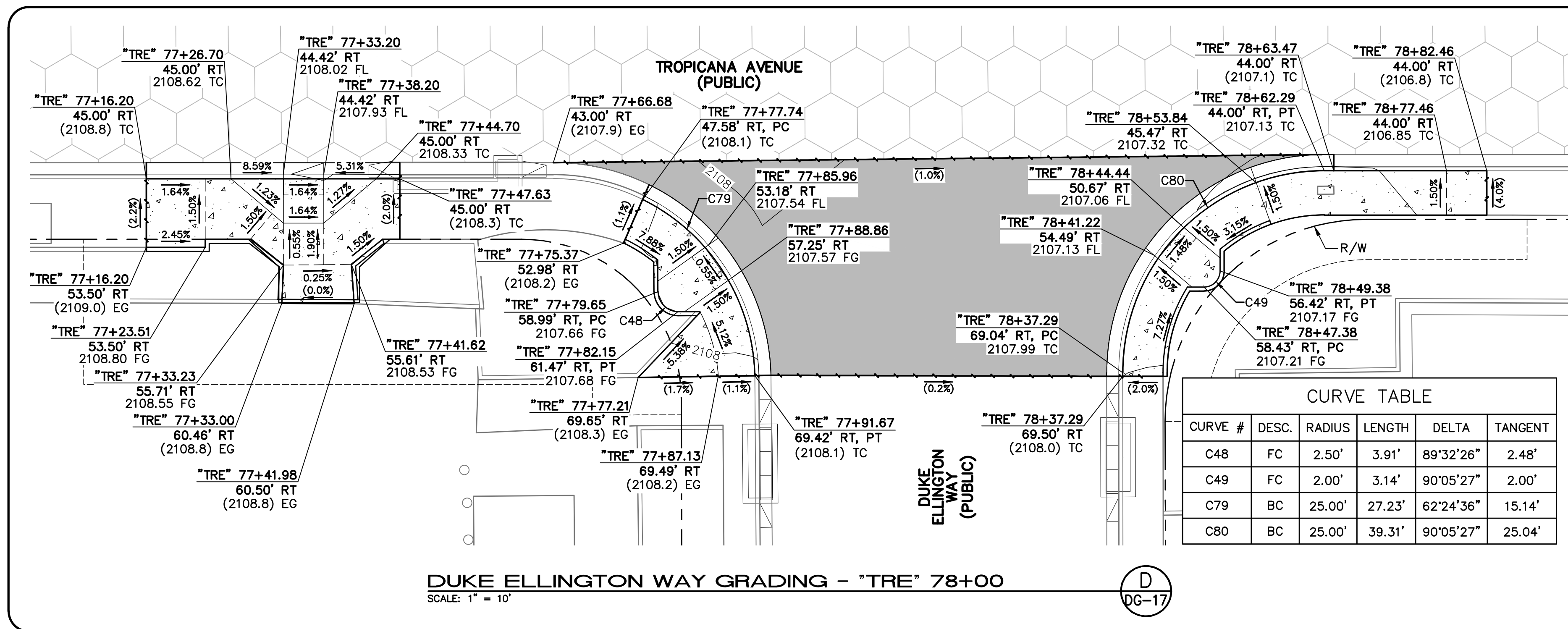
PROJECT No: 500-897-LV-EF DRAWN BY: MVD  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY:

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

SCALE: HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK

DRAWING NO. **DG-16**  
 SHT. 84 OF 169  
 L-2304

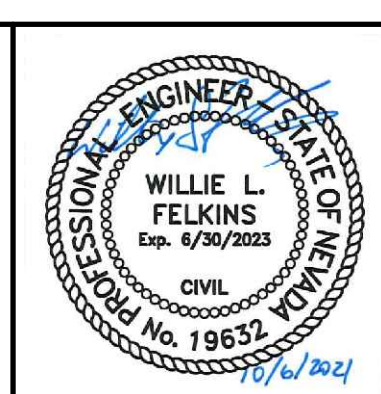




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REV. NO.	DATE	DESCRIPTION	APPROVED

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



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

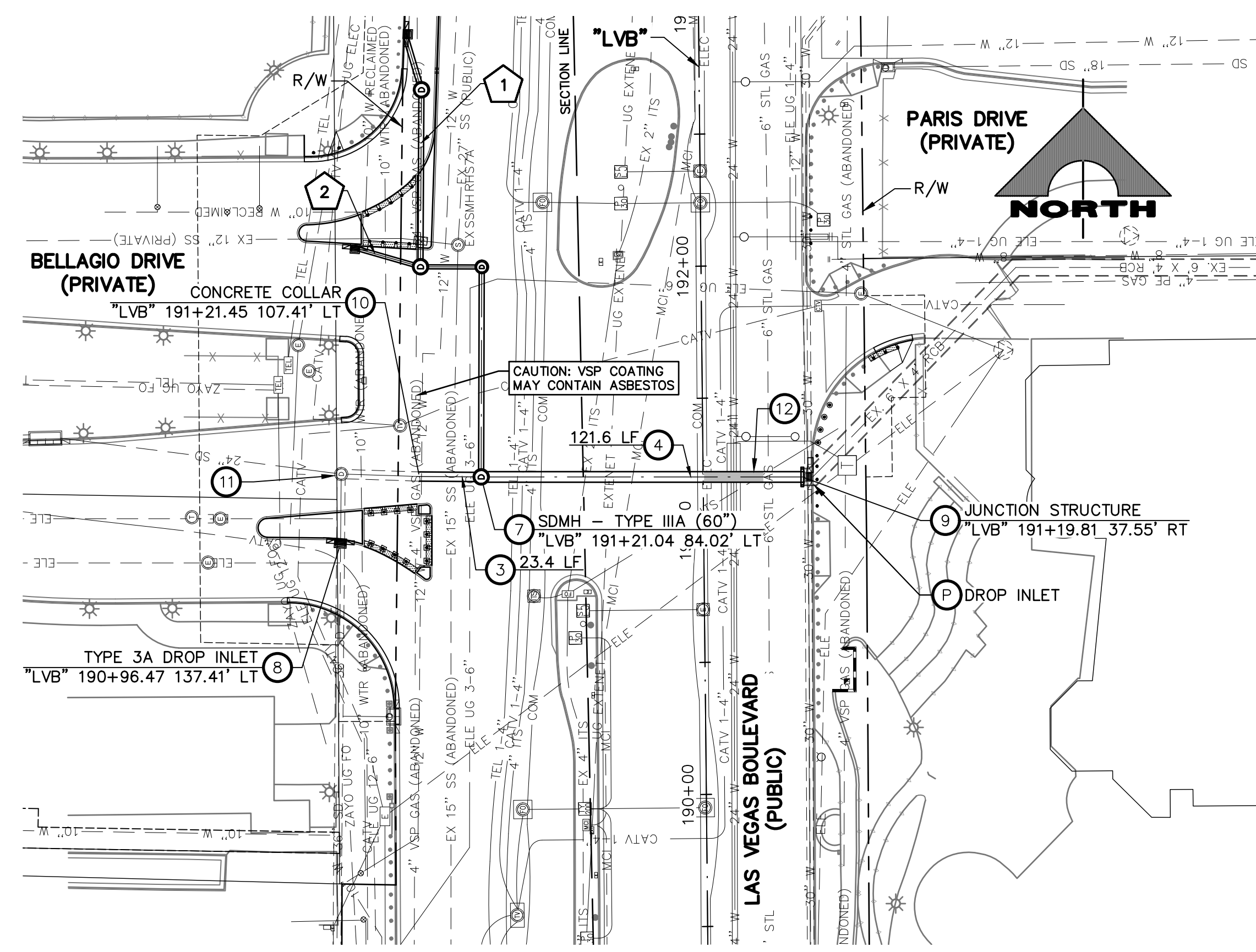
GCV

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

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

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

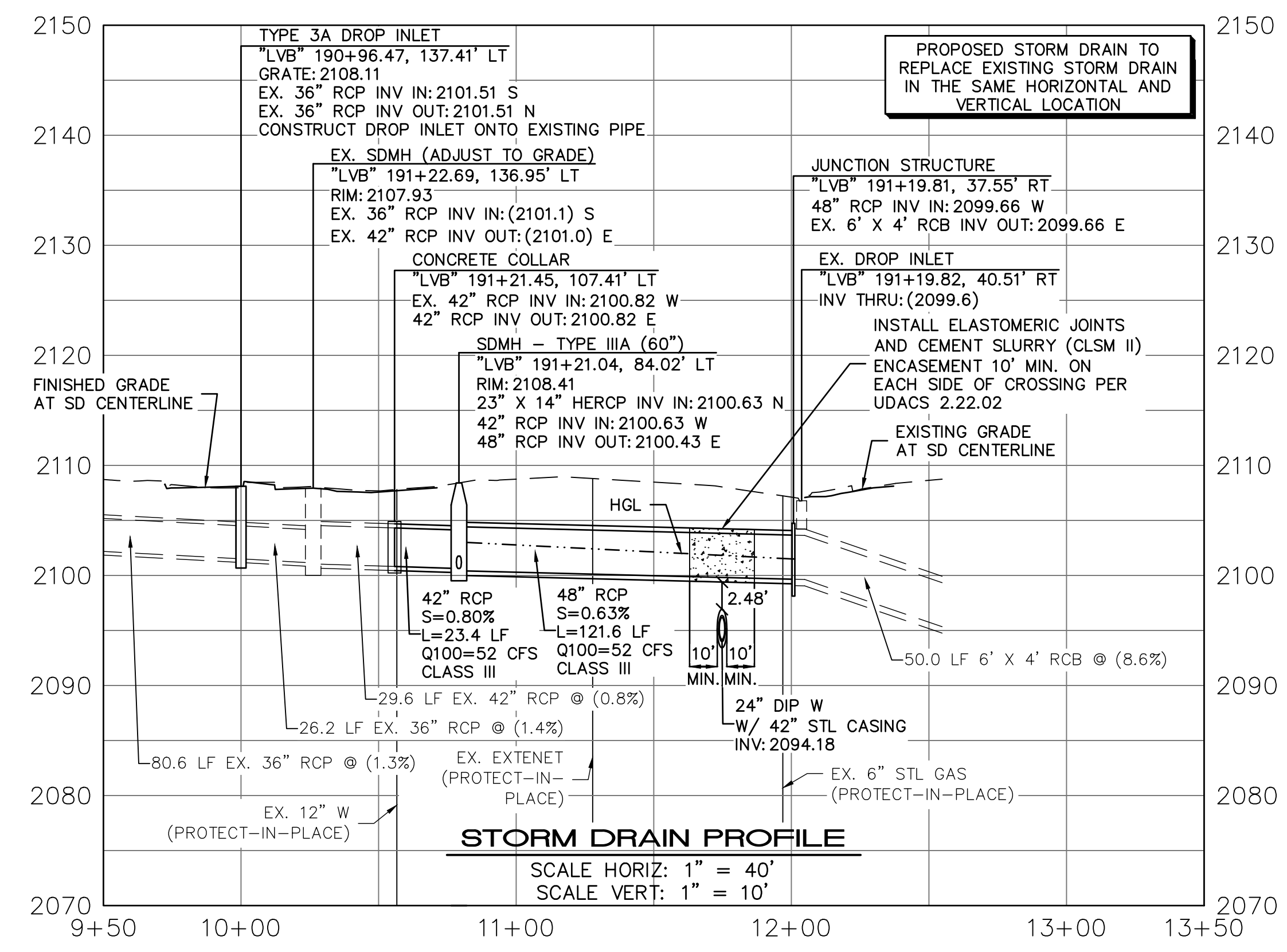




- STORM DRAIN NOTES**
- INSTALL 18-INCH RCP STORM DRAIN
  - INSTALL 18-INCH C900 PVC STORM DRAIN
  - INSTALL 42-INCH RCP STORM DRAIN
  - INSTALL 48-INCH RCP STORM DRAIN
  - INSTALL 23"x14" HERCP STORM DRAIN
  - INSTALL TYPE IA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 404.1)
  - INSTALL TYPE IIIA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 406.1)
  - CONSTRUCT TYPE 3A DROP INLET (NDOT STD. DETAIL NOS. DS-36A & DS-36B AND USDCCA STD. DWG. NO. 421)
  - CONSTRUCT JUNCTION STRUCTURE (SEE DETAIL 1, DWG. S-1)
  - CONSTRUCT CONCRETE COLLAR TO CONNECT TO EXISTING STORM DRAIN (SEE DETAIL 3, DWG. S-1)
  - ADJUST STORM DRAIN MANHOLE TO GRADE (SEE UTILITY PLANS)
  - INSTALL ELASTOMERIC JOINTS AND CEMENT SLURRY (CLSM II) ENCASEMENT 10' MIN. ON EACH SIDE OF THE CROSSING PER UDACS 2.22.02
  - PROTECT-IN-PLACE
- NOTES**
- SEE R-W DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, AND INLETS.
  - ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
  - STORM DRAIN MANHOLES AS SHOWN IN PROFILE SHALL BE CONSTRUCTED PER "UNIFORM CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION, UNLESS OTHERWISE NOTED.
  - ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.

**LEGEND**

X SEE STORM DRAIN PROFILES SD-2



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

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

AVOID FITTING OVERHEAD POWER LINES (P.S. 035314)

**CALL BEFORE YOU DIG OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

10-13-21 14:02:30 C:\Users\Adams\AppData\Local\Temp\AcPublish\_3108\LVF\_10\_SD\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED

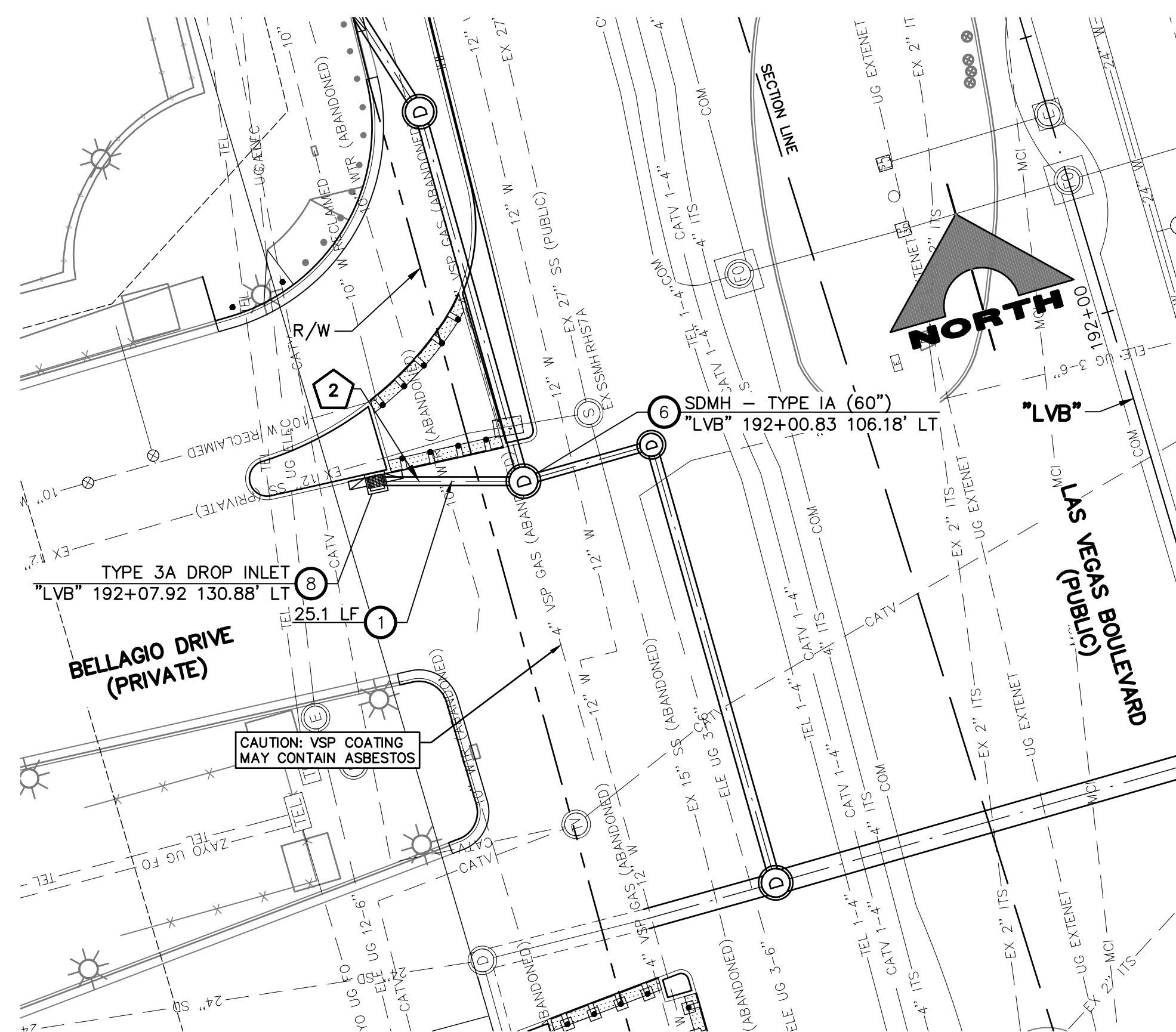
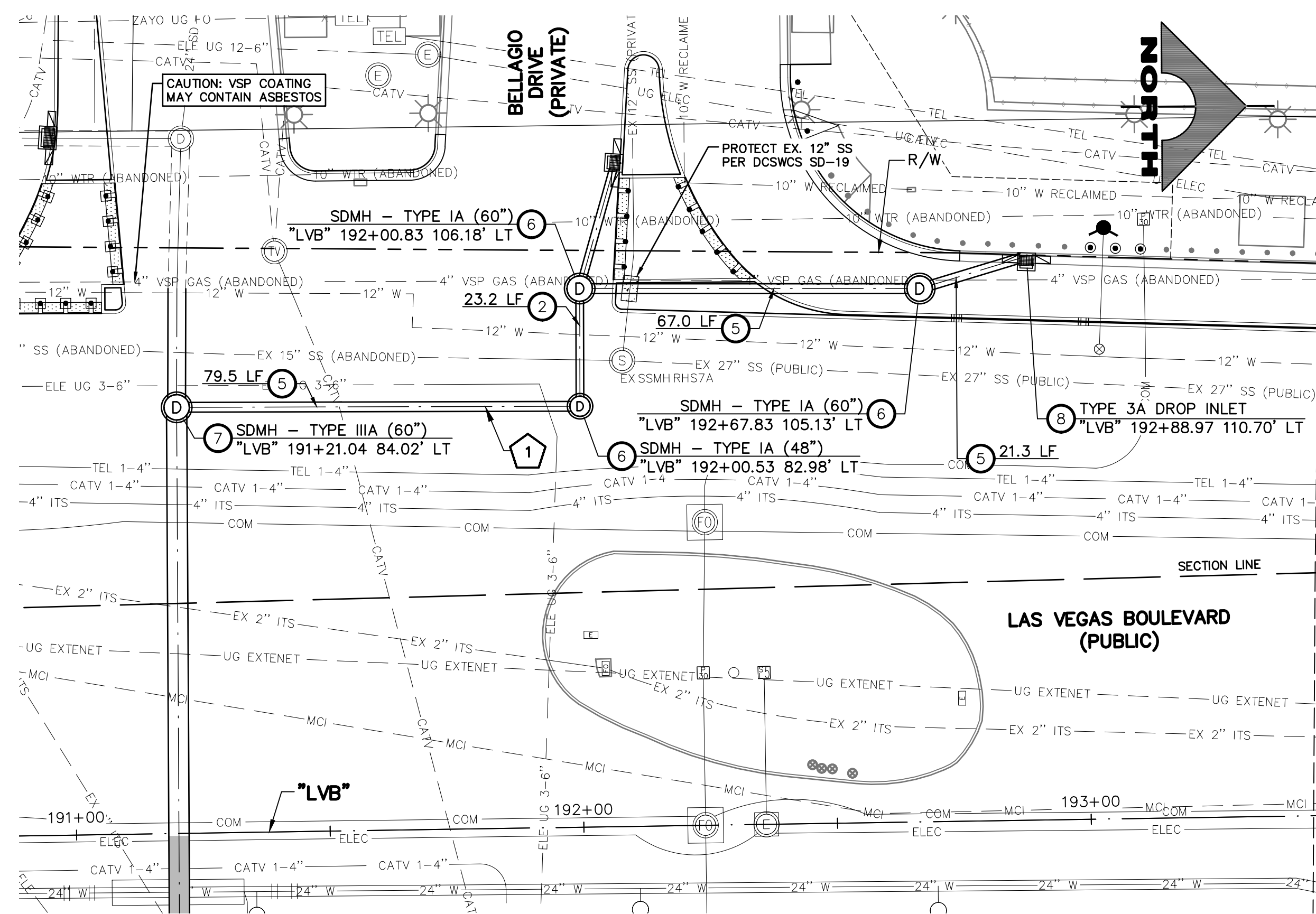
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STORM DRAIN PLAN AND PROFILE**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 500-897-LV-EF	DRAWN BY: JDS	SCALE	DRAWING NO.
DESIGNED BY: JDS	CHECKED BY: WLF	HORIZ: AS SHOWN	<b>SD-1</b>
APPROVED BY: _____		VERT: AS SHOWN	SHT. 86 OF 169
<p><b>ENGINEERS \ SURVEYORS</b></p> <p>1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com</p>		FIELD BOOK	L-2304



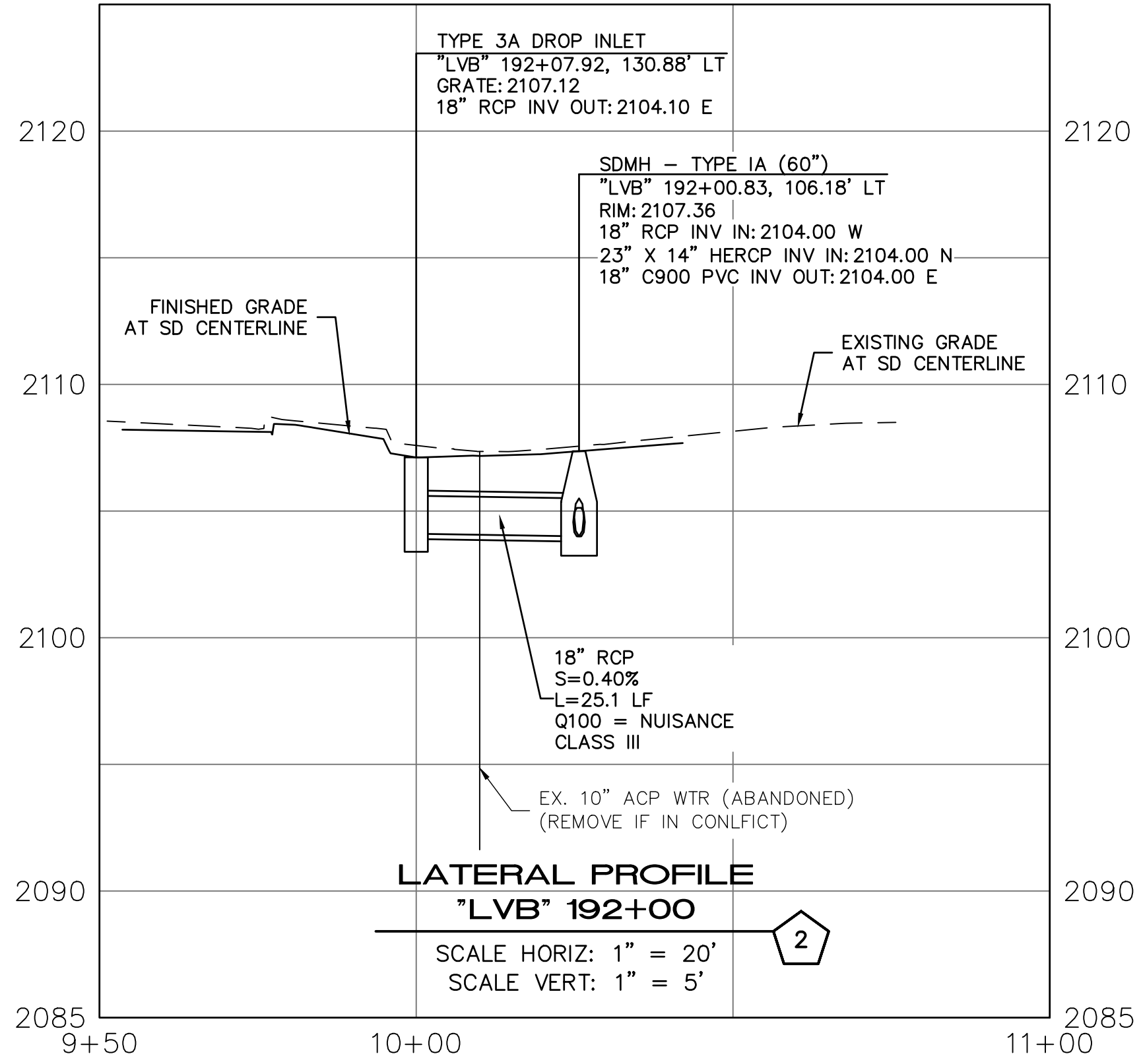
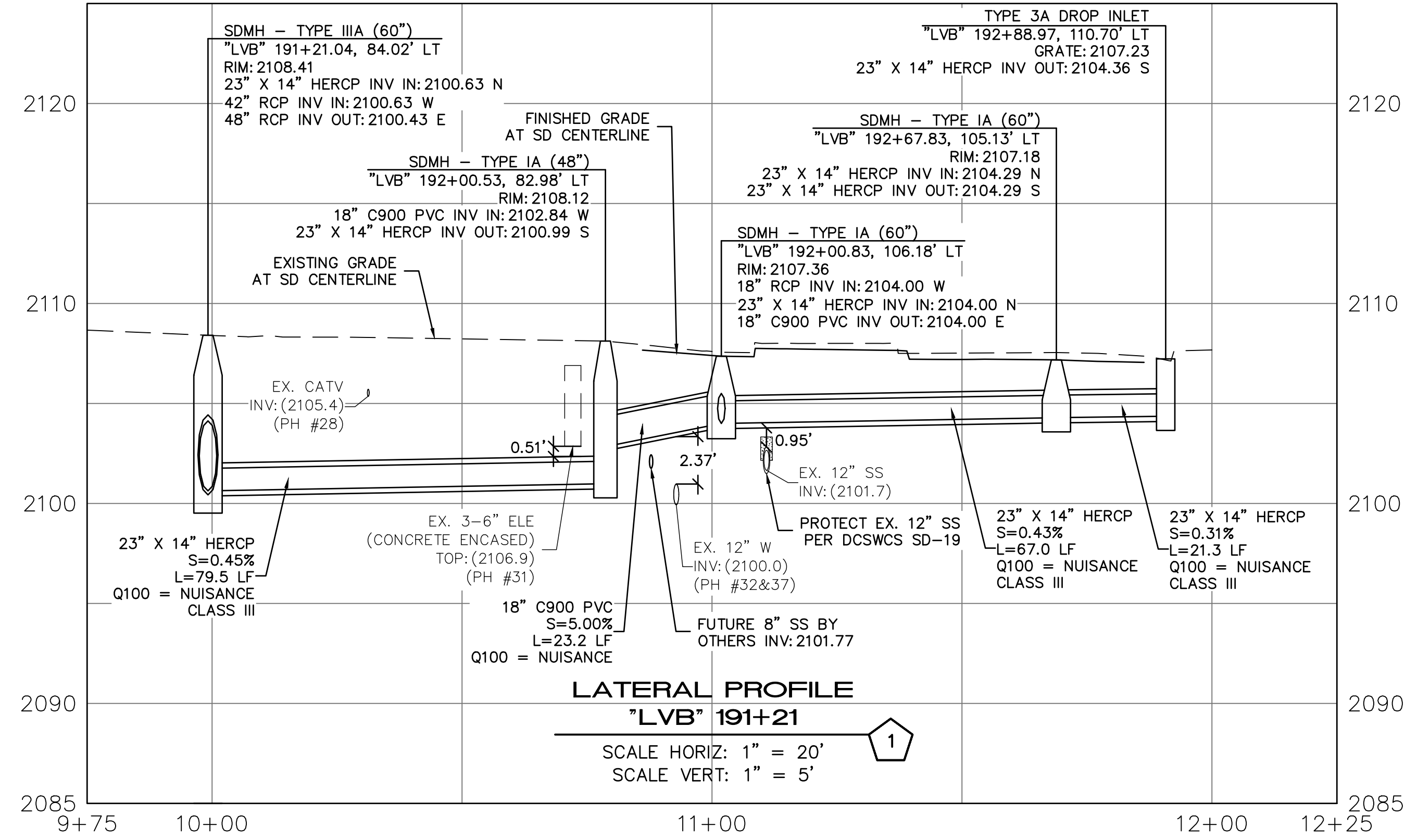


- STORM DRAIN NOTES**
- INSTALL 18-INCH RCP STORM DRAIN
  - INSTALL 18-INCH C900 PVC STORM DRAIN
  - INSTALL 42-INCH RCP STORM DRAIN
  - INSTALL 48-INCH RCP STORM DRAIN
  - INSTALL 23"x14" HERCP STORM DRAIN
  - INSTALL TYPE IA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 404.1)
  - INSTALL TYPE IIIA STORM DRAIN MANHOLE (USDCCA STD. DWG. NO. 406.1)
  - CONSTRUCT TYPE 3A DROP INLET (NDOT STD. DETAIL NOS. DS-36A & DS-36B AND USDCCA STD. DWG. NO. 421)
  - CONSTRUCT JUNCTION STRUCTURE (SEE DETAIL 1, DWG. S-1)
  - CONSTRUCT CONCRETE COLLAR TO CONNECT TO EXISTING STORM DRAIN (SEE DETAIL 3, DWG. S-1)
  - ADJUST STORM DRAIN MANHOLE TO GRADE (SEE UTILITY PLANS)
  - INSTALL ELASTOMERIC JOINTS AND CEMENT SLURRY (CLSM II) ENCASUREMENT 10' MIN. ON EACH SIDE OF THE CROSSING PER UDACS 2.22.02
  - PROTECT-IN-PLACE

- NOTES**
- SEE R-DRAWINGS FOR REMOVAL OF STORM DRAIN MANHOLES, PIPES, AND INLETS.
  - ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR GRADE BREAK OR TO INSIDE EDGE OF DI, RCB, OR STRUCTURE.
  - STORM DRAIN MANHOLES AS SHOWN IN PROFILE SHALL BE CONSTRUCTED PER "UNIFORM CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION, UNLESS OTHERWISE NOTED.
  - ALL STORM DRAIN PIPE IS CLASS III UNLESS OTHERWISE NOTED.

**LEGEND**

X SEE STORM DRAIN PROFILES SD-2



**SOUTHWEST GAS VALVE NOTE**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

**CCWRD PIPES NUMBER: 21,983**

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

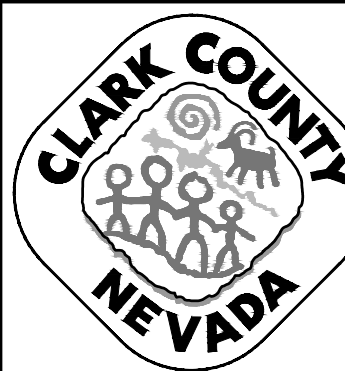
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

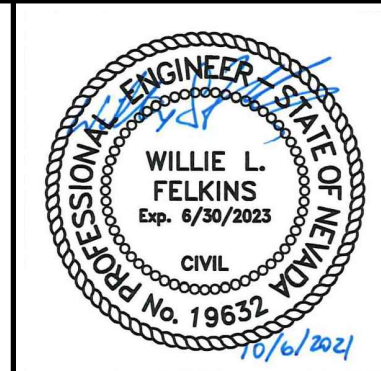


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REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

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

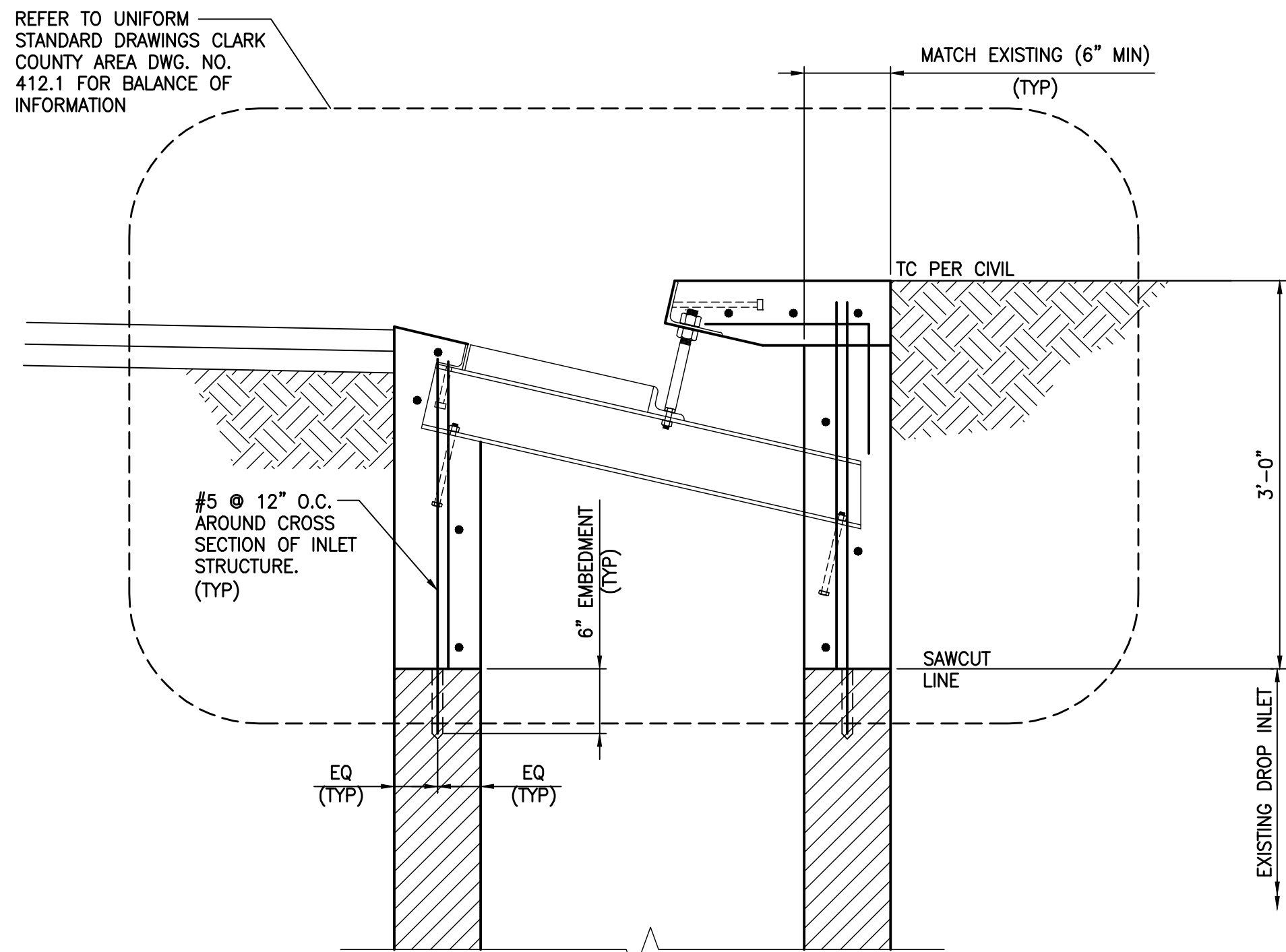
SCALE  
 HORIZ: AS SHOWN  
 VERT: AS SHOWN  
 FIELD BOOK

DRAWING NO.  
**SD-2**  
 SHT. 87 OF 169  
 L-2304



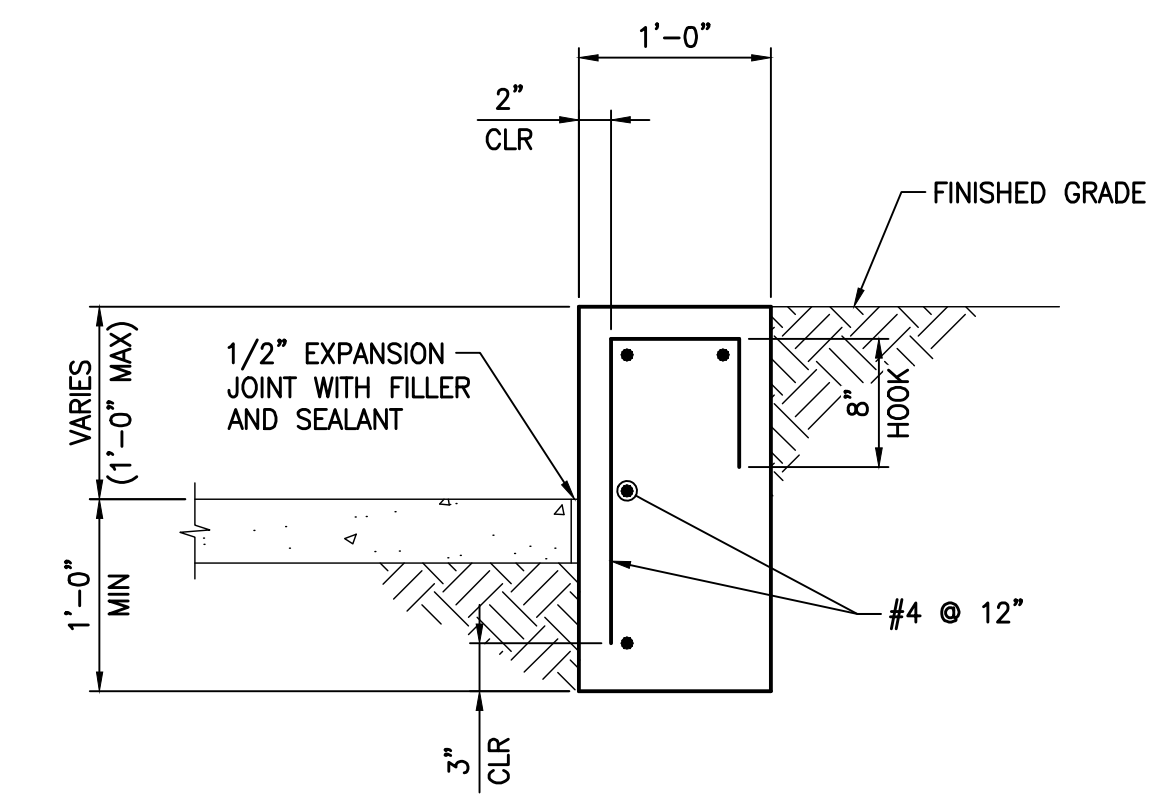




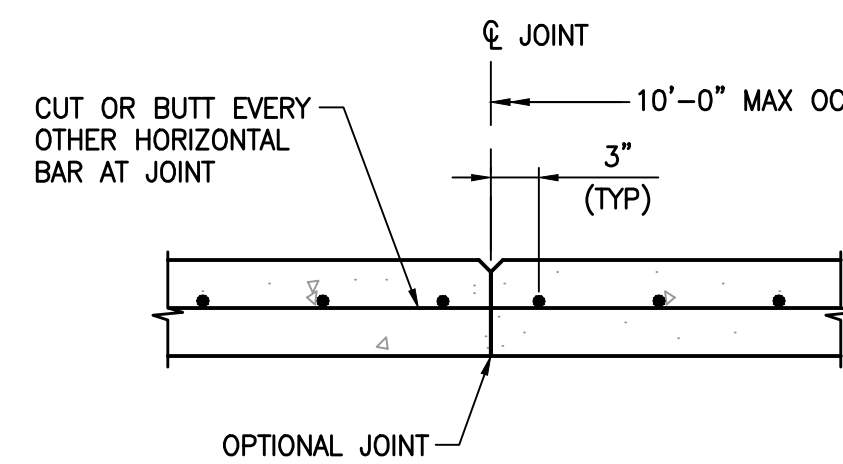


- NOTES:
1. SAWCUT AND REMOVE TOP 3'-0" OF EXISTING DROP INLET. TAKE CARE TO PROTECT THE EXISTING DROP INLET IN PLACE.
  2. REPLACE THE TOP 3'-0" OF THE INLET WITH STANDARD "DM2" DROP INLET PER USRCCA DWG NO 412.1.

**5 DROP INLET MODIFICATION**  
SCALE: NTS



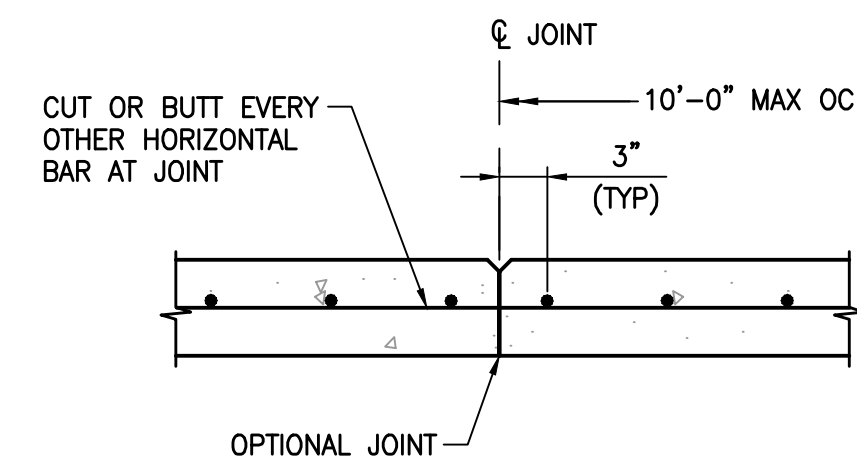
**B RETAINING WALL SECTION**  
SCALE: NTS



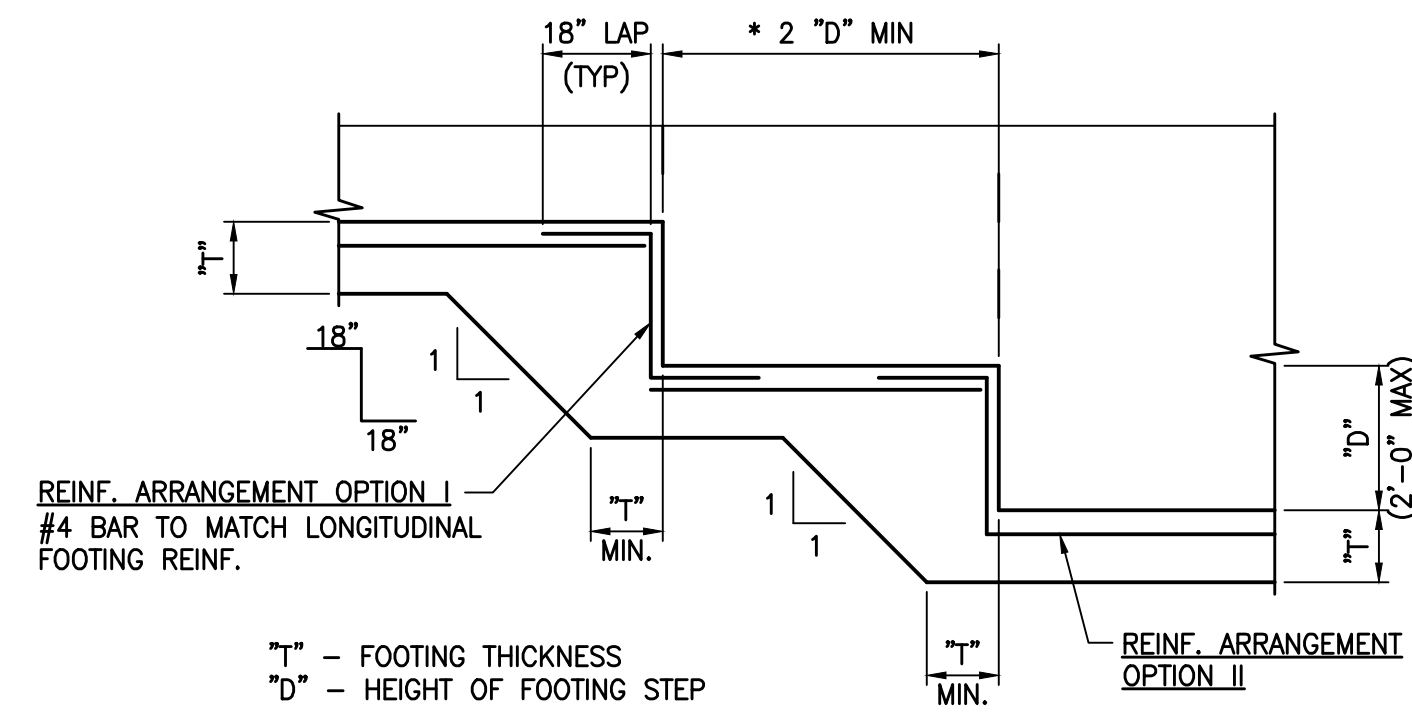
**4 WALL CONTROL JOINT DETAIL**  
SCALE: 1" = 1'-0"

**RETAINING WALL NOTES**

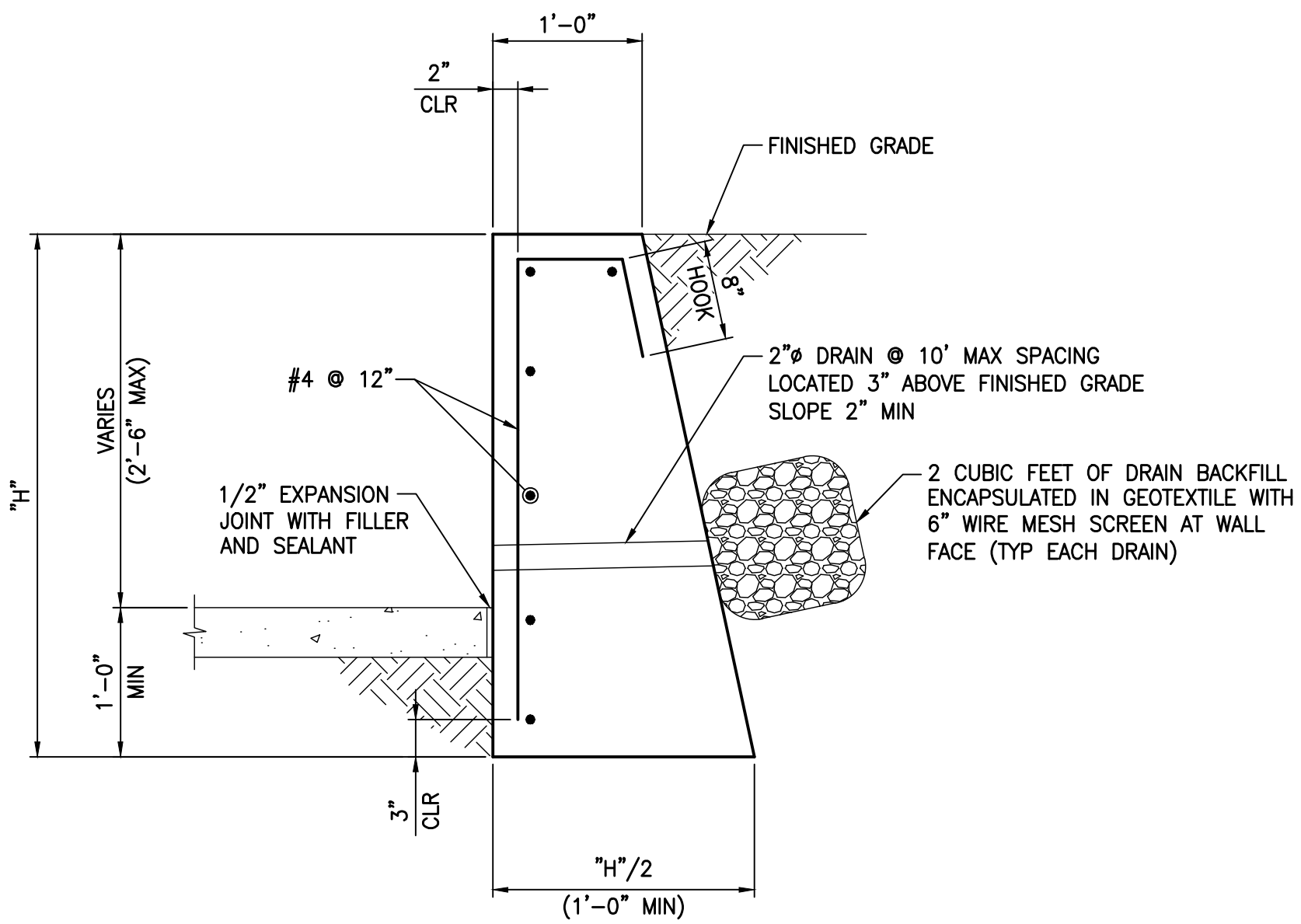
1. REFER TO GENERAL STRUCTURAL NOTES ON S-1.
2. PROVIDE WALL EXPANSION JOINTS AT 30'-0" MAX SPACING AND WALL CONTROL JOINTS AT 10'-0" MAX SPACING PER TYPICAL DETAILS.



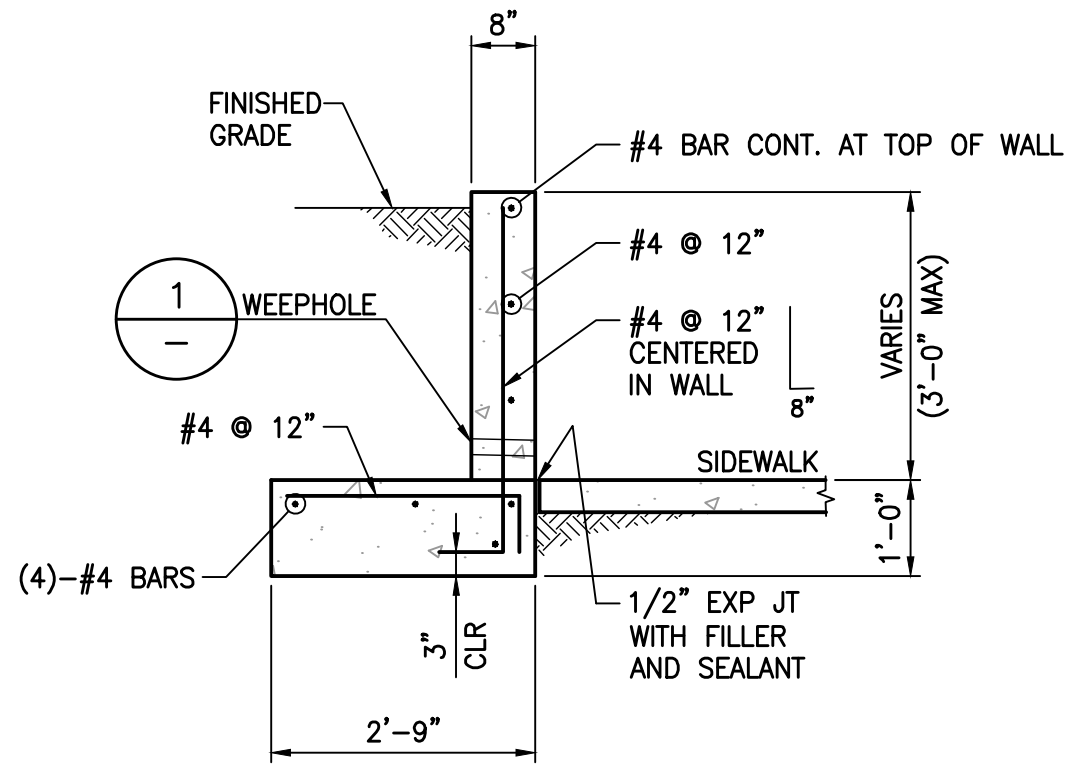
**3 WALL EXPANSION JOINT**  
SCALE: 1" = 1'-0"



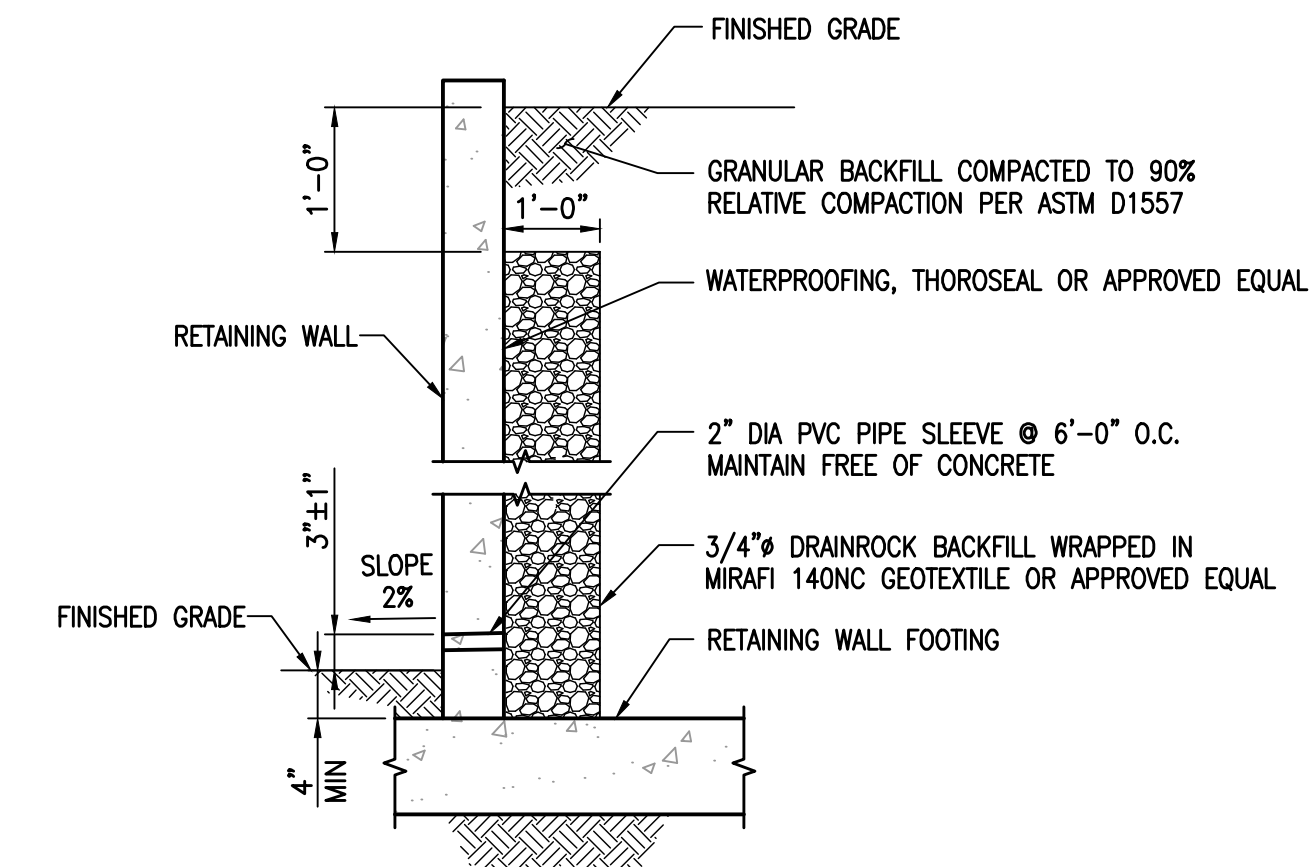
**2 FOOTING STEP DETAIL**  
SCALE: NTS



**C RETAINING WALL SECTION**  
SCALE: NTS



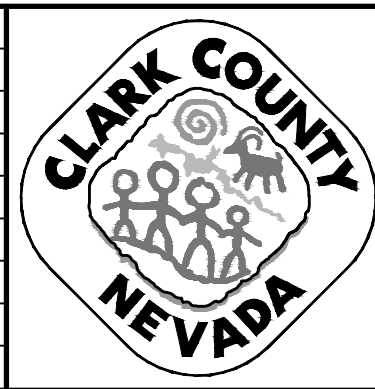
**A TYP RETAINING WALL SECTION**  
SCALE: 1/2" = 1'-0"



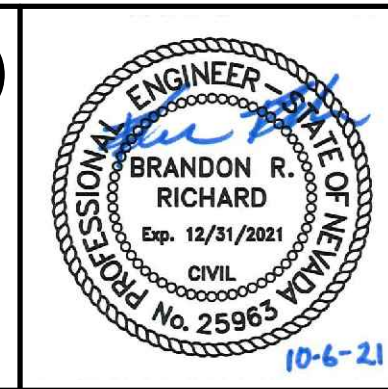
**1 WEEPHOLE DETAIL**  
SCALE: NTS

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REV. NO.	DATE	DESCRIPTION	APPROVED



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

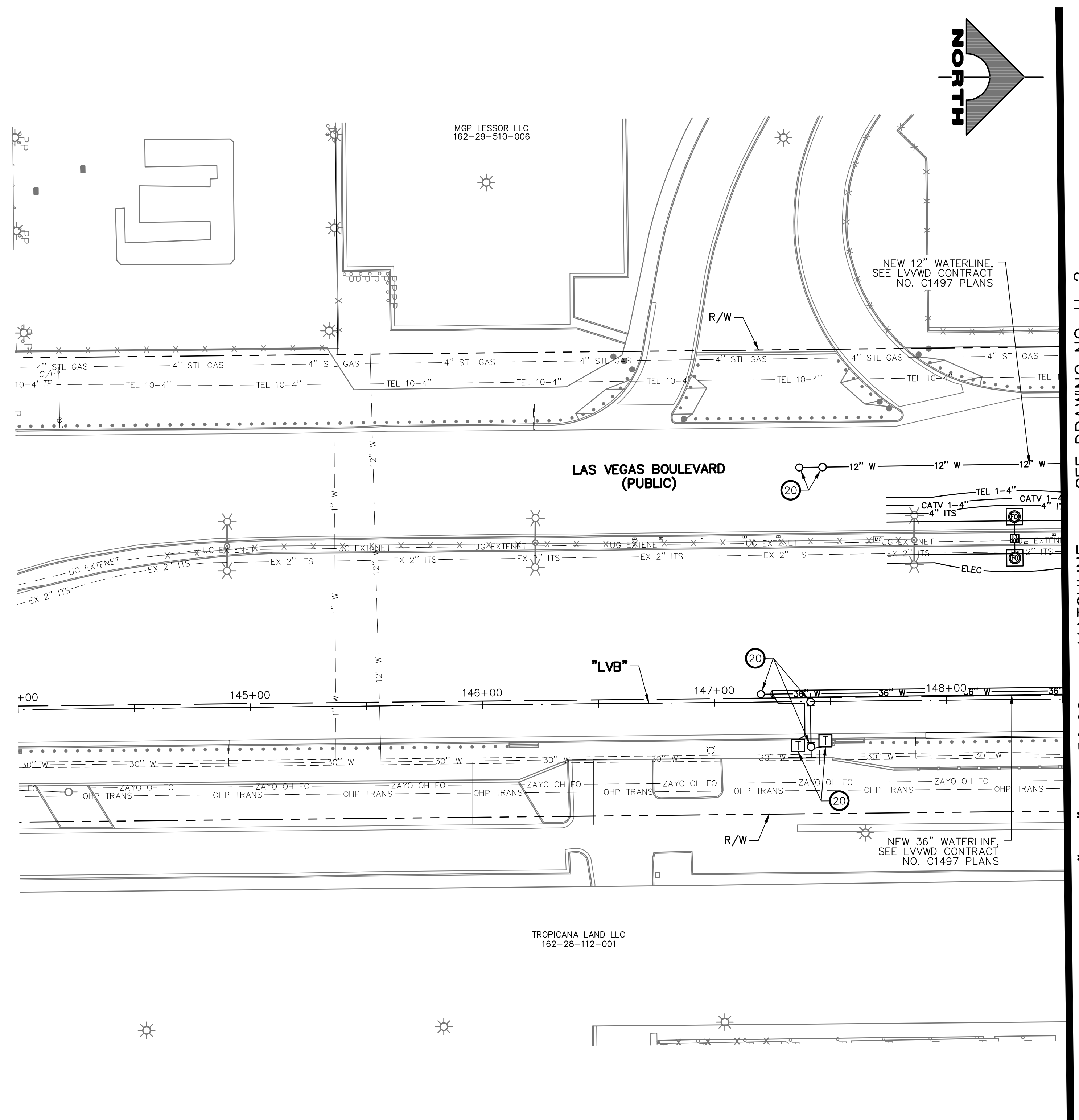


PROJECT No: 500-897-LV-EF DRAWN BY: DAT  
DESIGNED BY: DAT CHECKED BY: EGG  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

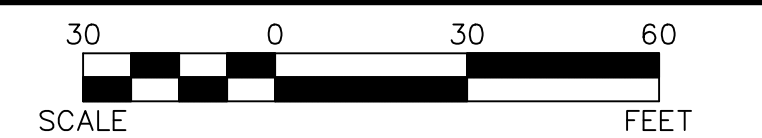
SCALE	DRAWING NO.
HORIZ: AS SHOWN	S-2
VERT: NONE	SHT. 89 OF 169
FIELD BOOK	L-2304

BID NO.: 603978-21





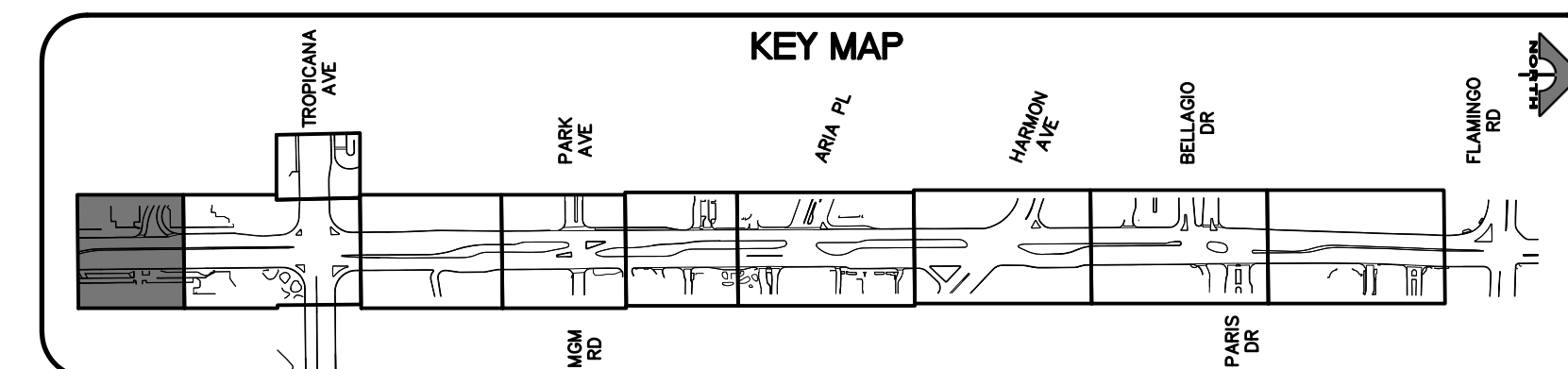
- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - 2 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - 3 ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
  - 4 ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - 5 ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - 6 ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - 7 ADJUST ELECTRIC PULLBOX TO GRADE
  - 8 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 9 RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - 10 RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - 11 ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - 12 ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - 13 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 14 INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - 15 ADJUST CATV MANHOLE TO GRADE (BY COX)
  - 16 RELOCATE CATV VAULT (BY COX)
  - 17 ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - 18 ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - 21 ABANDON WATER VALVE
  - 22 INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - 23 REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - 24 INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - 25 REMOVE WATERLINE
  - 26 INSTALL 6-INCH DIP WATERLINE
  - 27 ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - 28 ADJUST CATV VAULT (BY COX)
  - 29 ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - 30 REMOVE ABANDONED ELECTRIC VAULT
  - 31 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
  - 34 REMOVE MANHOLE FRAME/COVER, GRADE ADJUSTMENT, AND CONE FROM ABANDONED SANITARY SEWER MANHOLE (DCSWCS SECTION 3.18.2, METHOD B NOT ALLOWED)
  - P PROTECT-IN-PLACE
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



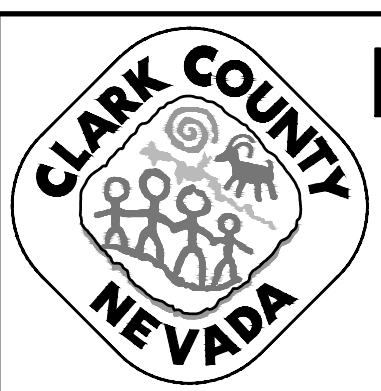
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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



REV. NO.	DATE	DESCRIPTION	APPROVED



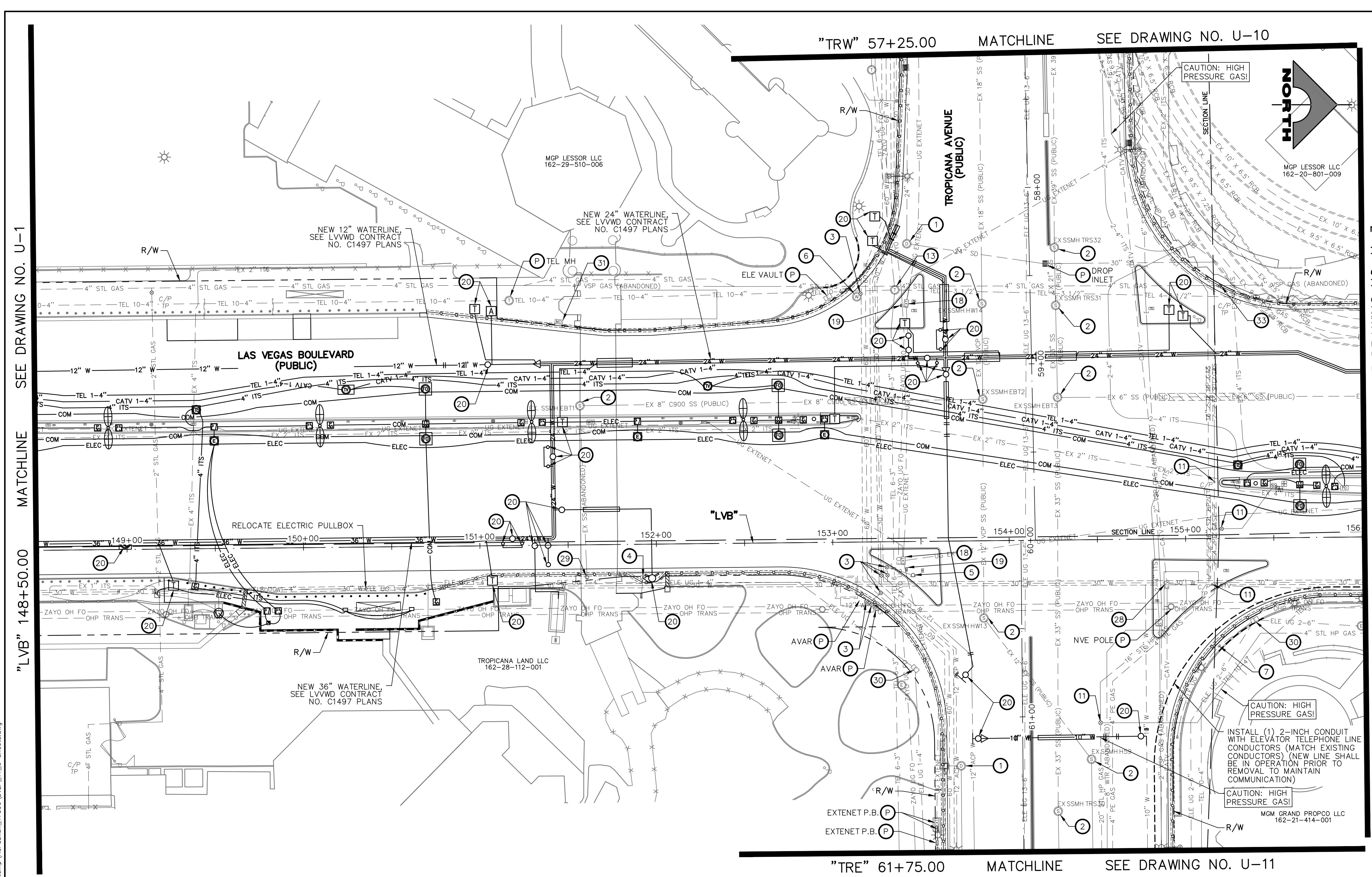
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**UTILITY PLAN**  
**"LVB" 144+00.00 TO "LVB" 148+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



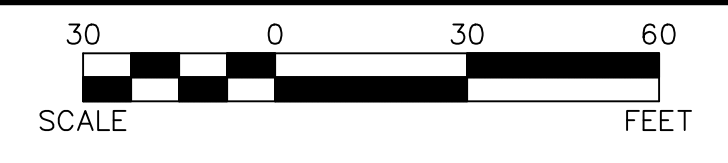
PROJECT No: 500-897-LV-EF DRAWN BY: DTK  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD., LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-1
VERT: NONE	SHT. 90 OF 169
FIELD BOOK	L-2304





- UTILITY NOTES**
- ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
  - ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - ADJUST ELECTRIC PULLBOX TO GRADE
  - ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - ADJUST CATV MANHOLE TO GRADE (BY COX)
  - RELOCATE CATV VAULT (BY COX)
  - ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - ABANDON WATER VALVE
  - INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
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  - INSTALL 6-INCH DIP WATERLINE
  - ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - ADJUST CATV VAULT (BY COX)
  - ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - REMOVE ABANDONED ELECTRIC VAULT
  - ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - RELOCATE CATHODIC TEST POINT (BY SWG)
  - REMOVE MANHOLE FRAME/COVER, GRADE ADJUSTMENT, AND CONE FROM ABANDONED SANITARY SEWER MANHOLE (DCSWCS SECTION 3.18.2, METHOD B NOT ALLOWED)
  - PROTECT-IN-PLACE
- NOTES**
- SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



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

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

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

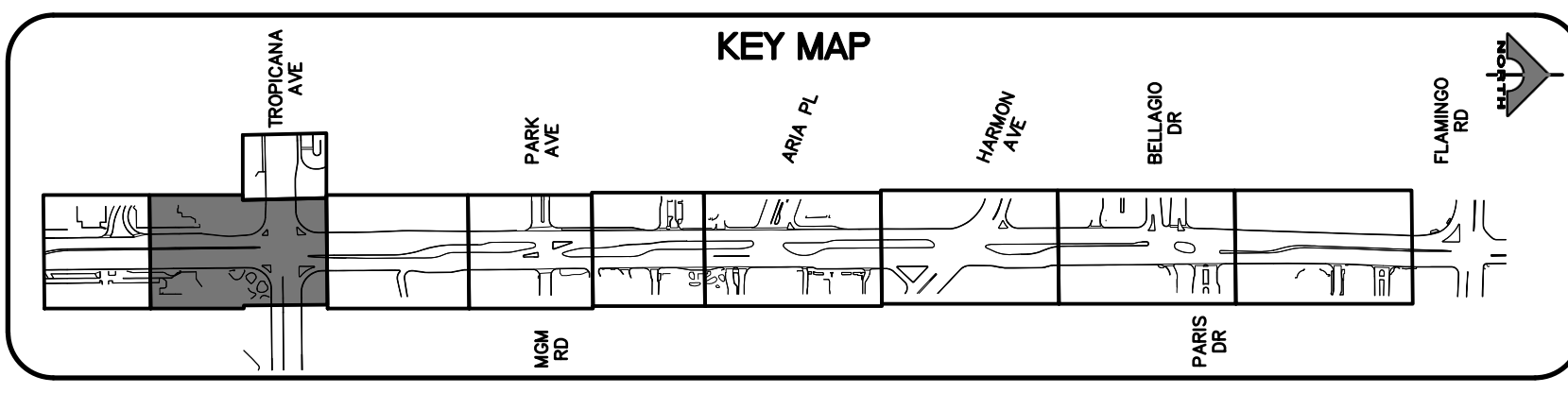
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

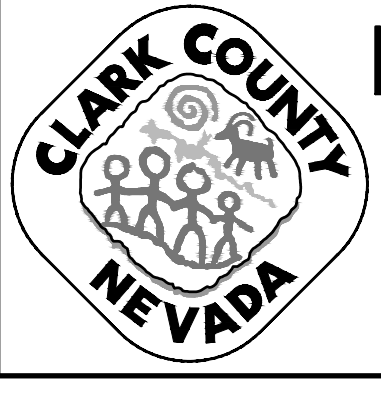
**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

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



REV. NO.	DATE	DESCRIPTION	APPROVED



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



PROJECT No: 500-897-LV-EF DRAWN BY: DKT  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

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

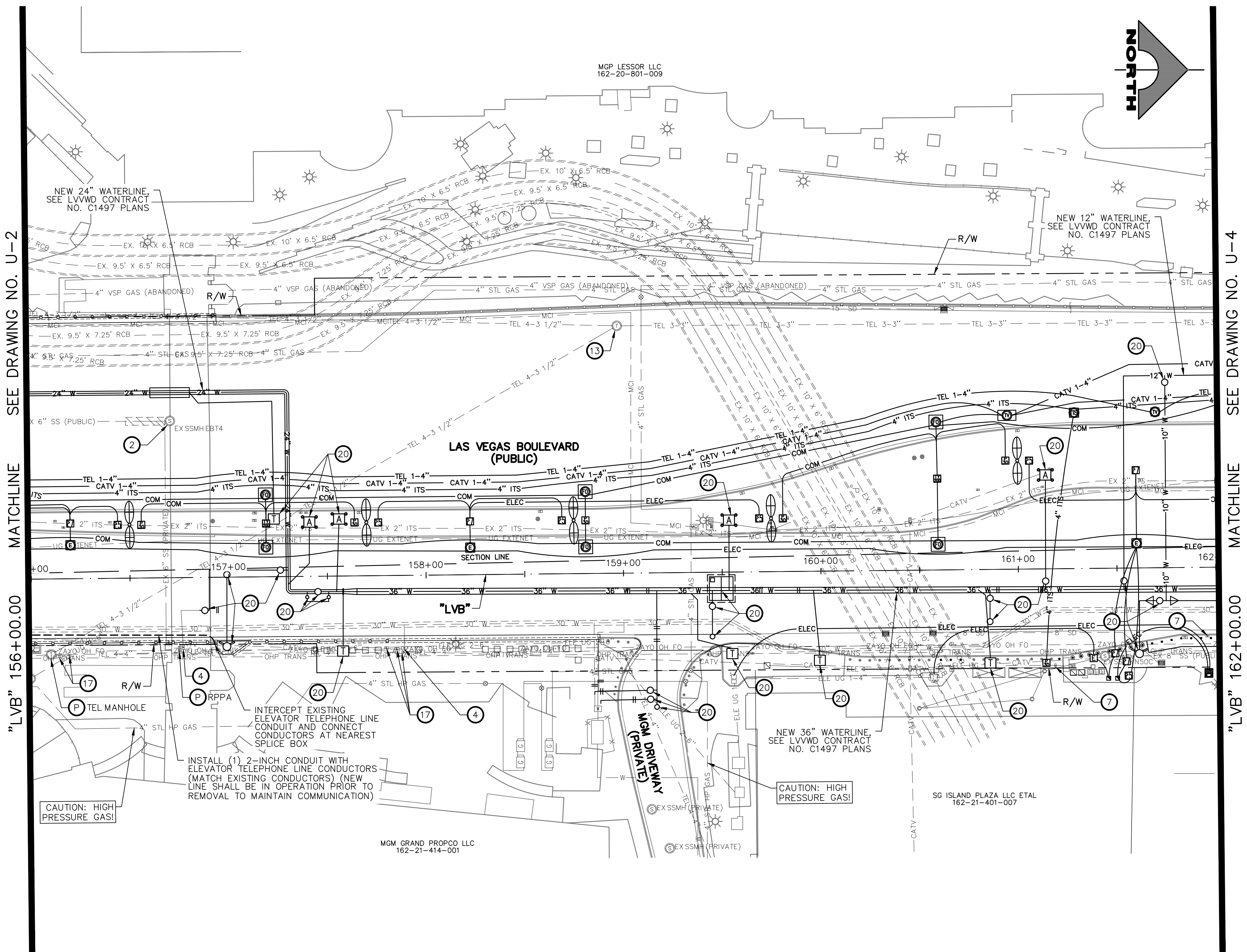
SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-2
VERT: NONE	SHT. 91 OF 169
FIELD BOOK	L-2304

10-15-21 11:20:53 C:\Users\jdhines\Documents\Projects\Las Vegas\Drawings\Utility\17560\LV\_EF\_11\_U\_Sheets.dwg

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



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10-15-21 11:21:11  
Jhines



- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (UDCCA STD. DWG. NO. 408)
  - 2 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - 3 ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
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  - 5 ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - 6 ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - 7 ADJUST ELECTRIC PULLBOX TO GRADE
  - 8 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 9 RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - 10 RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - 11 ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - 12 ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - 13 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 14 INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - 15 ADJUST CATV MANHOLE TO GRADE (BY COX)
  - 16 RELOCATE CATV VAULT (BY COX)
  - 17 ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - 18 ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - 21 ABANDON WATER VALVE
  - 22 INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - 23 REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - 24 INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - 25 REMOVE WATERLINE
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  - 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
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  - P PROTECT-IN-PLACE
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS
- SCALE: 30 0 30 60 FEET

**CAUTION: HIGH PRESSURE GAS!!!**  
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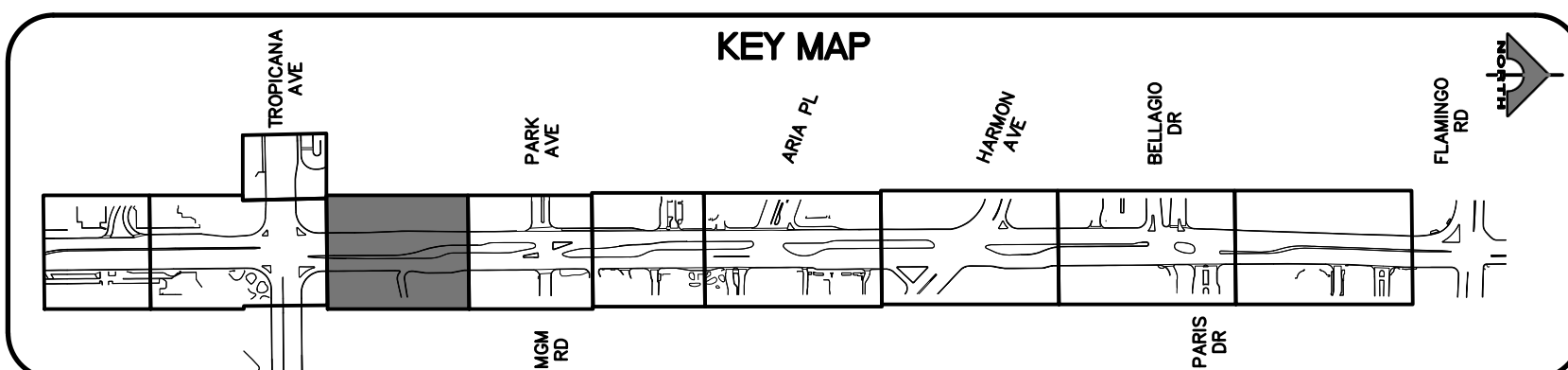
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_


**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

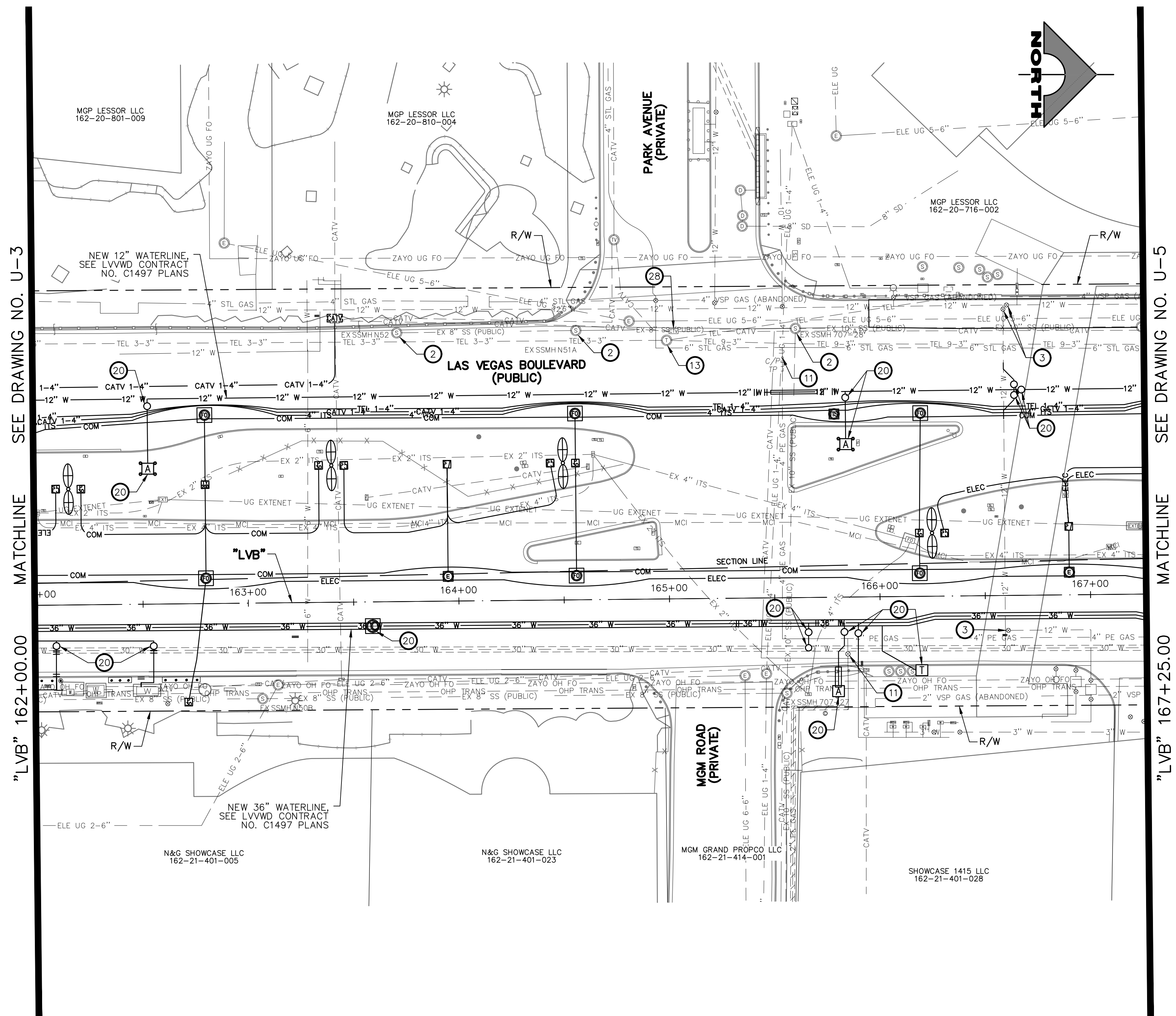

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**UTILITY PLAN**  
**"LVB" 156+00.00 TO "LVB" 162+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF	DRAWN BY: DKT	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	U-3
APPROVED BY: _____	1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com	VERT: NONE	SHT. 92 OF 169
<b>GCV</b> ENGINEERS \ SURVEYORS		FIELD BOOK	L-2304

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





- UTILITY NOTES**
- ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
  - ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
  - ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - ADJUST ELECTRIC PULLBOX TO GRADE
  - ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - ADJUST CATV MANHOLE TO GRADE (BY COX)
  - RELOCATE CATV VAULT (BY COX)
  - ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - ABANDON WATER VALVE
  - INSTALL 12" X 6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - REMOVE WATERLINE
  - INSTALL 6-INCH DIP WATERLINE
  - ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - ADJUST CATV VAULT (BY COX)
  - ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - REMOVE ABANDONED ELECTRIC VAULT
  - ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - RELOCATE CATHODIC TEST POINT (BY SWG)
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  - PROTECT-IN-PLACE
- NOTES**
- SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS
- 30 0 30 60  
SCALE FEET

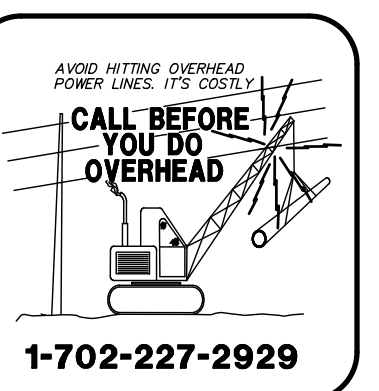
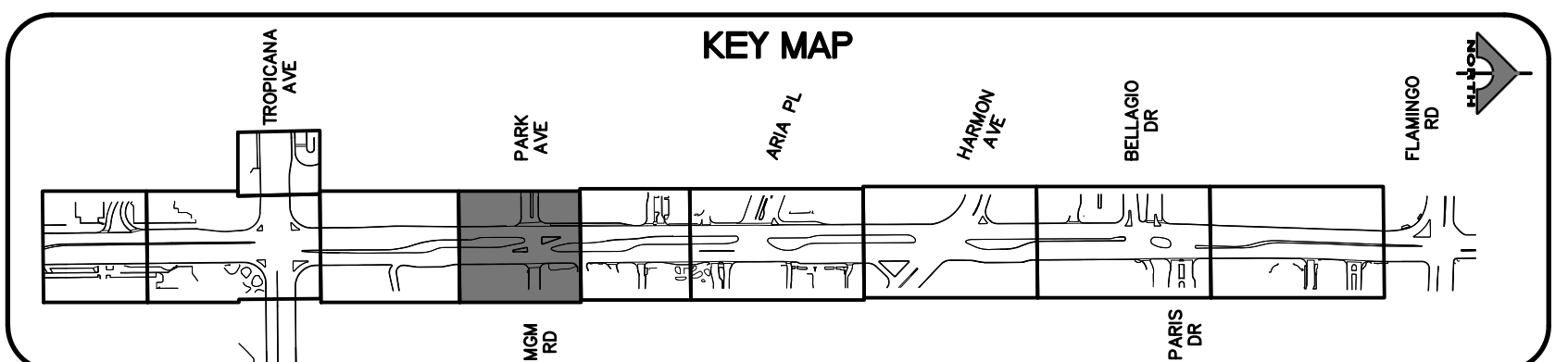
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139022  
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
**COWRD PIPES NUMBER: 21.983**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



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

REV. NO.	DATE	DESCRIPTION	APPROVED

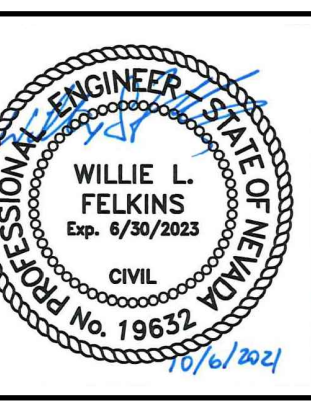
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**UTILITY PLAN**

**"LVB" 162+00.00 TO "LVB" 167+25.00**

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



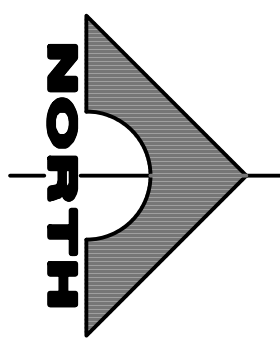
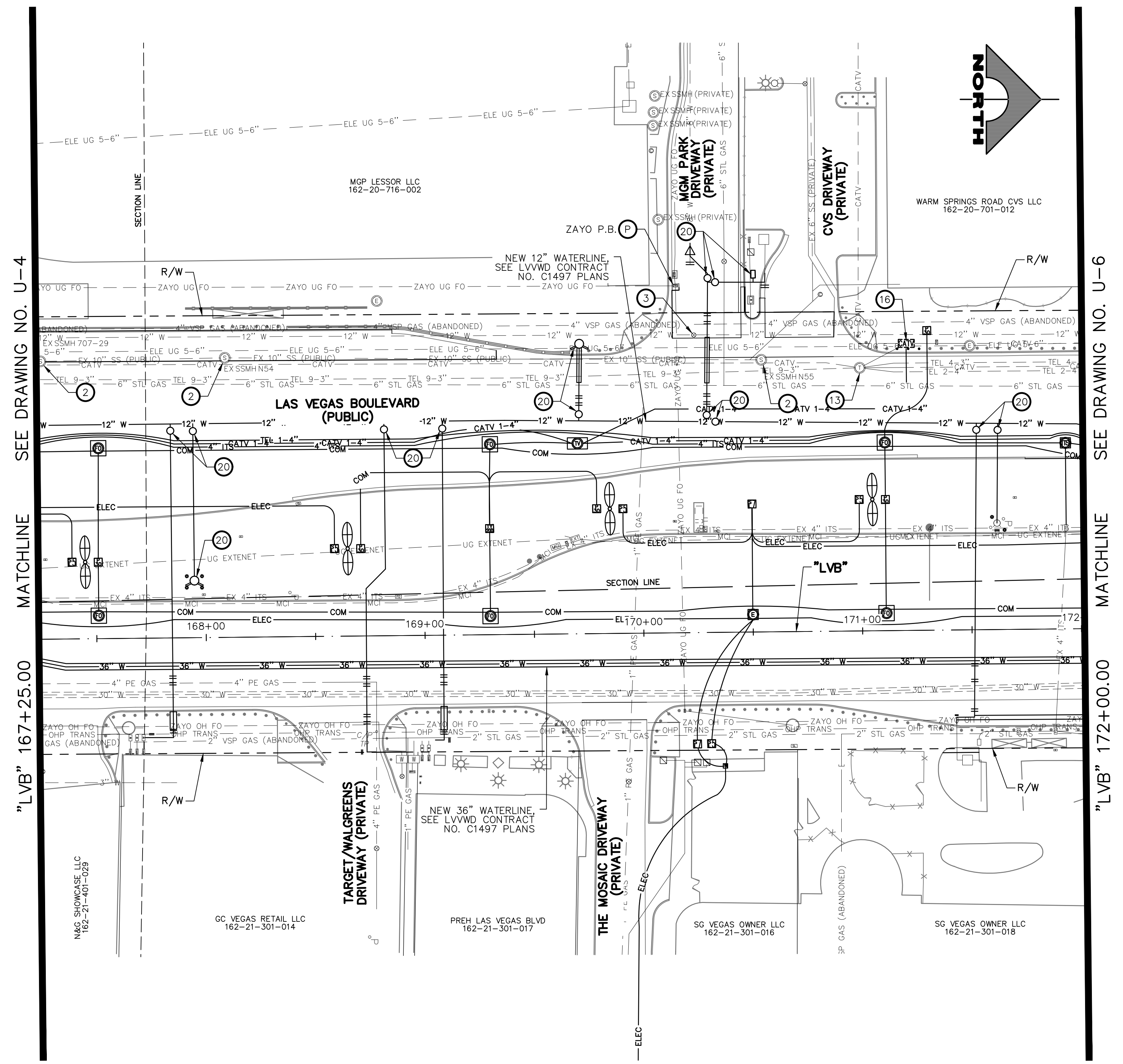
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DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	U-4
APPROVED BY: _____		VERT: NONE	SHT. 93 OF 169
<b>GCV</b> ENGINEERS \ SURVEYORS 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcwengineering.com		FIELD BOOK	L-2304

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 Jrhines

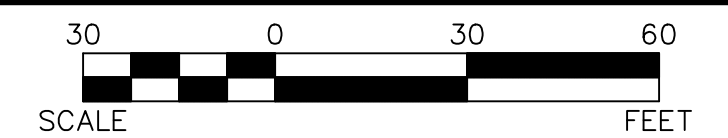
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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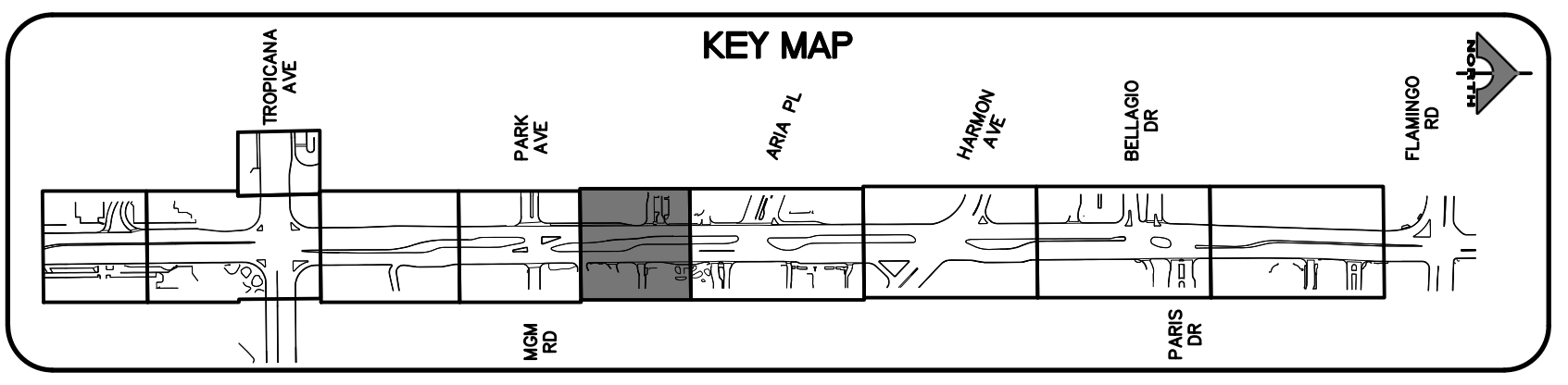
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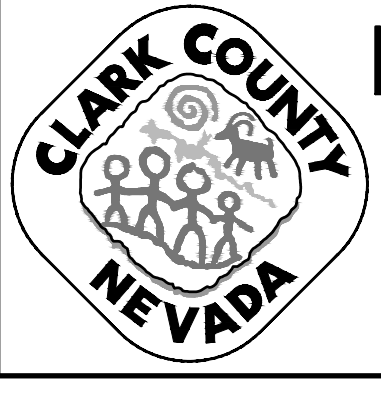
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 14 DAYS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

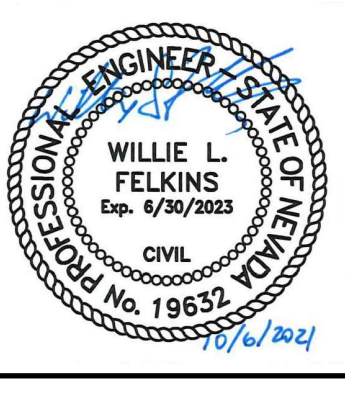
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY \_\_\_\_\_ DATE \_\_\_\_\_  
**CCWRD PIPES NUMBER: 21.983**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**UTILITY PLAN**  
**"LVB" 167+25.00 TO "LVB" 172+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



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

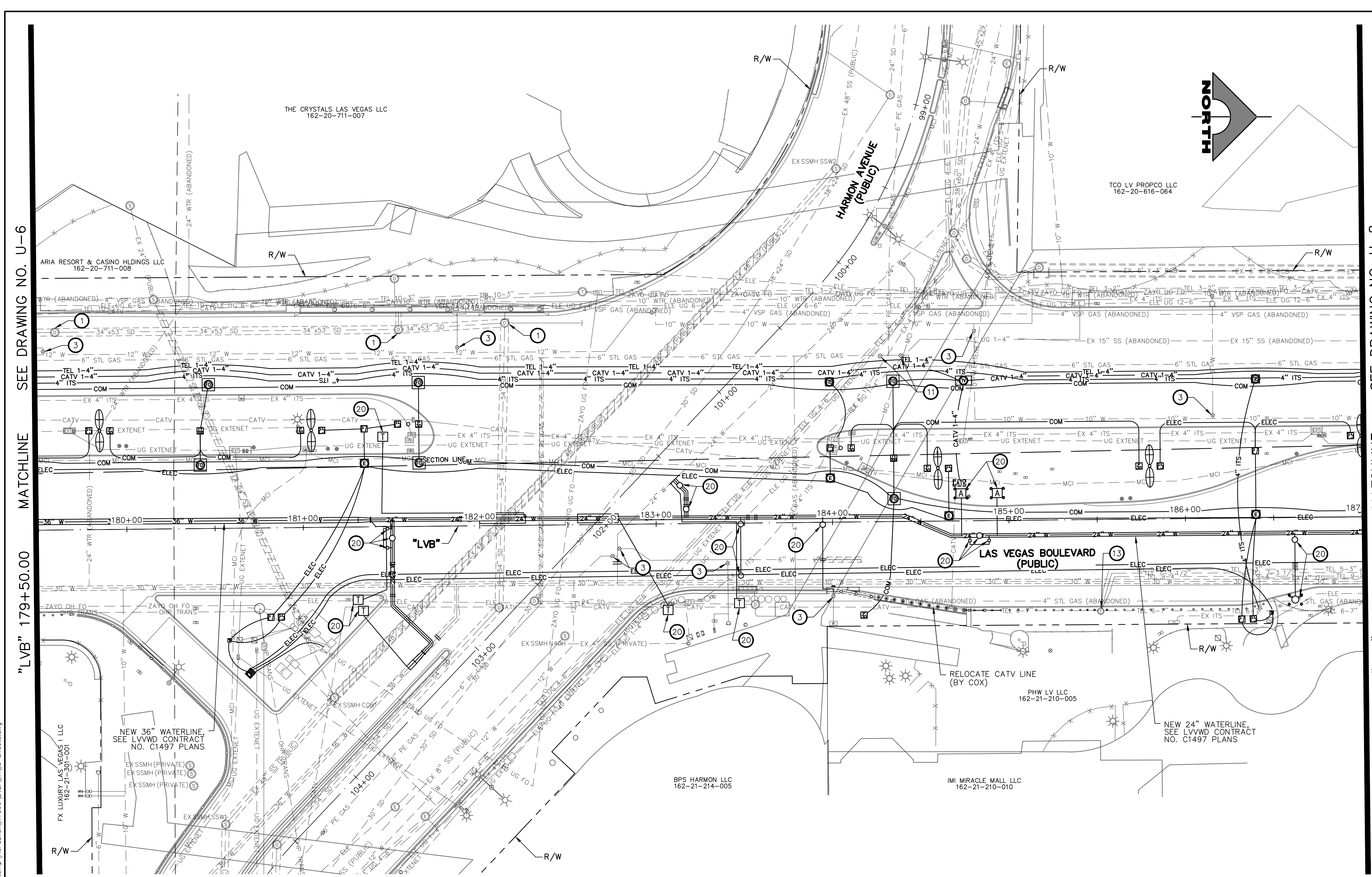
SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>U-5</b>
VERT: NONE	SHT. 94 OF 169
FIELD BOOK	L-2304

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

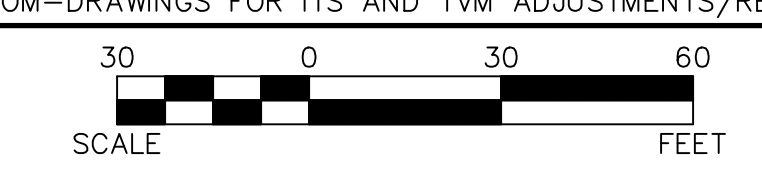








- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (UDSCA STD. DWG. NO. 408)
  - 2 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - 3 ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
  - 4 ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - 5 ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - 6 ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - 7 ADJUST ELECTRIC PULLBOX TO GRADE
  - 8 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 9 RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - 10 RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - 11 ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - 12 ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - 13 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 14 INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - 15 ADJUST CATV MANHOLE TO GRADE (BY COX)
  - 16 RELOCATE CATV VAULT (BY COX)
  - 17 ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - 18 ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - 21 ABANDON WATER VALVE
  - 22 INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - 23 REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - 24 INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - 25 REMOVE WATERLINE
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  - 27 ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - 28 ADJUST CATV VAULT (BY COX)
  - 29 ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - 30 REMOVE ABANDONED ELECTRIC VAULT
  - 31 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
  - 34 REMOVE MANHOLE FRAME/COVER, GRADE ADJUSTMENT, AND CONE FROM ABANDONED SANITARY SEWER MANHOLE (DCSWCS SECTION 3.18.2, METHOD B NOT ALLOWED)
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



MATCHLINE SEE DRAWING NO. U-6

MATCHLINE SEE DRAWING NO. U-8

"LVB" 179+50.00

"LVB" 187+00.00

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

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

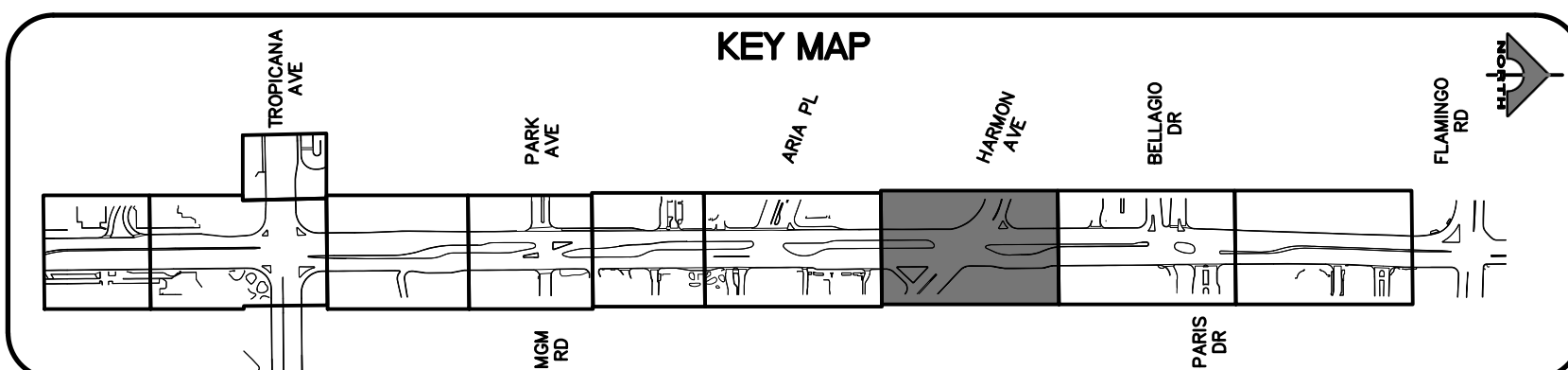
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

CCWRD PIPES NUMBER: **21.983**

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



**SOUTHWEST GAS VALVE NOTE**

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

REV. NO.	DATE	DESCRIPTION	APPROVED

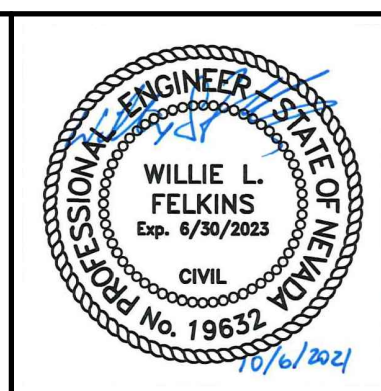


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**UTILITY PLAN**

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

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



PROJECT No: 500-897-LV-EF DRAWN BY: DKT  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS

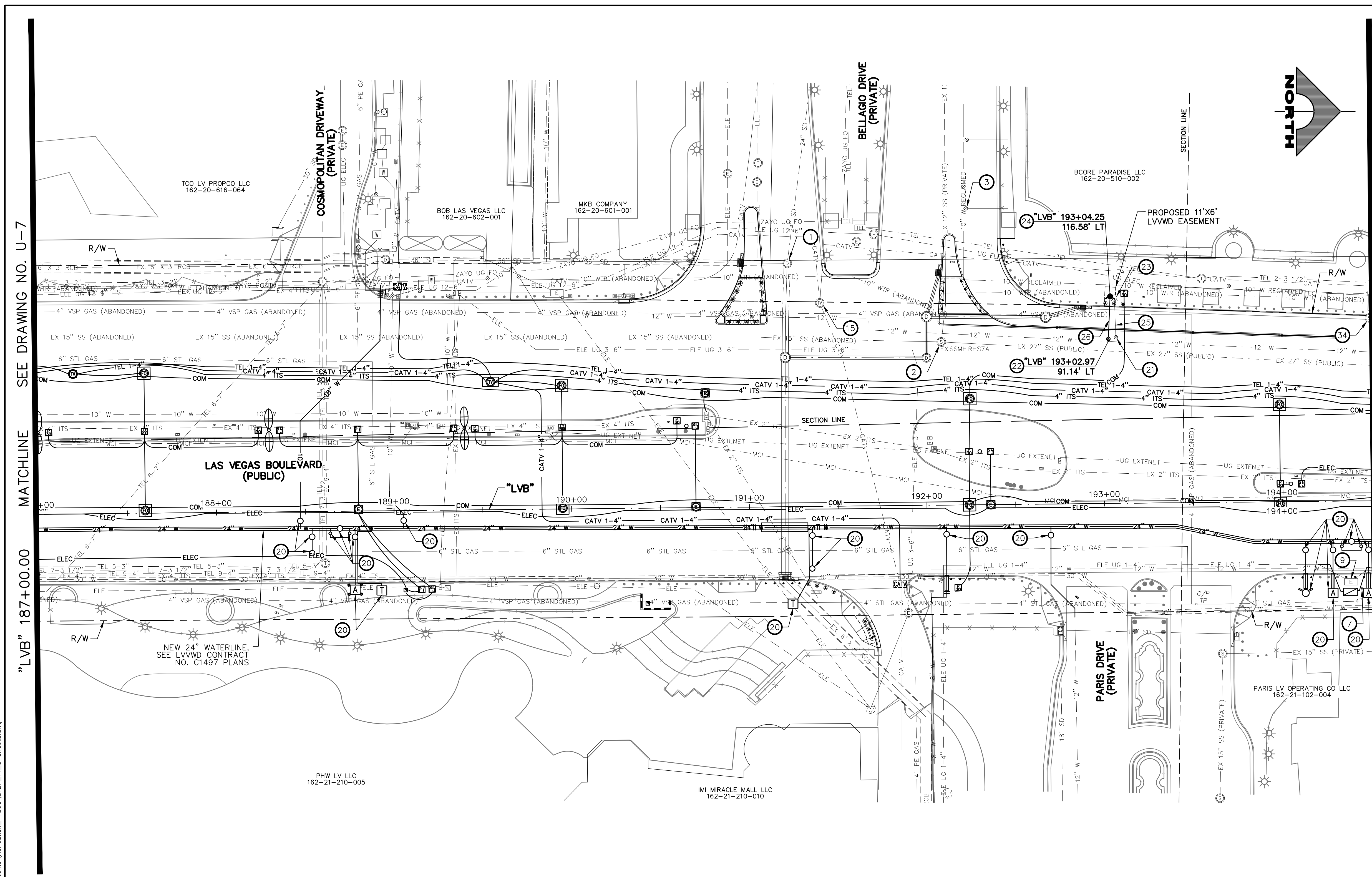
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

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

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



10-15-21 11:22:44 G:\Users\jdhines\Documents\Projects\Las Vegas\Las Vegas\17560\LVF\_U\_Sheets.dwg



MATCHLINE SEE DRAWING NO. U-7

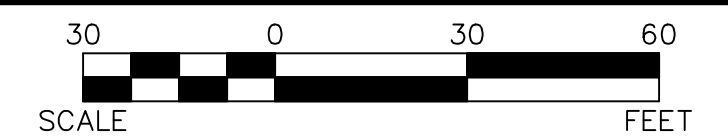
MATCHLINE SEE DRAWING NO. U-9

"LVB" 187+00.00

"LVB" 194+50.00

**UTILITY NOTES**

- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (UDSCA STD. DWG. NO. 408)
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- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



**BOLLARD NOTE**

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

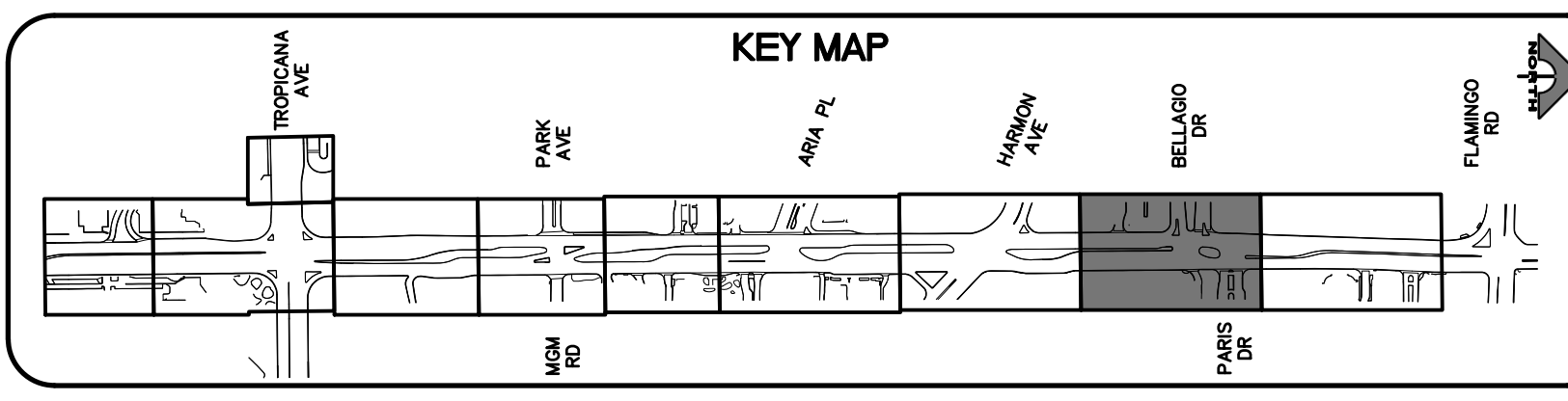
**ABANDONED VALVES CUT AND CAP**

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED, IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE NO. 31.

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CALL BEFORE YOU DIG**  
Avoid hitting overhead power lines. It's costly.  
1-702-227-2929

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**UTILITY PLAN**

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

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

**PROFESSIONAL ENGINEER STATE OF NEVADA**  
WILLIE L. FELKINS  
Exp. 6/30/2023  
CIVIL  
No. 19653

PROJECT No: 500-897-LV-EF DRAWN BY: DKT  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

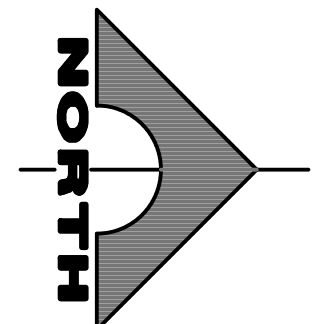
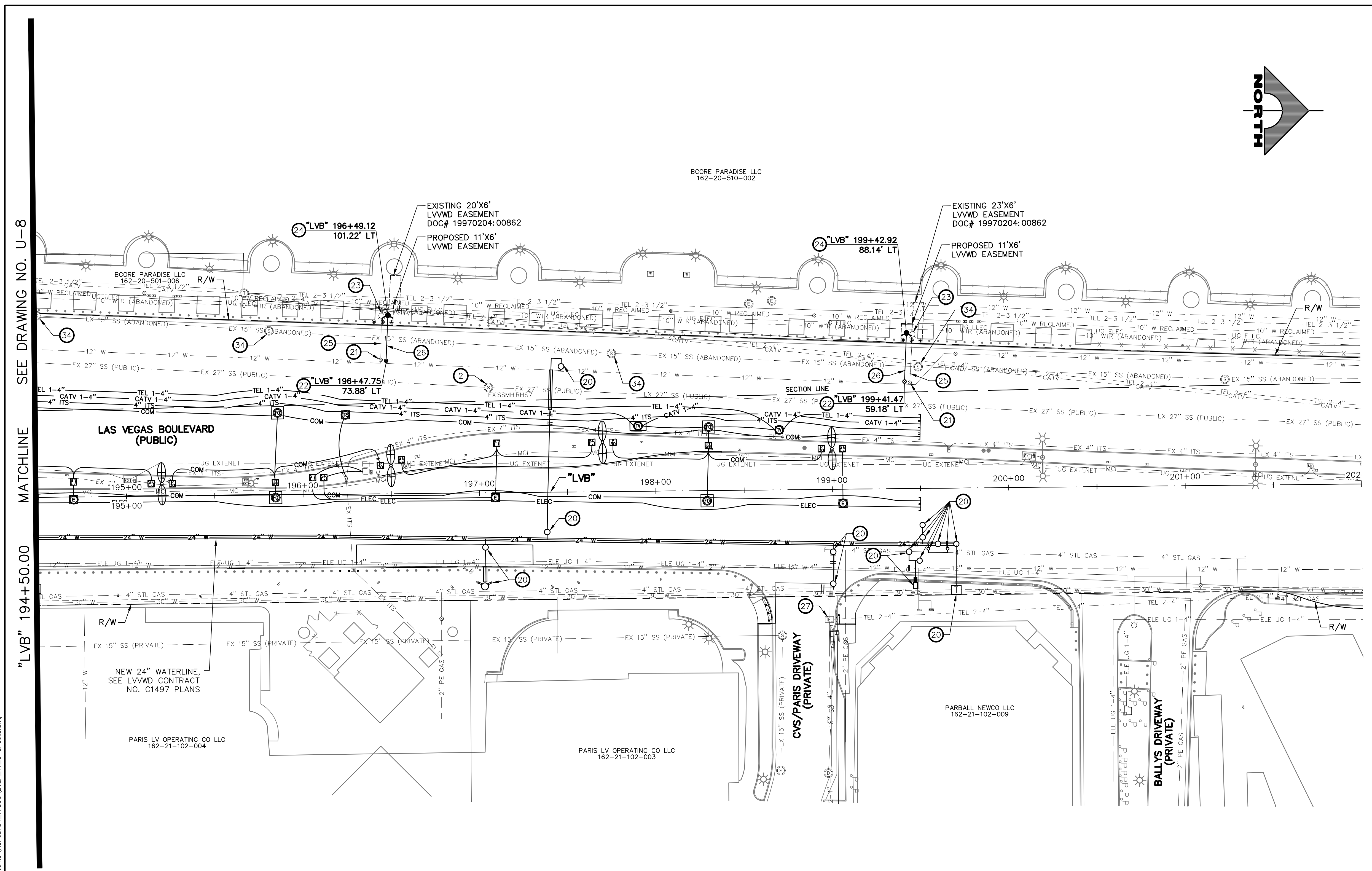
**GCV**  
ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-8
VERT: NONE	SHT. 97 OF 169
FIELD BOOK	L-2304

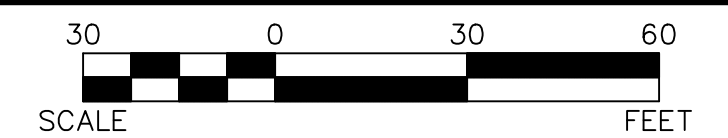
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 605978-21



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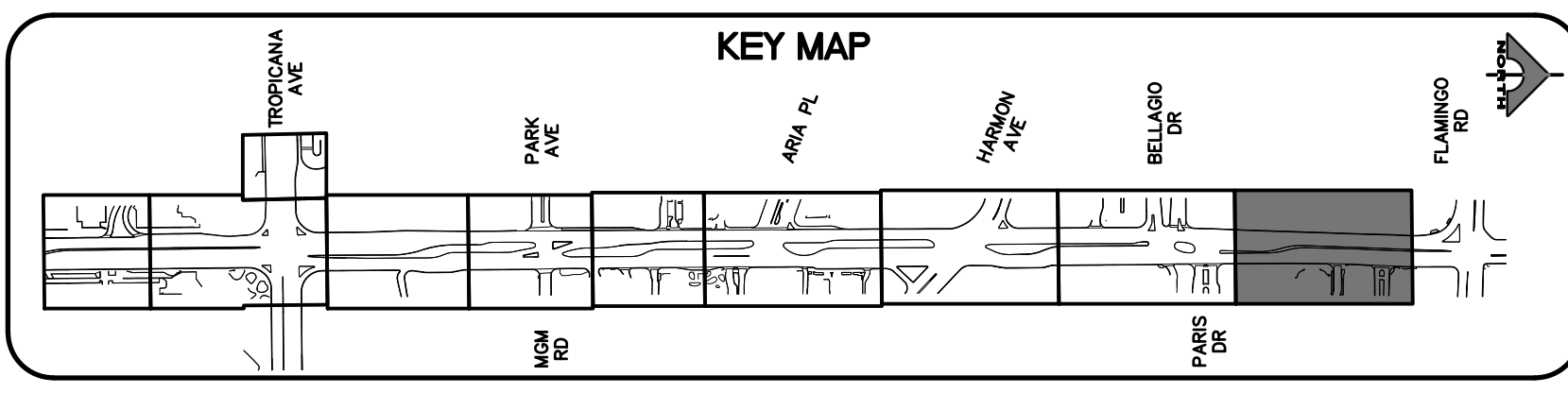


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PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**



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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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

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

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**UTILITY PLAN**

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

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

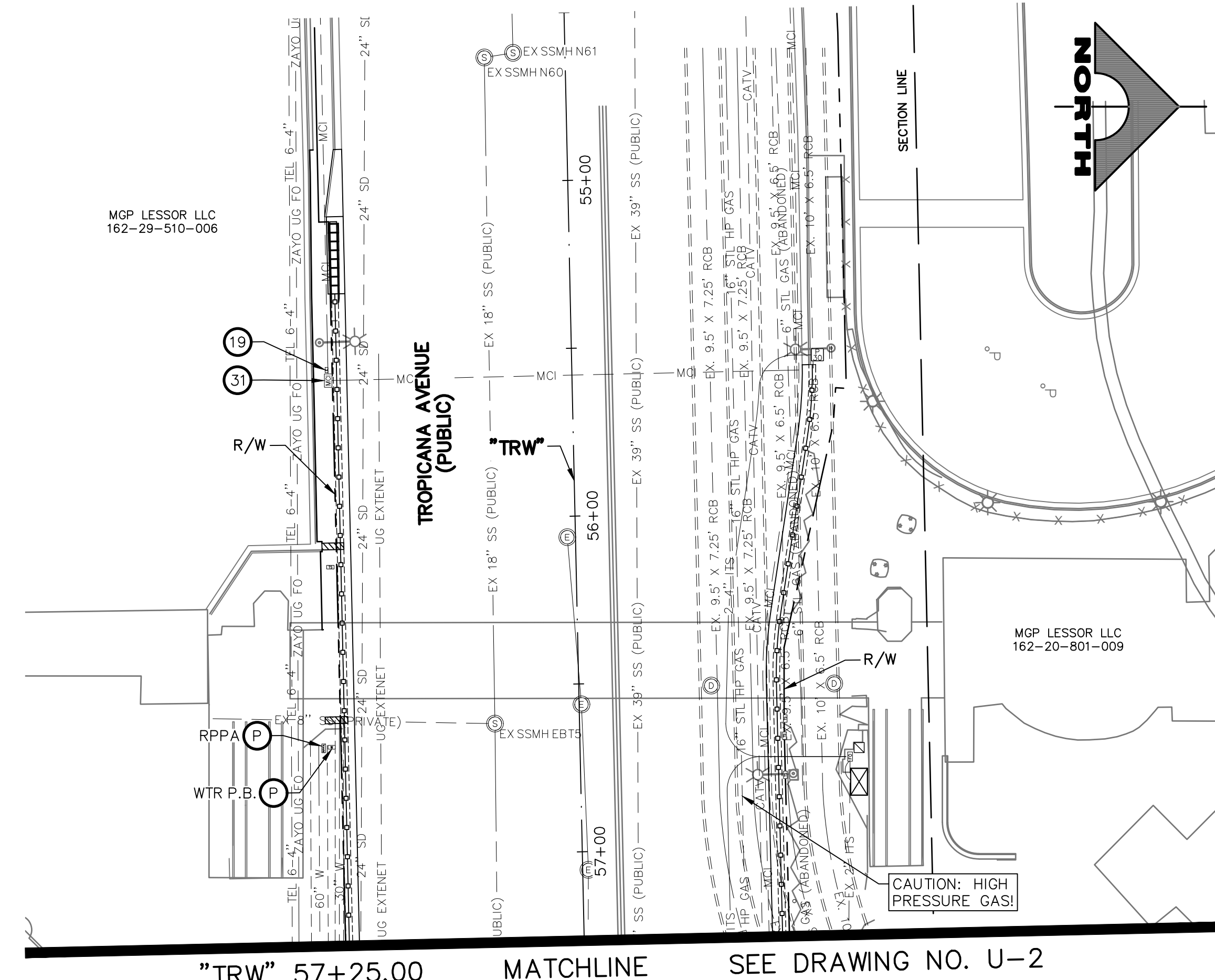
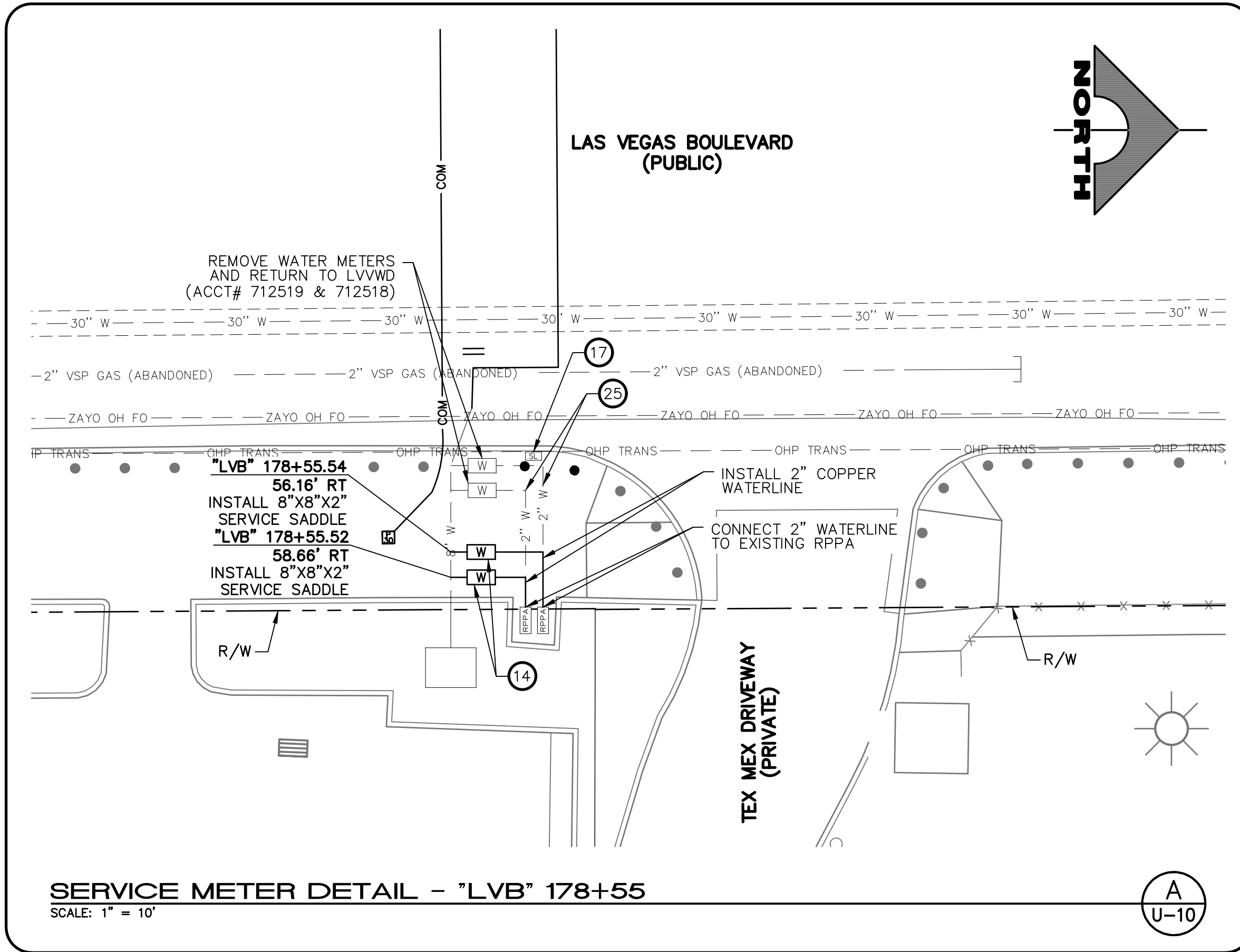
PROJECT No: 500-897-LV-EF DRAWN BY: DKT  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_

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

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

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





- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (USDCCA STD. DWG. NO. 408)
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  - 21 ABANDON WATER VALVE
  - 22 INSTALL 12\"/>
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS
- SCALE: 1" = 10'
- SCALE: 30 0 30 60 FEET

**ABANDONMENT OF EXISTING SERVICE LATERALS (TWO (2) INCH AND SMALLER)**

THE CONTRACTOR SHALL NOTIFY THE AGENCY TWO (2) FULL BUSINESS DAYS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE AGENCY TO TAKE THE FINAL METER READING. THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

EXISTING SERVICE LATERALS TO BE ABANDONED FROM EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY THE AGENCY. IF IT IS DISCOVERED THE CORPORATION STOP IS NOT WATER TIGHT, THROUGH NO FAULT OF THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY THE AGENCY FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE AGENCY.

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

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

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

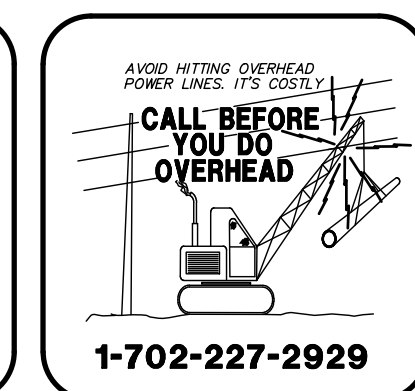
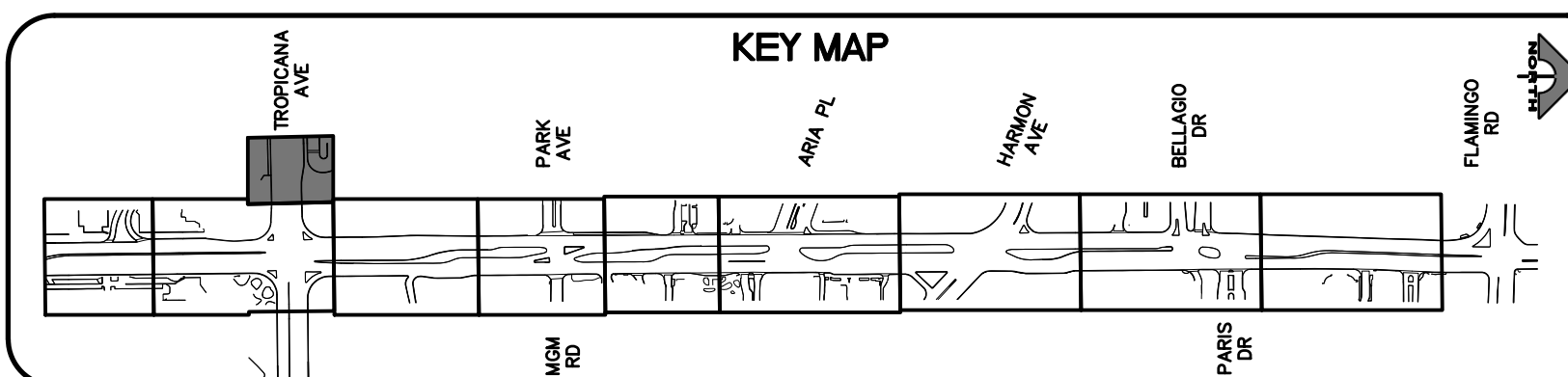
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**UTILITY PLAN**

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

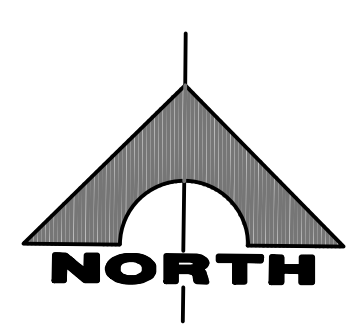
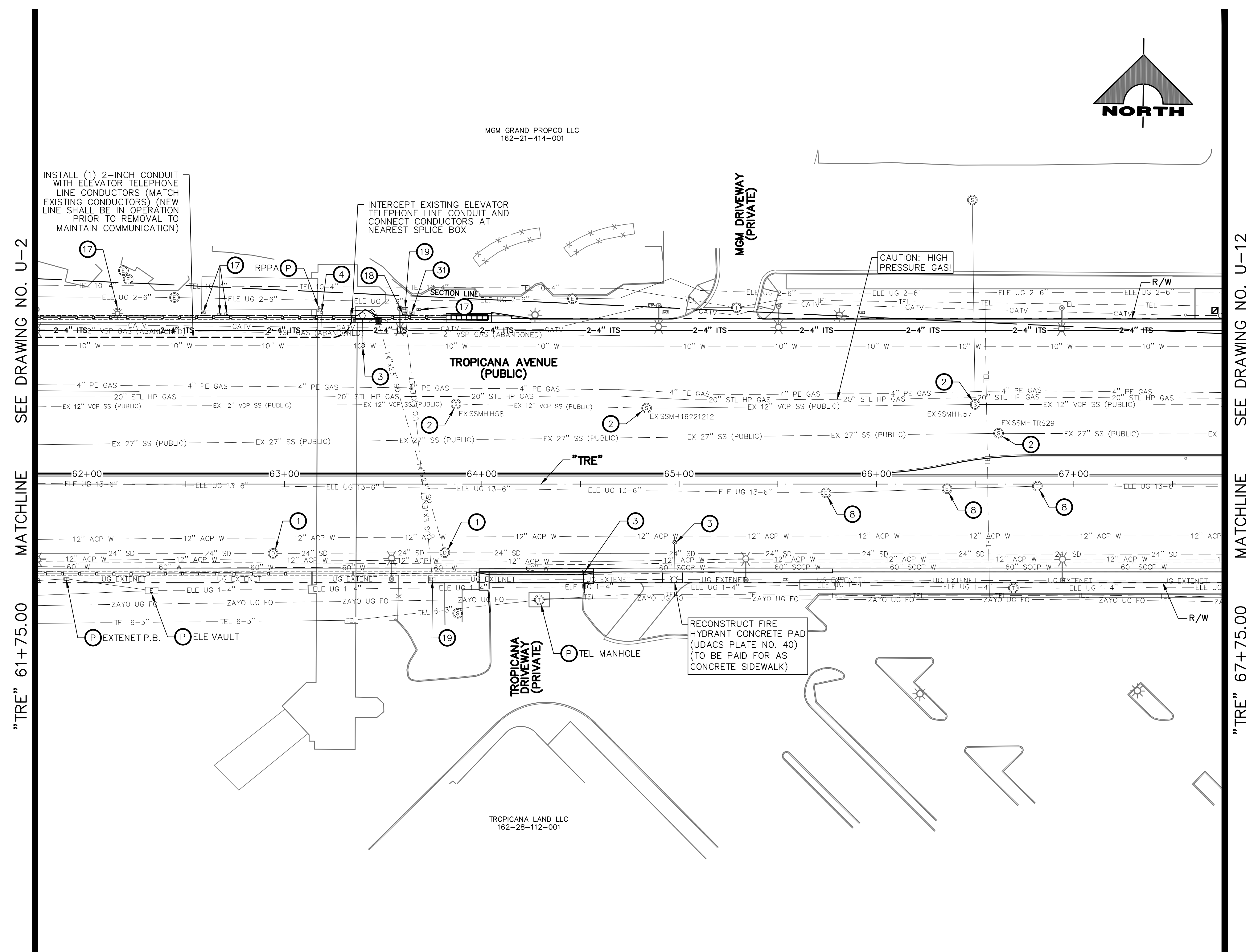
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



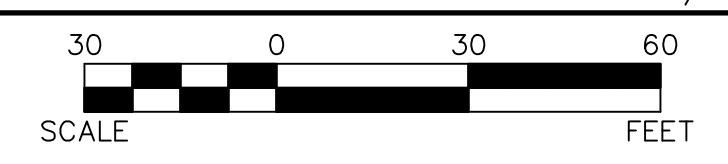
PROJECT No: 500-897-LV-EF	DRAWN BY: DKT	SCALE	DRAWING NO.
DESIGNED BY: DSH	CHECKED BY: WLF	HORIZ: AS SHOWN	U-10
APPROVED BY: _____		VERT: NONE	SHT. 99 OF 169
		FIELD BOOK	L-2304



10-13-21 11:48:40 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_T1A\_U\_Sheets.dwg



- UTILITY NOTES**
- ADJUST STORM DRAIN MANHOLE TO GRADE (UDCSA STD. DWG. NO. 40B)
  - ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
  - ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - ADJUST ELECTRIC PULLBOX TO GRADE
  - ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - ADJUST CATV MANHOLE TO GRADE (BY COX)
  - RELOCATE CATV VAULT (BY COX)
  - ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - ABANDON WATER VALVE
  - INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - REMOVE WATERLINE
  - INSTALL 6-INCH DIP WATERLINE
  - ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - ADJUST CATV VAULT (BY COX)
  - ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - REMOVE ABANDONED ELECTRIC VAULT
  - ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - RELOCATE CATHODIC TEST POINT (BY SWG)
  - REMOVE MANHOLE FRAME/COVER, GRADE ADJUSTMENT, AND CONE FROM ABANDONED SANITARY SEWER MANHOLE (DCSWCS SECTION 3.18.2, METHOD B NOT ALLOWED)
- NOTES**
- SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



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

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

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

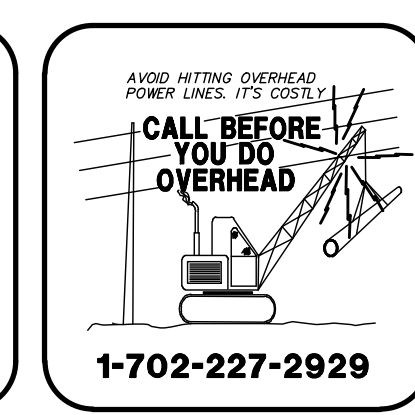
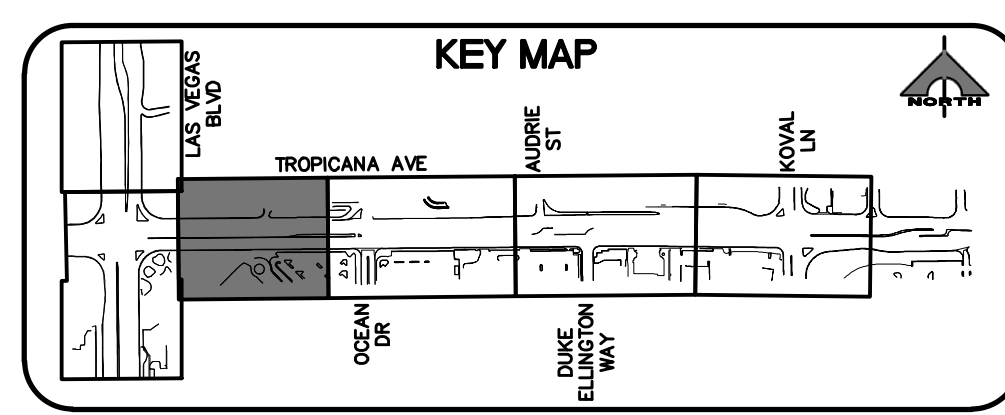
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

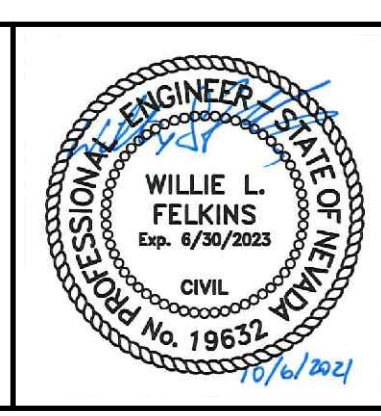
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

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

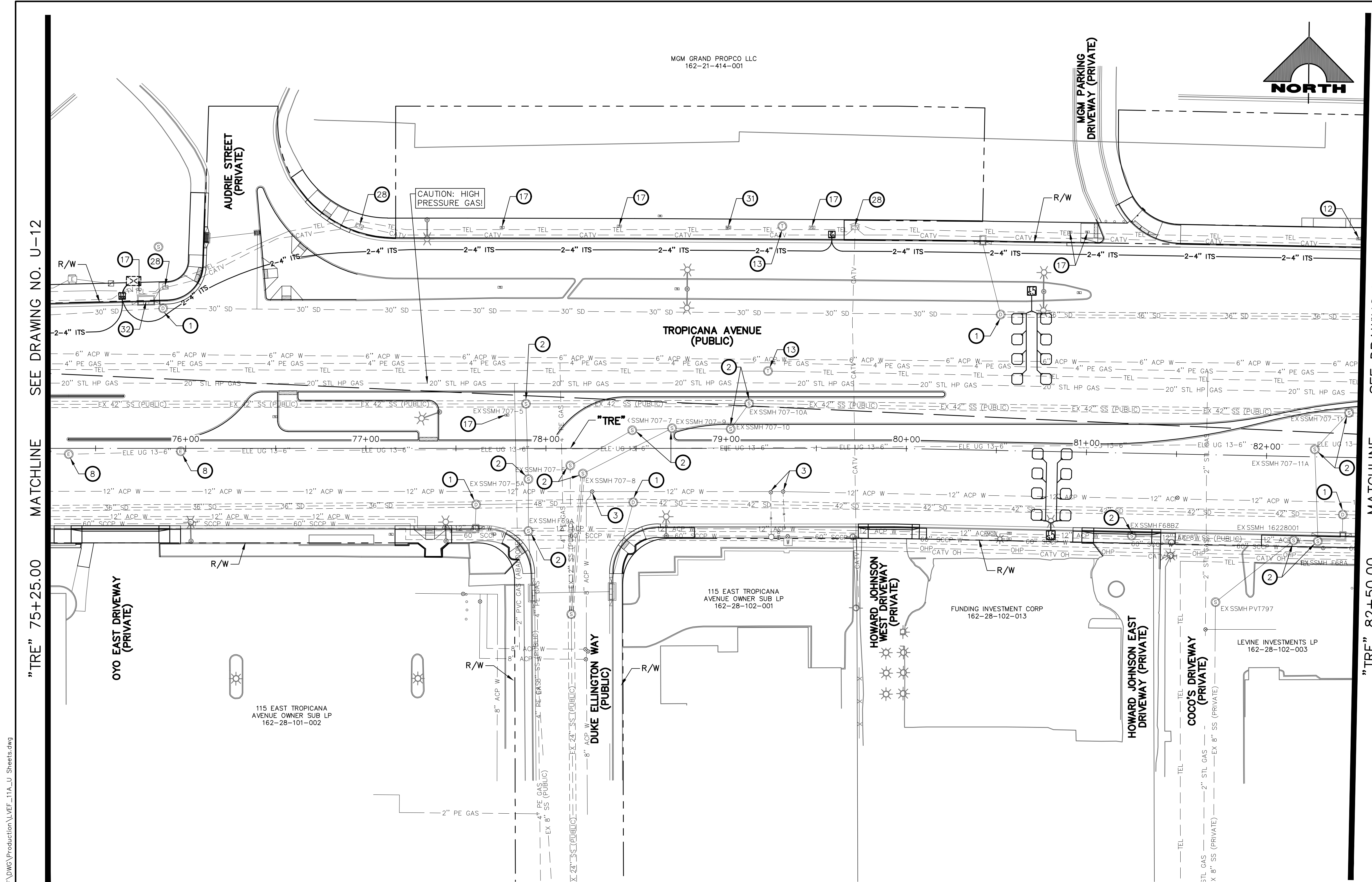
SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-11
VERT: NONE	SHT. 100 OF 169
FIELD BOOK	L-2304

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









- UTILITY NOTES**
- 1 ADJUST STORM DRAIN MANHOLE TO GRADE (UDCSA STD. DWG. NO. 40B)
  - 2 ADJUST SANITARY SEWER MANHOLE TO GRADE (DCSWCS STD. DWG. NOS. SD-4 AND SD-5)
  - 3 ADJUST WATER VALVE BOX COVER TO GRADE (UDCAS PLATE NO. 39)
  - 4 ADJUST WATER METER BOX TO GRADE (UDACS PLATE NO. 4)
  - 5 ADJUST WATER BLOWOFF TO GRADE (UDACS PLATE NO. 36)
  - 6 ADJUST WATER MANHOLE TO GRADE (SEE DETAIL D, DWG. DT-8)
  - 7 ADJUST ELECTRIC PULLBOX TO GRADE
  - 8 ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - 9 RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - 10 RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - 11 ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - 12 ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - 13 ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - 14 INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - 15 ADJUST CATV MANHOLE TO GRADE (BY COX)
  - 16 RELOCATE CATV VAULT (BY COX)
  - 17 ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - 18 ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
  - 19 ADJUST ELECTRIC PULLBOX TO GRADE (BY EXTENET)
  - 20 SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - 21 ABANDON WATER VALVE
  - 22 INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - 23 REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - 24 INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - 25 REMOVE WATERLINE
  - 26 INSTALL 6-INCH DIP WATERLINE
  - 27 ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - 28 ADJUST CATV VAULT (BY COX)
  - 29 ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - 30 REMOVE ABANDONED ELECTRIC VAULT
  - 31 ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - 32 REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - 33 RELOCATE CATHODIC TEST POINT (BY SWG)
  - 34 REMOVE MANHOLE FRAME/COVER, GRADE ADJUSTMENT, AND CONE FROM ABANDONED SANITARY SEWER MANHOLE (DCSWCS SECTION 3.18.2, METHOD B NOT ALLOWED)
- NOTES**
1. SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



SEE DRAWING NO. U-12

SEE DRAWING NO. U-14

MATCHLINE

MATCHLINE

"TRE" 75+25.00

"TRE" 82+50.00

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

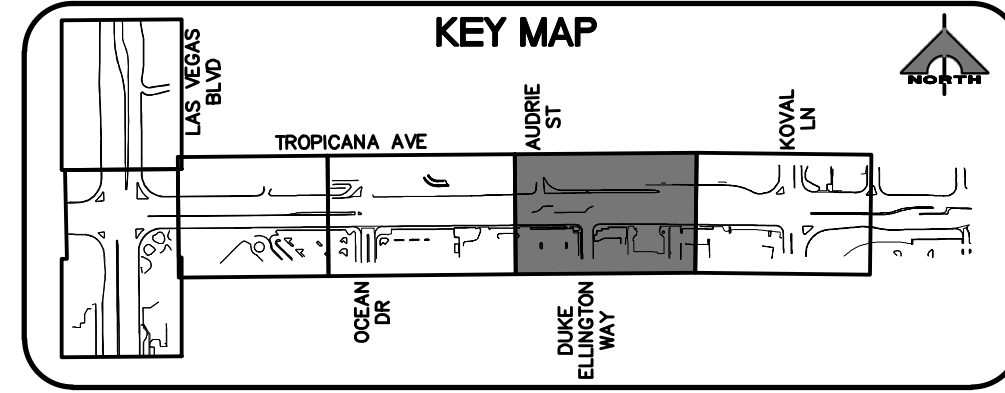
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

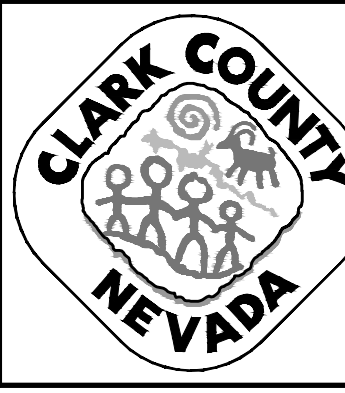
**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

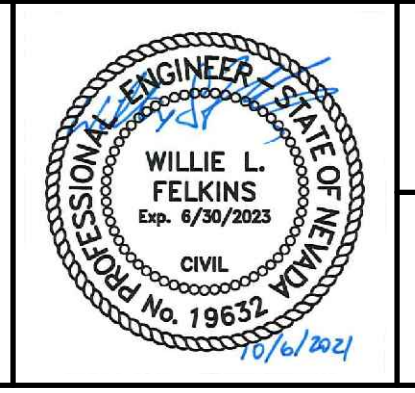
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**UTILITY PLAN**  
"TRE" 75+25.00 TO "TRE" 82+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



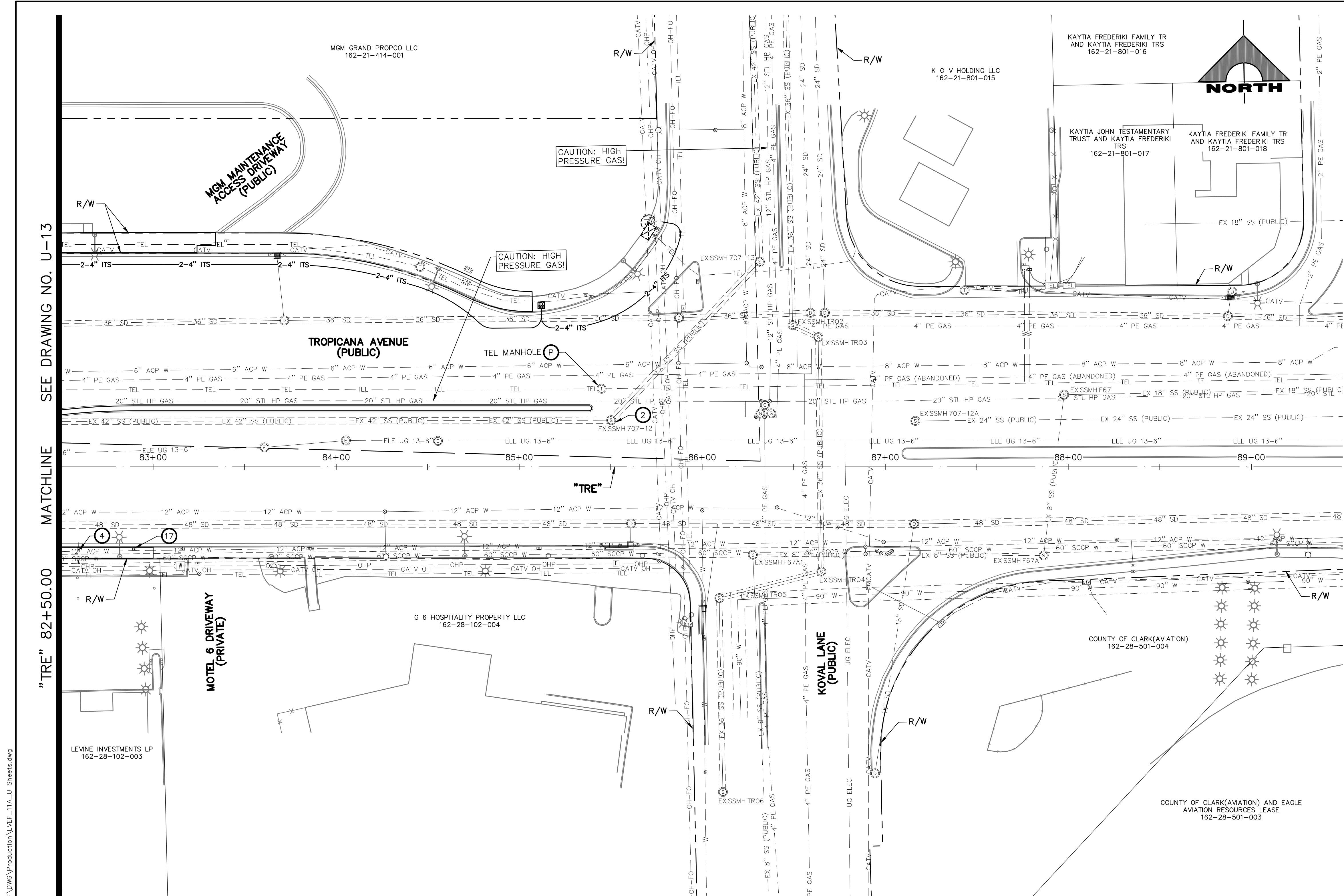
PROJECT No: 500-897-LV-EF DRAWN BY: JAP  
DESIGNED BY: DSH CHECKED BY: WLF  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
DRAWING NO. **U-13**  
SHT. 102 OF 169  
L-2304

10-13-21 11:48:49 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_T1A\_U\_Sheets.dwg

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





- UTILITY NOTES**
- ADJUST STORM DRAIN MANHOLE TO GRADE (UDCSA STD. DWG. NO. 40B)
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  - ADJUST ELECTRIC PULLBOX TO GRADE
  - ADJUST ELECTRIC MANHOLE TO GRADE (BY NV ENERGY)
  - RELOCATE ELECTRIC VAULT (BY NV ENERGY)
  - RELOCATE ELECTRIC PULLBOX (BY NV ENERGY)
  - ADJUST GAS VALVE COVER OR CATHODIC TEST POINT COVER TO GRADE (BY SWG)
  - ADJUST TELEPHONE PULLBOX TO GRADE (BY CENTURYLINK)
  - ADJUST TELEPHONE MANHOLE TO GRADE (BY CENTURYLINK)
  - INSTALL 2-INCH WATER METER (UDACS PLATE NO. 4)
  - ADJUST CATV MANHOLE TO GRADE (BY COX)
  - RELOCATE CATV VAULT (BY COX)
  - ADJUST TRAFFIC SIGNAL/STREET LIGHTING PULLBOX TO GRADE
  - ADJUST FIBER OPTIC VAULT TO GRADE (BY EXTENET)
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  - SEE LVVWD CONTRACT NO. C1497 PLANS FOR NEW WATERLINE AND APPURTENANCES
  - ABANDON WATER VALVE
  - INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE (UDACS PLATE NOS. 30, 31, 34, AND 39)
  - REMOVE FIRE HYDRANT AND RETURN TO LVVWD
  - INSTALL FIRE HYDRANT (UDACS PLATE NO. 40)
  - REMOVE WATERLINE
  - INSTALL 6-INCH DIP WATERLINE
  - ADJUST TELEPHONE VAULT (BY CENTURYLINK)
  - ADJUST CATV VAULT (BY COX)
  - ADJUST SANITARY SEWER CLEANOUT TO GRADE (DCSWCS STD. DWG. NO. SD-24)
  - REMOVE ABANDONED ELECTRIC VAULT
  - ADJUST MCI PULLBOX TO GRADE (BY VERIZON BUSINESS)
  - REMOVE AND CONSTRUCT TOP OF DROP INLET (SEE DETAIL 5, DWG. S-2)
  - RELOCATE CATHODIC TEST POINT (BY SWG)
  - REMOVE MANHOLE FRAME/COVER, GRADE ADJUSTMENT, AND CONE FROM ABANDONED SANITARY SEWER MANHOLE (DCSWCS SECTION 3.18.2, METHOD B NOT ALLOWED)
  - PROTECT-IN-PLACE
- NOTES**
- SEE COM-DRAWINGS FOR ITS AND TVM ADJUSTMENTS/RELOCATIONS



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

10-13-21 11:48:53 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_TIA\_U\_Sheets.dwg

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

**CAUTION: HIGH PRESSURE GAS!!!**  
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**SOUTHWEST GAS VALVE NOTE**  
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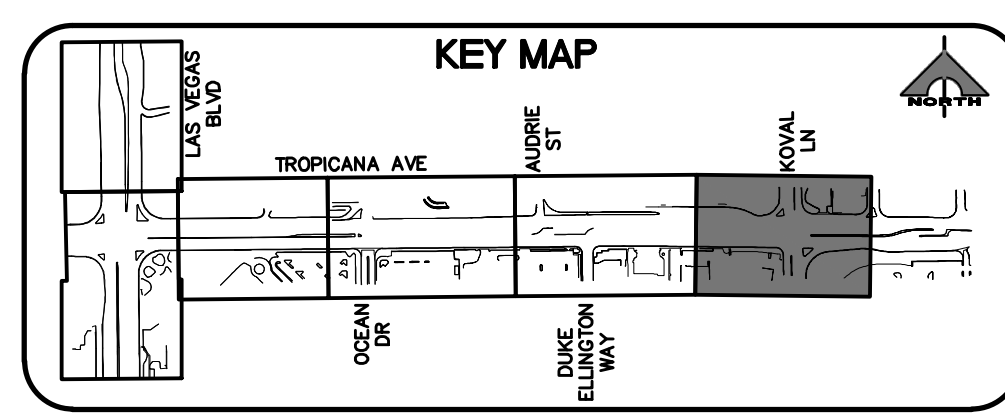
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21983**

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



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

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**UTILITY PLAN**

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

**WILLIE L. FELKINS**  
Exp. 6/30/2023  
CIVIL  
19632 NV-PE-001

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

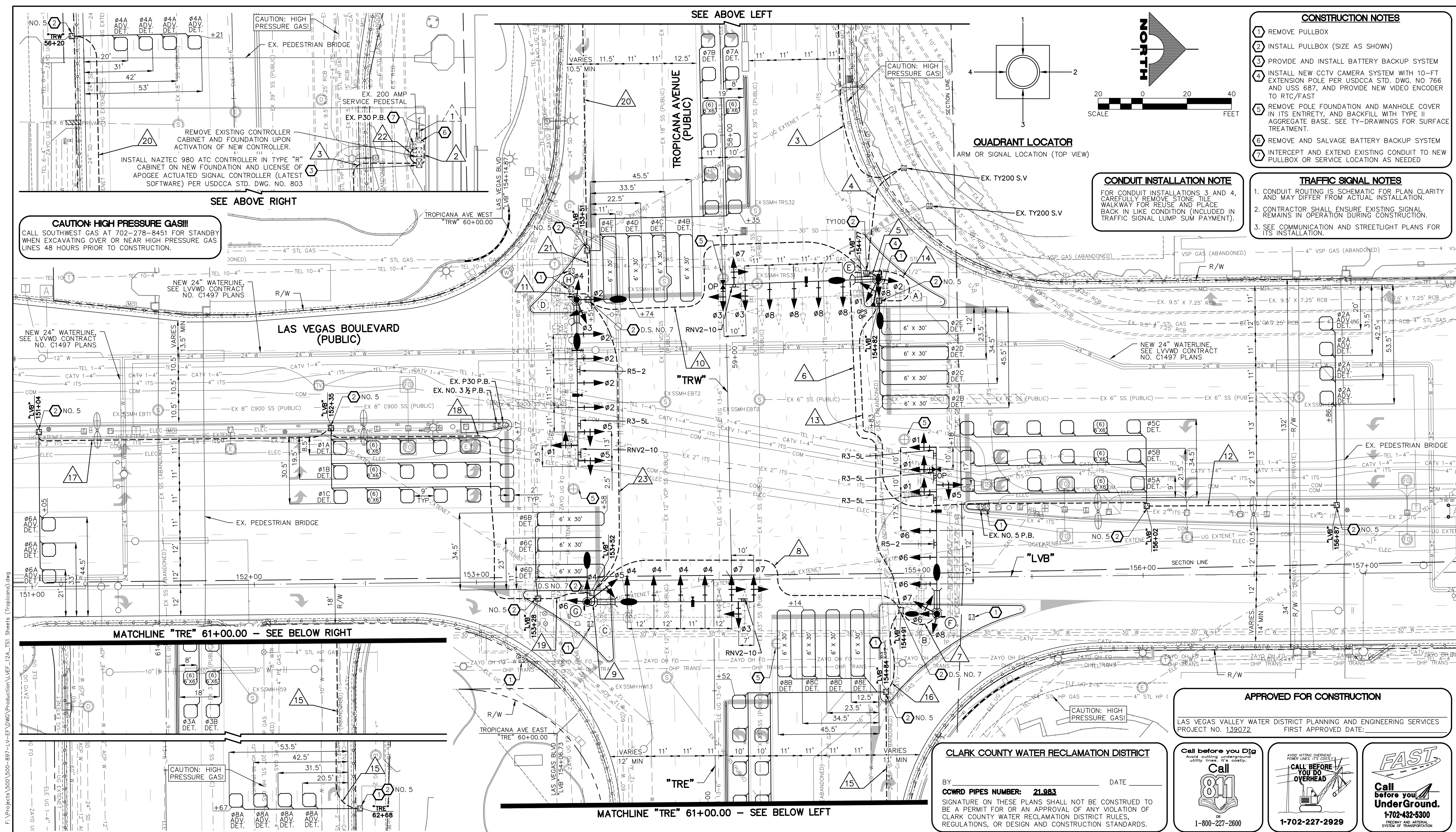
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO. **U-14**  
SHT. 103 OF 169  
L-2304

BID NO.: 603976-21





- CONSTRUCTION NOTES**
- 1 REMOVE PULLBOX
  - 2 INSTALL PULLBOX (SIZE AS SHOWN)
  - 3 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM
  - 4 INSTALL NEW CCTV CAMERA SYSTEM WITH 10-FT EXTENSION POLE PER USDOCA STD. DWG. NO 766 AND USS 687, AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST
  - 5 REMOVE POLE FOUNDATION AND MANHOLE COVER IN ITS ENTIRETY, AND BACKFILL WITH TYPE II AGGREGATE BASE. SEE TY-DRAWINGS FOR SURFACE TREATMENT.
  - 6 REMOVE AND SALVAGE BATTERY BACKUP SYSTEM
  - 7 INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX OR SERVICE LOCATION AS NEEDED

**CONDUIT INSTALLATION NOTE**  
 FOR CONDUIT INSTALLATIONS 3 AND 4, CAREFULLY REMOVE STONE TILE WALKWAY FOR REUSE AND PLACE BACK IN LIKE CONDITION (INCLUDED IN TRAFFIC SIGNAL LUMP SUM PAYMENT).

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

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

**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072  
 FIRST APPROVED DATE:

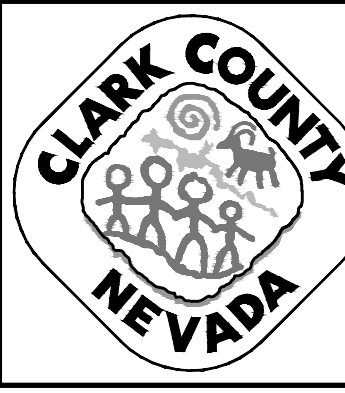
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 COWRD PIPES NUMBER: 21.983  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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

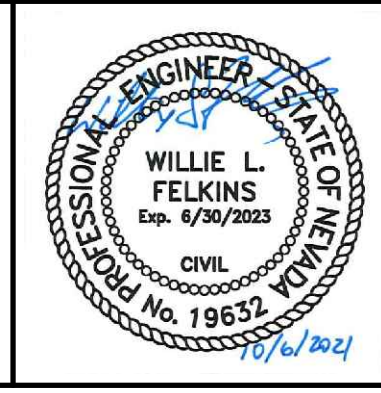
CALL BEFORE YOU DO OVERHEAD  
 AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
 1-702-227-2929

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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

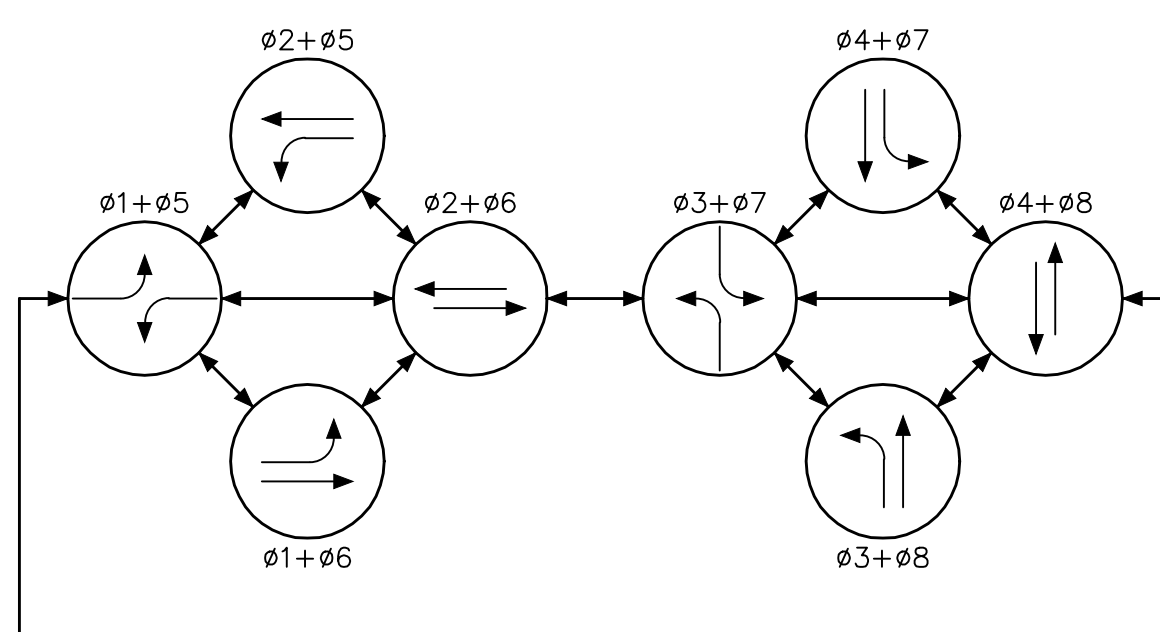
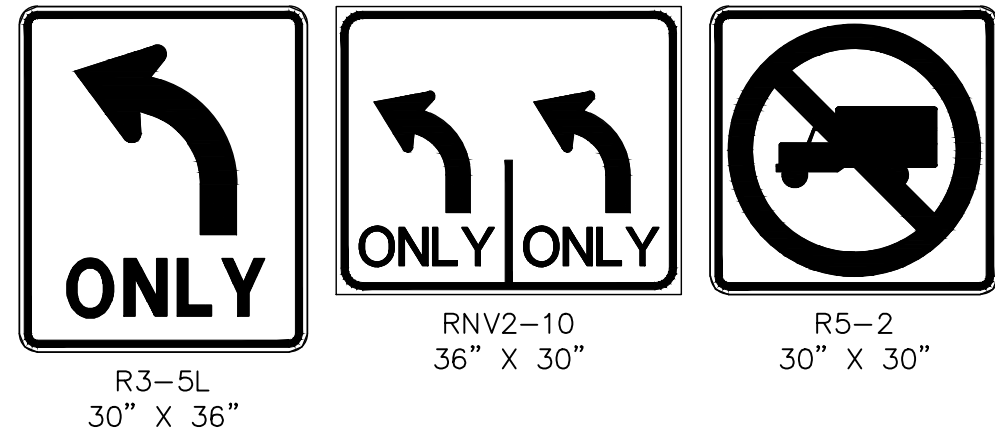


PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	TS-1
VERT: NONE	SHT. 104 OF 169
FIELD BOOK	L-2304



STREET NAME SIGN SCHEDULE		
POLE TYPE	SIGN LEGEND	
(E) DOUBLE FACE 12C 5C		
(F) DOUBLE FACE 12C 5C		
(G) DOUBLE FACE 12C 5C		
(H) DOUBLE FACE 12C 5C		



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

POLE SCHEDULE															
POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL QUAD.	ARM LENGTH	LUM. ARM QUAD. LENGTH	TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.	TYPE (PHASE)		
(A)	EXISTING	XX-B(E)	4(E)	65'(E)	3(E) 4(E)	15'(E) 15'(E)	(E)	(E)	-	-	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE STREET NAME SIGN, OPTICOM, CCTV CAMERA SYSTEM, GPS PREEMPTION SYSTEM, AND VIDEO DETECTION CAMERA AND APPURTENANCES. RELOCATE METRO DOME CAMERA AND APPURTENANCES TO NEW POLE E.
(B)	EXISTING	XX-B(E)	1(E)	65'(E)	1(E) 4(E)	15'(E) 15'(E)	(E)	(E)	-	-	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE F. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE STREET NAME SIGN, OPTICOM, DSRC UNIT, AND VIDEO DETECTION CAMERA AND APPURTENANCES.
(C)	EXISTING	XX-B(E)	2(E)	65'(E)	1(E) 2(E)	15'(E) 15'(E)	(E)	(E)	-	-	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE G. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE STREET NAME SIGN, AND VIDEO DETECTION CAMERAS AND APPURTENANCES. RELOCATE METRO DOME CAMERA AND APPURTENANCES TO NEW POLE G.
(D)	EXISTING	XX-B(E)	3(E)	70'(E)	2(E) 3(E)	15'(E) 15'(E)	(E)	(E)	-	-	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE H. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE STREET NAME SIGN, AND VIDEO DETECTION CAMERAS AND APPURTENANCES.
(E)	"LVB" 154+82.3 134.6' LT	XX-B	4	70'	3 4	15' 15'	M-2(7) B-2T/B-1T	MAST ARM 2	-	-	-	-	1	R(08) B(01)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. MODIFY PROPOSED B-2T ASSEMBLY TO INSTALL THIRD SIGNAL HEAD (B-1T) ON SAME ASSEMBLY. #1, #3, AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #3 AND #8 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW GPS PREEMPTION SYSTEM. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FT EXTENSION POLE WITH MATCHING FINISH PER USDOCA STD. DWG. 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE A. MOUNT RNV2-10 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(F)	"LVB" 155+07.0 16.4' RT	XX-B	1	75'	1 4	15' 15'	M-2(7) B-2T/B-1T	MAST ARM 3	-	-	-	-	2	R(06) B(07)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. MODIFY PROPOSED B-2T ASSEMBLY TO INSTALL THIRD SIGNAL HEAD (B-1T) ON SAME ASSEMBLY. #1, #5, AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1 AND #6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. MOUNT R3-5L(3) AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(G)	"LVB" 153+49.7 9.4' RT	XX-B	2	75'	1 2	15' 15'	M-2(7) B-2T/B-1T	MAST ARM 4	-	-	-	-	3	R(04) B(05)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. MODIFY PROPOSED B-2T ASSEMBLY TO INSTALL THIRD SIGNAL HEAD (B-1T) ON SAME ASSEMBLY. #3, #5, AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #4 AND #7 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE C. MOUNT RNV2-10 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(H)	"LVB" 153+46.3 126.6' LT	XX-B	3	75'	2 3	15' 15'	M-2(7) B-2T/B-1T	MAST ARM 1	-	-	-	-	4	R(02) B(03)	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. MODIFY PROPOSED B-2T ASSEMBLY TO INSTALL THIRD SIGNAL HEAD (B-1T) ON SAME ASSEMBLY. #1, #3, AND #5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #2 AND #5 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. MOUNT R3-5L(3) AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.

ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDOCA STD. DWG. NOS. 840 AND 841)  
ALL POLES, MAST ARMS, TENONS, EXTENSION POLES, AND LUMINAIRES SHALL BE PAINTED FIRE GREEN (RAL 6009) METALLIC  
ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9335 S. JONES BLVD.  
ALL XX, XX-A, AND XX-B POLES SHALL INCLUDE TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA PER DETAIL A ON DRAWING NO. TS-19  
(E) = EXISTING  
B = BLUE  
R = RED

WIRE & CABLE		FROM	TO	VIA CONDUIT																							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
EXISTING		NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)																								
4-#4 AWG. THW-2 OR XHHW-2		SERVICE PEDESTAL(E)	CONTROLLER																								
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE		CONTROLLER	POLE E																								
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3-#10 AWG. THW-2 OR XHHW-2		SERVICE PEDESTAL(E)	POLE E LUMINAIRES																								
3-#10 AWG. THW-2 OR XHHW-2		SERVICE PEDESTAL(E)	POLE F LUMINAIRES																								
3-#10 AWG. THW-2 OR XHHW-2		SERVICE PEDESTAL(E)	POLE G LUMINAIRES																								
3-#10 AWG. THW-2 OR XHHW-2		SERVICE PEDESTAL(E)	POLE H LUMINAIRES																								
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)		CONTROLLER	DET #2A																								
3-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #5A, #5B, #5C																								
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #2B, #2C, #2D, #2E																								
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)		CONTROLLER	DET #8A																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #3A, #3B																								
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #8B, #8C, #8D, #8E																								
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)		CONTROLLER	DET #6A																								
3-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #1A, #1B, #1C																								
3-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #6B, #6C, #6D																								
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)		CONTROLLER	DET #4A																								
2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #7A, #7B																								
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)		CONTROLLER	DET #4B, #4C, #4D, #4E																								
EXISTING		CONTROLLER	P30 P.B.(E)																								
CONDUIT SIZE				(E)	1-3"	6-3"	6-3"	1-3"	4-3"	4-3"	1-3"	2-3"	2-3"	4-3"	4-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	
(E) EXISTING					2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	2-2"	

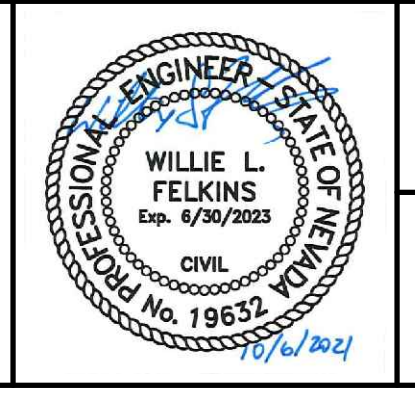
1. A NO. 8 GROUNDING WIRE SHALL BE RUN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.  
2. VIDEO DETECTION CABLES FOR FUTURE USE SHALL RUN FROM THE CONTROLLER CABINET TO SIGNAL POLE BASES WITHOUT VIDEO DETECTION CAMERAS. PROVIDE TWELVE FOOT OF SLACK IN CABINET AND ADEQUATE SLACK IN POLE BASE TO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

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REV. NO.	DATE	DESCRIPTION	APPROVED



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

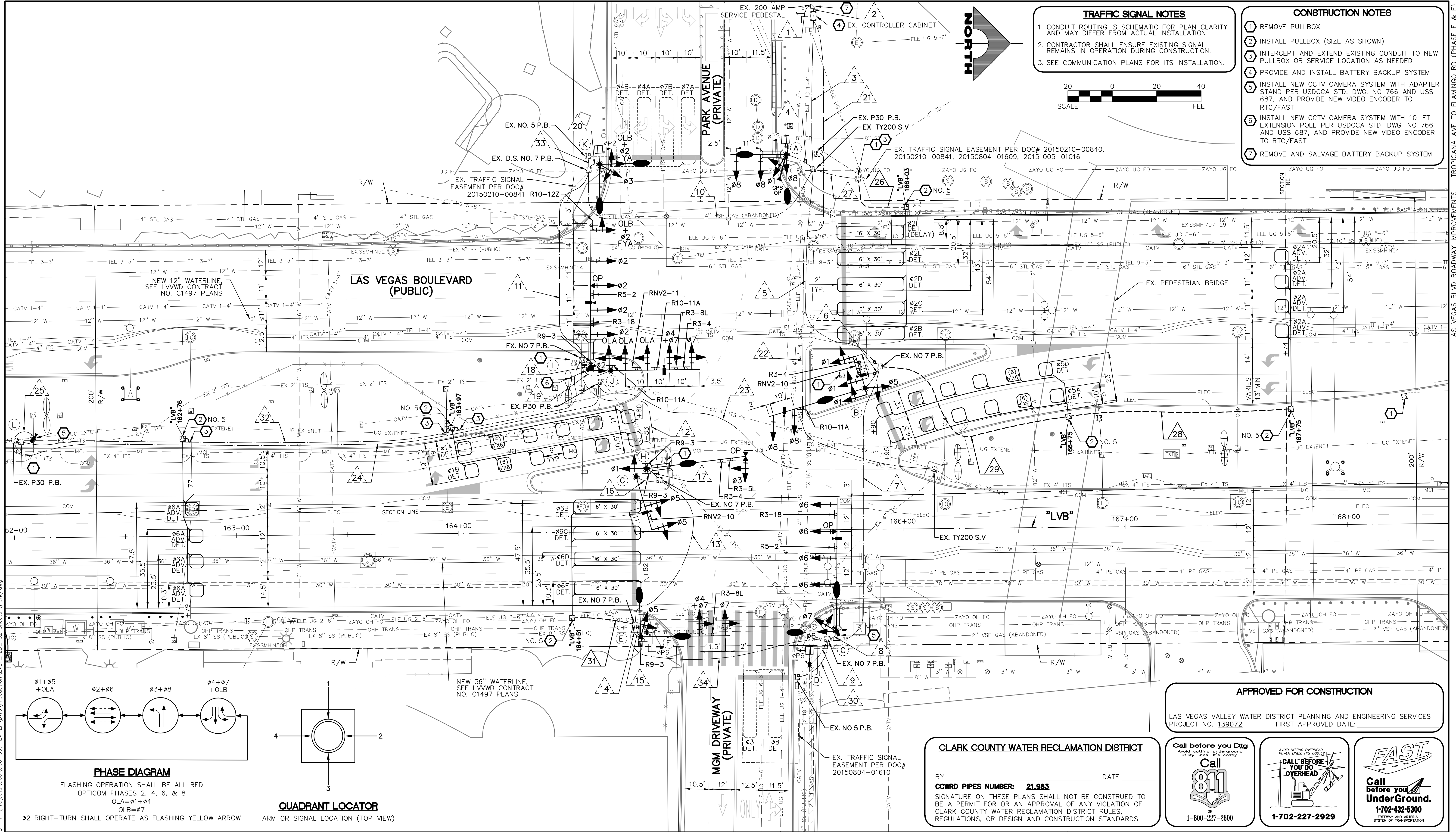


PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: JRT  
APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	TS-2
VERT: NONE	SHT. 105 OF 169
FIELD BOOK	L-2304

BID NO.: 608978-21



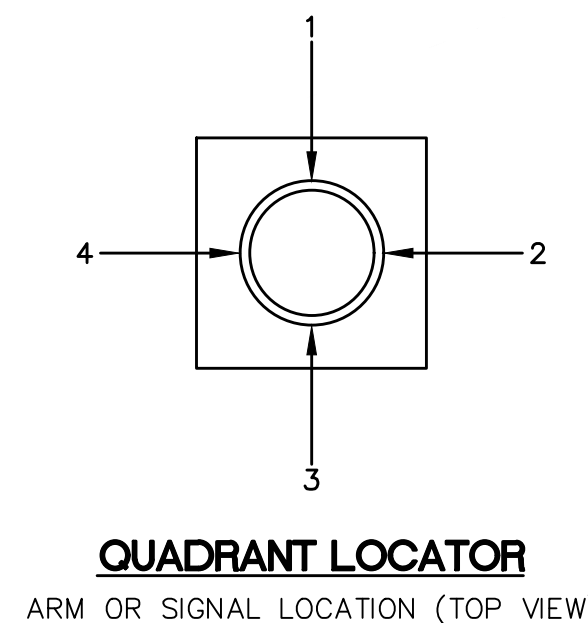
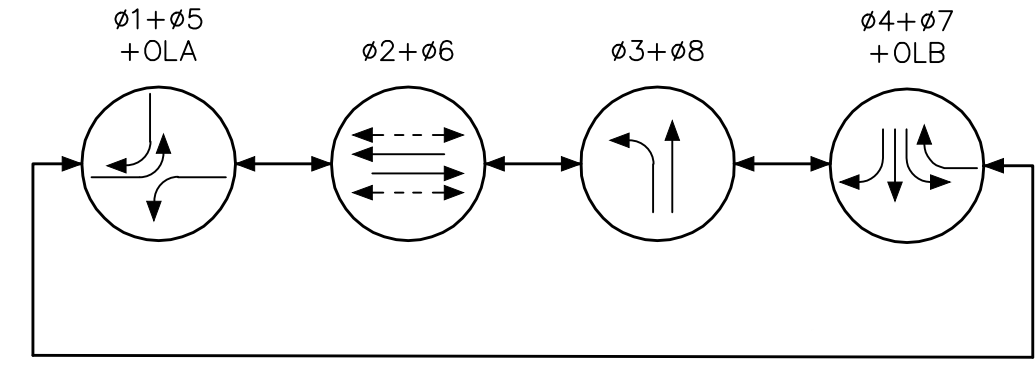
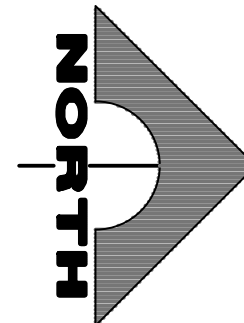
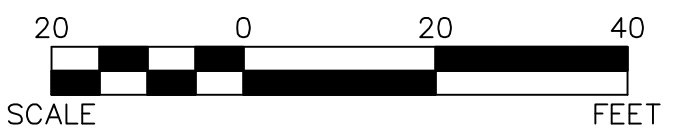


**TRAFFIC SIGNAL NOTES**

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

**CONSTRUCTION NOTES**

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



**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CCWRD PIPES NUMBER: **21883**

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

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

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

Call **811**  
OR  
1-800-227-2600

CALL BEFORE YOU DIG OVERHEAD  
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

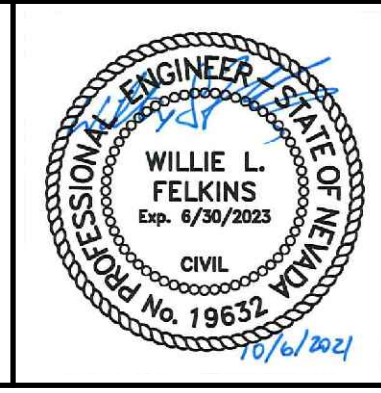
**1-702-227-2929**

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

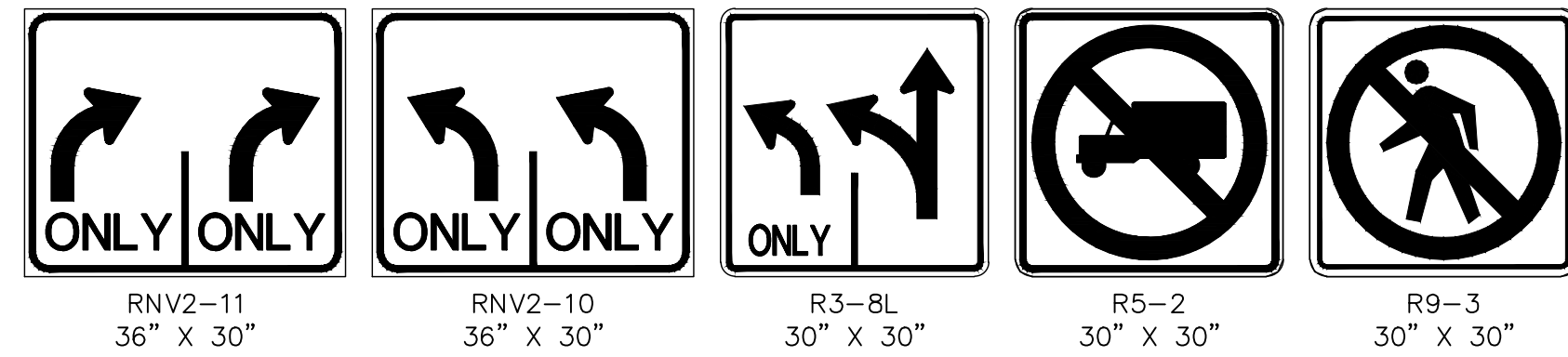
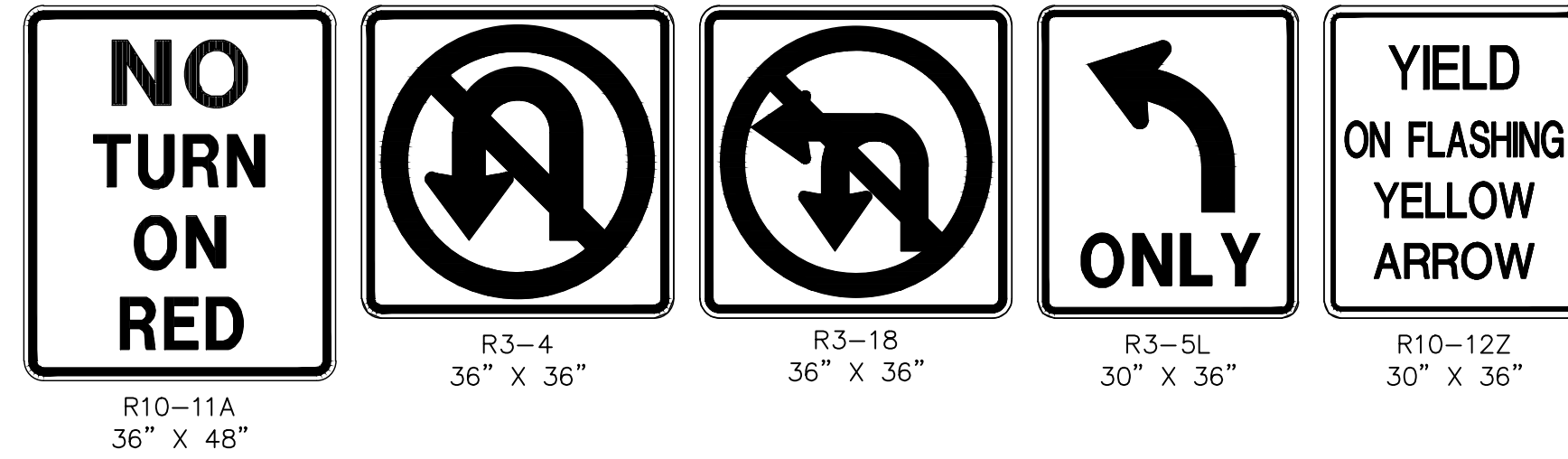
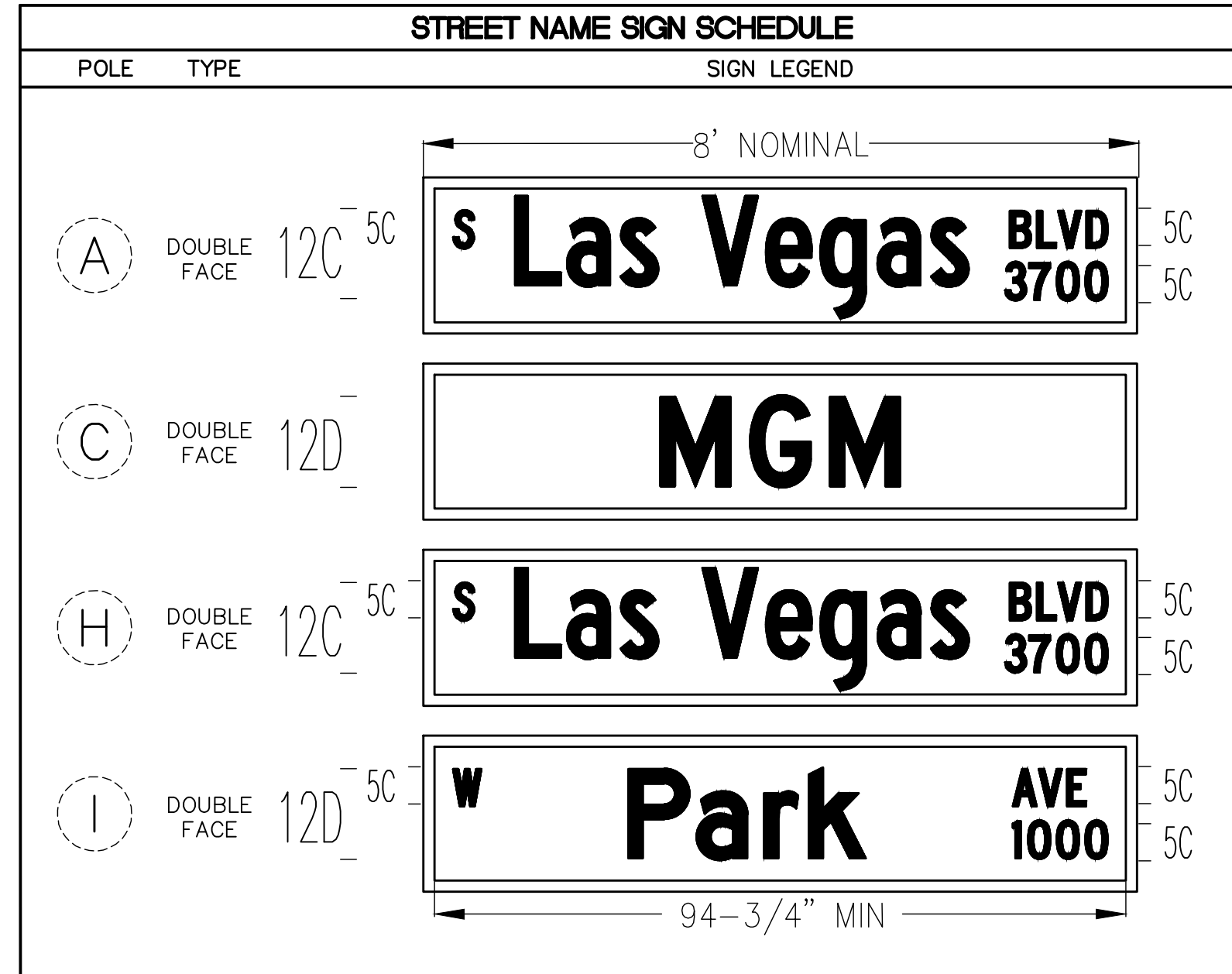
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>TS-3</b>
VERT: NONE	SHT. 106 OF 169
FIELD BOOK	L-2304

10-13-21 11:50:00 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_12B\_T22\_Sheets (Per) .dgn  
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)





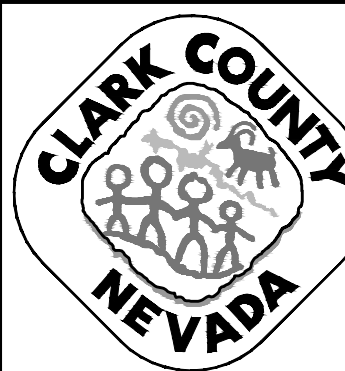
**POLE SCHEDULE**

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

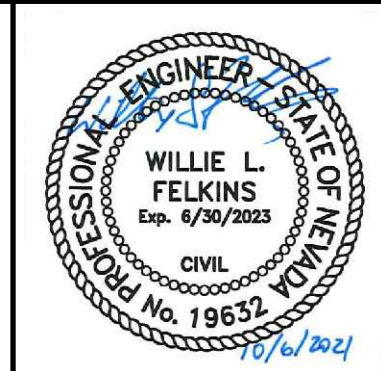
ALL SIGNAL HEADS SHALL HAVE RETROREFLECTIVE SHEETING BORDERS (USDOCA STD. DWG. NOS. 840 AND 841)  
 ALL POLES, MAST ARMS, TENONS, EXTENSION POLES, AND LUMINAIRES SHALL BE PAINTED FIR GREEN (RAL 6009) METALLIC  
 ALL EXISTING POLES TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO 9935 S. JONES BLVD. 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

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REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

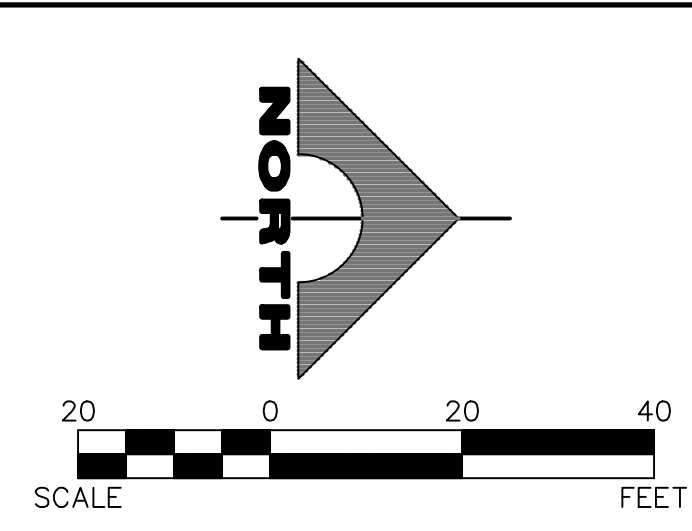
SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 107 OF 169
		L-2304

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



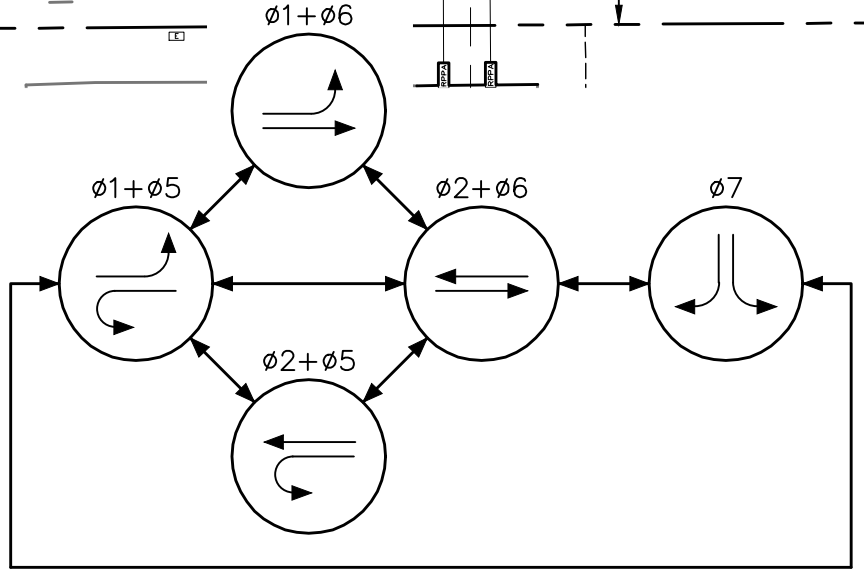
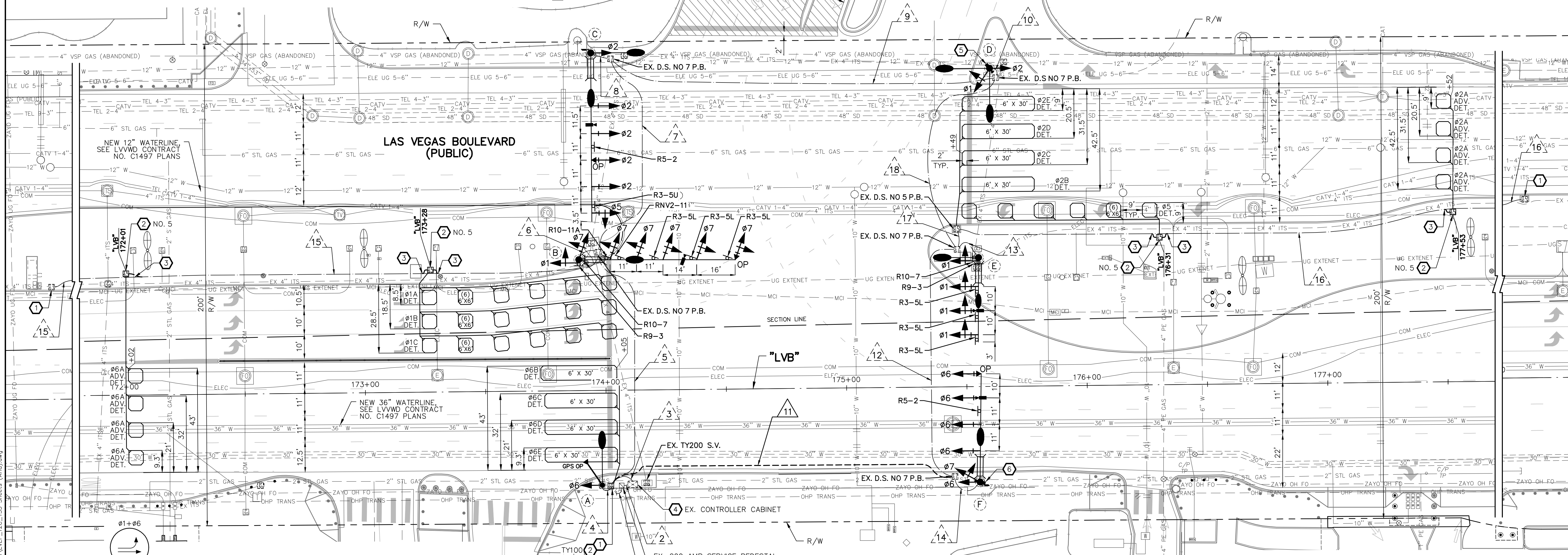




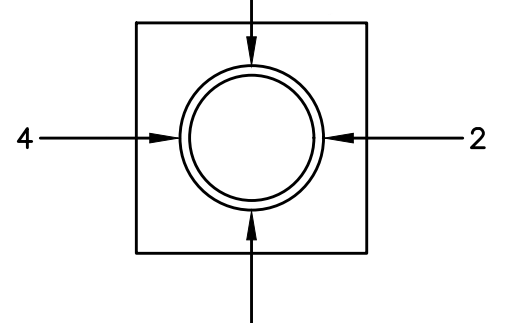


- TRAFFIC SIGNAL NOTES**
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
  2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
  3. SEE COMMUNICATION PLANS FOR ITS INSTALLATION.
- LEGEND**
- [Hatched Box] MINIMUM LIMITS OF DETECTION ZONE

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



**PHASE DIAGRAM**  
FLASHING OPERATION SHALL BE ALL RED OPTICOM PHASES 2, 6, & 7



**QUADRANT LOCATOR**  
ARM OR SIGNAL LOCATION (TOP VIEW)

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE:

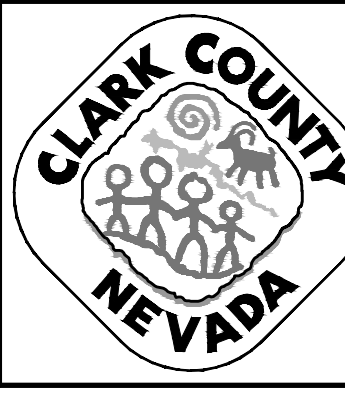
**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CWMRD PIPES NUMBER: **21883**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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

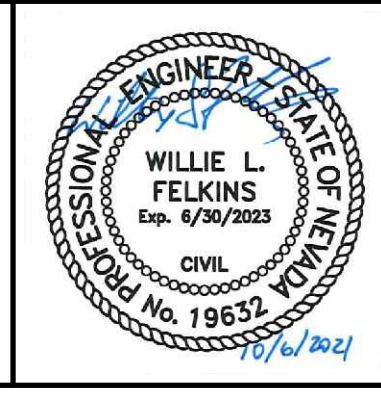
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
1-702-227-2929

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
DESIGNED BY: DSH CHECKED BY: JRT  
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ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
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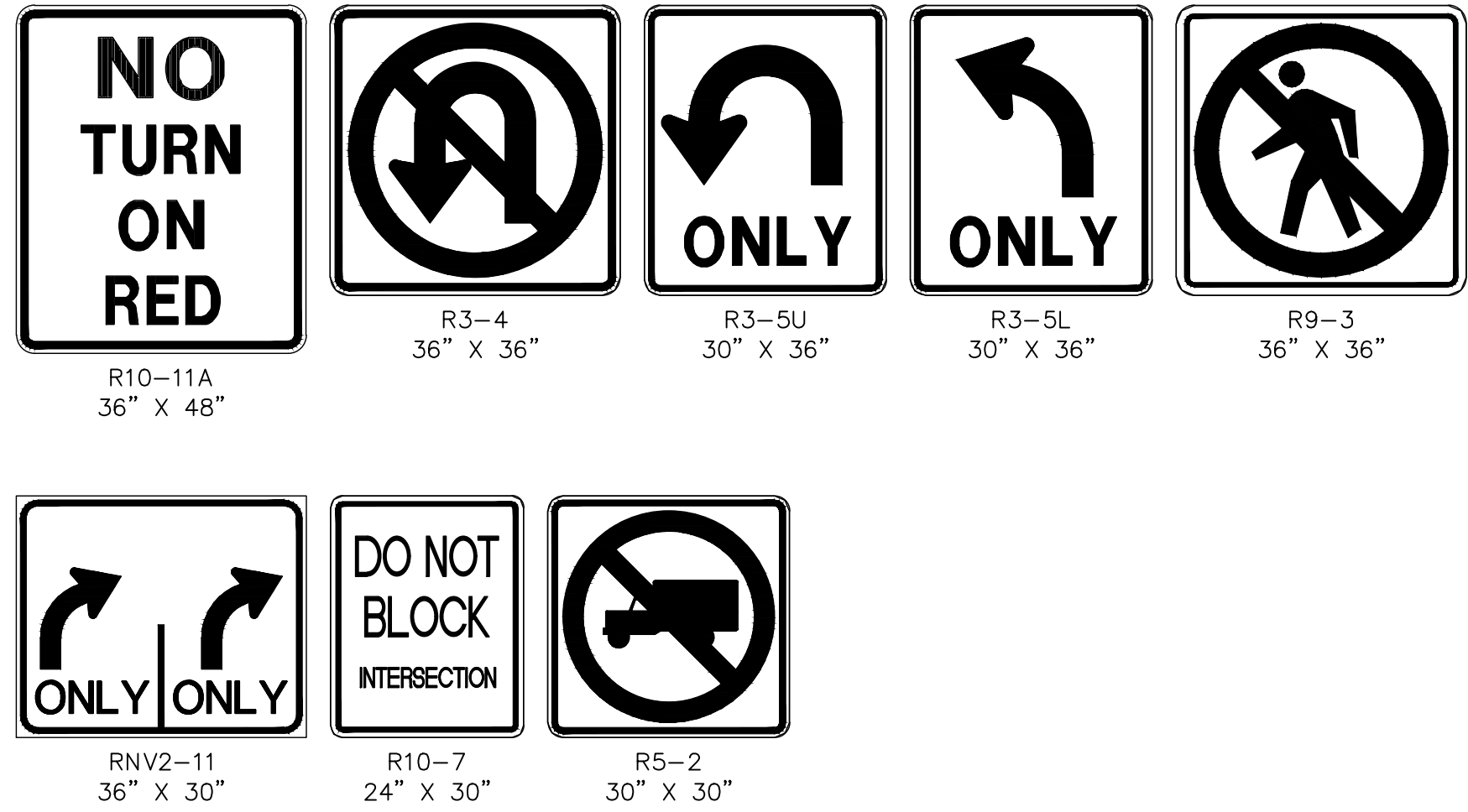
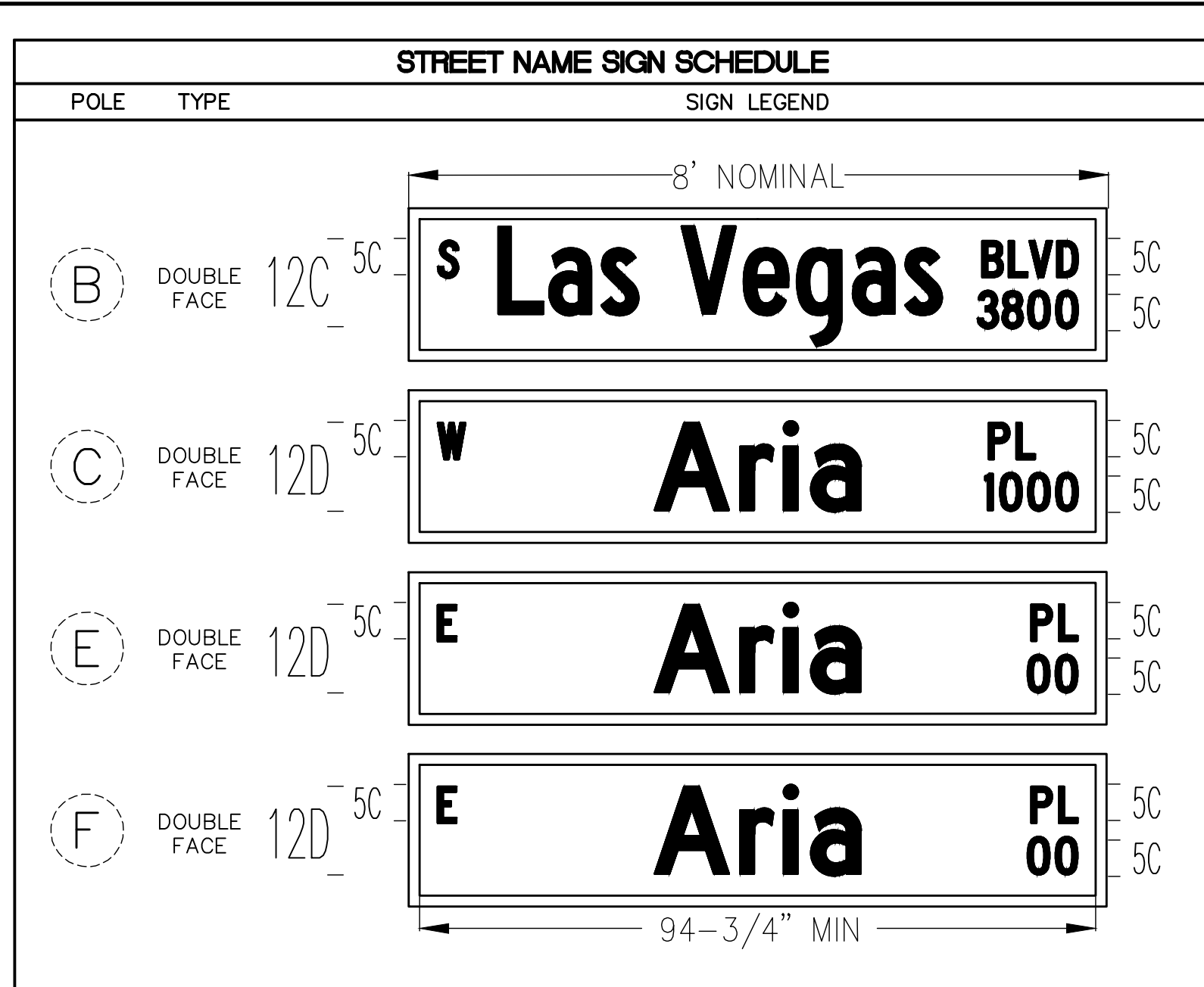
SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
**TS-6**  
SHT. 109 OF 169  
L-2304

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





### POLE SCHEDULE

POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS
		TYPE	SIGNAL ARM QUAD.	LUM. ARM QUAD.	LENGTH	TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.	TYPE (PHASE)	
(A)	EXISTING	XX-A	2	-	1	15'	B-1T	4	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE GPS PREEMPTION SYSTEM AND DSRC UNIT. INSTALL NEW POLE ON EXISTING FOUNDATION. INSTALL NEW GPS PREEMPTION SYSTEM. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT.
(B)	EXISTING	XX-B	2	65'	2	15'	M-2(5) B-2T	MAST ARM 4	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, OPTICOM, AND VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW PRESENCE VIDEO DETECTION FOR #7 PER MANUFACTURER'S RECOMMENDATIONS. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE B. MOUNT R3-SL(3), RNV2-11, AND R10-11A ON MAST ARM. MOUNT R10-7 AND R9-3 ON POLE SHAFT. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(C)	EXISTING	XX-B	3	70'	2	15'	M-2(5) B-1T	MAST ARM 1	-	-	-	4	R(#2)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN AND OPTICOM. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAY SHALL HAVE ALL U-TURN INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #2 AND #5 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT R3-SU ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
(D)	EXISTING	XX-B	4	-	3	15'	B-2T	2	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FOOT EXTENSION POLE WITH MATCHING FINISH PER USDOCA STD. DWG. 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685.
(E)	EXISTING	XX-B	3	35'	3	15'	M-2(3) B-3T	MAST ARM 1	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE E. MOUNT R3-SL(3) ON MAST ARM. MOUNT R10-7 AND R9-3 ON POLE SHAFT.
(F)	EXISTING	XX-B	1	45'	1	15'	M-2(4) B-2T	MAST ARM 3	-	-	-	2	R(#6) B(#7)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, OPTICOM, AND CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #7 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDOCA 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER PROVIDED TO RTC/FAST PER USS 685.

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

### CONDUIT AND WIRE SCHEDULE

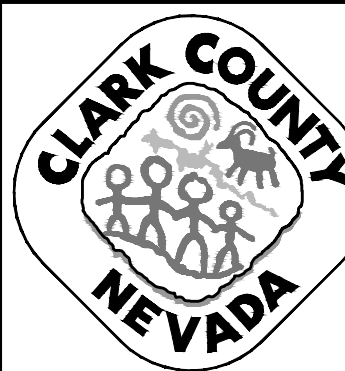
WIRE & CABLE	FROM	TO	VIA CONDUIT																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
EXISTING	NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)																		
EXISTING	SERVICE PEDESTAL(E)	CONTROLLER(E)																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE	CONTROLLER(E)	POLE A																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN B281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE B																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN B281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE C																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET)	CONTROLLER(E)	POLE D																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN B281 COAXIAL CABLE	CONTROLLER(E)	POLE E																		
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN B281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE F																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE A LUMINAIRE																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE B LUMINAIRE																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE C LUMINAIRES																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE D LUMINAIRES																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE E LUMINAIRES																		
3-#10 AWG. THW-2 OR XHHW-2	SERVICE PEDESTAL(E)	POLE F LUMINAIRE																		
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET. #6B, #6C, #6D, #6E																		
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET. #6A																		
3-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET. #1A, #1B, #1C																		
1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET. #2A																		
1-#12 AWG. PRESENCE LOOP LEAD-IN CABLE (MSA 50-2)	CONTROLLER(E)	DET. #5																		
4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E)	DET. #2B, #2C, #2D, #2E																		
CONDUIT SIZE (E) EXISTING			1-3"	1-3"	3-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"	2-3"	1-3"

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

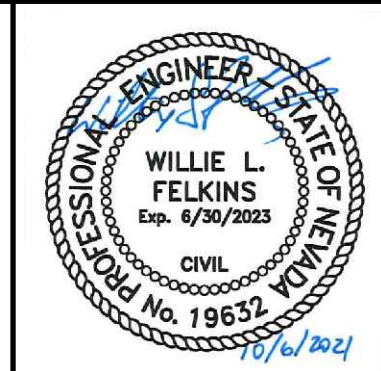
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

REV. NO.	DATE	DESCRIPTION	APPROVED



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



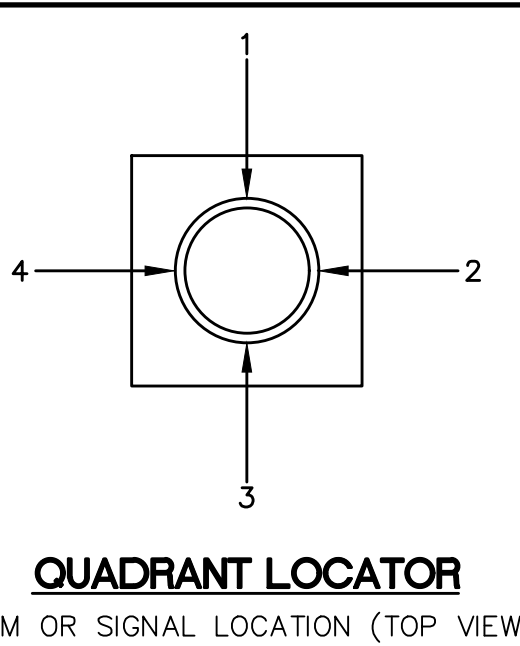
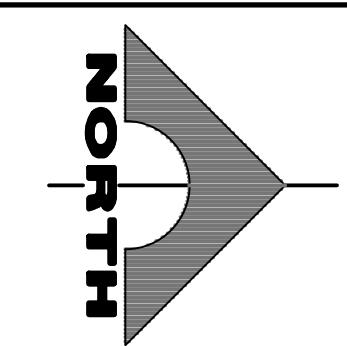
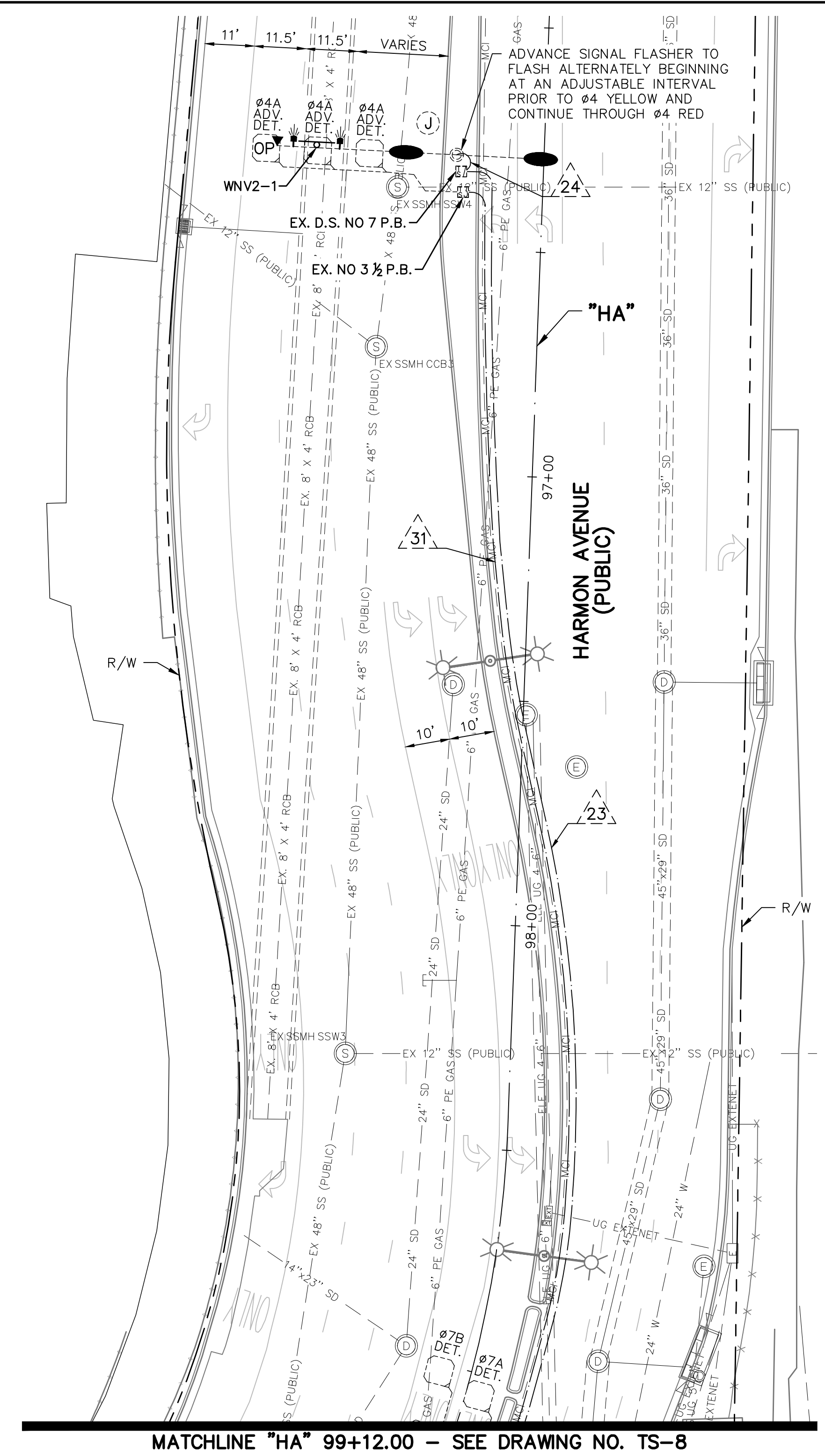
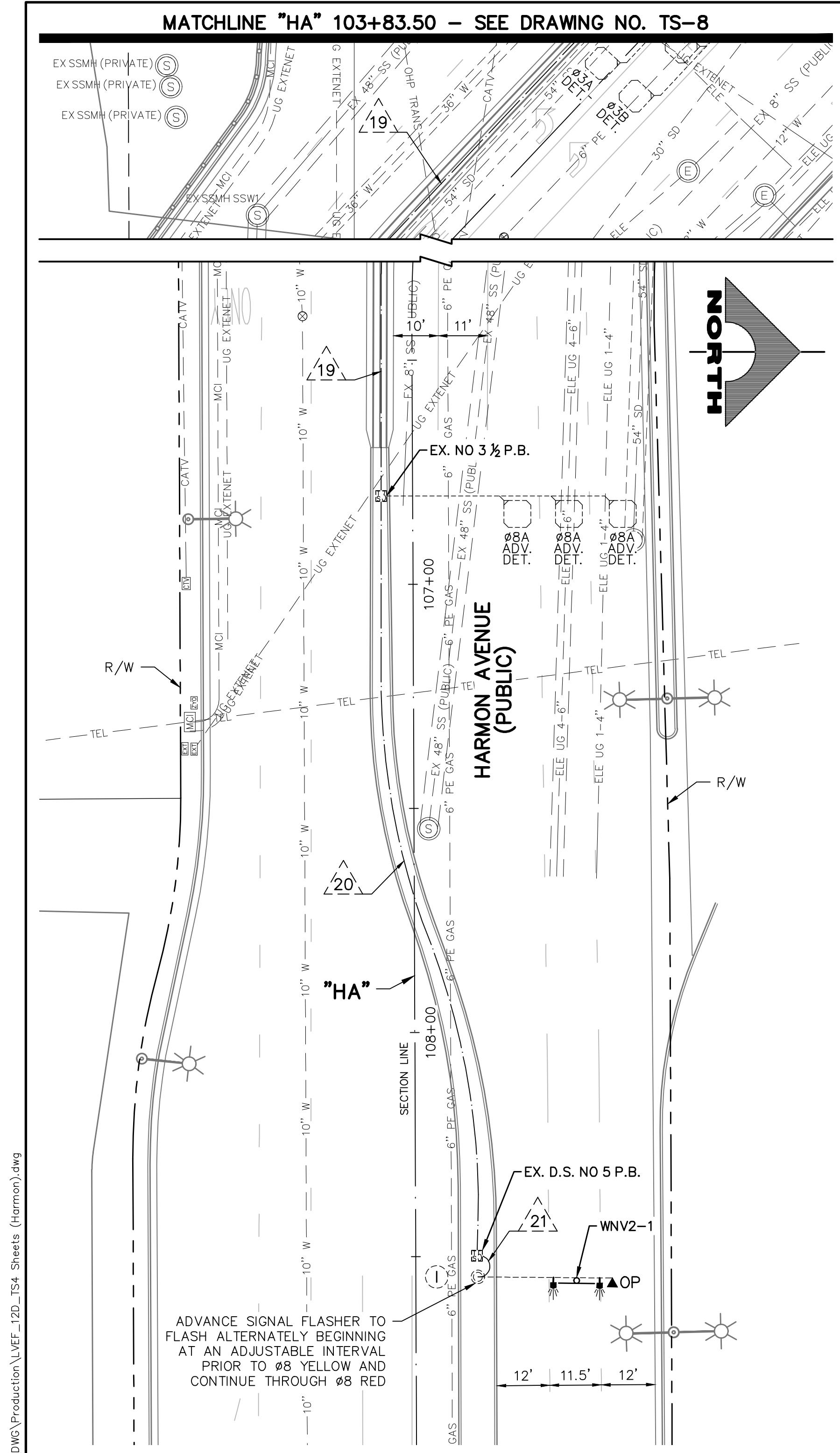
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: NONE  
 VERT: NONE  
 FIELD BOOK  
 DRAWING NO. **TS-7**  
 SHT. 110 OF 169  
 L-2304

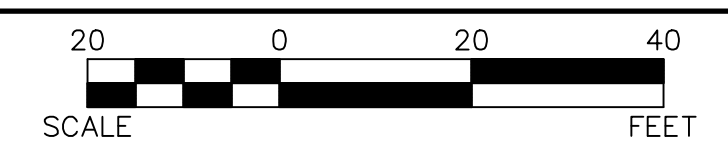




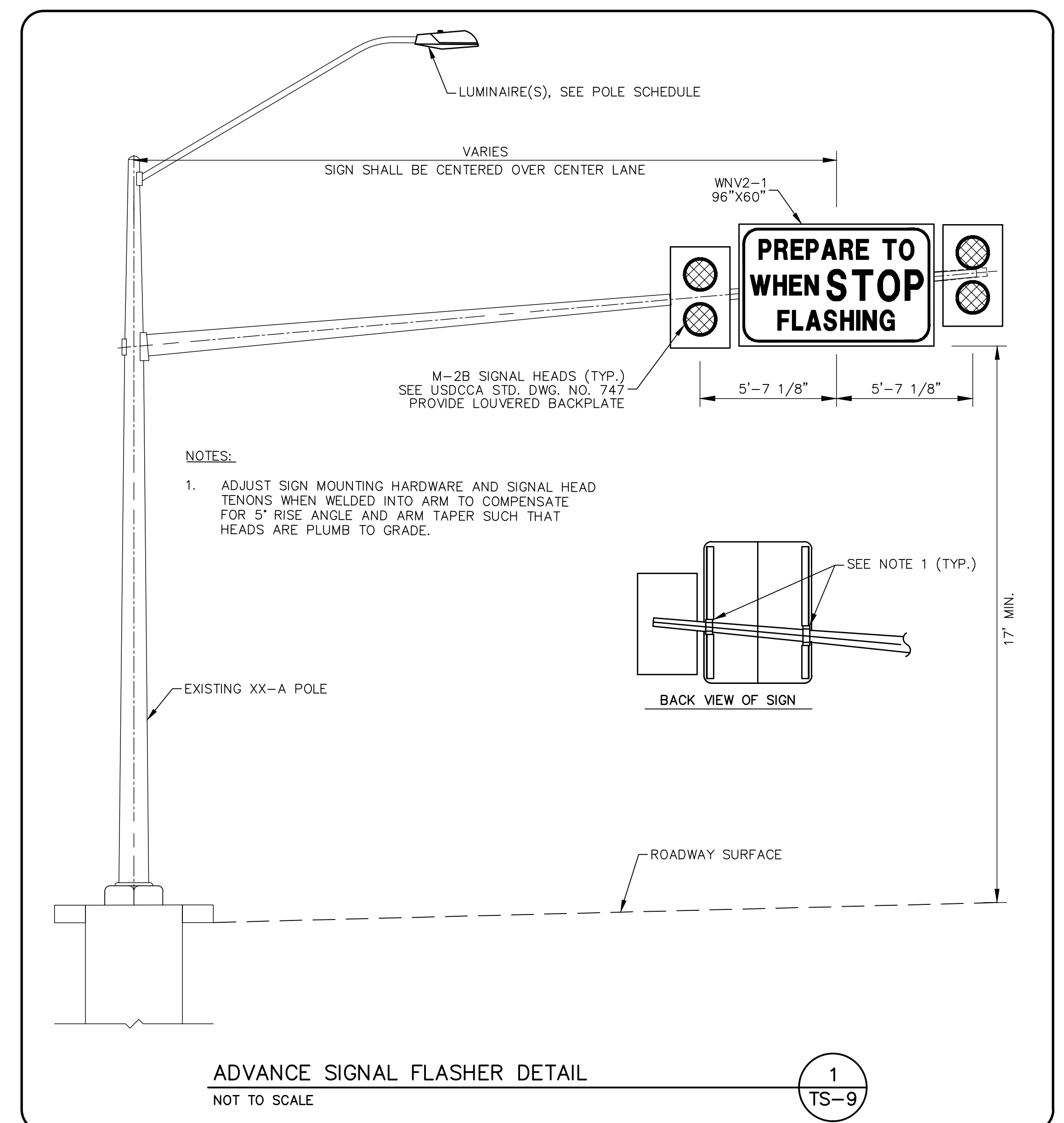




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  3. SEE COMMUNICATION PLANS FOR ITS INSTALLATION.



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



**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072

FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

CCWRD PIPES NUMBER: **21.883**

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

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**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

PREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

REV. NO.	DATE	DESCRIPTION	APPROVED

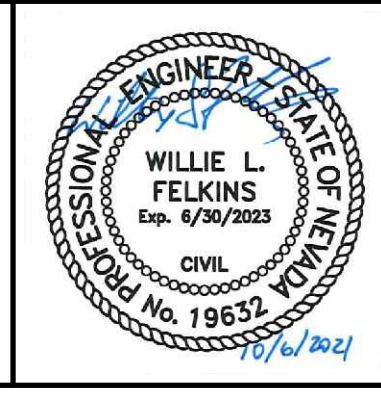


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**TRAFFIC SIGNAL MODIFICATION PLAN**

**LAS VEGAS BOULEVARD/HARMON AVENUE**

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



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

**GCV**  
ENGINEERS \ SURVEYORS

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LAS VEGAS, NV 89146  
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SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

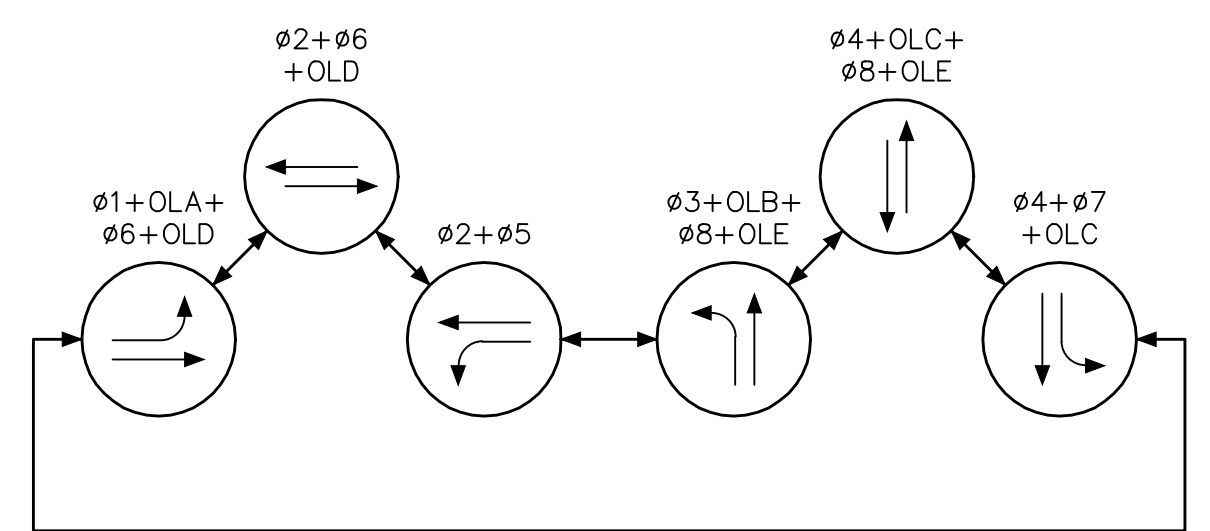
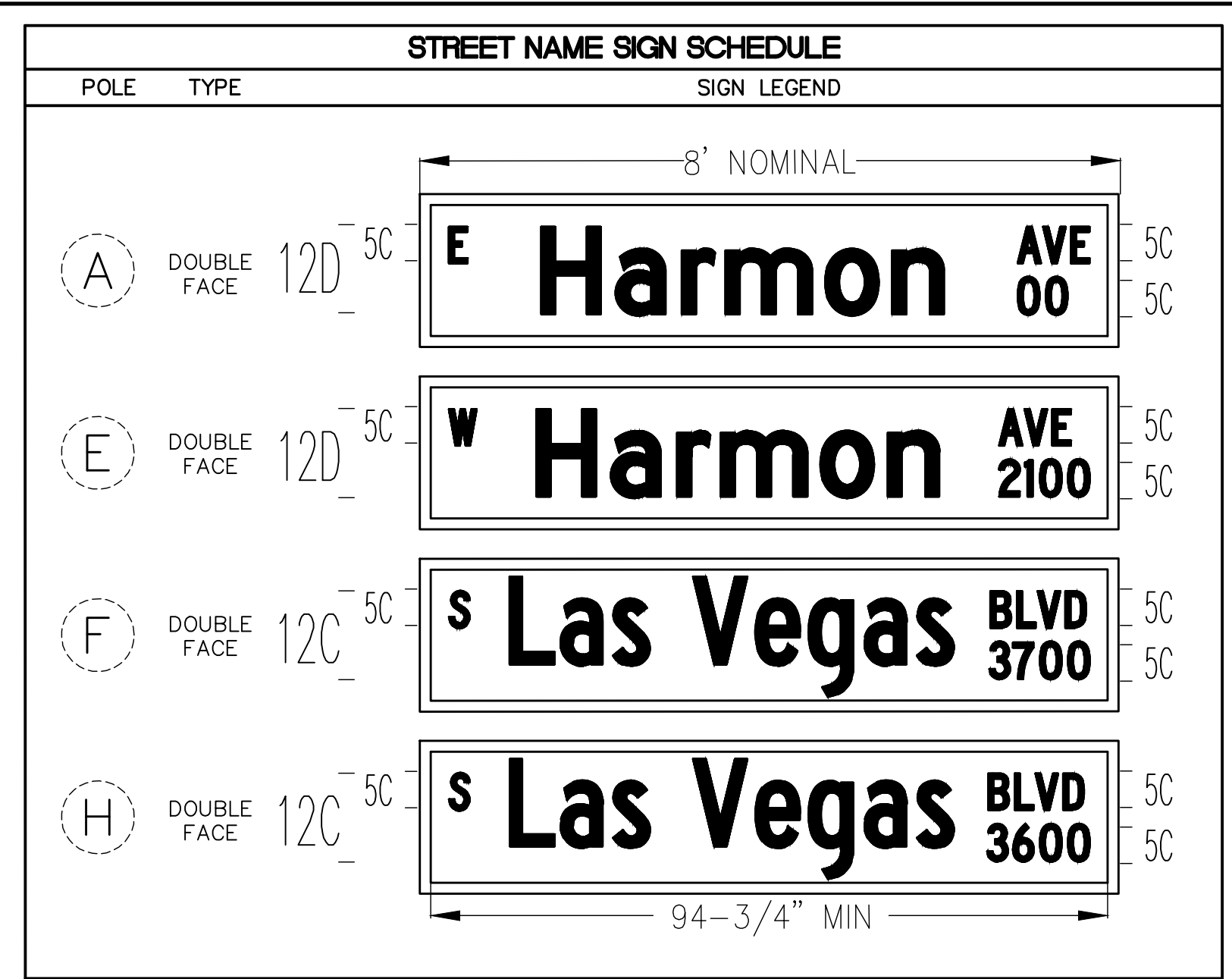
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**TS-9**  
SHT. 112 OF 169  
L-2304

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



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**PHASE DIAGRAM**

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

01A=01 WITH TIME DELAY  
02B=03 WITH TIME DELAY  
03C=04 WITH TIME DELAY  
04D=06 WITH TIME DELAY  
05E=08 WITH TIME DELAY

### POLE SCHEDULE

POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL ARM QUAD. LENGTH	LUM. ARM QUAD. LENGTH		TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.	TYPE (PHASE)		
A	EXISTING	XX-B(E)	1	80'	1	15' 15"	M-2(7) B-2T	MAST ARM 3	-	-	-	-	2(E)	B(07)(E) R(06)(E)	EXISTING POLE AND FINISH TO REMAIN. REMOVE AND SALVAGE EXISTING MAST ARM AND LUMINAIRE ARMS. SALVAGE STREET NAME SIGN AND GPS PREEMPTION SYSTEM. INSTALL NEW MAST ARM AND LUMINAIRE ARMS ON EXISTING POLE. REMOVE AND SALVAGE EXISTING B-2T SIGNAL HEAD AND INSTALL NEW B-2T SIGNAL HEAD ON POLE SHAFT. #1 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #1 AND #6 DISPLAYS SHALL INCORPORATE ANGLE VISORS TO RESTRICT VISIBILITY FROM THE WESTBOUND STOP BAR. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1 AND #6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW GPS PREEMPTION SYSTEM ON MAST ARM. MOUNT R3-5L(3), R10-7(2), AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
B	EXISTING	XX-B	4.5	75'	3.5	8" 4.5	M-2(5) B-2T	MAST ARM 2.5	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM AND DSRC UNIT. INSTALL NEW POLE ON EXISTING FOUNDATION. #3 AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT. MOUNT RNV2-10, R10-11A, AND R3-5R ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
C	EXISTING	XX-A	2.5	55'	1.5	15' 2.5	M-2(3) B-2T	MAST ARM 4.5	-	-	-	-	3.5	B(05) R(04)	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM AND RED LIGHT INDICATORS. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM.
D	EXISTING	XX-B	3	80'	2	15' 3	M-2(7) B-5T	MAST ARM 1	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 AND #5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE D. MOUNT R3-5L(3) ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
E	EXISTING	XX-B	3	80'	3	15'	M-2(6) B-5T	MAST ARM 1	-	-	-	-	4	B(03) R(02)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME, OPTICOM, AND RED LIGHT INDICATORS. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 AND #3 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #2 AND #5 DISPLAYS SHALL INCORPORATE ANGLE VISORS TO RESTRICT VISIBILITY FROM THE EASTBOUND STOP BAR. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #2 AND #5 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT RNV2-10 AND R5-2 ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
F	EXISTING	XX-B	2.5	85'	2.5	15'	M-2(5) B-2T	MAST ARM 4.5	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN AND OPTICOM. INSTALL NEW POLE ON EXISTING FOUNDATION. #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #4 AND #7 PER MANUFACTURER'S RECOMMENDATIONS. #4 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS FOR RIGHT-TURN LANE ONLY. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT R10-11A ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
G	EXISTING	XX-A	4	-	3	15'	B-5T	2	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. #1 DISPLAYS SHALL INCORPORATE ANGLE VISORS TO RESTRICT VISIBILITY FROM THE WESTBOUND STOP BAR. INSTALL CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDOCA 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685.
H	EXISTING	XX-B	4	85'	1	15' 4	M-2(6) B-2T	MAST ARM 2	-	-	-	-	1	B(01) R(08)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, CCTV CAMERA SYSTEM, AND RED LIGHT INDICATORS. INSTALL NEW POLE ON EXISTING FOUNDATION. #1, #3, AND #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #3 AND #8 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW CCTV CAMERA SYSTEM ON ADAPTER STAND WITH MATCHING FINISH PER USDOCA 766 AND USS 687 AND PROVIDE NEW VIDEO ENCODER TO RTC/FAST PER USS 685. RELOCATE METRO DOME CAMERAS AND APPURTENANCES FROM EXISTING POLE TO 10-FT EXTENSION POLE WITH MATCHING FINISH ON NEW POLE H. MOUNT RNV2-10(2) AND R10-11A ON MAST ARM. INSTALL VIBRATION MITIGATION DEVICE ON MAST ARM.
I	EXISTING (WB ADVANCE)	XX-A(E)	2(E)	30'(E)	-	-	M-2B(2)	MAST ARM	-	-	-	-	-	-	EXISTING POLE TO REMAIN. SALVAGE OPTICOM. SEE ADVANCE SIGNAL FLASHER DETAIL ON DWG. TS-9. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT WNV2-1 ON MAST ARM.
J	EXISTING (EB ADVANCE)	XX-A(E)	4(E)	40'(E)	2(E) 4(E)	15'(E) 15'(E)	M-2B(2)	MAST ARM	-	-	-	-	-	-	EXISTING POLE TO REMAIN. SALVAGE OPTICOM. SEE ADVANCE SIGNAL FLASHER DETAIL ON DWG. TS-9. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. REMOVE AND SALVAGE HPS LUMINAIRES AND INSTALL Z50W EQUIVALENT LED LUMINAIRES. MOUNT WNV2-1 ON MAST ARM.

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

REV. NO.	DATE	DESCRIPTION	APPROVED

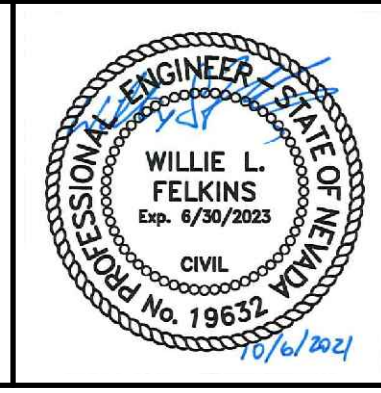


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**TRAFFIC SIGNAL SCHEDULES AND DETAILS**

**LAS VEGAS BOULEVARD/HARMON AVENUE**

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



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

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

SCALE  
 HORIZ: NONE  
 VERT: NONE  
 FIELD BOOK

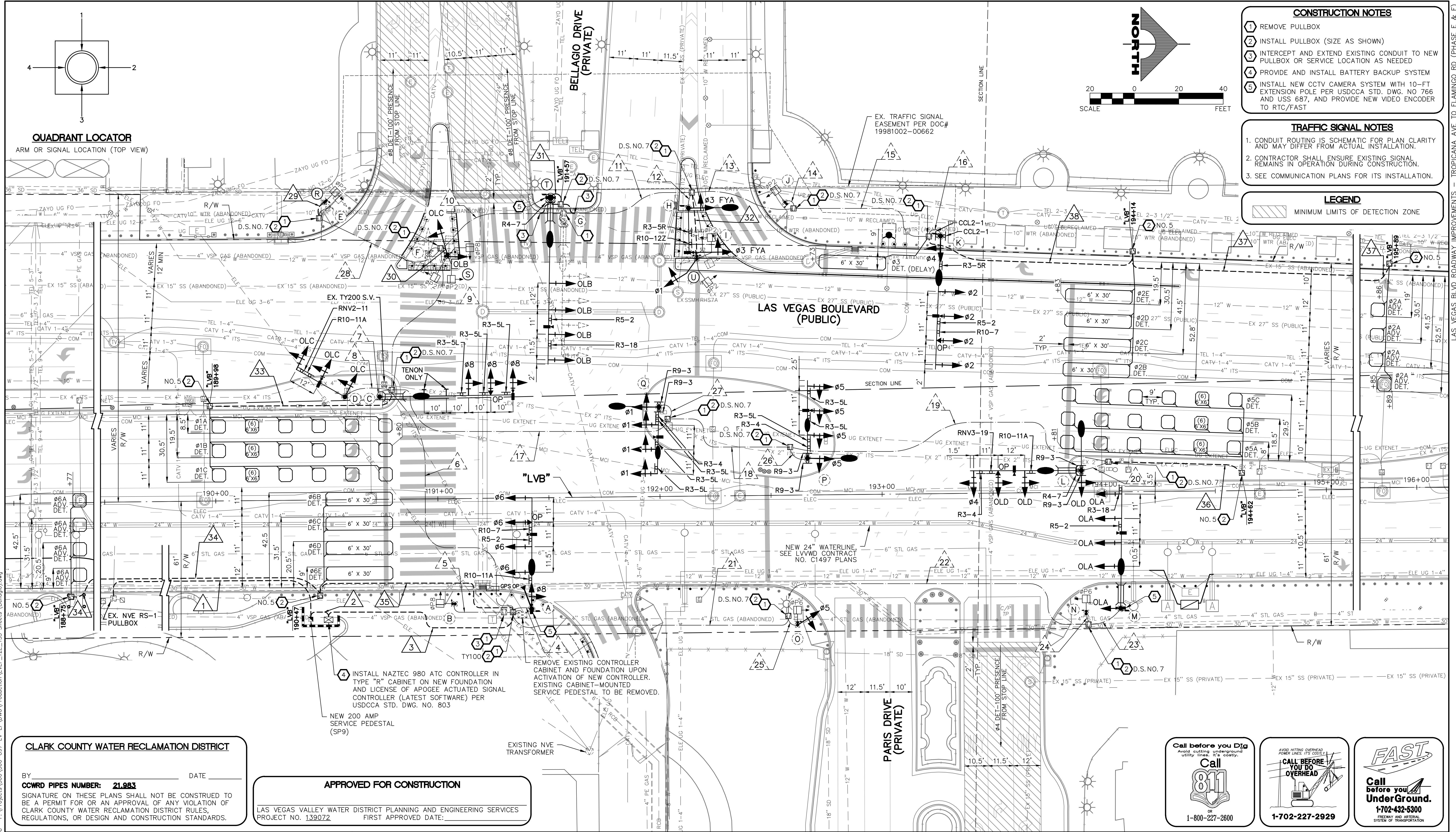
DRAWING NO.  
**TS-10**  
 SHT. 113 OF 169  
 L-2304

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

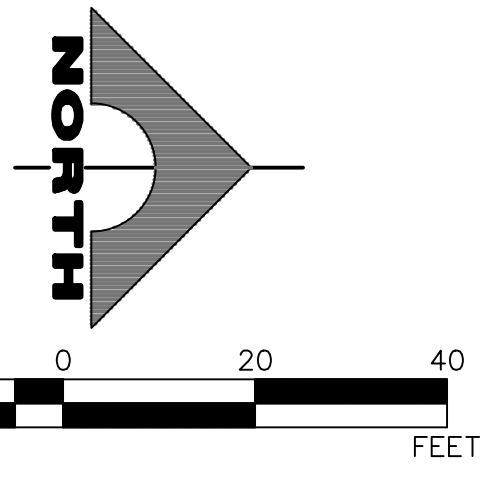








**QUADRANT LOCATOR**  
ARM OR SIGNAL LOCATION (TOP VIEW)



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

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

**LEGEND**  
MINIMUM LIMITS OF DETECTION ZONE

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_

CCWRD PIPES NUMBER: **21.983**

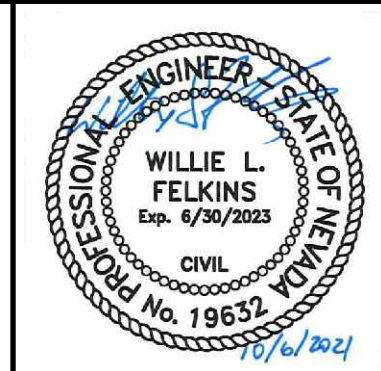
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_



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



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

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

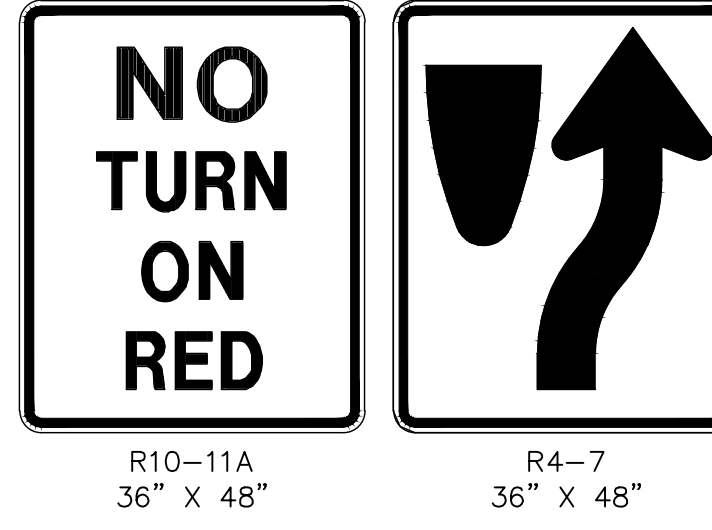
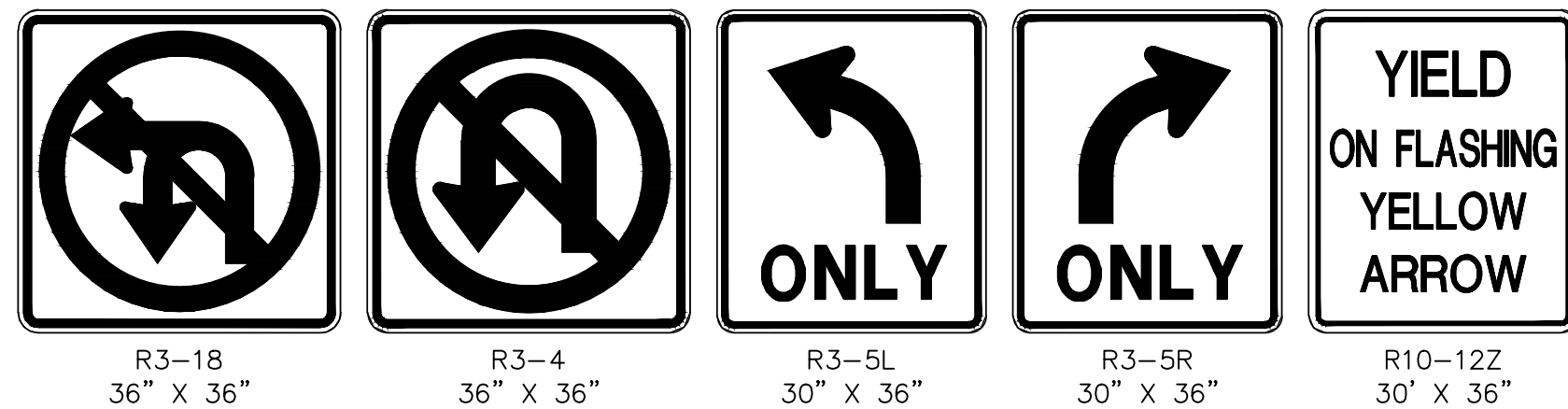
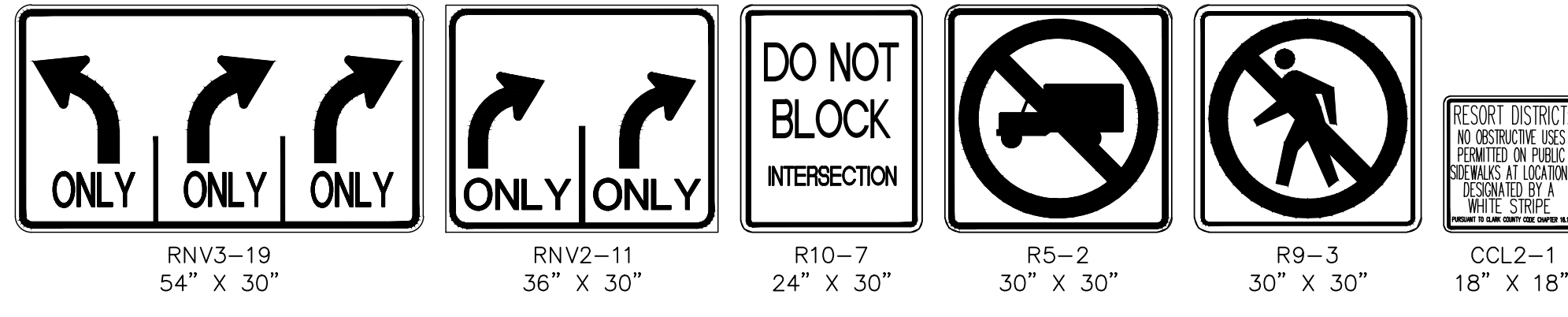
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**TS-12**  
SHT. 115 OF 169  
L-2304

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



POLE		TYPE		SIGN LEGEND	
(C)	DOUBLE FACE	12C	5C		
(L)	DOUBLE FACE	12C	5C		
(M)	DOUBLE FACE	12D	5C		
(T)	DOUBLE FACE	12D	5C		



POLE	LOCATION STATION (OFFSET)	POLE						SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS
		TYPE	SIGNAL ARM		LUM. ARM		TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.	TYPE (PHASE)		
			QUAD.	LENGTH	QUAD.	LENGTH										
(A)	EXISTING	XX-A	1	50'	1	15'	M-2(4) B-3T	MAST ARM 3	-	-	-	-	2	R(66) B(67)	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM, CCTV CAMERA SYSTEM, AND GPS PREEMPTION SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #8 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #6 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW GPS PREEMPTION SYSTEM. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FOOT EXTENSION POLE WITH MATCHING FINISH PER USDOCCA 766 AND USS 687 AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST PER USS 685. RELOCATE METRO DOME CAMERAS AND APPURTENANCES FROM EXISTING POLE TO NEW POLE A. MOUNT R5-2, R10-7, AND R10-11A ON MAST ARM.	
(B)	EXISTING	1-A	-	-	-	-	-	-	W-0T	3	4(64)	LT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION.	
(C)	EXISTING	XX-A	2	60'	2	15'	M-2(3)	MAST ARM	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN, DSRC UNIT, AND VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #8 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL TWO TENONS FOR FUTURE USE AT LOCATIONS SHOWN. INSTALL NEW PRESENCE VIDEO DETECTION FOR #8 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. INSTALL NEW V2X ROADSIDE UNIT (RSU) ON POLE SHAFT. MOUNT R3-5L(3) ON MAST ARM.	
(D)	EXISTING	XX-20'	4.5	25'	-	-	M-2(2) B-5T	MAST ARM 2.5	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #0LC DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR #0LC PER MANUFACTURER'S RECOMMENDATIONS. MOUNT RNV2-11 AND R10-11A ON MAST ARM.	
(E)	EXISTING	1-A(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF NEW POLE R. REMOVE FOUNDATION IN ITS ENTIRETY.	
(F)	EXISTING	1-A(E)	-	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF NEW POLE S.	
(G)	EXISTING	XX-A(E)	3(E)	60'(E)	(E)	(E)	(E)	(E)	-	-	-	-	(E)	(E)	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF NEW POLE T. REMOVE FOUNDATION TO 18 INCHES BELOW GRADE. SALVAGE STREET NAME SIGN AND CCTV CAMERA SYSTEM.	
(H)	EXISTING	XX	3	20'	2	15'	M-4 B1-4	MAST ARM 1	-	-	-	-	4	R(62)	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #3 DISPLAYS SHALL BE 4-SECTION FLASHING YELLOW ARROW. #3 DISPLAYS SHALL INCORPORATE DIRECTIONAL LOUVERS TO RESTRICT VISIBILITY FROM SOUTHBOUND STOP BAR AT "LVB" 193+85. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #3 PER MANUFACTURER'S RECOMMENDATIONS. RELOCATE METRO DOME CAMERAS AND APPURTENANCES FROM EXISTING POLE TO NEW POLE H. MOUNT R3-5R AND R10-12Z ON MAST ARM.	
(I)	EXISTING	1-A(E)	-	-	-	-	(E)	(E)	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF NEW POLE U. REMOVE FOUNDATION IN ITS ENTIRETY.	
(J)	EXISTING	1-A	-	-	-	-	-	-	W-0T	1	2(62)	LT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION.	
(K)	EXISTING	XX-A	3	60'	3	15'	M-2(4) B-5T	MAST ARM 1	-	-	-	-	4	R(62) B(64)	EXISTING POLE TO BE REMOVED. SALVAGE OPTICOM. INSTALL NEW POLE ON EXISTING FOUNDATION. #4 DISPLAY SHALL HAVE ALL ARROW INDICATIONS. #2 DISPLAYS SHALL INCORPORATE DIRECTIONAL LOUVERS TO RESTRICT VISIBILITY FROM THE SOUTHBOUND RIGHT-TURN LANE. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #2 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. MOUNT R10-7, R5-2, AND R3-5R ON MAST ARM. MOUNT CCL2-1(2) ON POLE SHAFT.	
(L)	EXISTING	XX-A	4	50'	1	15'	M-2(3) B-5T	MAST ARM 2	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #4 AND #0LD DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR #4 AND #0LD PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW OPTICOM (ONE-WAY) ON MAST ARM. RELOCATE METRO DOME CAMERAS AND APPURTENANCES FROM EXISTING POLE TO NEW POLE L. MOUNT R3-4, RNV3-19, AND R10-11A ON MAST ARM. MOUNT R9-3(2) AND R4-7 ON POLE SHAFT.	
(M)	EXISTING	XX-A	1	55'	1	15'	M-2(4) B-5T	MAST ARM 3	-	-	-	-	2	R(66)	EXISTING POLE TO BE REMOVED. SALVAGE STREET NAME SIGN AND CCTV CAMERA SYSTEM. INSTALL NEW POLE ON EXISTING FOUNDATION. #0LA DISPLAYS SHALL INCORPORATE DIRECTIONAL LOUVERS TO RESTRICT VISIBILITY FROM NORTHBOUND STOP BAR AT "LVB" 190+77. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #0LA PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FT EXTENSION POLE WITH MATCHING FINISH PER USDOCCA 766 AND USS 687 AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST PER USS 685. RELOCATE METRO DOME CAMERA AND APPURTENANCES FROM EXISTING POLE TO NEW POLE M. MOUNT R3-18 AND R5-2 ON MAST ARM.	
(N)	EXISTING	1-A	-	-	-	-	-	-	W-0T	3	1(66)	RT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION.	
(O)	EXISTING	1-A	-	-	-	-	A-8T	POST TOP	W-0T	4	1(66)	LT	-	-	EXISTING POLE TO BE REMOVED. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAY SHALL HAVE ALL ARROW INDICATIONS.	
(P)	EXISTING	XX	1	35'	1	15'	M-2(3) B-5T	MAST ARM 3	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #5 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #5 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT R3-5L(3) AND R3-4 ON MAST ARM. MOUNT R9-3(2) ON POLE SHAFT.	
(Q)	EXISTING	XX	3	30'	3	15'	M-2(3) B-5T	MAST ARM 1	-	-	-	-	-	-	EXISTING POLE TO BE REMOVED. SALVAGE VIDEO DETECTION CAMERA AND APPURTENANCES. INSTALL NEW POLE ON EXISTING FOUNDATION. #1 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #1 PER MANUFACTURER'S RECOMMENDATIONS. MOUNT R3-5L(3) AND R3-4 ON MAST ARM. MOUNT R9-3(2) ON POLE SHAFT.	
(R)	"LVB" 190+50.3 133.9' LT	1-A	-	-	-	-	-	-	W-0T	4	1(62)	LT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.	
(S)	"LVB" 191+05.6 109.0' LT	1-A	-	-	-	-	A-4T	POST TOP	W-3T W-0T	1 3	1(62) 4(68)	LT/RT RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #0LC DISPLAY SHALL HAVE ALL ARROW INDICATIONS.	
(T)	"LVB" 191+52.1 135.0' LT	XX-B	3	75'	3	15'	M-2(4)	MAST ARM	-	-	-	-	4	R(62)	NEW POLE. #0LB DISPLAYS SHALL HAVE RED BALL, YELLOW BALL, AND GREEN ARROW INDICATIONS. #0LB DISPLAYS SHALL INCORPORATE DIRECTIONAL LOUVERS TO RESTRICT VISIBILITY FROM SOUTHBOUND RIGHT-TURN LANE AND SOUTHBOUND STOP BAR AT "LVB" 193+85. INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #0LB PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW STREET NAME SIGN PER SIGN SCHEDULE. INSTALL NEW CCTV CAMERA SYSTEM ON 10-FOOT EXTENSION POLE WITH MATCHING FINISH PER USDOCCA 766 AND USS 687 AND REUSE VIDEO ENCODER PROVIDED TO RTC/FAST PER USS 685. MOUNT R3-18 AND R5-2 ON MAST ARM. MOUNT R4-7 ON POLE SHAFT.	
(U)	"LVB" 192+17.6 106.8' LT	1-A	-	-	-	-	A-9T	POST TOP	W-3T	3	1(62)	LT/RT	-	-	NEW POLE. CONSTRUCT SPECIAL FOUNDATION PER DETAIL 1, DRAWING NO. TS-14. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH MEDIAN SURFACE. #1 DISPLAY SHALL HAVE ALL ARROW INDICATIONS.	

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

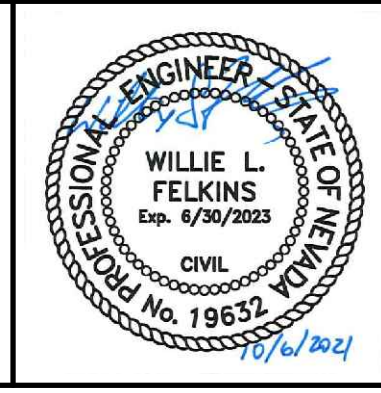
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

REV. NO.	DATE	DESCRIPTION	APPROVED



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



PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS SURVEYORS  
 1555 S. RAINBOW BLVD.  
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SCALE: HORIZ: NONE VERT: NONE FIELD BOOK: \_\_\_\_\_  
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 SHT. 116 OF 169  
 L-2304







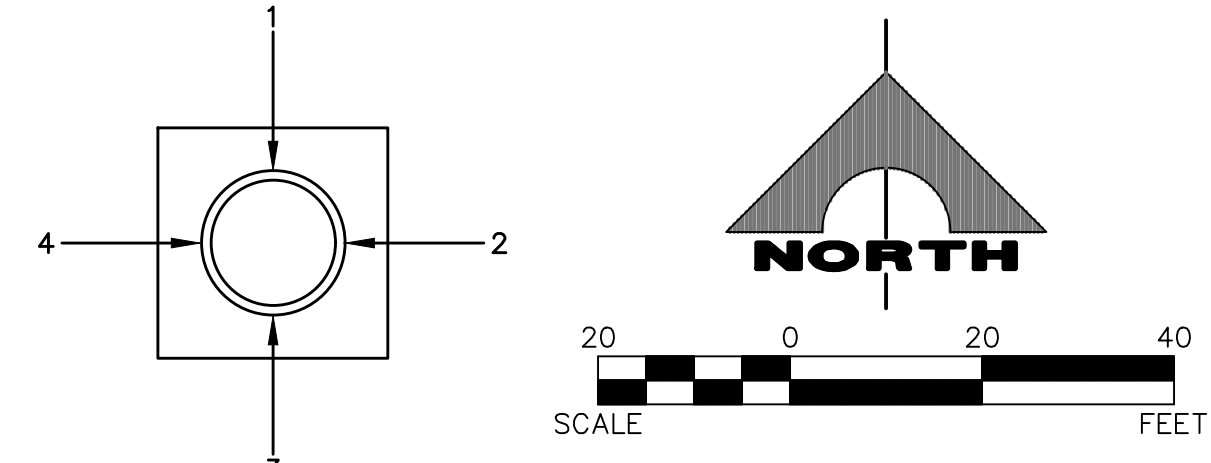
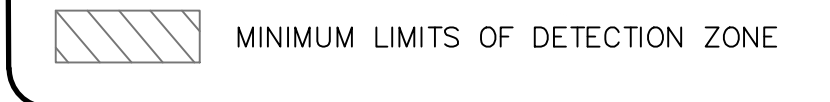
**TRAFFIC SIGNAL NOTES**

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

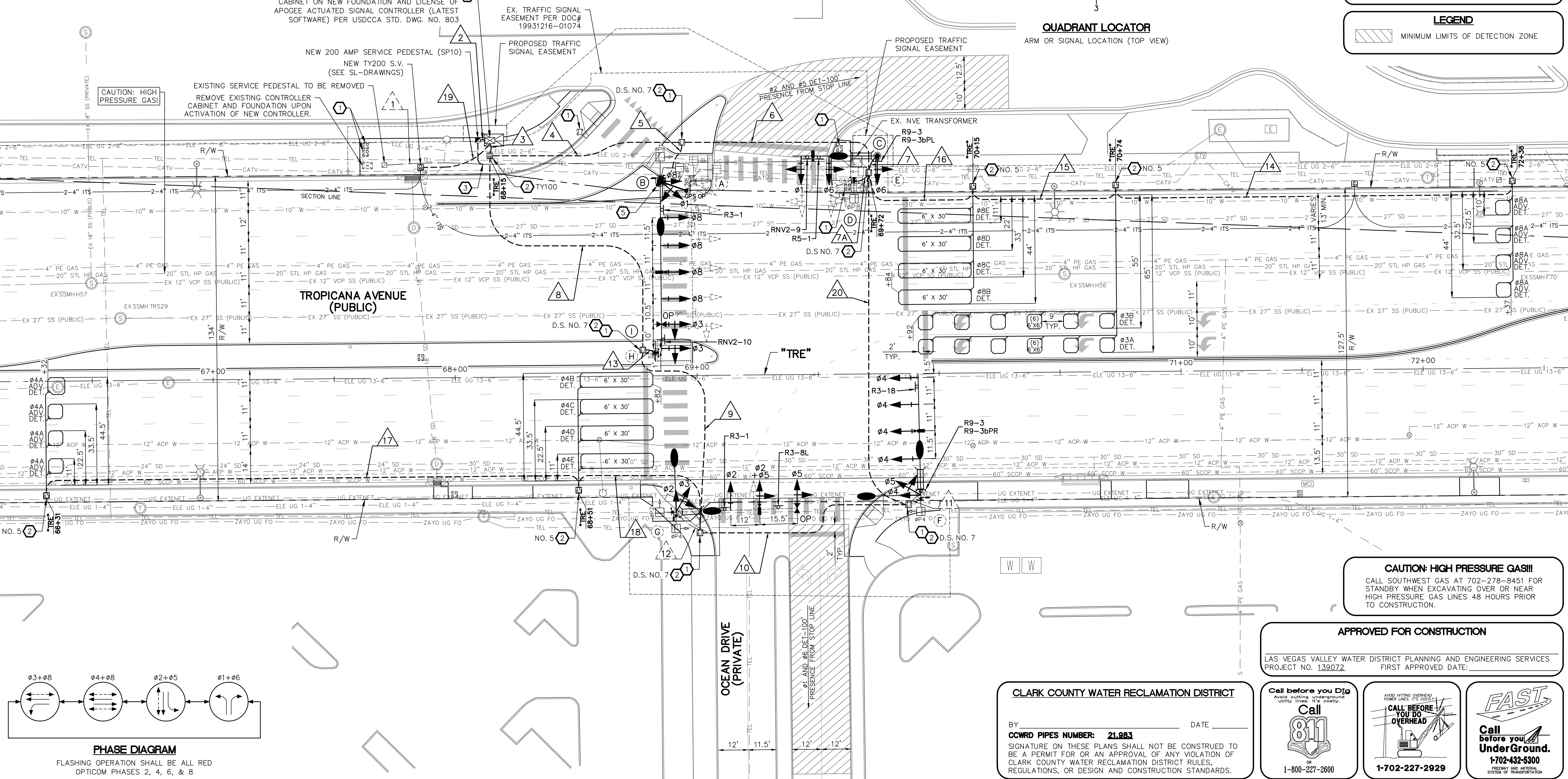
**CONSTRUCTION NOTES**

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

**LEGEND**



**QUADRANT LOCATOR**  
ARM OR SIGNAL LOCATION (TOP VIEW)



CAUTION: HIGH PRESSURE GAS!

EXISTING SERVICE PEDESTAL TO BE REMOVED  
REMOVE EXISTING CONTROLLER CABINET AND FOUNDATION UPON ACTIVATION OF NEW CONTROLLER.

NEW 200 AMP SERVICE PEDESTAL (SP10)  
NEW TY200 S.V. (SEE SL-DRAWINGS)

EX. TRAFFIC SIGNAL EASEMENT PER DOC# 19931216-01074

PROPOSED TRAFFIC SIGNAL EASEMENT

PROPOSED TRAFFIC SIGNAL EASEMENT

EX. NVE TRANSFORMER  
R9-3 R9-3bPL

**TROPICANA AVENUE (PUBLIC)**

**OCEAN DRIVE (PRIVATE)**

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

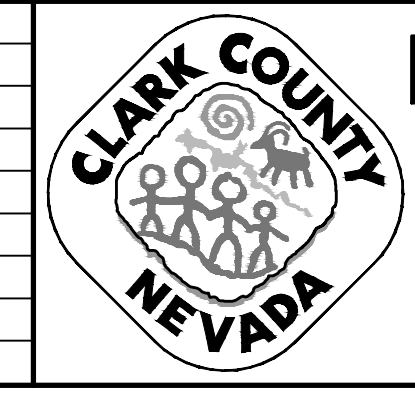
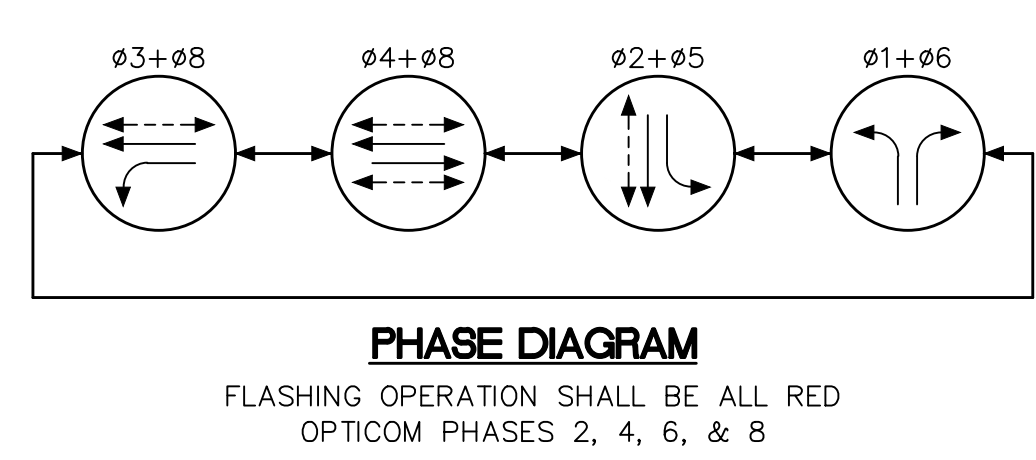
**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21,983**  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

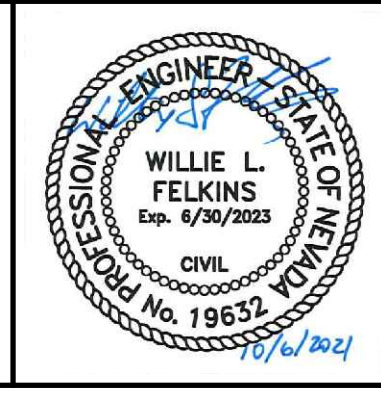
Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**Call 811**  
OR  
1-800-227-2600

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

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



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



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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





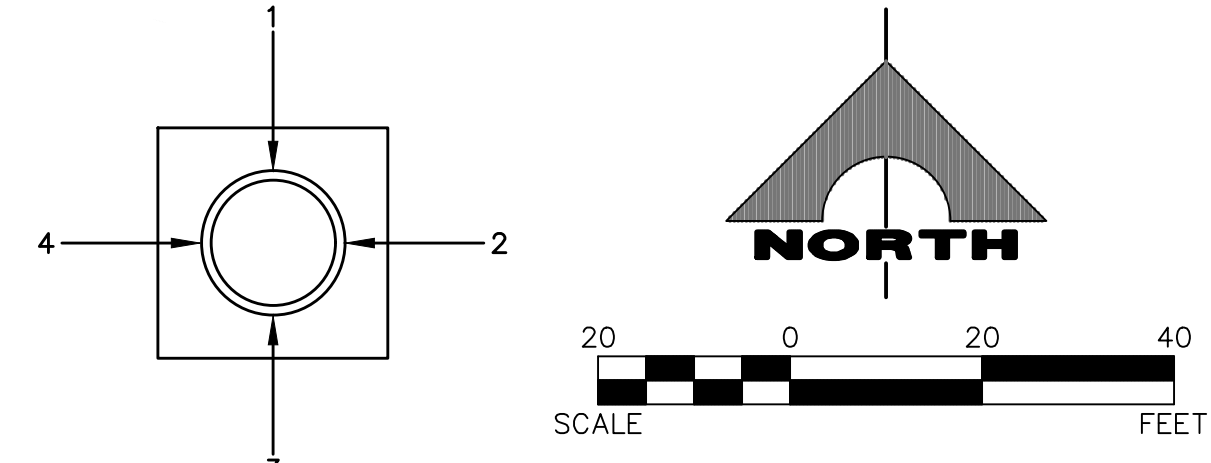


**TRAFFIC SIGNAL NOTES**

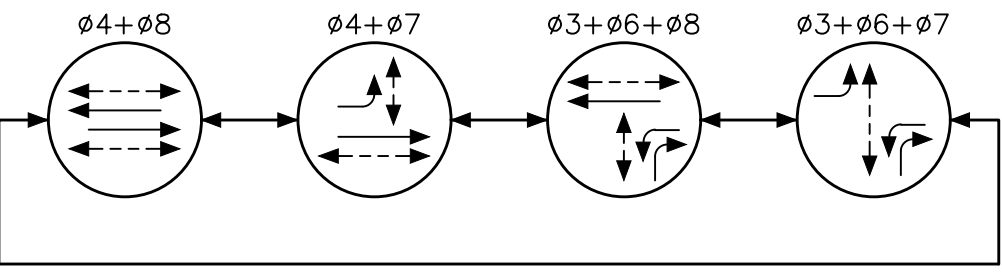
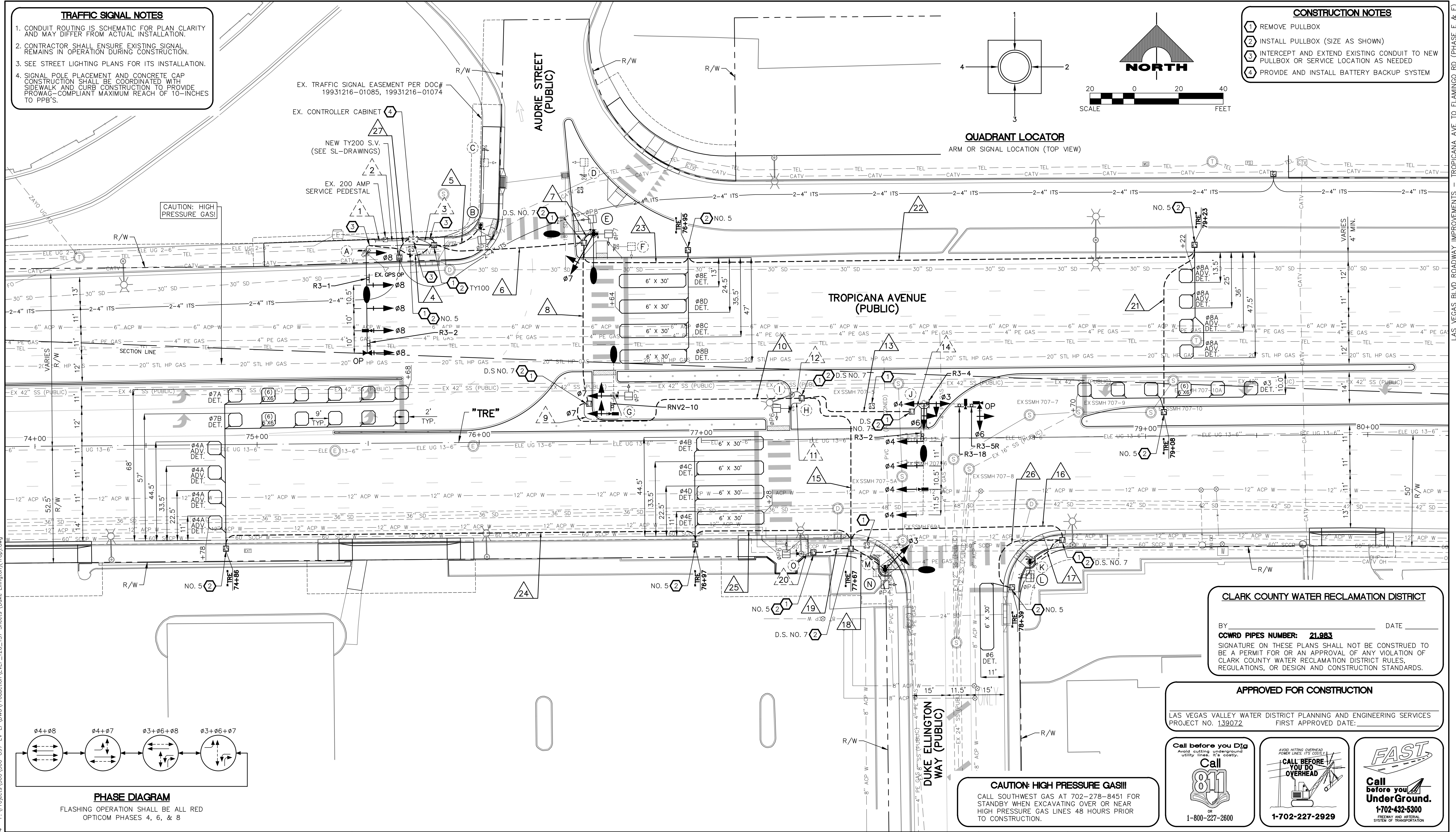
1. CONDUIT ROUTING IS SCHEMATIC FOR PLAN CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
2. CONTRACTOR SHALL ENSURE EXISTING SIGNAL REMAINS IN OPERATION DURING CONSTRUCTION.
3. SEE STREET LIGHTING PLANS FOR ITS INSTALLATION.
4. SIGNAL POLE PLACEMENT AND CONCRETE CAP CONSTRUCTION SHALL BE COORDINATED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

**CONSTRUCTION NOTES**

- 1 REMOVE PULLBOX
- 2 INSTALL PULLBOX (SIZE AS SHOWN)
- 3 INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW PULLBOX OR SERVICE LOCATION AS NEEDED
- 4 PROVIDE AND INSTALL BATTERY BACKUP SYSTEM



**QUADRANT LOCATOR**  
ARM OR SIGNAL LOCATION (TOP VIEW)



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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
**COWRD PIPES NUMBER: 21.983**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

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

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

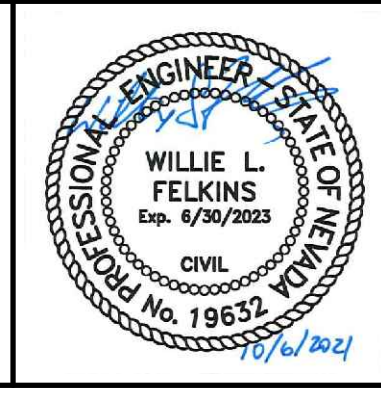
**FAST**  
**Call before you UnderGround.**  
**1-702-432-5300**  
 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

REV. NO.	DATE	DESCRIPTION	APPROVED



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



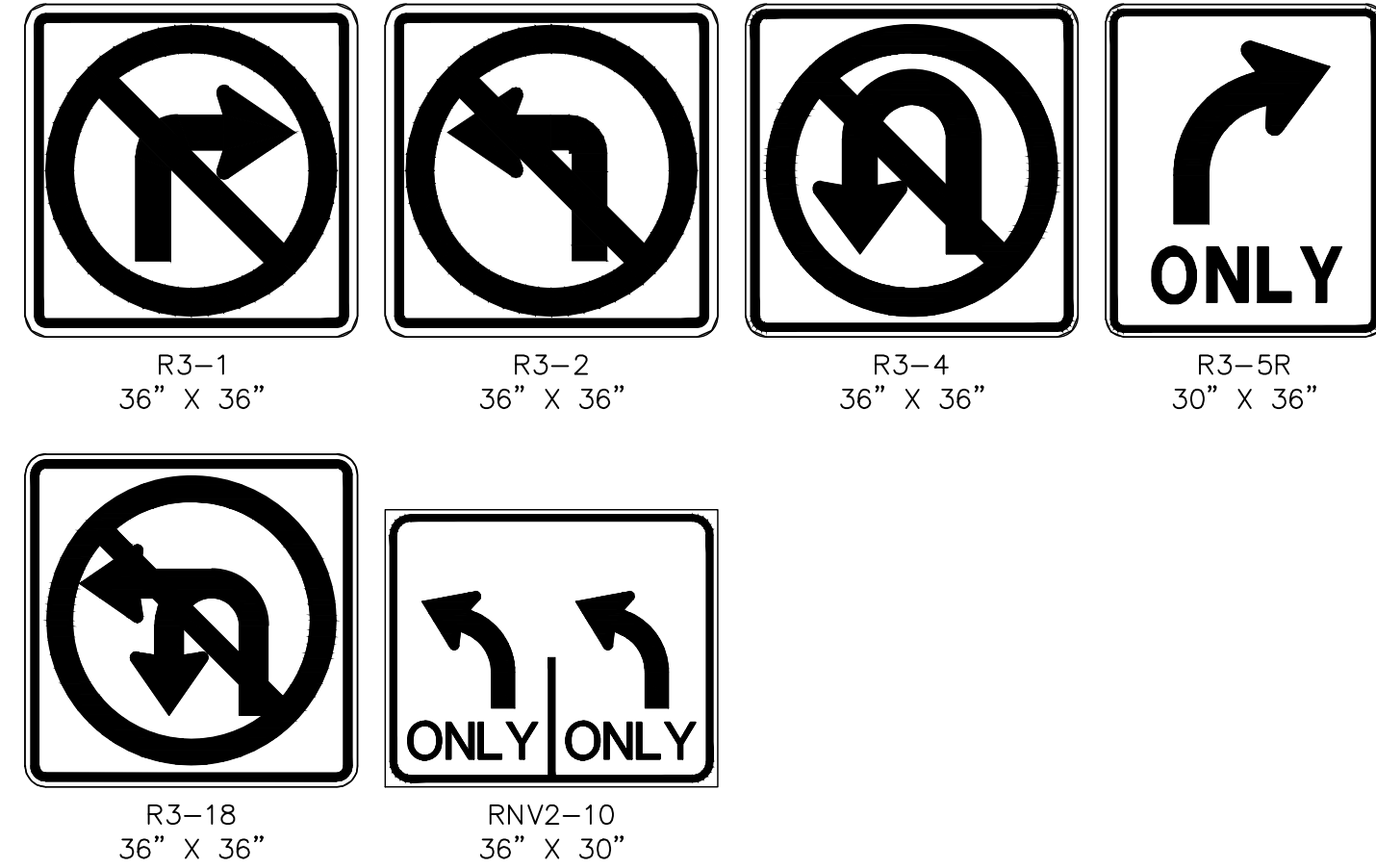
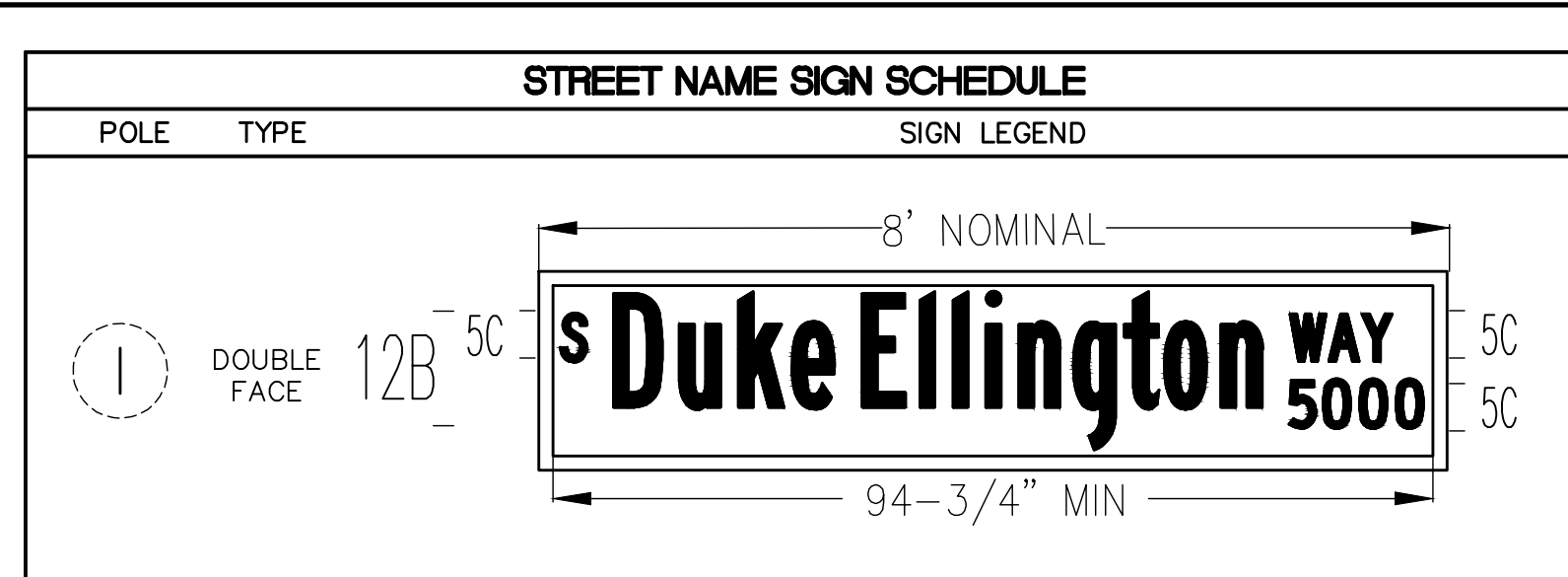
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

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

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





POLE SCHEDULE															
POLE	LOCATION STATION (OFFSET)	POLE				SIGNALS (VEH.)		SIGNALS (PED.)		PEDESTRIAN PUSH BUTTON		RED LIGHT INDICATORS		REMARKS	
		TYPE	SIGNAL ARM		LUM. ARM		TYPE	QUAD.	TYPE	QUAD.	QUAD. (PHASE)	SIGN	QUAD.		TYPE (PHASE)
			QUAD.	LENGTH	QUAD.	LENGTH									
(A)	EXISTING	XX(E)	3	45'	3(E)	15'(E)	M-2(4) B-1T	MAST ARM 1	-	-	-	-	4	R(#8)	MOUNT NEW MAST ARM ON EXISTING POLE. EXISTING DSRC, CCTV, AND GPS PREEMPTION TO REMAIN. #8 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #8 PER MANUFACTURER'S RECOMMENDATIONS. INSTALL NEW OPTICOM (TWO-WAY) ON MAST ARM. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. MOUNT R3-2 and R3-1 ON MAST ARM.
(B)	"TRE" 76+01.5 97.8' LT	1-A	-	-	-	-	-	-	W-0T	4	3(#8)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.
(C)	EXISTING	1-B(MOD) (E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE B. REMOVE FOUNDATION IN ITS ENTIRETY.
(D)	EXISTING	1-B(MOD) (E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION IN ITS ENTIRETY.
(E)	"TRE" 76+52.3 93.3' LT	XX-A	4	-	3 4	15' 15'	B-5T	2	W-3T	2	1(#8) 2(#7)	RT LT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #7 DISPLAY SHALL BE ALL ARROW INDICATIONS.
(F)	EXISTING	1-B(E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE E. REMOVE FOUNDATION IN ITS ENTIRETY.
(G)	EXISTING	XX(E)	3(E)	8'(E)	1(E)	15'(E)	M-2 B-5T	MAST ARM 1	W-0T	1	2(#7)	RT	-	-	EXISTING POLE TO REMAIN. MODIFY FOUNDATION CAP TO PROVIDE 10-INCH ADA REACH. REMOVE AND SALVAGE EXISTING MAST ARM SIGNAL HEAD AND INSTALL NEW M-2 HEAD ON EXISTING TENON. REMOVE AND SALVAGE EXISTING B-5T SIGNAL HEAD AND INSTALL NEW B-5T SIGNAL HEAD ON POLE SHAFT. #7 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-0T PEDESTRIAN SIGNAL HEAD ON POLE SHAFT. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #7 PER MANUFACTURER'S RECOMMENDATIONS. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. REMOVE AND SALVAGE EXISTING MAST ARM SIGNS AND MOUNT RNV2-10 ON MAST ARM.
(H)	EXISTING	1-B(E)	-	-	-	-	-	-	W-1T	POST TOP	4(#6)	RT	-	-	EXISTING POLE TO REMAIN. MODIFY FOUNDATION CAP TO PROVIDE 10-INCH ADA REACH. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-1T PEDESTRIAN SIGNAL HEAD. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB.
(I)	EXISTING	ST.LT.	-	-	3.5	15'(E)	-	-	-	-	-	-	-	-	EXISTING POLE TO REMAIN. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE.
(J)	EXISTING	XX-A(E)	2(E) 3(E)	25'(E) 50'(E)	3(E)	15'(E)	M-2(5) B-2T B-5T	MAST ARM 1	-	-	-	-	-	-	EXISTING POLE TO REMAIN. INSTALL THREE NEW M-2 HEADS ON EXISTING TENONS. INSTALL TWO NEW M-2 HEADS (#4) AND NEW TENONS. ALL NEW TENONS SHALL BE HOT-STICK GALVANIZED. REMOVE UNUSED TENONS, WELD PATCH TO CLOSE HOLES, AND HOT-STICK GALVANIZE PATCH. REMOVE AND SALVAGE MODIFIED B-2T SIGNAL HEAD. MODIFY PROPOSED B-2T ASSEMBLY TO INSTALL THIRD SIGNAL HEAD (B-5T) ON SAME ASSEMBLY. #3 AND #6 DISPLAYS SHALL HAVE ALL ARROW INDICATIONS. REMOVE AND SALVAGE EXISTING VIDEO DETECTION AND INSTALL NEW PRESENCE VIDEO DETECTION FOR FUTURE USE FOR #3, #4, AND #6 PER MANUFACTURER'S RECOMMENDATIONS. REMOVE AND SALVAGE ILLUMINATED STREET NAME SIGN AND INSTALL NEW AS INDICATED IN SIGN SCHEDULE. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE. REMOVE EXISTING SIGNS AND MOUNT NEW R3-2, R3-5R, AND R3-18 ON MAST ARM.
(K)	EXISTING	1-B(E)	-	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE K. REMOVE FOUNDATION IN ITS ENTIRETY.
(L)	"TRE" 78+47.4 56.4' RT	1-A	-	-	-	-	-	-	W-0T	3	1(#4)	RT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK.
(M)	EXISTING	1-A(E)	-	-	-	-	-	(E)	(E)	(E)	(E)	-	-	-	EXISTING POLE TO BE REMOVED UPON ACTIVATION OF REPLACEMENT POLE M. REMOVE FOUNDATION IN ITS ENTIRETY.
(N)	"TRE" 77+82.1 59.0' RT	XX-A	2	-	2	15'	B-5T	4	W-0T	4	1(#4)	LT	-	-	NEW POLE. CONCRETE FOUNDATION CAP SHALL BE FLUSH WITH SIDEWALK. #3 DISPLAY SHALL HAVE ALL ARROW INDICATIONS.
(O)	EXISTING	STLT(E)	-	-	1(E)	15'(E)	-	-	W-0T	3	4(#6)	LT	-	-	EXISTING POLE TO REMAIN. REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD AND INSTALL NEW W-0T PEDESTRIAN AS SHOWN. REMOVE AND SALVAGE EXISTING PPB AND INSTALL NEW PPB. REMOVE AND SALVAGE HPS LUMINAIRE AND INSTALL NEW 400W EQUIVALENT LED LUMINAIRE.

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**TRAFFIC SIGNAL SCHEDULES AND DETAILS**

**TROPICANA AVENUE/DUKE ELLINGTON WAY**

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

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

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY: \_\_\_\_\_

SCALE

HORIZ: NONE

VERT: NONE

FIELD BOOK

DRAWING NO.

**TS-18**

SHT. 121 OF 169

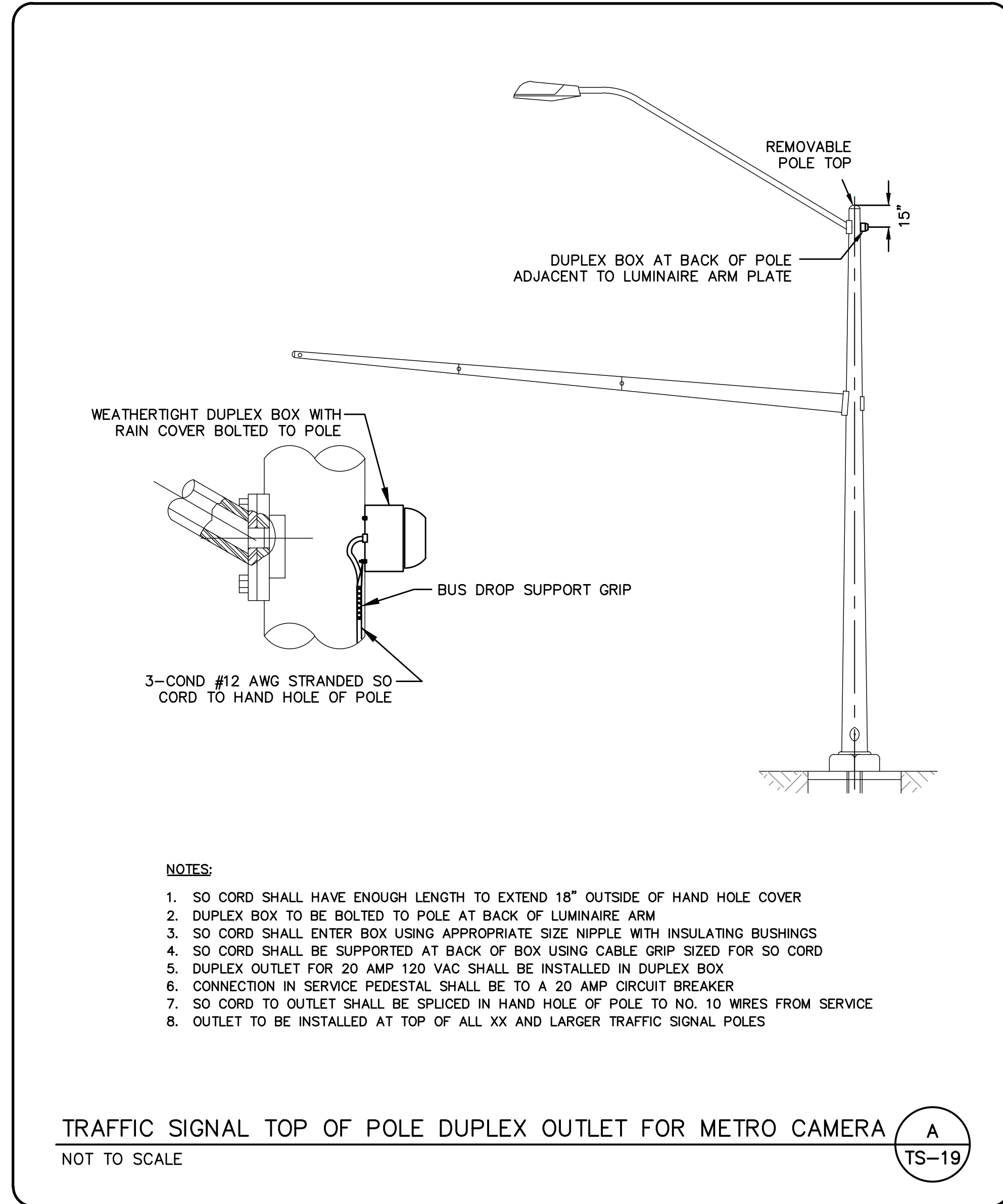
L-2304

**GCV** ENGINEERS \ SURVEYORS

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

BID NO.: 608978-21





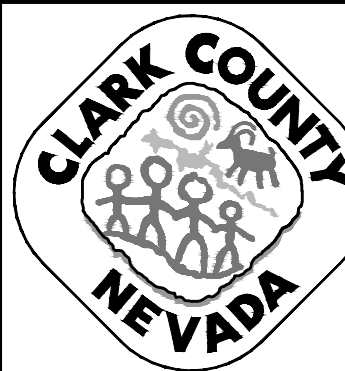
TRAFFIC SIGNAL TOP OF POLE DUPLEX OUTLET FOR METRO CAMERA  
 NOT TO SCALE

WIRE & CABLE	FROM	TO	CONDUIT AND WIRE SCHEDULE																											
			VIA CONDUIT																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
EXISTING	NVE TRANSFORMER(E)	SERVICE PEDESTAL(E)	X																											
EXISTING	SERVICE PEDESTAL(E)	CONTROLLER(E)		X																										
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) CCTV CABLE COHU MODEL CA295H GPS PREEMPTION M1070 CABLE V2X ROADSIDE UNIT (RSU) CABLE	CONTROLLER(E)	POLE A(E)			X	X																								
3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE OPTICOM M-138 CABLE	CONTROLLER(E)	POLE B				X	X																							
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE E				X	X	X																						
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE G(E)				X	X	X	X																					
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 2-25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 9-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE H(E)				X	X	X	X	X																				
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 2-25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 9-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE J(E)				X	X	X	X	X	X																			
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE L				X	X	X	X	X	X																			
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 (VIDEO DET) 3-#10 AWG. THW-2 OR XHHW-2 (METRO CAM DUPLEX OUTLET) BELDEN 8281 COAXIAL CABLE	CONTROLLER(E)	POLE N				X	X	X	X	X	X																			
25 CONDUCTOR #14 SIG. CABLE (MSA 20-1) 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E)	POLE O POLE A LUMINAIRE POLE E LUMINAIRE POLE G LUMINAIRE POLE I LUMINAIRE POLE J LUMINAIRE				X	X	X	X	X	X																			
3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2 3-#10 AWG. THW-2 OR XHHW-2	CONTROLLER(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E) SERVICE PEDESTAL(E)	POLE O POLE A LUMINAIRE POLE E LUMINAIRE POLE G LUMINAIRE POLE I LUMINAIRE				X	X	X	X	X	X																			
1-#12 AWG. PRESENCE LOOP LEAD-IN CABLE (MSA 50-2) 1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2) 4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2) 1-#12 AWG. ADVANCE LOOP LEAD-IN CABLE (MSA 50-2) 2-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2) 4-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2) 1-#12 AWG. PRESENCE LOOP LEAD-IN CABLES (MSA 50-2)	CONTROLLER(E) CONTROLLER(E) CONTROLLER(E) CONTROLLER(E) CONTROLLER(E) CONTROLLER(E) CONTROLLER(E)	DET #3 DET #8A DET #8B, #8C, #8D, #8E DET #4A DET #7A, #7B DET #4B, #4C, #4D, #4E DET #6				X	X	X	X	X	X																			
12-STRAND DCCA, 6 PR #22	CONTROLLER(E)	TY200 S.V.				X	X	X	X	X	X																			
CONDUIT SIZE (E) EXISTING			(E)	(E)	4-3" 2-2"	1-3" 1-2"	4-3" 4-2"	1-3" 1-2"	4-3" 2-2"	1-3" (E)	4-3" 2-2"	1-3" (E)	4-3" 2-2"	1-3" (E)	2-3" 2-2"	1-3" 2-3"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	1-3" 1-2"	

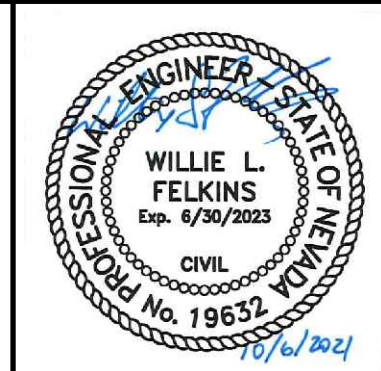
1. A NO. 8 GROUNDING WIRE SHALL BE RAN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.  
 2. VIDEO DETECTION CABLES FOR FUTURE USE SHALL RUN FROM THE CONTROLLER CABINET TO SIGNAL POLE BASES WITHOUT VIDEO DETECTION CAMERAS.  
 PROVIDE TWELVE FOOT OF SLACK IN CABINET AND ADEQUATE SLACK IN POLE BASE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

10-13-21 11:53:54 F:\Projects\500\500-897-LV-EF\DWG\Production\VEF\_202\_TS7\_Sheets (Duke Ellington)\Trop.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



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



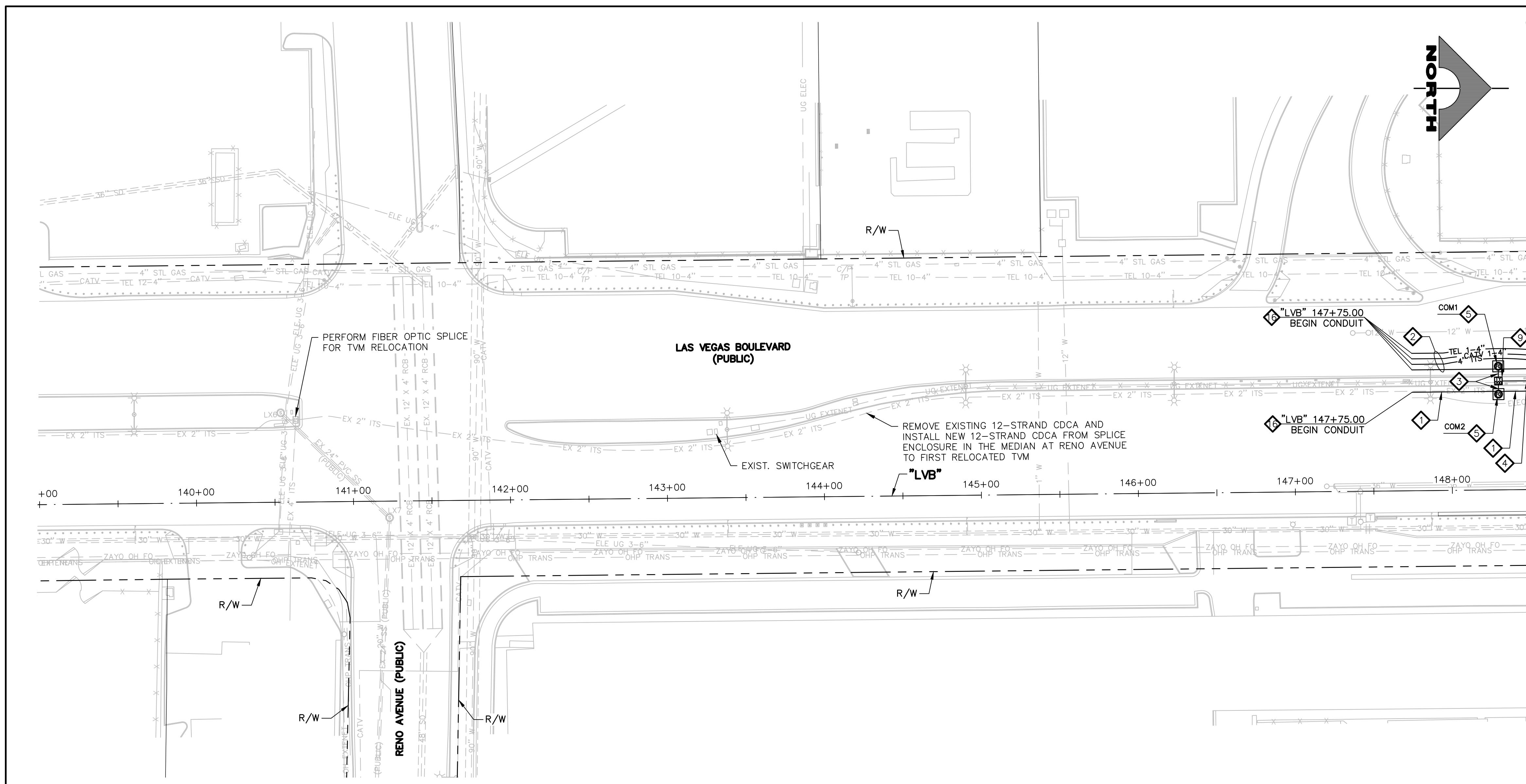
PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: WLF  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: NONE  
 VERT: NONE  
 FIELD BOOK  
 DRAWING NO.  
**TS-19**  
 SHT. 122 OF 169  
 L-2304

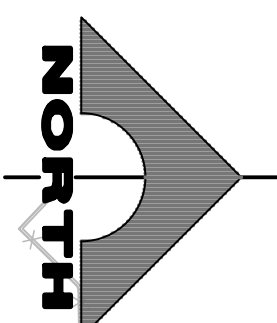
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



10-15-21 11:12:39 C:\Users\jdhines\Documents\Projects\Las Vegas\Las Vegas Blvd Roadway Improvements - Tropicana Ave to Flamingo Rd\17560\LVEF\_13\_COM\_Sheets.dwg



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



**COMMUNICATION NOTES**

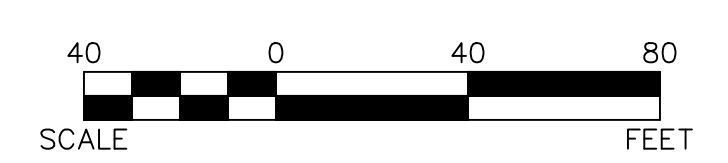
- 1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
- 2. INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
- 3. INSTALL PRIMARY COMMUNICATION LATERAL (SEE DETAIL 2, DRAWING CDT-2)
- 4. INSTALL SECONDARY COMMUNICATION LATERAL (SEE DETAIL 3, DRAWING CDT-2)
- 5. INSTALL 6'X6' TRAFFIC-RATED COMMUNICATION MANHOLE (SEE DRAWING CDT-4)
- 6. INSTALL (1) 1-INCH PVC CONDUIT
- 7. INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
- 8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761)
- 9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762)
- 10. INSTALL 4'X4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5)
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- 16. STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
- 17. INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-3)
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- 19. RELOCATE EXISTING PULL BOX
- 20. ADJUST EXISTING PULL BOX
- 21. RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
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- 23. INSTALL (2) 4-INCH PVC CONDUIT LATERAL (PROVIDER)
- 24. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (FAST)
- 25. REMOVE PULLBOX
- 26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES

**NOTES**

1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

**WATERLINE SEPARATION NOTE**

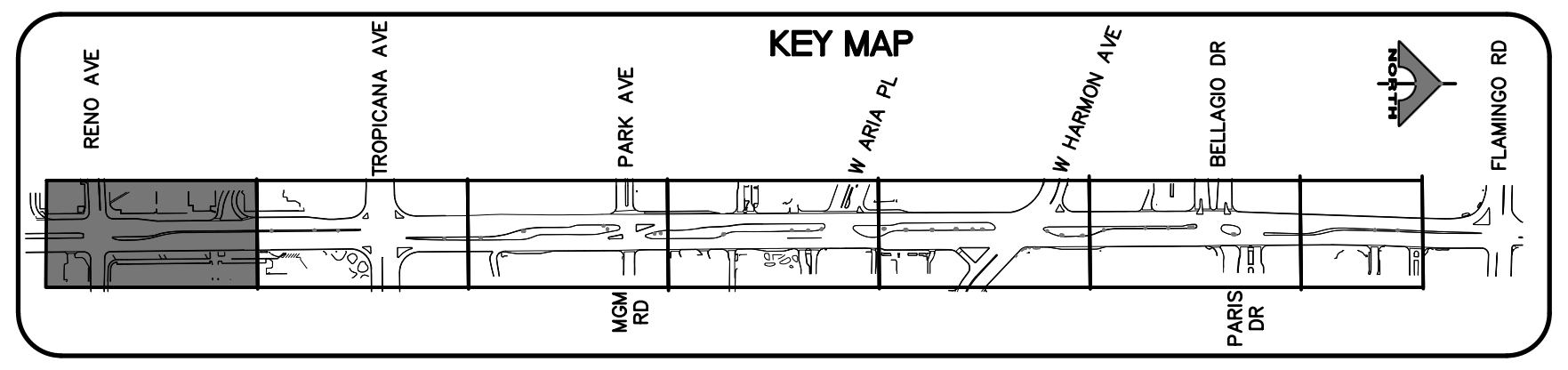
PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.



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

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
**CCWRD PIPES NUMBER: 21.983**  
 SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

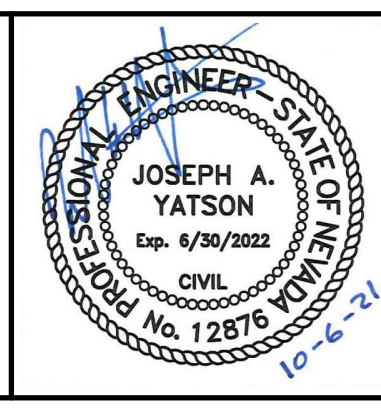


**SOUTHWEST GAS VALVE NOTE**  
 FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**COMMUNICATION PLAN**  
**"LVB" 139+00.00 TO "LVB" 148+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

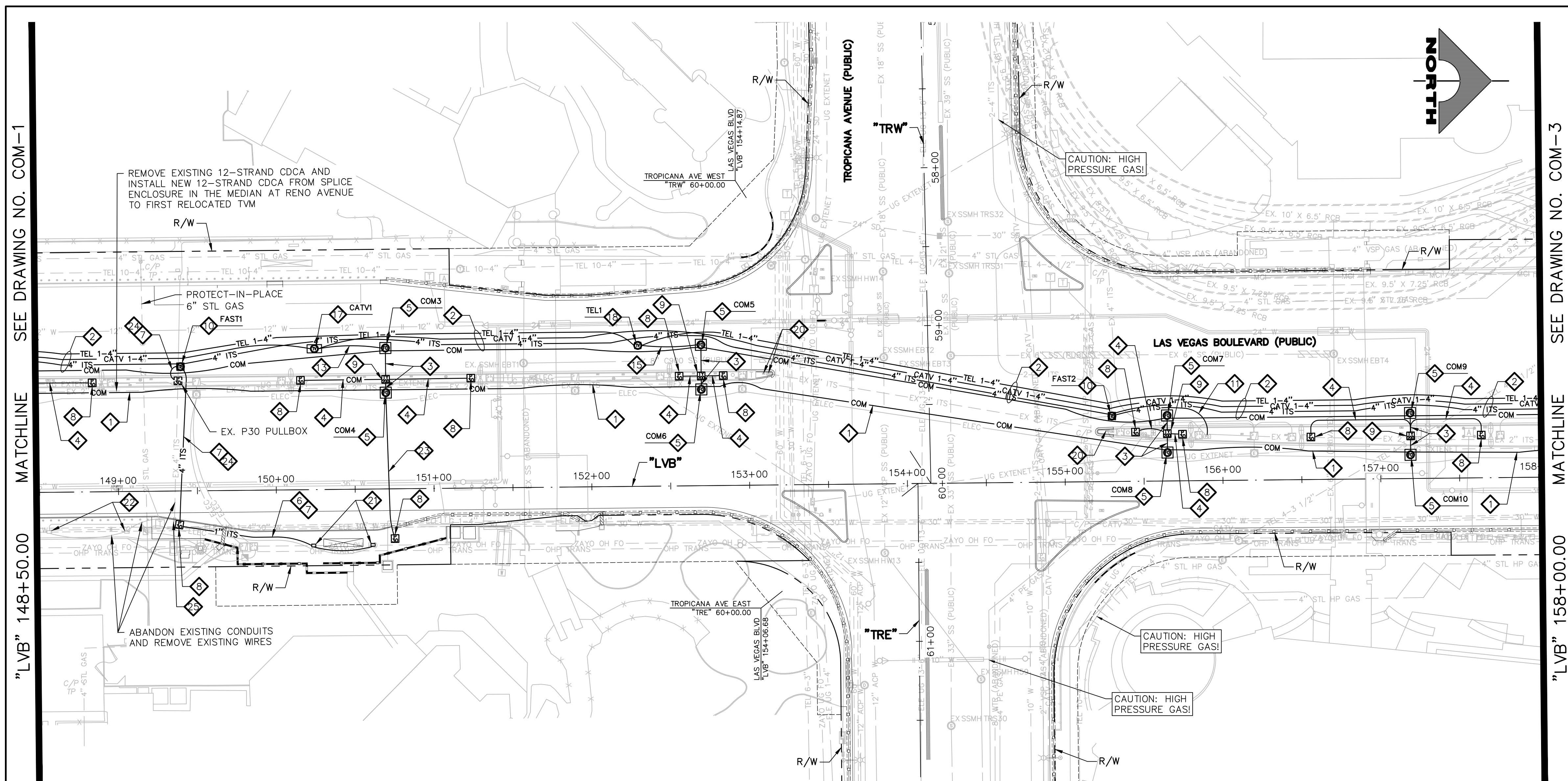


PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>COM-1</b>
VERT: NONE	SHT. 123 OF 169
FIELD BOOK	L-2304

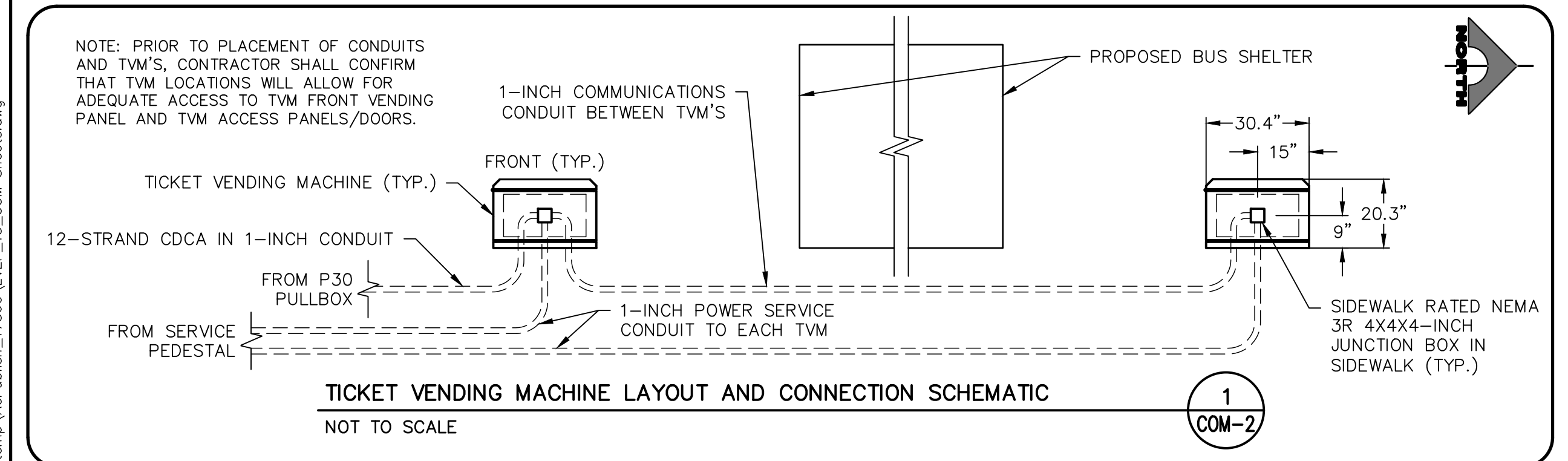
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)  
 BID NO.: 605978-21





SEE DRAWING NO. COM-1  
MATCHLINE  
"LVB" 148+50.00  
MATCHLINE  
"LVB" 158+00.00  
SEE DRAWING NO. COM-3

- ### COMMUNICATION NOTES
1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
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  25. REMOVE PULLBOX
  26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
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**SOUTHWEST GAS VALVE NOTE**  
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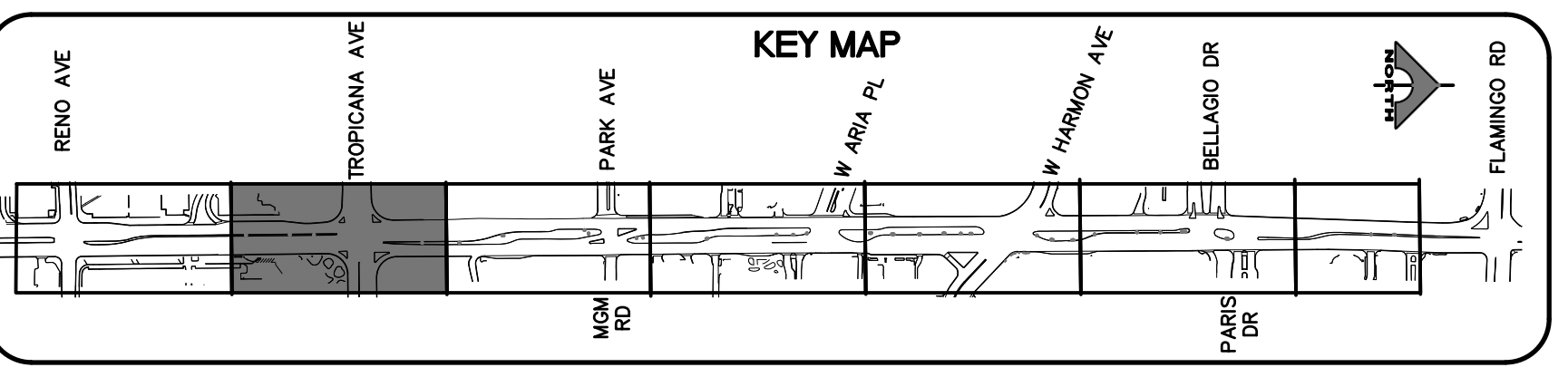
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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



**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

**Call before you UnderGround.**

1-702-432-5300

**Call before you Dig**

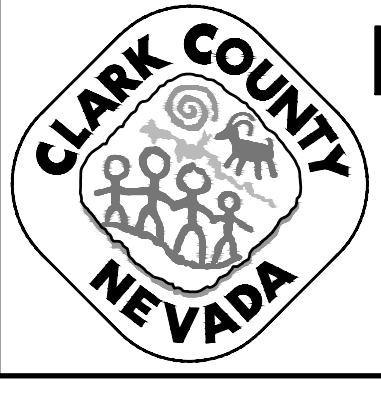
Avoid cutting underground utility lines. It's costly.

**Call 811**

OR

1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

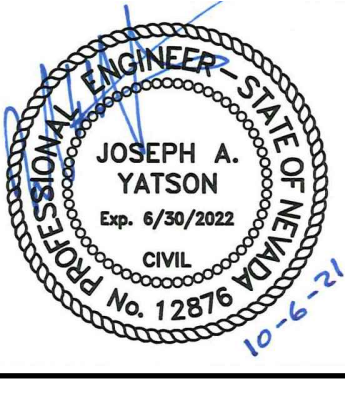


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### COMMUNICATION PLAN

#### "LVB" 148+50.00 TO "LVB" 158+00.00

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



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

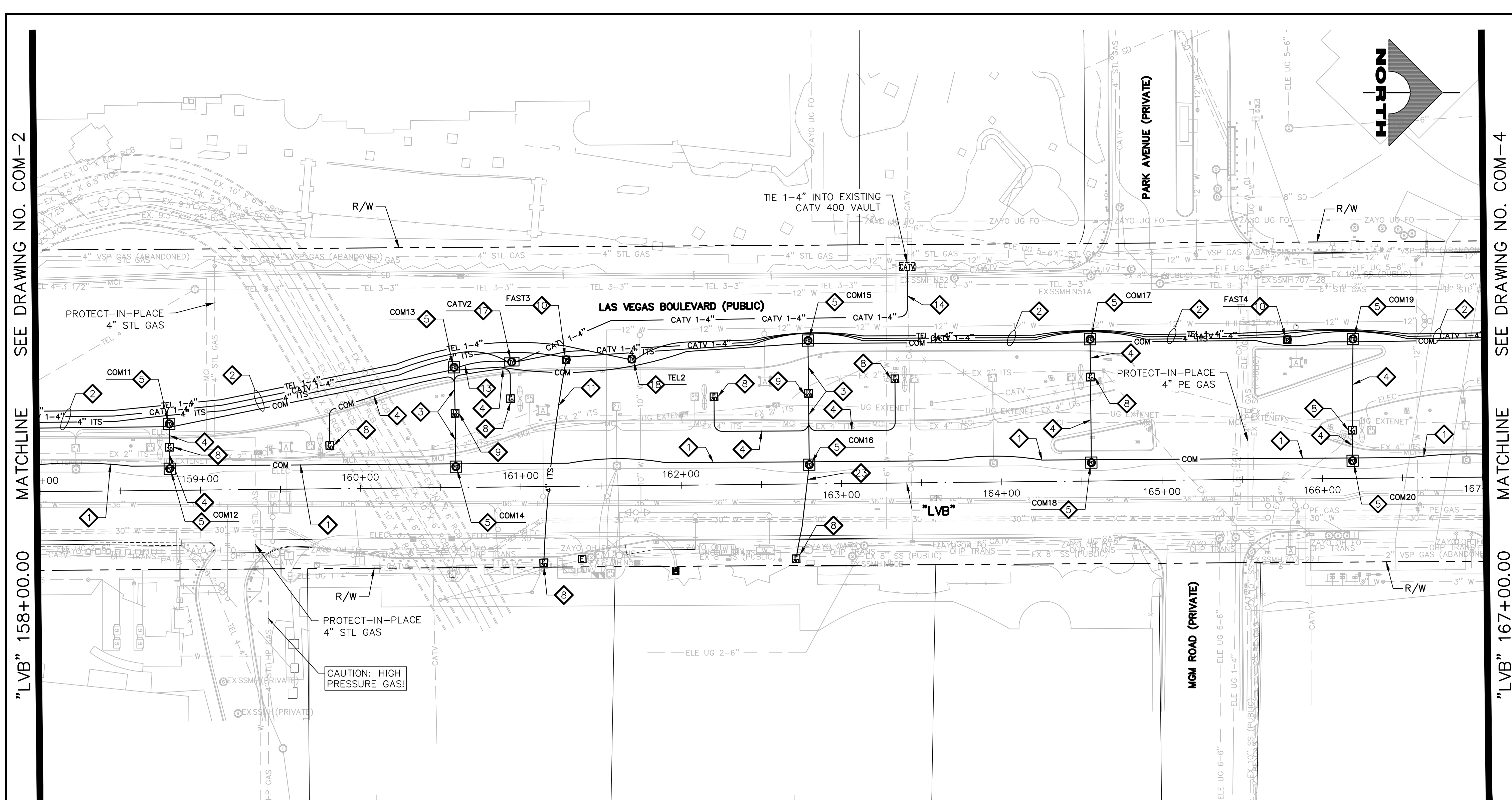
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD., LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>COM-2</b>
VERT: NONE	
FIELD BOOK	SHT. 124 OF 169
	L-2304

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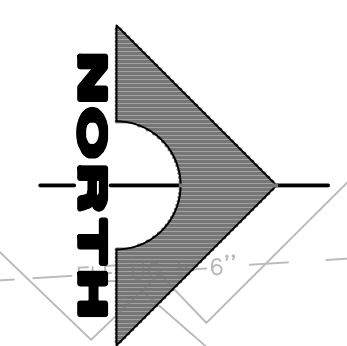
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





SEE DRAWING NO. COM-2  
MATCHLINE  
"LVB" 158+00.00  
MATCHLINE  
SEE DRAWING NO. COM-4

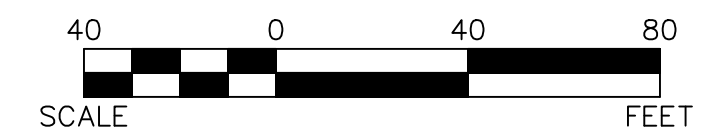
SEE DRAWING NO. COM-4  
MATCHLINE  
"LVB" 167+00.00  
MATCHLINE  
SEE DRAWING NO. COM-2



- ### COMMUNICATION NOTES
1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
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- ### NOTES
1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
  2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

### WATERLINE SEPARATION NOTE

PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.



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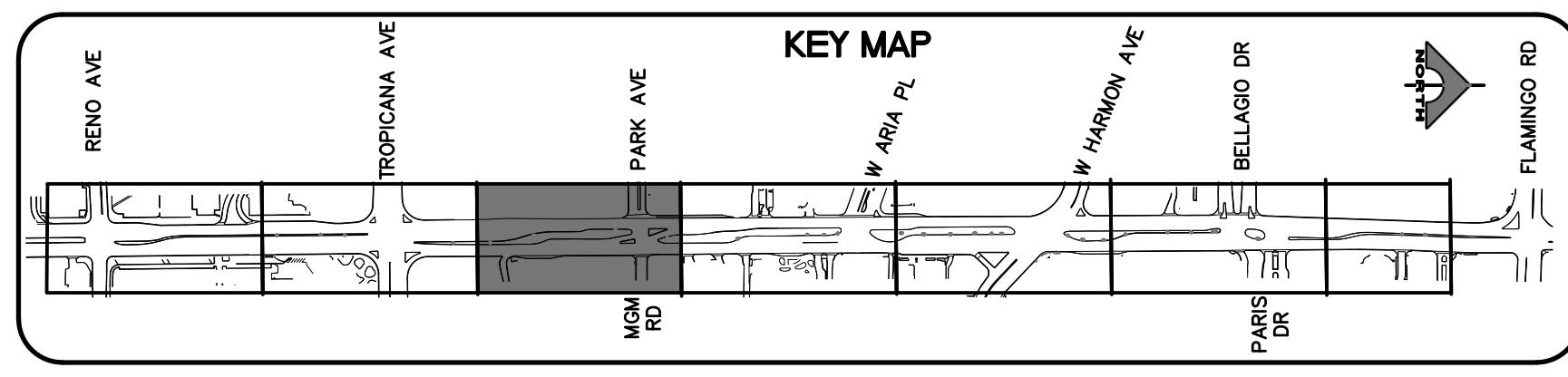
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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REV. NO.	DATE	DESCRIPTION	APPROVED

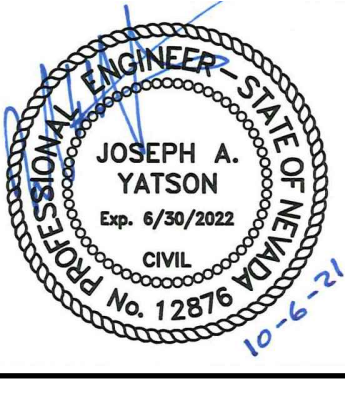


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### COMMUNICATION PLAN

#### "LVB" 158+00.00 TO "LVB" 167+00.00

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

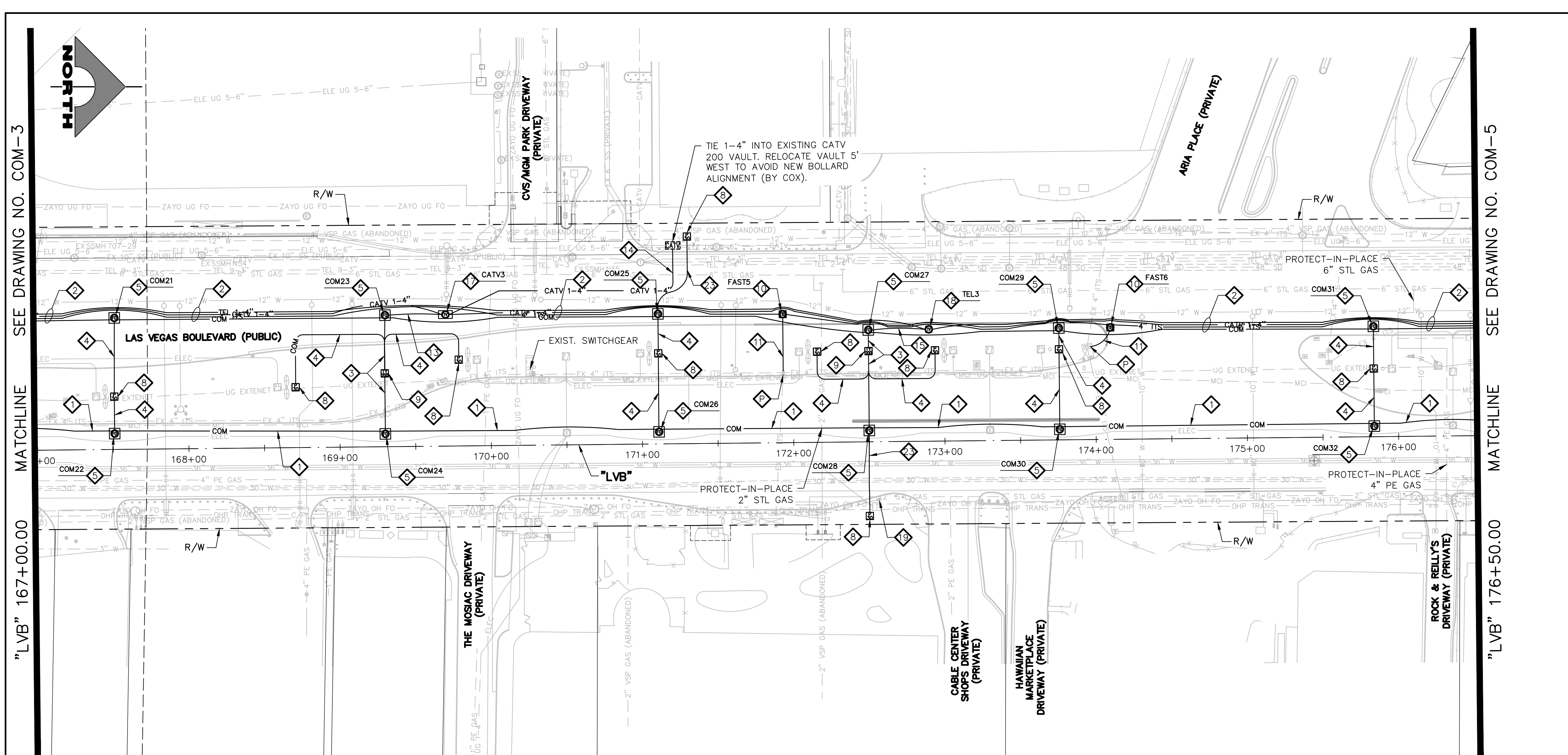


PROJECT No: 500-897-LV-EF	DRAWN BY: AV	SCALE	DRAWING NO.
DESIGNED BY: JAY	CHECKED BY: TAM	HORIZ: AS SHOWN	COM-3
APPROVED BY:		VERT: NONE	SHT. 125 OF 169
<b>GCV</b> ENGINEERS \ SURVEYORS 1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcwengineering.com		FIELD BOOK	L-2304

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

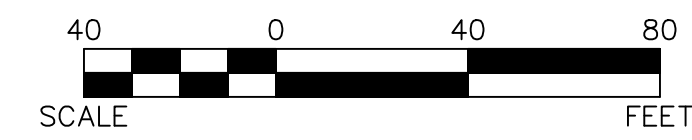




- ### COMMUNICATION NOTES
- 1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
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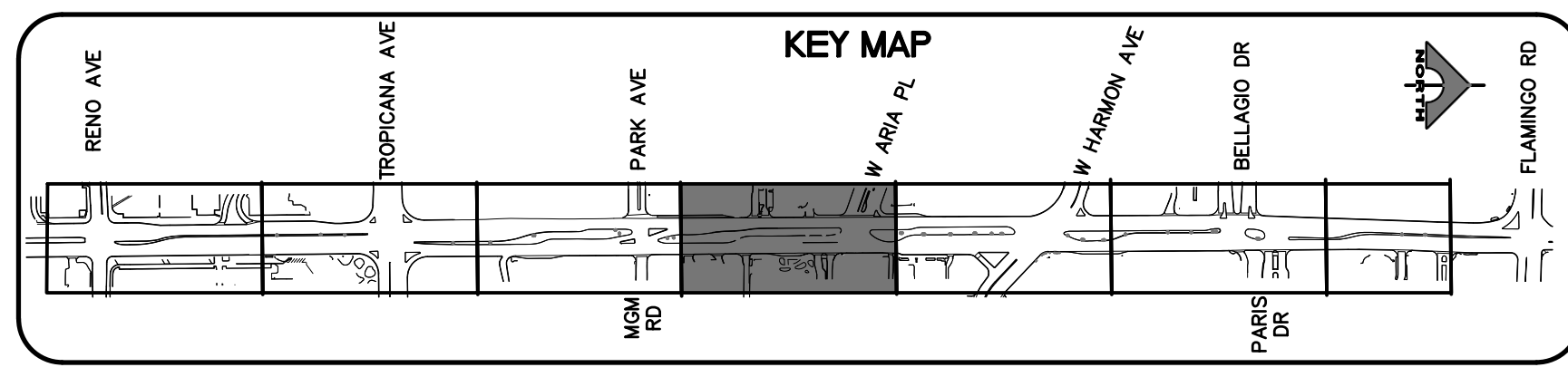
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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



REV. NO.	DATE	DESCRIPTION	APPROVED

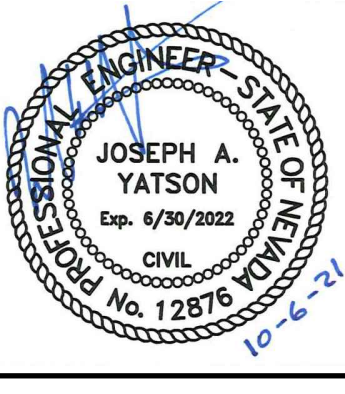


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### COMMUNICATION PLAN

#### "LVB" 167+00.00 TO "LVB" 176+50.00

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



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_

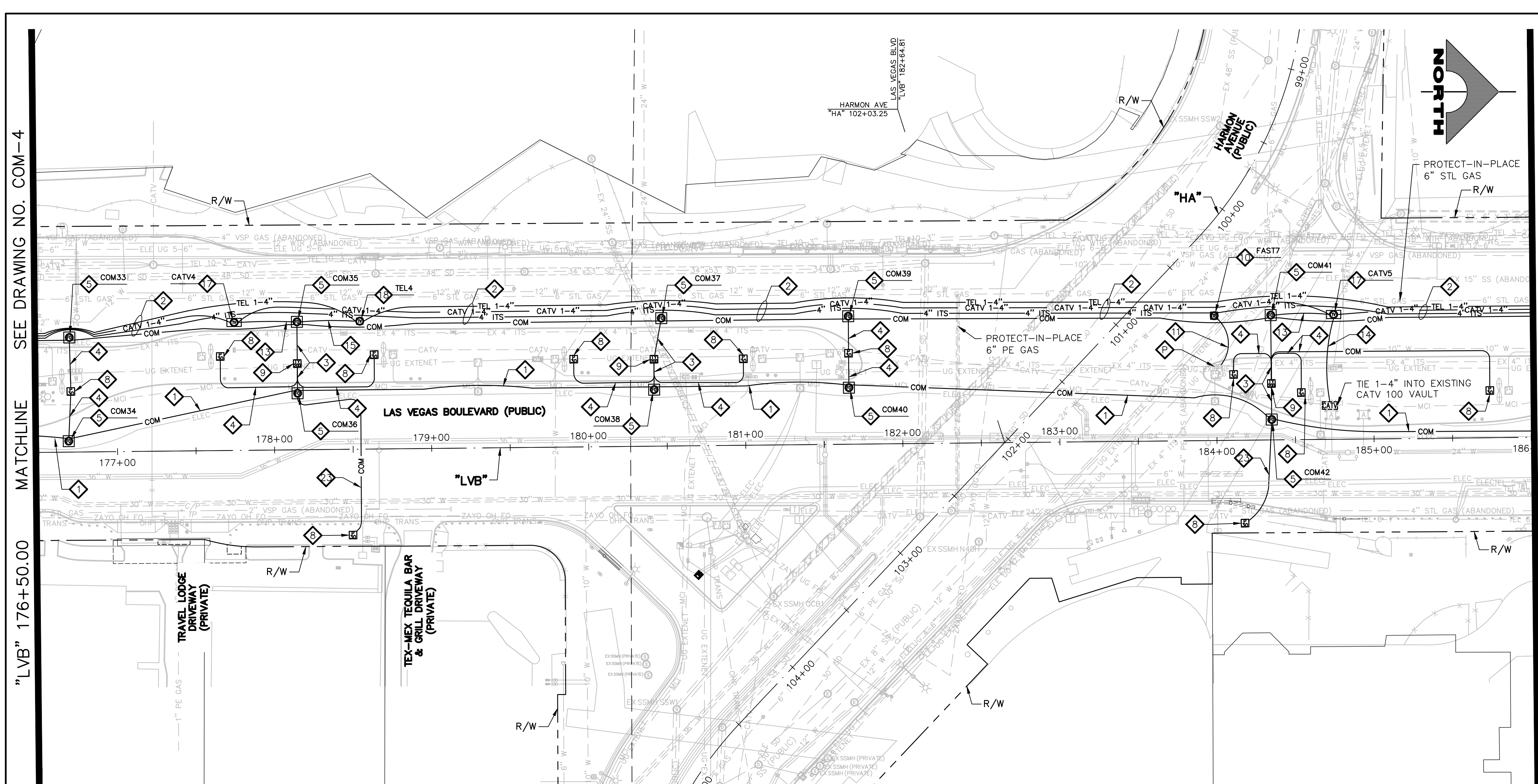
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcwengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	COM-4
VERT: NONE	SHT. 126 OF 169
FIELD BOOK	L-2304

10-15-21 11:13:01 C:\Users\jdhines\Documents\Projects\Las Vegas\Las Vegas\17560\LVB\13\_COM\_Sheets.dwg  
 jdhines

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



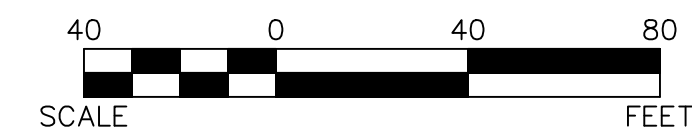


SEE DRAWING NO. COM-4  
MATCHLINE  
"LVB" 176+50.00  
MATCHLINE  
"LVB" 186+00.00  
SEE DRAWING NO. COM-6

- ### COMMUNICATION NOTES
- 1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
  - 2. INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
  - 3. INSTALL PRIMARY COMMUNICATION LATERAL (SEE DETAIL 2, DRAWING CDT-2)
  - 4. INSTALL SECONDARY COMMUNICATION LATERAL (SEE DETAIL 3, DRAWING CDT-2)
  - 5. INSTALL 6'x6' TRAFFIC-RATED COMMUNICATION MANHOLE (SEE DRAWING CDT-4)
  - 6. INSTALL (1) 1-INCH PVC CONDUIT
  - 7. INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
  - 8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761)
  - 9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762)
  - 10. INSTALL 4'x4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5)
  - 11. INSTALL COUNTY/F.A.S.T. LATERAL (SEE DETAIL 1, DRAWING CDT-3)
  - 12. INSTALL COUNTY DUCT BANK (SEE DETAIL 2, DRAWING CDT-3)
  - 13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX)
  - 14. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (COX)
  - 15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON)
  - 16. STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
  - 17. INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-3)
  - 18. INSTALL 4'x4'x4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
  - 19. RELOCATE EXISTING PULL BOX
  - 20. ADJUST EXISTING PULL BOX
  - 21. RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
  - 22. REMOVE AND SALVAGE EXISTING RTC TVM (BY RTC)
  - 23. INSTALL (2) 4-INCH PVC CONDUIT LATERAL (PROVIDER)
  - 24. INSTALL (1) 4-INCH PVC CONDUIT LATERAL (FAST)
  - 25. REMOVE PULLBOX
  - 26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- ### NOTES
1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
  2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

### WATERLINE SEPARATION NOTE

PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.



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

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

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

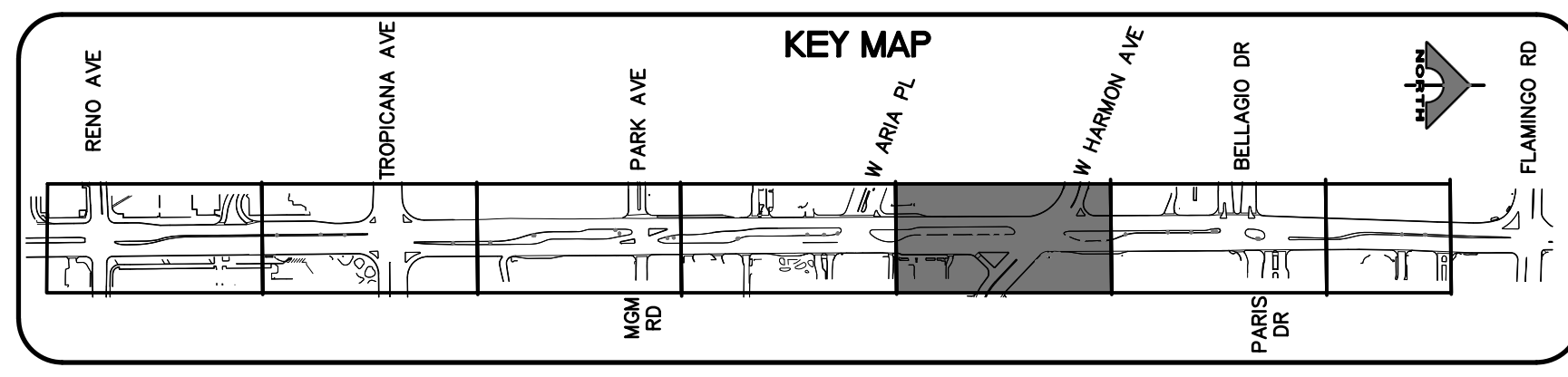
**APPROVED FOR CONSTRUCTION**

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

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



REV. NO.	DATE	DESCRIPTION	APPROVED

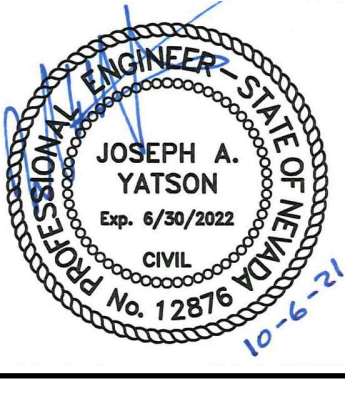


## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### COMMUNICATION PLAN

"LVB" 176+50.00 TO "LVB" 186+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

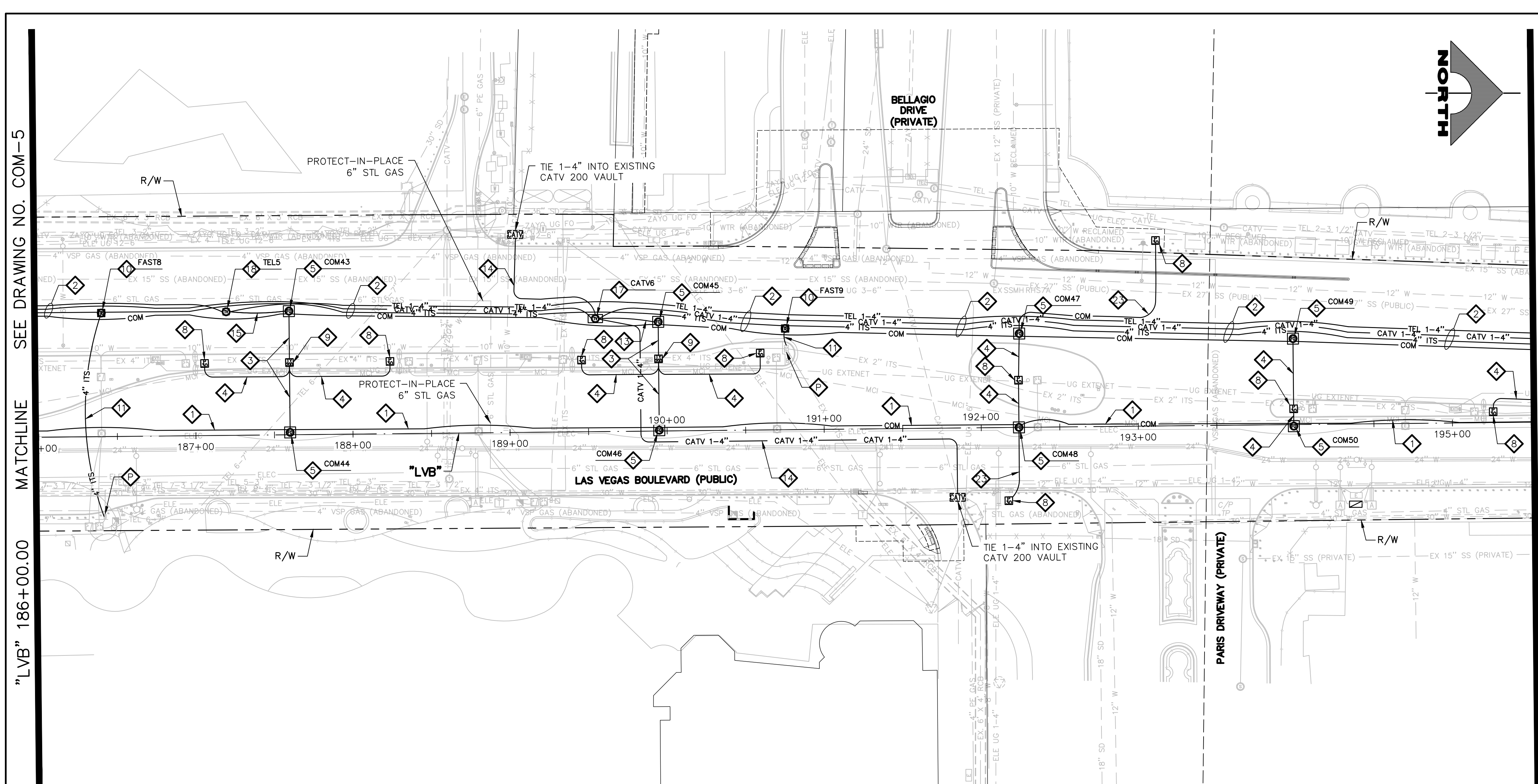
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD., LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	COM-5
VERT: NONE	SHT. 127 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



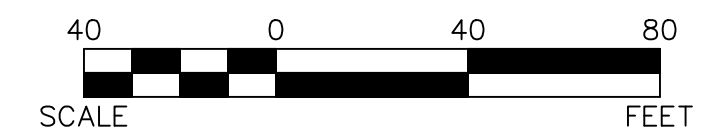


SEE DRAWING NO. COM-5  
MATCHLINE  
"LVB" 186+00.00  
MATCHLINE  
SEE DRAWING NO. COM-7

- ### COMMUNICATION NOTES
1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
  3. INSTALL PRIMARY COMMUNICATION LATERAL (SEE DETAIL 2, DRAWING CDT-2)
  4. INSTALL SECONDARY COMMUNICATION LATERAL (SEE DETAIL 3, DRAWING CDT-2)
  5. INSTALL 6'x6' TRAFFIC-RATED COMMUNICATION MANHOLE (SEE DRAWING CDT-4)
  6. INSTALL (1) 1-INCH PVC CONDUIT
  7. INSTALL 12-STRAND CDCA AND 1-6 PAIR REA-PE 39, #22 AWG
  8. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761)
  9. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762)
  10. INSTALL 4'x4' TRAFFIC-RATED F.A.S.T. MANHOLE (SEE DRAWING CDT-5)
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  13. INSTALL (1) 3-INCH PVC CONDUIT LATERAL (COX)
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  15. INSTALL (1) 4-INCH HDPE CONDUIT LATERAL (VERIZON)
  16. STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
  17. INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-3)
  18. INSTALL 4'x4'x4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
  19. RELOCATE EXISTING PULL BOX
  20. ADJUST EXISTING PULL BOX
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  26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- ### NOTES
1. SEE MANHOLE TABLES ON DRAWING COM-7 FOR MANHOLE LOCATIONS.
  2. ALL EMPTY CONDUIT SHALL BE CAPPED WITHIN PULLBOXES AND MANHOLES.

### WATERLINE SEPARATION NOTE

PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.



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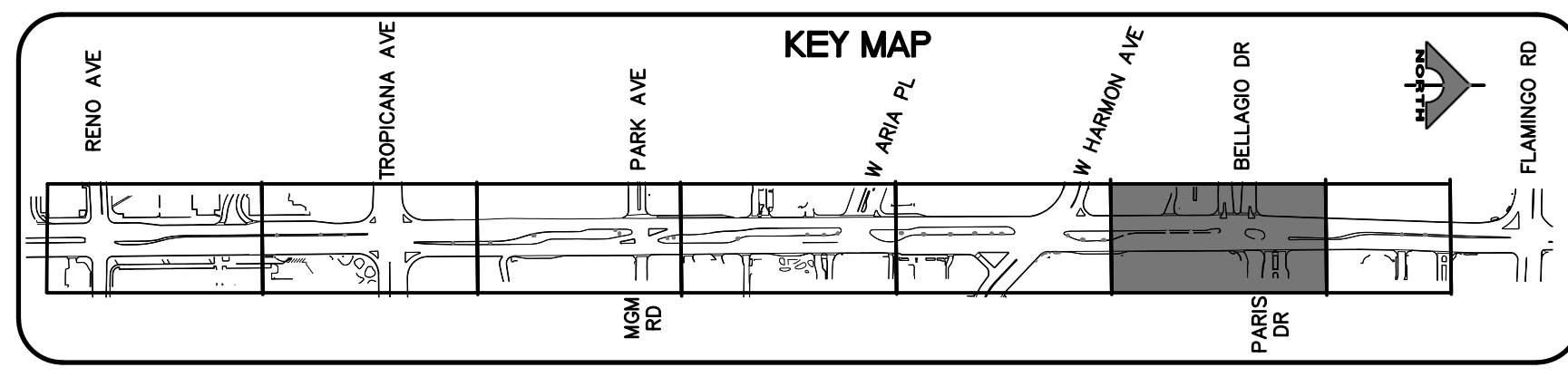
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**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

**CLARK COUNTY WATER RECLAMATION DISTRICT**

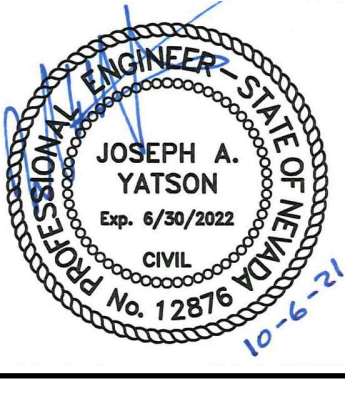
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**COMMUNICATION PLAN**  
"LVB" 186+00.00 TO "LVB" 195+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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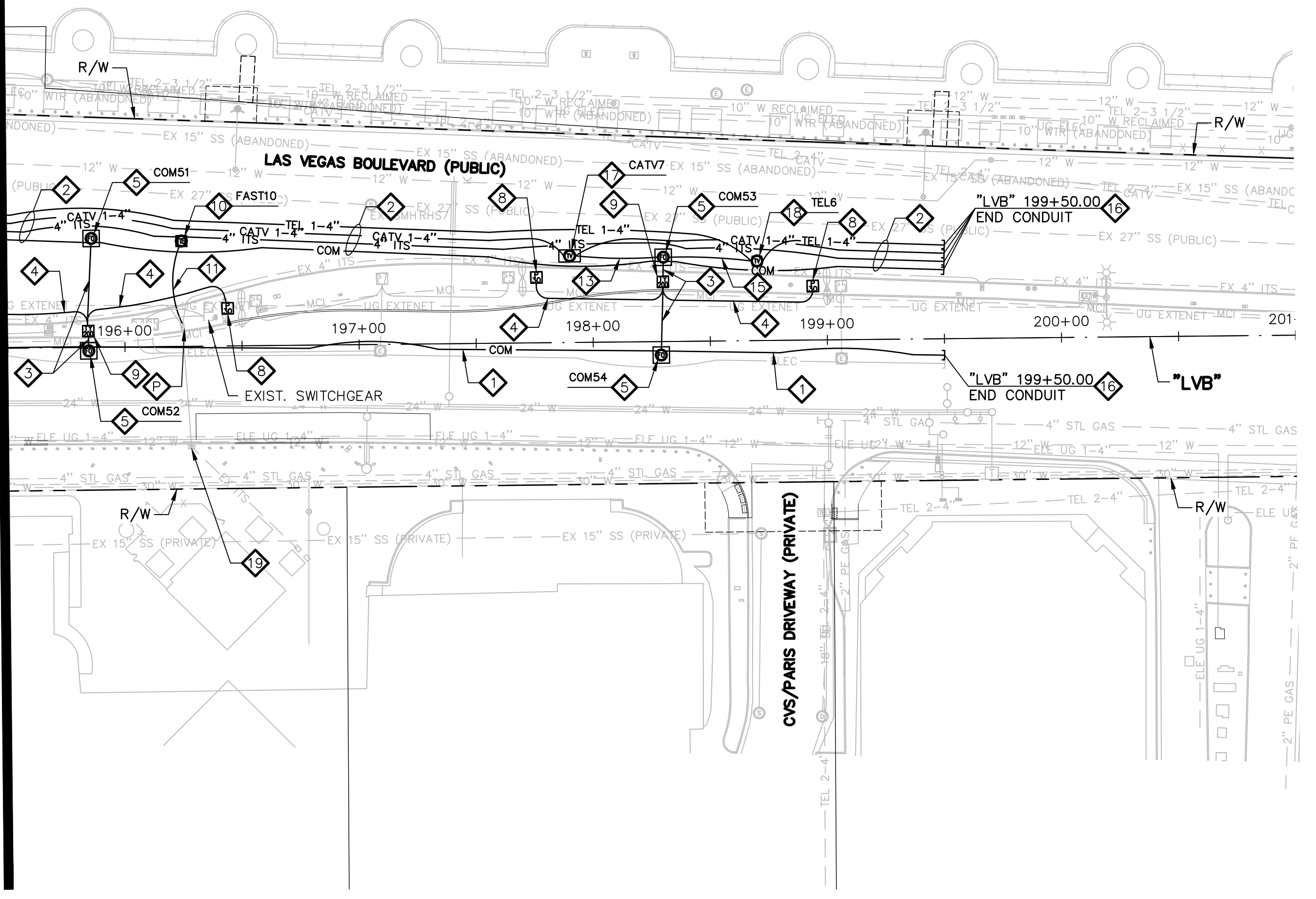
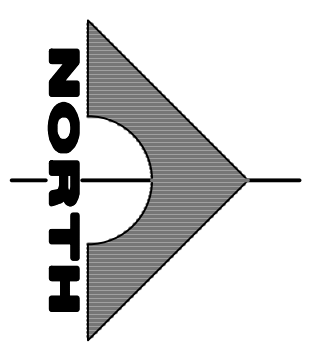
SCALE	DRAWING NO.
HORIZ: AS SHOWN	COM-6
VERT: NONE	SHT. 128 OF 169
FIELD BOOK	L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



SEE DRAWING NO. COM-6  
MATCHLINE  
"LVB" 195+50.00



ID	STATION & OFFSET
COM1	"LVB" 148+30.00, 78.75 LT
COM2	"LVB" 148+30.00, 61.00 LT
COM3	"LVB" 150+70.00, 89.25 LT
COM4	"LVB" 150+70.00, 61.00 LT
COM5	"LVB" 152+70.00, 89.25 LT
COM6	"LVB" 152+70.00, 61.00 LT
COM7	"LVB" 155+65.00, 41.50 LT
COM8	"LVB" 155+65.00, 18.00 LT
COM9	"LVB" 157+19.00, 41.50 LT
COM10	"LVB" 157+19.00, 15.00 LT
COM11	"LVB" 158+81.00, 41.50 LT
COM12	"LVB" 158+81.00, 13.50 LT
COM13	"LVB" 160+59.00, 75.00 LT
COM14	"LVB" 160+59.00, 13.00 LT
COM15	"LVB" 162+80.00, 89.50 LT
COM16	"LVB" 162+80.00, 12.00 LT
COM17	"LVB" 164+56.00, 88.50 LT
COM18	"LVB" 164+56.00, 11.50 LT
COM19	"LVB" 166+20.00, 87.00 LT
COM20	"LVB" 166+19.00, 11.00 LT
COM21	"LVB" 167+51.50, 87.00 LT
COM22	"LVB" 167+51.00, 10.50 LT
COM23	"LVB" 169+30.50, 87.00 LT
COM24	"LVB" 169+30.00, 8.50 LT
COM25	"LVB" 171+11.00, 86.00 LT
COM26	"LVB" 171+11.00, 8.00 LT
COM27	"LVB" 172+50.00, 74.00 LT
COM28	"LVB" 172+50.00, 7.50 LT
COM29	"LVB" 173+76.00, 74.00 LT
COM30	"LVB" 173+76.00, 7.00 LT
COM31	"LVB" 175+84.00, 73.00 LT
COM32	"LVB" 175+84.00, 7.00 LT
COM33	"LVB" 176+70.00, 73.00 LT
COM34	"LVB" 176+69.00, 7.00 LT
COM35	"LVB" 178+15.00, 81.50 LT
COM36	"LVB" 178+15.00, 36.00 LT
COM37	"LVB" 180+47.00, 81.50 LT
COM38	"LVB" 180+42.00, 36.00 LT
COM39	"LVB" 181+66.00, 81.50 LT
COM40	"LVB" 181+66.00, 36.00 LT

ID	STATION & OFFSET
COM41	"LVB" 184+35.00, 79.50 LT
COM42	"LVB" 184+35.00, 13.00 LT
COM43	"LVB" 187+60.00, 78.75 LT
COM44	"LVB" 187+60.00, 1.50 LT
COM45	"LVB" 189+95.00, 69.50 LT
COM46	"LVB" 189+95.00, 0.50 LT
COM47	"LVB" 192+24.75, 59.75 LT
COM48	"LVB" 192+24.00, 0.00
COM49	"LVB" 193+99.00, 54.75 LT
COM50	"LVB" 193+99.00, 1.00 RT
COM51	"LVB" 195+86.00, 46.50 LT
COM52	"LVB" 195+84.50, 1.50 RT
COM53	"LVB" 198+30.25, 36.00 LT
COM54	"LVB" 198+29.00, 5.75 RT

ID	STATION & OFFSET
FAST1	"LVB" 149+40.00, 78.75 LT
FAST2	"LVB" 155+30.00, 41.50 LT
FAST3	"LVB" 161+29.00, 79.00 LT
FAST4	"LVB" 165+79.00, 87.00 LT
FAST5	"LVB" 171+93.50, 85.00 LT
FAST6	"LVB" 174+10.00, 74.00 LT
FAST7	"LVB" 183+99.00, 79.50 LT
FAST8	"LVB" 186+40.50, 78.75 LT
FAST9	"LVB" 190+75.75, 64.50 LT
FAST10	"LVB" 196+24.50, 45.00 LT

ID	STATION & OFFSET
CATV1	"LVB" 150+25.00, 89.25 LT
CATV2	"LVB" 160+95.00, 78.00 LT
CATV3	"LVB" 169+70.50, 87.00 LT
CATV4	"LVB" 177+75.00, 81.50 LT
CATV5	"LVB" 184+75.00, 79.50 LT
CATV6	"LVB" 189+55.00, 72.00 LT
CATV7	"LVB" 197+90.25, 37.00 LT

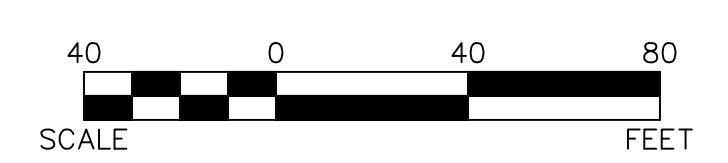
ID	STATION & OFFSET
TEL1	"LVB" 152+30.00, 89.25 LT
TEL2	"LVB" 161+70.00, 79.00 LT
TEL3	"LVB" 172+90.00, 74.00 LT
TEL4	"LVB" 178+55.00, 81.50 LT
TEL5	"LVB" 187+20.00, 78.75 LT
TEL6	"LVB" 198+70.25, 34.00 LT

**COMMUNICATION NOTES**

- 1. INSTALL MAIN COMMUNICATION BANK 'A' (SEE DETAIL 1, DRAWING CDT-1)
  - 2. INSTALL MAIN COMMUNICATION BANK 'B' (SEE DETAIL 1, DRAWING CDT-2)
  - 3. INSTALL PRIMARY COMMUNICATION LATERAL (SEE DETAIL 2, DRAWING CDT-2)
  - 4. INSTALL SECONDARY COMMUNICATION LATERAL (SEE DETAIL 3, DRAWING CDT-2)
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  - 16. STUB AND CAP CONDUIT (SEE DETAIL 4, DRAWING CDT-2)
  - 17. INSTALL TYPE 510 MANHOLE (CATV) (SEE DETAIL 1, DRAWING CDT-7)
  - 18. INSTALL 4'X4'X4' MANHOLE (VERIZON) (SEE DRAWING CDT-6)
  - 19. RELOCATE EXISTING PULL BOX
  - 20. ADJUST EXISTING PULL BOX
  - 21. RESET SALVAGED RTC TICKET VENDING MACHINE (TVM) (BY RTC). CONTRACTOR SHALL RUN 1-1" CONDUIT TO EACH SUCCESSIVE TVM AND CONNECT WITH CAT 6 CABLES. (SEE DETAIL 1, DRAWING COM-2)
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  - 26. PROTECT-IN-PLACE EXISTING F.A.S.T. FACILITIES
- NOTES**
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**WATERLINE SEPARATION NOTE**

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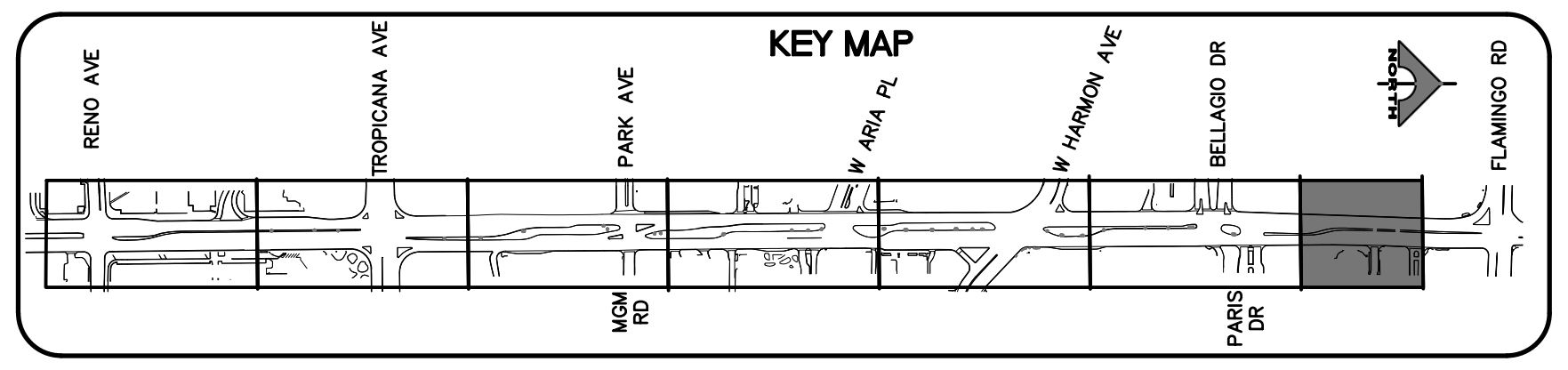
PROTECT IN PLACE AND ADJUST ALL LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072 FIRST APPROVED DATE:

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983

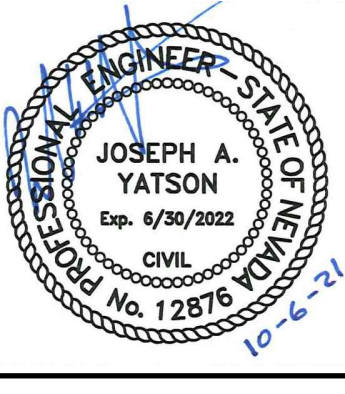
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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**COMMUNICATION PLAN**  
"LVB" 195+50.00 TO "LVB" 201+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

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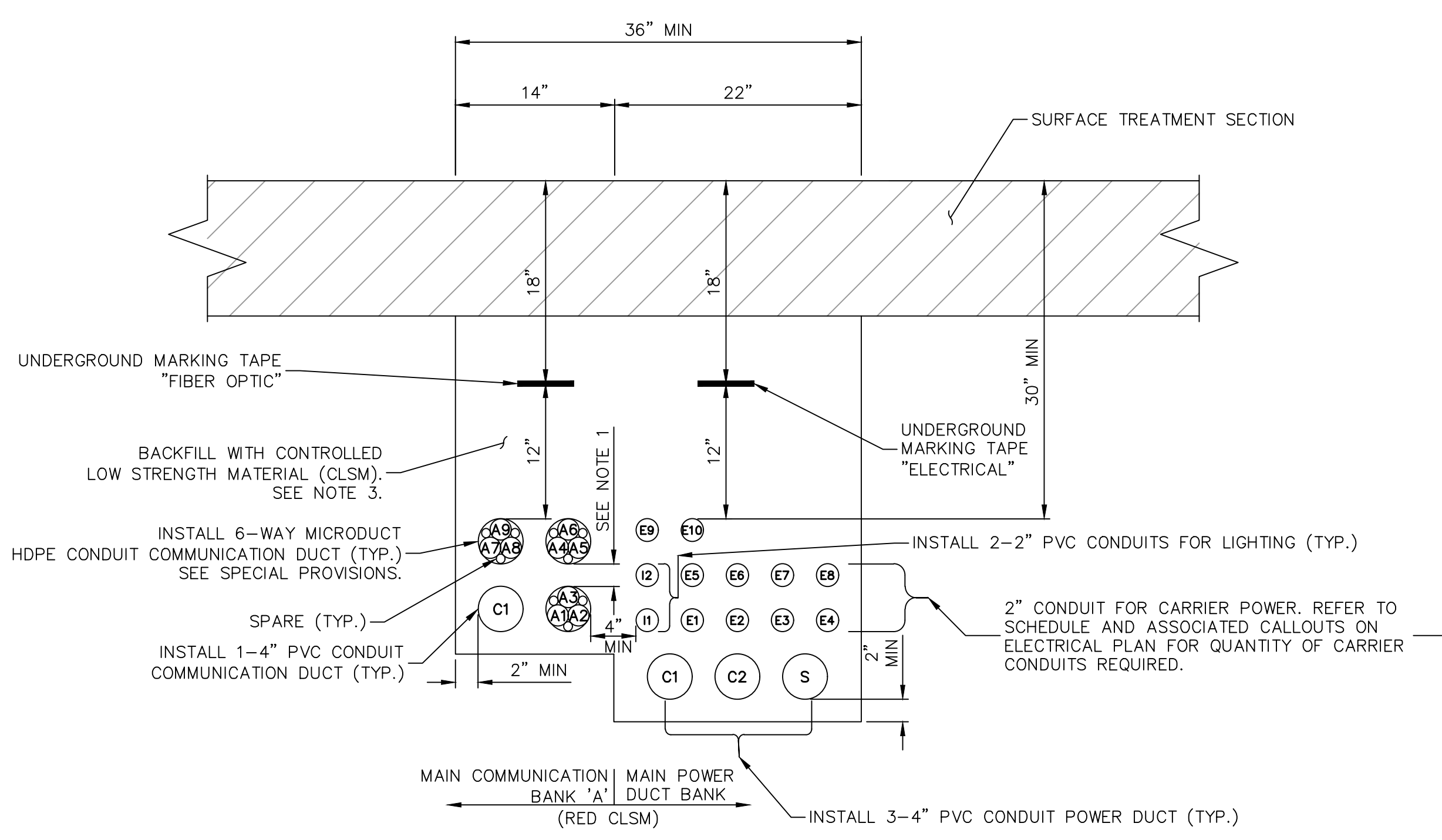
SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
**COM-7**  
SHT. 129 OF 169  
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21



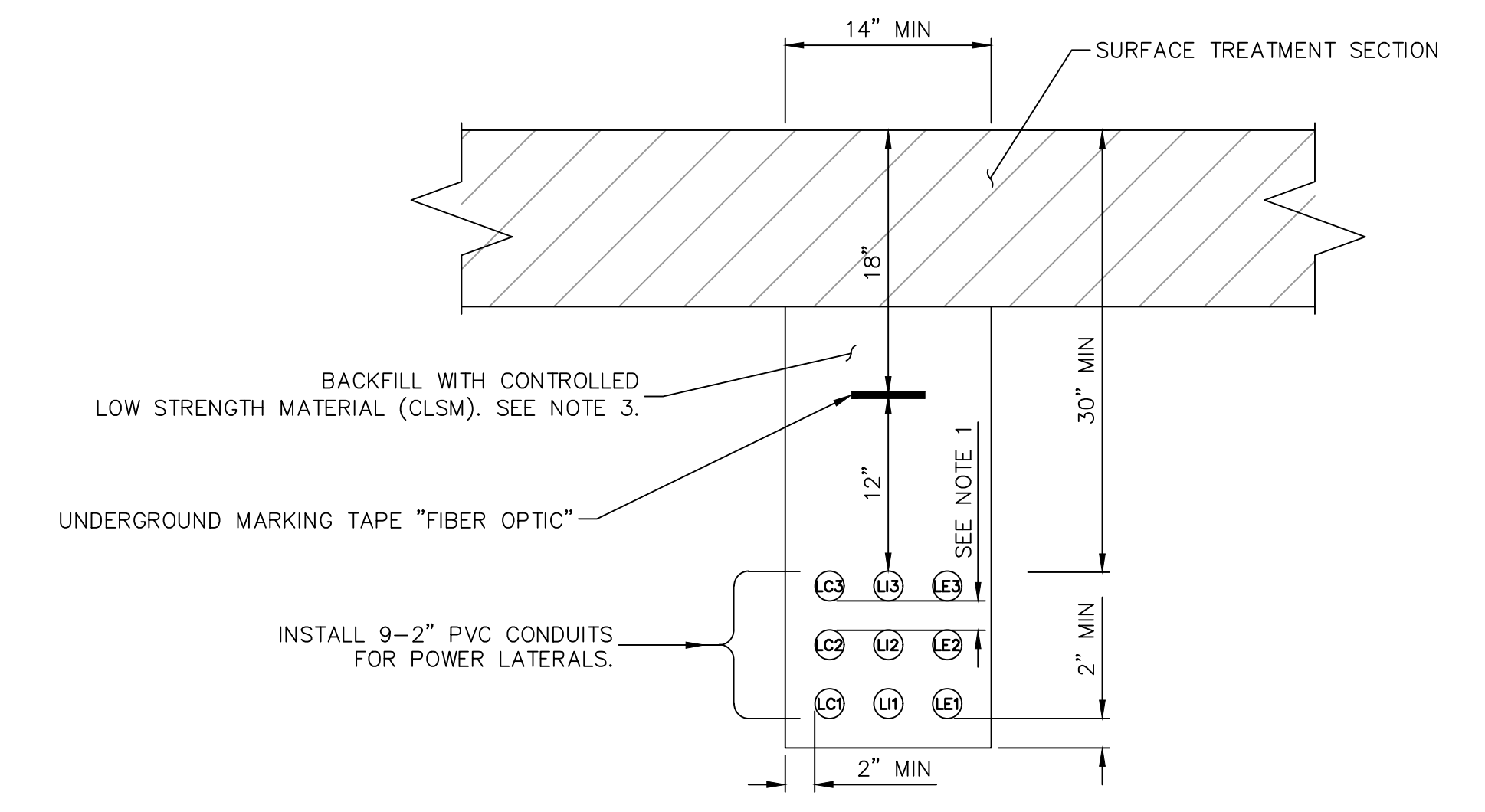


NOTE	# OF CONDUITS
②	(2) E1-E2
③	(3) E1-E3
④	(4) E1-E4
⑤	(5) E1-E5
⑥	(6) E1-E6
⑦	(7) E1-E7
⑧	(8) E1-E8
⑨	(9) E1-E9
⑩	(10) E1-E10

COMMUNICATION MICROCONDUIT COLOR DESIGNATION			
OUTER SHEATH	INNER CONDUIT	DESIGNEE	
A1	ORANGE	RED	VERIZON
A2	ORANGE	GREEN	LV. NET
A3	ORANGE	BLUE	COX
A4	ORANGE	YELLOW	ZAYO
A5	ORANGE	ORANGE	AT&T
A6	ORANGE	BROWN	EXTENET
A7	ORANGE	WHITE	MOBILITIE
A8	ORANGE	GREY	CROWN
A9	ORANGE	BLACK	FUTURE
P1	GREY	BLUE	COUNTY
P2	GREY	GREEN	COUNTY
P3	GREY	ORANGE	COUNTY

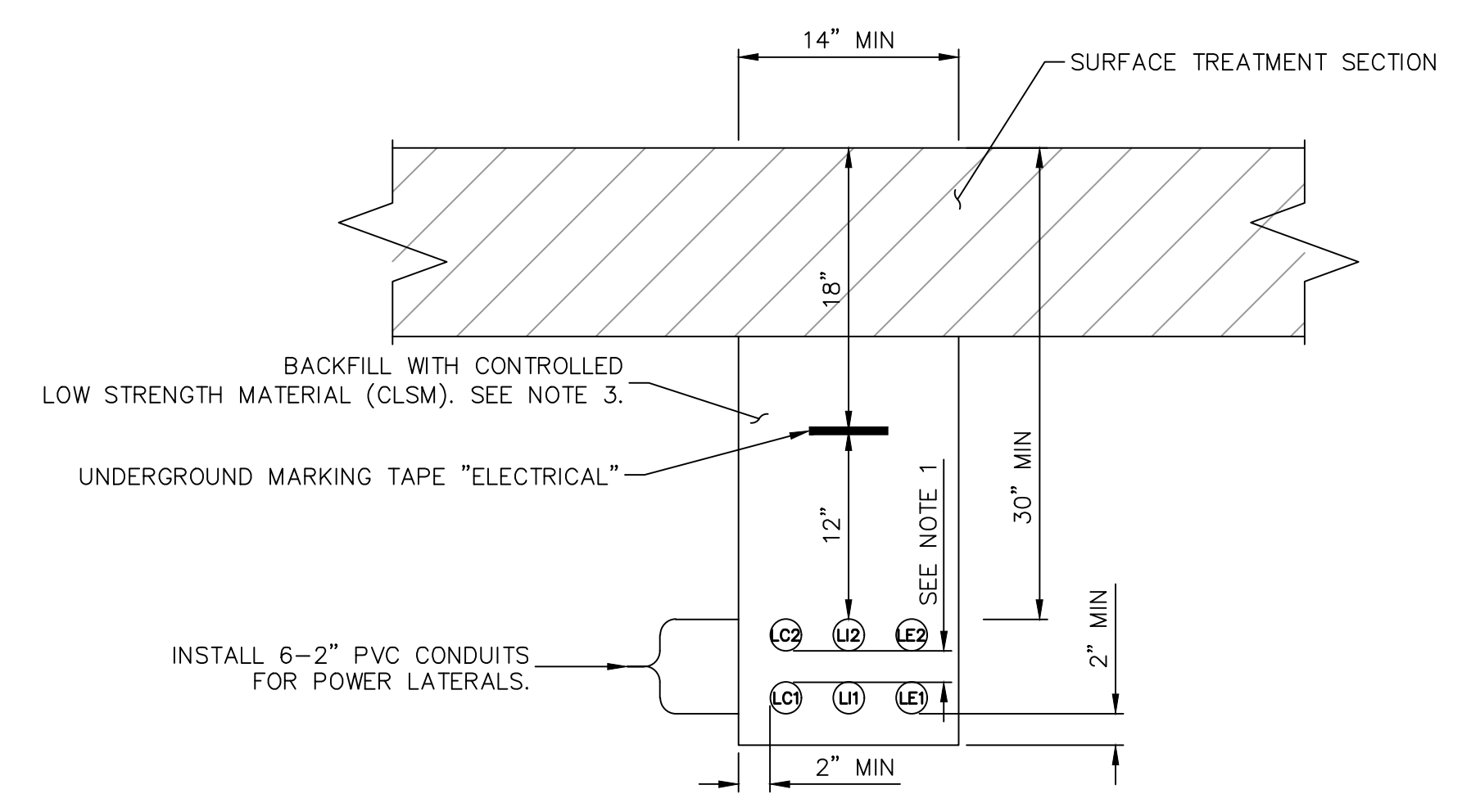
**MAIN COMMUNICATION BANK 'A' & MAIN POWER DUCT BANK  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

1  
CDT-1



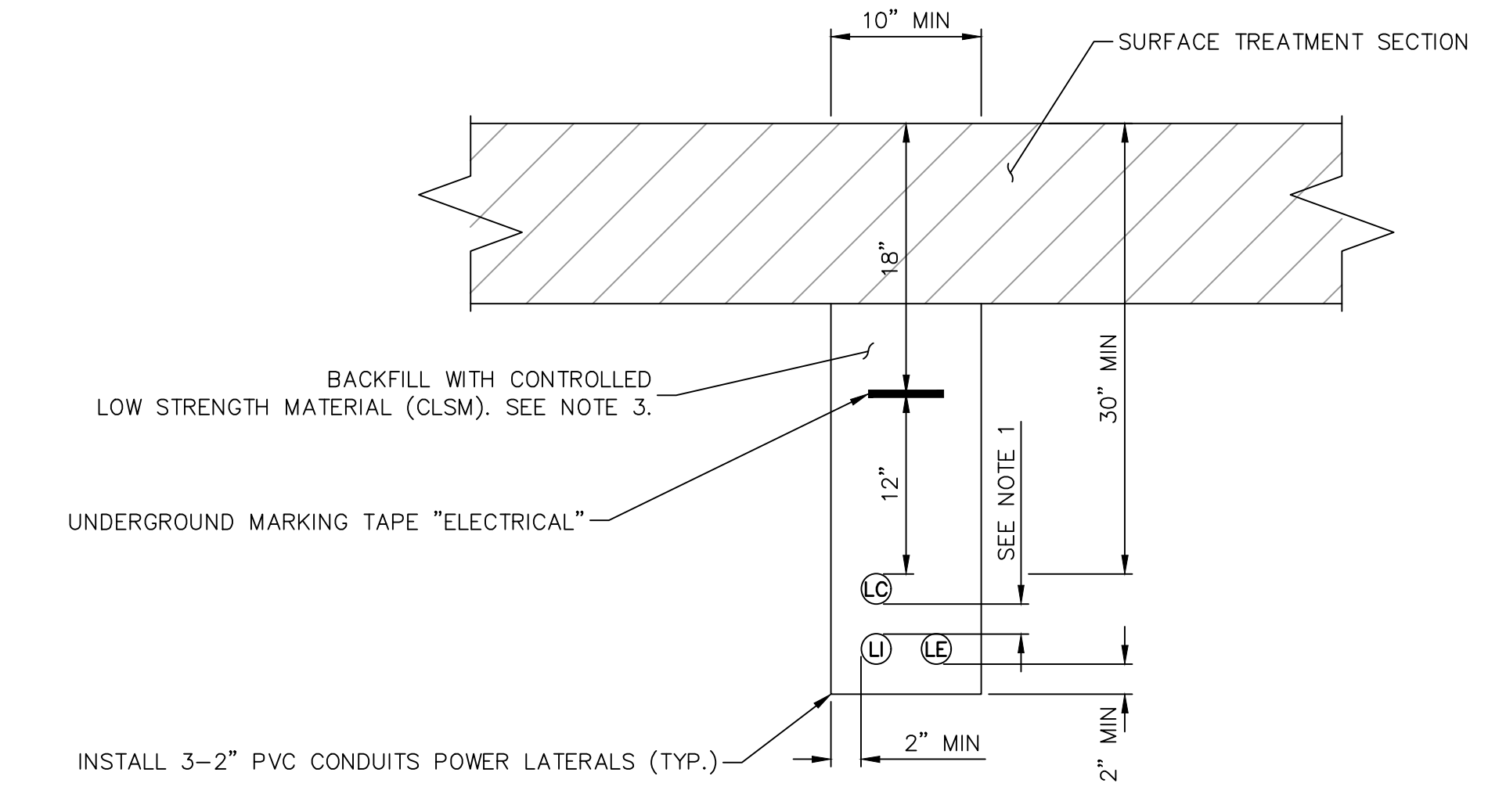
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OPEN TRENCH INSTALLATION**  
NOT TO SCALE

2  
CDT-1



**PRIMARY POWER SERVICE LATERAL 'B'  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

3  
CDT-1



**SECONDARY POWER LATERAL  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

4  
CDT-1

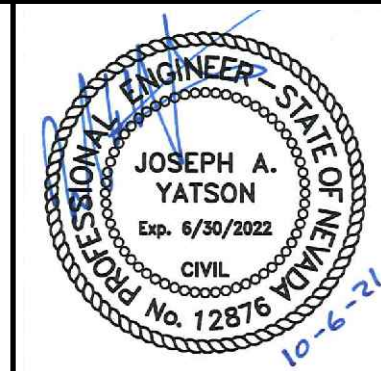
- OPEN TRENCH DETAIL NOTES:
1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.
  2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
  3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.
  4. PVC CONDUIT SHALL BE SCHEDULE 40.
- A = CARRIER, C = COUNTY, F = F.A.S.T., S = SPARE, P = PROVIDER, I = LIGHTING, LI = LIGHTING LATERAL, LC = COUNTY LATERAL, LE = CARRIER LATERAL

10-13-21 11:55:28 F:\Projects\500-897-LV-EF\DWG\Production\LV\_EF\_14\_ComEle\_DT\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



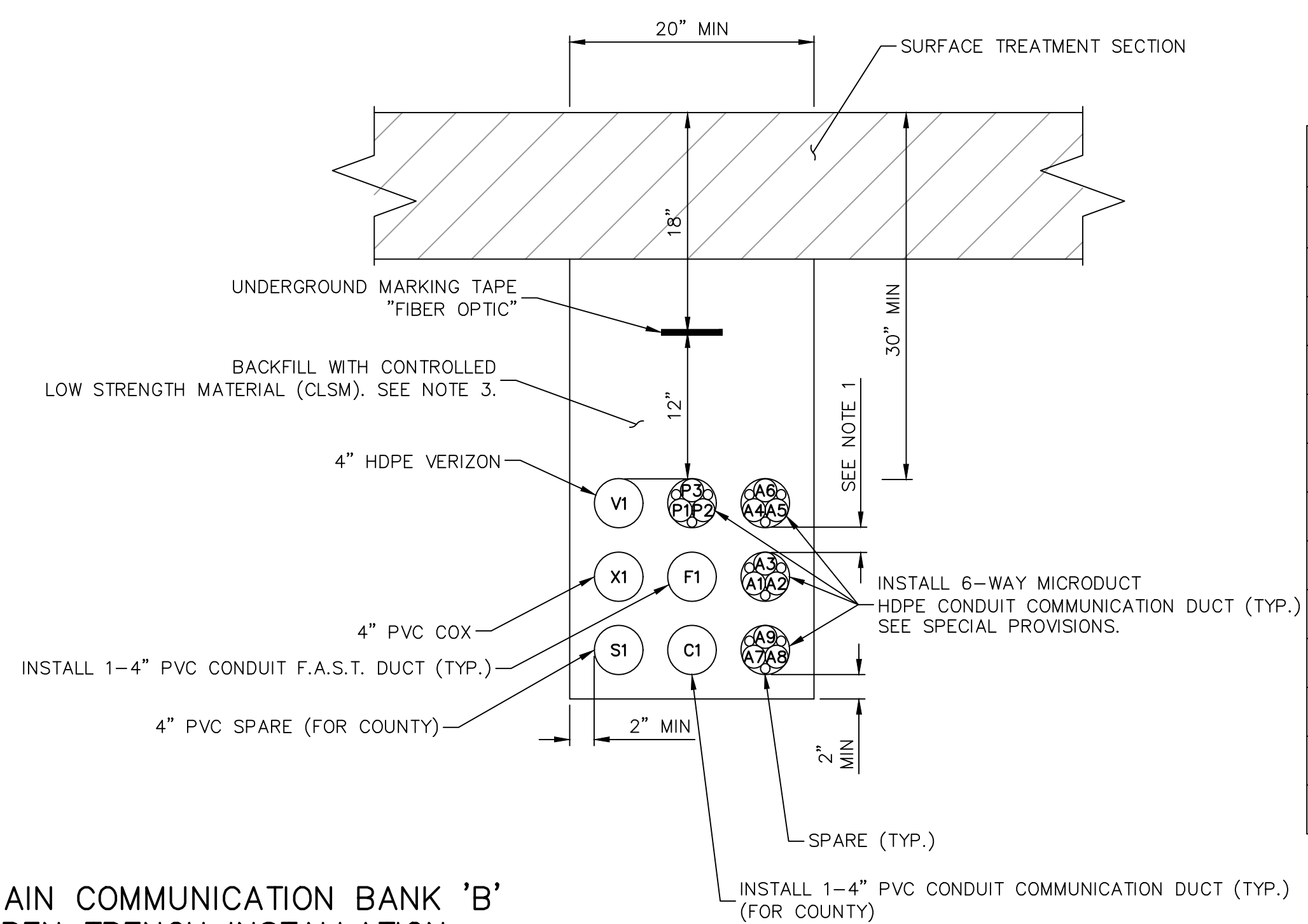
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**OPEN TRENCH INSTALLATION DETAILS**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



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

SCALE	DRAWING NO.
HORIZ: NONE	<b>CDT-1</b>
VERT: NONE	SHT. 130 OF 169
FIELD BOOK	L-2304

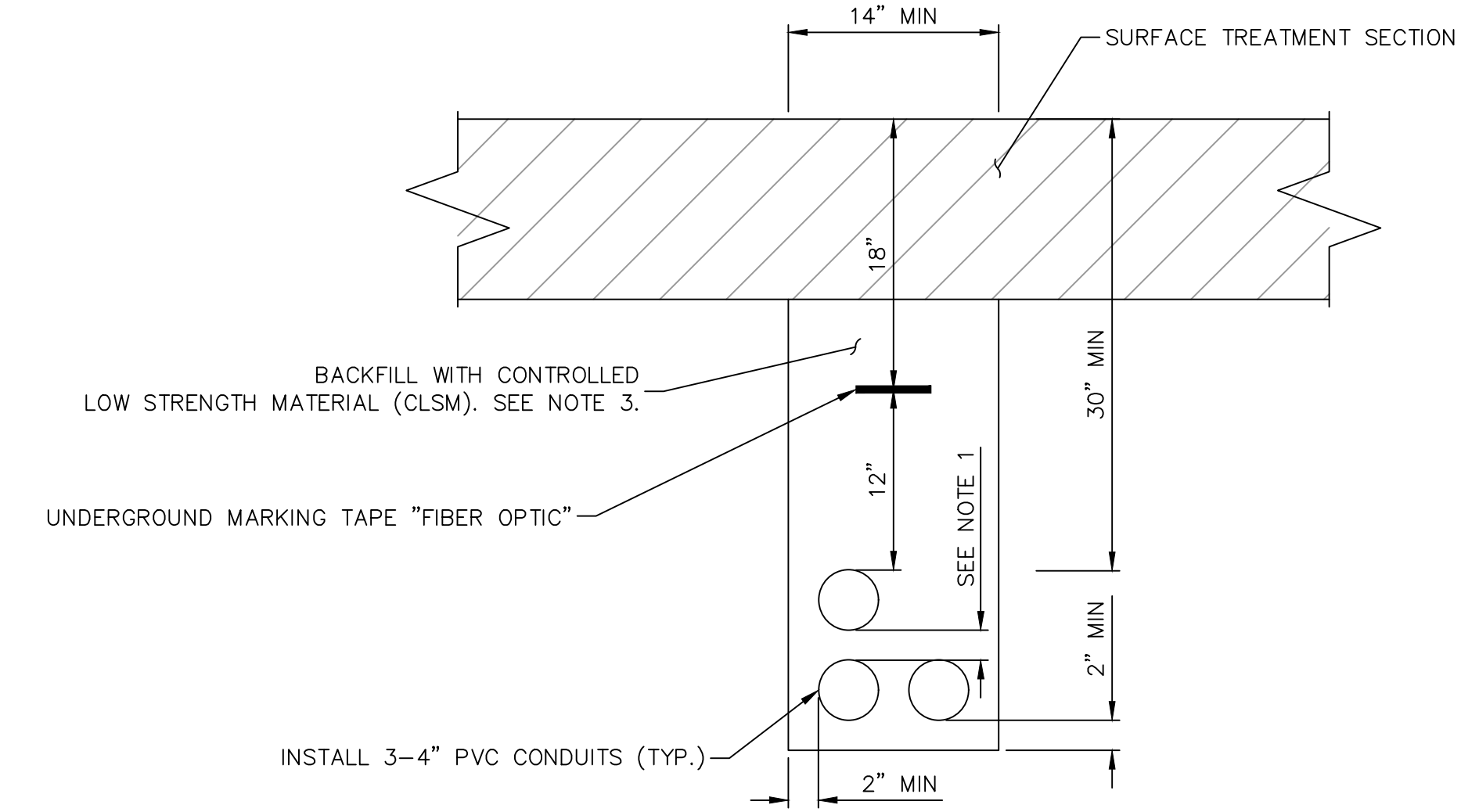




COMMUNICATION MICROCONDUIT COLOR DESIGNATION			
	OUTER SHEATH	INNER CONDUIT	DESIGNEE
A1	ORANGE	RED	VERIZON
A2	ORANGE	GREEN	LV. NET
A3	ORANGE	BLUE	COX
A4	ORANGE	YELLOW	ZAYO
A5	ORANGE	ORANGE	AT&T
A6	ORANGE	BROWN	EXTENET
A7	ORANGE	WHITE	MOBILITE
A8	ORANGE	GREY	CROWN
A9	ORANGE	BLACK	FUTURE
P1	GREY	BLUE	COUNTY
P2	GREY	GREEN	COUNTY
P3	GREY	ORANGE	COUNTY

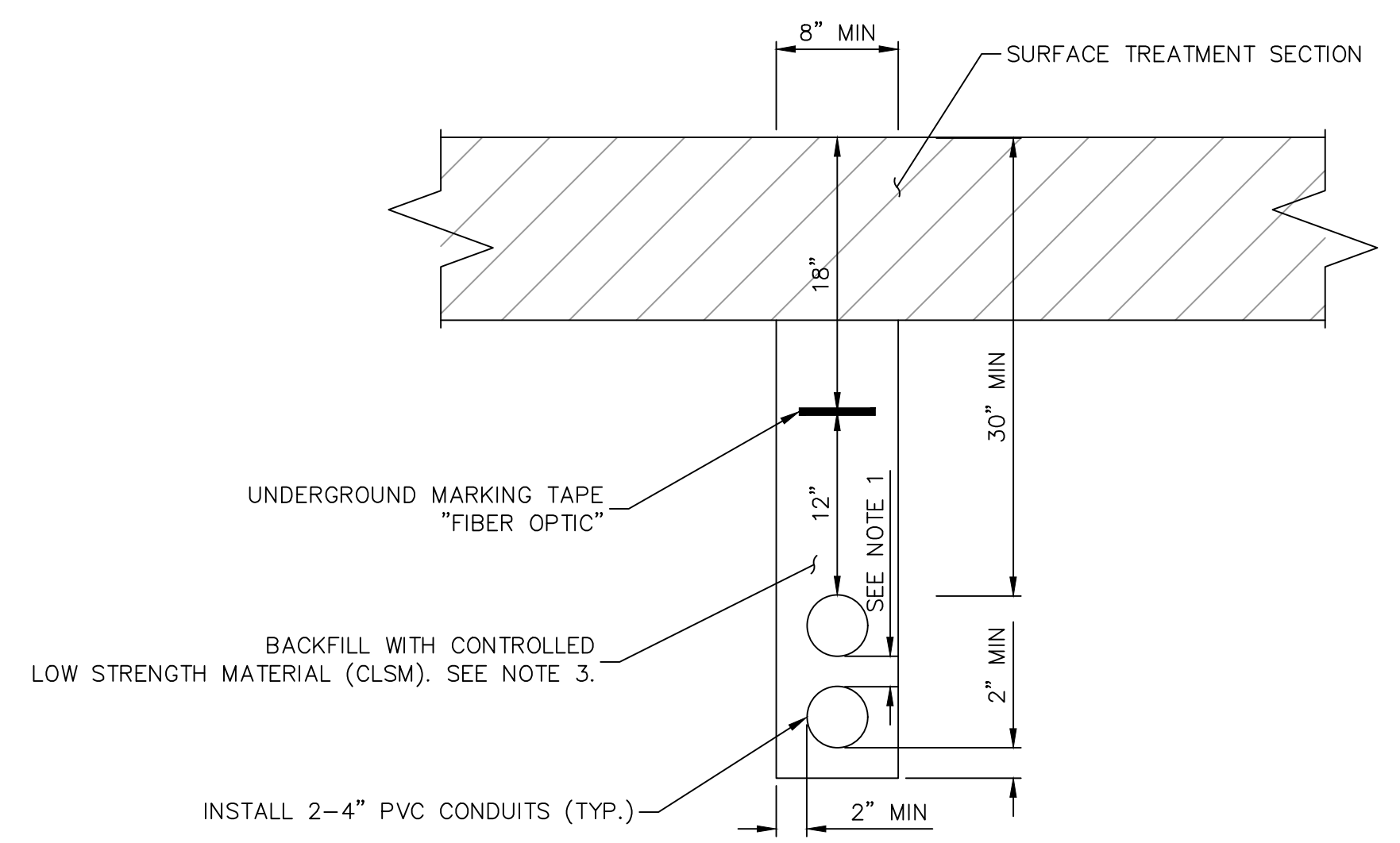
**MAIN COMMUNICATION BANK 'B'  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

1  
CDT-2



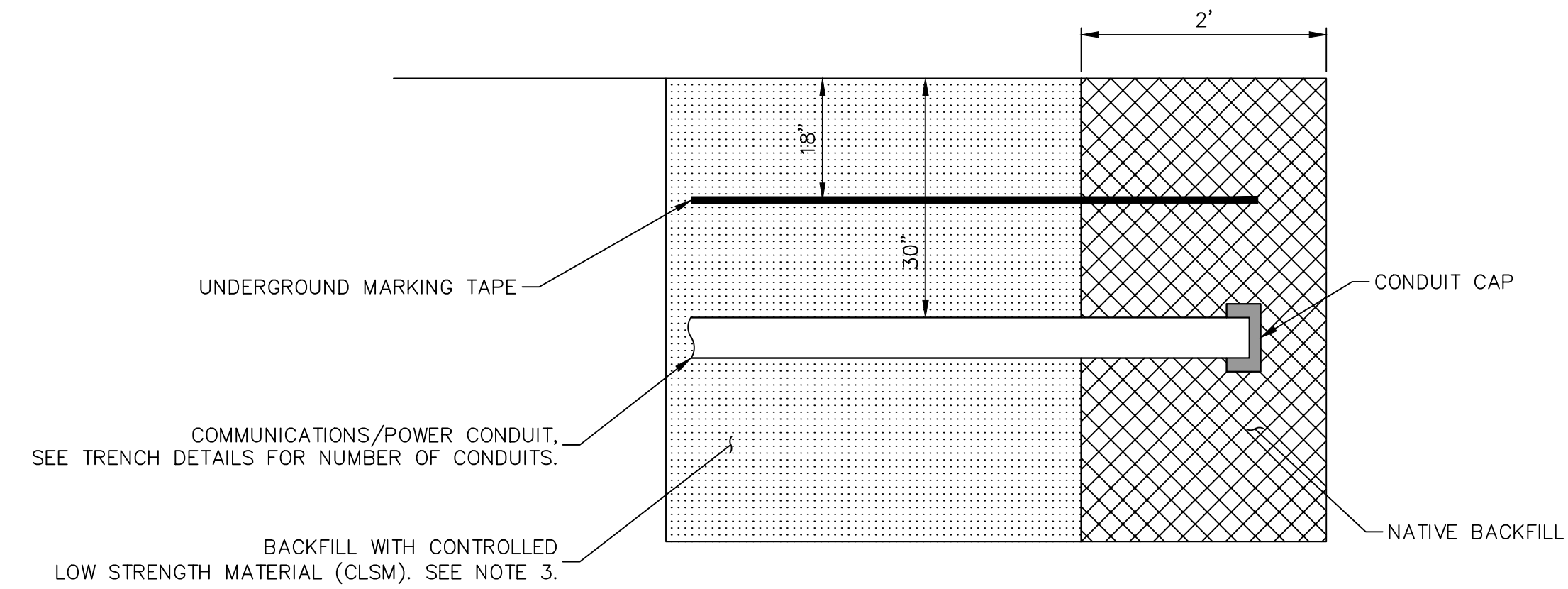
**PRIMARY COMMUNICATIONS LATERAL  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

2  
CDT-2



**SECONDARY COMMUNICATION LATERAL  
OPEN TRENCH INSTALLATION**  
NOT TO SCALE

3  
CDT-2



**CONDUIT TRENCH WITH CAP INSTALLATION**  
NOT TO SCALE

4  
CDT-2

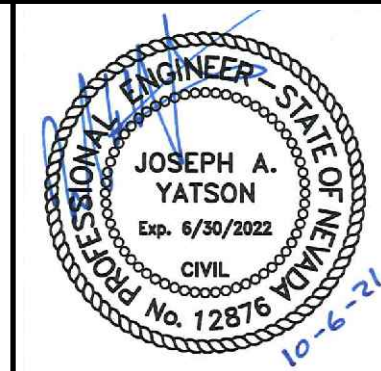
- OPEN TRENCH DETAIL NOTES:
1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.
  2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
  3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.
  4. PVC CONDUIT SHALL BE SCHEDULE 40.
- A = CARRIER, C = COUNTY, F = F.A.S.T., S = SPARE, P = PROVIDER, I = LIGHTING, X = COX, V = VERIZON

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REV. NO.	DATE	DESCRIPTION	APPROVED



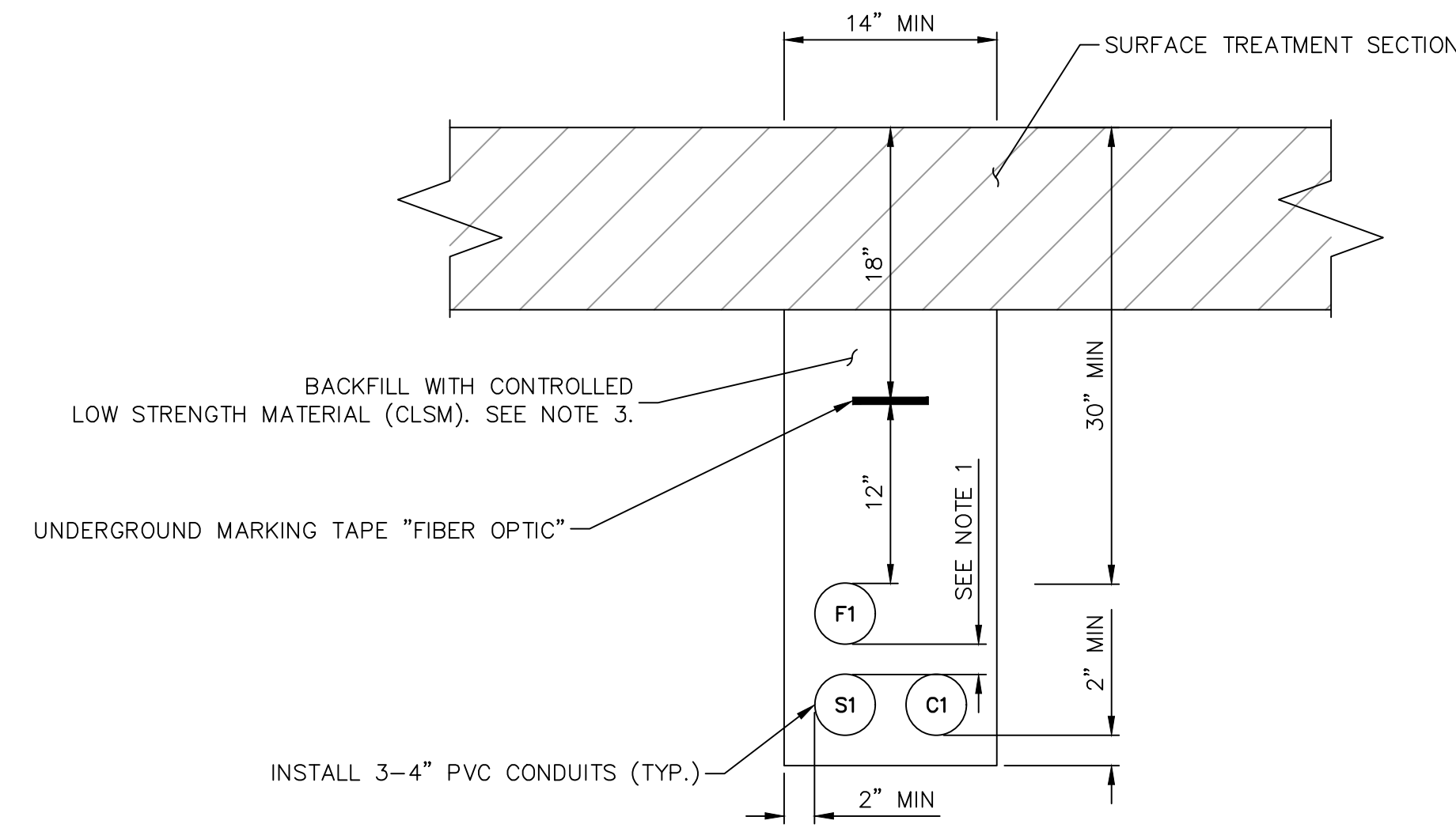
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**OPEN TRENCH INSTALLATION DETAILS**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



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

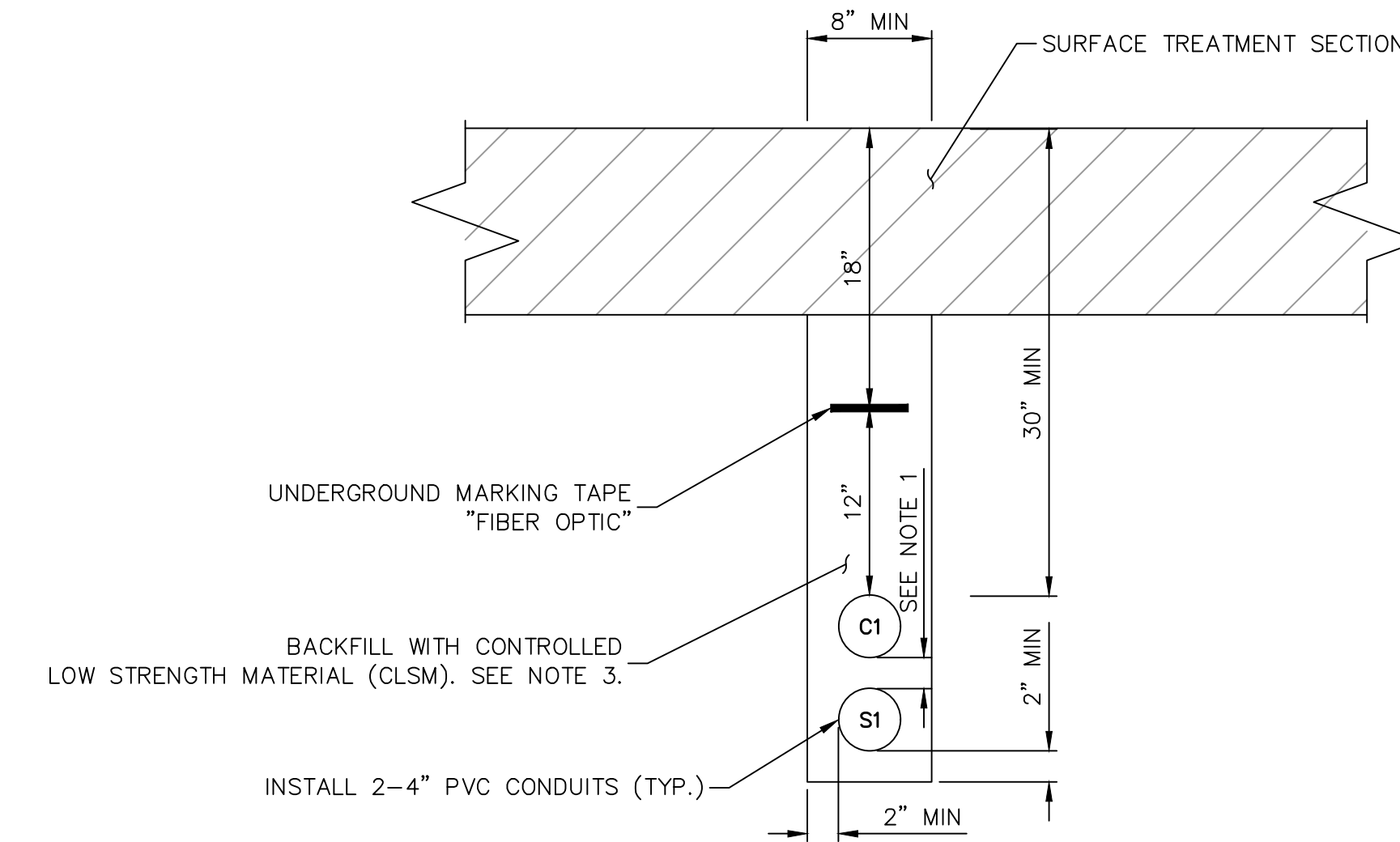
SCALE		DRAWING NO.
HORIZ:	NONE	CDT-2
VERT:	NONE	
FIELD BOOK		SHT. 131 OF 169
		L-2304





COUNTY/FAST LATERAL  
OPEN TRENCH INSTALLATION  
NOT TO SCALE

1  
CDT-3



COUNTY DUCT BANK  
OPEN TRENCH INSTALLATION  
NOT TO SCALE

2  
CDT-3

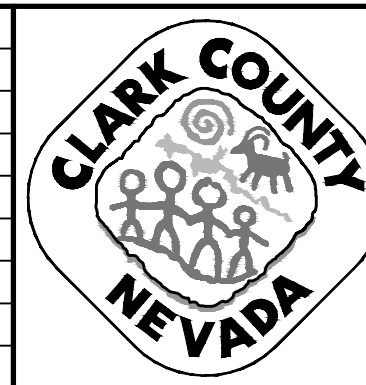
OPEN TRENCH DETAIL NOTES:

1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATION.
2. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
3. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.
4. PVC CONDUIT SHALL BE SCHEDULE 40.

C = COUNTY, F = F.A.S.T., S = SPARE, X = COX, V = VERIZON

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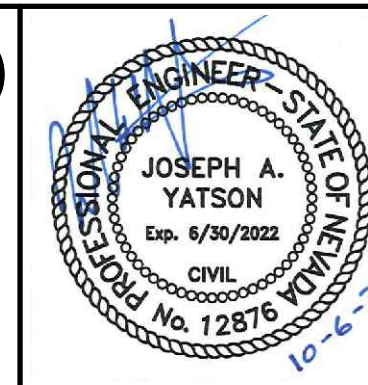
REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

OPEN TRENCH INSTALLATION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: JAY  
APPROVED BY: \_\_\_\_\_

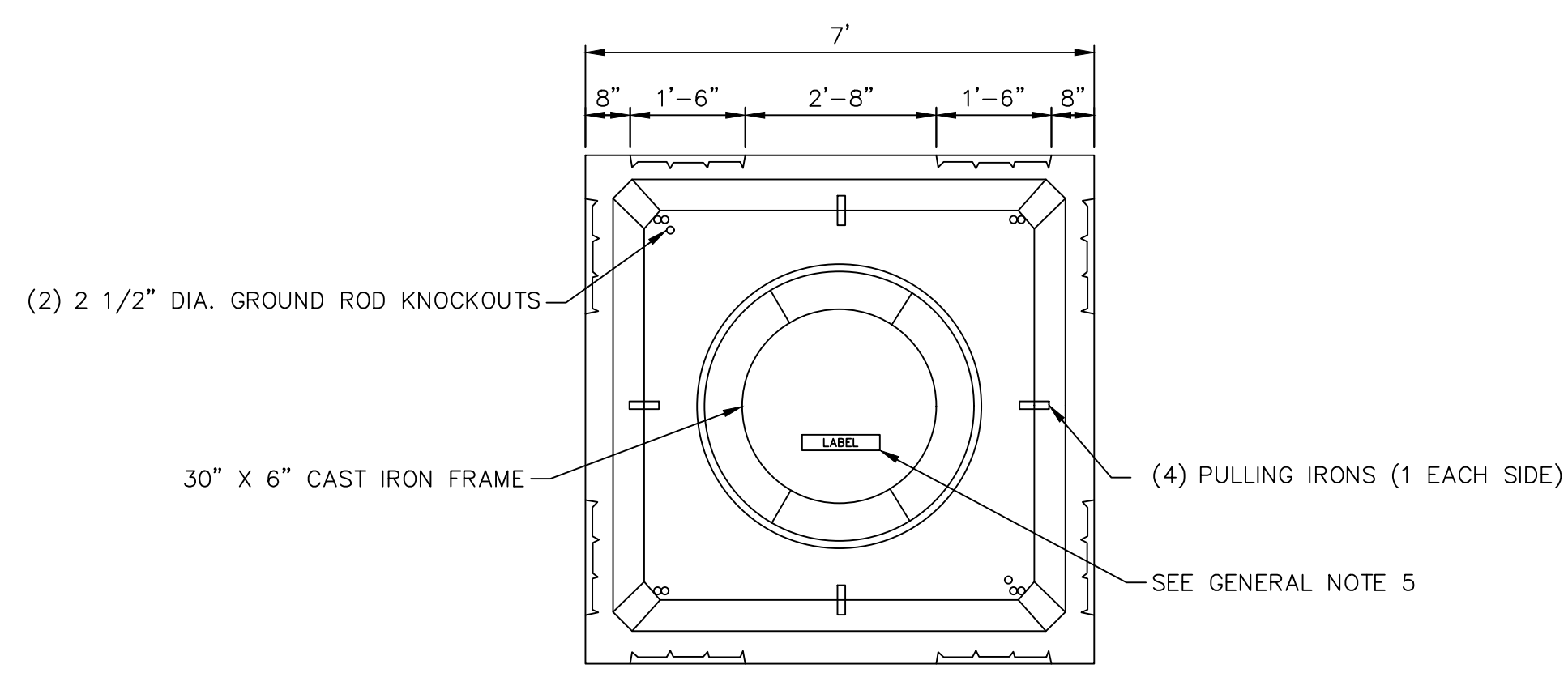
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	

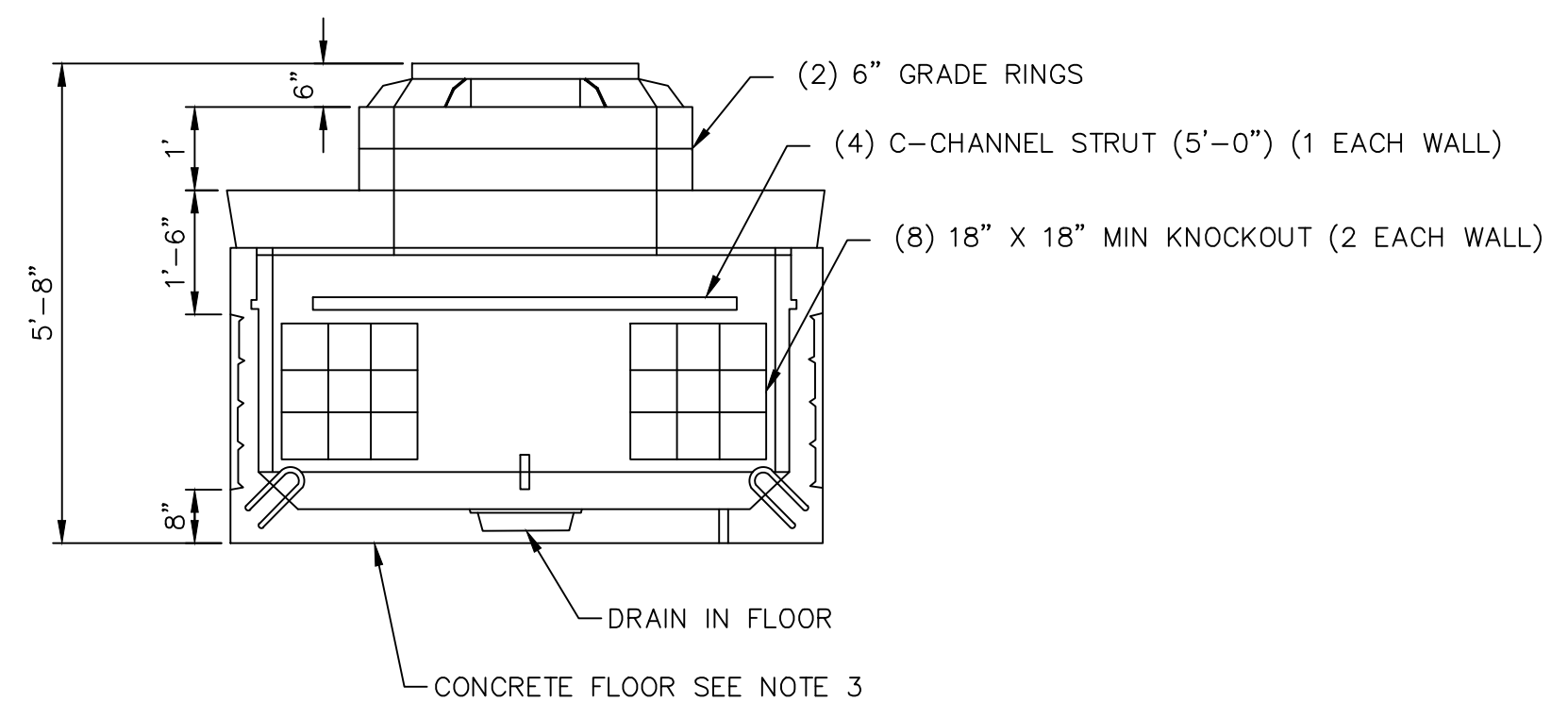
DRAWING NO.	
CDT-3	
SHT.	132 OF 169
L-2304	

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



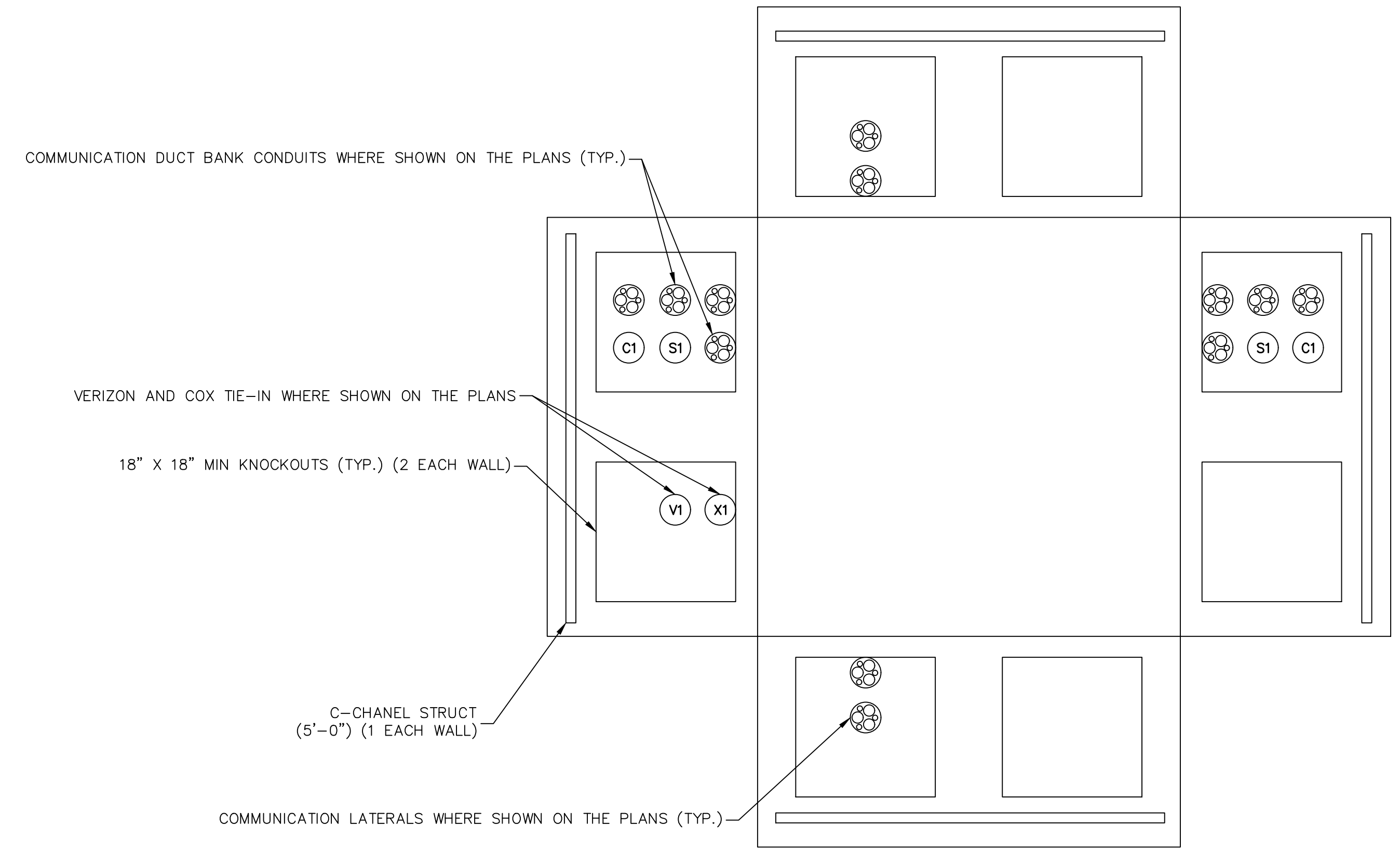


PLAN VIEW



SIDE VIEW

6' X 6' COMMUNICATION MANHOLE



COMMUNICATION MANHOLE DETAIL

GENERAL NOTES:

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

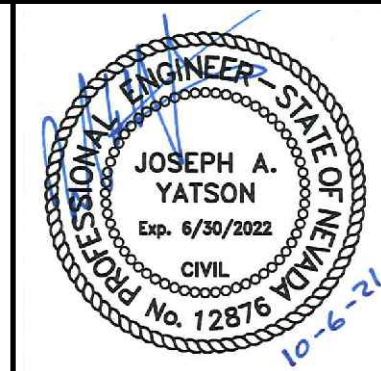
STRUCTURAL NOTES:

- CONCRETE: 28 DAY COMPRESSIVE STRENGTH  $f_c = 5000$  PSI
- REBAR: ASTM A-615 GRADE 60
- MESH: ASTM A-1064 GRADE 65
- DESIGN: ACI 316-11 BUILDING CODE  
ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE"
- LOADS: HS20-44 W/30% IMPACT PER AASHTO  
80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 6'-0" DEPTH  
SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE  
80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
- SOIL COVER: 0' TO 5' (MAX)

REV. NO.	DATE	DESCRIPTION	APPROVED



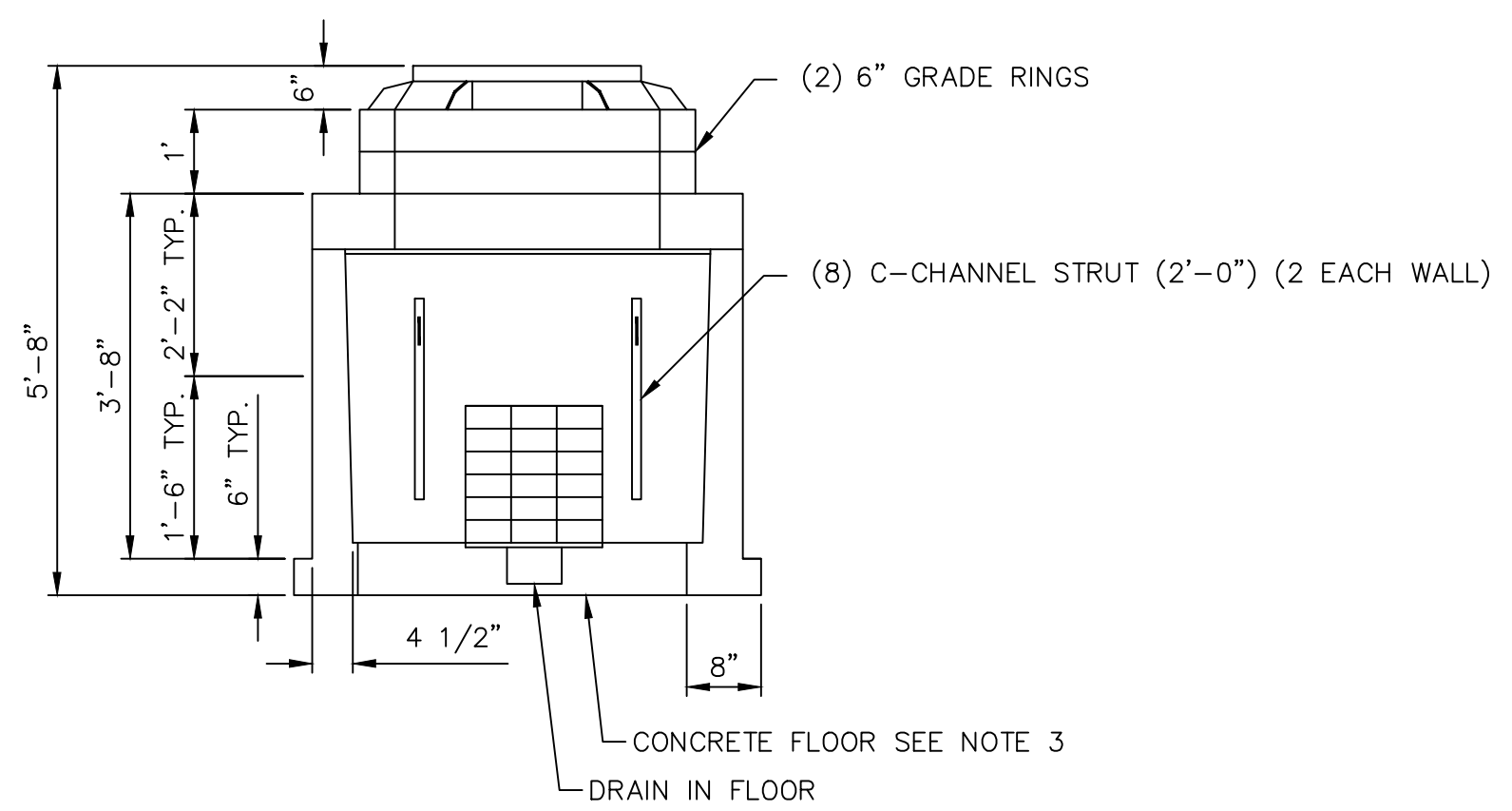
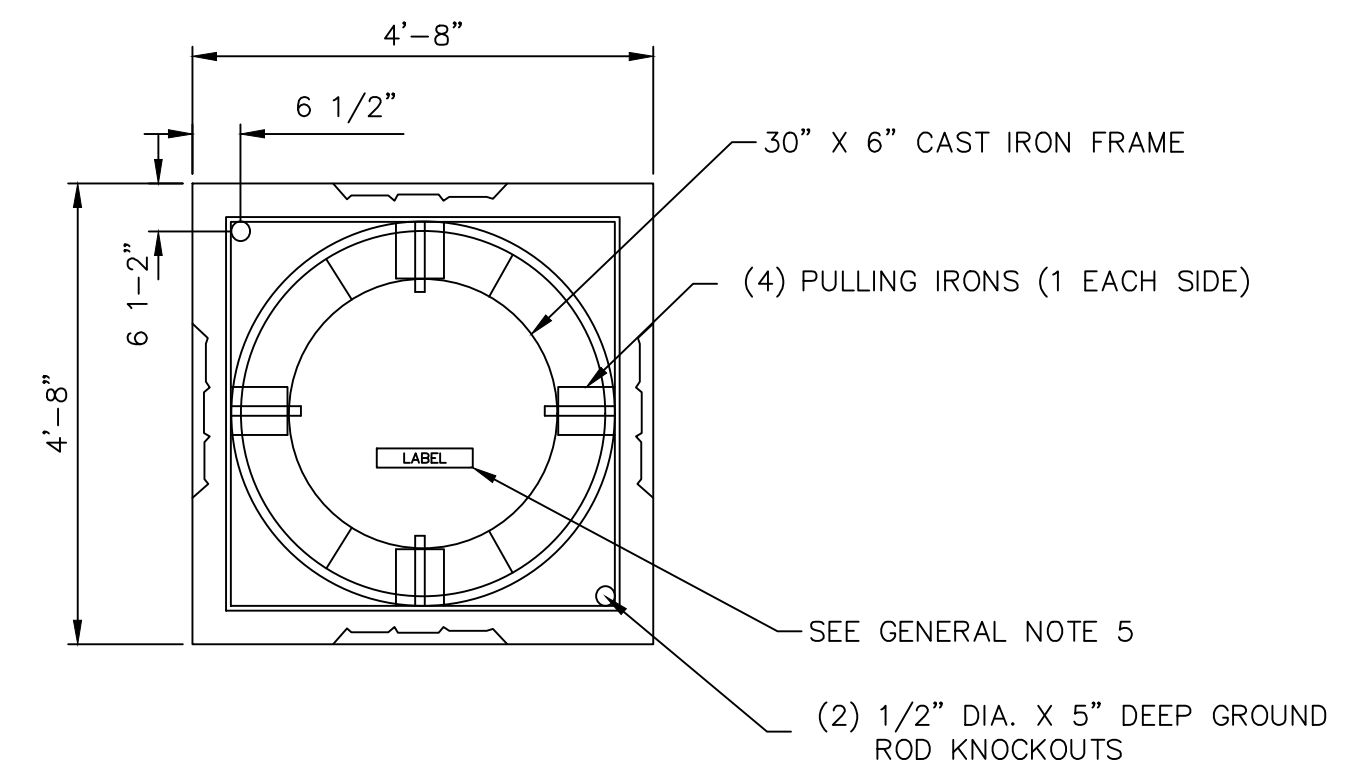
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**6'X6' COMMUNICATION MANHOLE DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

SCALE	DRAWING NO.
HORIZ: NONE	CDT-4
VERT: NONE	SHT. 133 OF 169
FIELD BOOK	L-2304



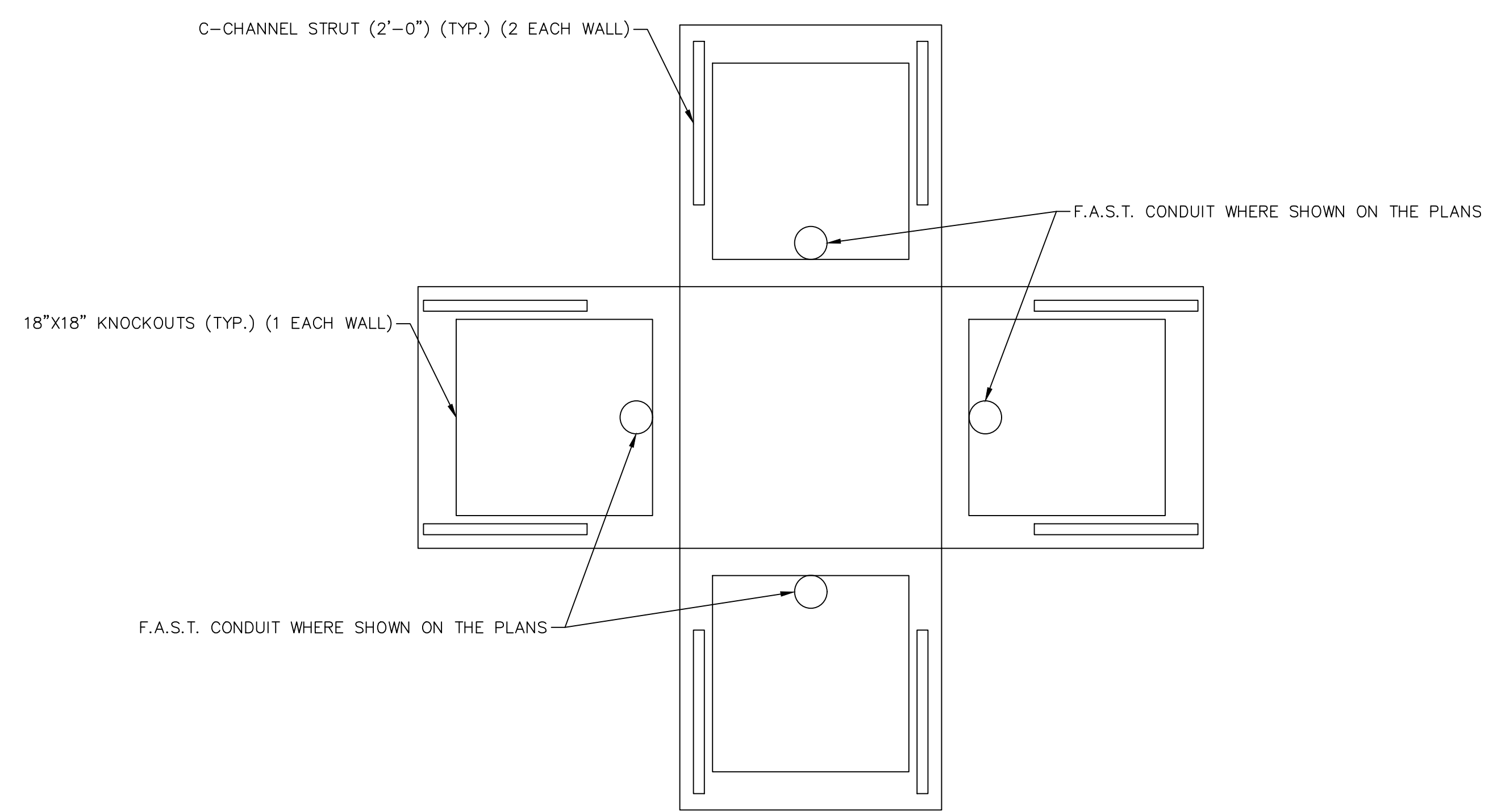


**STRUCTURAL NOTES:**

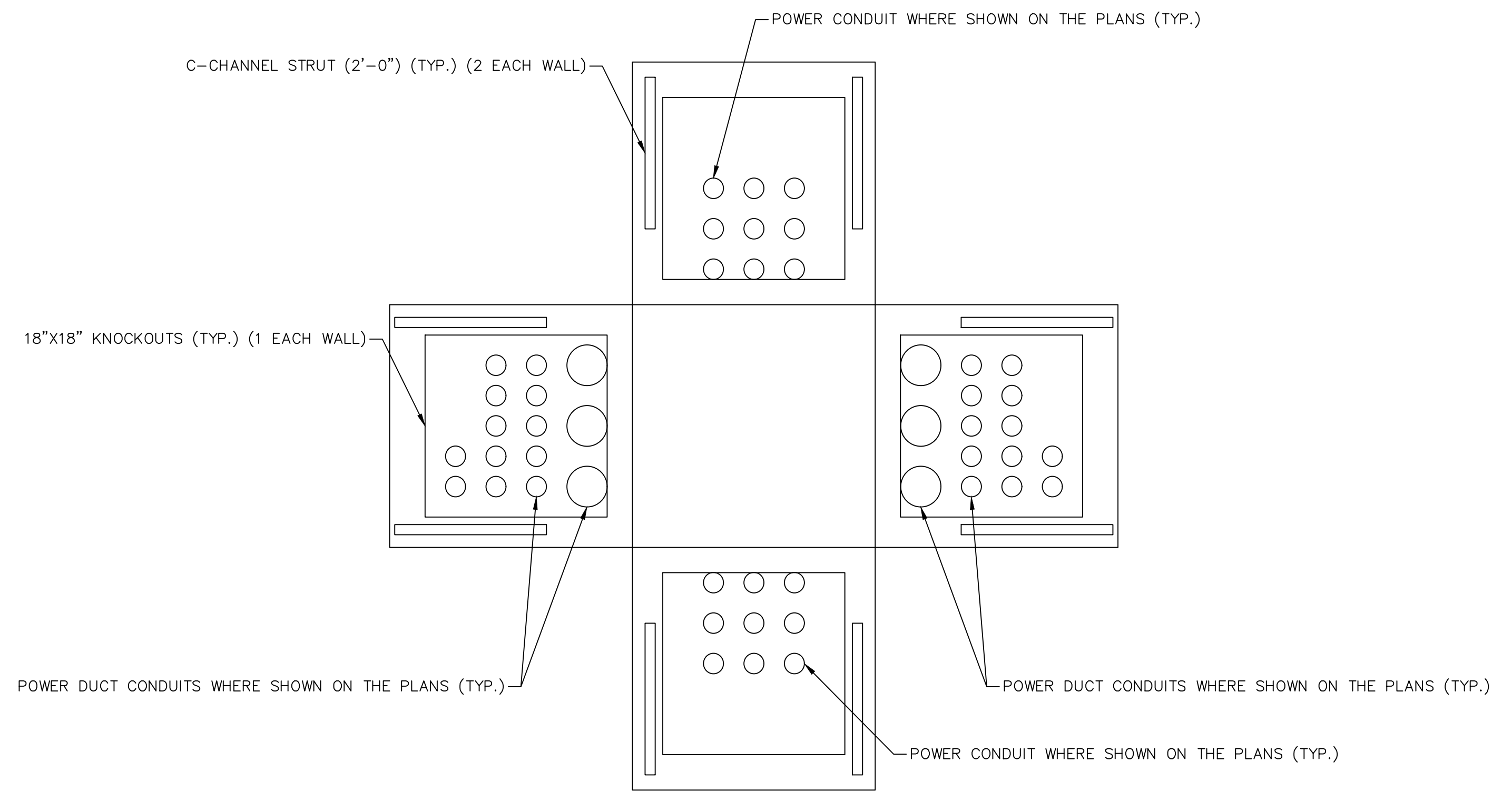
1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH  $f_c = 5000$  PSI
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-1064 GRADE 65
4. DESIGN: ACI 316-11 BUILDING CODE  
ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE"
5. LOADS: HS20-44 W/30% IMPACT PER AASHTO  
80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 6'-0" DEPTH  
SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE  
80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
6. SOIL COVER: 0' TO 5' (MAX)

**GENERAL NOTES:**

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



**F.A.S.T. MANHOLE DETAIL**

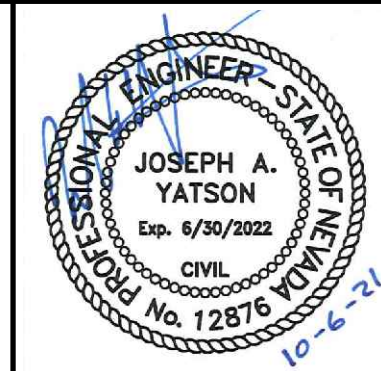


**POWER MANHOLE DETAIL**

REV. NO.	DATE	DESCRIPTION	APPROVED



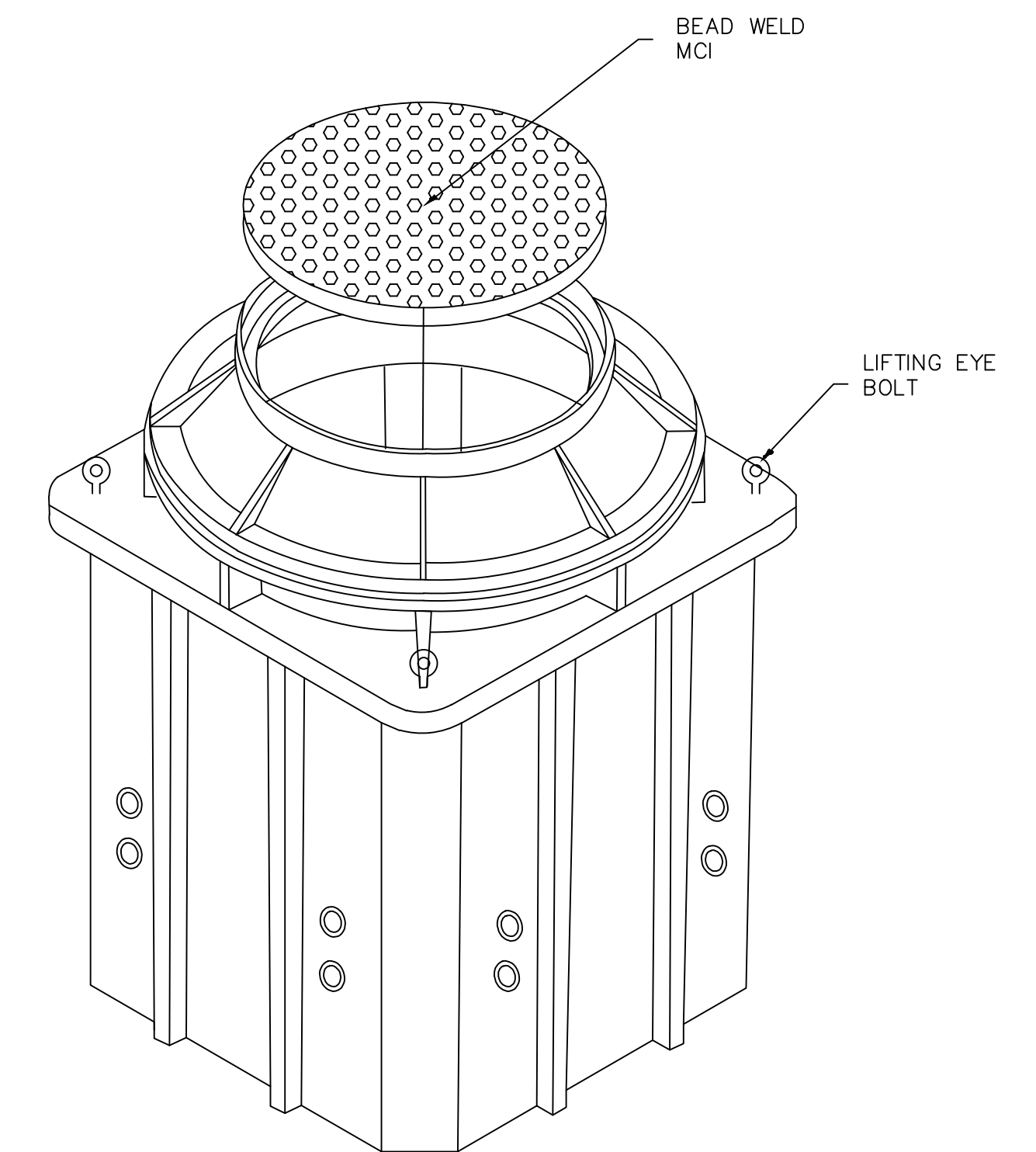
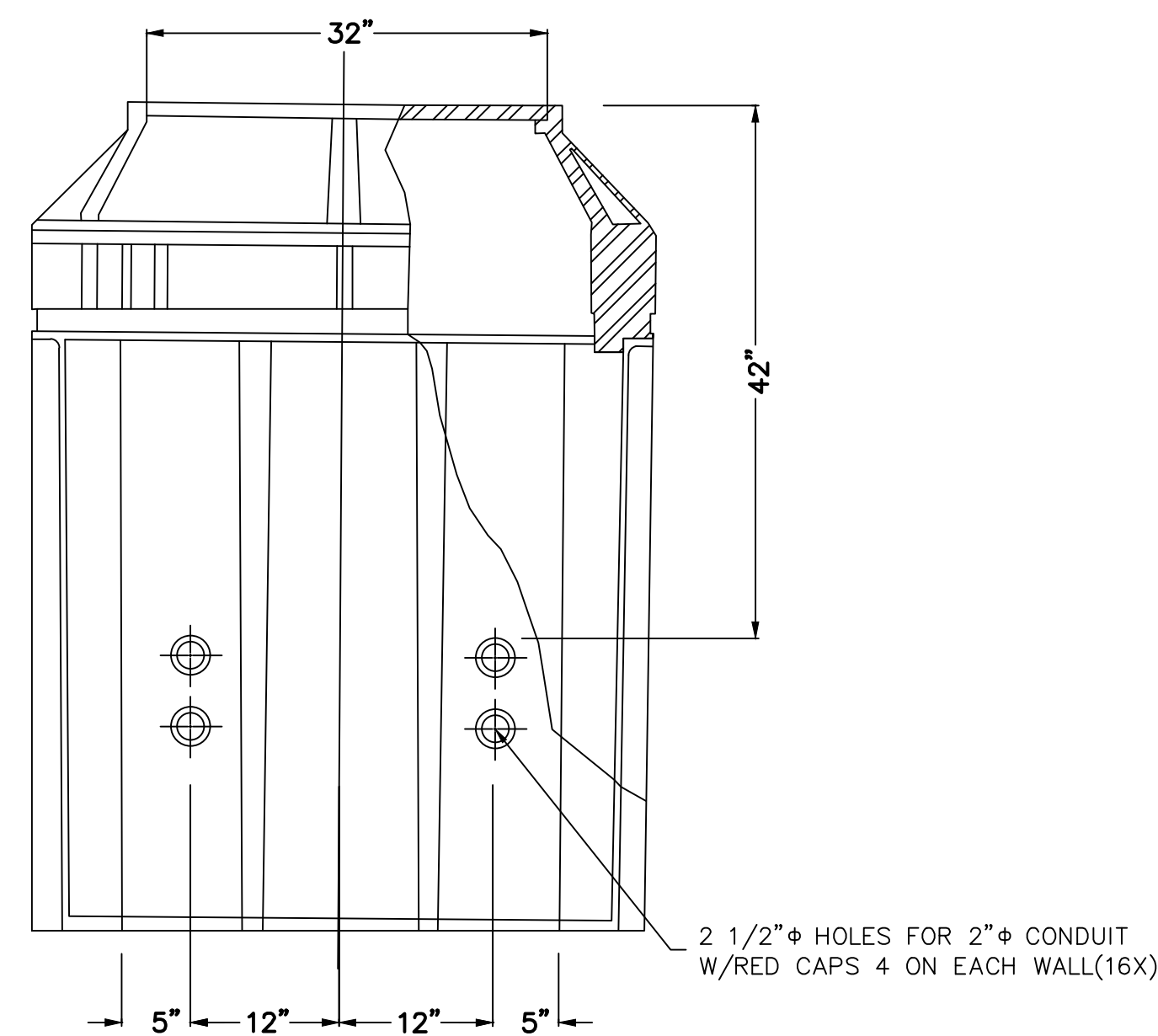
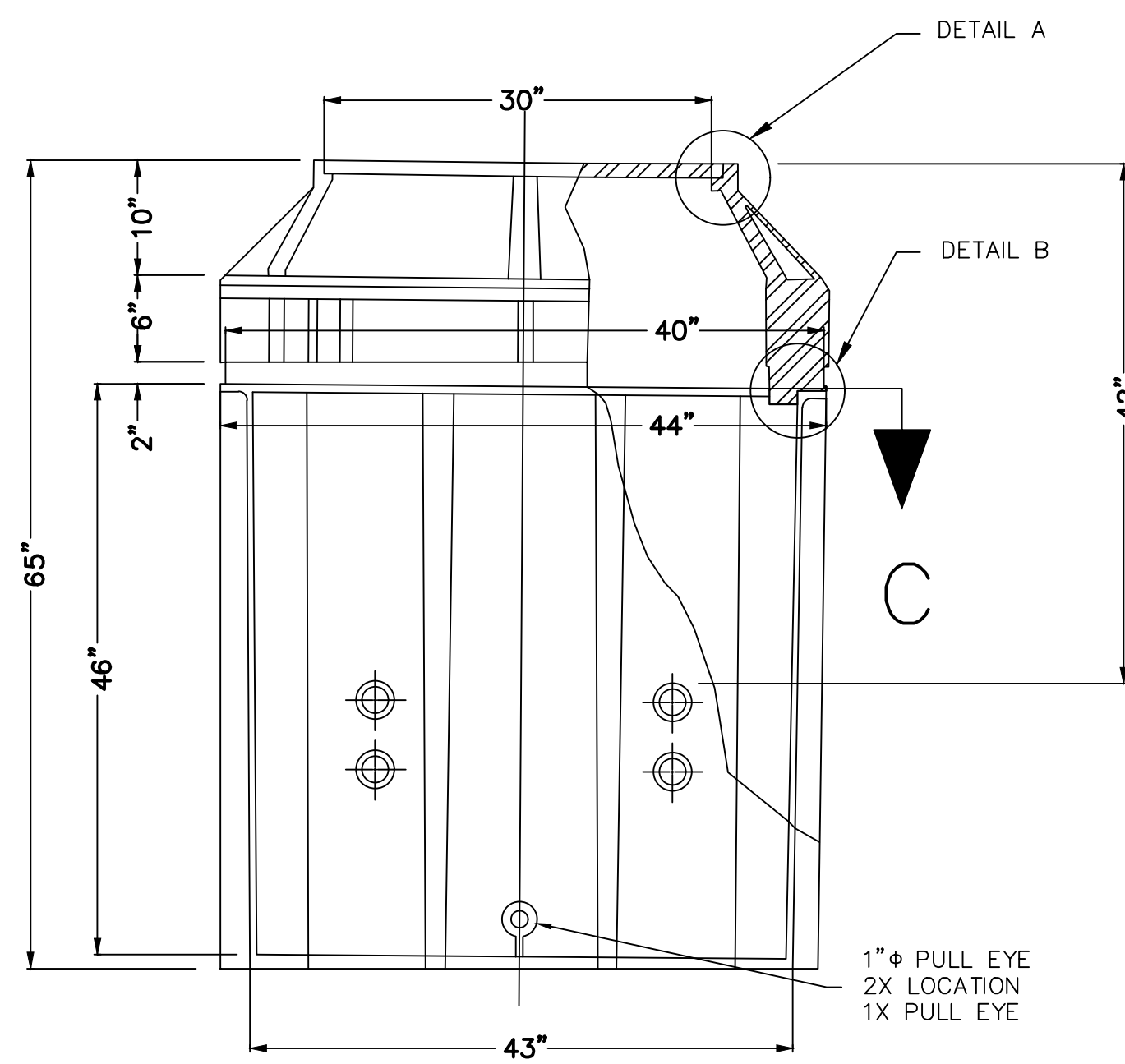
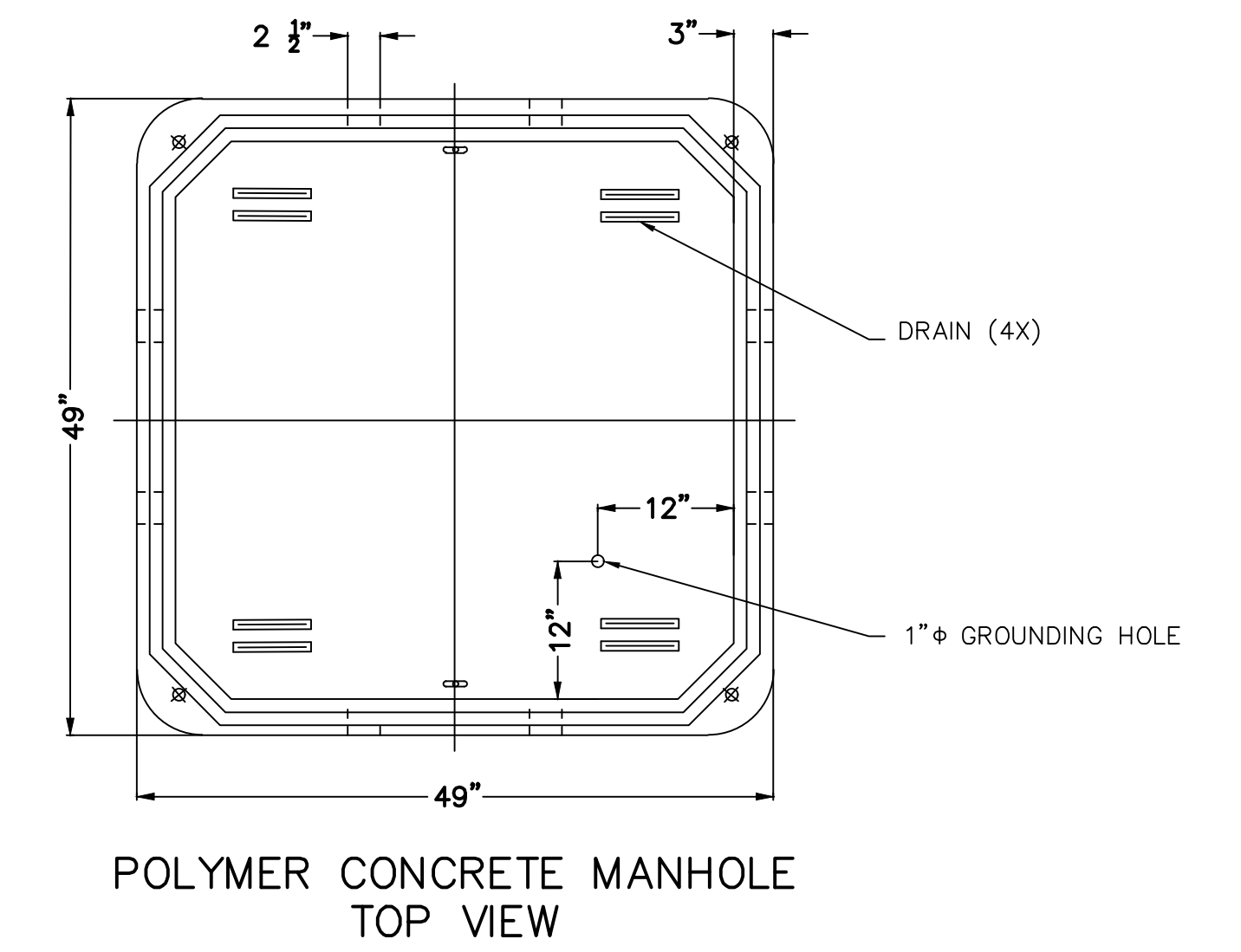
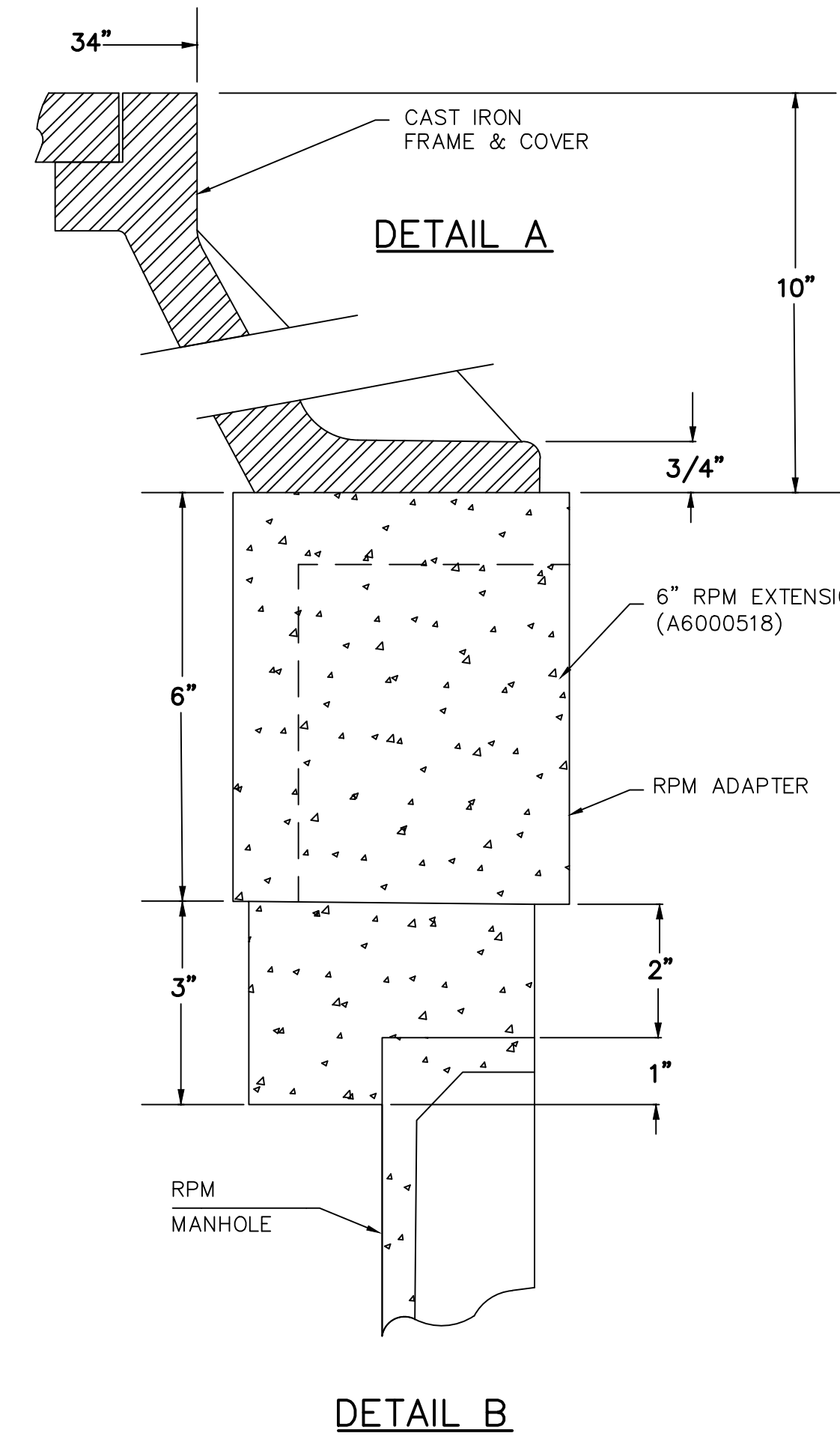
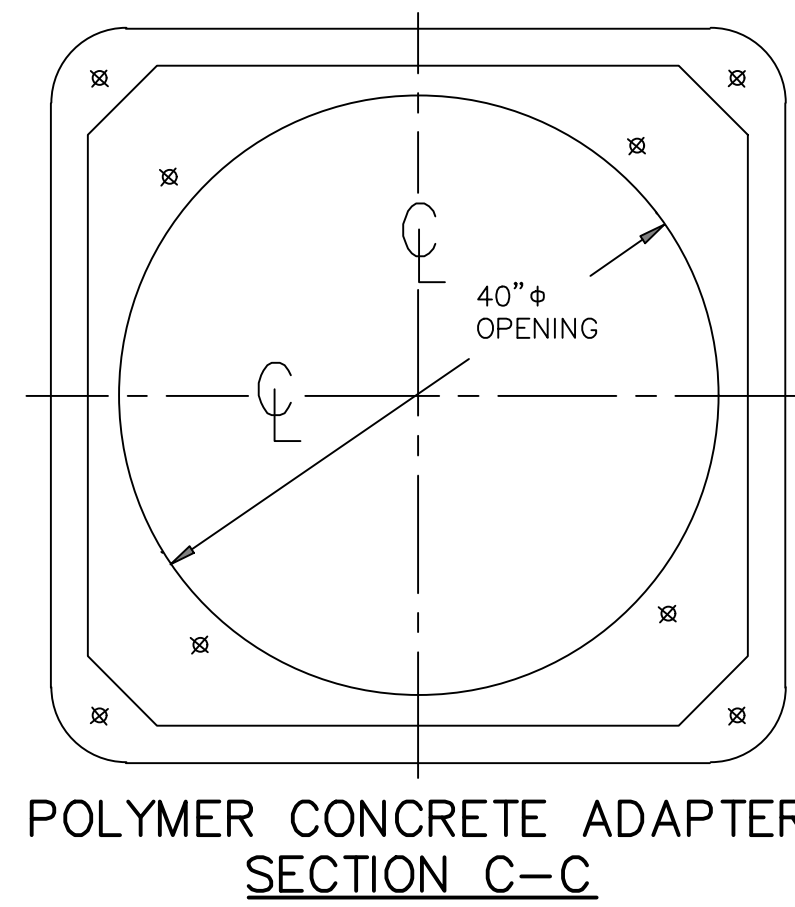
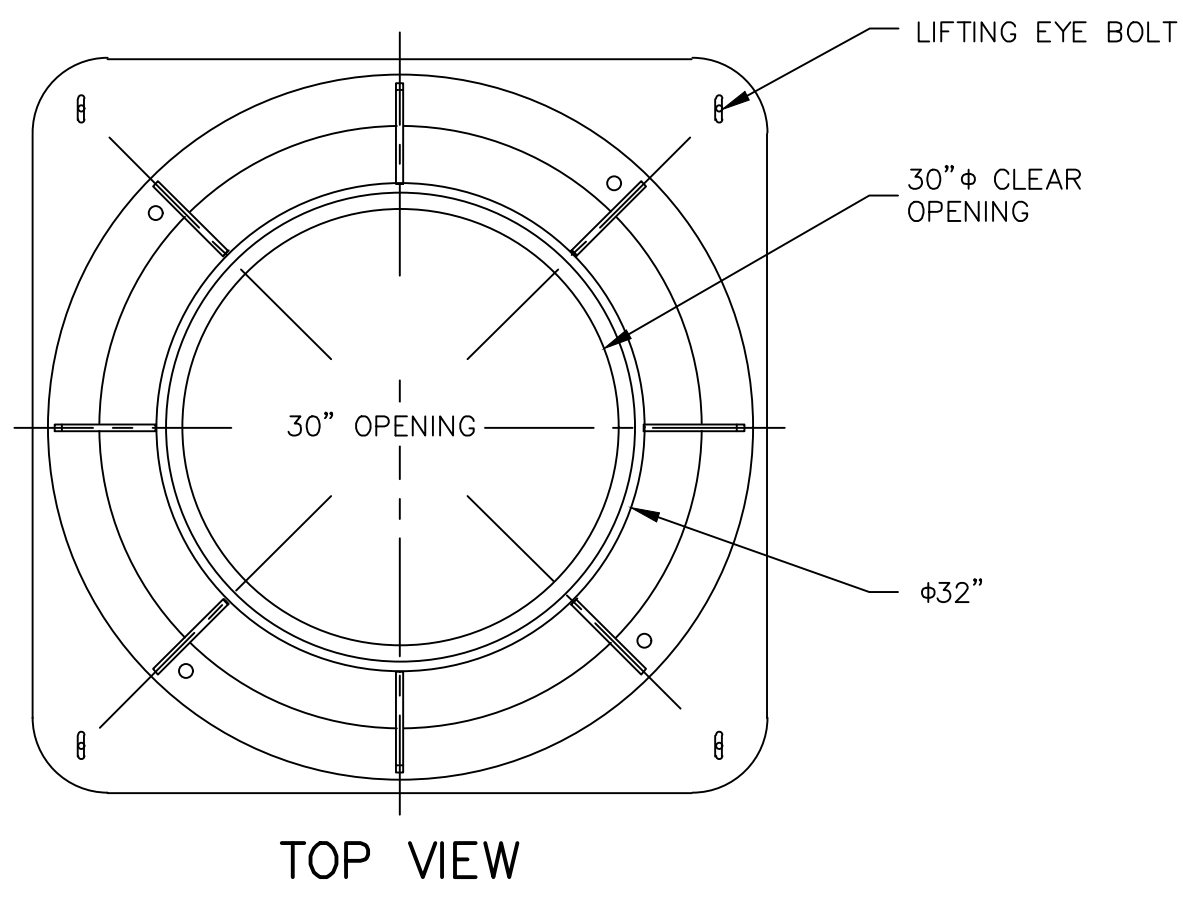
**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**4'X4' F.A.S.T. MAHOLE DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

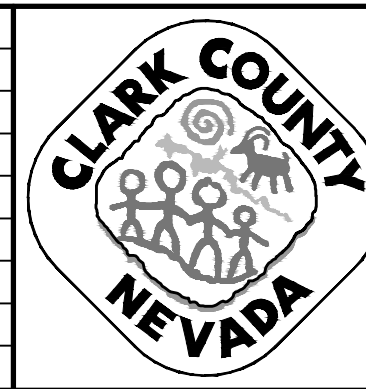
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HORIZ: NONE	<b>CDT-5</b>
VERT: NONE	
FIELD BOOK	SHT. 134 OF 169
	L-2304



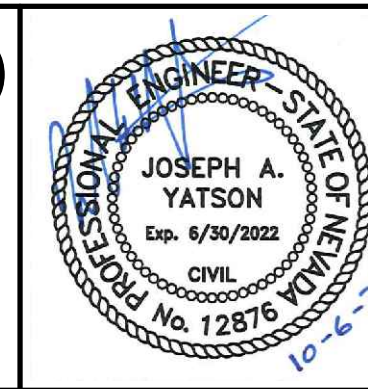


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REV. NO.	DATE	DESCRIPTION	APPROVED



LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD  
4'X4'X4' VERIZON MANHOLE DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

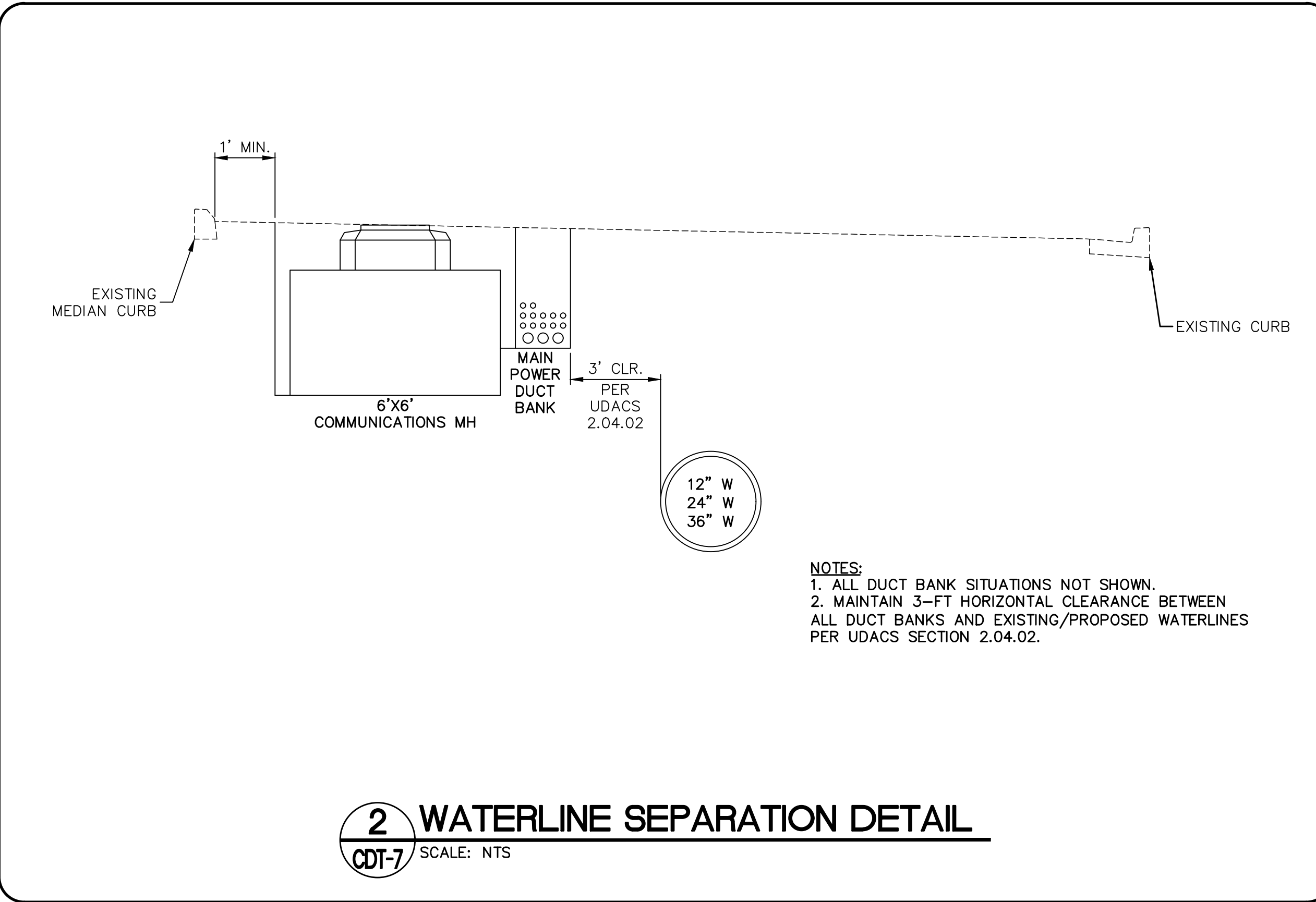


PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: JAY  
APPROVED BY:   
**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

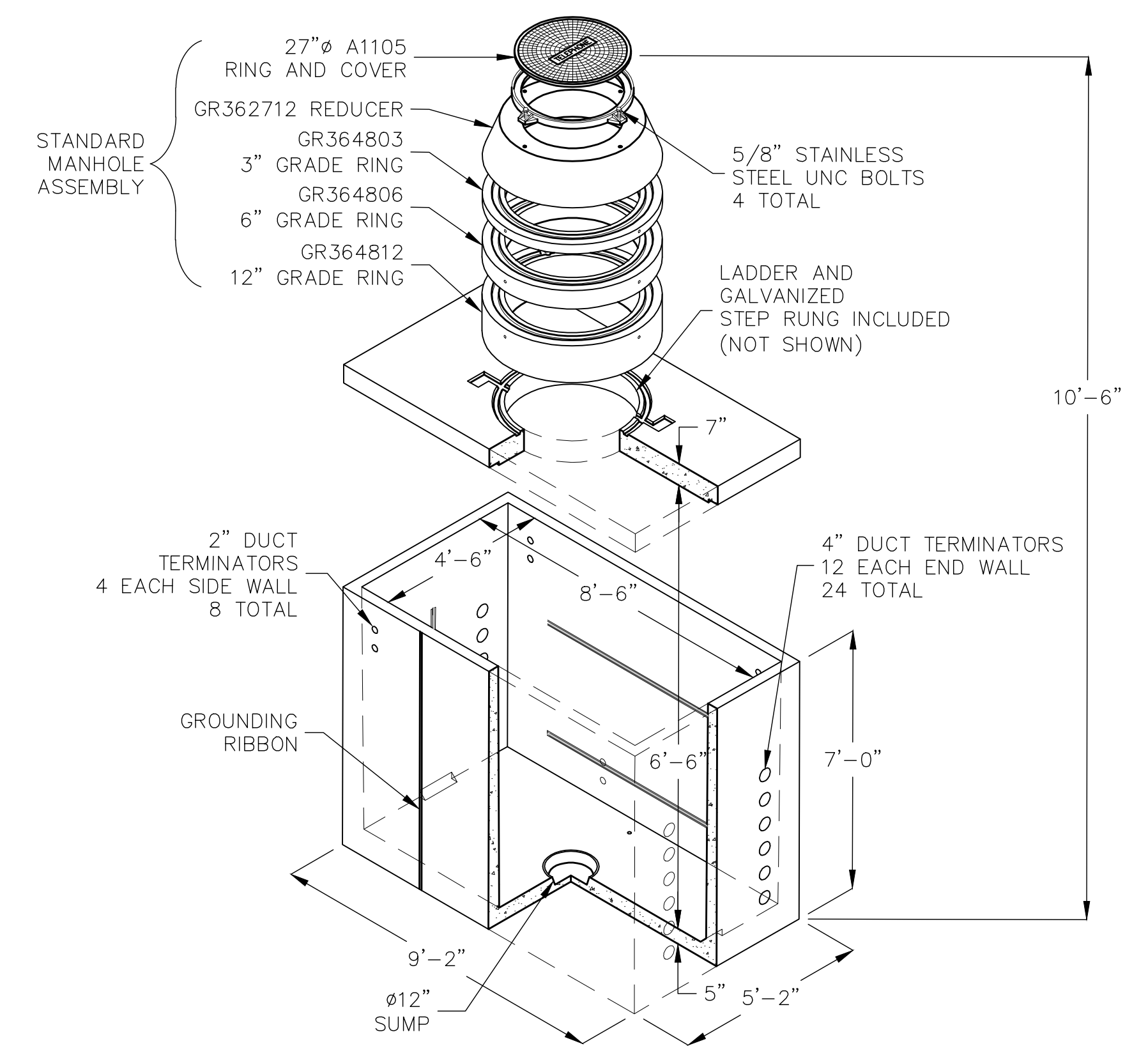
SCALE	DRAWING NO.
HORIZ: NONE	CDT-6
VERT: NONE	SHT. 135 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21





**2 WATERLINE SEPARATION DETAIL**  
CDT-7 SCALE: NTS



DESIGN LOAD: H-20 TRAFFIC WITH 13 INCHES TO 3 FEET SOIL COVER TO TOP OF COVER SLAB. WATER TABLE BELOW BASE OF VAULT.

ALL FEATURES PER CURRENT CENTURYLINK SPECIFICATIONS. CABLE RACKING PROVIDED WITH EACH MANHOLE FOR FIELD INSTALLATION.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

**1 TYPE 510 CATV MANHOLE DETAIL**  
CDT-7 SCALE: NTS

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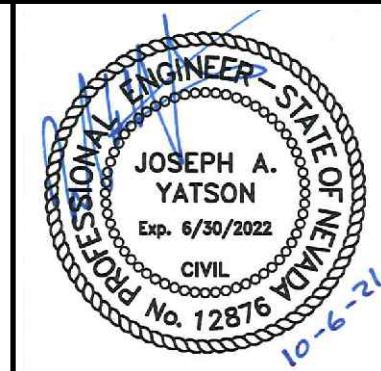
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

COX/MISC. DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



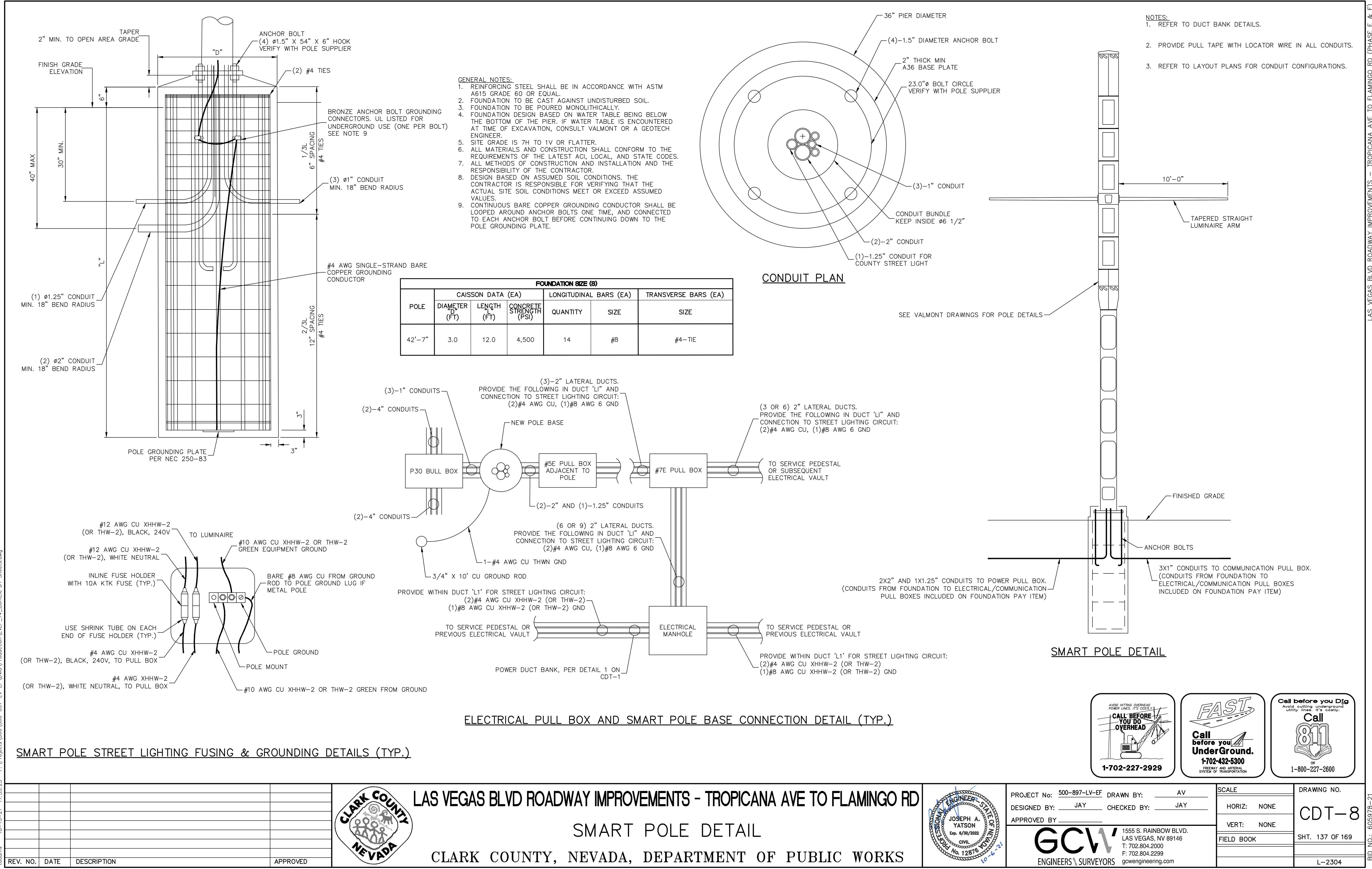
PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: JAY  
APPROVED BY: \_\_\_\_\_

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

SCALE	DRAWING NO.
HORIZ: NONE	CDT-7
VERT: NONE	SHT. 136 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603978-21

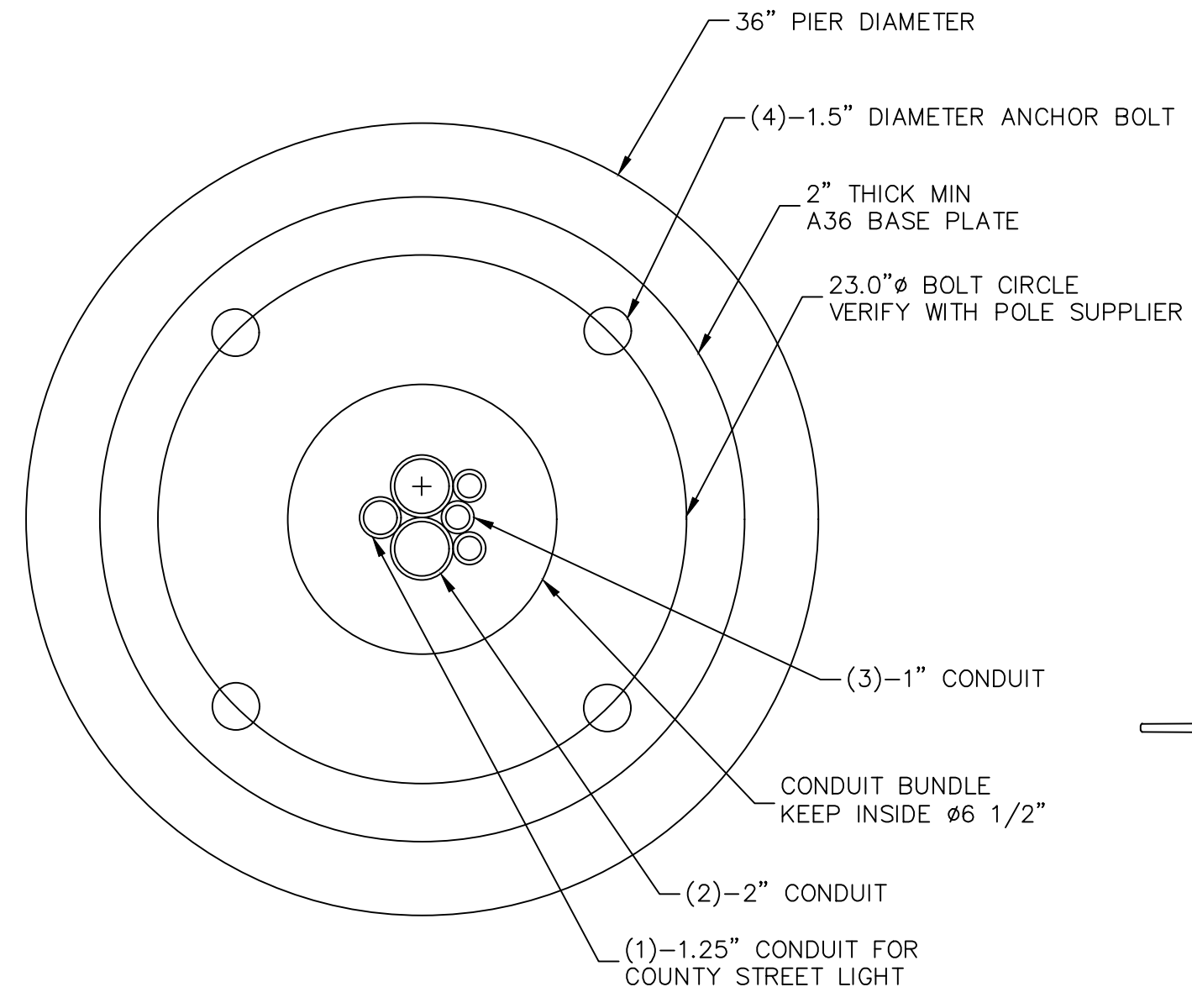
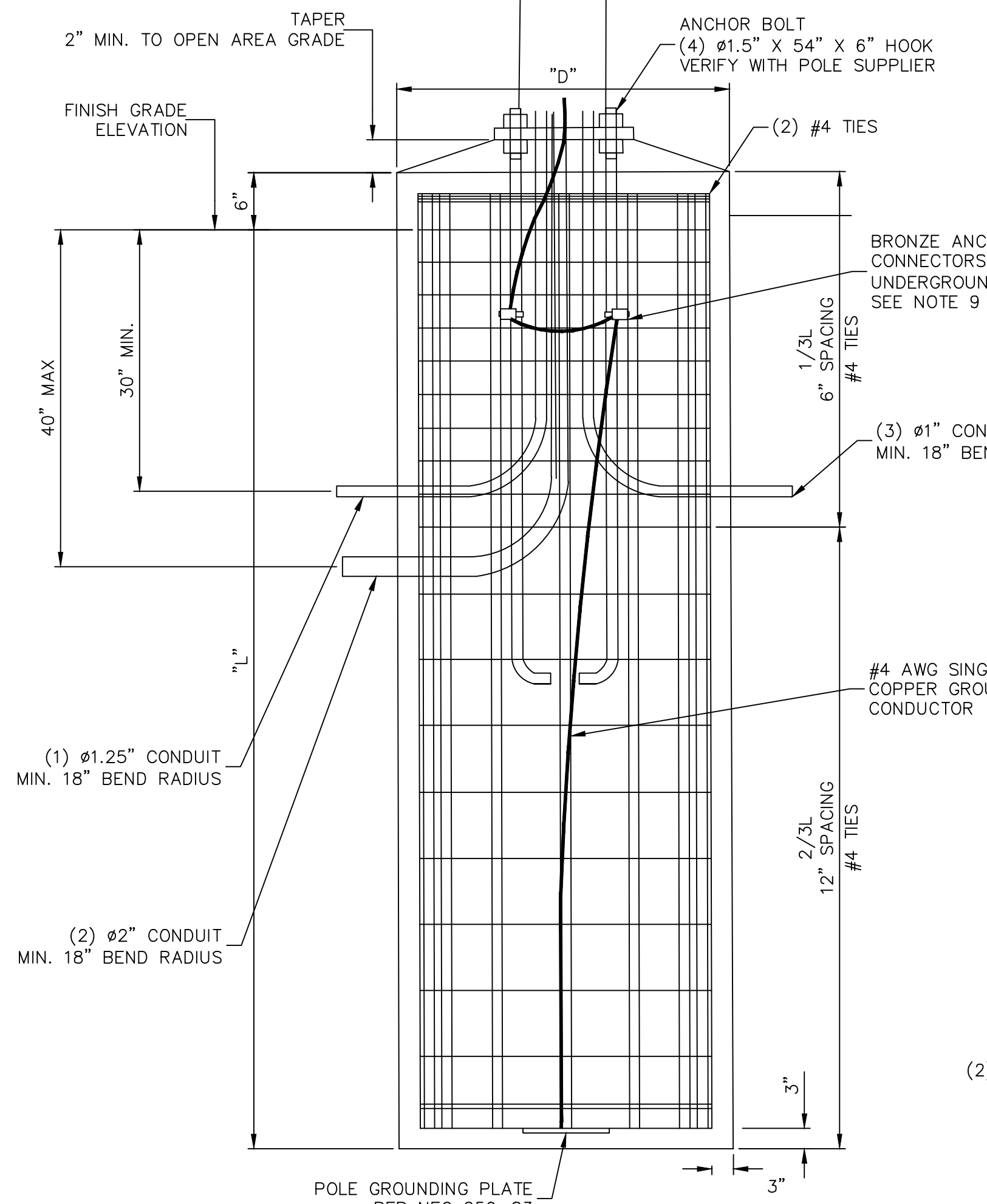




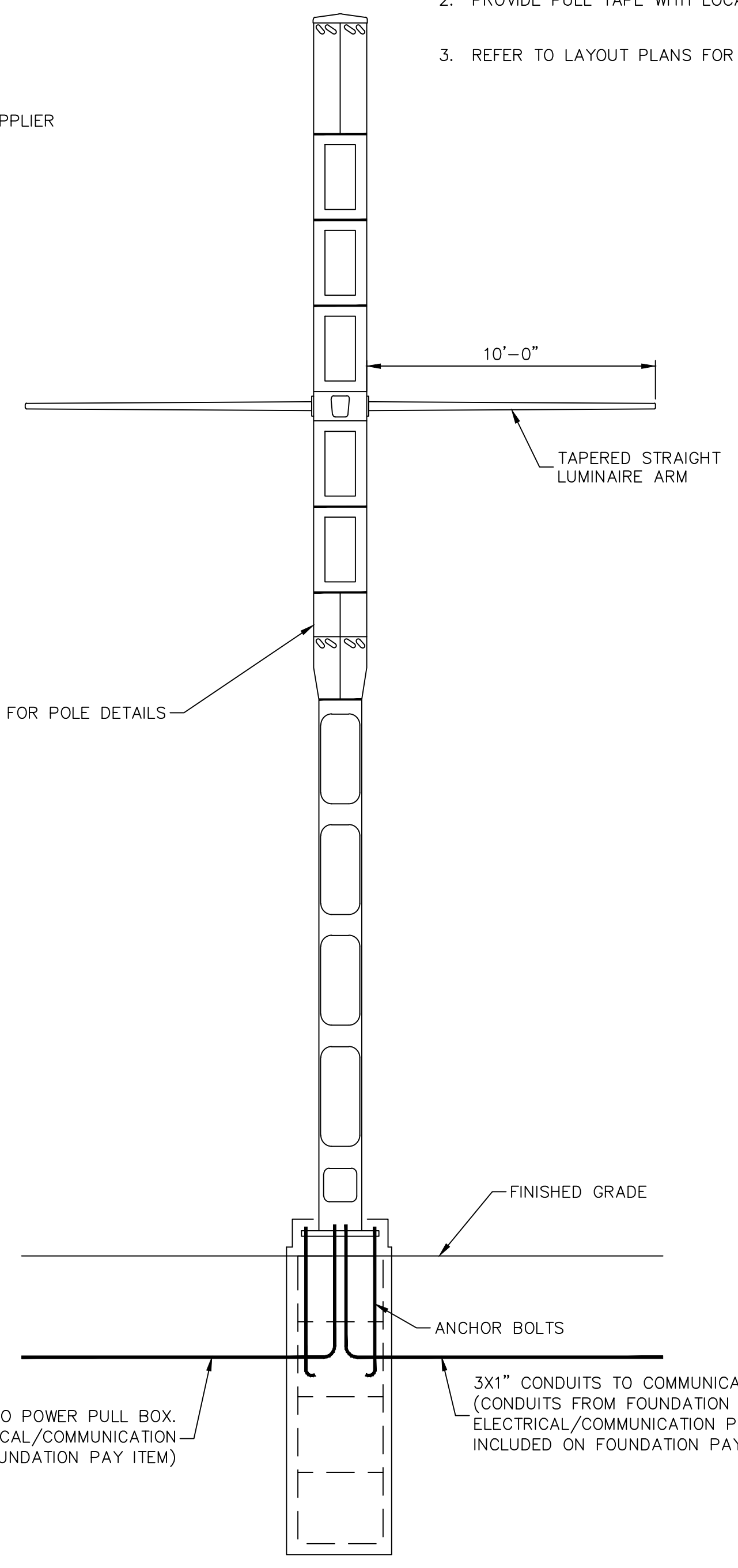
- NOTES:**
- REFER TO DUCT BANK DETAILS.
  - PROVIDE PULL TAPE WITH LOCATOR WIRE IN ALL CONDUITS.
  - REFER TO LAYOUT PLANS FOR CONDUIT CONFIGURATIONS.

- GENERAL NOTES:**
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
  - FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
  - FOUNDATION TO BE POURED MONOLITHICALLY.
  - 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.
  - SITE GRADE IS 7H TO 1V OR FLATTER.
  - ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI, LOCAL, AND STATE CODES.
  - ALL METHODS OF CONSTRUCTION AND INSTALLATION AND THE RESPONSIBILITY OF THE CONTRACTOR.
  - DESIGN BASED ON ASSUMED SOIL CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE ACTUAL SITE SOIL CONDITIONS MEET OR EXCEED ASSUMED VALUES.
  - CONTINUOUS BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME, AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE POLE GROUNDING PLATE.

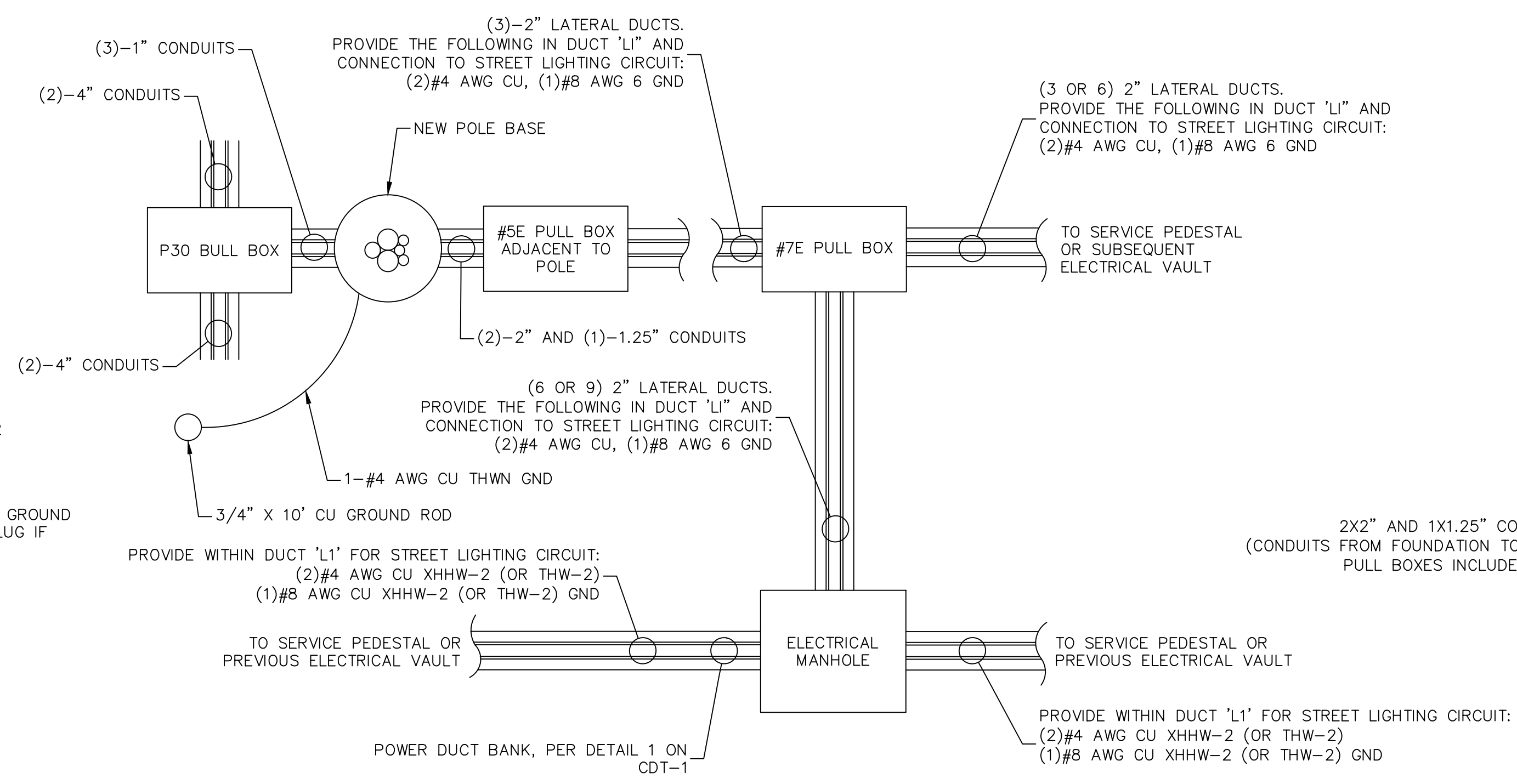
POLE	FOUNDATION SIZE (EA)			LONGITUDINAL BARS (EA)		TRANSVERSE BARS (EA)
	DIAMETER (FT)	LENGTH (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE
42'-7"	3.0	12.0	4,500	14	#8	#4-TIE



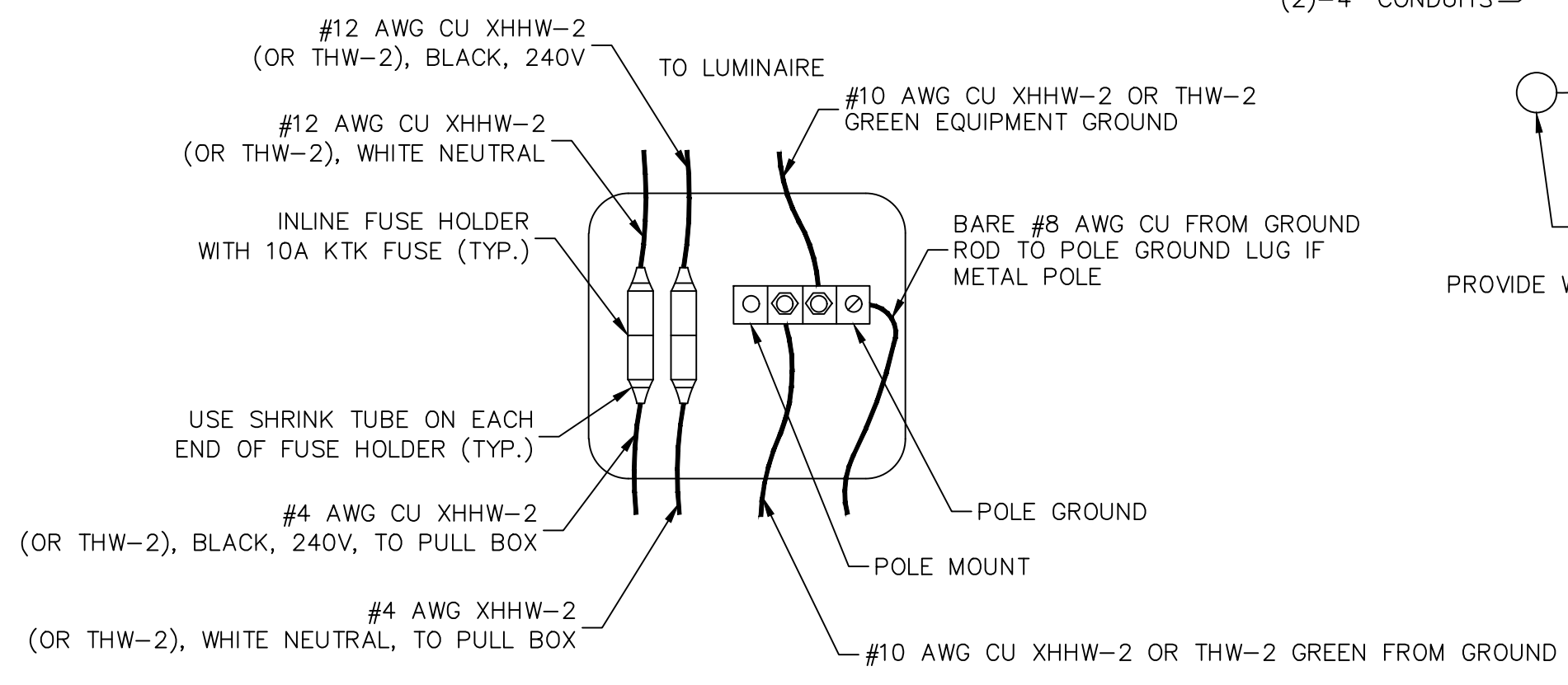
**CONDUIT PLAN**



**SMART POLE DETAIL**



**ELECTRICAL PULL BOX AND SMART POLE BASE CONNECTION DETAIL (TYP.)**



**SMART POLE STREET LIGHTING FUSING & GROUNDING DETAILS (TYP.)**

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

**1-702-227-2929**

**FAST**  
Call before you UnderGround.

**1-702-432-5300**  
FIREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

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

**Call 811**  
OR  
1-800-227-2600

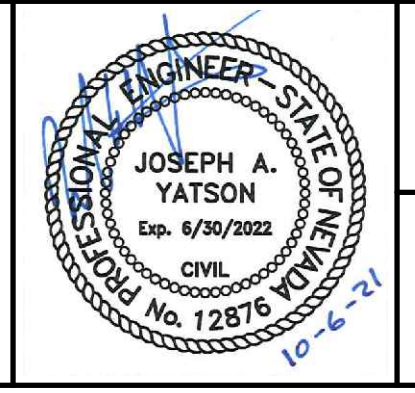
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SMART POLE DETAIL**

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



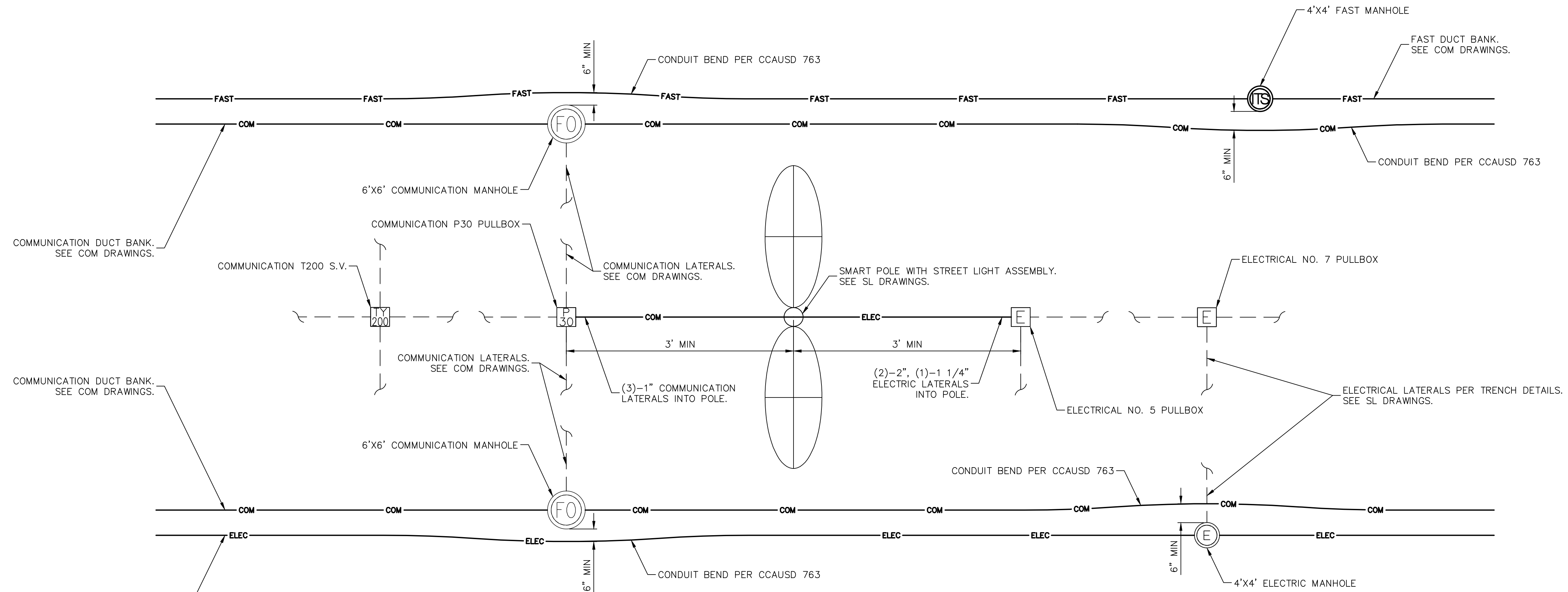
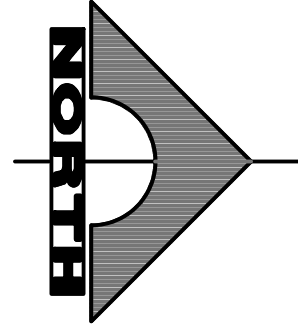
PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_

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

SCALE	DRAWING NO.
HORIZ: NONE	<b>CDT-8</b>
VERT: NONE	SHT. 137 OF 169
FIELD BOOK	L-2304

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





**1 SMART POLE CONNECTION DETAIL**  
 CDT-9 SCALE: NTS

10-13-21 11:55:26 F:\Projects\500\500-897-LV-EF\DWG\Production\LVF\_14\_CmEle\_DT\_Sheets.dwg

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**SMART POLE LAYOUT**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_

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 T: 702.804.2000  
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SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	

DRAWING NO.  
**CDT-9**  
 SHT. 138 OF 169  
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 608978-21

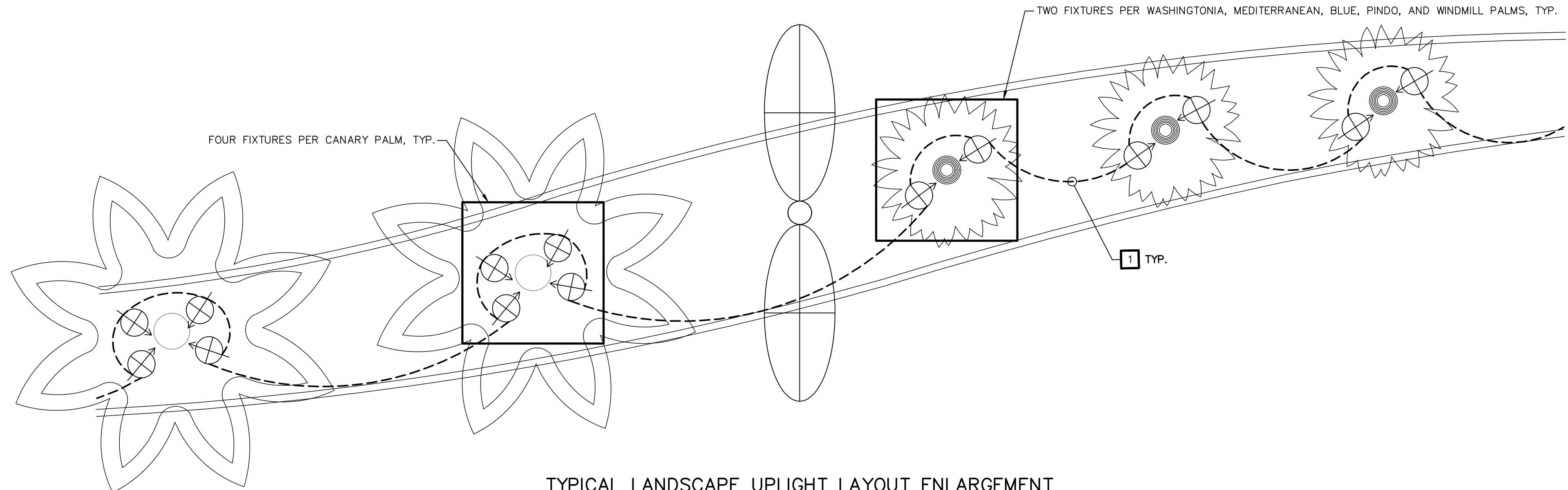


**CONSTRUCTION NOTES**

1. INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG THW-2 OR XHHW-2 CONDUCTORS AND (1) #8 GND.

**NOTES:**

1. REMOVE EXISTING LANDSCAPE LIGHTS IN ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW LANDSCAPE UP LIGHTS IN PLACE OF EXISTING FIXTURES (1 FOR 1).
2. CONTRACTOR SHALL LABEL EACH FIXTURE USING COUNTY NUMBERING SYSTEM. PLEASE CONTACT DAVID PRITCHARD (702-249-7161) FOR NAMING CONVENTION.
3. CONTRACTOR TO PROVIDE NEW PANEL SCHEDULE SHOWING WHAT LIGHTS ARE ON EACH CIRCUIT.



TYPICAL LANDSCAPE UPLIGHT LAYOUT ENLARGEMENT

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DO OVERHEAD**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

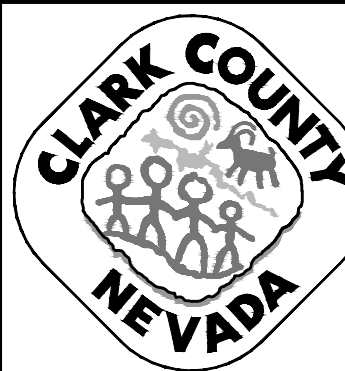
Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call 811

OR 1-800-227-2600

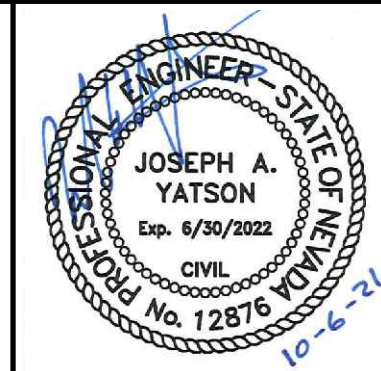
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**LANDSCAPE LIGHT TYPICAL DETAIL**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: JAY  
 APPROVED BY: \_\_\_\_\_

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

SCALE

HORIZ: NONE  
 VERT: NONE

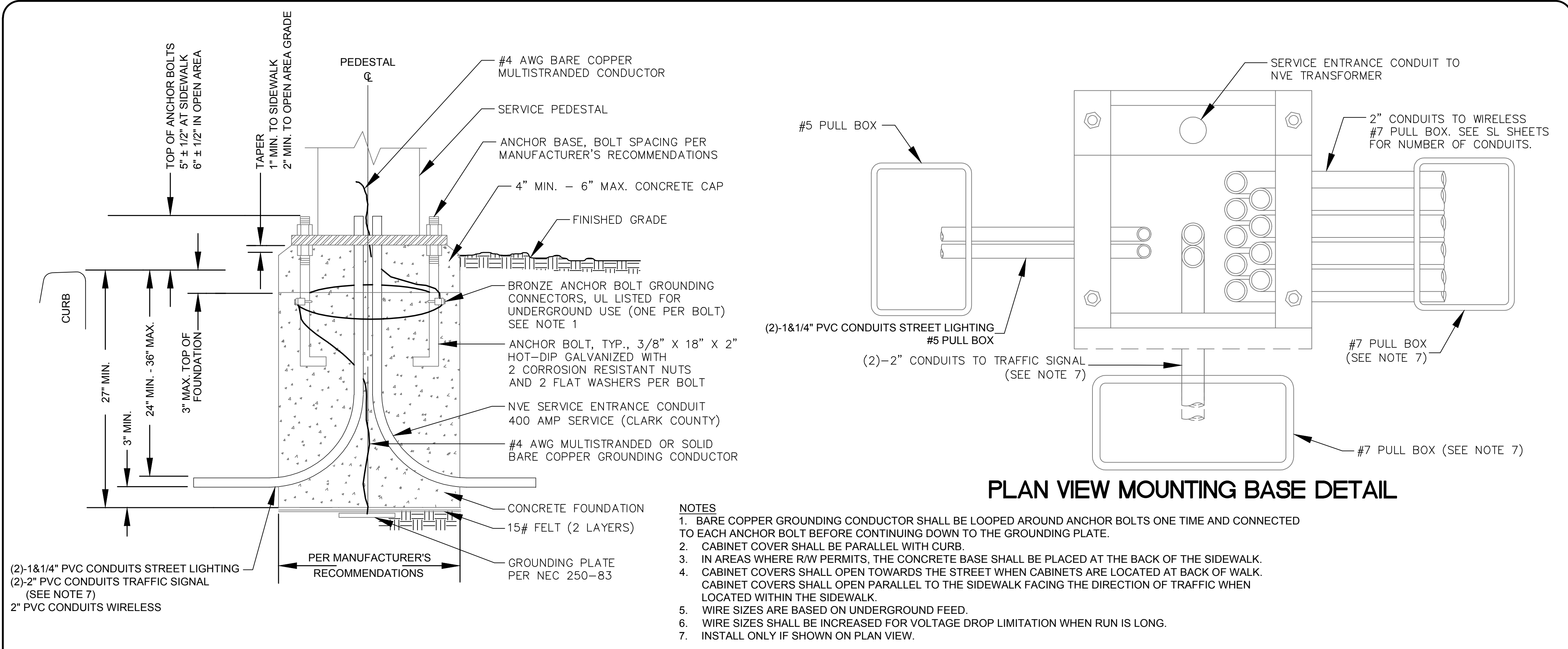
FIELD BOOK

DRAWING NO. **CDT-10**

SHT. 139 OF 169

L-2304





- ### GENERAL STRUCTURAL NOTES
- DESIGN SPECIFICATIONS: AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" 1ST EDITION, 2015.
  - CONSTRUCTION SPECIFICATIONS: UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENT, CLARK COUNTY AREA NEVADA.
  - CONCRETE: ALL CONCRETE SHALL BE CLASS A MODIFIED (MAJOR). ONLY TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH SOIL. CONCRETE COMPRESSIVE MINIMUM STRENGTH AT 28 DAYS SHALL BE,  $f_c=4,500$  PSI AND MAXIMUM WATER TO CEMENT RATIO, BY WEIGHT, OF 0.45.
  - REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. PROVIDE 3" CLEAR MINIMUM CONCRETE COVER UNLESS OTHERWISE NOTED.
  - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.
  - WRAP NO. 4 AWG BARE COPPER GROUNDING WIRE AROUND REINFORCING. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND REINFORCING AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
  - EXISTING UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK AREA AND PROVIDING PROTECTION FOR THE VARIOUS UTILITIES AFFECTED PRIOR TO PROCEEDING WITH THE WORK.
  - CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES AND UNDERGROUND ITEMS.
  - ANCHOR BOLTS SHALL EXTEND TO 3" CLR OF FOUNDATION BASE. PROVIDE A STEEL PLATE (A36) AT THE END OF EACH ANCHOR BOLT AS SHOWN. PLATE SIZE SHALL BE 5/8" THICK x 3" x 3" WITH A DRILLED HOLE THAT IS 1/16th INCH LARGER THAN BOLT DIAMETER. PROVIDE NUT AND WASHER BELOW AND ABOVE PLATE.

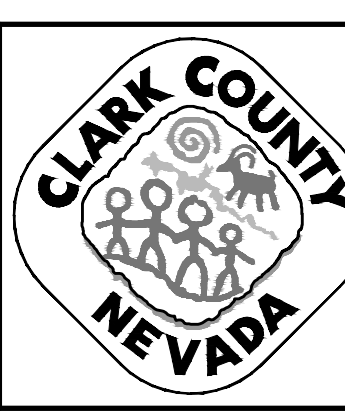
PLAN VIEW MOUNTING BASE DETAIL

- ### NOTES
- BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
  - CABINET COVER SHALL BE PARALLEL WITH CURB.
  - IN AREAS WHERE R/W PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK OF THE SIDEWALK. CABINET COVERS SHALL OPEN TOWARDS THE STREET WHEN CABINETS ARE LOCATED AT BACK OF WALK. CABINET COVERS SHALL OPEN PARALLEL TO THE SIDEWALK FACING THE DIRECTION OF TRAFFIC WHEN LOCATED WITHIN THE SIDEWALK.
  - WIRE SIZES ARE BASED ON UNDERGROUND FEED.
  - WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG.
  - INSTALL ONLY IF SHOWN ON PLAN VIEW.

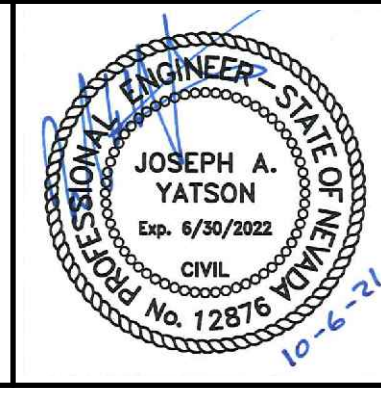
**1 SERVICE PEDESTAL/SWITCH GEAR FOUNDATION DETAIL**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



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

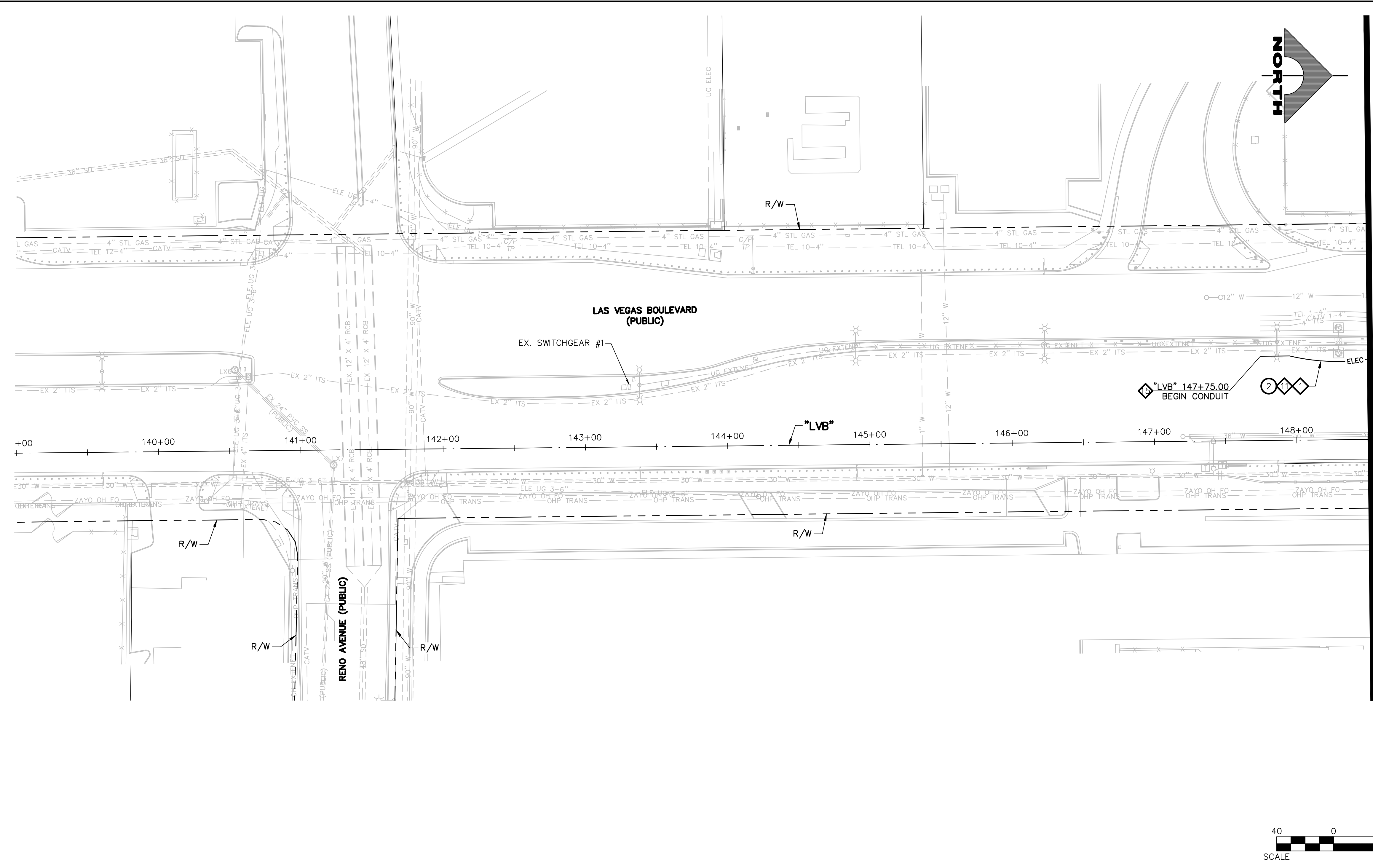


PROJECT No: 500-897-LV-EF DRAWN BY: DAT  
 DESIGNED BY: DAT CHECKED BY: EGG  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
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 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	<b>CDT-11</b>
VERT: NONE	
FIELD BOOK	SHT. 140 OF 169
	L-2304

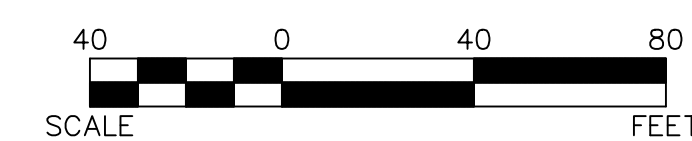


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SEE DRAWING NO. SL-2

"LVB" 148+50.00 MATCHLINE



**WATERLINE SEPARATION NOTE**  
PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.

**LIGHTING NOTES**

- 1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
- 2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
- 3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
- 4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
- 5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5)  
SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
- 6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
- 7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
- 8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
- 9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
- 10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
- 11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
- 12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
- 14. INSTALL RS-1 PULLBOX (NVE)
- 15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
- 16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
- 17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
- 18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
- 19. INSTALL (8) 6'X6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
- 20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
- 21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
- 22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
- 23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
- 24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
- 25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
- 26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
- 27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
- 28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
- 29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
- 30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

**NOTES**  
1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

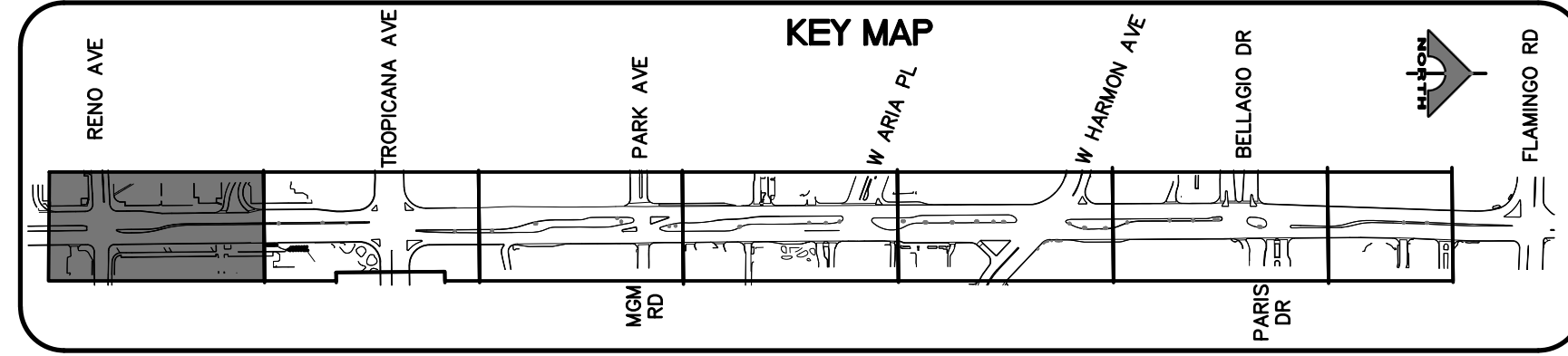
**CAUTION: HIGH PRESSURE GAS!!!**  
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

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

**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

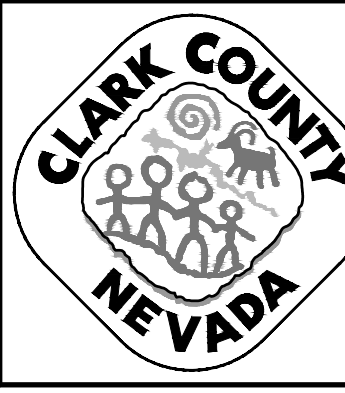


**CALL BEFORE YOU DIG OVERHEAD**  
1-702-227-2929

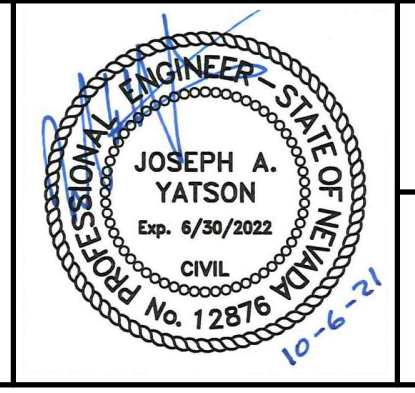
**FAST**  
Call before you UnderGround.  
1-702-432-5300

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

REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**STREET LIGHTING PLAN**  
 "LVB" 139+00.00 TO "LVB" 148+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

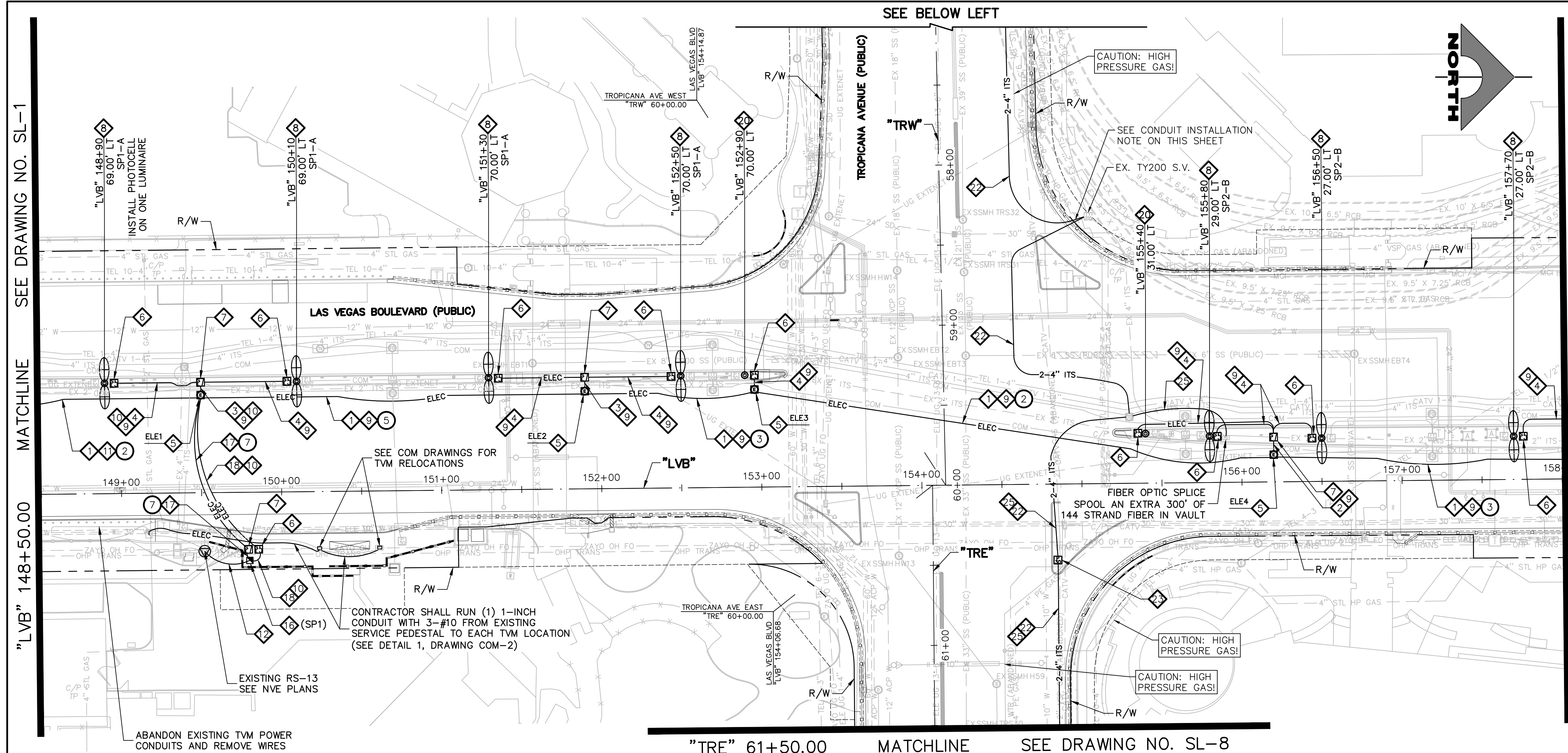


PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 DRAWING NO. **SL-1**  
 SHT. 141 OF 169  
 L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21



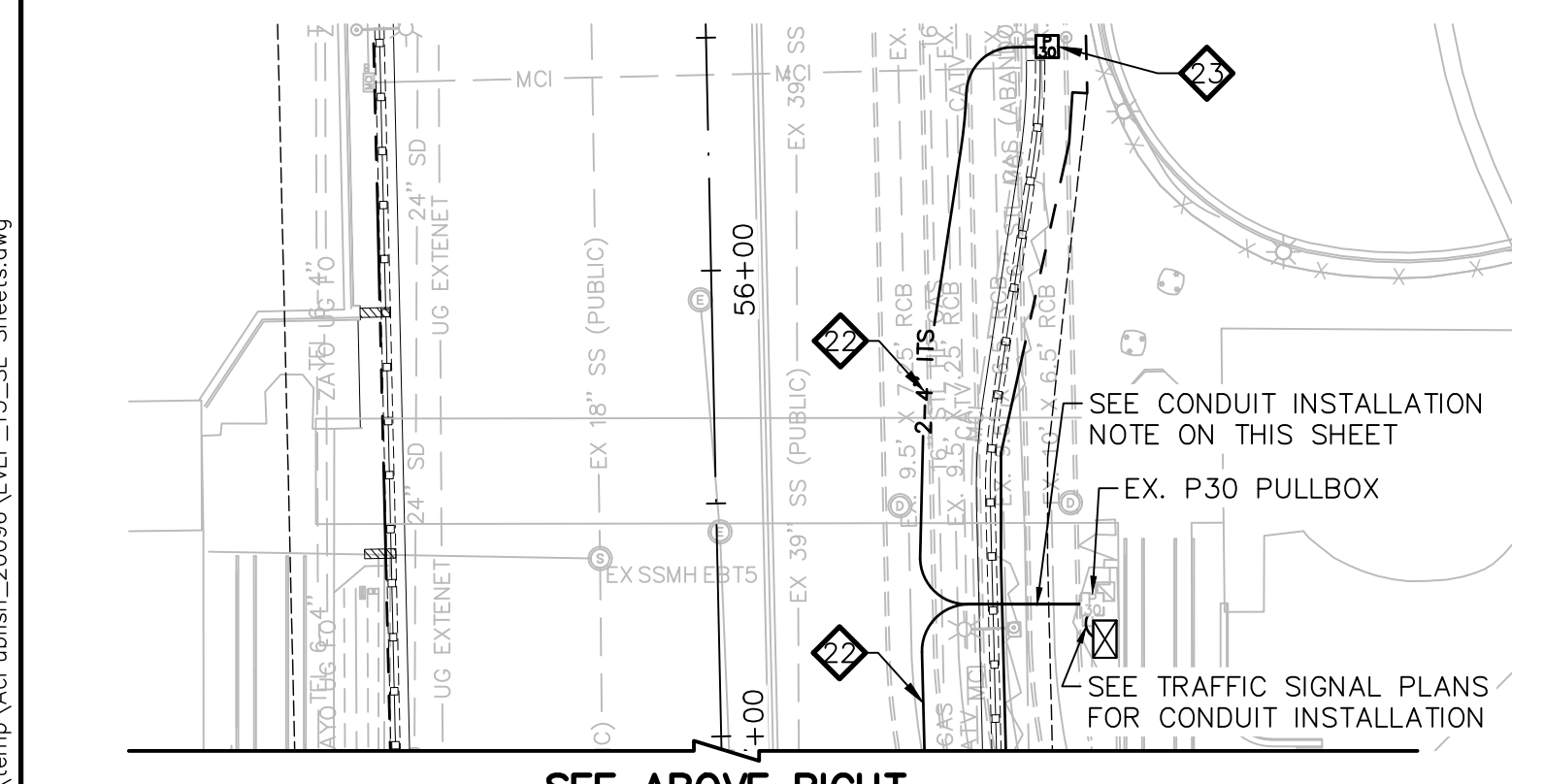
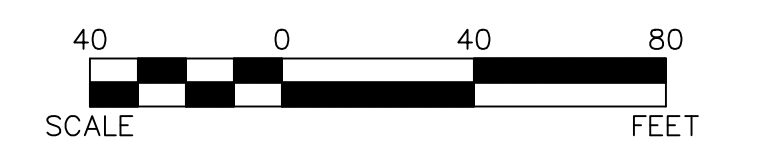


- ### LIGHTING NOTES
1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
  3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
  4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
  5. INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
  6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
  7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
  8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
  10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
  11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
  12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  14. INSTALL RS-1 PULLBOX (NVE)
  15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
  18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
  19. INSTALL (8) 6'x6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
  20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
  23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
  26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
  27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
  28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
  29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

**NOTES**  
 1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

**CONDUIT INSTALLATION NOTE**  
 FOR CONDUIT INSTALLATION INTO STONE TILE WALKWAY, CAREFULLY REMOVE STONE TILES FOR REUSE AND PLACE BACK IN LIKE CONDITION (INCLUDED IN CONDUIT PAY ITEMS).

**WATERLINE SEPARATION NOTE**  
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.



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

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

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

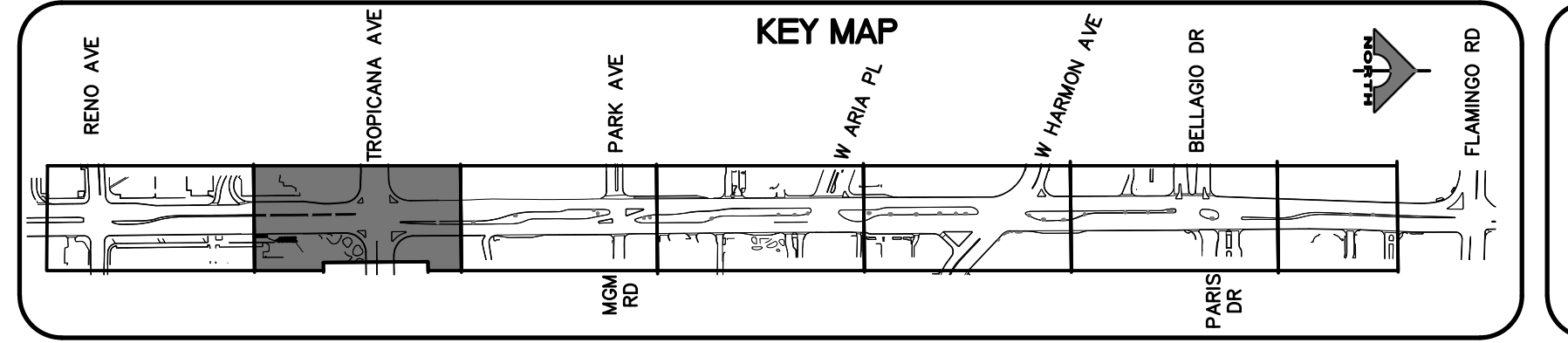
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072  
 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CCWRD PIPES NUMBER: **21.983**

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



REV. NO.	DATE	DESCRIPTION	APPROVED

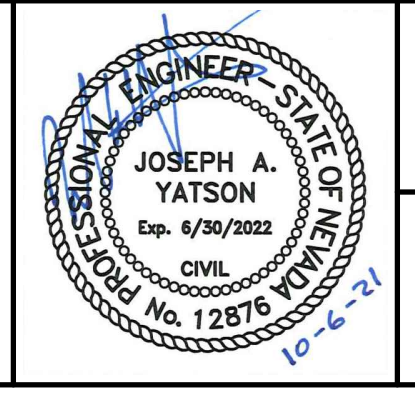
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STREET LIGHTING PLAN**

**"LVB" 148+50.00 TO "LVB" 158+00.00**

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



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_

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

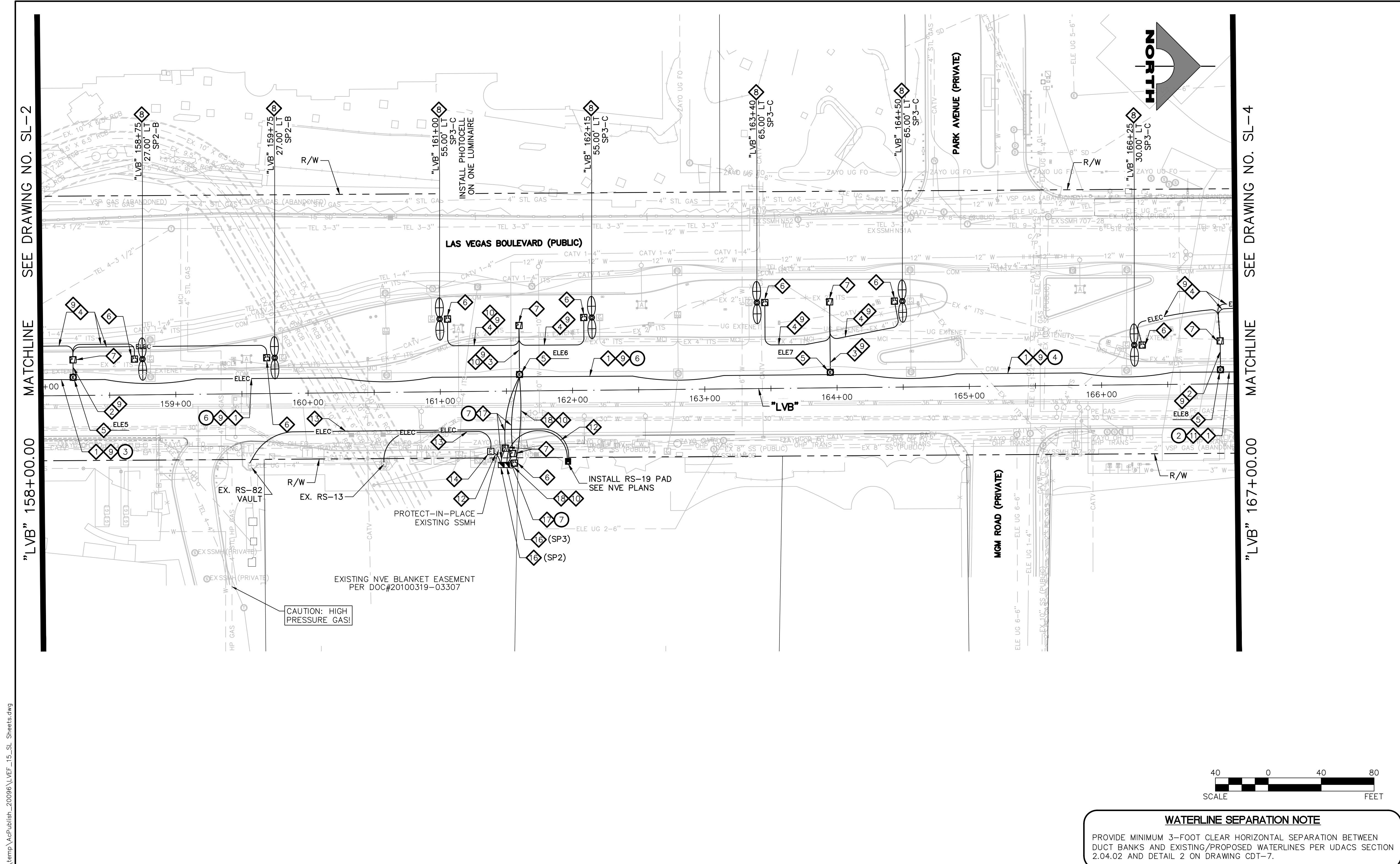
SCALE  
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 VERT: NONE  
 FIELD BOOK

DRAWING NO.  
**SL-2**  
 SHT. 142 OF 169  
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)  
 BID NO.: 603976-21

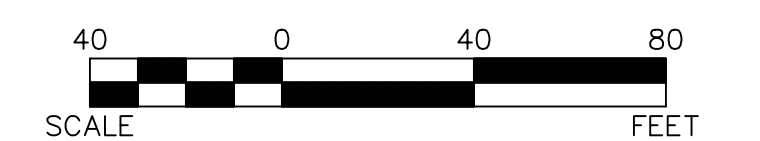




- ### LIGHTING NOTES
1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
  3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
  4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
  5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
  6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
  7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
  8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
  10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
  11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
  12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  14. INSTALL RS-1 PULLBOX (NVE)
  15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
  18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
  19. INSTALL (8) 6'X6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
  20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
  23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
  26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
  27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
  28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
  29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

**NOTES**  
 1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

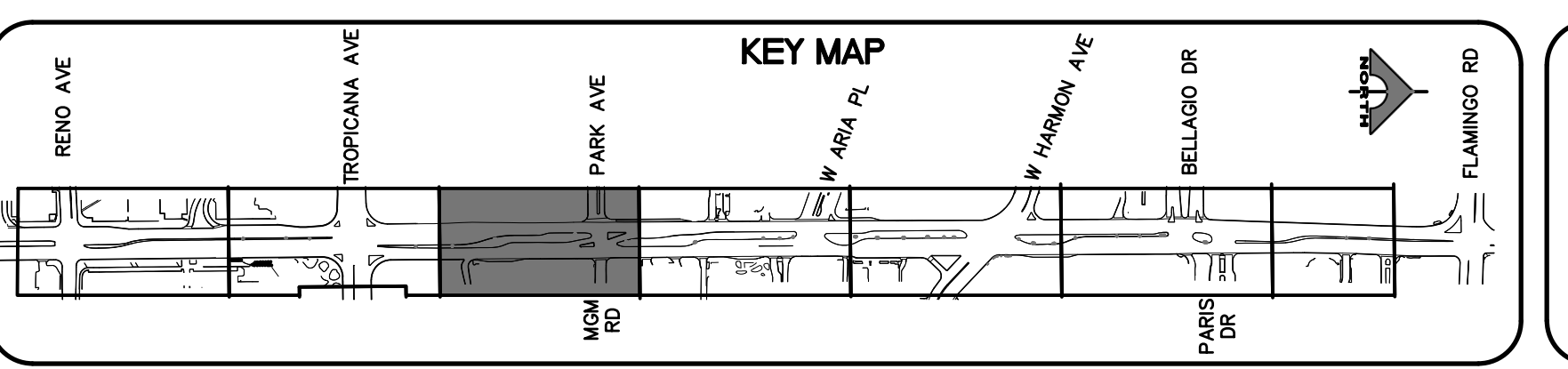
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CCWRD PIPES NUMBER: **21.983**  
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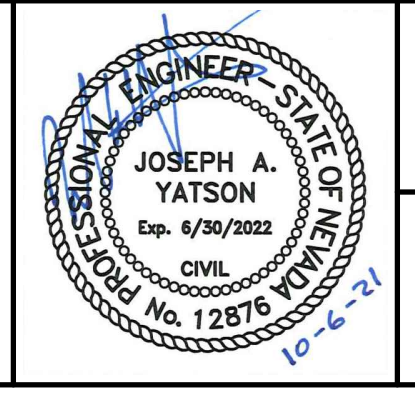


**SOUTHWEST GAS VALVE NOTE**  
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**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**STREET LIGHTING PLAN**  
**"LVB" 158+00.00 TO "LVB" 167+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



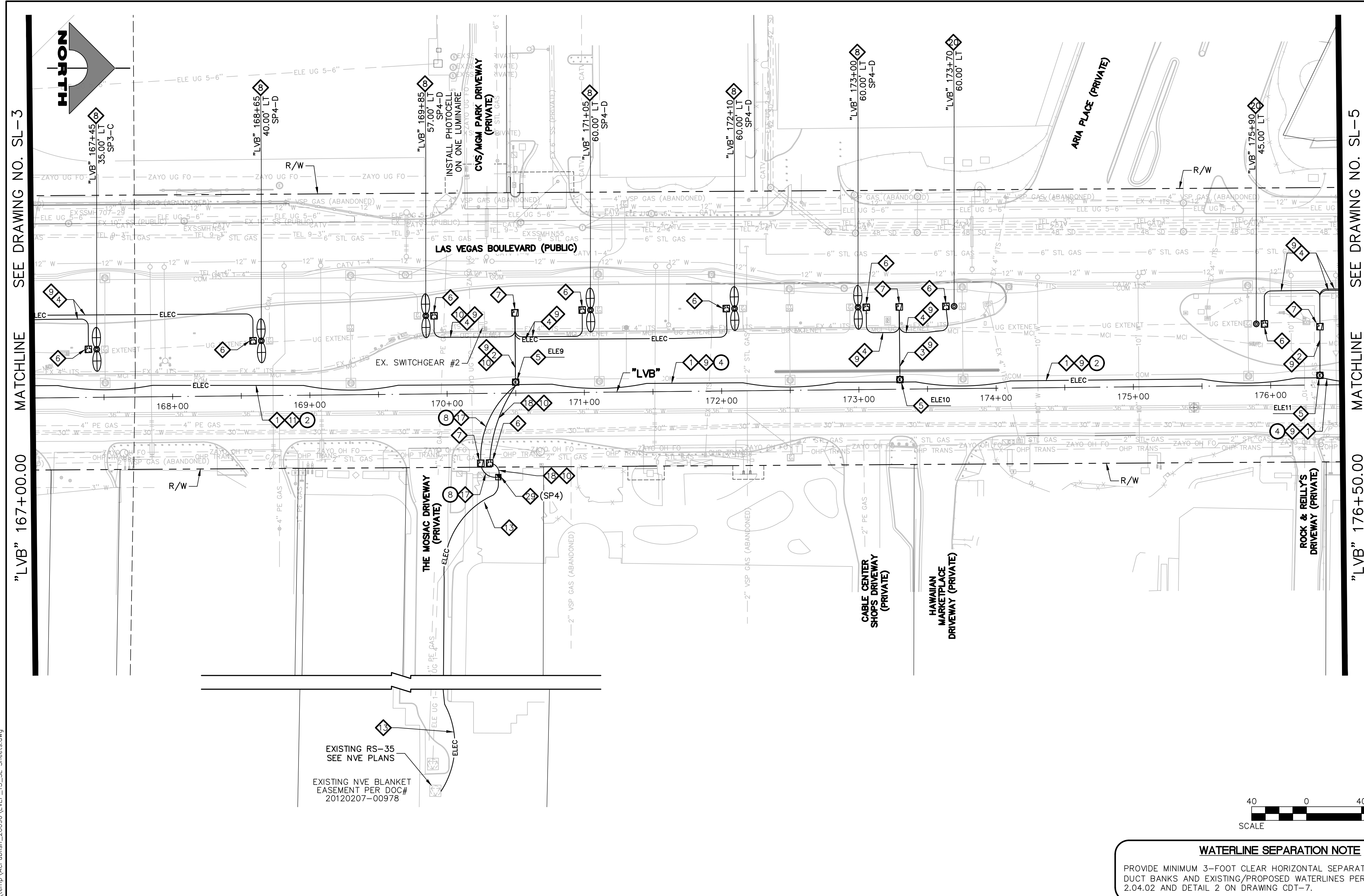
PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
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**GCV** ENGINEERS \ SURVEYORS  
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SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 DRAWING NO. **SL-3**  
 SHT. 143 OF 169  
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21

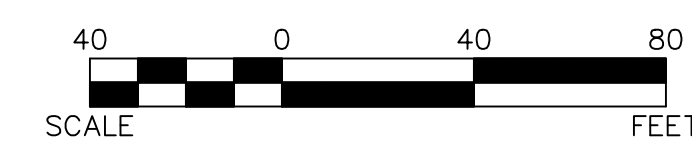




- ### LIGHTING NOTES
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  11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
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  13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  14. INSTALL RS-1 PULLBOX (NVE)
  15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
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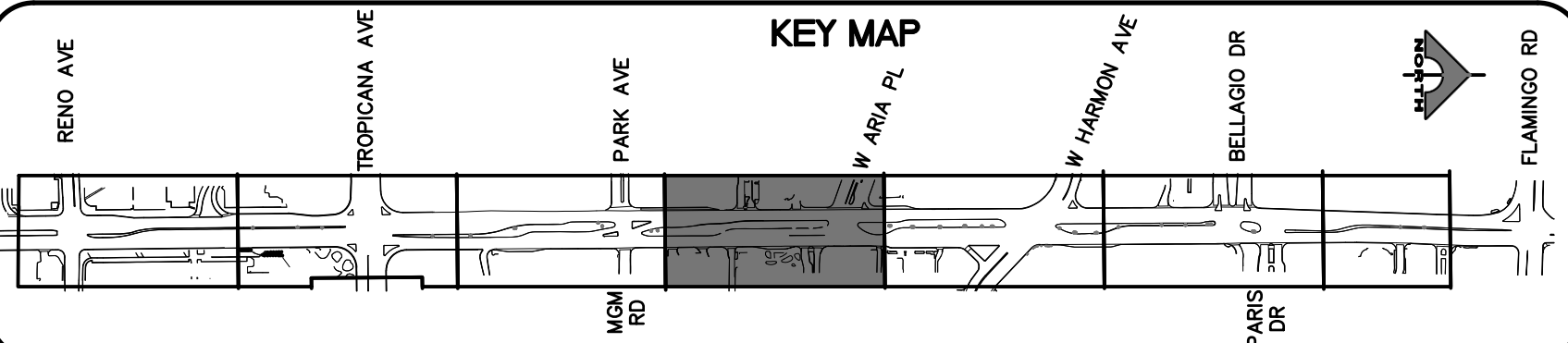
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
 BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CCWRD PIPES NUMBER: 21.983  
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**APPROVED FOR CONSTRUCTION**  
 LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**STREET LIGHTING PLAN**  
 "LVB" 167+00.00 TO "LVB" 176+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



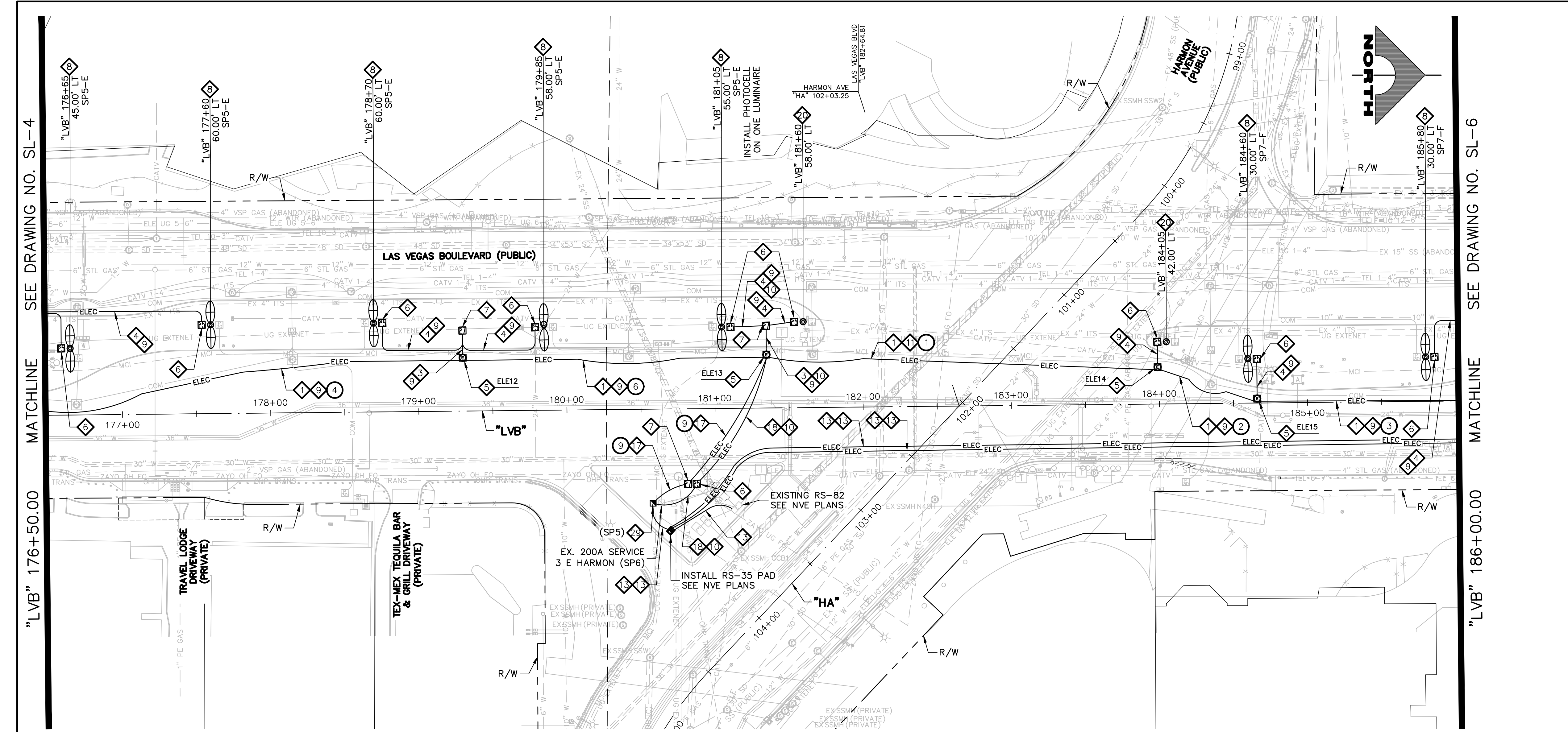
PROJECT No: 500-897-LV-EF DRAWN BY: AV  
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 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 DRAWING NO. **SL-4**  
 SHT. 144 OF 169  
 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





- ### LIGHTING NOTES
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  11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
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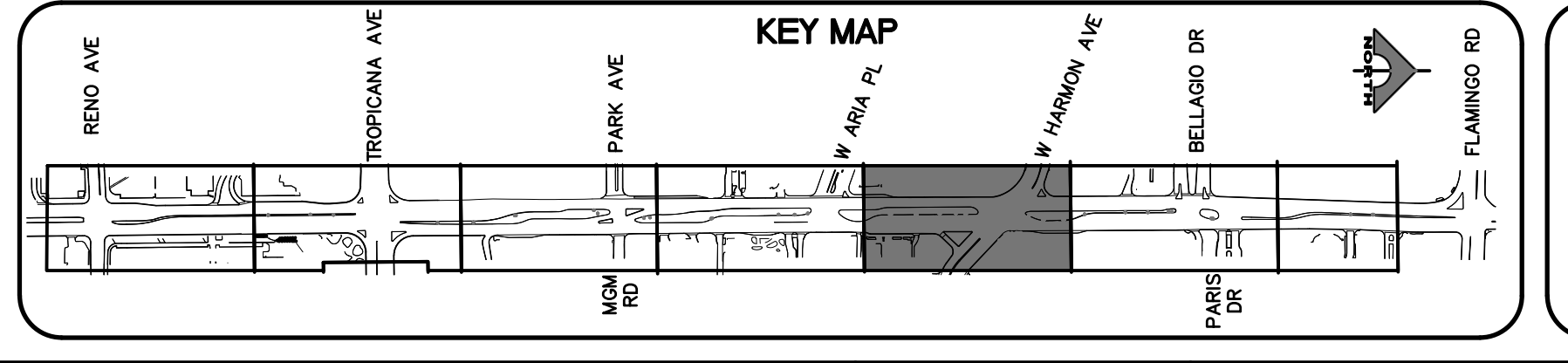
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CCWRD PIPES NUMBER: 21.983

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REV. NO.	DATE	DESCRIPTION	APPROVED

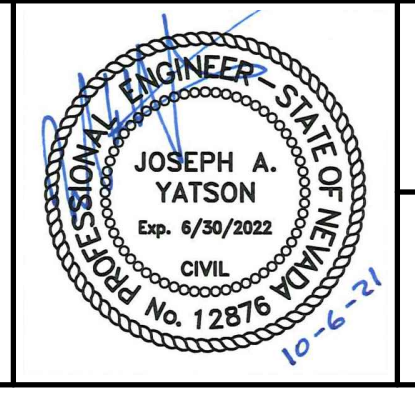
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STREET LIGHTING PLAN**

**"LVB" 176+50.00 TO "LVB" 186+00.00**

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



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS  
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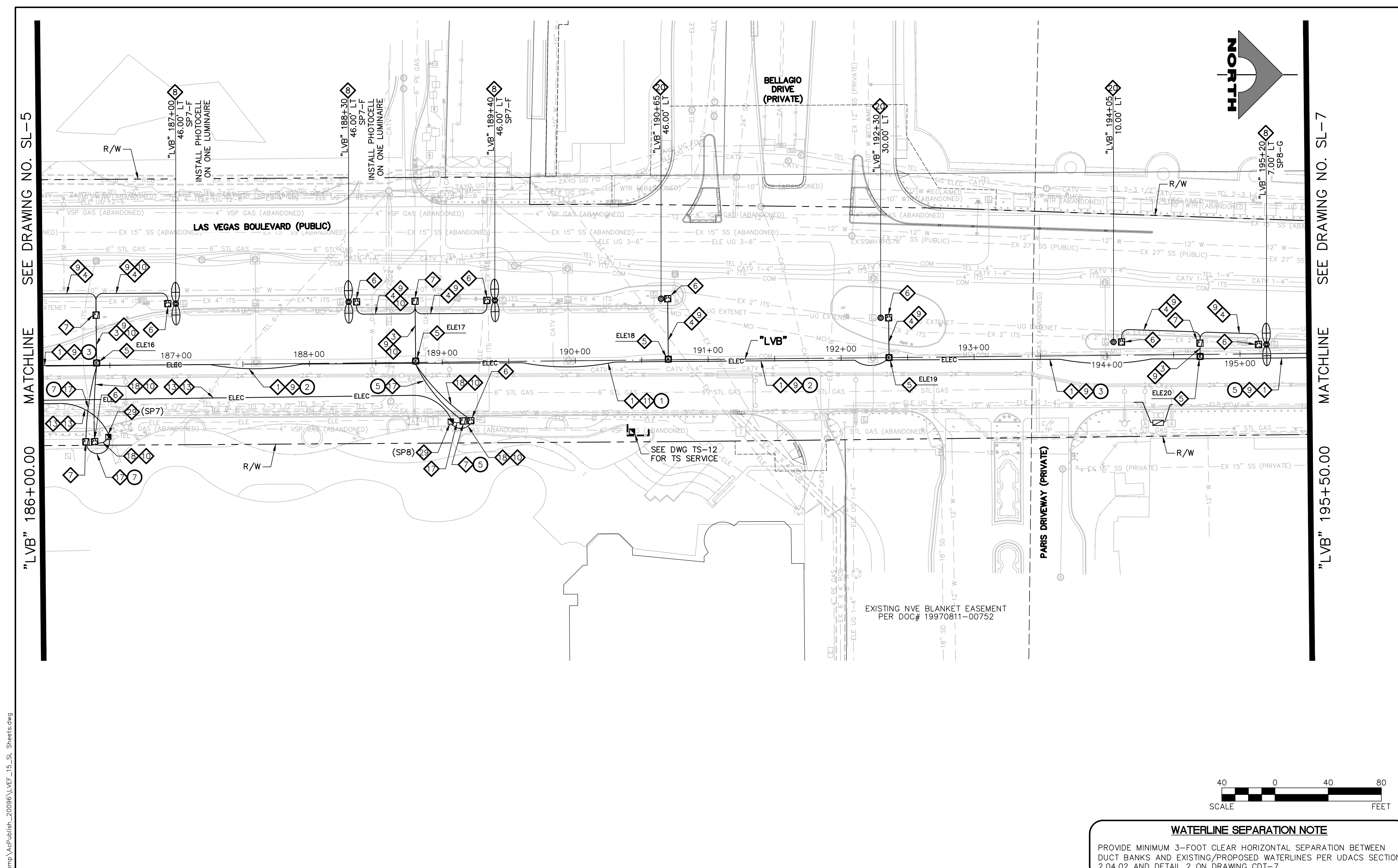
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DRAWING NO. **SL-5** SHT. 145 OF 169 L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





- ### LIGHTING NOTES
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  2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
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  12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  14. INSTALL RS-1 PULLBOX (NVE)
  15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
  18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
  19. INSTALL (8) 6'X6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
  20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  22. INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
  23. INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  24. INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  25. INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
  26. INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
  27. INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
  28. PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
  29. INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.
- ### NOTES
1. ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.

**WATERLINE SEPARATION NOTE**  
 PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.

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

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

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

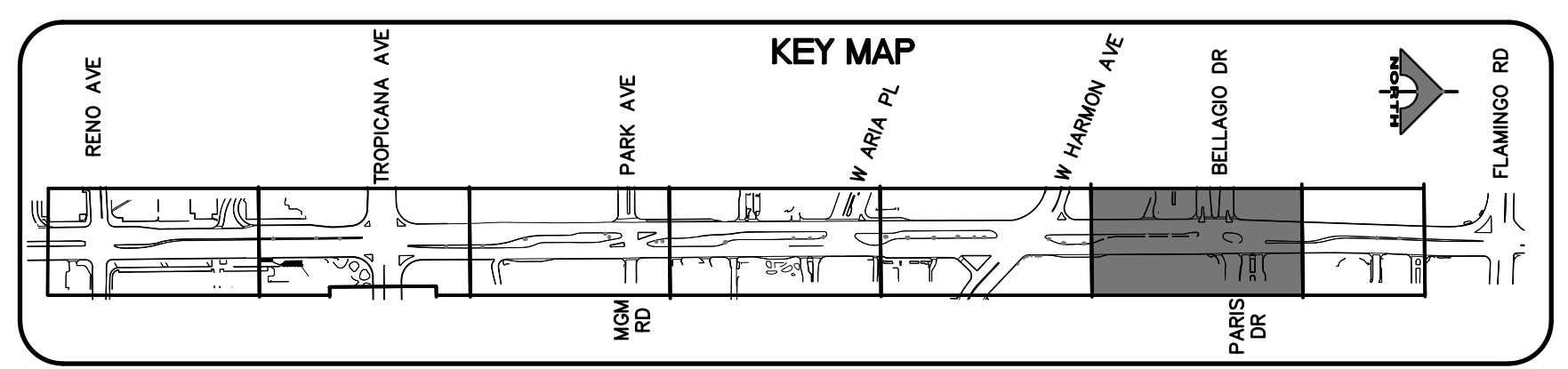
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
 PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CCWRD PIPES NUMBER: **21.983**

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



AVOID HITTING OVERHEAD POWER LINES 15' CLEARANCE

**CALL BEFORE YOU DO OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FLYWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

Avoid cutting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STREET LIGHTING PLAN**

**"LVB" 186+00.00 TO "LVB" 195+50.00**

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

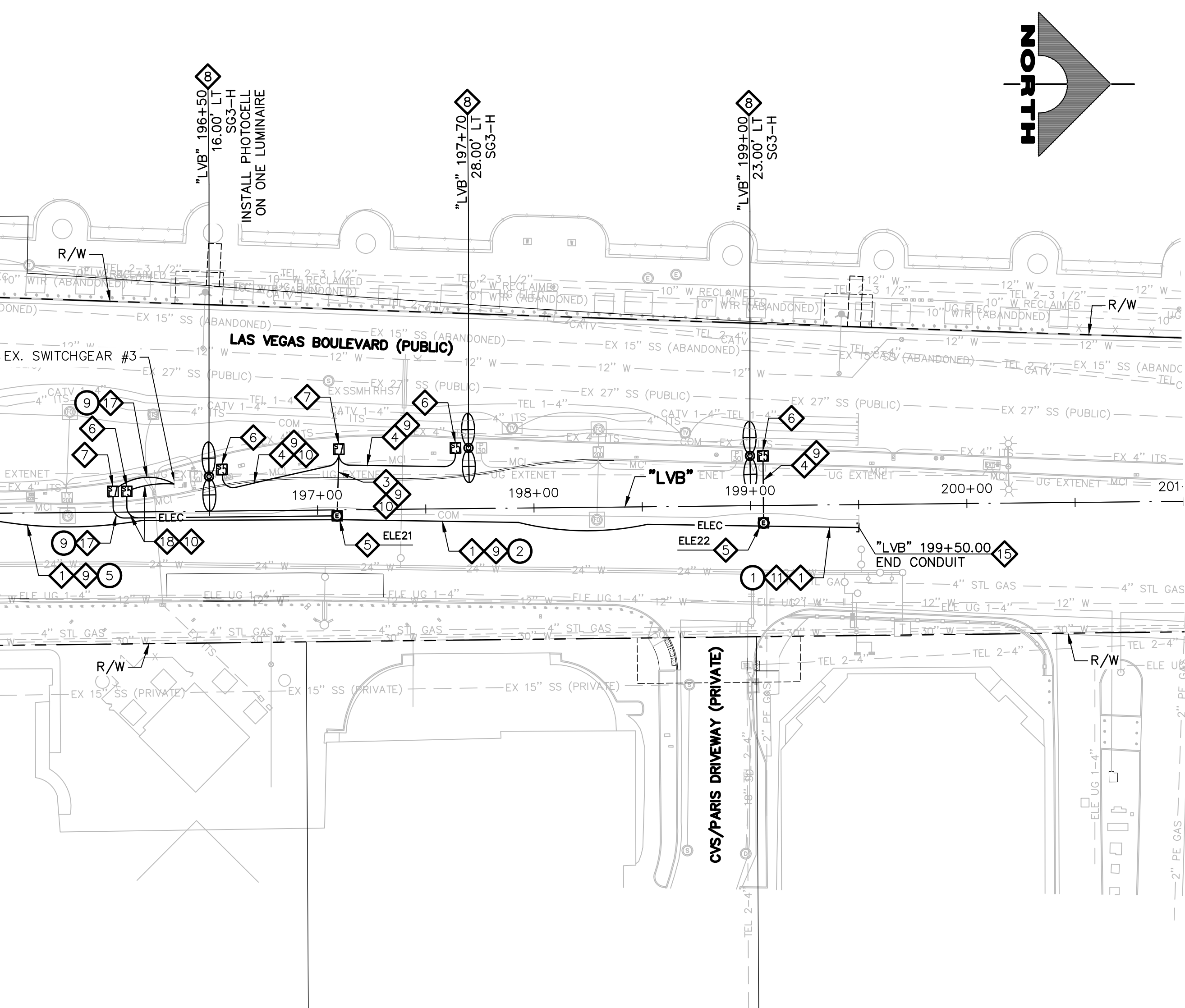
PROJECT No: 500-897-LV-EF	DRAWN BY: AV	SCALE:	DRAWING NO.
DESIGNED BY: JAY	CHECKED BY: TAM	HORIZ: AS SHOWN	<b>SL-6</b>
APPROVED BY: _____		VERT: NONE	SHT. 146 OF 169
<b>GCV</b> ENGINEERS \ SURVEYORS		FIELD BOOK	L-2304
		1555 S. RAINBOW BLVD. LAS VEGAS, NV 89146 T: 702.804.2000 F: 702.804.2299 gcvengineering.com	

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21



SEE DRAWING NO. SL-6  
MATCHLINE  
"LVB" 195+50.00



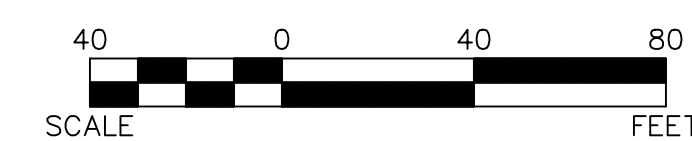
**4'X4' TRAFFIC RATED ELECTRICAL MANHOLE TABLE**

ID	STATION & OFFSET
ELE1	"LVB" 149+50.00, 61.00 LT
ELE2	"LVB" 151+90.00, 61.00 LT
ELE3	"LVB" 152+96.00, 61.00 LT
ELE4	"LVB" 156+20.00, 17.00 LT
ELE5	"LVB" 158+22.50, 13.75 LT
ELE6	"LVB" 161+60.00, 12.50 LT
ELE7	"LVB" 163+95.00, 11.75 LT
ELE8	"LVB" 166+90.00, 10.75 LT
ELE9	"LVB" 170+50.00, 8.00 LT
ELE10	"LVB" 173+30.00, 7.00 LT
ELE11	"LVB" 176+36.00, 7.00 LT
ELE12	"LVB" 179+30.00, 36.00 LT
ELE13	"LVB" 181+35.00, 36.00 LT
ELE14	"LVB" 183+99.00, 25.00 LT
ELE15	"LVB" 184+66.00, 3.00 LT
ELE16	"LVB" 186+40.00, 2.00 LT
ELE17	"LVB" 188+80.00, 1.00 LT
ELE18	"LVB" 190+70.00, 0.50 LT
ELE19	"LVB" 192+36.00, 0.00
ELE20	"LVB" 194+70.00, 1.50 RT

**4'X4' TRAFFIC RATED ELECTRICAL MANHOLE TABLE**

ID	STATION & OFFSET
ELE21	"LVB" 197+09.00, 2.75 RT
ELE22	"LVB" 199+06.00, 8.00 RT

- LIGHTING NOTES**
1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
  3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
  4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
  5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5)
  6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
  7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
  8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
  10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
  11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
  12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  14. INSTALL RS-1 PULLBOX (NVE)
  15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  17. INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
  18. INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
  19. INSTALL (8) 6'X6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
  20. INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  21. REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
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  30. NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.



**WATERLINE SEPARATION NOTE**  
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**NOTES**  
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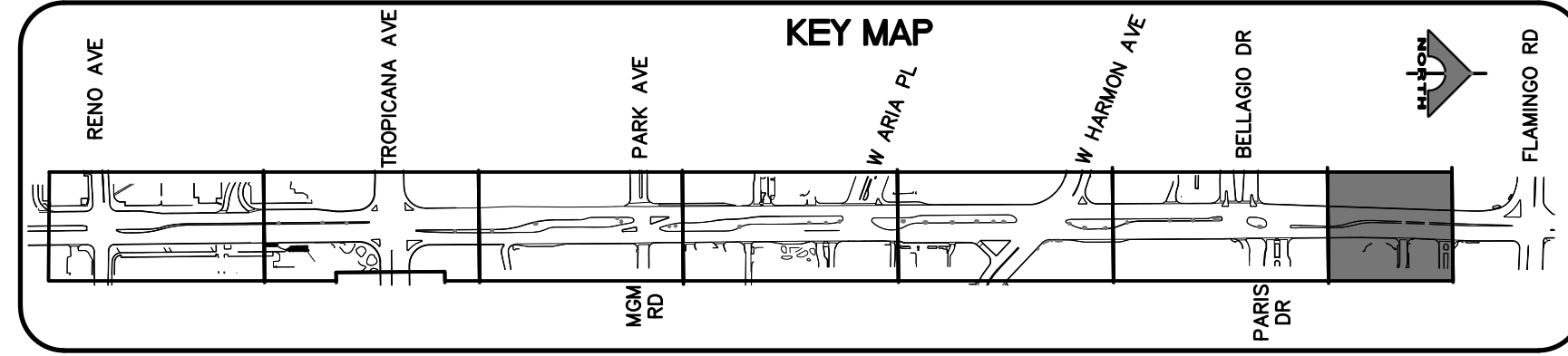
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**  
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**SOUTHWEST GAS VALVE NOTE**  
FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION.

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_



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

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STREET LIGHTING PLAN**

"LVB" 195+50.00 TO "LVB" 201+00.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

**PROFESSIONAL ENGINEER - STATE OF NEVADA**  
JOSEPH A. YATSON  
Exp. 6/30/2022  
CIVIL  
No. 12876

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

PROJECT No: 500-897-LV-EF DRAWN BY: AV  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

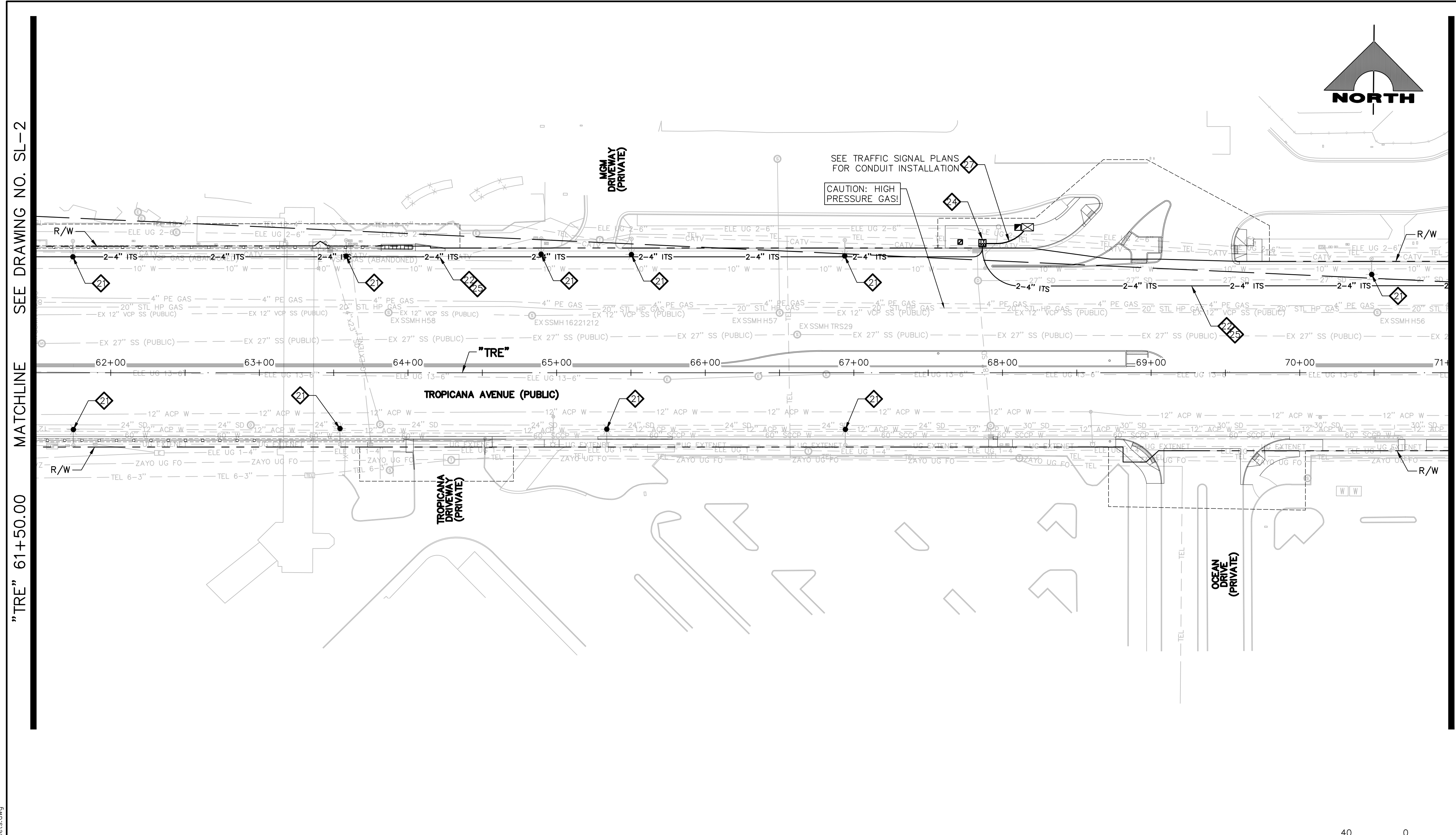
SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO. **SL-7**  
SHT. 147 OF 169  
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





- ### LIGHTING NOTES
1. INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
  2. INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
  3. INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
  4. INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
  5. INSTALL 4'X4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
  6. INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
  7. INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
  8. INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  9. INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
  10. INSTALL 3-#10 IN (1) LIGHTING CONDUIT
  11. INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
  12. INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  13. INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE (SEE DETAIL 2, DRAWING CDT-11)
  14. INSTALL RS-1 PULLBOX (NVE)
  15. STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  16. INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
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### ITS NOTES:

1. CONDUIT ROUTING IS SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. SLACK SHALL BE PROVIDED IN EACH P30 P.B. (30 FT) AND TYPE 200 S.V. (120 FT) UNLESS OTHERWISE NOTED. PULL BOXES, SPLICE VAULTS, AND CONDUIT SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR SHALL VERIFY PRIOR TO INSTALLATION.
3. ALL EXISTING ITS INFRASTRUCTURE SHALL BE MAINTAINED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.

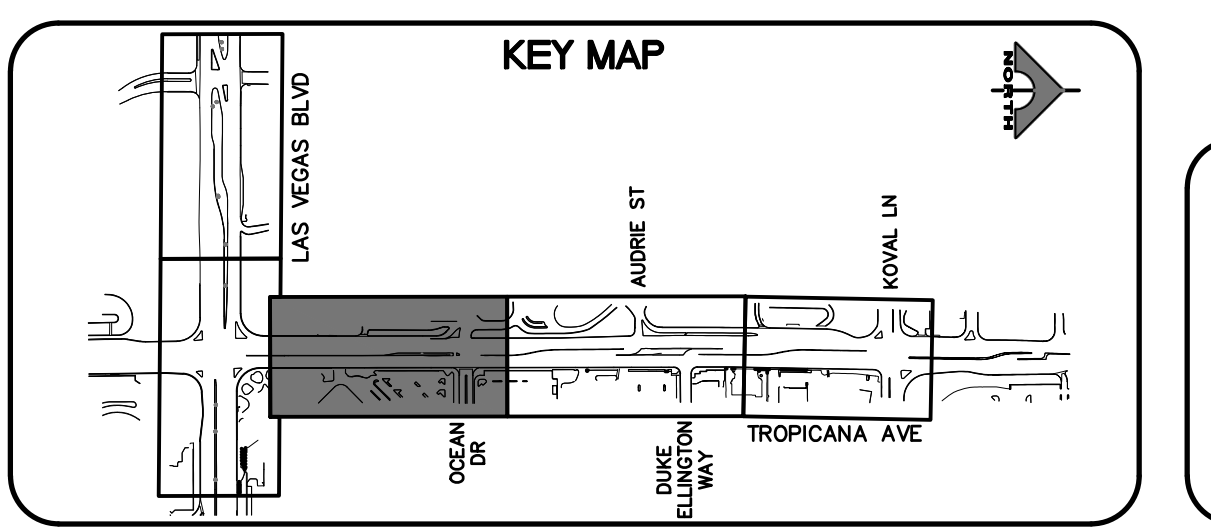
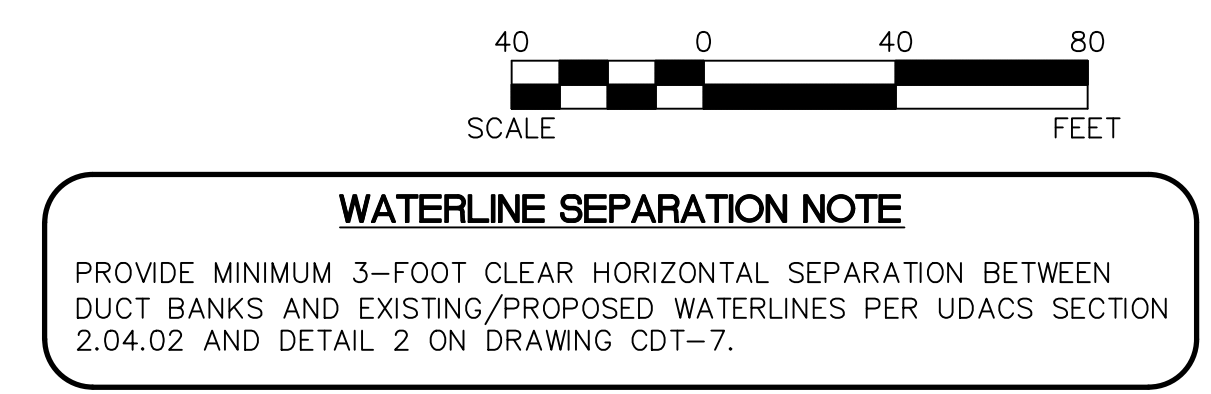
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**CLARK COUNTY WATER RECLAMATION DISTRICT**  
BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: 21.983  
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**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_



REV. NO.	DATE	DESCRIPTION	APPROVED

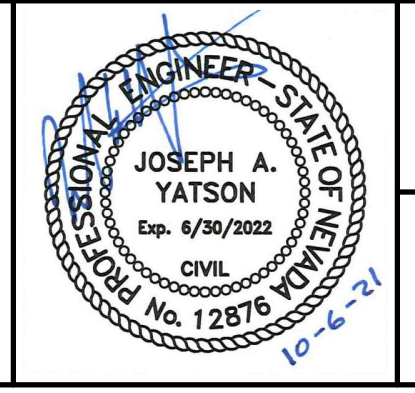
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STREET LIGHTING/ITS PLAN**

**"TRE" 61+50.00 TO "TRE" 71+00.00**

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



PROJECT No: 500-897-LV-EF DRAWN BY: JAP  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
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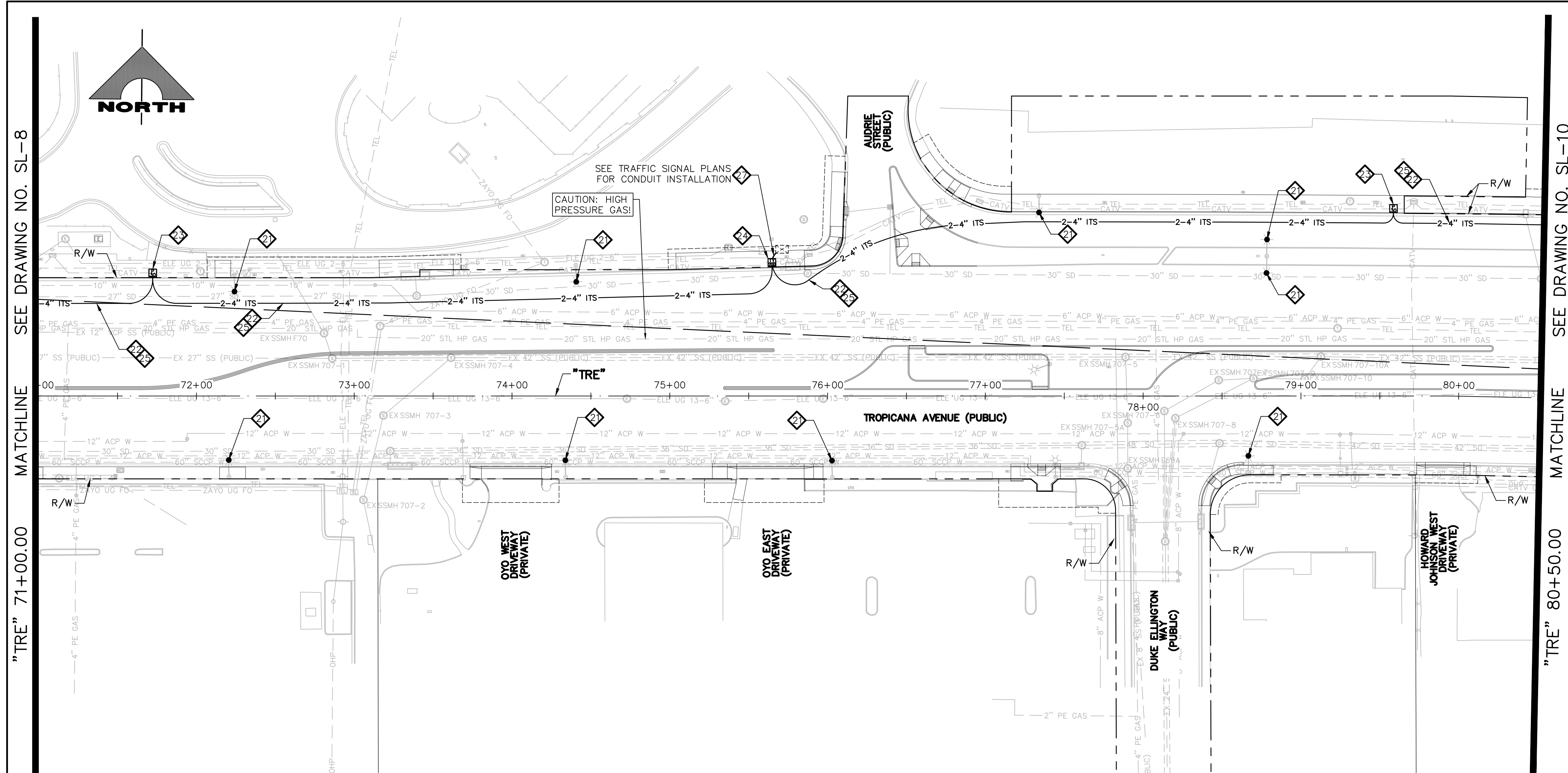
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HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO. **SL-8**  
SHT. 148 OF 169  
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





SEE DRAWING NO. SL-8  
MATCHLINE  
"TRE" 71+00.00

SEE DRAWING NO. SL-10  
MATCHLINE  
"TRE" 80+50.00

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**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES  
PROJECT NO. 139072  
FIRST APPROVED DATE: \_\_\_\_\_

**CLARK COUNTY WATER RECLAMATION DISTRICT**

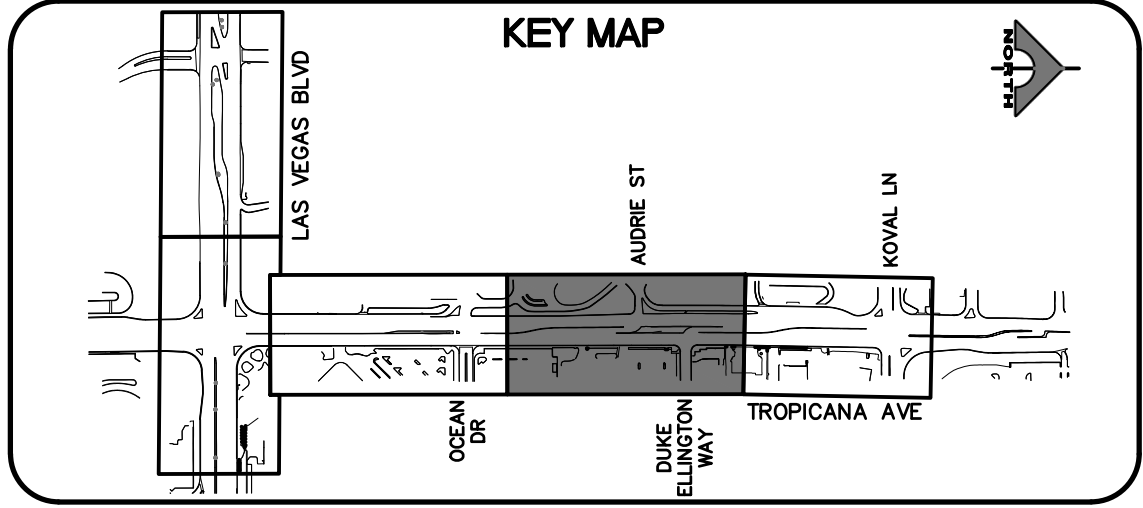
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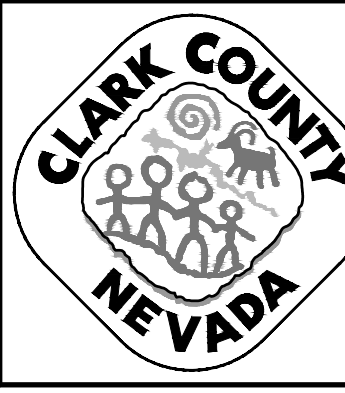
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  - INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
  - INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  - INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE (SEE DETAIL 2, DRAWING CDT-11)
  - INSTALL RS-1 PULLBOX (NVE)
  - STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  - INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  - INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
  - INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
  - INSTALL (8) 6'x6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
  - INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  - REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  - INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
  - INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  - INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  - INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
  - INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
  - INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
  - PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
  - INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  - NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

**NOTES**

- ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.



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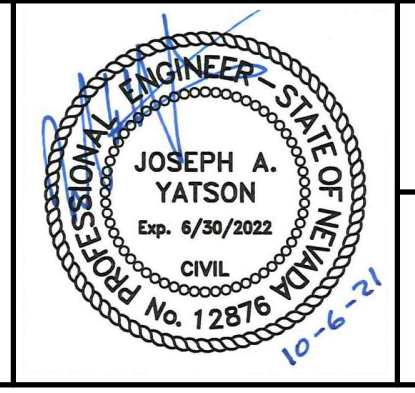


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**STREET LIGHTING/ITS PLAN**

"TRE" 71+00.00 TO "TRE" 80+50.00

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: JAP  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

**GCV**  
ENGINEERS \ SURVEYORS

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

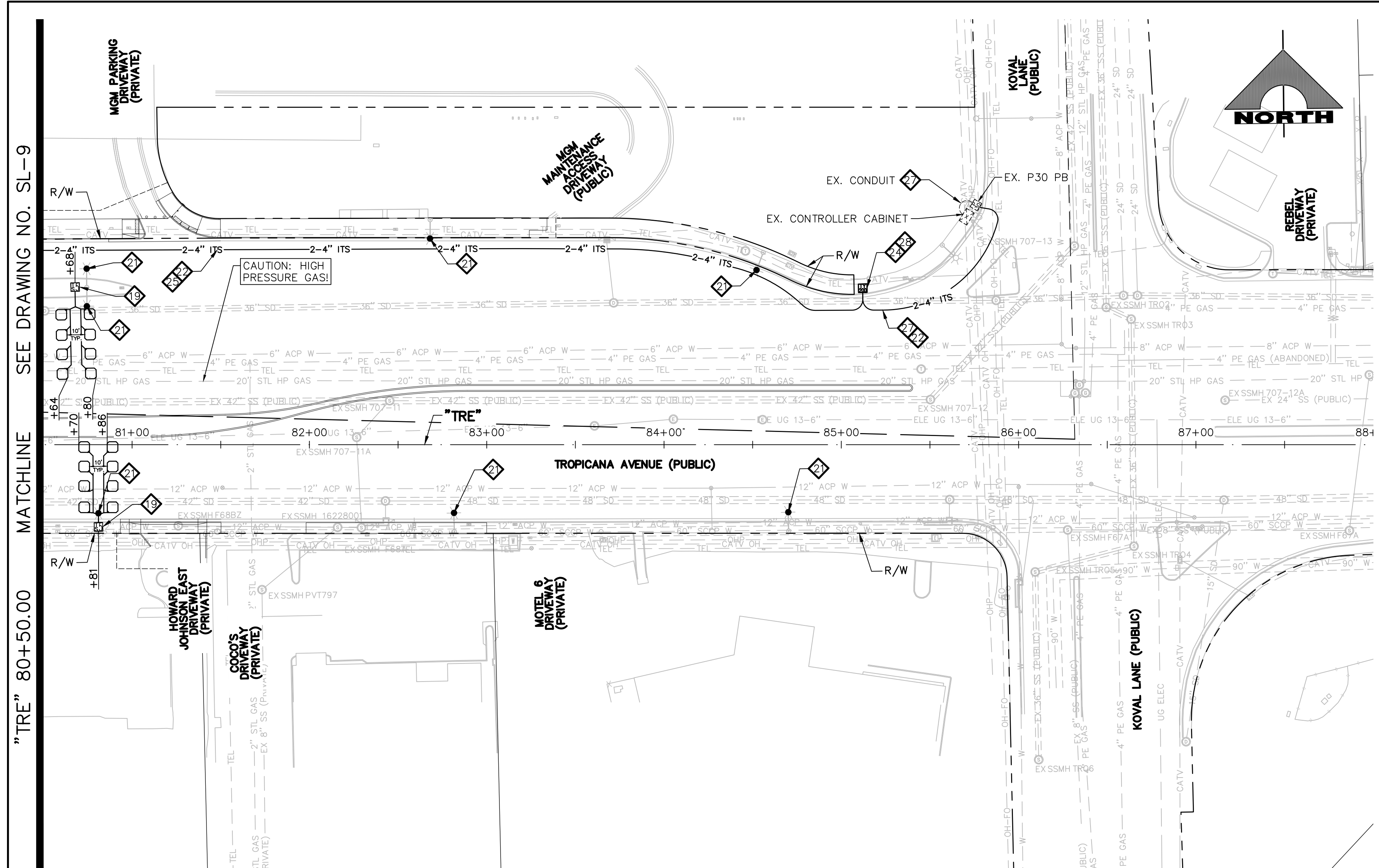
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VERT: NONE  
FIELD BOOK

DRAWING NO.  
**SL-9**  
SHT. 149 OF 169  
L-2304

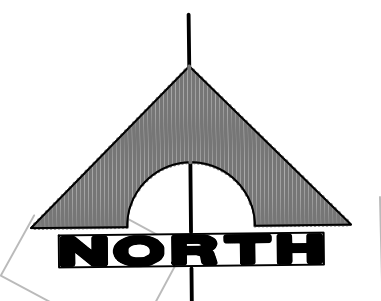
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21





"TRE" 80+50.00 MATCHLINE SEE DRAWING NO. SL-9



**ITS NOTES:**

- CONDUIT ROUTING IS SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- SLACK SHALL BE PROVIDED IN EACH P30 P.B. (30 FT) AND TYPE 200 S.V. (120 FT) UNLESS OTHERWISE NOTED. PULL BOXES, SPLICE VAULTS, AND CONDUIT SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENTS. CONTRACTOR SHALL VERIFY PRIOR TO INSTALLATION.
- ALL EXISTING ITS INFRASTRUCTURE SHALL BE MAINTAINED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.

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

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

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

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES PROJECT NO. 139072 FIRST APPROVED DATE: \_\_\_\_\_

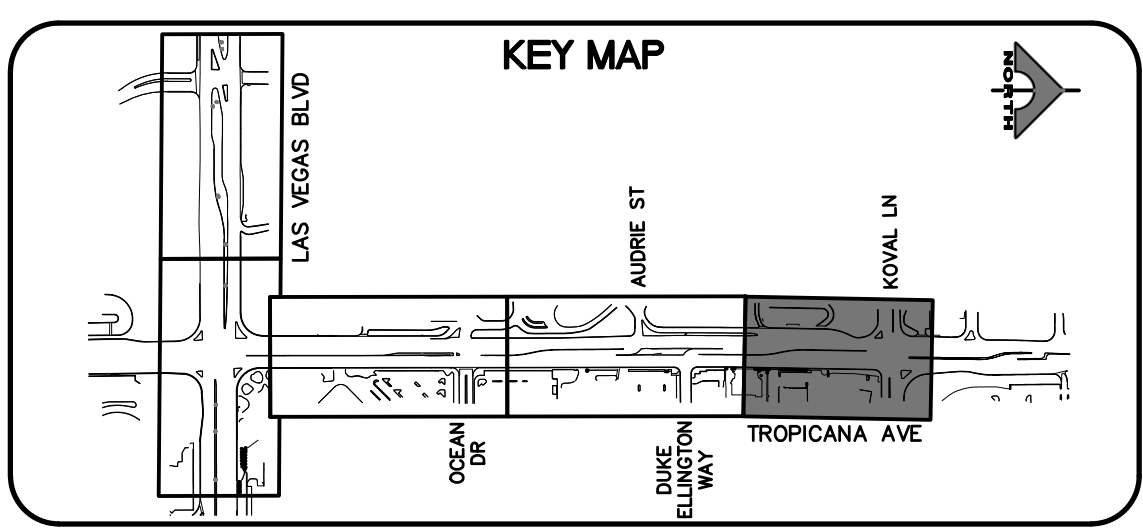
**CLARK COUNTY WATER RECLAMATION DISTRICT**

BY \_\_\_\_\_ DATE \_\_\_\_\_  
CCWRD PIPES NUMBER: **21.983**

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



**WATERLINE SEPARATION NOTE**  
PROVIDE MINIMUM 3-FOOT CLEAR HORIZONTAL SEPARATION BETWEEN DUCT BANKS AND EXISTING/PROPOSED WATERLINES PER UDACS SECTION 2.04.02 AND DETAIL 2 ON DRAWING CDT-7.



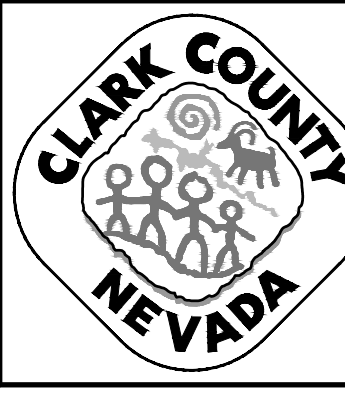
- LIGHTING NOTES**
- INSTALL MAIN POWER DUCT BANK (SEE DETAIL 1, DRAWING CDT-1)
  - INSTALL PRIMARY POWER LATERAL 'A' (SEE DETAIL 2, DRAWING CDT-1)
  - INSTALL PRIMARY POWER LATERAL 'B' (SEE DETAIL 3, DRAWING CDT-1)
  - INSTALL SECONDARY POWER LATERAL (SEE DETAIL 4, DRAWING CDT-1)
  - INSTALL 4'x4' TRAFFIC-RATED ELECTRICAL MANHOLE (SEE DETAIL 1, DRAWING CDT-5) SEE MANHOLE TABLE ON DRAWING SL-7 FOR LOCATION
  - INSTALL NO. 5 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 706)
  - INSTALL NO. 7 PULLBOX W/ EXTENSION (STREET LIGHT/ELECTRICAL) (USDCCA STD. DWG. NO. 707)
  - INSTALL SMART POLE WITH DUAL LUMINAIRES (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  - INSTALL 2-#4, 1-#8 GND IN (1) LIGHTING CONDUIT
  - INSTALL 3-#10 IN (1) LIGHTING CONDUIT
  - INSTALL 1-#8 GND IN (1) LIGHTING CONDUIT
  - INSTALL (1) 3-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE
  - INSTALL (1) 4-INCH PVC CONDUIT (NVE). CONDUCTORS BY NVE (SEE DETAIL 2, DRAWING CDT-11)
  - INSTALL RS-1 PULLBOX (NVE)
  - STUB AND CAP (SEE DETAIL 4, DRAWING CDT-2)
  - INSTALL 400 AMP PAD MOUNT SERVICE PEDESTAL (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  - INSTALL 2-INCH CONDUITS WITH 1-#8 GND IN EACH CONDUIT. NUMBER OF CONDUITS IS SHOWN IN ATTACHED CIRCLE.
  - INSTALL (2) 1 1/4-INCH CONDUITS WITH 2-#4, 1-#8 GND IN ONE CONDUIT AND 1-#8 IN THE OTHER CONDUIT
  - INSTALL (8) 6'x6' COUNT STATION DETECTOR LOOPS WITH NO. 5 P.B. PULL BOX LID SHALL BE MARKED "TRAFFIC COUNTER" (NDOT STD. PLAN NO. TG-21)
  - INSTALL SMART POLE (NO LUMINAIRE) (VALMONT TYPE 5 SMALL CELL STRUCTURE) (SEE DETAILS ON DRAWING CDT-8)
  - REMOVE AND REPLACE STREETLIGHT LUMINAIRE WITH 122W LED.
  - INSTALL (2) 4-INCH PVC CONDUITS WITH PULL STRINGS AND 1-#6 PAIR REA-PE 39 #22 AWG.
  - INSTALL P30 PULLBOX (USDCCA STD. DWG. NO. 761).
  - INSTALL TYPE 200 SV (USDCCA STD. DWG. NO. 762).
  - INSTALL 1-144-STRAND FIBER OPTIC CABLE AND 1-#6 PAIR REA-PE 39 #22 AWG.
  - INTERCEPT EXISTING FIBER OPTIC CABLE AND CONNECT TO NEW FIBER OPTIC CABLE AT ITS VAULT USING APPROVED SPLICING METHOD.
  - INSTALL 12-STRAND CDCA AND 1-#6 PAIR REA-PE 39 #22 AWG.
  - PERFORM FIBER OPTIC SPLICE IN UNDERGROUND SPLICE ENCLOSURE (SEE DETAIL A, DRAWING SL-12)
  - INSTALL 400 AMP PAD MOUNT SWITCH GEAR (SEE DETAILS ON DRAWING CDT-11) (USDCCA STD. DWG. NO. 331)
  - NUMBER OF CARRIER POWER CONDUITS SEE DETAIL 1, DRAWING CDT-1.

**NOTES**

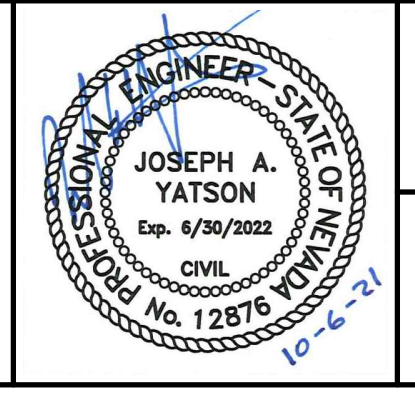
- ALL EMPTY CONDUIT SHALL CONTAIN PULL STRING, AND BE CAPPED WITHIN PULLBOXES AND MANHOLES.



REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**STREET LIGHTING/ITS PLAN**  
"TRE" 80+50.00 TO "TRE" 88+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: JAP  
DESIGNED BY: JAY CHECKED BY: TAM  
APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS  
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
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SCALE  
HORIZ: AS SHOWN  
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FIELD BOOK

DRAWING NO.  
**SL-10**  
SHT. 150 OF 169  
L-2304

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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F) BID NO.: 603976-21



**SP1 - NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 149+80, RT. - 400' SOUTH OF TROPICANA)(SEE DWG SL-2)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING - CIRCUIT "A")  
 ONE (1) 30 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "A")  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 FIVE (5) 60 AMP, 240 V., 2-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT A	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		240	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS		4	4.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		4.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		20.00	

**SP2 - NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 161+50, RT.)(SEE DWG SL-3)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING - CIRCUIT "B")  
 ONE (1) 30 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "B")  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 SIX (6) 60 AMP, 240 V., 2-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT B	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		240	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS		5	5.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		5.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		19.00	

**SP3 - NEW 400 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 161+58, RT.)(SEE DWG SL-3)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 240 V., 2-POLE BREAKER (STREET LIGHTING - CIRCUIT "C")  
 ONE (1) 30 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "C")  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 SIX (6) 60 AMP, 240 V., 2-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT C	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		240	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 240V = 1.00 AMPS		6	6.00
442 WATT SINGLE LUMINAIRES AT 240V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		6.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		18.00	

**SP4 - NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR**  
 ("LVB" 170+35, RT.)(SEE DWG SL-4)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING - CIRCUIT "D")  
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "D")  
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 SIX (6) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT D	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		277	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS		5	4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		4.50	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		19.50	

**SP5 - NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR**  
 ("LVB" 180+55, RT.)(SEE DWG SL-5)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING - CIRCUIT "E")  
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "E")  
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 SIX (6) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT E	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		277	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS		5	4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		4.50	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		19.50	

**SP6 - EXISTING 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 180+60, RT.)(SEE DWG SL-5)

- VERIFY AND/OR MODIFY TO INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (EXISTING CIRCUITS)  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTORS (EXISTING CIRCUITS)  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (SMART POLE)

CIRCUIT NAME:		CIRCUIT F	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		277	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS		5	4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		4.50	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		19.50	

**SP7 - NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR**  
 ("LVB" 186+50, RT.)(SEE DWG SL-6)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING - CIRCUIT "F")  
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "F")  
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 SIX (6) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT F	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		277	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS		5	4.50
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		4.50	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		19.50	

**SP8 - NEW 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR**  
 ("LVB" 189+35, RT.)(SEE DWG SL-6)

- INCLUDE THE FOLLOWING:  
 ONE (1) 30 AMP, 277 V., 1-POLE BREAKER (STREET LIGHTING - CIRCUIT "G")  
 ONE (1) 30 AMP, 277 V., 1-POLE CONTACTOR (STREET LIGHTING - CIRCUIT "G")  
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 FOUR (4) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT G	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		277	
CIRCUIT CAPACITY:		30	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		24	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS		1	0.90
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		0.90	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		23.10	

**SG3 - EXISTING 400 AMP, 277/480 VOLT, 4 WIRE, THREE PHASE, PADMOUNT SWITCH GEAR**  
 ("LVB" 196+30, LT.)(SEE DWG SL-7)

- VERIFY AND/OR MODIFY TO INCLUDE THE FOLLOWING:  
 TWO (2) 20 AMP, 277 V., 1-POLE BREAKERS (STREET LIGHTING - CIRCUITS "H" & EXISTING CIRCUIT TO FLAMINGO)  
 TWO (2) 20 AMP, 277 V., 1-POLE CONTACTORS (STREET LIGHTING - CIRCUITS "H" & EXISTING CIRCUIT TO FLAMINGO)  
 ONE (1) 15 AMP, 277 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 20 AMP, 277 V., 1-POLE BREAKER (WIRELESS PROVIDER)  
 THREE (3) 60 AMP, 277 V., 1-POLE BREAKERS (SMART POLES)

CIRCUIT NAME:		CIRCUIT H	
CIRCUIT TYPE:		STREET LIGHTING	
VOLTAGE:		277	
CIRCUIT CAPACITY:		20	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:		16	
EXISTING CIRCUIT LOAD AMPS =		0	
PROPOSED LOAD TO CIRCUIT:		QTY.	AMPS
120 WATT DUAL LUMINAIRES AT 277V = 0.90 AMPS		3	2.70
442 WATT SINGLE LUMINAIRES AT 277V = 1.85 AMPS		0	0
EXISTING PLUS PROPOSED LOAD AMPS =		2.70	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =		13.30	

**SP9 - NEW 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("LVB" 190+42, RT.)(SEE DWG TS-12)

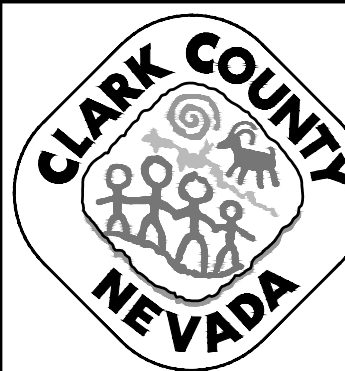
- INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING - FUTURE CIRCUITS)  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING - FUTURE CIRCUITS)  
 FOUR (4) 30 AMP, 120 V., 1-POLE BREAKERS (INTERSECTION LIGHTING)  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)

**SP10 - NEW 200 AMP, 120/240 VOLT, 3 WIRE, SINGLE PHASE, PADMOUNT SERVICE PEDESTAL**  
 ("TRE" 68+10, LT.)(SEE DWG TS-15)

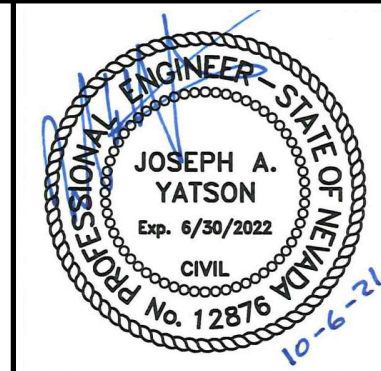
- INCLUDE THE FOLLOWING:  
 TWO (2) 60 AMP, 240 V., 2-POLE BREAKERS (STREET LIGHTING - FUTURE CIRCUITS)  
 TWO (2) 60 AMP, 240 V., 2-POLE CONTACTOR (STREET LIGHTING - FUTURE CIRCUITS)  
 FOUR (4) 30 AMP, 120 V., 1-POLE BREAKERS (INTERSECTION LIGHTING)  
 ONE (1) 15 AMP, 120 V., 1-POLE BREAKER (PHOTOCELL CONTROL)  
 ONE (1) 60 AMP, 120 V., 1-POLE BREAKER (TRAFFIC SIGNAL)

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REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**CIRCUIT CAPACITY VERIFICATIONS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 500-897-LV-EF DRAWN BY: AV  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_

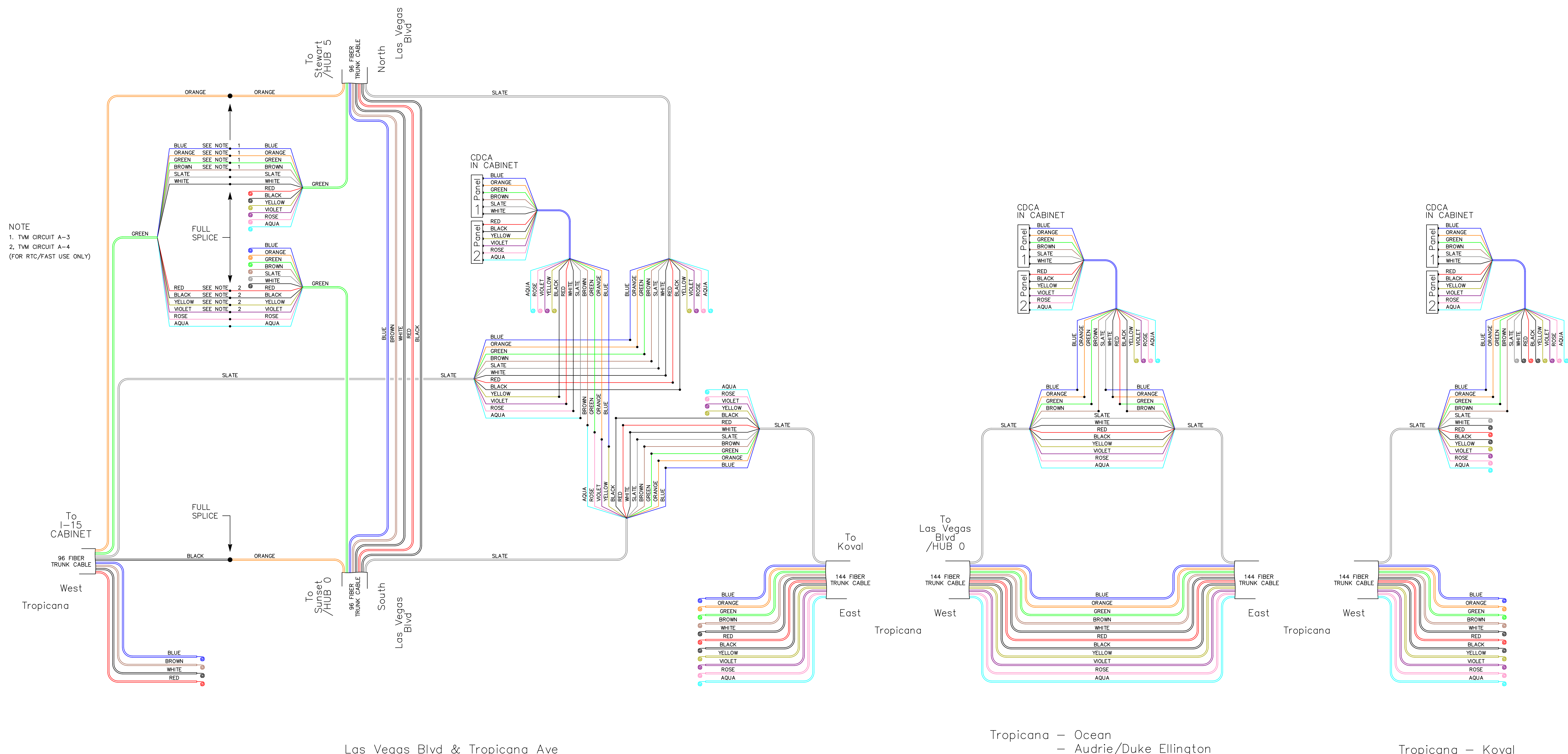
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE	DRAWING NO.
HORIZ: NONE	SL-11
VERT: NONE	SHT. 151 OF 169
FIELD BOOK	L-2304

BID NO.: 603976-21



NOTE  
 1. TVM CIRCUIT A-3  
 2. TVM CIRCUIT A-4  
 (FOR RTC/FAST USE ONLY)



To I-15 CABINET  
 96 FIBER TRUNK CABLE  
 West  
 Tropicana  
 BLUE  
 BROWN  
 WHITE  
 RED

To Stewart /HUB 5  
 96 FIBER TRUNK CABLE  
 North  
 Las Vegas Blvd

To Sunset /HUB 0  
 96 FIBER TRUNK CABLE  
 South  
 Las Vegas Blvd

To Koval  
 144 FIBER TRUNK CABLE  
 East  
 Tropicana

To Las Vegas Blvd /HUB 0  
 144 FIBER TRUNK CABLE  
 West  
 Tropicana

To Las Vegas Blvd /HUB 0  
 144 FIBER TRUNK CABLE  
 East  
 Tropicana

To Sunset /HUB 0  
 144 FIBER TRUNK CABLE  
 West  
 Tropicana

Las Vegas Blvd & Tropicana Ave

Tropicana - Ocean  
 - Audrie/Duke Ellington

Tropicana - Koval

Splice = ●  
 Future Intersection = Fut

TROPICANA AVE SPLICE DIAGRAMS - LAS VEGAS BLVD TO KOVAL LN  
 A  
 SL-12

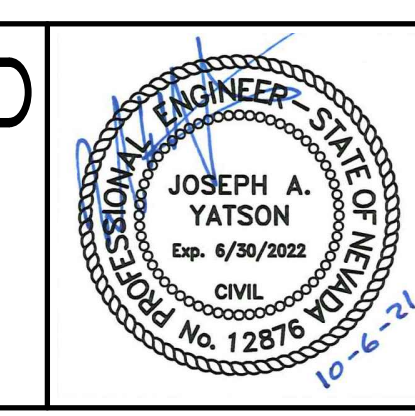
REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SPLICE DIAGRAMS**

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



PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: JAY CHECKED BY: TAM  
 APPROVED BY: \_\_\_\_\_

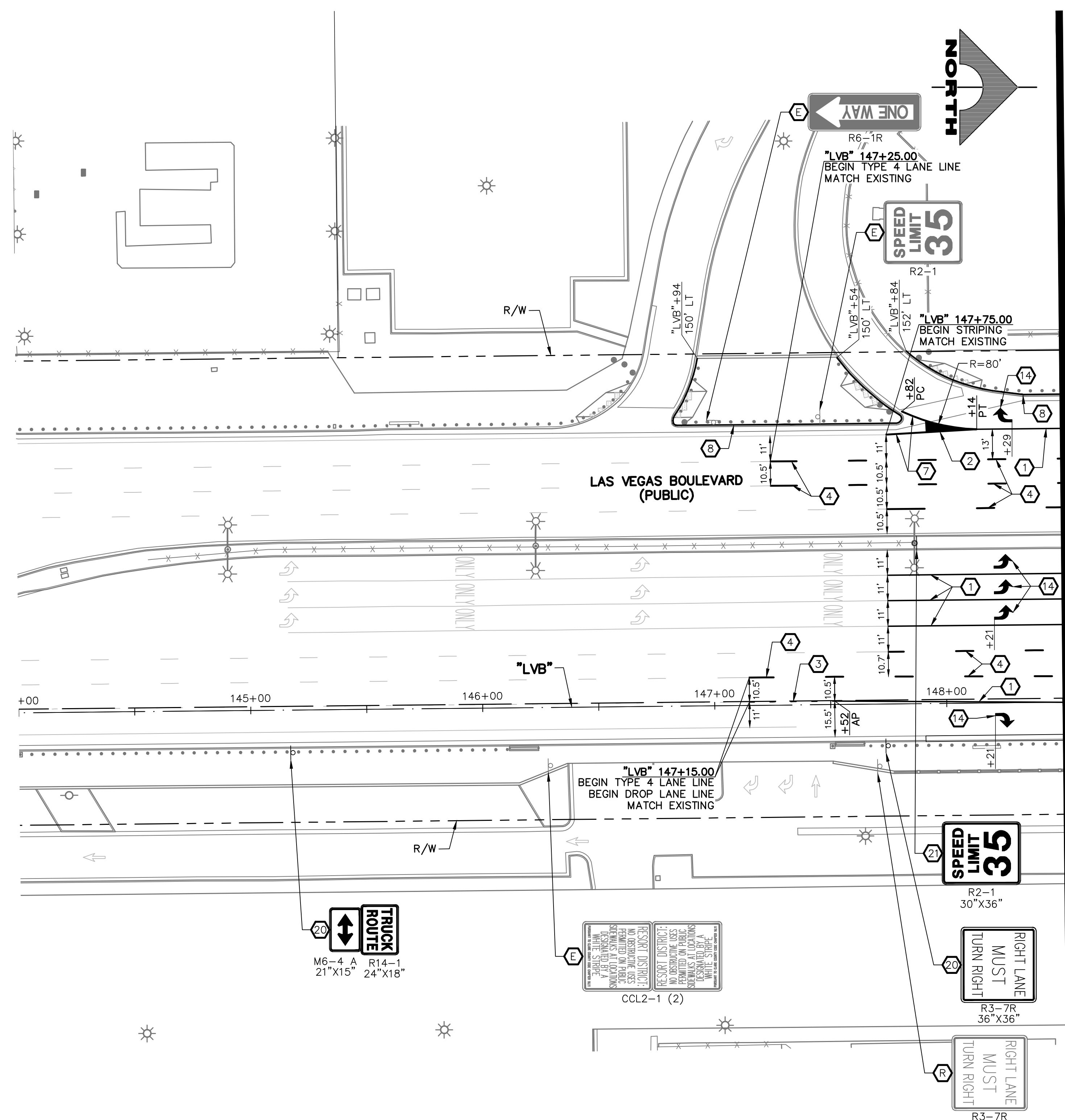
**GCV** ENGINEERS \ SURVEYORS  
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SCALE	DRAWING NO.
HORIZ: NONE	SL-12
VERT: NONE	SHT. 152 OF 169
FIELD BOOK	L-2304

BID NO.: 603976-21



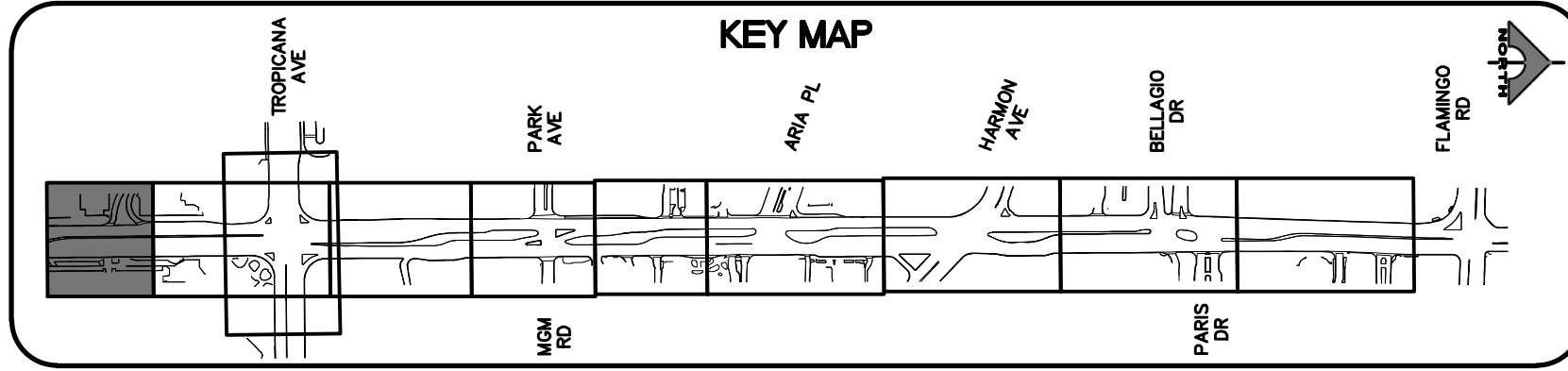
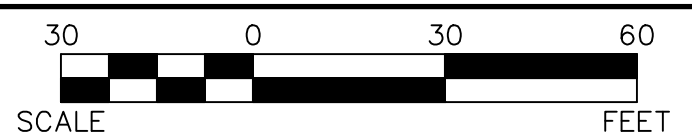
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SEE DRAWING NO. ST-2  
MATCHLINE  
"LVB" 148+50.00

- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
  - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 22 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
  - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
  - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - 28 EXISTING SIGN(S) TO REMAIN
  - 29 REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!**

**CALL BEFORE YOU DIG OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

Avoid hitting underground utility lines. It's costly.

**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

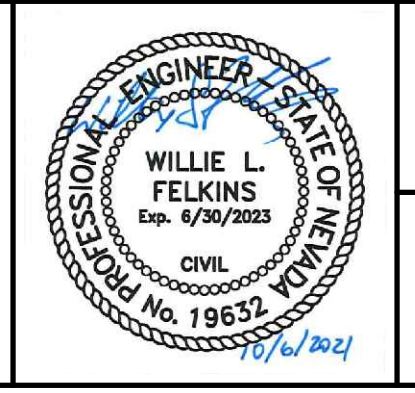


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



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

**GCV**  
ENGINEERS \ SURVEYORS

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

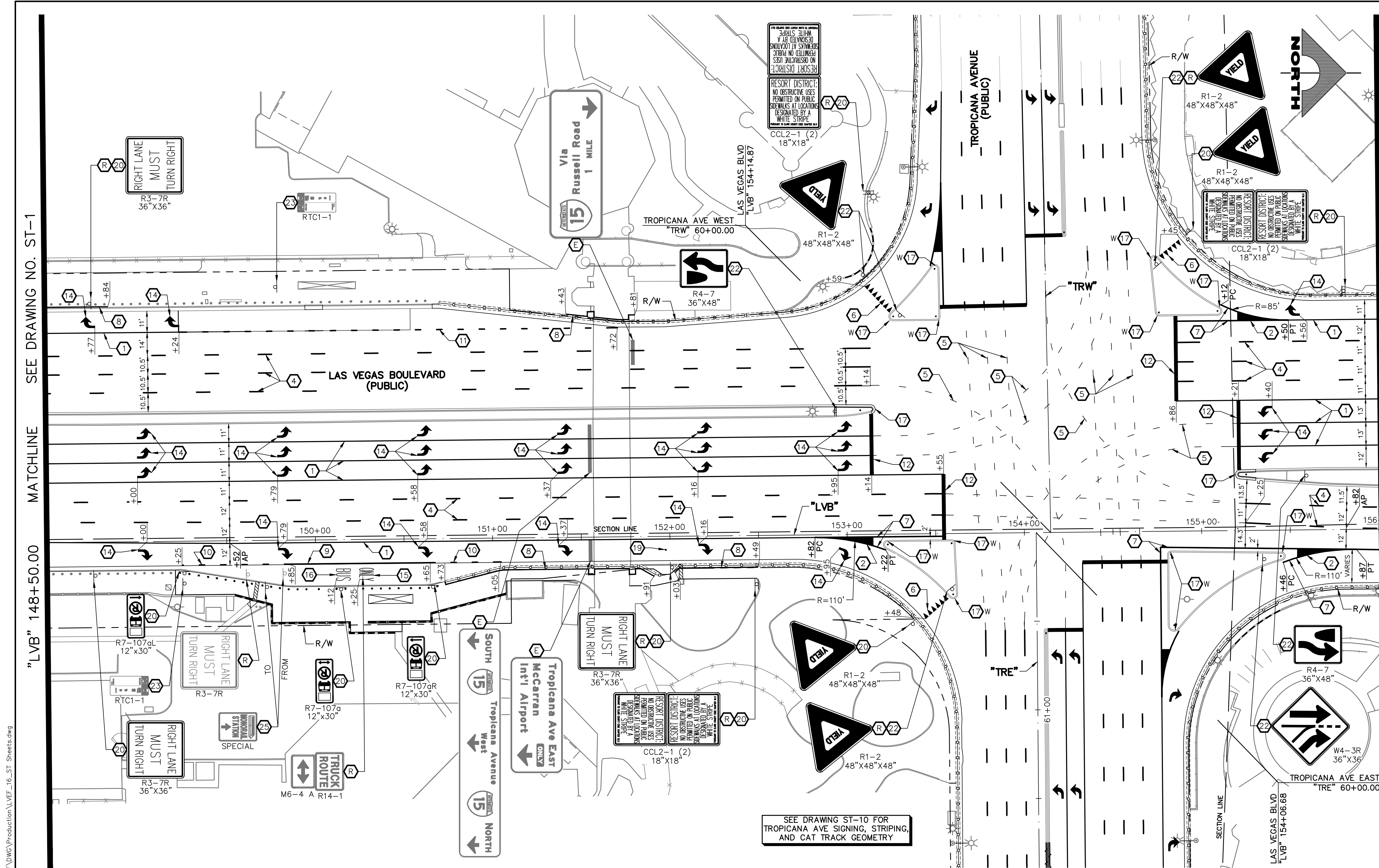
SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK

DRAWING NO.  
**ST-1**  
SHT. 153 OF 169  
L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)    BLD NO.: 603976-21

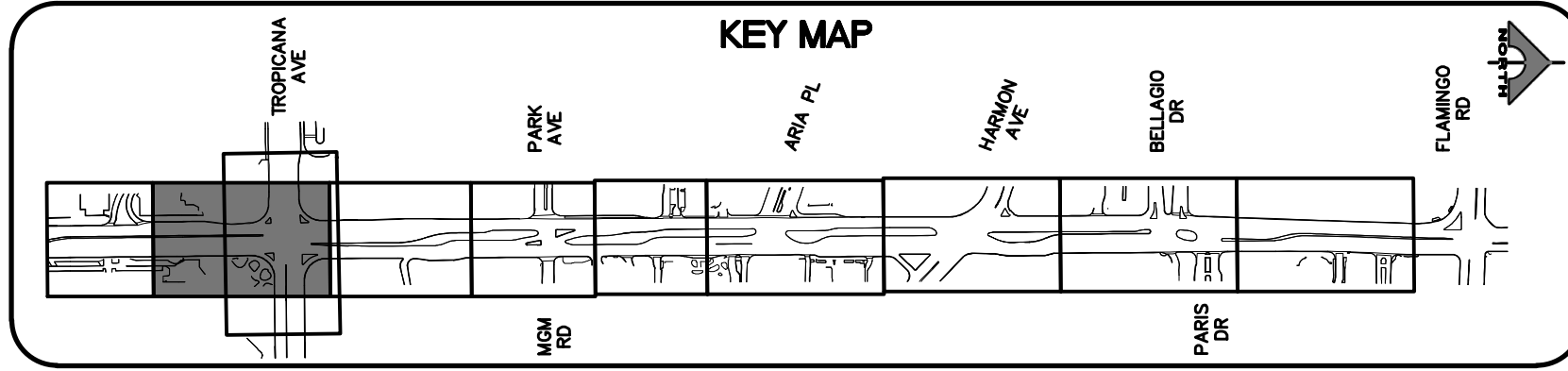
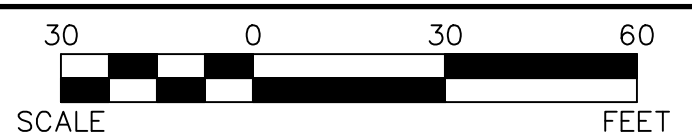


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254.1)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
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  - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 22 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
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  - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
  - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
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  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - 28 EXISTING SIGN(S) TO REMAIN
  - 29 REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
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  7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**CALL BEFORE YOU DIG**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. IT'S DANGEROUS. IT'S ILLEGAL.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY. IT'S DANGEROUS. IT'S ILLEGAL.

**Call 811**

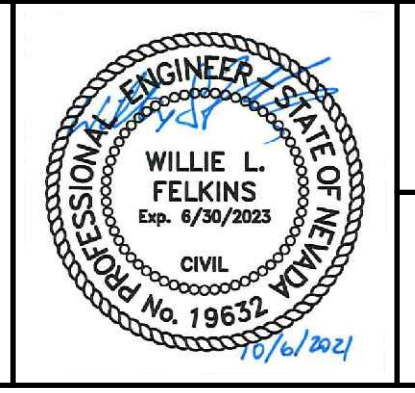
OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED



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



PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: DSH CHECKED BY: JRT  
 APPROVED BY: **GCV**  
 ENGINEERS \ SURVEYORS

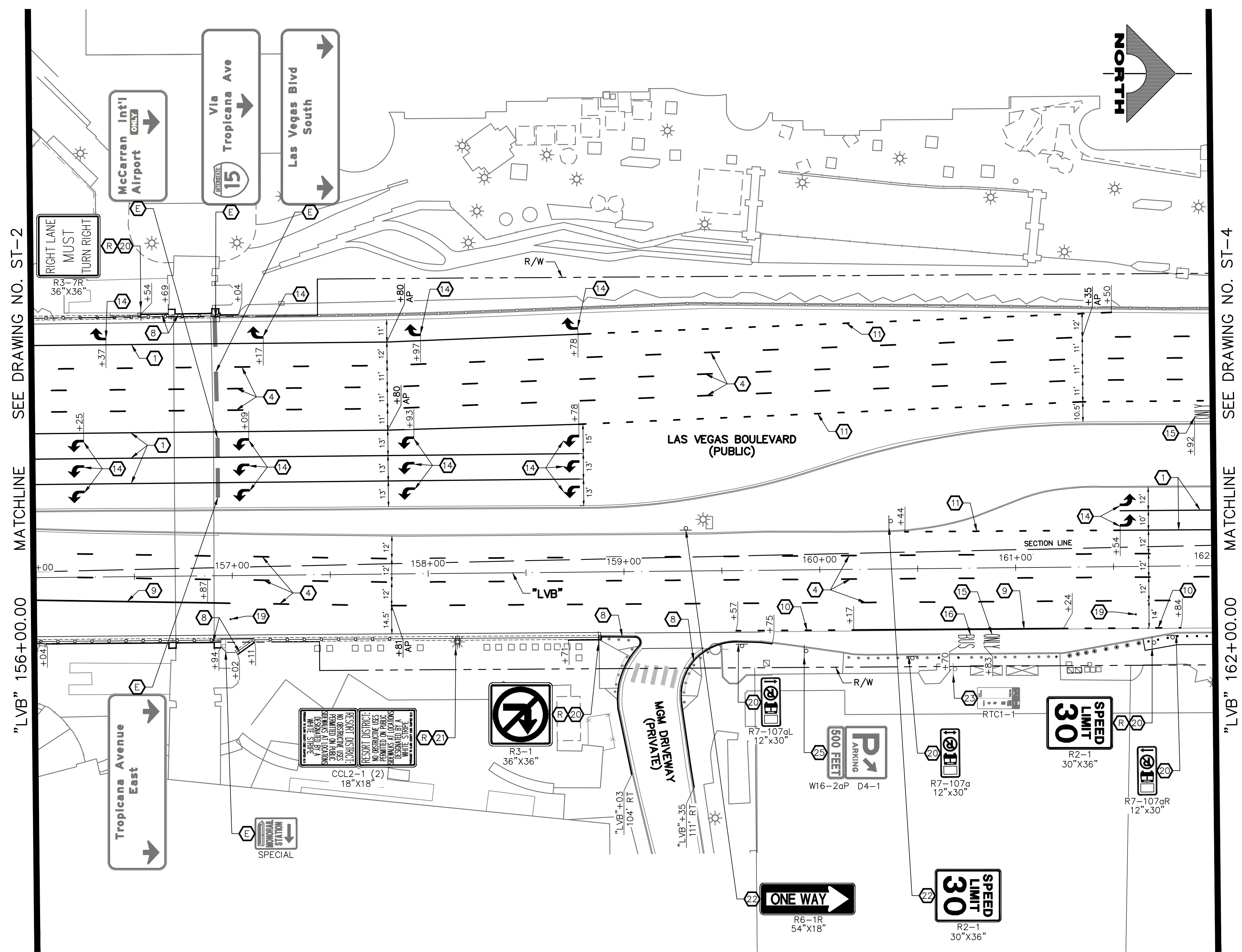
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gwengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-2</b>
VERT: NONE	SHT. 154 OF 169
FIELD BOOK	L-2304

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

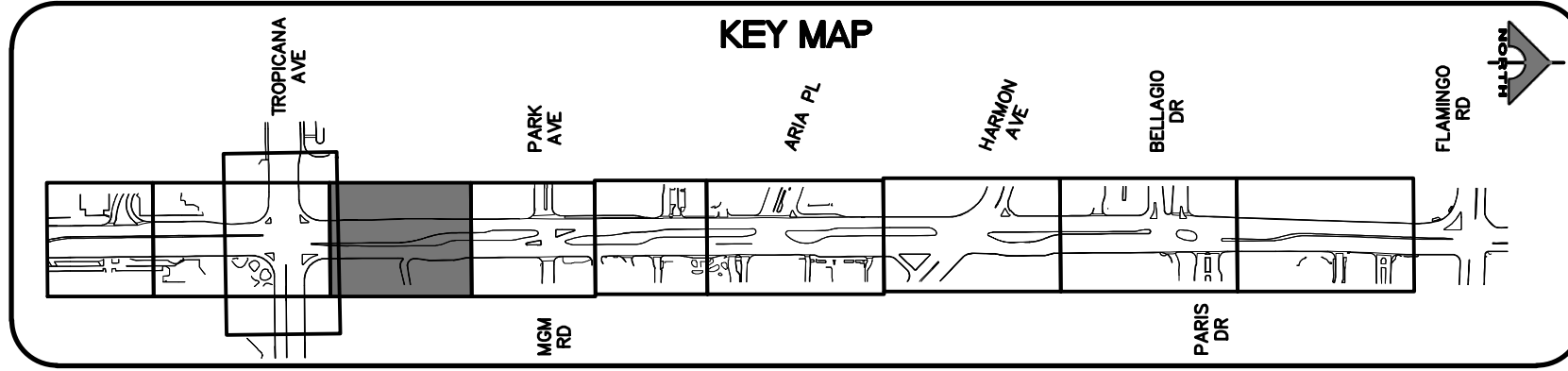
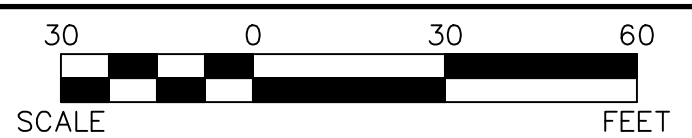


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254.1)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
  - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
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  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
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AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DIG**

**1-702-227-2929**

**FAST**

Call before you UnderGround.

**1-702-432-5300**

FREEWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig

Utility lines. It's costly.

Call **811**

OR

1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

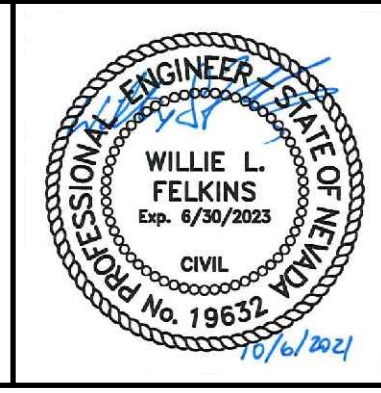


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



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

DESIGNED BY: DSH    CHECKED BY: JRT

APPROVED BY: **GCV**

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

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

ST-3

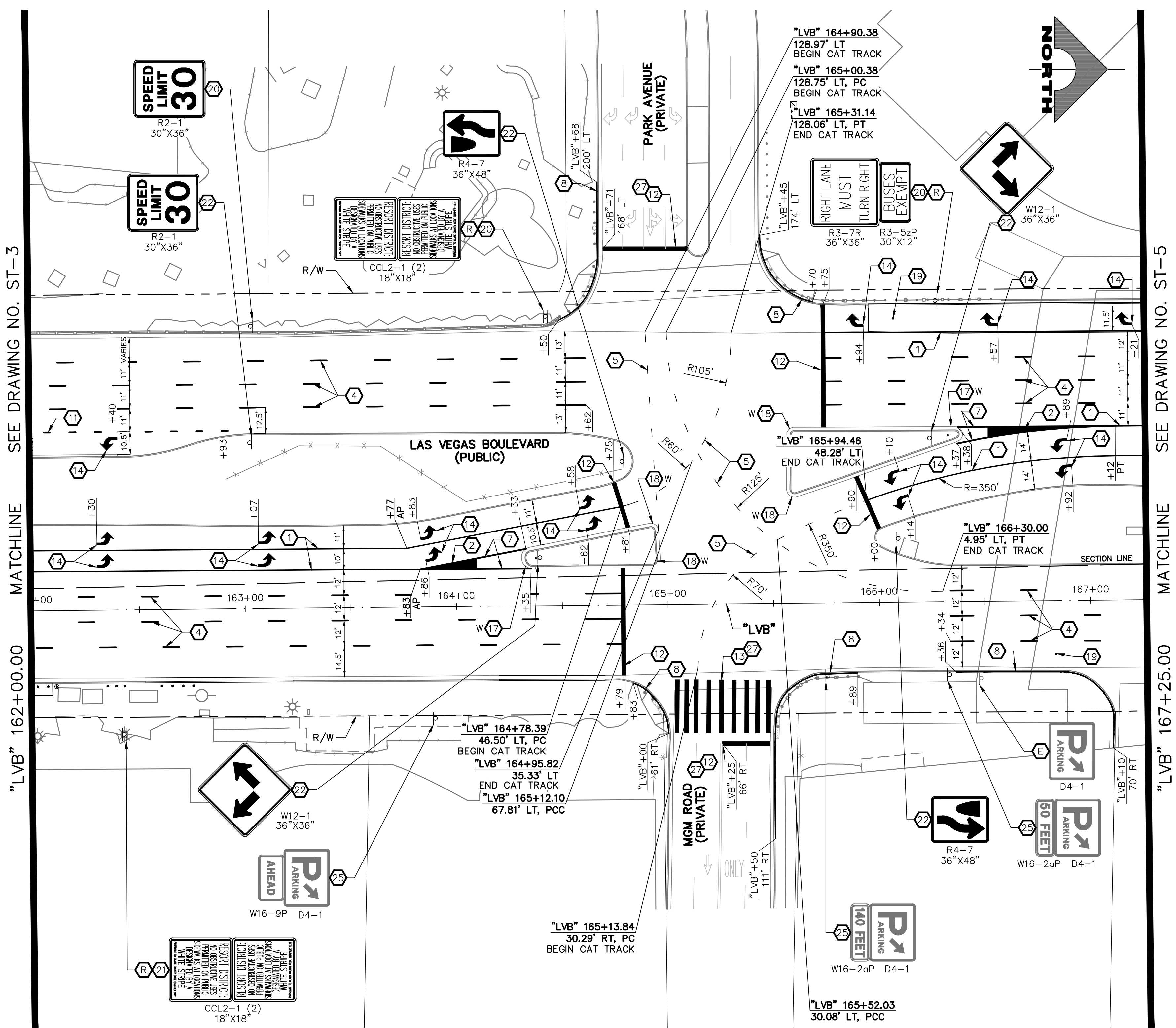
SHT. 155 OF 169

L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)    BLD NO.: 605976-21

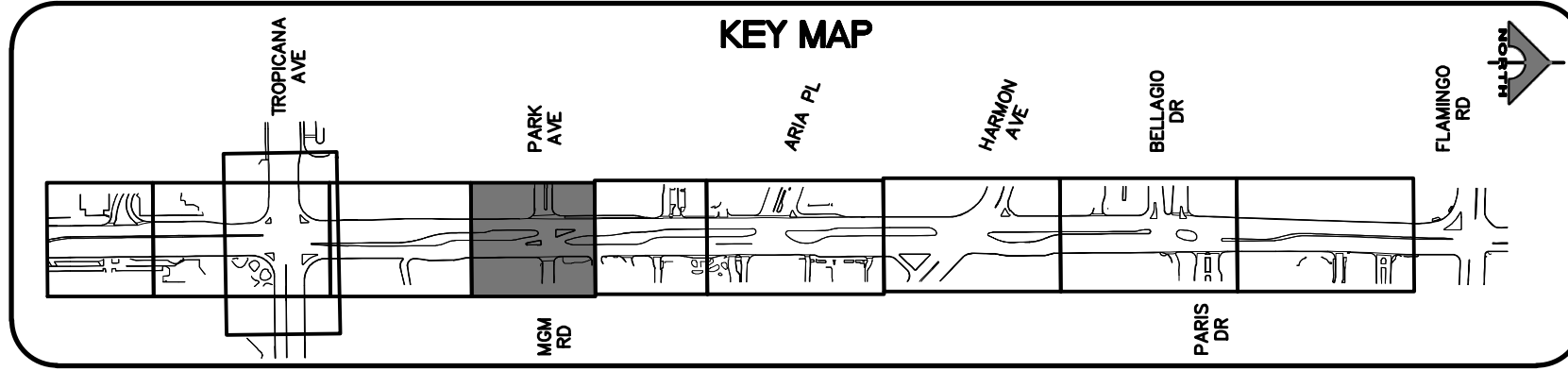
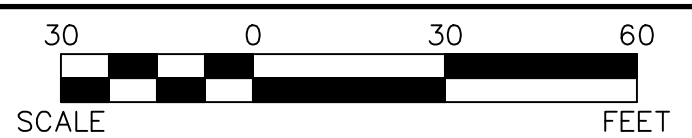


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
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  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
  - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 22 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
  - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
  - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - 28 EXISTING SIGN(S) TO REMAIN
  - 29 REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**CALL BEFORE YOU DIG OVERHEAD**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

1-702-432-5300

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL BEFORE YOU DO UNDERGROUND.

**811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

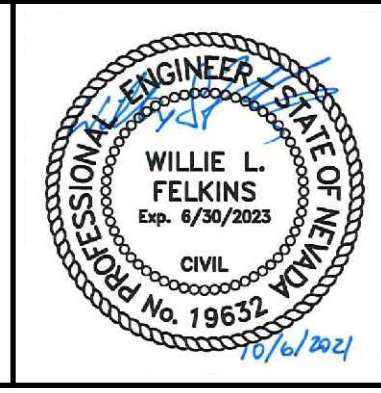


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

**"LVB" 162+00.00 TO "LVB" 167+25.00**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

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

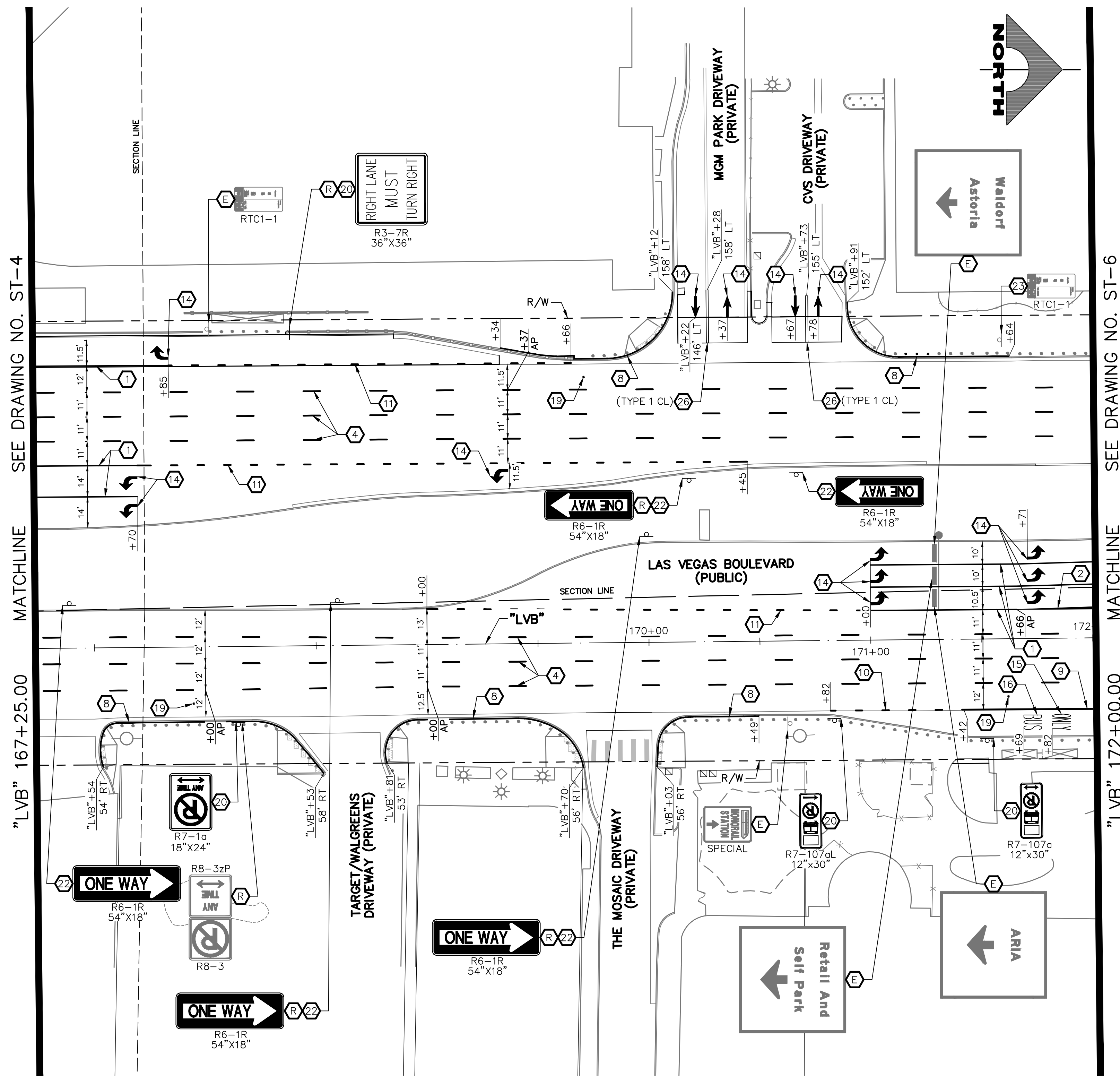
SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK

DRAWING NO.  
**ST-4**  
 SHT. 156 OF 169  
 L-2304

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

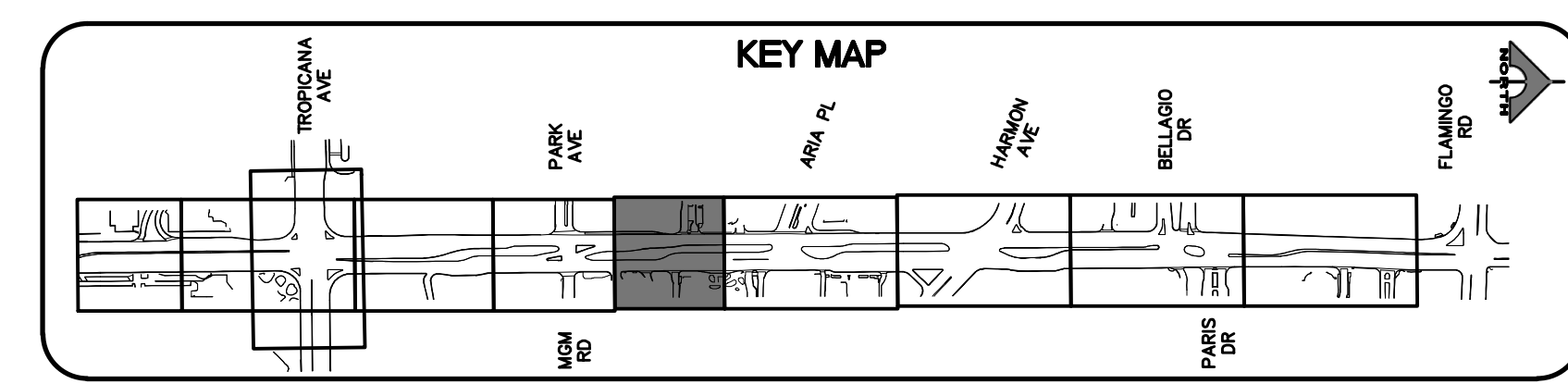
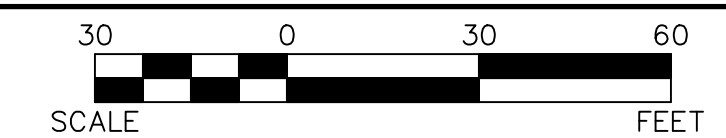


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254.1)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
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  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
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  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

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  7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!**

**CALL BEFORE YOU DO OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

Avoid hitting underground utility lines. It's costly.

**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

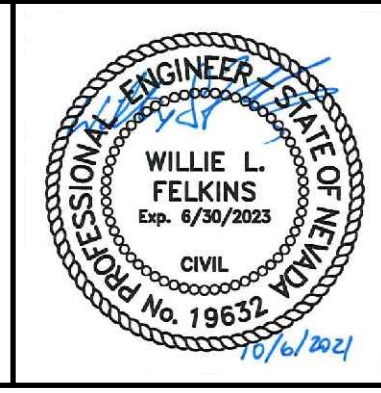


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

**"LVB" 167+25.00 TO "LVB" 172+00.00**

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



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

GCV

ENGINEERS \ SURVEYORS

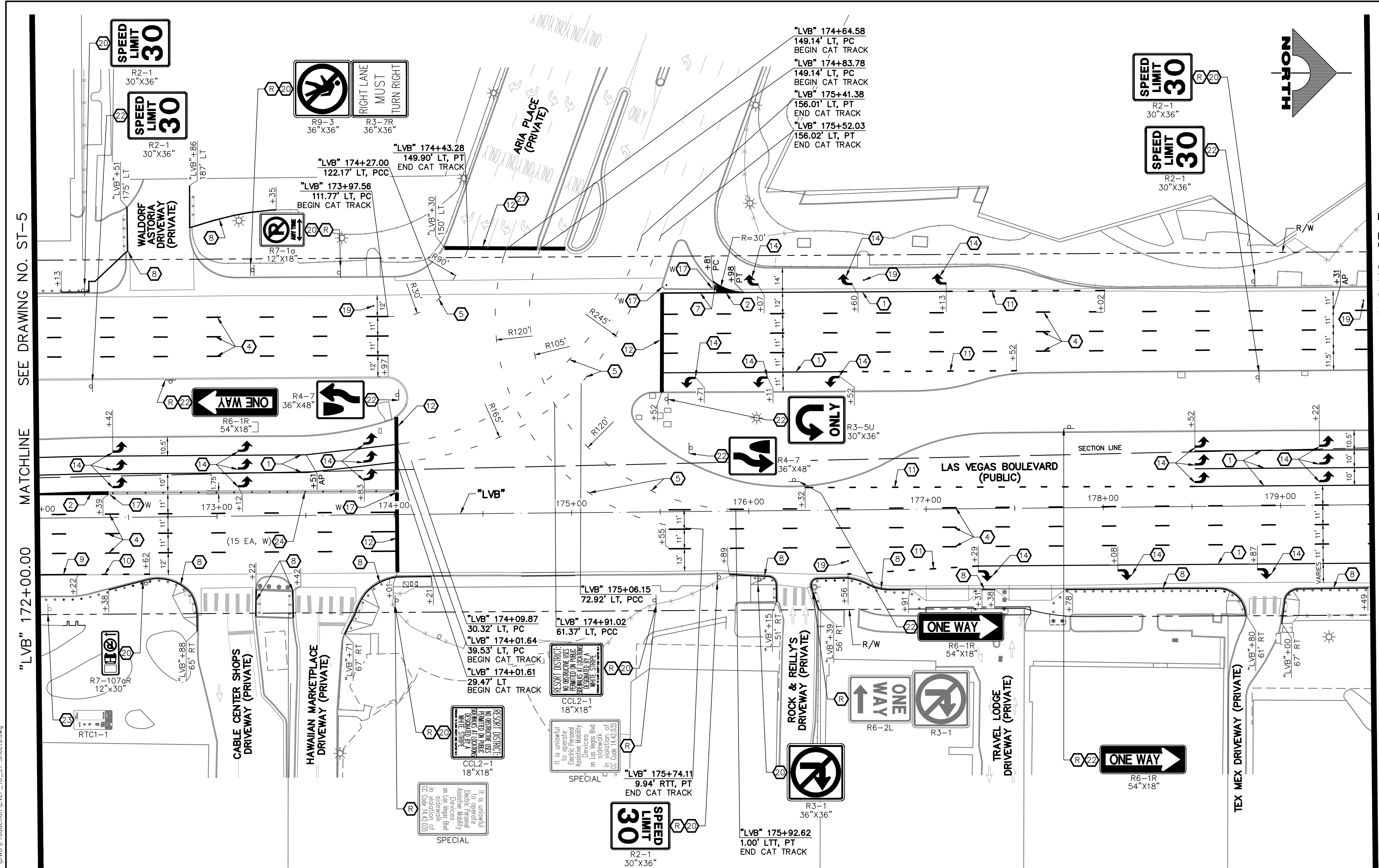
1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gwengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-5
VERT: NONE	SHT. 157 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)    BLD NO.: 603976-21

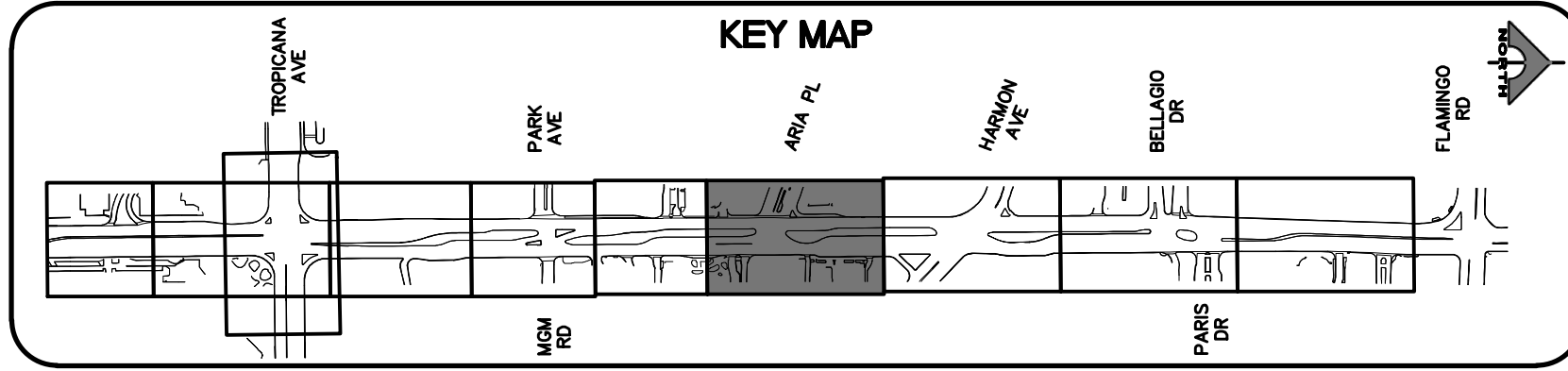
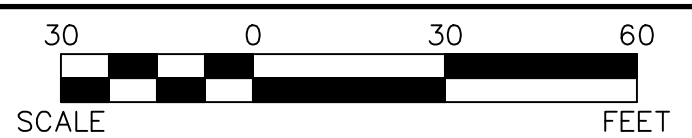


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
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  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
  - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
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  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
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  - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
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  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - 28 EXISTING SIGN(S) TO REMAIN
  - 29 REMOVE AND SALVAGE SIGN(S)

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  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
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**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!**

**CALL BEFORE YOU DIG OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

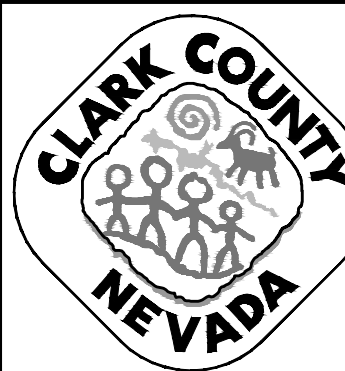
**Call before you Dig**

**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

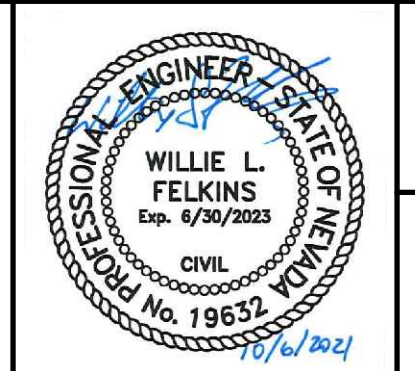


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



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

**GCV**  
ENGINEERS \ SURVEYORS

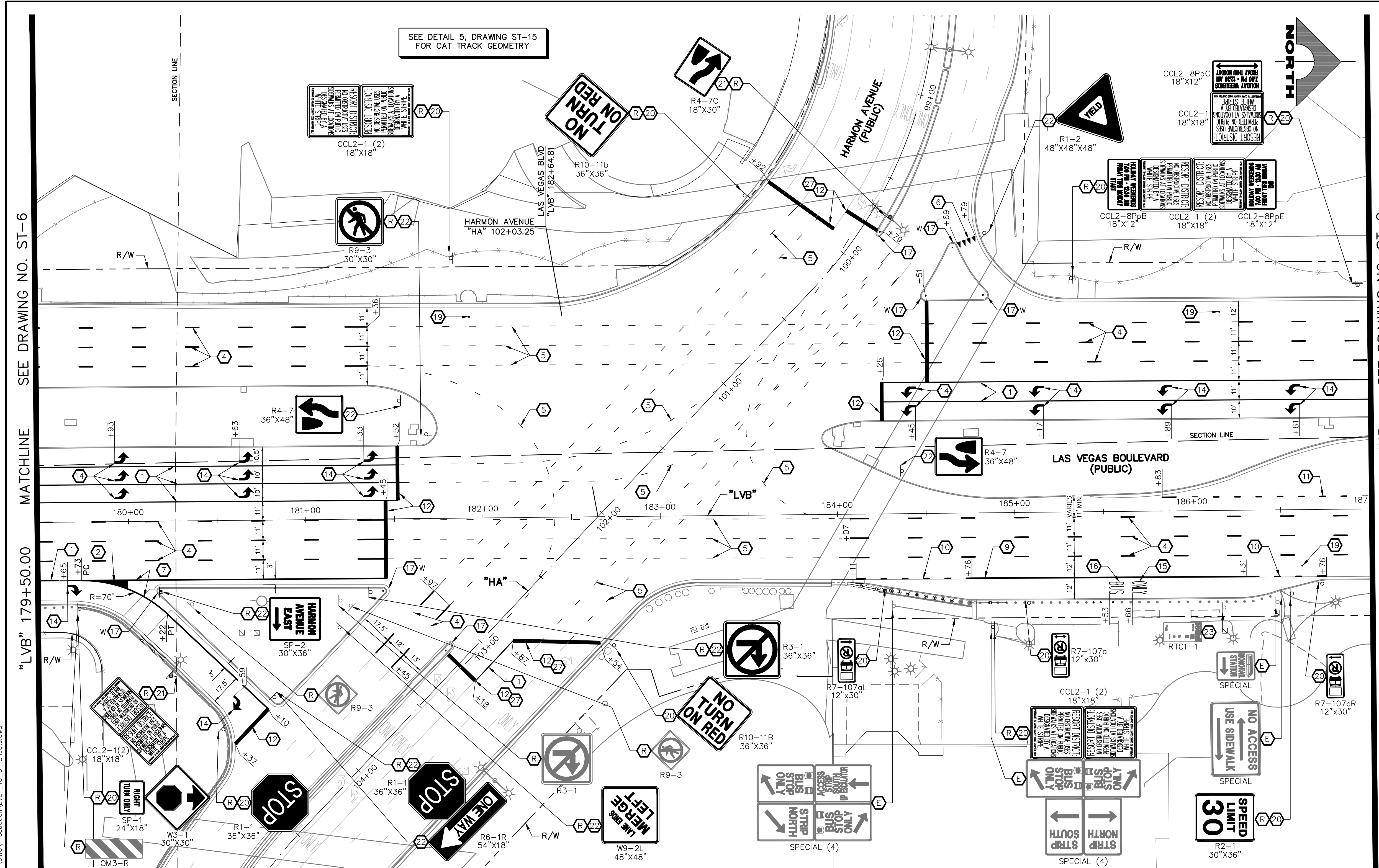
1555 S. RAINBOW BLVD.  
LAS VEGAS, NV 89146  
T: 702.804.2000  
F: 702.804.2299  
gcvengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-6</b>
VERT: NONE	SHT. 158 OF 169
FIELD BOOK	L-2304

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

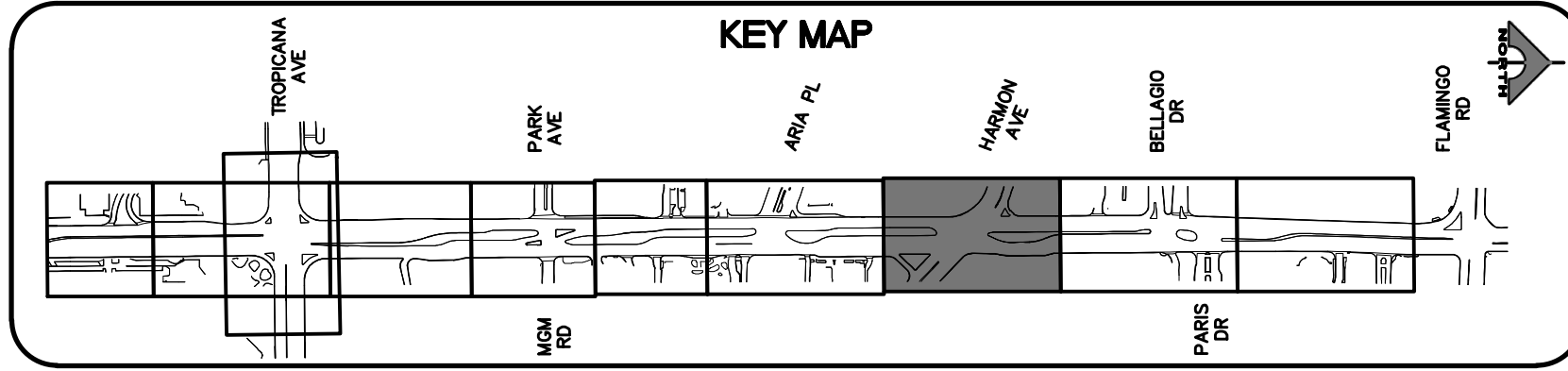
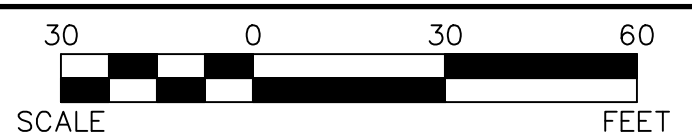


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- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
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  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
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- ### TRAFFIC NOTES
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**CALL BEFORE YOU DIG**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. IT'S DANGEROUS. IT'S ILLEGAL.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY. IT'S DANGEROUS. IT'S ILLEGAL.

**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

## LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD

### SIGNING AND STRIPING PLAN

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

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

**WILLIE L. FELKINS**  
Exp. 6/30/2023  
CIVIL

**GCV**  
ENGINEERS \ SURVEYORS

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

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

DESIGNED BY: DSH    CHECKED BY: JRT

APPROVED BY: \_\_\_\_\_

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

# ST-7

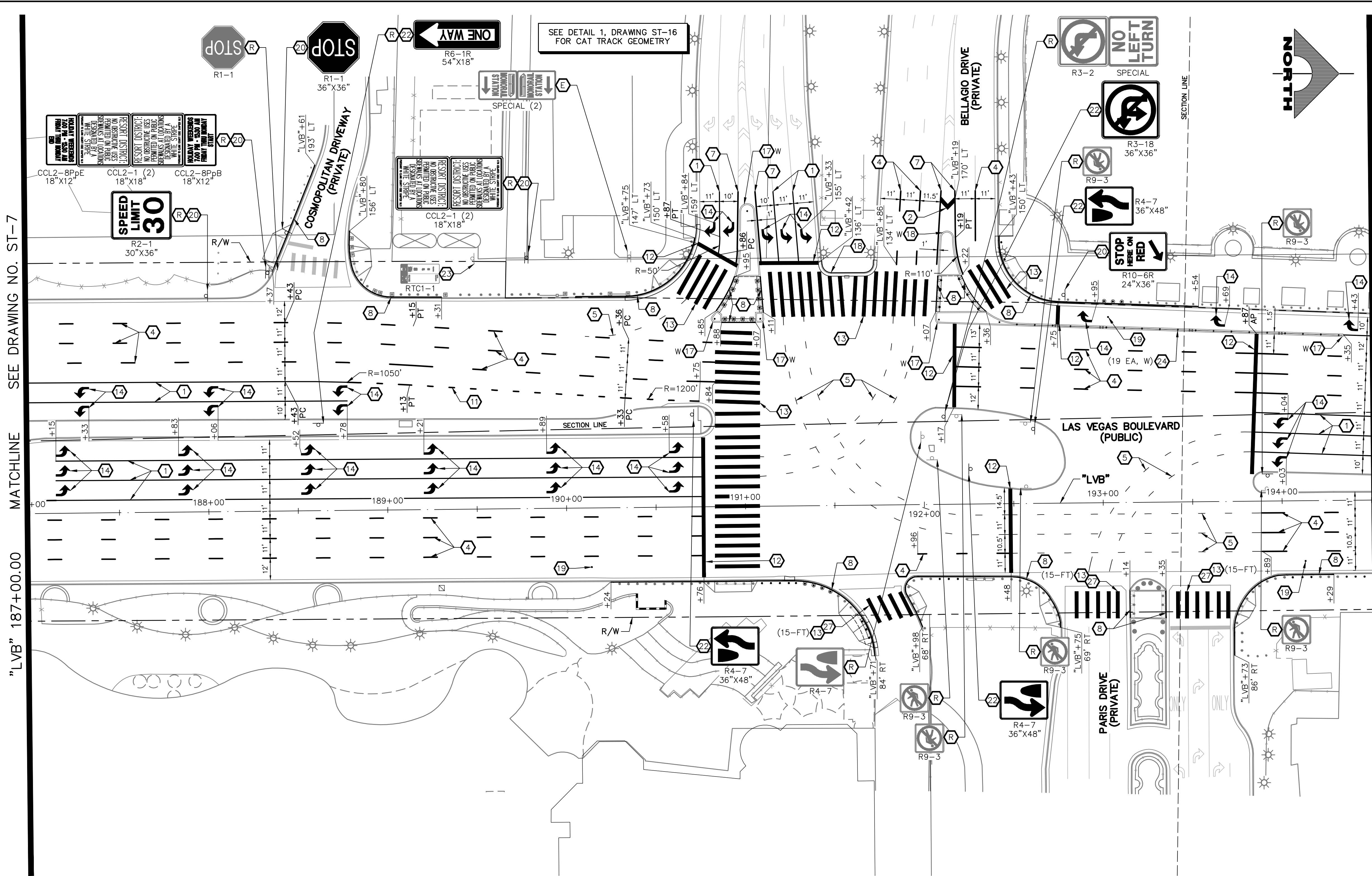
SHT. 159 OF 169

L-2304

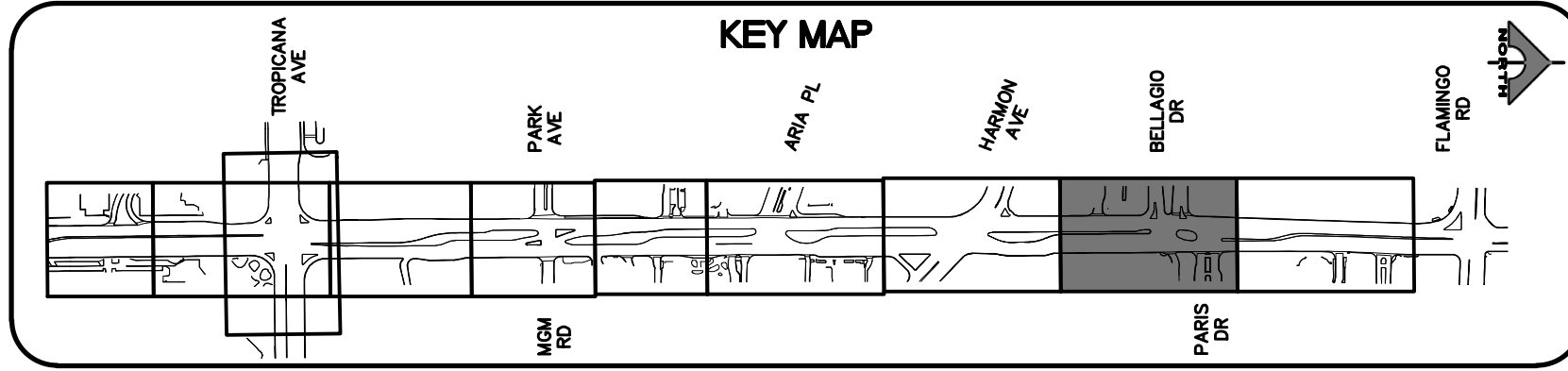
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)



10-13-21 11:59:05 F:\Projects\500-500-897-LV-EF\DWG\Production\LVB\_ST\_Sheets.dwg



- SIGNING AND STRIPING NOTES**
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
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  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
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  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - 28 EXISTING SIGN(S) TO REMAIN
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**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!**  
CALL BEFORE YOU DIG OVERHEAD  
1-702-227-2929

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

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

REV. NO.	DATE	DESCRIPTION	APPROVED

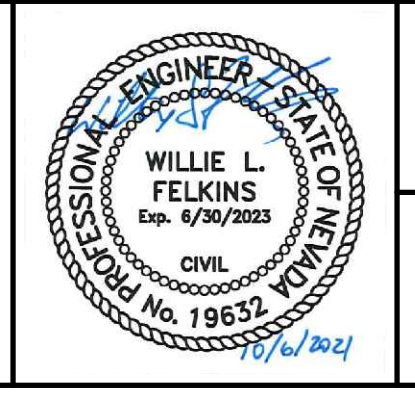
**CLARK COUNTY NEVADA**

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



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

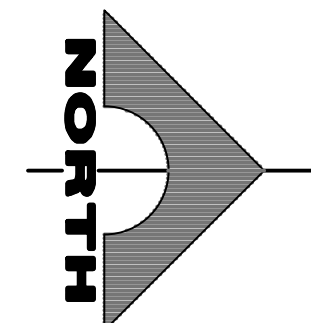
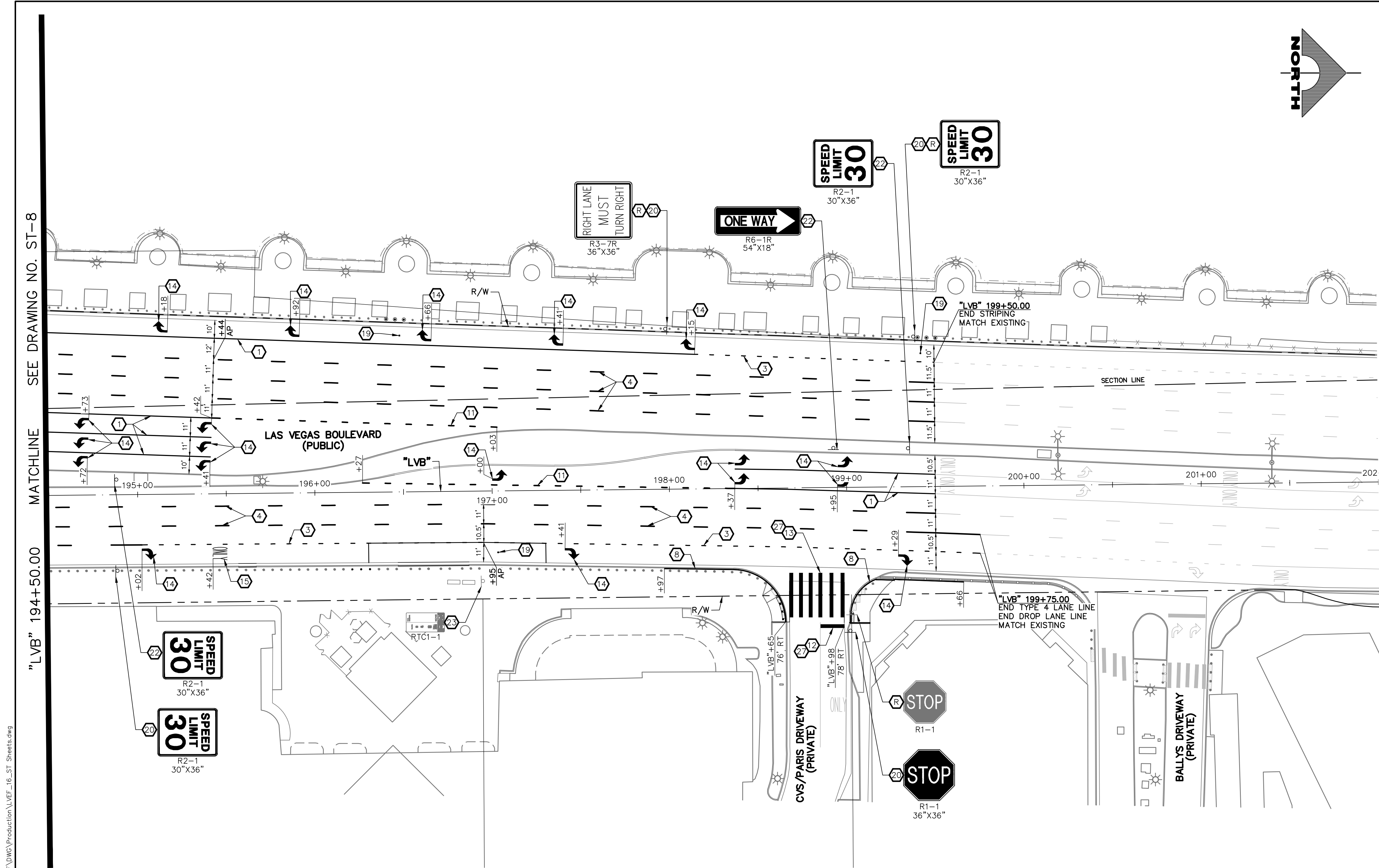
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gwengineering.com

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-8
VERT: NONE	SHT. 160 OF 169
FIELD BOOK	L-2304

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

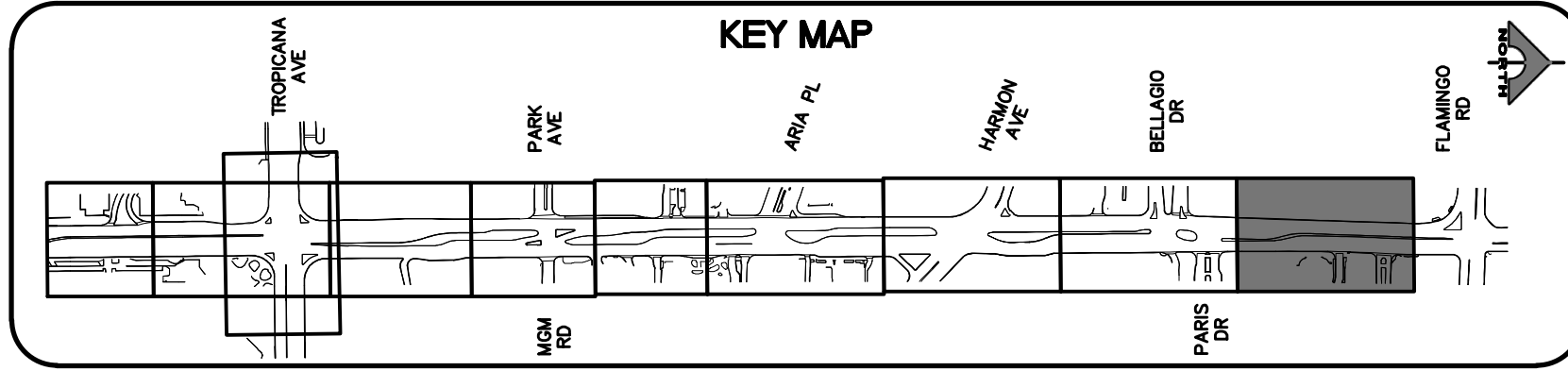
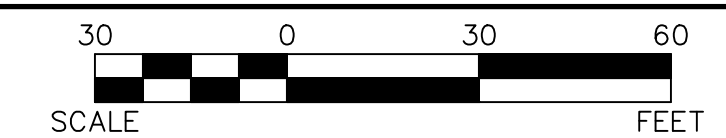


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**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!**

**CALL BEFORE YOU DIG OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEWAY AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

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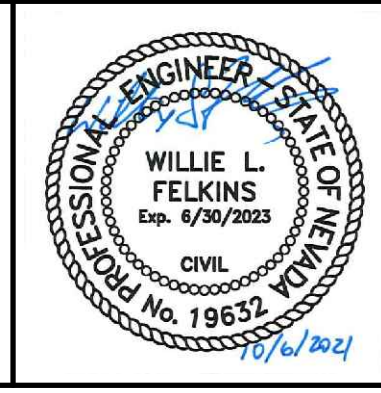
**Call 811**

OR 1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



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



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

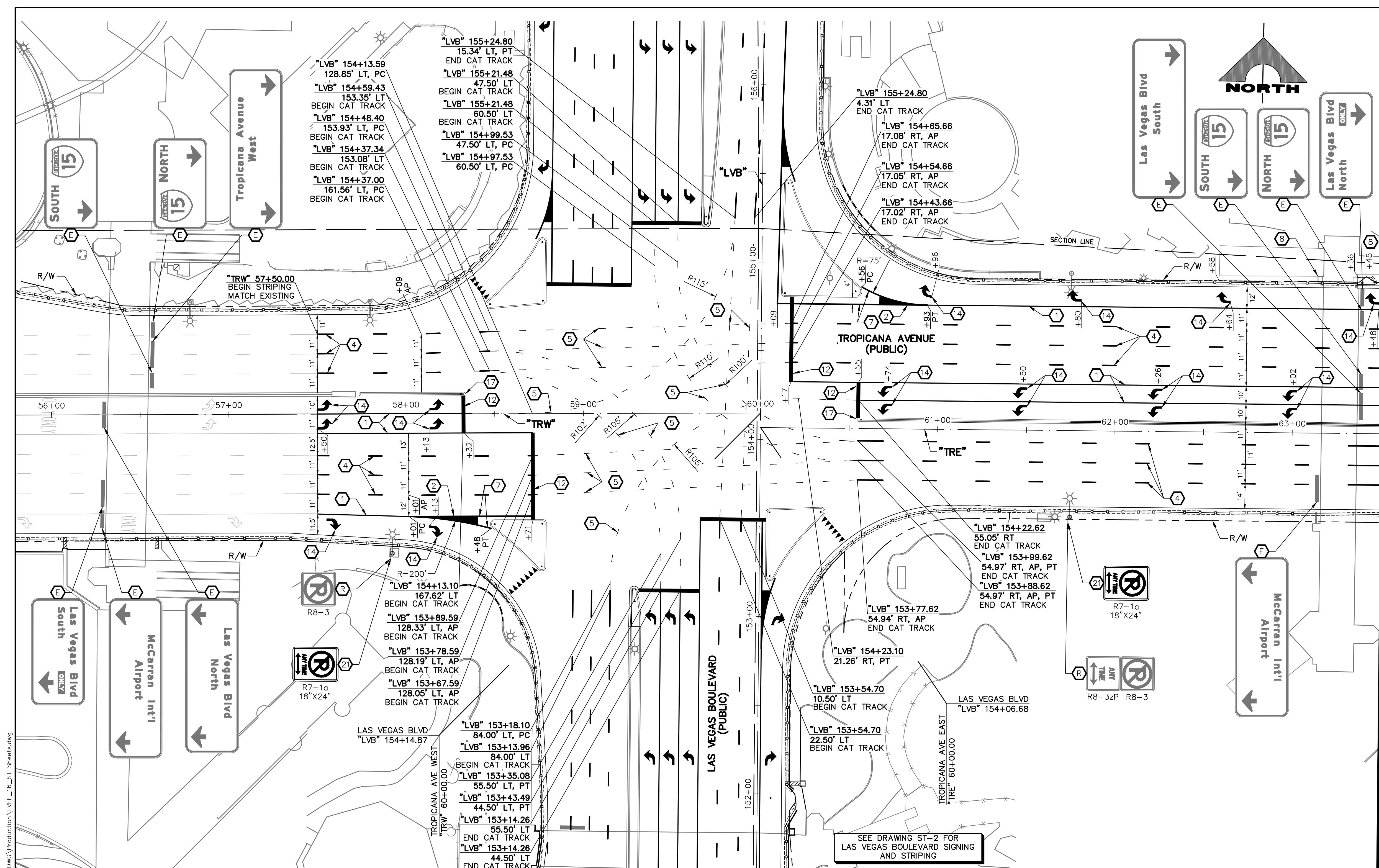
**GCV**  
ENGINEERS \ SURVEYORS

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	<b>ST-9</b>
VERT: NONE	SHT. 161 OF 169
FIELD BOOK	L-2304

LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)    BLD NO.: 603978-21



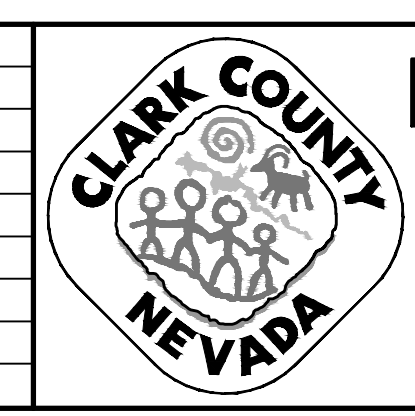


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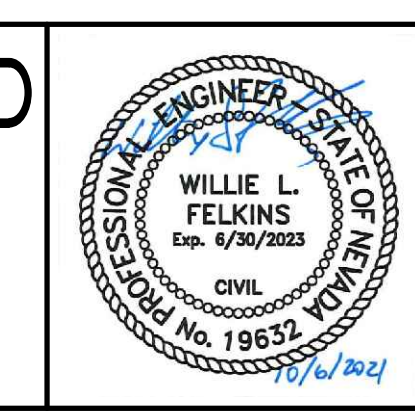
MATCHLINE SEE DRAWING NO. ST-11  
"TR" 63+50.00

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REV. NO.	DATE	DESCRIPTION	APPROVED

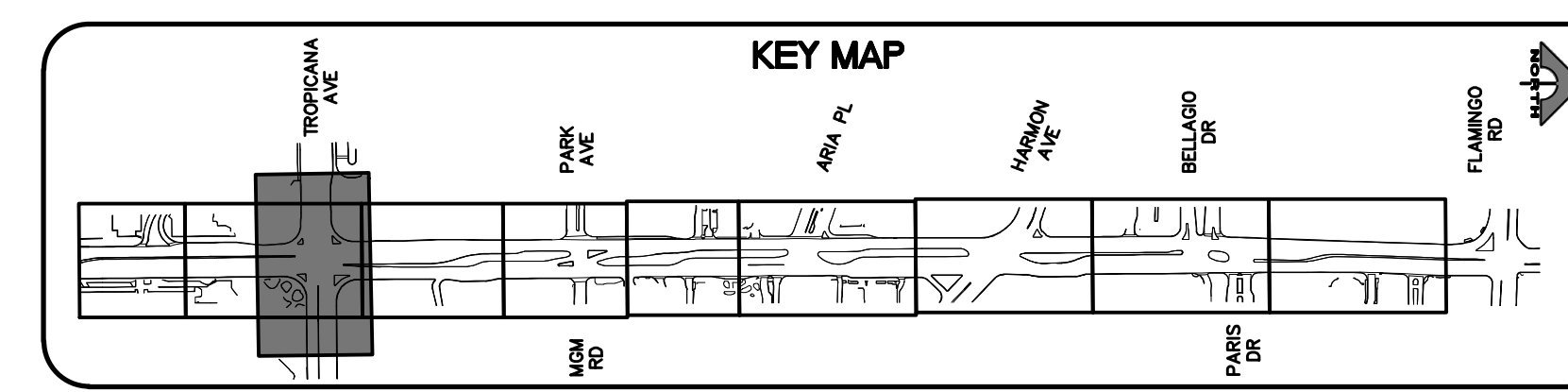


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**  
**SIGNING AND STRIPING PLAN**  
 "TRW" 56+00.00 TO "TRE" 63+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	ST-10
VERT: NONE	SHT. 162 OF 169
FIELD BOOK	L-2304



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

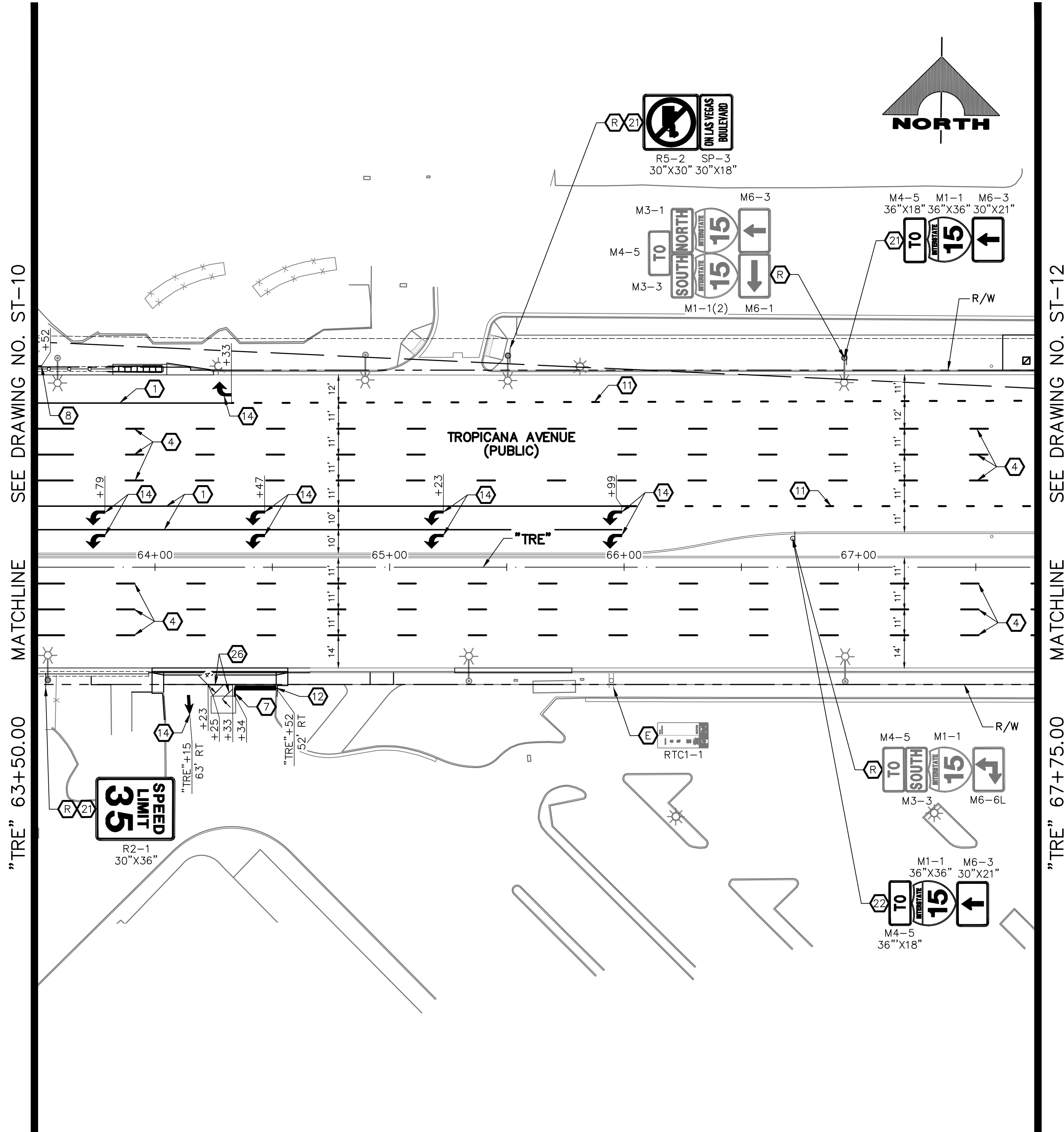
**FAST**  
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LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)

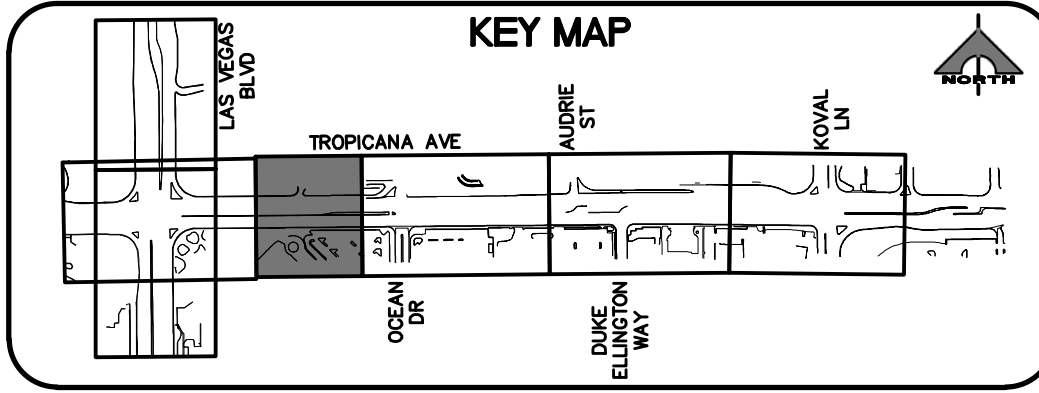
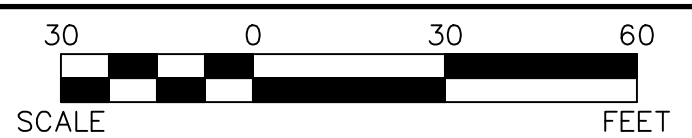


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OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

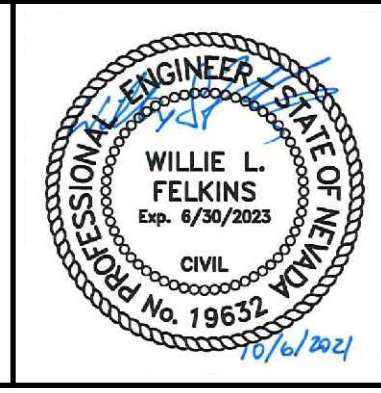


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

**"TRE" 63+50.00 TO "TRE" 67+75.00**

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



PROJECT No: 500-897-LV-EF DRAWN BY: JAP

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS

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

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

**ST-11**

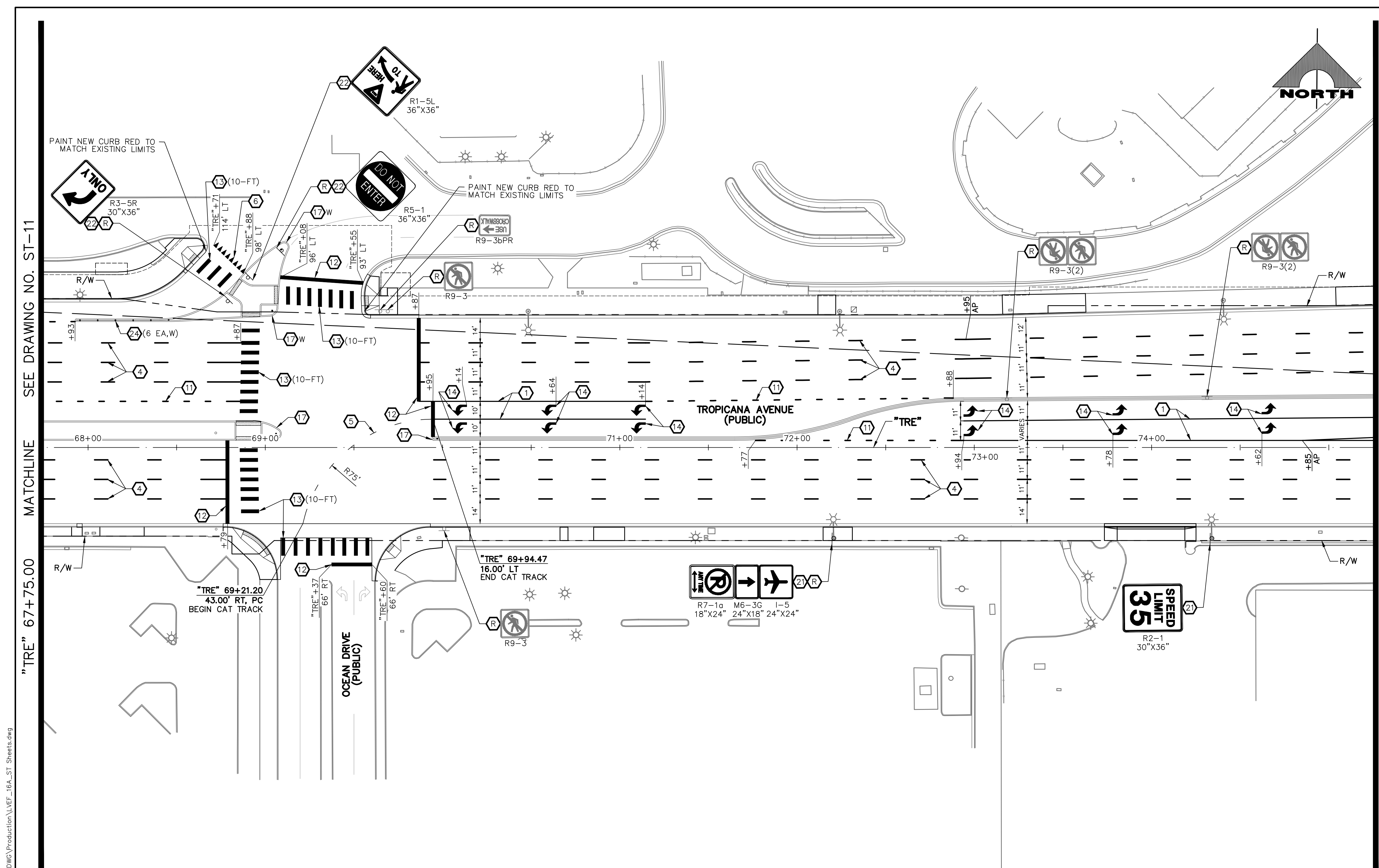
SHT. 163 OF 169

L-2304

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

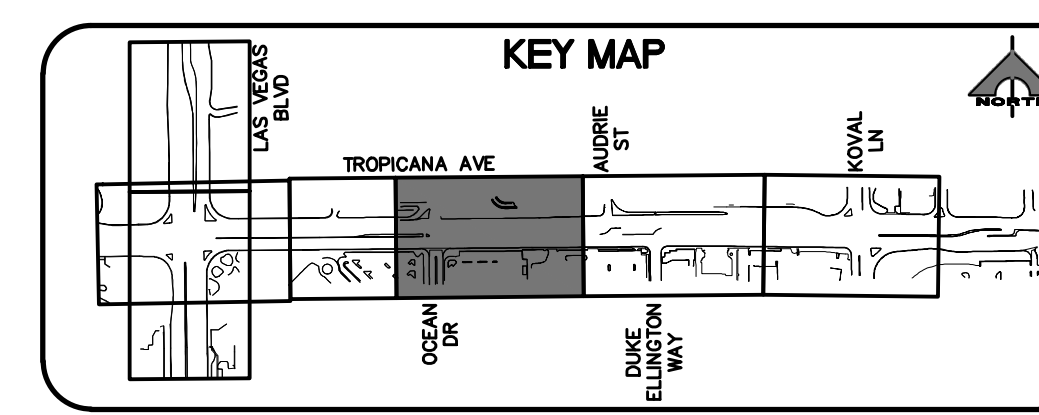
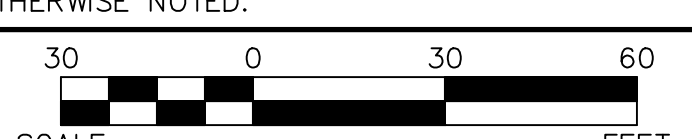


10-13-21 12:00:09 F:\Projects\500-500-897-LV-EF\DWG\Production\LV\_EF\_18A-ST\_Sheets.dwg



- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
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  - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
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  - R REMOVE AND SALVAGE SIGN(S)

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  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



**CALL BEFORE YOU DIG OVERHEAD**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. IT'S DANGEROUS. IT'S ILLEGAL.

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

**Call before you Dig**

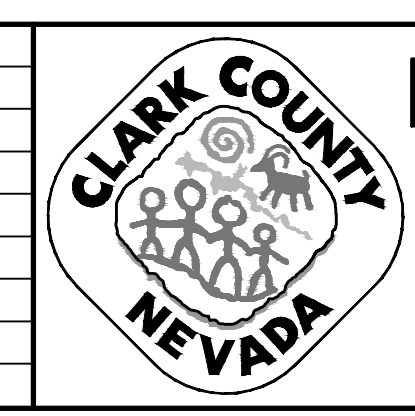
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**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

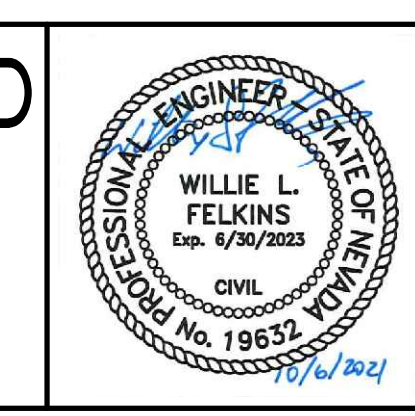


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



PROJECT No: 500-897-LV-EF DRAWN BY: JAP

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY:

**GCV** ENGINEERS \ SURVEYORS

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

DRAWING NO. **ST-12**

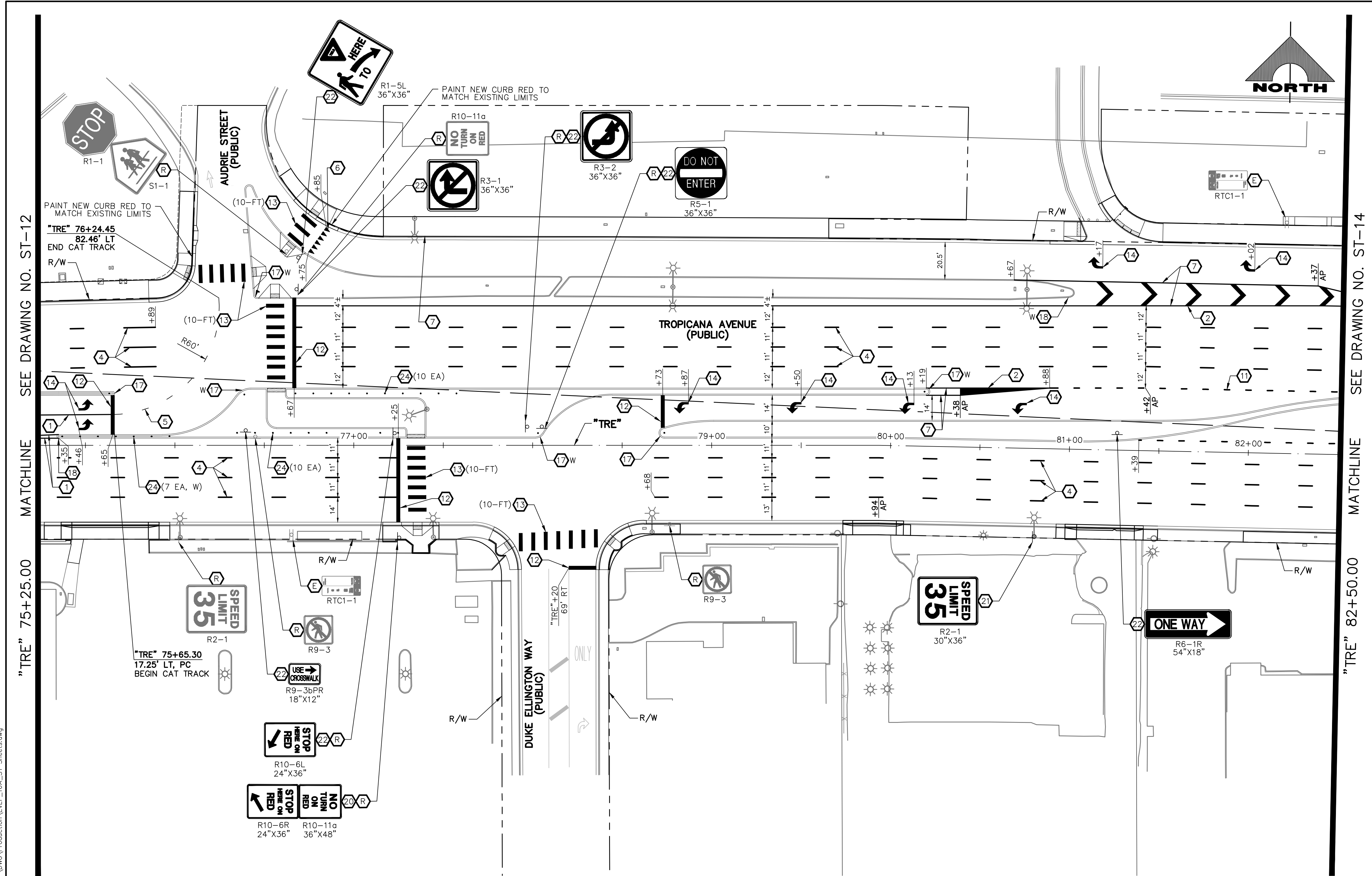
SHT. 164 OF 169

L-2304

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

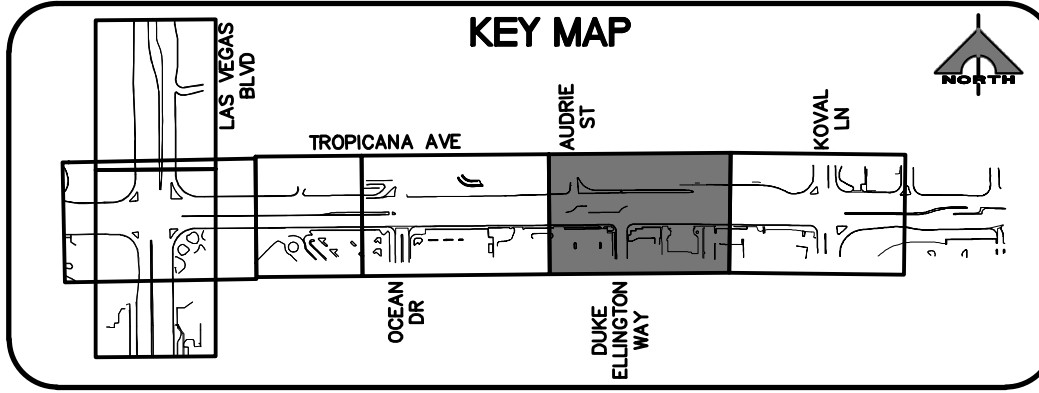
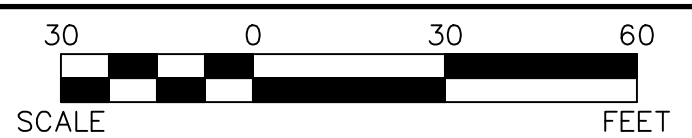


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**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!**

**CALL BEFORE YOU DIG OVERHEAD**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

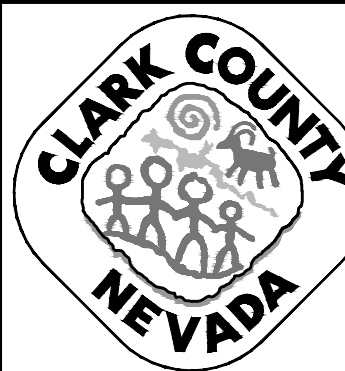
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**Call 811**

OR

**1-800-227-2600**

REV. NO.	DATE	DESCRIPTION	APPROVED

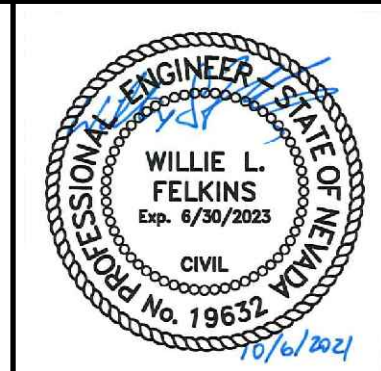


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



PROJECT No: 500-897-LV-EF DRAWN BY: JAP

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY: **GCV**

**GCV** ENGINEERS \ SURVEYORS

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

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

**ST-13**

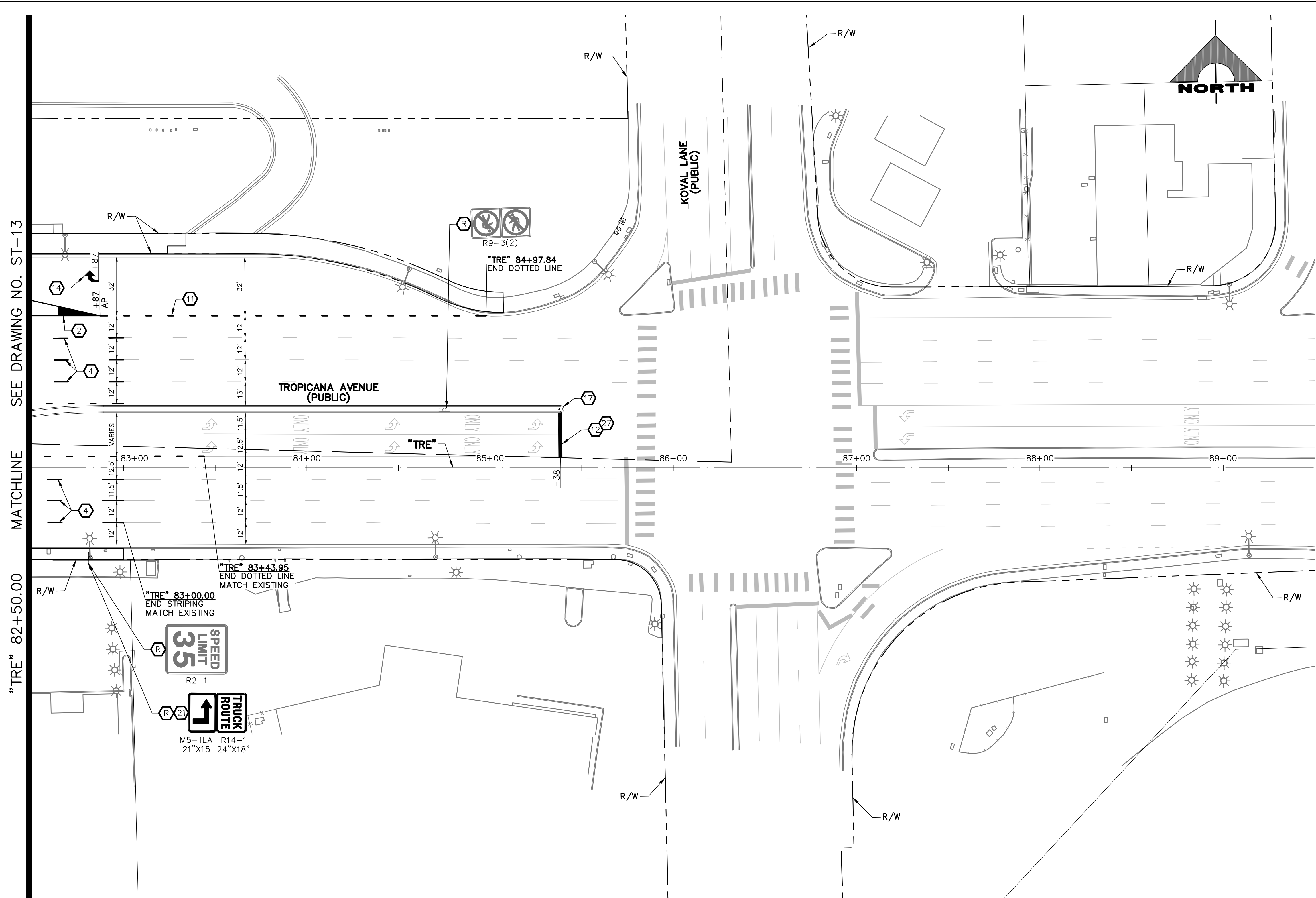
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L-2304

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

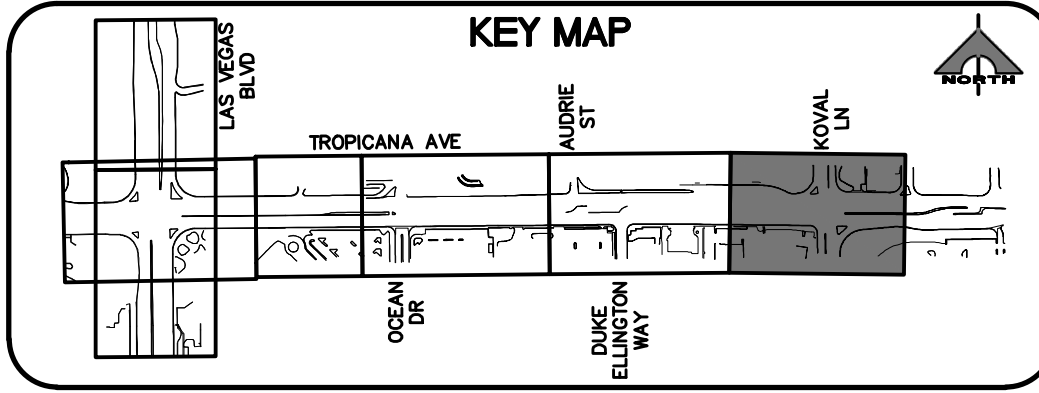
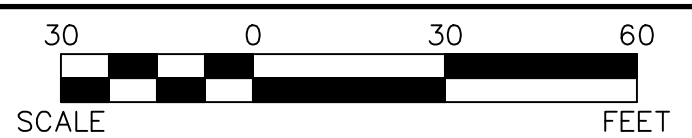


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**FAST**

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OR

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REV. NO.	DATE	DESCRIPTION	APPROVED

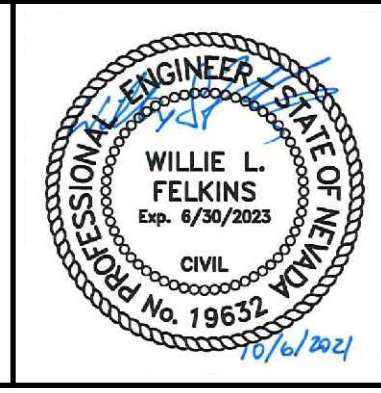


**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING PLAN**

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

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



PROJECT No: 500-897-LV-EF DRAWN BY: JAP

DESIGNED BY: DSH CHECKED BY: WLF

APPROVED BY: \_\_\_\_\_

**GCV** ENGINEERS \ SURVEYORS

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

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

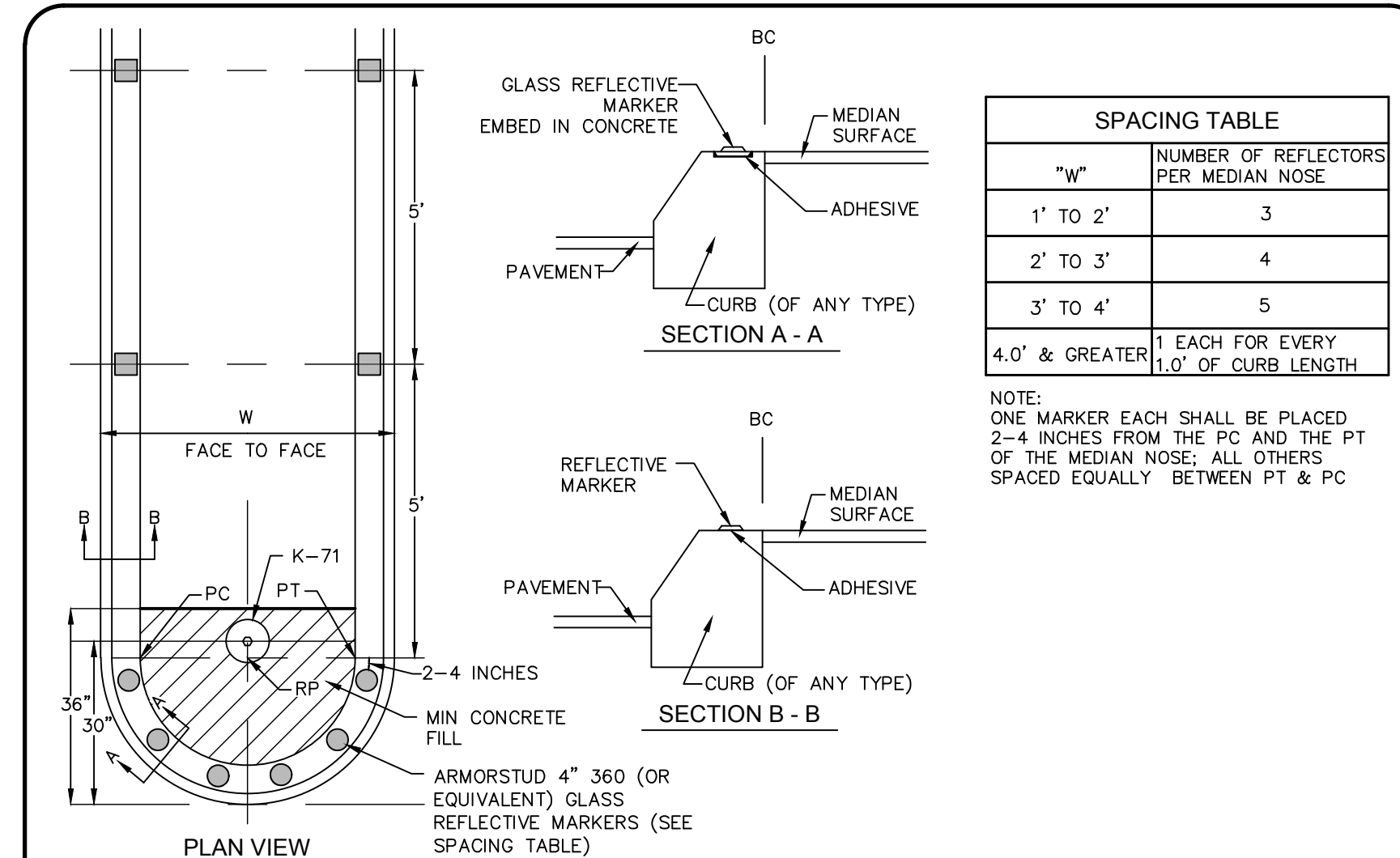
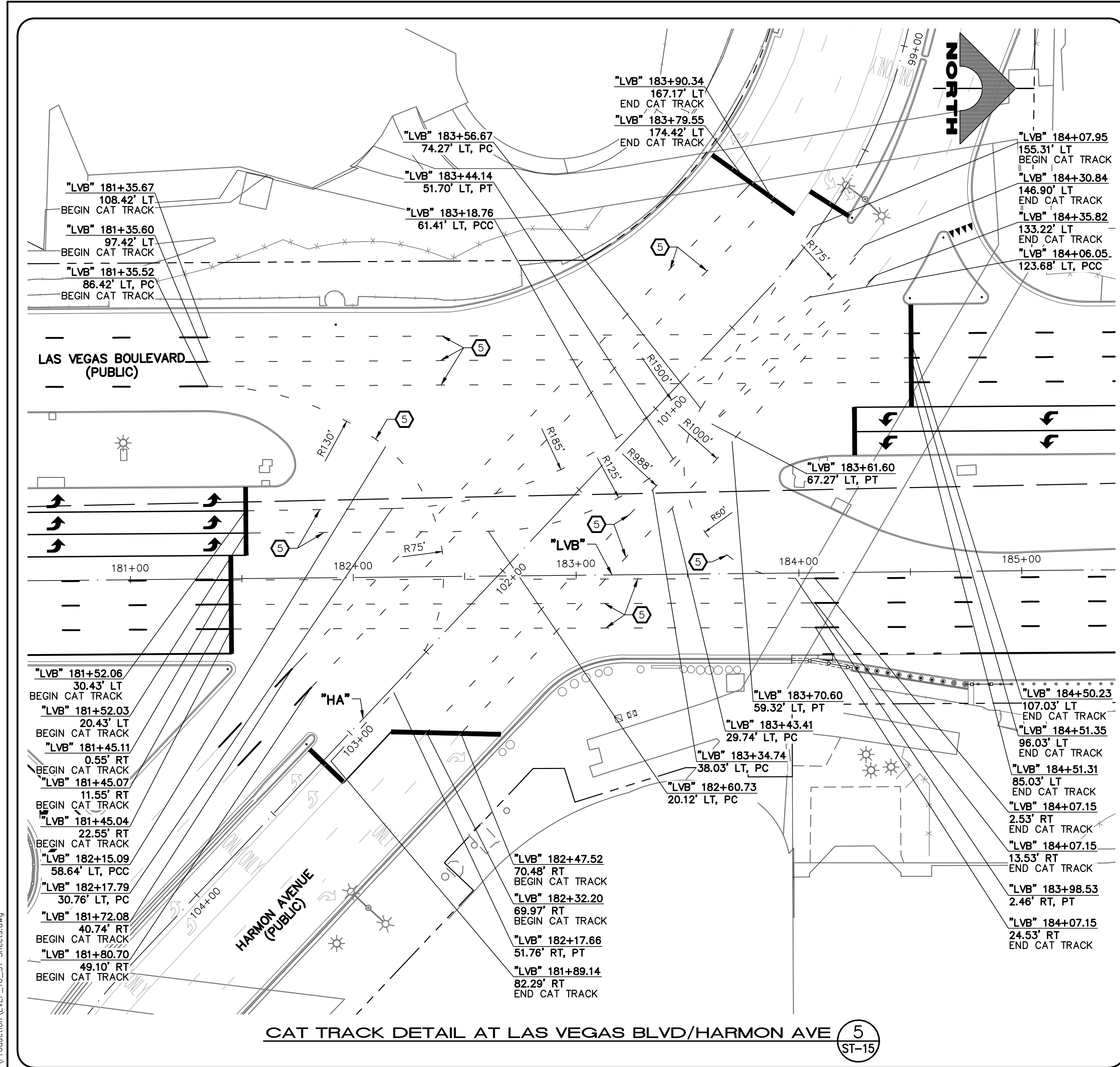
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SHT. 166 OF 169

L-2304

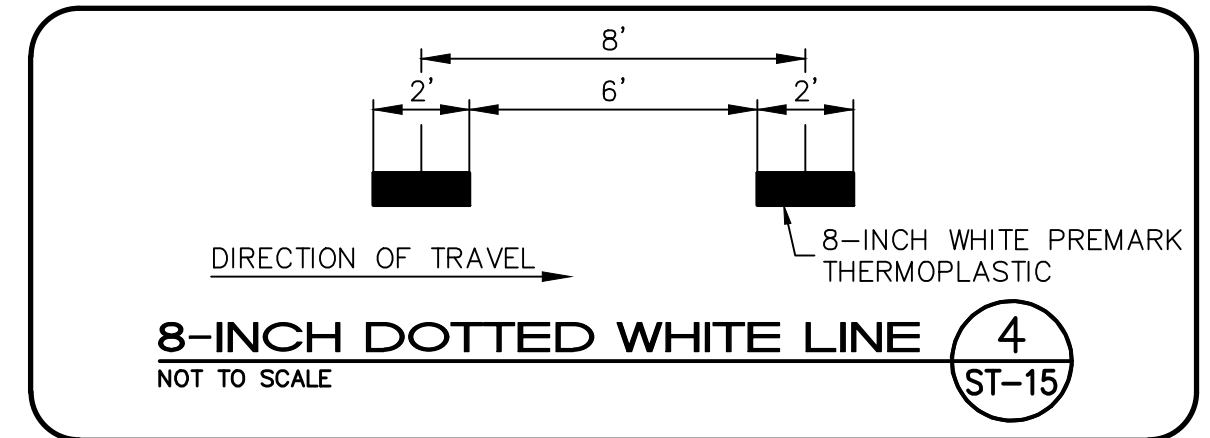
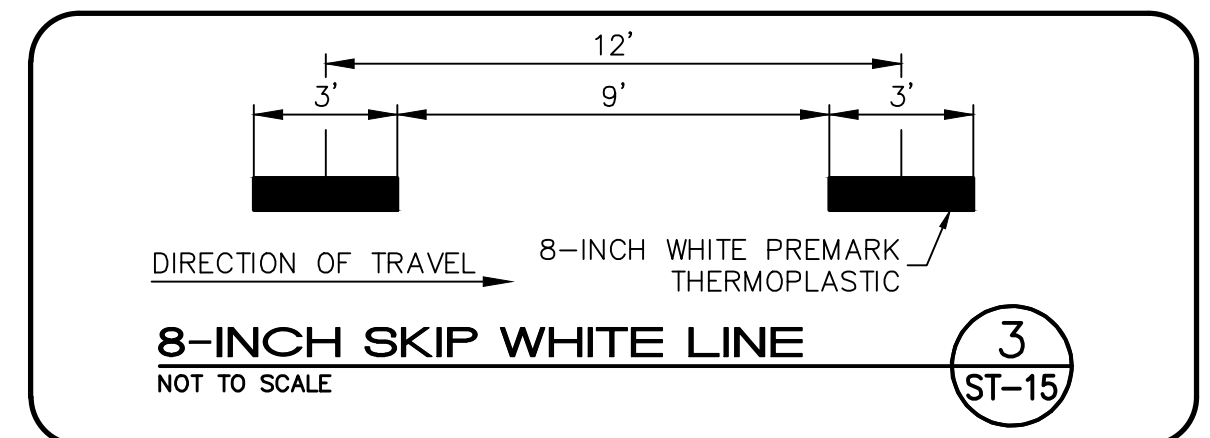
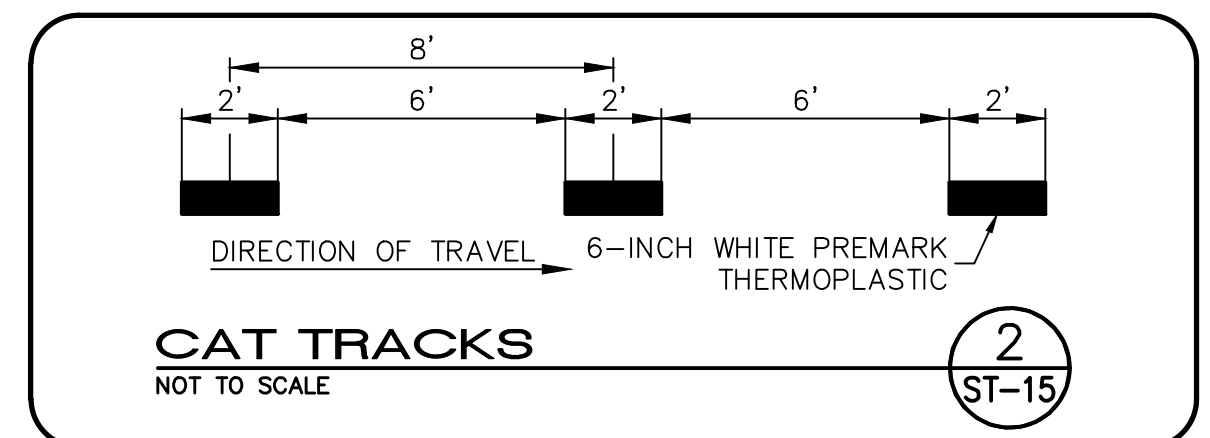
LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD (PHASE E & F)





NOTES:  
 1. ENTIRE MEDIAN SHALL BE PAINTED WITH REFLECTIVE PAINT OF SAME COLOR AS REFLECTIVE MARKERS, FROM THE MEDIAN NOSE BACK 5 FEET OR TO THE PC, WHICHEVER IS GREATER  
 2. REFLECTIVE PAVEMENT MARKERS USED ON MEDIAN SHALL CONFORM TO STD DWG NO 247  
 3. ORIENTATION OF THE REFLECTIVE MARKERS FACES SHALL BE MADE IN THE FIELD TO ENSURE THAT MARKERS ARE AIMED AT APPROACHING VEHICLES TO BEST ADVANTAGE, ESPECIALLY IN HORIZONTALLY CURVED ROAD SECTIONS  
 4. REFLECTIVE PAVEMENT MARKERS ALONG MEDIAN LENGTH SHALL ONLY BE USED ON MEDIAN ISLANDS LESS THAN OR EQUAL TO FOUR (4) FEET IN WIDTH.

**MEDIAN ISLAND MARKINGS**  
 NOT TO SCALE



- SIGNING AND STRIPING NOTES**
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  - LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
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  - WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
  - INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
  - REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 4-INCH SOLID YELLOW LINE (PPM)
  - REMOVE EXISTING STRIPING/MARKINGS
  - EXISTING SIGN(S) TO REMAIN
  - REMOVE AND SALVAGE SIGN(S)

- TRAFFIC NOTES**
- SEE SIGN DETAILS ON DRAWING ST-17 FOR SPECIAL SIGNS.
  - SEE GENERAL NOTES ON DRAWING NO. G-4.
  - IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  - EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  - ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD.
  - LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  - LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.

SCALE: 30 0 30 60 FEET

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DIG OVERHEAD**

1-702-227-2929

**FAST**

Call before you UnderGround.

1-702-432-5300

FREEMAN AND ARTERIAL SYSTEMS OF TRANSPORTATION

Call before you Dig

Call 811

OR

1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING DETAILS**

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

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

**GCV**  
 ENGINEERS \ SURVEYORS

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

SCALE: \_\_\_\_\_

HORIZ: AS SHOWN

VERT: NONE

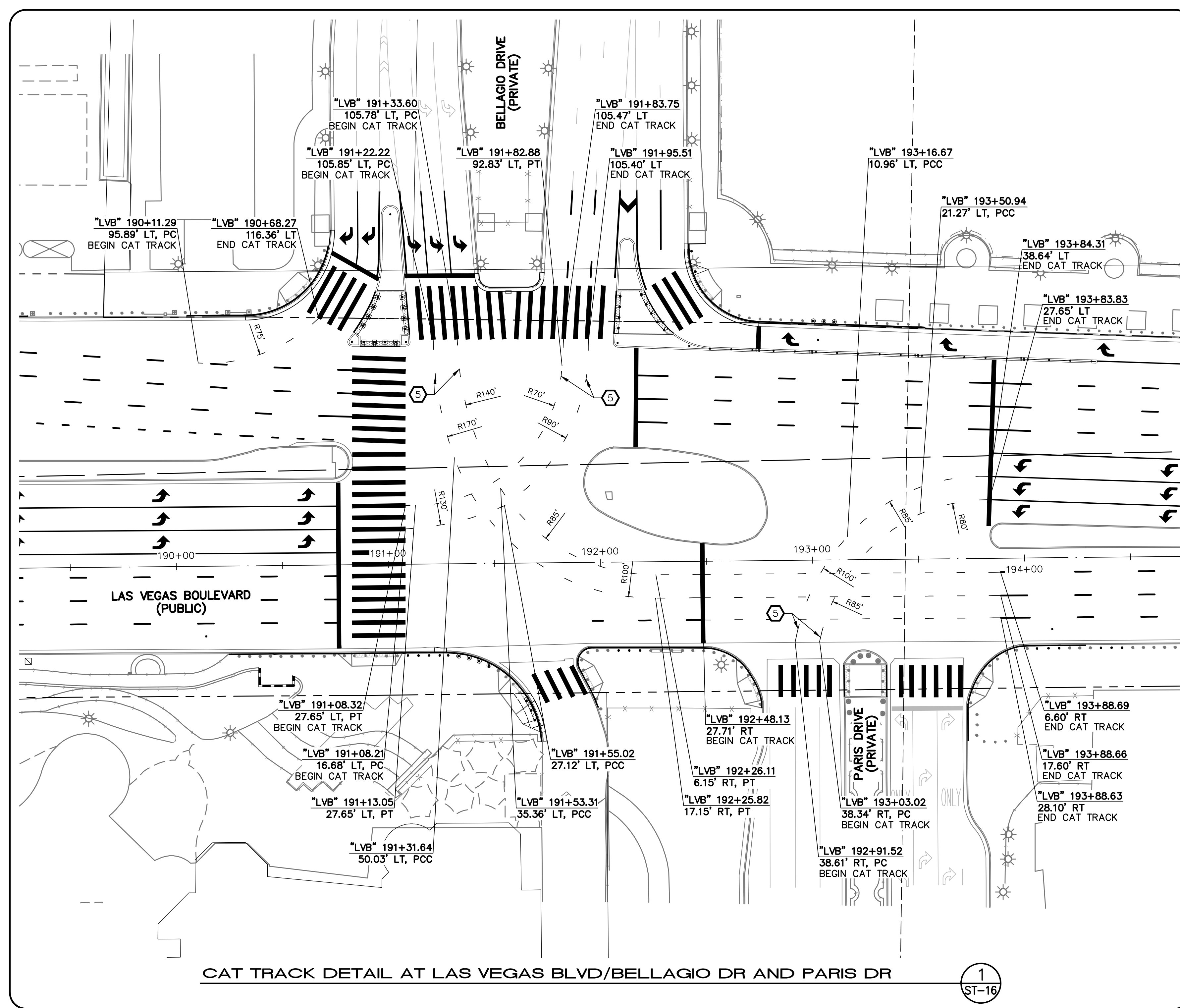
FIELD BOOK: \_\_\_\_\_

DRAWING NO. **ST-15**

SHT. 167 OF 169

L-2304



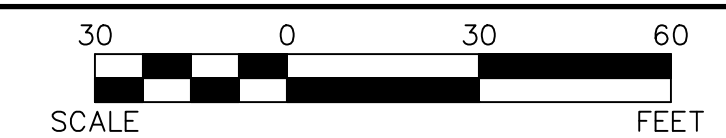


CAT TRACK DETAIL AT LAS VEGAS BLVD/BELLAGIO DR AND PARIS DR

1  
ST-16

- ### SIGNING AND STRIPING NOTES
- 1 STORAGE LANE LINE (RPM) (USDCCA STD. DWG. NO. 246)
  - 2 LANE TRANSITION (RPM/PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 245)
  - 3 DROP LANE LINE (RPM) (USDCCA STD. DWG. NO. 246.6)
  - 4 TYPE 4 LANE LINE (RPM) (USDCCA STD. DWG. NO. 244.1)
  - 5 CAT TRACKS DELINEATION (PREMARK THERMOPLASTIC) (SEE DETAIL 2, DWG. ST-15)
  - 6 WHITE YIELD LINE (PREMARK THERMOPLASTIC) (NDOT STD. DETAIL NO. ST-7)
  - 7 4-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
  - 8 6-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC) (PERMANENT ORDINANCE NO OBSTRUCTIVE USES)
  - 9 8-INCH SOLID WHITE LINE (PREMARK THERMOPLASTIC)
  - 10 8-INCH SKIP WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 3, DWG. ST-15)
  - 11 8-INCH DOTTED WHITE LINE (PREMARK THERMOPLASTIC) (SEE DETAIL 4, DWG. ST-15)
  - 12 24-INCH WHITE STOP LINE (PREMARK THERMOPLASTIC) (USDCCA STD. DWG. NO. 254)
  - 13 24-INCH WHITE CROSSWALK (PREMARK THERMOPLASTIC) (25-FT WIDTH, UNLESS OTHERWISE SHOWN) (USDCCA STD. DWG. NO. 254)
  - 14 WHITE PAVEMENT ARROW (PREMARK THERMOPLASTIC)
  - 15 WHITE PAVEMENT "ONLY" (PREMARK THERMOPLASTIC)
  - 16 WHITE PAVEMENT "BUS" (PREMARK THERMOPLASTIC)
  - 17 MEDIAN NOSE MARKINGS AND MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 18 MEDIAN NOSE MARKINGS WITHOUT MARKER POST (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE) (SEE DETAIL 1, DWG. ST-15)
  - 19 INSTALL BLUE REFLECTIVE PAVEMENT MARKER CENTERED IN OUTSIDE LANE AT FIRE HYDRANT LOCATIONS
  - 20 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 21 INSTALL NEW SIGN(S) (POLE MOUNTED) (USDCCA STD. DWG. NO. 249.1)
  - 22 INSTALL NEW SIGN(S) (GROUND MOUNTED WITH MULTI-DIRECTIONAL SLIP/BREAKAWAY BASE) (NDOT STD. DETAIL NOS. TRS-3, TRS-5, TRS-13, AND TRS-15)
  - 23 REMOVE AND RESET BUS STOP SIGN IN LINE WITH BOLLARDS (BY RTC)
  - 24 INSTALL K-71 MARKER POSTS AT 10-FT O.C. (YELLOW UNLESS OTHERWISE NOTED) (W=WHITE)
  - 25 REMOVE AND RESET SIGN ON NEW SUPPORT (GROUND MOUNTED WITH FLUSH BREAK-OUT POLE BASE BY SIGN SUPPORT SYSTEMS CORP. OR APPROVED EQUAL) (USDCCA STD. DWG. NO. 249.1)
  - 26 4-INCH SOLID YELLOW LINE (PPM)
  - 27 REMOVE EXISTING STRIPING/MARKINGS
  - E EXISTING SIGN(S) TO REMAIN
  - R REMOVE AND SALVAGE SIGN(S)

- ### TRAFFIC NOTES
1. SEE SIGN DETAILS ON DRAWING ST-17 FOR SPECIAL SIGNS.
  2. SEE GENERAL NOTES ON DRAWING NO. G-4.
  3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, OBSTRUCTION, REMOVAL, OR TEMPORARY RELOCATION OF ANY EXISTING TRAFFIC MARKINGS TO REMAIN FOLLOWING COMPLETION, SUCH MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE ENGINEER, AND SHALL BE CONSIDERED AN INCIDENTAL TO OTHER ITEMS OF WORK.
  4. EXISTING SIGNS NOT SHOWN SHALL REMAIN IN PLACE.
  5. ALL EXISTING TRAFFIC SIGNS AND EQUIPMENT TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO 9935 S. JONES BLVD.
  6. LOCATIONS OF NEW SIGNS SHALL BE ADJUSTED IN FIELD TO AVOID SIGHT OBSTRUCTION WITH EXISTING LANDSCAPING WITH APPROVAL OF THE ENGINEER.
  7. LANE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN UNLESS OTHERWISE NOTED.



AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!

**CALL BEFORE YOU DIG**

**1-702-227-2929**

**FAST**

**Call before you UnderGround.**

**1-702-432-5300**

FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

**Call before you Dig**

AVOID HITTING UNDERGROUND UTILITY LINES. IT'S COSTLY!

**Call 811**

OR

**1-800-227-2600**

I:\Projects\500\500-897-LV-EF\DWG\Production\LV\_EF\_16\_ST\_Sheets.dwg 10-13-21 12:01:13

REV. NO.	DATE	DESCRIPTION	APPROVED

**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGNING AND STRIPING DETAILS**

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

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

DESIGNED BY: DSH    CHECKED BY: JRT

APPROVED BY: \_\_\_\_\_

SCALE

HORIZ: AS SHOWN

VERT: NONE

FIELD BOOK

DRAWING NO.

**ST-16**

SHT. 168 OF 169

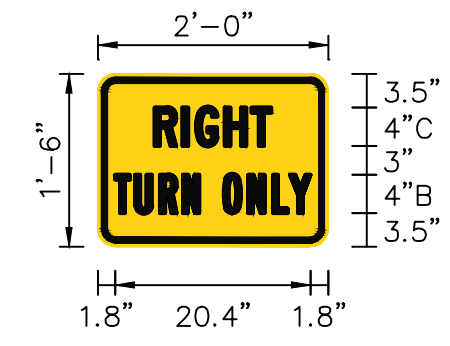
L-2304

**GCW** ENGINEERS \ SURVEYORS

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



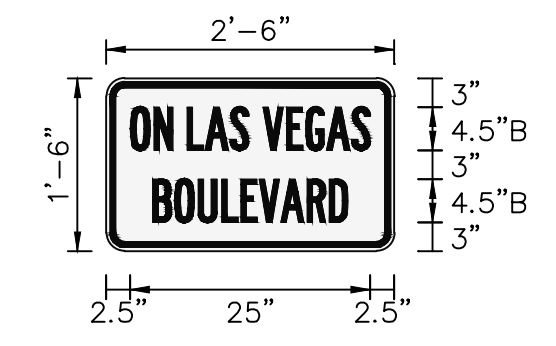
SIGN NUMBER SP-1  
 QUANTITY 1  
 WIDTH 2'-0"  
 HEIGHT 1'-6"  
 BORDER WIDTH 0.625" (INSET=0.375")  
 BORDER RADII 1.5"  
 BACKGROUND COLOR YELLOW  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "LVB" 179+71.8



SIGN NUMBER SP-2  
 QUANTITY 1  
 WIDTH 2'-6"  
 HEIGHT 3'-0"  
 BORDER WIDTH 0.625"  
 BORDER RADII 1.5"  
 BACKGROUND COLOR GREEN  
 LEGEND & BORDER COLOR WHITE  
 STATION(S) "LVB" 180+18.1



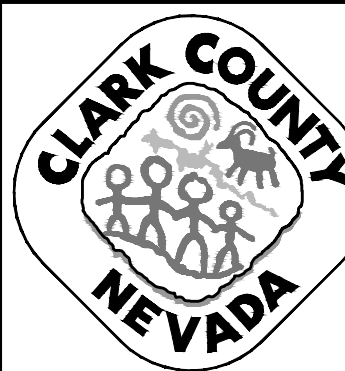
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 QUANTITY 1  
 WIDTH 2'-6"  
 HEIGHT 1'-6"  
 BORDER WIDTH 0.625" (INSET=0.375")  
 BORDER RADII 1.5"  
 BACKGROUND COLOR WHITE  
 LEGEND & BORDER COLOR BLACK  
 STATION(S) "TRE" 65+50.4



10-13-21 12:01:19 F:\Projects\500\500-897-LV-EF\DWG\Production\LV\_EF\_16\_ST\_Sheets.dwg

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

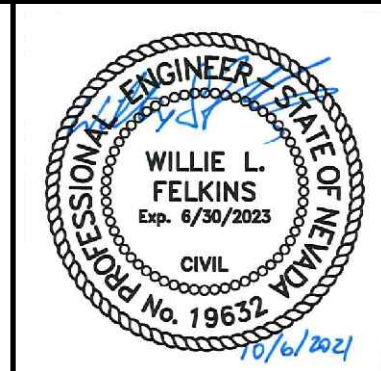
REV. NO.	DATE	DESCRIPTION	APPROVED



**LAS VEGAS BLVD ROADWAY IMPROVEMENTS - TROPICANA AVE TO FLAMINGO RD**

**SIGN DETAILS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

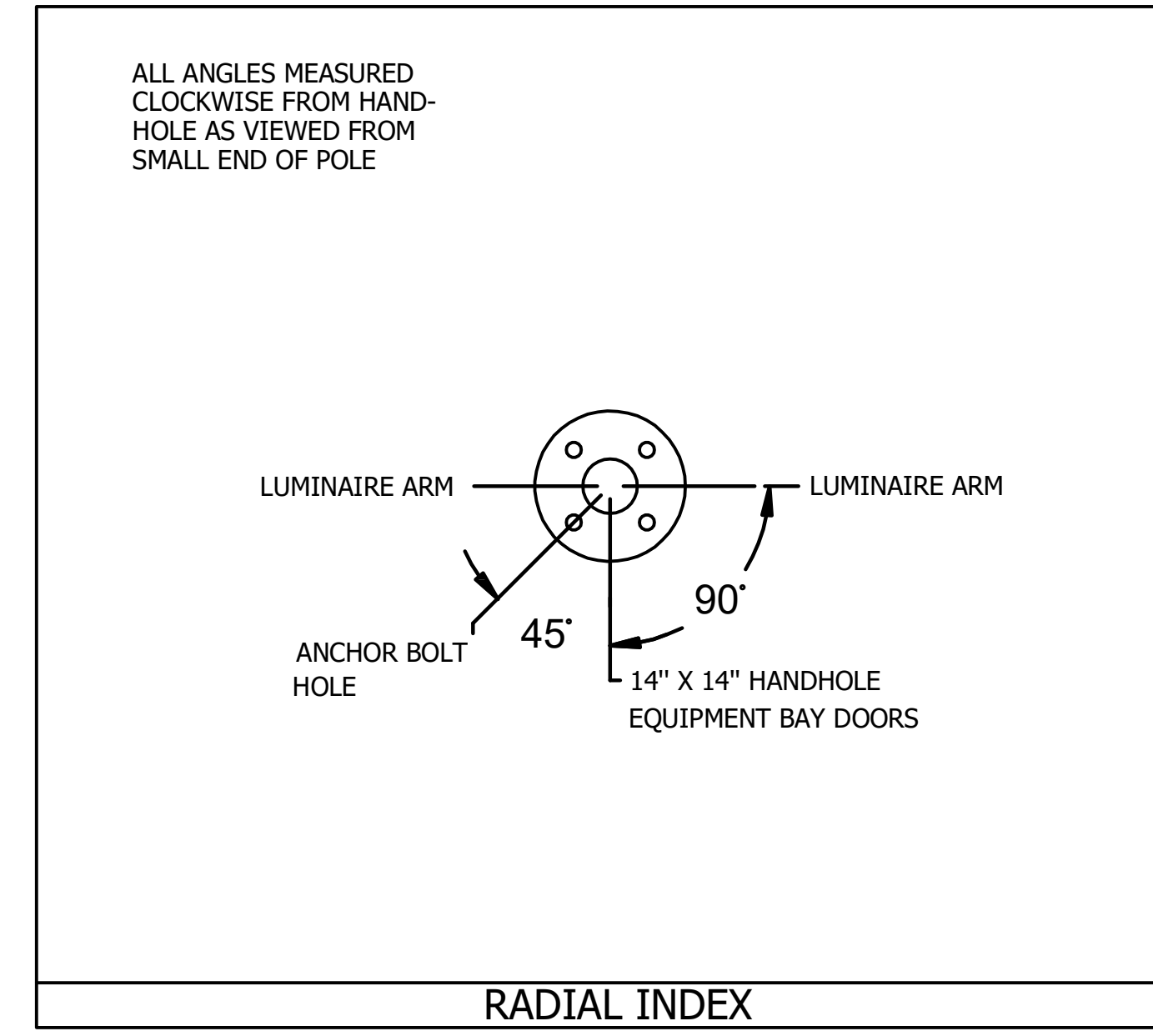
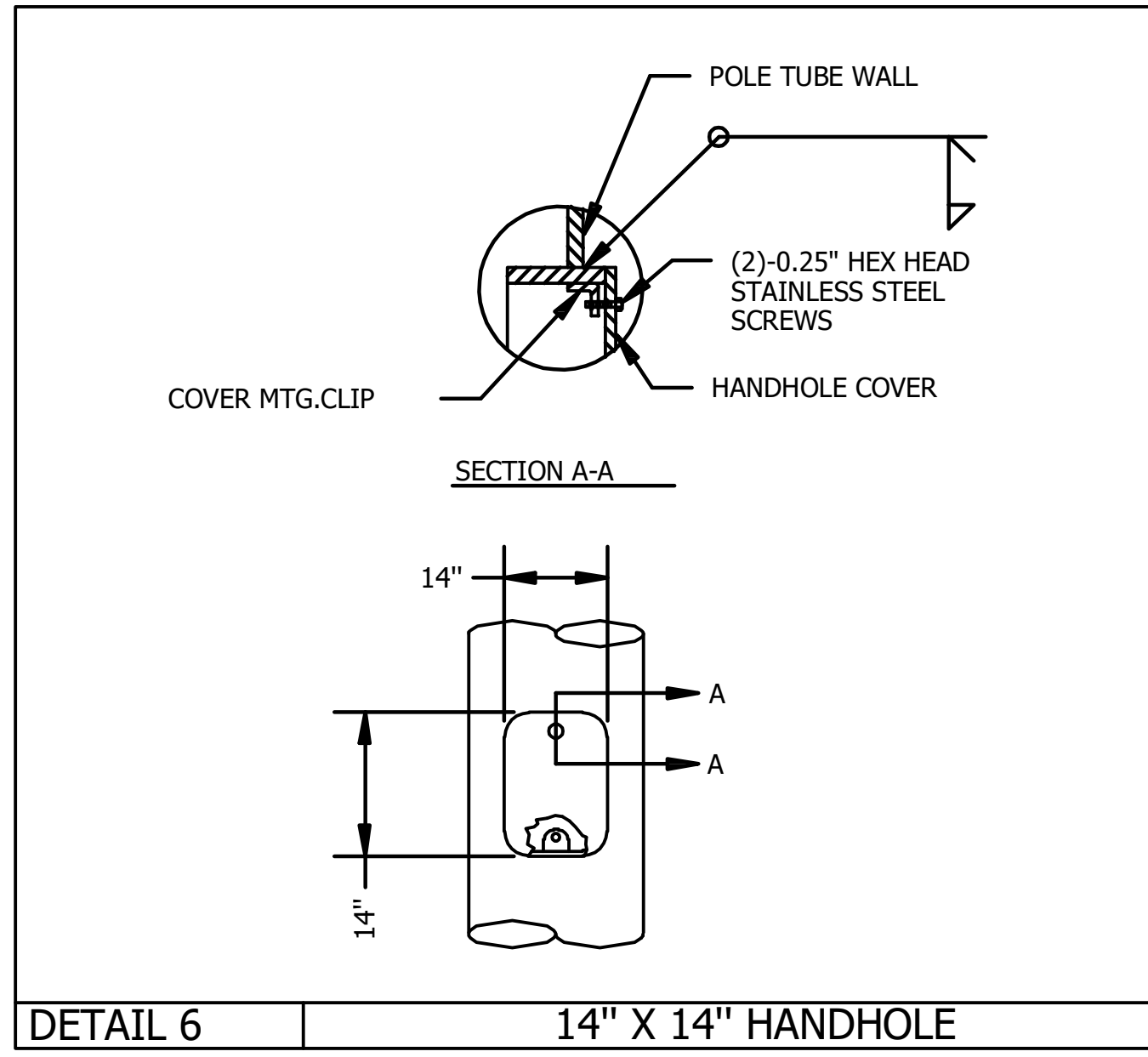
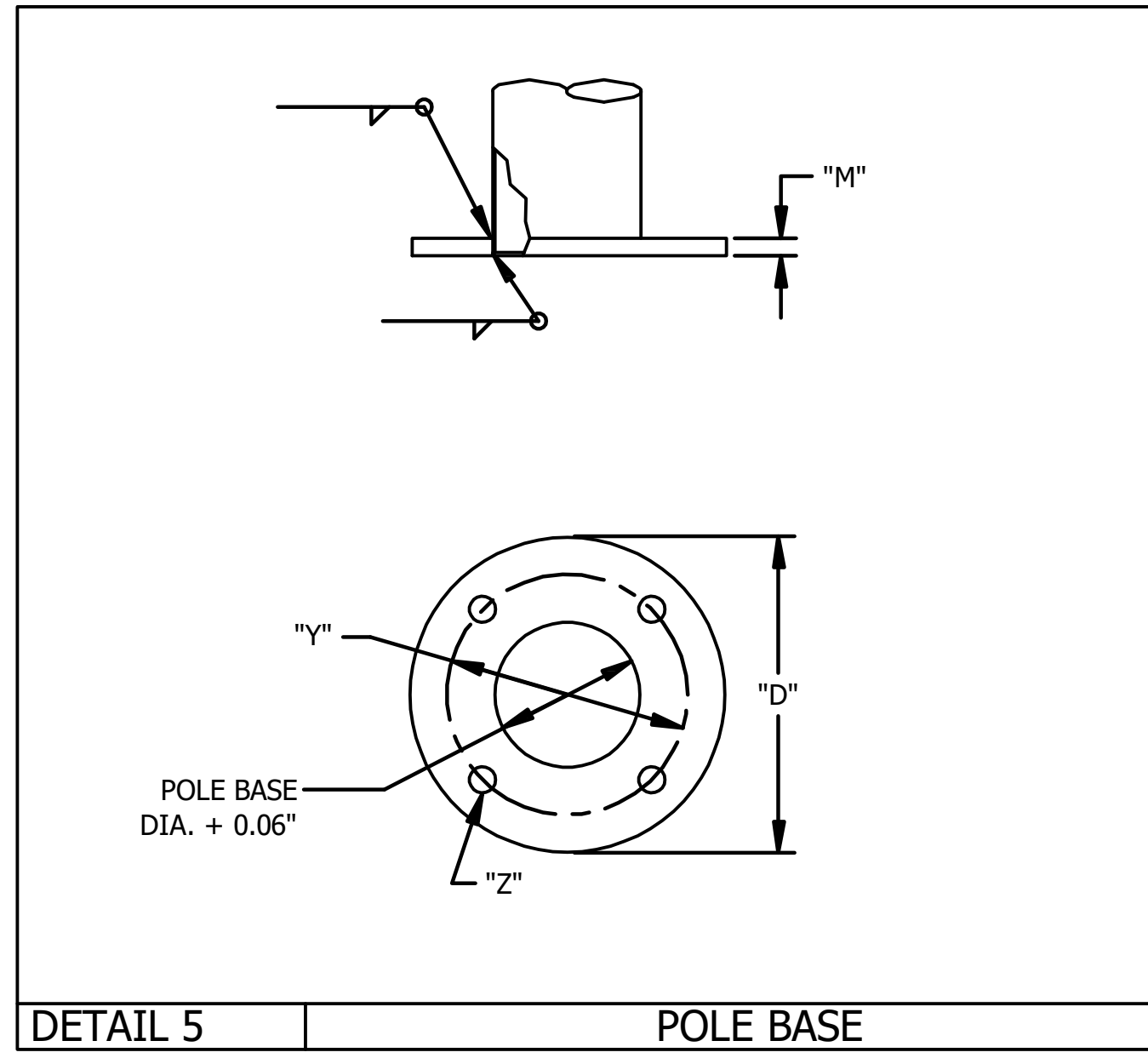
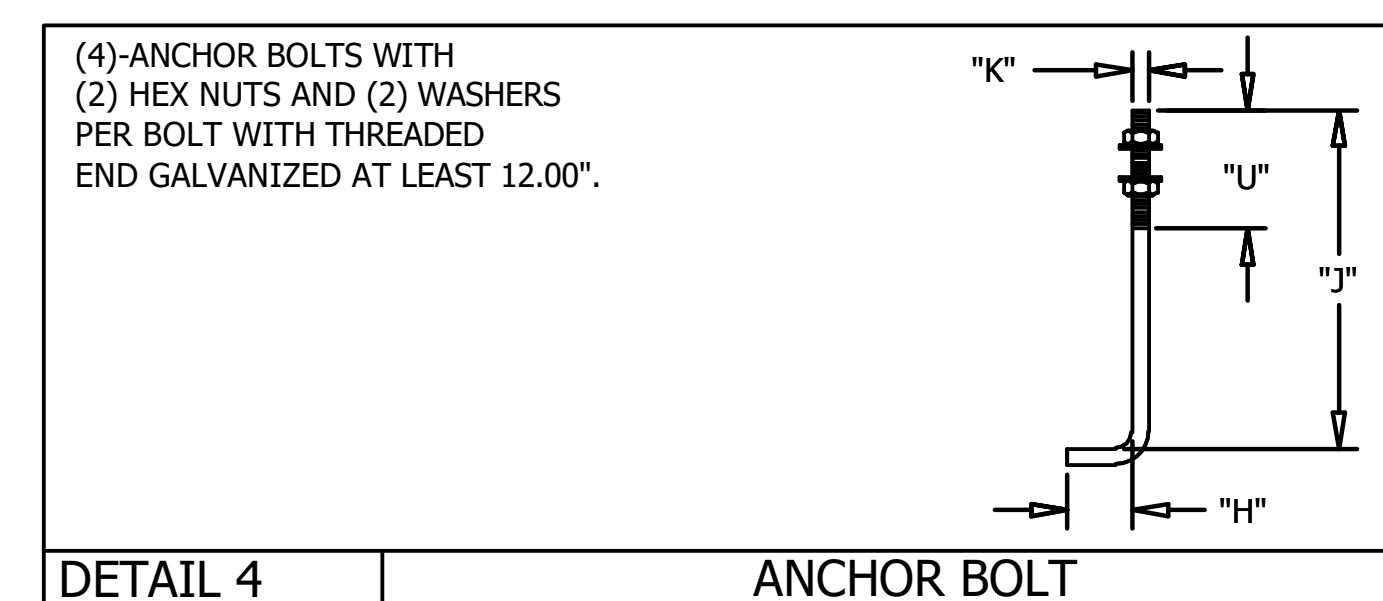
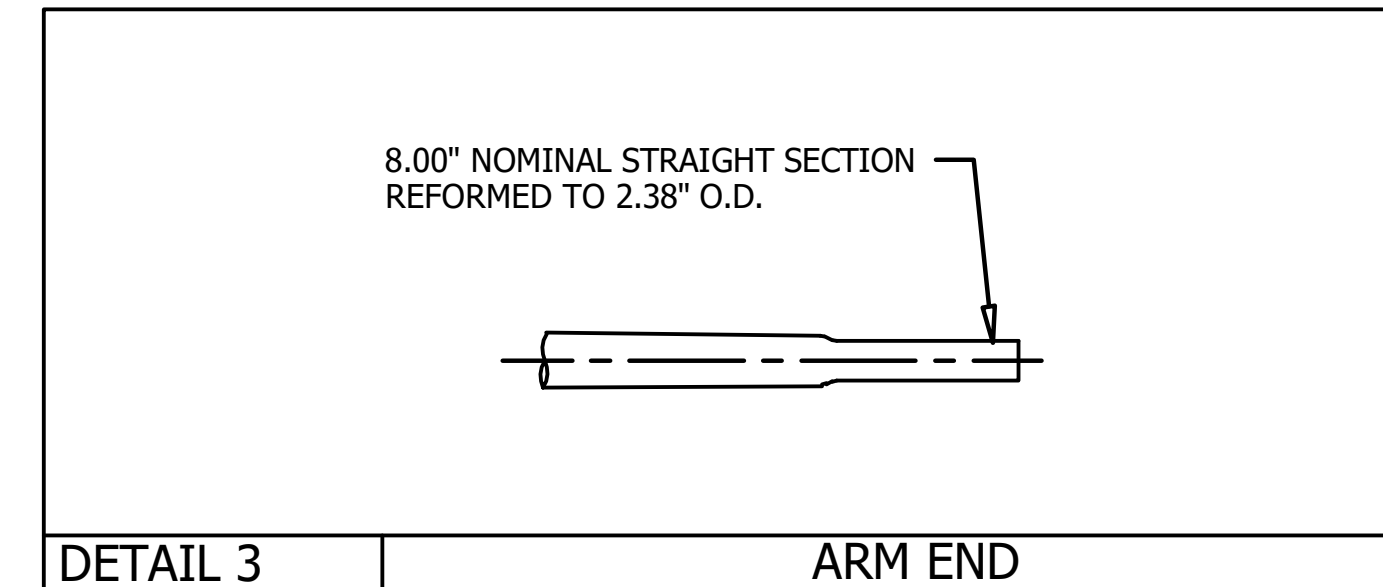
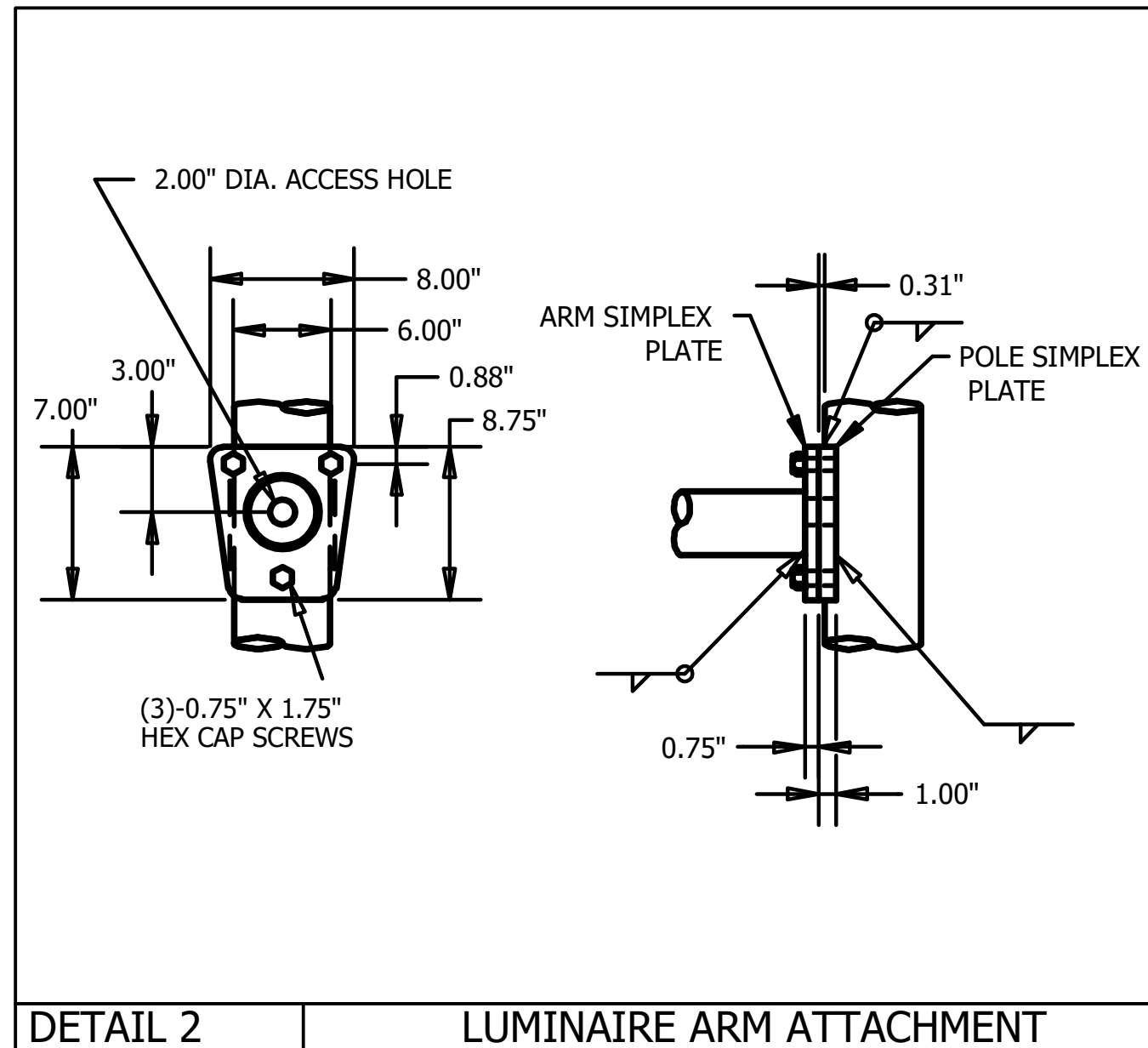
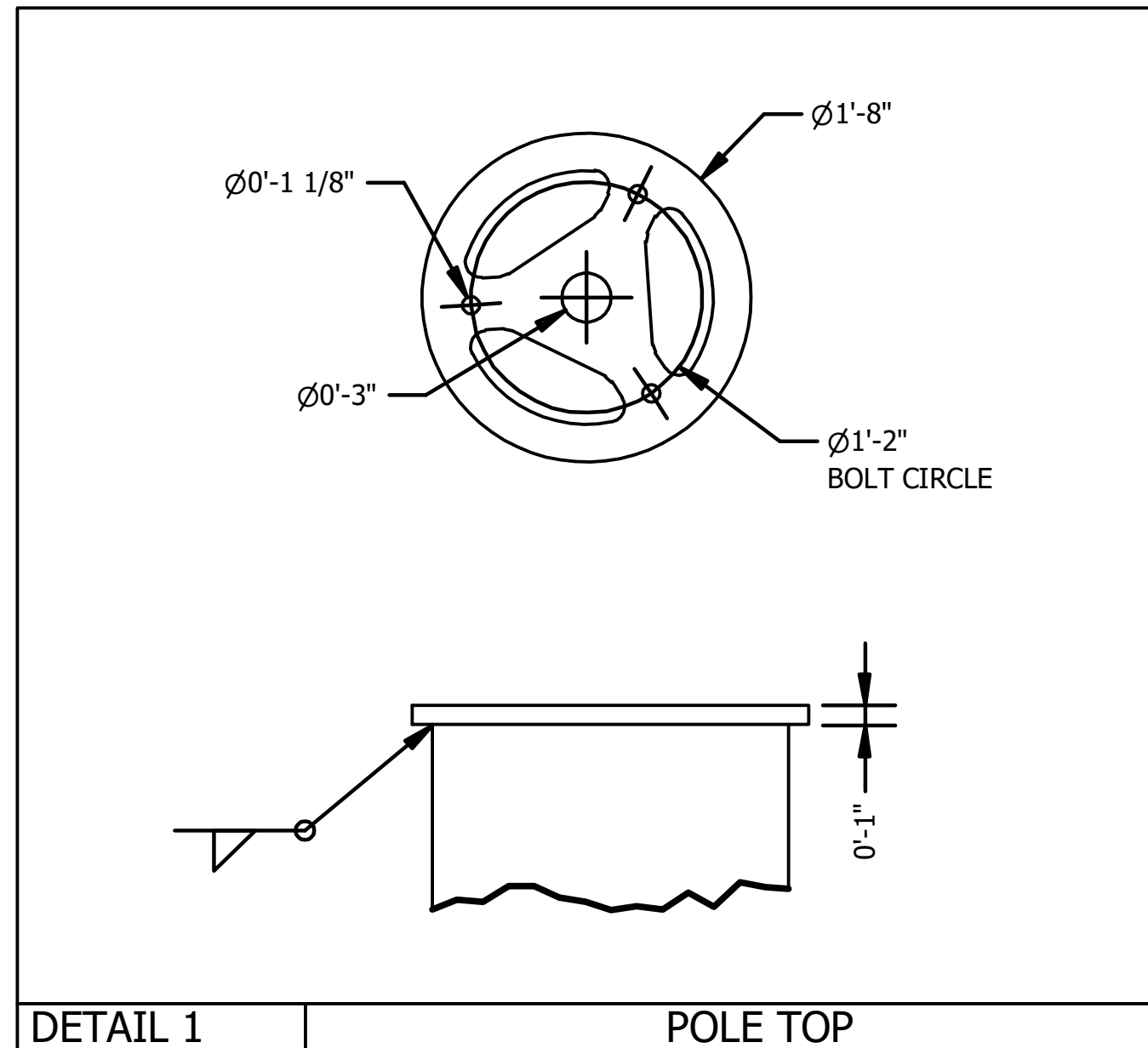
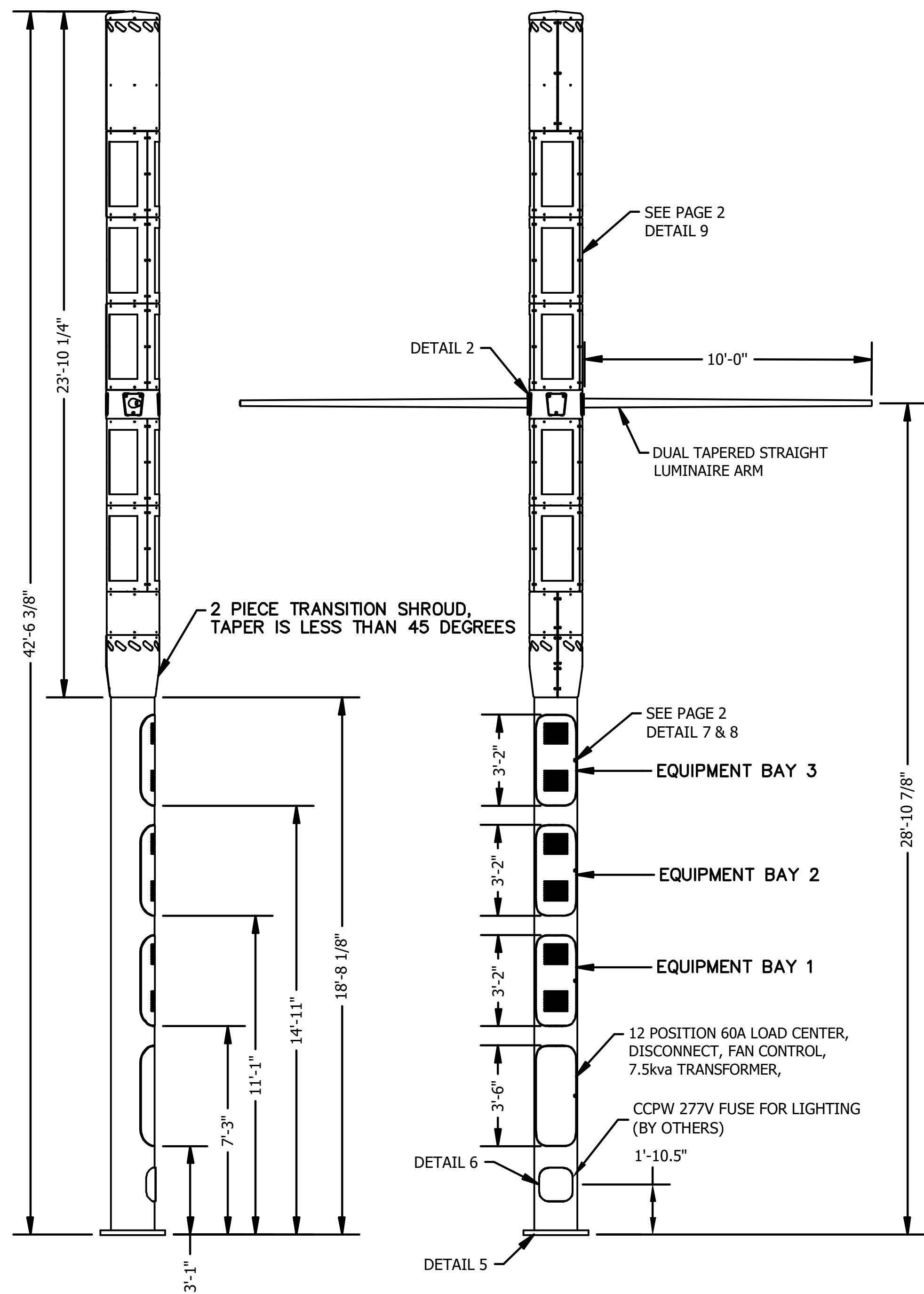


PROJECT No: 500-897-LV-EF DRAWN BY: TAA  
 DESIGNED BY: TAA CHECKED BY: JRT  
 APPROVED BY: \_\_\_\_\_  
**GCV** ENGINEERS \ SURVEYORS  
 1555 S. RAINBOW BLVD.  
 LAS VEGAS, NV 89146  
 T: 702.804.2000  
 F: 702.804.2299  
 gcvengineering.com

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

DRAWING NO. **ST-17**  
 SHT. 169 OF 169  
 L-2304





POLE DESIGN TO:  
AASHTO-2015-105MPH WIND VELOCITY

FINISH  
BASE COAT: HOT DIP GALVANIZING TO ASTM:A123

FINISH COAT: TGIC OR URETHANE POLYESTER POWDER  
W/ANTI-GRAFITTI CLEAR COAT

COLOR: RAL 6009 (GREEN)

VALMONT SPEC: F-664

MATERIAL DATA		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE TUBE	A500 GR B	42
POLE BASE	A36	36
ANCHOR BOLTS	F1554 OR GR. 55	55
GALVANIZING - HARDWARE	A153	

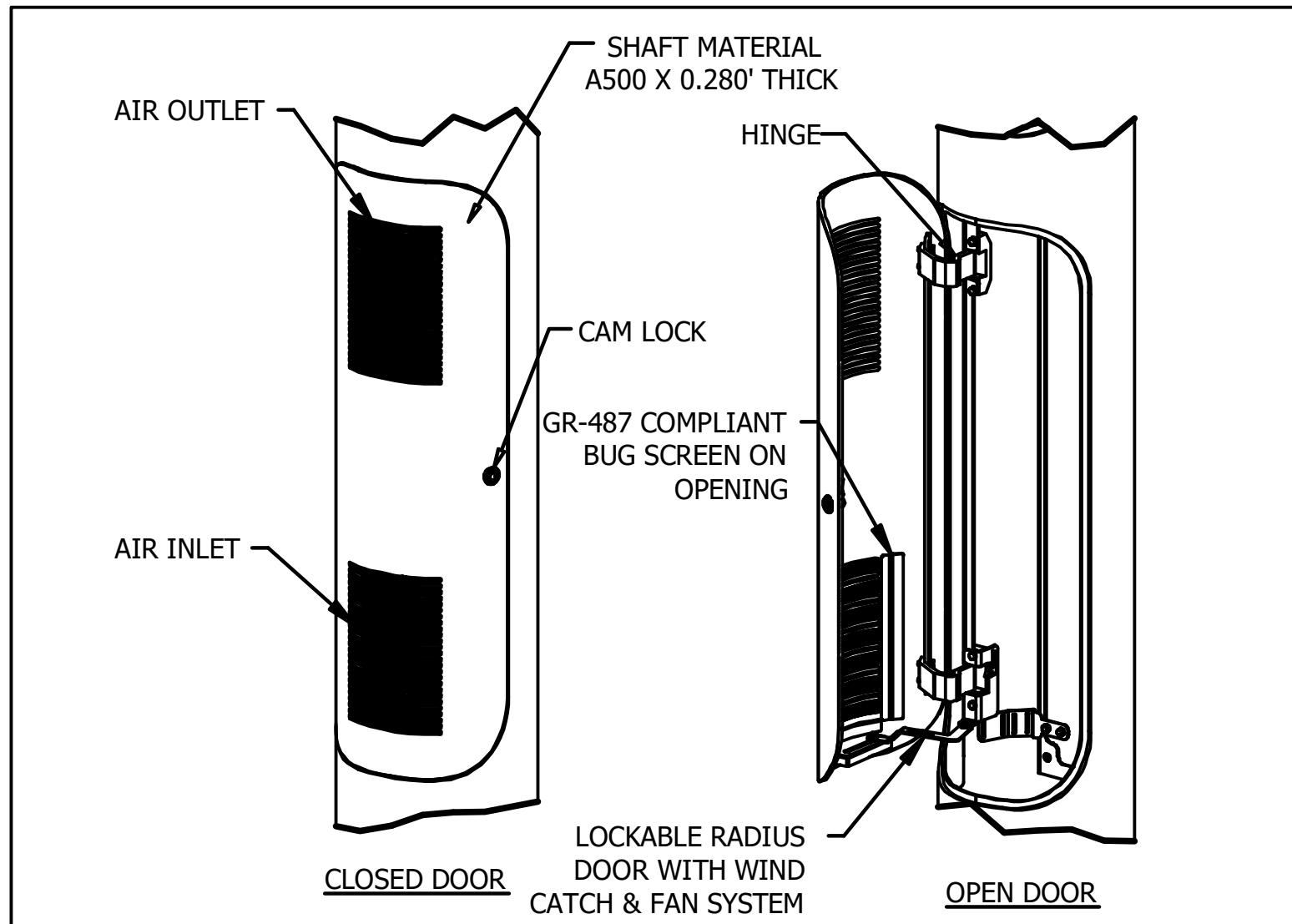
POLE DATA																	
ITEM	QTY	POLE TUBE				BASE PLATE				LUMINAIRE ARM				ANCHOR BOLT			
		BASE DIA. (IN)	TOP DIA. (IN)	POLE HEIGHT (FT)	GAUGE OR THK. (IN)	ROUND "D" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE/SLOT "Z" (IN)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE OR THICK (IN)	LENGTH (FT)	DIA "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)
1	1	18.00	18.00	21.00	0.375	27.00	23.00	2.00	1.75	3.86	2.40	0.12	10.00	1.50	54.00	6.00	8.00



NV expire 12/31/21  
Date Signed: 2/23/21

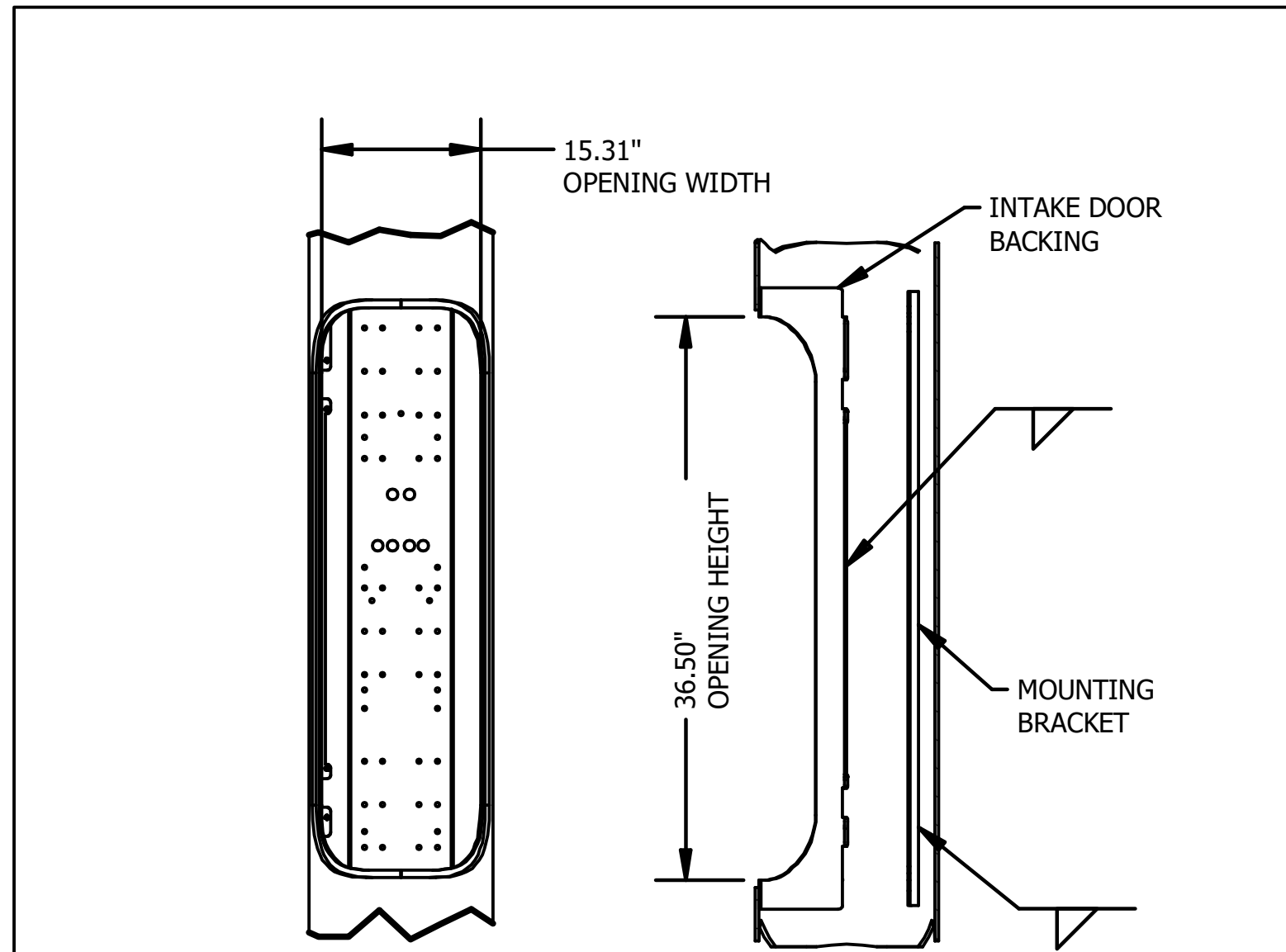
REV	AAH 02/15/21	AAH 02/15/21	REVISED NOTES FOR EQUIPMENT	SOLD TO:	JOB TYPE 5 - SMALL CELL CLARK COUNTY, NV	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.		ORDER NUMBER: 456863-P3
	AAH 01/29/21	AAH 02/01/21	INCLUDED ADAPTER PLATE	SHIP TO:				PAGE NUMBER: 1 OF 2
	RS8 01/14/21	AAH 01/19/21		P.O. #:				DRAWING NUMBER: NV456863P3
				AGENT:	TITLE: SMALL CELL STRUCTURE		REV: B	



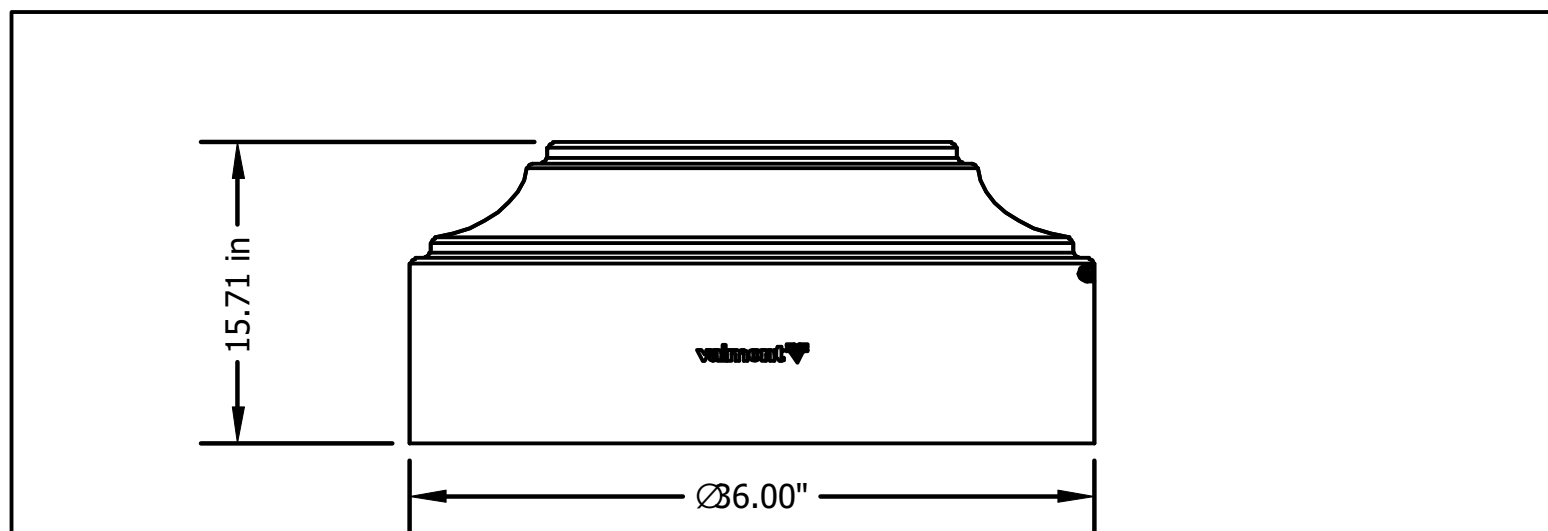


POLE & SHROUD EQUIPMENT BAYS TO MEET GR487 STANDARDS FOR THERMAL PERFORMANCE.  
BAYS NOT TO EXCEED 55 °C UNDER NORMAL OPERABLE CONDITION.

DETAIL 7 EQUIPMENT BAY



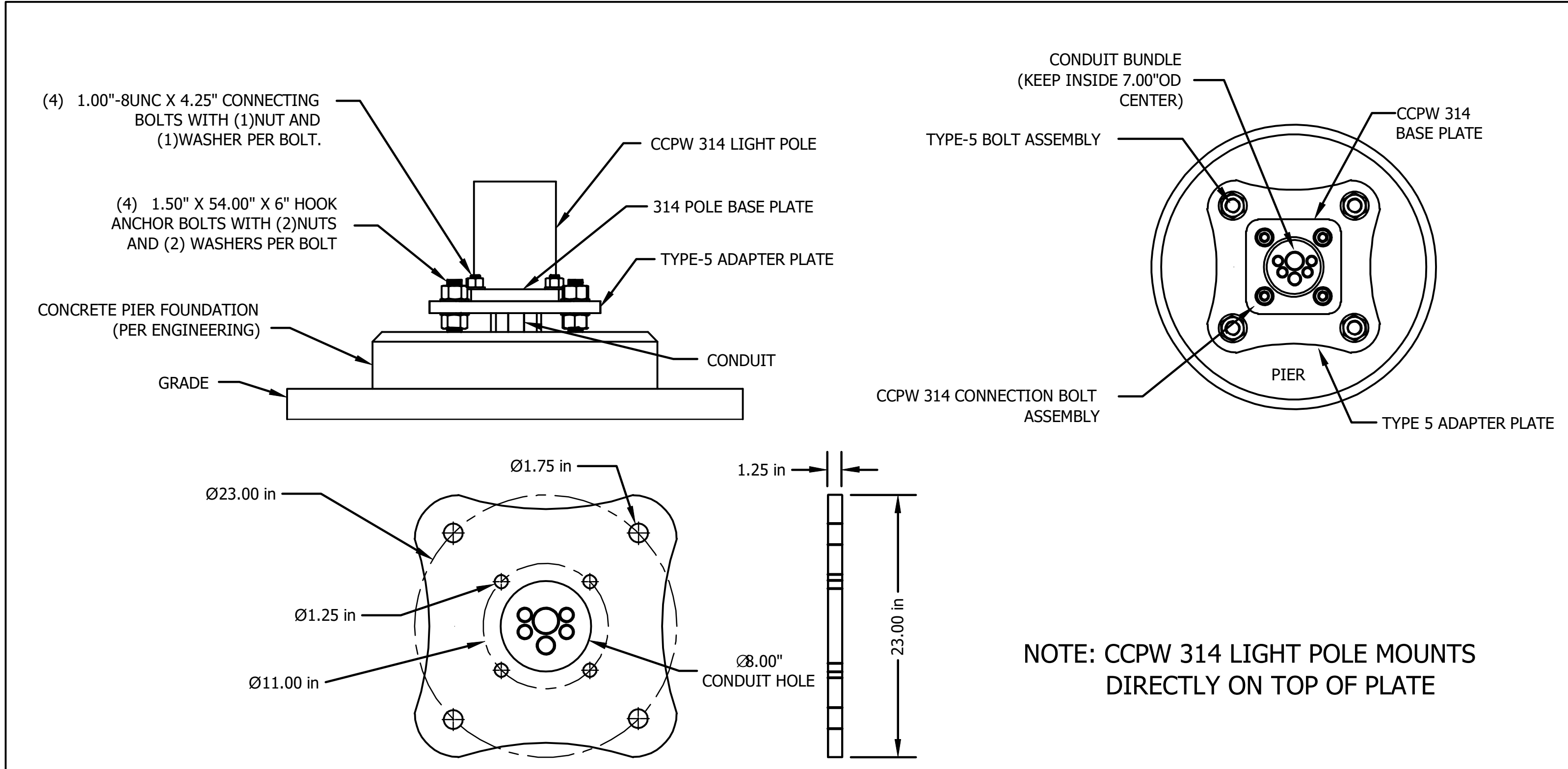
DETAIL 8 EQUIPMENT BAY



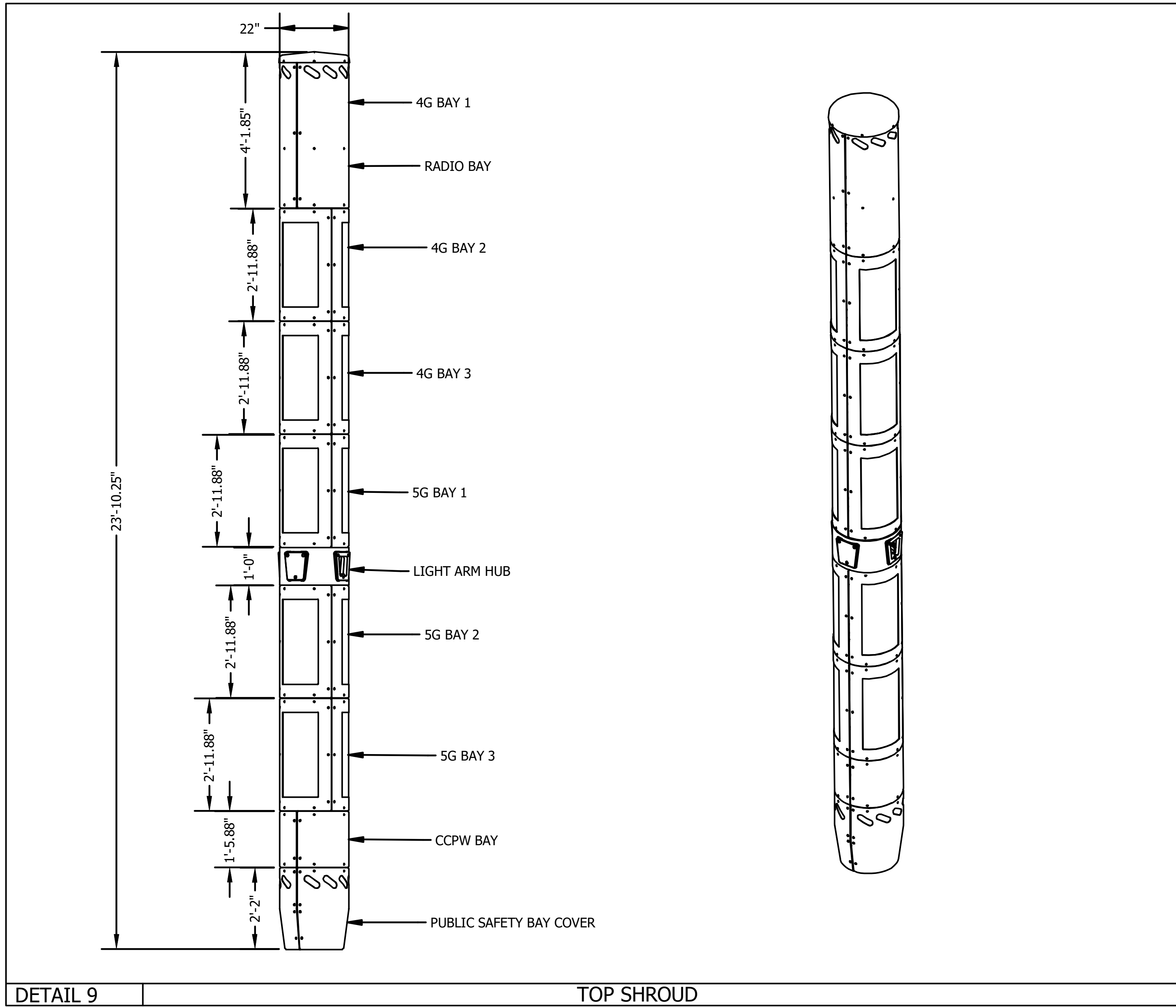
DETAIL 10 CL02AC BASE COVER

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

VIBRATION DISCLAIMER



ADAPTER PLATE - VALMONT TYPE 5 TO CCPW 314 LIGHT POLE



DETAIL 9 TOP SHROUD

JOB TYPE 5 - SMALL CELL CLARK COUNTY, NV	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.		ORDER NUMBER: 456863-P3
			PAGE NUMBER: 2 OF 2
TITLE SMALL CELL STRUCTURE	Valley, NE 68064 (402) 359-2201	DRAWING NUMBER NV456863P3	REV B





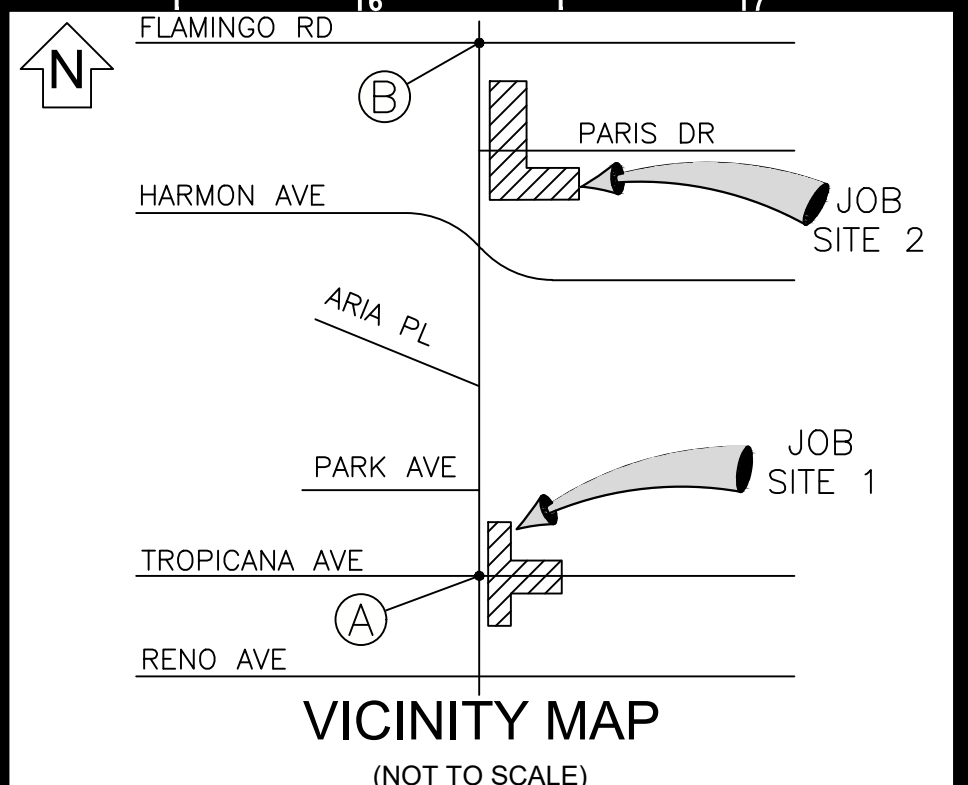
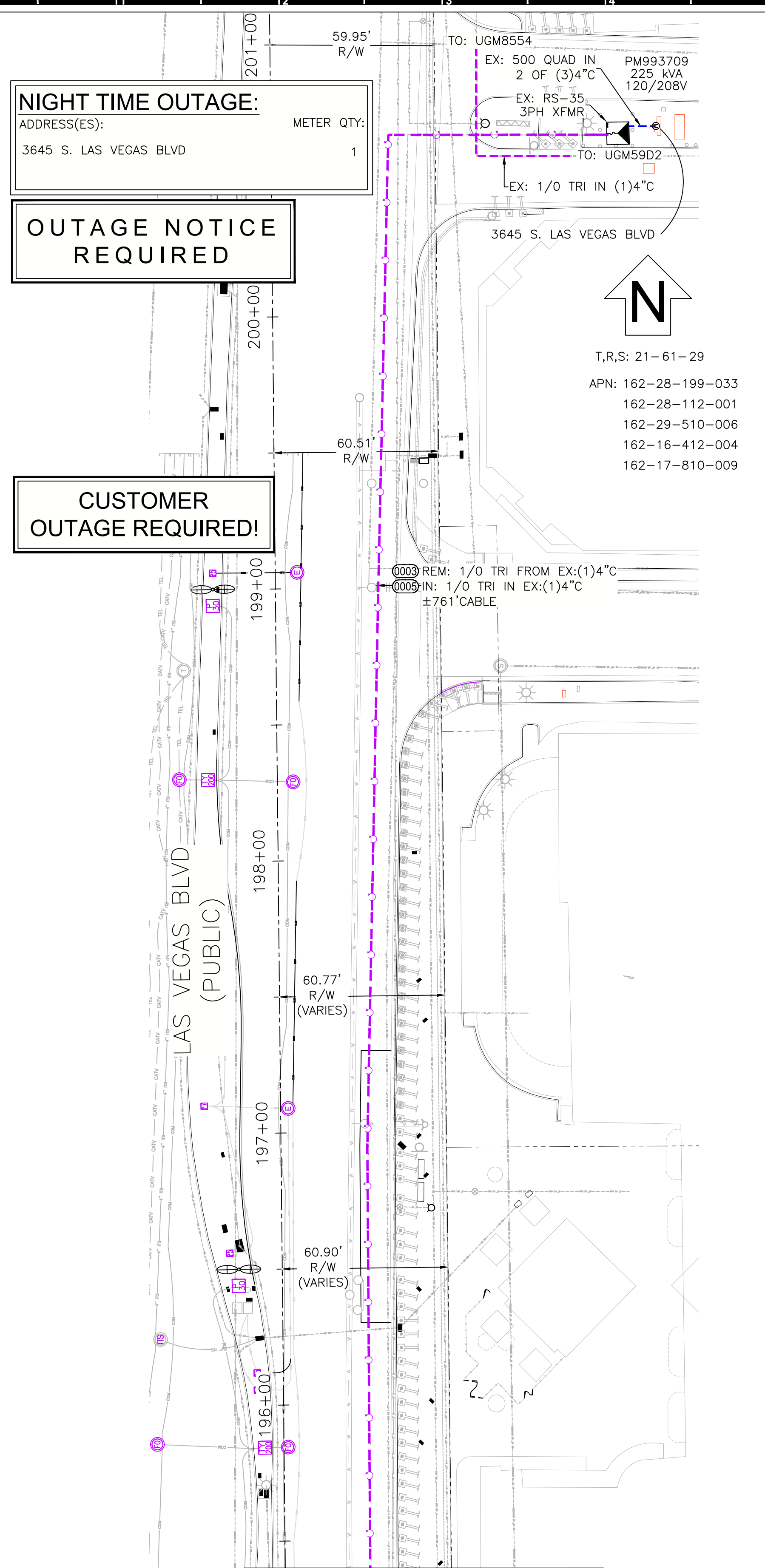
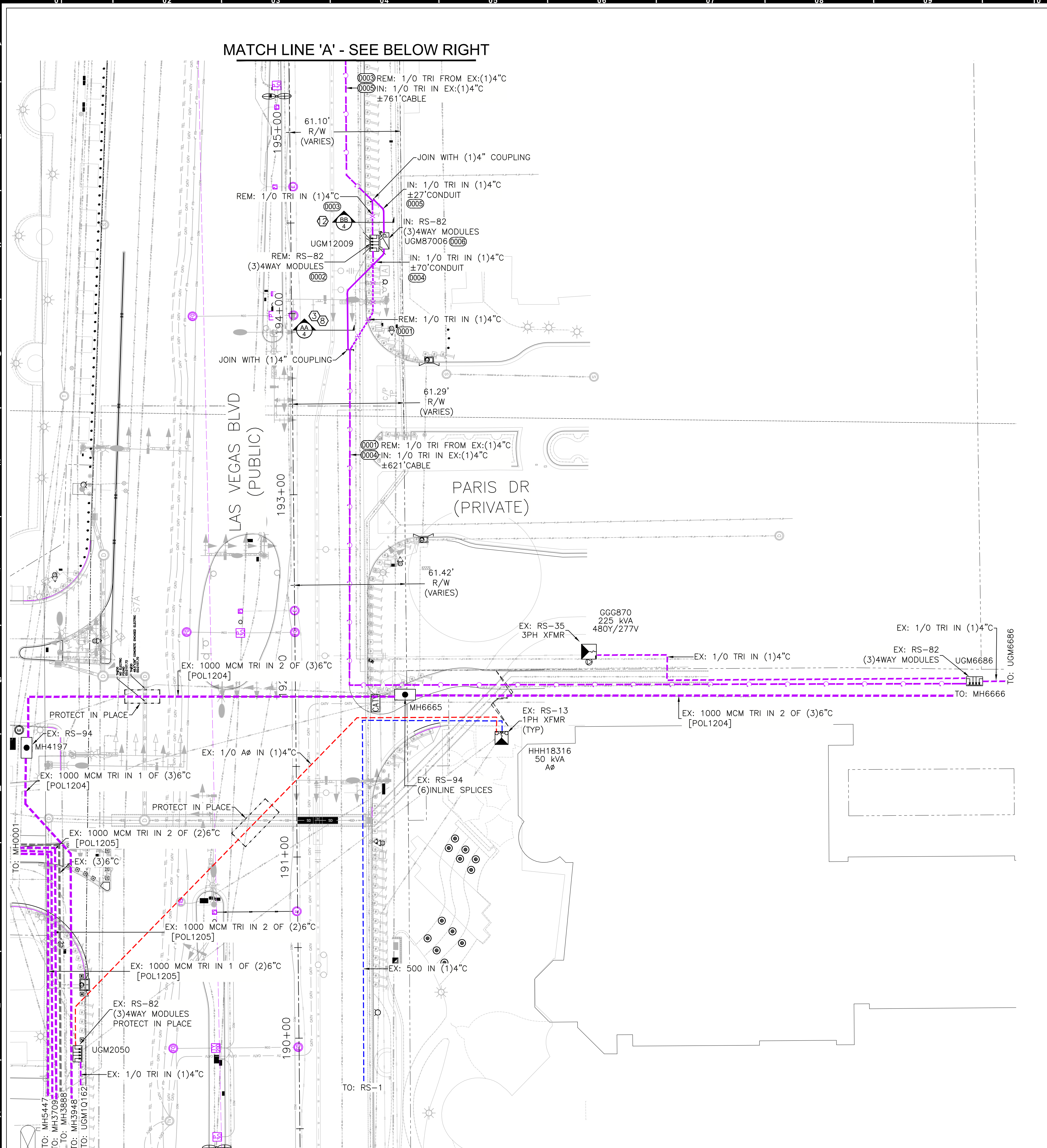






PRELIMINARY DO NOT USE FOR CONSTRUCTION

PRELIMINARY DO NOT USE FOR CONSTRUCTION



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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
CALL BEFORE YOU DO OVERHEAD

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**CALL 811**  
REGIONAL 'CALL BEFORE YOU DIG' NUMBER: 1-800-642-2444  
CALL 1-702-402-2929

**REVISIONS**

NO.	DESCRIPTION	DATE	REV BY

**NON-STANDARD PROJECT PURPOSE:**

TO REMOVE AND REPLACE NVE FACILITIES DUE TO CLARK COUNTY PUBLIC WORKS PROJECT

**EXHIBIT 'A'**

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

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

**CUSTOMER INFORMATION:**  
 APPLICANT: COUNTY OF CLARK  
 APPLICANT CONTACT: YAZDANI, KAIZAD  
 CONTACT: YAZDANI, KAIZAD \*\* 702-455-2992

**GOVERNMENT INFORMATION:**  
 AGENCY(S): CLARK

APPROVAL DATE(S): N/A

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

**NVEnergy.**

**CC-LAS VEGAS BLVD, TROPICANA TO FLAMINGO PHASE E & LAS VEGAS BLVD - TROPICANA TO FLAMINGO**

**PROJ #3007191760 SCALE: 1"=30'**  
**SHEET # 3 OF 4 DATE: 7/29/2021**

**NIGHT TIME OUTAGE:**  
 ADDRESS(ES):  
 3645 S. LAS VEGAS BLVD  
 METER QTY: 1

**OUTAGE NOTICE REQUIRED**

**CUSTOMER OUTAGE REQUIRED!**

**APPROVED FOR PERMITTING**  
 THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.  
 NIGHT WORK: YES  NO   
 ENCROACHMENT PERMIT # \_\_\_\_\_  
 # \_\_\_\_\_ DATE \_\_\_\_\_

**CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED\***  
 DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY  
 PW# \_\_\_\_\_  
 DATE \_\_\_\_\_  
 \* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE WITHIN COUNTY RIGHT-OF-WAY  
 ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR

**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.



