DEPARTMENT OF PUBLIC WORKS

Mayor:
CAROLYN G. GOODMAN

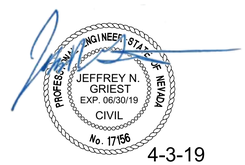
City Council:
LOIS TARKANIAN (Mayor Pro-Tem)
STAVROS S. ANTHONY
BOB COFFIN
MICHELE FIORE
CEDRIC CREAR
WARD 2 VACANT

City Manager:
SCOTT D. ADAMS

Director of Public Works:
MIKE JANSSEN, P.E., P.T.O.E.

City Engineer:
ALLEN E. PAVELKA, P.E.

30% SUBMITTAL
NOT FOR CONSTRUCTION
MARCH 2019



4-3-19

FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

Funded By:
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

Reviewed By:

CLV CITY ENGINEER DATE

CLV PROJECT MANAGER DATE

CLV CITY TRAFFIC ENGINEER DATE

CLV CONSTRUCTION MANAGER DATE

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT DATE

REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA DATE

SOUTHWEST GAS CORPORATION DATE

CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK DATE
THE AFFIXED CENTURYLINK NEVADA 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 STANDARD REGULATIONS.

COX COMMUNICATIONS LAS VEGAS, INC. DATE

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

NV ENERGY - TRANSMISSION DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT#
SHEETS:

THE SIGNATURE ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN CONFORMANCE WITH THE CLV NO-CUT POLICY.

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 3, 2019 DESIGNED BY:
SUBMITTAL STAGE: 30% SUBMITTAL DRAWN BY:
CHECKED BY:

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

SHEET
COVER SHEET

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
CV
OF

DRAWING NO.
107v7368

708736-CV.dwg

SHEET INDEX

1	CV	COVER SHEET
2	GN1	SHEET INDEX, ABBREVIATIONS, LEGEND & VICINITY MAP
3	GN2	CITY OF LAS VEGAS NOTES
4	GN3	LVVWD, RTC & SOUTHWEST GAS CORPORATION NOTES
5	KM1	PROJECT KEYMAP
6	TY1	TYPICAL SECTIONS - CHARLESTON BLVD
7	TY2	TYPICAL SECTIONS - CHARLESTON BLVD
8	TY3	TYPICAL SECTIONS - CHARLESTON BLVD
9	TY4	TYPICAL SECTIONS - CHARLESTON BLVD
10	SD1	STORM DRAIN PLAN & PROFILE - "CH" 55+00 TO "CH" 62+00
11	SD2	STORM DRAIN PLAN & PROFILE - "CH" 62+00 TO "CH" 70+00
12	SD3	STORM DRAIN PLAN & PROFILE - "CH" 70+00 TO "CH" 78+00
13	SD4	STORM DRAIN PLAN & PROFILE - "CH" 78+00 TO "CH" 86+00
14	SD5	STORM DRAIN PLAN & PROFILE - "CH" 86+00 TO "CH" 93+00
15	SD6	STORM DRAIN PLAN & PROFILE - "CH" 93+00 TO "CH" 101+00
16	SD7	STORM DRAIN PLAN & PROFILE - "CH" 101+00 TO "CH" 109+00
17	SD8	STORM DRAIN PLAN & PROFILE - "CH" 109+00 TO "CH" 117+00
18	SD9	STORM DRAIN PLAN & PROFILE - "6th" 2+95 TO "6th" 10+00
19	SD10	STORM DRAIN PLAN & PROFILE - "6th" 10+00 TO "6th" 17+00
20	SD11	STORM DRAIN PLAN & PROFILE - "6th" 17+00 TO "6th" 24+00
21	SD12	STORM DRAIN PLAN & PROFILE - "6th" 24+00 TO "6th" 30+00
22	SD13	STORM DRAIN PLAN & PROFILE - "8th" 15+00 TO "8th" 21+00
23	SD14	STORM DRAIN PLAN & PROFILE - EAST PARK PASEO
24	SD15	STORM DRAIN PROFILES - LATERAL PROFILES
25	DT1	TYPICAL TRENCH DETAILS
26	UT1	UTILITY PLAN - "CH" 55+00 TO "CH" 62+00
27	UT2	UTILITY PLAN - "CH" 62+00 TO "CH" 70+00
28	UT3	UTILITY PLAN - "CH" 70+00 TO "CH" 78+00
29	UT4	UTILITY PLAN - "CH" 78+00 TO "CH" 86+00
30	UT5	UTILITY PLAN - "CH" 86+00 TO "CH" 93+00
31	UT6	UTILITY PLAN - "CH" 93+00 TO "CH" 101+00
32	UT7	UTILITY PLAN - "CH" 101+00 TO "CH" 109+00
33	UT8	UTILITY PLAN - "CH" 109+00 TO "CH" 117+00
34	UT9	UTILITY PLAN - "6th" 2+95 TO "6th" 10+00
35	UT10	UTILITY PLAN - "6th" 10+00 TO "6th" 17+00
36	UT11	UTILITY PLAN - "6th" 17+00 TO "6th" 24+00
37	UT12	UTILITY PLAN - "6th" 24+00 TO "6th" 30+00
38	UT13	UTILITY PLAN - "8th" 15+00 TO "8th" 21+00
39	UT14	UTILITY PLAN - EAST PARK PASEO
40	SM1	SIGNING & STRIPING PLAN - "CH" 55+00 TO "CH" 62+00
41	SM2	SIGNING & STRIPING PLAN - "CH" 62+00 TO "CH" 70+00
42	SM3	SIGNING & STRIPING PLAN - "CH" 70+00 TO "CH" 78+00
43	SM4	SIGNING & STRIPING PLAN - "CH" 78+00 TO "CH" 86+00
44	SM5	SIGNING & STRIPING PLAN - "CH" 86+00 TO "CH" 93+00
45	SM6	SIGNING & STRIPING PLAN - "CH" 93+00 TO "CH" 101+00
46	SM7	SIGNING & STRIPING PLAN - "CH" 101+00 TO "CH" 109+00
47	SM8	SIGNING & STRIPING PLAN - "CH" 109+00 TO "CH" 117+00
48	SM9	SIGNING & STRIPING PLAN - "6th" 2+95 TO "6th" 10+00
49	SM10	SIGNING & STRIPING PLAN - "6th" 10+00 TO "6th" 17+00
50	SM11	SIGNING & STRIPING PLAN - "6th" 17+00 TO "6th" 24+00
51	SM12	SIGNING & STRIPING PLAN - "6th" 24+00 TO "6th" 30+00
52	TS1	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & COMMERCE ST
53	TS2	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & MAIN ST
54	TS3	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & CASINO CTR BLVD
55	TS4	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & 3rd ST
56	TS5	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & 4th ST
57	TS6	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & LAS VEGAS BLVD
58	TS7	LOOP REPLACEMENT PLAN - CHARLESTON BLVD & 10th ST

SHEET INDEX (CONTINUED)

ABBREVIATIONS

@	AT	MLCP	MULTI-LAYER COMPOSITE PIPE
AB	ABANDONED	MTR	METER
AC	ASPHALTIC CONCRETE	NDOT	NEVADA DEPT OF TRANSPORTATION
ACP	ASBESTOS CEMENT PIPE	NTS	NOT TO SCALE
AEP	AUTHORIZATION TO ENTER PROPERTY	NVE	NV ENERGY
APPROX	APPROXIMATE	OHP	OVERHEAD POWER LINE
AVAR	AIR VALVE ASSEMBLY	OHSTLT	OVERHEAD POWER LINE
B/C, BC	BACK OF CURB	PB	PULL BOX
BCR	BACK OF CURB RADIUS	PC	POINT OF CURVATURE
BM	BENCHMARK	P.I.P.	PROTECT IN PLACE
BOT	BOTTOM	PP	POWER POLE
BR	BACK OF RAMP	PRC	POINT OF REVERSE CURVE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CATV, TV	CABLE TELEVISION	℄, PL	PROPERTY LINE
CC	CLARK COUNTY	R RADIUS	RT RIGHT
CCPW	CLARK COUNTY PUBLIC WORKS	R/W, R.O.W.	RIGHT OF WAY
CIPP	CURED-IN-PLACE PIPE	SCCP	STEEL CYLINDER CONCRETE PIPE
℄, CL	CENTERLINE	SD	STORM DRAIN
CLSM	CONTROLLED LOW STRENGTH MATERIAL	SF	SQUARE FOOT
CLV	CITY OF LAS VEGAS	SP	SPECIAL PROVISIONS
CMP	CORRUGATED METAL PIPE	SRVPED	SERVICE PEDESTAL
CONC	CONCRETE	SS	SANITARY SEWER
COND	CONDUCTOR	STA.	STATION
CPM	CAPITAL PROJECT MANAGEMENT	STD	STANDARD
D, DIA	DIAMETER	STLT	STREET LIGHT
DG	DECOMPOSED GRANITE	SV	SPRINKLER VALVE
D/W	DRIVEWAY	S/W	SIDEWALK
DWG	DRAWING	SWG	SOUTHWEST GAS
ECR	END OF CURB RETURN (AT B/C)	SY	SQUARE YARD
ELEC	ELECTRIC	T, TEL	TELEPHONE
ELEV	ELEVATION	TC	TOP OF CURB
EOP, EP	EDGE OF PAVEMENT	TCE	TEMP. CONSTRUCTION EASEMENT
EX.	EXISTING	TEMP.	TEMPORARY
FC	FACE OF CURB	TRANS.	TRANSITION
FD	FOUND	TRC	TOP OF RAMP CURB
FG	FINISHED GRADE	TS	TRAFFIC SIGNAL
FH, HYD	FIRE HYDRANT	TYP.	TYPICAL
FT	FOOT, FEET	USD	UNIFORM STANDARD DRAWING
G	GAS	USS	UNIFORM STD SPECIFICATIONS
GM	GAS METER	W	WATER LINE
GV	GAS VALVE	WC	WHEEL CHAIR
GW	GUY WIRE	WM	WATER METER
HP	HIGH PRESSURE	WV	WATER VALVE
INT	INTERSECTION	W/	WITH
IRR	IRRIGATION	Δ	INCLUDED DELTA ANGLE
L	LENGTH		
LF	LINEAL FOOT, LINEAR FEET		
LT	LEFT		
LVVWD	LAS VEGAS VALLEY WATER DISTRICT		
MH	MANHOLE		

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME BEING NAD 83 (2011) EPOCH 2010.

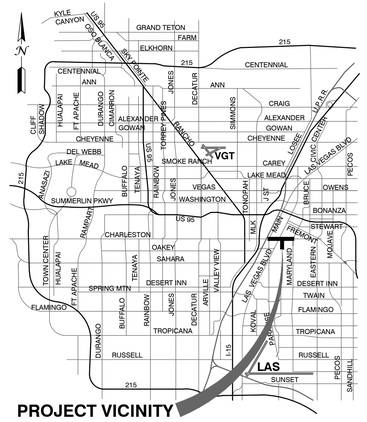
ALIGNMENT ABBREVIATIONS

"CC"	CASINO CENTER BOULEVARD
"CH"	CHARLESTON BOULEVARD
"CSN"	COMMERCE STREET (NORTH)
"CSS"	COMMERCE STREET (SOUTH)
"GA"	GASS AVENUE
"HA"	HOOVER AVENUE
"LVB"	LAS VEGAS BOULEVARD
"MP"	MARYLAND PARKWAY (SOUTH)
"MPN"	MARYLAND PARKWAY (NORTH)
"MS"	MAIN STREET (SOUTH)
"MSW"	MAIN STREET (WEST)
"3rd"	3rd STREET
"3rdN"	3rd STREET (NORTH)
"4th"	4th STREET
"6th"	6th STREET
"6thN"	6th STREET (NORTH)
"7th"	7th STREET
"8th"	8th STREET
"10th"	10th STREET
"10thN"	10th STREET (NORTH)
"11th"	11th STREET
"13th"	13th STREET

LEGEND

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- AUTHORIZATION TO ENTER PROPERTY (AEP)
- PATCH / SAWCUT LINE
- STREET LIGHT CONDUIT
- TRAFFIC SIGNAL CONDUIT
- FIBER OPTIC CONDUIT

- AREA LIGHT
- BENCHMARK
- CONTROL CABINET
- ELECTRIC SERVICE PEDESTAL (200 AMP)
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELEC. VAULT/PULLBOX
- FIRE HYDRANT
- FOUND MONUMENT
- GAS METER
- GAS VALVE
- ILLUMINATED STREET SIGN
- IRR. CONTROLLER
- IRR. VALVE
- LOOP DETECTOR
- PEDESTRIAN INDICATION AND DIRECTION
- PULLBOX (P-30)
- PULLBOX (No 7)
- TYPE 200 PULLBOX
- SANITARY SEWER MANHOLE
- SET MONUMENT
- SIDEWALK RAMP
- SIGN
- STORM DRAIN INLET
- STORM DRAIN MANHOLE
- STREET LIGHT
- STREET LIGHT PULLBOX
- TELEPHONE MANHOLE
- TELEPHONE PULLBOX
- TRAFFIC SIGNAL INDICATION WITH BACKPLATE
- TRAFFIC SIGNAL INDICATION WITH DIRECTIONAL ARROW AND BACKPLATE
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL PULLBOX
- TV PULLBOX
- UTILITY POLE
- UTILITY POLE GUY WIRE
- UTILITY VAULT
- VIDEO DETECTION CAMERA
- WATER VAULT/CABINET
- WATER MANHOLE
- WATER METER
- WATER VALVE



VICINITY MAP

NOT TO SCALE

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager

Date _____ Project No. 000000

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# .
H# 72212
DESIGNED BY:
DATE: April 3, 2019
DRAWN BY:
SUBMITTAL STAGE: **30% SUBMITTAL**
CHECKED BY:

TITLE
FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND

SHEET
SHEET INDEX, ABBREVIATIONS, LEGEND & VICINITY MAP

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
GN1
OF

DRAWING NO.
107v7368

708726-GN.dwg

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.

9. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235, CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.

12. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.

14. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.

15. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE CLV BUILDING DEPARTMENT.

16. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.

17. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

18. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT AND CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

19. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

20. NEWLY INSTALLED AND EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE SURVEYED AND DOCUMENTED PER SECTION 622 OF THE SPECIAL PROVISIONS.

21. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.

22. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED JULY 23, 2015 (CPM VERSION)

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.

3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.

4. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.

5. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.

6. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.

7. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

8. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED APRIL 13, 2015 (CPM VERSION)

CITY OF LAS VEGAS STREET LIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.

2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.

3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.

4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.

5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN No. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.

6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.

7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.

8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.

9. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS OR IN THE SPECIAL PROVISIONS.

10. ALL STREET LIGHTING AND TRAFFIC SIGNAL EQUIPMENT REMOVED AND / OR DESIGNATED TO BE SALVAGED SHALL BE DELIVERED BY THE CONTRACTOR TO THE APPROPRIATE CLV SERVICE YARD WITH A MEANS TO UNLOAD. A MINIMUM 24-HOUR NOTICE OF DELIVERY IS REQUIRED. CALL 229-6331 TO SET UP DELIVERY TIME AND LOCATION. REPAIR OF ANY DAMAGE TO EQUIPMENT DURING THIS PROCESS WILL BE THE CONTRACTOR'S RESPONSIBILITY, AT NO ADDITIONAL COST TO THE CITY.

REVISED JUNE 4, 2018 (CPM VERSION)

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.

3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.

7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.

9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

10. INSTALLATION OF CURVED SEWERS REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED JANUARY 13, 2015

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

3. 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 STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.

5. 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 CITY TRAFFIC ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.

7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5) FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.

8. 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 HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.

10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA, THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.

11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) TRANSIT IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JUNE 4, 2018

CITY OF LAS VEGAS FIRE AND RESCUE NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.7.12
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 3312
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. IFC § 106.3
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. IFC § 507
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC § 507
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102
    - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.12
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § 102.4
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. IFC § C104
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. IFC § 503.2.3
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 503.2.7; 503.2.8
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. IFC § 503.2.1
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24FT WIDE, FLOW LINE TO FLOW LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. IFC § 503.1.2
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. IFC § 503.2.5
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. IFC § 503.3
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

REVISED MARCH 1, 2016

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CIT

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.

CALL-BEFORE-YOU-OVERHEAD	1-702-227-2929
CALL-BEFORE-YOU-DIG	1-800-227-2600
STREETLIGHTS	1-702-229-6331
F.A.S.T.	1-702-432-5300

3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.

4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.

5. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).

6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE L.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.S3. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.

7. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623 T.02.16 OF THE SPECIAL PROVISIONS.

8. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.

9. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.

10. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.

11. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2 WIRE SYSTEM) OR CAMPBELL COMPANY ADVANCED ACCESSIBLE PEDESTRIAN SYSTEM BUTTONS WITH AAPS APC (CONTROLLER) IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3e PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, as modified by THE MANUFACTURER to fit on a 9"x12" sign, and shall be porcelain-enameled metal. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4) LATEST EDITION. WHEN AN EXISTING SIGNAL WITH EXISTING AUDIBLE-TACILE PUSH BUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARNESSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.

12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.

13. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD. WHERE FLASHING YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12F "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.

14. TRAFFIC SIGNAL CABINET SHALL BE A TYPE VIII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET, SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS.SHALL BE A 48 DETECTOR CHANNEL R CABINET AND SHALL INCLUDE TWO (2) RACK-MOUNTED, 12 SLOT, LOOP DETECTION RACKS, WITH 2 DETECTOR LOOP CHANNELS PER SLOT FULLY WIRED SO THAT ALL CHANNELS ARE USABLE AND 4 CHANNEL SLOTS THAT CAN ACCOMMODATE VIDEO DETECTION CARDS. THE CABINET SHALL CONTAIN A 764 OPTICOM PHASE SELECTOR IN A 760 RACK, WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES.

15. THE CONTRACTOR SHALL SUPPLY A MALFUNCTION MANAGEMENT UNIT (MMU) TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME, FOR TESTING AND PROGRAMMING PURPOSES. THE MMU SHALL BE A MODEL MMU-1600GE AS MANUFACTURED BY RENO A&E, OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE MMU TO AND PICKUP THE CONTROLLER AT 2985 RONEMUS DRIVE. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6075) SEVEN DAYS PRIOR TO PICK UP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL MMU FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE MMU AFTER THE PROJECT IS ACCEPTED.

16. CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.

17. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.

18. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS. All pedestrian signal faces shall provide "Walking Person", "Hand", and "Countdown" messages as provided by Duralight model #JXM-400-VIEIL or Dialight model #430-6479-001X, or approved equal. THE "COUNTDOWN" MESSAGE SHALL NOT FLASH. WHERE EXISTING SIGNALS ARE MODIFIED, THE CONTRACTOR SHALL VERIFY THAT LED PEDESTRIAN INDICATIONS FOR A SPECIFIC PHASE ARE OF THE SAME MANUFACTURE SO THAT THEY FUNCTION CORRECTLY, OR SHALL REPLACE ALL COUNTDOWN PEDESTRIAN INDICATIONS FOR THAT PHASE.

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES (CONTINUED)

19. VIDEO DETECTION SYSTEMS WILL BE EITHER ITERIS EDGE 2 WITH EDGECONNECT PAK, (IP addressable); PEEK VideoTrak IQ (with Ethernet port); OR TRAFICON VIP WITH VIEWCOM (IP ADDRESSABLE). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS. ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTAOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCs) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 8281 (SOLID CENTER CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND COAXIAL CABLE INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AB-0166-5-62 OR EQUIVALENT). THE LOCATION OF THE CAMERA ON THE MAST ARM SHALL BE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.

20. WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS, AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623 T.02.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

21. OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTICOM PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE. THE SOUTHBOUND OPTICOM DETECTOR SHALL BE WIRED TO INPUT PREEMPTS ON CHANNEL 1 IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4, UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE A NEW 768 AIP.

22. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.

23. INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.

24. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.

25. WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.

26. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01N OF THE CLV SPECIAL PROVISIONS.

REVISED 4/24/17 (CPM VERSION)

LVVWD STANDARD NOTES

LVVWD PROJECT # _____--_____

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.

2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.

3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.

6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.

8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.

9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.

10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.

11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.

12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600

14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL FACILITIES WILL INCLUDE THE PLACEMENT OF ANY APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

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

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

APPROVED FOR CONSTRUCTION

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

RTC NOTES

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY BUS STOPS AND BUS STOP AMENITIES SHALL BE AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANT AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY RTC TRANSIT OF PROPOSED BUS STOP CLOSURES AND/OR BUS STOP AMENITY DISRUPTIONS VIA NOTIFYRTCTRANSIT@RTCSNV.COM AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF WORK. NOTIFICATION OF BUS STOP CLOSURES INVOLVING REMOVAL OF EXISTING AMENITIES SHALL BE PROVIDED TO RTC TRANSIT AT LEAST 10 CALENDAR DAYS PRIOR TO THE START OF WORK.

2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES 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

ITS (FAST) NOTES

1. EXISTING ITS CONDUIT AND FIBER OPTIC CABLE MUST BE PROTECTED AND MAINTAINED AT ALL TIMES.

2. CONTRACTOR SHALL PROVIDE A LAYER 2 FIELD-HARDENED ETHERNET SWITCH TO RTC-FAST PER RTC UNIFORM STANDARD SPECIFICATION (USSCCA) NO. 684.

3. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020

2. 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.
    a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.

3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION

4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

APPROVED FOR CONSTRUCTION

_____
SOUTHWEST GAS CORPORATION DATE

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS
H# 72212 BID# .
DATE: April 3, 2019 DESIGNED BY:
SUBMITTAL STAGE: DRAWN BY:
30% SUBMITTAL CHECKED BY:

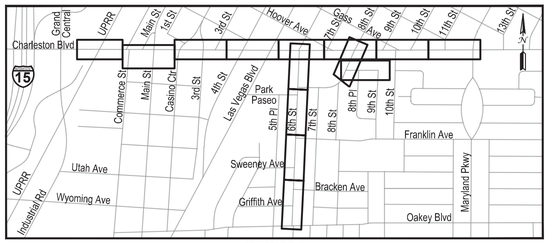
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

SHEET
LVVWD, RTC & SOUTHWEST GAS CORPORATION NOTES

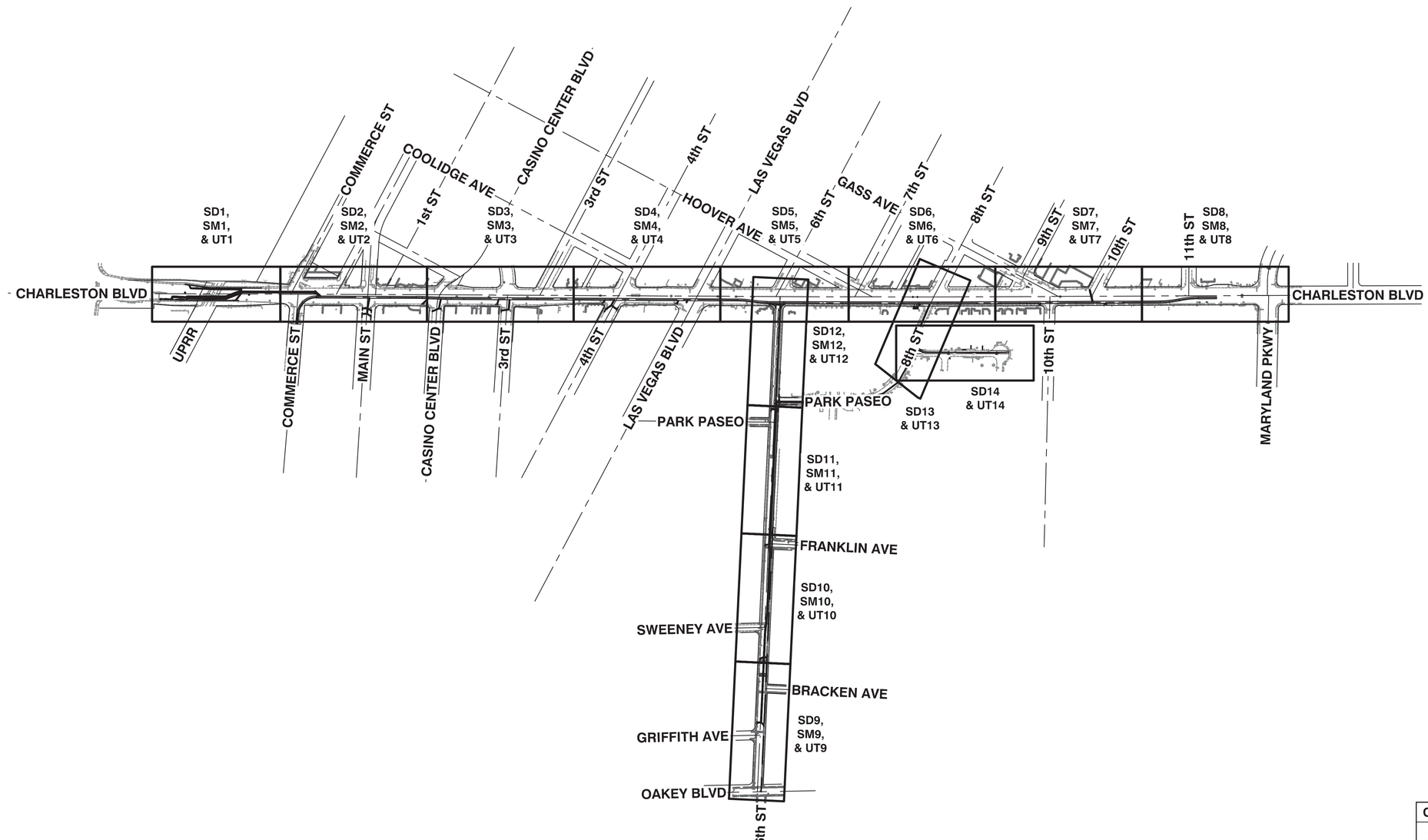
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
GN3
OF
DRAWING NO.
107v7368

708726-GN.dwg



KEYMAP



GRAPHIC SCALE

300 0 150 300 600

(IN FEET)

CALL BEFORE CONSTRUCTION ⚠

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# -
DATE: March 19, 2019
SUBMITTAL STAGE: 30% SUBMITTAL
DESIGNED BY:
DRAWN BY:
CHECKED BY:

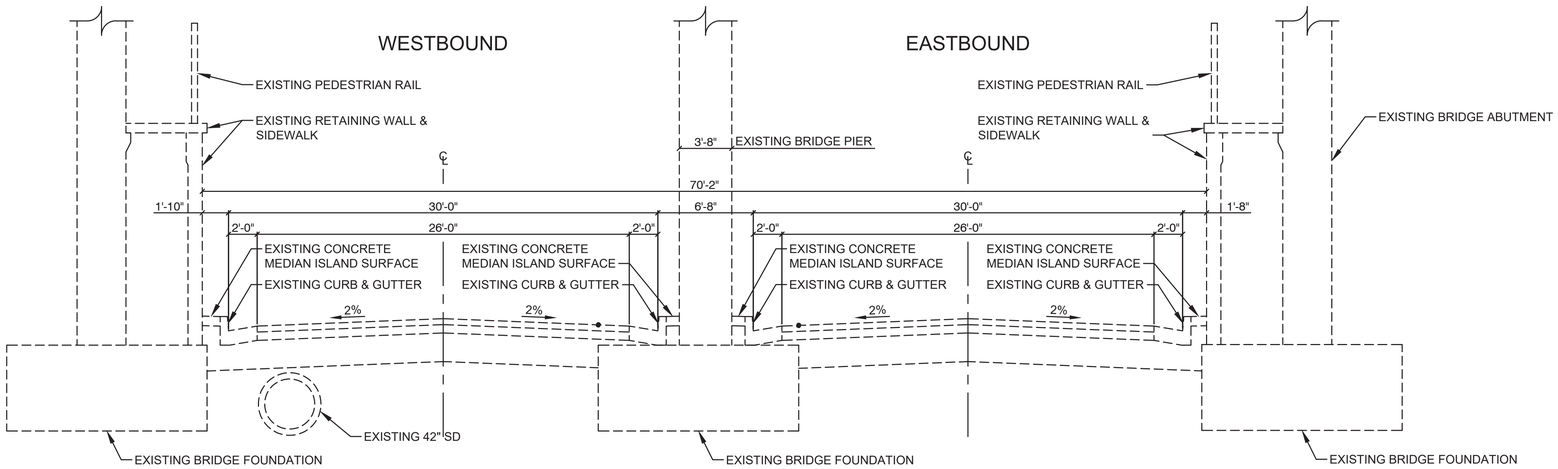
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

SHEET
PROJECT KEY MAP

30% SUBMITTAL NOT FOR CONSTRUCTION

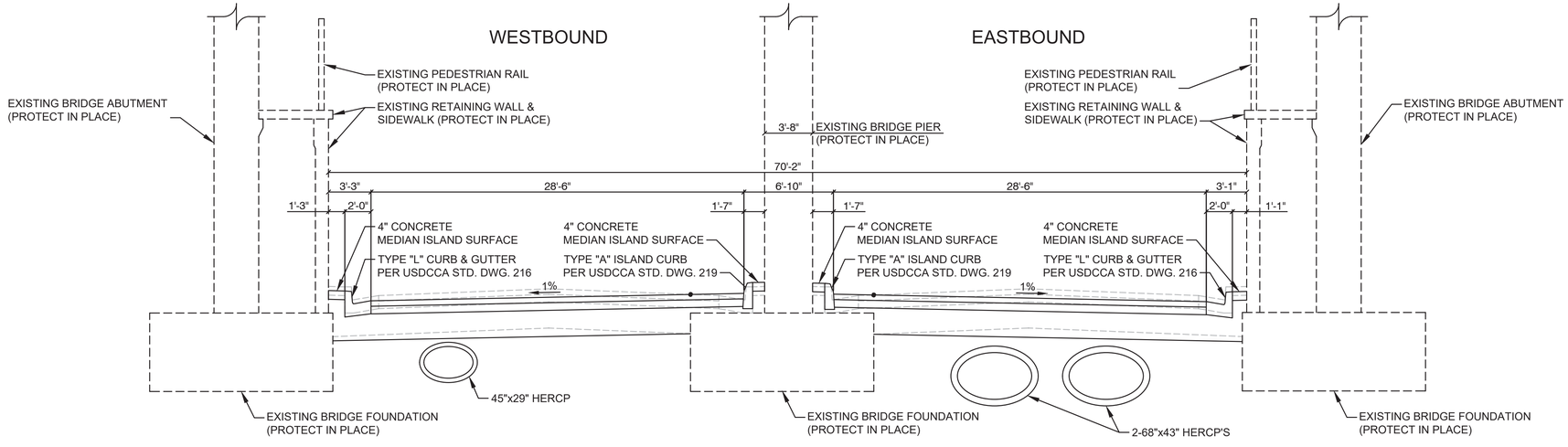
SHEET
KM1
OF
DRAWING NO.
107v7368

7097368-KM1.dwg



EXISTING CHARLESTON BOULEVARD UNDER UPRR

NTS



PROPOSED CHARLESTON BOULEVARD UNDER UPRR

NTS

GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)

CALL BEFORE CONSTRUCTION ⚠		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# -
H# 72212
DESIGNED BY:
DATE: March 19, 2019
DRAWN BY:
SUBMITTAL STAGE: 30% SUBMITTAL
CHECKED BY:

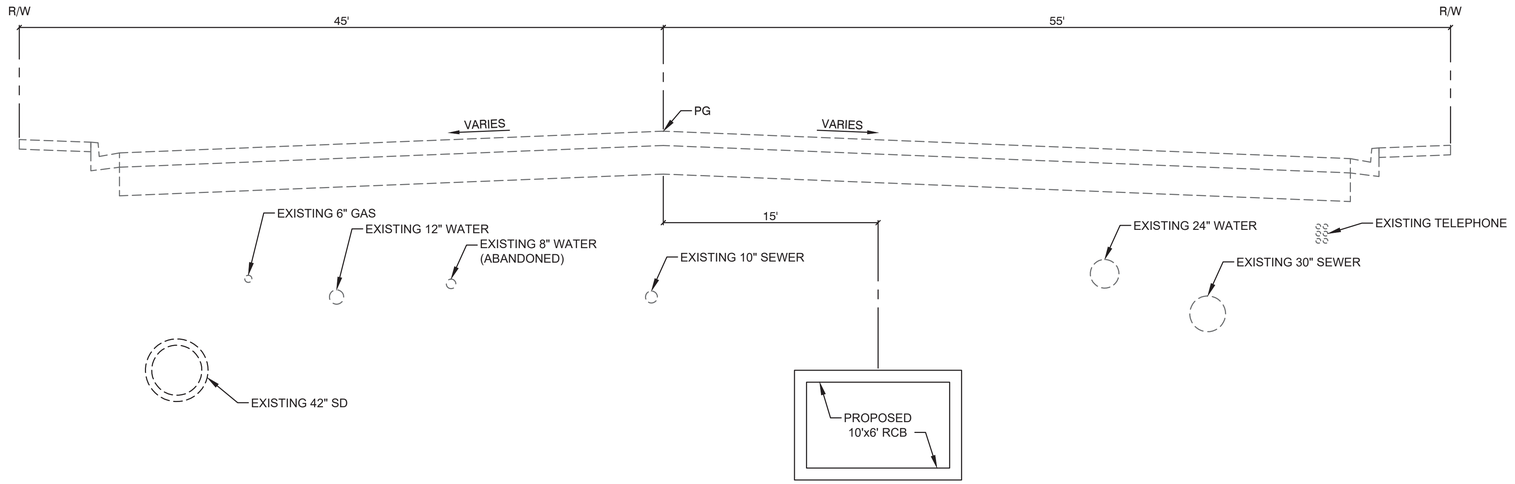
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

SHEET
TYPICAL SECTIONS

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
TY1
OF
DRAWING NO.
107v7368

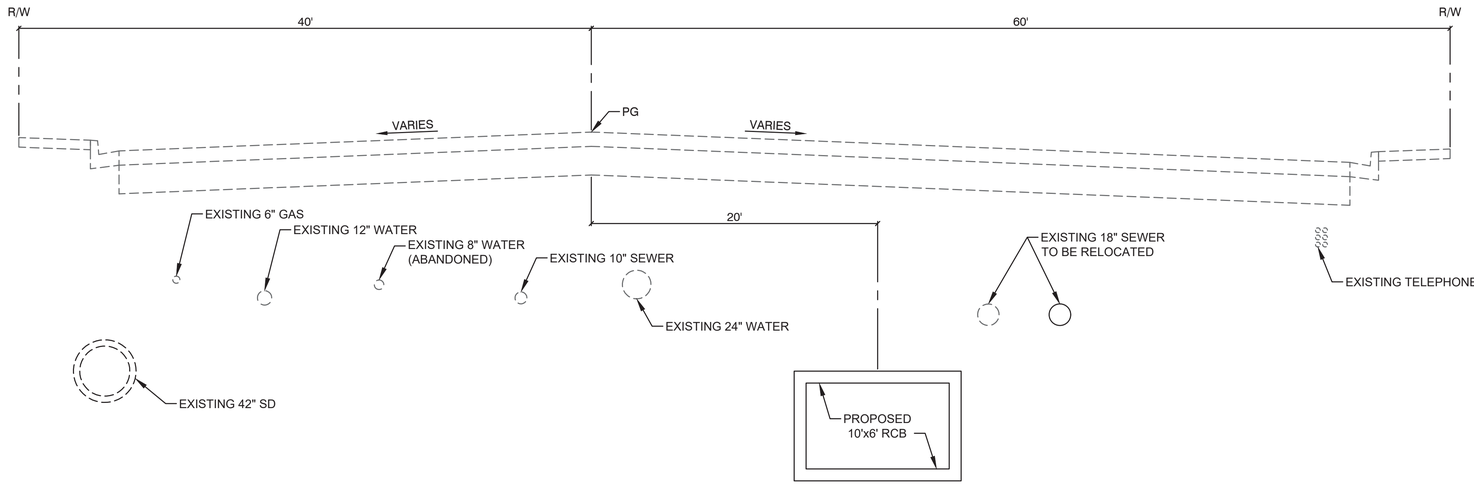
708736-TY.dwg



CHARLESTON BOULEVARD

NTS

COMMERCE STREET TO CASINO CENTER BOULEVARD



CHARLESTON BOULEVARD

NTS

CASINO CENTER BOULEVARD TO 4th STREET

GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)

CALL BEFORE CONSTRUCTION		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -

DATE: March 19, 2019 DESIGNED BY:

SUBMITTAL STAGE: DRAWN BY:
30% SUBMITTAL CHECKED BY:

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

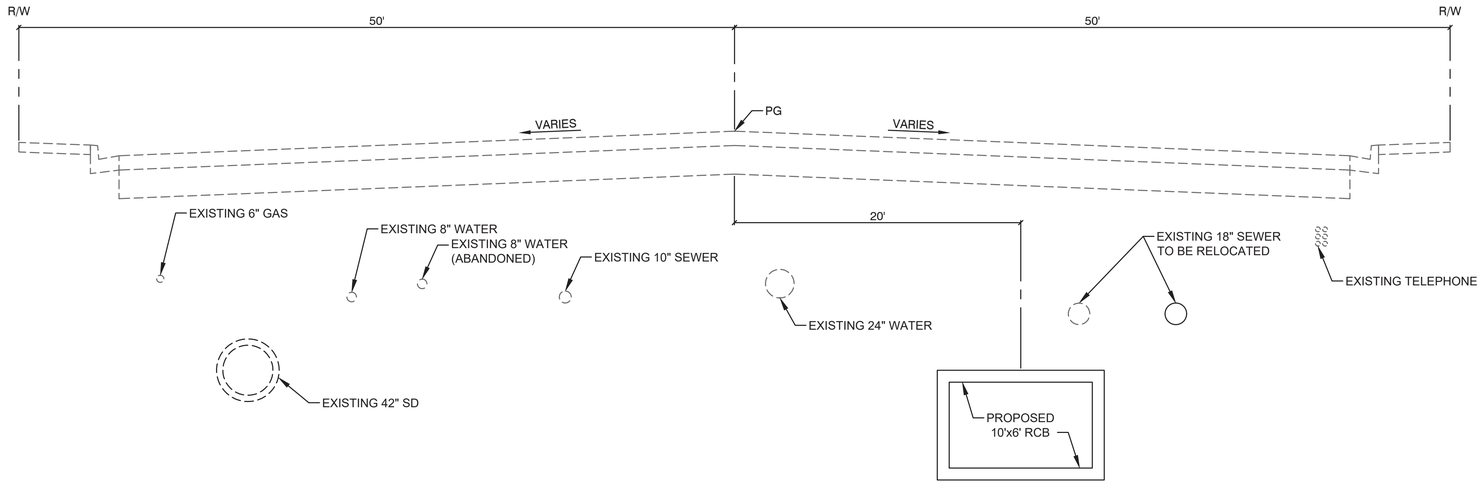
SHEET
TYPICAL SECTIONS

30% SUBMITTAL
NOT FOR
CONSTRUCTION

SHEET
TY2
OF

DRAWING NO.
107v7368

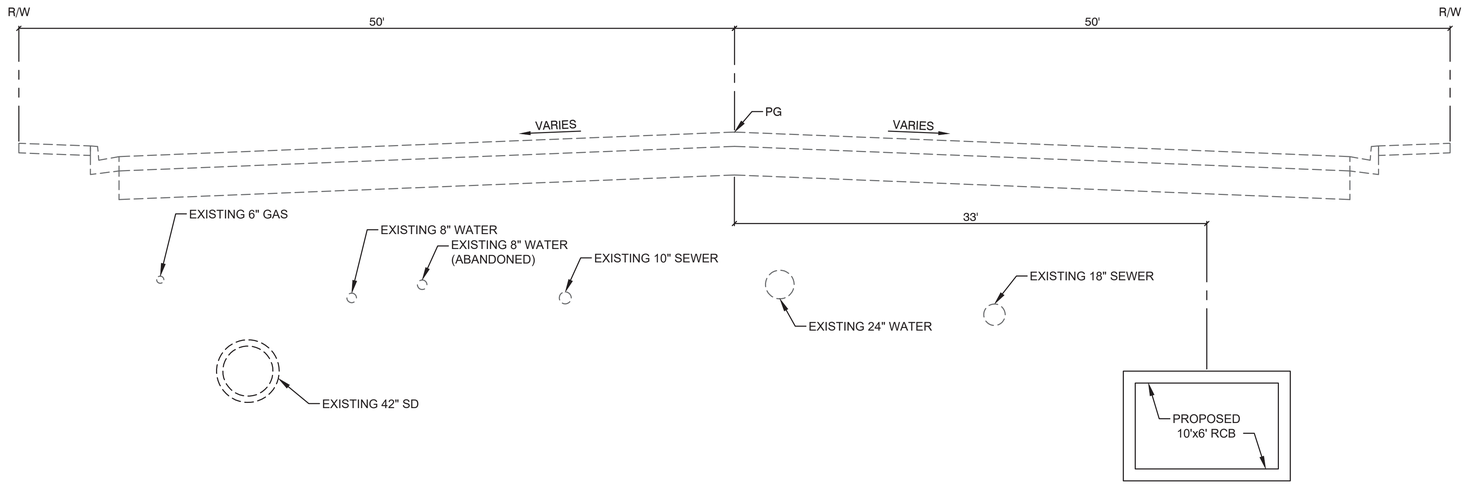
708736 TY.dwg



CHARLESTON BOULEVARD

NTS

4th STREET TO LAS VEGAS BOULEVARD



CHARLESTON BOULEVARD

NTS

LAS VEGAS BOULEVARD TO 7th STREET

GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -

DATE: March 19, 2019 DESIGNED BY:

SUBMITTAL STAGE: DRAWN BY:

30% SUBMITTAL CHECKED BY:

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

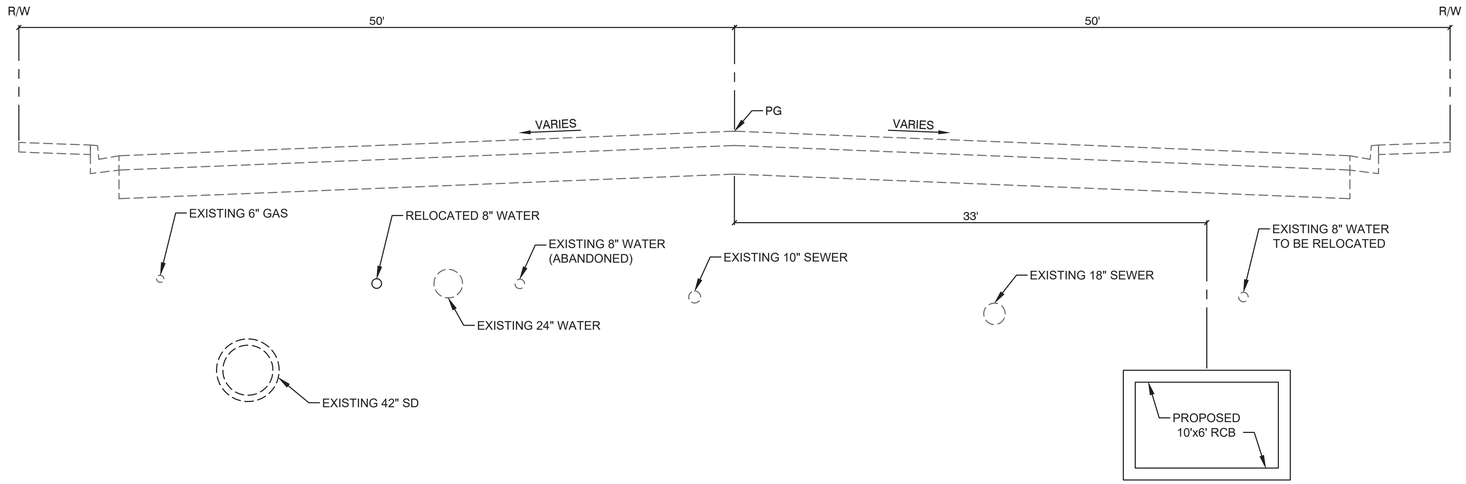
SHEET
TYPICAL SECTIONS

30% SUBMITTAL
NOT FOR
CONSTRUCTION

SHEET
TY3
OF

DRAWING NO.
107v7368

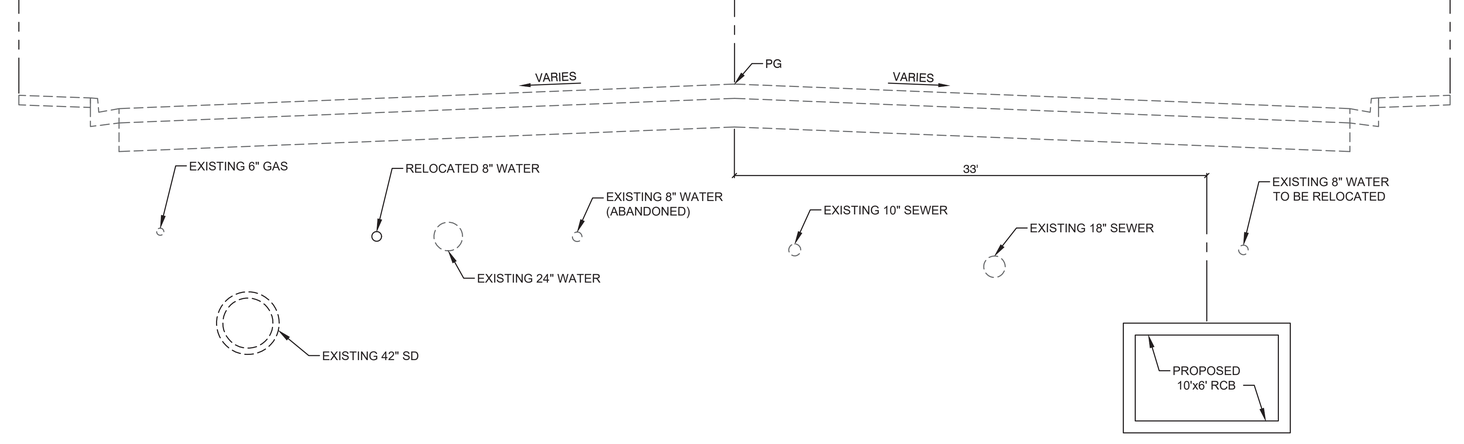
708736 TY.dwg



CHARLESTON BOULEVARD

NTS

7th STREET TO GASS AVENUE



CHARLESTON BOULEVARD

NTS

GASS AVENUE TO MARYLAND PARKWAY

GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -

DATE: March 19, 2019 DESIGNED BY:

SUBMITTAL STAGE: DRAWN BY:
30% SUBMITTAL

CHECKED BY:

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

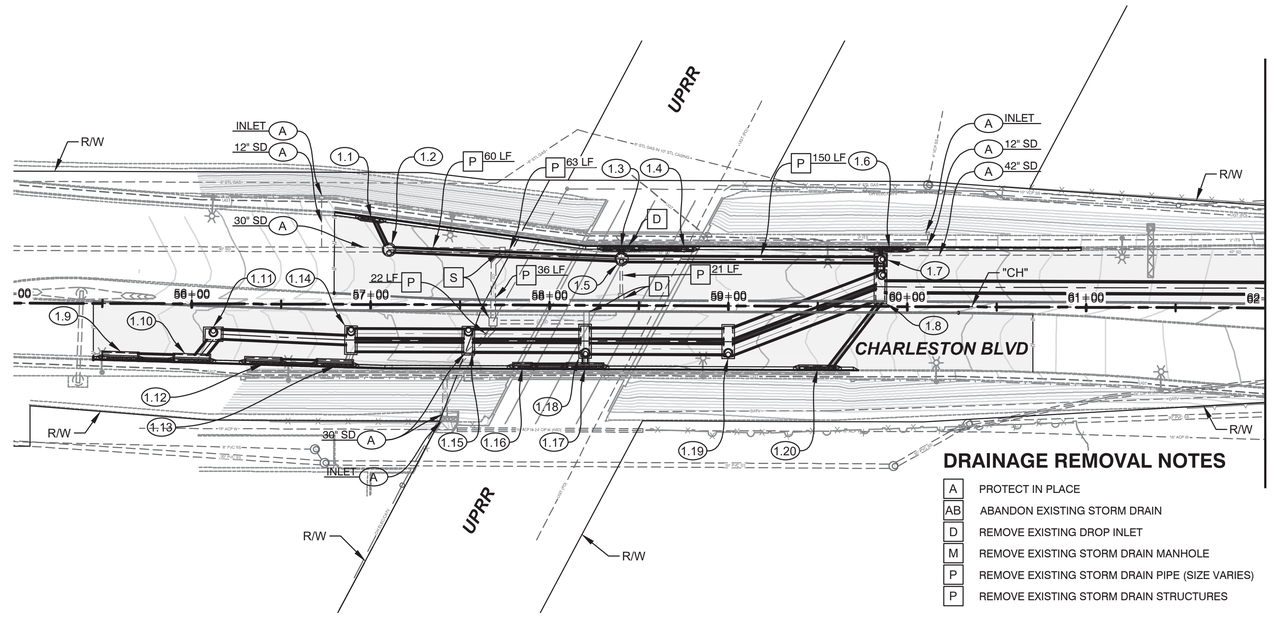
SHEET
TYPICAL SECTIONS

30% SUBMITTAL
NOT FOR
CONSTRUCTION

SHEET
TY4
OF

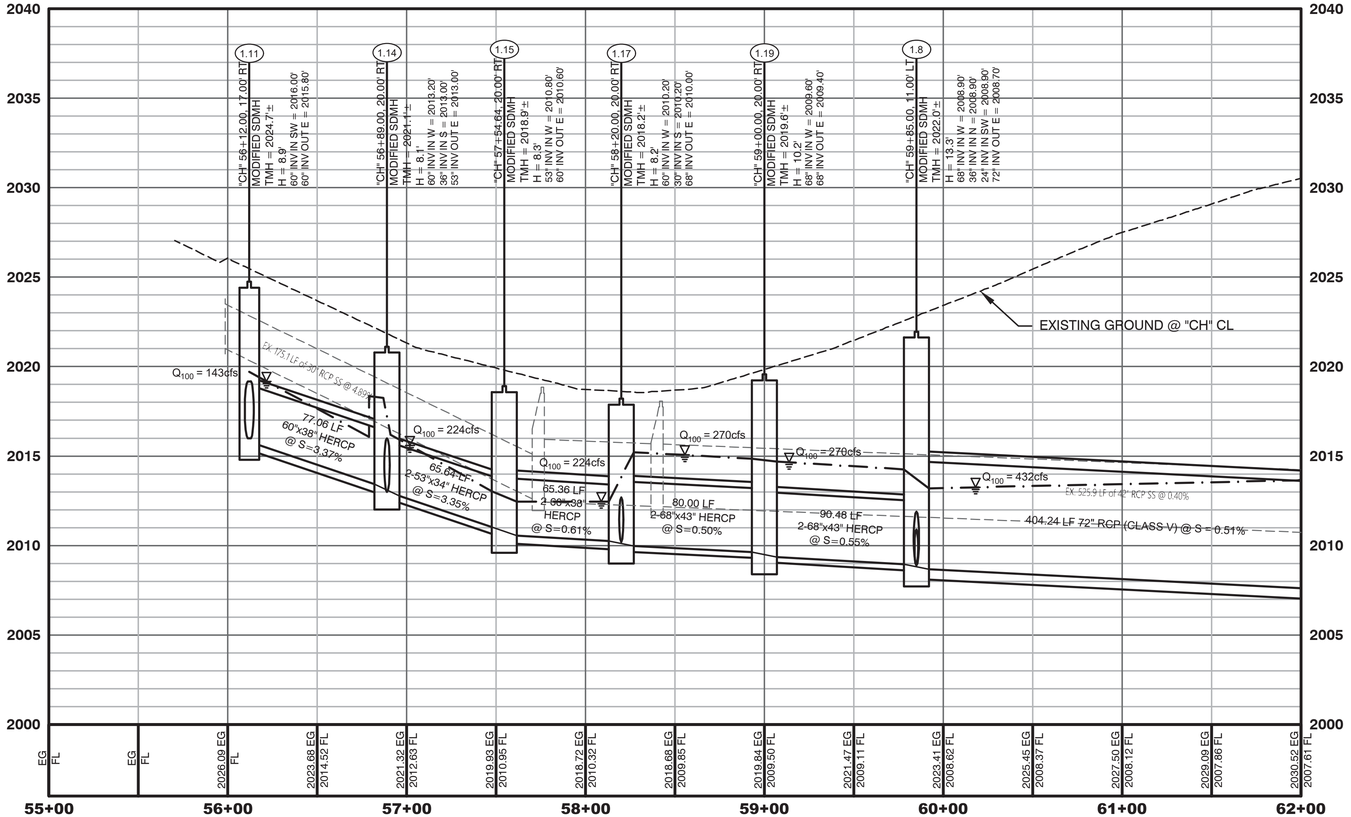
DRAWING NO.
107v7368

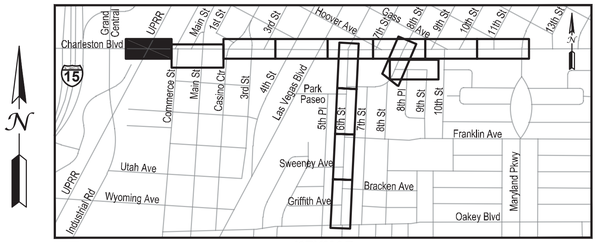
708736 TY.dwg



DRAINAGE REMOVAL NOTES

A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(1.1) "CH" 57+00.00, 49.20' LT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 17.89 L.F. 18" RCP

(1.2) "CH" 57+10.00, 30.63' LT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1 - INSTALL 130.09 L.F. 30" RCP

(1.3) "CH" 58+40.00, 33.50' LT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 4.92 L.F. 24" RCP

(1.4) "CH" 58+75.00, 33.50' LT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 20.50 L.F. 18" RCP

(1.5) "CH" 58+40.00, 26.00' LT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1 - INSTALL 145.00 L.F. 45"x29" HERCP

(1.6) "CH" 59+90.00, 33.50' LT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 1.98 L.F. 18" RCP

(1.7) "CH" 58+85.00, 26.00' LT
CONSTRUCT TYPE 4 MANHOLE PER NDOT STD. DWG. No. R-4.3.2 - INSTALL 4.31 L.F. 36" RCP

(1.8) "CH" 59+85.00, 11.00' LT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX - INSTALL 404.24 L.F. 72" RCP (CLASS V)

(1.9) "CH" 55+60.00, 32.02' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 20.51 L.F. 30" RCP

(1.10) "CH" 55+00.00, 33.10' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 11.15 L.F. 60"x38" HERCP

(1.11) "CH" 56+12.00, 17.00' RT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX - INSTALL 77.06 L.F. 60"x38" HERCP

(1.12) "CH" 56+40.00, 34.17' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 20.51 L.F. 30" RCP

(1.13) "CH" 56+80.00, 35.25' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 4.78 L.F. 36" RCP

(1.14) "CH" 56+89.00, 20.00' RT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX - INSTALL 79.54 L.F. 2-53"x34" HERCP'S

(1.15) "CH" 57+68.54, 20.00' RT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX - INSTALL 51.46 L.F. 2-60"x38" HERCP'S
CONNECT TO EXISTING 30" STORM DRAIN

(1.16) "CH" 57+85.00, 36.00' RT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 20.51 L.F. 24" RCP

(1.17) "CH" 58+20.00, 36.00' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 4.21 L.F. 30" RCP

(1.18) "CH" 58+20.00, 20.00' RT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX - INSTALL 80.00 L.F. 2-68"x43" HERCP'S

(1.19) "CH" 59+00.00, 20.00' RT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX - INSTALL 90.48 L.F. 2-68"x43" HERCP'S

(1.20) "CH" 59+50.00, 36.00' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 45.57 L.F. 24" RCP

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-132-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE:
30% SUBMITTAL

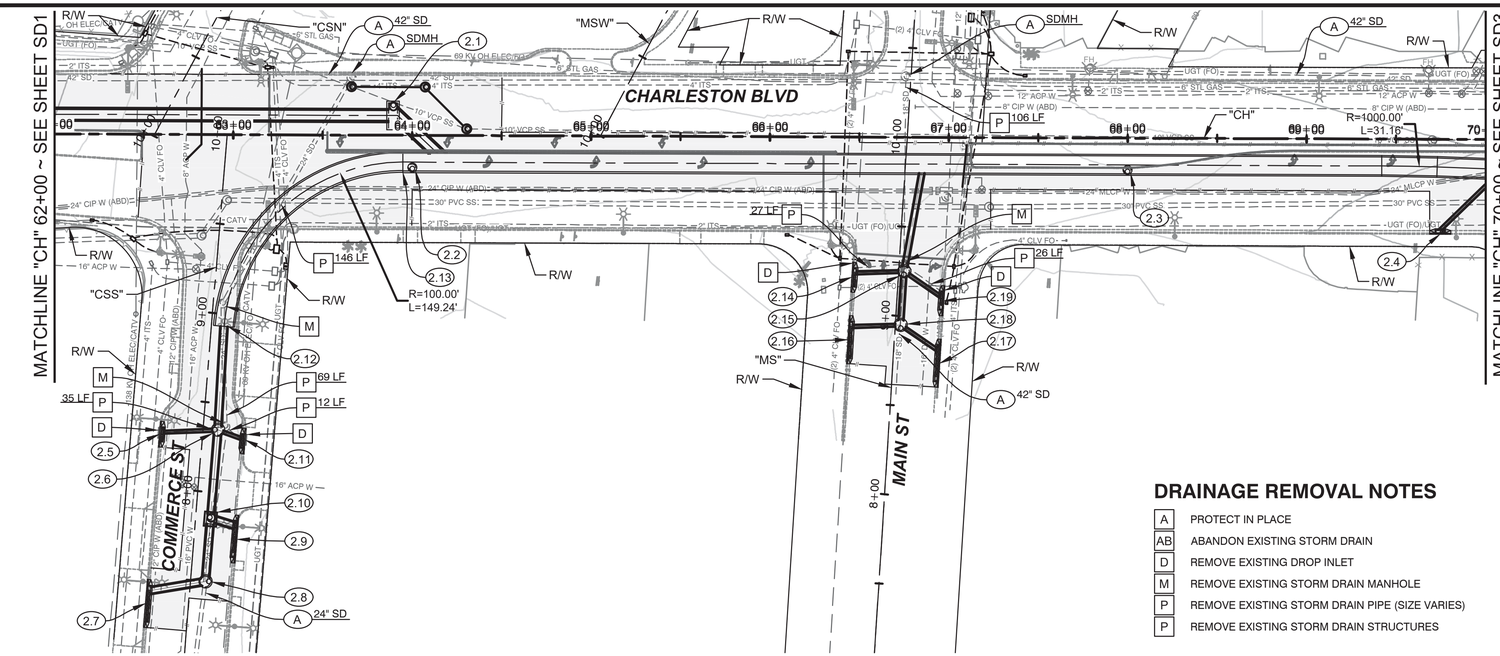
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

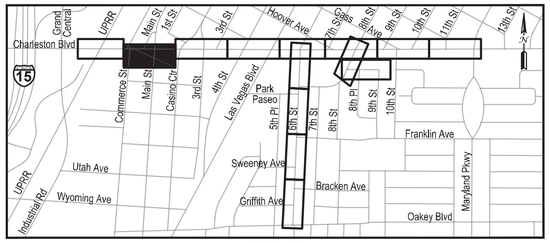
SHEET
STORM DRAIN PLAN & PROFILE
"CH" 55+00 TO "CH" 62+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD1
OF
DRAWING NO.
107v7368

7087/06-SD.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(2.1) "CH" 63+89.24, 11.00' LT
CONSTRUCT MODIFIED MANHOLE PER DETAILS ON SHEET D-XX
INSTALL 30.78 L.F. 72" RCP (CLASS V)

(2.2) "CH" 64+00.00, 18.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(2.3) "CH" 68+00.00, 18.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(2.4) "CH" 69+75.00, 53.00' RT
CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 41.87 L.F. 18" RCP & CONNECT TO RCB

(2.5) "CCS" 8+30.00, 24.00' LT
CONSTRUCT 7.5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 30.25 L.F. 18" RCP

(2.6) "CCS" 8+35.00, 8.35' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 58.06 L.F. 42" RCP & CONNECT TO RCB

(2.7) "CCS" 7+35.00, 24.00' LT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 30.94 L.F. 42" RCP & CONNECT TO EXISTING 18" STORM DRAIN

(2.8) "CCS" 7+50.00, 8.35' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1 - INSTALL 85.00 L.F. 42" RCP

(2.9) "CCS" 7+75.00, 24.00' RT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 11.38 L.F. 42" RCP

(2.10) "CCS" 7+85.00, 8.35' RT
CONSTRUCT TYPE 4 MANHOLE PER NDOT STD. DWG. No. R-4.3.2 - INSTALL 49.67 L.F. 42" RCP

(2.11) "CCS" 8+30.00, 24.00' RT
CONSTRUCT 7.5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 13.84 L.F. 42" RCP

(2.12) "CCS" 8+93.05, 7.00' RT
BEGIN 10'x6' RCB - INSTALL PRECAST RCB PLUG - INSTALL 149.24 L.F. 10'x6' RCB

(2.13) "CH" 63+94.84, 15.00' RT TO "CH" 70+00.00, 16.32' RT
INSTALL 605.15 L.F. 10'x6' RCB

(2.14) "MS" 9+20.00, 25.93' LT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 26.72 L.F. 18" RCP

(2.15) "MS" 9+25.00, 3.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 55.90 L.F. 30" RCP & CONNECT TO RCB

(2.16) "MS" 8+85.00, 25.93' LT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 26.77 L.F. 18" RCP

(2.17) "MS" 8+75.00, 26.12' LT
CONSTRUCT 20' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 24.27 L.F. 18" RCP

(2.18) "MS" 8+95.00, 3.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 30.00 L.F. 30" RCP & CONNECT TO EXISTING 18" STORM DRAIN

(2.19) "MS" 9+10.00, 26.25' RT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422 - INSTALL 24.38 L.F. 18" RCP

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-132-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE:
30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND

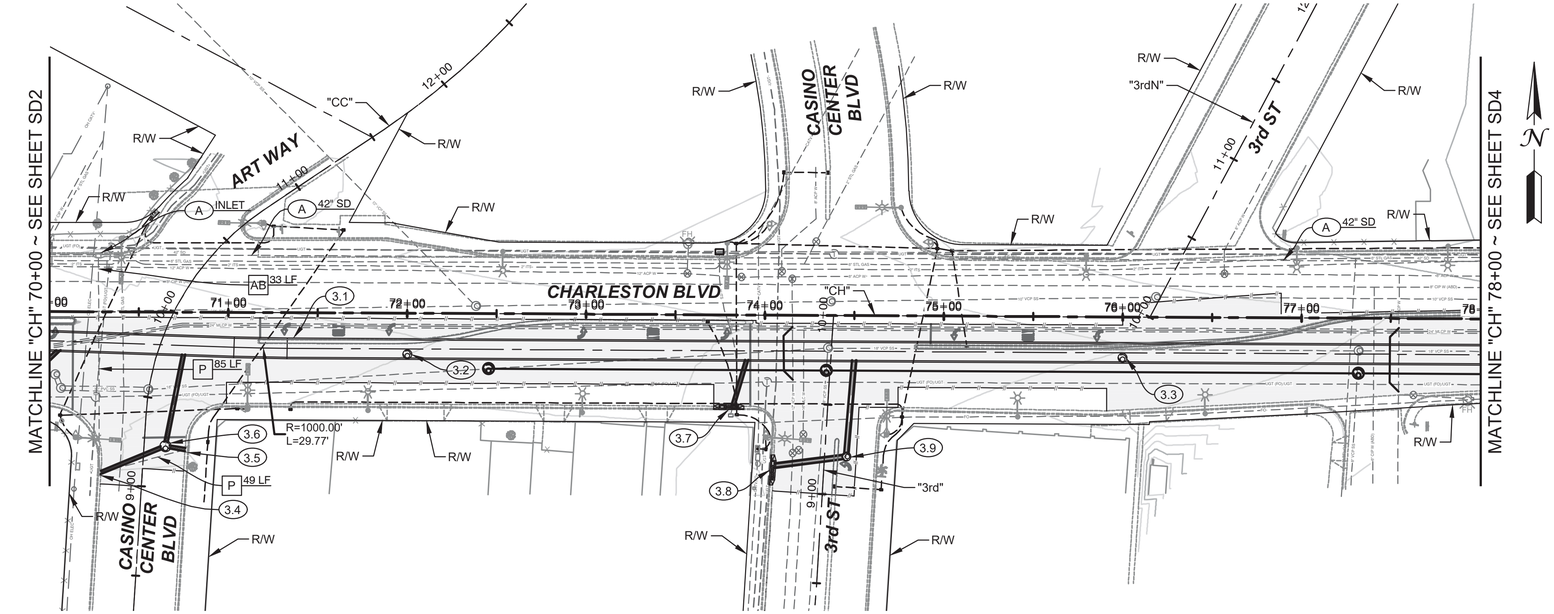
SHEET
STORM DRAIN PLAN & PROFILE "CH" 62+00 TO "CH" 70+00

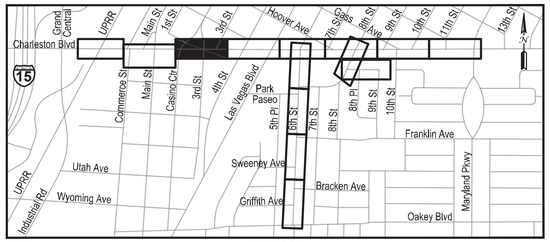
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD2
OF

DRAWING NO.
107v7368

7087368-SD.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(3.1) "CH" 70+00.00, 16.32' RT TO "CH" 78+00.00, 20.00' RT
INSTALL 800.00 L.F. 10'x6' RCB

(3.2) "CH" 72+00.00, 23.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(3.3) "CH" 76+00.00, 23.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(3.4) "CC" 9+06.6±, 24.4'± LT
CONNECT TO EXISTING INLET (PROTECT IN PLACE)
INSTALL 38.91 L.F. 18" RCP

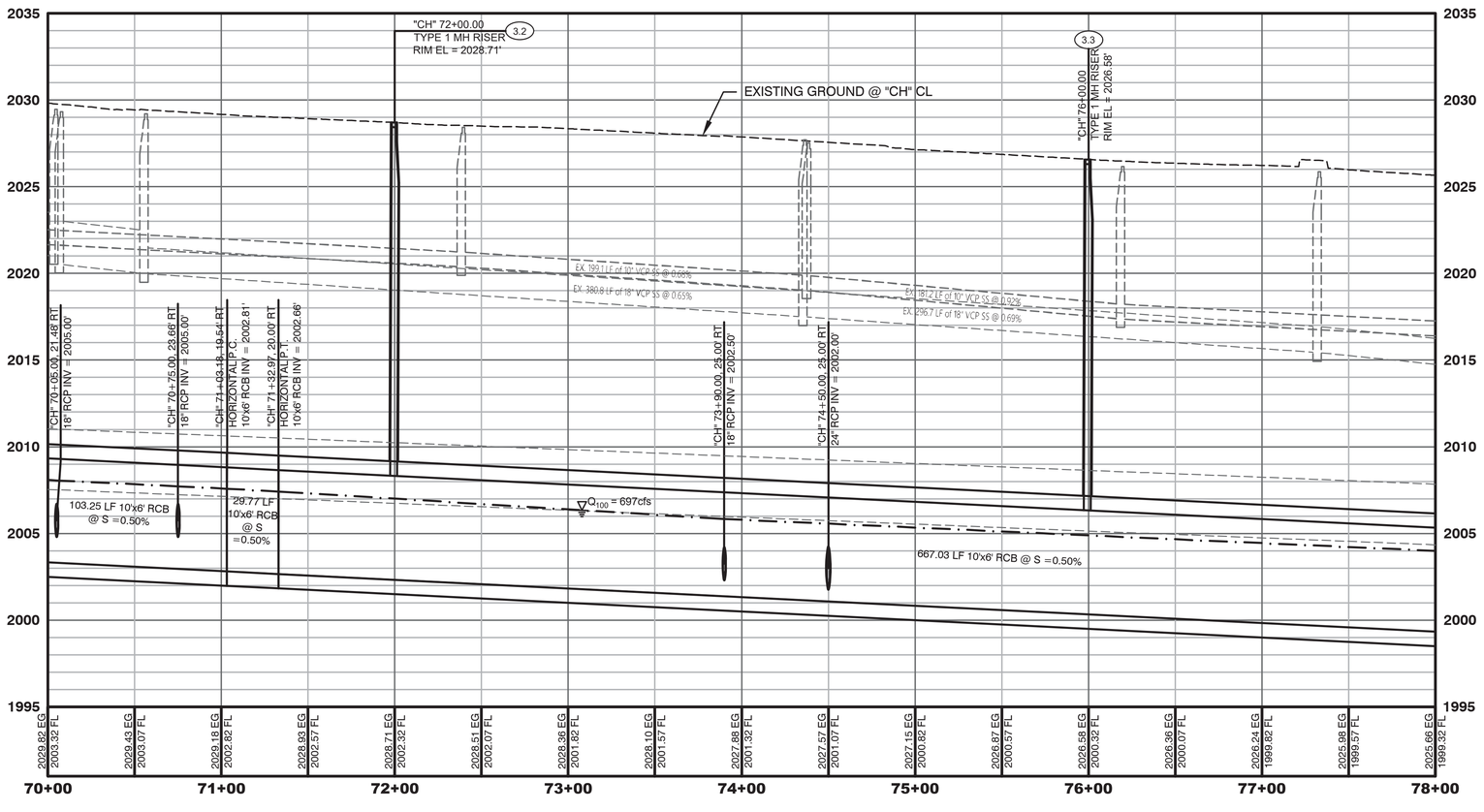
(3.5) "CC" 9+22.1±, 24.6'± RT
CONNECT TO EXISTING INLET (PROTECT IN PLACE)
INSTALL 11.28 L.F. 18" RCP

(3.6) "CC" 9+23.26, 11.91' RT
CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
INSTALL 52.30 L.F. 18" RCP & CONNECT TO RCB

(3.7) "CH" 73+80.00, 52.87' RT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 26.61 L.F. 18" RCP & CONNECT TO RCB

(3.8) "3rd" 9+11.62, 29.98' LT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 40.34 L.F. 24" RCP

(3.9) "3rd" 9+21.62, 12.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
INSTALL 54.11 L.F. 24" RCP & CONNECT TO RCB



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

PREPARED FOR
CITY OF LAS VEGAS
BID# .
H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE:
30% SUBMITTAL

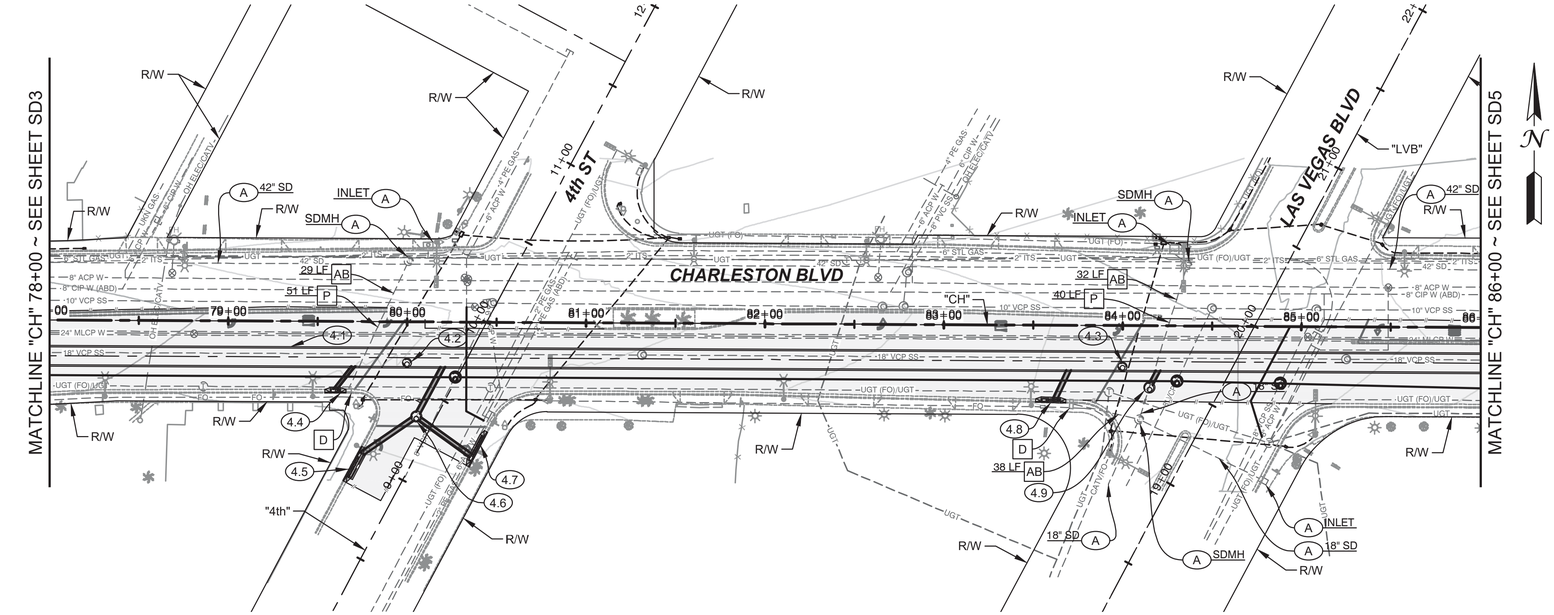
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

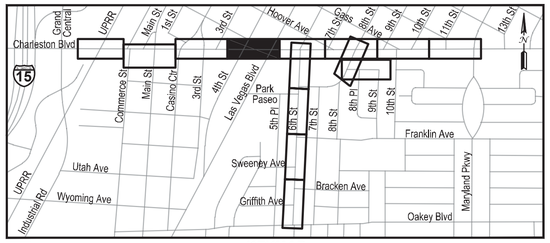
SHEET
STORM DRAIN PLAN & PROFILE
"CH" 70+00 TO "CH" 78+00

30% SUBMITTAL
NOT FOR
CONSTRUCTION

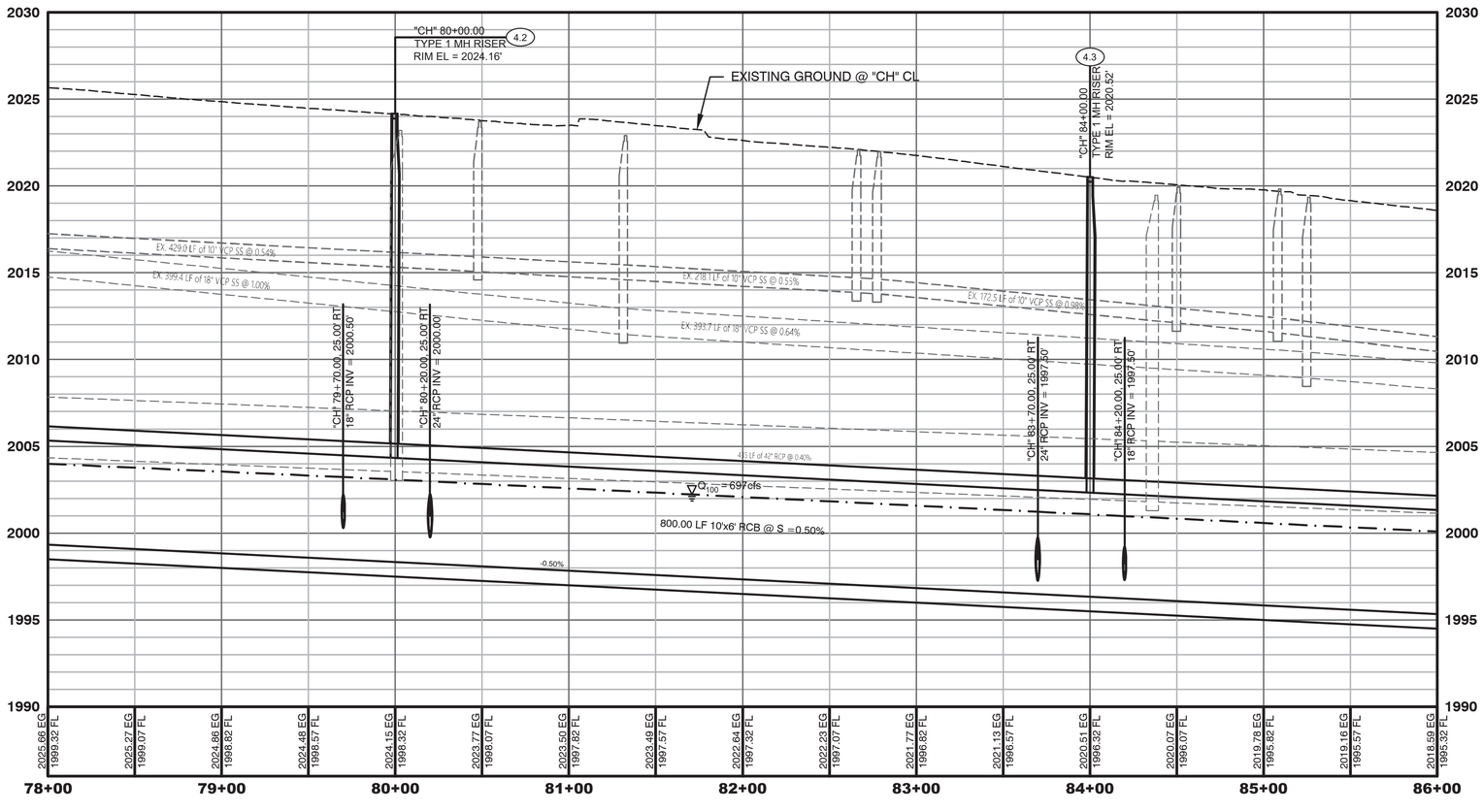
SHEET
SD3
OF
DRAWING NO.
107v7368

708798-SD.dwg





KEYMAP



LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

- A — PROTECT IN PLACE
- AB — ABANDON EXISTING STORM DRAIN
- D — REMOVE EXISTING DROP INLET
- M — REMOVE EXISTING STORM DRAIN MANHOLE
- P — REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
- P — REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

- (A) PROTECT IN PLACE
- (4.1) "CH" 78+00.00, 20.00' RT TO "CH" 86+00.00, 20.00' RT
  INSTALL 800.00 L.F. 10'x6' RCB
- (4.2) "CH" 80+00.00, 23.00' RT
  CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB
- (4.3) "CH" 84+00.00, 23.00' RT
  CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB
- (4.4) "CH" 79+60.00, 40.1' RT
  CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
  INSTALL 16.20 L.F. 24" RCP & CONNECT TO RCB
- (4.5) "4th" 8+95.00, 29.27' LT
  CONSTRUCT 15' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
  INSTALL 30.95 L.F. 24" RCP
- (4.6) "4th" 9+35.00, 10.00' LT
  CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
  INSTALL 31.52 L.F. 24" RCP & CONNECT TO RCB
- (4.7) "4th" 9+35.00, 29.41' RT
  CONSTRUCT 15' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
  INSTALL 37.43 L.F. 24" RCP
- (4.8) "CH" 83+60.00, 43.30' RT
  CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
  INSTALL 17.66 L.F. 24" RCP & CONNECT TO RCB
- (4.9) "CH" 84+15.00, 34.50' RT
  CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
  INSTALL 10.77 L.F. 18" RCP & CONNECT TO RCB
  CONNECT TO EXISTING STORM DRAIN

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 | BID# .
DATE: April 2, 2019 | DESIGNED BY: B. MAHAN
SUBMITTAL STAGE: 30% SUBMITTAL | DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

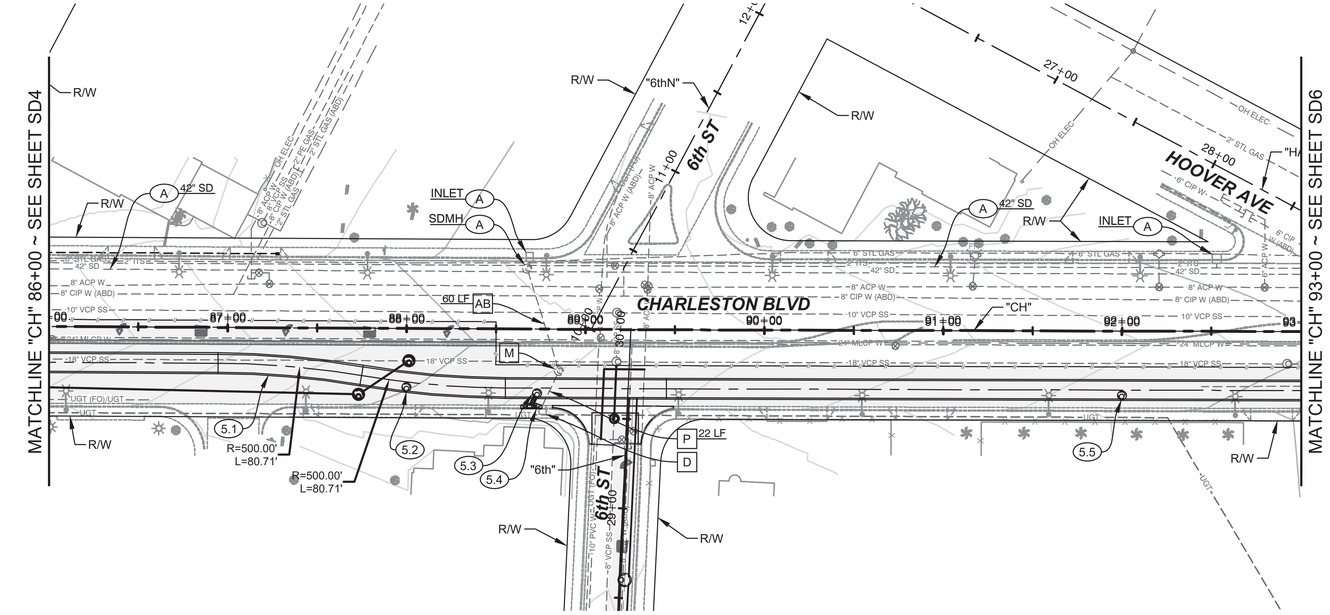
SHEET
STORM DRAIN PLAN & PROFILE
"CH" 78+00 TO "CH" 86+00

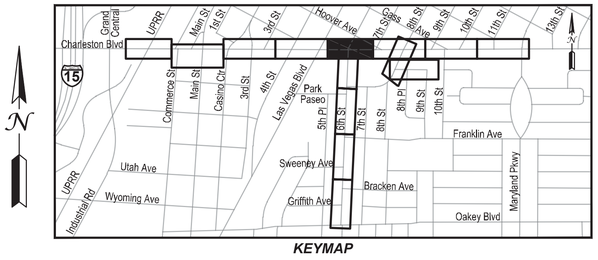
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD4
OF

DRAWING NO.
107v7368

708796-SD.dwg





KEYMAP

LEGEND

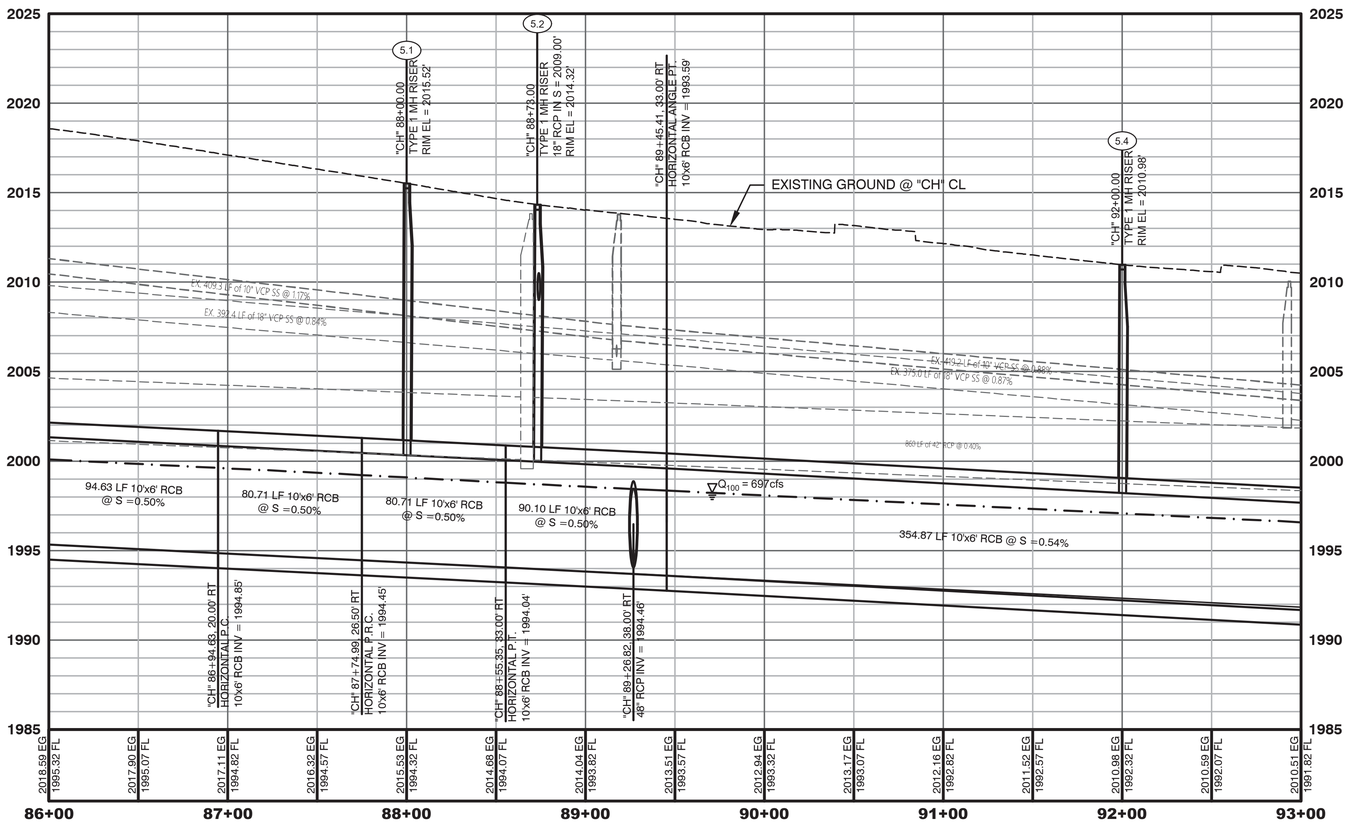
AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

- (A) PROTECT IN PLACE
- (AB) ABANDON EXISTING STORM DRAIN
- (D) REMOVE EXISTING DROP INLET
- (M) REMOVE EXISTING STORM DRAIN MANHOLE
- (P) REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
- (P) REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

- (A) PROTECT IN PLACE
- (5.1) "CH" 86+00.00, 20.00' RT TO "CH" 93+00.00, 33.00' RT
  INSTALL 700.00 L.F. 10'x6' RCB
- (5.2) "CH" 88+00.00, 23.00' RT
  CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB
- (5.3) "CH" 88+73.00, 36.00' RT
  CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB
- (5.4) "CH" 88+70.00, 44.60' RT
  CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
  INSTALL 4.97 L.F. 18" RCP & CONNECT TO MANHOLE RISER
- (5.5) "CH" 92+00.00, 36.00' RT
  CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# .
H# 72212
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
DATE: April 2, 2019
SUBMITTAL STAGE: **30% SUBMITTAL**

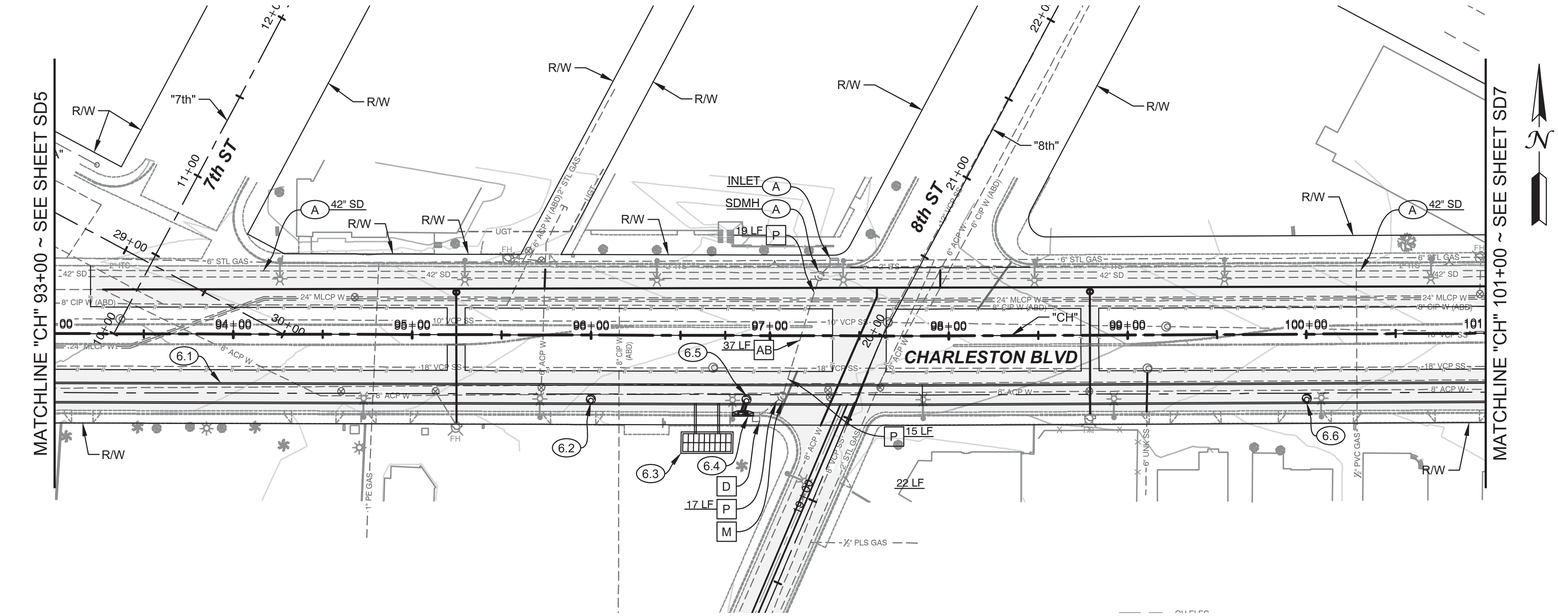
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

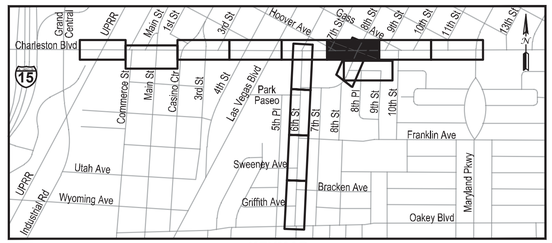
SHEET
STORM DRAIN PLAN & PROFILE
"CH" 86+00 TO "CH" 93+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD5
OF
DRAWING NO.
107v7368

109706-SD.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(6.1) "CH" 93+00.00, 33.00' RT TO "CH" 101+00.00, 33.00' RT
INSTALL 800.00 L.F. 10'x6' RCB

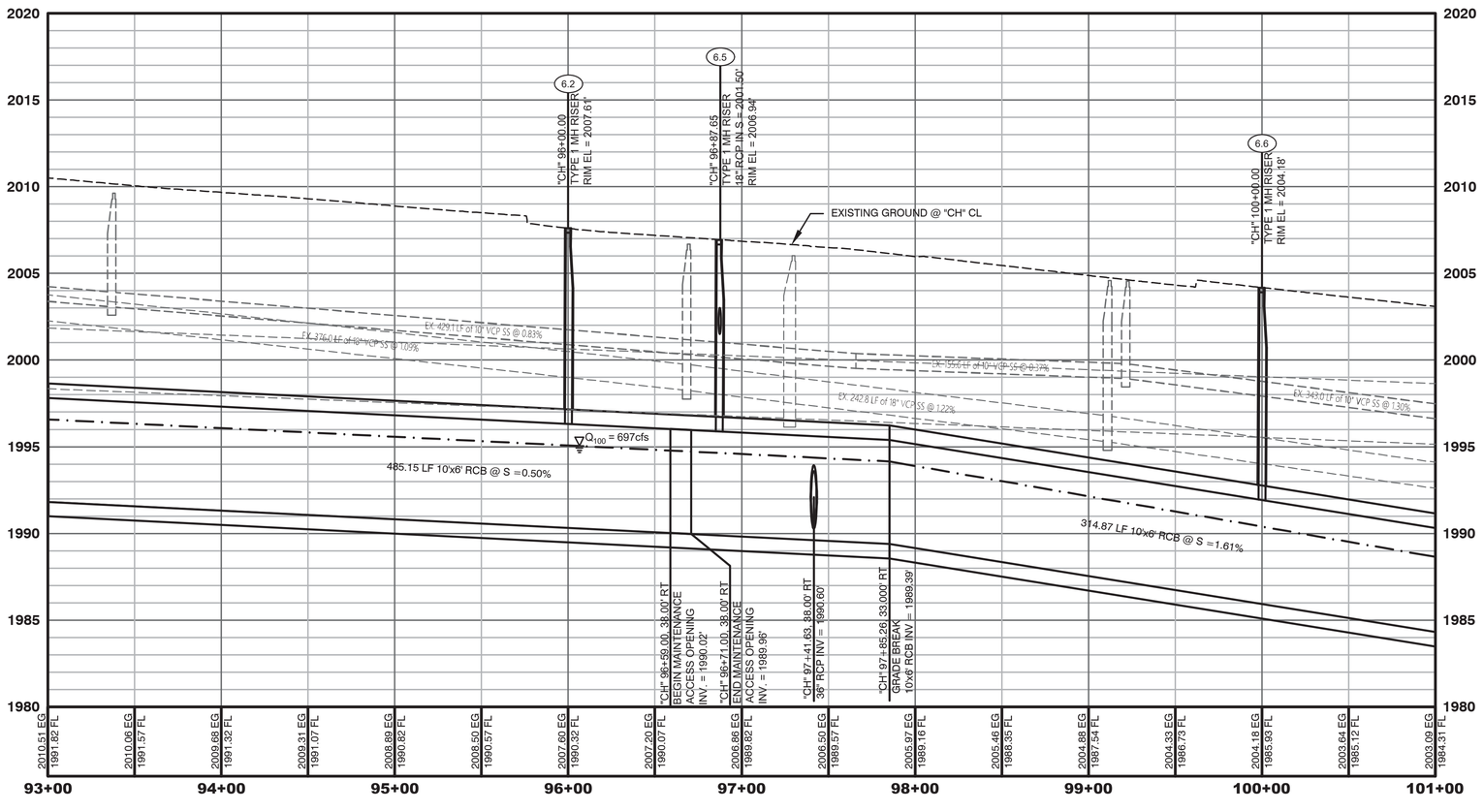
(6.2) "CH" 96+00.00, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(6.3) "CH" 88+73.00, 36.00' RT
CONSTRUCT MAINTENANCE ACCESS OPENING
INSTALL 17.00 L.F. 12'x6' RCB & CONNECT TO RCB

(6.4) "CH" 96+85.00, 45.10' RT
CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 5.02 L.F. 18" RCP & CONNECT TO MANHOLE RISER

(6.5) "CH" 96+87.65, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(6.6) "CH" 100+00.00, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-132-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: 30% SUBMITTAL

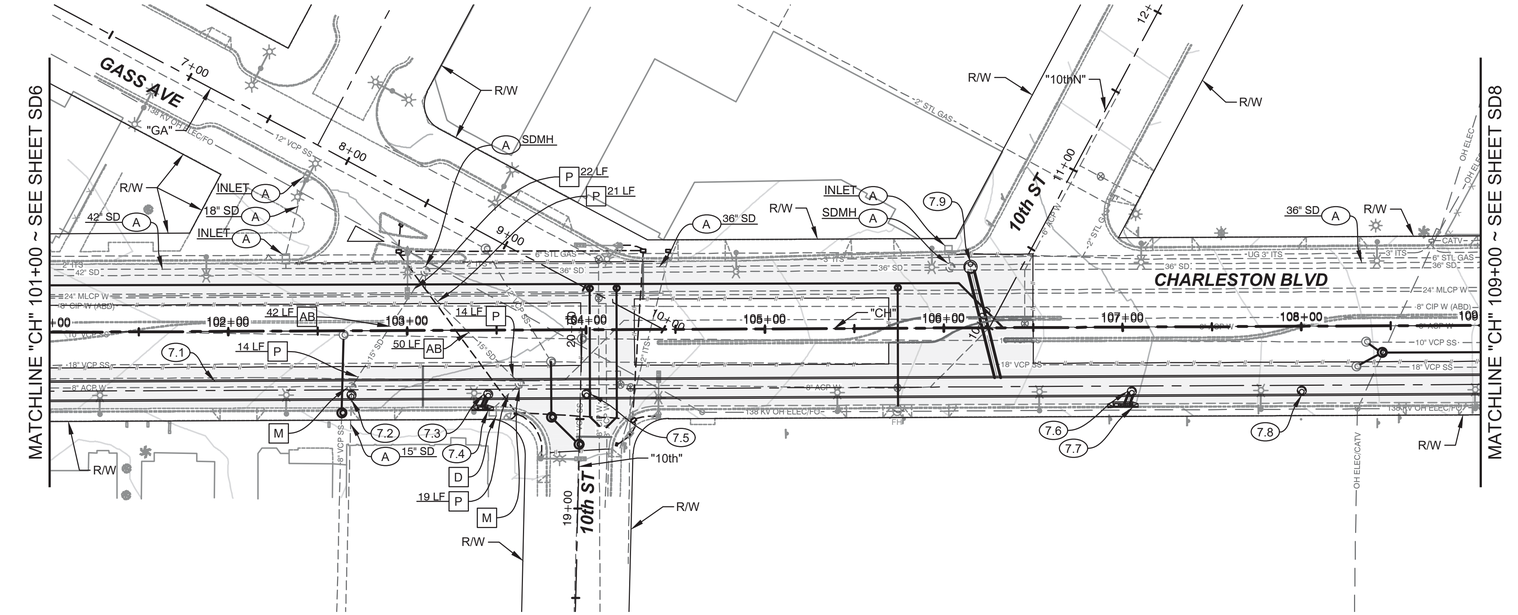
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

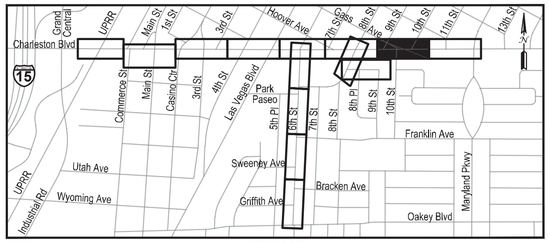
SHEET
STORM DRAIN PLAN & PROFILE
"CH" 93+00 TO "CH" 101+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD6
OF
DRAWING NO.
107v7368

708798-SD.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

- A — PROTECT IN PLACE
- AB — ABANDON EXISTING STORM DRAIN
- D — REMOVE EXISTING DROP INLET
- M — REMOVE EXISTING STORM DRAIN MANHOLE
- P — REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
- P — REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(7.1) "CH" 101+00.00, 33.00' RT TO "CH" 109+00.00, 33.00' RT
INSTALL 800.00 L.F. 10'x6' RCB

(7.2) "CH" 102+68.60, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB
CONNECT TO EXISTING 15" STORM DRAIN PIPE

(7.3) "CH" 103+45.00, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(7.4) "CH" 103+42.00, 45.00' RT
CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 5.27 L.F. 18" RCP & CONNECT TO MANHOLE RISER

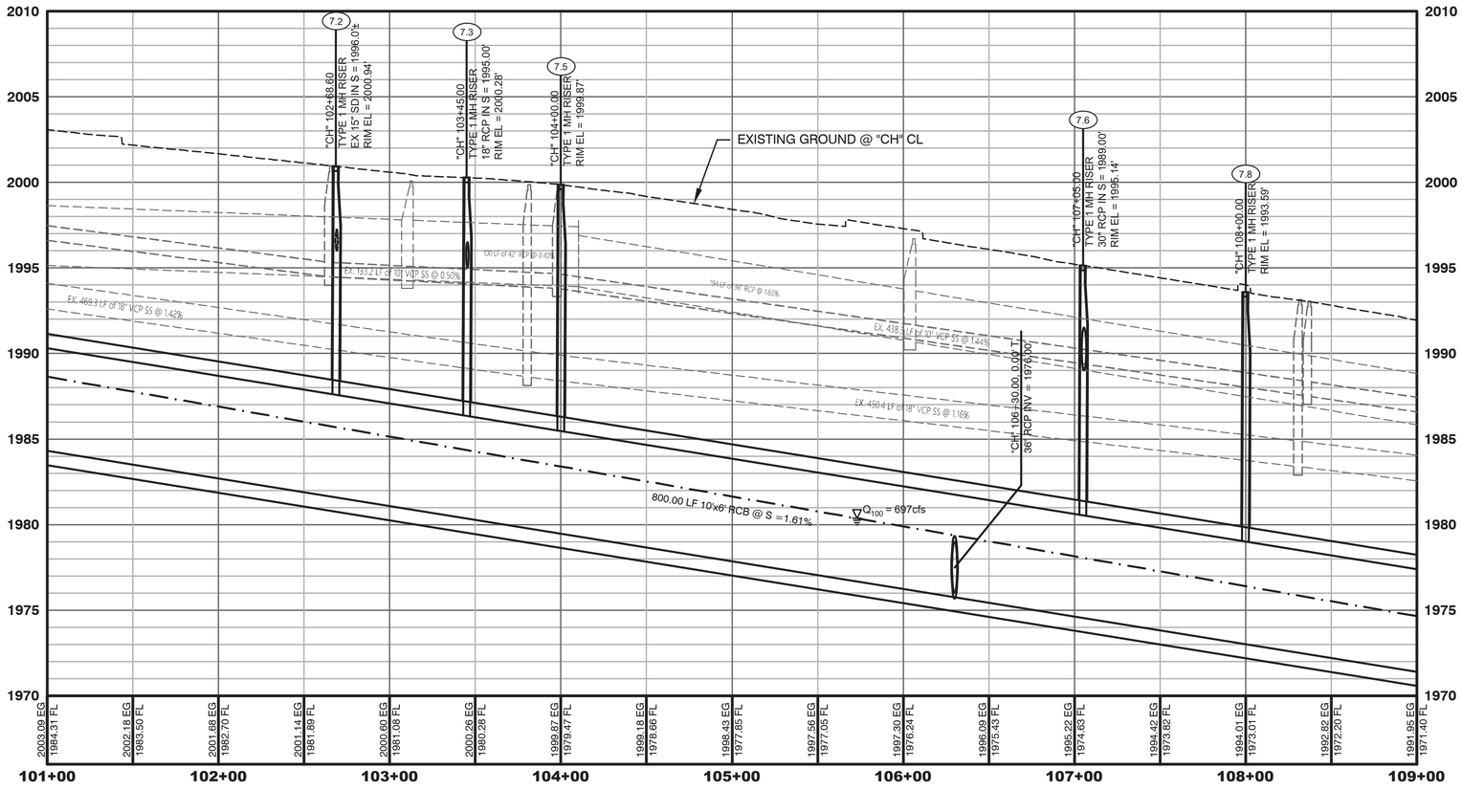
(7.5) "CH" 104+00.00, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(7.6) "CH" 107+05.00, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(7.7) "CH" 107+00.00, 45.00' RT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 5.01 L.F. 30" RCP & CONNECT TO MANHOLE RISER

(7.8) "CH" 108+00.00, 36.00' RT
CONSTRUCT 48" TYPE 1 MANHOLE RISER & CONNECT TO RCB

(7.9) "CH" 106+15.00, 33.90' LT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 63.69 L.F. 36" RCP & CONNECT TO RCB



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

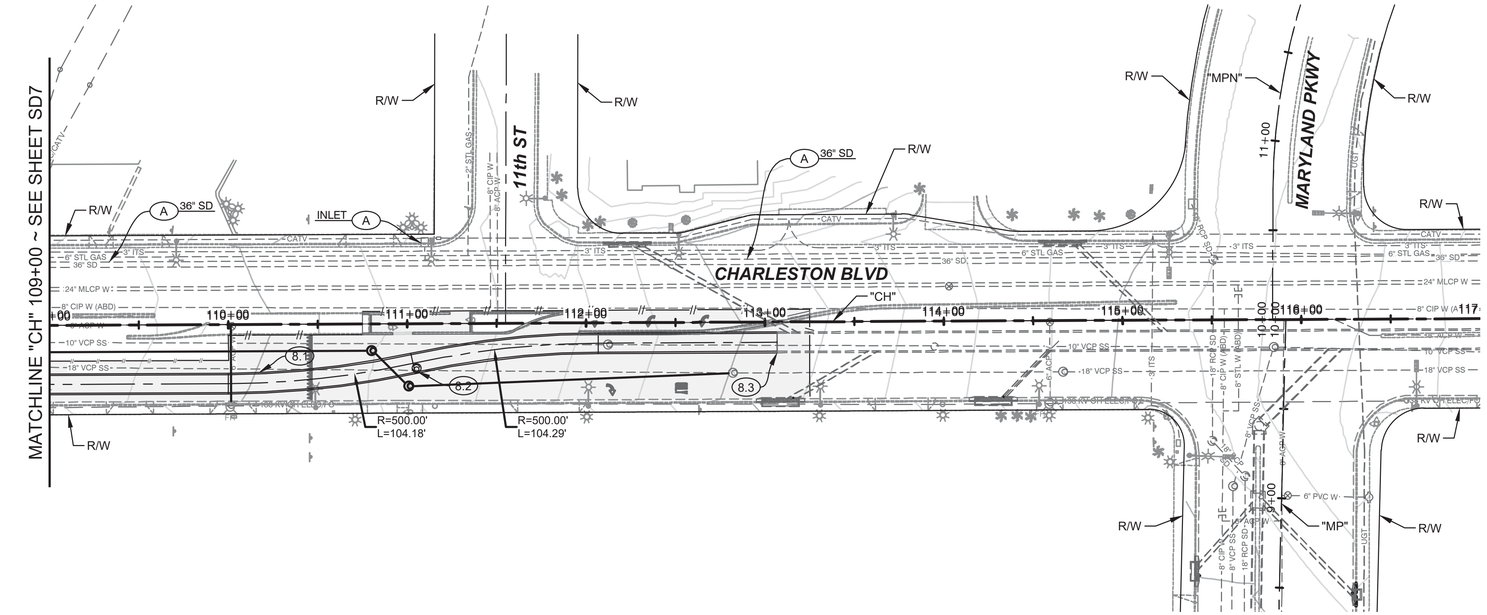
PREPARED FOR
CITY OF LAS VEGAS
H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE: 30% SUBMITTAL
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

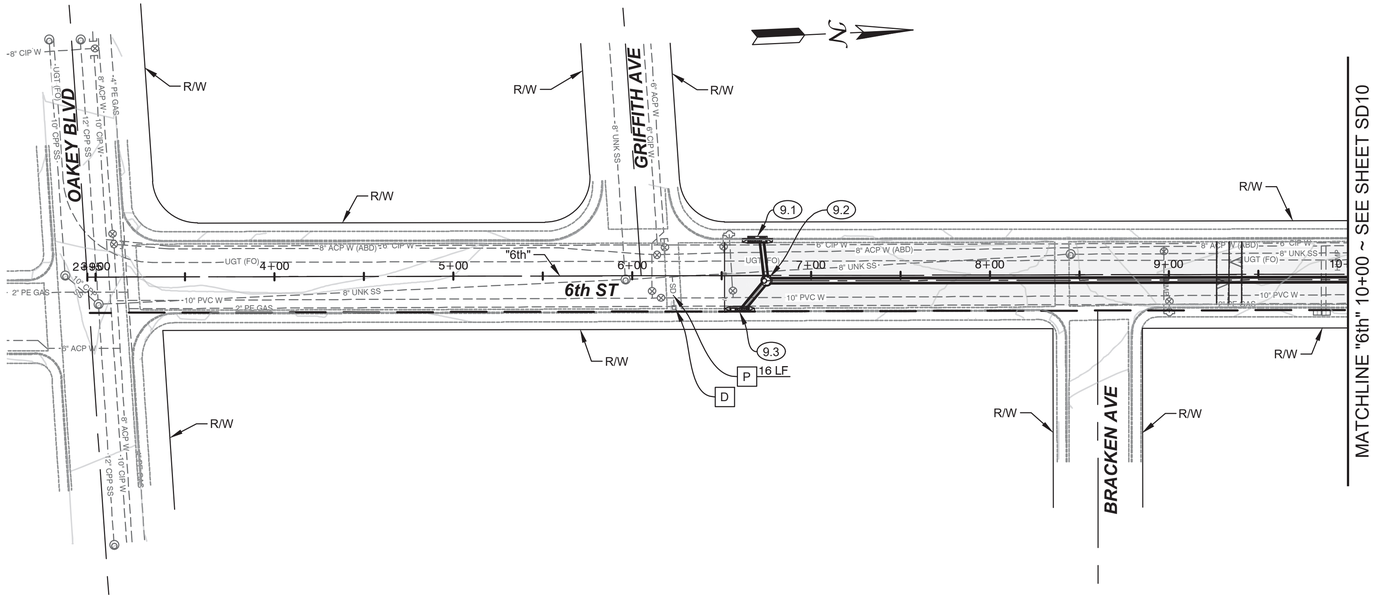
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND
SHEET
STORM DRAIN PLAN & PROFILE
"CH" 101+00 TO "CH" 109+00

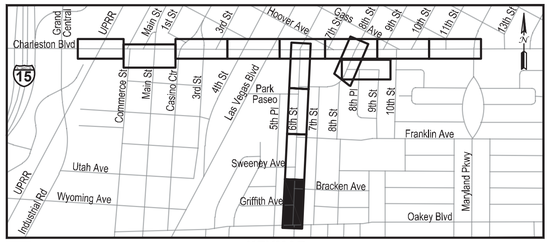
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD7
OF
DRAWING NO.
107v7368

7087(98)-SD.dwg


MATCHLINE "CH" 109+00 ~ SEE SHEET SD7
11th ST
CHARLESTON BLVD
MARYLAND PKWY
"CH"
"MPN"
"MP"
INLET
36" SD
R/W
8" CIP W (ABD)
8" ADP W
24" MLCP W
10" VCP SS
18" VCP SS
6" STL GAS
3" ITS
CATV
8" PVC W
8" CIP W (ABD)
8" CIP W
8" STL W
6" PVC W
8" CIP RCP SD
18" RCP SD
8" VCP SS
18" RCP SD
8" STL W (ABD)
8" STL W (ABD)
8" ADP W
8" CIP W
8" CIP W (ABD)
8" CIP W (ABD)
8" CIP W (ABD)





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES

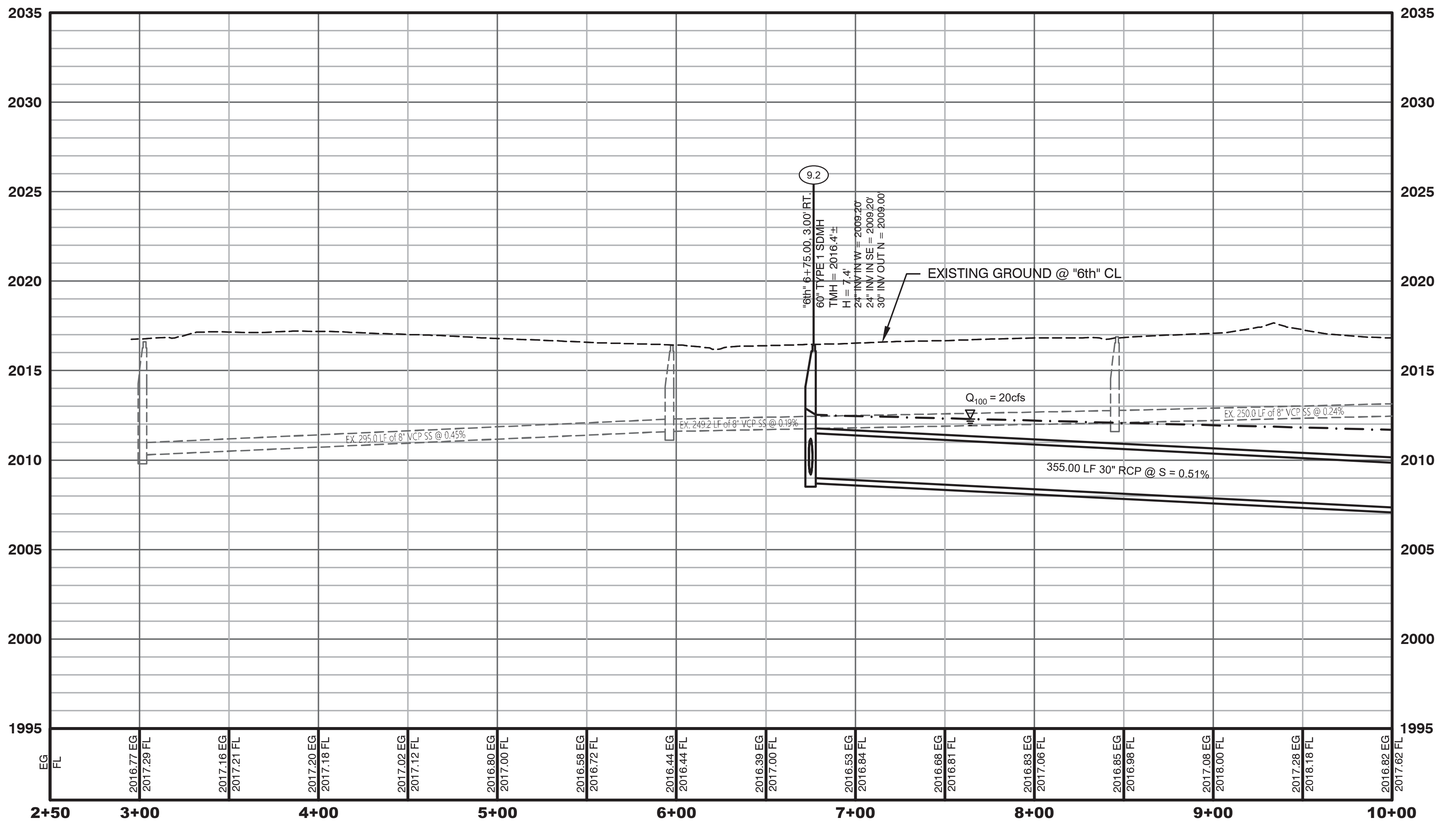
DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(9.1) "6th" 6+70.00, 20.76' LT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 21.90 L.F. 24" RCP

(9.2) "6th" 6+75.00, 3.00' RT
CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
INSTALL 355.00 L.F. 30" RCP

(9.2) "6th" 6+60.00, 20.33' RT
CONSTRUCT 10' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 19.52 L.F. 24" RCP



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
SUBMITTAL STAGE: **30% SUBMITTAL**
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

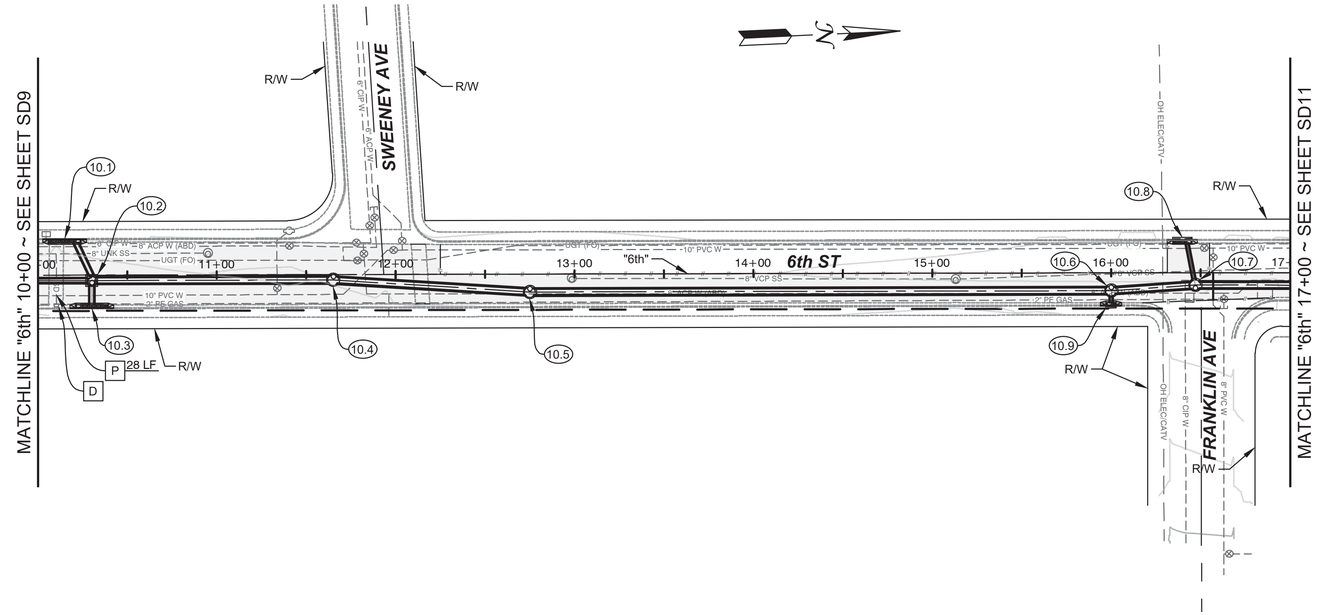
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

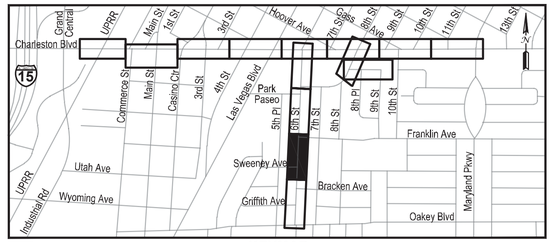
SHEET
STORM DRAIN PLAN & PROFILE
"6th" 2+95 TO "6th" 10+00

30% SUBMITTAL NOT FOR CONSTRUCTION

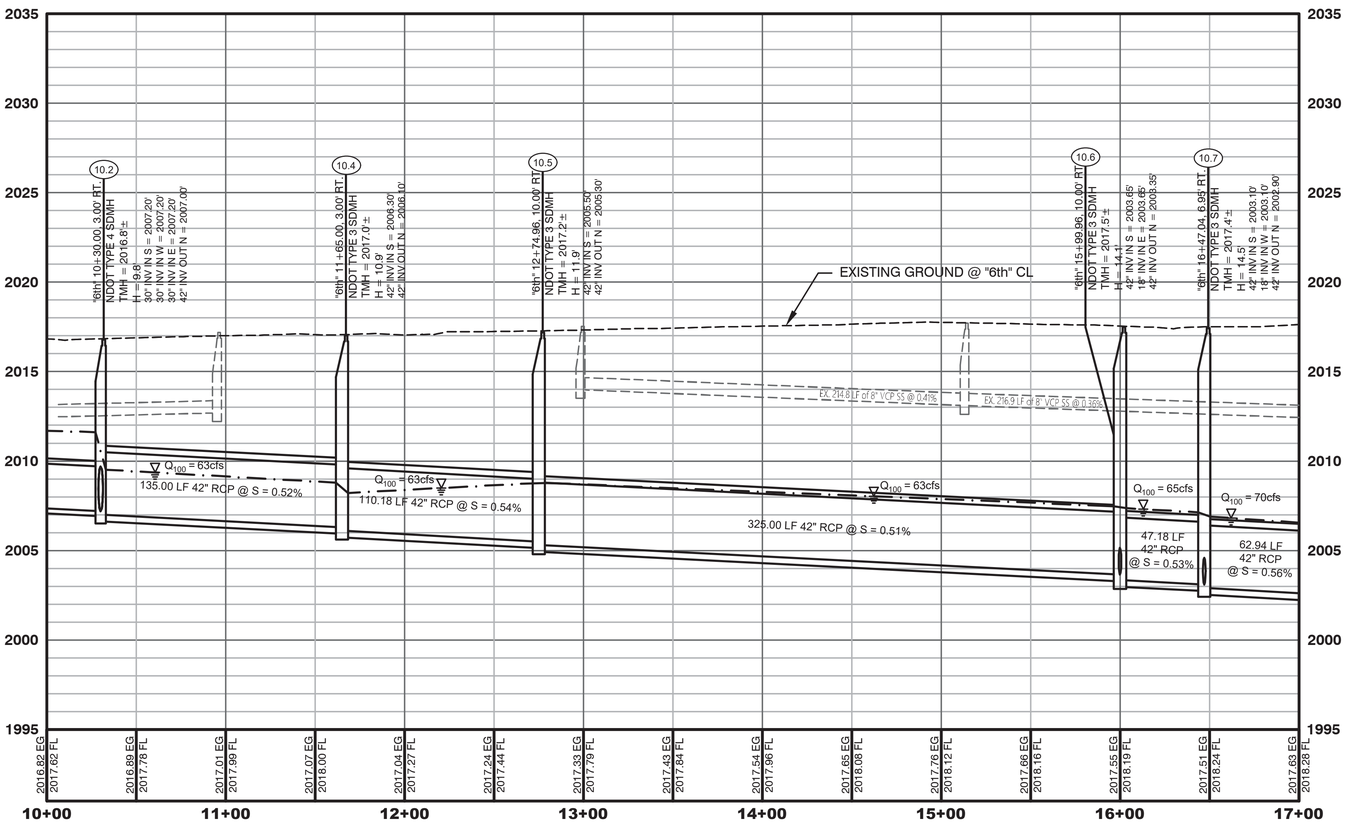
SHEET
SD9
OF
DRAWING NO.
107v7368

708796-SD.dwg





KEYMAP



LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

- A — PROTECT IN PLACE
- AB — ABANDON EXISTING STORM DRAIN
- D — REMOVE EXISTING DROP INLET
- M — REMOVE EXISTING STORM DRAIN MANHOLE
- P — REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
- P — REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(10.1) "6th" 10+15.00, 20.41' LT
CONSTRUCT 17.5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 20.53 L.F. 30" RCP

(10.2) "6th" 10+30.00, 3.00' RT
CONSTRUCT TYPE 4 MANHOLE PER NDOT STD. DWG. No. R-4.3.2
INSTALL 135.00 L.F. 42" RCP

(10.3) "6th" 10+30.00, 18.75' RT
CONSTRUCT 17.5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 10.92 L.F. 30" RCP

(10.4) "6th" 11+65.00, 3.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 110.18 L.F. 42" RCP

(10.5) "6th" 12+74.96, 10.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 325.00 L.F. 42" RCP

(10.6) "6th" 15+99.96, 10.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 47.18 L.F. 42" RCP

(10.7) "6th" 16+47.04, 6.95' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 62.94 L.F. 42" RCP

(10.8) "6th" 16+40.00, 18.53' LT
CONSTRUCT 10.00' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 23.91 L.F. 18" RCP

(10.9) "6th" 16+00.00, 18.50' RT
CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 6.50 L.F. 18" RCP

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
DATE: April 2, 2019
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: 30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

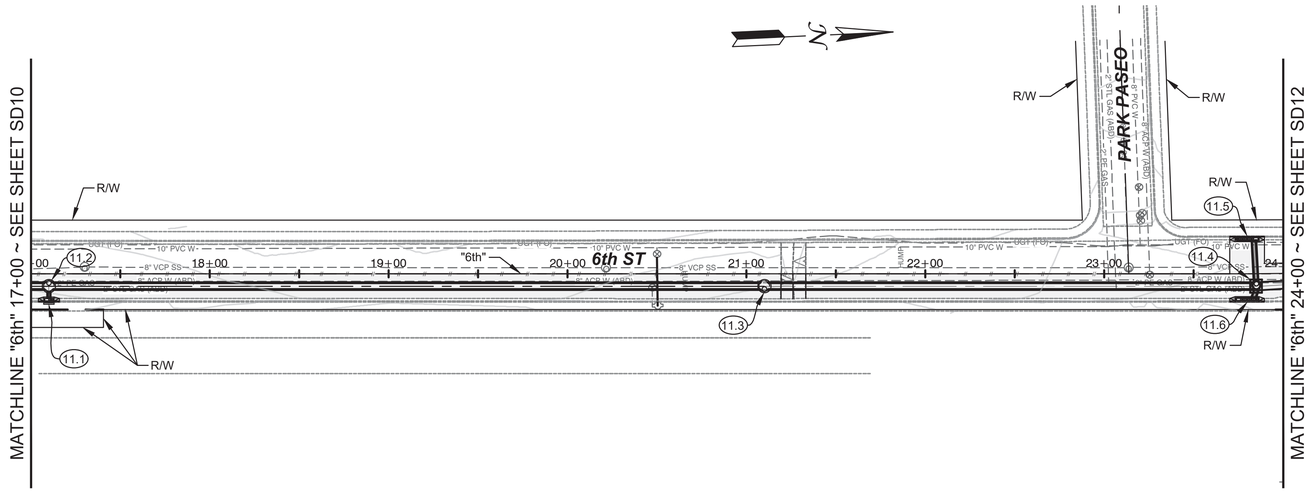
SHEET
STORM DRAIN PLAN & PROFILE
"6th" 10+00 TO "6th" 17+00

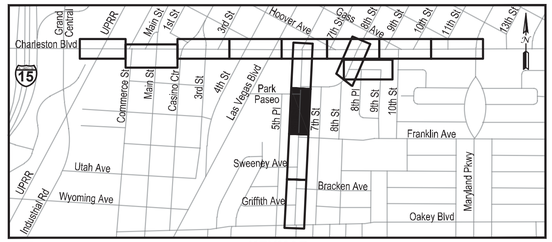
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD10
OF

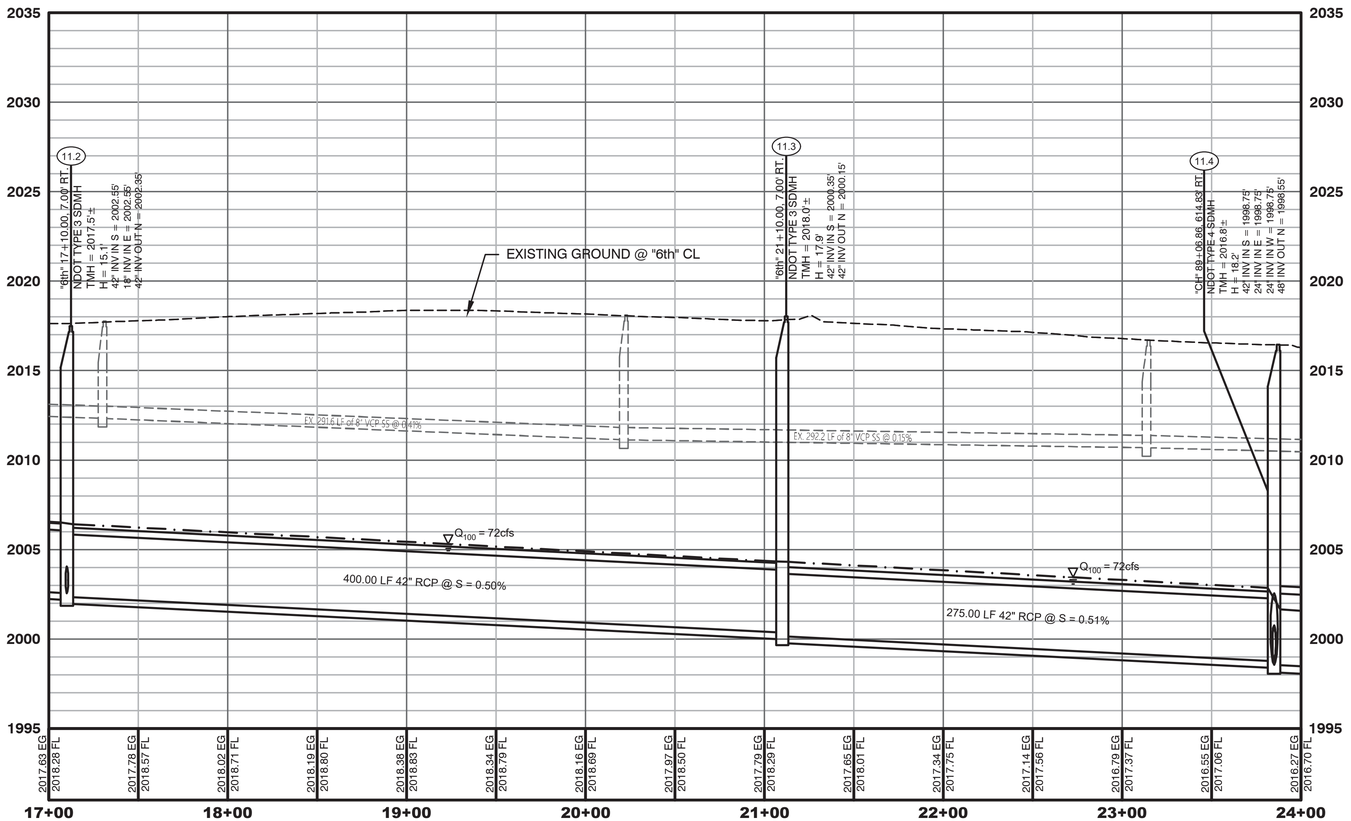
DRAWING NO.
107v7368

7097136-SD.dwg





KEYMAP



LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

- (A) PROTECT IN PLACE
- (AB) ABANDON EXISTING STORM DRAIN
- (D) REMOVE EXISTING DROP INLET
- (M) REMOVE EXISTING STORM DRAIN MANHOLE
- (P) REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
- (P) REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(11.1) "6th" 17+10.00, 15.84' RT
CONSTRUCT 5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 6.73 L.F. 18" RCP

(11.2) "6th" 17+10.00, 7.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 400.00 L.F. 42" RCP

(11.3) "6th" 21+10.00, 7.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 275.00 L.F. 42" RCP

(11.4) "6th" 23+85.00, 7.00' RT
CONSTRUCT TYPE 4 MANHOLE PER NDOT STD. DWG. No. R-4.3.2
INSTALL 75.11 L.F. 48" RCP

(11.5) "6th" 23+80.00, 20.92' LT
CONSTRUCT 12.5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 23.30 L.F. 24" RCP

(11.6) "6th" 23+80.00, 15.82' RT
CONSTRUCT 12.5' TYPE "CM" INLET PER USDCCA STD. DWG. No. 422
INSTALL 4.19 L.F. 24" RCP

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
SUBMITTAL STAGE: 30% SUBMITTAL
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

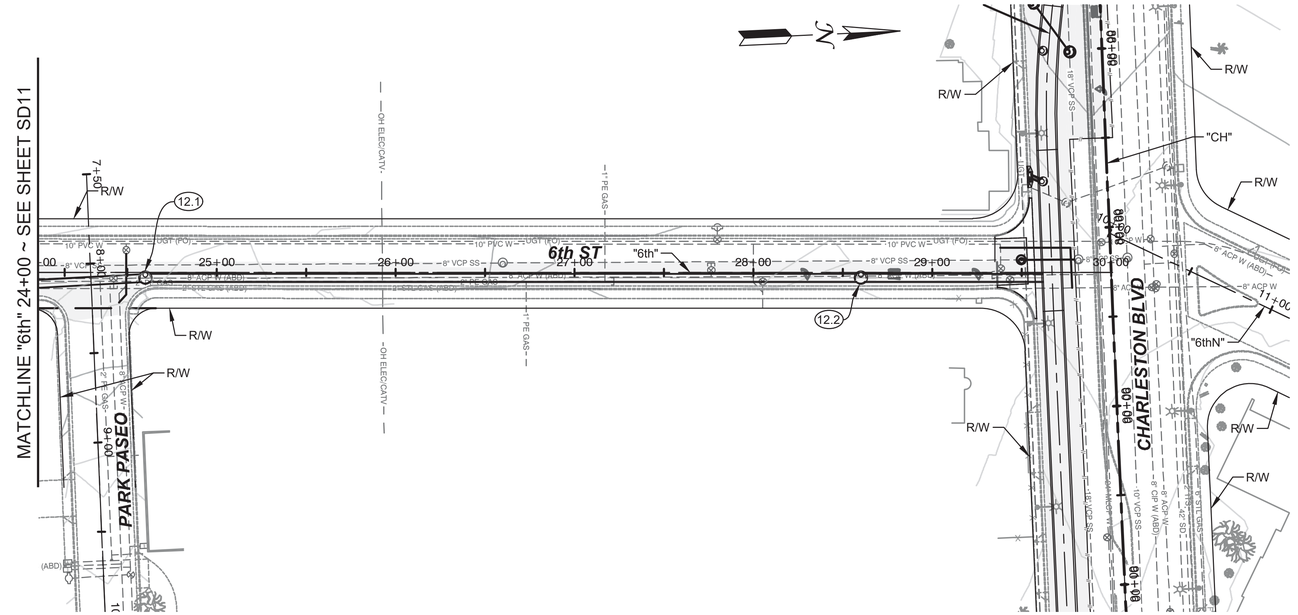
SHEET
STORM DRAIN PLAN & PROFILE
"6th" 17+00 TO "6th" 24+00

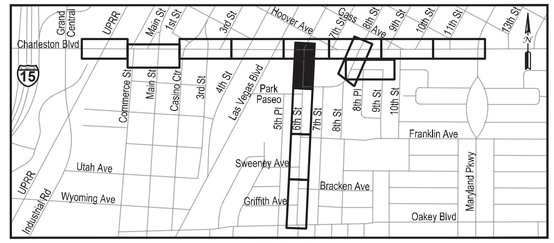
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD11
OF

DRAWING NO.
107v7368

7097/36-SD.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

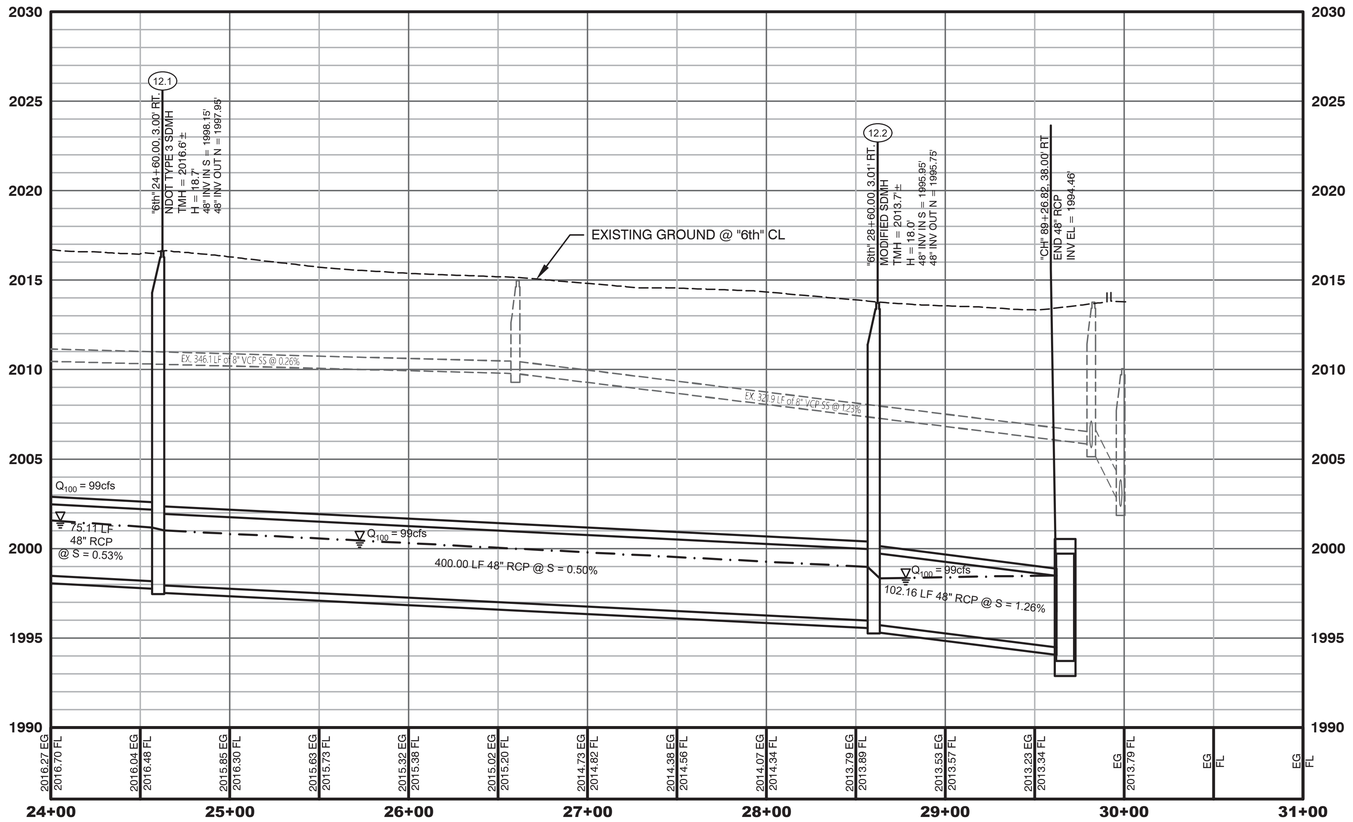
A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(12.1) "6th" 24+60.00, 3.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 400.00 L.F. 48" RCP

(12.2) "6th" 28+60.00, 3.00' RT
CONSTRUCT TYPE 3 MANHOLE PER NDOT STD. DWG. No. R-4.3.1
INSTALL 102.16 L.F. 48" RCP & CONNECT TO RCB



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS
H# 72212
DATE: April 2, 2019
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: 30% SUBMITTAL

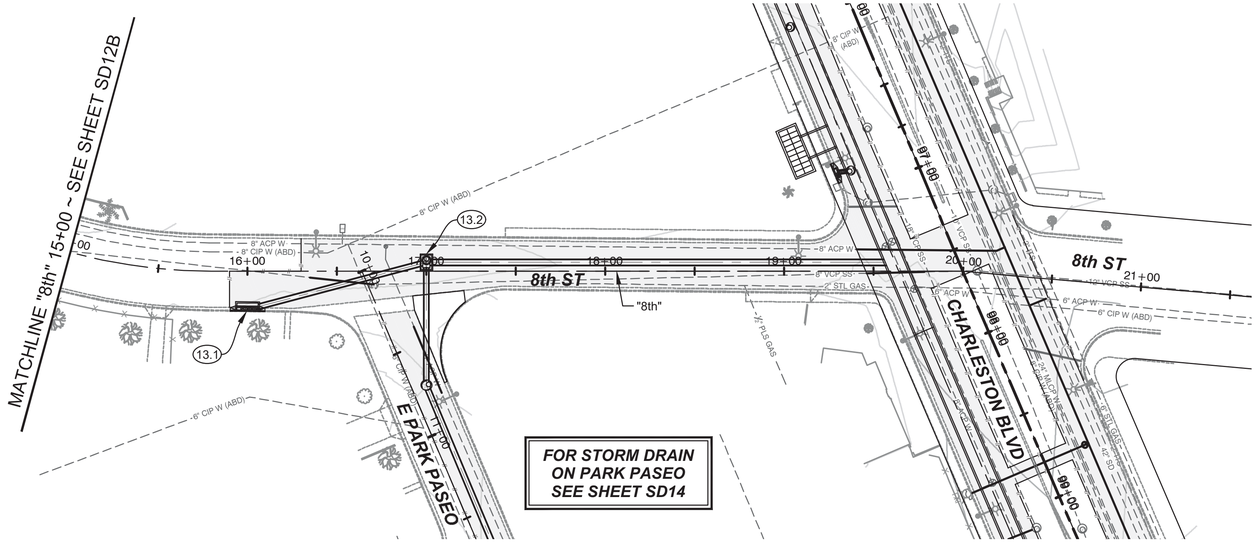
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

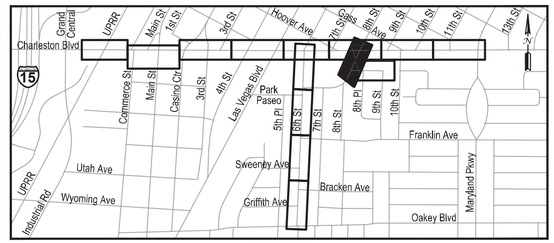
SHEET
STORM DRAIN PLAN & PROFILE
"6th" 24+00 TO "6th" 30+00

30% SUBMITTAL NOT FOR CONSTRUCTION

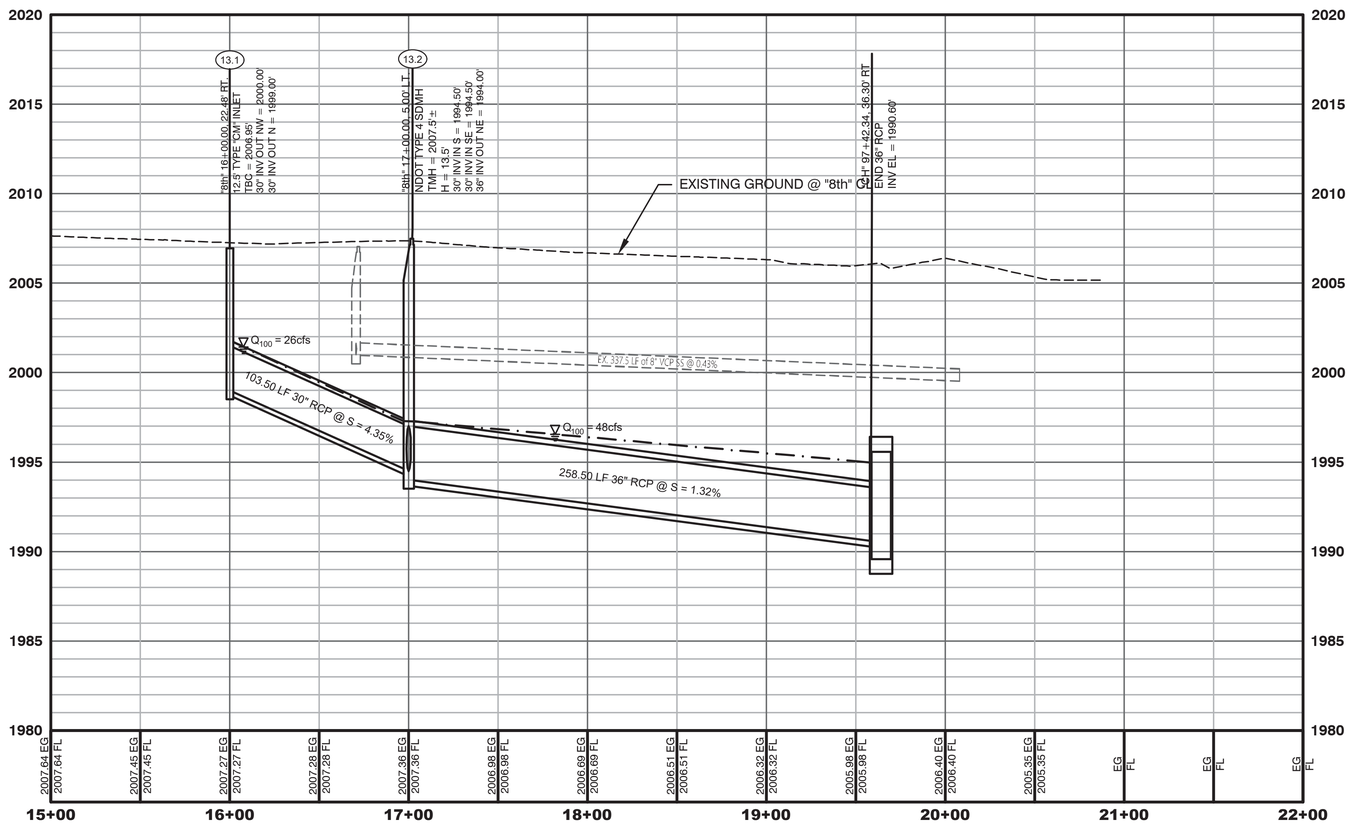
SHEET
SD12
OF
DRAWING NO.
107v7368

7087(8)-SD.dwg





KEYMAP



LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

- A — PROTECT IN PLACE
- AB — ABANDON EXISTING STORM DRAIN
- D — REMOVE EXISTING DROP INLET
- M — REMOVE EXISTING STORM DRAIN MANHOLE
- P — REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
- P — REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(13.1) "8th" 16+00.00, 22.48' RT
CONSTRUCT 12.5' TYPE 'CM' INLET PER USDCCA STD. DWG. No. 422
INSTALL 103.50 L.F. 30" RCP

(13.2) "8th" 17+00.00, 5.00' LT
CONSTRUCT TYPE 4 MANHOLE PER NDOT STD. DWG. No. R-4.3.2
INSTALL 258.50 L.F. 54" RCP & CONNECT TO RCB

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-9611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE:
30% SUBMITTAL

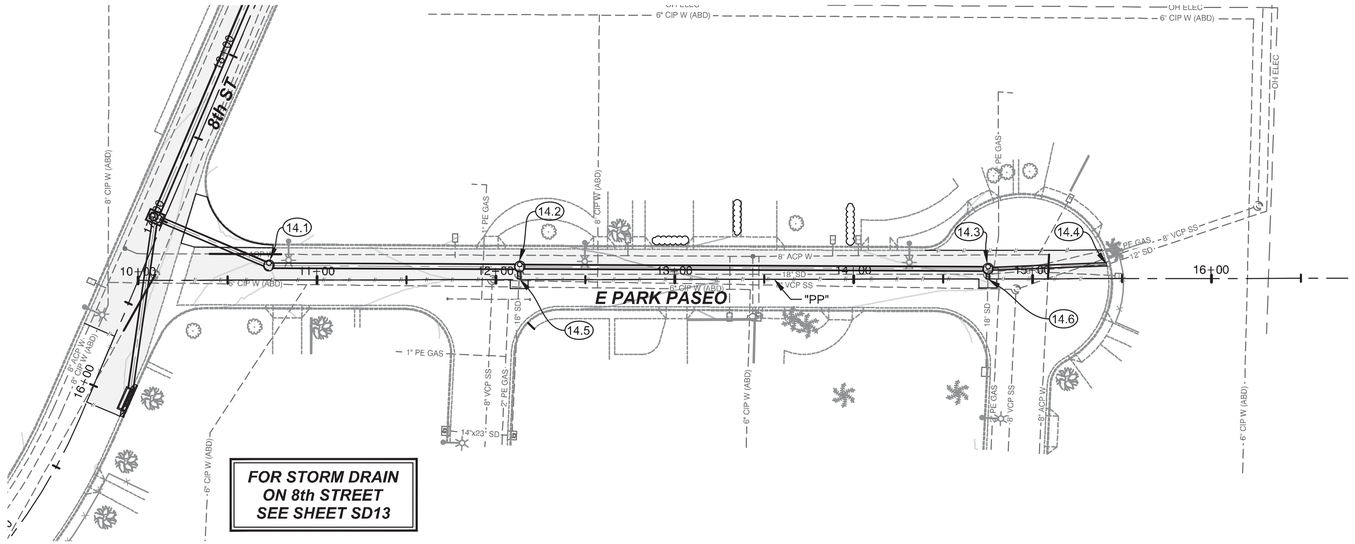
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

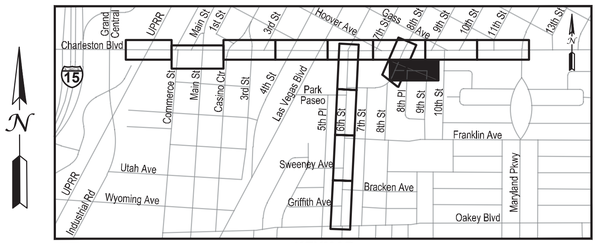
SHEET
STORM DRAIN PLAN & PROFILE
"8th" 15+00 TO "8th" 21+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SD13
OF
DRAWING NO.
107v7368

708798-SD.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

DRAINAGE REMOVAL NOTES

A	PROTECT IN PLACE
AB	ABANDON EXISTING STORM DRAIN
D	REMOVE EXISTING DROP INLET
M	REMOVE EXISTING STORM DRAIN MANHOLE
P	REMOVE EXISTING STORM DRAIN PIPE (SIZE VARIES)
P	REMOVE EXISTING STORM DRAIN STRUCTURES

DRAINAGE CONSTRUCTION NOTES

(A) PROTECT IN PLACE

(14.1) "PP" 10+72.88, 8.11' LT
CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
INSTALL 68.85 L.F. 30" RCP

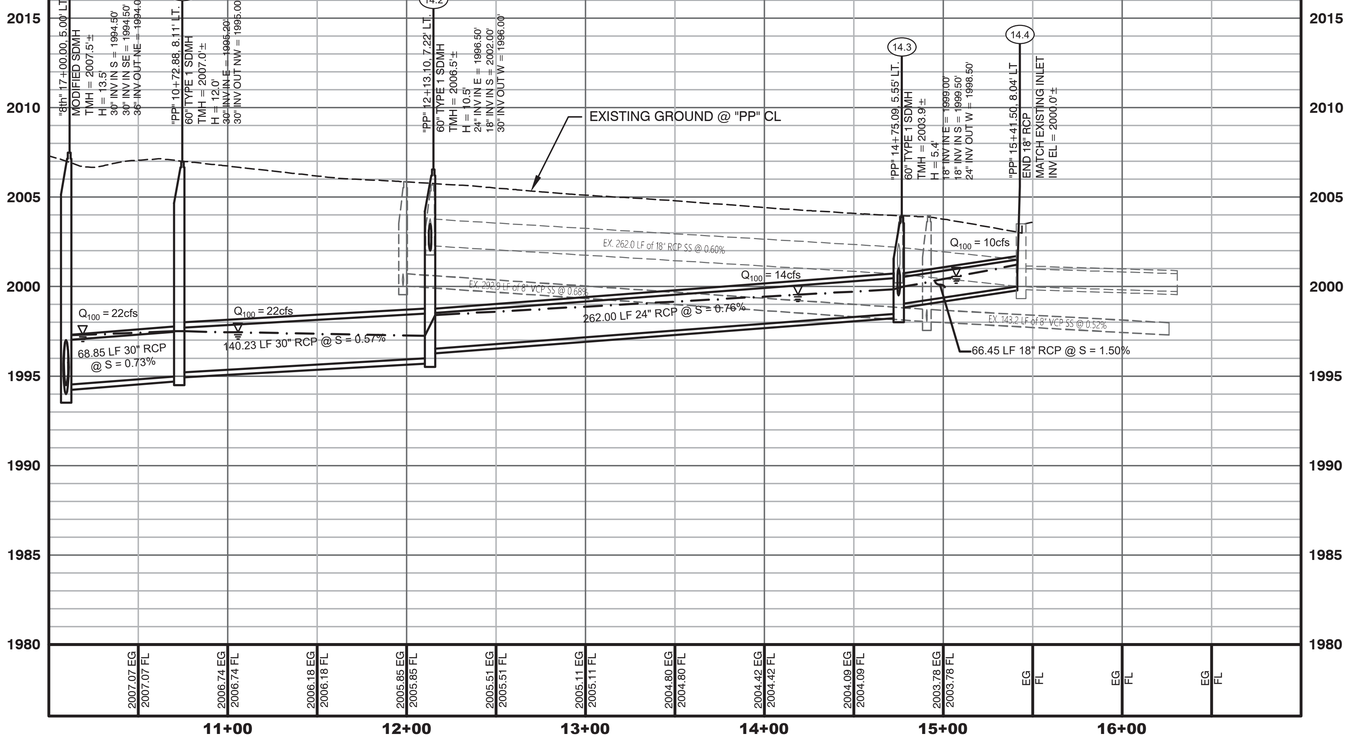
(14.2) "PP" 12+13.10, 7.22' LT
CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
INSTALL 140.23 L.F. 30" RCP

(14.3) "PP" 14+75.09, 5.55' LT
CONSTRUCT 60" TYPE 1 MANHOLE PER USDCCA STD. DWG. No. 403
INSTALL 262.00 L.F. 24" RCP

(14.4) "PP" 15+41.50, 8.04' LT
INSTALL 66.45 L.F. 18" RCP
CONNECT TO EXISTING DROP INLET
ABANDON EXISTING 12" STORM DRAIN

(14.5) "PP" 12+12.95, 0.50' LT
INSTALL 6.73 L.F. 18" RCP
CONNECT TO EXISTING 18" STORM DRAIN WITH CONCRETE COLLAR
PER NDOT STD. DWG. No. R-2.1.1

(14.6) "PP" 14+75.06, 0.00' LT
INSTALL 5.53 L.F. 18" RCP
CONNECT TO EXISTING 18" STORM DRAIN WITH CONCRETE COLLAR
PER NDOT STD. DWG. No. R-2.1.1



NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
4. ALL RCP AND HERCP SHALL BE CLASS III UNLESS OTHERWISE NOTED.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-9611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE:
30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

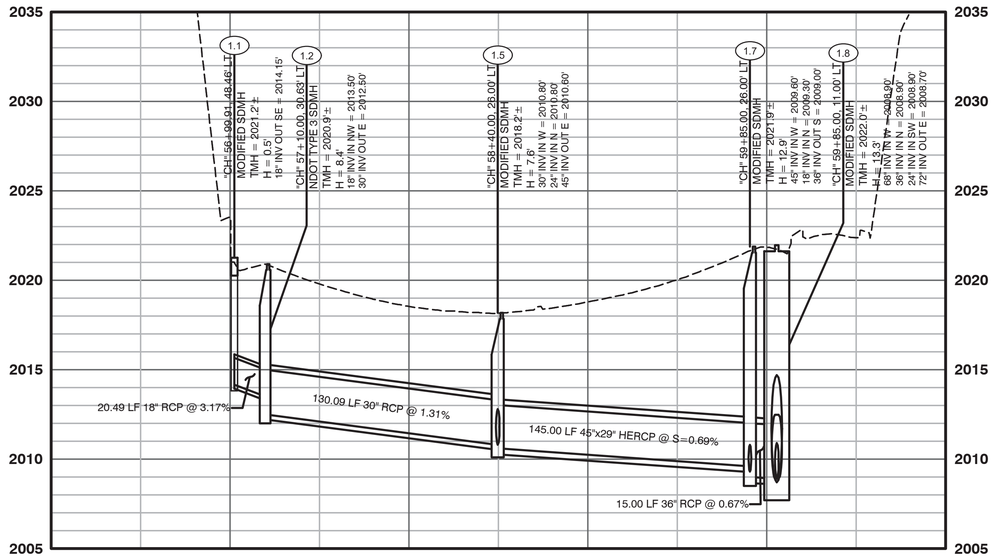
SHEET
STORM DRAIN PLAN & PROFILE
EAST PARK PASEO

30% SUBMITTAL
NOT FOR
CONSTRUCTION

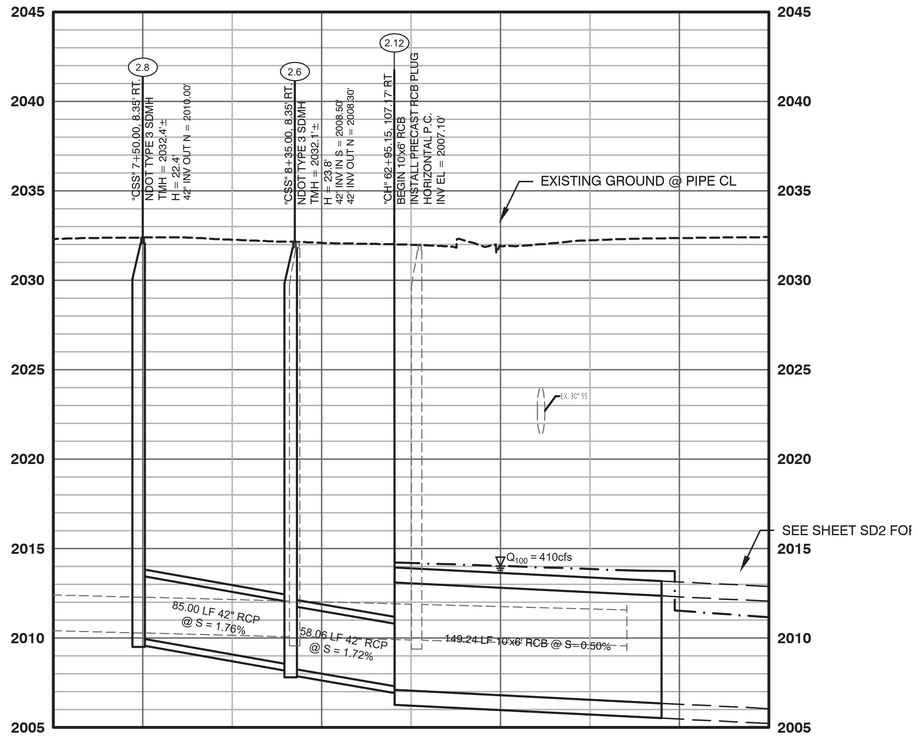
SHEET
SD14
OF

DRAWING NO.
107v7368

7087/36-SD.dwg



NORTH UPRR SUMP LATERAL PROFILE



COMMERCE STREET LATERAL PROFILE

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY: JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR CITY OF LAS VEGAS
H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

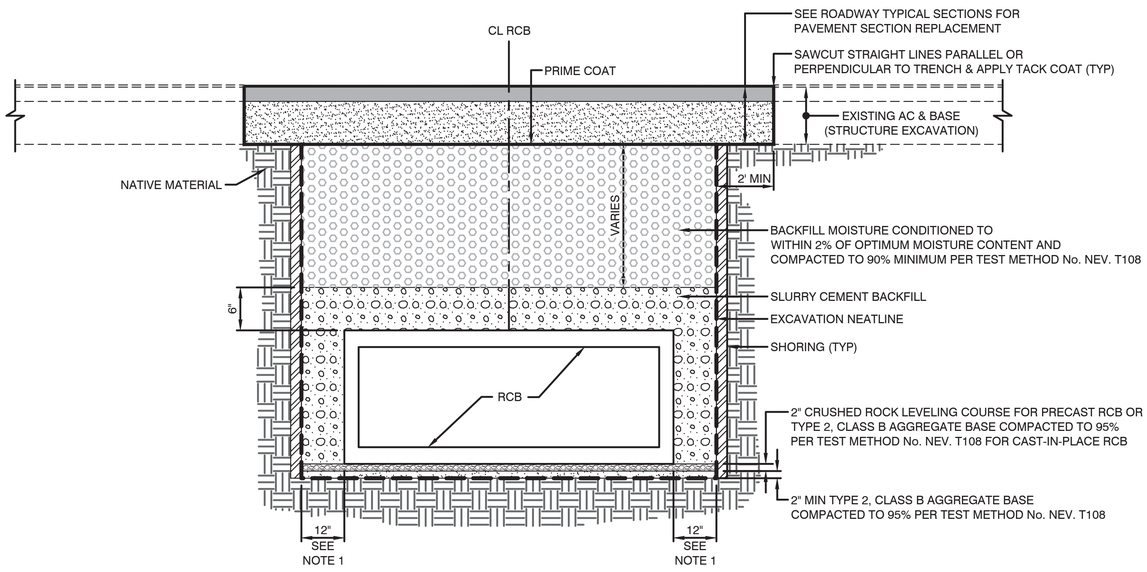
TITLE **FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND**

SHEET STORM DRAIN PROFILES LATERAL PROFILES

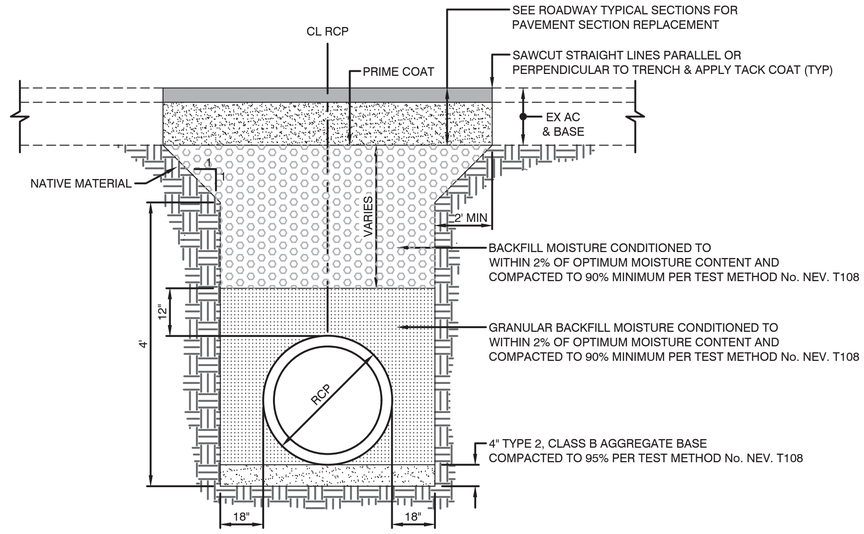
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET **SD15**
OF
DRAWING NO. **107v7368**

7097sd-SD.dwg



A TYPICAL RCB TRENCH
NOT TO SCALE



B TYPICAL RCP TRENCH
NOT TO SCALE

NOTES:

1. 6" MINIMUM IS ALLOWABLE FOR PRECAST RCB.
2. EXCAVATION NEATLINE FOR PAYMENT OF CHANNEL EXCAVATION IS INSIDE FACE OF SHORING AND SUBGRADE.
3. ALL MAINLINE OPEN CHANNEL AND LARGE RCB STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI AT 28 DAYS. ALL OTHER STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
4. TYPE 2 CLASS B AGGREGATE BASE AND CRUSHED ROCK USED FOR BEDDING SHALL BE PAID FOR AS GRANULAR BACKFILL.
5. THE INVERT SLAB FOR ALL CAST-IN-PLACE STRUCTURES SHALL BE CLASS A MODIFIED CONCRETE. CLASS D MODIFIED CONCRETE MAY BE SUBSTITUTED FOR CLASS A MODIFIED CONCRETE AT NO ADDITIONAL COST FOR WALLS AND TOP SLABS.

CALL BEFORE CONSTRUCTION ⚠

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS®
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 | BID# -
DATE: March 19, 2019 | DESIGNED BY:
SUBMITTAL STAGE: 30% SUBMITTAL | DRAWN BY:
CHECKED BY:

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

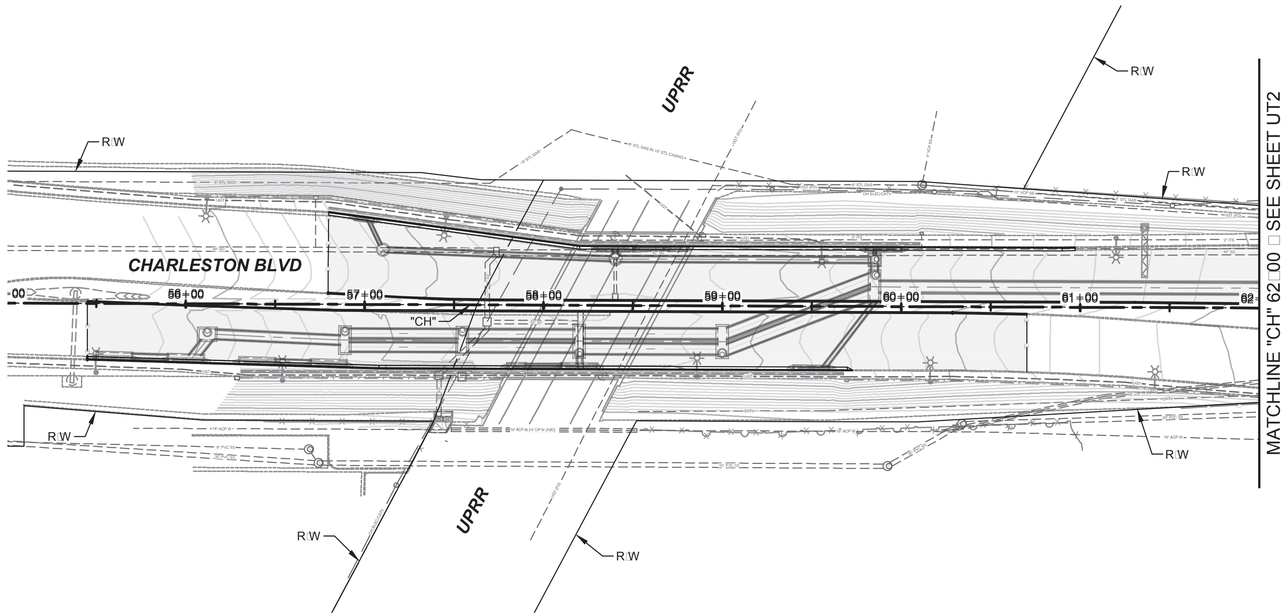
SHEET
TYPICAL TRENCH DETAILS

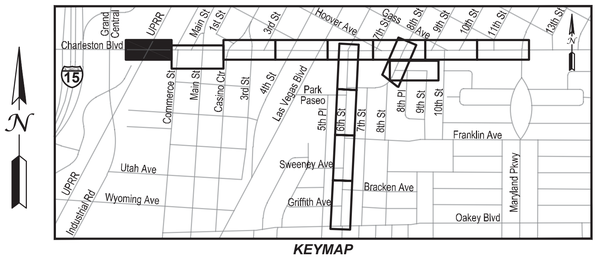
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
DT1
OF

DRAWING NO.
107v7368

7067368-DT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A	PROTECT IN PLACE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE S WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE: **30% SUBMITTAL**
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

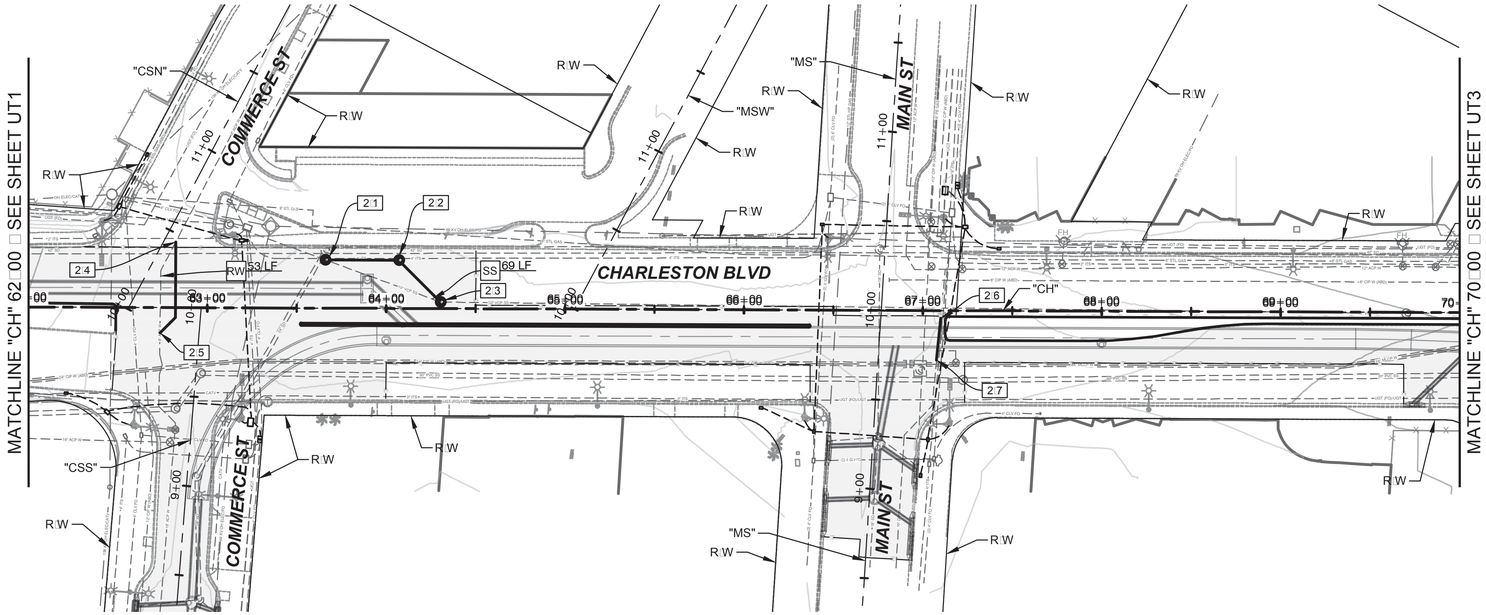
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

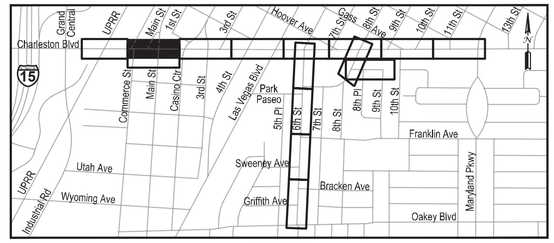
SHEET
UTILITY PLAN
"CH" 55+00 TO "CH" 62+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT1
OF
DRAWING NO.
107v7368

7097364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A — PROTECT IN PLACE

2.1 — "CH" 63+65.85, 27.00' LT
BEGIN 10" SEWER RELOCATION
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 41.12 L.F. 10" PVC SEWER

2.2 — "CH" 64+06.97, 27.00' LT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 33.02 L.F. 10" PVC SEWER

2.3 — "CH" 64+30.32, 3.65' LT
END 10" SEWER RELOCATION
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B

2.4 — "CH" 62+82.13, 36.65' LT
BEGIN 8" WATERLINE RELOCATION
INSTALL 54.5 LF 8" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

2.5 — "CH" 62+73.50, 14.28' RT
END 8" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

2.6 — "CH" 67+09.98, 4.36' RT
BEGIN 12" WATERLINE RELOCATION
INSTALL 23.4 LF 12" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

2.7 — "CH" 67+07.83, 27.74' RT
END 12" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.

2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

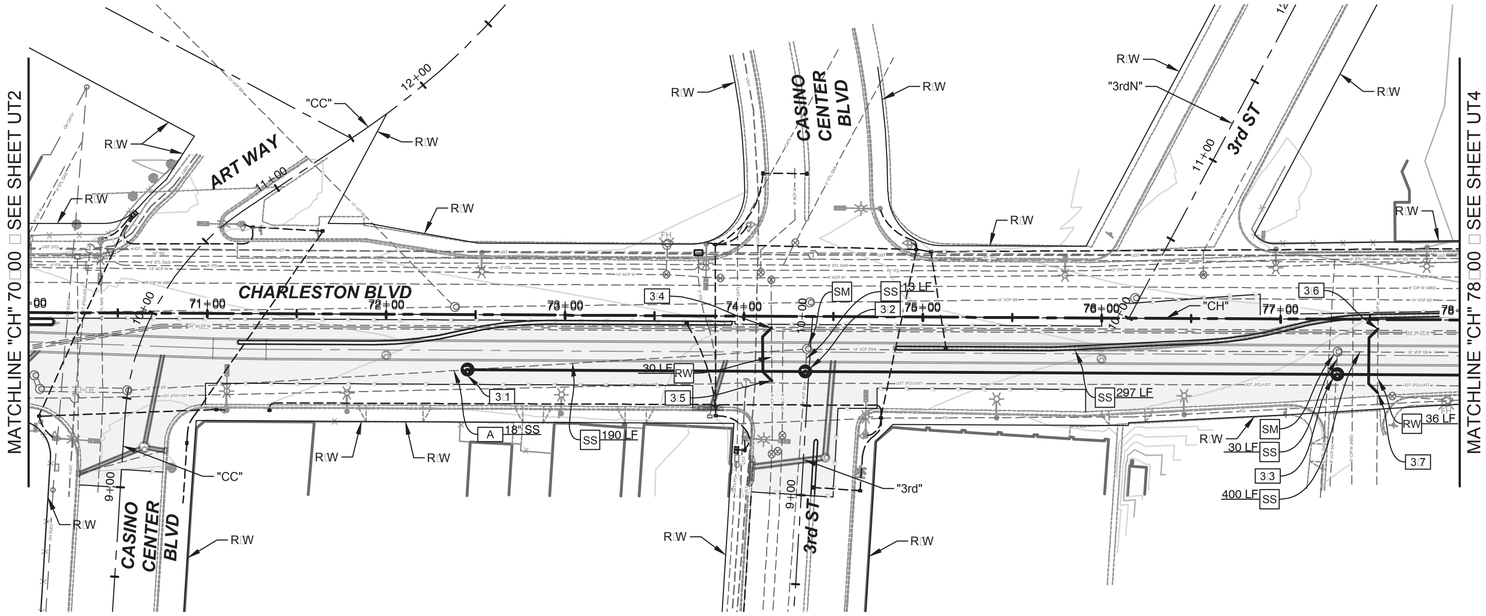
SHEET
UTILITY PLAN
"CH" 62+00 TO "CH" 70+00

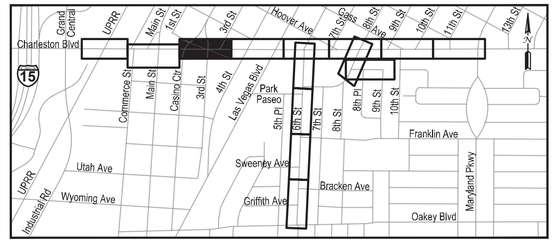
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT2
OF

DRAWING NO.
107v7368

7067368-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A PROTECT IN PLACE

3:1 "CH" 72+45.50, 30.83' RT
BEGIN 18" SEWER RELOCATION
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 188.94 L.F. 18" PVC SEWER

3:2 "CH" 74+34.45, 30.83' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 297.45 L.F. 18" PVC SEWER

3:3 "CH" 77+31.89, 30.83' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 295.01 L.F. 18" PVC SEWER

3:4 "CH" 74+15.42, 6.50' RT
BEGIN 12" WATERLINE RELOCATION
INSTALL 33.65 LF 12" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

3:5 "CH" 74+15.83, 36.00' RT
END 12" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

3:6 "CH" 77+54.57, 5.35' RT
BEGIN 6" WATERLINE RELOCATION
INSTALL 39.70 LF 6" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

3:7 "CH" 77+54.46, 40.90' RT
END 6" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

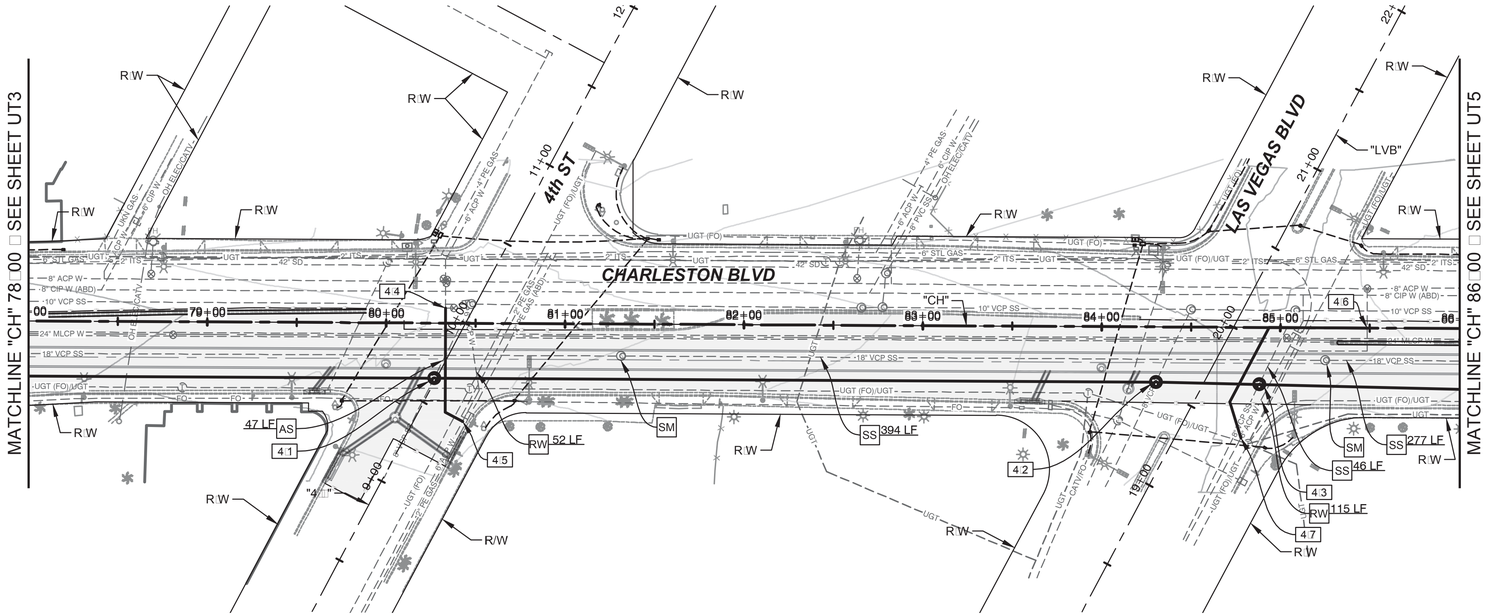
SHEET
UTILITY PLAN
"CH" 70+00 TO "CH" 78+00

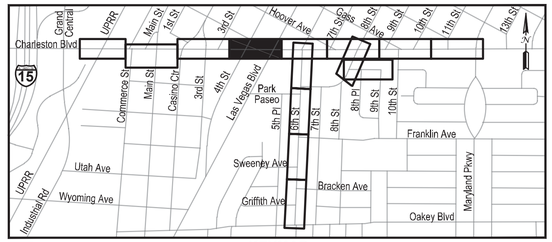
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT3
OF

DRAWING NO.
107v7368

70tf78-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A PROTECT IN PLACE

4:1 "CH" 80+26.91, 30.83' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 403.61 L.F. 18" PVC SEWER

4:2 "CH" 84+30.52, 30.83' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 57.70 L.F. 18" PVC SEWER

4:3 "CH" 84+88.21, 31.88' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 285.11 L.F. 18" PVC SEWER

4:4 "CH" 80+33.17, 8.42' LT
BEGIN 6" WATERLINE RELOCATION
INSTALL 69.24 LF 6" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

4:5 "CH" 80+42.98, 54.88' RT
END 6" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

4:6 "CH" 85+48.49, 0.00' LT
BEGIN 8" WATERLINE RELOCATION
INSTALL 122.94 LF 8" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

4:7 "CH" 84+78.16, 61.84' RT
END 8" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
DATE: April 2, 2019
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

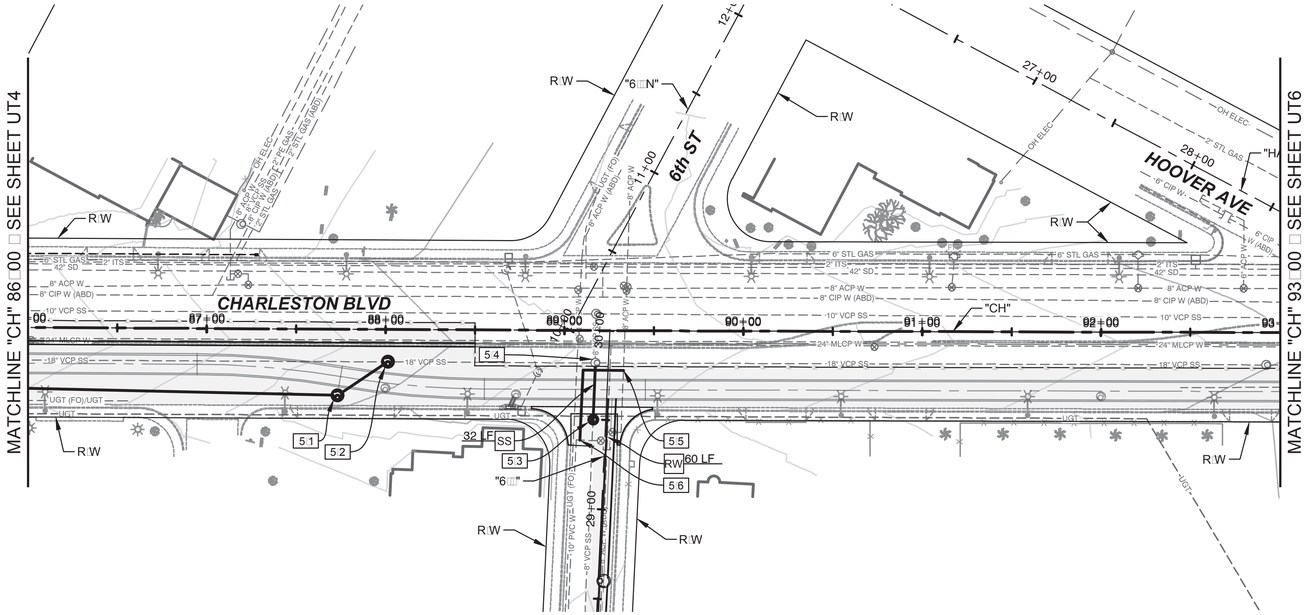
SHEET
UTILITY PLAN
"CH" 78+00 TO "CH" 86+00

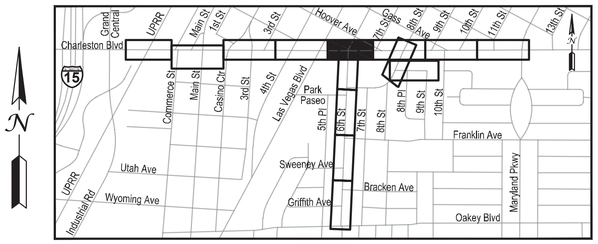
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT4
OF

DRAWING NO.
107v7368

708736-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A — PROTECT IN PLACE

5:1 — "CH" 87+73.27, 37.03' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 33.72 L.F. 18" PVC SEWER

5:2 — "CH" 88+01.22, 18.16' RT
END 18" SEWER RELOCATION
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B

5:3 — "CH" 89+16.22, 50.00' RT
BEGIN 8" SEWER RELOCATION
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 31.84 L.F. 8" PVC SEWER

5:4 — "CH" 89+17.36, 18.16' RT
END 8" SEWER RELOCATION & CONNECT TO EXISTING MANHOLE

5:5 — "CH" 80+33.17, 8.42' LT
BEGIN 8" WATERLINE RELOCATION
INSTALL 69.24 LF 8" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

5:6 — "CH" 80+42.98, 54.88' RT
END 8" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
SUBMITTAL STAGE: 30% SUBMITTAL
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

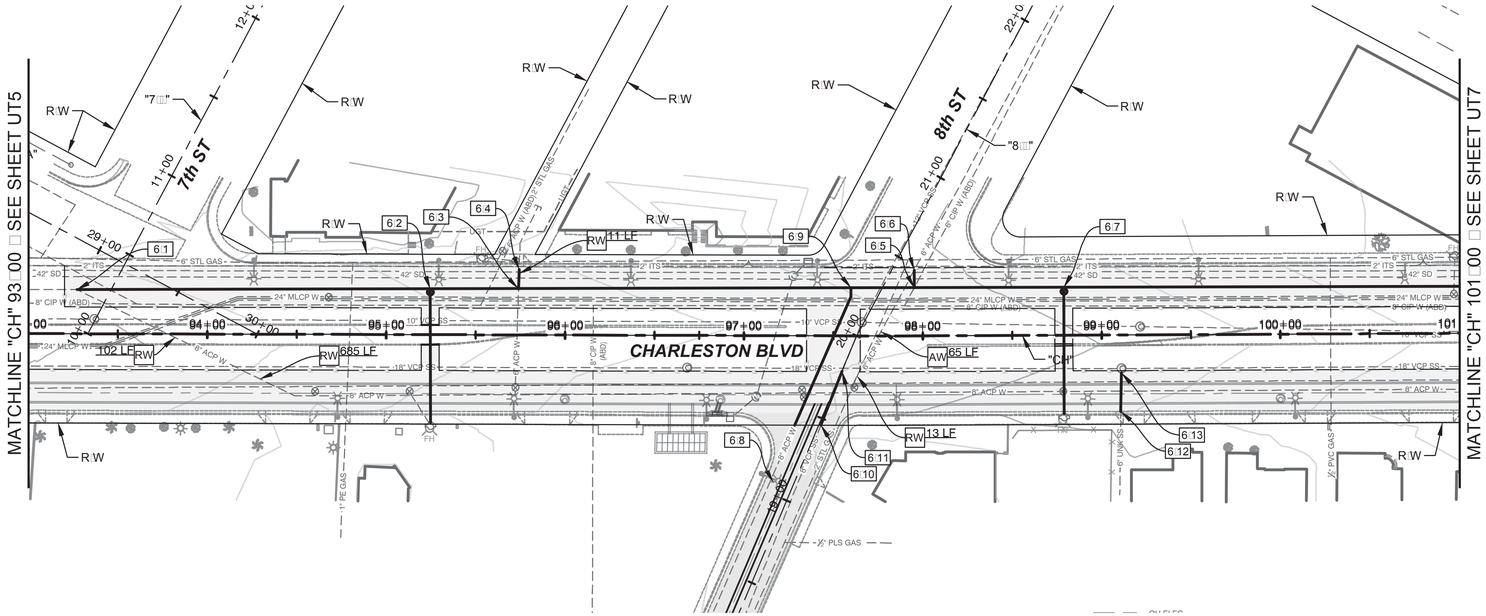
SHEET
UTILITY PLAN
"CH" 86+00 TO "CH" 93+00

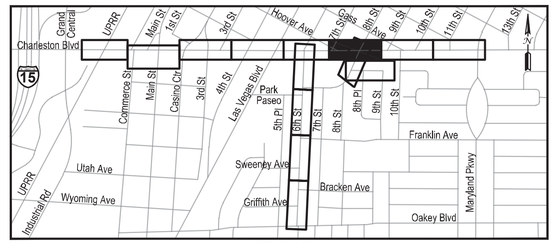
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT5
OF

DRAWING NO.
107v7368

7087364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A	PROTECT IN PLACE
6:1	"CH" 93+27.07, 24.60' LT BEGIN 8" WATERLINE RELOCATION - INSTALL 1,316.44 LF 8" PVC WATERLINE CONNECT TO EXISTING WATERLINE
6:2	"CH" 95+24.51, 25.62' LT RELOCATE FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATES. No. 39 & 40
6:3	"CH" 95+73.95, 25.87' LT BEGIN 6" WATERLINE RELOCATION - INSTALL 10.68 LF 6" PVC WATERLINE
6:4	"CH" 95+74.27, 36.55' LT END 6" WATERLINE RELOCATION - CONNECT TO EXISTING WATERLINE
6:5	"CH" 97+95.43, 26.94' LT BEGIN 6" WATERLINE RELOCATION - INSTALL 9.84 LF 6" PVC WATERLINE
6:6	"CH" 97+95.45, 36.78' LT END 6" WATERLINE RELOCATION - CONNECT TO EXISTING WATERLINE
6:7	"CH" 98+79.00, 26.74' LT RELOCATE FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATES. No. 39 & 40
6:8	"CH" 97+28.65, 50.00' RT BEGIN 8" WATERLINE RELOCATION - INSTALL 92.28 LF 8" PVC WATERLINE
6:9	"CH" 97+59.72, 26.83' LT END 8" WATERLINE RELOCATION - CONNECT TO RELOCATED 8" WATERLINE
6:10	"CH" 97+43.16, 50.00' RT BEGIN 8" SEWER RELOCATION - INSTALL 32.25 LF 8" PVC SEWER CONNECT TO EXISTING SEWER
6:11	"CH" 97+55.00, 20.00' RT END 8" SEWER RELOCATION - CONNECT TO EXISTING 8" SEWER
6:12	"CH" 99+10.58, 42.75' RT BEGIN 6" SEWER RELOCATION - INSTALL 21.43 LF 6" PVC SEWER CONNECT TO EXISTING SEWER
6:13	"CH" 99+10.96, 21.32' RT END 6" SEWER RELOCATION - CONNECT TO EXISTING 6" SEWER

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
SUBMITTAL STAGE: 30% SUBMITTAL DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

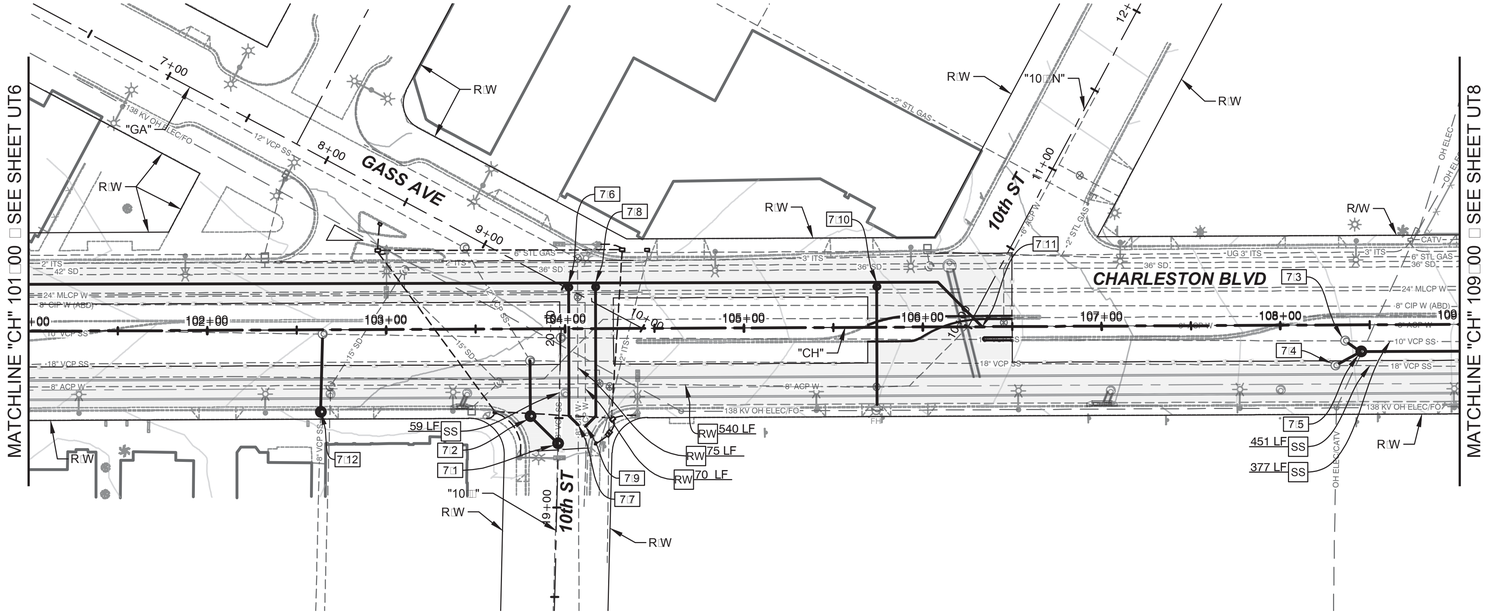
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

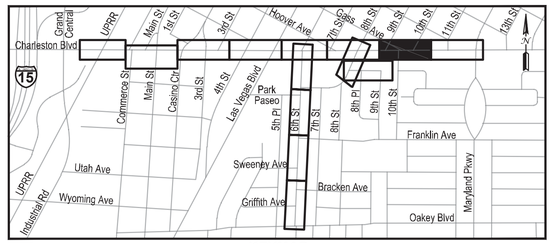
SHEET
UTILITY PLAN
"CH" 95+00 TO "CH" 102+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT6
OF
DRAWING NO.
107v7368

7/08/19-6 UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A PROTECT IN PLACE

7:1 "CH" 103+95.69, 64.20' RT
BEGIN 8" SEWER RELOCATION
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 21.73 L.F. 8" PVC SEWER

7:2 "CH" 103+80.32, 48.83' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 30.92 L.F. 8" PVC SEWER & CONNECT TO EXISTING MANHOLE

7:3 "CH" 108+36.74, 8.96' RT
BEGIN 10" SEWER RELOCATION
CONNECT TO EXISTING MANHOLE & INSTALL 10.79 L.F. 10" PVC SEWER

7:4 "CH" 108+31.28, 22.56' RT
BEGIN 18" SEWER RELOCATION
CONNECT TO EXISTING MANHOLE & INSTALL 16.26 L.F. 18" PVC SEWER

7:5 "CH" 108+45.00, 15.00' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 235.00 L.F. 18" PVC SEWER

7:6 "CH" 104+02.06, 25.49' LT
BEGIN 8" WATERLINE RELOCATION - INSTALL 81.39 LF 8" PVC WATERLINE

7:7 "CH" 104+07.08, 53.83' RT
END 8" WATERLINE RELOCATION & CONNECT TO EXISTING WATERLINE

7:8 "CH" 104+17.06, 25.46' LT
BEGIN 8" WATERLINE RELOCATION - INSTALL 81.39 LF 8" PVC WATERLINE

7:9 "CH" 104+11.24, 54.68' RT
END 8" WATERLINE RELOCATION & CONNECT TO EXISTING WATERLINE

7:10 "CH" 105+74.36, 25.08' RT
RELOCATE FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATES. No. 39 & 40

7:11 "CH" 106+33.27, 0.00' RT
END 8" WATERLINE RELOCATION & CONNECT TO EXISTING WATERLINE

7:12 "CH" 102+63.08, 45.92' RT
CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B
INSTALL 45.55 L.F. 8" PVC SEWER & CONNECT TO EXISTING MANHOLE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

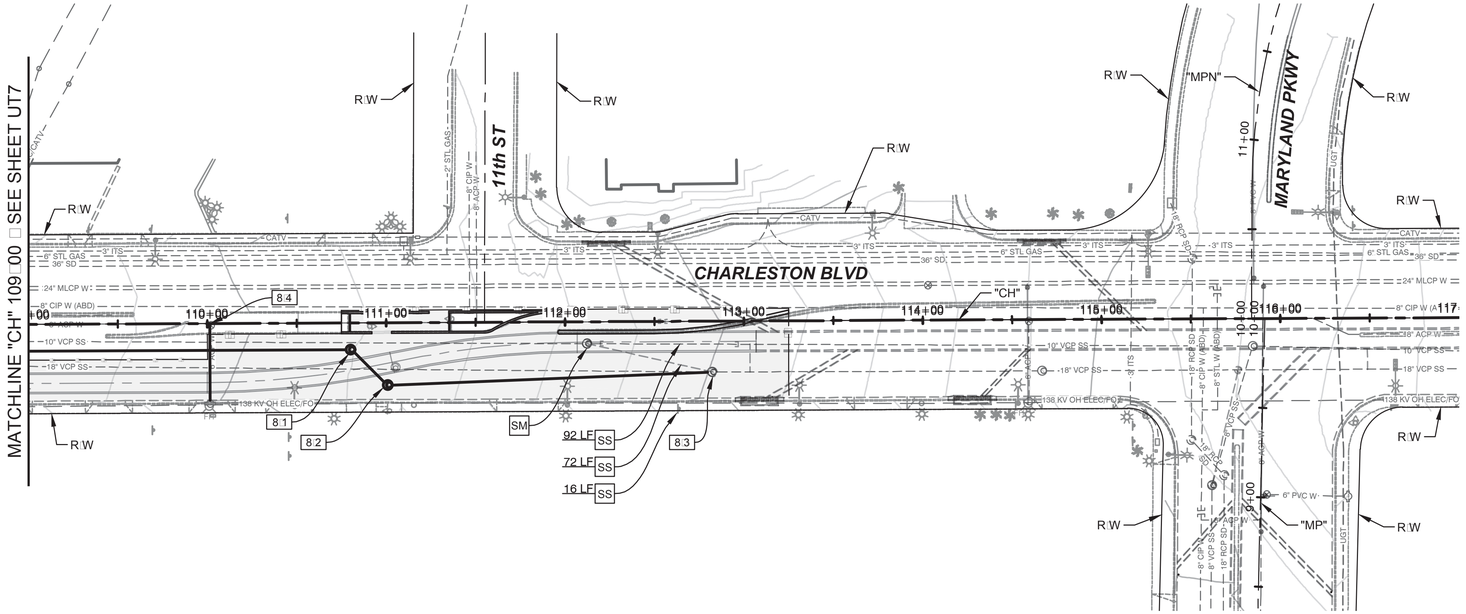
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

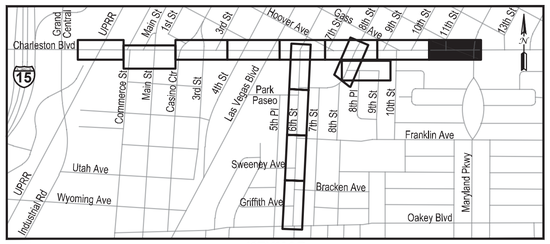
SHEET
UTILITY PLAN
"CH" 101+00 TO "CH" 109+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT7
OF
DRAWING NO.
107v7368

7v97368-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A	PROTECT IN PLACE
8:1	"CH" 110+80.00, 15.00' RT CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B INSTALL 28.77 L.F. 18" PVC SEWER
8:2	"CH" 111+00.68, 18.16' RT CONSTRUCT MANHOLE PER DCSWCS STD. DWG. No. SD-1A & SD-1B INSTALL 181.43 L.F. 18" PVC SEWER
8:3	"CH" 112+82.67, 28.42' RT END 18" SEWER RELOCATION & CONNECT TO EXISTING MANHOLE
8:4	"CH" 110+01.39, 0.00' RT RELOCATE FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATES. No. 39 & 40

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE S WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

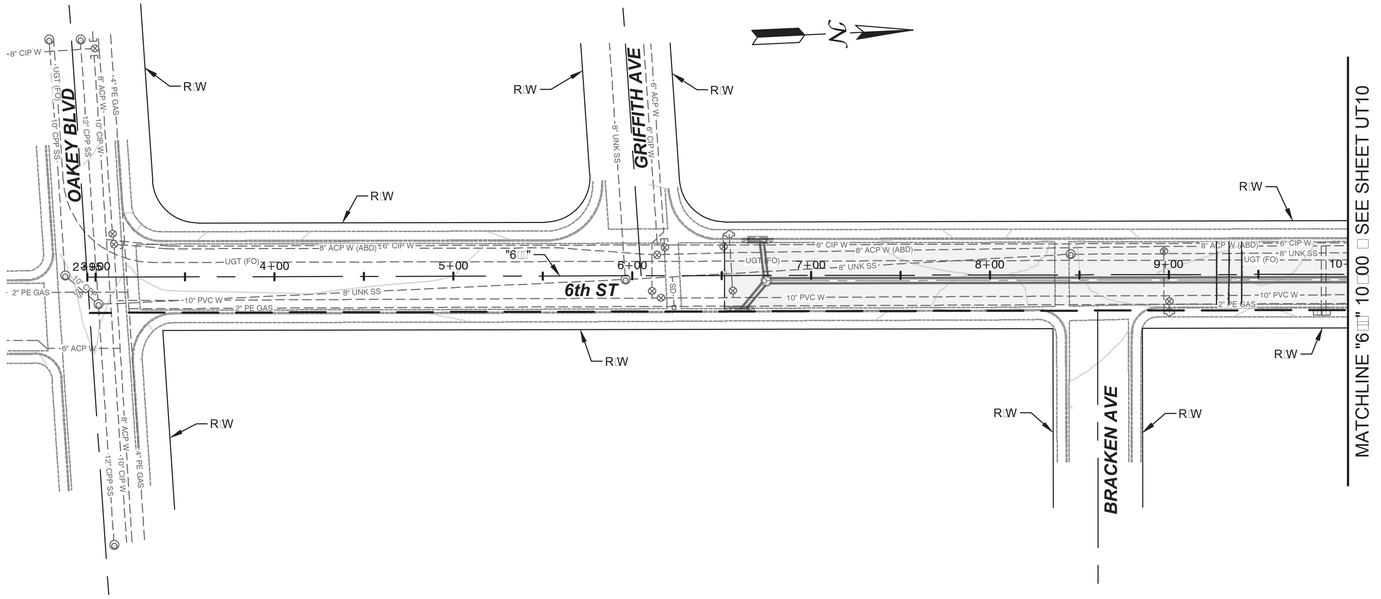
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

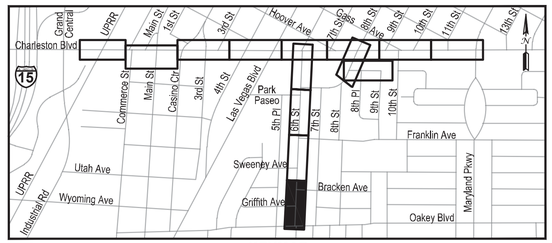
SHEET
UTILITY PLAN
"CH" 109+00 TO "CH" 117+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT8
OF
DRAWING NO.
107v7368

7v97936-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A	PROTECT IN PLACE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
DATE: April 2, 2019
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE:
30% SUBMITTAL

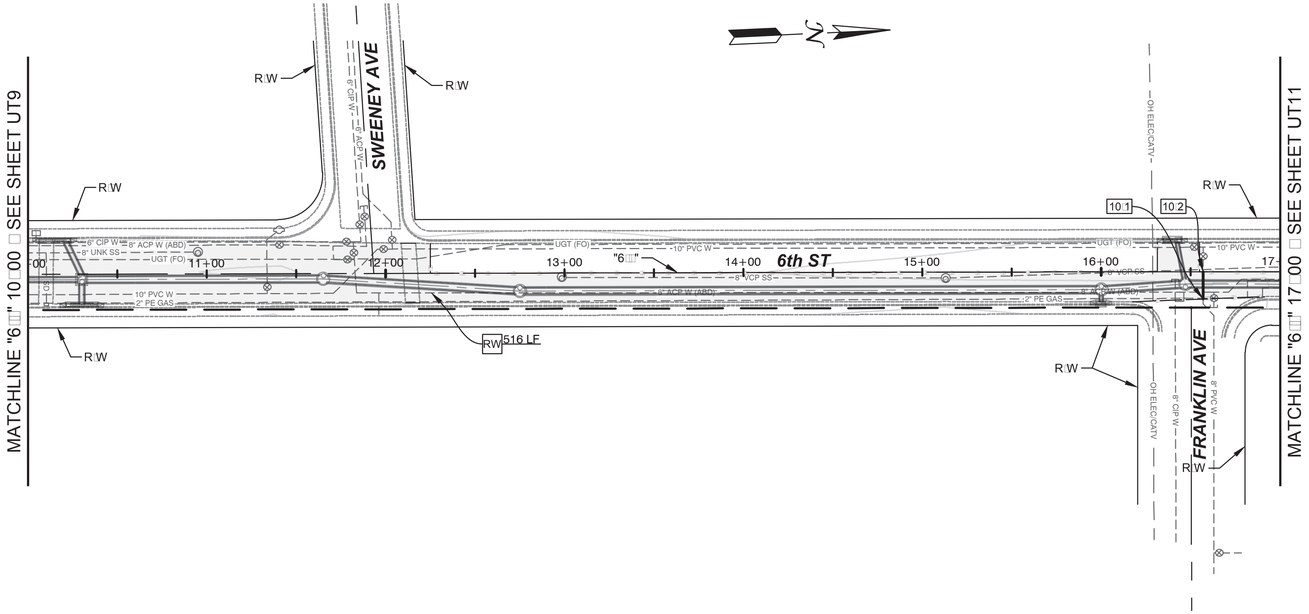
TITLE
FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND

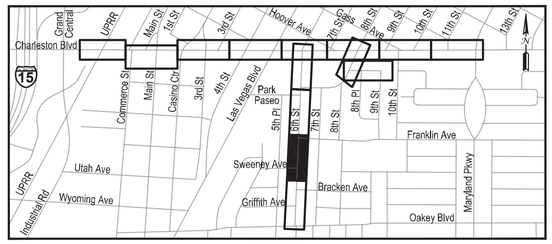
SHEET
UTILITY PLAN
"6" 2+95 TO "6" 10+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT9
OF
DRAWING NO.
107v7368

7097364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A PROTECT IN PLACE

10:1 "6th" 16+57.11, 15.32' LT
BEGIN 8" WATERLINE RELOCATION
INSTALL 15.32 LF 8" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

10:2 "6th" 16+57.11, 0.00' LT
END 8" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE S WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
SUBMITTAL STAGE: 30% SUBMITTAL DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

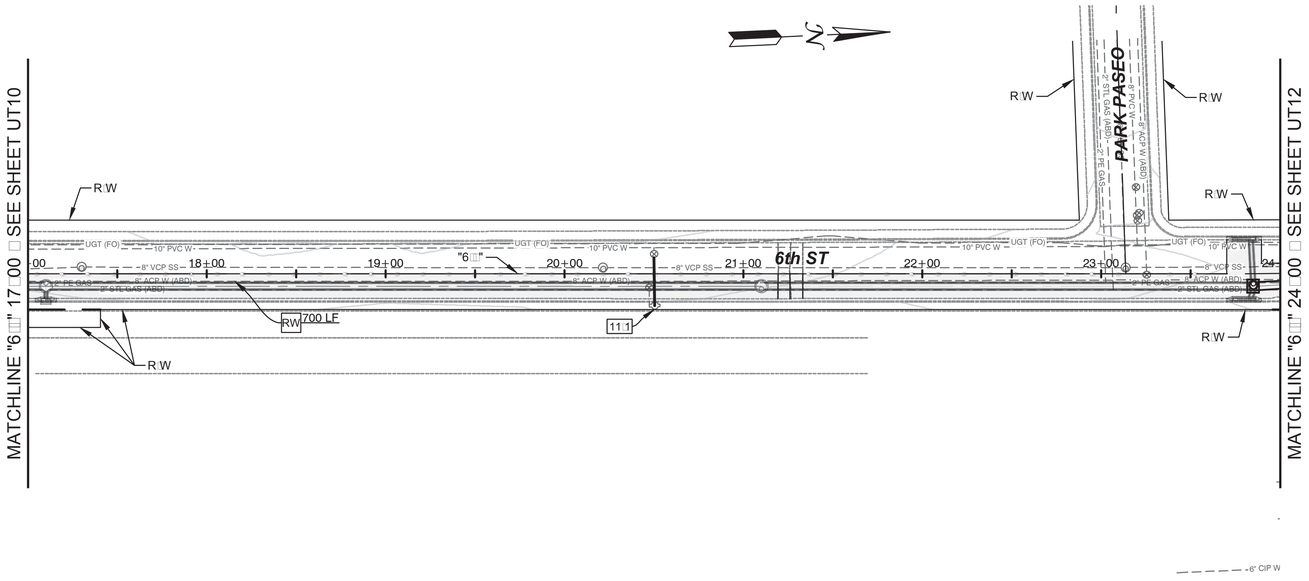
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

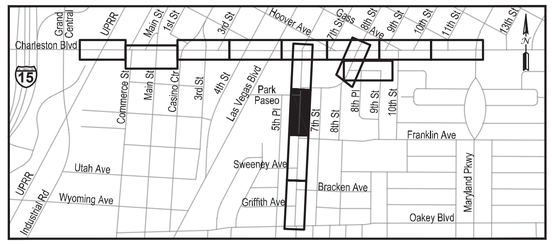
SHEET
UTILITY PLAN
"6" 10+00 TO "6" 17+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT10
OF
DRAWING NO.
107v7368

7097364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A	PROTECT IN PLACE
11.1	"6th" 20+50.47, 17.84' RT RELOCATE FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATES. No. 39 & 40

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE S WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
SUBMITTAL STAGE: 30% SUBMITTAL
CHECKED BY: J. GRIEST

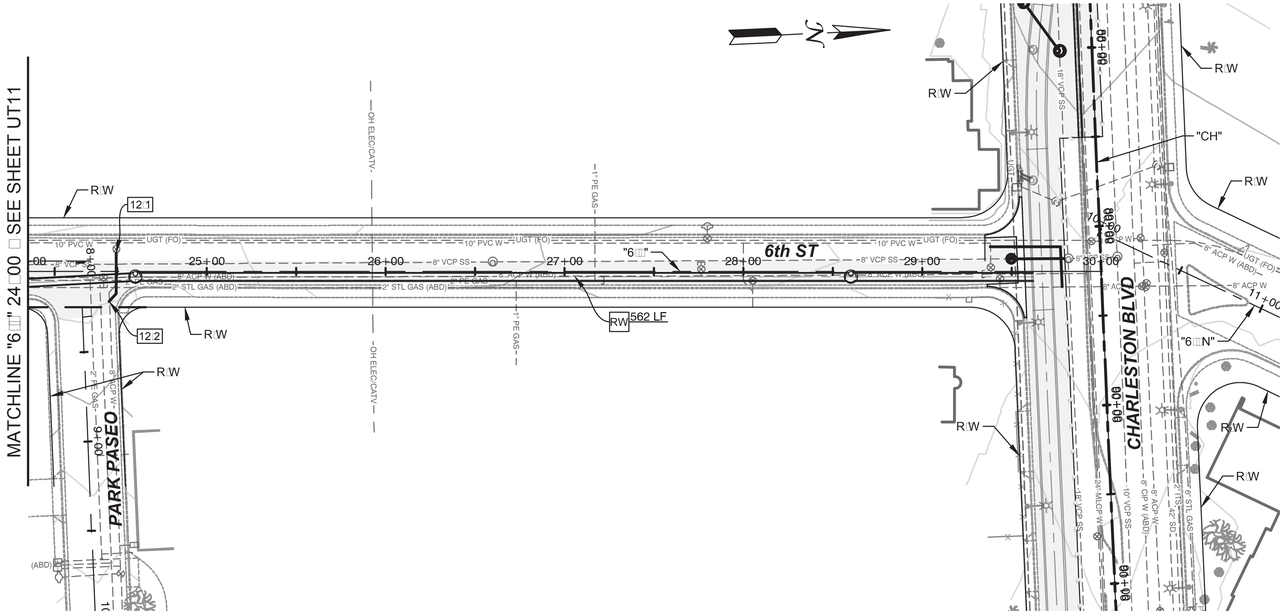
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

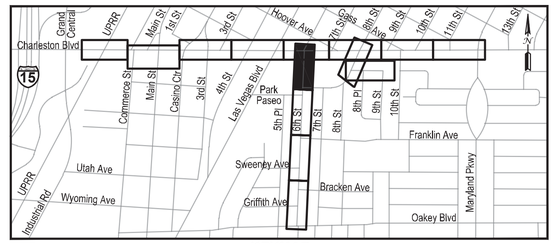
SHEET
UTILITY PLAN
"6" 17+00 TO "6" 24+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT11
OF
DRAWING NO.
107v7368

7097364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A	PROTECT IN PLACE
12.1	"6th" 24+49.24, 10.60' LT BEGIN 8" WATERLINE RELOCATION INSTALL 28.83 LF 8" PVC WATERLINE CONNECT TO EXISTING WATERLINE
12.2	"6th" 24+45.32, 16.73' RT END 8" WATERLINE RELOCATION CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE S WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
DATE: April 2, 2019
SUBMITTAL STAGE: **30% SUBMITTAL**
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

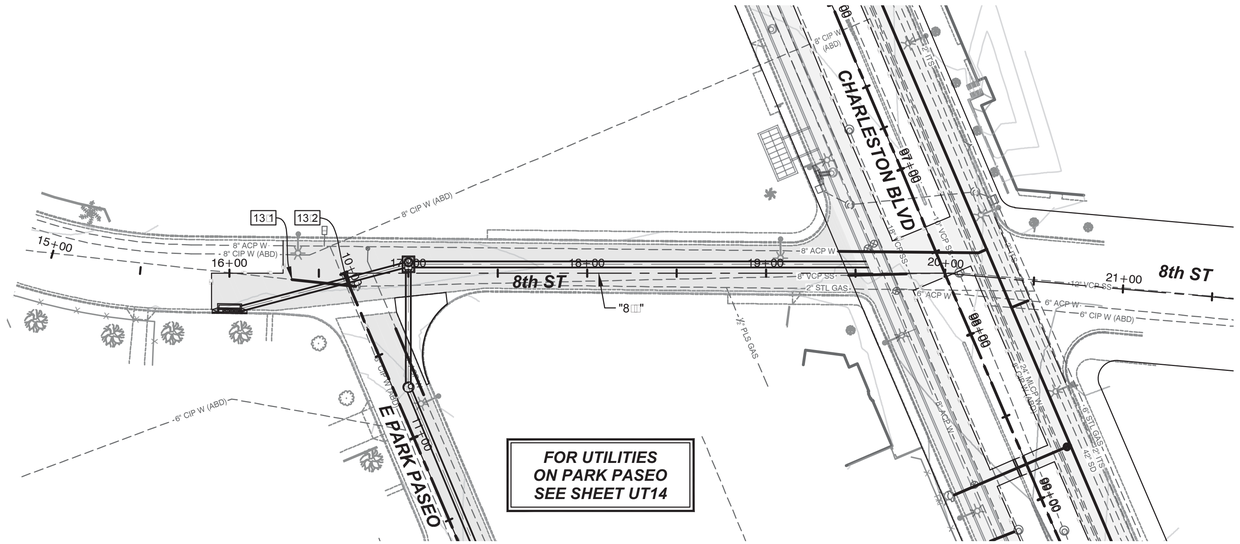
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

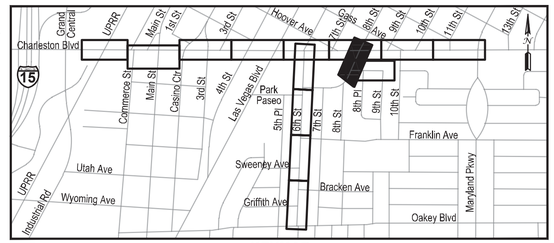
SHEET
UTILITY PLAN
"6□" 24□00 TO "6□" 30□00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT12
OF
DRAWING NO.
107v7368

7097364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A — PROTECT IN PLACE

13.1 — "8th" 16+35.00, 3.54' RT
BEGIN 8" SEWER RELOCATION
CONNECT TO EXISTING 8" SEWER
INSTALL 35.80 L.F. 8" PVC SEWER

13.2 — "8th" 16+70.59, 7.43' RT
END 8" SEWER RELOCATION
CONNECT TO EXISTING SEWER MANHOLE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY

2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE S WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
DATE: April 2, 2019
BID# .
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE:
30% SUBMITTAL

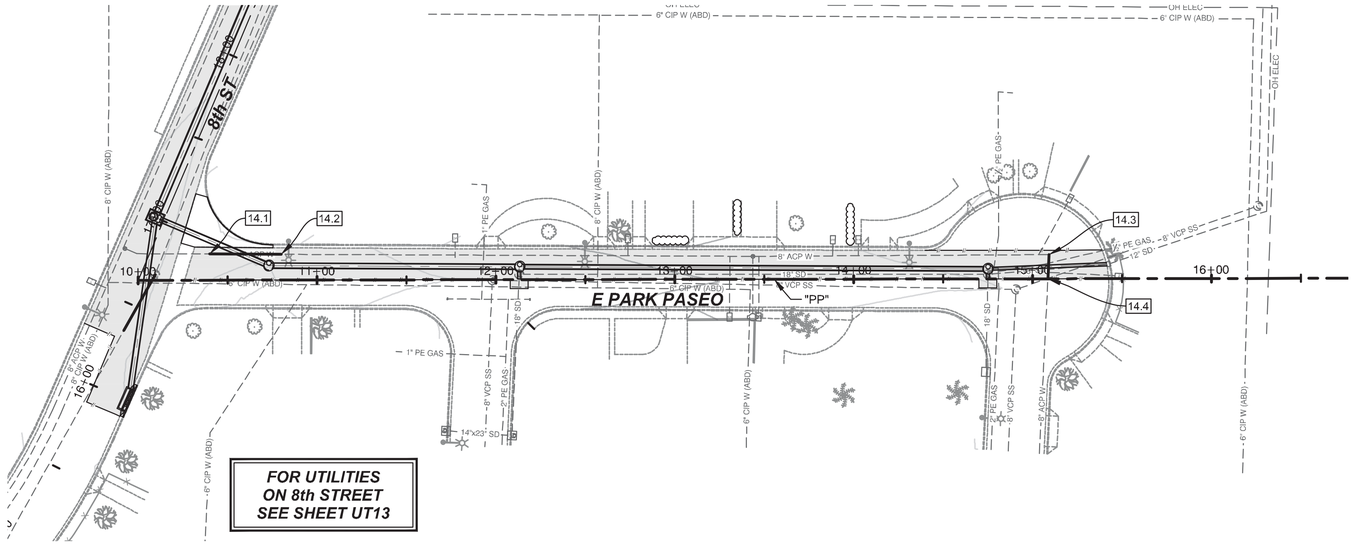
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

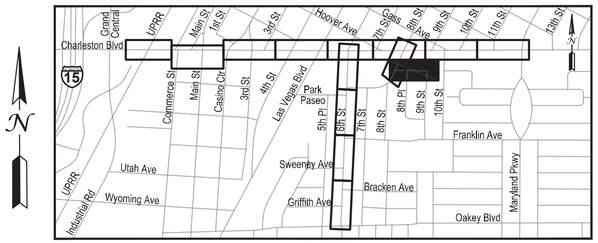
SHEET
UTILITY PLAN
"8 " 15 00 TO "8 " 21 00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
UT13
OF
DRAWING NO.
107v7368

7097364-UT.dwg





KEYMAP

LEGEND

AREA OF PAVEMENT REPLACEMENT

UTILITY REMOVAL NOTES

AS	ABANDON EXISTING SANITARY SEWER
SM	REMOVE EXISTING SANITARY SEWER MANHOLE
SS	REMOVE EXISTING SANITARY SEWER PIPE (SIZE VARIES)
AW	ABANDON EXISTING WATERLINE
RW	REMOVE EXISTING WATERLINE (SIZE VARIES)

UTILITY CONSTRUCTION NOTES

A PROTECT IN PLACE

14.1 "PP" 10+40.00, 14.62' LT
BEGIN 8" WATERLINE RELOCATION
INSTALL 40.00 LF 8" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

14.2 "PP" 10+80.00, 14.38' LT
END 8" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

14.3 "PP" 15+09.30, 13.50' LT
BEGIN 8" WATERLINE RELOCATION
INSTALL 13.52 LF 8" PVC WATERLINE
CONNECT TO EXISTING WATERLINE

14.4 "PP" 15+08.62, 0.00' LT
END 8" WATERLINE RELOCATION
CONNECT TO EXISTING WATERLINE

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA LATEST EDITION AS ADOPTED BY CLARK COUNTY
2. CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL VERTICAL LOCATIONS OF EXISTING UTILITIES AND STORM DRAIN FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
3. ALL EXISTING UTILITIES, STORM DRAIN INFRASTRUCTURE, SIDEWALK, CURB, GUTTER AND STRUCTURES ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

FOR TRENCHES SIX (6) FEET WIDE AND GREATER - DISTRIBUTION:

CONTRACTOR MUST SUBMIT PIPE SUPPORT DETAILS PREPARED BY A NEVADA LICENSED ENGINEER, TO LVVWD ENGINEERING SERVICES BEFORE CONSTRUCTION TO SHOW HOW WATERLINE(S) WILL BE SUPPORTED DURING EXCAVATION AND BACKFILL. IF THE PIPE MATERIAL IS ACP, THE EXPOSED PIPE MUST BE REPLACED WITH DUCTILE IRON PIPE. SUPPORTED PIPE MAY BE EXPOSED FOR NO LONGER THAT 14 DAYS MAXIMUM.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212
BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE:
30% SUBMITTAL

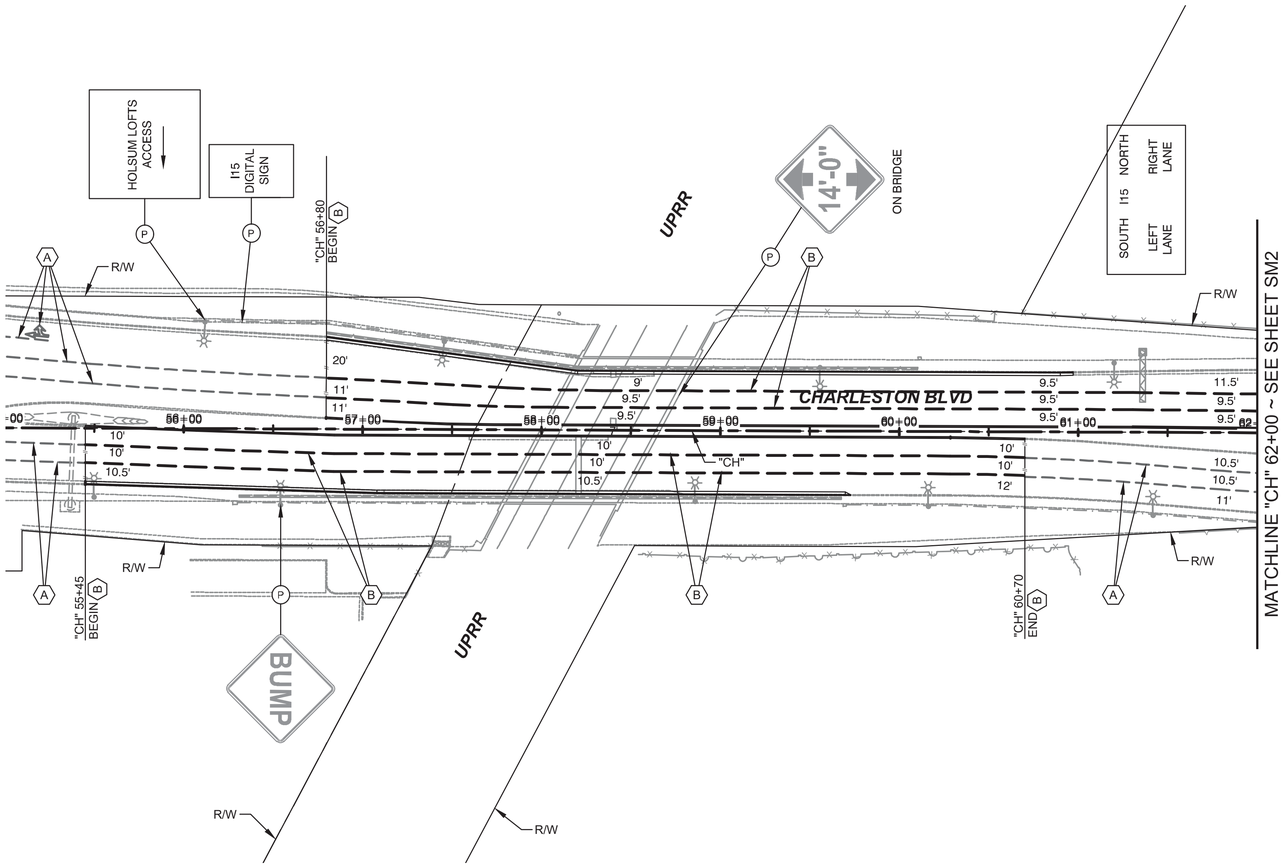
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

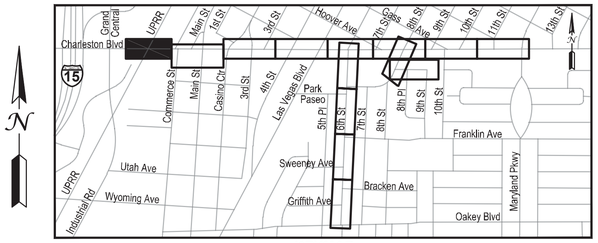
SHEET
UTILITY PLAN
EAST PARK PASEO

30% SUBMITTAL
NOT FOR
CONSTRUCTION

SHEET
UT14
OF
DRAWING NO.
107v7368

7087958-UT.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: 30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

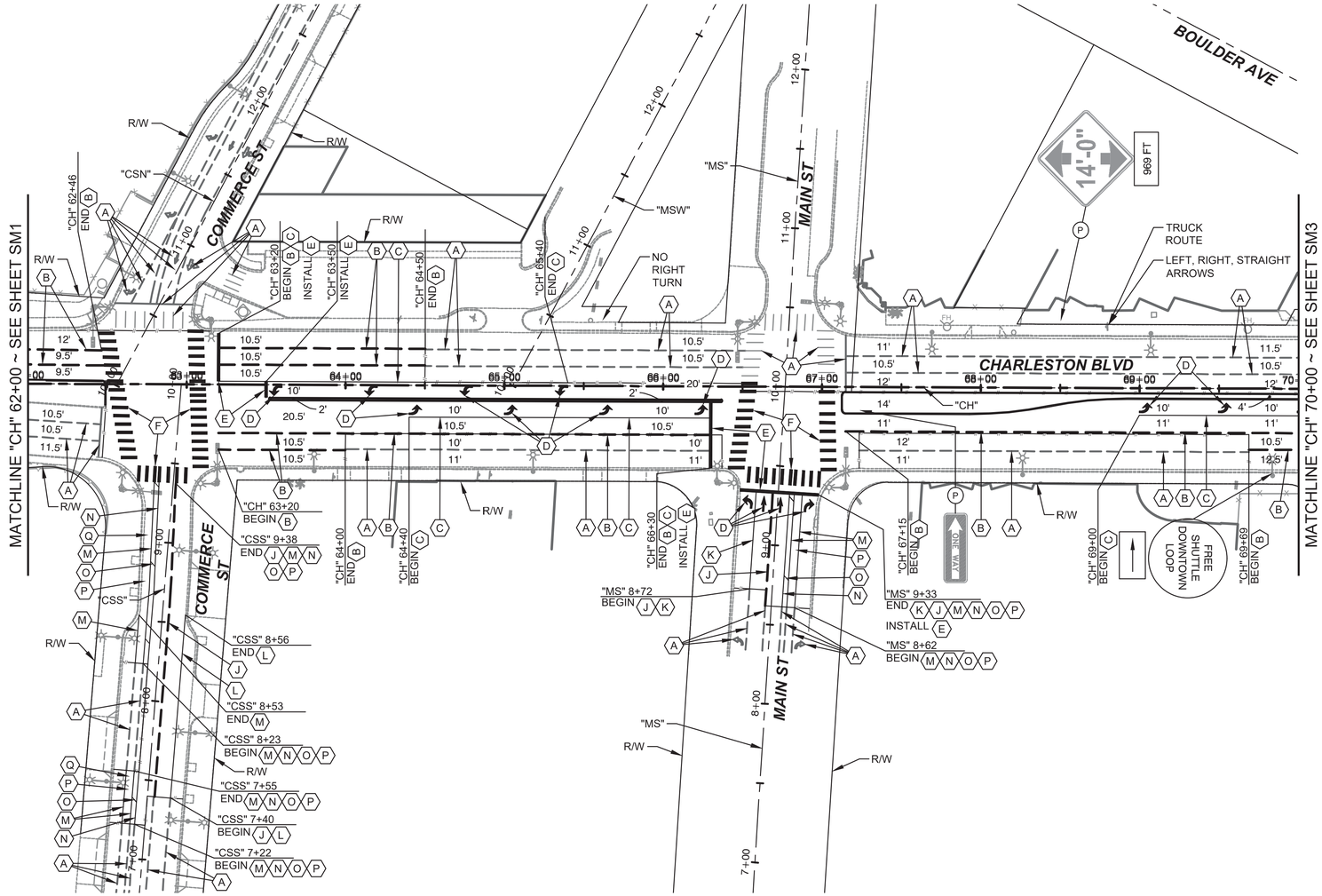
SHEET
SIGNING & STRIPING PLAN
"CH" 55+00 TO "CH" 62+00

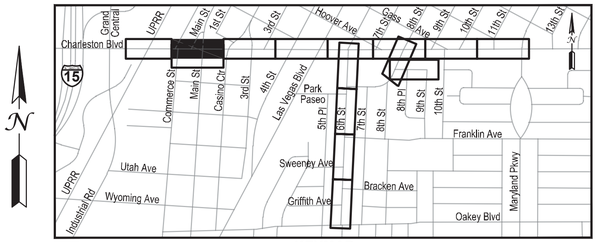
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM1
OF

DRAWING NO.
107v7368

7/26/19 SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(C) INSTALL STORAGE LANE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 246

(D) INSTALL "ARROW" LEGEND USING TYPE II PAVEMENT MARKING FILM

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(J) INSTALL TYPE 4 LANE LINE DELINEATION PER USDCCA STD. DWG. No. 244.1 (POLYUREA WHITE PAINT)

(K) INSTALL STORAGE LANE DELINEATION PER USDCCA STD. DWG. No. 246 WITH 8" LINE (POLYUREA WHITE LINE)

(L) INSTALL 6" WIDE SOLID WHITE LINE (POLYUREA WHITE PAINT)

(M) INSTALL 6" WIDE SOLID WHITE LINE DELINEATION PER USDCCA STD. DWG. No. 244.5 AND/OR USDCCA STD. DWG. No. 244.9 (WHITE FLINT/ENNIS THERMOPLASTIC OR APPROVED EQUAL)

(N) INSTALL 4" BIKE LANE BUFFER LINE (POLYUREA WHITE PAINT)

(O) INSTALL 4" HASH MARK AT 50' SPACING (WATERBORNE PAINT WHITE)

(P) INSTALL GREEN BIKE LANE (MATERIAL TO BE DETERMINED)

(Q) INSTALL ARROW/BIKE LEGEND (MATERIAL TO BE DETERMINED)

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

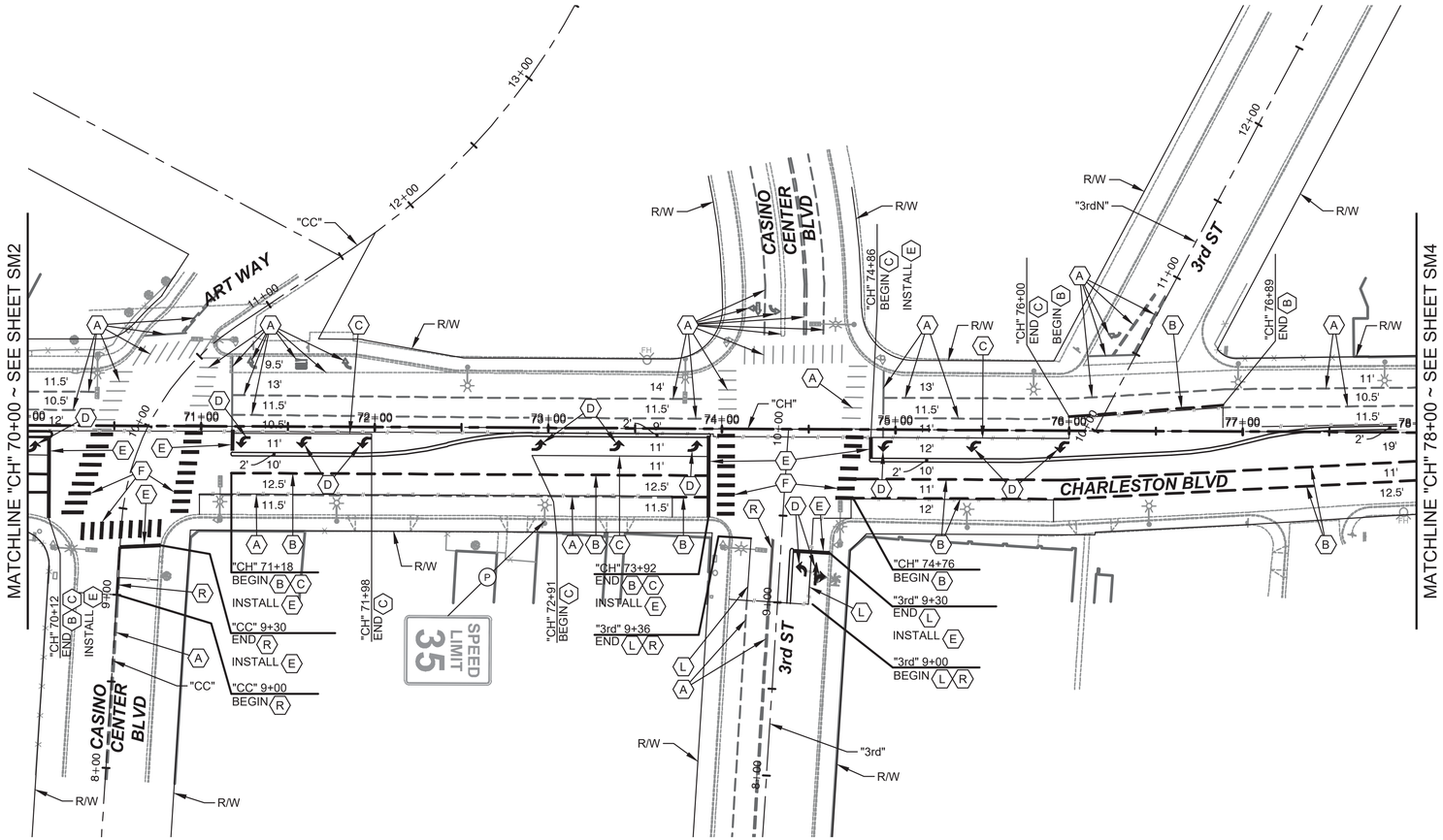
TITLE
FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND

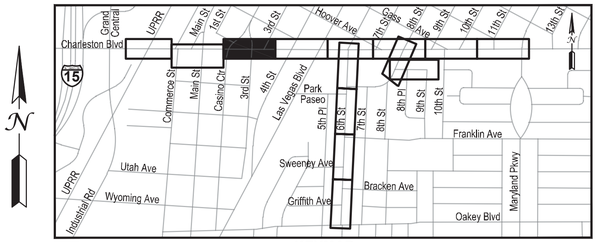
SHEET
SIGNING & STRIPING PLAN "CH" 62+00 TO "CH" 70+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM2
OF
DRAWING NO.
107v7368

708706-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(C) INSTALL STORAGE LANE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 246

(D) INSTALL "ARROW" LEGEND USING TYPE II PAVEMENT MARKING FILM

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(L) INSTALL 6" WIDE SOLID WHITE LINE (POLYUREA WHITE PAINT)

(R) INSTALL TYPE 1 CENTERLINE DELINEATION USING POLYUREA YELLOW PAINT PER USDCCA STD. DWG. No. 244

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .

DATE: April 2, 2019 DESIGNED BY: B. MAHAN

DRAWN BY: G. SHEARER

CHECKED BY: J. GRIEST

SUBMITTAL STAGE:
30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

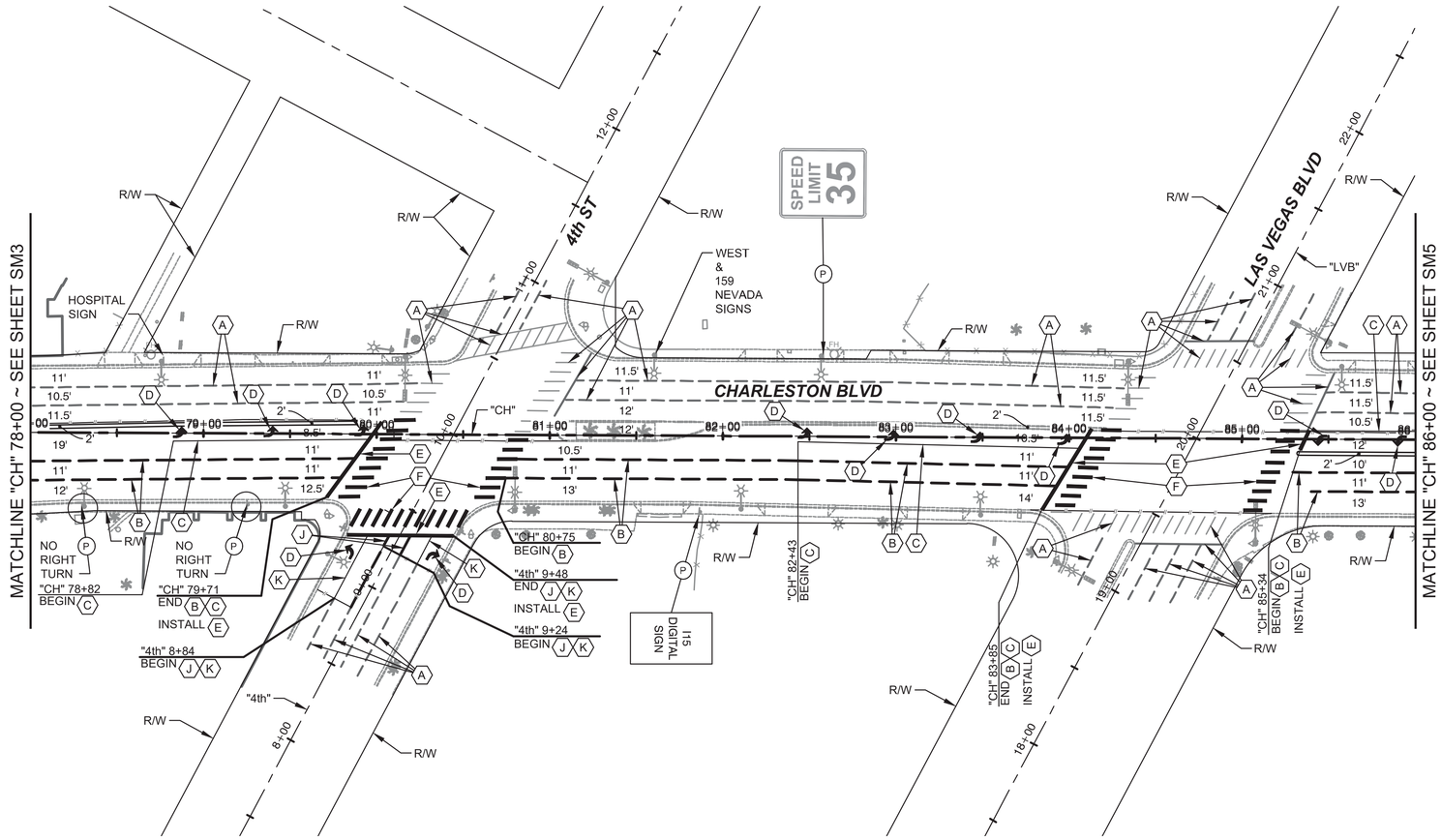
SHEET
SIGNING & STRIPING PLAN
"CH" 70+00 TO "CH" 78+00

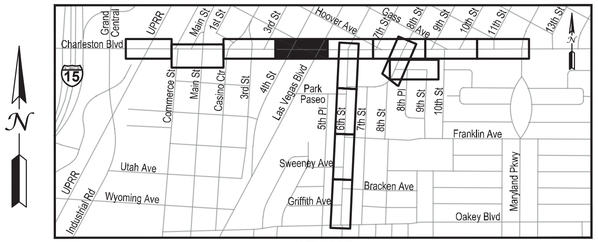
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM3
OF

DRAWING NO.
107v7368

7097s8-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(C) INSTALL STORAGE LANE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 246

(D) INSTALL "ARROW" LEGEND USING TYPE II PAVEMENT MARKING FILM

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(J) INSTALL TYPE 4 LANE LINE DELINEATION PER USDCCA STD. DWG. No. 244.1 (POLYUREA WHITE PAINT)

(K) INSTALL STORAGE LANE DELINEATION PER USDCCA STD. DWG. No. 246 WITH 8" LINE (POLYUREA WHITE LINE)

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H#	72212	BID#	.
DATE:	April 2, 2019	DESIGNED BY:	B. MAHAN
SUBMITTAL STAGE:	**30% SUBMITTAL**	DRAWN BY:	G. SHEARER
		CHECKED BY:	J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

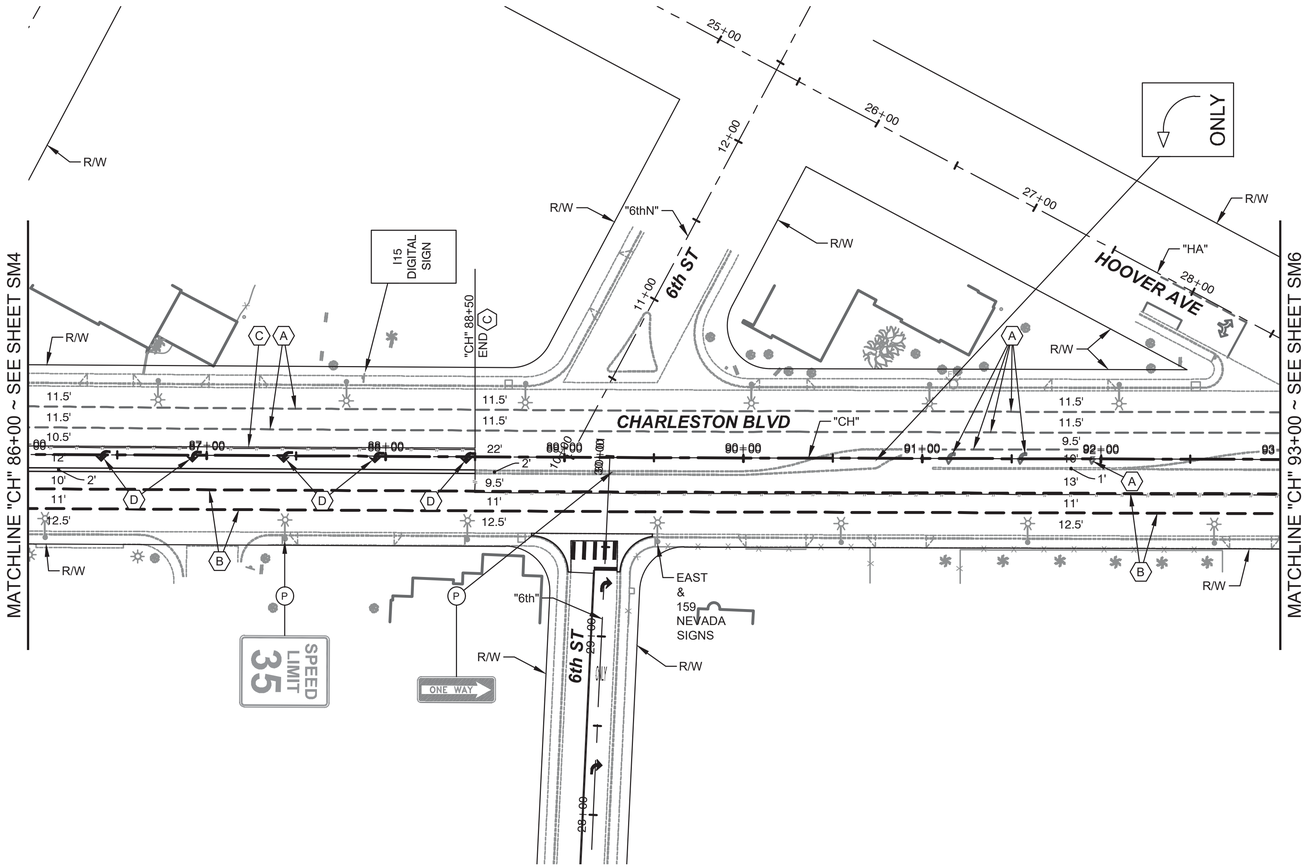
SHEET
SIGNING & STRIPING PLAN
"CH" 78+00 TO "CH" 86+00

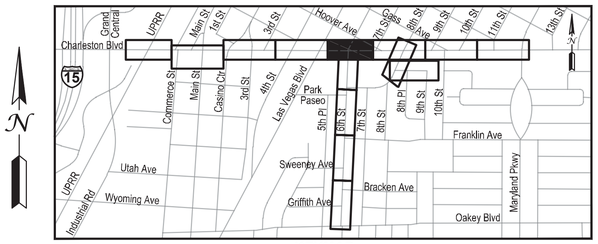
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM4
OF

DRAWING NO.
107v7368

708736-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(C) INSTALL STORAGE LANE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 246

(D) INSTALL "ARROW" LEGEND USING TYPE II PAVEMENT MARKING FILM

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services

Project No._____ First Approved Date_____

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .

DATE: April 2, 2019

DESIGNED BY: B. MAHAN

DRAWN BY: G. SHEARER

CHECKED BY: J. GRIEST

SUBMITTAL STAGE:
30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

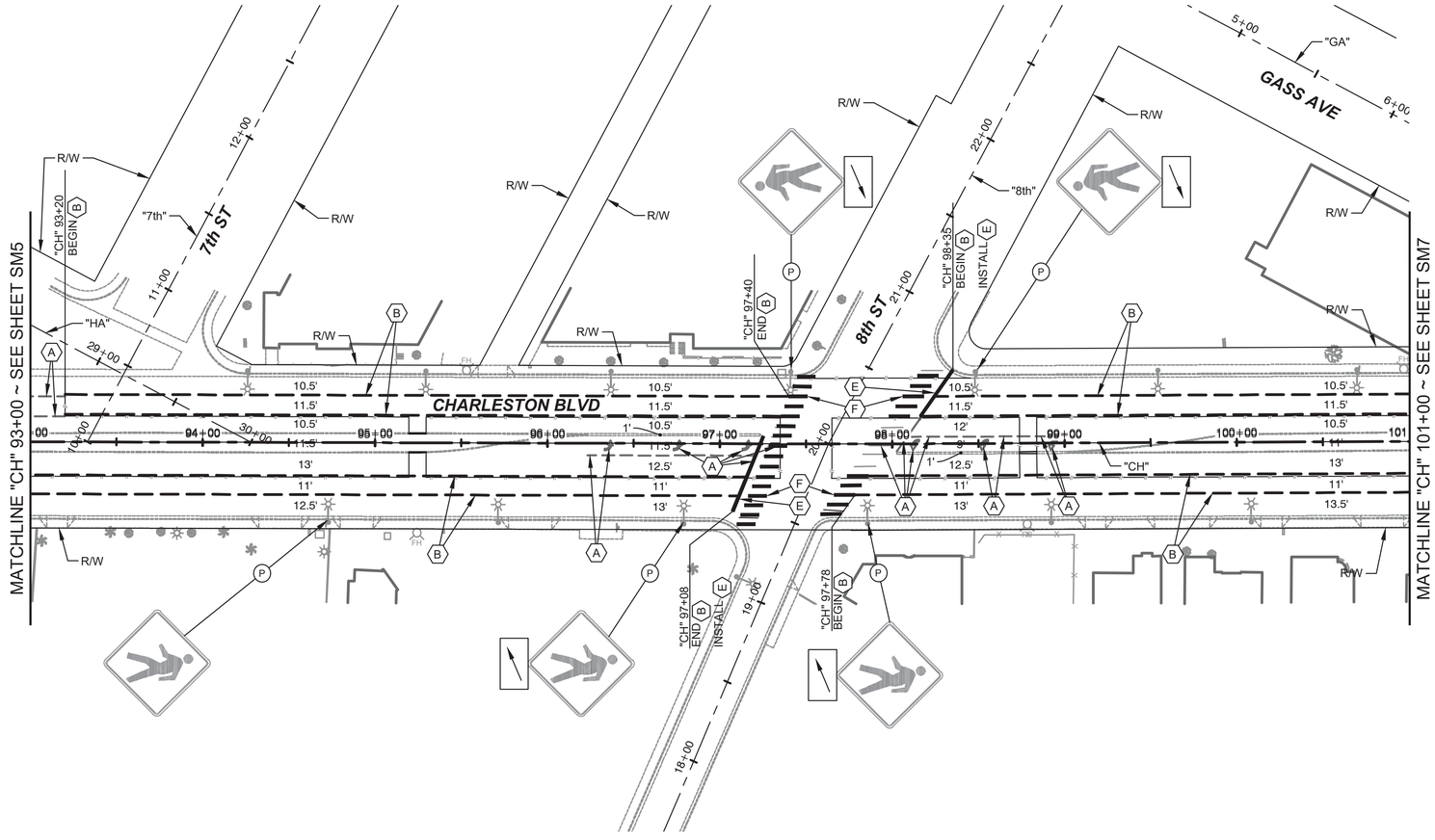
SHEET
SIGNING & STRIPING PLAN
"CH" 86+00 TO "CH" 93+00

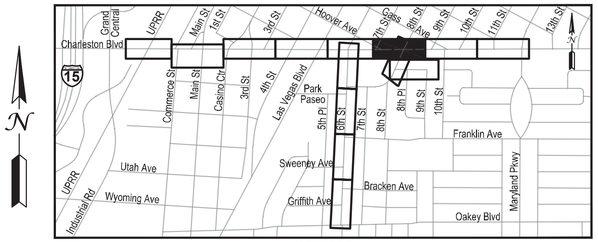
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM5
OF

DRAWING NO.
107v7368

70879B-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services

Project No._____ First Approved Date_____

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .

DATE: April 2, 2019 DESIGNED BY: B. MAHAN

SUBMITTAL STAGE: **30% SUBMITTAL** DRAWN BY: G. SHEARER

CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

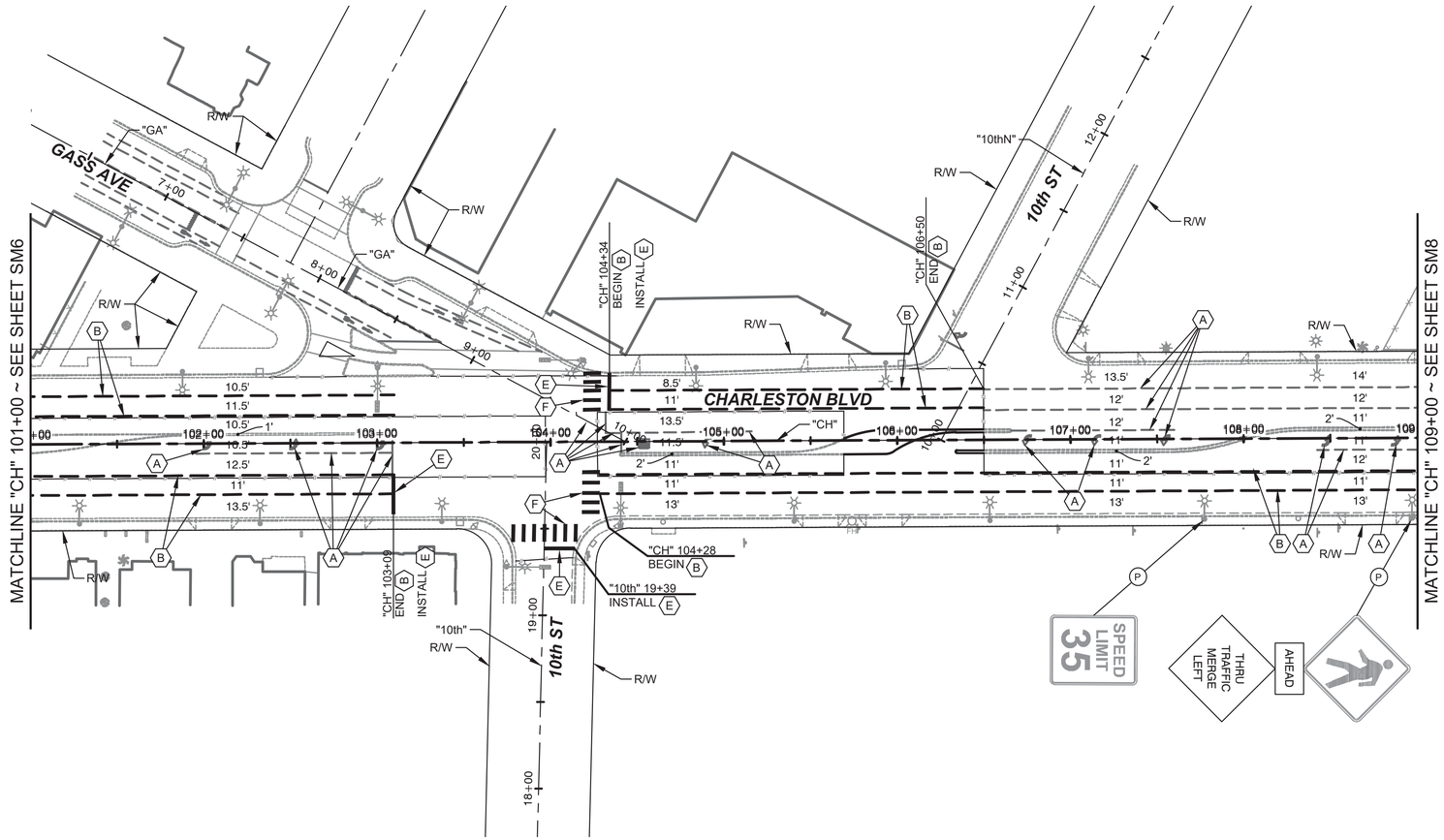
SHEET
SIGNING & STRIPING PLAN
"CH" 93+00 TO "CH" 101+00

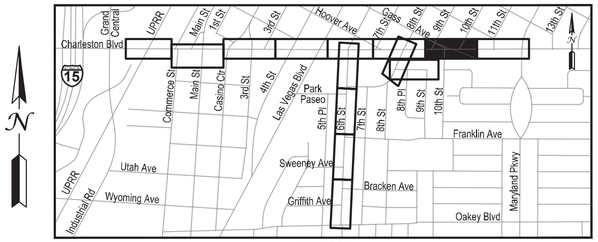
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET **SM6** OF

DRAWING NO. **107v7368**

708736 SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services

Project No._____ First Approved Date_____

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .

DATE: April 2, 2019 DESIGNED BY: B. MAHAN

SUBMITTAL STAGE: DRAWN BY: G. SHEARER

30% SUBMITTAL CHECKED BY: J. GRIEST

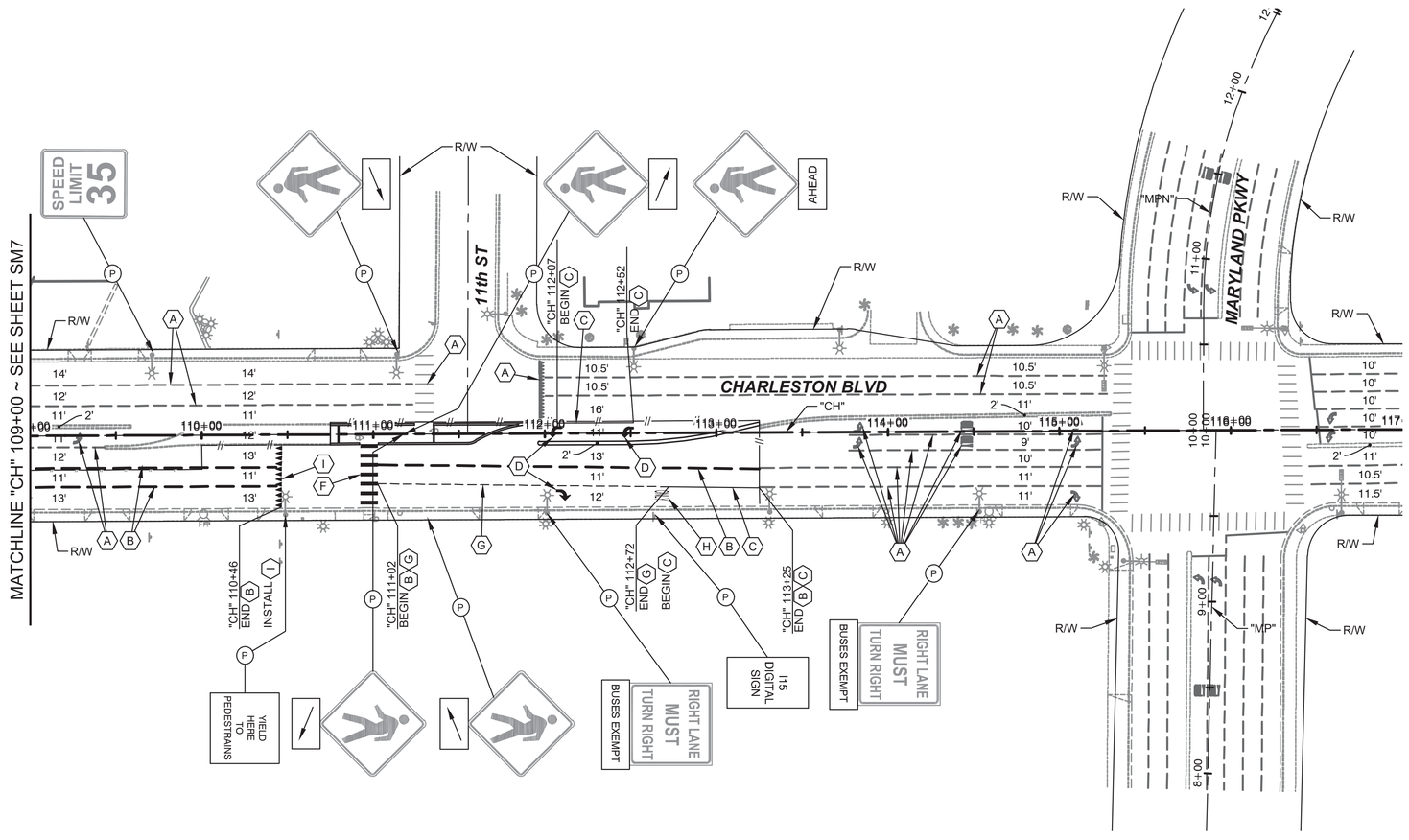
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

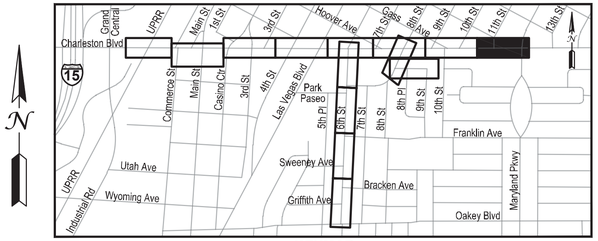
SHEET
SIGNING & STRIPING PLAN
"CH" 101+00 TO "CH" 109+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM7
OF
DRAWING NO.
107v7368

7097sp-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(B) INSTALL TYPE 4 LANE LINE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 244.1

(C) INSTALL STORAGE LANE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 246

(D) INSTALL "ARROW" LEGEND USING TYPE II PAVEMENT MARKING FILM

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(G) INSTALL DROP LANE DELINEATION USING RPM'S PER USDCCA STD. DWG. No. 246.6

(H) INSTALL "ONLY" LEGEND USING TYPE II PAVEMENT MARKING FILM

(I) INSTALL YIELD MARKINGS PER DETAILS ON ???

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
SUBMITTAL STAGE: 30% SUBMITTAL
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

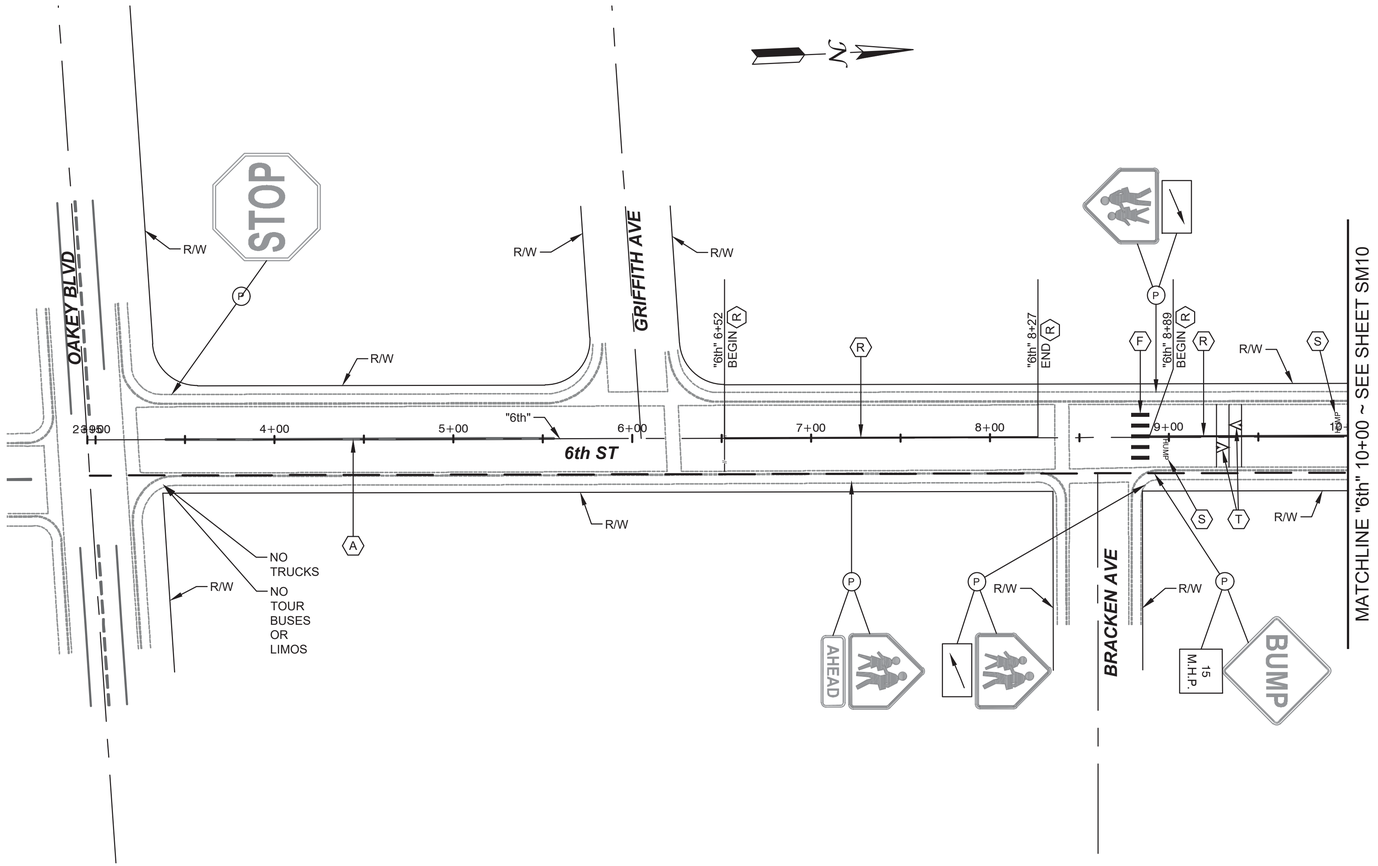
SHEET
SIGNING & STRIPING PLAN
"CH" 109+00 TO "CH" 117+00

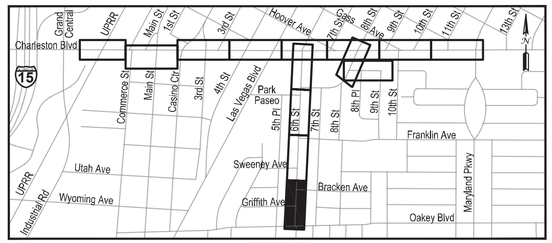
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM8
OF

DRAWING NO.
107v7368

708726-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(R) INSTALL TYPE 1 CENTERLINE DELINEATION USING POLYUREA YELLOW PAINT PER USDCCA STD. DWG. No. 244

(S) INSTALL "HUMP" LEGEND USING TYPE II PAVEMENT MARKING FILM

(T) INSTALL "HUMP ARROWS" LEGEND USING TYPE II PAVEMENT MARKING FILM

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services

Project No._____ First Approved Date_____

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: **30% SUBMITTAL**

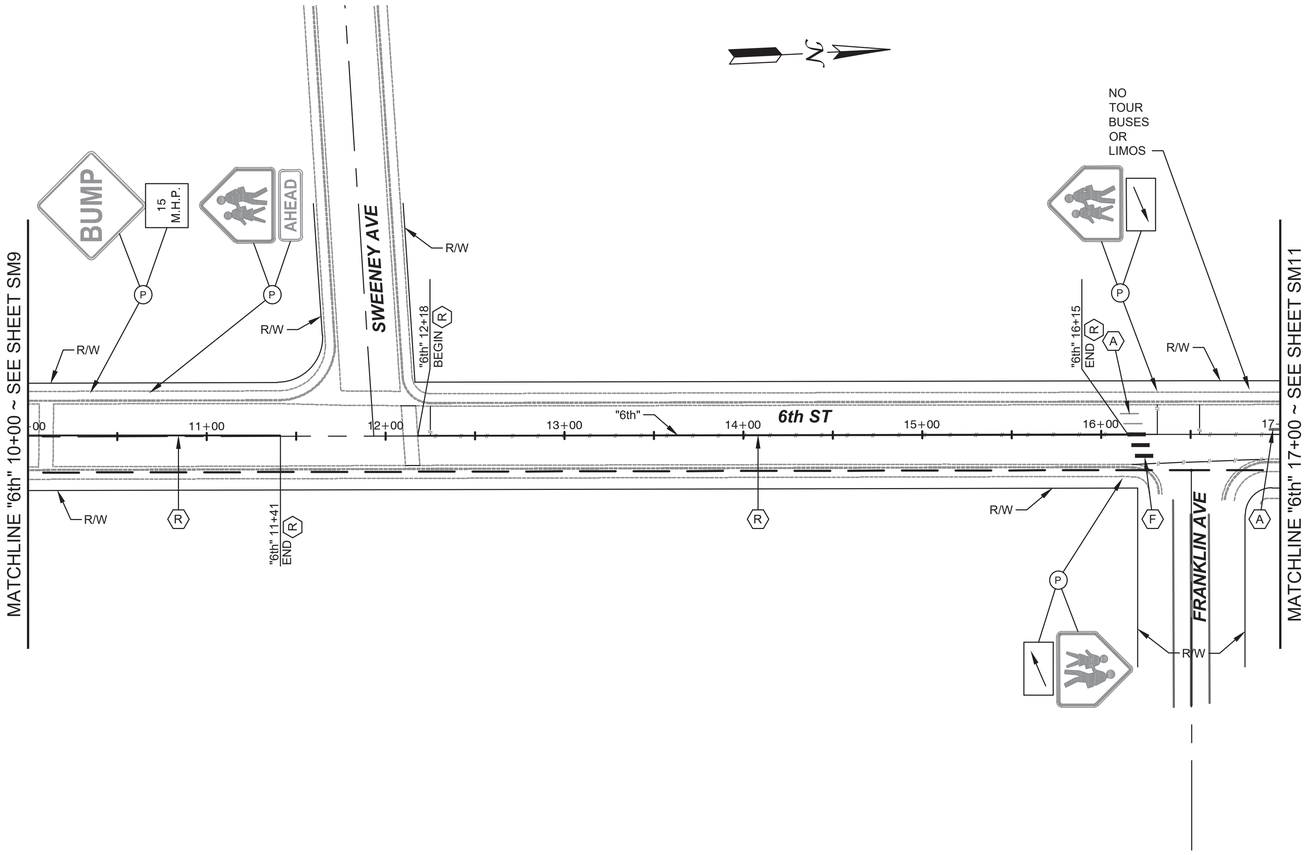
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

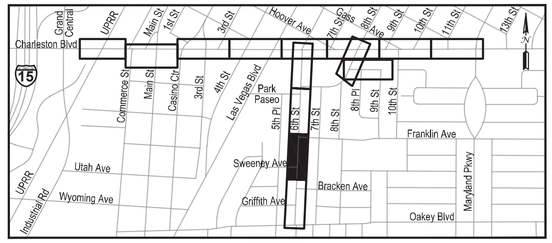
SHEET
SIGNING & STRIPING PLAN
"6th" 2+95 TO "6th" 10+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM9
OF
DRAWING NO.
107v7368

7087/95-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(R) INSTALL TYPE 1 CENTERLINE DELINEATION USING POLYUREA YELLOW PAINT PER USDCCA STD. DWG. No. 244

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services

Project No. _____ First Approved Date _____

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .

DATE: April 2, 2019 DESIGNED BY: B. MAHAN

SUBMITTAL STAGE: **30% SUBMITTAL** DRAWN BY: G. SHEARER

CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND

SHEET
SIGNING & STRIPING PLAN "6th" 10+00 TO "6th" 17+00

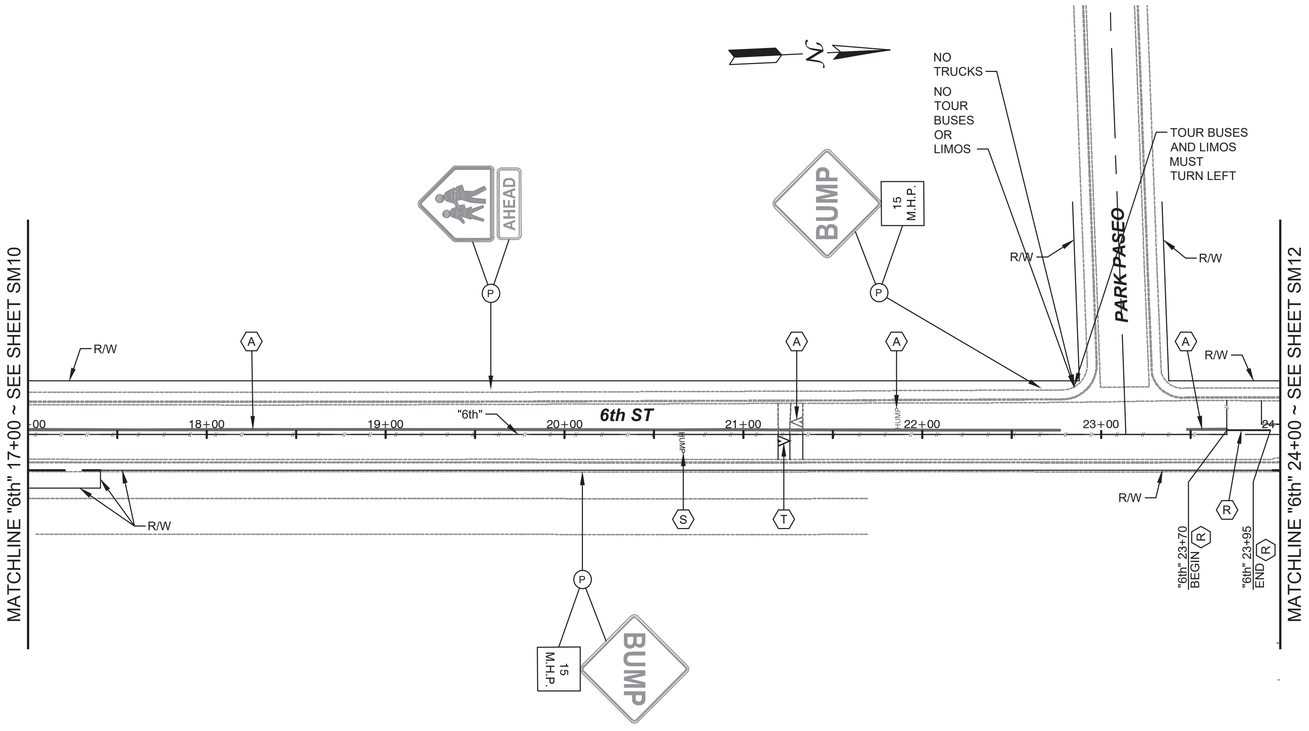
30% SUBMITTAL NOT FOR CONSTRUCTION

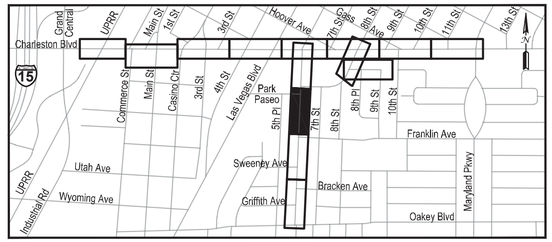
SHEET **SM10**

OF

DRAWING NO. **107v7368**

708798-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(A) PROTECT EXISTING PAVEMENT MARKINGS IN PLACE

(R) INSTALL TYPE 1 CENTERLINE DELINEATION USING POLYUREA YELLOW PAINT PER USDCCA STD. DWG. No. 244

(S) INSTALL "HUMP" LEGEND USING TYPE II PAVEMENT MARKING FILM

(T) INSTALL "HUMP ARROWS" LEGEND USING TYPE II PAVEMENT MARKING FILM

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: April 2, 2019 DESIGNED BY: B. MAHAN
SUBMITTAL STAGE: 30% SUBMITTAL DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

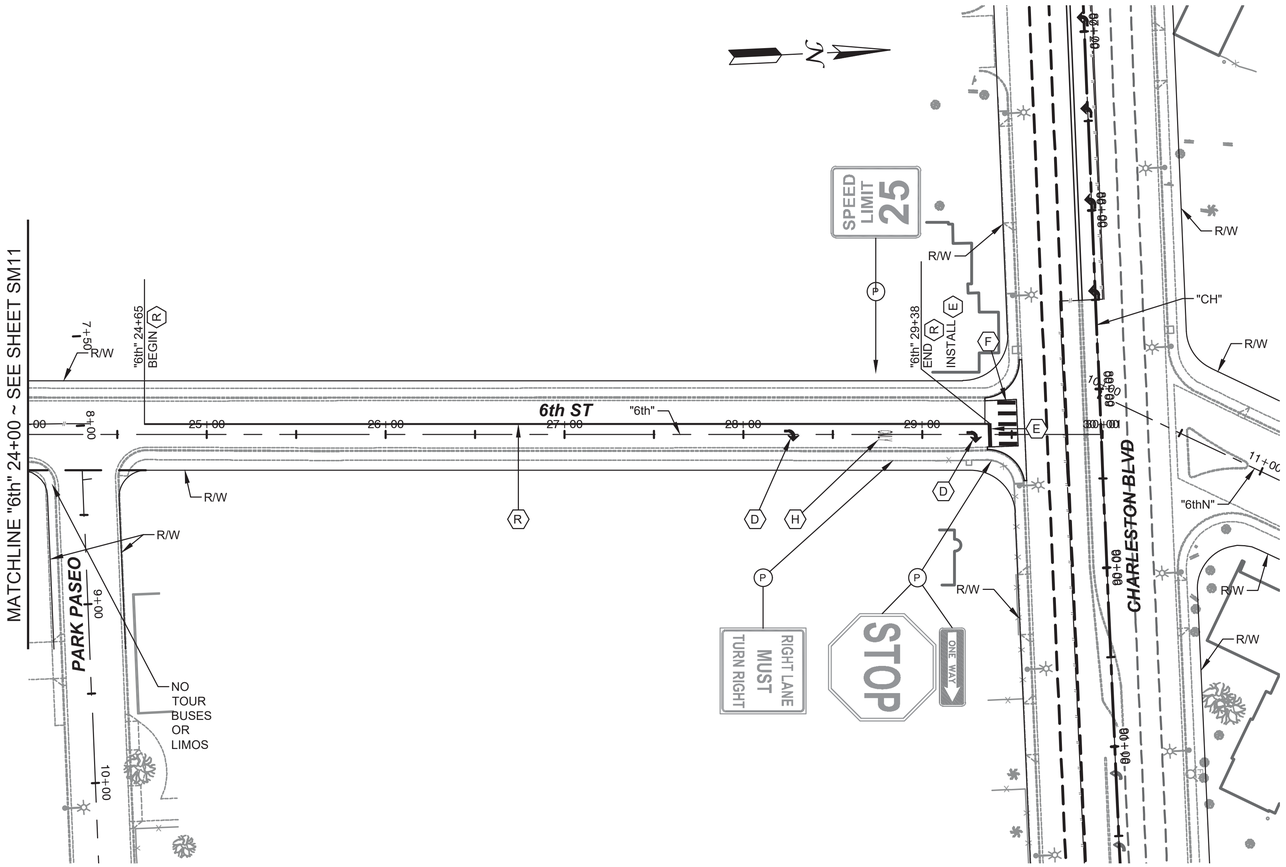
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

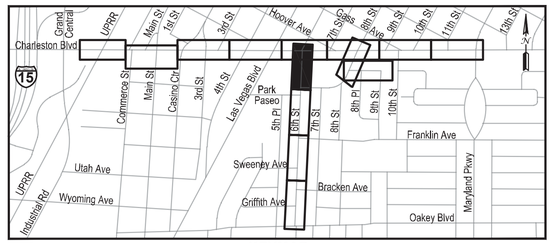
SHEET
SIGNING & STRIPING PLAN
"6th" 17+00 TO "6th" 24+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
SM11
OF
DRAWING NO.
107v7368

708736-SM.dwg





KEYMAP

SIGNING REMOVAL LEGEND

(P) EXISTING SIGN(S) TO REMAIN, PROTECT IN PLACE

STRIPING LEGEND

(D) INSTALL "ARROW" LEGEND USING TYPE II PAVEMENT MARKING FILM

(E) INSTALL 24" WIDE STOP BAR USING TYPE II PAVEMENT MARKING FILM

(F) INSTALL 24" WIDE CROSSWALK MARKINGS USING TYPE II PAVEMENT MARKING FILM PER USDCCA STD. DWG. No. 254

(H) INSTALL "ONLY" LEGEND USING TYPE II PAVEMENT MARKING FILM

(R) INSTALL TYPE 1 CENTERLINE DELINEATION USING POLYUREA YELLOW PAINT PER USDCCA STD. DWG. No. 244

NOTES:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS & SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA (LATEST EDITION) AS ADOPTED BY CLARK COUNTY.
2. ALL LANE DIMENSIONS ARE MEASURED FROM LIP OF GUTTER, FACE OF MEDIAN, OR EDGE OF A.C.
3. CONTRACTOR SHALL WERIFY ALL EXISTING LANE DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY: JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR: CITY OF LAS VEGAS
H# 72212 BID# .
DATE: April 2, 2019
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST
SUBMITTAL STAGE: 30% SUBMITTAL

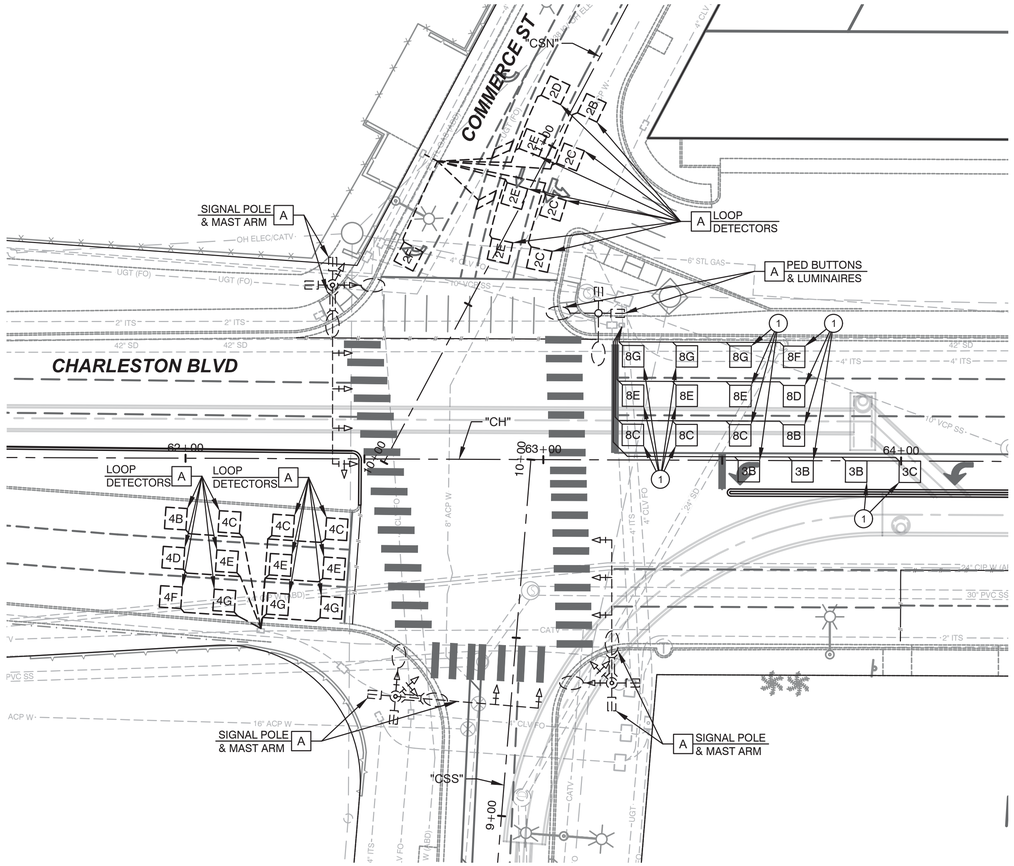
TITLE: FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

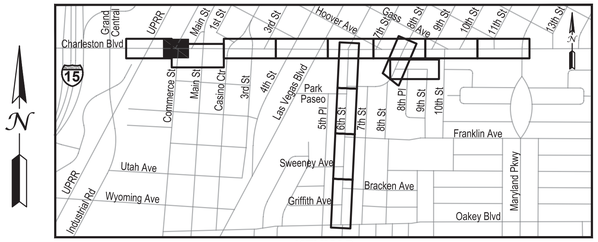
SHEET: SIGNING & STRIPING PLAN
"6th" 24+00 TO "6th" 30+00

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET SM12
OF
DRAWING NO. 107v7368

7087/98-SM.dwg





KEYMAP

LEGEND

A PROTECT IN PLACE

LOOP REPLACEMENT NOTES

(1) FURNISH AND INSTALL 6'x6' MULTI LOOP SYSTEM

LOOP DETECTOR & PULLBOX NOTES

1. CONTRACTOR TO MAINTAIN EXISTING LOOP LEAD-IN CABLES FROM CONTROLLER TO EXISTING PULLBOX.
2. CONTRACTOR SHALL DISCONNECT EXISTING LOOP DETECTORS AT THE PULLBOX AND SPLICE NEW LOOP DETECTORS INTO EXISTING LOOP LEAD-IN CABLES IN THE EXISTING PULLBOX.

CONDUIT NOTE

CONDUIT LAYOUT IS DIAGRAMMATIC ONLY. INSTALL CONDUIT TO AVOID EXISTING UTILITIES AND WITHIN THE RIGHT-OF-WAY AND IN A SINGLE TRENCH WHERE POSSIBLE. CONTRACTOR TO VERIFY EXISTING CONDUIT RUNS.

ITS (FAST) NOTES

1. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS
H# 72212 BID# -
DATE: March 19, 2019
SUBMITTAL STAGE: **30% SUBMITTAL**
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEAHER
CHECKED BY: J. GRIEST

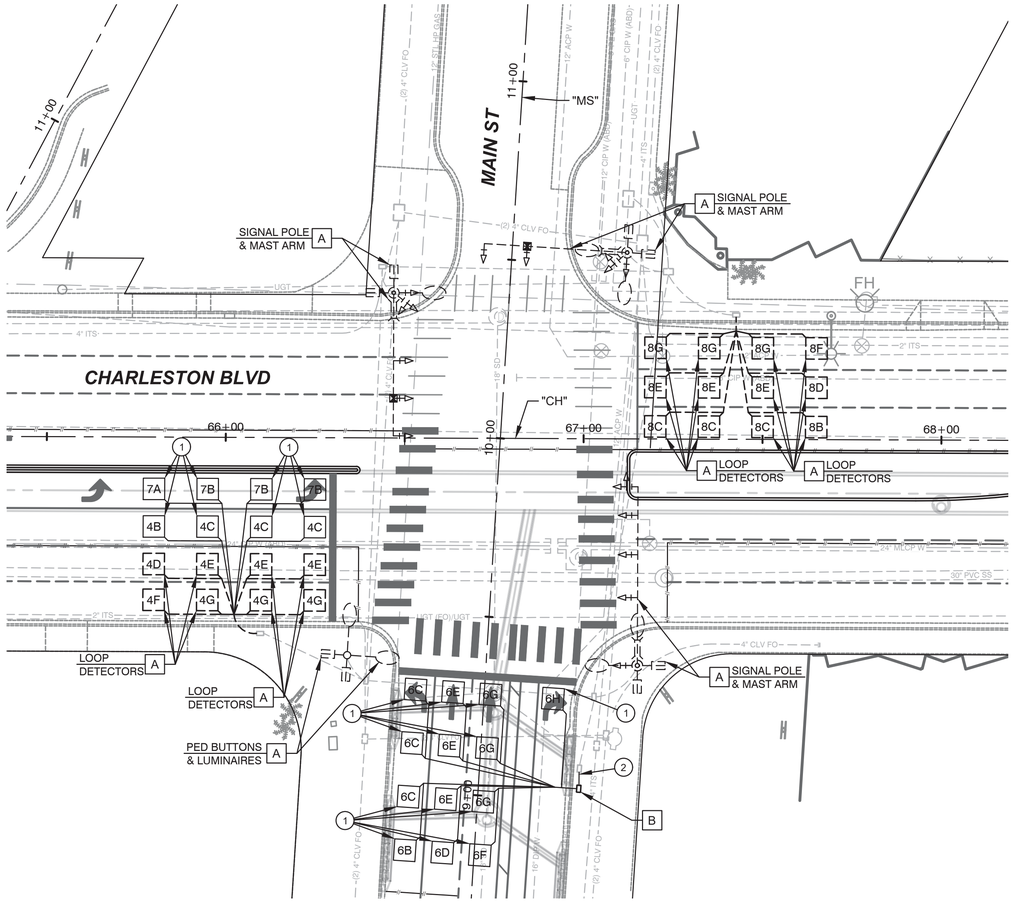
TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

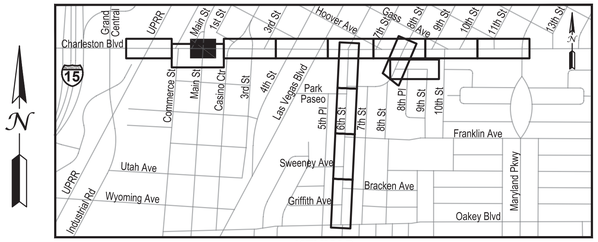
SHEET
LOOP REPLACEMENT PLAN
CHARLESTON BLVD & COMMERCE ST

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
TS1
OF
DRAWING NO.
107v7368

7/30/19 TS.dwg





KEYMAP

LEGEND

- A — PROTECT IN PLACE
- B — No. 5 PULLBOX (MARKED "TRAFFIC SIGNAL")

LOOP REPLACEMENT NOTES

1. FURNISH AND INSTALL 6'x6' MULTI LOOP SYSTEM
2. FURNISH AND INSTALL 2" CONDUIT & CONNECT TO EXISTING PULLBOX.

LOOP DETECTOR & PULLBOX NOTES

1. CONTRACTOR TO MAINTAIN EXISTING LOOP LEAD-IN CABLES FROM CONTROLLER TO EXISTING PULLBOX.
2. CONTRACTOR SHALL DISCONNECT EXISTING LOOP DETECTORS AT THE PULLBOX AND SPLICE NEW LOOP DETECTORS INTO EXISTING LOOP LEAD-IN CABLES IN THE EXISTING PULLBOX.

CONDUIT NOTE

CONDUIT LAYOUT IS DIAGRAMMATIC ONLY. INSTALL CONDUIT TO AVOID EXISTING UTILITIES AND WITHIN THE RIGHT-OF-WAY AND IN A SINGLE TRENCH WHERE POSSIBLE. CONTRACTOR TO VERIFY EXISTING CONDUIT RUNS.

ITS (FAST) NOTES

1. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -
DATE: March 19, 2019 DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEAHER
SUBMITTAL STAGE: **30% SUBMITTAL**
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

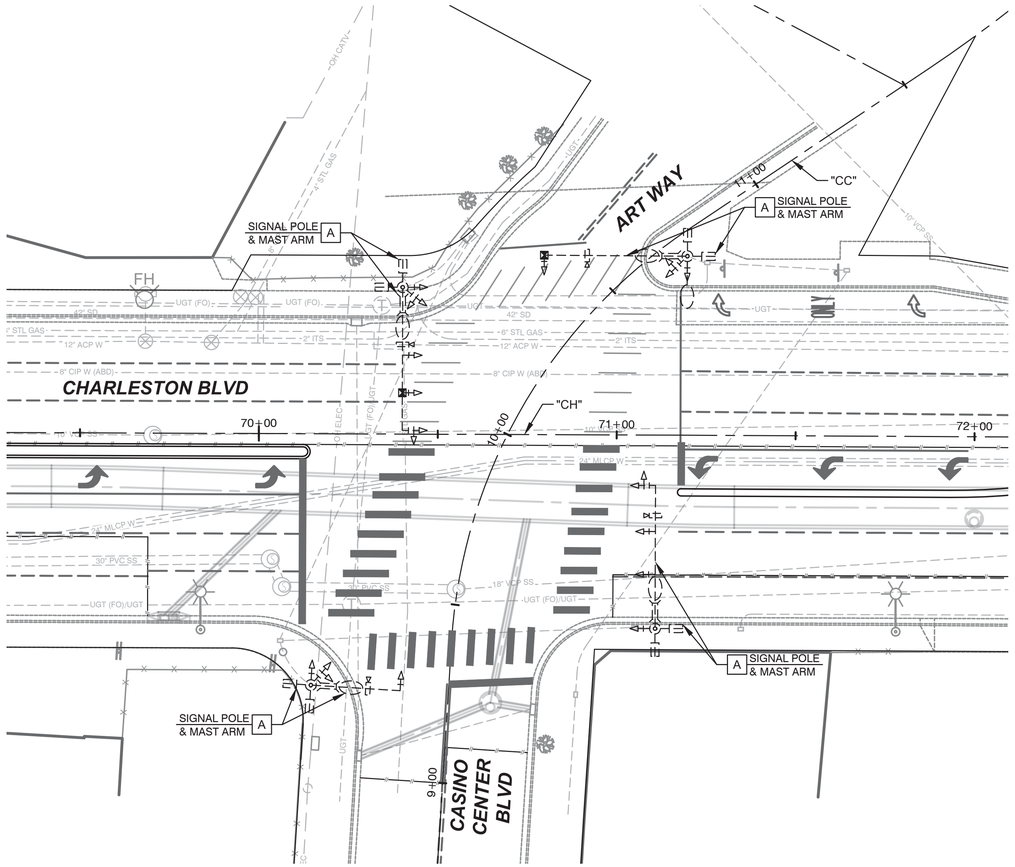
SHEET
LOOP REPLACEMENT PLAN
CHARLESTON BLVD & MAIN ST

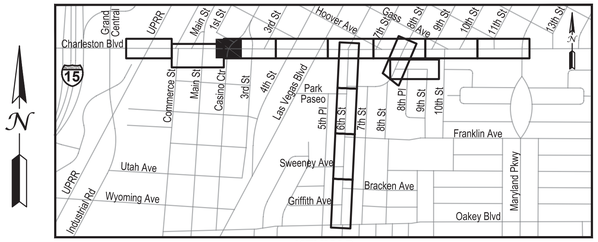
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
TS2
OF

DRAWING NO.
107v7368

708736-TS.dwg





KEYMAP

LEGEND

A PROTECT IN PLACE

CONDUIT NOTE

CONDUIT LAYOUT IS DIAGRAMMATIC ONLY. INSTALL CONDUIT TO AVOID EXISTING UTILITIES AND WITHIN THE RIGHT-OF-WAY AND IN A SINGLE TRENCH WHERE POSSIBLE. CONTRACTOR TO VERIFY EXISTING CONDUIT RUNS.

ITS (FAST) NOTES

1. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No. _____ First Approved Date _____

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CALL BEFORE CONSTRUCTION ⚠		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# .
DATE: March 19, 2019
SUBMITTAL STAGE: **30% SUBMITTAL**
DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEAHER
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH CHARLESTON - MAIN TO MARYLAND

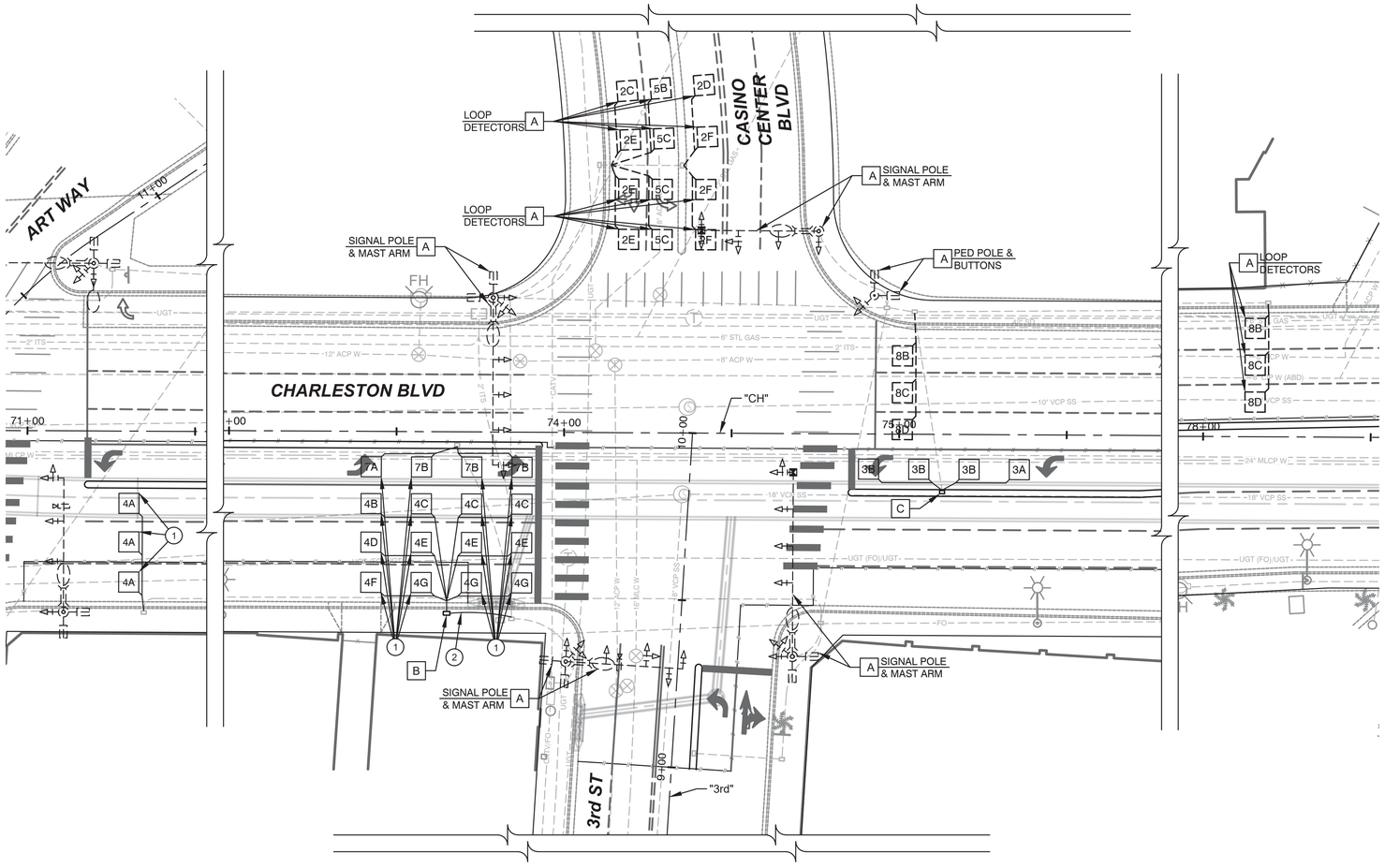
SHEET
LOOP REPLACEMENT PLAN
CHARLESTON BLVD & CASINO CTR BLVD

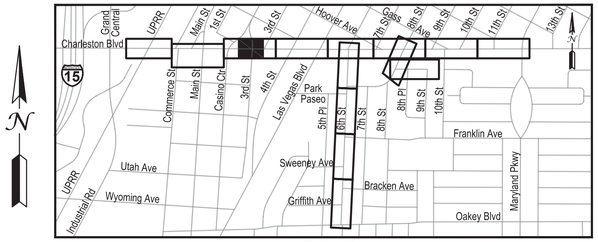
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
TS3
OF

DRAWING NO.
107v7368

708736-TS.dwg





KEYMAP

LEGEND

- A — PROTECT IN PLACE
- B — No. 5 PULLBOX (MARKED "TRAFFIC SIGNAL")
- C — REMOVE & REPLACE EXISTING No. 3½ PULLBOX TO NEW MEDIAN ISLAND (MARKED "TRAFFIC SIGNAL")

LOOP REPLACEMENT NOTES

1. FURNISH AND INSTALL 6'x6' MULTI LOOP SYSTEM
2. FURNISH AND INSTALL 2" CONDUIT & CONNECT TO EXISTING PULLBOX.

LOOP DETECTOR & PULLBOX NOTES

1. CONTRACTOR TO MAINTAIN EXISTING LOOP LEAD-IN CABLES FROM CONTROLLER TO EXISTING PULLBOX.
2. CONTRACTOR SHALL DISCONNECT EXISTING LOOP DETECTORS AT THE PULLBOX AND SPLICE NEW LOOP DETECTORS INTO EXISTING LOOP LEAD-IN CABLES IN THE EXISTING PULLBOX.

CONDUIT NOTE

CONDUIT LAYOUT IS DIAGRAMMATIC ONLY. INSTALL CONDUIT TO AVOID EXISTING UTILITIES AND WITHIN THE RIGHT-OF-WAY AND IN A SINGLE TRENCH WHERE POSSIBLE. CONTRACTOR TO VERIFY EXISTING CONDUIT RUNS.

ITS (FAST) NOTES

1. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -

DATE: March 19, 2019

DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEARER
CHECKED BY: J. GRIEST

SUBMITTAL STAGE:
30% SUBMITTAL

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

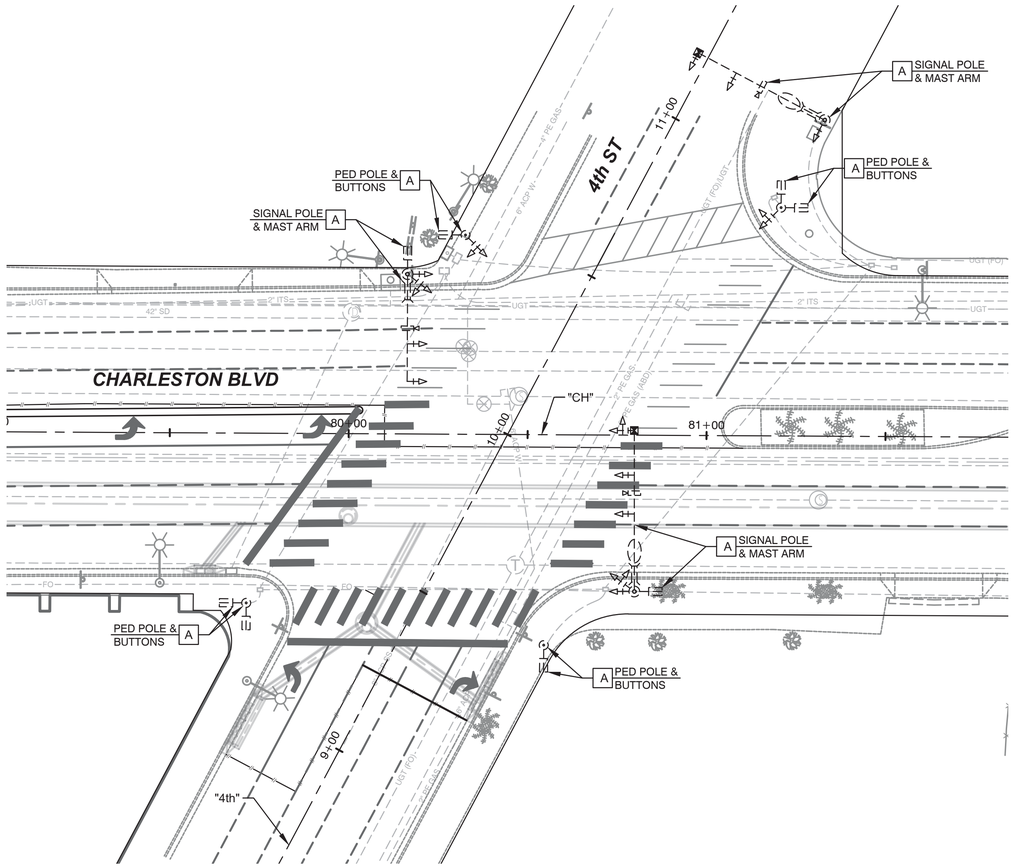
SHEET
LOOP REPLACEMENT PLAN
CHARLESTON BLVD & 3rd ST

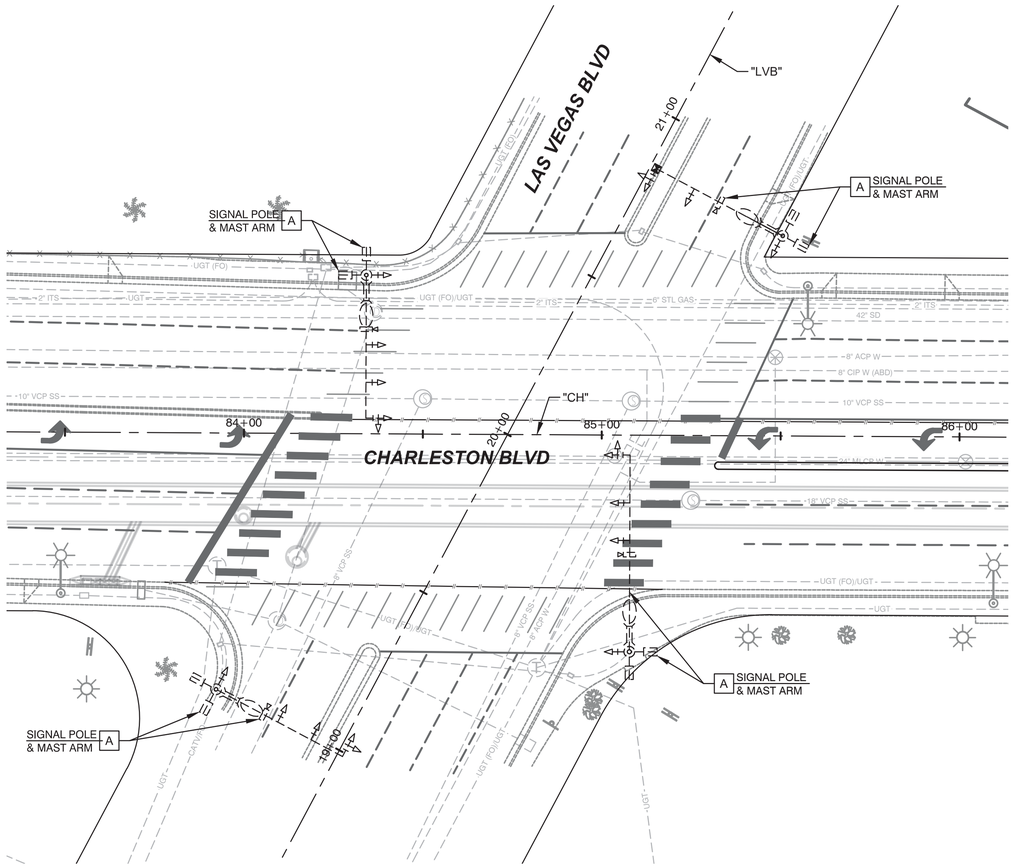
30% SUBMITTAL NOT FOR CONSTRUCTION

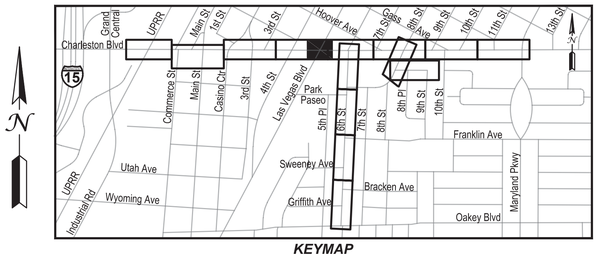
SHEET
TS4
OF

DRAWING NO.
107v7368

7087/08-TS.dwg


A SIGNAL POLE & MAST ARM
A PED POLE & BUTTONS
4th ST
11+00
CHARLESTON BLVD
80+00
10+00
"CH"
81+00
9+00
"4th"
42" SD
2" ITS
UGT
UGT (PO)
6" ADSP W
4" PE GAS
8" PE GAS
8" PE GAS (ABD)
ADJUST (PO) MST
ADJUST MST
ADJUST MH
ADJUST VLT
ADJUST VLT (PO)
ADJUST VLT (PO) MST
ADJUST VLT MST
ADJUST VLT MST (PO)
ADJUST VLT MST (PO) MST
ADJUST VLT MST MST
ADJUST VLT MST MST (PO)
ADJUST VLT MST MST (PO) MST
ADJUST VLT MST MST MST
ADJUST VLT MST MST MST (PO)
ADJUST VLT MST MST MST (PO) MST
ADJUST VLT MST MST MST MST
ADJUST VLT MST MST MST MST (PO)
ADJUST VLT MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST
ADJUST VLT MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO)
ADJUST VLT MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST MST (PO) MST
ADJUST VLT MST





KEYMAP

LEGEND

A PROTECT IN PLACE

CONDUIT NOTE

CONDUIT LAYOUT IS DIAGRAMMATIC ONLY. INSTALL CONDUIT TO AVOID EXISTING UTILITIES AND WITHIN THE RIGHT-OF-WAY AND IN A SINGLE TRENCH WHERE POSSIBLE. CONTRACTOR TO VERIFY EXISTING CONDUIT RUNS.

ITS (FAST) NOTES

1. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

APPROVED FOR CONSTRUCTION
Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -

DATE: March 19, 2019 DESIGNED BY: B. MAHAN

SUBMITTAL STAGE: **30% SUBMITTAL** DRAWN BY: G. SHEAHER

CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

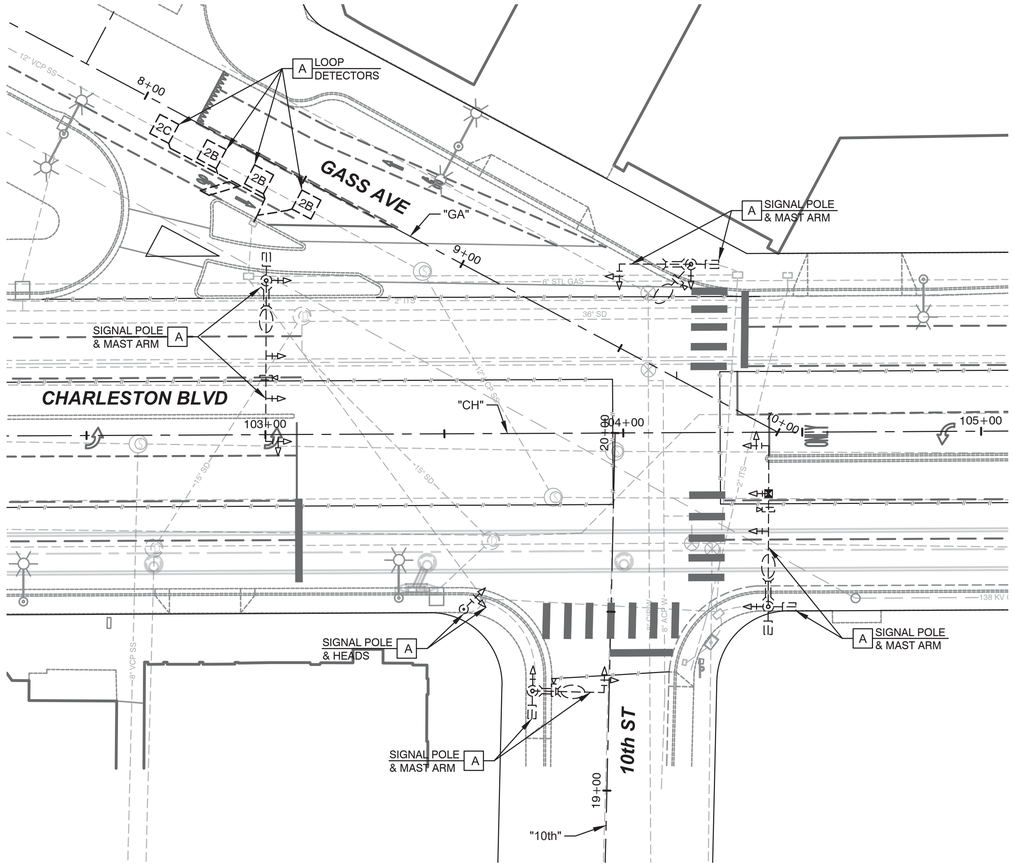
SHEET
LOOP REPLACEMENT PLAN
CHARLESTON BLVD & LAS VEGAS BLVD

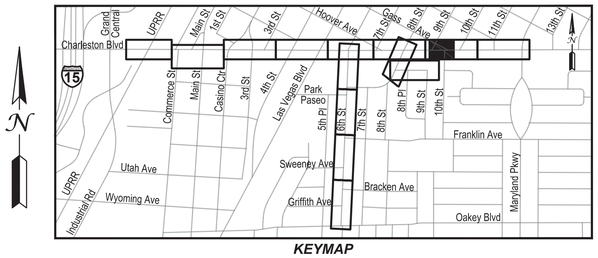
30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
TS6
OF

DRAWING NO.
107v7368

7067p6-TS.dwg





KEYMAP

LEGEND

A PROTECT IN PLACE

CONDUIT NOTE

CONDUIT LAYOUT IS DIAGRAMMATIC ONLY. INSTALL CONDUIT TO AVOID EXISTING UTILITIES AND WITHIN THE RIGHT-OF-WAY AND IN A SINGLE TRENCH WHERE POSSIBLE. CONTRACTOR TO VERIFY EXISTING CONDUIT RUNS.

ITS (FAST) NOTES

1. THE CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION WITHIN THE PROJECT LIMITS THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078.

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services
Project No._____ First Approved Date_____

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

NO.	DATE	REVISIONS
5		
4		
3		
2		
1		

PREPARED BY:
JACOBS
2485 VILLAGE VIEW DRIVE, SUITE 350
HENDERSON, NEVADA 89074
PHONE: 702-369-6175
FAX: 702-369-1107

PREPARED FOR
CITY OF LAS VEGAS

H# 72212 BID# -

DATE: March 19, 2019

SUBMITTAL STAGE:
30% SUBMITTAL

DESIGNED BY: B. MAHAN
DRAWN BY: G. SHEAHER
CHECKED BY: J. GRIEST

TITLE
FLAMINGO BOULDER HIGHWAY NORTH
CHARLESTON - MAIN TO MARYLAND

SHEET
LOOP REPLACEMENT PLAN
CHARLESTON BLVD & 10th ST

30% SUBMITTAL NOT FOR CONSTRUCTION

SHEET
TS7
OF

DRAWING NO.
107v7368

7087/9-TS.dwg