

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 EDITION; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA, LATEST 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'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 SATISFACTORILY 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 RAMP AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND 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 REVISIONS.
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 GRADINGS, 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 CERTAINITIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC FINAL LOCATION MAP FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

OR

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 PRIOR TO 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

CITY OF LAS VEGAS FIRE DEPARTMENT 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 § 331.0, § 331.2]
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 100.3]
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 § C102.4]
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 24 FT 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.

EFFECTIVE DATE: MARCH 1ST, 2016

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. POLYUNIL (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" 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 SEWER REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

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 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 REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN 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

ADDITIONAL NOTES LOCATIONS

CITY OF LAS VEGAS TRAFFIC NOTES SHEET 20

CITY OF LAS VEGAS STREETLIGHT NOTES SHEET 20

DEVIATIONS FROM STANDARDS

NONE

ESTIMATE OF QUANTITIES

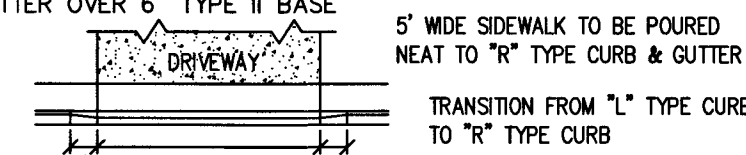
ITEMS

QUANTITY

TOTAL
PRIVATE PUBLIC

STREET IMPROVEMENTS

1. 2.5" AC PAVEMENT W/ 4.5" TYPE II BASE 623 SY
2. 3.5" AC PAVEMENT W/ 5" TYPE II BASE 10,982 SY
3. 4" THICK CONCRETE SIDEWALK W/ 5" TYPE II BASE 1,559 SF
4. 8" WIDE CONCRETE VALLEY GUTTER W/ 10" TYPE II BASE 15,903 SF
5. PORTION OF CONCRETE DRIVEWAY W/ "R" TYPE CURB AND GUTTER OVER 6" TYPE II BASE 611 SF



6. 24" "L" TYPE CURB AND GUTTER W/ 6" TYPE II BASE 312 LF
7. "A" TYPE CURB PER DETAIL J/SHEET 6 541 LF
8. SIDEWALK RAMP 7 EA

DRAINAGE IMPROVEMENTS

NONE

SEWER IMPROVEMENTS

1. 48" DIA. STANDARD SEWER MANHOLE 13 EA
2. 8" PVC SEWER MAIN 3,196 LF
3. 4" PVC SERVICE LATERAL 1 EA

WATER IMPROVEMENTS

1. 12" TAPPING SLEEVE W/ 8" TAPPING VALVE PER UDACS PLATES 1 EA
2. NO. 30, 34, 39 AND SEC. 2.24.01B 1 EA
3. 10" PVC WATER MAIN 371 LF
4. 10" X 8" REDUCER PER UDACS PLATE NO. 30 2 EA
5. 10" 5' BEND PER UDACS PLATE NO. 31 1 EA
6. 8" PVC WATER MAIN 1,416 LF
7. 8"x8" TEE PER UDACS PLATE NO. 31 1 EA
8. 8" GATE VALVE PER UDACS PLATE NO. 30 AND PLATE NO. 39 6 EA
9. 8" 5' BEND PER UDACS PLATE NO. 31 2 EA
10. 8" 11-1/4" BEND PER UDACS PLATE NO. 31 2 EA
11. FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE, 6" LATERAL, AND 8"x8" TEE PER UDACS PLATES NO. 31, 39, AND 40 4 EA
12. 2" BLOW OFF ASSEMBLY WITH CAP PER UDACS PLATE NO. 36 1 EA
13. 1" COPPER WATER SERVICE WITH 3/4" METER PER UDACS PLATE NO. 4 1 EA
14. 1" COPPER WATER SERVICE WITH 3/4" IRRIGATION METER WITH 1" RPPA PER UDACS PLATES NO. 4 & 8 1 EA

TRAFFIC IMPROVEMENTS

SEE SHEET 19 FOR TRAFFIC QUANTITIES.

NOTE TO CONTRACTOR:

QUANTITIES SHOWN ARE APPROXIMATIONS ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 124954

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 WATER FACILITIES WILL INCLUDE THE PLACEMENT OF 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 10 FOOT EASEMENT ADJUTING A PUBLIC OR PRIVATE STREET. IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE PLACED 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.

REVISED 04/19/12

APPROVED FOR CONSTRUCTION

DATE: 12/15/16 PROJECT No.: 124954

DATE	PM	DRAWN BY	DESIGNED BY	CHECKED BY	QA/CHECKED	JOB NO.	SCALE
10/18/2016	J. PEARCE	D.I.	D.I.			007.08B	NONE

DATE	PM	DRAWN BY	DESIGNED BY	CHECKED BY	QA/CHECKED	JOB NO.	SCALE
10/18/2016	J. PEARCE	D.I.	D.I.			007.08B	NONE

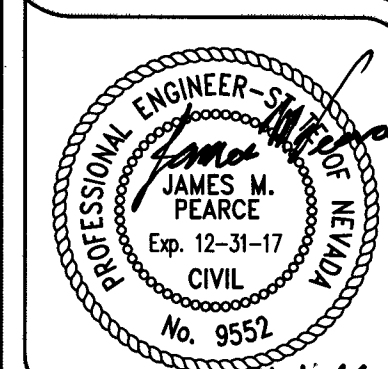
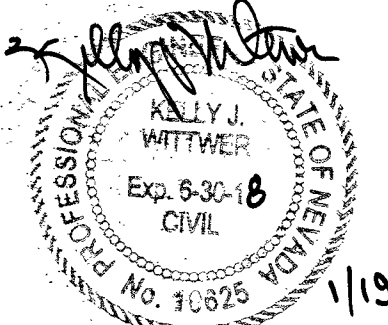
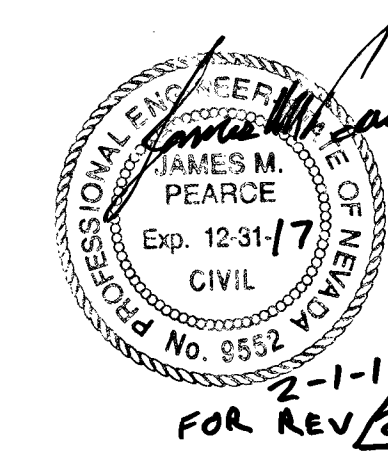
Triton Engineering

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Fax: (702) 254-3662
www.tritoneng.com

6757 W. Charleston Blvd.
Suite B
Las Vegas, Nevada 89146



DR HORTON
MAVERICK & WASHBURN OFFSITES
GENERAL NOTES



SHEET 2 OF 20
C.L.V. DWG.# 86710

FAST

Call before you dig
1-702-432-5300

Freeway & Arterial
System of Transportation

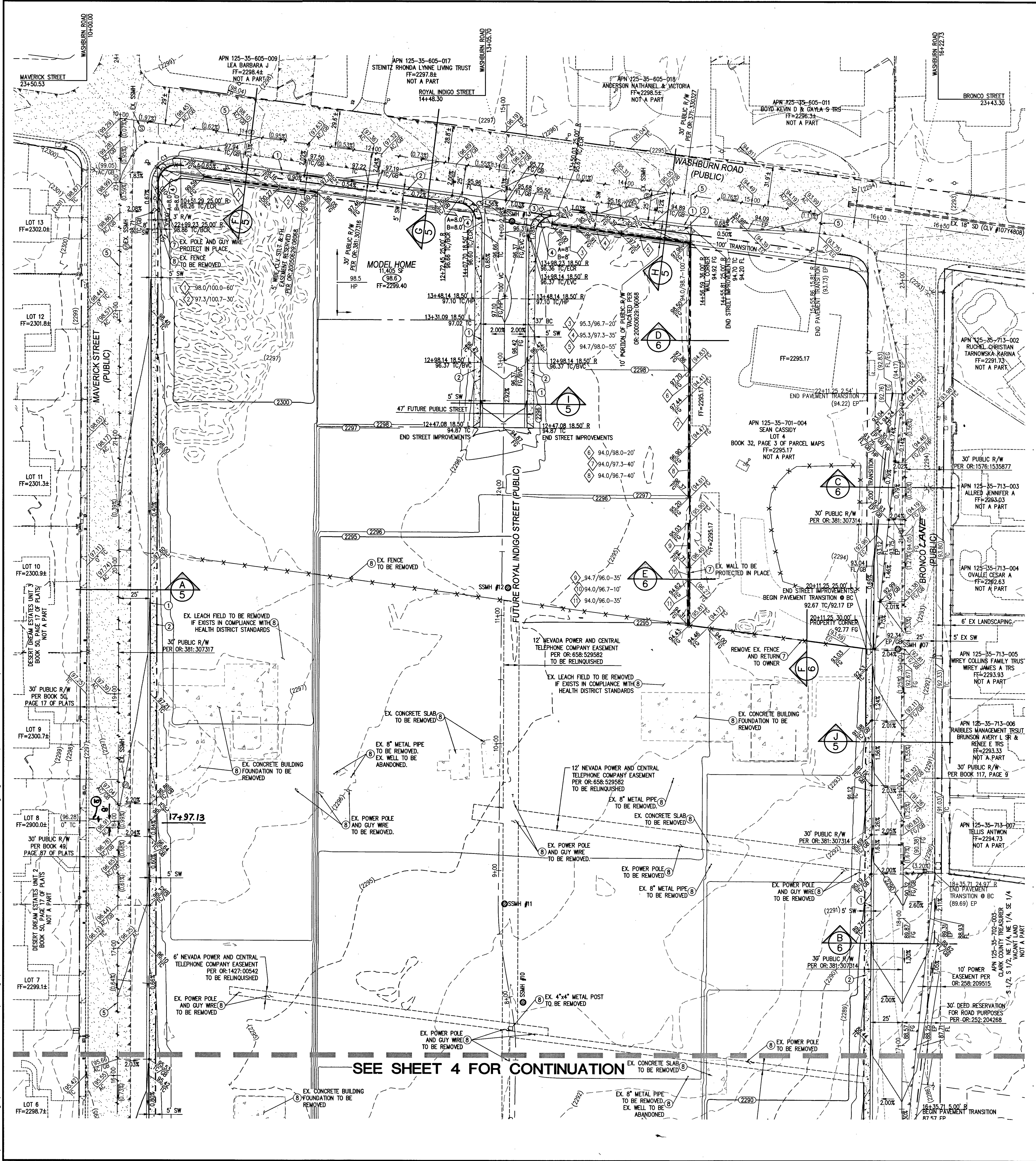
Avoid overhead power line contact. It's costly.

Call before you dig
1-702-227-2929

OR
1-800-227-2600

107V6157

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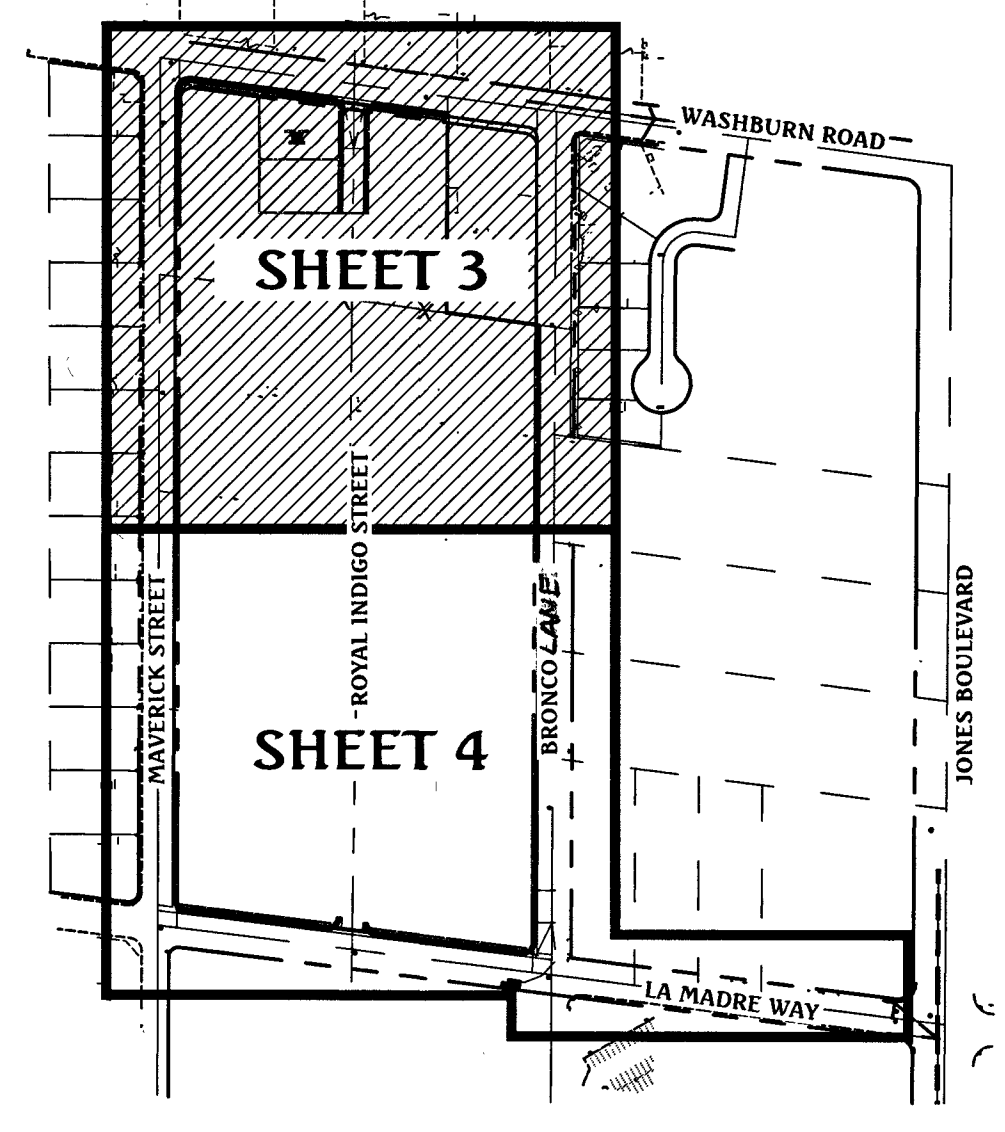
FAST
Call before you
Underground
1-702-432-5300
FIREARM & METAL
SYSTEM OF TRANSPORTATION

Avoid overhead power
line contact. It's costly.
Call before you
Overhead
1-702-227-2929

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

KEY MAP

SCALE: NONE



GRADING LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- STREET CENTERLINE
- EDGE OF PAVEMENT
- EXISTING CURB, GUTTER, & SIDEWALK
- PROPOSED CURB, GUTTER, & SIDEWALK
- PROPOSED AC PAVING
- EXISTING AC PAVING
- EX. FENCE
- EX. BLOCK WALL
- PROPOSED RETAINING WALL
- TOP OF FOOTING
- APPROX. WALL LENGTH
- TOP OF RETAINING WALL
- PROPOSED SCARP

BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. BLV903566
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD88 2008 ADJ.)

FLOOD ZONE NOTE

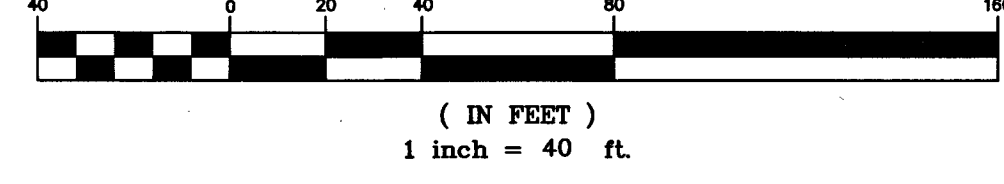
THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP #32003C1765F. THE SITE IS LOCATED WITHIN DESIGNATED FLOOD HAZARD ZONE X BEING AN AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.

SOILS INFORMATION

- SOILS REPORT BY: GEOTEK RESIDENTIAL, LLC
PROJECT No. 12565-LVR
DATED: SEPTEMBER 14, 2015
- CUT TOTAL: 18,765 C.Y.
FILL TOTAL: 23,237 C.Y.
NET: 4,472 C.Y. (FILL)



GRAPHIC SCALE



GRADING NOTES

- ALL PROPOSED PAD ELEVATIONS AND SWALE ELEVATIONS ARE FINISHED GRADES. ALL OTHER PROPOSED ELEVATIONS ARE FINISHED GRADES.
- THE GRADING PLANS SHALL BE AT THE PROJECT SITE THROUGHOUT THE COURSE OF CONSTRUCTION.
- ALL GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE LINES, GRADES AND DETAILS AS SHOWN ON THESE PLANS. ANY DEVIATION FROM THESE PLANS WILL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
- ALL PADS ARE TO BE GRADED WITHIN ±0.3' OF THE ELEVATIONS AS SHOWN ON THE PLANS. GRADING IS NOT COMPLETE UNTIL THE ENGINEER HAS CERTIFIED THAT THE PADS HAVE BEEN GRADED IN SUBSTANTIAL CONFORMANCE TO THE PLANS.
- ALL PLACEMENT OF OVERSIZED MATERIALS AND/OR FILL MATERIALS SHALL BE PER THE SOILS REPORT REFERENCED ON THIS PLAN.
- ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
- ANY CURVED CURB LESS THAN 12' MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

CONSTRUCTION NOTES

- CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD #216.
- CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
- CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
- CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD #235, CASE I.
- SAWCUT AND MATCH EXISTING ASPHALT.
- RELOCATE EXISTING FEATURE.
- PROTECT IN PLACE EXISTING FEATURE.
- REMOVE AND REPLACE EXISTING FEATURE.
- CONSTRUCT "A" TYPE CURB PER DETAIL J/SHEET 6.

CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	097°00'52"	20.00'	33.86'	22.61'
C2	082°59'08"	20.00'	28.97'	17.69'
C3	097°28'44"	20.00'	34.03'	22.80'
C4	083°08'46"	20.00'	29.02'	17.74'
C5	096°01'31"	20.00'	33.52'	22.22'
C6	083°58'29"	20.00'	29.31'	18.00'
C7	096°42'54"	20.00'	33.76'	22.49'
C8	010°43'47"	200.00'	37.45'	18.78'
C9	010°21'56"	200.00'	36.18'	18.14'
C10	090°00'00"	3.00'	4.71'	3.00'
C11	090°00'00"	3.00'	4.71'	3.00'

CONSTRUCTION NOTES

- SAWCUT, TRENCH AND PAVEMENT RESTORATION PER UDACS PLATE No. 17, CCAUSD #500.3, #500.4, AND #500.5.

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS #48048
James M. Pearce 11-1-16
JAMES M. PEARCE, PE No. 9552
DATE

DATE: 10/18/2016
PM: J. PEARCE
DRAWN BY: D.L.
DESIGNED BY: D.L.
CHECKED BY: D.L.
JOB NO.: 007098
SCALE: 1" = 40'
NO. DESCRIPTION
DATE

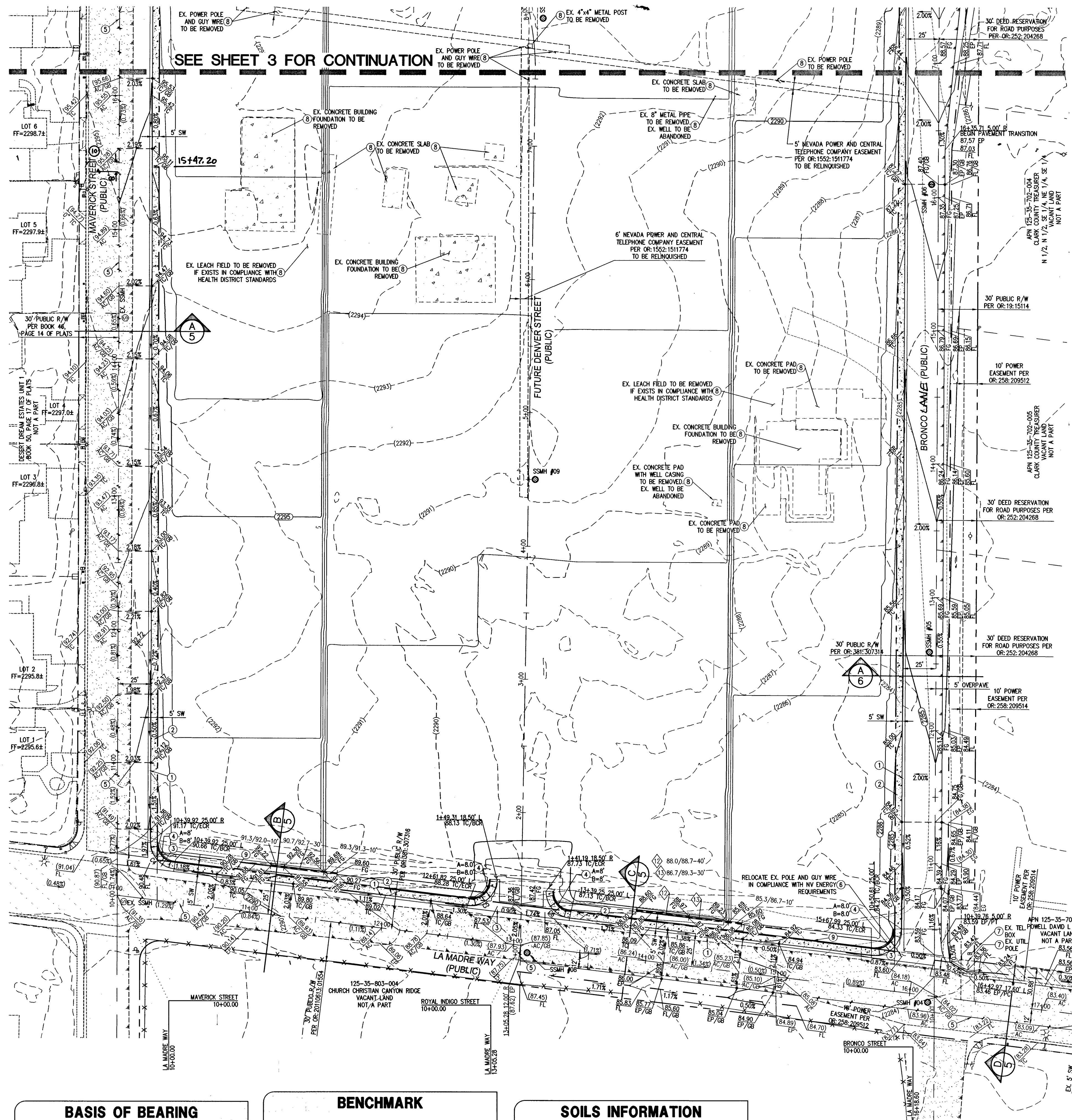
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Suite B
6757 W. Charleston Blvd.
Las Vegas, Nevada 89146
Fax: (702) 254-3062
www.tritoneng.com

DR HORTON
MAVERICK & WASHBURN OFFSITES
GRADING PLAN 1

PROFESSIONAL ENGINEER-STATE OF NEVADA
JAMES M. PEARCE
Exp. 12-31-17
No. 9552
11-1-16

SHEET **3** OF 20
C.L.V. DWG.#
65710

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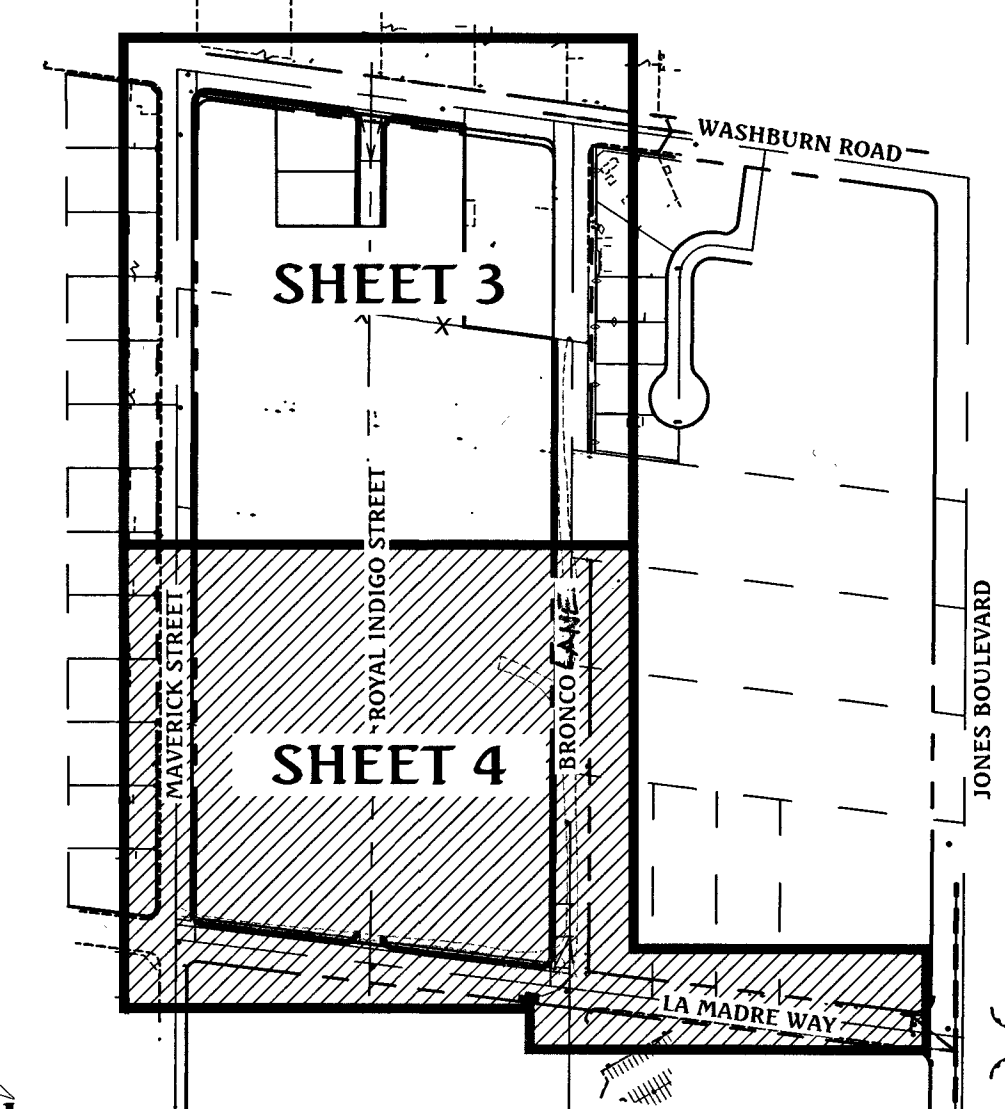
FAST
Call before you
Underground
1-702-432-5300
SYSTEM OF TRANSPORTATION

Avoid overhead power
line contact. It's costly.
Call before you
Overhead
1-702-227-2929

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

KEY MAP

SCALE: NONE

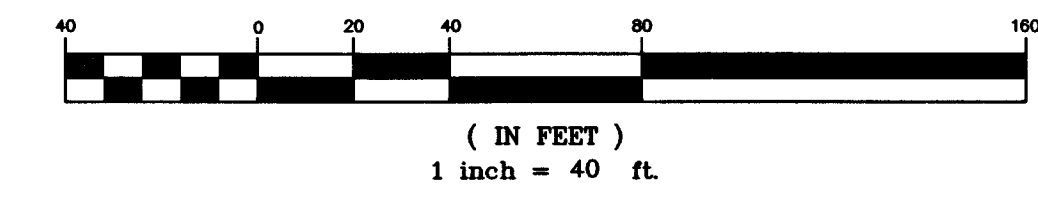


GRADING LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- STREET CENTERLINE
- EDGE OF PAVEMENT
- EXISTING CURB, GUTTER, & SIDEWALK
- PROPOSED CURB, GUTTER, & SIDEWALK
- PROPOSED AC PAVING
- EXISTING AC PAVING
- EX. FENCE
- EX. BLOCK WALL
- PROPOSED RETAINING WALL
- TOP OF FOOTING
- APPROX. WALL LENGTH
- TOP OF RETAINING WALL
- PROPOSED SCARP



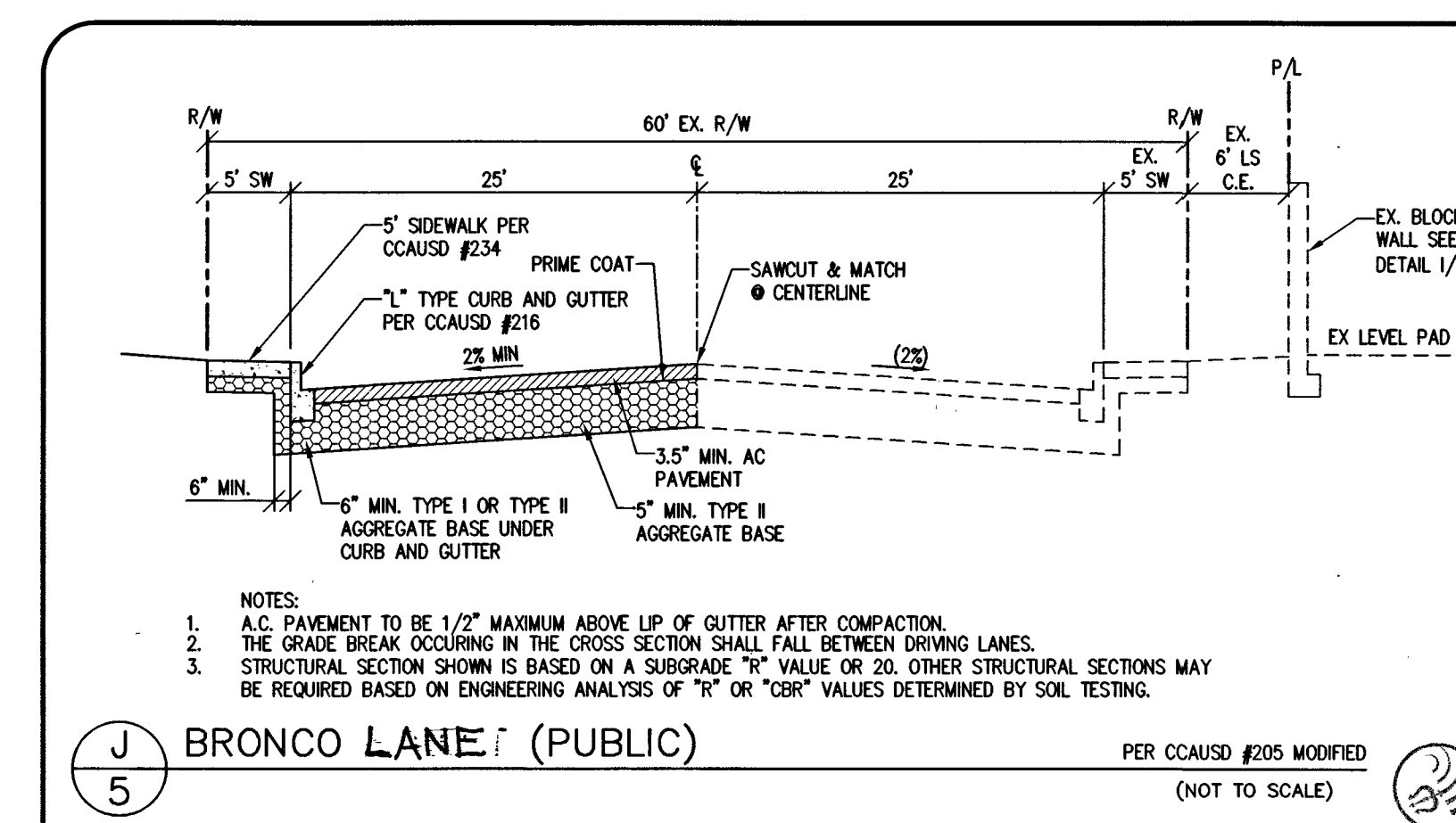
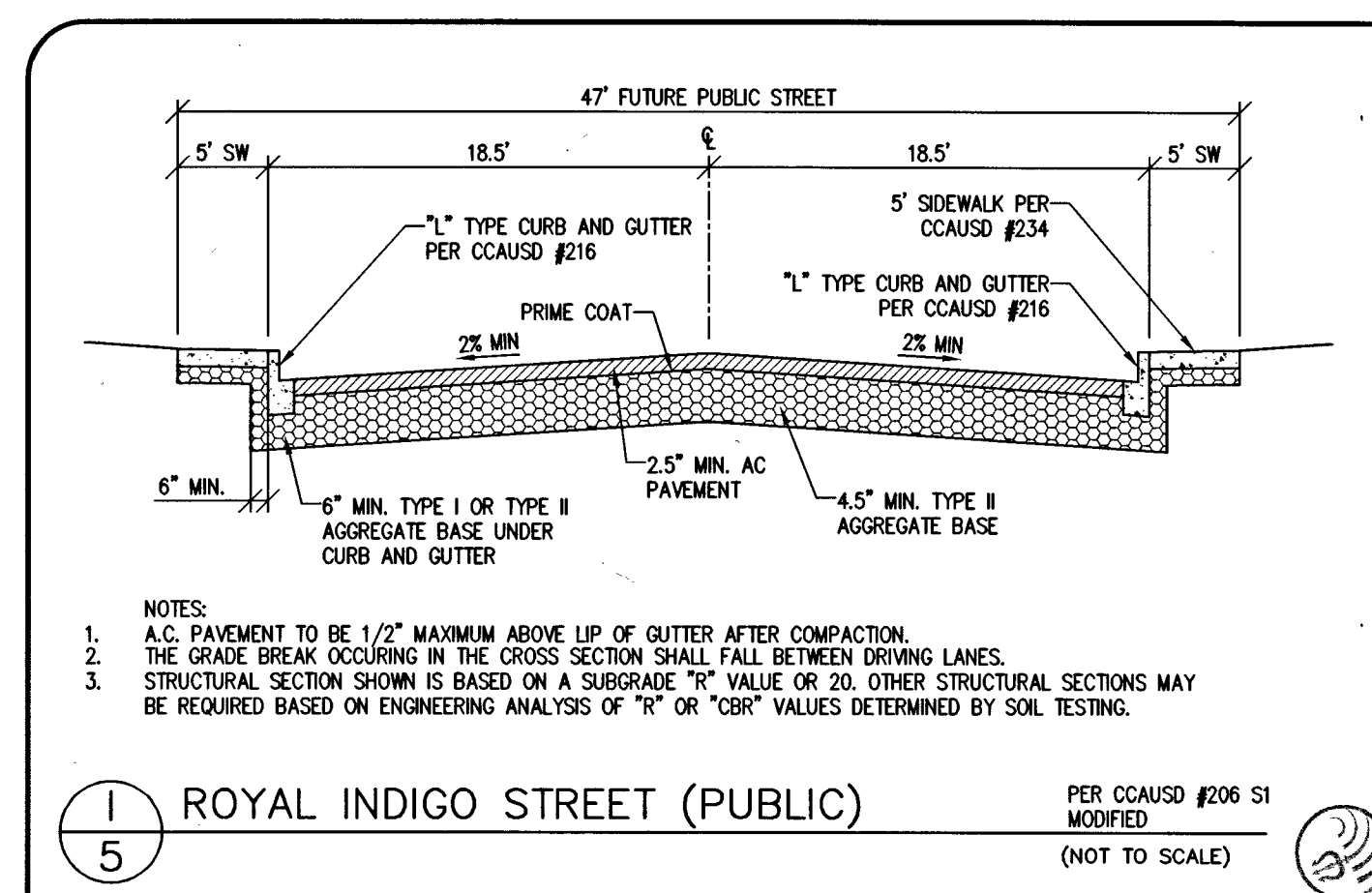
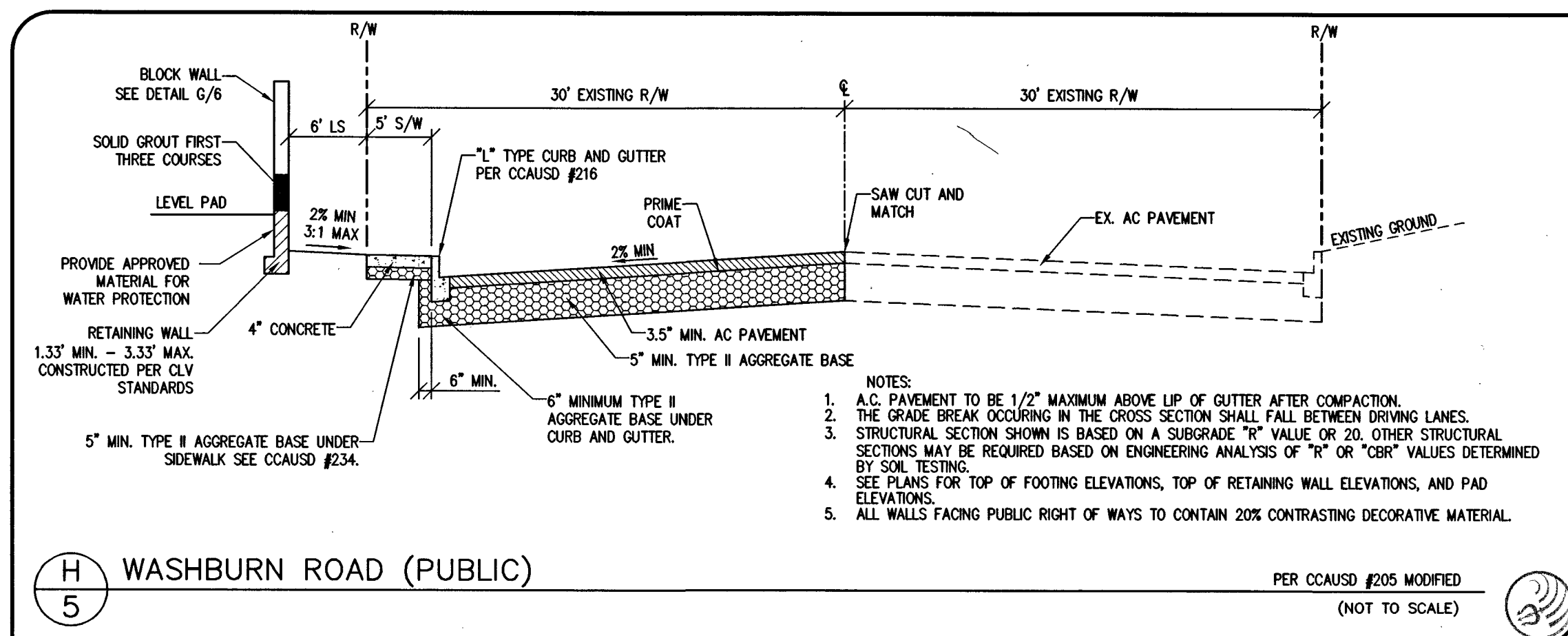
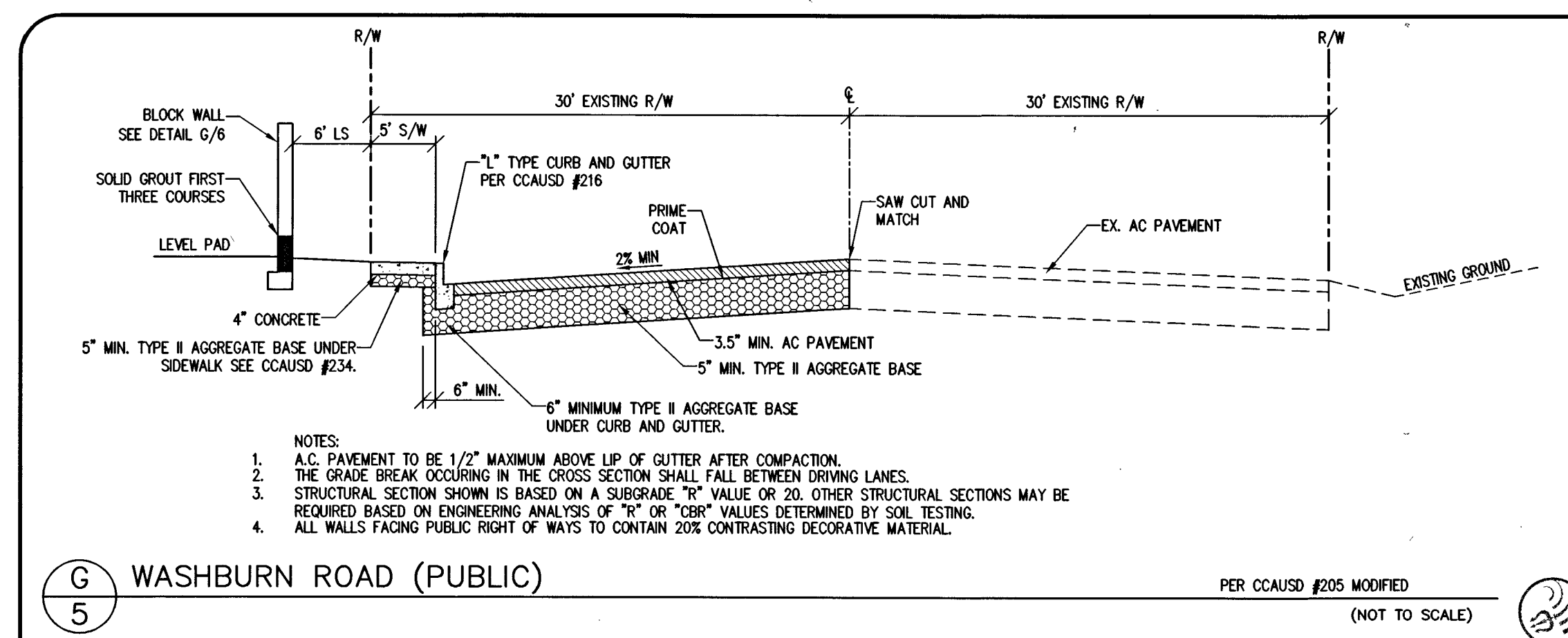
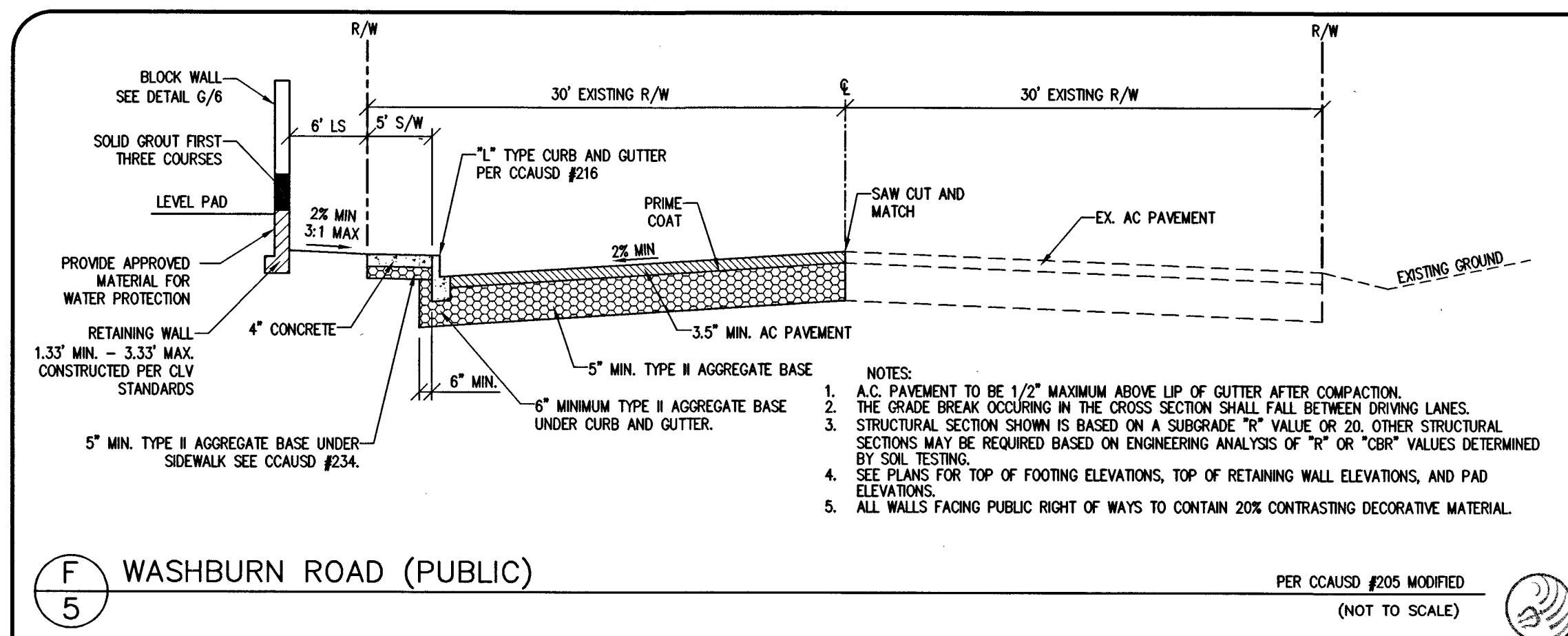
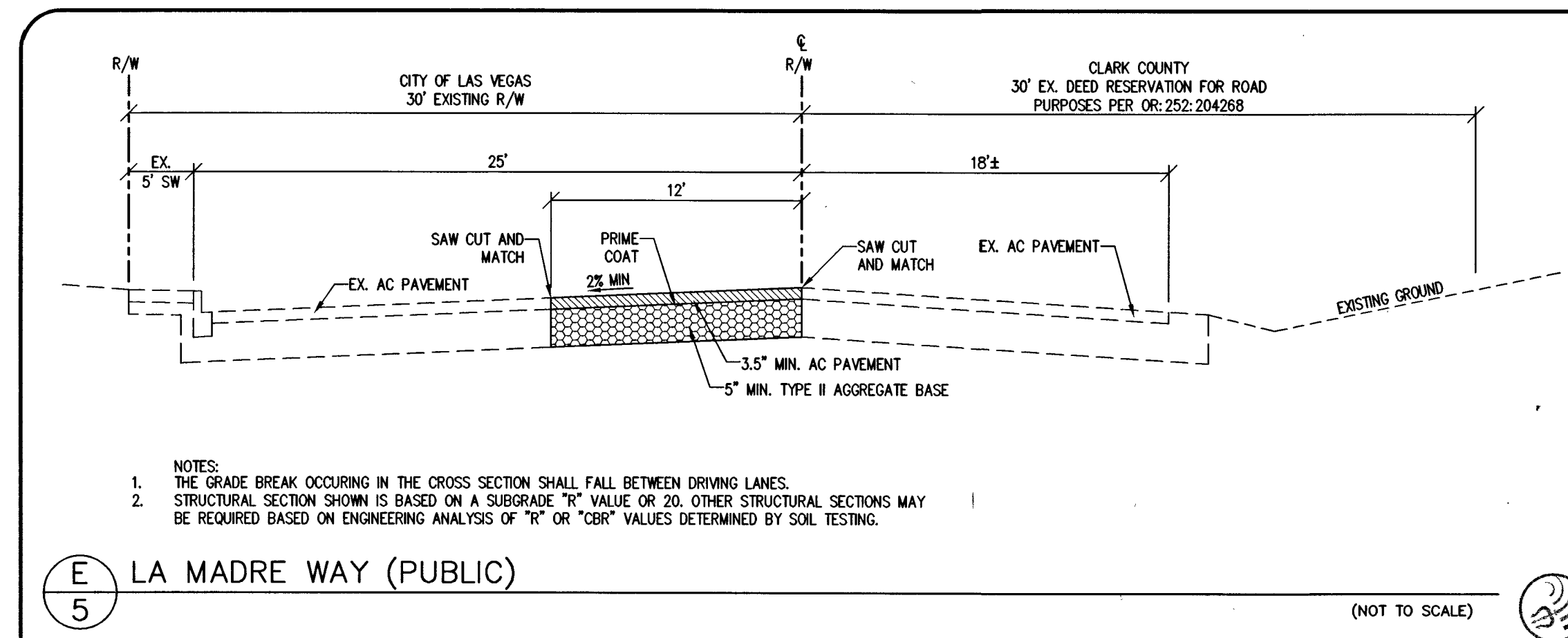
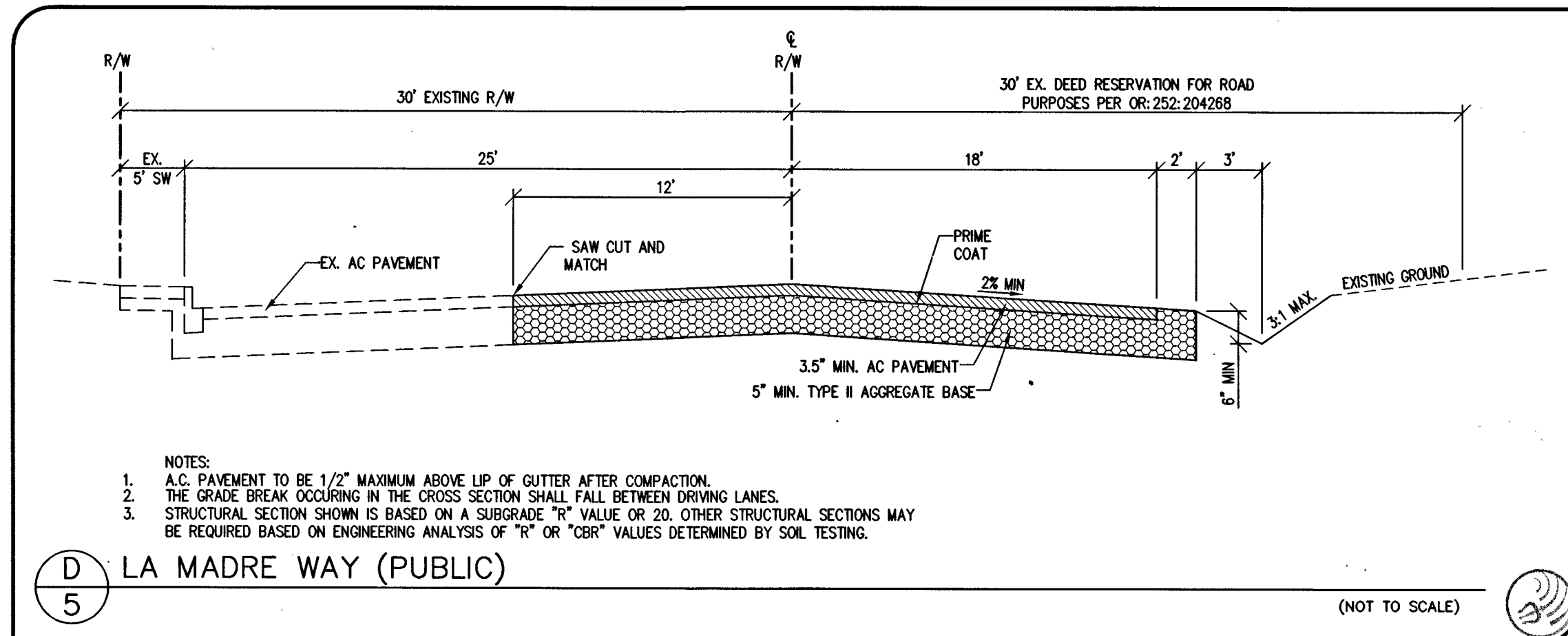
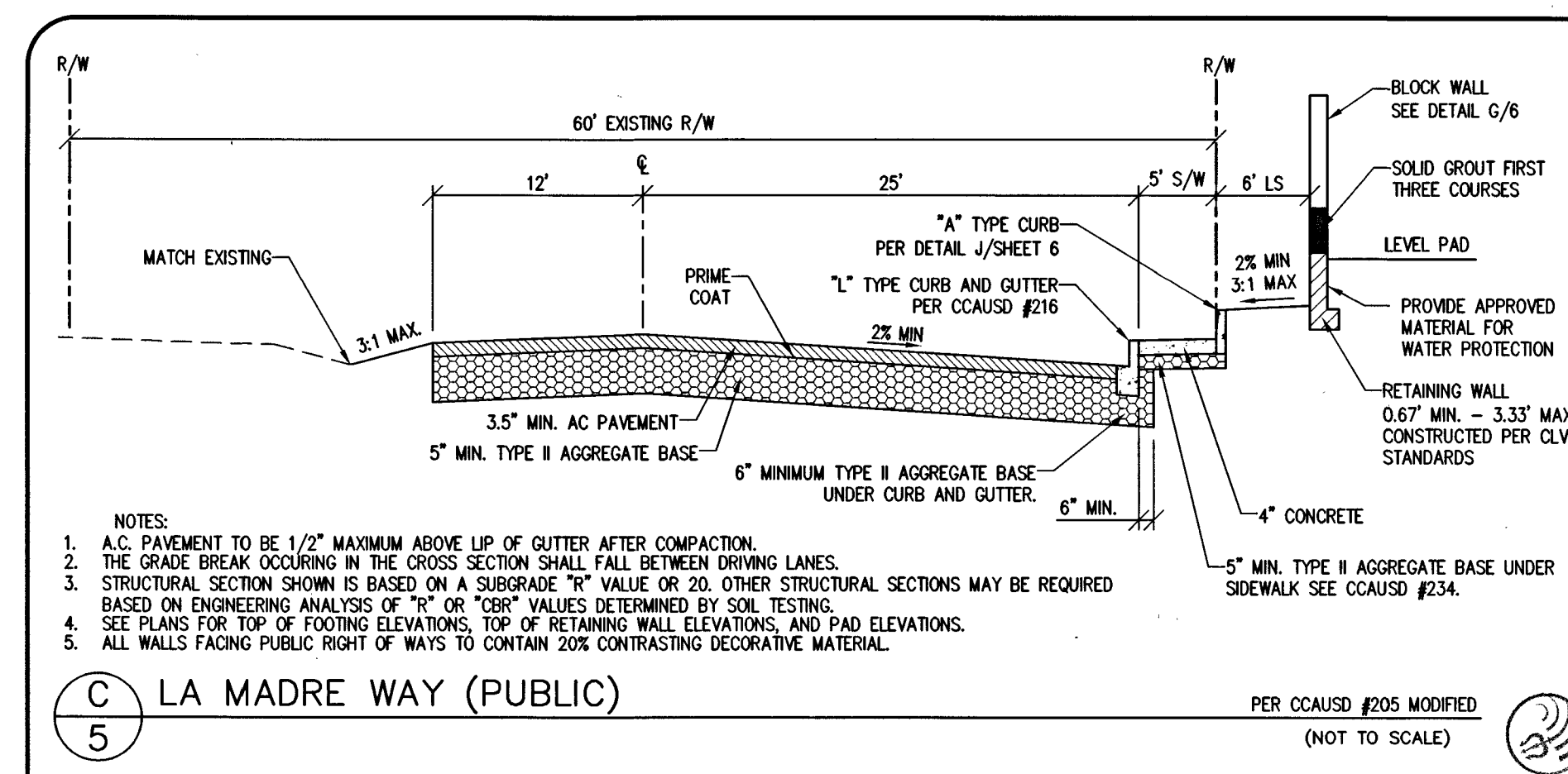
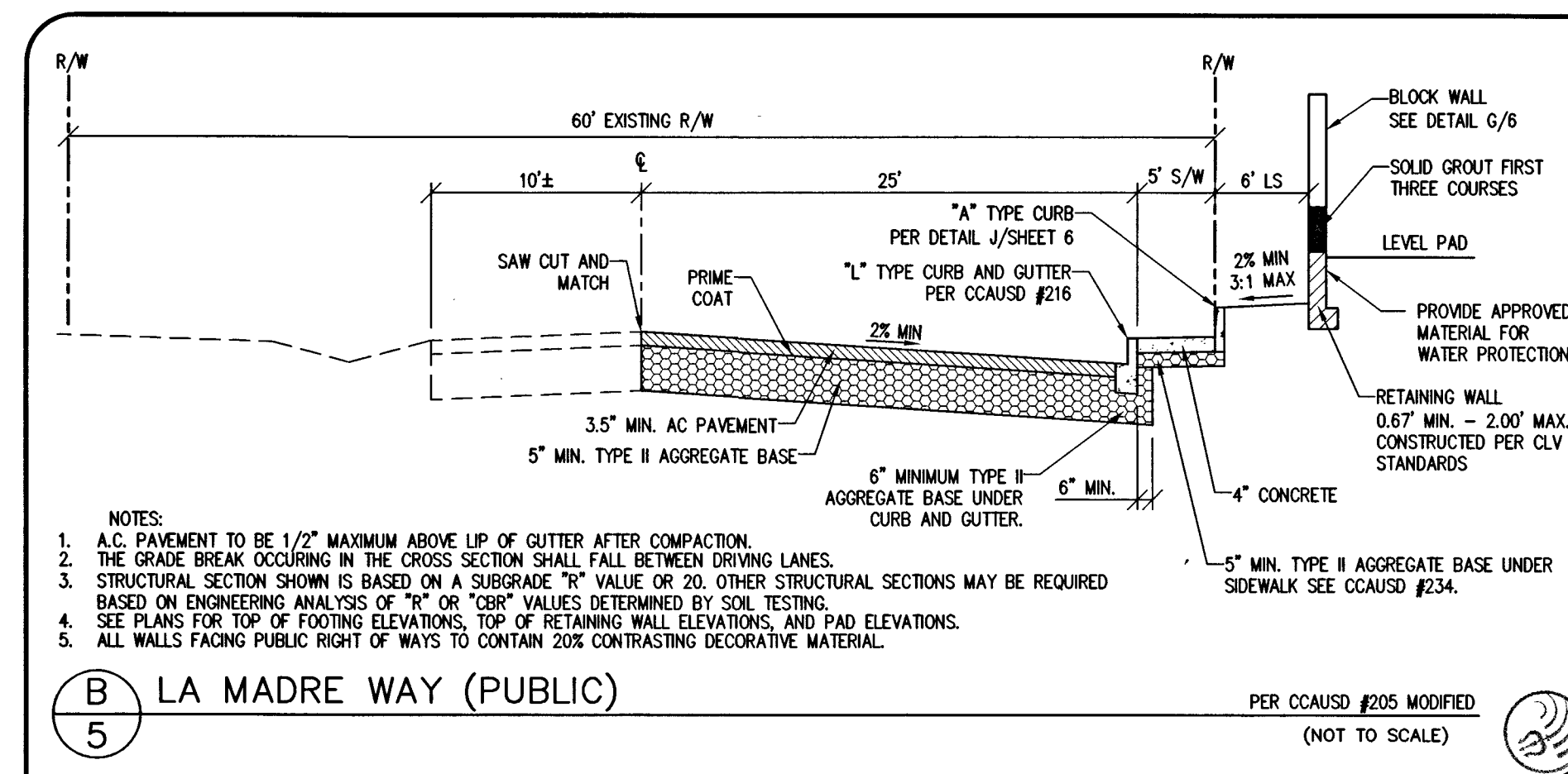
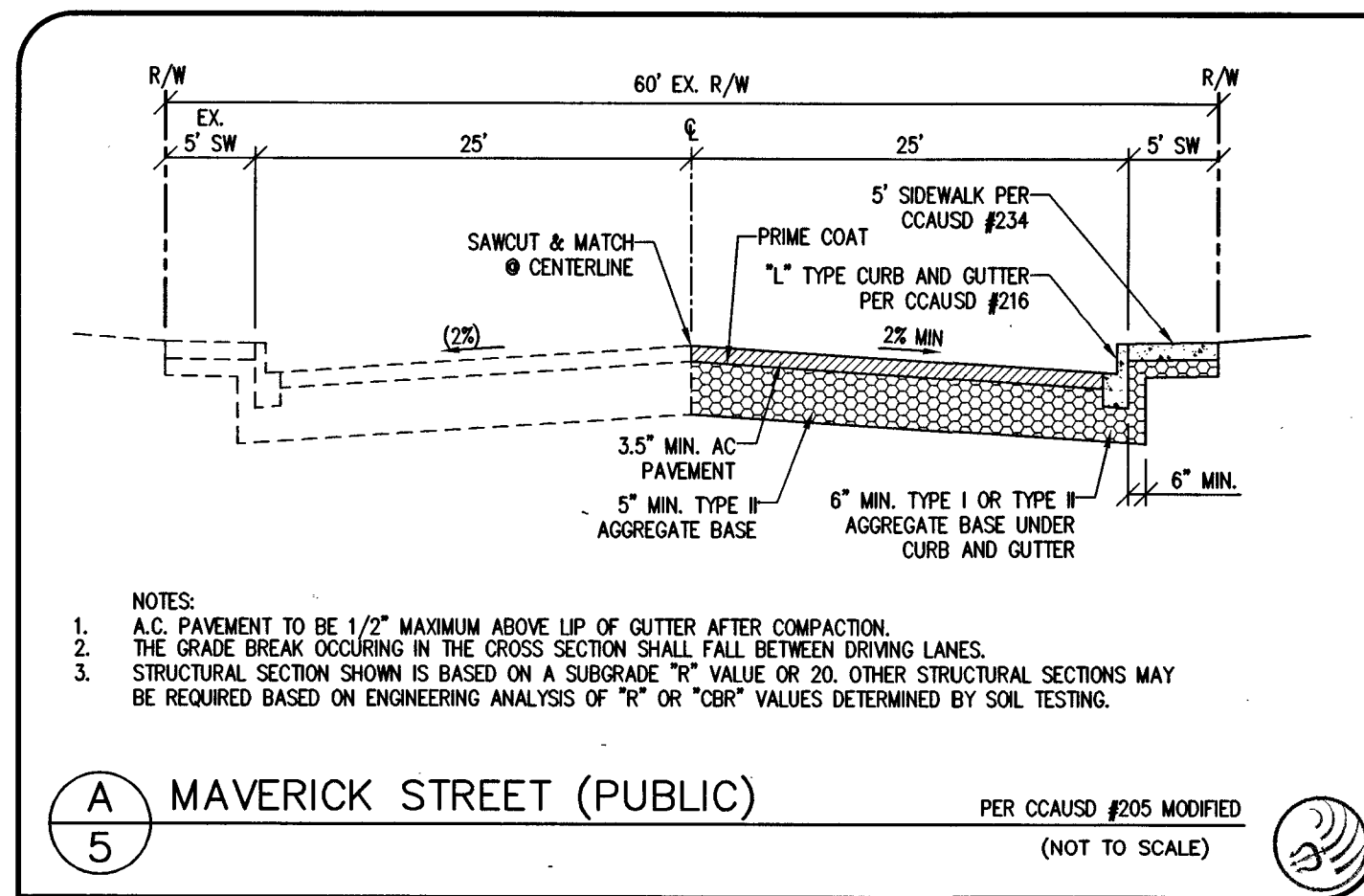
GRAPHIC SCALE



GRADING NOTES

- ALL PROPOSED PAD ELEVATIONS AND SWALE ELEVATIONS ARE FINISHED GRADES. ALL OTHER PROPOSED ELEVATIONS ARE FINISHED GRADES.
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- ALL PLACEMENT OF OVERSIZED MATERIALS AND/OR FILL MATERIALS SHALL BE PER THE SOILS REPORT REFERENCED ON THIS PLAN.
- ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
- ANY CURVED CURB LESS THAN 1% MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

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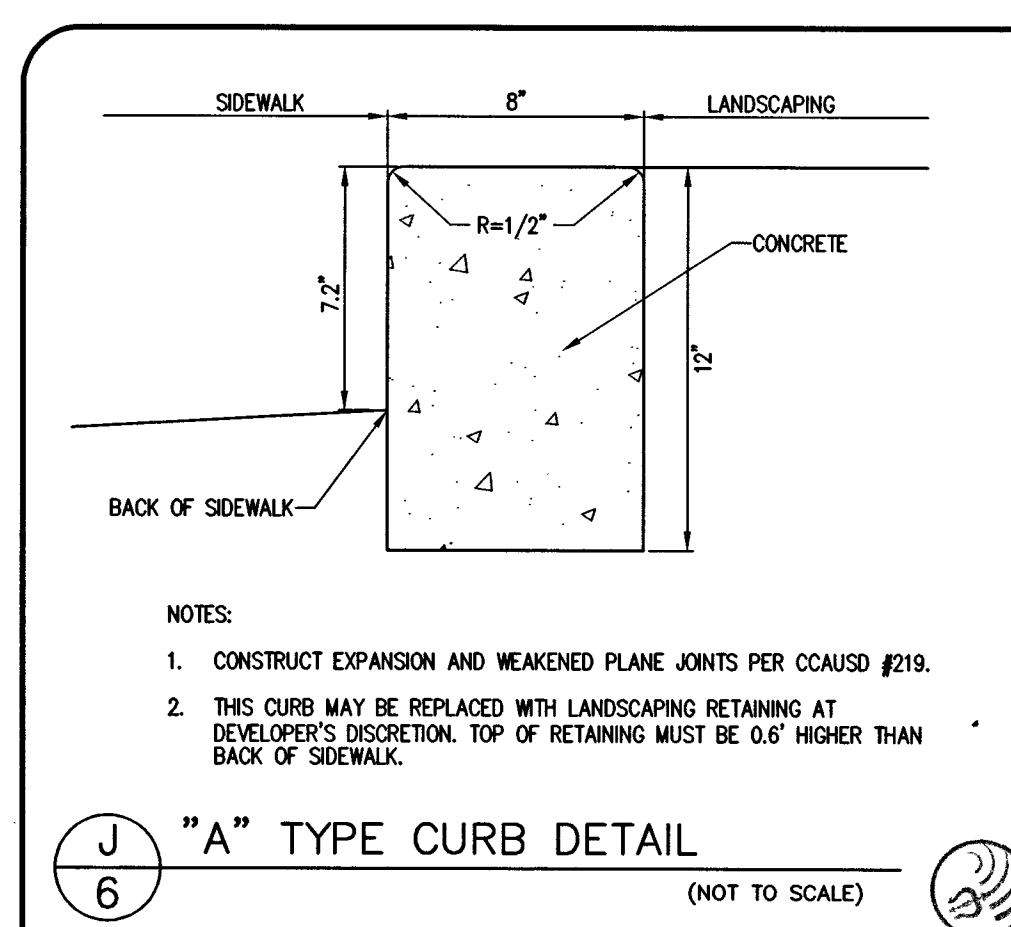
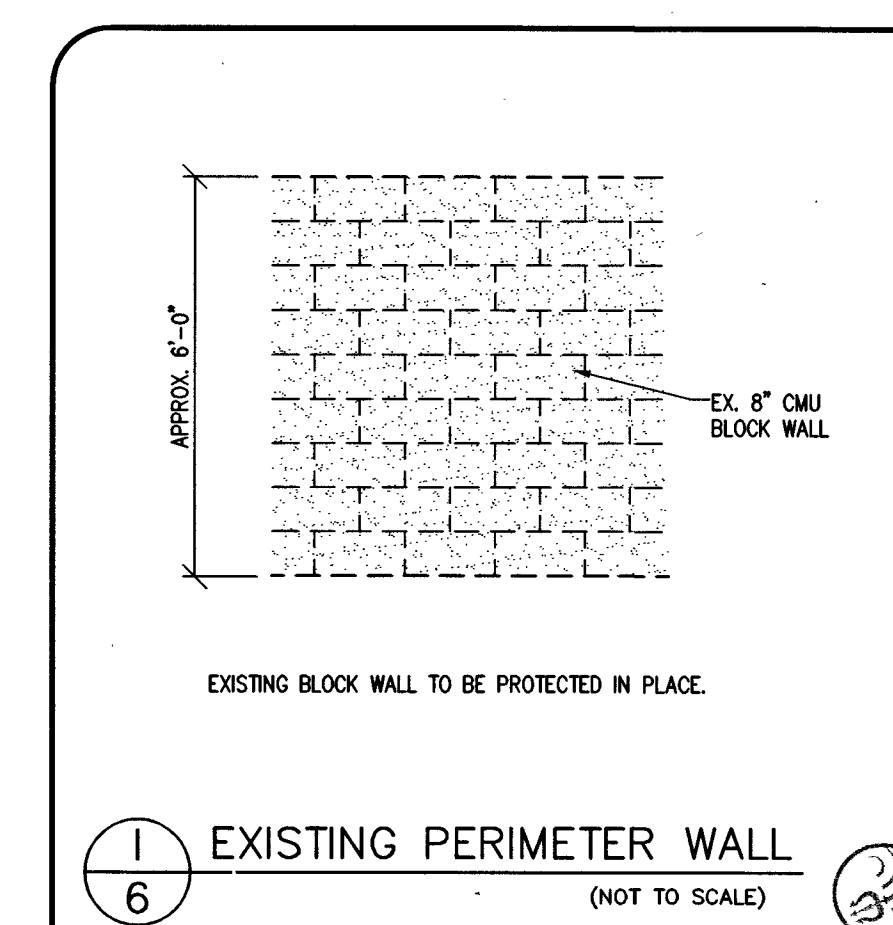
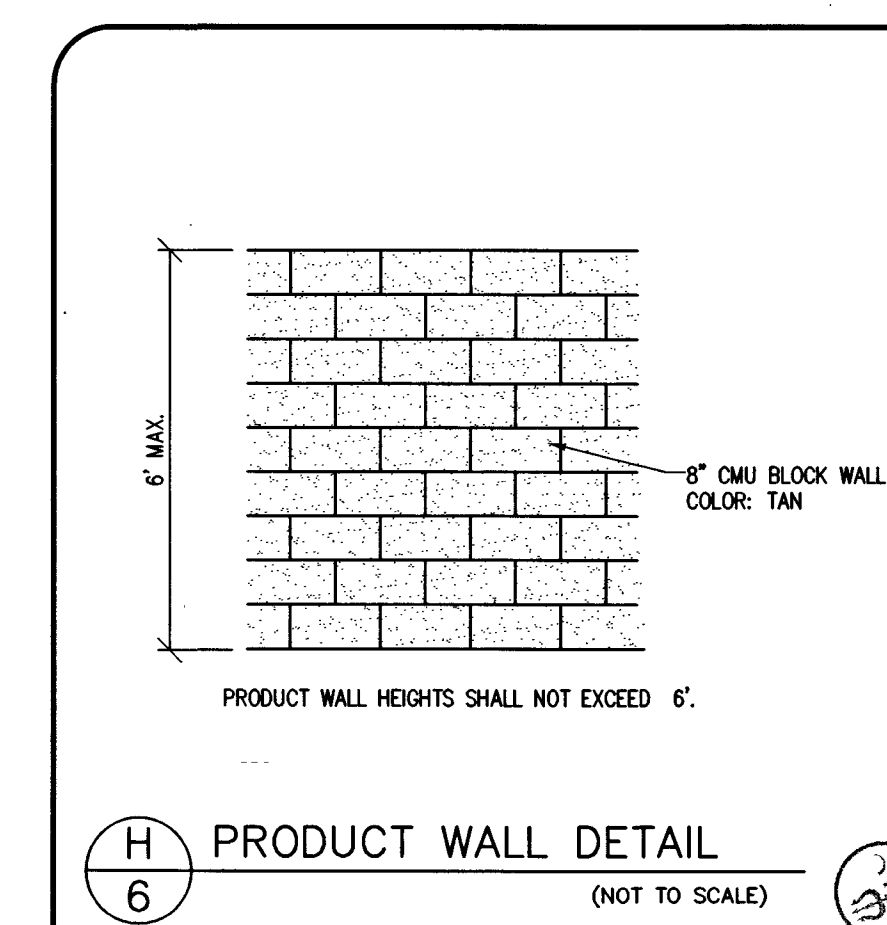
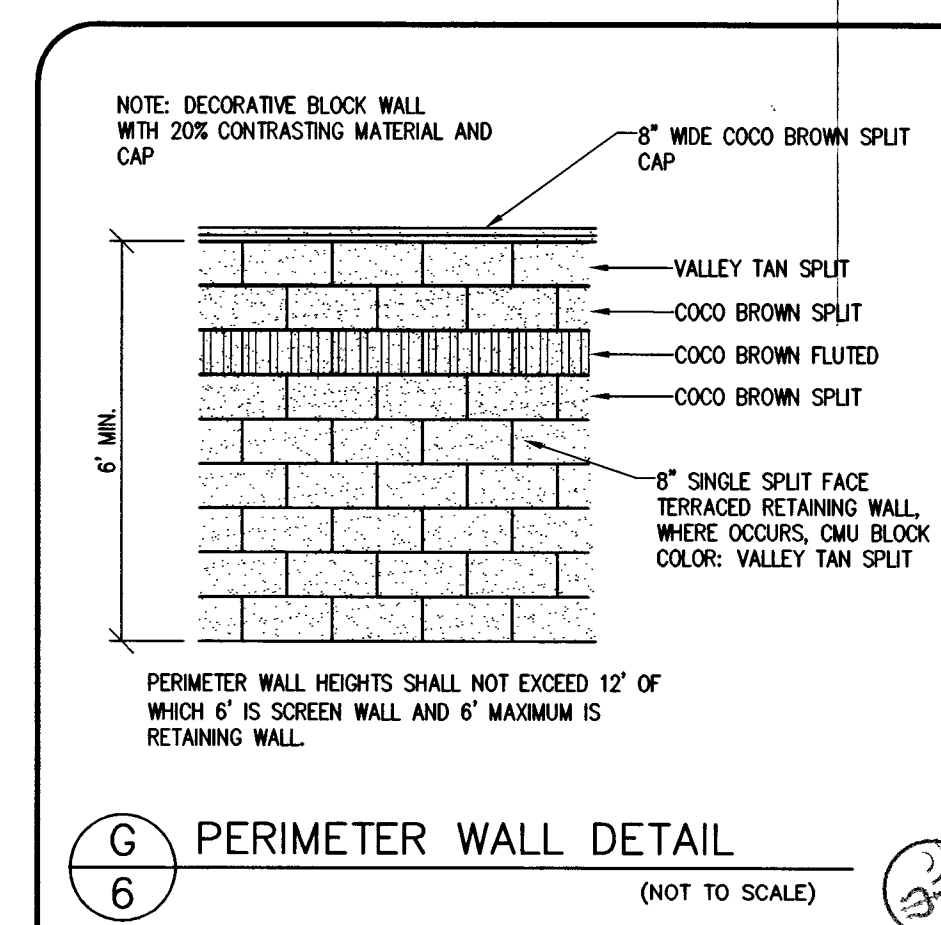
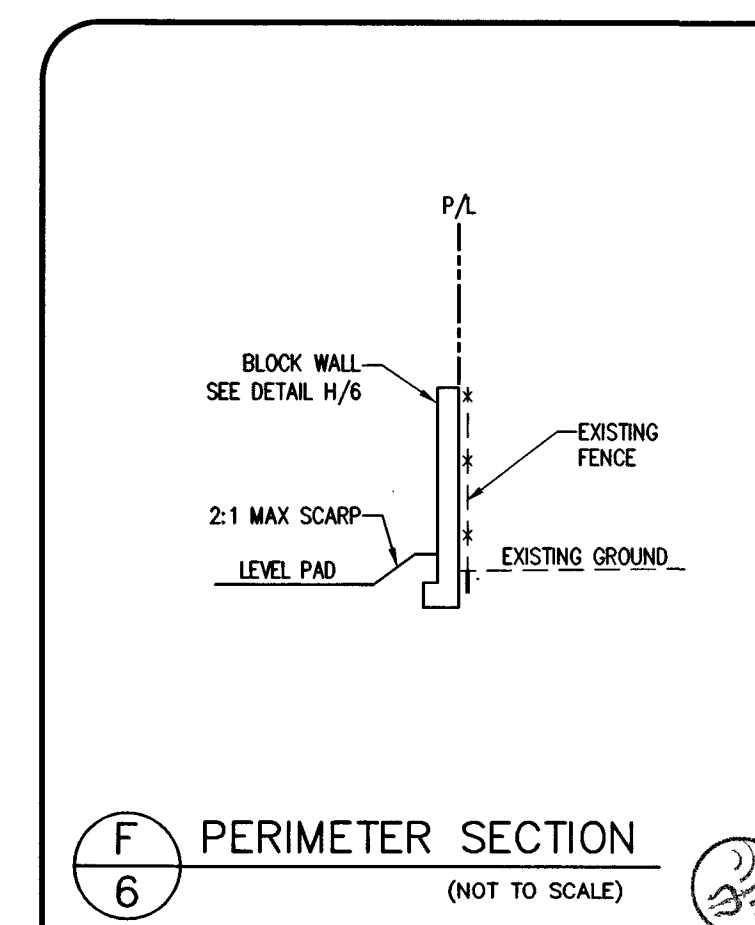
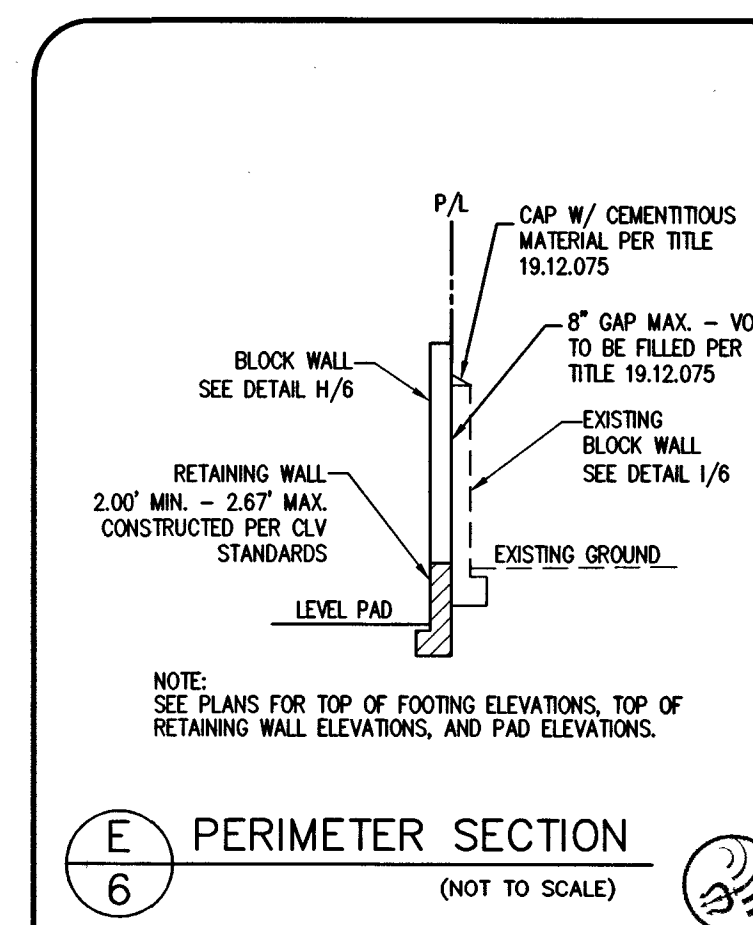
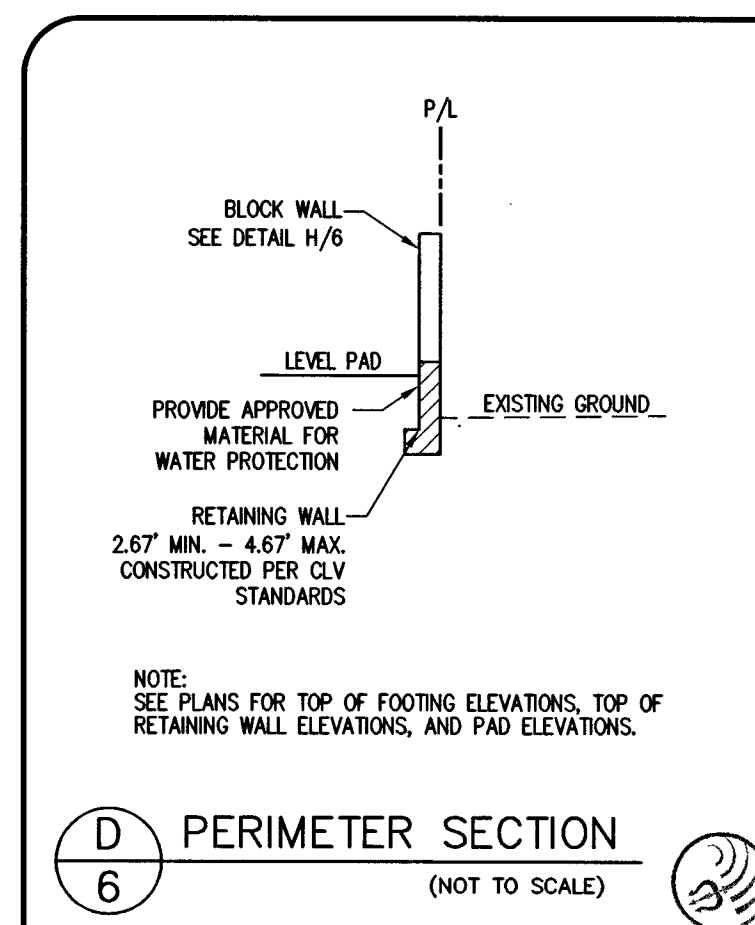
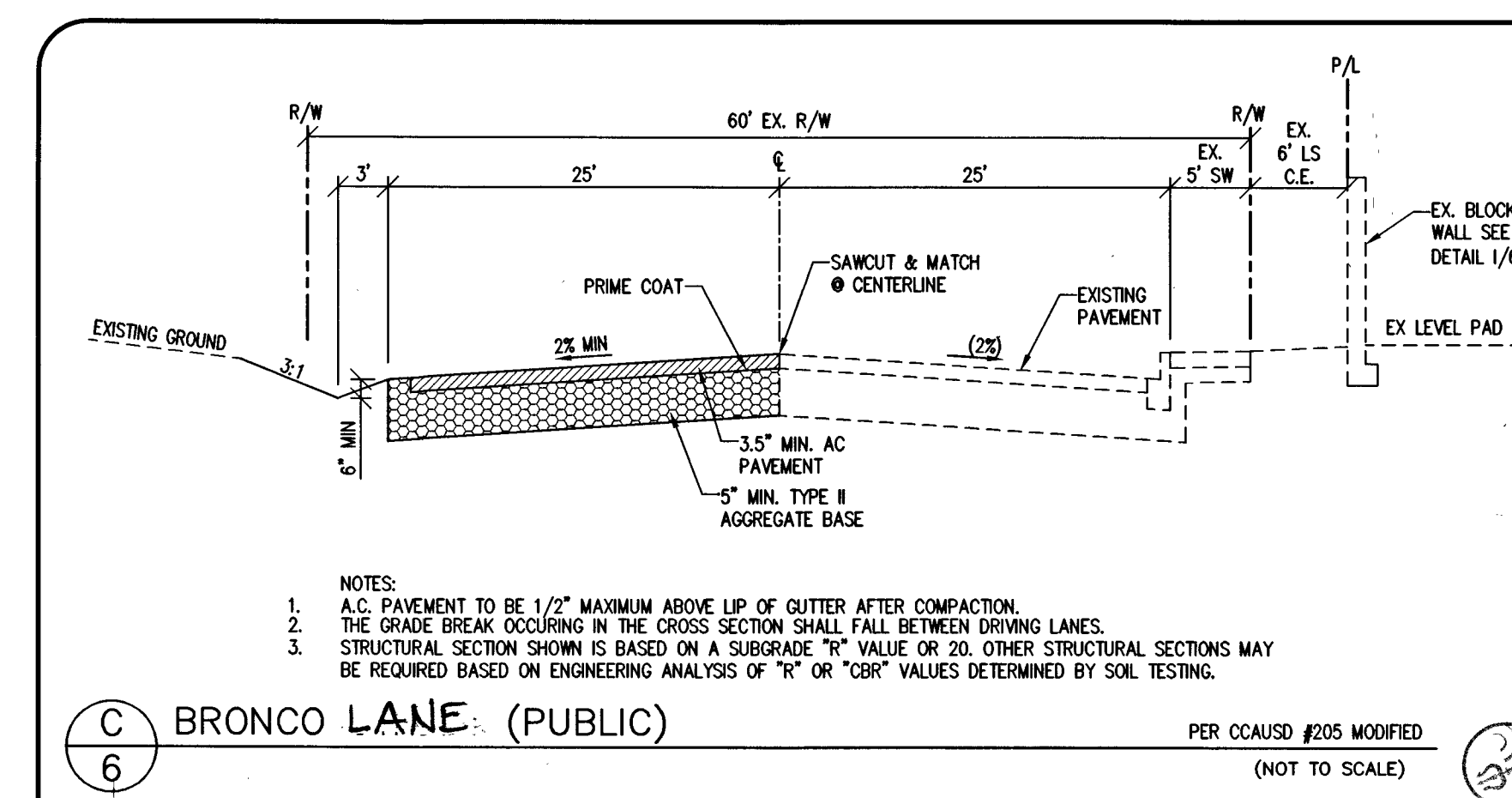
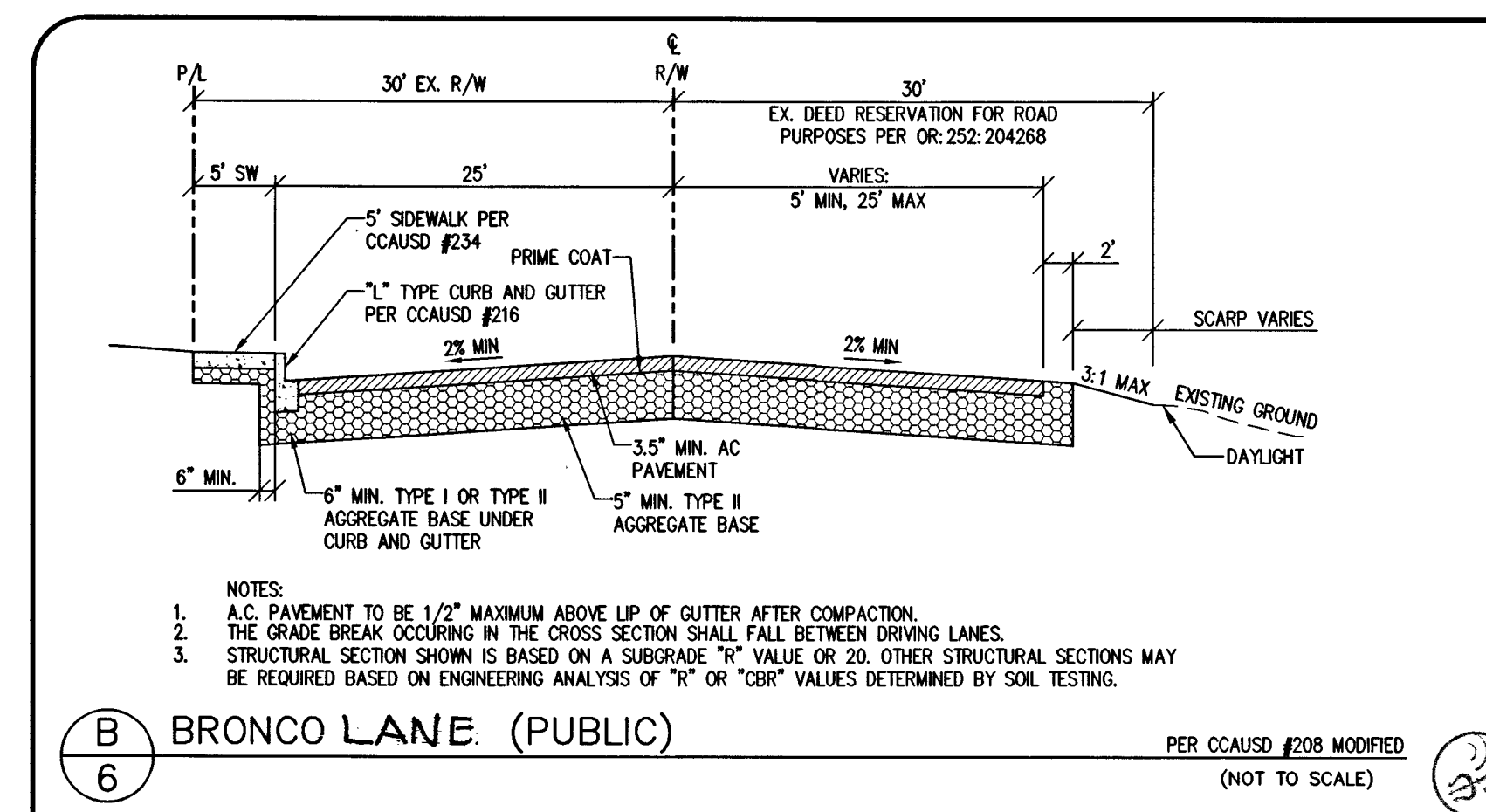
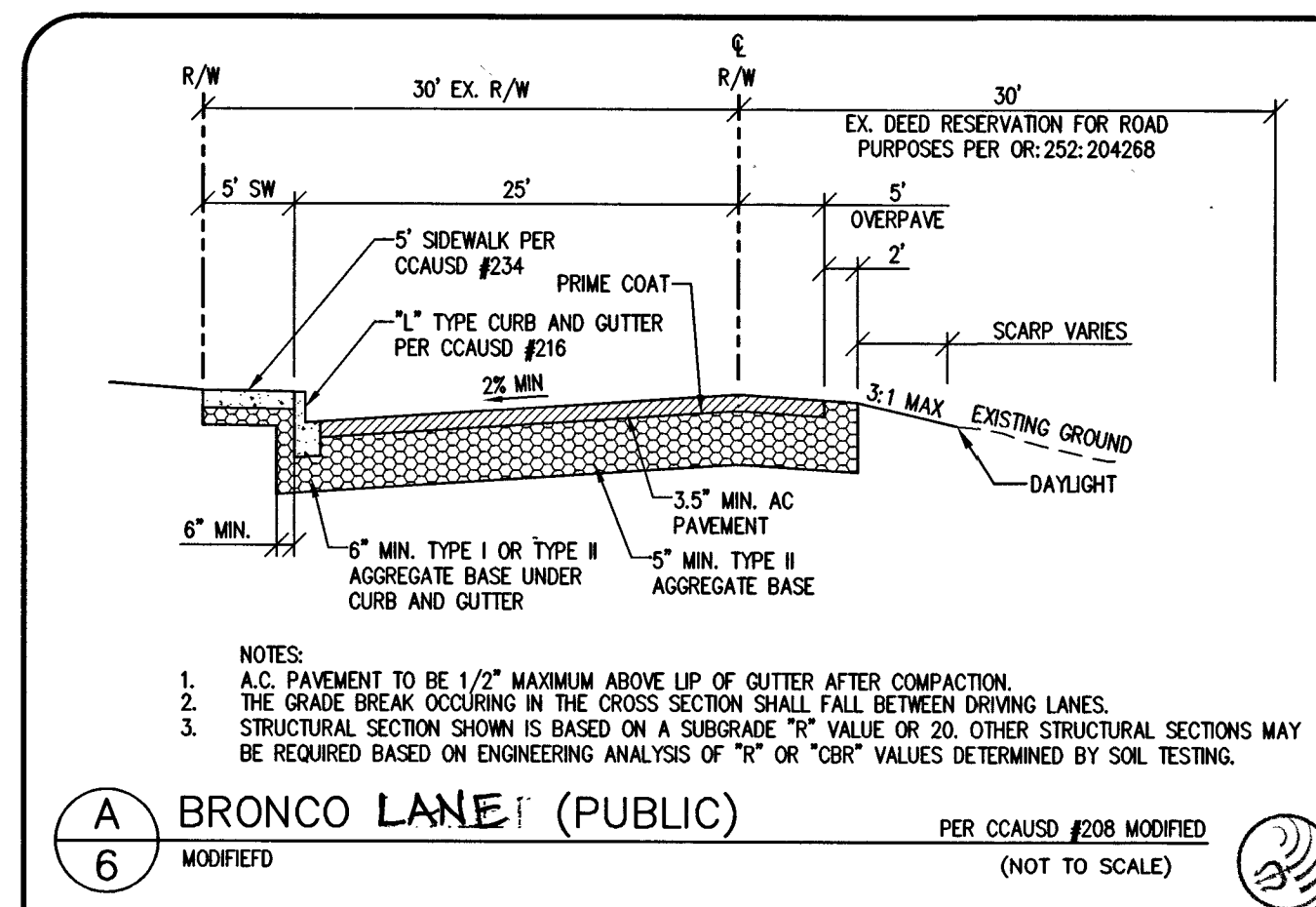
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10/18/2016			
J. PEARCE			
D.L.			
D.L.			
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NONE			

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Office: (702) 254-1480
Fax: (702) 254-5062
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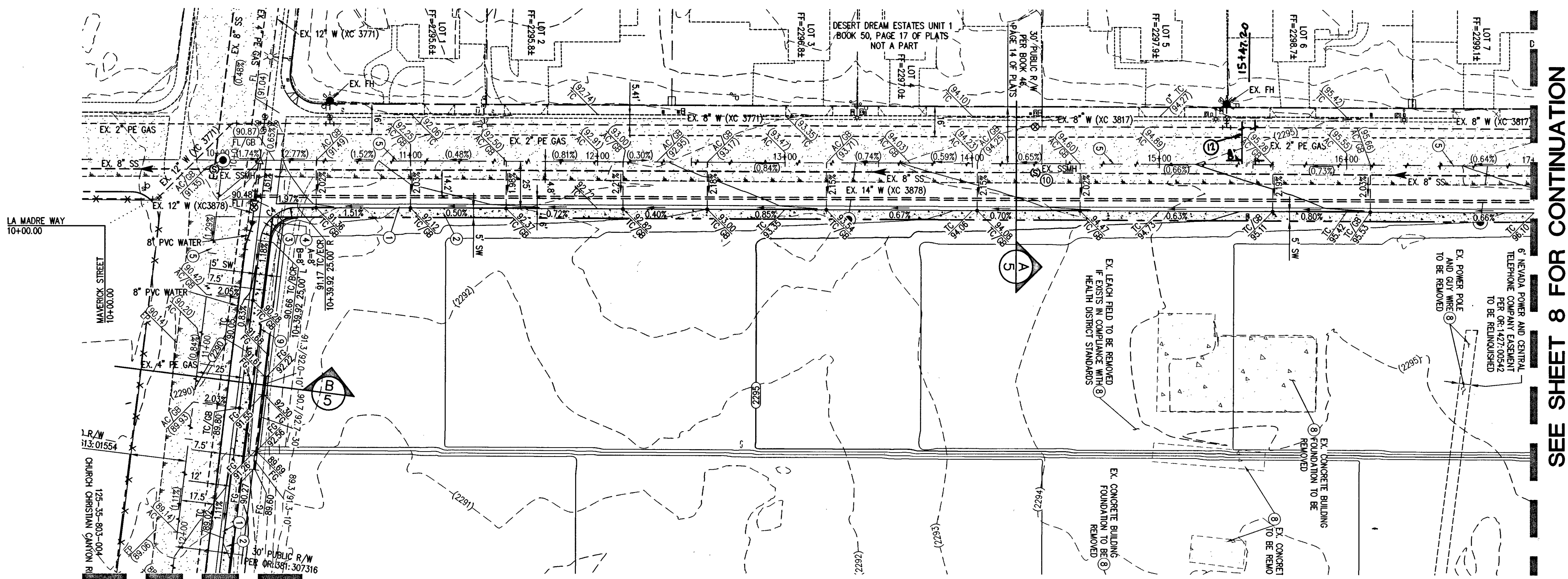
DR HORTON
MAVERICK & WASHBURN OFF-SITES
GRADING DETAILS I

PROFESSIONAL ENGINEER
JAMES M. PEARCE
Exp. 12-31-17
CIVIL
No. 9552
11-1-16
SHEET **5** OF 20
C.L.V. DWG.#
66710

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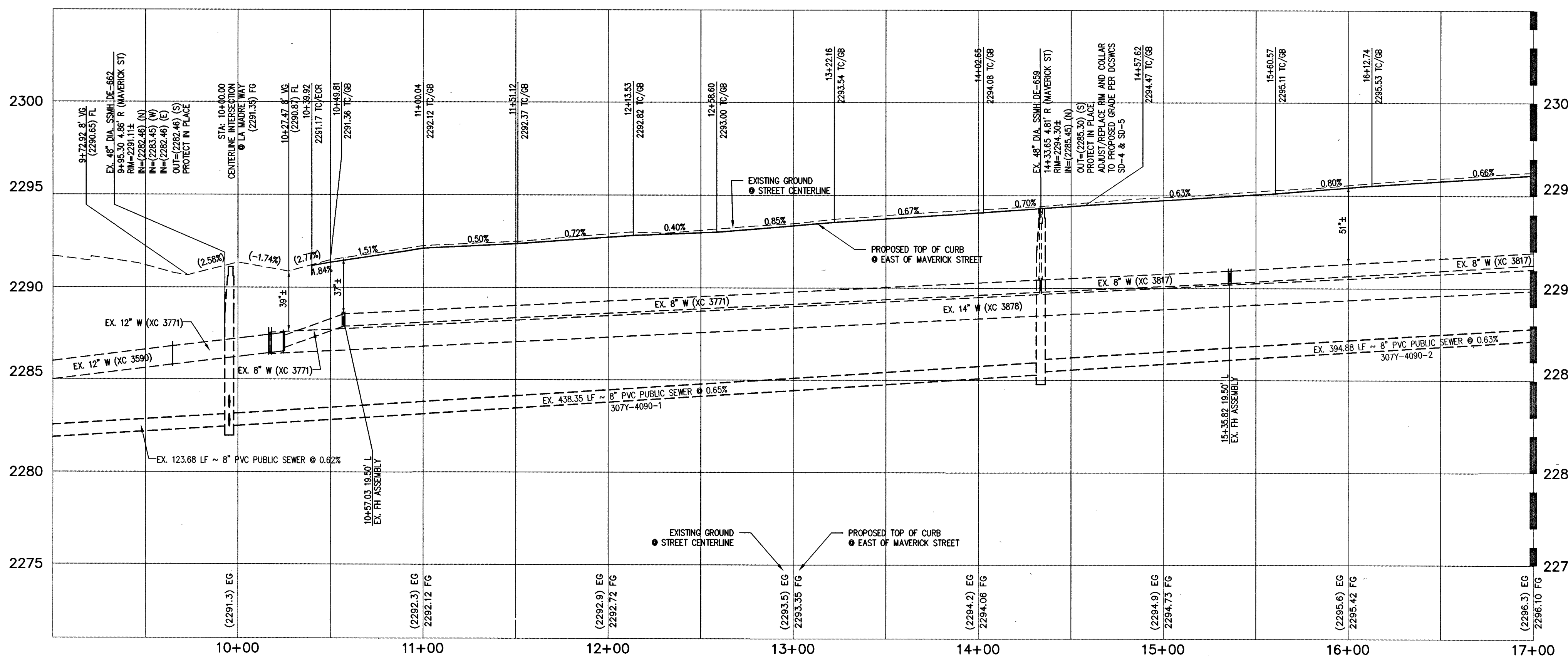


LA MADRE WAY
SEE SHEET 10

MAVERICK STREET (PUBLIC)

PLAN
SCALE: HORIZ. 1" = 40'

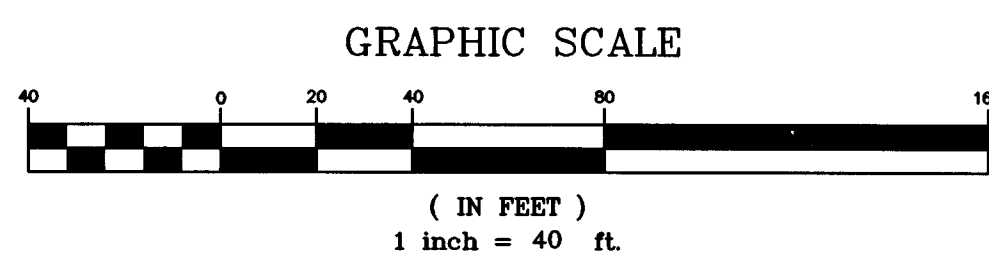
SEE SHEET 8 FOR CONTINUATION



MAVERICK STREET (PUBLIC)

PROFILE

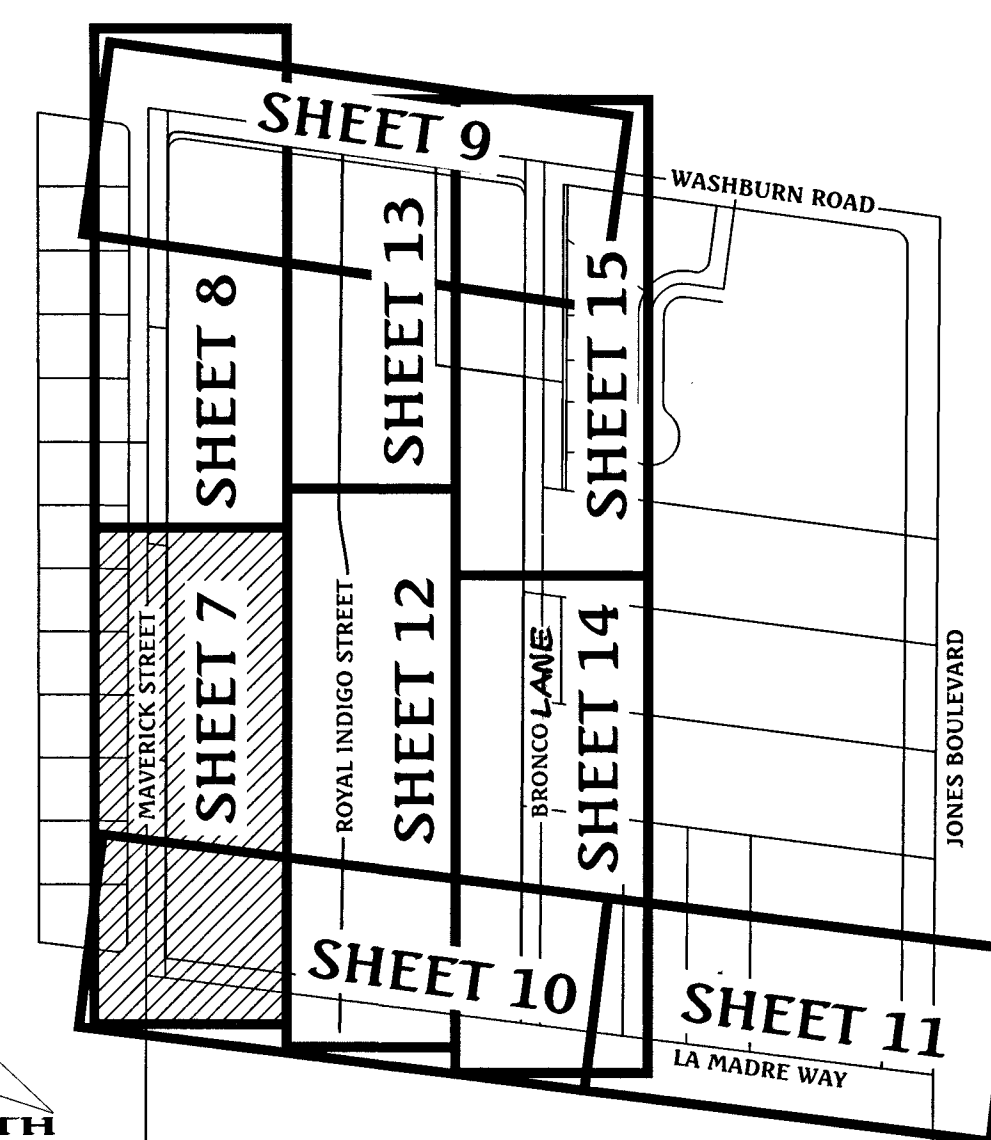
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



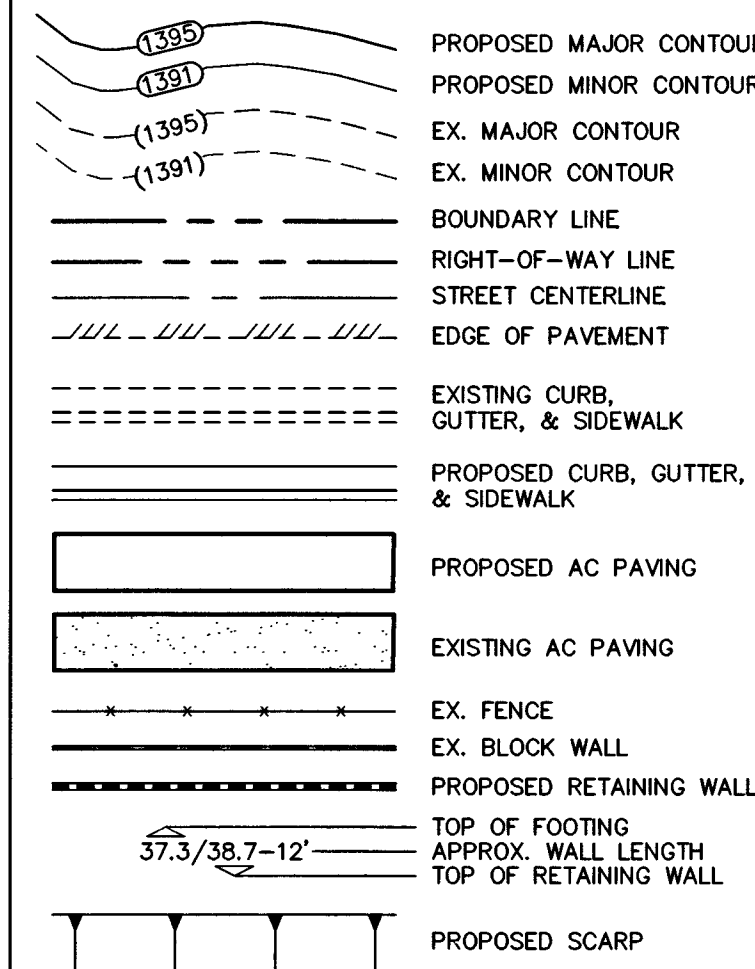
SEE SHEET 8 FOR CONTINUATION

KEY MAP

SCALE: 1" = 300'



GRADING LEGEND



BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV9035E6
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)

FLOOD ZONE NOTE

THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP #32003C1765F. THE SITE IS LOCATED WITHIN DESIGNATED FLOOD HAZARD ZONE X BEING AN AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.

GRADING NOTES

1. ALL PROPOSED PAD ELEVATIONS AND SWALE ELEVATIONS ARE ROUGH GRADES. ALL OTHER PROPOSED ELEVATIONS ARE FINISHED GRADES.
2. THE GRADING PLANS SHALL BE AT THE PROJECT SITE THROUGHOUT THE COURSE OF CONSTRUCTION.
3. ALL GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE LINES, GRADES AND DETAILS AS SHOWN ON THESE PLANS. ANY DEVIATION FROM THESE PLANS WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
4. ALL PADS ARE TO BE GRADED WITHIN ±0.3' OF THE ELEVATIONS AS SHOWN ON THE PLANS. GRADING IS NOT COMPLETE UNTIL THE ENGINEER HAS CERTIFIED THAT THE PADS HAVE BEEN GRADED IN SUBSTANTIAL CONFORMANCE TO THE PLANS.
5. ALL PLACEMENT OF OVERSIZED MATERIALS AND/OR FILL MATERIALS SHALL BE PER THE SOILS REPORT REFERENCED ON THIS PLAN.
6. ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
7. ANY CURVED CURB LESS THAN 18" MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD #216.
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
4. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD #235, CASE 1.
5. SAWCUT AND MATCH EXISTING ASPHALT.
6. RELOCATE EXISTING FEATURE.
7. PROTECT IN PLACE EXISTING FEATURE.
8. REMOVE AND REPLACE EXISTING FEATURE.
9. CONSTRUCT "A" TYPE CURB PER DETAIL J/SHEET 6.
10. PROTECT IN PLACE EXISTING MANHOLE. ADJUST/REPLACE RIM AND COLLAR TO PROPOSED GRADE PER DOWCS SD-4 & SD-5.
11. PROTECT IN PLACE EX. GATE VALVE. ADJUST/REPLACE CONCRETE COLLAR TO PROPOSED GRADE PER UDACS PLATE NO. 39.

APPROVED FOR CONSTRUCTION

DATE: 12/15/16 PROJECT No.: 124954
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

WATER MAIN JOINT DEFLECTION (PVC, 4'-24')

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET. PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

UTILITY CROSSING NOTE

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

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

ESN. 078

01/05/15

CONSTRUCTION NOTES

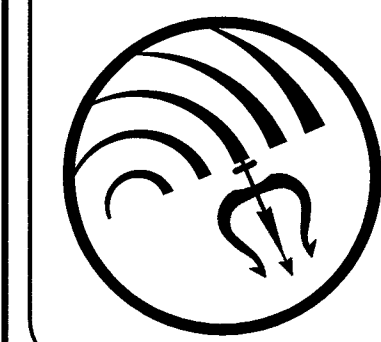
1. SAWCUT, TRENCH AND PAVEMENT RESTORATION PER UDACS PLATE NO. 17, CCAUSD #500.3, #500.4, AND #500.5.

FAST
Call before you
Underground
1-702-432-5300

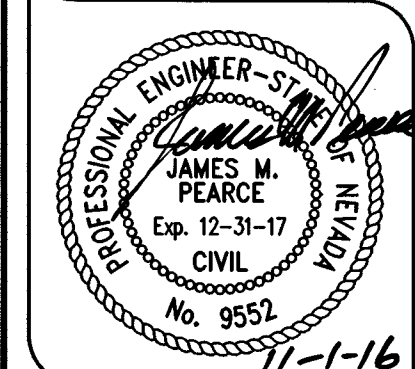
Avoid overhead power
line contact. It's costly.
**Call before you
Overhead**
1-702-227-2929

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

Triton Engineering
Office: (702) 254-1480
Suite B
Las Vegas, Nevada 89146
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DR. HORTON
MAVERICK & WASHBURN OFFSITES
MAVERICK STREET
PLAN AND PROFILE
STA 10+00 TO STA 17+00

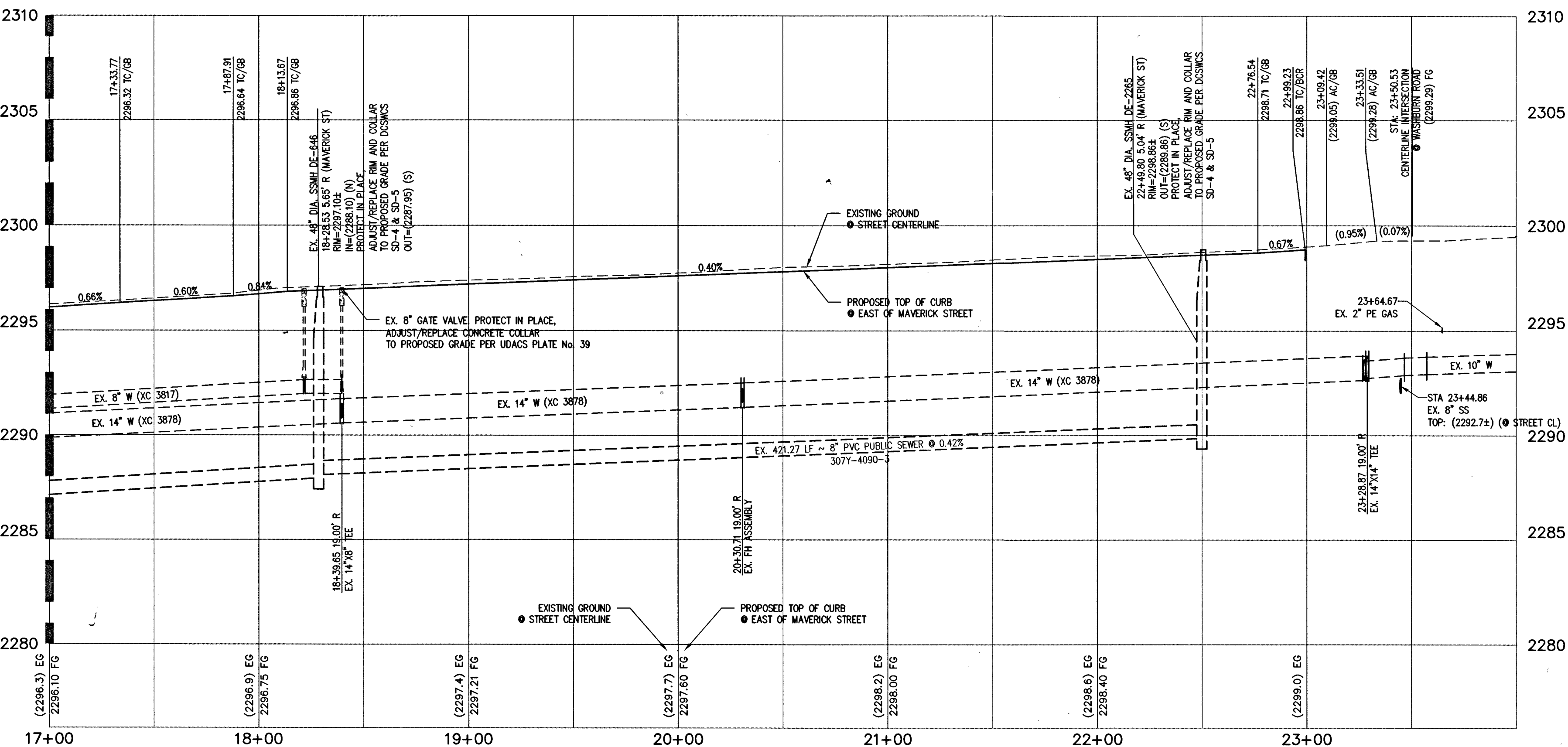


SHEET 7 OF 20
C.L.V. DWG.# 66710

PROJ#:124954 AGR:116078 QS:125-35-SE XC:11232

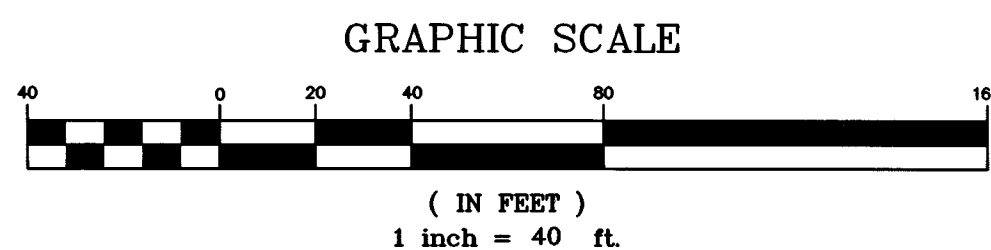
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SEE SHEET 7 FOR CONTINUATION



MAVERICK STREET (PUBLIC)

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



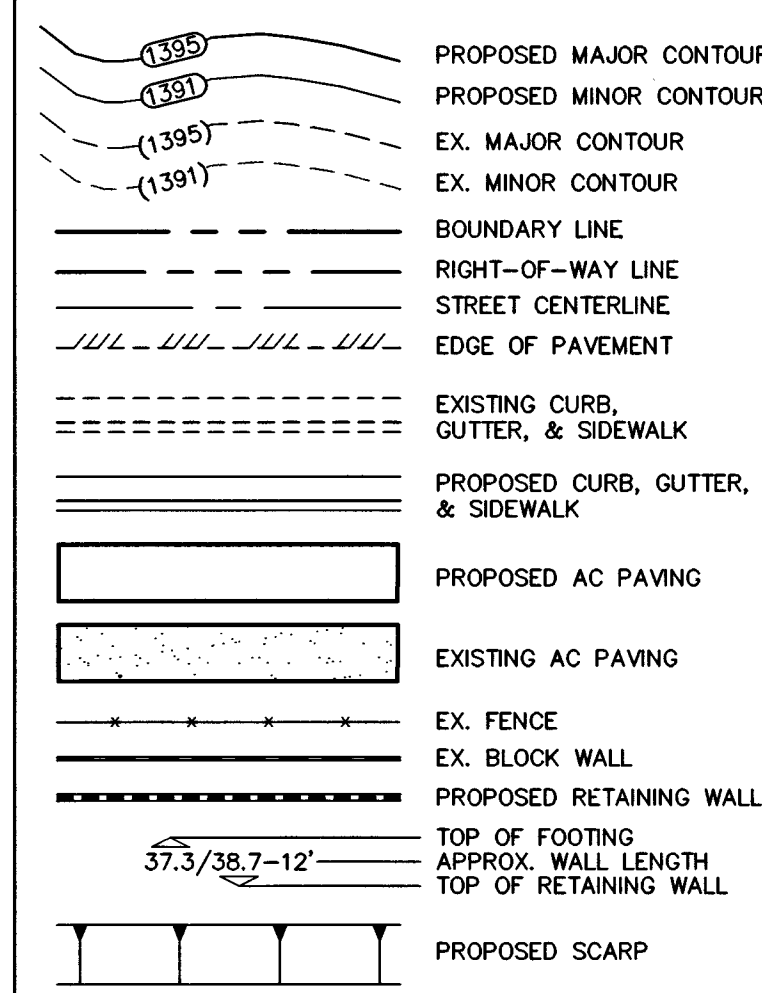
CONSTRUCTION NOTES
⑫ SAWCUT, TRENCH AND PAVEMENT RESTORATION PER UDACS PLATE NO. 17, CCAUSD #500.3, #500.4, AND #500.5.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

UTILITY CROSSING NOTE
ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

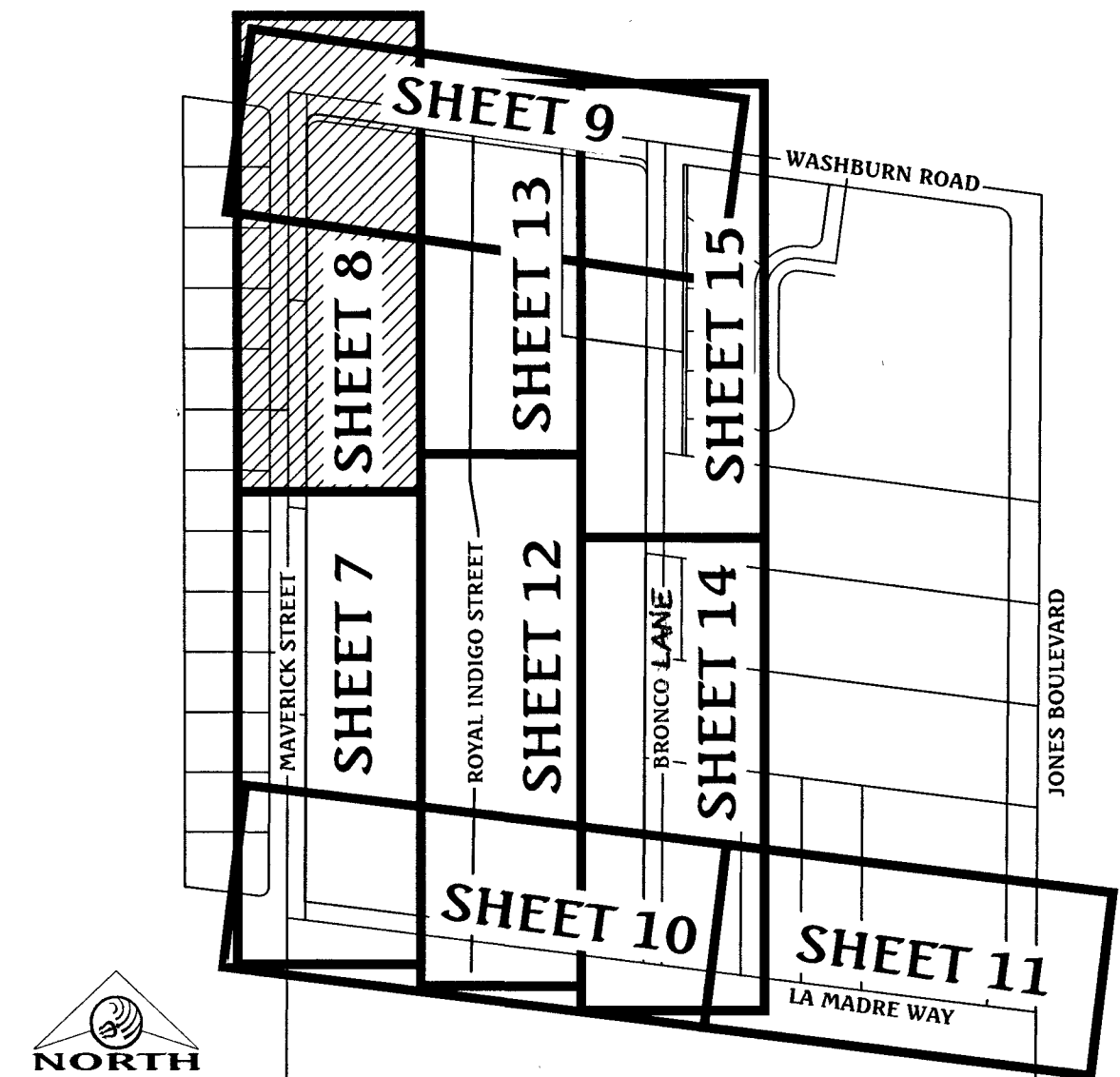
PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
ESN: 078 01/06/15

GRADING LEGEND



CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	097°00'52"	20.00'	33.86'	22.61'
C2	082°59'08"	20.00'	28.97'	17.69'
C3	097°28'44"	20.00'	34.03'	22.80'
C4	083°08'46"	20.00'	29.02'	17.74'
C5	096°01'31"	20.00'	33.52'	22.22'
C6	083°58'29"	20.00'	29.31'	18.00'
C7	096°42'54"	20.00'	33.76'	22.49'
C8	010°43'47"	200.00'	37.45'	18.78'
C9	010°21'56"	200.00'	36.18'	18.14'
C10	090°00'00"	3.00'	4.71'	3.00'
C11	090°00'00"	3.00'	4.71'	3.00'

KEY MAP



BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHWEST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV9035E6
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)

FLOOD ZONE NOTE

THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP #32003C1765F. THE SITE IS LOCATED WITHIN DESIGNATED FLOOD HAZARD ZONE X BEING AN AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.

GRADING NOTES

1. ALL PROPOSED PAD ELEVATIONS AND SWALE ELEVATIONS ARE ROUGH GRADES. ALL OTHER PROPOSED ELEVATIONS ARE FINISHED GRADES.
2. THE GRADING PLANS SHALL BE AT THE PROJECT SITE THROUGHOUT THE COURSE OF CONSTRUCTION.
3. ALL GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE LINES, GRADES AND DETAILS AS SHOWN ON THESE PLANS. ANY DEVIATION FROM THESE PLANS WILL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
4. ALL PADS ARE TO BE GRADED WITHIN ±0.3' OF THE ELEVATIONS AS SHOWN ON THE PLANS. GRADING IS NOT COMPLETE UNTIL THE ENGINEER HAS CERTIFIED THAT THE PADS HAVE BEEN GRADED IN SUBSTANTIAL CONFORMANCE TO THE PLANS.
5. ALL PLACEMENT OF OVERSIZED MATERIALS AND/OR FILL MATERIALS SHALL BE PER THE SOILS REPORT REFERENCED ON THIS PLAN.
6. ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
7. ANY CURVED CURB LESS THAN 18" MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

CONSTRUCTION NOTES

- ① CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD #216.
- ② CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
- ③ CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
- ④ CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD #235, CASE I.
- ⑤ SAWCUT AND MATCH EXISTING ASPHALT.
- ⑥ RELOCATE EXISTING FEATURE.
- ⑦ PROTECT IN PLACE EXISTING FEATURE.
- ⑧ REMOVE AND REPLACE EXISTING FEATURE.
- ⑨ CONSTRUCT "A" TYPE CURB PER DETAIL 4/SHEET 6.
- ⑩ PROTECT IN PLACE EXISTING MANHOLE, ADJUST/REPLACE RIM AND COLLAR TO PROPOSED GRADE PER DCWSCS SD-4 & SD-5.
- ⑪ PROTECT IN PLACE EX. GATE VALVE, ADJUST/REPLACE CONCRETE COLLAR TO PROPOSED GRADE PER UDACS PLATE NO. 39.

APPROVED FOR CONSTRUCTION

DATE: 12/15/16 PROJECT No.: 124954
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

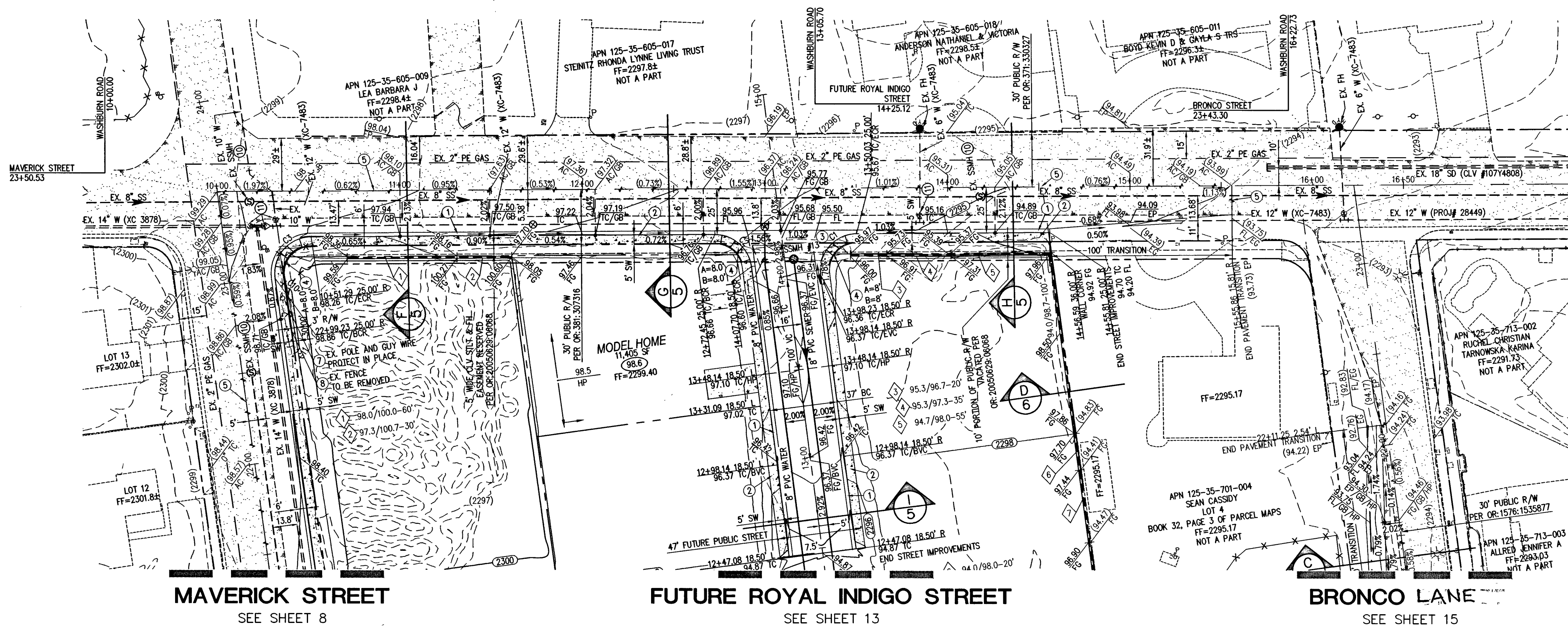
DATE	10/18/2016	NO.	DESCRIPTION	DATE	APP'D
PM	J. PEARCE				
DRAWN BY	D.L.				
DESIGNED BY	D.L.				
CHECKED BY					
ADA CHECKED					
JOB NO.	007,098				
SCALE	1" = 40'				

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MAVERICK STREET
PLAN AND PROFILE
STA 17+00 TO STA 24+00

PROFESSIONAL ENGINEER
JAMES M. PEARCE
Exp. 12-31-17
CIVIL
No. 9552
SHEET 8 OF 20
C.L.V. DWG.# 66710

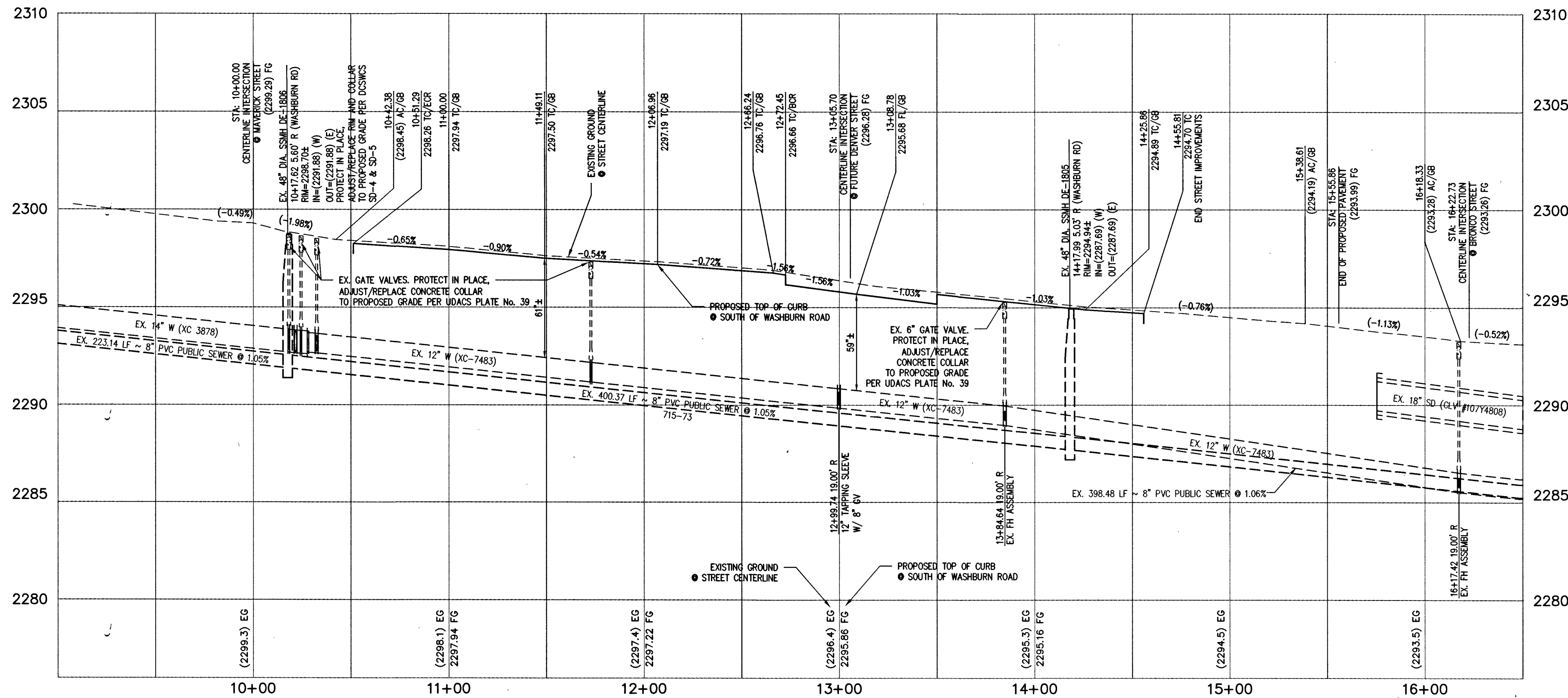
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WASHBURN ROAD (PUBLIC)

PLAN

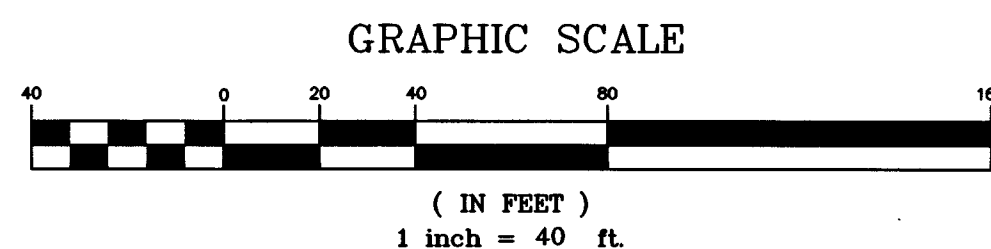
SCALE: HORIZ. 1" = 40'



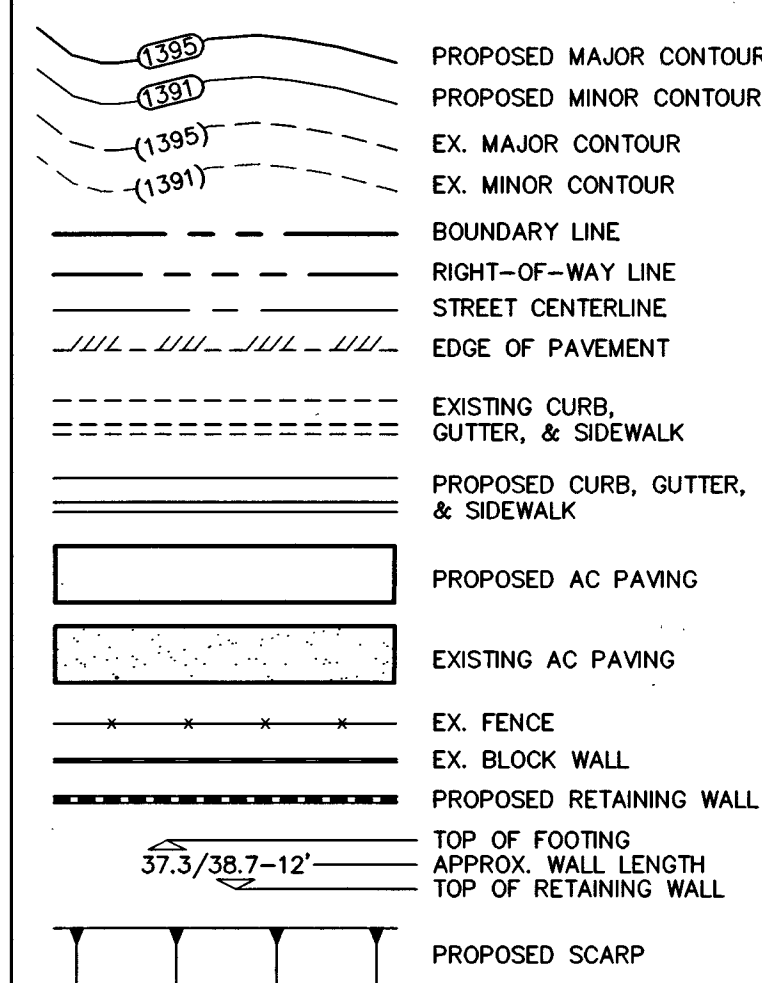
WASHBURN ROAD (PUBLIC)

PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



GRADING LEGEND



CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	097°00'52"	20.00'	33.86'	22.61'
C2	082°59'08"	20.00'	28.97'	17.69'
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C5	096°01'31"	20.00'	33.52'	22.22'
C6	083°58'29"	20.00'	29.31'	18.00'
C7	096°42'54"	20.00'	33.76'	22.49'
C8	010°43'47"	200.00'	37.45'	18.78'
C9	010°21'56"	200.00'	36.18'	18.14'
C10	090°00'00"	3.00'	4.71'	3.00'
C11	090°00'00"	3.00'	4.71'	3.00'

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET. PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

UTILITY CROSSING NOTE

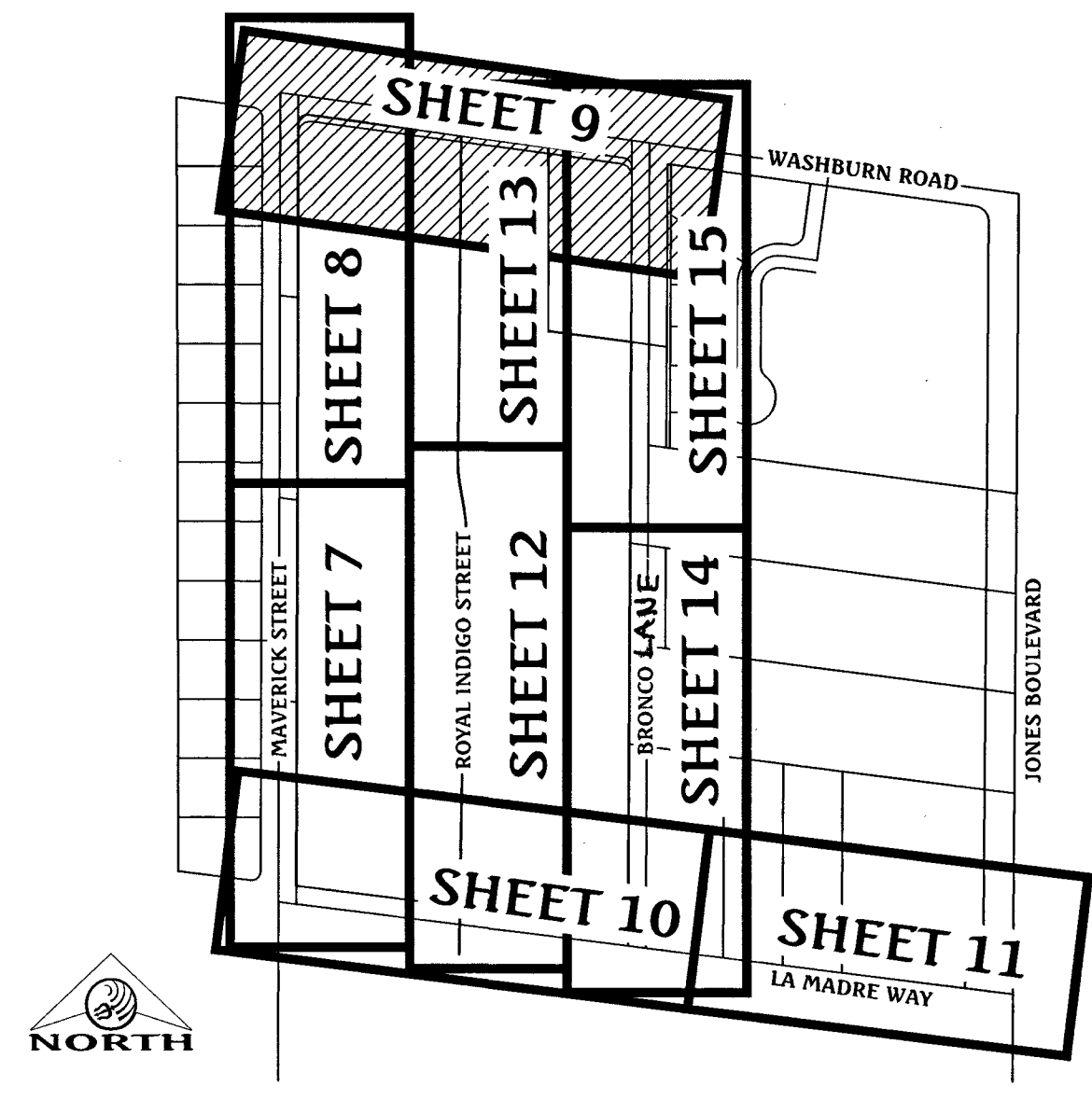
ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

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

ESH: 078 01/05/15

KEY MAP

SCALE: 1" = 300'



BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV903566
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)

FLOOD ZONE NOTE

THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP #32003C1765F. THE SITE IS LOCATED WITHIN DESIGNATED FLOOD HAZARD ZONE X BEING AN AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.

GRADING NOTES

1. ALL PROPOSED PAD ELEVATIONS AND SWALE ELEVATIONS ARE ROUGH GRADES. ALL OTHER PROPOSED ELEVATIONS ARE FINISHED GRADES.
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3. ALL GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE LINES, GRADES AND DETAILS AS SHOWN ON THESE PLANS. ANY DEVIATION FROM THESE PLANS WILL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
4. ALL PADS ARE TO BE GRADED WITHIN ±0.3' OF THE ELEVATIONS AS SHOWN ON THE PLANS. GRADING IS NOT COMPLETE UNTIL THE ENGINEER HAS CERTIFIED THAT THE PADS HAVE BEEN GRADED IN SUBSTANTIAL CONFORMANCE TO THE PLANS.
5. ALL PLACEMENT OF OVERSIZED MATERIALS AND/OR FILL MATERIALS SHALL BE PER THE SOILS REPORT REFERENCED ON THIS PLAN.
6. ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
7. ANY CURVED CURB LESS THAN 18' MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD #216.
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
4. CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD #235, CASE 1.
5. SAWCUT AND MATCH EXISTING ASPHALT.
6. RELOCATE EXISTING FEATURE.
7. PROTECT IN PLACE EXISTING FEATURE.
8. REMOVE AND REPLACE EXISTING FEATURE.
9. CONSTRUCT "A" TYPE CURB PER DETAIL 4/SHEET 6.
10. PROTECT IN PLACE EXISTING MANHOLE, ADJUST/REPLACE RIM AND COLLAR TO PROPOSED GRADE PER DCSWCS SD-4 & SD-5.
11. PROTECT IN PLACE EX. GATE VALVE, ADJUST/REPLACE CONCRETE COLLAR TO PROPOSED GRADE PER UDACS PLATE No. 39.

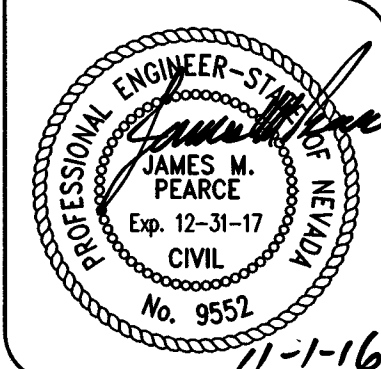
APPROVED FOR CONSTRUCTION

DATE: 12/15/16 PROJECT No.: 124954
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE	NO.	DESCRIPTION	DATE	APP'D
10/18/2016				
PM: J. PEARCE				
DRAWN BY: D.L.				
DESIGNED BY: D.L.				
CHECKED BY: D.L.				
ADA CHECKED: 007.098				
JOB NO.: 007.098				
SCALE: 1" = 40'				



DR. HORTON
MAVERICK & WASHBURN OFFSITES
WASHBURN ROAD
PLAN AND PROFILE
STA 10+00 TO STA 16+50



SHEET 9 OF 20
C.L.V. DWG.# 66710

FAST
Call before you dig
Underground
1-702-432-5300
FREEMAN & ARTERIAL
SYSTEMS OF TRANSPORTATION

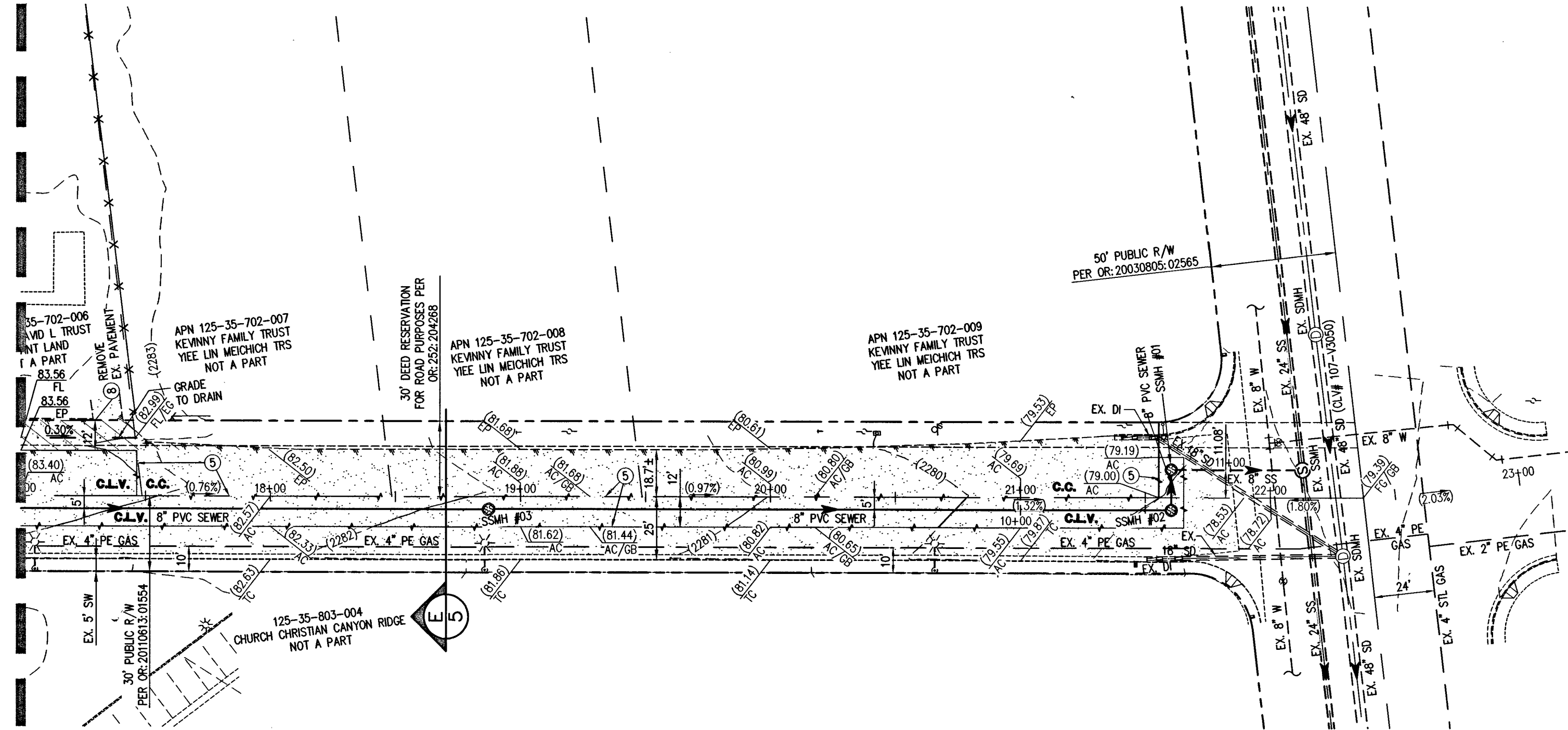
Avoid overhead power line contact. It's costly.
Call before you dig
Overhead
1-702-227-2929

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

107V4757

PROJ#124954 AGR:16078 QS:125-35-SE XC:11232

SEE SHEET 10 FOR CONTINUATION



CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	097°00'52"	20.00'	33.86'	22.61'
C2	082°59'08"	20.00'	28.97'	17.69'
C3	097°28'44"	20.00'	34.03'	22.80'
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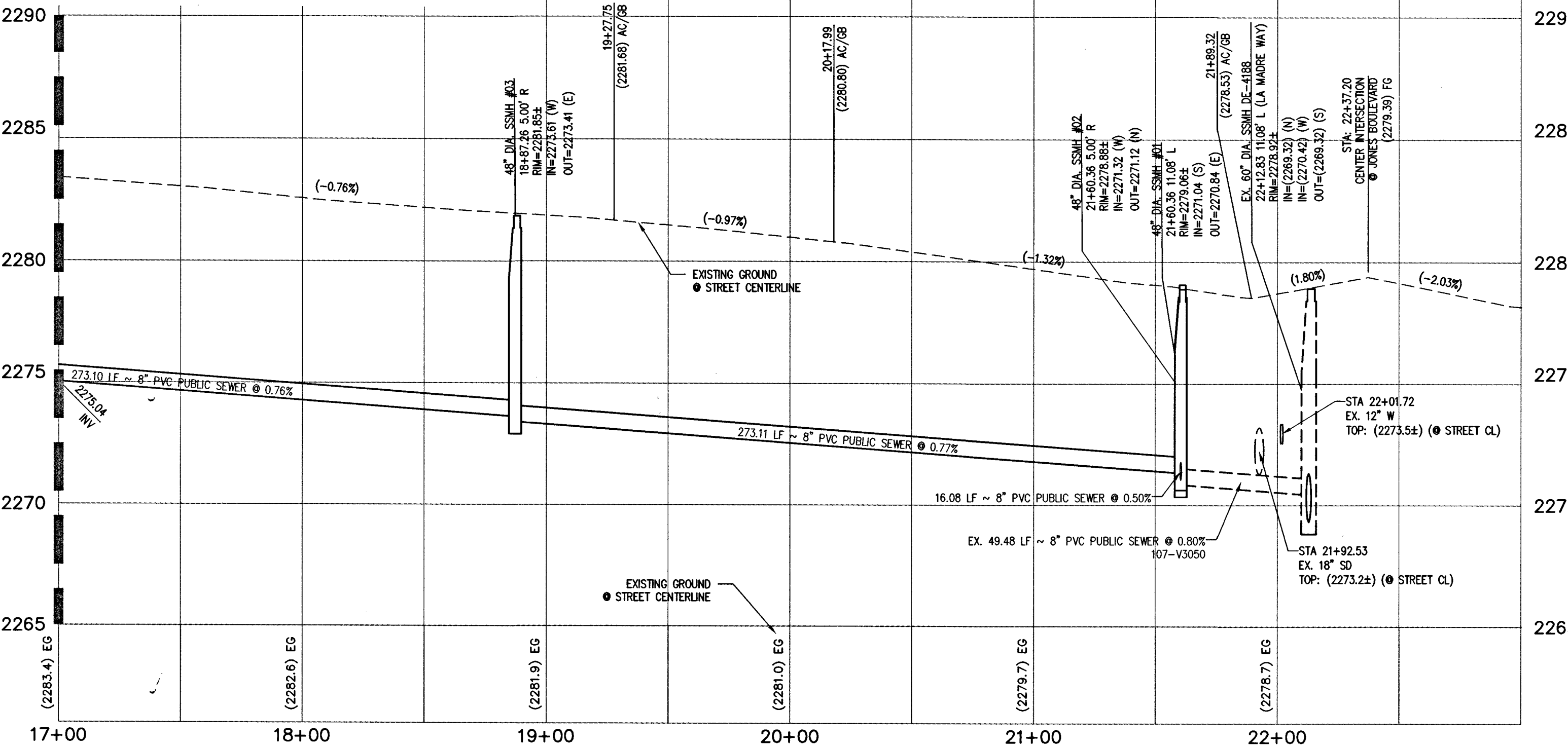
LA MADRE WAY (PUBLIC)

PLAN

SCALE: HORIZ. 1" = 40'



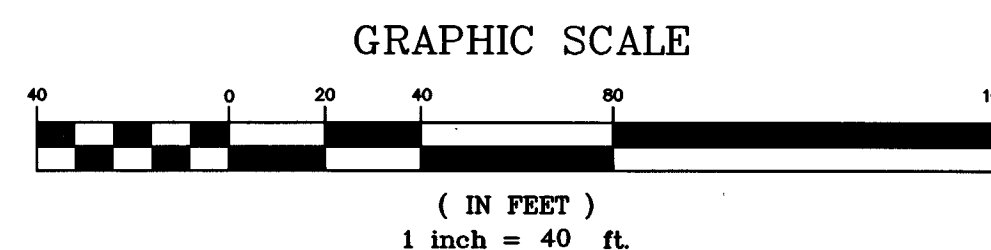
SEE SHEET 10 FOR CONTINUATION



LA MADRE WAY (PUBLIC)

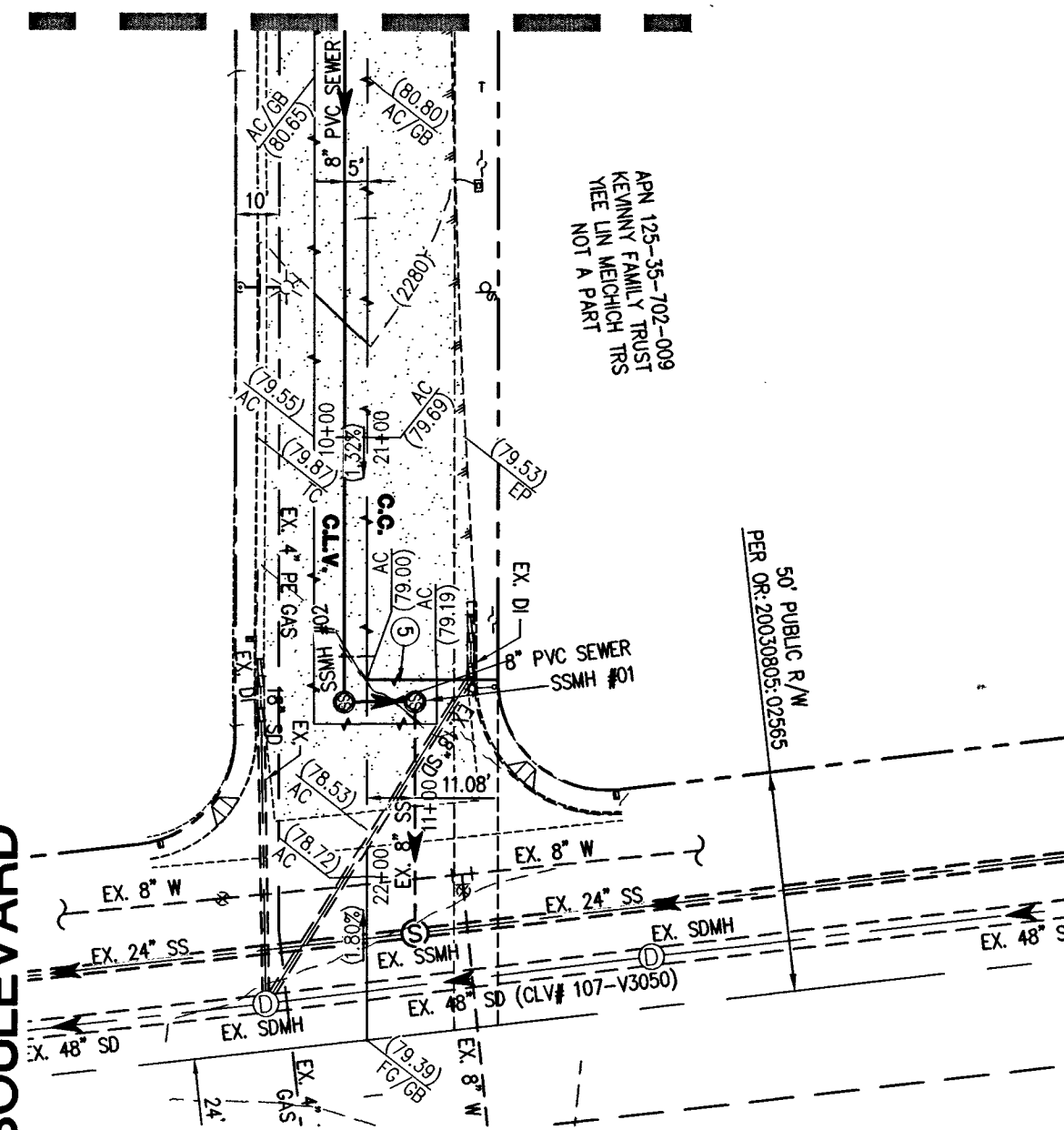
PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'



EX. NORTH JONES BOULEVARD

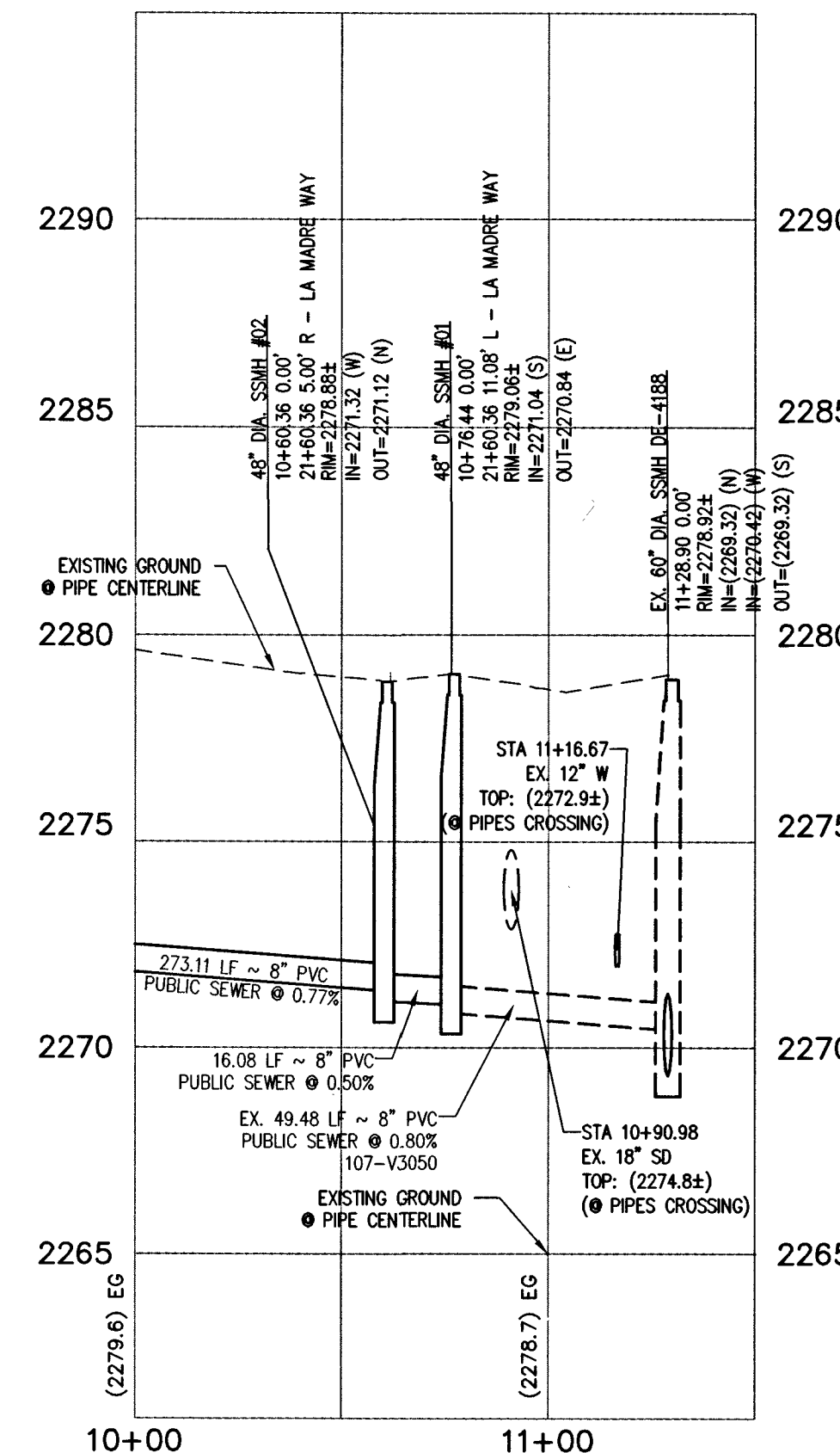
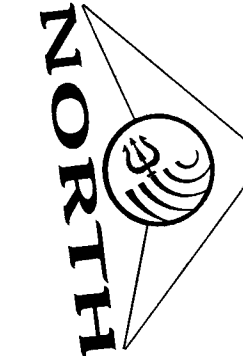
SEE LEFT
LA MADRE WAY



8" SANITARY SEWER

PLAN

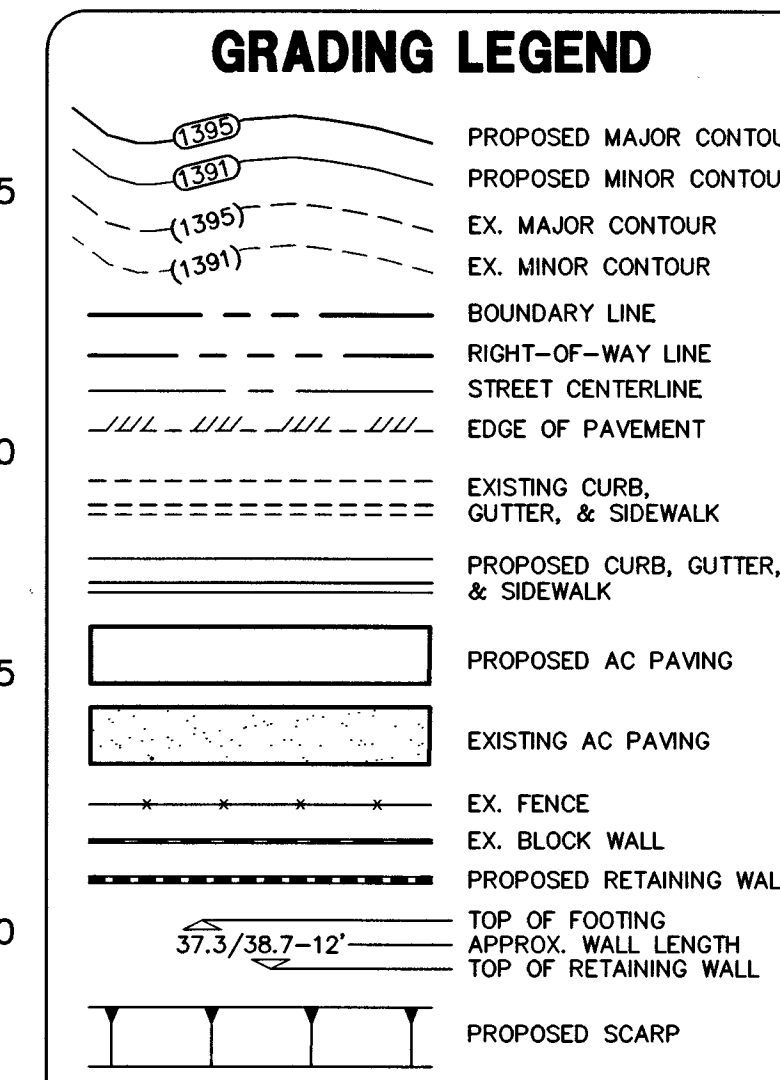
SCALE: HORIZ. 1" = 40'



8" SANITARY SEWER

PROFILE

SCALE: HORIZ. 1" = 40'
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WATER MAIN JOINT DEFLECTION (PVC, 4'-24')

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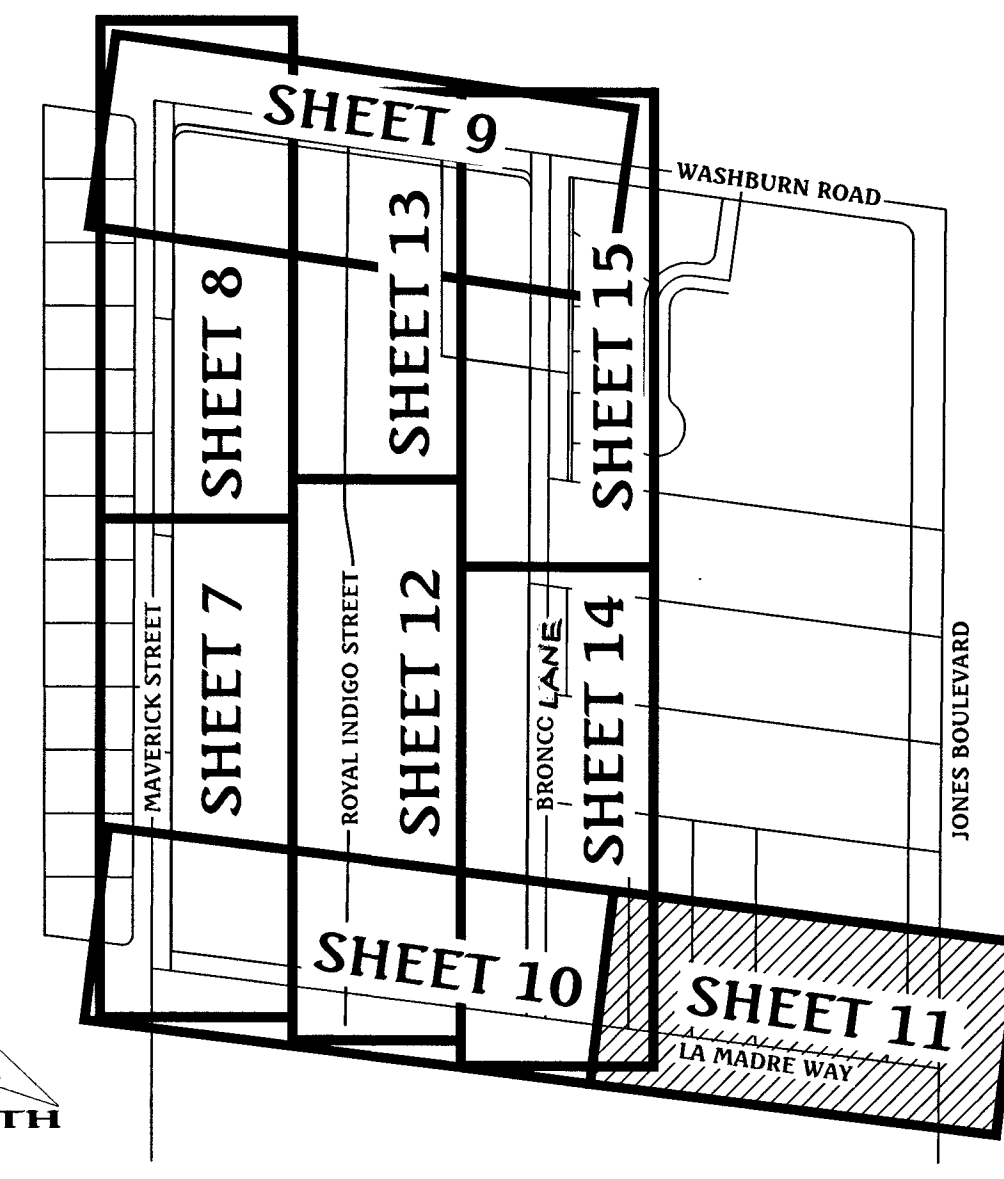
PROTECT IN PLACE AND ADJUST L.V.W.D. EXISTING FACILITIES TO FINISHED GRADE. ALL L.V.W.D. FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

ESH. 078

01/05/15

KEY MAP

SCALE: 1" = 300'



BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NO. BLV903566
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
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- ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
- ANY CURVED CURB LESS THAN 12' MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

CONSTRUCTION NOTES

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- CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
- CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
- CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD #235, CASE 1.
- SAWCUT AND MATCH EXISTING ASPHALT.
- RELOCATE EXISTING FEATURE.
- PROTECT IN PLACE EXISTING FEATURE.
- REMOVE AND REPLACE EXISTING FEATURE.
- CONSTRUCT "A" TYPE CURB PER DETAIL J/SHEET 6.
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- PROTECT IN PLACE EX. GATE VALVE. ADJUST/REPLACE CONCRETE COLLAR TO PROPOSED GRADE PER UDACS PLATE NO. 39.

APPROVED FOR CONSTRUCTION

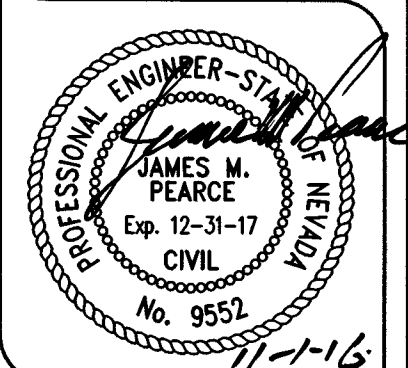
DATE: 12/15/16 PROJECT No.: 124954
LAS VEGAS VALLEY WATER-DISTRICT ENGINEERING SERVICES MANAGER

DATE	10/18/2016	NO.	DESCRIPTION	DATE	APP'D
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DRAWN BY	D.L.				
DESIGNED BY	D.L.				
CHECKED BY					
ADA CHECKED					
JOB NO.	007.098				
SCALE	1" = 40'				

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LA MADRE WAY
PLAN AND PROFILE
STA 17+00 TO STA 24+00

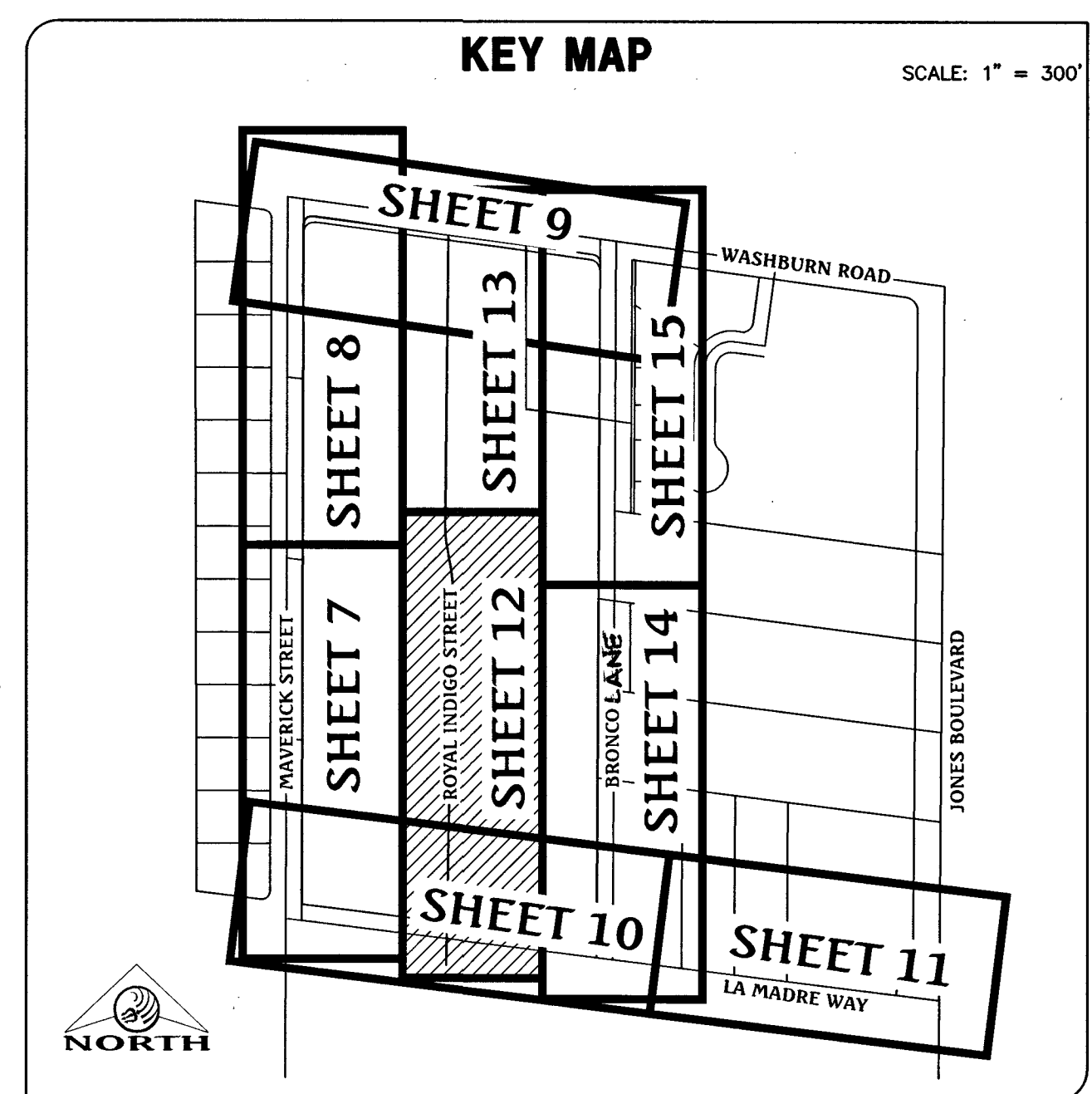
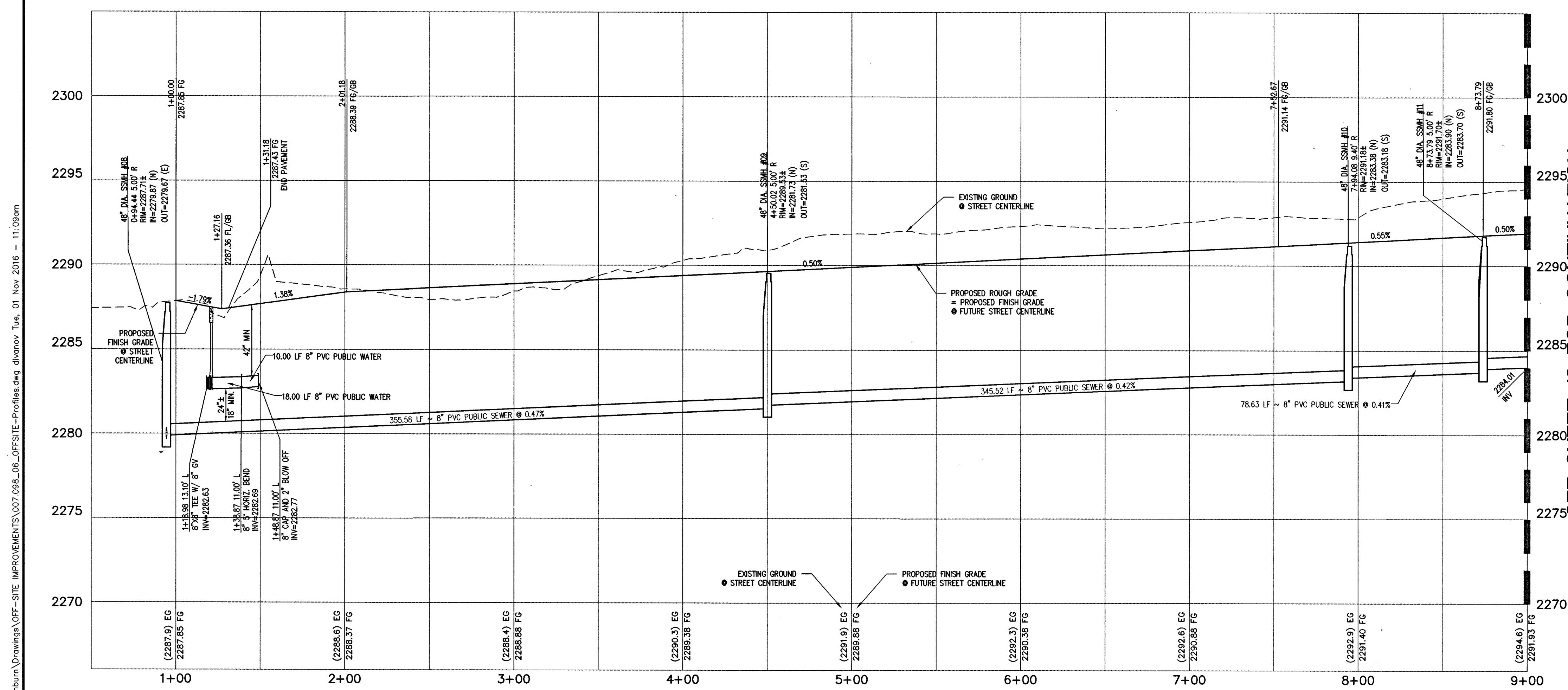
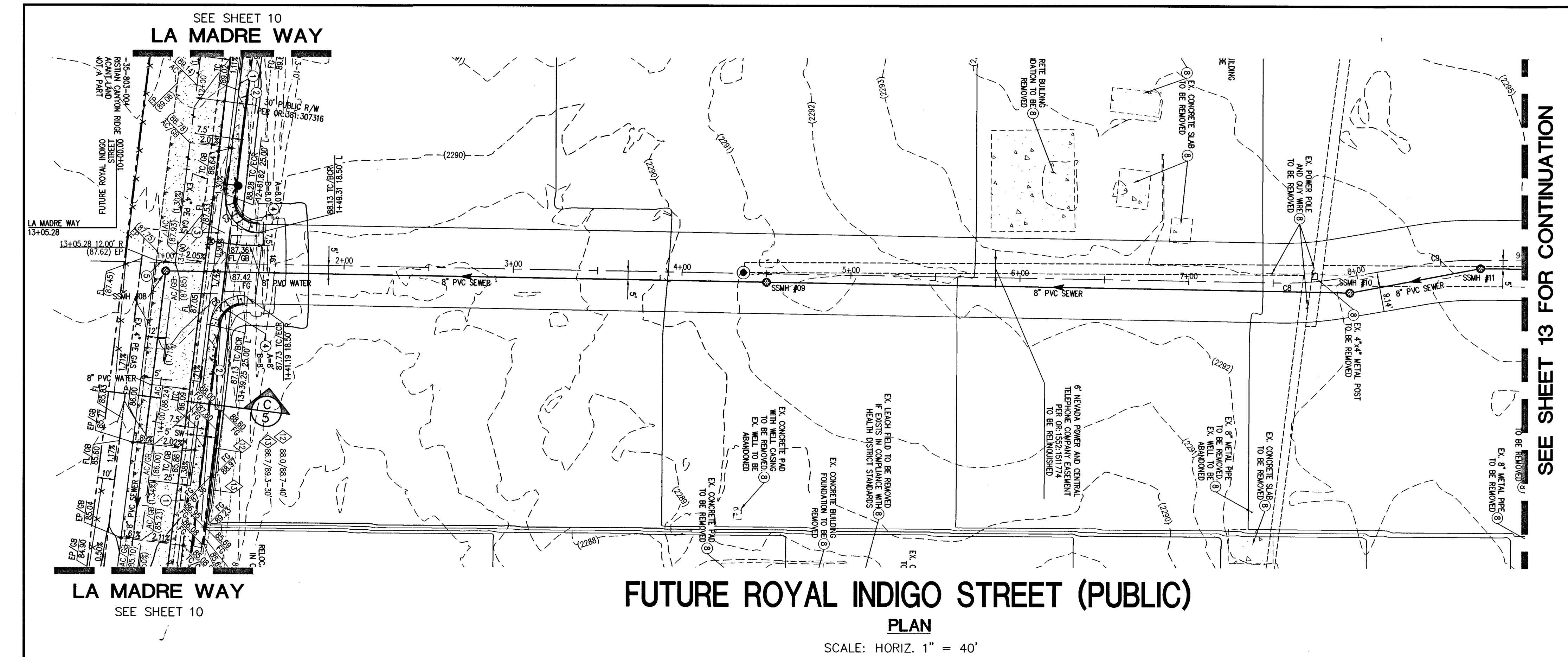


SHEET 11 OF 20
C.L.V. DWG.# 66710

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FREEWAY & AIRTEL
SYSTEM OF TRANSPORTATION

Avoid overhead power line contact. It's costly.
Call before you dig
Overhead
1-702-227-2929

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



GRADING LEGEND

(1395)	PROPOSED MAJOR CONTOUR
(1397)	PROPOSED MINOR CONTOUR
(1399)	EX. MAJOR CONTOUR
(1391)	EX. MINOR CONTOUR
---	BOUNDARY LINE
---	RIGHT-OF-WAY LINE
---	STREET CENTERLINE
---	EDGE OF PAVEMENT
---	EXISTING CURB, GUTTER, & SIDEWALK
---	PROPOSED CURB, GUTTER, & SIDEWALK
---	PROPOSED AC PAVING
---	EXISTING AC PAVING
---	EX. FENCE
---	EX. BLOCK WALL
---	PROPOSED RETAINING WALL
---	TOP OF FOOTING
---	APPROX. WALL LENGTH
---	TOP OF RETAINING WALL
---	PROPOSED SCARP

BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV90356E
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)

FLOOD ZONE NOTE

THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP #32003C1765F. THE SITE IS LOCATED WITHIN DESIGNATED FLOOD HAZARD ZONE X BEING AN AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.

- GRADING NOTES**
1. ALL PROPOSED PAD ELEVATIONS AND SWALE ELEVATIONS ARE ROUGH GRADES. ALL OTHER PROPOSED ELEVATIONS ARE FINISHED GRADES.
 2. THE GRADING PLANS SHALL BE AT THE PROJECT SITE THROUGHOUT THE COURSE OF CONSTRUCTION.
 3. ALL GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE LINES, GRADES AND DETAILS AS SHOWN ON THESE PLANS. ANY DEVIATION FROM THESE PLANS WILL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
 4. ALL PADS ARE TO BE GRADED WITHIN ±0.3' OF THE ELEVATIONS AS SHOWN ON THE PLANS. GRADING IS NOT COMPLETE UNTIL THE ENGINEER HAS CERTIFIED THAT THE PADS HAVE BEEN GRADED IN SUBSTANTIAL CONFORMANCE TO THE PLANS.
 5. ALL PLACEMENT OF OVERSIZED MATERIALS AND/OR FILL MATERIALS SHALL BE PER THE SOILS REPORT REFERENCED ON THIS PLAN.
 6. ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
 7. ANY CURVED CURB LESS THAN 12' MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

UTILITY CROSSING NOTE

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

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

ESH: 078 01/05/15

- CONSTRUCTION NOTES**
1. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD #216.
 2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
 3. CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
 4. CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD #235, CASE 1.
 5. SAWCUT AND MATCH EXISTING ASPHALT.
 6. RELOCATE EXISTING FEATURE.
 7. PROTECT IN PLACE EXISTING FEATURE.
 8. REMOVE AND REPLACE EXISTING FEATURE.
 9. CONSTRUCT "A" TYPE CURB PER DETAIL J/SHEET 6.
 10. PROTECT IN PLACE EXISTING MANHOLE.
 11. ADJUST/REPLACE RIM AND COLLAR TO PROPOSED GRADE PER DCSWCS SD-4 & SD-5.
 12. PROTECT IN PLACE EX. GATE VALVE.
 13. ADJUST/REPLACE CONCRETE COLLAR TO PROPOSED GRADE PER UDACS PLATE NO. 39.

APPROVED FOR CONSTRUCTION

DATE: 12/15/16 PROJECT NO.: 124954

107V6157

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Overhead
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CALL 811
OR 1-800-227-2800

FUTURE ROYAL INDIGO STREET (PUBLIC)

GRAPHIC SCALE
1 inch = 40 ft.

NORTH

DATE: 10/18/2016
DRAWN BY: J. PEARCE
DESIGNED BY: D.I.
CHECKED BY: D.I.
ADA CHECKED: 007.098
JOB NO.: 007.098
SCALE: 1" = 40'

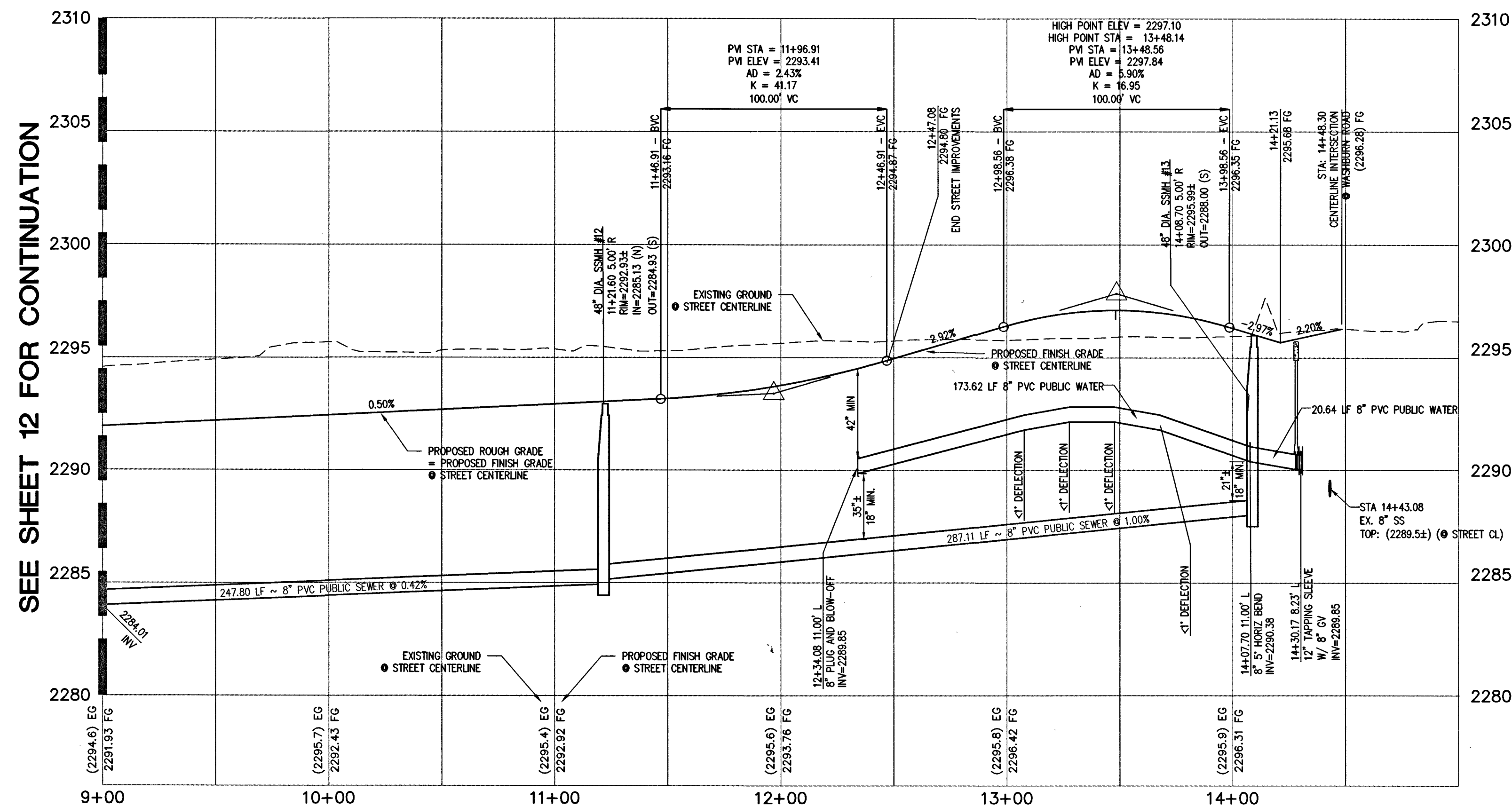
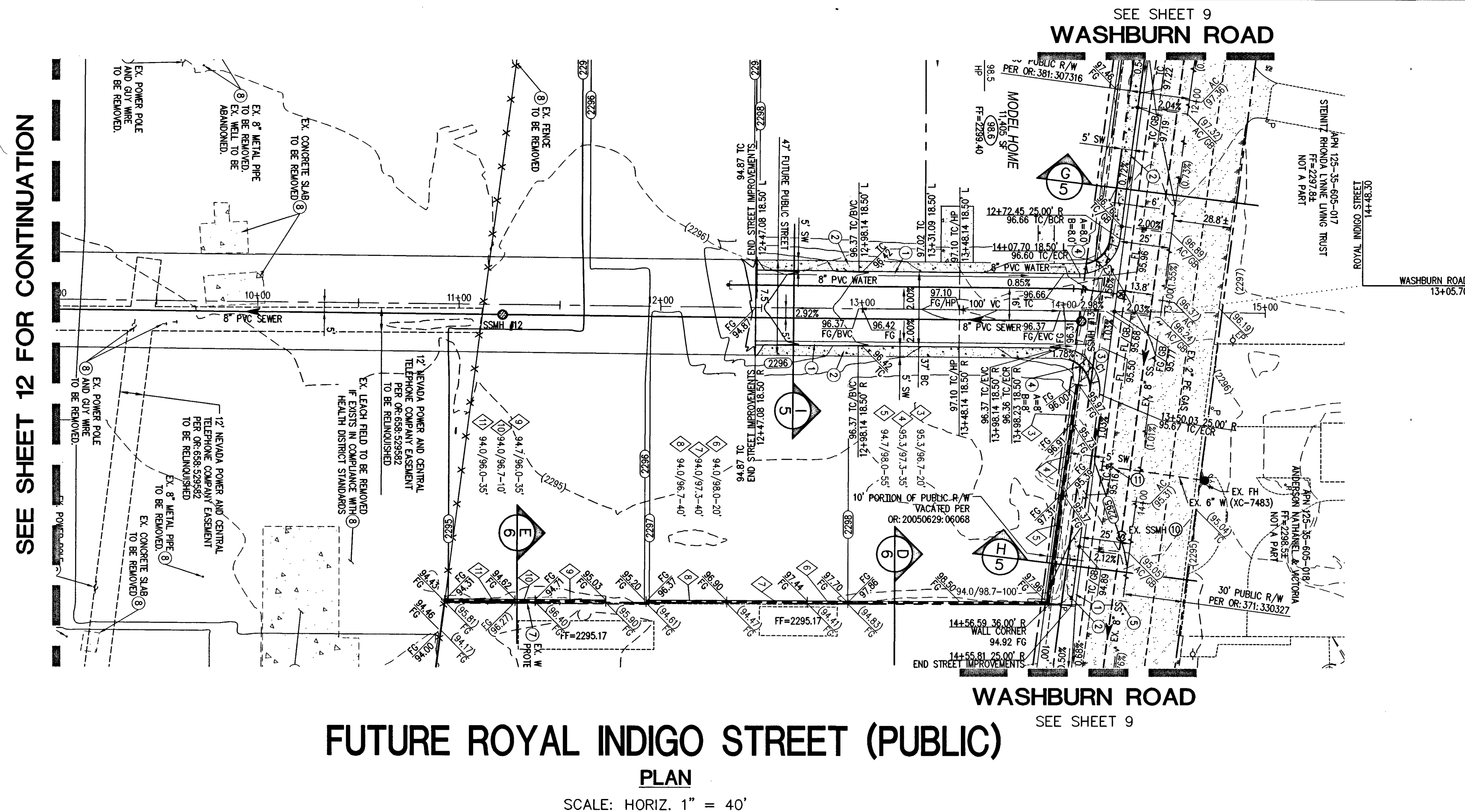
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FUTURE ROYAL INDIGO STREET
PLAN AND PROFILE
STA 1+00 TO STA 9+00

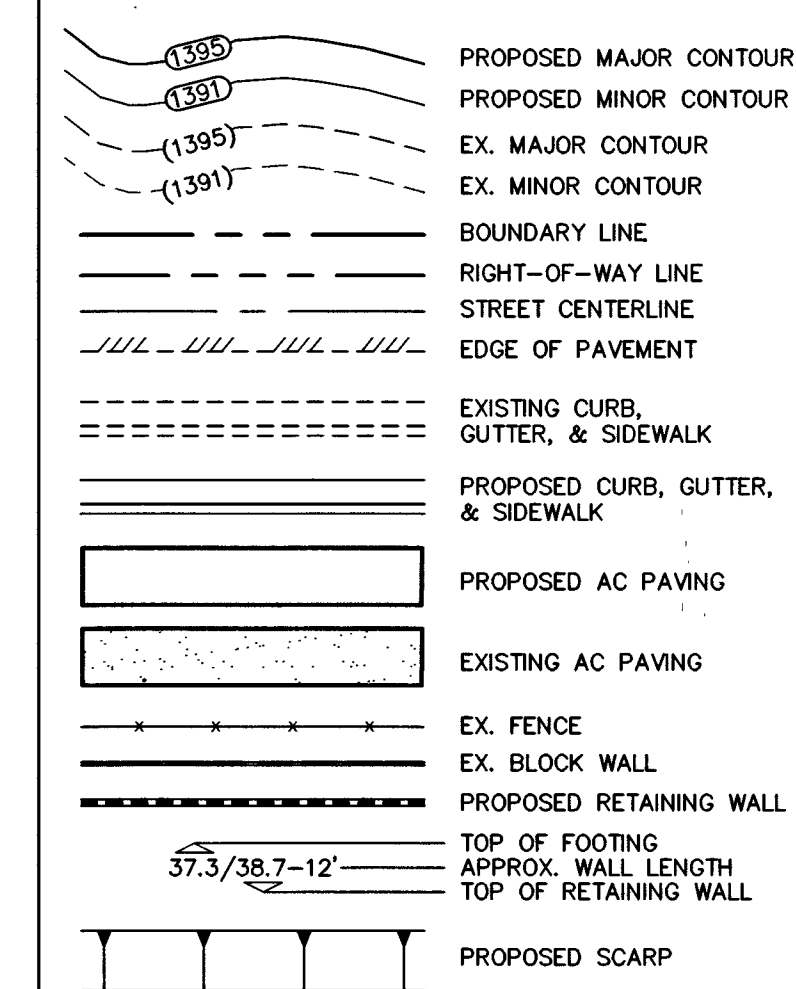
PROFESSIONAL ENGINEER
JAMES M. PEARCE
Exp. 12-31-17
CIVIL
No. 9552

SHEET 12 OF 20
C.L.V. DWG.# 68710

PROJECT#124954 AGR:116078 QS:125-35-SE QC:11232



GRADING LEGEND



CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	097°00'52"	20.00'	33.86'	22.61'
C2	082°59'08"	20.00'	28.97'	17.69'
C3	097°28'44"	20.00'	34.03'	22.80'
C4	083°08'46"	20.00'	29.02'	17.74'
C5	096°01'31"	20.00'	33.52'	22.22'
C6	083°58'29"	20.00'	29.31'	18.00'
C7	096°42'54"	20.00'	33.76'	22.49'
C8	010°43'47"	200.00'	37.45'	18.78'
C9	010°21'56"	200.00'	36.18'	18.14'
C10	090°00'00"	3.00'	4.71'	3.00'
C11	090°00'00"	3.00'	4.71'	3.00'

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDCS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

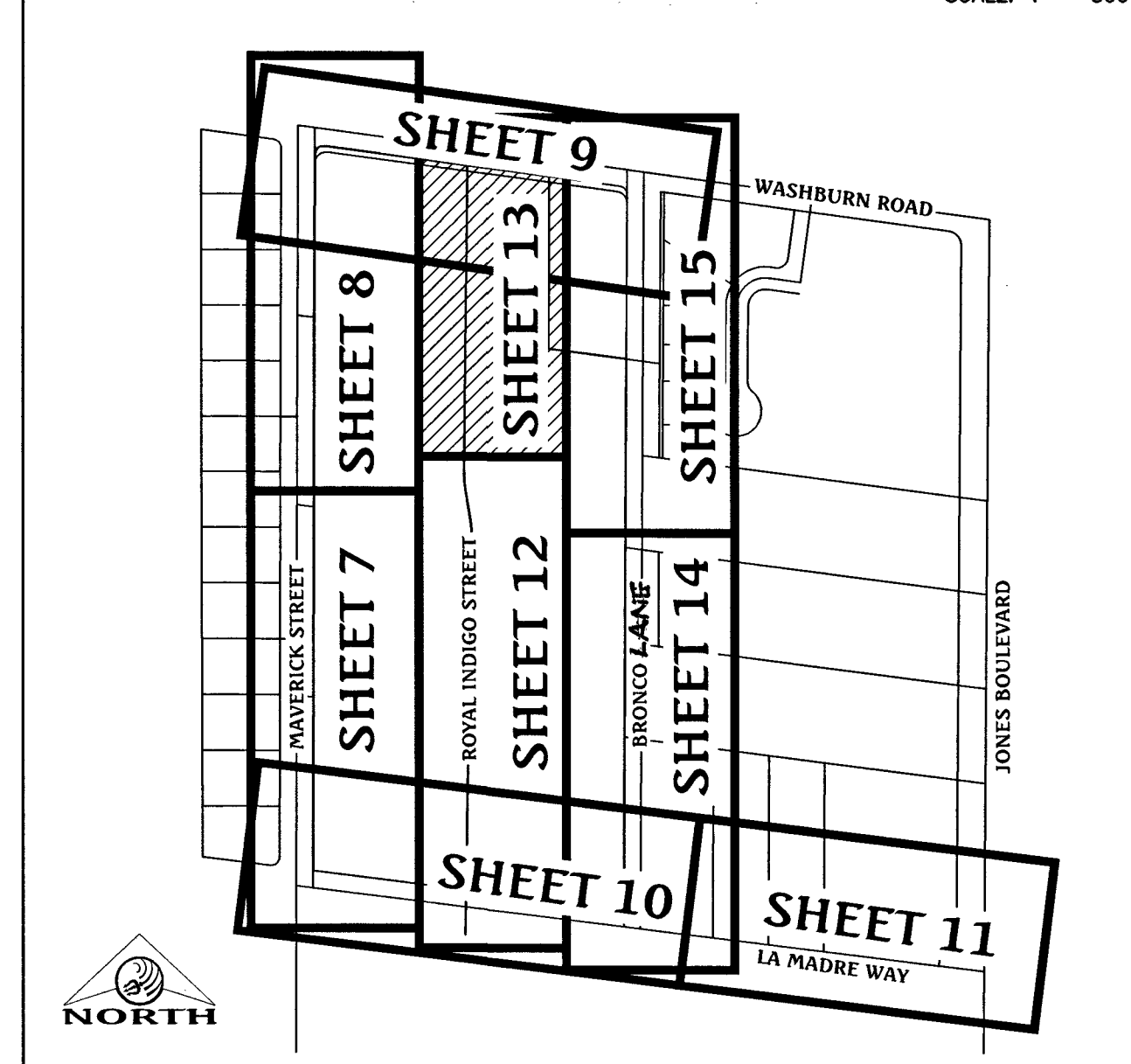
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PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

ESN: 078 01/05/15

KEY MAP



BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THE CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV903568
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2296.95 U.S. FEET (NAVD'88 2008 ADJ.)

FLOOD ZONE NOTE

THE PROJECT SITE IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP #32003C1765. THE SITE IS LOCATED WITHIN DESIGNATED FLOOD HAZARD ZONE X BEING AN AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOOD PLAIN.

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- ADD 2200 TO ALL SPOT GRADES AND TOP OF CURB, FLOW LINE AND FINISH GRADE ELEVATIONS.
- ANY CURVED CURB LESS THAN 18" MUST BE WATER TESTED BY CONTRACTOR AS REQUIRED BY CITY INSPECTOR.

CONSTRUCTION NOTES

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- CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
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- RELOCATE EXISTING FEATURE.
- PROTECT IN PLACE EXISTING FEATURE.
- REMOVE AND REPLACE EXISTING FEATURE.
- CONSTRUCT "A" TYPE CURB PER DETAIL J/SHEET 6.
- PROTECT IN PLACE EXISTING MANHOLE. ADJUST/REPLACE RIM AND COLLAR TO PROPOSED GRADE PER DCSWCS SD-4 & SD-5.
- PROTECT IN PLACE EX. GATE VALVE. ADJUST/REPLACE CONCRETE COLLAR TO PROPOSED GRADE PER UDCS PLATE NO. 39.

APPROVED FOR CONSTRUCTION

DATE: 12/13/16 PROJECT No.: 124954

NO.	DESCRIPTION	DATE	APP'D
1			
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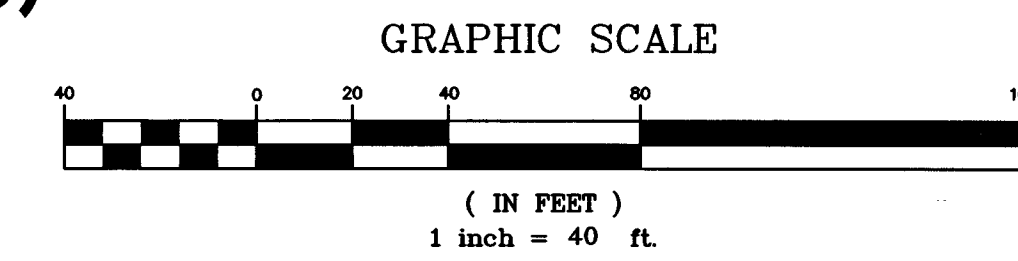
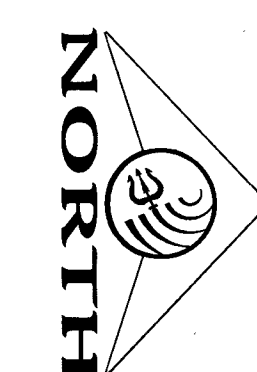
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MAVERICK & WASHBURN OFFSITES
FUTURE ROYAL INDIGO STREET
PLAN AND PROFILE
STA 9+00 TO STA 15+00

PROFESSIONAL ENGINEER
JAMES M. PEARCE
Exp. 12-31-17
CIVIL
No. 9552
11-1-16
SHEET 13 OF 20
C.L.V. DWG.# 66710

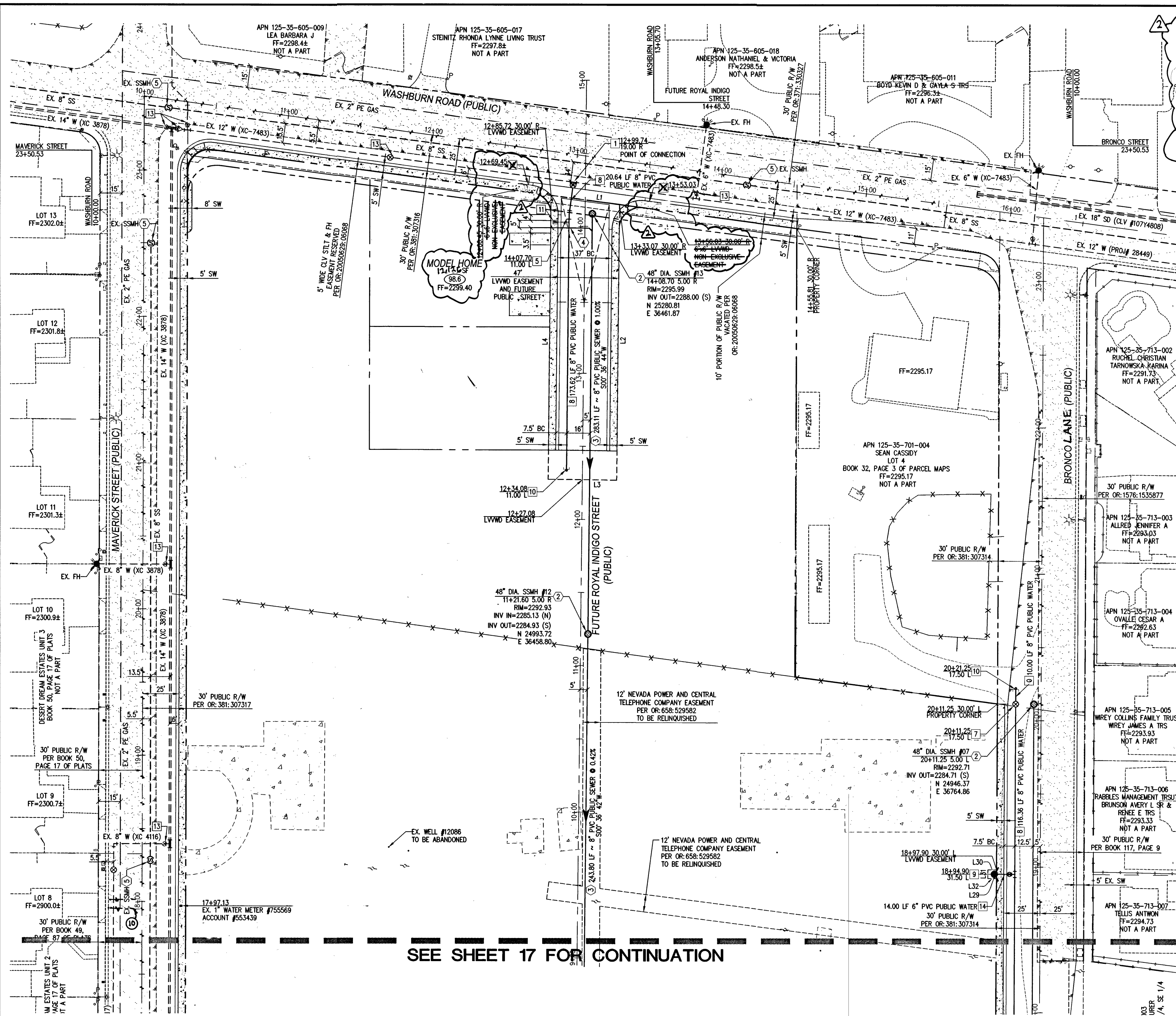
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Q:\Triton Drawings\007-098 Maverick\Drawings\007-098_13_Offsite-Utilities.dwg, 01 Nov 2016 - 11:17am



SEE SHEET 17 FOR CONTINUATION

REDUCED PRESSURE PRINCIPLE ASSEMBLY (4) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 30, 34, 39 & SEC. 2.24.01B. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. BLOCK WALLS OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAMPED PRIOR TO THE START OF CONSTRUCTION.

PRV PRESSURE REDUCING VALVE

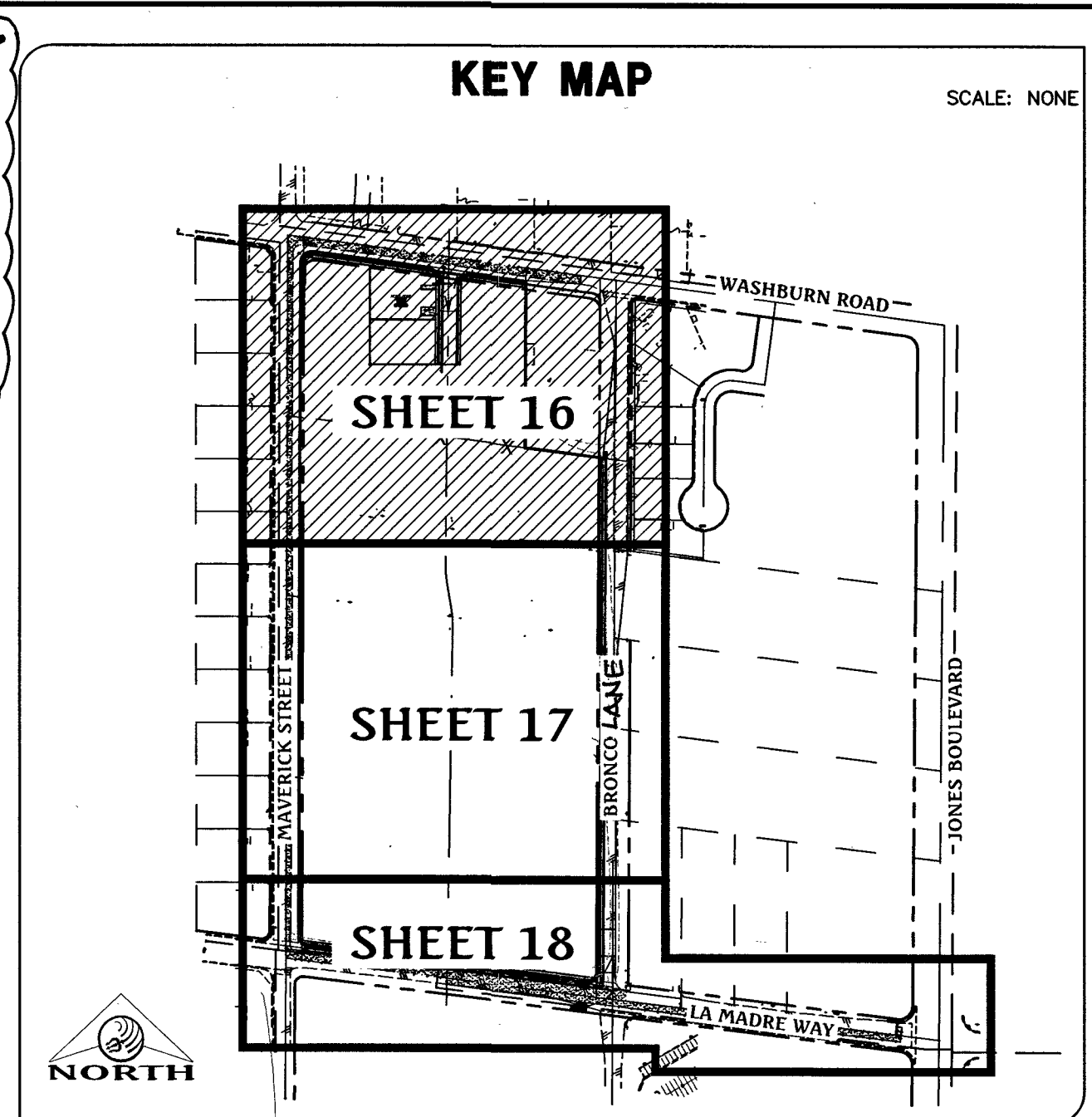
NO PRVS ARE REQUIRED FOR THIS PROJECT.

BACK WATER VALVE

BACKWATER VALVES REQUIRED PER U.P.C., LATEST EDITION, SECTION 710.0.

MODEL HOME LOT DOES NOT REQUIRE A BWV

TOTAL LOTS REQUIRING BACKWATER VALVES = 0



UTILITY LEGEND

EX. GAS	EXISTING GAS	PROPOSED STANDARD FIRE HYDRANT WITH 6" LATERAL, 6" GATE VALVE AND TEE
EX. 10" S	EXISTING SEWER MAIN	8" S
EX. 36" SD	EXISTING STORM DRAIN	PROPOSED SEWER MAIN
EX. 8" W	EXISTING WATER MAIN	PROPOSED SEWER LATERAL
8" W	PROPOSED WATER MAIN	EXISTING STORM DRAIN
PROPOSED UTILITY MANHOLE	EXISTING UTILITY MANHOLE	PROPOSED STORM DRAIN
PROPOSED VALVE	EXISTING VALVE	PROPOSED WATER MAIN
PROPOSED REDUCER	PROPOSED REDUCER	PROPOSED WATER LATERAL WITH 3/4" METER
		PROPOSED 100W HPS STREET LIGHT
		EXISTING STREET LIGHT
		PROPOSED 150W HPS STREET LIGHT
		PROPOSED 200W HPS STREET LIGHT
		PROPOSED 250W HPS STREET LIGHT
		PROPOSED 400W HPS STREET LIGHT
		PROPOSED CONCRETE DRIVEWAY

WATER CONSTRUCTION NOTES

- POC (2420 P2) - INSTALL 12" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE NO. 30, 34, 39 & SEC. 2.24.01B.
- POC (2420 P2) - REMOVE EXISTING BLOW OFF W/ CAP AND CORROSION STOP PER UDACS PLATE NO. 36 AND INSTALL 12"X8" REDUCER PER UDACS PLATE NO. 30.
- INSTALL 8" 90° BEND PER UDACS PLATE NO. 31.
- INSTALL 8" 11.25° BEND PER UDACS PLATE NO. 31.
- INSTALL 8" 5° BEND PER UDACS PLATE NO. 31.
- INSTALL 8" TEE PER UDACS PLATE NO. 31.
- INSTALL 8" GATE VALVE PER UDACS PLATE NO. 17.
- INSTALL FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE AND 8"x6" TEE PER UDACS PLATE NO. 31, 39 & 40.
- INSTALL 2" BLOW OFF ASSEMBLY WITH CAP PER UDACS PLATE NO. 36.
- INSTALL 1" COPPER WATER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 30.
- INSTALL 6" PVC WATER PIPE PER UDACS PLATE NO. 17.
- INSTALL 10"x8" REDUCER PER UDACS PLATE NO. 30.
- INSTALL 10" 5° BEND PER UDACS PLATE NO. 31.
- INSTALL 10" PVC WATER PIPE PER UDACS PLATE NO. 17.

SANITARY SEWER CONSTRUCTION NOTES

- POC - CONNECT TO EXISTING 8" SEWER, REMOVE EXISTING CAP AND INSTALL 48" MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 WITH PRECAST BASE AND SINGLE LID.
- INSTALL 48" MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 WITH PRECAST BASE AND SINGLE LID.
- INSTALL 8" PVC SEWER PIPE PER DCSWCS SD-16.
- INSTALL 4" PVC SEWER LATERAL WITH MARKER BALL & CURB MARKING, PER DCSWCS SD-22 AND SD-25.
- EX. MANHOLE, PROTECT IN PLACE, ADJUST/REPLACE CONCRETE COLLAR PER DCSWCS SD-4.

BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV903566

RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.

ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)

ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

APPROVALS

11/1/16

DATE: 12/15/16 PROJECT No.: 124954

LAS VEGAS FIRE AND RESCUE

APPROVED FOR CONSTRUCTION

12/15/16

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 12/15/16 PROJECT No.: 124954

LVWD APPROVED FIRE FLOW 1750 GPM @ 20 PSI RESIDUAL

LVWD EASEMENT LINE TABLE

LINE	LENGTH	BEARING
L1	47.35'	S82°22'26"E
L2	188.10'	S0°36'42"W
L3	47.00'	N89°23'18"W
L4	193.89'	N0°36'42"E
L5	6.00'	N82°22'26"W
L6	0.00'	N62°22'26"E
L7	0.00'	S62°22'26"E
L8	0.00'	N73°37'34"E
L9	0.00'	N62°22'26"W
L10	0.00'	N73°37'34"E
L11	6.00'	S82°22'26"E
L12	0.00'	S73°37'34"W

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 1,750 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE: 3,615 SQUARE FEET

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQUARE FEET

BUILDING HEIGHT: 22 FEET

NUMBER OF STORIES: 2 FLOORS

TYPE OF CONSTRUCTION: V-B

OCCUPANCY: SINGLE FAMILY RESIDENTIAL

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO

PRIVATE WELLS (WITH REVOCABLE RIGHTS) TO BE REMOVED FROM SERVICE

THE EXISTING PRIVATE WELLS ARE TO BE ABANDONED. THE DISTRICT WATER SERVICE WILL REMAIN IN THE OFF AND LOCKED POSITION UNTIL THE WELL HAS BEEN ABANDONED. THE STATE OF NEVADA DIVISION OF WATER RESOURCES (TELEPHONE NUMBER 702-486-2770) MAY BE CONTACTED FOR INFORMATION CONCERNING REQUIREMENTS AND PROCEDURES FOR ABANDONING WELLS. PROOF FROM THE STATE THAT THE WELL HAS BEEN ABANDONED AND IS NO LONGER FUNCTIONAL WILL BE REQUIRED AS A CONDITION OF PROJECT ACCEPTANCE AND SERVICE ACTIVATION. GWMP# 15571 (ABANDONED PER WELL DRILLERS LOG REPORT)

ABANDONMENT OF EXISTING SERVICE(S)-3" AND SMALLER

The Contractor shall notify the Inspection Division of the LVWD (702-258-3227) 48 hours prior to the requested removal time to allow the District to take the final meter reading. After the final reading the Contractor may then begin removal procedures for the affected service as follows: Existing service laterals that are to be abandoned from the existing water main shall have the corporation stops turned off of the main, a minimum of twelve (12) inches of the lateral cut out near the corporation stops and a cross cap installed on the corporation stop. If the corporation stop is damaged beyond repair or cannot be removed, the main shall be repaired at the Contractor's expense. In a manner approved by the District, the Contractor shall remove the existing service meter box and appurtenances, fill and grade any and all existing voids, and replace or restore to original conditions or better, all landscaping, irrigation systems, concrete, sidewalks, asphalt or any other items damaged or removed during the removal of the existing service meter box.

END OF REV. 09/10/09

CONSTRUCTION NOTES

- SAWCUT, TRENCH AND PAVEMENT RESTORATION PER UDACS PLATE NO. 17, CCAUSD #500.3, #500.4, AND #500.5.
- WATER MAIN JOINT DEFLECTION (PVC, 8"-24")
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.
- FOR ALL DRY AND UTILITY CROSSINGS, MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING. MAINTAIN A MINIMUM 3" PARALLEL SEPARATION.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
- ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

FAST

Call before you Dig

1-702-432-5300

Freeway & Arterial System of Transportation

Call before you Dig

Overhead

1-702-227-2929

Call before you Dig

Underground

1-800-227-2600

DATE: 10/18/2016

PM: J. PEARCE

DRAWN BY: D.L.

DESIGNED BY: D.L.

CHECKED BY: D.L.

DATE: 11/1/16

NO. DESCRIPTION

1" = 40'

Triton Engineering

Office: (702) 254-1480

6757 W. Charleston Blvd.

Suite B

Las Vegas, Nevada 89146

www.tritoneng.com

DR. HORTON

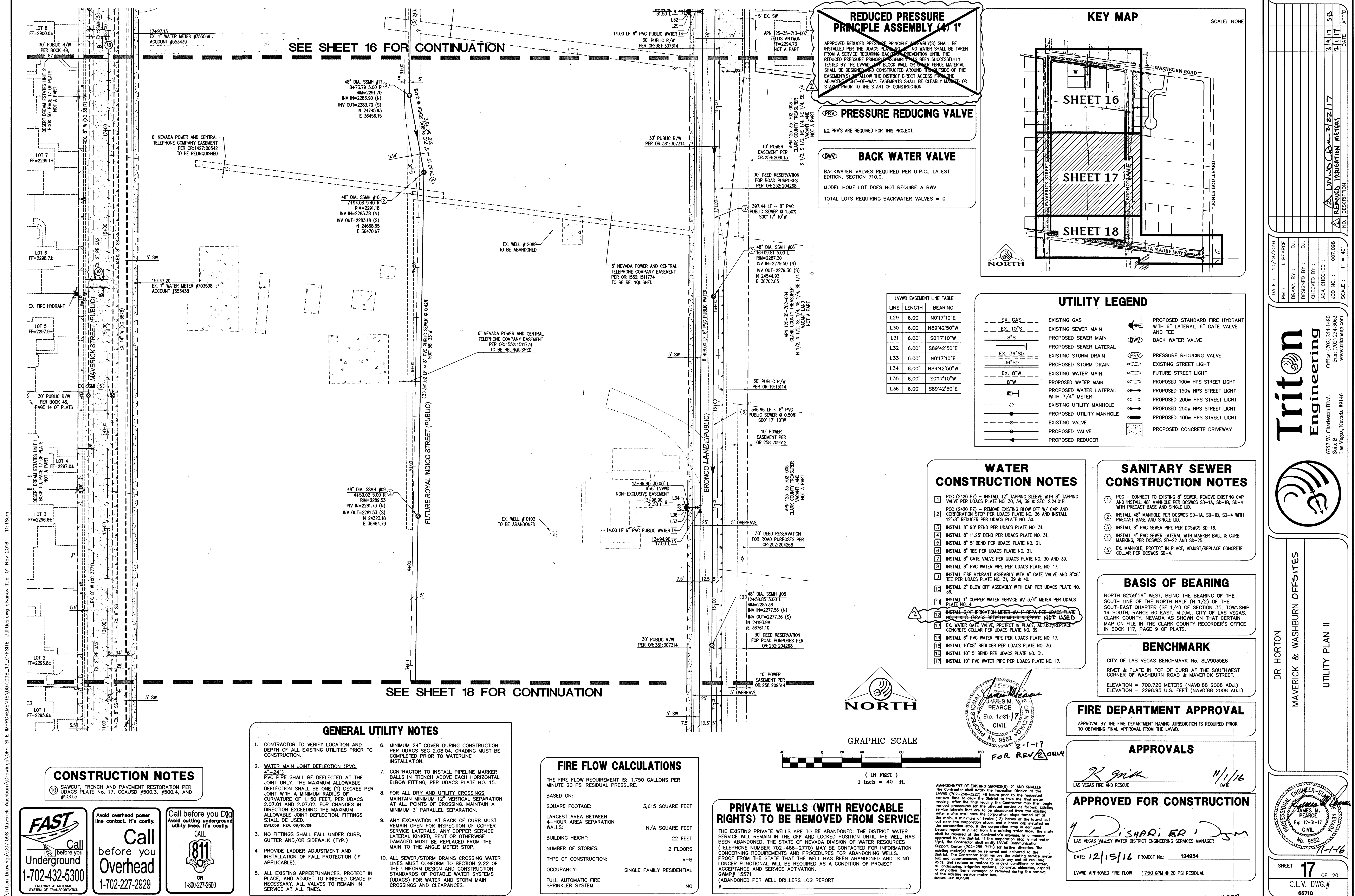
MAVERICK & WASHBURN OFFSITES

UTILITY PLAN 1

SHEET 16 OF 20

C.L.V. DWG.# 66710

PROJ# 124954 AGR116078 QS:125-35-SE XC:11232



SEE SHEET 16 FOR CONTINUATION

SEE SHEET 18 FOR CONTINUATION

REDUCED PRESSURE PRINCIPLE ASSEMBLY (4" 1")

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLANS. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

PRV PRESSURE REDUCING VALVE

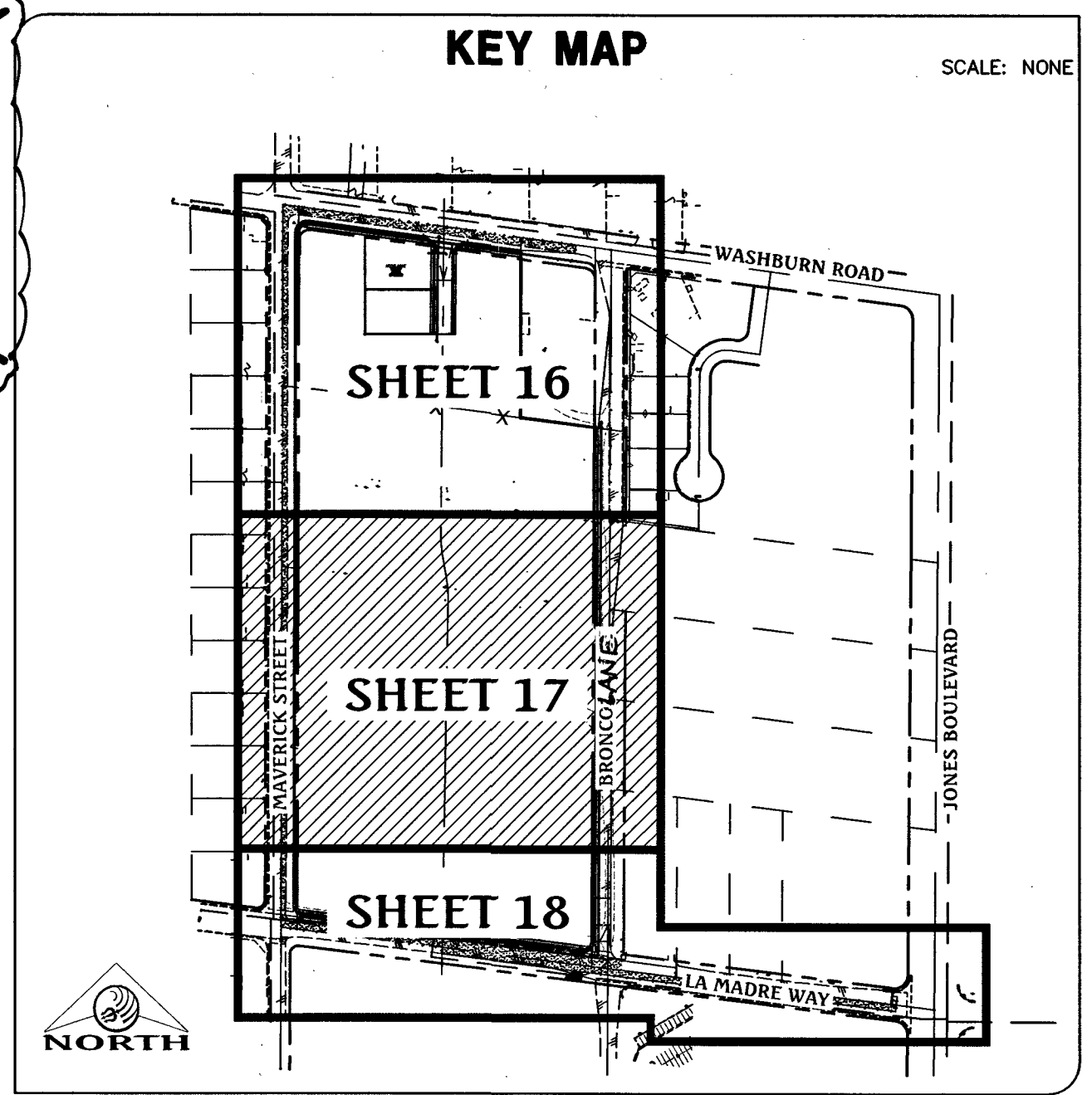
NO PRV'S ARE REQUIRED FOR THIS PROJECT.

BACK WATER VALVE

BACKWATER VALVES REQUIRED PER U.P.C., LATEST EDITION, SECTION 710.0.

MODEL HOME LOT DOES NOT REQUIRE A BWV

TOTAL LOTS REQUIRING BACKWATER VALVES = 0



LVWD EASEMENT LINE TABLE

LINE	LENGTH	BEARING
L29	6.00'	N01°17'10"E
L30	6.00'	N89°42'50"W
L31	6.00'	S01°17'10"E
L32	6.00'	S89°42'50"E
L33	6.00'	N01°17'10"E
L34	6.00'	N89°42'50"W
L35	6.00'	S01°17'10"E
L36	6.00'	S89°42'50"E

UTILITY LEGEND

EX. GAS	EXISTING GAS	PROPOSED STANDARD FIRE HYDRANT WITH 6" LATERAL, 6" GATE VALVE AND TEE
EX. 10" S	EXISTING SEWER MAIN	BACK WATER VALVE
8" S	PROPOSED SEWER MAIN	PRV PRESSURE REDUCING VALVE
EX. 36" SD	EXISTING STORM DRAIN	EXISTING STREET LIGHT
36" SD	PROPOSED STORM DRAIN	FUTURE STREET LIGHT
EX. 8" W	EXISTING WATER MAIN	PROPOSED 100w HPS STREET LIGHT
8" W	PROPOSED WATER MAIN	PROPOSED 150w HPS STREET LIGHT
3" W	PROPOSED WATER LATERAL WITH 3/4" METER	PROPOSED 200w HPS STREET LIGHT
EX. UTILITY MANHOLE	EXISTING UTILITY MANHOLE	PROPOSED 250w HPS STREET LIGHT
PROPOSED UTILITY MANHOLE	PROPOSED UTILITY MANHOLE	PROPOSED 400w HPS STREET LIGHT
EXISTING VALVE	EXISTING VALVE	PROPOSED CONCRETE DRIVEWAY
PROPOSED VALVE	PROPOSED VALVE	
PROPOSED REDUCER	PROPOSED REDUCER	

- WATER CONSTRUCTION NOTES**
- POC (2420 P2) - INSTALL 12" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE NO. 30, 34, 39 & SEC. 2.24.01B.
 - POC (2420 P2) - REMOVE EXISTING BLOW OFF W/ CAP AND CORROSION STOP PER UDACS PLATE NO. 36 AND INSTALL 12"x8" REDUCER PER UDACS PLATE NO. 30.
 - INSTALL 8" 90° BEND PER UDACS PLATE NO. 31.
 - INSTALL 8" 11.25° BEND PER UDACS PLATE NO. 31.
 - INSTALL 8" 5° BEND PER UDACS PLATE NO. 31.
 - INSTALL 8" TEE PER UDACS PLATE NO. 31.
 - INSTALL 8" GATE VALVE PER UDACS PLATE NO. 30 AND 39.
 - INSTALL 8" PVC WATER PIPE PER UDACS PLATE NO. 17.
 - INSTALL FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE AND 8"x6" TEE PER UDACS PLATE NO. 31, 39 & 40.
 - INSTALL 2" BLOW OFF ASSEMBLY WITH CAP PER UDACS PLATE NO. 36.
 - INSTALL 1" COPPER WATER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 4.
 - INSTALL 3/4" IRRIGATION METER W/ 1" BRPA PER UDACS PLATE NO. 1 & 6. (BRASS BETWEEN METER & BRPA NOT USED)
 - EX. WATER GATE VALVE, PROTECT IN PLACE, ADJUST/REPLACE CONCRETE COLLAR PER UDACS PLATE NO. 39.
 - INSTALL 6" PVC WATER PIPE PER UDACS PLATE NO. 17.
 - INSTALL 10"x8" REDUCER PER UDACS PLATE NO. 30.
 - INSTALL 10" 5° BEND PER UDACS PLATE NO. 31.
 - INSTALL 10" PVC WATER PIPE PER UDACS PLATE NO. 17.

- SANITARY SEWER CONSTRUCTION NOTES**
- POC - CONNECT TO EXISTING 8" SEWER, REMOVE EXISTING CAP AND INSTALL 48" MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 WITH PRECAST BASE AND SINGLE LID.
 - INSTALL 48" MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 WITH PRECAST BASE AND SINGLE LID.
 - INSTALL 8" PVC SEWER PIPE PER DCSWCS SD-16.
 - INSTALL 4" PVC SEWER LATERAL WITH MARKER BALL & CURB MARKING, PER DCSWCS SD-22 AND SD-25.
 - EX. MANHOLE, PROTECT IN PLACE, ADJUST/REPLACE CONCRETE COLLAR PER DCSWCS SD-4.

BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NO. 8LV903566

RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.

ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)

ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

APPROVALS

LAS VEGAS FIRE AND RESCUE 11/1/16

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 12/15/16 PROJECT NO.: 124954

LVWD APPROVED FIRE FLOW 1750 GPM @ 20 PSI RESIDUAL

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 1,750 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	3,615 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQUARE FEET
BUILDING HEIGHT:	22 FEET
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO

PRIVATE WELLS (WITH REVOCABLE RIGHTS) TO BE REMOVED FROM SERVICE

THE EXISTING PRIVATE WELLS ARE TO BE ABANDONED. THE DISTRICT WATER SERVICE WILL REMAIN IN THE OFF AND LOOKED POSITION UNTIL THE WELL HAS BEEN ABANDONED. THE STATE OF NEVADA DIVISION OF WATER RESOURCES (TELEPHONE NUMBER 702-486-2770) MAY BE CONTACTED FOR INFORMATION CONCERNING REQUIREMENTS AND PROCEDURES FOR ABANDONING WELLS.

PROOF FROM THE STATE THAT THE WELL HAS BEEN ABANDONED AND IS NO LONGER FUNCTIONAL WILL BE REQUIRED AS A CONDITION OF PROJECT ACCEPTANCE AND SERVICE ACTIVATION.

GWMP # 15571

(ABANDONED PER WELL DRILLERS LOG REPORT)

- GENERAL UTILITY NOTES**
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - WATER MAIN JOINT DEFLECTION (PVC 4" - 24") PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED. ESN-059 REV. 09/10/09
 - NO FITTINGS SHALL FALL UNDER CURB, GUTTER AND/OR SIDEWALK (TYP.).
 - PROVIDE LADDER ADJUSTMENT AND INSTALLATION OF FALL PROTECTION (IF APPLICABLE).
 - ALL EXISTING APPURTENANCES, PROTECT IN PLACE, AND ADJUST TO FINISHED GRADE IF NECESSARY. ALL VALVES TO REMAIN IN SERVICE AT ALL TIMES.
 - MINIMUM 24" COVER DURING CONSTRUCTION PER UDACS SEC 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
 - CONTRACTOR TO INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.
 - FOR ALL DRY AND UTILITY CROSSINGS MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING. MAINTAIN A MINIMUM 3" PARALLEL SEPARATION.
 - ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL, KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
 - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

CONSTRUCTION NOTES

10 SAWCUT, TRENCH AND PAVEMENT RESTORATION PER UDACS PLATE NO. 17, CCAUSD #500.3, #500.4, AND #500.5.

FAST

Call before you Dig

Underground 1-702-432-5300

Freeway & Arterial System of Transportation

Call before you Dig

Overhead 1-702-227-2929

Call before you Dig

Utility lines. It's costly.

811

OR

1-800-227-2600

DATE: 10/18/2016

PM: J. PEARCE

DRAWN BY: D.L.

DESIGNED BY: D.L.

CHECKED BY: D.L.

ADJ. CHECKED: 007,098

JOB NO.: 124954

SCALE: 1" = 40'

Triton Engineering

Office: (702) 254-1480

Fax: (702) 254-3062

6757 W. Charleston Blvd. Suite B Las Vegas, Nevada 89146

www.tritoneng.com

DR. HORTON

MAVERICK & WASHBURN OFFSITES

UTILITY PLAN II

PROFESSIONAL ENGINEER - STATE OF NEVADA

JAMES M. PEARCE

Exp. 12-31-17

CIVIL

No. 9552

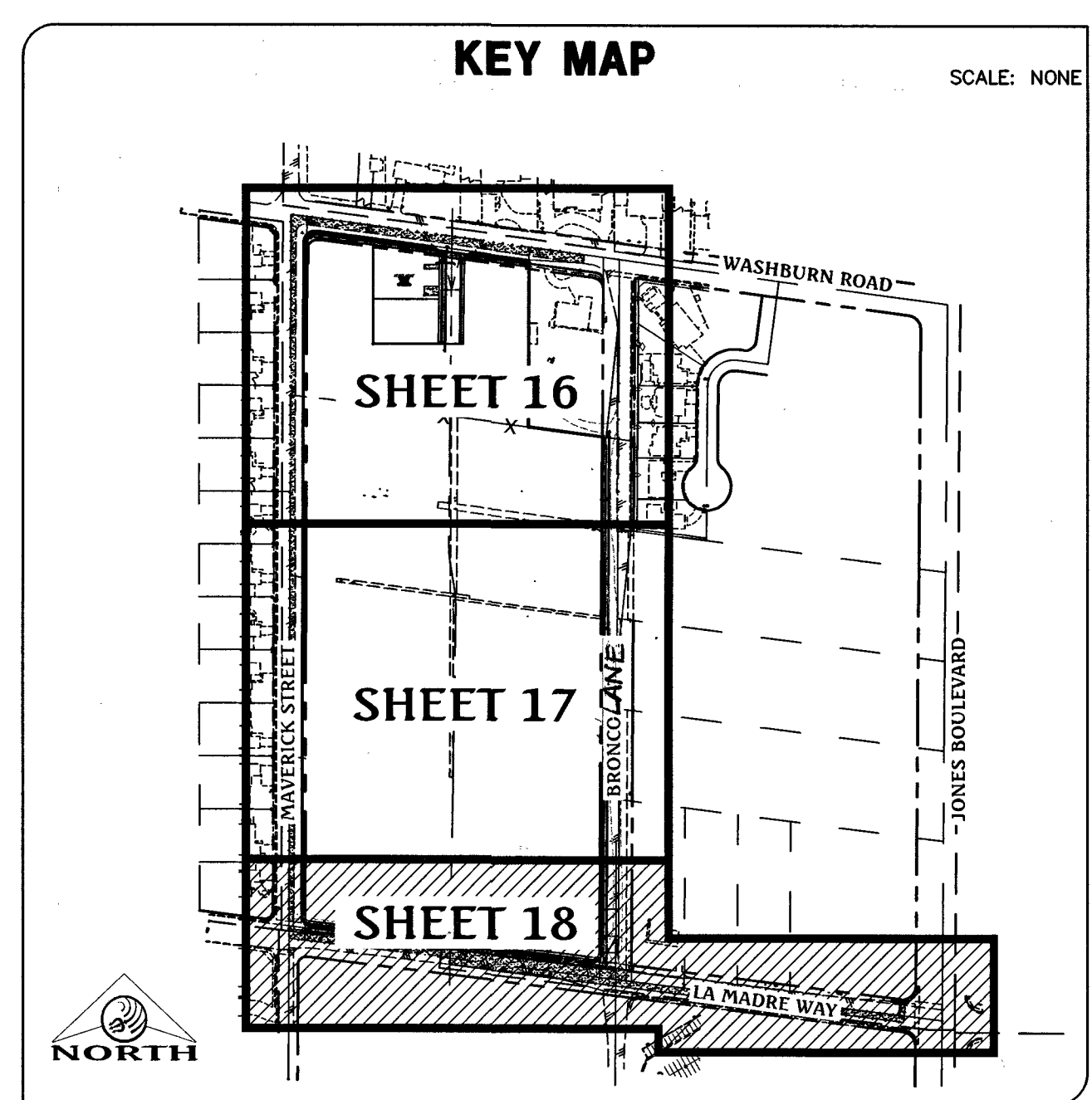
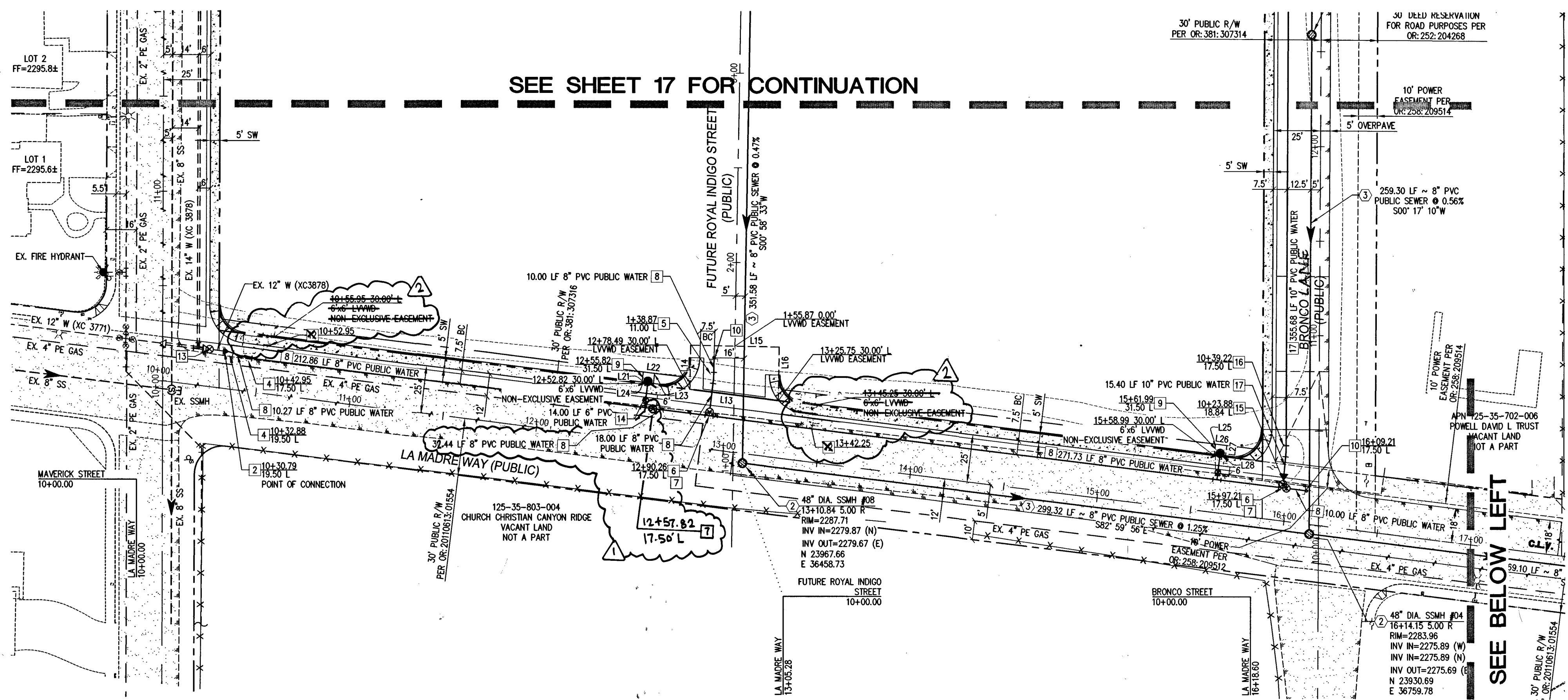
11-1-16

SHEET 17 OF 20

C.L.V. DWG.# 66710

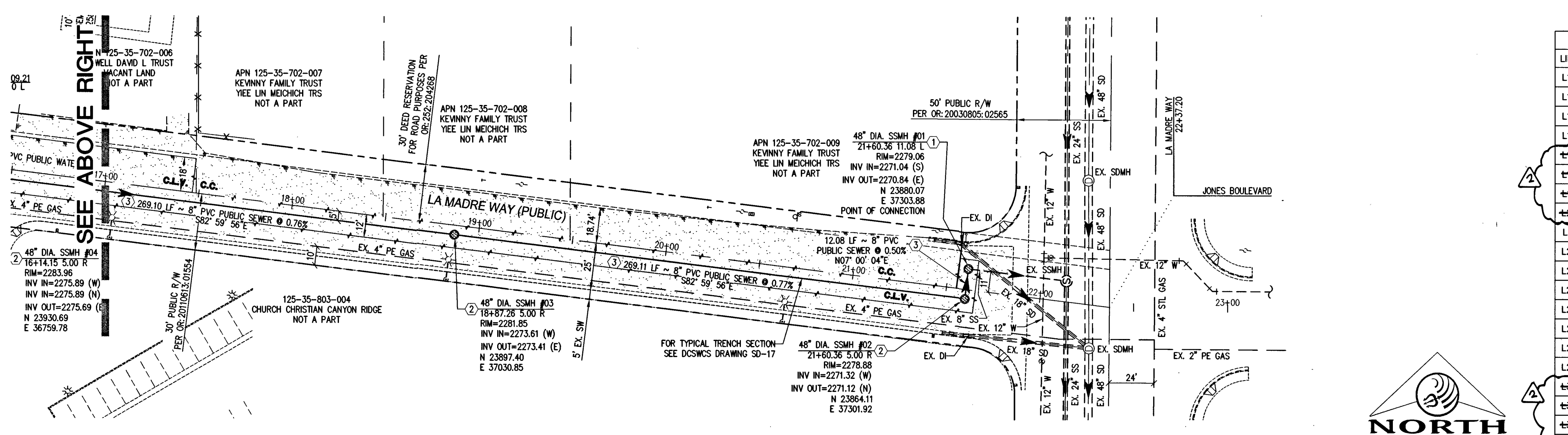
107V6157

AGR-116078 QS:25-35-SE XC:1722



UTILITY LEGEND

EX. GAS	EXISTING GAS	PROPOSED STANDARD FIRE HYDRANT WITH 6" LATERAL, 6" GATE VALVE AND TEE
EX. 10" S	EXISTING SEWER MAIN	BACK WATER VALVE
8" S	PROPOSED SEWER MAIN	
EX. 36" SD	EXISTING STORM DRAIN	
36" SD	PROPOSED STORM DRAIN	
EX. 8" W	EXISTING WATER MAIN	
8" W	PROPOSED WATER MAIN	
EX. 4" PE GAS	EXISTING UTILITY MANHOLE	
4" PE GAS	PROPOSED UTILITY MANHOLE	
EX. VALVE	EXISTING VALVE	
PROPOSED VALVE	PROPOSED VALVE	
PROPOSED REDUCER	PROPOSED REDUCER	
		PROPOSED CONCRETE DRIVEWAY



LVWD EASEMENT LINE TABLE

LINE	LENGTH	BEARING
L13	47.26'	N82°59'56"W
L14	23.22'	N0°58'33"E
L15	47.00'	S89°01'27"E
L16	28.18'	S0°58'33"W
L17	0.00'	N82°59'56"W
L18	0.00'	N7°00'04"E
L19	0.00'	S82°59'56"E
L20	0.00'	S7°00'04"W
L21	6.00'	S7°00'04"W
L22	6.00'	N82°59'56"W
L23	6.00'	N7°00'04"E
L24	6.00'	S82°59'56"E
L25	6.00'	S7°00'04"W
L26	6.00'	N82°59'56"W
L27	6.00'	N7°00'04"E
L28	6.00'	S82°59'56"E
L29	0.00'	S7°00'04"W
L30	0.00'	N82°59'56"W
L31	0.00'	N7°00'04"E
L32	0.00'	S82°59'56"E

- ### WATER CONSTRUCTION NOTES
- POC (2420 P2) - INSTALL 12" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE NO. 34, 38 & SEC. 2.24.01B.
 - POC (2420 P2) - REMOVE EXISTING BLOW OFF W/ CAP AND CORPORATION STOP PER UDACS PLATE NO. 36 AND INSTALL 12"x8" REDUCER PER UDACS PLATE NO. 30.
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 - INSTALL FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE AND 8"x6" TEE PER UDACS PLATE NO. 31, 39 & 40.
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- ### SANITARY SEWER CONSTRUCTION NOTES
- POC - CONNECT TO EXISTING 8" SEWER, REMOVE EXISTING CAP AND INSTALL 48" MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 WITH PRECAST BASE AND SINGLE LID.
 - INSTALL 48" MANHOLE PER DCSWCS SD-1A, SD-1B, SD-4 WITH PRECAST BASE AND SINGLE LID.
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 - INSTALL 4" PVC SEWER LATERAL WITH MARKER BALL & CURB MARKING, PER DCSWCS SD-22 AND SD-25.
 - EX. MANHOLE, PROTECT IN PLACE, ADJUST/REPLACE CONCRETE COLLAR PER DCSWCS SD-4.

BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 35, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. BLV90356
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD88 2008 ADJ.)
ELEVATION = 2296.95 U.S. FEET (NAVD88 2008 ADJ.)

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVWD.

APPROVALS

DATE: 11/1/16
LAS VEGAS FIRE AND RESCUE

APPROVED FOR CONSTRUCTION

DATE: 12/15/16 PROJECT No.: 124954
LVWD APPROVED FIRE FLOW 1750 GPM @ 20 PSI RESIDUAL

Call before you Dig
1-702-432-5300

Avoid overhead power line contact. It's costly.

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

Call before you Dig
1-800-227-2600

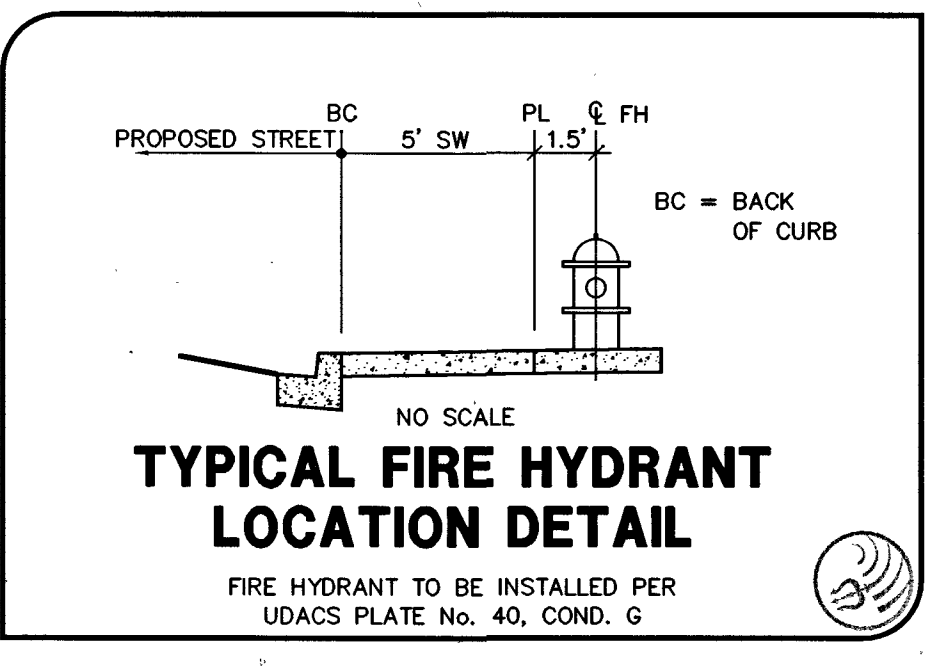
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ESL 0509 REV. 06/10/09
 - NO FITTINGS SHALL FALL UNDER CURB, GUTTER AND/OR SIDEWALK (TYP.)
 - PROVIDE LADDER ADJUSTMENT AND INSTALLATION OF FALL PROTECTION (IF APPLICABLE).
 - ALL EXISTING APPURTENANCES, PROTECT IN PLACE, AND ADJUST TO FINISHED GRADE IF NECESSARY. ALL VALVES TO REMAIN IN SERVICE AT ALL TIMES.
 - MINIMUM 24" COVER DURING CONSTRUCTION PER UDACS SEC. 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
 - CONTRACTOR TO INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15.
 - FOR ALL DRY AND UTILITY CROSSINGS, MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING. MAINTAIN A MINIMUM 3' PARALLEL SEPARATION.
 - ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
 - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 1,750 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	3,615 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQUARE FEET
BUILDING HEIGHT:	22 FEET
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO



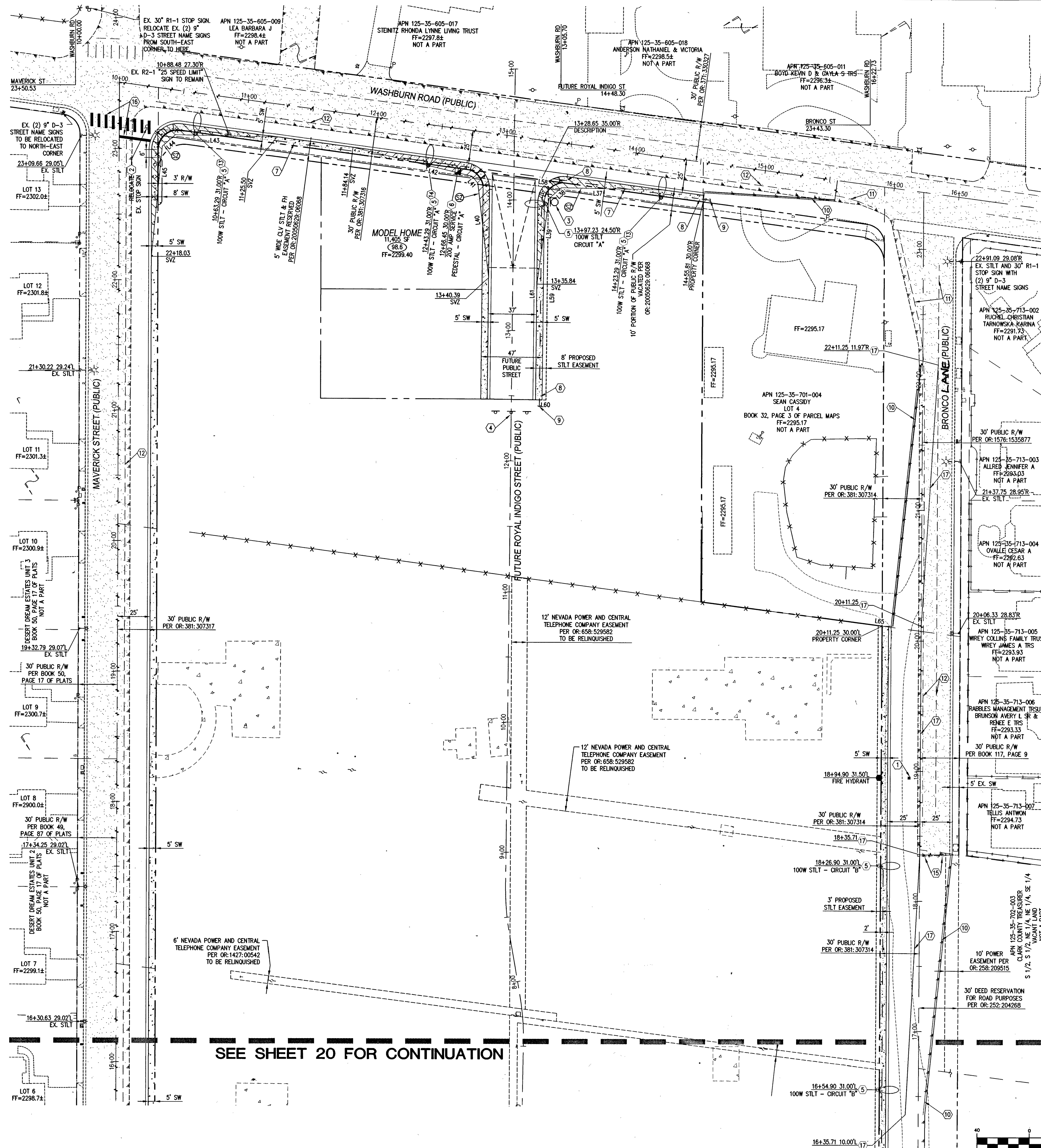
DATE: 10/18/2016
DRAWN BY: J. PEARCE
DESIGNED BY: D.I.
CHECKED BY: D.I.
ADA CHECKED: 007.098
JOB NO.: 124954
SCALE: 1" = 40'

Triton Engineering
Office: (702) 254-1480
6757 W. Charleston Blvd.
Suite B
Las Vegas, Nevada 89146
www.tritoneng.com

DR HORTON
MAVERICK & WASHBURN OFFSITES
UTILITY PLAN III

PROFESSIONAL ENGINEER
JAMES M. PEARCE
Exp. 12-31-17
No. 9552

SHEET 18 OF 20
C.L.V. DWG # 66710

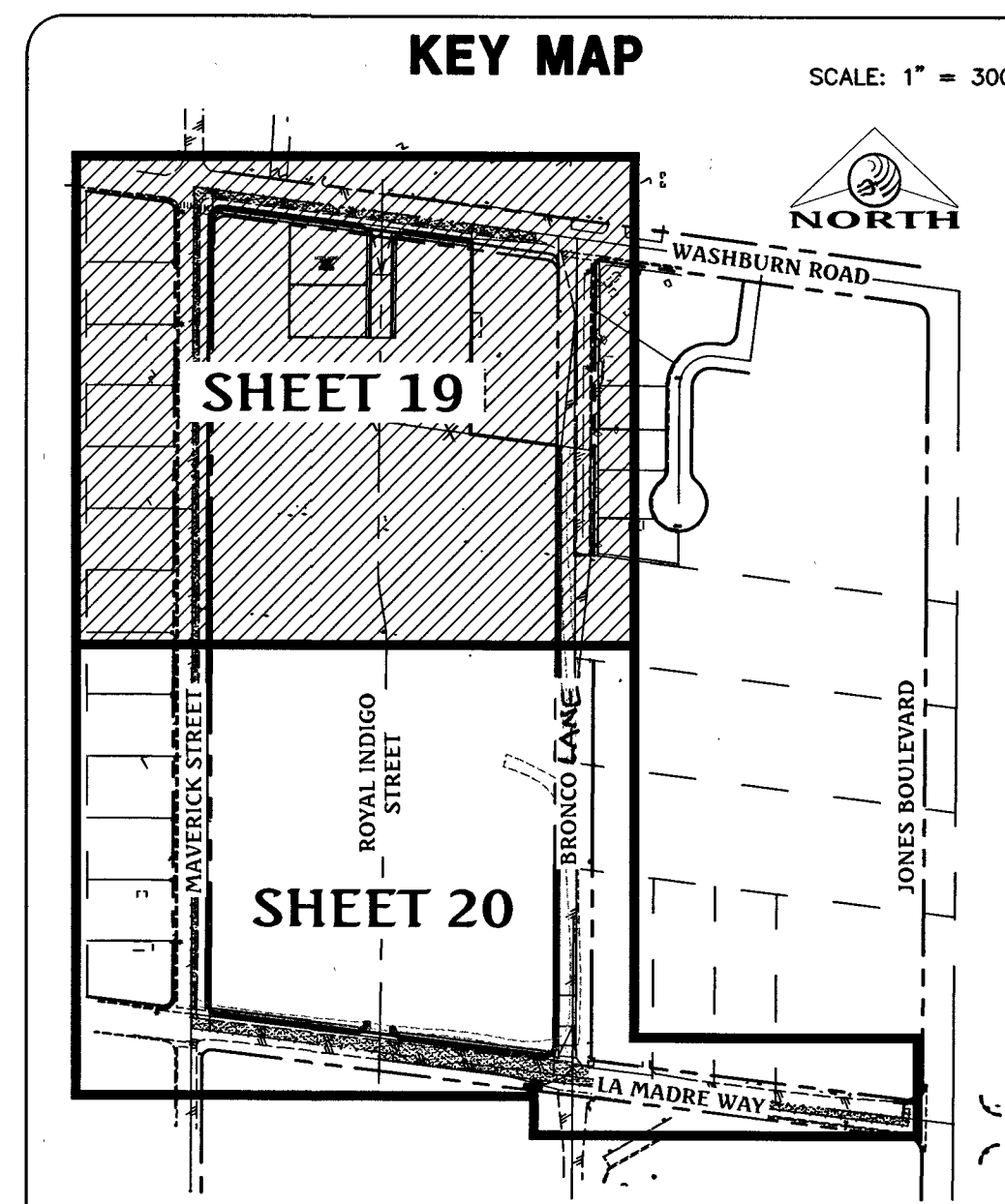


SEE SHEET 20 FOR CONTINUATION

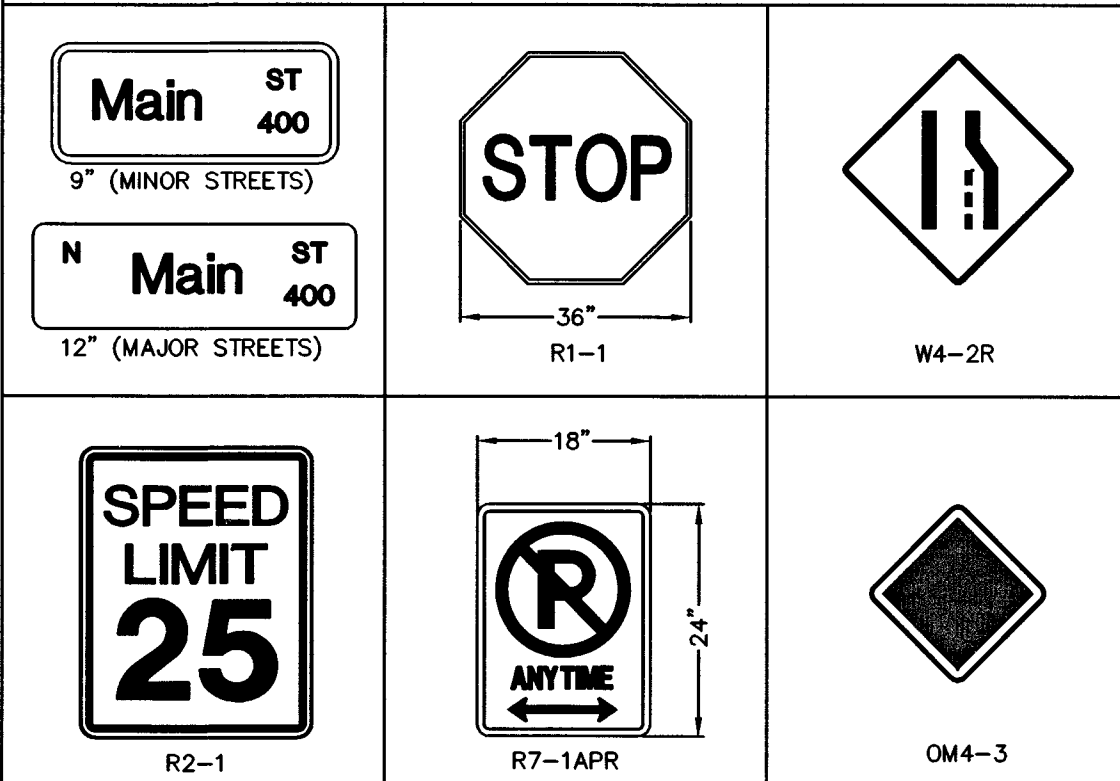
Call before you Dig
Avoid cutting underground
utility lines. It's costly.
CALL
811
OR
1-800-227-2600

FAST
Call before you
Underground
1-702-432-5300
FREIGHT & ARTERIAL
SYSTEM OF TRANSPORTATION

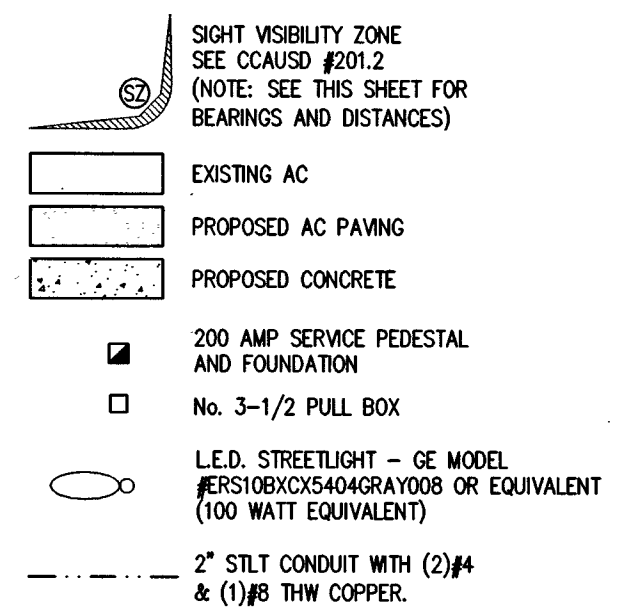
Avoid overhead power
line contact. It's costly.
Call before you
Overhead
1-702-227-2929



TRAFFIC SIGN GRAPHICAL DEPICTION



LEGEND



SVZ NOTE

FROM USD 201.2, NOTE #2:
NO WALLS, FENCES, SHRUBS, UTILITY
APURTANCES OR ANY OTHER OBJECT, OTHER
THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS,
TREES, AND STREET LIGHT POLES, MAY BE
CONSTRUCTED OR INSTALLED WITHIN THE SIGHT
VISIBILITY ZONE UNLESS SAID OBJECT IS
MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT,
MEASURED FROM TOP OF CURB, OR WHERE NO
CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED
FROM THE TOP OF ADJACENT ASPHALT, GRAVEL
OR PAVEMENT STREET SURFACE. THIS RESTRICTION
EXTENDS ALONG THE SIGHT VISIBILITY LINE
THROUGH LANDSCAPE MEDIANS.

BASIS OF BEARING

NORTH 82°59'56" WEST, BEING THE BEARING OF THE
SOUTH LINE OF THE NORTH HALF (N 1/2) OF THE
SOUTHEAST QUARTER (SE 1/4) OF SECTION 35,
TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY
OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN
ON THAT CERTAIN MAP ON FILE IN THE CLARK
COUNTY RECORDER'S OFFICE IN BOOK 117, PAGE 9
OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV903566
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST
CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008
ADJ.)

TRAFFIC QUANTITIES

1. BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER	4 EA
2. 36" R1-1 STOP SIGN	2 EA
3. 9" D-3 STREET NAME SIGNS	4 EA
4. R7-1A "NO PARKING ANY TIME" SIGNS	4 EA
5. W4-4P "CROSS TRAFFIC DOES NOT STOP" SIGNS	1 EA
6. W4-2R LANE ENDS SIGN	1 EA
7. OM4-3 OBJECT MARKER SIGNS	6 EA
8. L.E.D. STREETLIGHT, FOUNDATION, POLE AND MAST ARM (100 WATT EQUIVALENT)	13 EA
9. 200 AMP SERVICE PESTAL & FOUNDATION	2 EA
10. 1 1/4" STLT CONDUIT WITH (2) #4 & (1) #8 THW COPPER CONDUCTORS	2,023 LF
11. No. 3 1/2 CONCRETE PULLBOX WITH METAL COVER	5 EA
12. 6" WIDE WHITE PAINTED LINE	502 LF
13. 4" WIDE YELLOW PAINTED LINE	576 LF
14. 2" WIDE WHITE STOP BAR	24 LF
15. 2" WIDE X 10' LONG WHITE CROSS WALK PANELS	9 EA

NOTE TO CONTRACTOR:
QUANTITIES SHOWN ARE APPROXIMATIONS ONLY AND ARE
INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR
SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT
QUANTITIES INVOLVED.

DATE: 10/18/2016

PM: J. PEARCE

DRAWN BY: D.I.

DESIGNED BY: D.I.

CHECKED BY: D.I.

ADA CHECKED: 007,098

JOB NO.: 007,098

SCALE: 1" = 40'

NO. DESCRIPTION

DATE

APPROVED

DR HORTON

MAVERICK & WASHBURN OFFSITES

TRAFFIC PLAN 1

PROFESSIONAL ENGINEER

JAMES M. PEARCE

Exp. 12-31-17

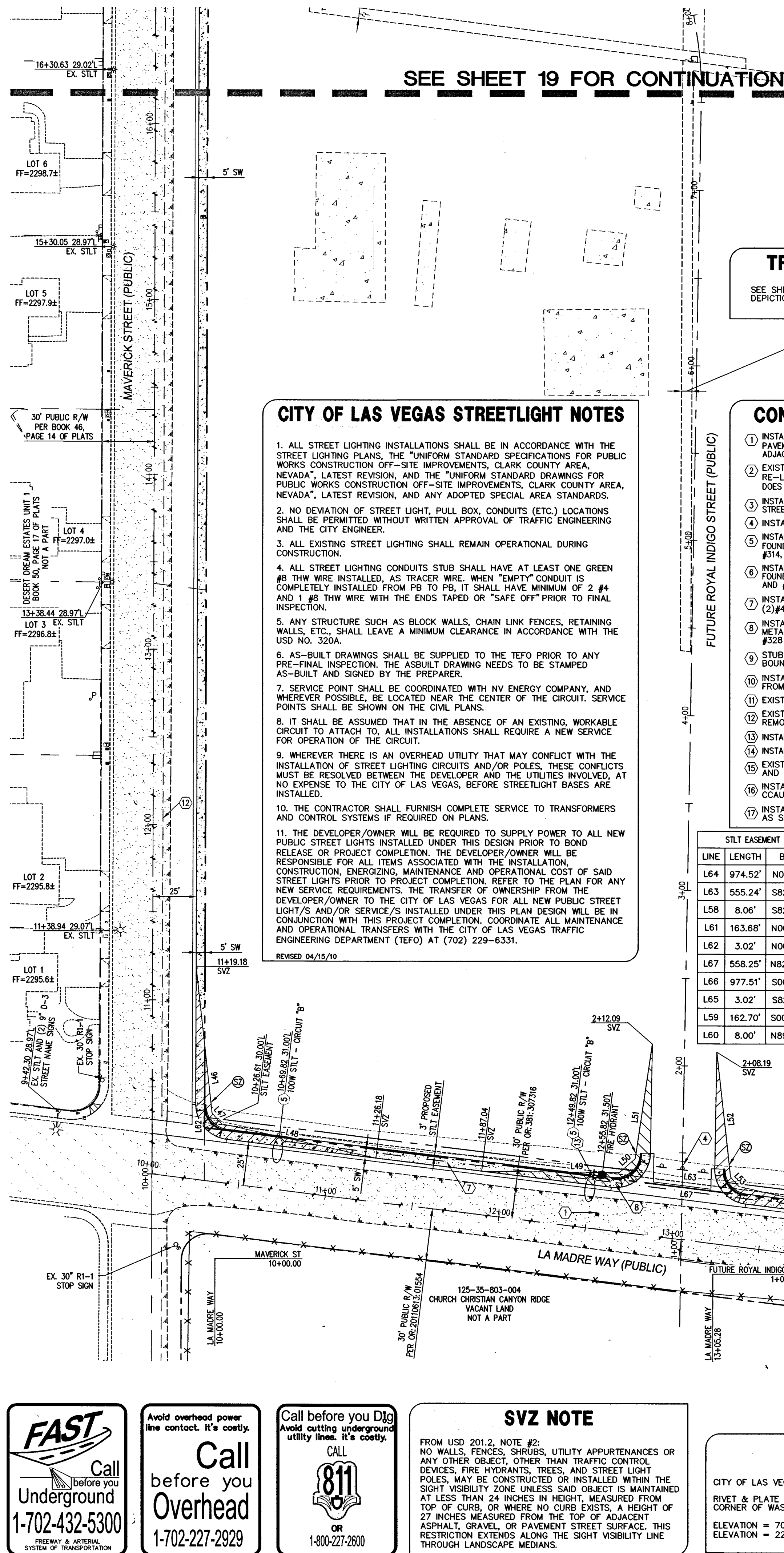
CIVIL

No. 9552

11-1-16

SHEET 19 OF 20

C.L.V. DWG.# 66710



TRAFFIC SIGN NOTE

SEE SHEET 19 FOR TRAFFIC SIGN GRAPHICAL DEPICTION.
6" NEVADA POWER AND CENTRAL TELEPHONE COMPANY EASEMENT PER OR:1552-1511774 TO BE RELINQUISHED

CONSTRUCTION NOTES

1. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER 18" FROM CURB FACE ADJACENT TO THE HYDRANT
2. EXISTING R1-1 STOP SIGN TO BE RE-LOCATED. INSTALL W4-4P "CROSS TRAFFIC DOES NOT STOP" SIGN.
3. INSTALL 30" R1-1 STOP SIGN AND (2) 9" D-3 STREET NAME SIGNS.
4. INSTALL OM4-3 SIGN, 3 EQUALLY SPACED.
5. INSTALL PUBLIC L.E.D. STREETLIGHT AND FOUNDATION (100 WATT EQUIVALENT), PER CCAUSD #314, #320 AND #321.
6. INSTALL PUBLIC 200 AMP SERVICE PEDESTAL & FOUNDATION, PER CCAUSD #500, #531, #532.52 AND #535.52.
7. INSTALL PUBLIC 1 1/4" STLT CONDUIT WITH (2) #4 & (1) #8 THW COPPER CONDUCTORS.
8. INSTALL NO. 3 1/2 CONCRETE PULLBOX WITH METAL COVER PER CCAUSD #326, #327 & #328.
9. STUB AND CAP CONDUIT 5' BEYOND BOUNDARY.
10. INSTALL 6" WIDE WHITE PAINTED LINE, 1' FROM EDGE OF PAVEMENT
11. EXISTING STRIPING AND MARKINGS TO REMAIN
12. EXISTING STRIPING OR MARKING TO BE REMOVED OR OBLITERATED AS SHOWN
13. INSTALL R7-1APR SIGN, "NO PARKING ANY TIME".
14. INSTALL W4-2R LANE ENDS SIGN.
15. EXISTING SIGN OR BARRICADE TO BE REMOVED AND RETURNED TO CLV.
16. INSTALL CROSSWALK & STOP BAR PER CCAUSD #254.
17. INSTALL 4" WIDE YELLOW PAINTED SOLID LINE AS SHOWN

LINE	LENGTH	BEARING
L64	974.52'	N00°17'10"E
L63	555.24'	S82°59'56"E
L58	8.06'	S82°22'26"E
L61	163.68'	N00°36'42"E
L62	3.02'	N00°08'50"E
L67	558.25'	N82°59'56"W
L66	977.51'	S00°17'10"W
L65	3.02'	S82°31'45"E
L59	162.70'	S00°36'42"W
L60	8.00'	N89°23'18"W

SVZ DIMENSION	LINE	LENGTH	BEARING
A=104' B=10' C=11' D=97'	L46	84.68'	N61°13'30"W
	L47	8.05'	N41°25'33"W
	L48	90.62'	N77°36'25"W
	L49	78.83'	N89°30'36"W
	L50	12.14'	S48°59'18"W
	L51	66.59'	S82°43'33"W
	L52	72.11'	N61°53'38"W
	L53	7.25'	N41°00'42"W
	L54	93.48'	N77°10'11"W
	L55	78.48'	N89°30'37"W
	L56	13.00'	S48°38'37"W
	L57	84.69'	S54°48'09"W

SVZ NOTE

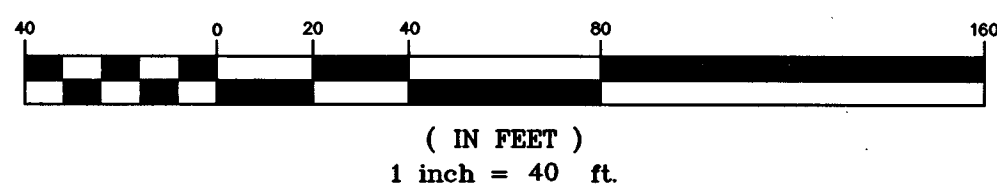
FROM USD 2012, NOTE #2:
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 8LV903566
RIVET & PLATE IN TOP OF CURB AT THE SOUTHWEST CORNER OF WASHBURN ROAD & MAVERICK STREET.
ELEVATION = 700.720 METERS (NAVD'88 2008 ADJ.)
ELEVATION = 2298.95 U.S. FEET (NAVD'88 2008 ADJ.)



GRAPHIC SCALE



LEGEND

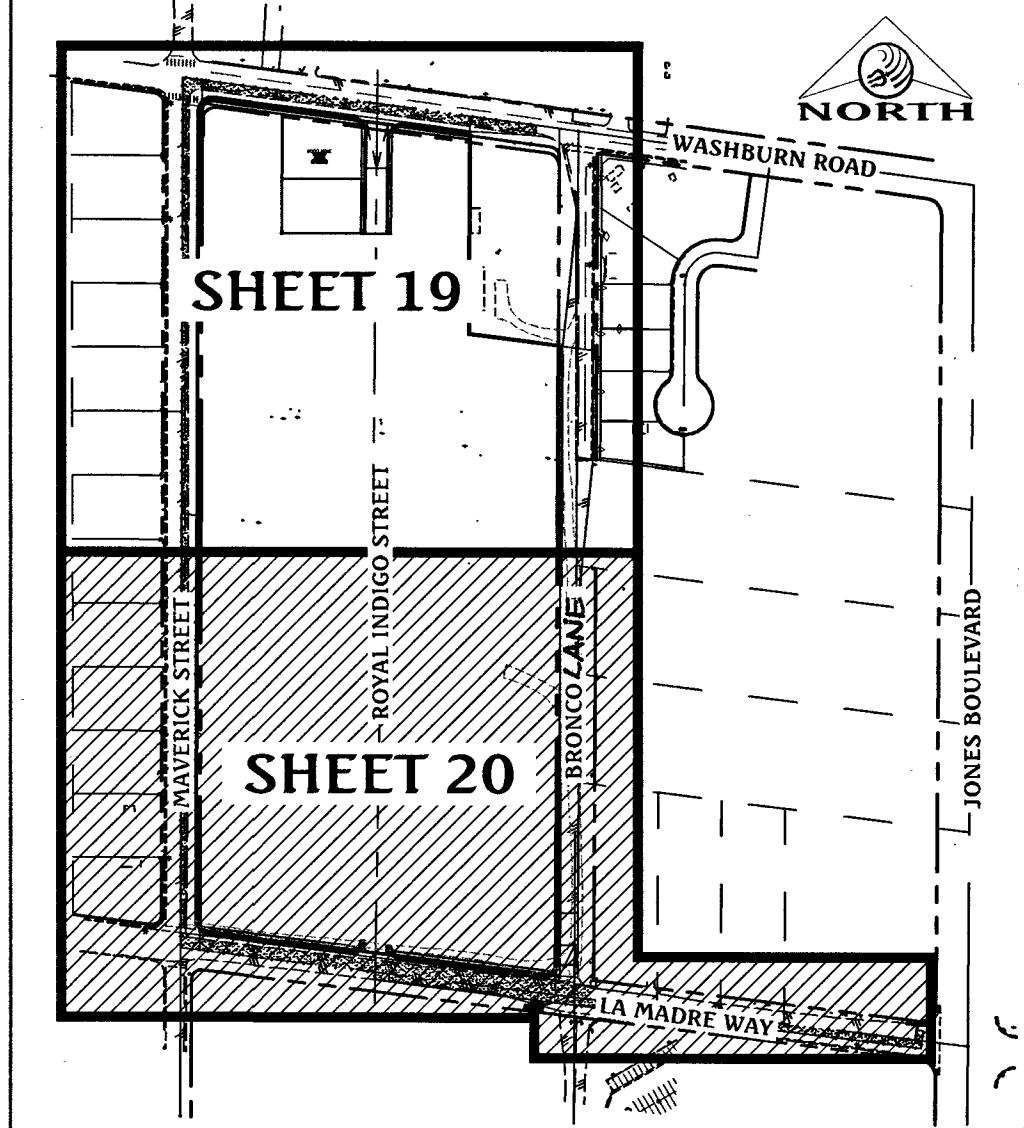
- SIGHT VISIBILITY ZONE SEE CCAUSD #201.2 (NOTE: SEE THIS SHEET FOR BEARINGS AND DISTANCES)
- EXISTING AC
- PROPOSED AC PAVING
- PROPOSED CONCRETE
- 200 AMP SERVICE PEDESTAL AND FOUNDATION
- No. 3-1/2 PULL BOX
- L.E.D. STREETLIGHT - GE MODEL #ERS108XCS404GRAY008 OR EQUIVALENT (100 WATT EQUIVALENT)
- 2" STLT CONDUIT WITH (2) #4 & (1) #8 THW COPPER

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADE, 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 ENVOUCHMENTS 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 "SAFE ROUTE TO SCHOOL" IS ENVOUCHED 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 BE FABRICATED WITH DIAMOND GRADE, V.P. GLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. 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 MSA WORKER TO BE RESPONSIBLE FOR 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 CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERFERES 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 OTHERWISE 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 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 04/15/10

KEY MAP



STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A"	
IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECTS STREETLIGHTS? (CIRCLE)	YES
CONTACT CITY OF LAS VEGAS TRAFFIC ENGINEERING DIVISION AT 702-229-6327 TO PERFORM CIRCUIT CAPACITY VERIFICATION.	NO
INSTALL A NEW SERVICE PEDESTAL.	

SERVICE PEDISTAL LOCATION: WASHBURN ROAD - 12+66.45					
CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE):					
DATE OF CAPACITY VERIFICATION		-			
ENGINEER OF OFFSITE PLANS:					
PERSON WHO DID THE CALCULATIONS:		D. IVANOV			
CONSULTING ENGINEERING FIRM:		TRITON ENGINEERING			
CAPACITY CALCULATIONS					
1	CIRCUIT CAPACITY		60	AMPS	
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48	AMPS	
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		0	AMPS	
4	AVAILABLE (2 MINUS 3)		48	AMPS	
PROPOSED LUMINAIRE LOAD TO CIRCUIT					
5	4	NUMBER OF 100W STLTs @ 1.0 AMPS/EA	4	AMPS	
6	0	NUMBER OF 250W STLTs @ 1.5 AMPS/EA	0	AMPS	
7	TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)			4	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)			44	AMPS	

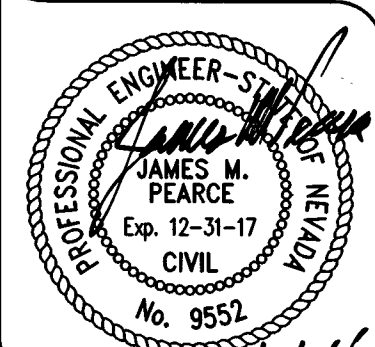
STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "B"	
IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECTS STREETLIGHTS? (CIRCLE)	YES
CONTACT CITY OF LAS VEGAS TRAFFIC ENGINEERING DIVISION AT 702-229-6327 TO PERFORM CIRCUIT CAPACITY VERIFICATION.	NO
INSTALL A NEW SERVICE PEDESTAL.	

SERVICE PEDISTAL LOCATION: LA MADRE WAY - 15+35.99				
CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE):				
DATE OF CAPACITY VERIFICATION -				
ENGINEER OF OFFSITE PLANS:				
PERSON WHO DID THE CALCULATIONS: D. IVANOV				
CONSULTING ENGINEERING FIRM: TRITON ENGINEERING				
CAPACITY CALCULATIONS				
1	CIRCUIT CAPACITY		60	AMPS
2	MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48	AMPS
3	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		0	AMPS
4	AVAILABLE (2 MINUS 3)		48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT				
5	9	NUMBER OF 100W STILTS @ 1.0 AMPS/EA	9	AMPS
6	0	NUMBER OF 250W STILTS @ 1.5 AMPS/EA	0	AMPS
7	TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)		9	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)			39	AMPS

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SHEET 20 OF 20
C.L.V. DWG.# 66710