

DEPARTMENT OF PUBLIC WORKS

30% Submittal
"NOT FOR CONSTRUCTION"
December 2016

Mayor:
CAROLYN G. GOODMAN

City Council:
STEVEN D. ROSS (Mayor Pro-Tem)
LOIS TARKANIAN
RICKI Y. BARLOW
STAVROS S. ANTHONY
BOB COFFIN
BOB BEERS

City Manager:
ELIZABETH N. FRETWELL

Director of Public Works:
DAVID N. BOWERS, P.E., P.T.O.E.

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

Funded By:
CITY OF LAS VEGAS



DOWNTOWN PEDESTRIAN AND
BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

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 DATE
d/b/a CENTURYLINK
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# XXXX
SHEETS: CV, GN, ...	

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.

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PREPARED BY

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

BID# ---
DATE: --
SUBMITTAL STAGE:
30% Submittal

PREPARED FOR
CITY OF LAS VEGAS

H# 54616

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

COVER SHEET

SHEET

12/21/16

G1
1 OF 61

DRAWING NO.

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. UTILITIES 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'S 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 AND 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 DESIGNS TO BE APPROVED BY THE CITY, 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 ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FLOW TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
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 THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. 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 UTILITY COMPANY AND THE CITY ENGINEER. WALL NOTES:
16. 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 BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC., TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S). THE SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455 AND SHALL SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.
22. 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 EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 02/03/15

ABBREVIATIONS

AB	AT	INT	INTERSECTION
RR	ABANDONED	IRR	IRREGATION
AC	ASPHALTIC CONCRETE	LT	LENGTH
ACP	ASBESTOS CEMENT PIPE	LT	LINEAL FOOT, LINEAR FEET
ACP	AUTHORIZATION TO ENTER	LT	LEFT
PROPERTY APPROX	APPROXIMATE	LVWD	LAS VEGAS VALLEY WATER
AVAR	AIR VALVE ASSEMBLY	MD	DISTRICT
B/C, BC	BACK OF CURB	MLCP	MANHOLE
BCK	BACK OF CURB RADIUS	MTR	MULTI-LAYER COMPOSITE PIPE
BM	BENCHMARK	MTR	METER
BOT	BOTTOM	NDOT	NEVADA DEPT. OF TRANSPORTATION
BR	BACK OF RAMP	NIS	NOT TO SCALE
C & G	CURB AND GUTTER	NVE	NV ENERGY
CALC'D	CALCULATED	OB	OVERHEAD POWER LINE
CLTV, TV	CABLE TELEVISION	OHU	OVERHEAD UTILITIES
CC	CLARK COUNTY	PH	PULL BOX
CCPW	CLARK COUNTY PUBLIC WORKS	PC	POINT OF CURVATURE
CIPP	CURED-IN-PLACE PIPE	P.P.	POWER POLE
CLM	CENTERLINE	PRC	POINT OF REVERSE CURVE
CLM	CONTROLLED LOW STRENGTH	PT	POINT OF TANGENCY
MATERIAL		R, PL	PROPERTY LINE
CLV	CITY OF LAS VEGAS	R, RADIUS	RT RIGHT
CMP	CORRUGATED METAL PIPE	R/W, R.O.W.	RIGHT OF WAY
CONC	CONCRETE	SCCP	STEEL CYLINDER CONCRETE PIPE
COND	CONDUCTOR	SD	STORM DRAIN
CPM	CAPITAL PROJECT MANAGEMENT	SP	SQUARE FOOT
D, DIA	DIAMETER	SS	SPECIAL PROVISIONS
DCWSCS	DESIGN & CONSTRUCTION STDs FOR WASTEWATER COLLECTION SYSTEMS	SS	SANITARY SEWER
STATIONS		STA	STATION
DC	DECOMPOSED GRANITE	STD	STANDARD
DIP	DUCTILE IRON PIPE	STL	STREET LIGHT
D/W	DRIVEWAY	SV	SPRINKLER VALVE
DRAWING	DRAWING AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 184 AT PAGE 25.	S/W	SIDEWALK
ECR	END OF CURB RETURN (AT B/C)	SWG	SOUTHWEST GAS
ELEC	ELECTRIC	SY	SQUARE YARD
EOP, EP	EDGE OF PAVEMENT	T, TEL	TELEPHONE
EX	EXISTING	TCE	TEMP. CONSTRUCTION EASEMENT
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION	TEMP	TEMPORARY
(INTERCONNECT)		TRANS.	TRANSITION
FC	FACE OF CURB	TRC	TOP OF RAMP CURB
FD	FINISHED GRADE	TS	TRAFFIC SIGNAL
FG, HYD	FIRE HYDRANT	UDACS	UNIFORM DESIGN & CONSTRUCTION STDs FOR POTABLE WATER DISTRIBUTION SYSTEMS
FT	FOOT, FEET	US	UNIFORM STANDARD DRAWING
GA	GAS	USD	UNIFORM STD SPECIFICATIONS
GM	GAS METER	USS	
GW	GAS VALVE	WC	WATER LINE
GUY	GUY WIRE	WM	WHEEL CHAIR
HP	HIGH PRESSURE	WV	WATER METER
		W/	WATER VALVE
		Δ	WITH INCLUDED DELTA ANGLE

BASIS OF BEARINGS

NORTH 27°39'52" EAST, BEING THE BEARING OF THE CENTERLINE OF MAIN STREET BETWEEN COOLIDGE AVENUE AND HOOVER AVENUE AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 184 AT PAGE 25.

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CITY OF LAS VEGAS BENCHMARK: 2LV01-2756
NAVD88 ELEVATION: 613.0214 METERS (2011.22 FEET)

NDOT MON IN TOP OF CURB @NE CORNER OF BONANZA AND MAIN.

RTC/FAST NOTES

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY CLOSURES SHALL BE PWD PERSONS WITH DISABILITY ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SCARBROUGH AT (702) 676-1608 OR ERIC TRAASDAHL AT (702) 676-1633, AT LEAST SEVEN WORKING DAYS IN ADVANCE.
2. THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES SCHEDULE WITH THE TRAFFIC CONTROL PLAN. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY SPECIFIC DURATIONS AND TIMES OF THE DAY FOR ALL PROPOSED BUS STOP CLOSURES. BUS STOP CLOSURES ARE NOT TO EXCEED TWO CONSECUTIVE STOPS AT ONE TIME, OR MORE THAN 1,000 FEET AT A TIME. PERSONS WITH DISABILITIES SHALL HAVE ACCESS TO BUS STOPS. THE CONTRACTOR SHALL PROVIDE A 100 FOOT LONG BY 10 FEET WIDE GRAVELED TURN OUT AT TEMPORARY BUS STOPS.
3. 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 IS TO IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078 CELL OR AT 702-432-5300 GENERAL.
4. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT OR SPLICED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. JESUS "CHUY" MARMOLEJO TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION.

REVISED FEBRUARY 14, 2013

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 SAIL SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCRACHED 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 827 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 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 # 928-3462) 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 PROJECTS 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 JULY 13, 2013

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 FILL 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 ANY 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 CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:
- | | HORIZONTAL | VERTICAL | COMPACTION |
|---------------------------|------------|---------------|------------------|
| A. PAVEMENT AREA SUBGRADE | 0.1" + | +0.0 TO -0.1" | SEE SOILS REPORT |
| B. ENGINEERED FILL | 0.5" + | +0.1 TO -0.1" | SEE SOILS REPORT |
- COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. 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.
9. 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.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

LVVWD STANDARD NOTES

- | LVVWD PROJECT # | XXXXX |
|-----------------|-------|
|-----------------|-------|
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 MANUFACTURERS 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 OWNERS ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNERS 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.

APPROVED FOR CONSTRUCTION	
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER	PROJECT# XXXXX
DATE:	

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. 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.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS.
4. 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.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 302A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
6. 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.
7. 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.
8. 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.
9. 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 28, 2016 (CPM VERSION)

LEGEND

---	CENTERLINE	☑	STORM DRAIN INLET
---	RIGHT OF WAY LINE	☉	STORM DRAIN MH
---	PROPERTY LINE	☉	ELEC. VAULT/CABINET
---	AUTHORIZATION TO ENTER PROPERTY (AEP)	STL	STREET LIGHT PB
---	PATCH / SAWCUT LINE	①	TELEPHONE MH
☼	AREA LIGHT	TEL	TELEPHONE PB
☼	BENCHMARK	TSB	TRAFFIC SIGNAL PB
☼	ELEC. VAULT/CABINET	TV	TV PULLBOX
☼	ELECTRIC MANHOLE	☼	UTILITY POLE
MTA	ELECTRIC METER	☼	UTILITY POLE GUY WIRE
☼	FIRE HYDRANT	☼	UTILITY VAULT
☼	FOUND MONUMENT	☼	WATER VAULT/CABINET
☼	GAS METER	☼	WATER MANHOLE
☼	GAS VALVE	WM	WATER METER
IRR	IRR. CONTROLLER	☼	WATER VALVE
☼	IRR. VALVE		
L	LOOP DETECTOR		
☼	SANITARY SEWER MH		
☼	SET MONUMENT		
☼	SIDEWALK RAMP		
☼	SIGN		

ALIGNMENT ABBREVIATIONS

"3RD"	3RD STREET ALIGNMENT
"BVA"	BONNEVILLE AVENUE ALIGNMENT
"CB"	CHARLESTON BOULEVARD ALIGNMENT
"CLA"	COOLIDGE AVENUE ALIGNMENT
"GA"	GARCES AVENUE ALIGNMENT
"GSA"	GASS AVENUE ALIGNMENT
"HA"	HOOVER AVENUE ALIGNMENT

SHEET INDEX

1	G1	COVER SHEET
2	G2	NOTES, LEGEND, KEY MAP AND INDEX
3-4	HC1-HC2	HORIZONTAL CONTROL PLAN
5-8	TY1-TY4	TYPICAL SECTIONS
9-12	RP1-RP4	REMOVAL PLANS
13-23	R1-R11	ROADWAY PLAN & PROFILE
24-35	PD1-PD12	PROPERTY DETAILS
36-39	T1-T4	SIGNAGE & STRIPING PLANS
40-46	TS1-TS7	TRAFFIC SIGNAL PLANS
47-50	E0-E3	ELECTRICAL PLANS
51-61	L1.00-L2.03	HARDSCAPE & LANDSCAPE PLANS

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



PROJECT VICINITY

NOT TO SCALE

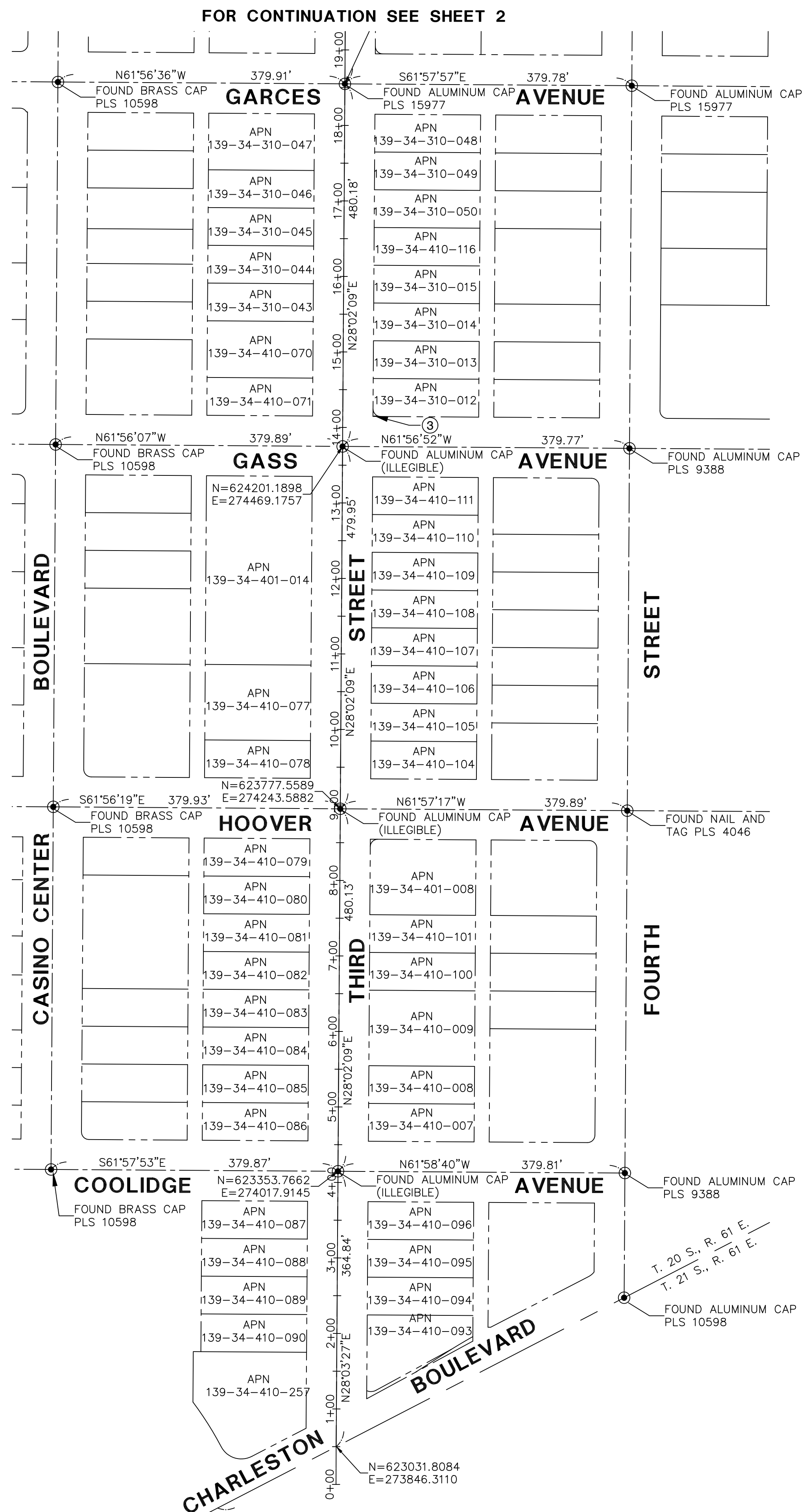
VICINITY MAP

30% Submittal

"NOT FOR CONSTRUCTION"

December 2016

PREPARED BY		DESIGNED BY: MD		DRAWN BY: ND		CHECKED BY: LL	
CITY OF LAS VEGAS		H# 54616		DATE: --		SUBMITTAL STAGE: 30% Submittal	
DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS 3RD STREET-PHASE 2 CHARLESTON TO BONNEVILLE		SHEET		NOT FOR CONSTRUCTION		NOTES, LEGEND, KEY MAP & INDEX	
2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148 PH: (702) 878-7350 WWW.VTVNV.COM		DEPARTMENT OF PUBLIC WORKS 333 N. RANCHO DRIVE LAS VEGAS, NEVADA 89101-0816 702-229-6622		NO. 1		DATE	



BASIS OF BEARINGS AND COORDINATES:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 1983 (CORS 96) EPOCH 2002.0

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

ZONE: LAS VEGAS

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 200,000,000 M (656,166.6667 FTUS)
EASTING AT CENTRAL MERIDIAN: 100,000,000 M (328,083.3333 FTUS)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

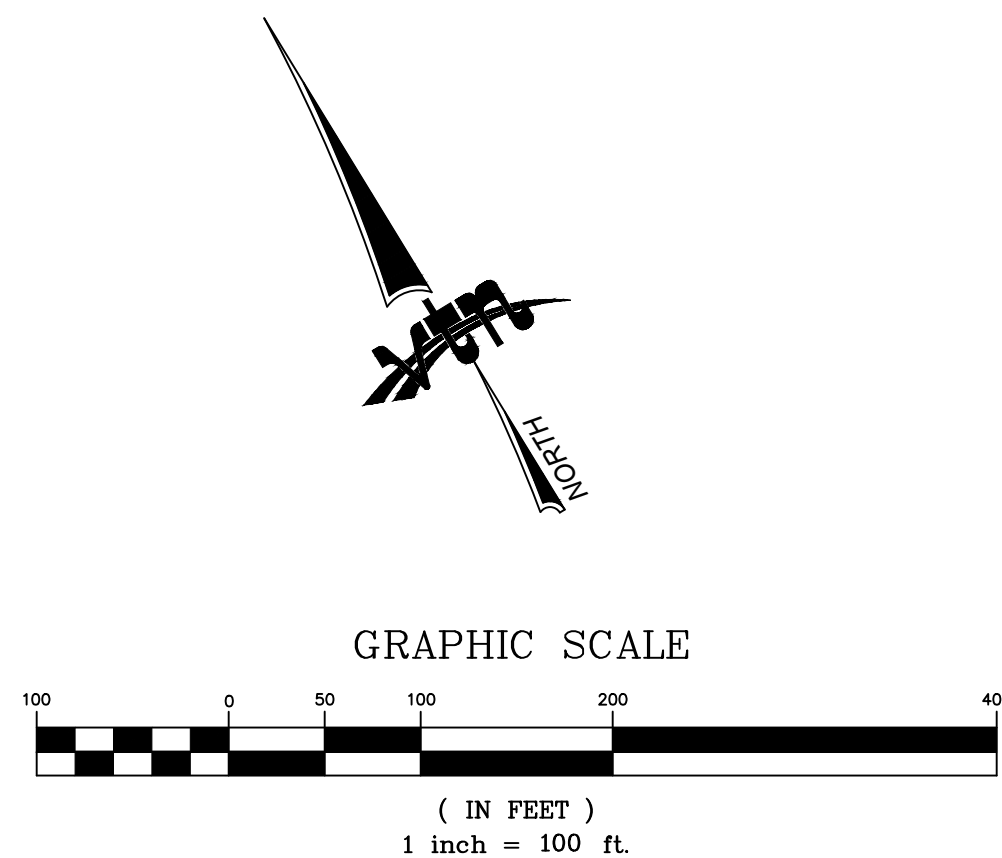
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.

PROJECT BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) (2008 ADJUSTMENT)

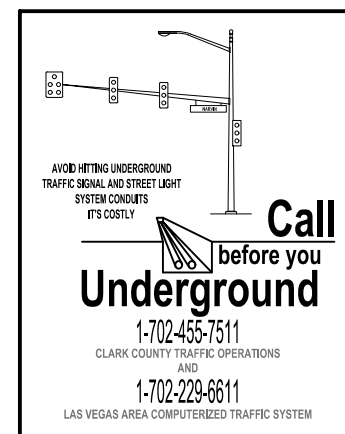
CITY OF LAS VEGAS BENCHMARK: 1LV01-34NW6
NAVD88 ELEVATION: 617.329 METERS (2025.353 FEET)

3" NDOT BRASS CAP IN TOP OF CURB AT SE CORNER OF MAIN AND BRIDGER.

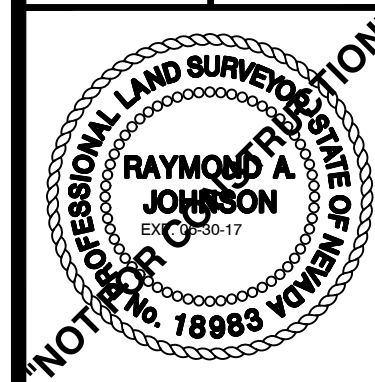


LEGEND

- | | |
|---|-----------------------------|
|  | FOUND MONUMENT AS INDICATED |
|  | SECTION LINE |
|  | QUARTER SECTION LINE |
|  | SIXTEENTH SECTION LINE |
|  | RIGHT-OF-WAY LINE |
|  | STREET CENTERLINE |
|  | ADJOINING PROPERTY LINE |



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



SHEET
HC1
3 OF 61
DRAWING NO.

—

SHEET

**DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE**

HORIZONTAL CONTROL

PREPARED FOR
CITY OF
HH# 54616
DATE: --
SUBMITTAL STAGE:
30% Submittal

PREPARED FOR
CITY OF LAS VEGAS

BID #	----
DESIGNED BY:	MD
DRAWN BY:	ND
CHECKED BY:	LL

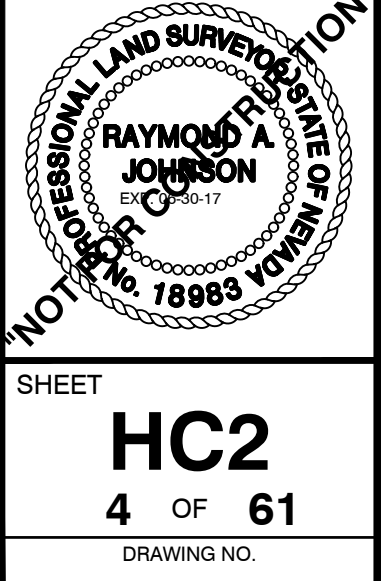
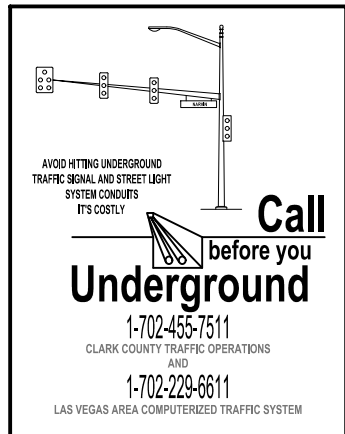
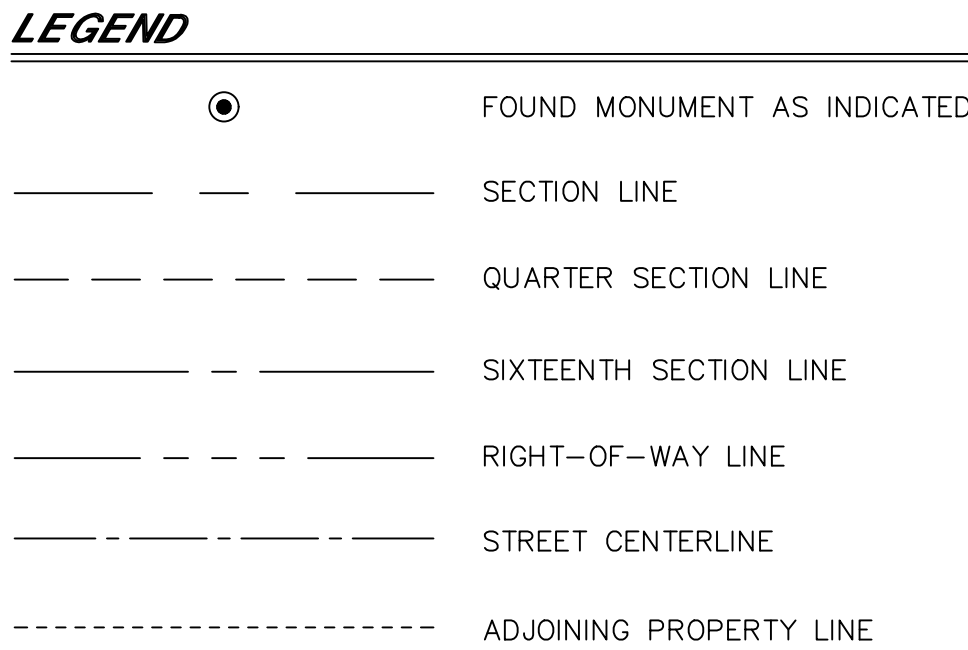
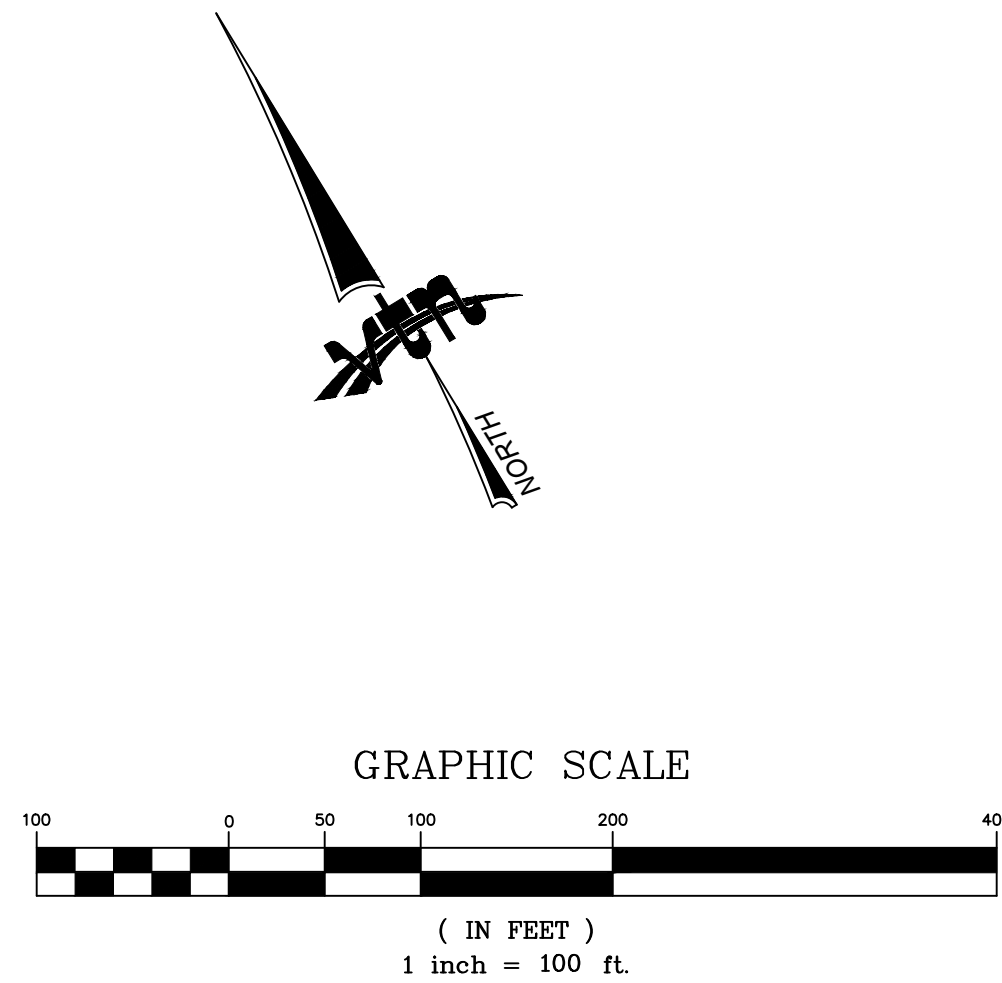
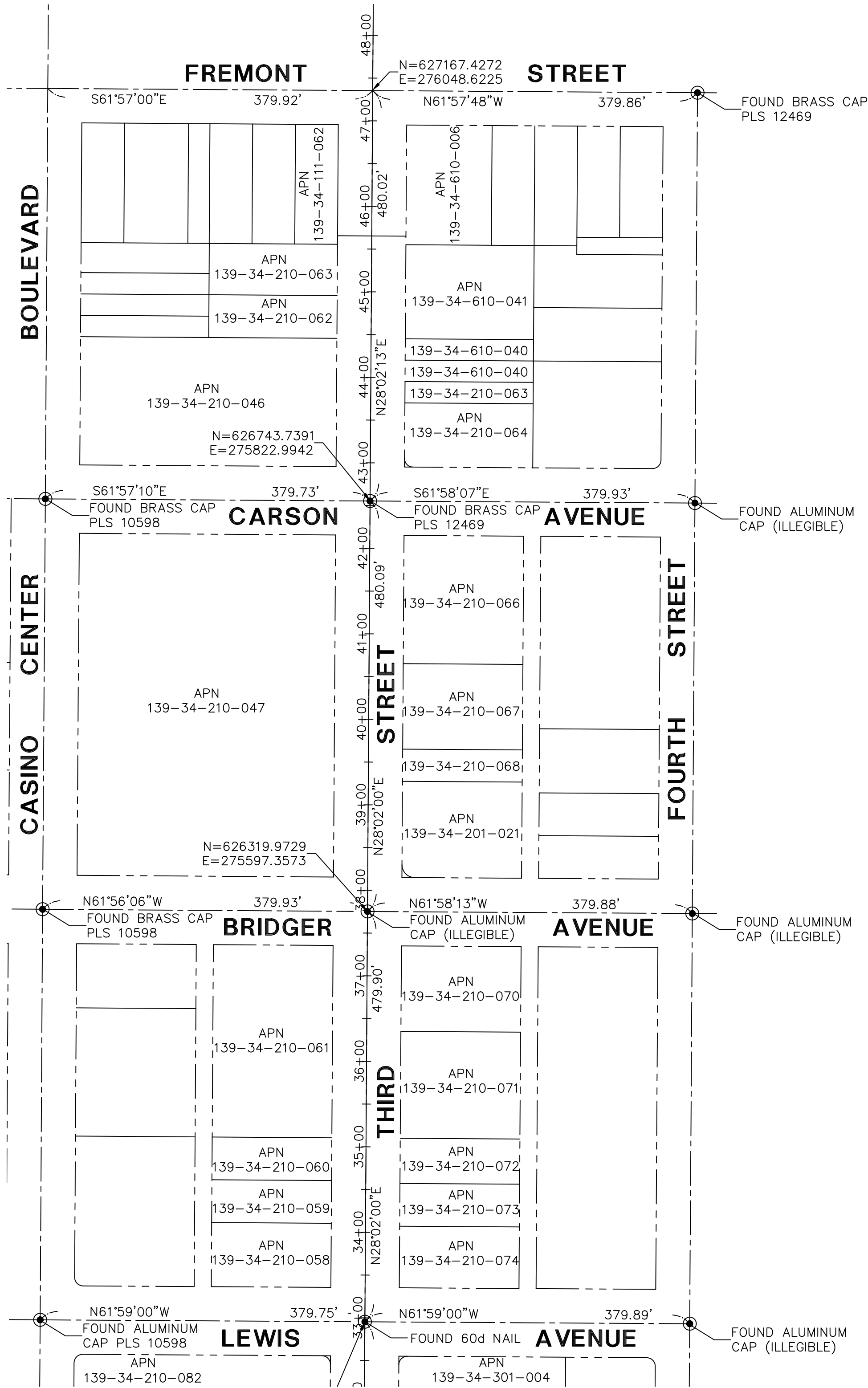
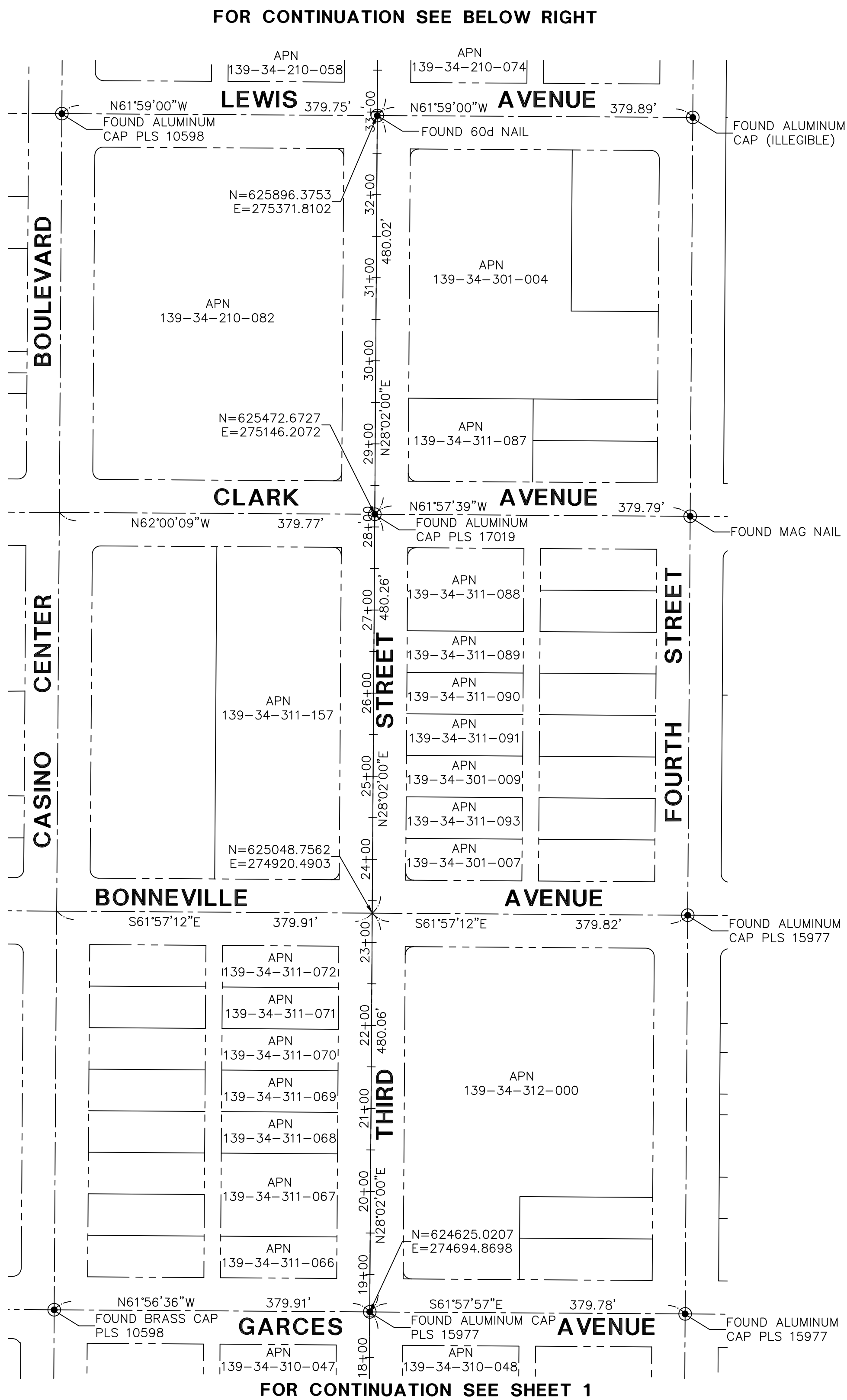
PREPARED BY  **VTNN**

2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-2597 WEB SITE
WWW.VTNNV.COM



DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89102

[illegible]



PREPARED BY CITY OF LAS VEGAS		DESIGNED BY: MD	
H# 54616		DRAWN BY: ND	
DATE: --		CHECKED BY: LL	
SUBMITTAL STAGE:		30% Submittal	

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

HORIZONTAL CONTROL

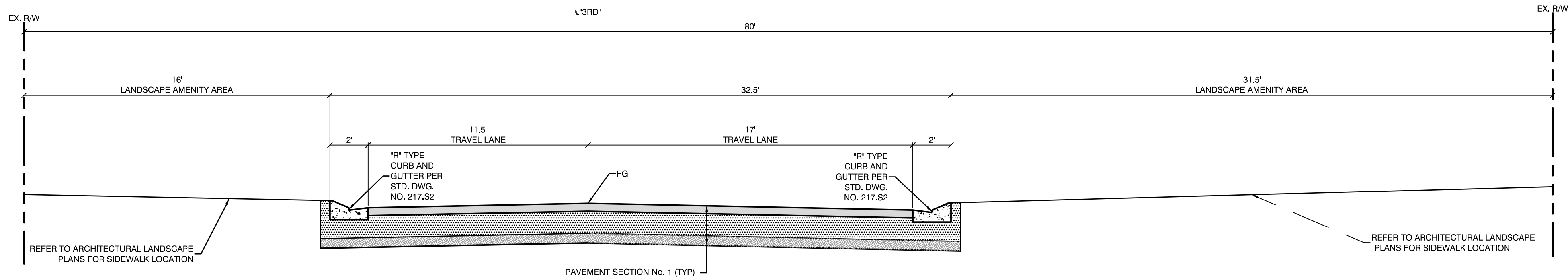
SHEET

NO. 1		DATE		REVISIONS	

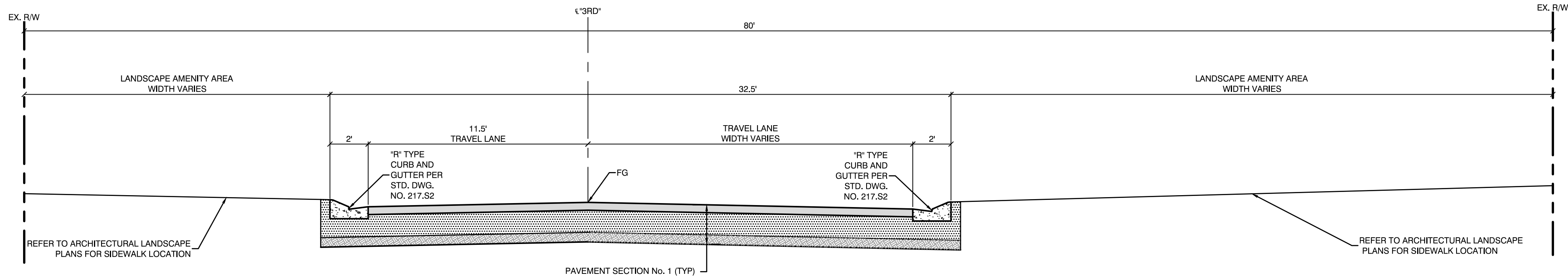
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
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FAX: (702) 875-7551
WWW.VTNV.COM

DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89101
702-229-8272

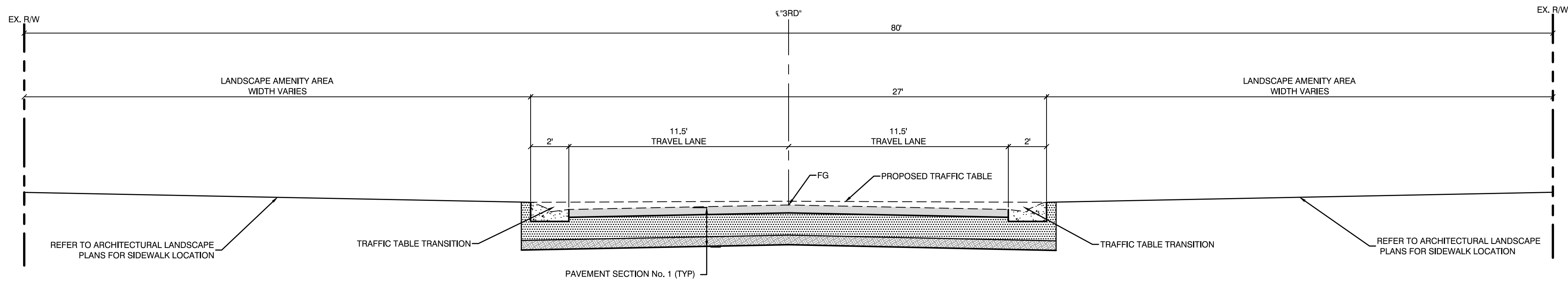
12/21/16 H:\7350-THIRD STREET(SHEET SET)\PHASE 2\03) TYPICAL SECTIONS\7350 3RD STREET TYPICAL SECTIONS-PHASE 2.DWG



"3RD" 10+82.41 TO "3RD" 11+86.85



"3RD" 11+86.85 TO "3RD" 12+38.16

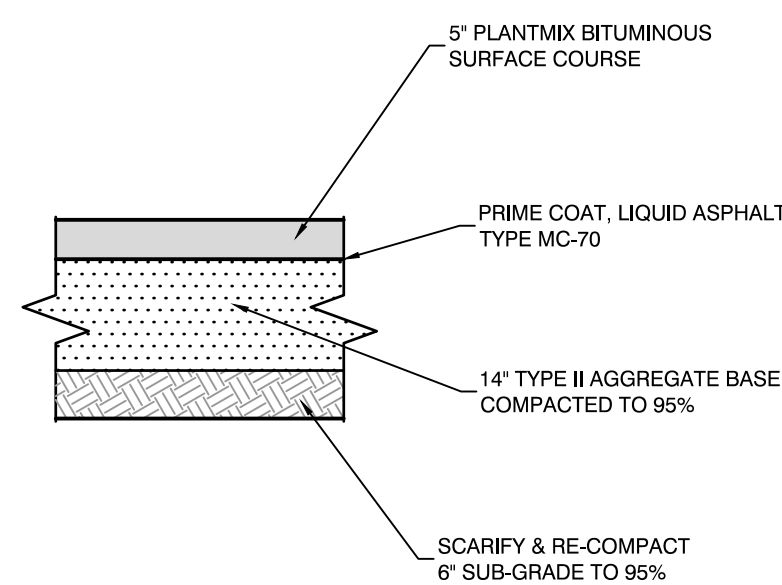


"3RD" 12+38.16 TO "3RD" 12+89.31

"3RD" 16+98.64 TO "3RD" 17+49.23

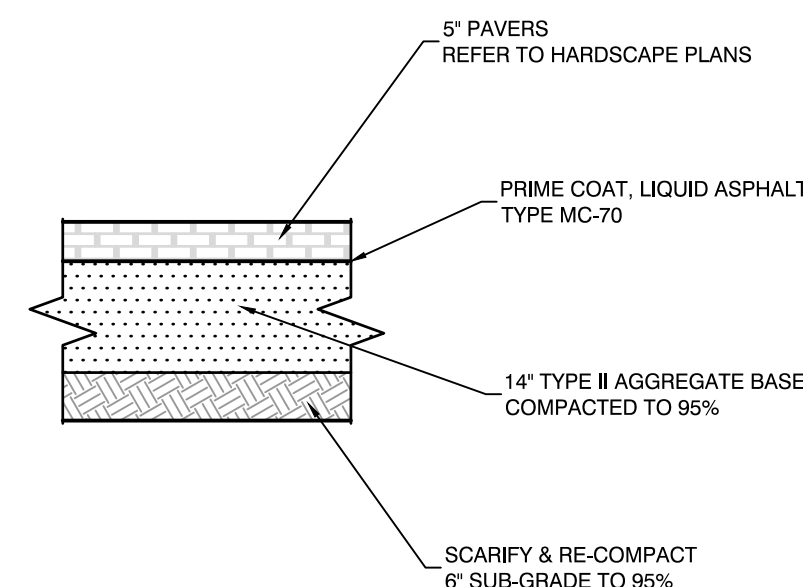
"3RD" 20+45.11 TO "3RD" 21+00.24

"3RD" 25+50.98 TO "3RD" 25+81.58



PAVEMENT SECTION NO. 1 DETAIL

SCALE 1" = 2'



PAVEMENT SECTION NO. 2 DETAIL

SCALE 1" = 2'

SCALE 1" = 4'



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



SHEET
TY1
5 OF 61
DRAWING NO.

PREPARED BY
CITY OF LAS VEGAS

BID# ---
DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL
DATE: --
SUBMITTAL STAGE:
30% Submittal

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

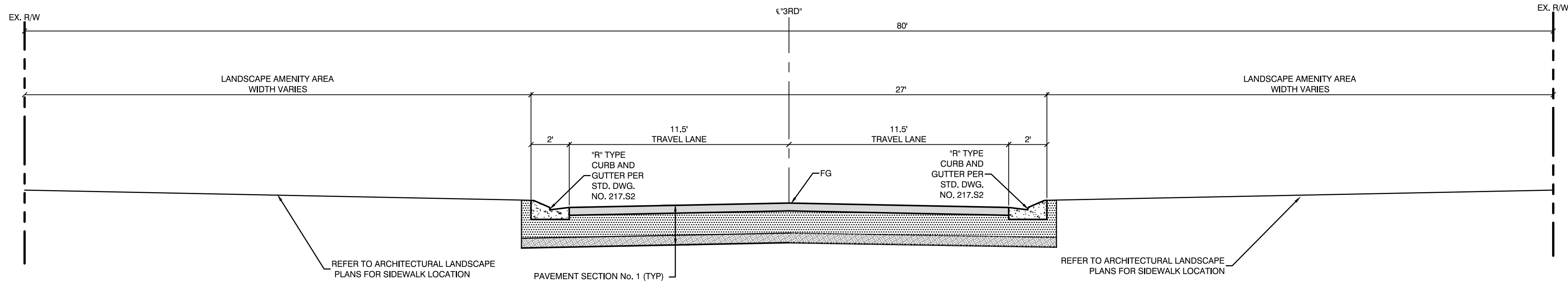
TYPICAL SECTIONS

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LAS VEGAS, NEVADA 89146-5148
PH: (702) 875-7550
FAX: (702) 875-7551
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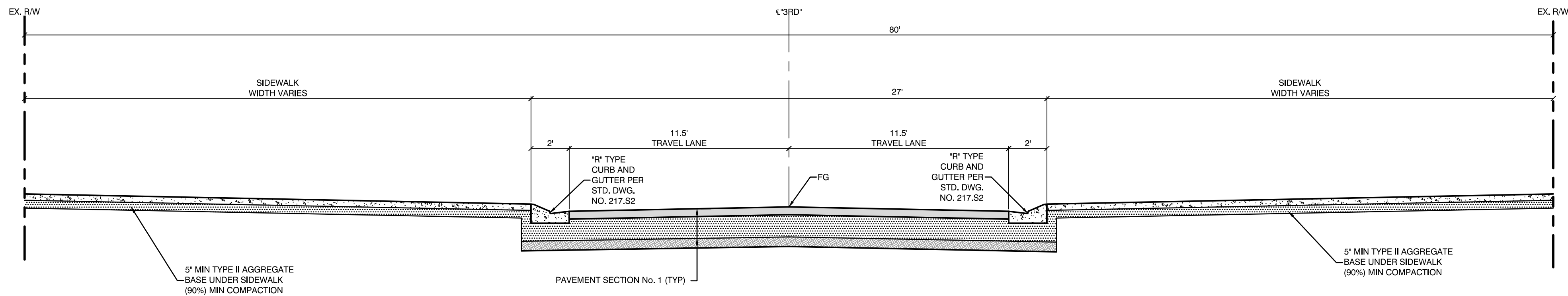
DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89101
702-229-8272



NO. I DATE REVISIONS



"3RD" 12+89.31 TO "3RD" 13+58.52
"3RD" 16+80.80 TO "3RD" 16+98.64
"3RD" 17+49.23 TO "3RD" 18+40.01
"3RD" 19+41.03 TO "3RD" 20+45.11
"3RD" 24+25.20 TO "3RD" 25+50.98
"3RD" 27+00.61 TO "3RD" 28+09.04



"3RD" 13+58.52 TO "3RD" 13+84.50
"3RD" 14+32.51 TO "3RD" 14+59.29
"3RD" 18+40.01 TO "3RD" 18+66.26
"3RD" 19+15.01 TO "3RD" 19+41.03
"3RD" 23+23.57 TO "3RD" 23+48.32
"3RD" 24+96.32 TO "3RD" 24+25.20
"3RD" 28+09.04 TO "3RD" 28+32.02



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



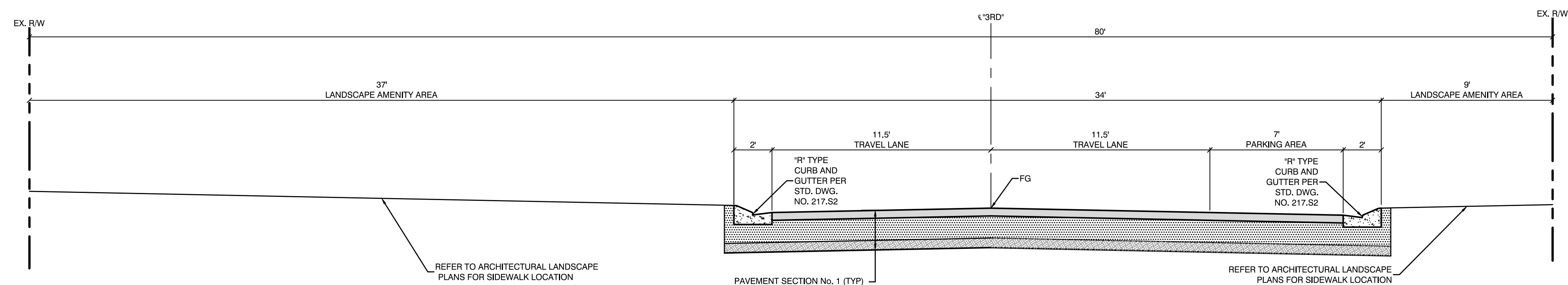
TY2
6 OF 61
DRAWING NO.

PREPARED FOR
CITY OF LAS VEGAS
H# 54616
DATE: --
SUBMITTAL STAGE:
30% Submittal

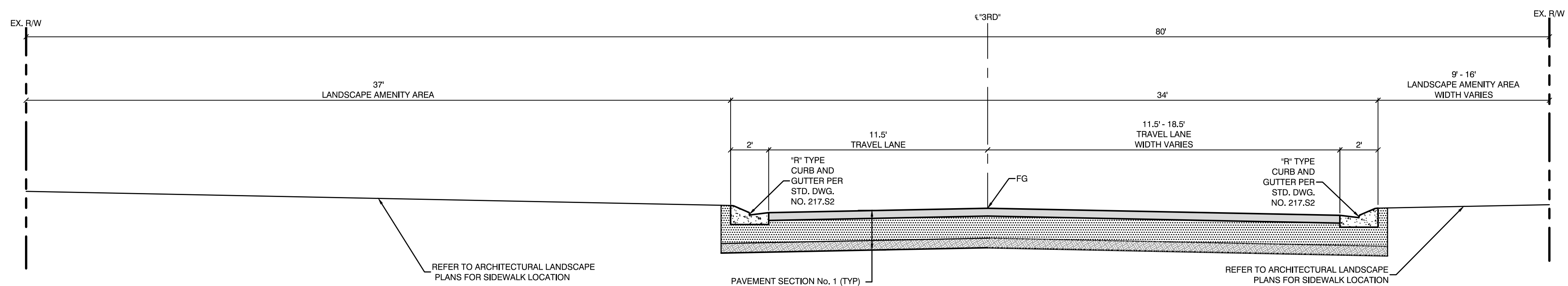
DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE
TYPICAL SECTIONS

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LAS VEGAS, NEVADA 89146-5148
PH: (702) 875-7550
WWW.VTNV.COM
DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89101
702-229-8272

NO.	DATE	REVISIONS

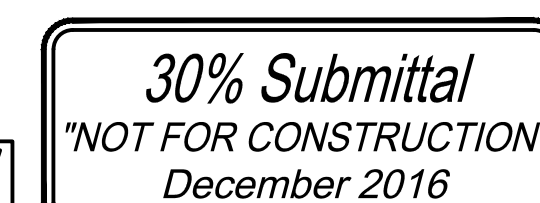
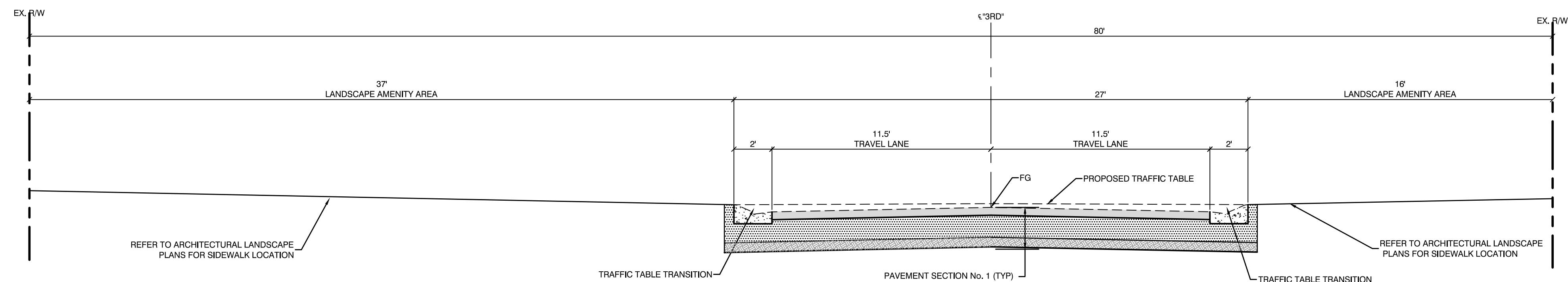


"3RD" 22+31.14 TO "3RD" 22+97.29



"3RD" 16+60.56 TO "3RD" 16+80.80

"3RD" 22+97.29 TO "3RD" 23+23.57



SHEET
TY3
7 OF 61
DRAWING NO.

PREPARED FOR
CITY OF LAS VEGAS

# 54616	BID # 00000
DATE: --	DESIGNED BY: MD
SUBMITTAL STAGE: 30% Submittal	DRAWN BY: ND
	CHECKED BY: LL

**DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE**

TYPICAL SECTIONS

PREPARED BY  2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 382-2597 WEB SITE
WWW.VTNNV.COM

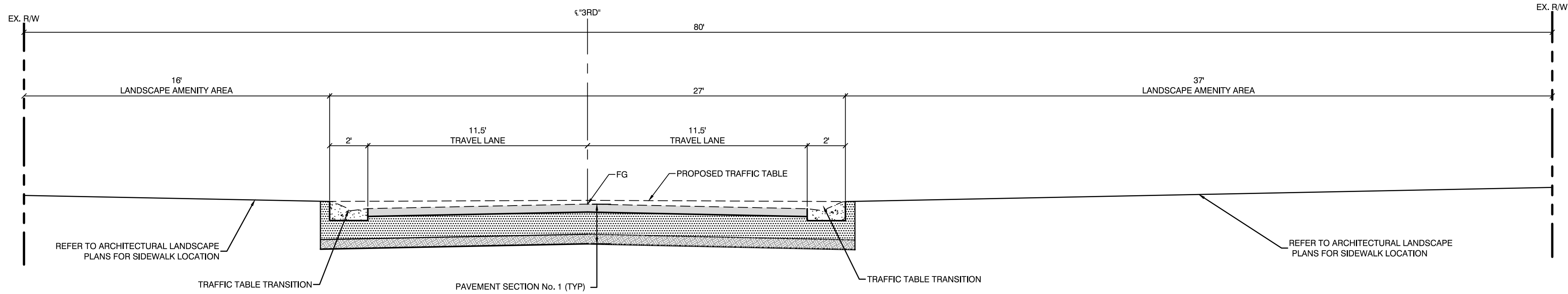


DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89106
702-229-6272

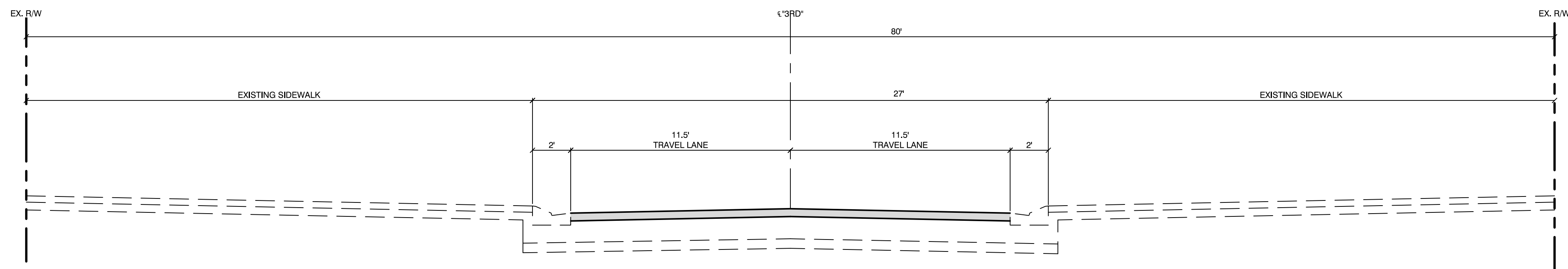
REVISIONS

NO.	DATE
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LAS VEGAS, NV 89101
702-229-6272



"3RD" 25+81.58 TO "3RD" 27+00.61



"3RD" 28+80.87 TO "3RD" 29+01.84



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



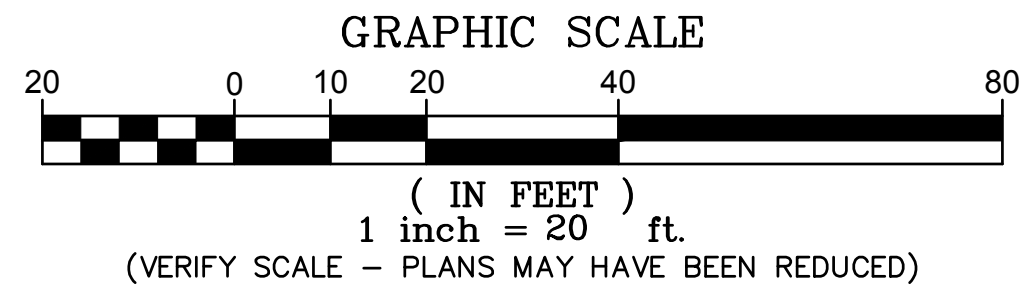
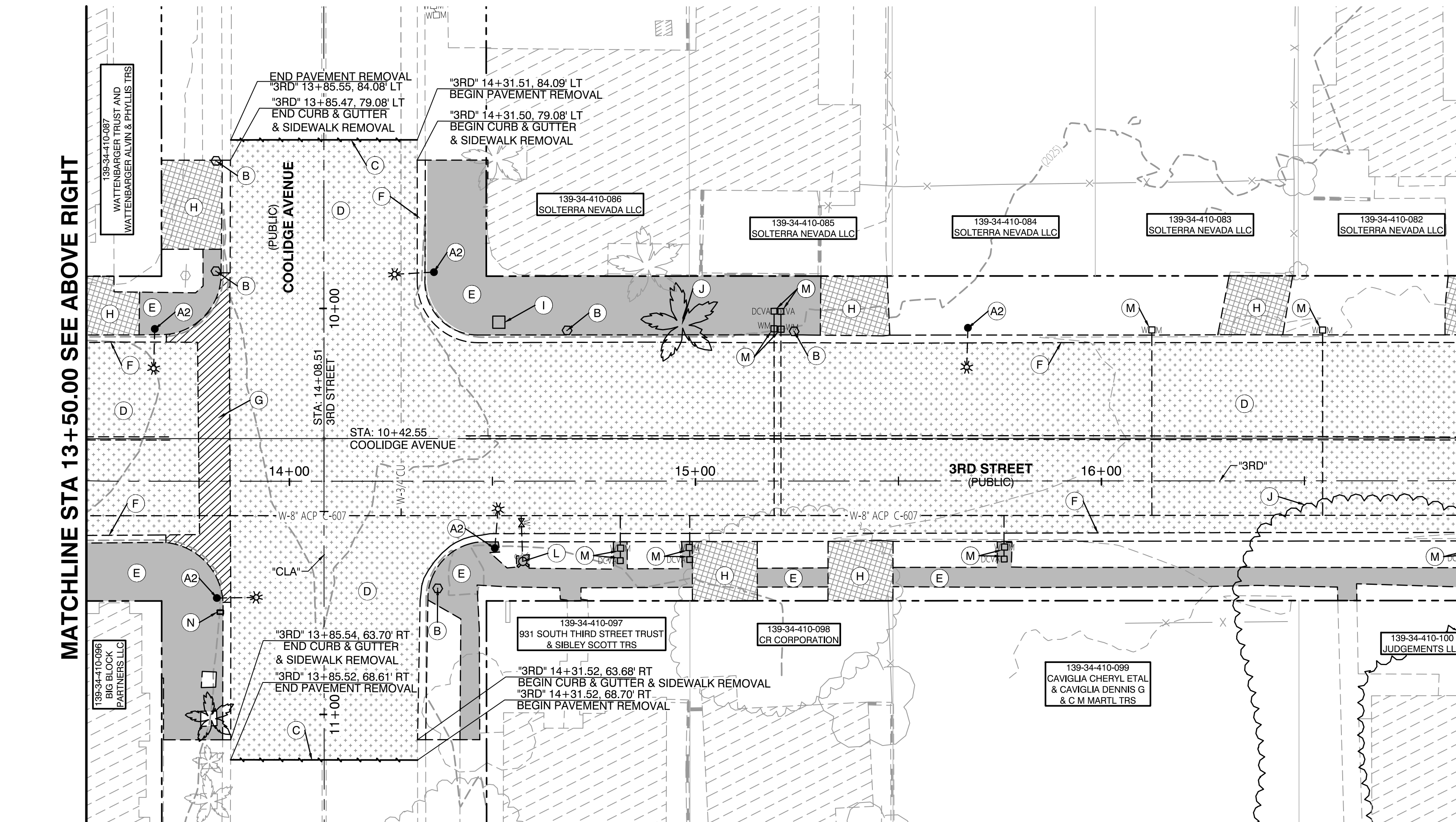
TY4
8 OF 61
DRAWING NO.

PREPARED FOR
CITY OF LAS VEGAS
H# 54616
DATE: --
SUBMITTAL STAGE:
30% Submittal

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE
TYPICAL SECTIONS

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 879-7550
WWW.VTNV.COM
DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89101
702-229-8272

NO. | DATE | REVISIONS



- ### DEMOLITION/REMOVAL NOTES
- (A2) REMOVE EX. STEEL STREETLIGHT HARDWARE & RETURN TO THE CITY OF LAS VEGAS (ALL COMPONENTS AND WIRE). DEMOLISH EX. STREETLIGHT FOUNDATION TO A MINIMUM OF 24" BELOW GRADE.
 - (B) REMOVE EX. SIGN AND SALVAGE TO SERVICE YARD
 - (C) SAWCUT LINE
 - (D) REMOVE EX. PAVEMENT
 - (E) REMOVE EX. CONCRETE SIDEWALK
 - (F) REMOVE EX. CURB & GUTTER
 - (G) REMOVE EX. CONCRETE VALLEY GUTTER
 - (H) REMOVE EX. DRIVEWAY
 - (I) REMOVE AND RELOCATE EX. MAILBOX. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATION.
 - (J) REMOVE EX. TREES/SHRUBS
 - (L) REMOVE & RELOCATE EX. FIRE HYDRANT. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATION.
 - (M) REMOVE EX. WATER METER AND/OR BACKFLOW PREVENTER AS INDICATED. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATIONS.
 - (N) REMOVE STREETLIGHT PULLBOX, SEE STREETLIGHT PLANS.

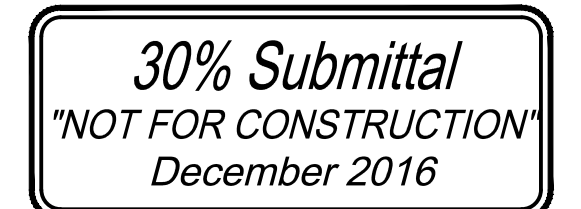
2 EX. STREET LIGHT, P.I.P.

CLV - REMOVAL NOTES TO CONTRACTOR

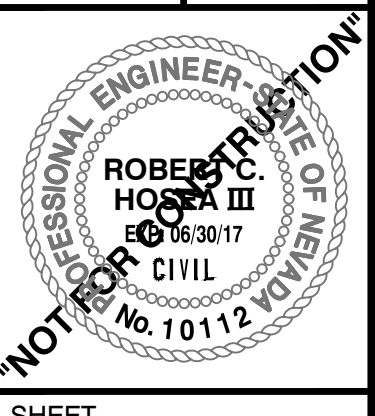
1. REMOVE AND SALVAGE ITEMS SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY OF LAS VEGAS EAST SERVICE YARD AT 3104 EAST BONANZA ROAD. CALL (702) 229-6331, 24 HOURS BEFORE DELIVERY TO SET UP TIME. CONTRACTOR MUST HAVE ACCESS TO UNLOAD EQUIPMENT AND SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED IN THIS PROCESS. 2. EXISTING STREETLIGHTS TO REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL. 3. REFERENCE MONUMENTS TO BE REMOVED SHALL BE REPLACED AND SET AT COMPLETION OF CONSTRUCTION ACCORDING TO SPECIAL PROVISION 621 AND 622.

THIS PROJECT CONTAINS AREAS OF EXISTING ASBESTOS CEMENT PIPE (ACP) INSTALLATION. DUE TO THE AGE AND BRITTLINESS OF THIS PIPE IT IS MANDATORY THAT A MINIMUM OF TWO (2) FEET OF COVER BE MAINTAINED OVER THE PIPE DURING ALL CONSTRUCTION WORK.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: _____ PROJECT: #####
LVVWD APPROVED FIRE FLOW ##### GPM AT 20 P.S.I. RESIDUAL



REMOVAL PLANS



RP1
9 OF 61
DRAWING NO.

[illegible]



	PAVEMENT AND SUBGRADE REMOVAL LIMITS
	SIDEWALK REMOVAL LIMITS
	VALLEY GUTTER REMOVAL LIMITS
	DRIVEWAY REMOVAL LIMITS
	2" ROTOMILL LIMITS
	EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING UTILITY BOX
	EXISTING OVERHEAD ELECTRIC
	EXISTING STREETLIGHT CONDUIT
	EXISTING FENCE
	EXISTING CURB
	EXISTING SIDEWALK
	RIGHT-OF-WAY LINE
	EXISTING PROPERTY LINE

REMOVE EX. STEEL STREETLIGHT HARDWARE & RETURN TO THE CITY OF LAS VEGAS (ALL COMPONENTS AND WIRE). DEMOLISH EX. STREETLIGHT FOUNDATION TO A MINIMUM OF 24" BELOW GRADE.

- REMOVE EX. SIGN AND SALVAGE TO SERVICE YARD
- SAWCUT LINE
- REMOVE EX. PAVEMENT
- REMOVE EX. CONCRETE SIDEWALK
- REMOVE EX. CURB & GUTTER
- REMOVE EX. CONCRETE VALLEY GUTTER
- REMOVE EX. DRIVEWAY
- REMOVE EX. TREES/SHRUBS
- REMOVE & RELOCATE EX. FIRE HYDRANT. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATION.
- REMOVE EX. WATER METER AND/OR BACKFLOW PREVENTER AS INDICATED. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATIONS.
- REMOVE STREETLIGHT PULLBOX, SEE STREETLIGHT PLANS.
- EX. ELECTRICAL BOX TO BE ADJUSTED TO GRADE.
- REMOVE EX. FENCE. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATION.
- EX. TRAFFIC SIGNAL PULLBOX TO BE RELOCATED/ADJUSTED TO GRADE.

1 EX. POWER POLE, P.I.P.

6 EX. BLOCK WALL, P.I.P.

THIS PROJECT CONTAINS AREAS OF EXISTING ASBESTOS CEMENT PIPE (ACP) INSTALLATION. DUE TO THE AGE AND BRITTLENESS OF THIS PIPE IT IS MANDATORY THAT A MINIMUM OF TWO (2) FEET OF COVER BE MAINTAINED OVER THE PIPE DURING ALL CONSTRUCTION WORK.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: _____ PROJECT:####

LVWVD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL

1. REMOVE AND SALVAGE ITEMS SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY OF LAS VEGAS EAST SERVICE YARD AT 3104 EAST BONAZZA ROAD. CALL (702) 229-6331, 24 HOURS BEFORE DELIVERY TO SET UP TIME. CONTRACTOR MUST HAVE MEANS TO UNLOAD EQUIPMENT AND SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED IN THIS PROCESS.
2. EXISTING STREETLIGHTS TO REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL.
3. REFERENCE MONUMENTS TO BE REMOVED SHALL BE REPLACED AND SET AT COMPLETION OF CONSTRUCTION ACCORDING TO SPECIAL PROVISION 621 AND 622.

30% Submittal
"NOT FOR CONSTRUCTION"
December 2016

FAST



Call
before you
UnderGround

1-702-432-5300

**FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION**

**3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE**

REMOVAL PLANS

RP2
10 OF 61
DRAWING NO.



PROFESSIONAL ENGINEER-STATE OF NEVADA
 ROBERT C.
 HOSEA III
 Exp 06/30/17
 CIVIL
 No. 10112



LAS VEGAS, NEVADA 89146-5148
 PH. (702) 873-7550
 FAX (702) 362-2597 WEB SITE

CITY OF LAS VEGAS

E: --	DESIGNED BY: MD
-------	-----------------

DRAWN BY: ND

CHECKED BY: LL

CITY OF
54616
DATE: --
SUBMITTAL STAGE:
30% Submittal



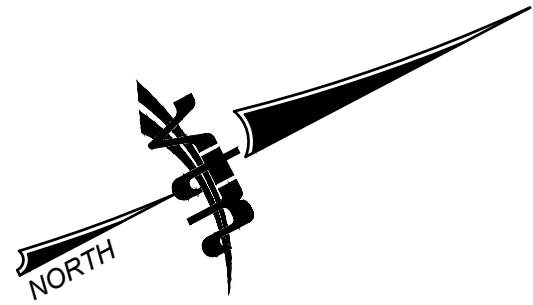
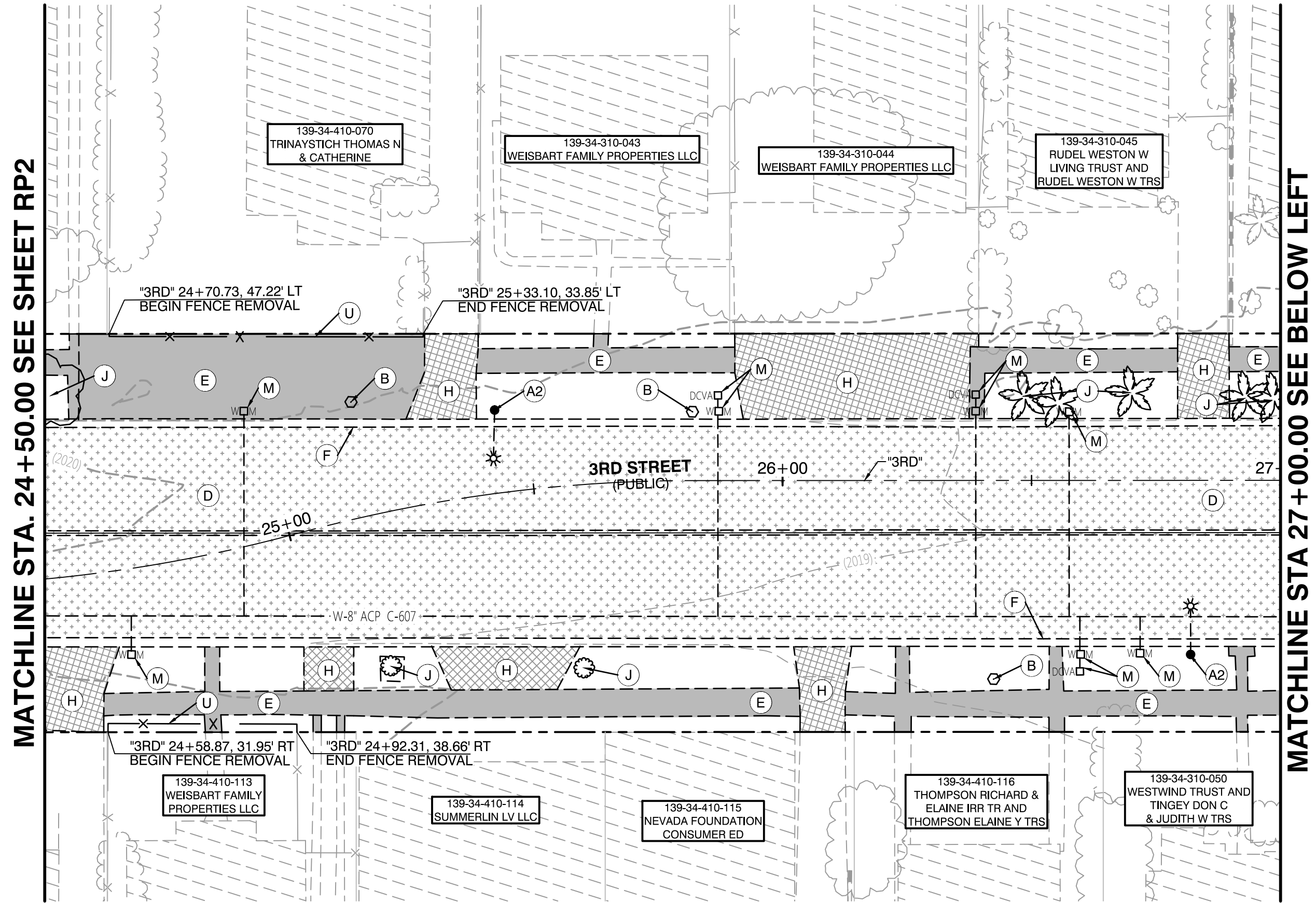
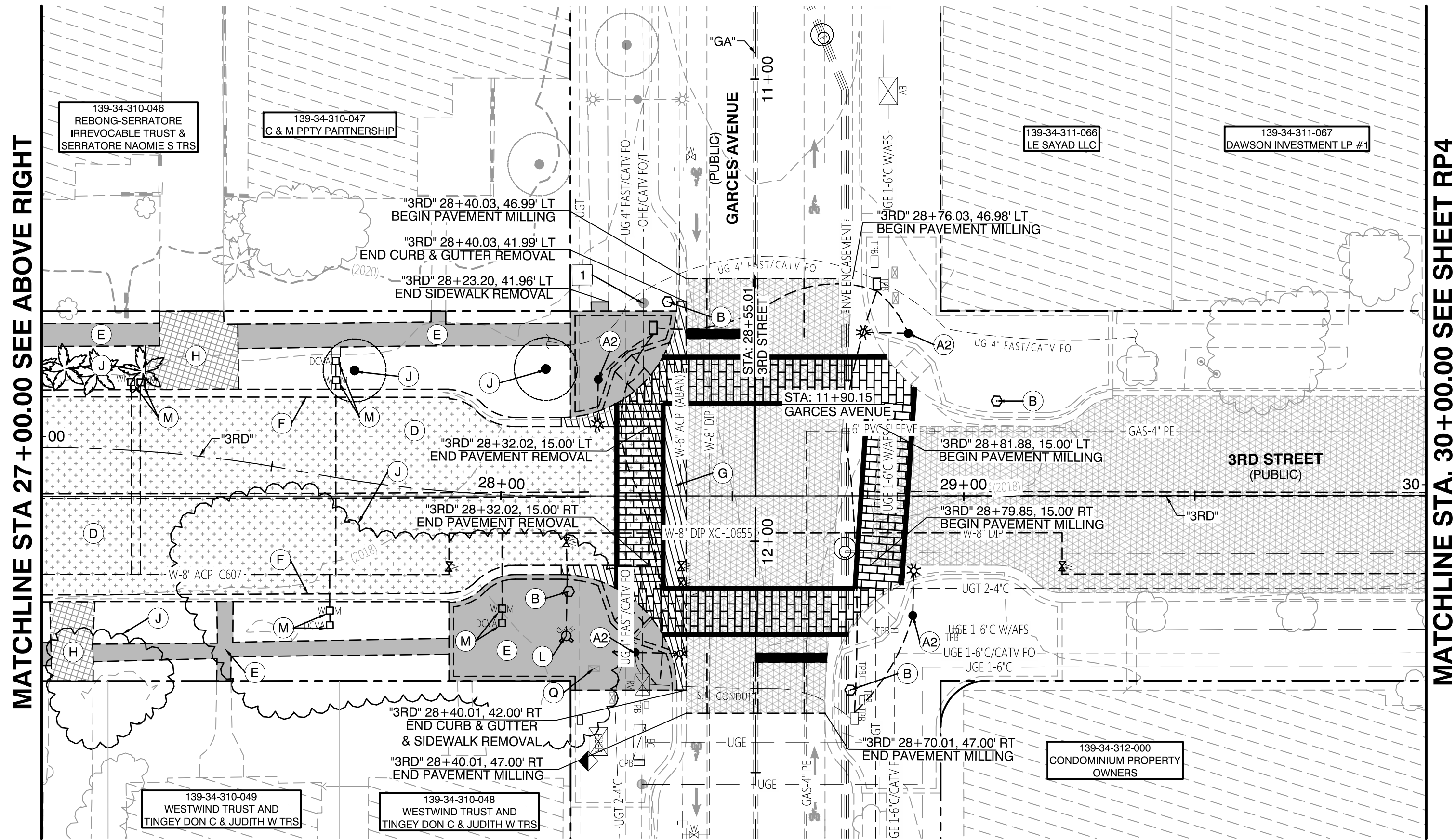
LAS VEGAS, NEVADA 89146-5148
 PH. (702) 873-7550
 FAX (702) 362-2597 WEB SITE

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS

DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89106

702-229-6272





SHALLOW ACP WATERLINE

THIS PROJECT CONTAINS AREAS OF EXISTING ASBESTOS CEMENT PIPE (ACP) INSTALLATION. DUE TO THE AGE AND BRITTLINESS OF THIS PIPE IT IS MANDATORY THAT A MINIMUM OF TWO (2) FEET OF COVER BE MAINTAINED OVER THE PIPE DURING ALL CONSTRUCTION WORK.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: _____ PROJECT:####
LVVWD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL

FAST

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1-702-432-5300
FREEMAN AND ARTERIAL SYSTEM OF TRANSPORTATION

30% Submittal
"NOT FOR CONSTRUCTION"
December 2016

Call before you Dig
811
1-702-227-2929

CLV - REMOVAL NOTES TO CONTRACTOR

1. REMOVE AND SALVAGE ITEMS SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY OF LAS VEGAS EAST SERVICE YARD AT 3104 EAST BONANZA ROAD. CALL (702) 229-6331, 24 HOURS BEFORE DELIVERY TO SET UP TIME. CONTRACTOR MUST HAVE MEANS TO UNLOAD EQUIPMENT AND SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED IN THIS PROCESS.

2. EXISTING STREETLIGHTS TO REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL.

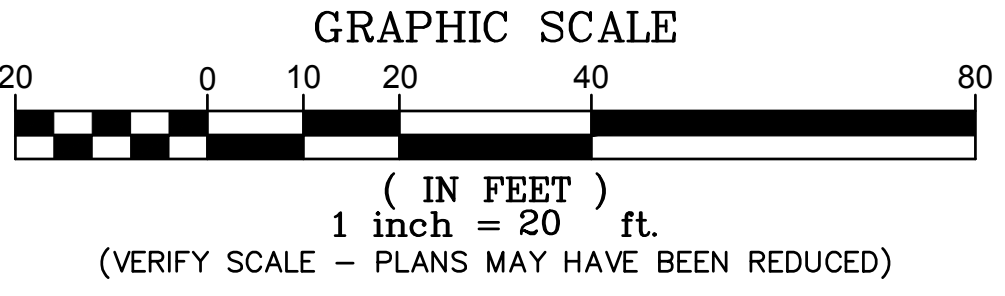
3. REFERENCE MONUMENTS TO BE REMOVED SHALL BE REPLACED AND SET AT COMPLETION OF CONSTRUCTION ACCORDING TO SPECIAL PROVISION 621 AND 622.

LEGEND

PAVEMENT AND SUBGRADE REMOVAL LIMITS
SIDEWALK REMOVAL LIMITS
VALLEY GUTTER REMOVAL LIMITS
DRIVEWAY REMOVAL LIMITS
2" ROTOMILL LIMITS

EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
EXISTING LIGHT POLE
EXISTING UTILITY POLE
EXISTING WATER VALVE
EXISTING WATER METER
EXISTING FIRE HYDRANT
EXISTING UTILITY BOX

EXISTING OVERHEAD ELECTRIC
EXISTING STREETLIGHT CONDUIT
EXISTING FENCE
EXISTING CURB
EXISTING SIDEWALK
RIGHT-OF-WAY LINE
EXISTING PROPERTY LINE



DEMOLITION/REMOVAL NOTES

REMOVE EX. STEEL STREETLIGHT HARDWARE & RETURN TO THE CITY OF LAS VEGAS (ALL COMPONENTS AND WIRE). DEMOLISH EX. STREETLIGHT FOUNDATION TO A MINIMUM OF 24" BELOW GRADE.

REMOVE EX. SIGN AND SALVAGE TO SERVICE YARD

REMOVE EX. PAVEMENT

REMOVE EX. CONCRETE SIDEWALK

REMOVE EX. CURB & GUTTER

REMOVE EX. CONCRETE VALLEY GUTTER

REMOVE EX. DRIVEWAY

REMOVE EX. TREES/SHRUBS

REMOVE & RELOCATE EX. FIRE HYDRANT. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATION.

REMOVE EX. WATER METER AND/OR BACKFLOW PREVENTER AS INDICATED. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATIONS.

EX. ELECTRICAL BOX TO BE ADJUSTED TO GRADE.

REMOVE EX. FENCE. REFER TO ROADWAY PLAN & PROFILES FOR NEW LOCATION.

PROTECT IN PLACE

EX. POWER POLE, P.I.P.

PREPARED BY: **CITY OF LAS VEGAS**

2727 SOUTH RANCHO BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 879-7550
WWW.VTNV.COM

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE: **30% Submittal**

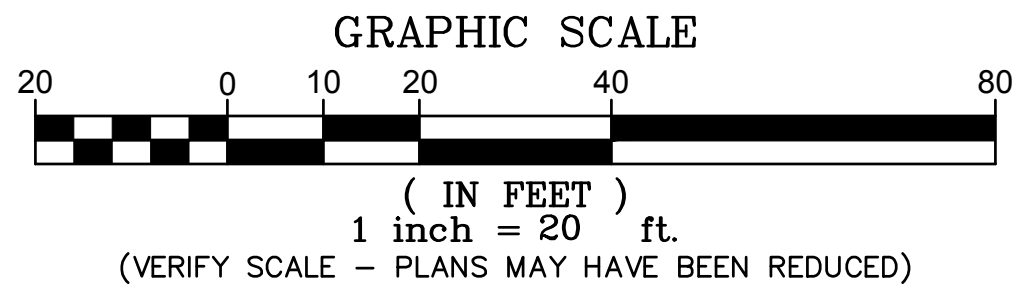
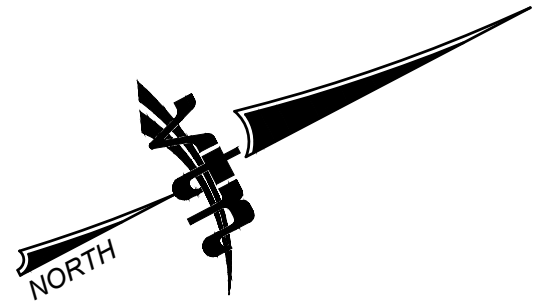
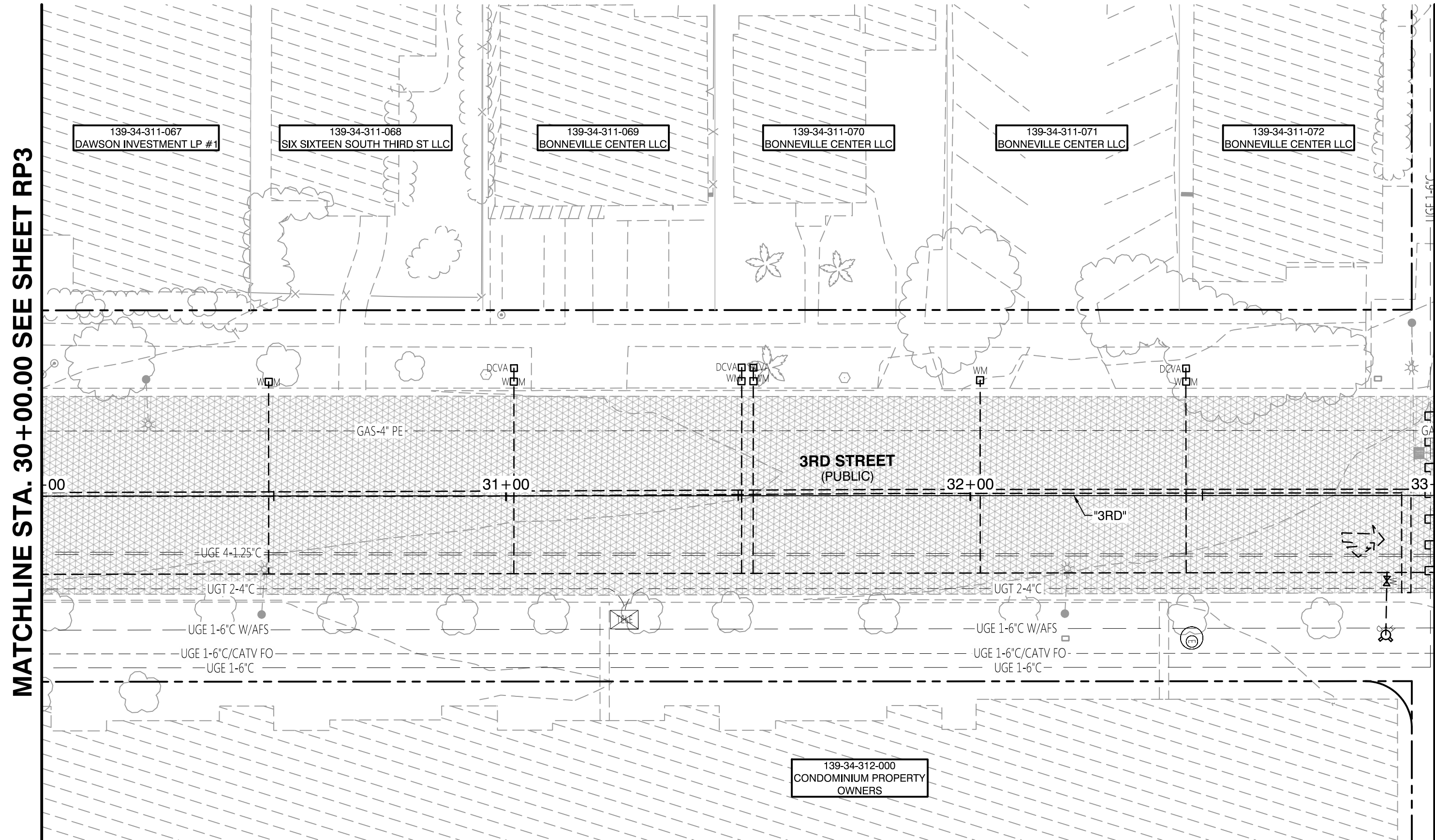
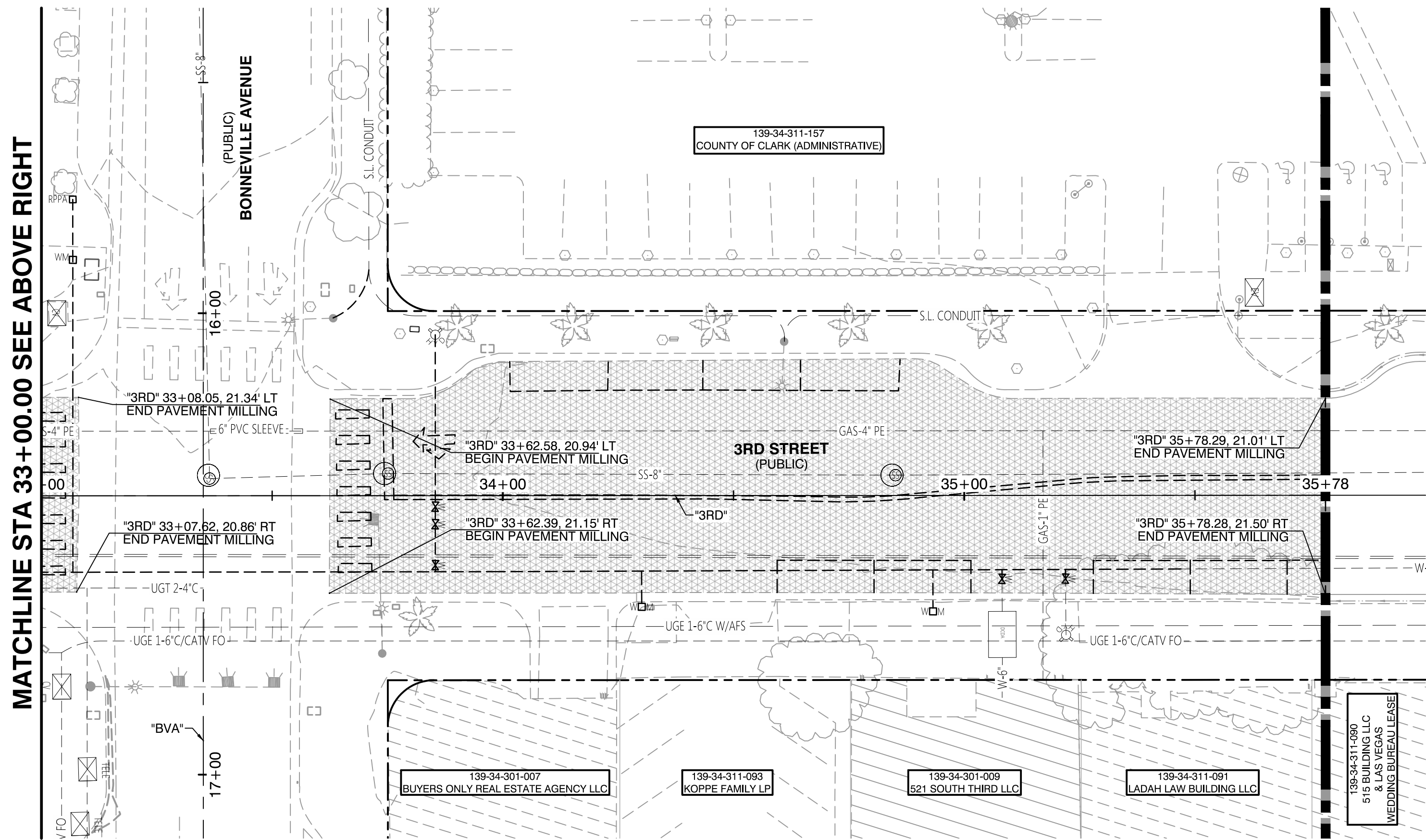
NO. | DATE | REVISIONS

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

REMOVAL PLANS

SHEET
RP3
11 OF 61
DRAWING NO.

PROFESSIONAL ENGINEER
ROBERT HOSKINS III
06/06/2017
CIVIL
No. 10112



LEGEND	
	PAVEMENT AND SUBGRADE REMOVAL LIMITS
	SIDEWALK REMOVAL LIMITS
	VALLEY GUTTER REMOVAL LIMITS
	DRIVEWAY REMOVAL LIMITS
	2' ROTOMILL LIMITS
	EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING UTILITY BOX
	EXISTING OVERHEAD ELECTRIC
	EXISTING STREETLIGHT CONDUIT
	EXISTING FENCE
	EXISTING CURB
	EXISTING SIDEWALK
	RIGHT-OF-WAY LINE
	EXISTING PROPERTY LINE

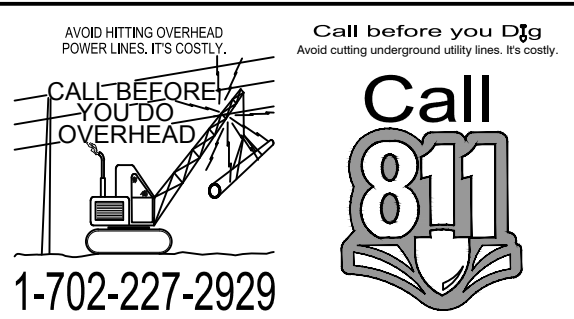
CLV - REMOVAL NOTES TO CONTRACTOR

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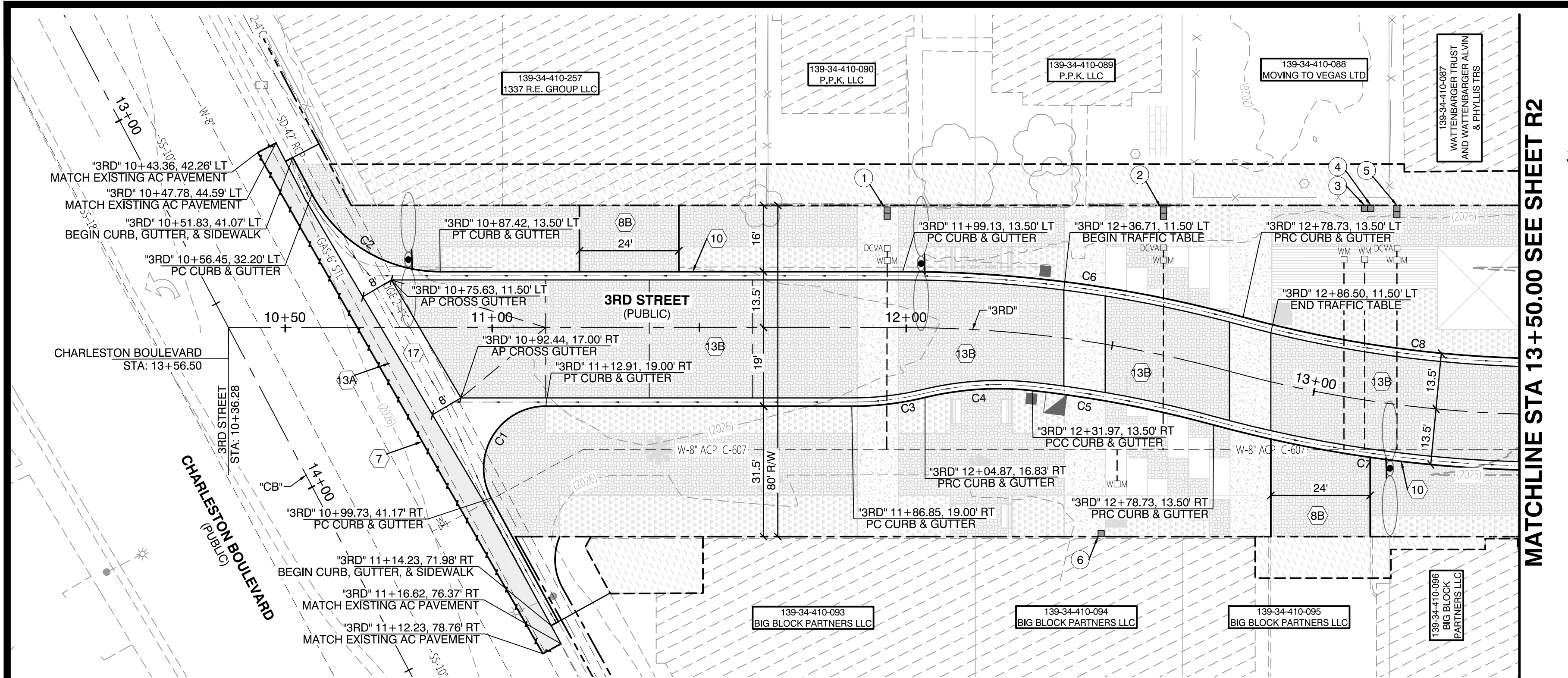
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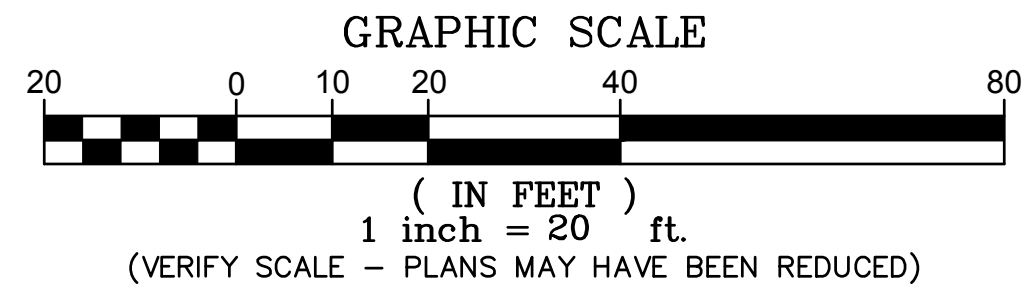
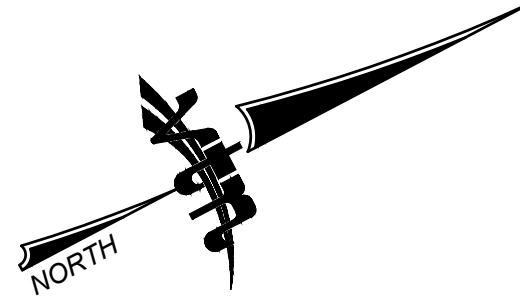
SHALLOW ACP WATERLINE
THIS PROJECT CONTAINS AREAS OF EXISTING ASBESTOS CEMENT PIPE (ACP) INSTALLATION. DUE TO THE AGE AND BRITTLINESS OF THIS PIPE IT IS MANDATORY THAT A MINIMUM OF TWO (2) FEET OF COVER BE MAINTAINED OVER THE PIPE DURING ALL CONSTRUCTION WORK.
LAS VEGAS VALLEY WATER DISTRICT APPROVAL
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE: _____ PROJECT:#### LVVWD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL



PREPARED BY CITY OF LAS VEGAS	DESIGNED BY: MD DRAWN BY: ND CHECKED BY: LL	DATE: -- SUBMITTAL STAGE: 30% Submittal
2727 SOUTH RANCHO BOULEVARD LAS VEGAS, NEVADA 89146-5148 PH: (702) 879-7550 FAX: (702) 879-7550 WWW.VTNV.COM	DEPARTMENT OF PUBLIC WORKS 333 N. RANCHO DRIVE LAS VEGAS, NV 89101 702-229-6272	NO. DATE
DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS 3RD STREET-PHASE 2 CHARLESTON TO BONNEVILLE	REMOVAL PLANS	REVISIONS
SHEET		
RP4		
12 OF 61		
DRAWING NO.		



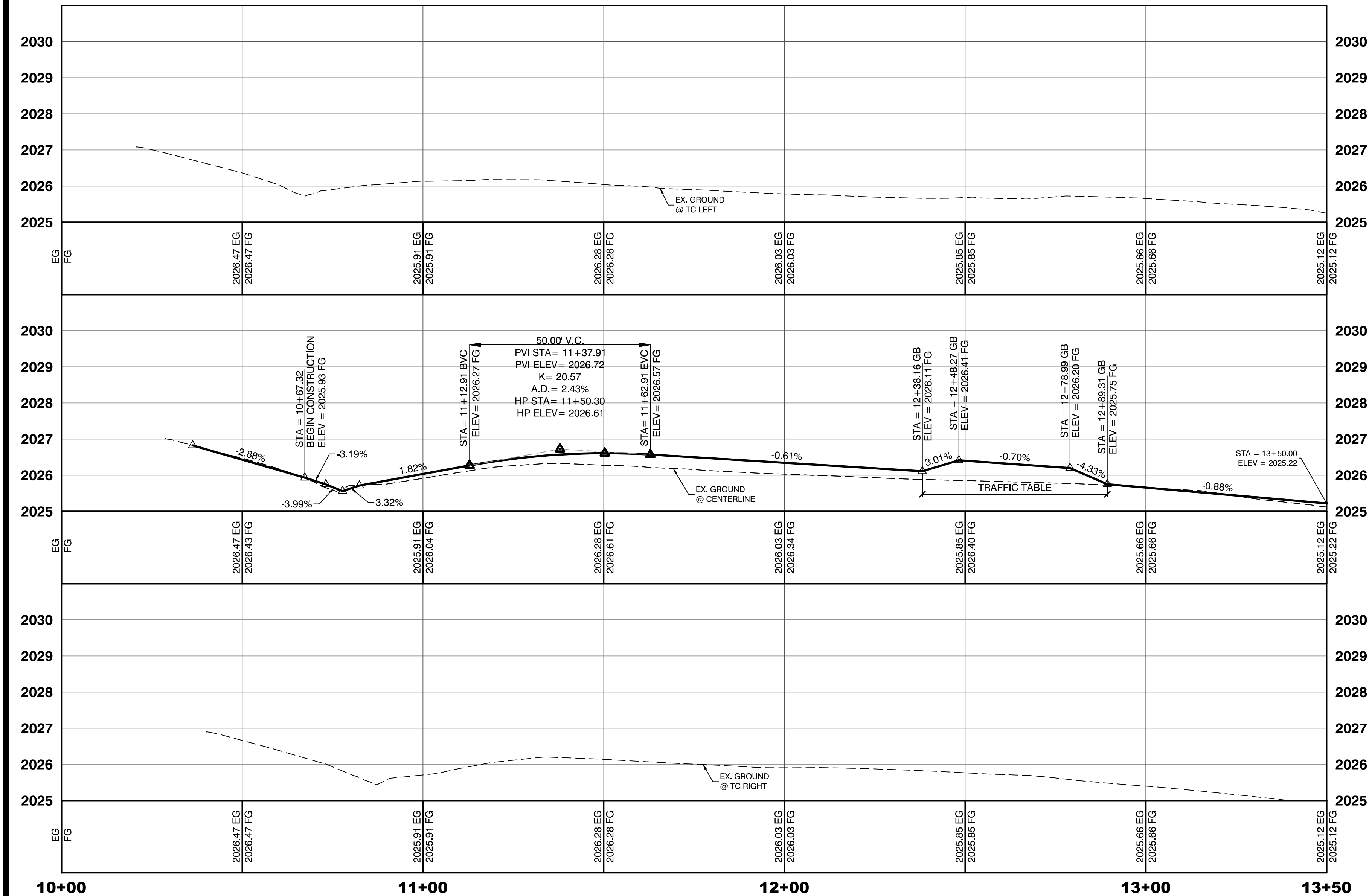
MATCHLINE STA 13+50.00 SEE SHEET R2



LEGEND	
	PAVEMENT LIMITS
	DRIVEWAY LIMITS
	PROPOSED AEP
	ENCROACHMENT PERMIT
	PAVERS
	PAVERS (2)
	SPECIALTY CONCRETE
	PLANTING HATCH
	TURF HATCH
	EJ HATCH
	EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING UTILITY BOX
	EXISTING OVERHEAD ELECTRIC
	EXISTING STREETLIGHT CONDUIT
	EXISTING FENCE
	EXISTING CURB
	EXISTING SIDEWALK
	RIGHT-OF-WAY LINE
	EXISTING PROPERTY LINE
	PROPOSED CURB
	PROPOSED LIP
	PROPOSED FLOWLINE

- ROADWAY & PAVING NOTES**
- SAWCUT AND MATCH EX. AC.
 - INSTALL DRIVEWAY.
 - SEE HARDSCAPE PLANS FOR DETAILS.
 - INSTALL 24" "R" TYPE CURB & GUTTER PER CCUSD NO. 217 S2.
 - INSTALL 5" AC PAVEMENT OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE TYPICAL SECTIONS FOR DETAILS.
 - INSTALL PAVERS OVER 4" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE HARDSCAPE PLANS FOR DETAILS.
 - INSTALL 8" CROSS GUTTER PER USD NO. 228.

CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C1	15.00'	118°33'50"	31.04'	25.24'
C2	35.00'	62°14'41"	38.02'	21.13'
C3	75.00'	13°38'42"	17.86'	8.97'
C4	75.00'	19°55'05"	26.07'	13.17'
C5	286.50'	8°55'50"	44.66'	22.37'
C6	313.50'	15°12'13"	83.19'	41.84'
C7	313.50'	15°12'13"	83.19'	41.84'
C8	286.50'	15°12'13"	76.02'	38.24'



Call before you Dig
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1-702-432-5300
TRENCH AND ARTISANAL
SYSTEM OF TRANSPORTATION

30% Submittal
"NOT FOR CONSTRUCTION"
December 2016

Call before you Dig
UnderGround
1-702-227-2929
TRENCH AND ARTISANAL
SYSTEM OF TRANSPORTATION

REFERENCE NOTES

- SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
- REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE

RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT:####
LVVWD APPROVED FIRE FLOW ### GPM AT 20 P.S.I. RESIDUAL

WATER SERVICE INFORMATION	
①	ACCT #3859, MTR #813089, 5/8" MTR W/ 1" DCVA
②	ACCT #3744, MTR #646025, 5/8" MTR W/ 1" DCVA
③	ACCT #149379, MTR #N/A, 5/8"
④	ACCT #149378, MTR #N/A, 5/8"
⑤	ACCT #3741, MTR #630951, 1" MTR W/ 1" DCVA
⑥	ACCT #3725, MTR #859279, 5/8"

PREPARED BY
CITY OF LAS VEGAS
2727 SOUTH RANCHO BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 879-7550
WWW.VTNV.COM

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE: 30% Submittal

PREPARED FOR
CITY OF LAS VEGAS
DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

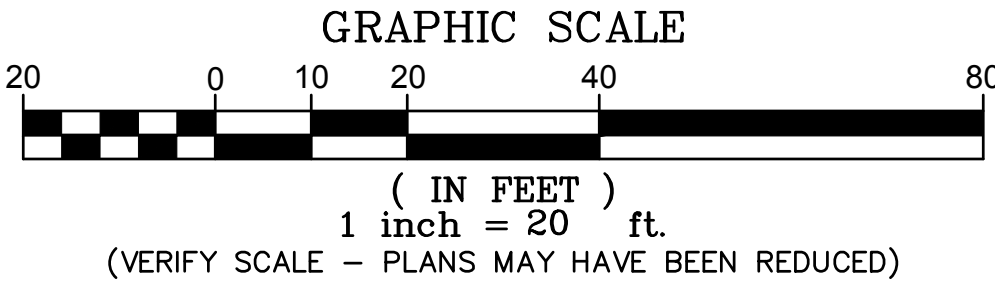
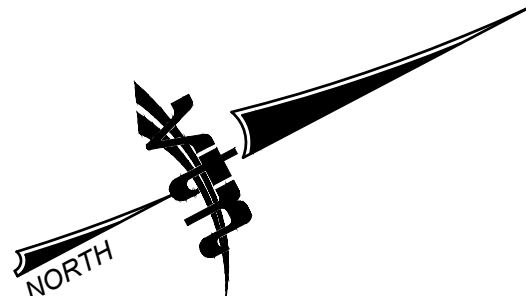
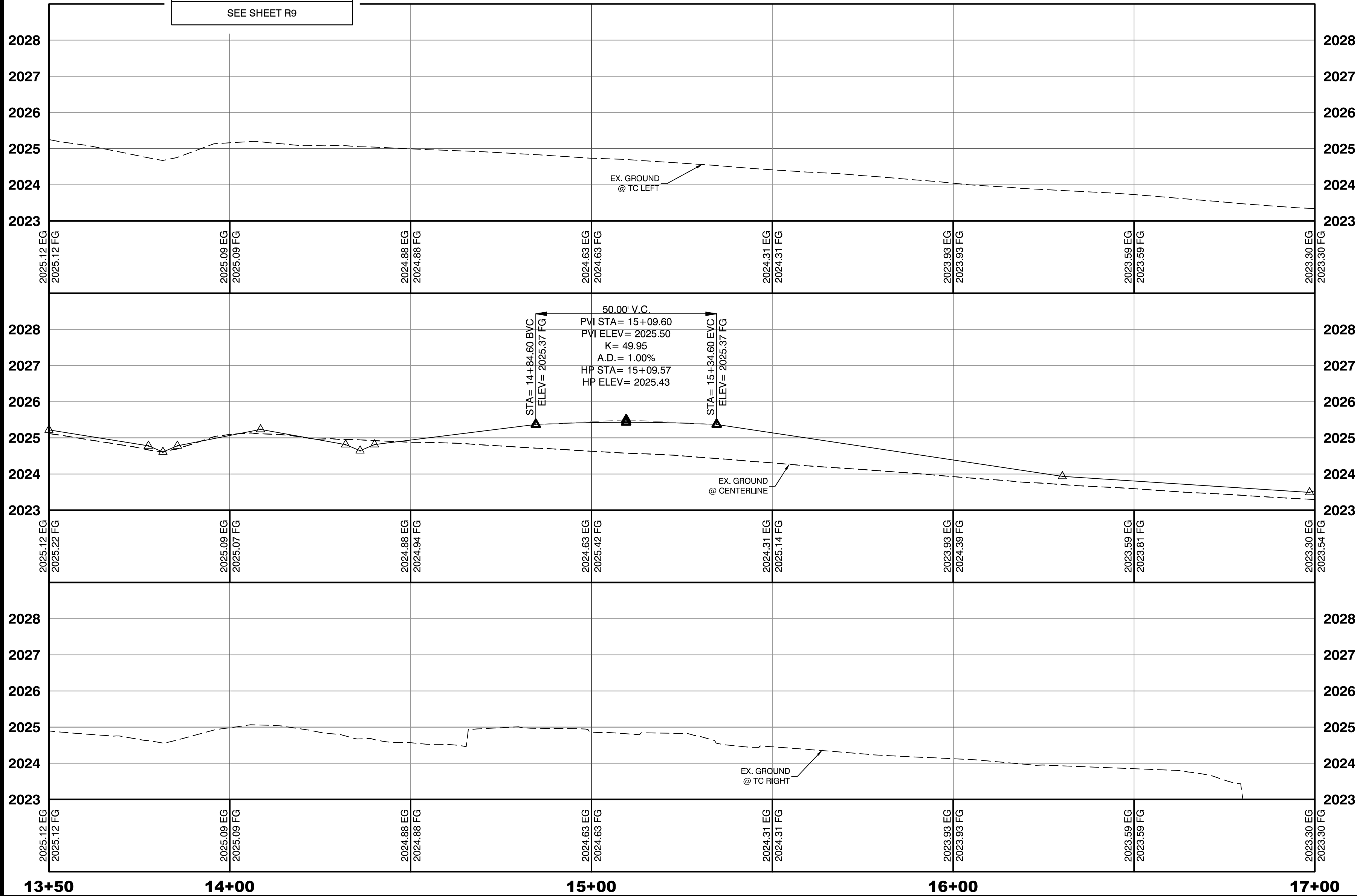
ROADWAY PLAN & PROFILE

SHEET
R1
13 OF 61
DRAWING NO.

REVISIONS

MATCHLINE STA 13+50.00 SEE SHEET R1

MATCHLINE STA 17+00.00 SEE SHEET R3



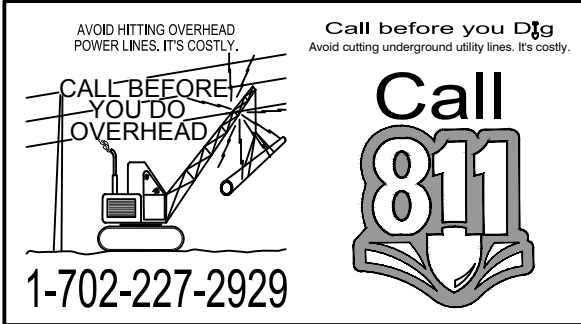
- PAVEMENT LIMITS
- DRIVEWAY LIMITS
- PROPOSED AEP
- PAVERS
- PAVERS (2)
- SPECIALTY CONCRETE
- PLANTING HATCH
- EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING UTILITY BOX
- EXISTING OVERHEAD ELECTRIC
- EXISTING STREETLIGHT CONDUIT
- EXISTING FENCE
- EXISTING CURB
- EXISTING SIDEWALK
- RIGHT-OF-WAY LINE
- EXISTING PROPERTY LINE
- PROPOSED CURB
- PROPOSED LIP
- PROPOSED FLOWLINE

- 6 SURVEY MONUMENT, P.I.P.
- 7 SAWCUT AND MATCH EX. AC.
- 8B INSTALL DRIVEWAY. SEE HARDSCAPE PLANS FOR DETAILS.
- 10 INSTALL 24" "R" TYPE CURB & GUTTER PER CCUSD NO. 217 S2.
- 13A INSTALL 5" AC PAVEMENT OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE TYPICAL SECTIONS FOR DETAILS.
- 13B INSTALL PAVERS OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE HARDSCAPE PLANS FOR DETAILS.
- 17 INSTALL 8" CROSS GUTTER PER USD NO. 228.
- 21 INSTALL MULTI-BAY PARKING METER ANCHOR BASE, PROVIDED BY THE CITY OF LAS VEGAS. TO BE INSTALLED IN AMENITY ZONE, EXACT LOCATION TO BE DETERMINED BY THE OWNER OR AN OWNER'S ON-SITE REPRESENTATIVE.
- 35 RELOCATED FIRE HYDRANT. SEE WATER RELOCATION PLANS.

CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C9	25.00'	89°57'53"	39.25'	24.98'
C10	25.00'	90°01'21"	39.28'	25.01'
C11	25.00'	90°00'48"	39.28'	25.01'
C12	25.00'	89°59'58"	39.27'	25.00'
C13	25.00'	30°41'00"	13.39'	6.86'
C14	25.00'	30°46'41"	13.43'	6.88'
C15	25.00'	29°52'25"	13.03'	6.67'
C45	10.00'	49°29'21"	8.64'	4.61'
C46	10.00'	49°29'21"	8.64'	4.61'
C47	10.00'	49°20'13"	8.61'	4.59'
C48	10.00'	49°25'39"	8.63'	4.60'
C49	10.00'	49°29'28"	8.64'	4.61'
C50	10.00'	49°29'49"	8.64'	4.61'
C51	10.00'	49°27'30"	8.63'	4.61'
C52	10.00'	49°27'30"	8.63'	4.61'
C70	25.00'	30°36'58"	13.36'	6.84'



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



- REFERENCE NOTES
- SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
 - REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

WATER SERVICE INFORMATION	
8	ACCT #149358, MTR #720263, 3/4" MTR W/ 1" DCVA
9	ACCT #149357, MTR #850906, 5/8" MTR W/ 1" DCVA
10	ACCT #3644, MTR #N/A, 5/8"
11	ACCT #3606, MTR #613128, 5/8"
12	ACCT #3645, MTR #888509, 5/8"
14	ACCT #3714, MTR #823118, 5/8" MTR W/ 1" DCVA
15	ACCT #3717, MTR #694685, 5/8" MTR W/ 1" DCVA
16	ACCT #3637, MTR #645963, 5/8" MTR W/ 1" DCVA
17	ACCT #3774, MTR #902739, 1" MTR W/ 1" DCVA

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE
RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT:####
LVVWD APPROVED FIRE FLOW ### GPM AT 20 P.S.I. RESIDUAL

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 875-7550
FAX: (702) 875-7550
WWW.VTVNV.COM

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE:
30% Submittal

PREPARED FOR
CITY OF LAS VEGAS

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

ROADWAY PLAN & PROFILE

REVISIONS

NO.	DATE	REVISIONS

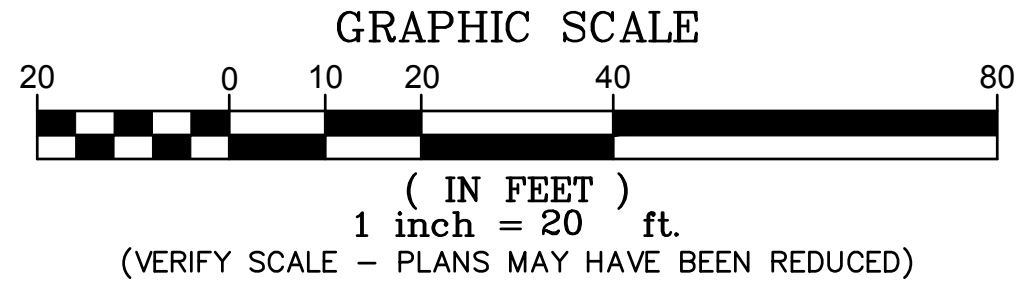
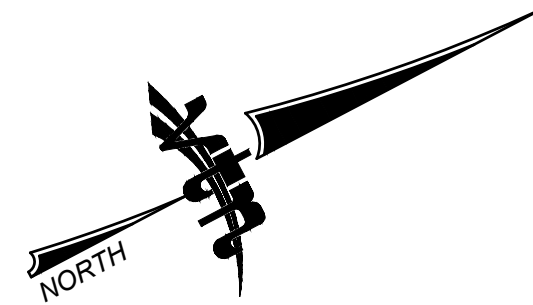
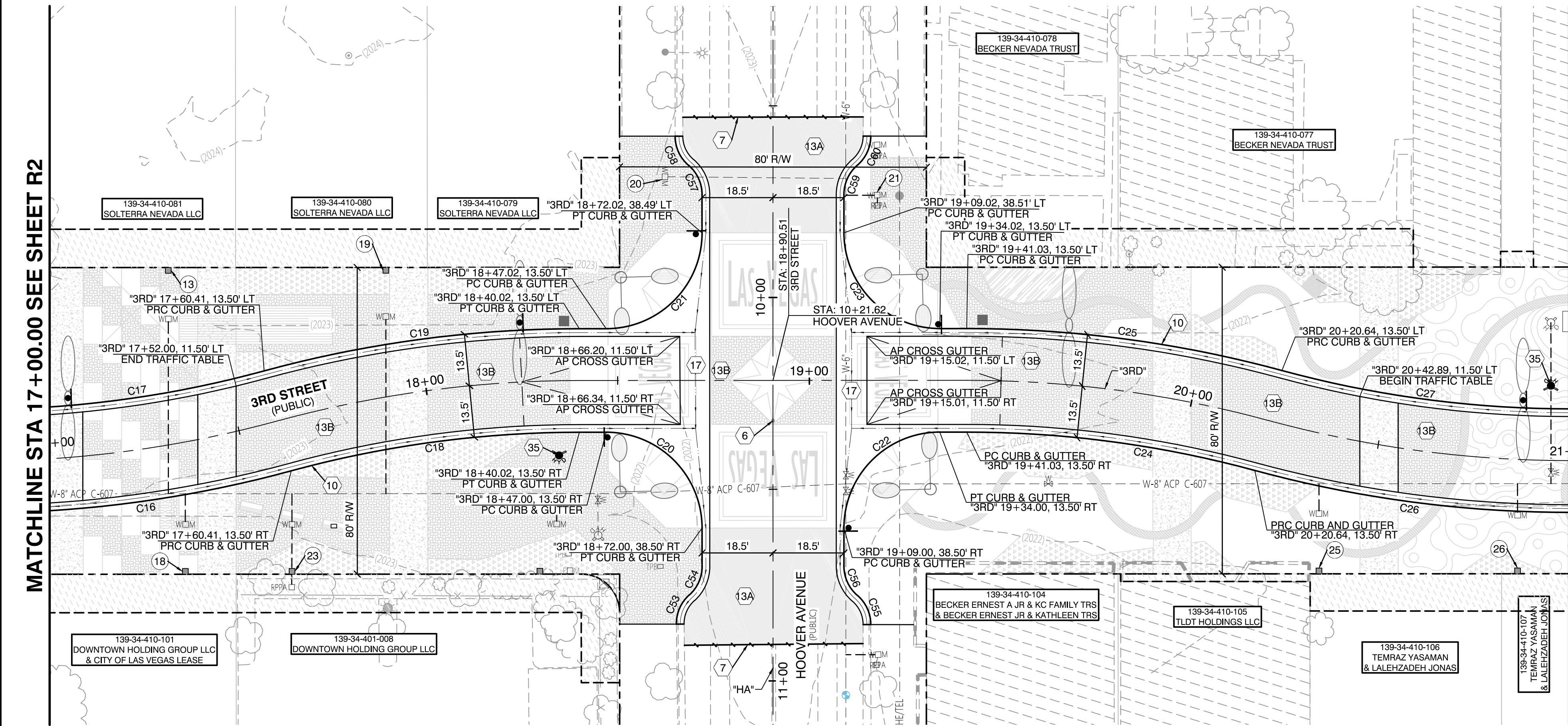
SHEET

R2
14 OF 61
DRAWING NO.

NOT FOR CONSTRUCTION
ROBERT HOSKINS III
Professional Engineer
No. 10112
State of Nevada

MATCHLINE STA 17+00.00 SEE SHEET R2

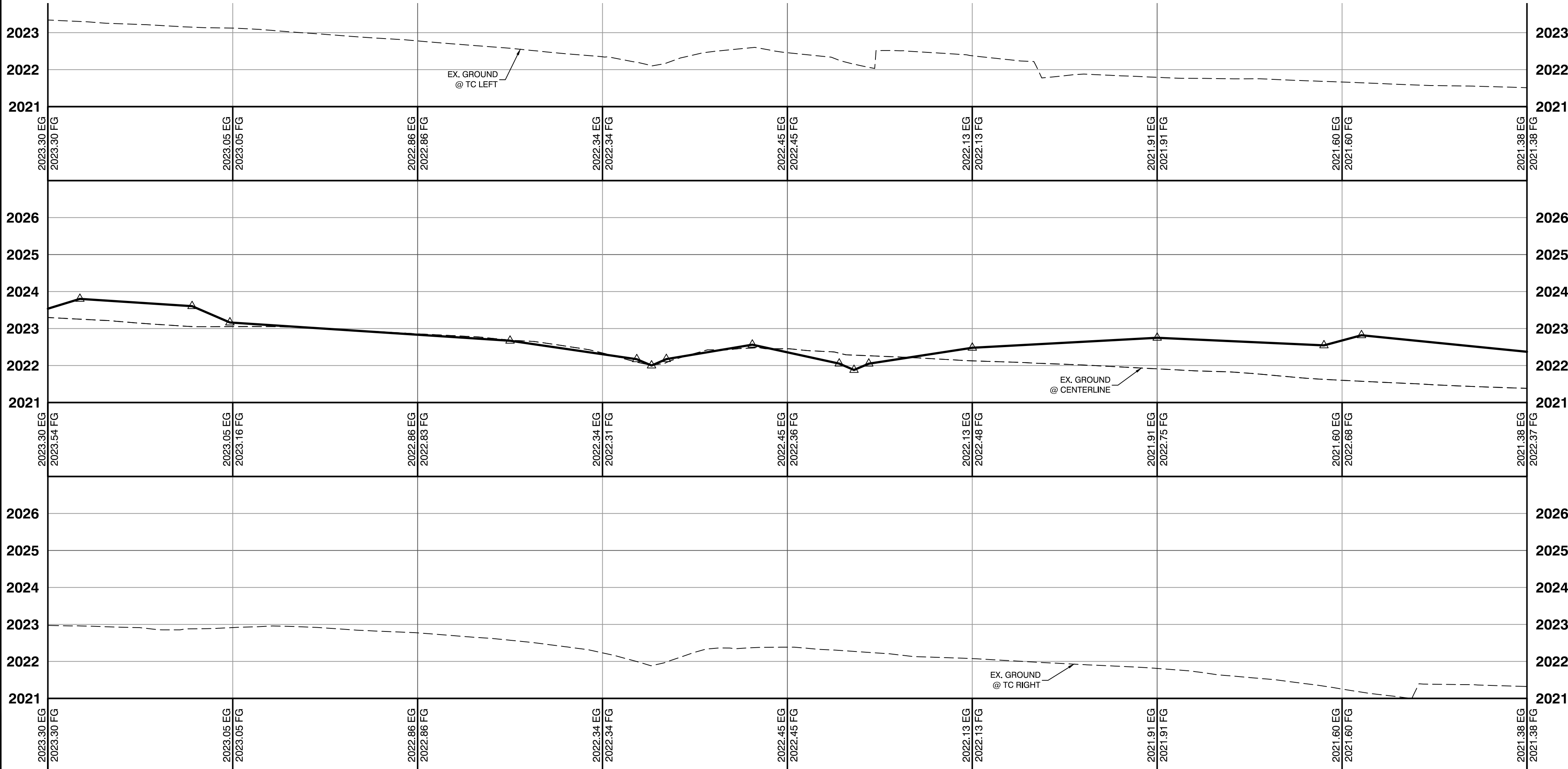
MATCHLINE STA 21+00.00 SEE SHEET R4



- PAVEMENT LIMITS
- PROPOSED AEP
- PAVERS
- PAVERS (2)
- PAVERS (3)
- SPECIALTY CONCRETE
- PLANTING HATCH
- EJ HATCH
- EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING UTILITY BOX
- EXISTING OVERHEAD ELECTRIC
- EXISTING STREETLIGHT CONDUIT
- EXISTING FENCE
- EXISTING CURB
- EXISTING SIDEWALK
- RIGHT-OF-WAY LINE
- EXISTING PROPERTY LINE
- PROPOSED CURB
- PROPOSED LIP
- PROPOSED FLOWLINE

- 6 SURVEY MONUMENT, P.I.P.
- 7 SAWCUT AND MATCH EX. AC.
- 10 INSTALL 24" "R" TYPE CURB & GUTTER PER CCUSD NO. 217 S2.
- 13A INSTALL 5" AC PAVEMENT OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE TYPICAL SECTIONS FOR DETAILS.
- 13B INSTALL PAVERS OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE HARDSCAPE PLANS FOR DETAILS.
- 17 INSTALL 8" CROSS GUTTER PER USD NO. 228.
- 35 RELOCATED FIRE HYDRANT. SEE WATER RELOCATION PLANS.

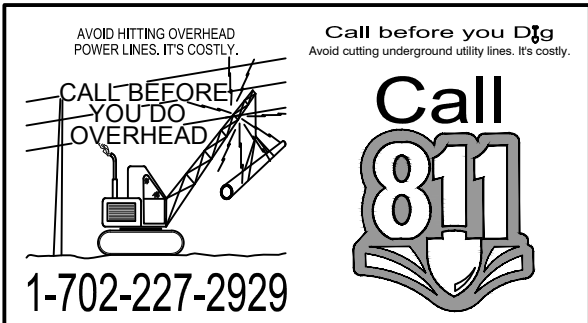
CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C16	313.50'	14°17'58"	78.24'	39.32'
C17	286.50'	15°12'13"	76.02'	38.24'
C18	286.50'	15°12'13"	76.02'	38.24'
C19	313.50'	15°12'13"	83.19'	41.84'
C20	25.00'	90°00'34"	39.27'	25.00'
C21	25.00'	89°58'27"	39.26'	24.99'
C22	25.00'	89°59'26"	39.27'	25.00'
C23	25.00'	90°01'33"	39.28'	25.01'
C24	286.50'	15°12'13"	76.02'	38.24'
C25	313.50'	15°12'13"	83.19'	41.84'
C26	313.50'	15°12'13"	83.19'	41.84'
C27	286.50'	15°12'13"	76.02'	38.24'
C53	10.00'	49°01'17"	8.56'	4.56'
C54	10.00'	48°16'57"	8.43'	4.48'
C55	10.00'	49°28'31"	8.64'	4.61'
C56	10.00'	49°23'35"	8.62'	4.60'
C57	10.00'	49°31'24"	8.64'	4.61'
C58	10.00'	49°31'24"	8.64'	4.61'
C59	10.00'	49°26'42"	8.63'	4.60'
C60	10.00'	49°26'42"	8.63'	4.60'



WATER SERVICE INFORMATION	
13	ACCT #3753, MTR #949158, 5/8"
18	ACCT #3623, MTR #788232, 5/8"
19	ACCT #3778, MTR #646029, 5/8"
20	ACCT #3642, MTR #N/A, 5/8"
21	ACCT #800111, MTR #801045, 3/4" MTR W/ 1" RPPA
23	ACCT #3586, MTR #986468, 5/8" MTR W/ 1" RPPA
24	ACCT #800112, MTR #994207, 3/4" MTR W/ 1" RPPA
25	ACCT #3659, MTR #N/A, 5/8"
26	ACCT #3658, MTR #N/A, 5/8"



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



REFERENCE NOTES	
1.	SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
2.	REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.
LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE	
RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.	
LAS VEGAS VALLEY WATER DISTRICT APPROVAL	
APPROVED FOR CONSTRUCTION	
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER DATE: _____ PROJECT: ##### LVVWD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL	

PREPARED BY
CITY OF LAS VEGAS

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE:
30% Submittal

2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 875-7550
FAX: (702) 875-7550
WWW.VTNV.COM

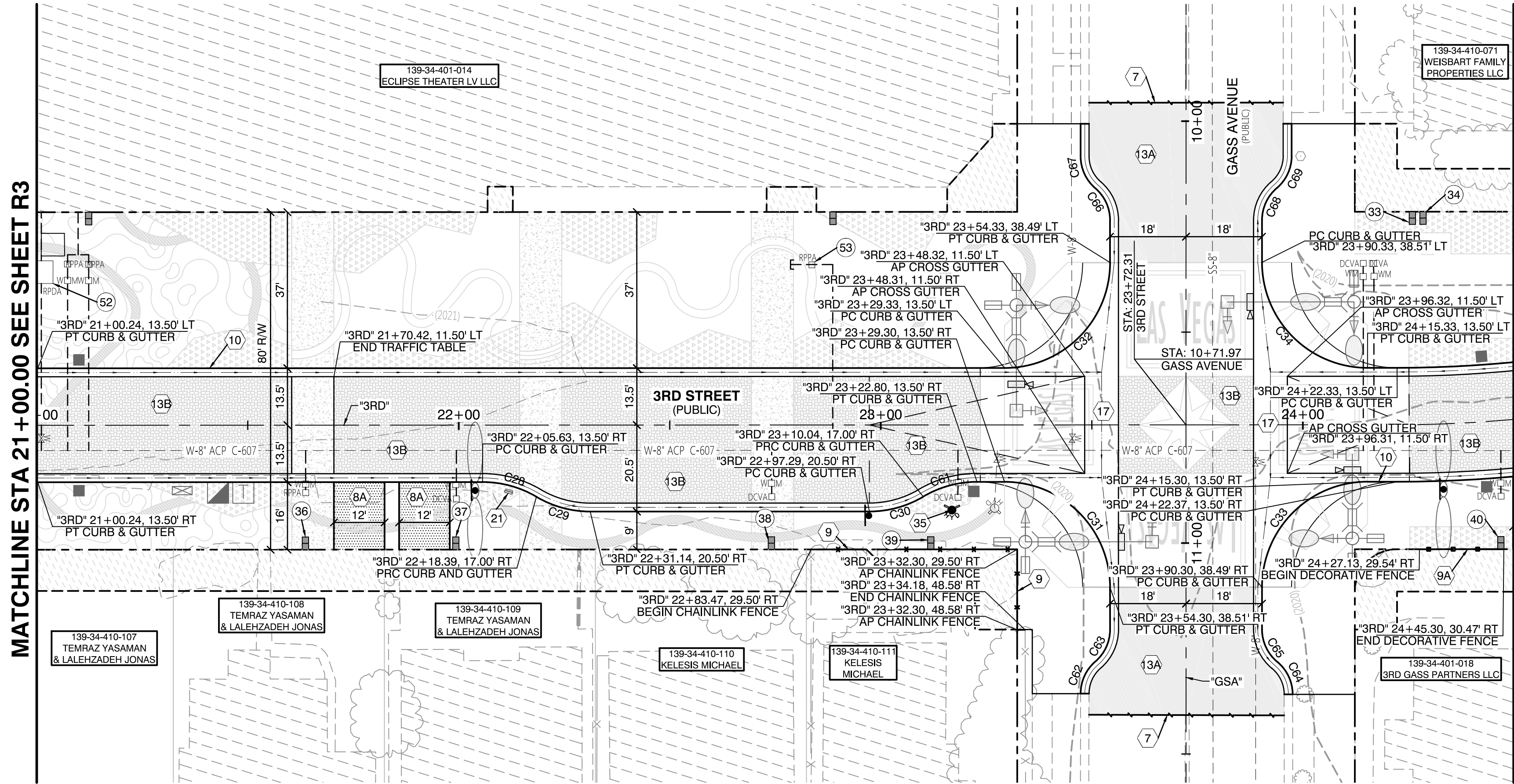
DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89101-1805
702-229-8272

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

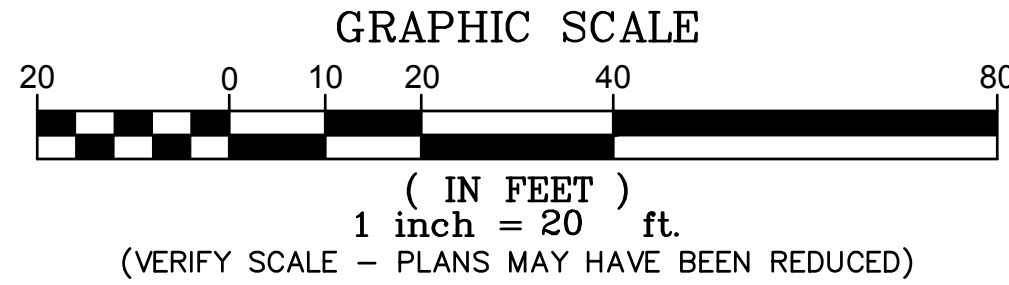
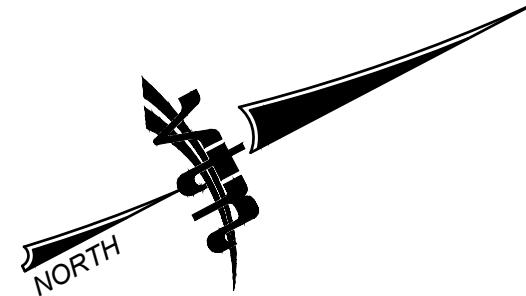
ROADWAY PLAN & PROFILE

12/21/16

15 OF 61



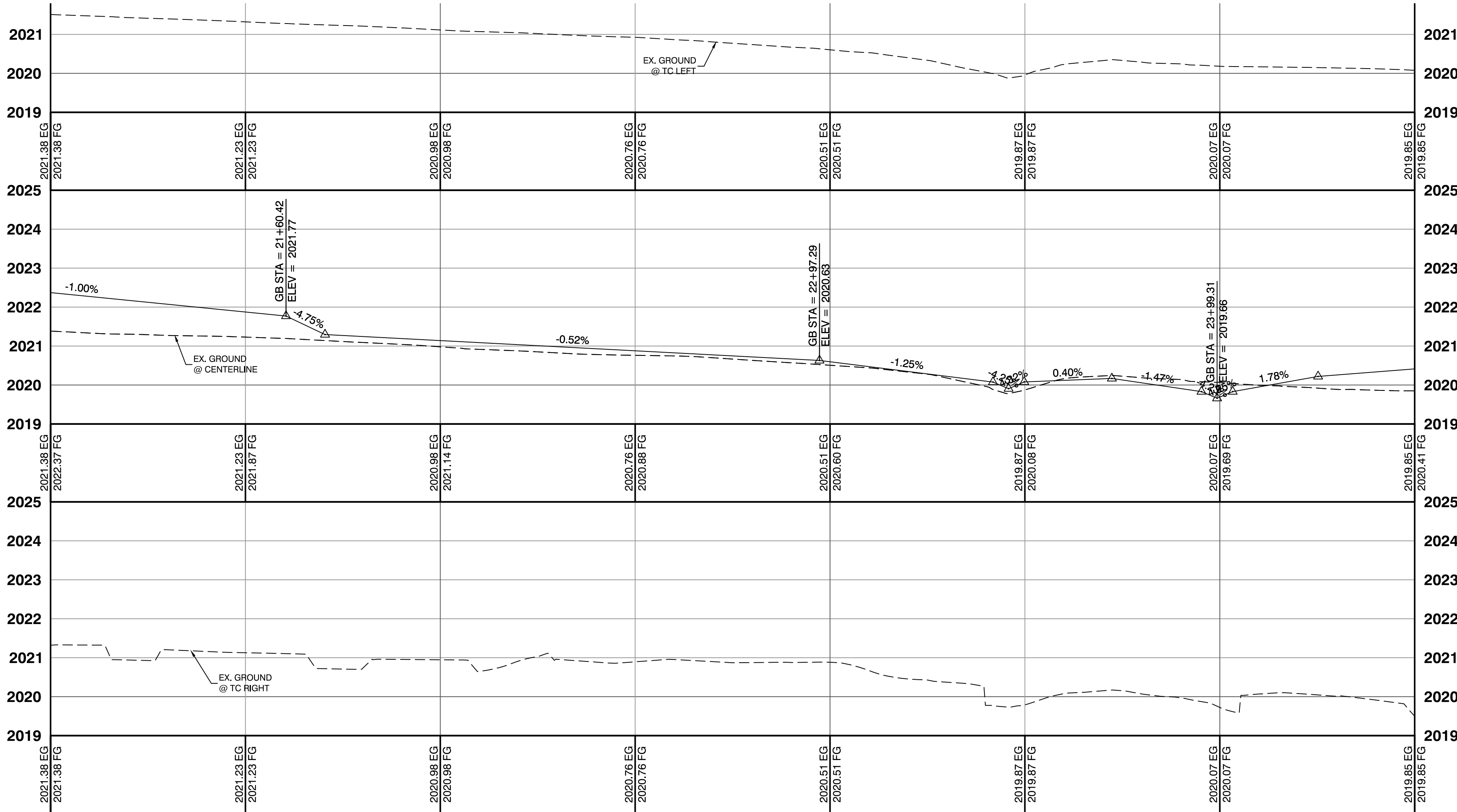
MATCHLINE STA 24 + 50.00 SEE SHEET R5



- LEGEND**
- PAVEMENT LIMITS
 - DRIVEWAY LIMITS
 - PROPOSED AEP
 - PAVERS
 - PAVERS (2)
 - PAVERS (3)
 - SPECIALTY CONCRETE
 - PLANTING HATCH
 - EJ HATCH
 - EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
 - EXISTING LIGHT POLE
 - EXISTING UTILITY POLE
 - EXISTING WATER VALVE
 - EXISTING WATER METER
 - EXISTING FIRE HYDRANT
 - EXISTING UTILITY BOX
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING STREETLIGHT CONDUIT
 - EXISTING FENCE
 - EXISTING CURB
 - EXISTING SIDEWALK
 - RIGHT-OF-WAY LINE
 - EXISTING PROPERTY LINE
 - PROPOSED CURB
 - PROPOSED LIP
 - PROPOSED FLOWLINE

- ROADWAY & PAVING NOTES**
- SAWCUT AND MATCH EX. AC.
 - INSTALL DRIVEWAY PER DOWNTOWN CENTENNIAL STANDARDS.
 - INSTALL 4' CHAINLINK FENCE, MATCH EXISTING.
 - INSTALL 4' DECORATIVE FENCE, MATCH EXISTING.
 - INSTALL 5' AC PAVEMENT OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE TYPICAL SECTIONS FOR DETAILS.
 - INSTALL PAVERS OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE HARDSCAPE PLANS FOR DETAILS.
 - INSTALL PAVERS. SEE PAVEMENT SECTION #2 ON SHEET TY1.
 - INSTALL 8' CROSS GUTTER PER USD NO. 228.
 - INSTALL MULTI-BAY PARKING METER ANCHOR BASE. PROVIDED BY THE CITY OF LAS VEGAS. TO BE INSTALLED IN AMENITY ZONE. EXACT LOCATION TO BE DETERMINED BY THE OWNER OR AN OWNER'S ON-SITE REPRESENTATIVE.
 - RELOCATED FIRE HYDRANT. SEE WATER RELOCATION PLANS.

CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C28	25.00'	30°41'00"	13.39'	6.86'
C29	25.00'	30°41'00"	13.39'	6.86'
C30	25.00'	30°41'00"	13.39'	6.86'
C31	25.00'	90°01'00"	39.28'	25.01'
C32	25.00'	89°58'16"	39.26'	24.99'
C33	25.00'	89°59'00"	39.26'	24.99'
C34	25.00'	90°01'44"	39.28'	25.01'
C61	25.00'	30°41'00"	13.39'	6.86'
C62	10.00'	49°23'24"	8.62'	4.60'
C63	10.00'	49°23'49"	8.62'	4.60'
C64	10.00'	50°19'26"	8.78'	4.70'
C65	10.00'	50°25'06"	8.80'	4.71'
C66	10.00'	49°22'56"	8.62'	4.60'
C67	10.00'	49°22'36"	8.62'	4.60'
C68	10.00'	49°32'04"	8.65'	4.61'
C69	10.00'	49°31'44"	8.64'	4.61'



MATCHLINE STA 24 + 50.00 SEE SHEET R5



WATER SERVICE INFORMATION	
33	ACCT #149405, MTR #957286, 5/8" MTR W/ 1" DCVA
34	ACCT #149406, MTR #903002
35	ACCT #3712, MTR #646024, 5/8" MTR
36	ACCT #3761, MTR #988310, 5/8" MTR W/ 1" RPPA
37	ACCT #3747, MTR #614668, 5/8" MTR W/ 1" DCVA
38	ACCT #3822, MTR #942775, 5/8" MTR W/ 1" DCVA
39	ACCT #3833, MTR #615774, 5/8" MTR W/ 1" DCVA
40	ACCT #3583, MTR #701176, 5/8" MTR W/ 1" DCVA
42	ACCT #827322, 6" RPDA
43	ACCT #827319, 5/8" MTR W/ 1" RPPA

- REFERENCE NOTES**
- SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
 - REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE

RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT:####
LVVWD APPROVED FIRE FLOW ### GPM AT 20 P.S.I. RESIDUAL

30% Submittal
"NOT FOR CONSTRUCTION"
December 2016

PREPARED BY
CITY OF LAS VEGAS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 875-7550
FAX: (702) 875-7550
WWW.VTNV.COM

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE:
30% Submittal

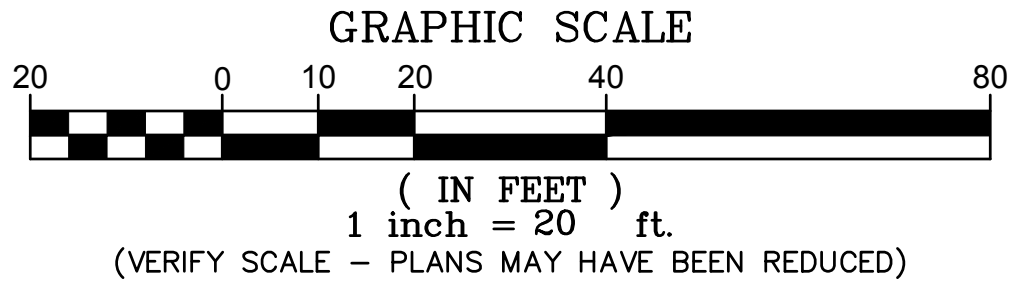
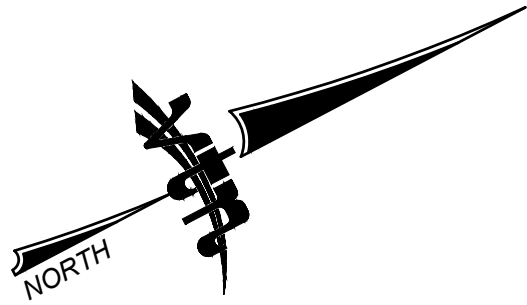
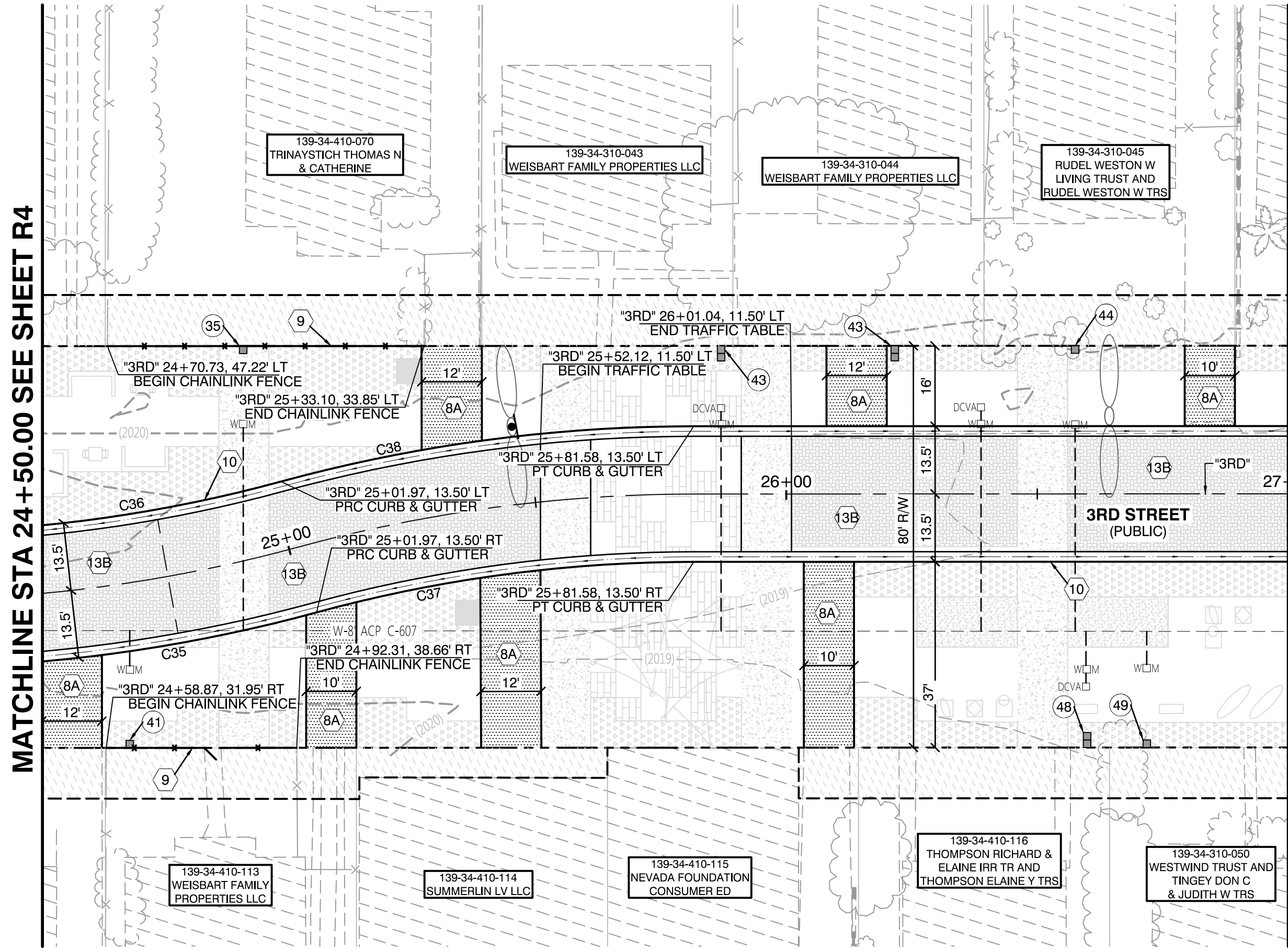
DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

ROADWAY PLAN & PROFILE

SHEET
R4
16 OF 61
DRAWING NO.

DEPARTMENT OF PUBLIC WORKS
333 N. RANCHO DRIVE
LAS VEGAS, NV 89101
702-229-8272

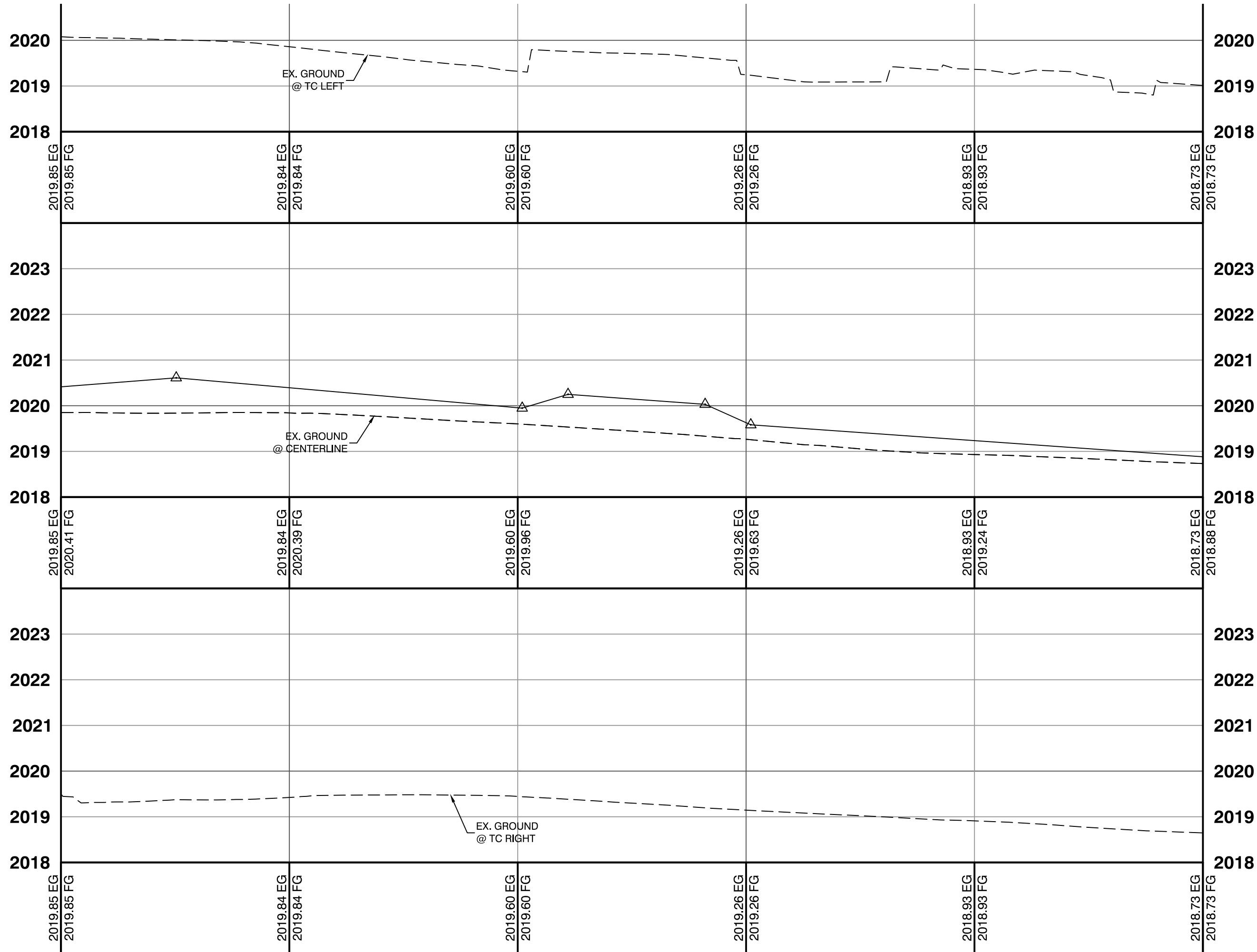
NO. DATE
REVISIONS



- LEGEND**
- DRIVEWAY LIMITS
 - PROPOSED AEP
 - PAVERS
 - PAVERS (2)
 - SPECIALTY CONCRETE
 - PLANTING HATCH
 - TURF HATCH
 - EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
 - EXISTING LIGHT POLE
 - EXISTING UTILITY POLE
 - EXISTING WATER VALVE
 - EXISTING WATER METER
 - EXISTING FIRE HYDRANT
 - EXISTING UTILITY BOX
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING STREETLIGHT CONDUIT
 - EXISTING FENCE
 - EXISTING CURB
 - EXISTING SIDEWALK
 - RIGHT-OF-WAY LINE
 - EXISTING PROPERTY LINE
 - PROPOSED CURB
 - PROPOSED LIP
 - PROPOSED FLOWLINE

- ROADWAY & PAVING NOTES**
- INSTALL DRIVEWAY PER DOWNTOWN CENTENNIAL STANDARDS.
 - INSTALL 4' CHAINLINK FENCE, MATCH EXISTING.
 - INSTALL 24" "R" TYPE CURB & GUTTER PER CUUSD NO. 217 S2.
 - INSTALL PAVERS OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE HARDSCAPE PLANS FOR DETAILS.

CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C35	313.50'	15°12'13"	83.19'	41.84'
C36	286.50'	15°12'41"	76.06'	38.26'
C37	286.50'	15°12'13"	76.02'	38.24'
C38	313.50'	15°12'13"	83.19'	41.84'



WATER SERVICE INFORMATION	
35	ACCT #3712, MTR #646024, 5/8" MTR W/ 1" DCVA
41	ACCT #3502, MTR #646040, 5/8"
42	ACCT #3764, MTR #609698, 3/4" MTR W/ 1" DCVA
43	ACCT #3838, MTR #637951, 1" MTR W/ 1" DCVA
44	ACCT #3643, MTR #635534, 5/8"
48	ACCT #149404, MTR #902718, 1" MTR W/ 1" DCVA
49	ACCT #3680, MTR #647273, 3/4"

Call before you Dig
UnderGround
1-702-432-5300
FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION

Call before you Dig
1-702-227-2929

- REFERENCE NOTES**
- SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
 - REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE
RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: _____ PROJECT: #####
LVVWD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL

PREPARED BY
CITY OF LAS VEGAS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 875-7550
FAX: (702) 875-7550
WWW.VTNV.COM

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE:
30% Submittal

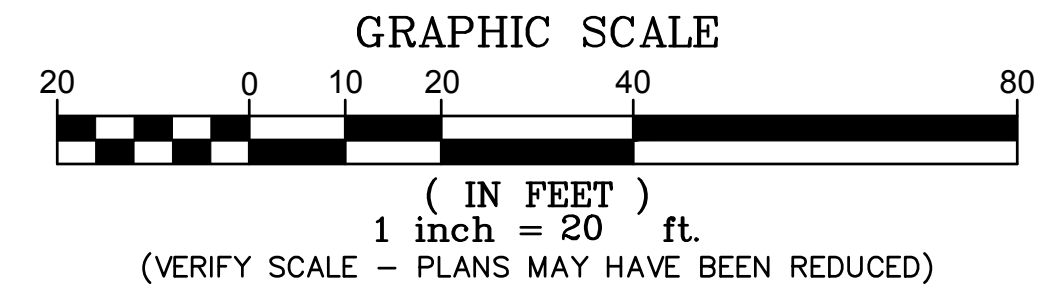
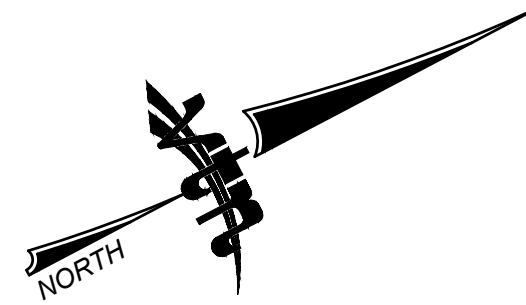
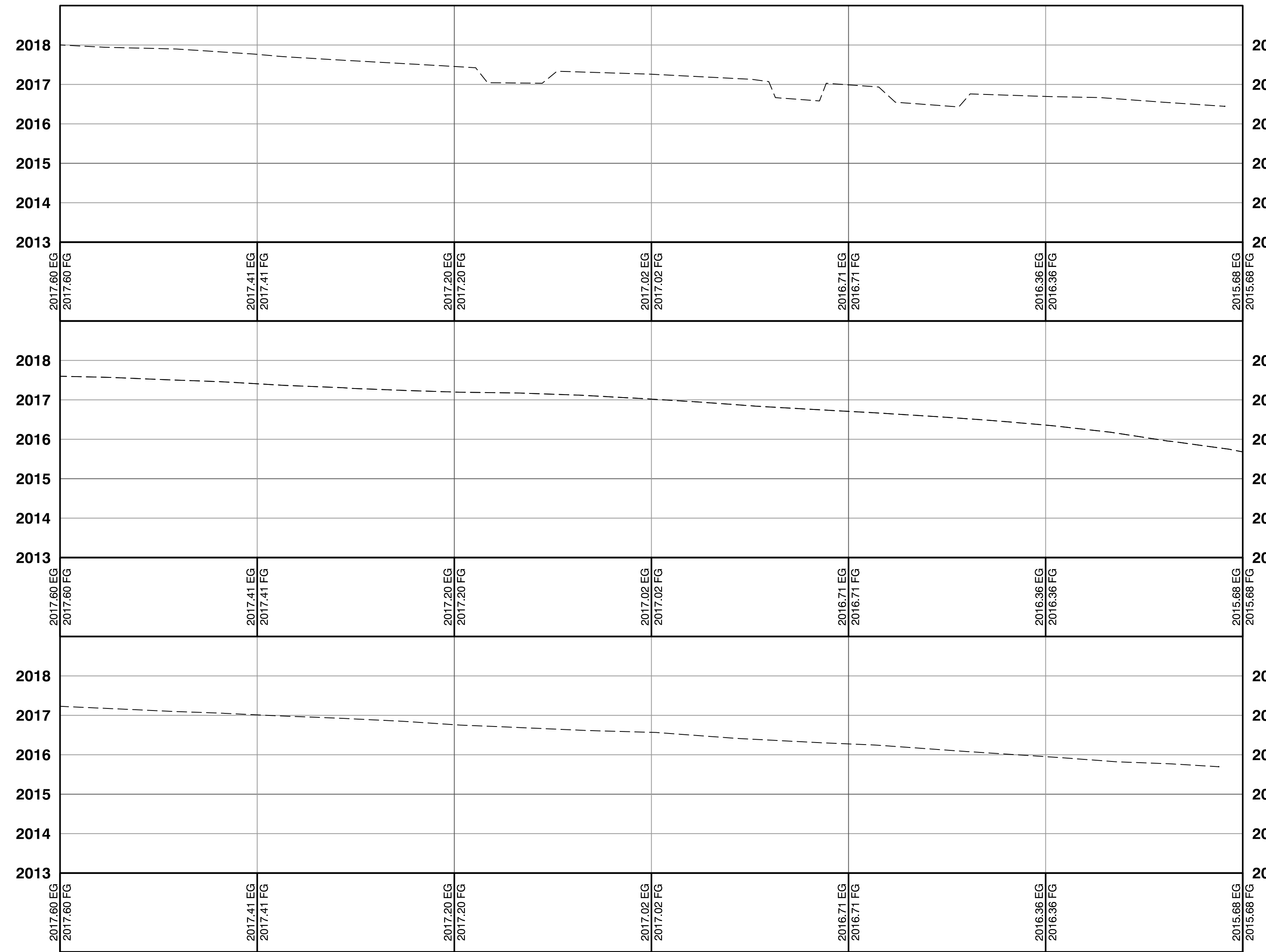
NO. | DATE | REVISIONS

PREPARED FOR
CITY OF LAS VEGAS
DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

ROADWAY PLAN & PROFILE

SHEET
R5
17 OF 61
DRAWING NO.

NOT FOR CONSTRUCTION
ROBERT HOSKINS III
REGISTERED PROFESSIONAL ENGINEER
No. 10112
STATE OF NEVADA
CIVIL



- | LEGEND | |
|---|---|
|  | DRIVEWAY LIMITS |
|  | PROPOSED AEP |
|  | PAVERS |
|  | SPECIALTY CONCRETE |
|  | PLANTING HATCH |
|  | TURF HATCH |
|  | EXISTING PARKING METER TO BE
RELOCATED. CONTRACTOR TO
COORDINATE WITH THE CITY. |
|  | EXISTING LIGHT POLE |
|  | EXISTING UTILITY POLE |
|  | EXISTING WATER VALVE |
| W=M | EXISTING WATER METER |
|  | EXISTING FIRE HYDRANT |
|  | EXISTING UTILITY BOX |
| --- GHE --- | EXISTING OVERHEAD ELECTRIC |
| --- STL --- | EXISTING STREETLIGHT CONDUIT |
| — X — | EXISTING FENCE |
| ---- | EXISTING CURB |
| ----- | EXISTING SIDEWALK |
| ===== | RIGHT-OF-WAY LINE |
| ===== | EXISTING PROPERTY LINE |
| ===== | PROPOSED CURB |
| ===== | PROPOSED LIP |
| ===== | PROPOSED FLOWLINE |



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



REFERENCE NOTES

1. SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
2. REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE

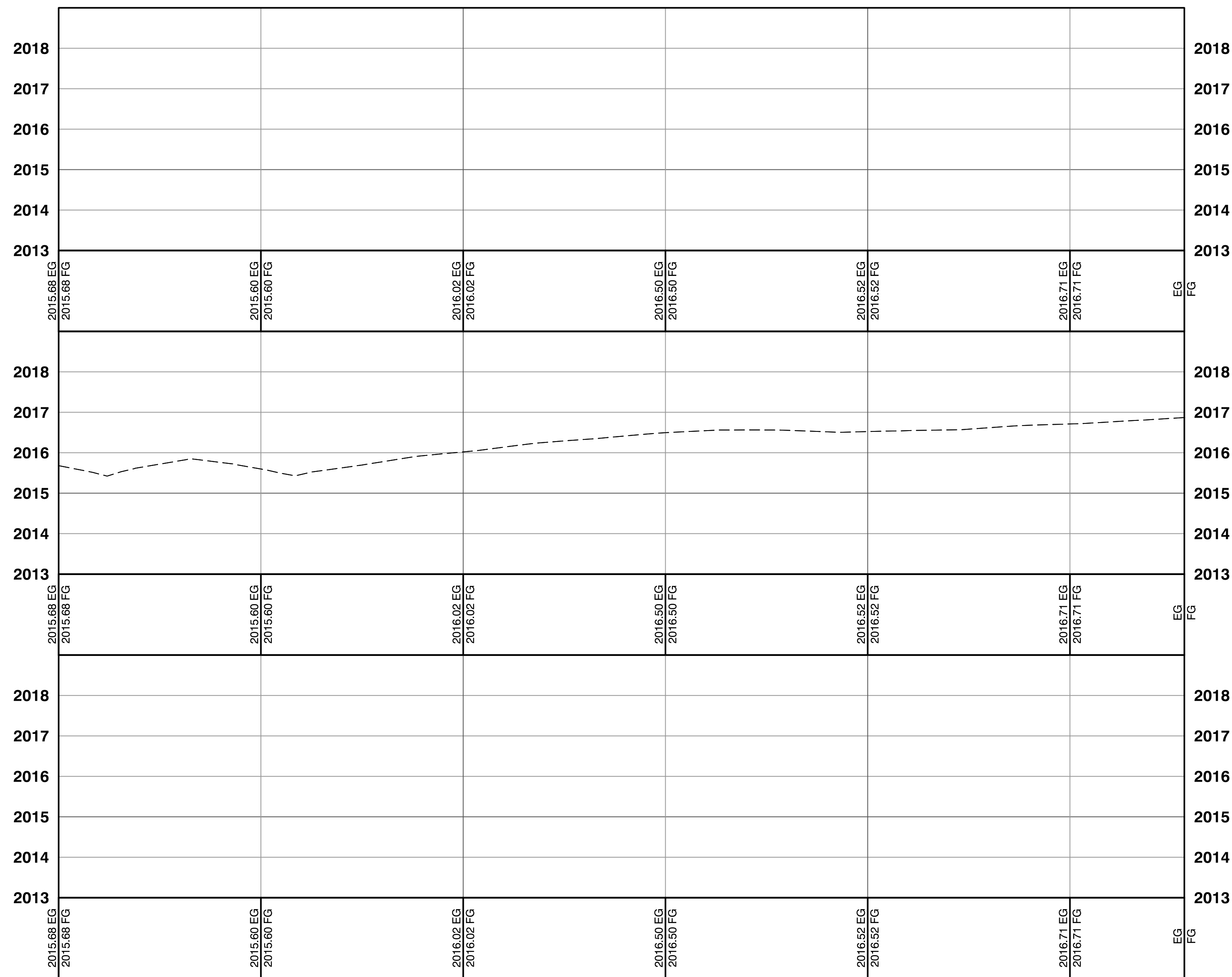
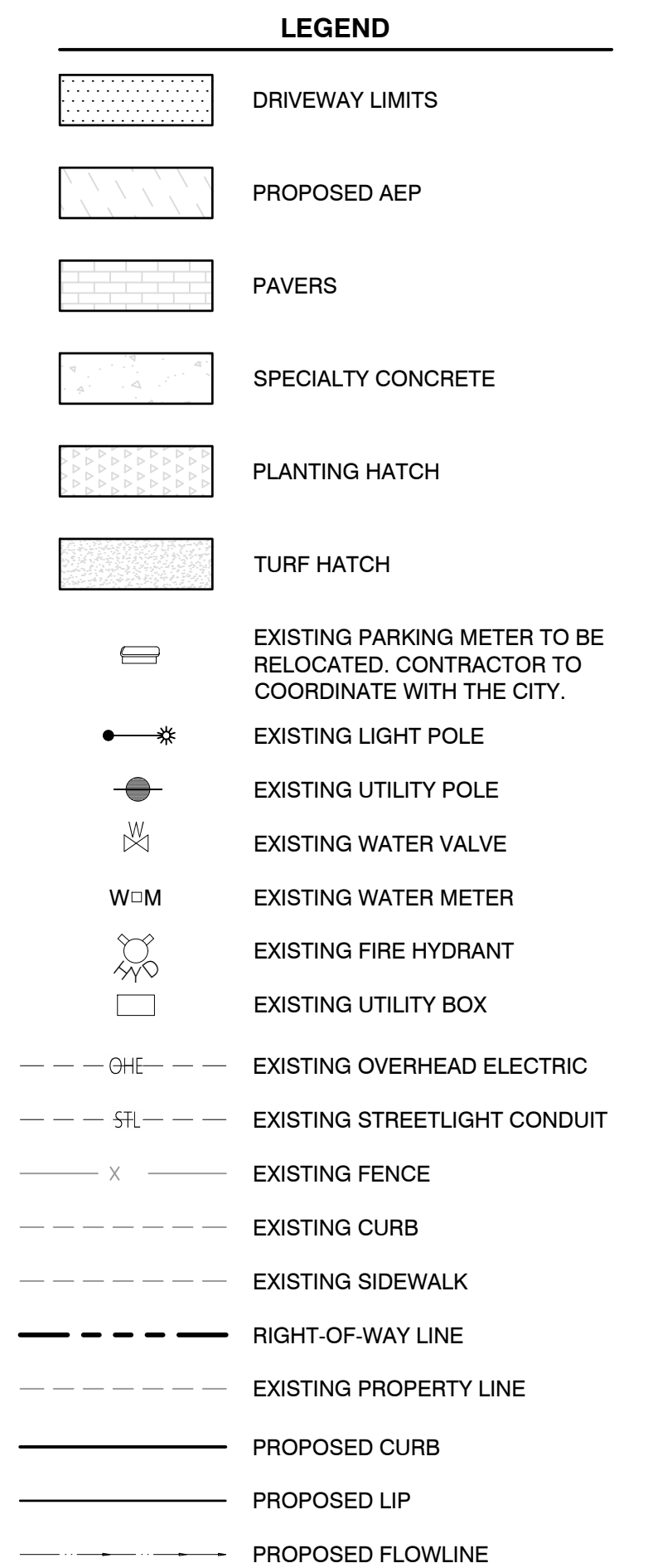
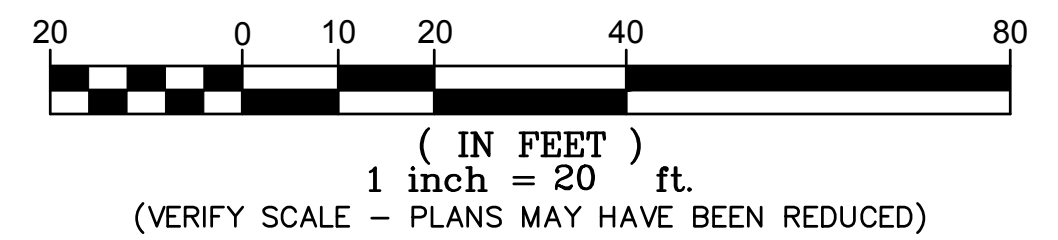
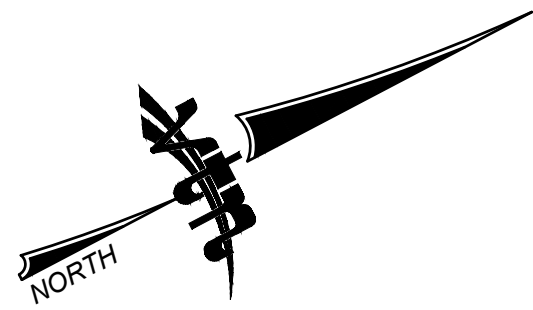
RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: _____ PROJECT: #####
LVVWD APPROVED FIRE FLOW ##### GPM AT 20 P.S.I. RESIDUAL

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS 3RD STREET-PHASE 2, CHARLESTON TO BONNEVILLE ROADWAY PLAN & PROFILE		PREPARED FOR CITY OF LAS VEGAS		2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148 PHONE (702) 362-2597 FAX (702) 362-2597 WEB SITE WWW.VTNV.COM	
SHEET		H# 54616		BID# ----	
DATE: --		DESIGNED BY: MD		DEPARTMENT OF PUBLIC WORKS 333 N. RANCHO DRIVE LAS VEGAS, NV 89106 702-529-6272	
SUBMITTAL STAGE:		DRAWN BY: ND		NO. DATE	
30% Submittal		CHECKED BY: LL		REVISIONS	



30% Submittal
"NOT FOR CONSTRUCTION"
December 2016



REFERENCE NOTES

1. SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
2. REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE

RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: _____ PROJECT: ####
LVVWD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL


PREPARED BY
 2727 SOUTH RAINBOW BOULEVARD
 LAS VEGAS, NEVADA 89146-5148
 PH. (702) 873-7550
 FAX (702) 362-2597 WEB SITE
 WWW.VMTNV.COM



PREPARED FOR
CITY OF LAS VEGAS

BID# ---

DESIGNED BY: MD
DRAWN BY: ND

CHECKED BY: LL

**DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE**

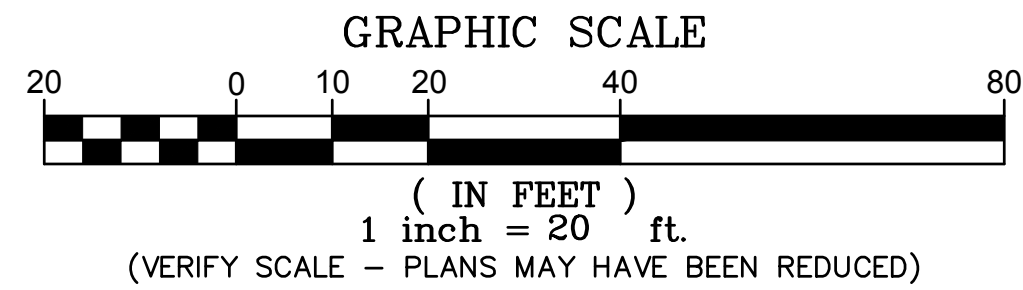
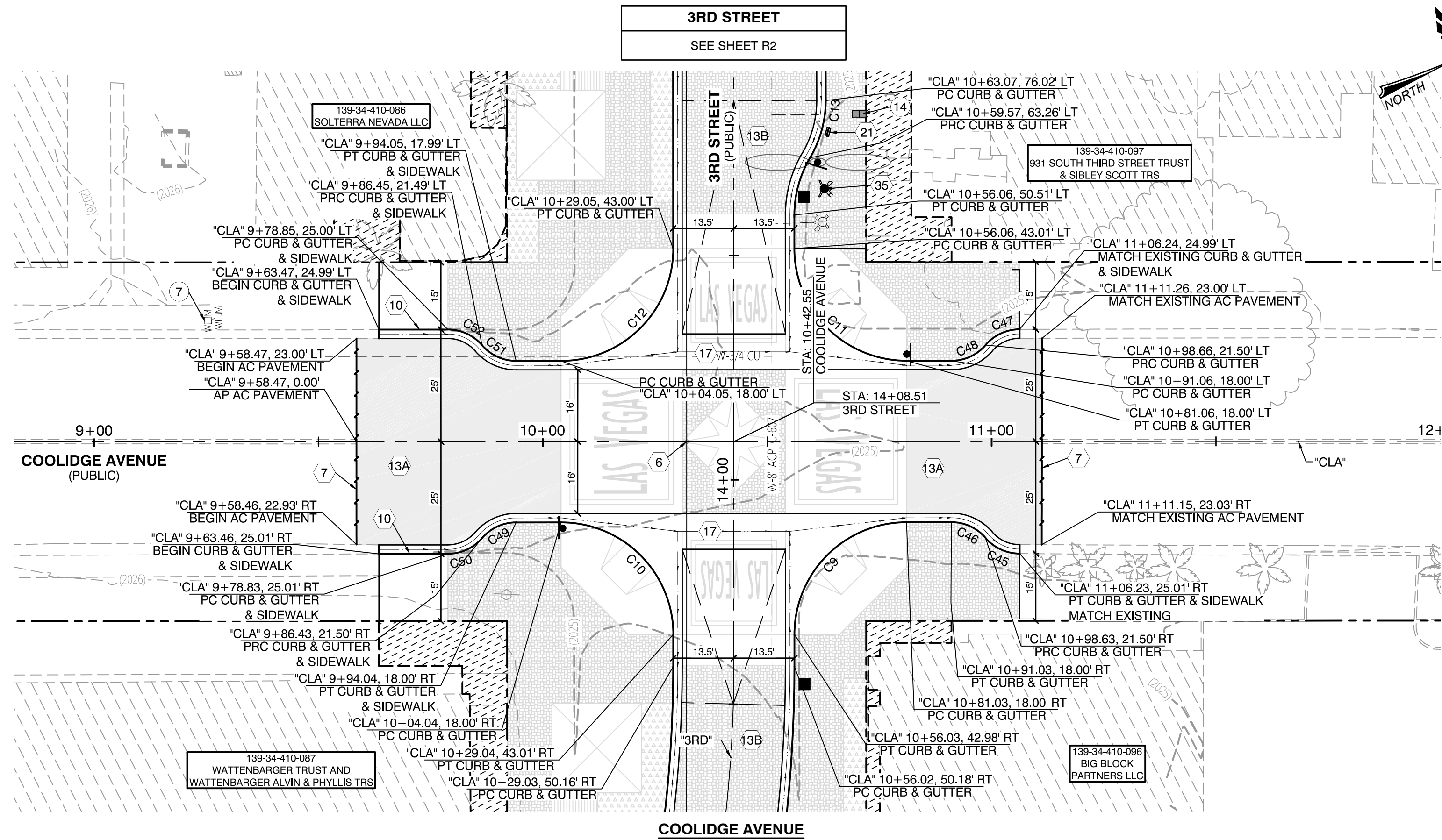
ROADWAY PLAN & PROFILE

SHEET



SHEET

R8
OF **61**
DRAWING NO.



- LEGEND**
- DRIVEWAY LIMITS
 - PROPOSED AEP
 - PAVERS
 - SPECIALTY CONCRETE
 - PLANTING HATCH
 - TURF HATCH
 - EXISTING PARKING METER TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH THE CITY.
 - EXISTING LIGHT POLE
 - EXISTING UTILITY POLE
 - EXISTING WATER VALVE
 - EXISTING WATER METER
 - EXISTING FIRE HYDRANT
 - EXISTING UTILITY BOX
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING STREETLIGHT CONDUIT
 - EXISTING FENCE
 - EXISTING CURB
 - EXISTING SIDEWALK
 - RIGHT-OF-WAY LINE
 - EXISTING PROPERTY LINE
 - PROPOSED CURB
 - PROPOSED LIP
 - PROPOSED FLOWLINE

- ROADWAY & PAVING NOTES**
- 6 SURVEY MONUMENT, P.I.P.
 - 7 SAWCUT AND MATCH EX. AC.
 - 10 INSTALL 24" "R" TYPE CURB & GUTTER PER CCUSD NO. 217 S2.
 - 13A INSTALL 5" AC PAVEMENT OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE TYPICAL SECTIONS FOR DETAILS.
 - 13B INSTALL PAVERS OVER 14" TYPE II AGGREGATE BASE OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER. SEE HARDSCAPE PLANS FOR DETAILS.
 - 17 INSTALL 8" CROSS GUTTER PER USD NO. 228.
 - 21 INSTALL MULTI-BAY PARKING METER ANCHOR BASE, PROVIDED BY THE CITY OF LAS VEGAS, TO BE INSTALLED IN AMENITY ZONE. EXACT LOCATION TO BE DETERMINED BY THE OWNER OR AN OWNERS ON-SITE REPRESENTATIVE.
 - 35 RELOCATED FIRE HYDRANT. SEE WATER RELOCATION PLANS.

CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C9	25.00'	89°57'53"	39.25'	24.98'
C10	25.00'	90°01'21"	39.28'	25.01'
C11	25.00'	90°00'48"	39.28'	25.01'
C12	25.00'	89°59'58"	39.27'	25.00'
C13	25.00'	30°41'00"	13.39'	6.86'
C45	10.00'	49°29'21"	8.64'	4.61'
C46	10.00'	49°29'21"	8.64'	4.61'
C47	10.00'	49°20'13"	8.61'	4.59'
C48	10.00'	49°25'39"	8.63'	4.60'
C49	10.00'	49°29'28"	8.64'	4.61'
C50	10.00'	49°29'49"	8.64'	4.61'
C51	10.00'	49°27'30"	8.63'	4.61'
C52	10.00'	49°27'30"	8.63'	4.61'

WATER SERVICE INFORMATION	
7	ACCT #3705, MTR #332001, 5/8" MTR W/ 1" DCVA
14	ACCT #3714, MTR #823118, 5/8" MTR W/ 1" DCVA

REFERENCE NOTES

- SEE HARDSCAPE PLANS FOR PLANTER BOX LOCATIONS.
- REFER TO STREET LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.

LAS VEGAS VALLEY WATER DISTRICT REMOVAL NOTE

RELOCATED SERVICES WITH LESS THAN 1" LATERALS MUST HAVE A MINIMUM OF 1" LATERALS.

LAS VEGAS VALLEY WATER DISTRICT APPROVAL

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: PROJECT:####
LVVWD APPROVED FIRE FLOW #### GPM AT 20 P.S.I. RESIDUAL

FAST

Call before you Dig
UnderGround
1-702-432-5300
FREEMAN AND ARTERIAL
SYSTEM OF TRANSPORTATION

30% Submittal
"NOT FOR CONSTRUCTION"
December 2016

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DIG
1-800-4-A- Dig
Call before you Dig
1-702-227-2929

PREPARED BY: **CITY OF LAS VEGAS**

DESIGNED BY: MD
DRAWN BY: ND
CHECKED BY: LL

DATE: --
SUBMITTAL STAGE: **30% Submittal**

DOWNTOWN PEDESTRIAN AND BICYCLE IMPROVEMENTS
3RD STREET-PHASE 2
CHARLESTON TO BONNEVILLE

ROADWAY PLAN & PROFILE

SHEET **R9**
21 OF 61
DRAWING NO.

REVISIONS

NO. DATE