

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND ANY ADAPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUD SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED AS TRACER WIRE. WHEN "STUB" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-FINAL INSPECTION. THE ASBUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEF0) AT (702) 228-6331.

REVISED 04/15/10

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

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 DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS FOR THE CITY OF LAS VEGAS", LATEST EDITION; AND THE APPROPRIATE 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 ARE SHOWN FROM THE AVAILABLE RECORDS. EXISTING UTILITIES ARE NOT SHOWN FOR THE PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE RECORDS. EXISTING UTILITIES SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE HIS OWN OPINION, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE ALL OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS 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 CONSTRUCTION. THE EXISTENCE OF THE TRANSITION SHALL 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.

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 ADVISING DEPARTMENT PRIOR TO THE CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCING SIGNS FIRST. ONCE THE NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED 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 VIB CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1150 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 THE 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 INSTALLED TO THE RIGHT OF THE STANDARD.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO ANY 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 SIGN TECHNICIAN AND A TRAFFIC CONTROL ZONE SAFETY SPECIALIST SET UP AND 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 OBTAINING NECESSARY AREA TRANSITS (A.T.) IN THE

CLARK COUNTY TRAFFIC NOTES

1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION BEFORE ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS TO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
3. ALL CONSTRUCTION SIGNING, BARRIAGING AND PAVEMENT MARKINGS SHALL CONFORM TO THE CLARK COUNTY TRAFFIC CONTROL HANDBOOK - 1986 AND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
4. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGNPOSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS VI SHEETING.
6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.
7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.
8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A123.
9. ALL STREET LIGHTING INSTALLATIONS EXCEPT NOTED ON THE STREET LIGHTING PLANS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA. LATEST EDITION OF EACH.
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREeway AND AERIAL SYSTEM. FOR INFORMATION, CLARK COUNTY HAS A 48 HOUR CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRAZING 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 MAINTAIN ALL TEMPORARY 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.

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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 "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD 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 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

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NONE.

DESCRIPTION	PUBLIC QUANTITIES
5-INCH ASPHALTIC CONCRETE PAVING	2,287 SY
6-INCH ASPHALTIC CONCRETE PAVING	5,394 SY
TYPE II GRAVEL	3,454 CY
CURB & GUTTER "L" CURB	374 LF
CONCRETE CROSS GUTTER	1,792 SF
4-INCH CONCRETE SIDEWALK	2,976 SF
60-INCH SEWER MANHOLES	1 EA
6-INCH DIP WATER MAIN	38 LF
8-INCH WATER MAIN	150 LF
3/4" WATER METER	1 EA
1-1/2" WATER METER	2 EA
10" COMPACT RPD	2 EA
10" X 8" TEE	2 EA
10" GATE VALVE	1 EA
8" GATE VALVE	2 EA
POWER SERVICE TO LOTS	4 EA
SIDEWALK UNDERDRAIN	2 EA
PAVEMENT STRIPING ARTERIAL	6,072 LF
TRAFFIC SIGNAL AND/OR BASE	1 EA
TRAFFIC SIGNAL UNDERGROUND	914 LF
TRAFFIC CONTROL DEVICES	8 EA
SURVEY MONUMENTS	1 EA
1" WATER METER	2EA

NOTE: THIS QUANTITY ESTIMATE IS FOR BONDING PURPOSES ONLY. CONTRACTOR TO DETERMINE INDEPENDENT ESTIMATIONS.

THE QUANTITY ESTIMATE SHOWN HERE IS FOR EXAMPLE ONLY. ALL DRAFTERS NEED TO CHECK WITH THEIR PROJECT MANAGER BEFORE USING THIS QUANTITY ESTIMATE. SOME PROJECT MANAGERS MAY LIKE IT AND SOME MAY NOT. IT IS NOT REQUIRED IN CLARK COUNTY TO SHOW A QUANTITY ESTIMATE ON THE NOTE SHEET. IT IS MANDATORY, HOWEVER, TO SHOW A QUANTITY ESTIMATE ON THE NOTE SHEET IN CITY OF LAS VEGAS JURISDICTION. IF AND ONLY IF YOUR PROJECT ENGINEER WANTS THE QUANTITY ESTIMATE TO SHOW, THEN CHANGE IT TO THE APPROPRIATE LAYERS ALREADY DEFINED IN THIS DRAWING.

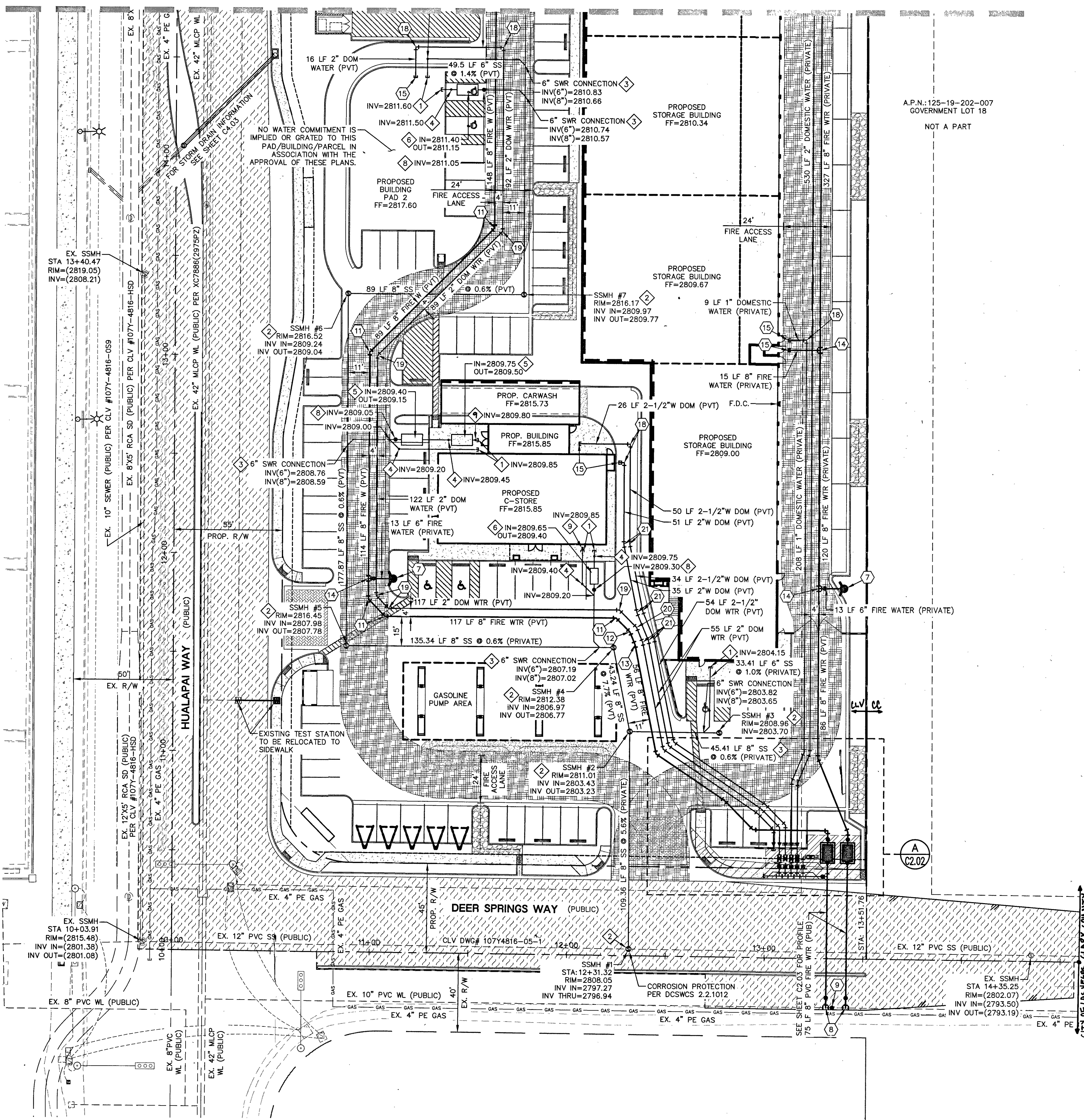
LVVWD PROJECT # 125376

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 COMMUNICATIONS SUPPORT PERSONNEL (258-1177) 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

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE TO SCHEDULE AT (702)455-4610. PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY THE CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF LESS THAN $\frac{1}{8}$ OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION EXCEPT FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES. QPL CAN BE FOUND ONLINE AT [HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX](http://www.clarkcountynv.gov/public-works/pages/default.aspx)
6. PRIVATE STREETS, CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY PUBLIC WORKS INSPECTOR.
8. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL ON URBAN TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS INSPECTIONS @ (702)455-4610.
9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10') FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE SHALL NOT BE CONSIDERED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICHEVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

FOR CONTINUATION SEE SHEET C2.02



SEWER CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET
- STUB & CAP SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
- INSTALL 48" SANITARY SEWER MANHOLE & BASE PER DCSWCS DWG. NO. SD-1A & SD-1B, CONCRETE COLLAR PER SD-4, SINGLE COVER 24"
- INSTALL WYE LATERAL CONNECTION PER DCSWCS DWG. NO. SD-22.
- INSTALL SEWER CLEAN-OUT PER DCSWCS DWG. NO. SD-26.
- INSTALL 1500 GALLON SAND/OIL INTERCEPTOR BY OTHERS
- INSTALL 1500 GALLON GREASE INTERCEPTOR BY OTHERS
- NOT USED
- SAMPLE MANHOLE FOR INTERCEPTOR(S) BY OTHERS
- INSTALL SEWER BACK WATER VALVE.

WATER CONSTRUCTION NOTES:

- ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS)" LATEST EDITION.
- NOT ALL NOTES USED ON THIS SHEET
- INSTALL 10" RPPA PER UDACS PLATE NO. 59.
- INSTALL 3/4" METER PER DETAIL ON SHEET C2.03
- INSTALL 1-1/2" RPPA PER DETAIL ON SHEET C2.03
- INSTALL 1-1/2" METER PER DETAIL ON SHEET C2.03
- INSTALL REDUCER (SAME SIZE AS PIPES)
- INSTALL FIRE HYDRANT W/ GATE VALVE PER UDACS PLATE NO. 40.
- INSTALL SERVICE SADDLE (SAME SIZE AS PIPE) PER DETAIL ON SHEET C2.03
- INSTALL GATE VALVE (SAME SIZE AS PIPE) PER UDACS PLATE NO. 30 AND 39.
- INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
- INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 22.5° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 11.25° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL TEE (SAME SIZE AS PIPES) PER UDACS PLATE NO. 31.
- STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
- STUB & CAP WATER SERVICE. REFER TO LANDSCAPE PLANS FOR CONTINUATION.
- STUB & CAP WATER SERVICE.
- INSTALL 90° BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
- INSTALL 45° BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 22.5° BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 11.25° BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 1" RPPA PER DETAIL ON SHEET C2.03
- INSTALL 1" METER PER DETAIL ON SHEET C2.03
- INSTALL RETAINING WALL WITH HANDRAIL PER STRUCTURAL DRAWINGS.

FIRE WATER AT DOMESTIC WATER CROSSINGS

ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A" VERTICAL SEPARATION OF NO LESS THAN 12 INCHES, AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.03, 2.22.02.B1, AND 2.22.02.B2.

WARNING:

WARNING FIRE LINE (NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED RPPA INSTALLATIONS:

"TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME."

NOTE:

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM DRAIN CROSSING AND CLEARANCES.

NOTE:

ALL ABOVE GROUND UTILITY SHALL COMPLY WITH TITLE 19.06.010 UTILITY SCREENING REQUIREMENTS, ALL ABOVE GROUND UTILITIES GREATER THAN 27 CUBIC FEET SHALL BE SETBACK A MINIMUM OF 3' FROM THE BACK OF SIDEWALK AND SHALL INCLUDE VEGETATION THAT UPON MATURITY WILL ADEQUATELY SCREEN SUCH EQUIPMENT FROM PUBLIC VIEW.

NOTE:

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRENCH SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPOINTMENTS ARE AVAILABLE.

NOTE:

CONTRACTOR TO INCLUDE COST OF UNDERGROUND UTILITY DETECTION COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION OR EXCAVATION. ENGINEER TO BE PROVIDED WITH AS-BUILT SKETCH OF EXISTING UTILITIES, AND IS TO BE NOTIFIED IMMEDIATELY OF ANY POTENTIAL CONFLICTS WITH PROPOSED UTILITIES AND/OR FINISHED GRADES.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (2) 10"

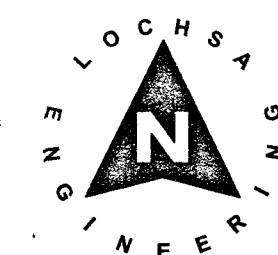
THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 59. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVWD DRAIN ACCESS TO THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (1) 3/4", (2) 1", (2) 1-1/2"

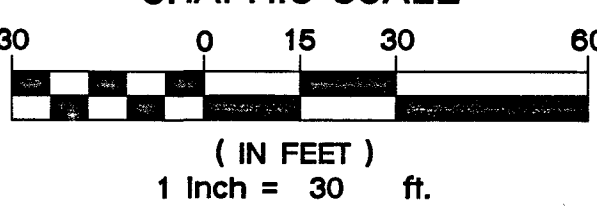
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

ANY BLOCK WALL 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 STAKED PRIOR TO THE START OF CONSTRUCTION.



GRAPHIC SCALE



ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A" VERTICAL SEPARATION OF NO LESS THAN 12 INCHES, AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.03, 2.22.02.B1, AND 2.22.02.B2.

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WARNING FIRE LINE (NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED RPPA INSTALLATIONS:

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NOTE:

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM DRAIN CROSSING AND CLEARANCES.

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ALL ABOVE GROUND UTILITY SHALL COMPLY WITH TITLE 19.06.010 UTILITY SCREENING REQUIREMENTS, ALL ABOVE GROUND UTILITIES GREATER THAN 27 CUBIC FEET SHALL BE SETBACK A MINIMUM OF 3' FROM THE BACK OF SIDEWALK AND SHALL INCLUDE VEGETATION THAT UPON MATURITY WILL ADEQUATELY SCREEN SUCH EQUIPMENT FROM PUBLIC VIEW.

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THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRENCH SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPOINTMENTS ARE AVAILABLE.

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REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (1) 3/4", (2) 1", (2) 1-1/2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

ANY BLOCK WALL 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 STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW CALCULATIONS

BASD ON:	BLDG 1	C-STORE	CARWASH	STORAGE
SQUARE FOOTAGE:	2,061 SF	3,868	2,154	94,055
LARGEST AREA BETWEEN SEPARATION WALL:	N/A	N/A	N/A	N/A
BUILDING HEIGHT:	24'-0"	19'-2"	22'-6"	21'-10 3/8"
NUMBER OF STORIES:	1 STORY	1 STORY	1 STORY	3 STORY
TYPE OF CONSTRUCTION:	V-B	V-B	V-B	II-B
EXPOSURES:	N/A	N/A	N/A	N/A
SPRINKLER SYSTEM:	NO	NO	NO	YES
OCCUPANCY:	A-2	M	B	B/R-3/5-1
ROOF CONSTRUCTION:	WOOD TRUSSES W/ PLYWOOD SHEATHING	WOOD TRUSSES	WOOD TRUSSES	GLASS A
FLOW REQUIRED @ 20 PSI RESIDUAL:	1,500 GPM	1,750 GPM	1,500 GPM	3,250 GPM

EX. STATIC WATER PRESSURE IS 67± PSI IN STREET.

FIRE ACCESS NOTES/ LEGEND:

- INSTALL FIRE LANE SIGN AT A MAXIMUM DISTANCE OF EVERY 100' ALONG THE FIRE LANE PER FIRE LANE DETAIL SHEET C2.01
- INSTALL FIRE LANE ENTRANCE WARNING SIGN PER DETAIL ON SHEET C2.01

NOTE: CURB SHALL BE PAINTED RED ADJACENT TO DESIGNATED FIRE TRUCK ROUTE
24' WIDE FIRE TRUCK ACCESSIBLE ROUTE
TURNING RADIUS OF 28' & 52' MIN.

NOTE:

REMOVAL OF EXISTING ACTIVE UTILITIES TO BE PHASED AS DIRECTED BY OWNER.

APPROVED FOR CONSTRUCTION

Dishar Per
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 6/14/17 PROJECT NO. 125376
TOTAL LVWD APPROVED FIRE FLOW=3,250 GPM AT 20 PSI RESIDUAL
SHEETS: C1.01, C1.02, C2.01, C2.02, C2.03 & C4.03

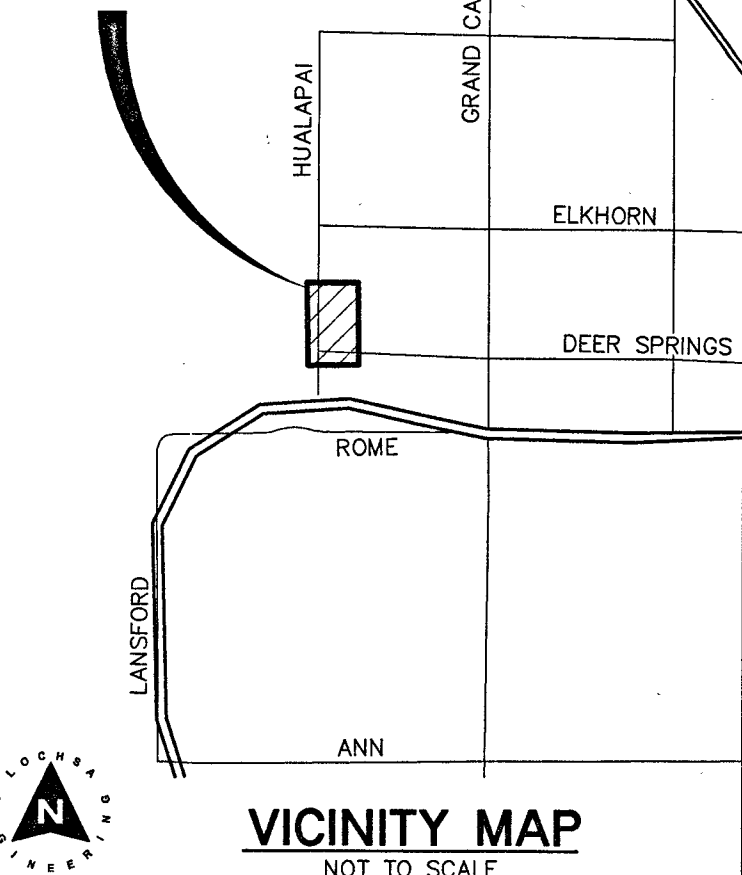
NOTE: ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE

CITY OF LAS VEGAS

FIRE DEPARTMENT APPROVAL

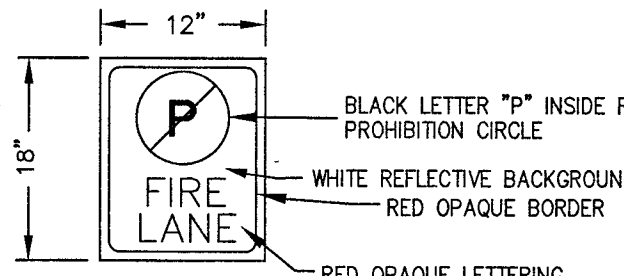
BY: *[Signature]* DATE: 5/30/17
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. TOTAL FIRE FLOW=3,250 GPM AT 20 P.S.I. RESIDUAL.

PROJECT SITE

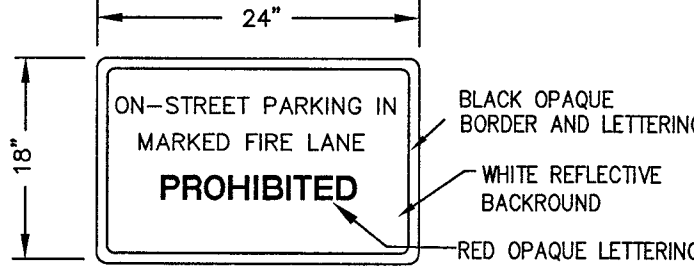


VICINITY MAP

NOT TO SCALE



"FIRE LANE" SIGN N.T.S.



ENTRANCE WARNING SIGN N.T.S.

GENERAL UTILITY NOTES:

- STATIC WATER PRESSURE IN ZONE 2975 = 67 PSI±.
- THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
- TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER UDACS PLATE NO. 17, EXCEPT WITHIN RIGHT OF WAYS, TRENCH BACKFILL TO BE CONSTRUCTED PER UDACS PLATE NO. 18.
- ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE DCSWCS SECTION 2.2.18 (TYPICAL).
- WATER AND SEWER TO BE INSTALLED IN SEPARATE TRENCHES WITH AT LEAST 10' MINIMUM SEPARATION FROM EXISTING PIPE WALLS (TYPICAL). SEE UDACS SECTION 2.22.
- CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
- THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, LOCATION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
- CONTRACTOR/OWNER TO OBTAIN CITY OF LAS VEGAS OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
- CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
- ALL EXISTING STREET LIGHTS INDICATED ON THESE PLANS ARE SHOWN FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE UNLESS NOTED WITH STATION AND OFFSET.
- ALL EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY. PROPOSED GAS LINES SHOWN ON THESE PLANS ARE FOR COORDINATION ONLY. SEE SOUTHWEST GAS PLANS FOR CONSTRUCTION.
- ALL DIMENSIONS TO UTILITIES LINES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
- ALL LINEAR FEET OF STORM DRAIN AND SANITARY SEWER PIPE NOTED ON PLANS IS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

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



1-800-227-2800

1-702-432-5300

1-702-227-2929

1-702-227-2929

1-702-227-2929

1-702-227-2929

1-702-227-2929

UTILITY PLANS
SHEET 1 OF 3

DEER SPRINGS AND HUALAPAI
CITY OF LAS VEGAS,
NEVADA

SHEET

PROJECT No.: 161109

DATE: 4/25/2017

SCALE: 1"=30'

DRAWN BY: MGZ

DESIGNED BY: MGZ

CHECKED BY: JLI

PROJECT No.: 161109

DATE: 4/25/2017

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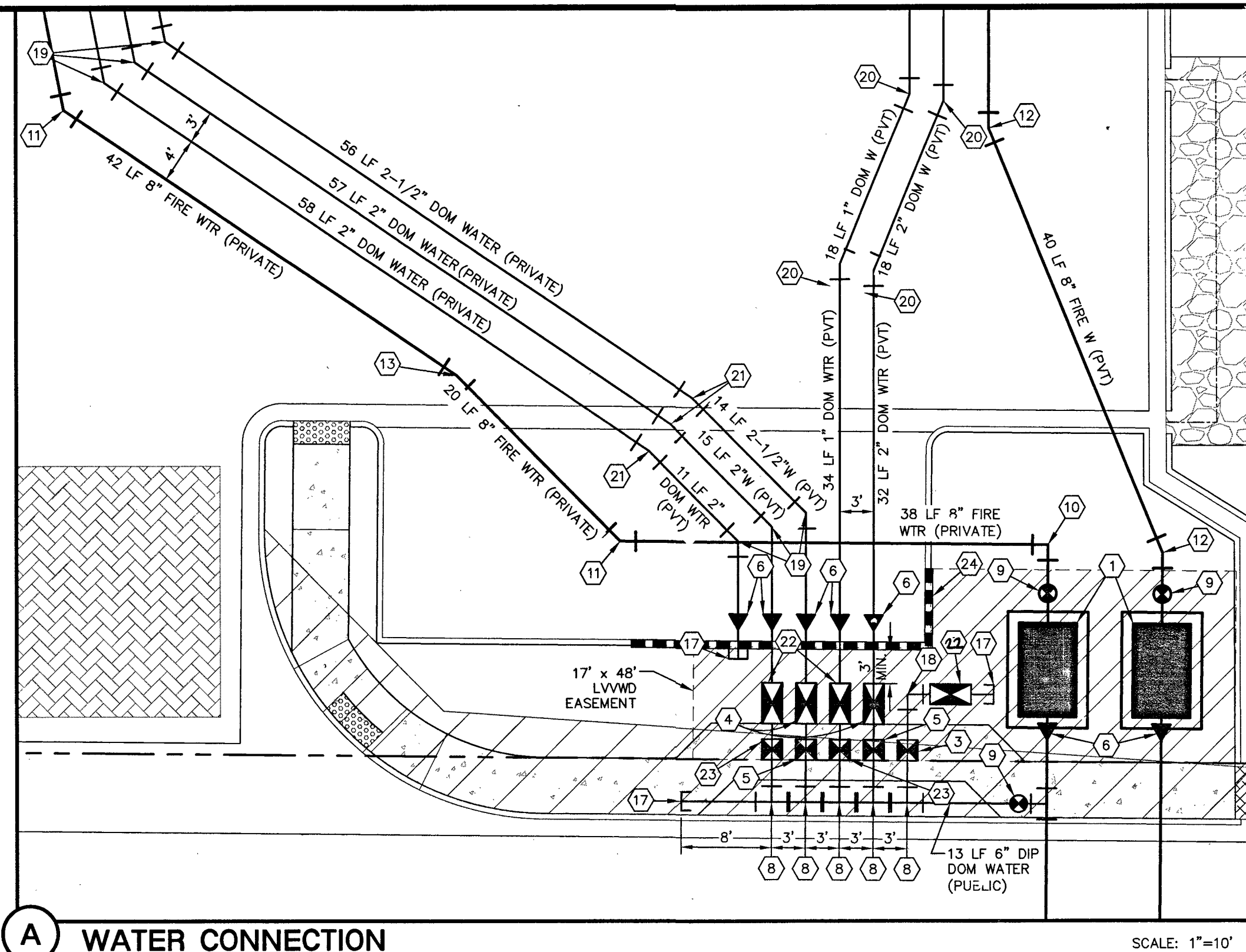
SCALE: 1"=30'

DRAWN BY: MGZ

DESIGNED BY: MGZ

NOTE:

CONTRACTOR SHALL EMPLOY A NEVADA LICENSED PROFESSIONAL LAND SURVEYOR (PLS) TO FIELD STAKE THE EXTENT OF THE PROPOSED/EXISTING LVWD EASEMENT WITHIN THE PROJECT SITE. THESE STAKES SHALL BE CONTINUOUSLY MAINTAINED DURING THE CONSTRUCTION OF THE PROJECT. THE PLS SHALL ALSO FIELD STAKE THE PROPOSED EXTENT OF ADJACENT PROJECT BUILDING IMPROVEMENTS IMMEDIATELY ADJACENT TO THE EASEMENT. CONTRACTOR SHALL NOTIFY THE LVWD INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE INITIAL BUILDING EXCAVATION AND FOUNDATION CONSTRUCTION ACTIVITY. LVWD WILL INSPECT THE FIELD STAKING FOR COMPLIANCE WITH SEPARATION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE LVWD PRIOR TO UTILITY TRENCHING OR ANY OTHER SUBGRADE EFFORTS WITHIN THE PROPOSED/EXISTING LVWD EASEMENT.

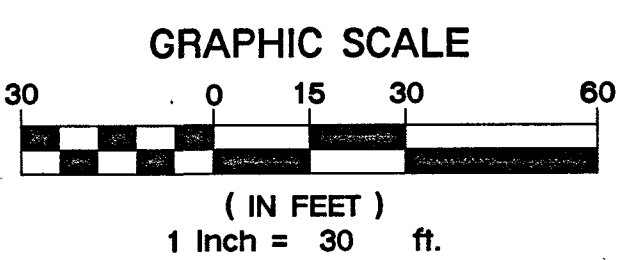
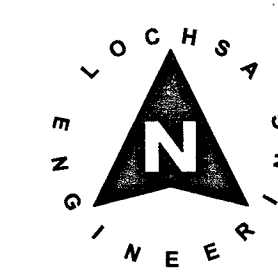


WATER CONNECTION

SCALE: 1"=10'

SEWER CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET
- STUB & CAP SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
- INSTALL 48" SANITARY SEWER MANHOLE & BASE PER DCSWCS DWG. NO. SD-1A & SD-1B, CONCRETE COLLAR PER SD-4, SINGLE COVER 24"
- INSTALL WYE LATERAL CONNECTION PER DCSWCS DWG. NO. SD-22.
- INSTALL SEWER CLEAN-OUT PER DCSWCS DWG. NO. SD-26.
- INSTALL 1500 GALLON SAND/OIL INTERCEPTOR BY OTHERS
- INSTALL 1500 GALLON GREASE INTERCEPTOR BY OTHERS
- NOT USED
- SAMPLE MANHOLE FOR INTERCEPTOR(S) BY OTHERS
- INSTALL SEWER BACK WATER VALVE.



FIRE WATER AT DOMESTIC WATER CROSSINGS

ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A" VERTICAL SEPARATION OF NO LESS THAN SIX INCHES, AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.03, 2.22.02.B1, AND 2.22.02.B2.

WARNING:

WARNING FIRE LINE (NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDARPD
INSTALLATIONS:

"TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME."

NOTE:

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 "F" UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM DRAIN CROSSING AND CLEARANCES.

NOTE:

ALL ABOVE GROUND UTILITY SHALL COMPLY WITH TITLE 19.08.010 UTILITY SCREENING REQUIREMENTS. ALL ABOVE GROUND UTILITIES GREATER THAN 27" CUBIC FEET SHALL BE SETBACK A MINIMUM OF 3' FROM THE BACK OF SIDEWALK AND SHALL INCLUDE VEGETATION THAT UPON MATURITY WILL ADEQUATELY SCREEN SUCH EQUIPMENT FROM PUBLIC VIEW.

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CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APURTANCES ARE AVAILABLE.

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REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (2) 10"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 59. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (3) 1", (2) 1-1/2"

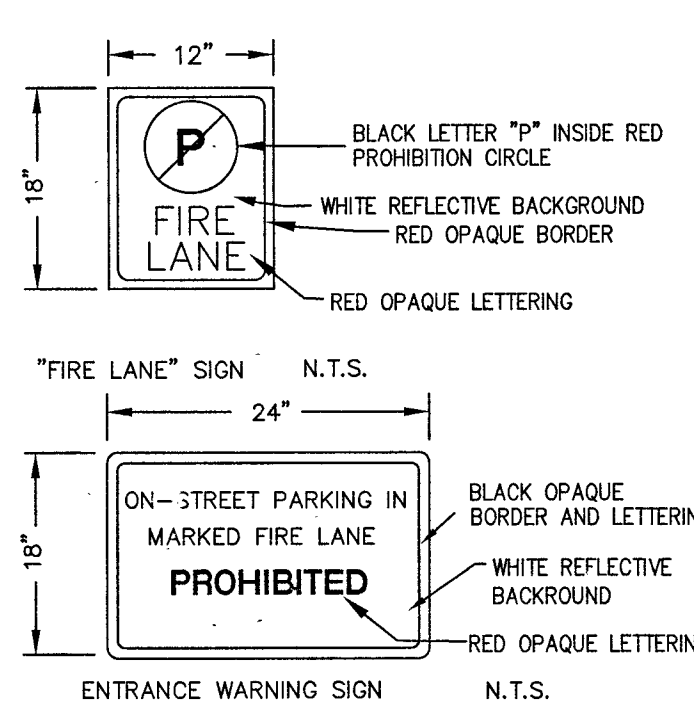
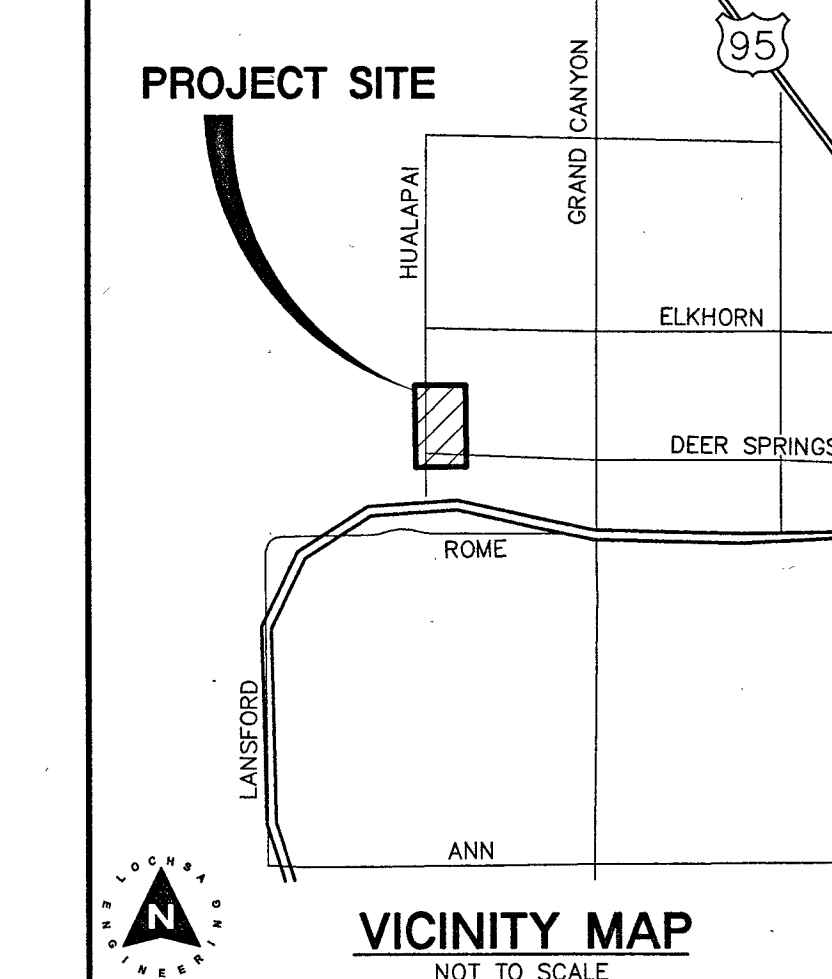
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EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

WATER CONSTRUCTION NOTES:

- ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS)" LATEST EDITION.
- NOT ALL NOTES USED ON THIS SHEET
- INSTALL 10" RPDA PER UDACS PLATE NO. 59.
- NOT USED
- INSTALL 3/4" METER PER DETAIL ON SHEET C2.03
- INSTALL 1-1/2" RPPA PER DETAIL ON SHEET C2.03
- INSTALL 1-1/2" METER PER DETAIL ON SHEET C2.03
- INSTALL REDUCER (SAME SIZE AS PIPES)
- INSTALL FIRE HYDRANT W/ GATE VALVE PER UDACS PLATE NO. 40.
- INSTALL SERVICE SADDLE (SAME SIZE AS PIPE) PER DETAIL ON SHEET C2.03
- INSTALL GATE VALVE (SAME SIZE AS PIPE) PER UDACS PLATE NO. 30 AND 39.
- INSTALL 45" BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 22.5" BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 11.25" BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL TEE (SAME SIZE AS PIPES) PER UDACS PLATE NO. 31.
- STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
- STUB & CAP WATER SERVICE. REFER TO LANDSCAPE PLANS FOR CONTINUATION.
- STUB & CAP WATER SERVICE.
- INSTALL 90" BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
- INSTALL 45" BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 22.5" BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 11.25" BEND (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31
- INSTALL 1" RPPA PER DETAIL ON SHEET C2.03
- INSTALL 1" METER PER DETAIL ON SHEET C2.03
- INSTALL RETAINING WALL WITH HANDRAIL PER STRUCTURAL DRAWINGS.

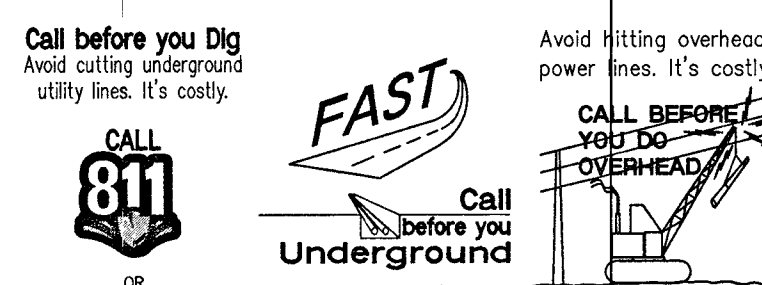


GENERAL UTILITY NOTES:

- STATIC WATER PRESSURE IN ZONE 2975 = 67 PSI.
- THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
- TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER UDACS PLATE NO. 17, EXCEPT WITHIN NDOT RIGHT OF WAYS. TRENCH BACKFILL TO BE CONSTRUCTED PER UDACS PLATE NO. 18.
- ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE DCSWCS SECTION 2.21.8 (TYPICAL).
- WATER AND SEWER TO BE INSTALLED IN SEPARATE TRENCHES WITH AT LEAST 18" MINIMUM SEPARATION FROM EXTERIOR PIPE WALLS (TYPICAL). SEE UDACS SECTION 2.22.
- CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
- THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
- CONTRACTOR/OWNER TO OBTAIN CITY OF LAS VEGAS OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
- CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
- ALL EXISTING STREET LIGHTS INDICATED ON THESE PLANS ARE SHOWN FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE UNLESS NOTED WITH STATION AND OFFSET.
- ALL EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY. PROPOSED GAS LINES SHOWN ON THESE PLANS ARE FOR COORDINATION ONLY. SEE SOUTHWEST GAS PLANS FOR CONSTRUCTION.
- ALL DIMENSIONS TO UTILITIES LINES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
- ALL LINEAR FEET OF STORM DRAIN AND SANITARY SEWER PIPE NOTED ON PLANS IS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.



FIRE FLOW CALCULATIONS

BASED ON:	BLDG 1	C-STORE	CARWASH	STORAGE
SQUARE FOOTAGE:	2,061 SF	3,868	2,154	94,055
LARGEST AREA BETWEEN SEPARATION WALL:	N/A	N/A	N/A	N/A
BUILDING HEIGHT:	24'-0"	19'-2"	22'-6"	21'-10 3/8"
NUMBER OF STORIES:	1 STORY	1 STORY	1 STORY	3 STORY
TYPE OF CONSTRUCTION:	V-B	V-B	V-B	I-B
EXPOSURES:	N/A	N/A	N/A	N/A
SPRINKLER SYSTEM:	NO	NO	NO	YES
OCCUPANCY:	A-2	M	B	B/R-3/S-1
ROOF CONSTRUCTION:	WOOD TRUSSES W/ PLYWOOD SHEATHING	WOOD TRUSSES	WOOD TRUSSES	CLASS A
FLOW REQUIRED @ 20 PSI RESIDUAL:	1,500 GPM	1,750 GPM	1,500 GPM	3,250 GPM

EX. STATIC WATER PRESSURE IS 67.4 psi IN STREET.

FIRE ACCESS NOTES/ LEGEND:

- INSTALL FIRE LANE SIGN AT A MAXIMUM DISTANCE OF EVERY 100' ALONG THE FIRE LANE PER FIRE LANE DETAIL SHEET C2.01
- INSTALL FIRE LANE ENTRANCE WARNING SIGN PER DETAIL ON SHEET C2.01.

NOTE: CURB SHALL BE PAINTED RED ADJACENT TO DESIGNATED FIRE TRUCK ROUTE

24' WIDE FIRE TRUCK ACCESSIBLE ROUTE TURNING RADIUS OF 28' & 52' MIN.

NOTE:

REMOVAL OF EXISTING ACTIVE UTILITIES TO BE PHASED AS DIRECTED BY OWNER.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 6/14/17 PROJECT NO. 125376
TOTAL LVWD APPROVED FIRE FLOW=3,250 GPM AT 20 PSI RESIDUAL
SHEETS: C1.01, C1.02, C2.01, C2.02, C2.03 & C4.03

NOTE: ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

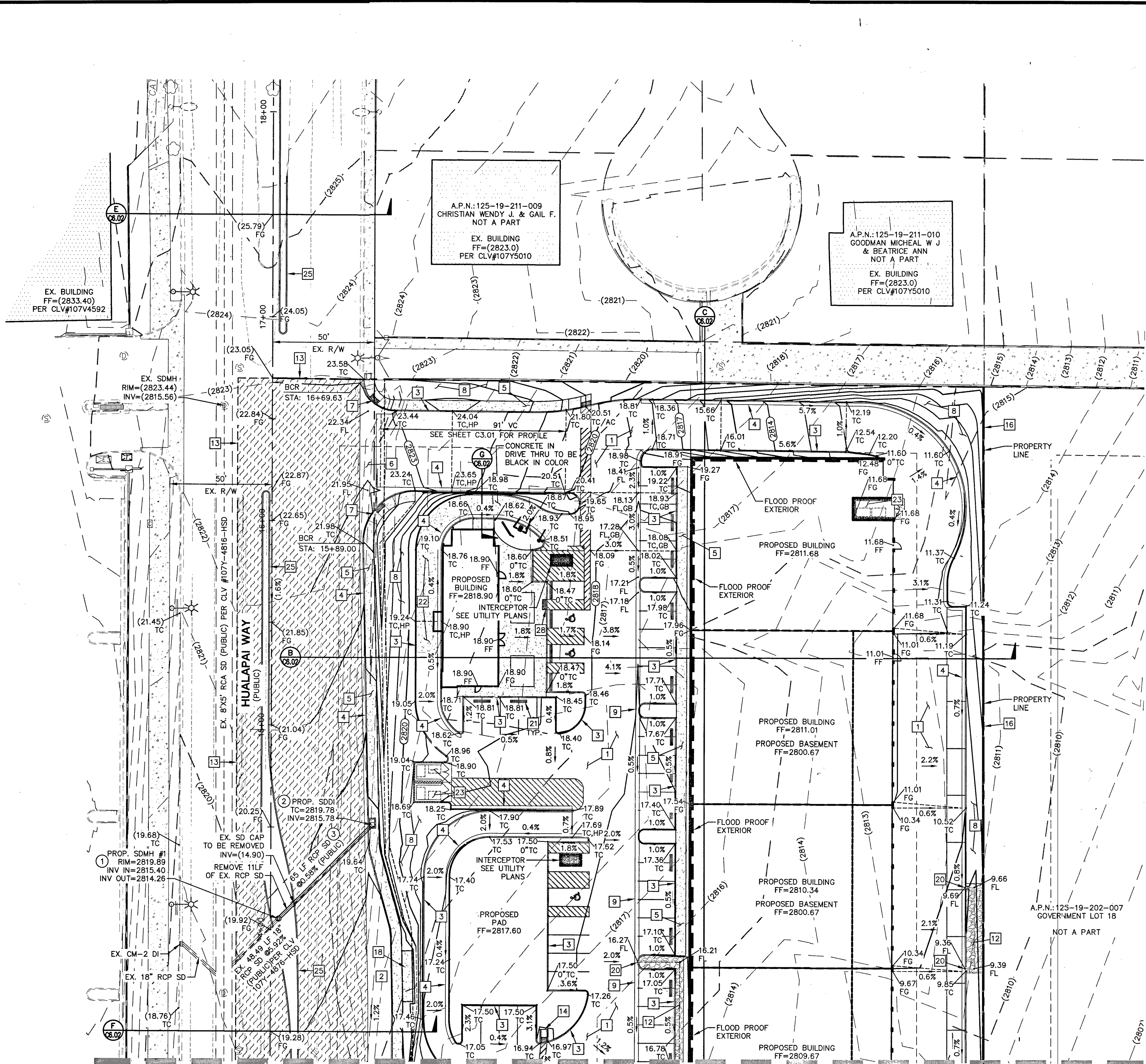
BY: [Signature] DATE: 5/30/17
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. TOTAL FIRE FLOW=3,250 GPM AT 20 P.S.I. RESIDUAL.

FOR CONTINUATION SEE SHEET C2.01

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOTS	SPOTS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVE	100W HPS STREETLIGHTS	150W HPS STREETLIGHTS	200W HPS STREETLIGHTS	250W HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)																		(BWV)				
ROW LINE	SCARP LINE	PROPOSED:	(2122)																		(BWV)				

C2.02
SHEET 4 OF 15
CLV No.
69418

DATE: 5/24/2017
HTE No.
17-19756



FOR CONTINUATION SEE SHEET C3.01

CITY OF LAS VEGAS JURISDICTION CLARK COUNTY NEVADA JURISDICTION

FLOOD ZONE NOTE:

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY, NEVADA, AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER: 32003C1750E, EFFECTIVE DATE: SEPTEMBER 27, 2002. THE PROJECT SITE FALLS WITHIN ZONE 'X' (UNSHADED), DESCRIBED BY FEMA AS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

CUT	FILL	NET
19,474.45 CY	3,290.62 CY	16,183.83 CY

NOTE: CUT/FILL QUANTITIES ARE TO FINISHED GRADE & DO NOT INCLUDE MATERIAL THICKNESS, FOOTINGS, ETC.

A.P.N.:

BASIS OF BEARINGS:

SOUTH 89°47'00" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. ALSO BEING THE CENTERLINE OF CENTENNIAL PARKWAY AS SHOWN ON FILE 107, PAGE 31 OF SURVEYS IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK:

RIVET & PLATE TOP OF CURB AT THE SOUTHEAST CORNER OF THE BRIDGE OVER CLARK COUNTY HIGHWAY 215 ON HUALAPAI. ELEVATION = 853.317 (METERS) / 2799.59 (U.S. SURVEY FEET) NORTH AMERICAN VERTICAL DATUM OF 1988

STORM DRAIN

CONSTRUCTION NOTES:

NOT ALL NOTES USED ON THIS SHEET -

- INSTALL 48" TYPE I STORM DRAIN MANHOLE PER C.C.A.U.S.D. No. 403
- CONSTRUCT 2.5" TYPE "CM2" DROP INLET PER C.C.A.U.S.D. Nos. 412.1 AND 421
- RCP STORM DRAIN TO BE INSTALLED WITH JOINT GASKETS PER UDACS SECTION 2, PARAGRAPH 2.22.02-D

CONSTRUCTION NOTES:

ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION. REFER TO LANDSCAPE PLANS FOR SPECIFICATIONS.

NOT ALL NOTES USED ON THIS SHEET -

- CONSTRUCT AC PAVEMENT PER DETAIL 3 ON C6.01
- CONSTRUCT TYPICAL BUS STOP PER CCAUSD #234.1
- CONSTRUCT "A" TYPE CURB PER DETAIL 4 SHEET C6.01
- CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216
- CONSTRUCT CONC. SIDEWALK PER CCAUSD No. 234
- CONSTRUCT VALLEY GUTTER PER CCAUSD No. 228
- CONSTRUCT SIDEWALK RAMP PER CCAUSD No. 235 CASE I
- LANDSCAPING - REFER TO LANDSCAPE PLANS FOR SPECIFICATIONS
- CONSTRUCT 2" VALLEY GUTTER PER DETAIL 8 ON C6.01
- CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. No. 236
- CONSTRUCT MODIFIED CURB RAMP PER DETAIL 1 ON SHEET C6.01
- INSTALL RIP RAP SWALES PER DETAIL 5 ON C6.01 WITH CURB CUTS PER DETAIL 6 ON C6.01
- SAW CUT AND MATCH EXISTING PAVEMENT
- CONSTRUCT SIDEWALK RAMP PER DETAIL 13 ON C6.02
- CONSTRUCT CONC. "U" CHANNEL PER DETAIL 2 ON C6.01
- PROPOSED WALL BY OTHERS
- PROPOSED GATE BY OTHERS
- CONSTRUCT BUS STOP PASSENGER SHELTER PAD PER CCAUSD #234.2
- RETAINING WALL BY OTHERS
- CONSTRUCT 2" WIDE CURB OPENING
- CONSTRUCT PARKING BUMPER PER DETAIL 14 ON C6.02
- CONSTRUCT CONC. PAVEMENT PER DETAIL 7 ON C6.01
- PROPOSED TRASH ENCLOSURE PER ARCH. PLANS
- CONSTRUCT SIDEWALK RAMP PER DETAIL 15 ON C6.02
- CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
- RETAINING WALL WITH HANDRAIL BY OTHERS
- CONSTRUCT MODIFIED CURB RAMP PER DETAIL 16 ON SHEET C6.02
- INSTALL DETECTABLE WARNING (TRUNCATED DUMPS) PER CCAUSD No. 235, SHEET 4
- INSTALL ENHANCED PAVEMENT PER ARCHITECTURAL DRAWINGS

GENERAL GRADING NOTES:

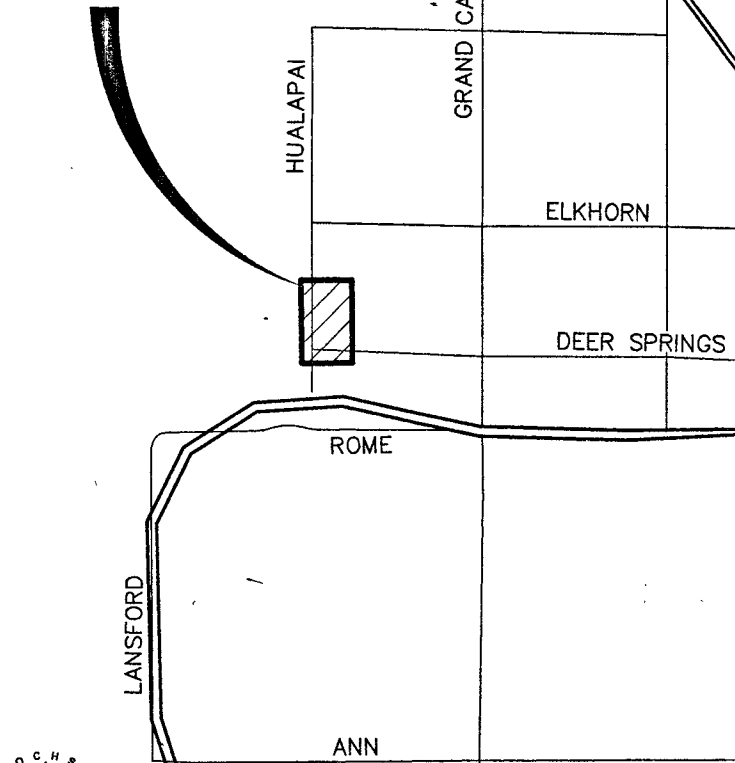
- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.

GRADING PLAN CERTIFICATION

NAME: *11286* PE # *51411* DATE

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#4857

PROJECT SITE



VICINITY MAP

NOT TO SCALE

GRADING NOTES:

- SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE, NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY: GEOTEK, INC., PROJECT No. 13092-LV, DATED: AUGUST 31, 2016.

LAS VEGAS VALLEY

CONSTRUCTION SITE BEST

MANAGEMENT PRACTICES

GUIDANCE MANUAL SECTION

3.5.1 STANDARD NOTES 1-5

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHT-OF-WAY OF THE (INSERT JURISDICTION) AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIAL SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE (INSERT JURISDICTION) AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS FEASIBLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV10000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OR 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS "SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

EXISTING UTILITY NOTE:

CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO MATCH PROPOSED FINISH GRADE ELEVATIONS.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

Call before you Dig

Avoid cutting underground utility lines. It's costly.

CALL 811

before you Dig

Underground

1-800-227-2800

1-702-432-6300

1-702-227-2929

5/24/2017

CLV No.

69418

17-19756

GRADING PLANS
SHEET 2 OF 2

DEER SPRINGS AND HUALAPAI
CITY OF LAS VEGAS,
NEVADA

PROJECT No.: 161109

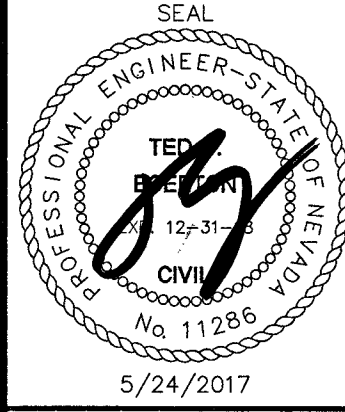
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SCALE: 1"=30'

DRAWN BY: MGZ

DESIGNED BY: MGZ

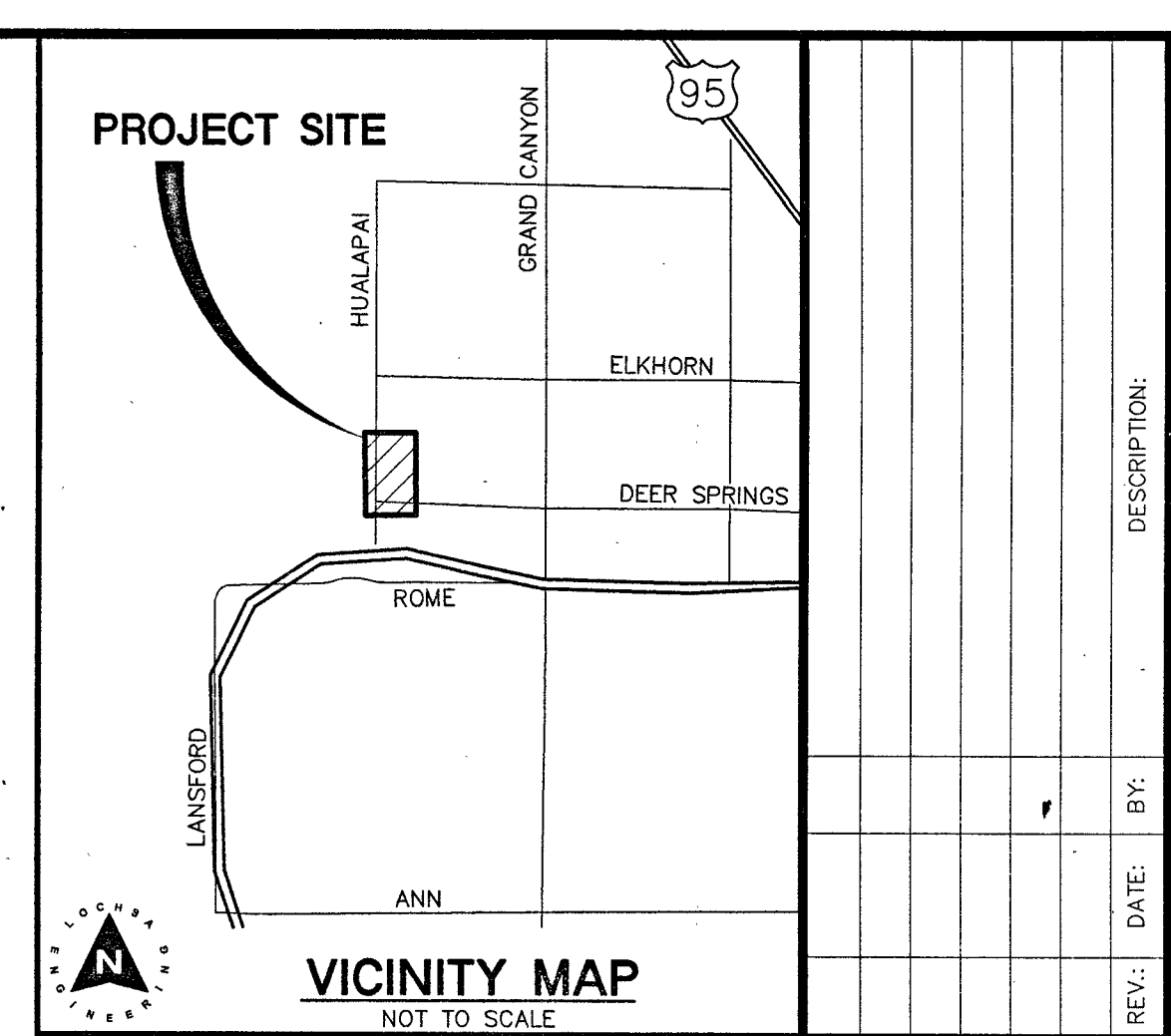
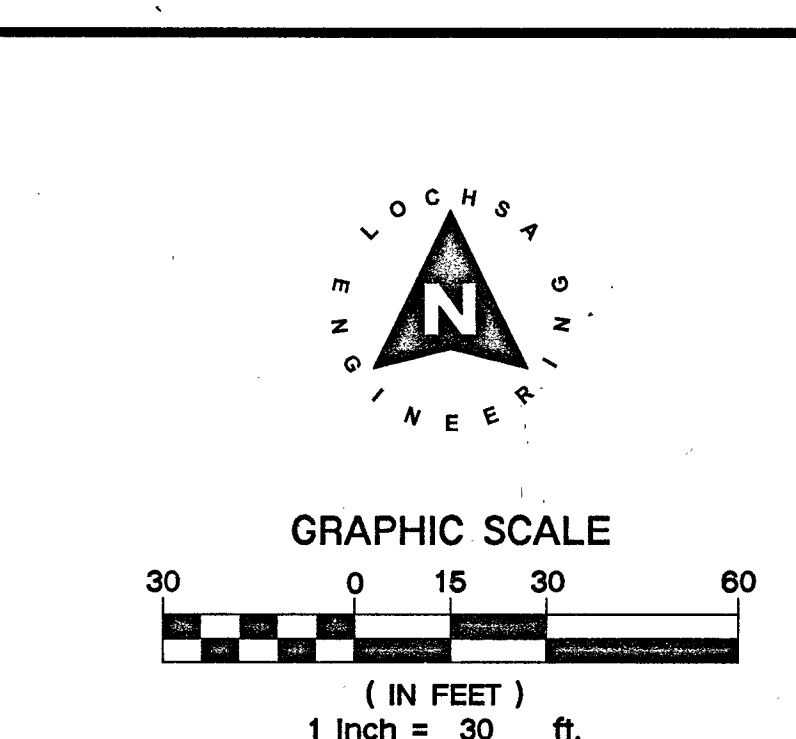
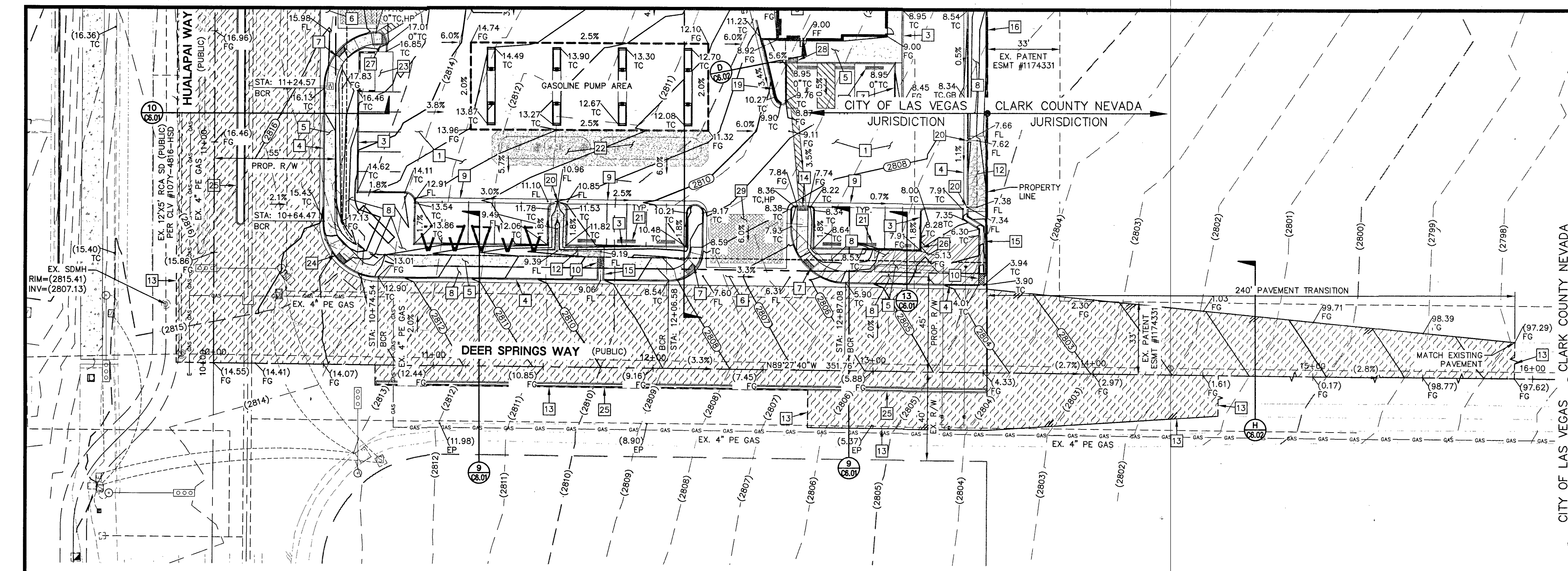
CHECKED BY: JLI



SHEET No. C3.02
SHEET 7 OF 15

69418

17-19756



STORM DRAIN CONSTRUCTION NOTES:

- 1. NOT ALL NOTES USED ON THIS SHEET
- 2. INSTALL 48" TYPE 1 STORM DRAIN MANHOLE PER C.C.A.U.S.D. No. 403
- 3. CONSTRUCT 2.5' TYPE "OM2" DROP INLET PER C.C.A.U.S.D. Nos. 412.1 AND 421
- 4. RCP STORM DRAIN TO BE INSTALLED WITH JOINT GASKETS PER UDACS SECTION 2, PARAGRAPH 2.22.02-D

CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION
- 2. NOT ALL NOTES USED ON THIS SHEET
- 3. CONSTRUCT AC PAVEMENT PER DETAIL 3 ON C6.01
- 4. CONSTRUCT TYPICAL BUS STOP PER CCAUSD #234.1
- 5. CONSTRUCT "A" TYPE CURB PER DETAIL 4 SHEET C6.01
- 6. CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216
- 7. CONSTRUCT CONC. SIDEWALK PER CCAUSD No. 234
- 8. CONSTRUCT VALLEY GUTTER PER CCAUSD No. 228
- 9. CONSTRUCT SIDEWALK RAMP PER CCAUSD No. 235 CASE 1
- 10. LANDSCAPING - REFER TO LANDSCAPE PLANS FOR SPECIFICATIONS
- 11. CONSTRUCT 2' VALLEY GUTTER PER DETAIL 8 ON C6.01
- 12. CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. No. 236
- 13. CONSTRUCT MODIFIED CURB RAMP PER DETAIL 1 ON SHEET C6.01
- 14. INSTALL RIP RAP SWALES PER DETAIL 5 ON C6.01 WITH CURB CUTS PER DETAIL 6 ON C6.01
- 15. SAWCUT AND MATCH EXISTING PAVEMENT
- 16. CONSTRUCT SIDEWALK RAMP PER DETAIL 13 ON C6.02
- 17. CONSTRUCT CONC. "U" CHANNEL PER DETAIL 2 ON C6.01
- 18. PROPOSED WALL BY OTHERS
- 19. PROPOSED GATE BY OTHERS
- 20. CONSTRUCT BUS STOP PASSENGER SHELTER PAD PER CCAUSD #234.2
- 21. RETAINING WALL BY OTHERS
- 22. CONSTRUCT 2' WIDE CURB OPENING
- 23. CONSTRUCT PARKING BUMPER PER DETAIL 14 ON C6.02
- 24. CONSTRUCT CONC. PAVEMENT PER DETAIL 7 ON C6.01
- 25. PROPOSED TRASH ENCLOSURE PER ARCH. PLANS
- 26. CONSTRUCT SIDEWALK RAMP PER DETAIL 15 ON C6.02
- 27. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
- 28. RETAINING WALL WITH HANDRAIL BY OTHERS
- 29. CONSTRUCT MODIFIED CURB RAMP PER DETAIL 16 ON SHEET C6.01
- 30. INSTALL DEFLECTABLE WARNING (TRUNCATED DOMES) PER CCAUSD No. 235, SHEET 4
- 31. INSTALL ENHANCED PAVEMENT PER ARCHITECTURAL DRAWINGS

GRADING NOTES:

- 1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- 2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.
- 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE, NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY: GEOTEK, INC., PROJECT No. 13092-LV, DATED: AUGUST 31, 2016.

LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL SECTION 3.5.1 STANDARD NOTES 1-5

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHT-OF-WAY OF THE (INSERT JURISDICTION) AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIAL SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE (INSERT JURISDICTION) AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OR 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

EXISTING UTILITY NOTE:

CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO MATCH PROPOSED FINISH GRADE ELEVATIONS.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY, SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

GRADING PLAN CERTIFICATION

NAME: PE # DATE: 11/26/2017

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#4857

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

125-19-202-006

BASIS OF BEARINGS:

SOUTH 89°47'00" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., ALSO BEING THE CENTERLINE OF CENTENNIAL PARKWAY AS MEASURED BETWEEN HUALAPAI WAY AND CONQUISTADOR STREET AS SHOWN ON FILE 107, PAGE 31 OF SURVEYS IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK:

RIVET & PLATE IN TOP OF CURB AT THE SOUTHEAST CORNER OF THE BRIDGE OVER CLARK COUNTY HIGHWAY 215 ON HUALAPAI. ELEVATION = 653.317 (METERS) / 2799.59 (U.S. SURVEY FEET) NORTH AMERICAN VERTICAL DATUM OF 1988

FLOOD ZONE NOTE:

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY, NEVADA, AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER 32003C1750E, EFFECTIVE DATE: SEPTEMBER 27, 2002. THE PROJECT SITE FALLS WITHIN ZONE "X" (UNSHADED), DESCRIBED BY FEMA AS: "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

CUT	FILL	NET
19,474.46 CY	3,290.62 CY	16,183.83 CY

NOTE: CUT/FILL QUANTITIES ARE TO FINISHED GRADE & DO NOT INCLUDE MATERIAL THICKNESS, FOOTINGS, ETC.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

125-19-202-006

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CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

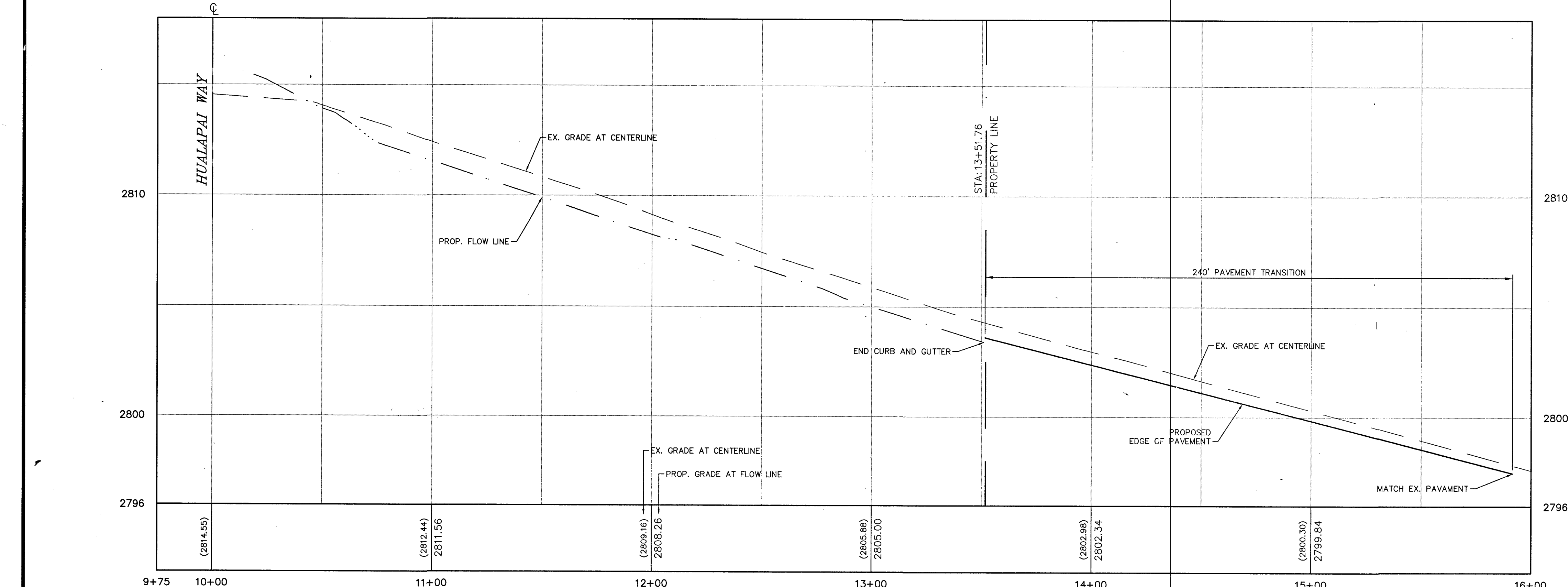
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DEER SPRINGS PROFILE VIEW
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

125-19-202-006

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SOUTH 89°47'00" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., ALSO BEING THE CENTERLINE OF CENTENNIAL PARKWAY AS MEASURED BETWEEN HUALAPAI WAY AND CONQUISTADOR STREET AS SHOWN ON FILE 107, PAGE 31 OF SURVEYS IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

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6/14/2017 2:00 PM T:\CADD\161109	LEGEND	CL OR SURVEY LINE	-----	EASEMENT LINE	-----	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	
		PROPERTY LINE	- - - - -	SAWCUT LINE		EXISTING:	---(2210)---					
		ROW LINE	=====	SCARP LINE		PROPOSED:	<u>(2122)</u>	=====				

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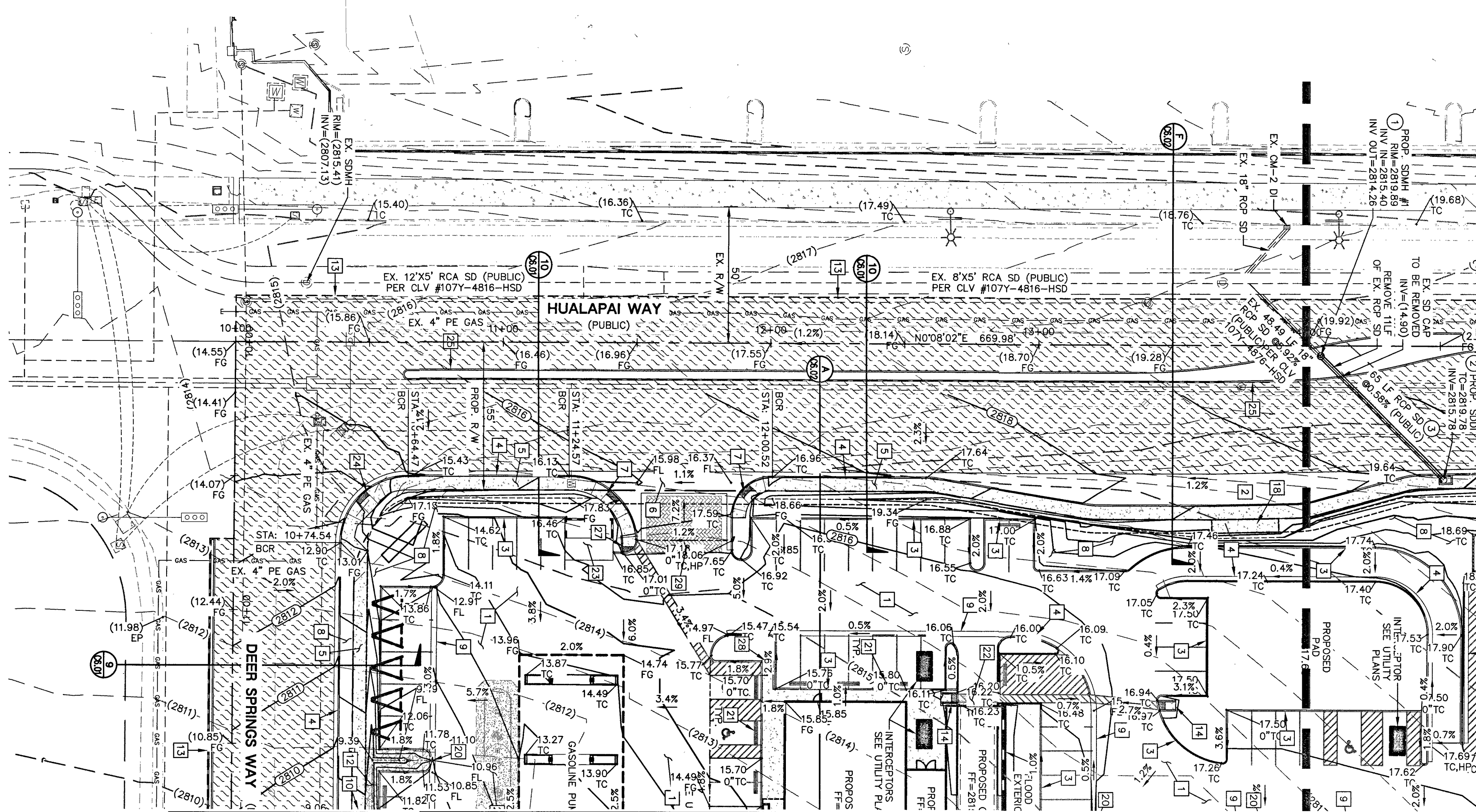
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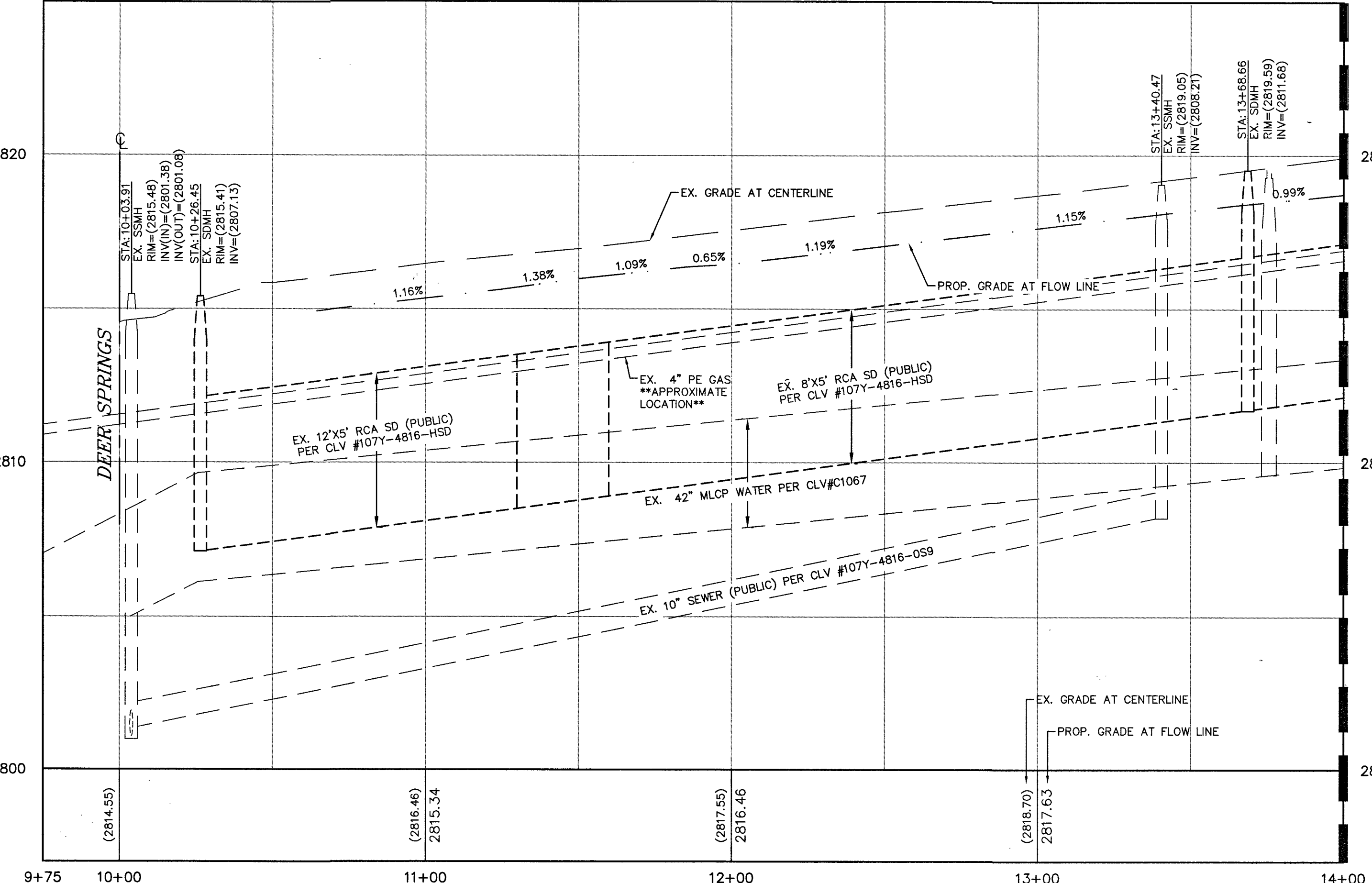
125-19-202-006

BASIS OF BEARINGS:

SOUTH 89°47'00



MATCH LINE - SEE SHEET C4.03



HUALAPAI PROFILE VIEW
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'

A.P.N.:
125-19-202-006

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SOUTH 89°47'00" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., ALSO BEING THE CENTERLINE OF CENTENNIAL PARKWAY AS MEASURED BETWEEN HUALAPAI WAY AND CONQUISTADOR STREET AS SHOWN ON FILE 107, PAGE 31 OF SURVEYS IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK:

RIVET & PLATE IN TOP OF CURB AT THE SOUTHEAST CORNER OF THE BRIDGE OVER CLARK COUNTY HIGHWAY 215 ON HUALAPAI. ELEVATION - 853.317 (METERS) / 2799.59 (U.S. SURVEY FEET) NORTH AMERICAN VERTICAL DATUM OF 1988

FLOOD ZONE NOTE:

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY, NEVADA, AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER: 32003C1750E, EFFECTIVE DATE: SEPTEMBER 27, 2002. THE PROJECT SITE FALLS WITHIN ZONE "X" (UNSHADED), DESCRIBED BY FEMA AS: "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

CUT	FILL	NET
19,474.46 CY	3,290.62 CY	16,183.83 CY

NOTE: CUT/FILL QUANTITIES ARE TO FINISHED GRADE & DO NOT INCLUDE MATERIAL THICKNESS, FOOTINGS, ETC.

STORM DRAIN

CONSTRUCTION NOTES:

- 1. NOT ALL NOTES USED ON THIS SHEET -
- 1. INSTALL 48" TYPE 1 STORM DRAIN MANHOLE PER C.C.A.U.S.D. No. 403
- 2. CONSTRUCT 2.5' TYPE "CM2" DROP INLET PER C.C.A.U.S.D. Nos. 412.1 AND 421
- 3. RCP STORM DRAIN TO BE INSTALLED WITH JOINT GASKETS PER UDACS SECTION 2, PARAGRAPH 2.22.02-D

CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION
- NOT ALL NOTES USED ON THIS SHEET -
- 1. CONSTRUCT AC PAVEMENT PER DETAIL 3 ON C6.01
- 2. CONSTRUCT TYPICAL BUS STOP PER CCAUSD #234.1
- 3. CONSTRUCT "A" TYPE CURB PER DETAIL 4 SHEET C6.01
- 4. CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216
- 5. CONSTRUCT CONC. SIDEWALK PER CCAUSD No. 234
- 6. CONSTRUCT VALLEY GUTTER PER CCAUSD No. 228
- 7. CONSTRUCT SIDEWALK RAMP PER CCAUSD No. 235 CASE 1
- 8. LANDSCAPING - REFER TO LANDSCAPE PLANS FOR SPECIFICATIONS
- 9. CONSTRUCT 2' VALLEY GUTTER PER DETAIL 8 ON C6.01
- 10. CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. No. 236
- 11. CONSTRUCT MODIFIED CURB RAMP PER DETAIL 1 ON SHEET C6.01
- 12. INSTALL RIP RAP SWALES PER DETAIL 5 ON C6.01 WITH CURB CUTS PER DETAIL 6 ON C6.01
- 13. SAWCUT AND MATCH EXISTING PAVEMENT
- 14. CONSTRUCT SIDEWALK RAMP PER DETAIL 13 ON C6.02
- 15. CONSTRUCT CONC. "U" CHANNEL PER DETAIL 2 ON C6.01
- 16. PROPOSED WALL BY OTHERS
- 17. PROPOSED GATE BY OTHERS
- 18. CONSTRUCT BUS STOP PASSENGER SHELTER PAD PER CCAUSD #234.2
- 19. RETAINING WALL BY OTHERS
- 20. CONSTRUCT 2' WIDE CURB OPENING
- 21. CONSTRUCT PARKING BUMPER PER DETAIL 14 ON C6.02
- 22. CONSTRUCT CONC. PAVEMENT PER DETAIL 7 ON C6.01
- 23. PROPOSED TRASH ENCLOSURE PER ARCH. PLANS
- 24. CONSTRUCT SIDEWALK RAMP PER DETAIL 15 ON C6.02
- 25. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
- 26. RETAINING WALL WITH HANDRAIL BY OTHERS
- 27. CONSTRUCT MODIFIED CURB RAMP PER DETAIL 16 ON SHEET C6.01
- 28. INSTALL REFLECTABLE WARNING (TRUNCATED DOMES) PER CCAUSD No. 235, SHEET 4
- 29. INSTALL ENHANCED PAVEMENT PER ARCHITECTURAL DETAIL 1

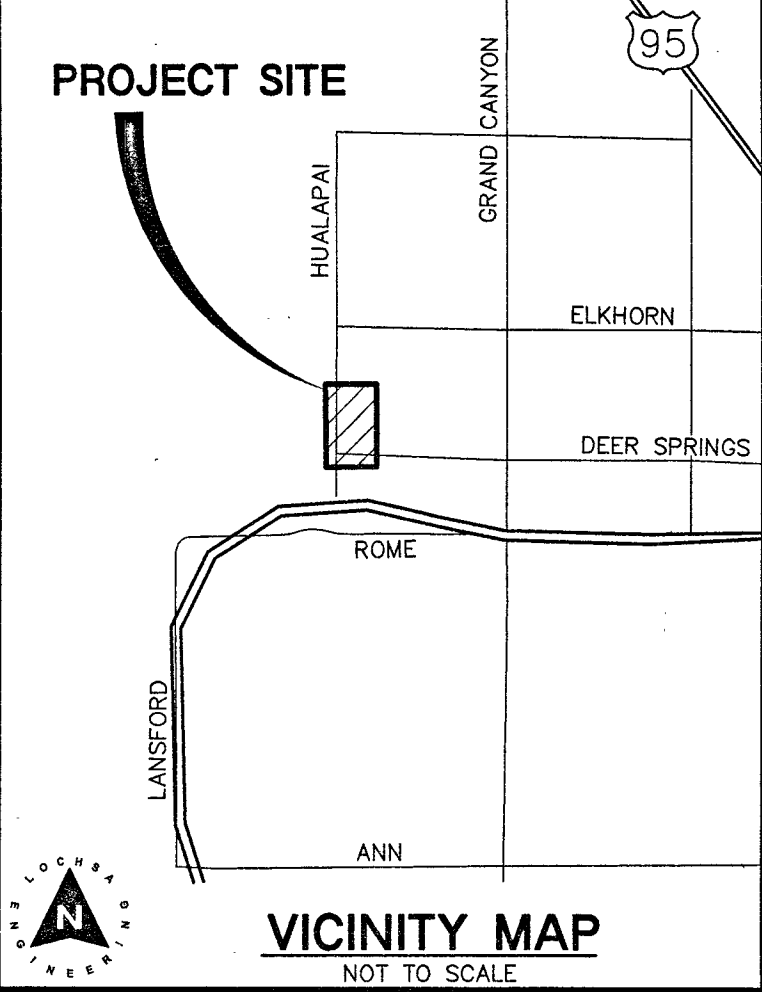
GENERAL GRADING NOTES:

- A. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION, THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARD GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- D. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- E. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.

GRADING PLAN CERTIFICATION

NAME: *Foy* FE # *11200* DATE: *5/24/17*

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#4857



GRADING NOTES:

- 1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- 2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK BY OTHERS.
- 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY: GEOTEK, INC., PROJECT No. 13592-LV, DATED: AUGUST 31, 2016.

**LAS VEGAS VALLEY
CONSTRUCTION SITE BEST
MANAGEMENT PRACTICES
GUIDANCE MANUAL SECTION
3.5.1 STANDARD NOTES 1-5**

- 1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHT-OF-WAY OF THE (INSERT JURISDICTION) AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIAL SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- 2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE (INSERT JURISDICTION) AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- 3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. NVR10000, SECTION III.A.5.
- 4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OR 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITY NVR10000, SECTION III.A.12.
- 5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

EXISTING UTILITY NOTE:

CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO MATCH PROPOSED FINISH GRADE ELEVATIONS.

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

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

FAST
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Underground

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1-702-432-5300
1-702-227-2829

6345 South Jones Blvd.
Suite 100
Las Vegas, NV 89119
Phone (702) 365-5912
Fax (702) 365-5917
www.lochsa.com

Lochsa Engineering

PROJECT No.: 161109
DATE: 4/25/2017
SCALE: 1"=30'
DRAWN BY: MGZ
DESIGNED BY: MGZ
CHECKED BY: JLI

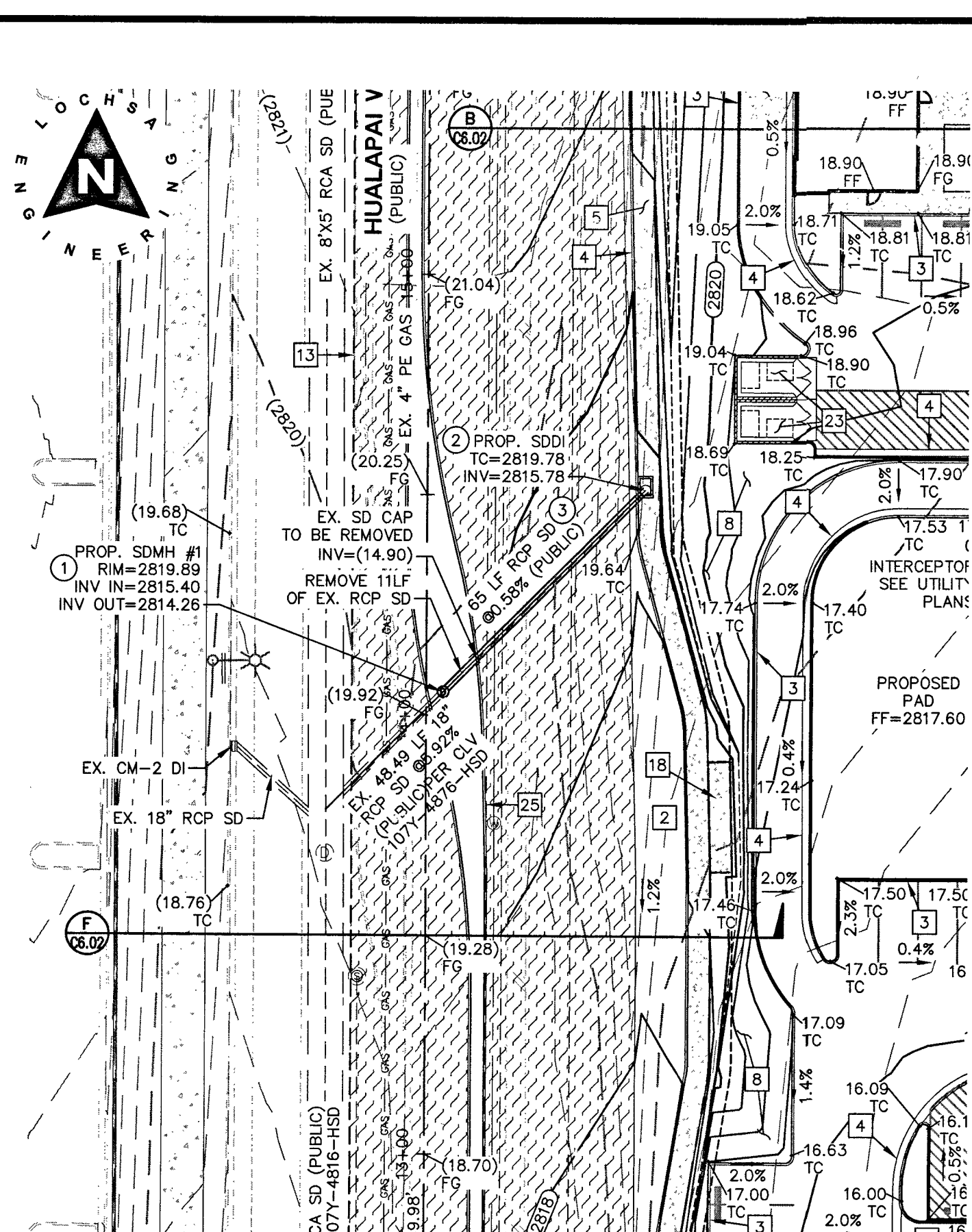
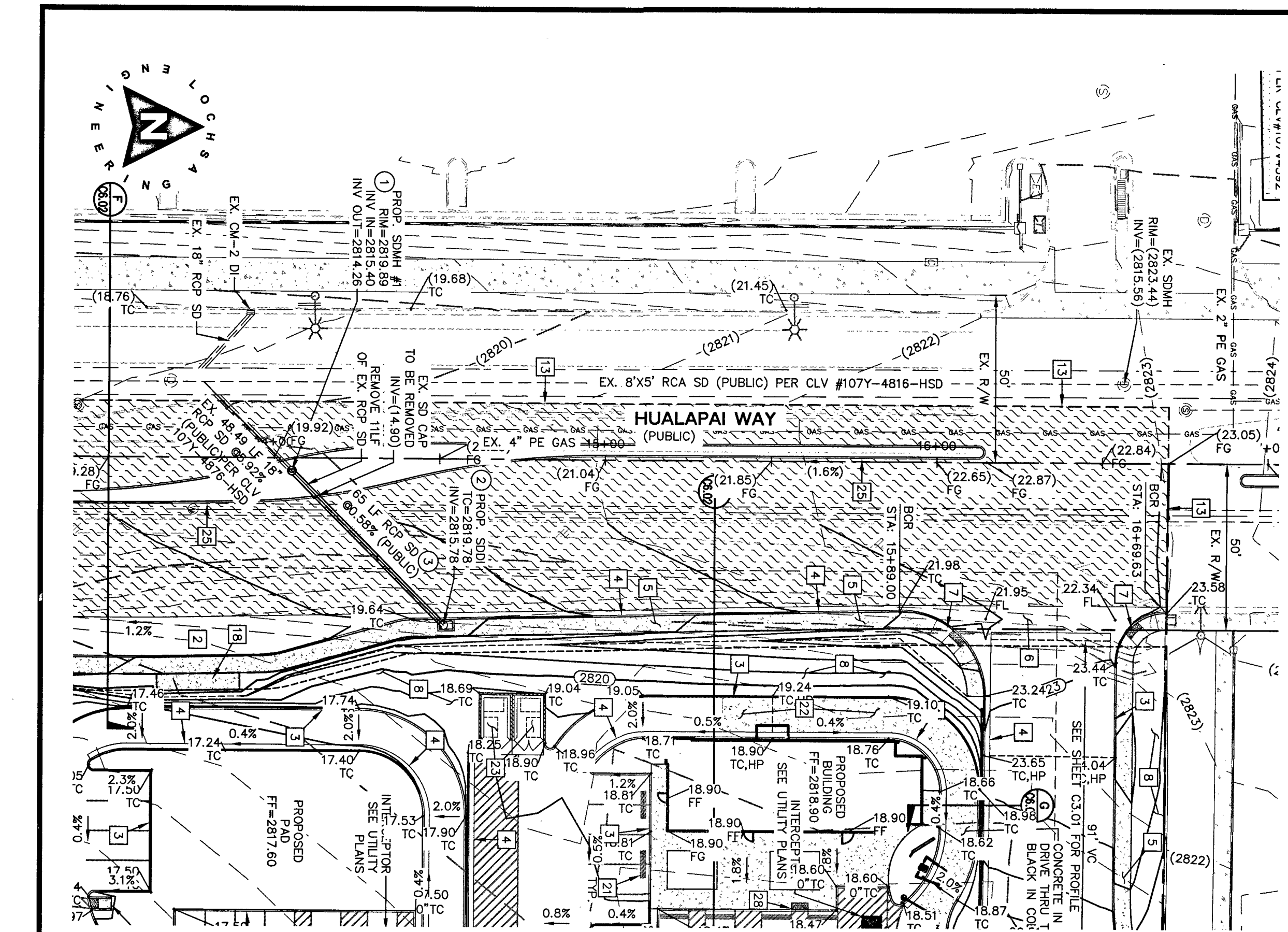
SHEET No. 9 of 15
CLV No. 89418
DATE: 5/24/2017

PLAN AND PROFILES
HUALAPAI WAY (SHEET 1 OF 2)
DEER SPRINGS AND HUALAPAI
CITY OF LAS VEGAS,
NEVADA

SEAL
Professional Engineer - State of Nevada
No. 11286
5/24/2017

SHEET No. C4.02
CLV No. 89418
DATE: 5/24/2017

17-19756



STORM DRAIN CONSTRUCTION NOTES:

- NOT ALL NOTES USED ON THIS SHEET -
- 1. INSTALL 48" TYPE 1 STORM DRAIN MANHOLE PER C.C.A.U.S.D. No. 403
- 2. CONSTRUCT 2.5" TYPE "CM2" DROP INLET PER C.C.A.U.S.D. Nos. 412.1 AND 421
- 3. RCP STORM DRAIN TO BE INSTALLED WITH JOINT GASKETS PER UDACS SECTION 2, PARAGRAPH 2.22.02-D

CONSTRUCTION NOTES:

- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
- NOT ALL NOTES USED ON THIS SHEET -
- 1. CONSTRUCT AC PAVEMENT PER DETAIL 3 ON C6.01.
- 2. CONSTRUCT TYPICAL BUS STOP PER CCAUSD #234.1
- 3. CONSTRUCT "A" TYPE CURB PER DETAIL 4 SHEET C6.01
- 4. CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
- 5. CONSTRUCT CONC. SIDEWALK PER CCAUSD No. 234.
- 6. CONSTRUCT VALLEY GUTTER PER CCAUSD No. 228
- 7. CONSTRUCT SIDEWALK RAMP CCAUSD No. 235 CASE 1.
- 8. LANDSCAPING - REFER TO LANDSCAPE PLANS FOR SPECIFICATIONS.
- 9. CONSTRUCT 2" VALLEY GUTTER PER DETAIL 8 ON C6.01
- 10. CONSTRUCT SIDEWALK DRAIN PER C.C.A.U.S.D. No. 235
- 11. CONSTRUCT MODIFIED CURB RAMP PER DETAIL 1 ON SHEET C6.01
- 12. INSTALL RIP RAP SWALES PER DETAIL 5 ON C6.01 WITH CURB CUTS PER DETAIL 6 ON C6.01
- 13. SAWCUT AND MATCH EXISTING PAVEMENT
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- 23. PROPOSED TRASH ENCLOSURE PER ARCH. PLANS
- 24. CONSTRUCT SIDEWALK RAMP PER DETAIL 15 ON C6.02
- 25. CONSTRUCT "A" TYPE ISLAND CURB PER CCAUSD #219
- 26. RETAINING WALL WITH HANDRAIL BY OTHERS.
- 27. CONSTRUCT MODIFIED CURB RAMP PER DETAIL 16 ON SHEET C6.01
- 28. INSTALL DETECTABLE WARNING (TRUNCATED DUMES) PER CCAUSD No. 235, SHEET 4.
- 29. INSTALL ENHANCED PAVEMENT PER ARCHITECTURAL DRAWING.

GENERAL GRADING NOTES:

- A. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION, THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- D. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- E. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.

FLOOD ZONE NOTE:

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY, NEVADA, AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER: 32003C1750E, EFFECTIVE DATE: SEPTEMBER 27, 2002. THE PROJECT SITE FALLS WITHIN ZONE "X" (UNSHADED), DESCRIBED BY FEMA AS: "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

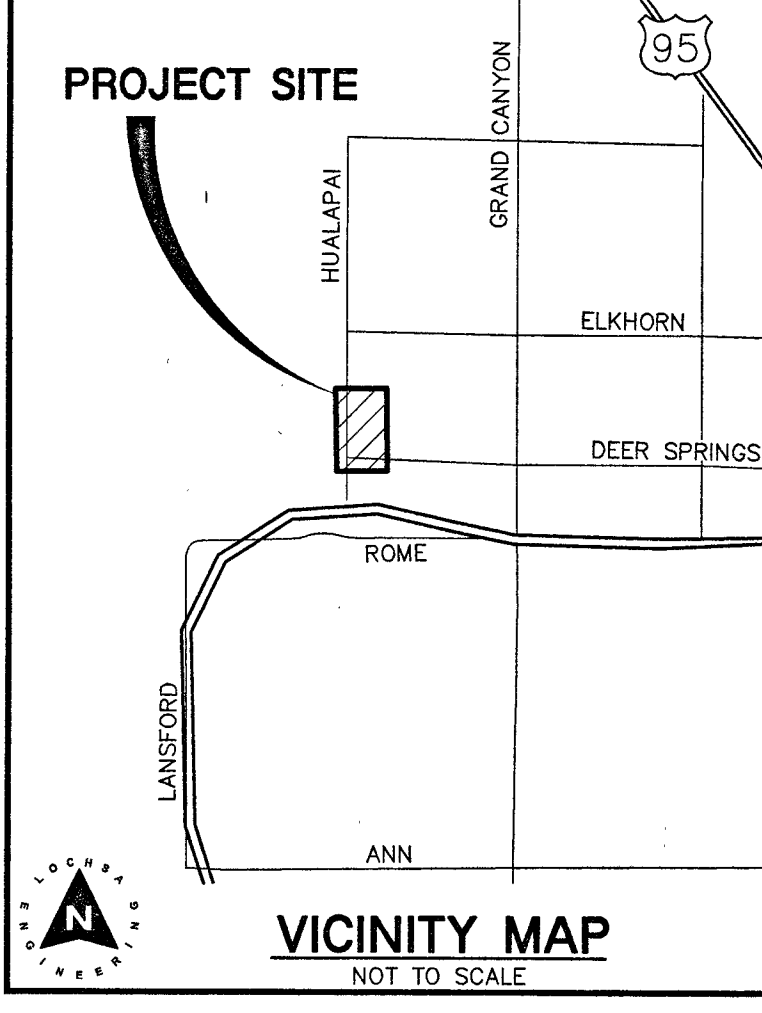
CUT	FILL	NET
19,474.46 CY	3,290.62 CY	16,183.83 CY

NOTE: CUT/FILL QUANTITIES ARE TO FINISHED GRADE & DO NOT INCLUDE MATERIAL THICKNESS, FOOTINGS, ETC.

GRADING PLAN CERTIFICATION

NAME: Joe 11260 PE # 11260 DATE: 5/24/2017

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT. DS#4857



GRADING NOTES:

- 1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- 2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL NOTIFY LOCHSA ENGINEERING WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. LOCHSA ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.
- 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY: GEOTEK, INC., PROJECT No. 13092-LV, DATED: AUGUST 31, 2016.

LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES GUIDANCE MANUAL SECTION 3.5.1 STANDARD NOTES 1-5

- 1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHT-OF-WAY OF THE (INSERT JURISDICTION) AS A RESULT OF THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIAL SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- 2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE (INSERT JURISDICTION) AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- 3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI0000, SECTION III.A.5.
- 4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OR 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI0000, SECTION III.A.12.
- 5. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

EXISTING UTILITY NOTE:

CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO MATCH PROPOSED FINISH GRADE ELEVATIONS.

NOTE:

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



FAST
before you dig
underground



Call before you Dig
Avoid hitting overhead power lines. It's costly.



PROJECT No.: 161109
DATE: 4/25/2017
SCALE: 1"=30'
DRAWN BY: MGZ
DESIGNED BY: MGZ
CHECKED BY: JLI

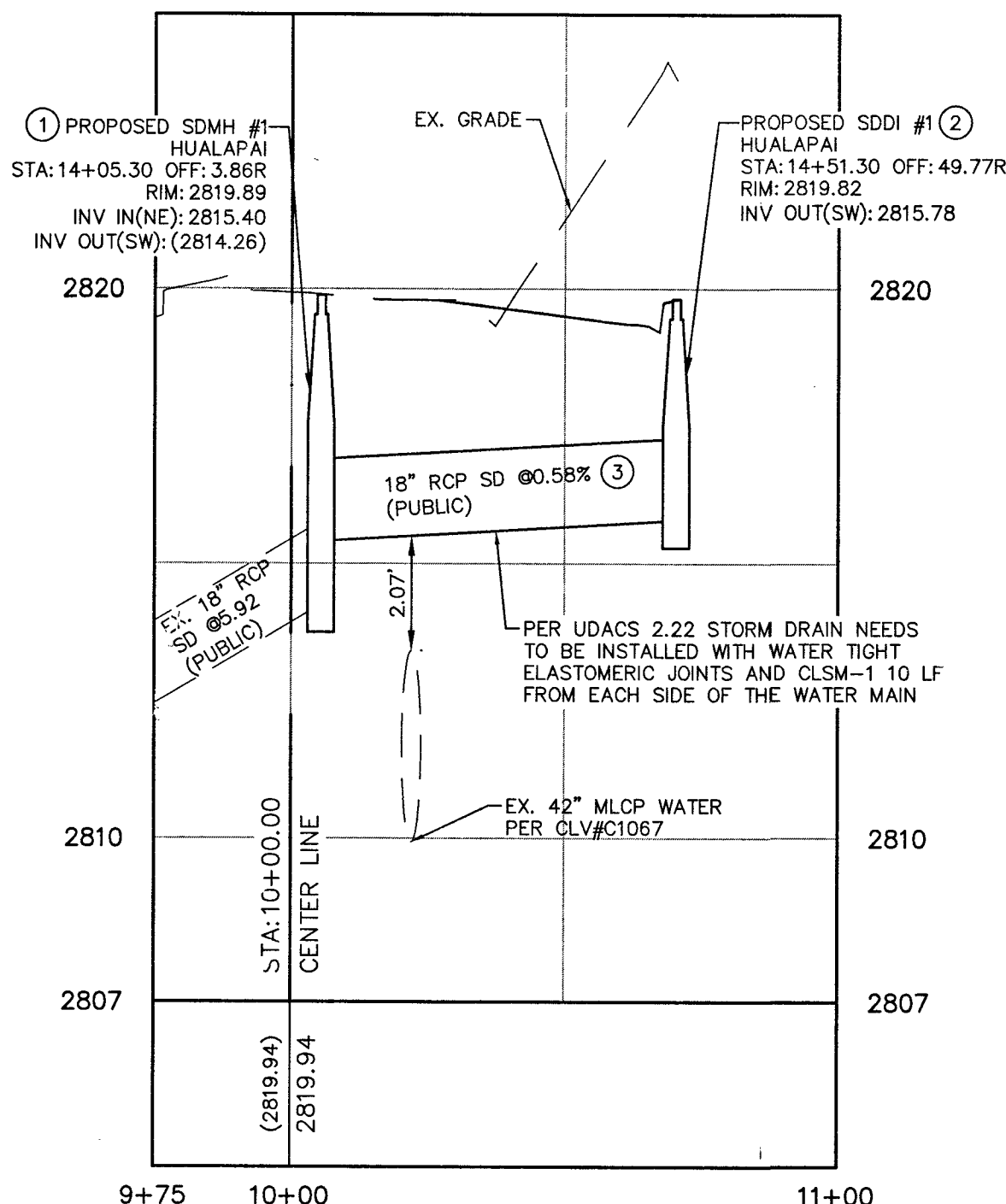
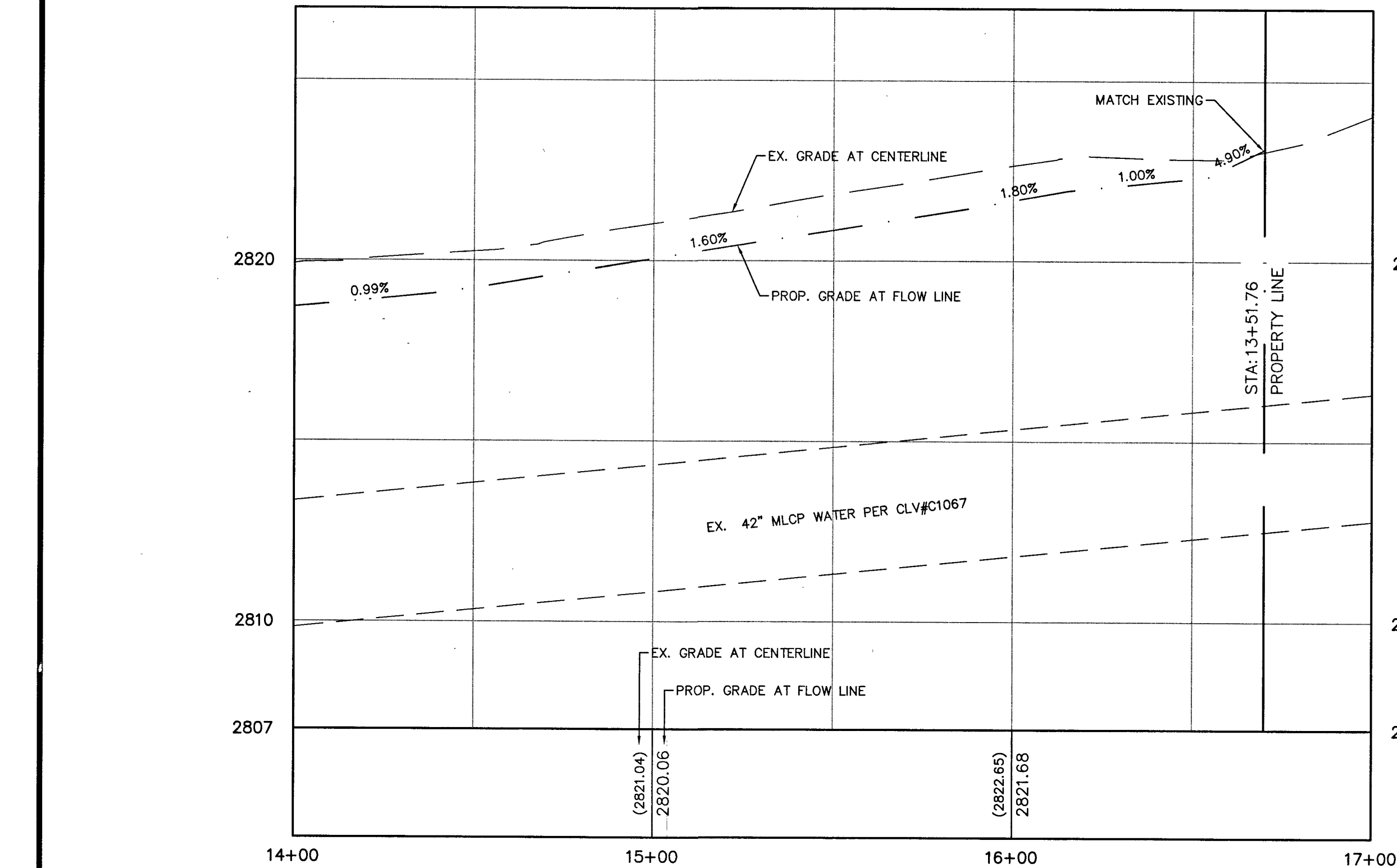
107506
C4.03
SHEET 10 OF 15
69418
HTE No. 17-19756

PLAN AND PROFILES
HUALAPAI WAY (SHEET 2 OF 2)

DEER SPRINGS AND HUALAPAI
CITY OF LAS VEGAS,
NEVADA

Lochsa
engineering

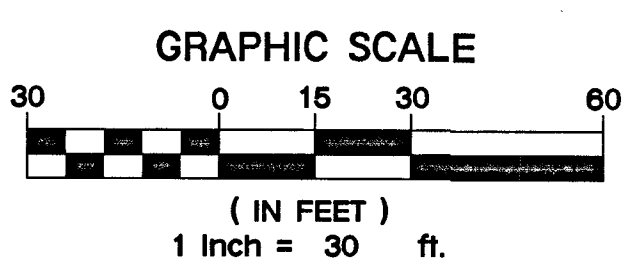
6945 South Jones Blvd.
Suite 100
Las Vegas, NV 89118
Tel: (702) 366-5817
Fax: (702) 366-5817
www.lochsa.com



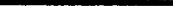
A.P.N.:

125-19-202-006
BASIS OF BEARINGS:
SOUTH 89°47'00" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., ALSO BEING THE CENTERLINE OF CENTENNIAL PARKWAY AS MEASURED BETWEEN HUALAPAI WAY AND CONQUISTADOR STREET AS SHOWN ON FILE 107, PAGE 31 OF SURVEYS IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK:
RIVET & PLATE IN TOP OF CURB AT THE SOUTHEAST CORNER OF THE BRIDGE OVER CLARK COUNTY HIGHWAY 215 ON HUALAPAI. ELEVATION - 853.317 (METERS) / 2799.59 (U.S. SURVEY FEET) NORTH AMERICAN VERTICAL DATUM OF 1988

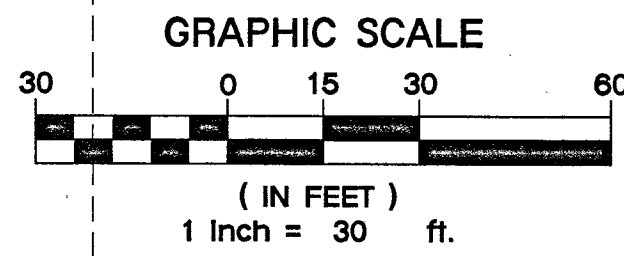
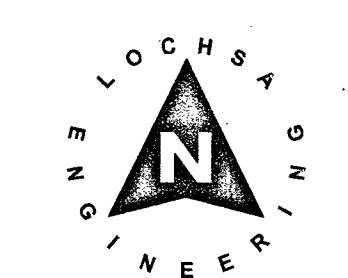
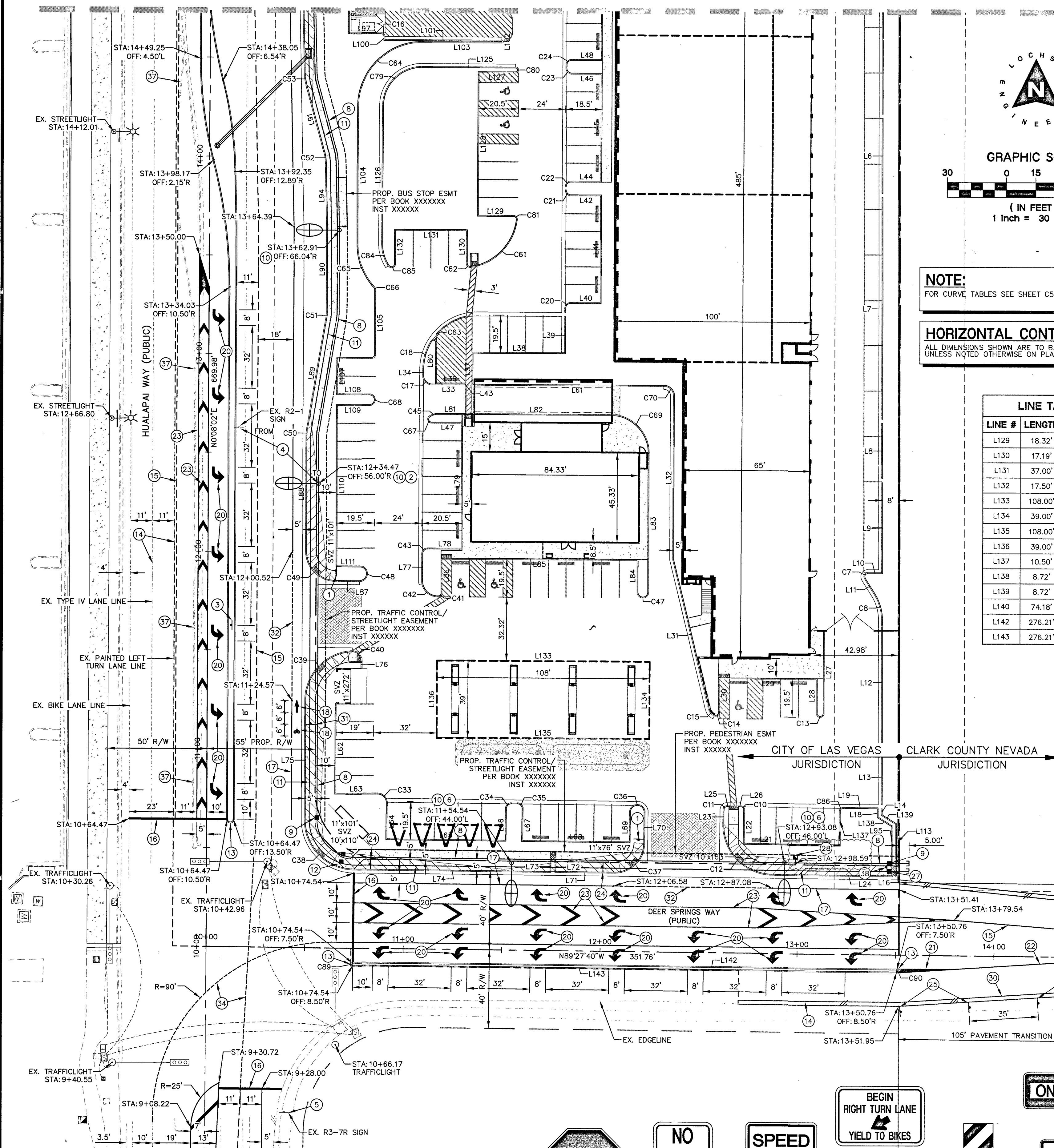


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LEGEND	CL OR SURVEY LINE	_____	EASEMENT LINE	_____	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURB
	PROPERTY LINE	- - - - -	SAWCUT LINE		EXISTING:	--(2210)--			
	ROW LINE	_____	SCARP LINE		PROPOSED:	<u>(2122)</u>			

5/28/2017 8:31 AM
C:\Users\jli\Documents\161109-2017-04-25.dwg

FOR CONTINUATION SEE SHEET C5.02



NOTE:
FOR CURVE TABLES SEE SHEET C5.02

HORIZONTAL CONTROL NOTE:
ALL DIMENSIONS SHOWN ARE TO BACK OF CURB
UNLESS NOTED OTHERWISE ON PLANS.

LINE TABLE		
LINE #	LENGTH	DIRECTION
L129	18.32'	S89°51'58"E
L130	17.19'	N00°08'02"E
L131	37.00'	S89°51'58"E
L132	17.50'	N00°08'02"E
L133	108.00'	S89°51'58"E
L134	39.00'	N00°08'02"E
L135	108.00'	S89°51'58"E
L136	39.00'	N00°08'02"E
L137	10.50'	S00°32'20"W
L138	8.72'	S58°12'30"E
L139	8.72'	S58°12'30"E
L140	74.18'	N00°08'02"E
L142	276.21'	S89°27'40"E
L143	276.21'	S89°27'40"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	69.12'	N89°25'32"W
L2	107.91'	N89°25'32"W
L3	8.42'	N00°08'02"E
L4	6.63'	N89°56'46"E
L5	136.41'	S00°03'14"E
L6	38.00'	S00°03'14"E
L7	112.52'	S00°03'14"E
L8	28.00'	S00°03'14"E
L9	46.07'	S00°03'14"E
L10	7.50'	S89°56'46"W
L11	9.39'	N31°51'09"W
L12	63.25'	S00°03'14"E
L13	28.00'	S00°03'14"E
L14	3.07'	S00°03'14"E
L15	11.86'	N89°25'32"W
L16	1.25'	N89°27'40"W
L17	3.57'	S89°51'58"E
L18	4.48'	S00°03'14"E
L19	17.25'	S89°27'40"E
L20	15.92'	S00°08'02"W

LINE TABLE		
LINE #	LENGTH	DIRECTION
L21	22.55'	N89°27'40"W
L22	17.50'	S00°32'20"W
L23	7.50'	S00°32'20"W
L24	60.51'	N89°27'40"W
L25	1.00'	S89°27'40"E
L26	1.00'	S89°27'40"E
L27	41.53'	N00°08'02"E
L28	17.50'	N00°08'02"E
L29	50.00'	S89°51'58"E
L30	17.28'	N00°08'02"E
L31	77.71'	S13°34'50"E
L32	82.69'	N00°08'02"E
L33	16.50'	S89°51'58"E
L34	2.62'	N00°08'02"E
L35	7.00'	S89°51'58"E
L36	15.00'	S89°51'58"E
L37	15.62'	N00°08'02"E
L38	47.00'	S89°51'58"E
L39	19.00'	N00°08'02"E
L40	15.50'	N89°51'58"W

LINE TABLE		
LINE #	LENGTH	DIRECTION
L41	55.00'	N00°08'02"E
L42	15.50'	N89°51'58"W
L43	0.14'	S00°08'02"W
L44	15.50'	N89°51'58"W
L45	55.00'	N00°08'02"E
L46	15.50'	N89°51'58"W
L47	15.32'	S89°51'58"E
L48	15.50'	N89°51'58"W
L49	55.00'	N00°08'02"E
L50	15.50'	N89°51'58"W
L51	1.50'	N00°08'02"E
L52	15.50'	N89°51'58"W
L53	55.00'	N00°08'02"E
L54	15.50'	N89°51'58"W
L55	1.50'	N00°08'02"E
L56	15.50'	N89°51'58"W
L57	55.00'	N00°08'02"E
L58	16.50'	N89°51'58"W
L59	1.10'	N00°08'02"E
L60	95.23'	N89°25'32"W

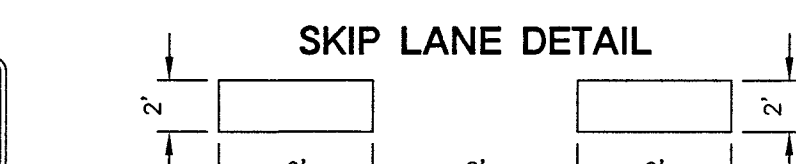
LINE TABLE		
LINE #	LENGTH	DIRECTION
L61	96.95'	S89°51'58"E
L62	45.99'	N00°08'02"E
L63	21.60'	N89°51'58"W
L64	18.63'	S00°32'20"W
L65	61.00'	N89°27'40"W
L66	16.50'	S00°32'20"W
L67	16.50'	S00°32'20"W
L68	55.00'	N89°27'40"W
L69	15.50'	S00°32'20"W
L70	15.50'	S00°32'20"W
L71	29.50'	N89°27'40"W
L72	5.00'	S00°32'20"W
L73	5.00'	S00°32'20"W
L74	99.54'	N89°27'40"W
L75	60.10'	N00°08'02"E
L76	4.00'	S00°08'32"W
L77	13.75'	N00°08'02"E
L78	17.50'	S89°51'58"E
L79	68.00'	N00°08'02"E
L80	20.98'	N00°08'02"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L81	12.00'	S89°51'58"E
L82	74.83'	S89°51'58"E
L83	69.75'	N00°08'02"E
L84	16.50'	N00°08'02"E
L85	100.00'	S89°51'58"E
L86	17.49'	N00°08'02"E
L87	12.00'	S89°51'58"E
L88	57.38'	N00°08'02"E
L89	56.69'	S09°35'46"W
L90	42.55'	N00°08'02"E
L91	35.01'	N15°11'39"W
L92	146.67'	N01°08'21"W
L93	75.81'	N89°25'00"W
L94	31.92'	N01°08'21"W
L96	17.50'	S89°51'58"E
L97	16.67'	S89°51'58"E
L98	15.12'	S89°51'58"E
L99	20.00'	N00°08'02"E
L100	1.83'	S00°08'02"W
L101	59.83'	S89°51'58"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L102	0.50'	S00°08'02"W
L103	40.50'	S89°51'58"E
L104	70.00'	N00°08'02"E
L105	32.42'	N00°08'02"E
L106	74.18'	N00°08'02"E
L107	19.00'	N00°08'02"E
L108	16.50'	S89°51'58"E
L109	16.50'	S89°51'58"E
L110	82.00'	N00°08'02"E
L111	12.00'	S89°51'58"E
L112	46.00'	S89°51'58"E
L114	10.90'	N89°25'32"W
L116	17.12'	N00°08'02"E
L118	16.35'	N00°08'02"E
L119	4.03'	S00°08'02"W
L121	54.00'	S00°08'02"W
L125	47.50'	S89°51'58"E
L126	70.00'	N00°08'02"E
L127	19.00'	S89°51'58"E
L128	73.00'	N00°08'02"E

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

BY: *[Signature]* DATE: 6-26-17
ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED
TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION
OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS, OR
THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



A.P.N.:
125-19-202-006
BASIS OF BEARINGS:
SOUTH 89°47'00" EAST, BEING THE BEARING OF THE SOUTH
LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 19,
TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., ALSO BEING THE
CENTERLINE OF CENTENNIAL PARKWAY AS MEASURED
BETWEEN HUALAPAI WAY AND CONQUISTADOR STREET AS
SHOWN ON FILE 107, PAGE 31 OF SURVEYS IN THE
RECORDERS' OFFICE, CLARK COUNTY, NEVADA.
BENCHMARK:
RIVER & PLATE TOP OF CURB AT THE SOUTHEAST
CORNER OF THE BRIDGE OVER CLARK COUNTY HIGHWAY
215 ON HUALAPAI. ELEVATION - 853.317 (METERS) /
2799.59 (U.S. SURVEY FEET) NORTH AMERICAN VERTICAL
DATUM OF 1988

NOTE:
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR
EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES
SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE
INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO
FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES,
INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY
SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND
IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF
CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE
CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S
REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

Call before you Dig
Avoid cutting underground
utility lines. It's costly.
FAST
Call before you Dig
Underground
1-800-227-2800
1-702-432-5300
1-702-227-2929

100W HPS
STREETLIGHTS
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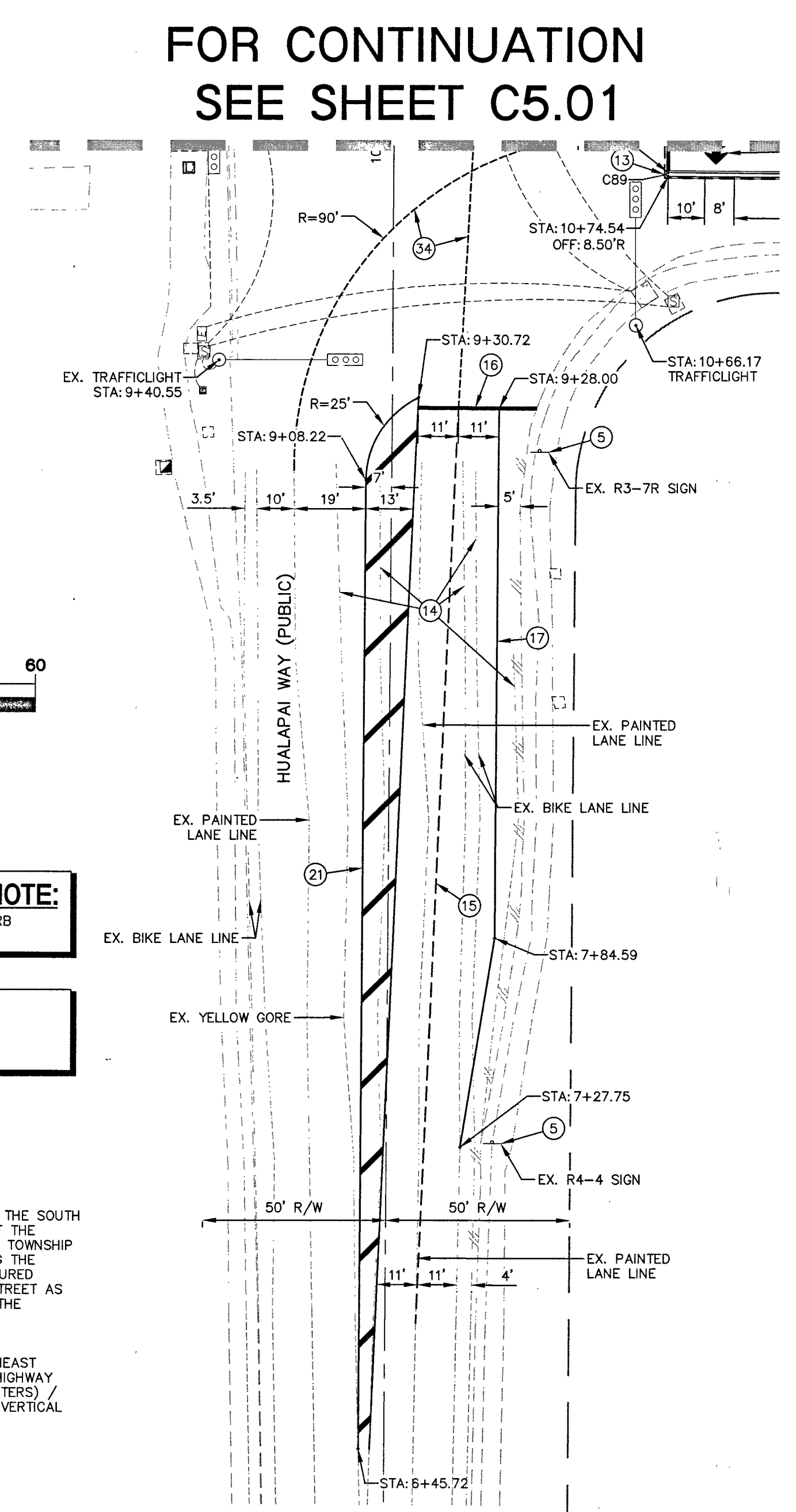
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ROW LINE
EASEMENT LINE
SAWCUT LINE
SCARP LINE
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EXISTING:
PROPOSED:
CONTOUR LINES
EDGE OF PAVEMENT
"A" TYPE CURBS
"L" TYPE CURBS
WALLS
FENCES
AC PAVEMENT
CONCRETE
SPOT
ELEVATIONS
SIGNS
MANHOLE W/
DESCRIPTION
MANHOLE DESCRIPTIONS
FIRE HYDRANTS
GATE VALVES
REDUCERS
CLEAN OUTS
UTILITY BOX
OR VAULT
BACKWATER
VALVES
150W HPS
STREETLIGHTS
200W HPS
STREETLIGHTS
250W HPS
STREETLIGHTS

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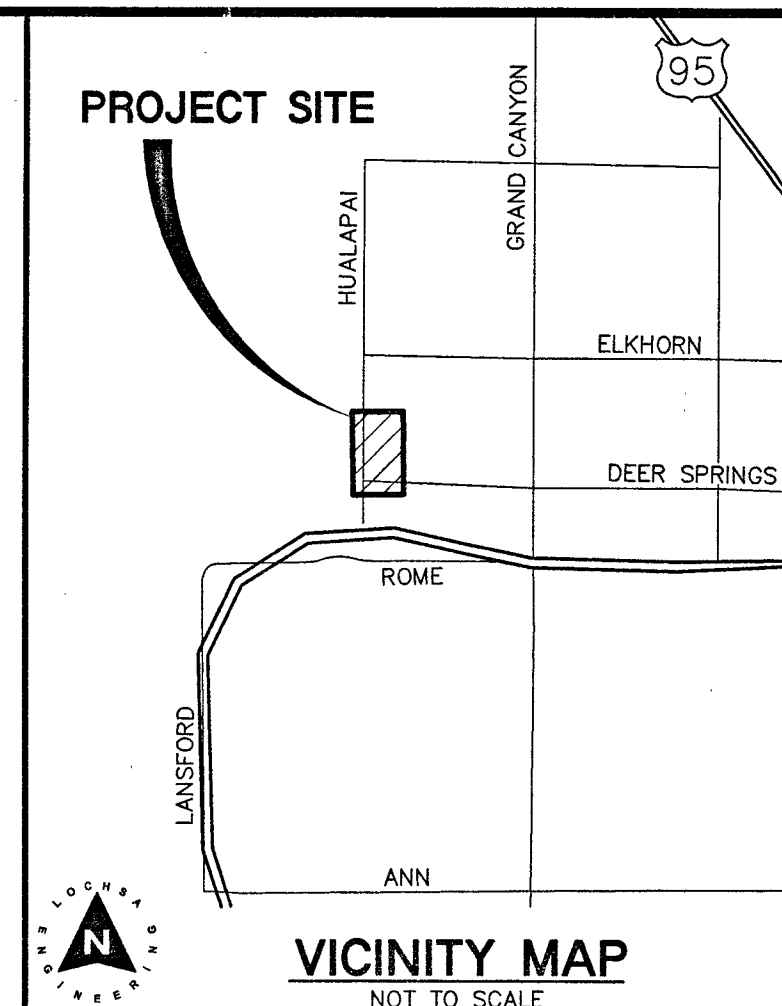
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EDGE OF PAVEMENT
"A" TYPE CURBS
"L" TYPE CUR



CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C64	51.05'	32.50'	090°00'00"	32.50'
C65	23.84'	32.50'	042°01'29"	12.48'
C66	1.83'	2.50'	042°01'29"	0.96'
C73	5.53'	14.50'	021°51'25"	2.80'
C73	5.53'	14.50'	021°51'25"	2.80'
C75	12.90'	22.50'	032°50'23"	6.63'
C75	12.90'	22.50'	032°50'23"	6.63'
C79	30.63'	19.50'	090°00'00"	19.50'
C80	3.14'	1.00'	180°00'00"	INFINITY
C81	2.53'	1.50'	096°44'13"	1.69'
C84	11.42'	19.53'	033°33'26"	5.88'
C85	3.83'	1.50'	146°26'34"	4.97'
C86	2.36'	1.50'	090°00'00"	1.50'
C87	24.47'	15.50'	090°26'26"	15.62'
C88	43.45'	27.50'	031°31'29"	27.75'



- 7 - ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (CCAUSD)" LATEST EDITION.
- ① INSTALL 36" R1-1 SIGN
- ② INSTALL R7-1A SIGN (18"x24")
- ③ INSTALL R6-1R SIGN (36"x12")
- ④ RELOCATE EX. R2-1 SIGN
- ⑤ REMOVE EXISTING SIGNS
- ⑥ INSTALL R3-17 SIGN (24"x18") W/ R3-17B SIGN (24"x18")
- ⑦ INTERCEPT EX. CONDUIT AND REPUCC CONDUCTORS
- ⑧ INSTALL 12" PVC CONDUIT W/ (2)#4 CONDUCTORS AND (1)#9 CONDUCTORS
- ⑨ INSTALL NO 3/4 PULLBOX PER CCAUSD 326
- ⑩ INSTALL LED FIXTURE CA22-LE-160 LA-AW-UMIV-BLP PER TOWN CENTER STANDARDS
- ⑪ INSTALL 4" FAST INTERCONNECT CONDUIT W/ (1)#8 BARE WIRE
- ⑫ P30 PULLBOX (REFER TO TRAFFIC SIGNAL PLAN)
- ⑬ INSTALL YELLOW PAINTED MEDIAN NOSE MARKINGS PER CCAUSD 248
- ⑭ OBLITERATE EX. STRIPING
- ⑮ INSTALL TYPE IV LANE LINE (RPM) PER CCAUSD 244.1
- ⑯ INSTALL TYPE II FILM WHITE 24" WIDE STOP BAR
- ⑰ INSTALL WHITE TYPE II FILM 6" WIDE BIKE LANE LINE
- ⑱ INSTALL WHITE TYPE II FILM BIKE PAVEMENT MARKINGS
- ⑲ INSTALL LEFT TURN LANE LINE PER CCAUSD 246
- ⑳ INSTALL WHITE TYPE II FILM PAVEMENT MARKING
- ㉑ INSTALL YELLOW PAINTED GORE AREA PER CCAUSD 245
- ㉒ INSTALL TYPE I CENTERLINE (RPM) PER CCAUSD 244
- ㉓ INSTALL WHITE PAINTED GORE AREA PER CCAUSD 245
- ㉔ INSTALL R3-7R SIGN (36"x36")
- ㉕ INSTALL QM3-R SIGN (12"x48")
- ㉖ INSTALL R3-4 SIGN (24"x24")
- ㉗ INSTALL P30 PULLBOX PER CCAUSD 761
- ㉘ INSTALL 200 AMP SERVICE PEDESTAL PER CCAUSD 330,331 & 332
- ㉙ INSTALL 6" WHITE PAINTED EDGE LINE
- ㉚ INSTALL 8" WHITE PAINTED EDGE LINE
- ㉛ INSTALL R3-17 SIGN (24"x18")
- ㉜ INSTALL TYPE II FILM SINGLE SKIP LANE LINE PER DETAIL
- ㉝ INSTALL 6" WIDE PAINTED GORE LINE
- ㉞ INSTALL WHITE CAT TRACKS (RPM)
- ㉟ INSTALL YELLOW TYPE II FILM AREA
- ㊱ INSTALL WHITE TYPE II FILM AREA
- ㊲ EXISTING ISLAND MEDIAN TO BE REMOVED

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

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 Avoid cutting underground utility lines. It's costly.

CALL
811

Call before you Underground

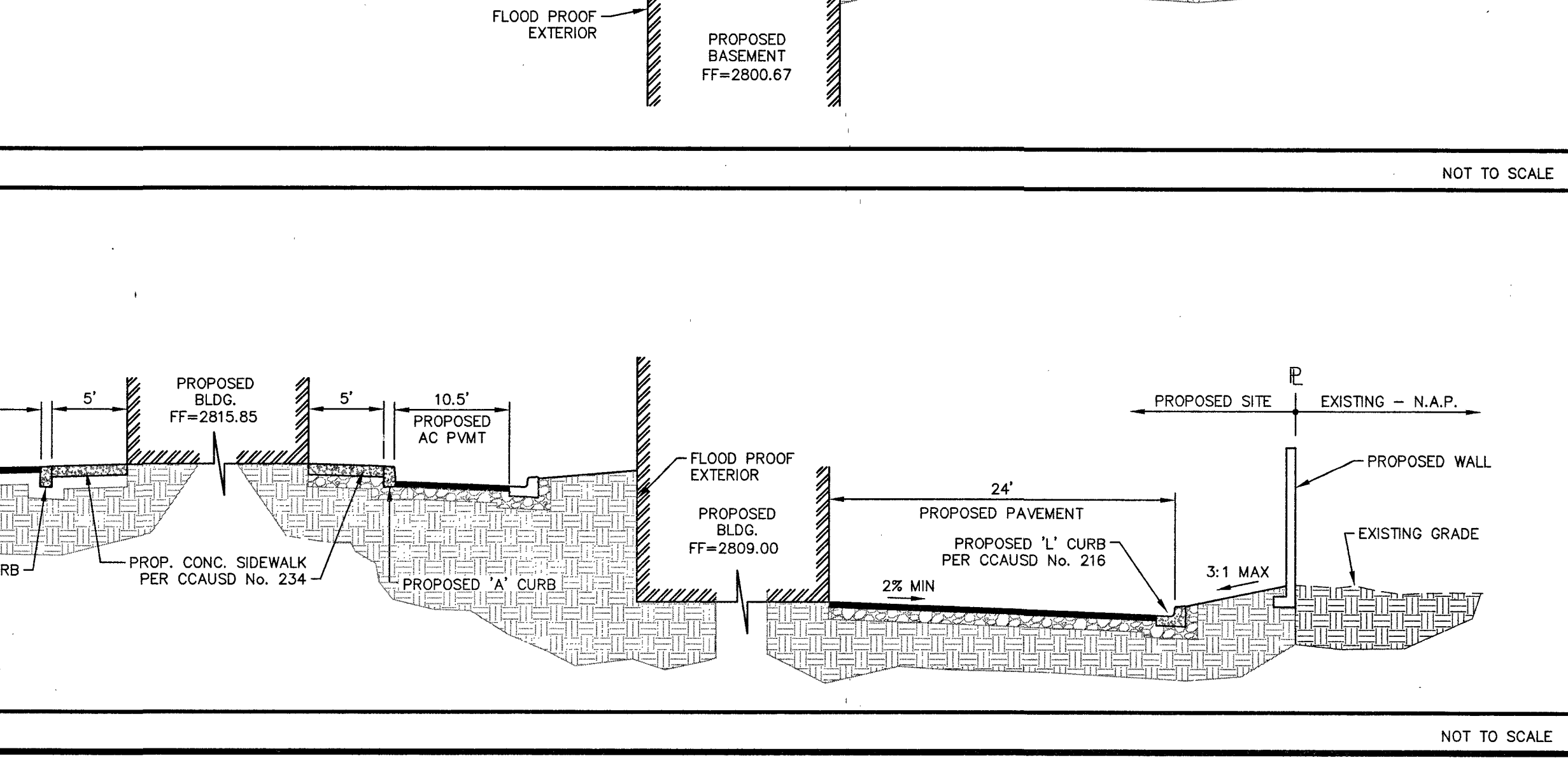
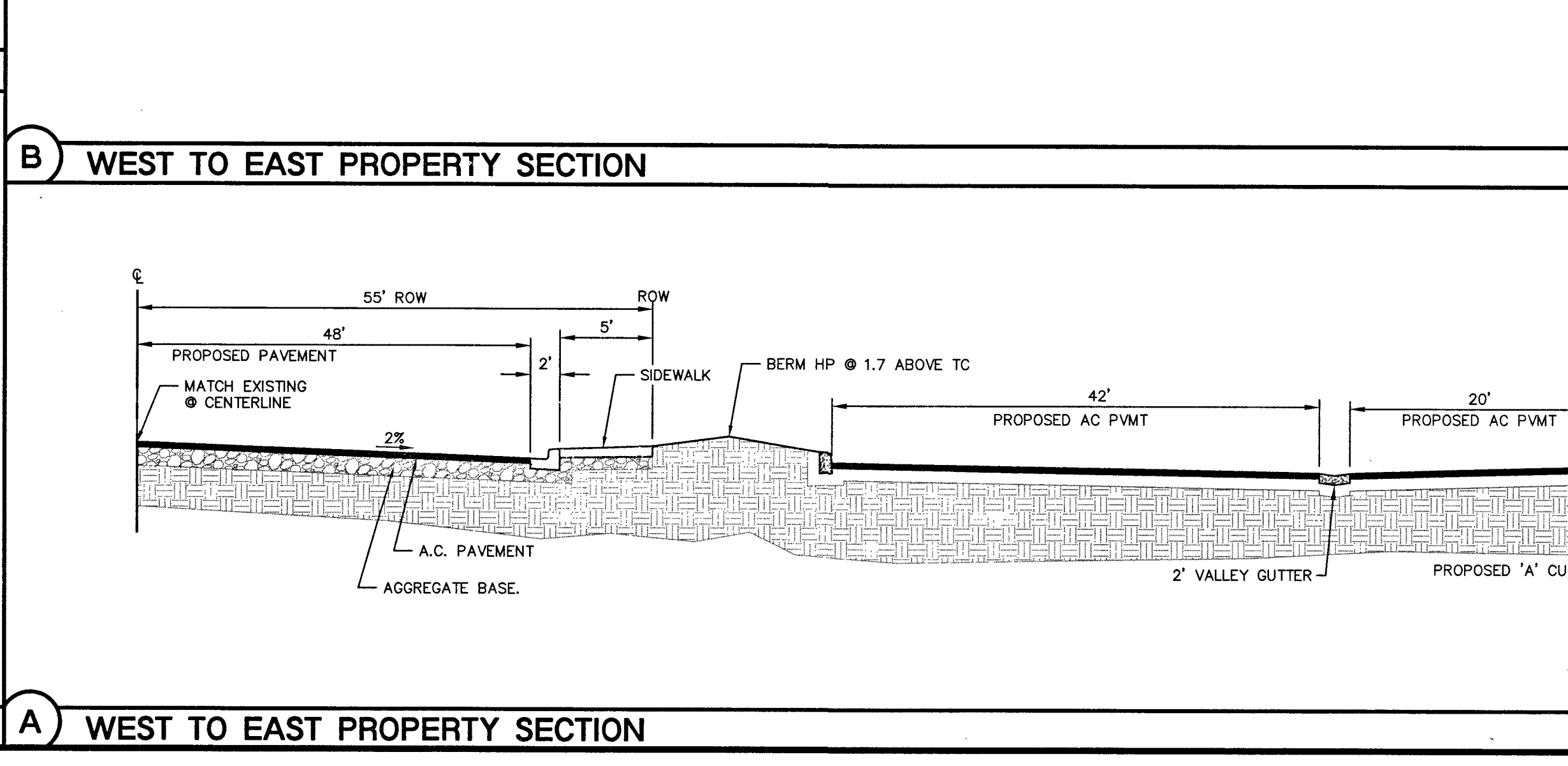
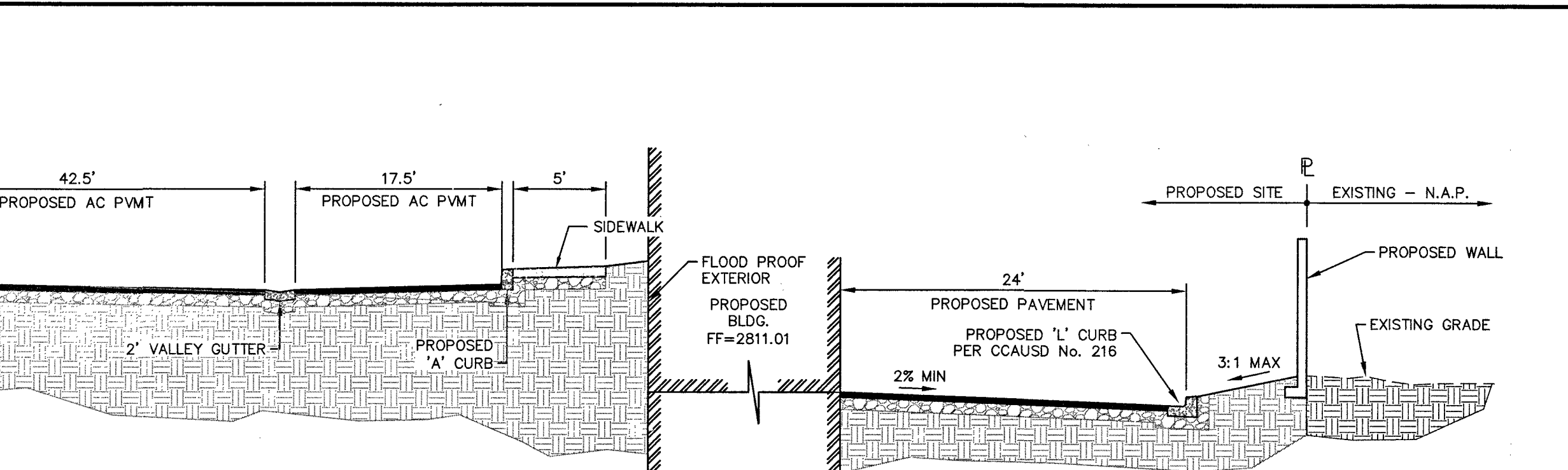
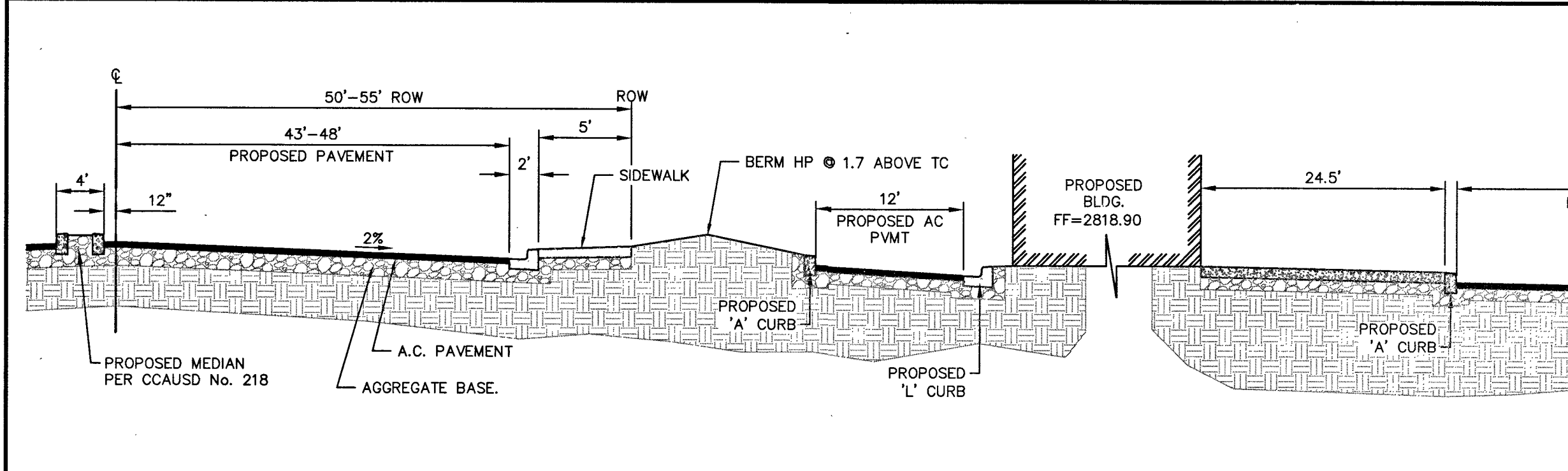
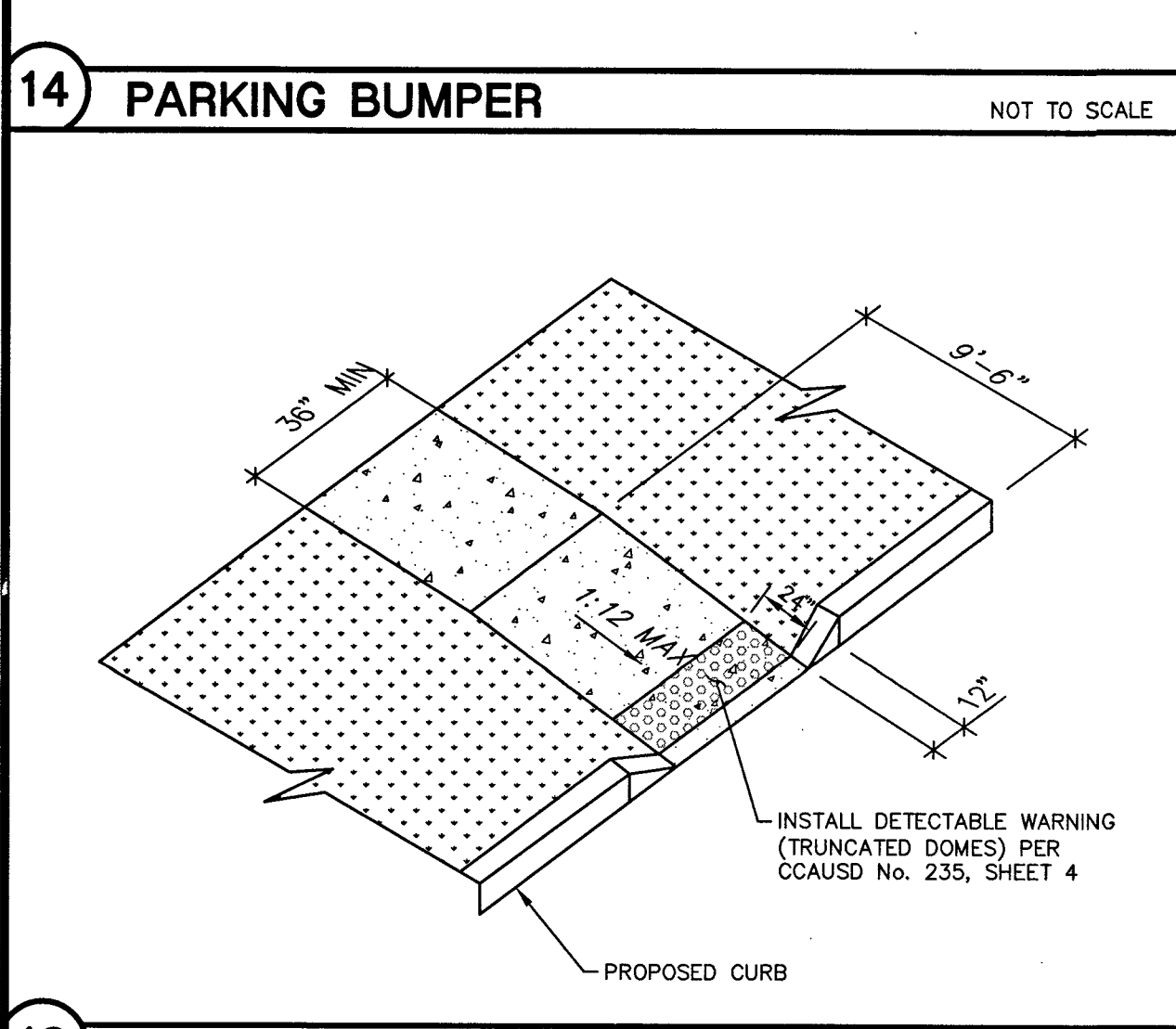
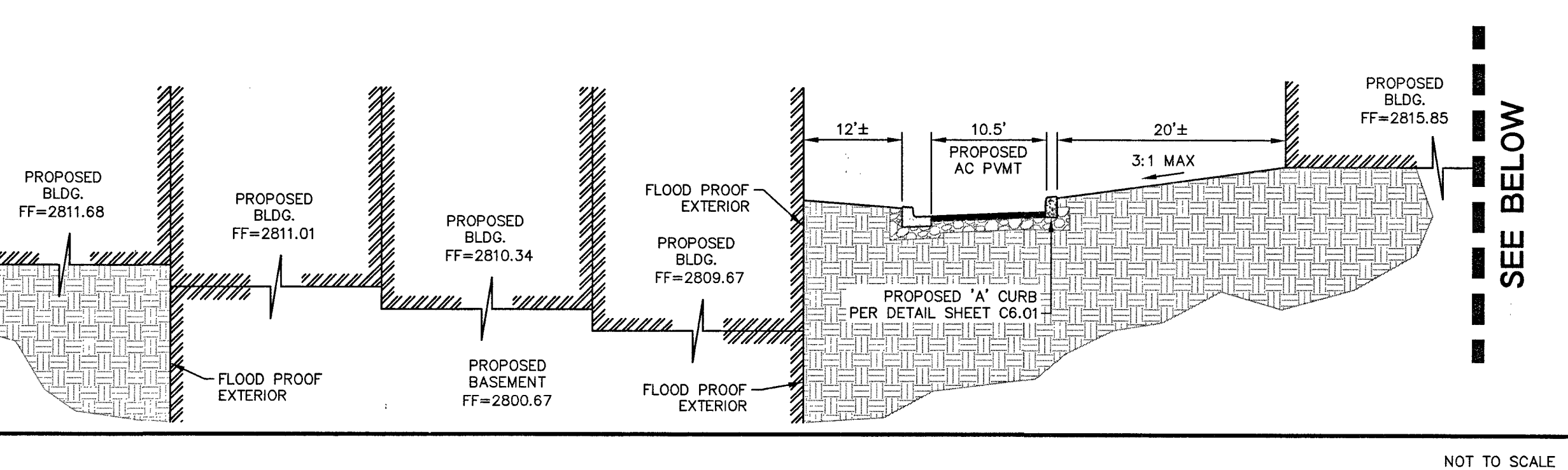
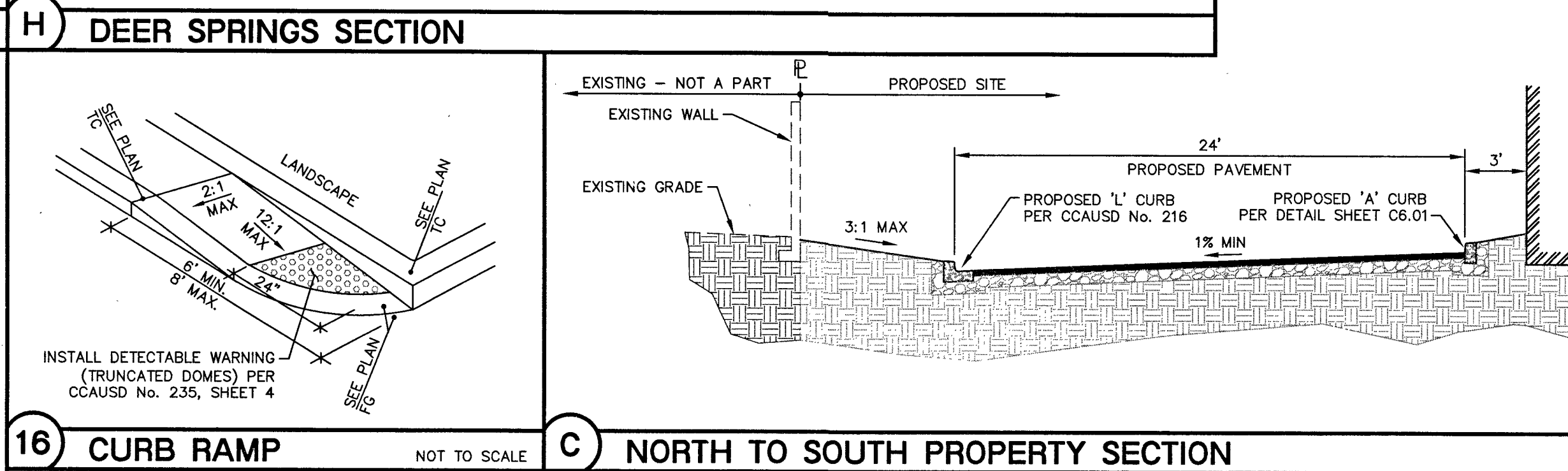
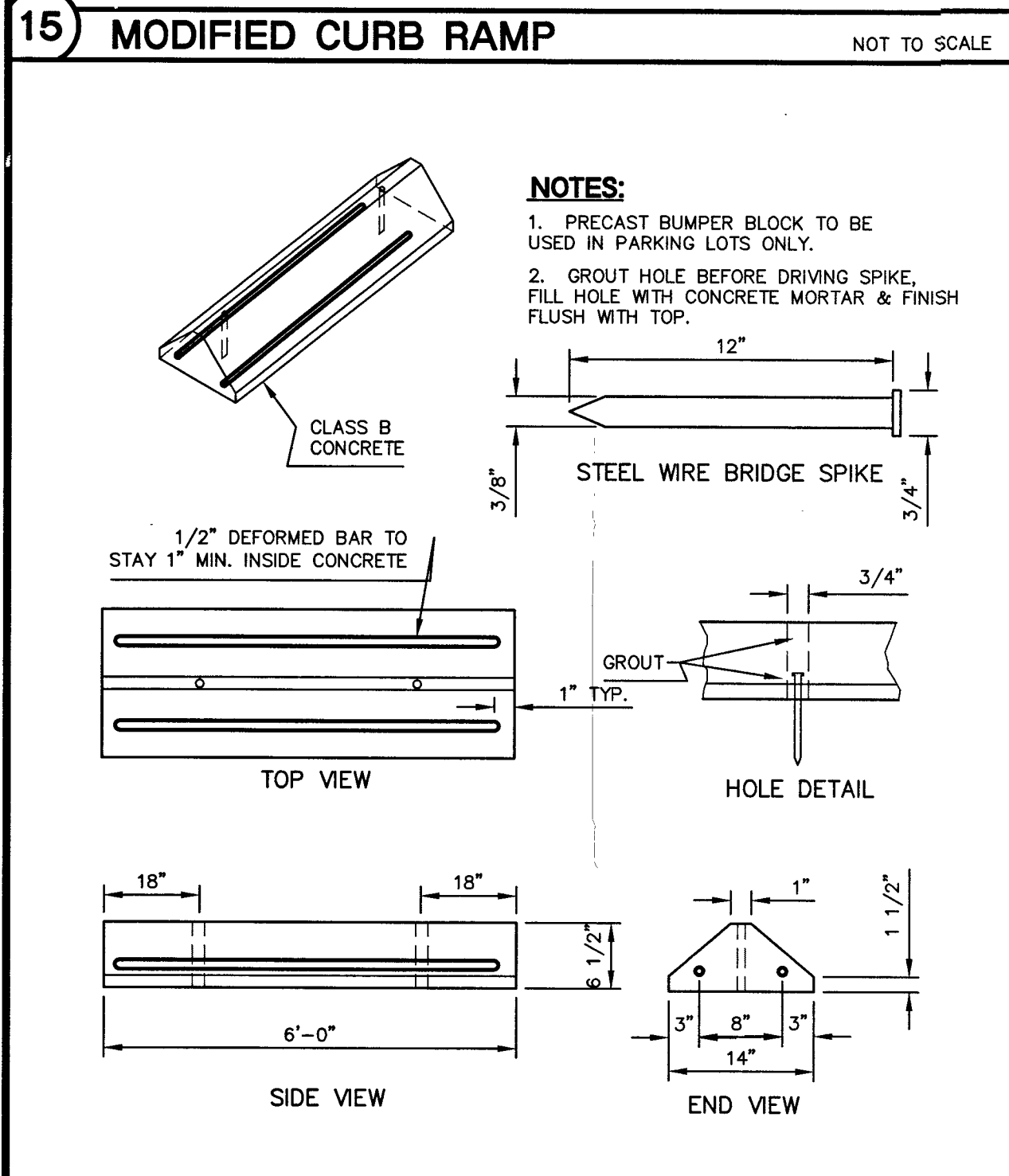
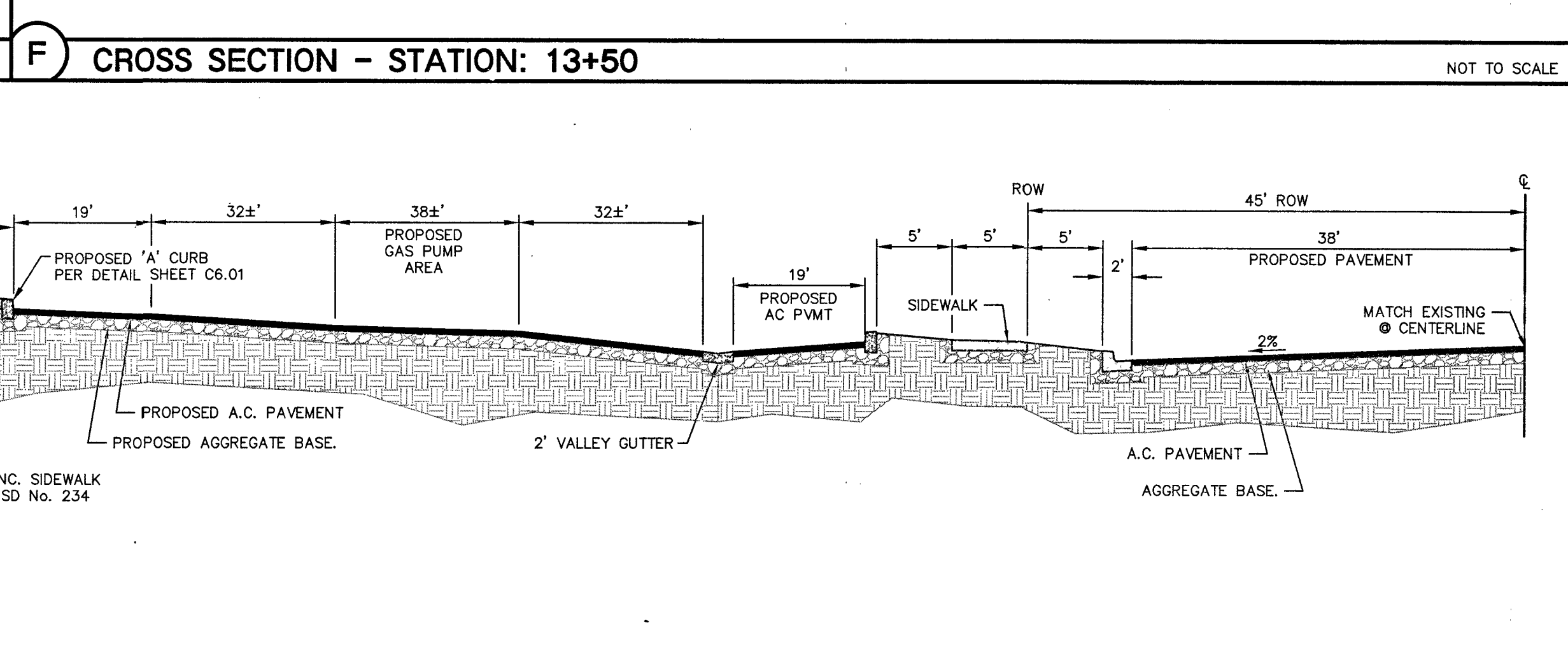
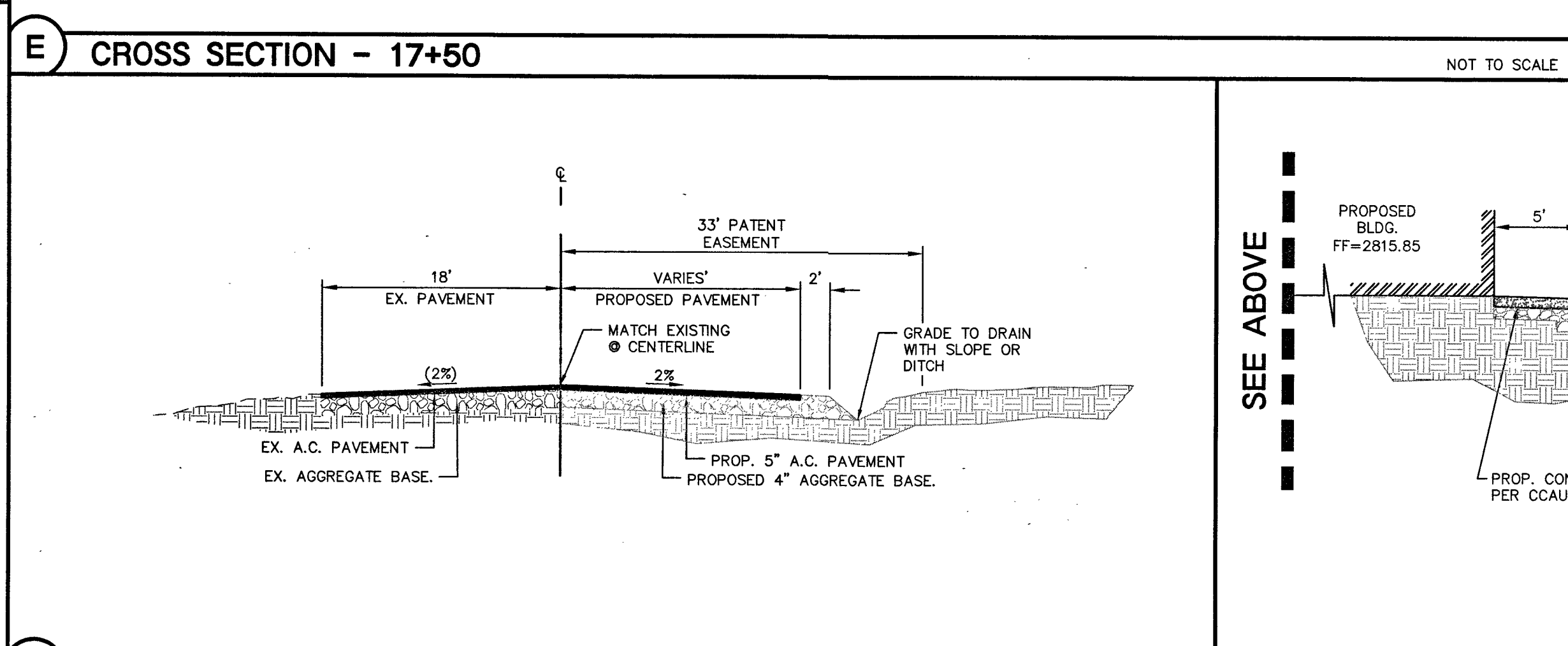
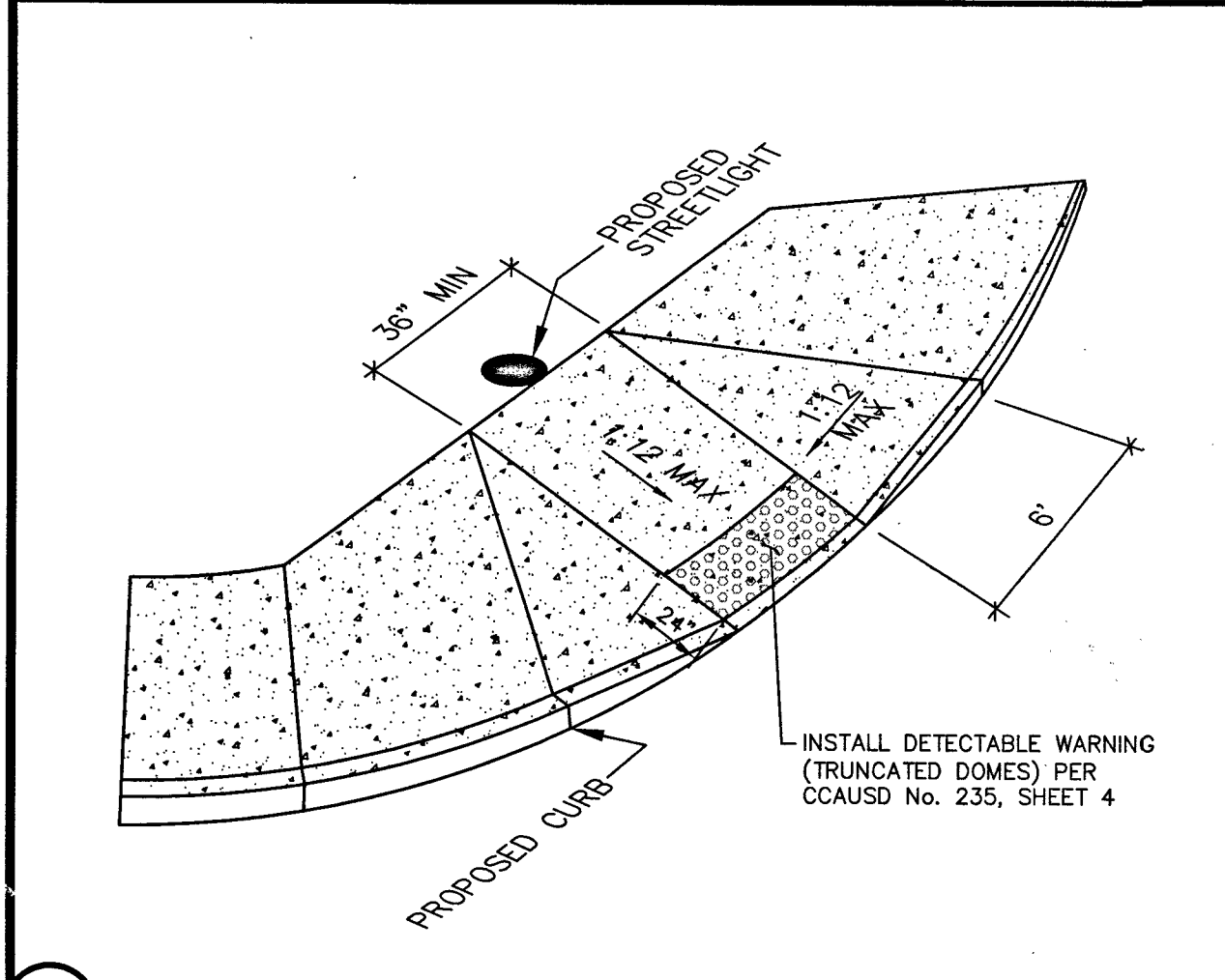
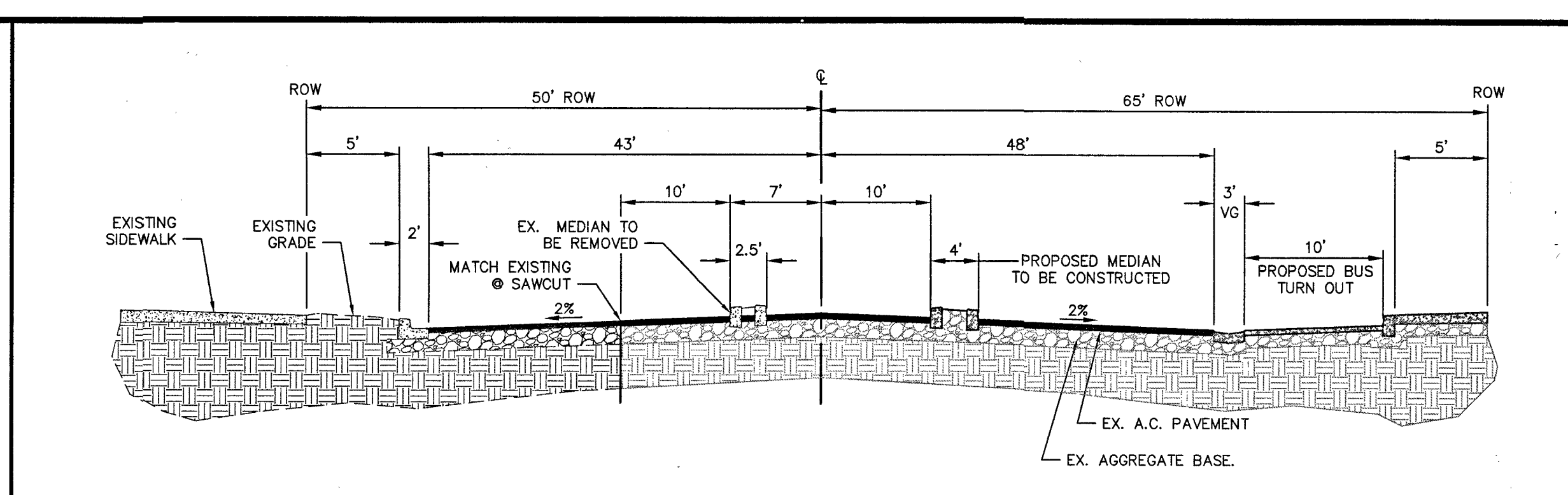
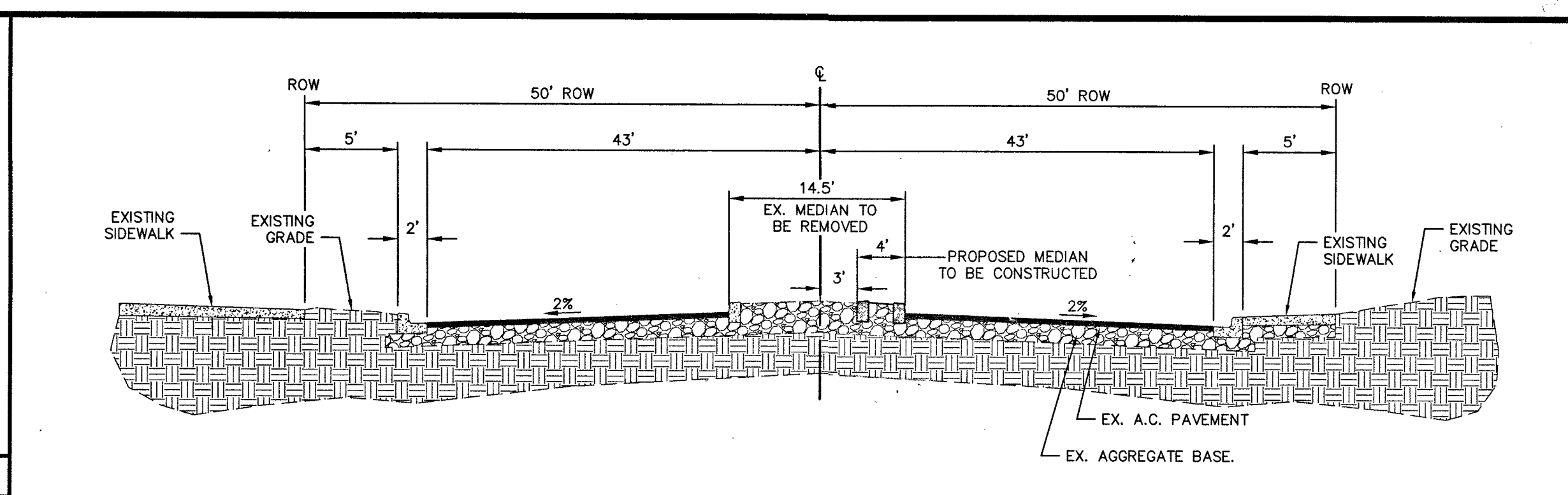
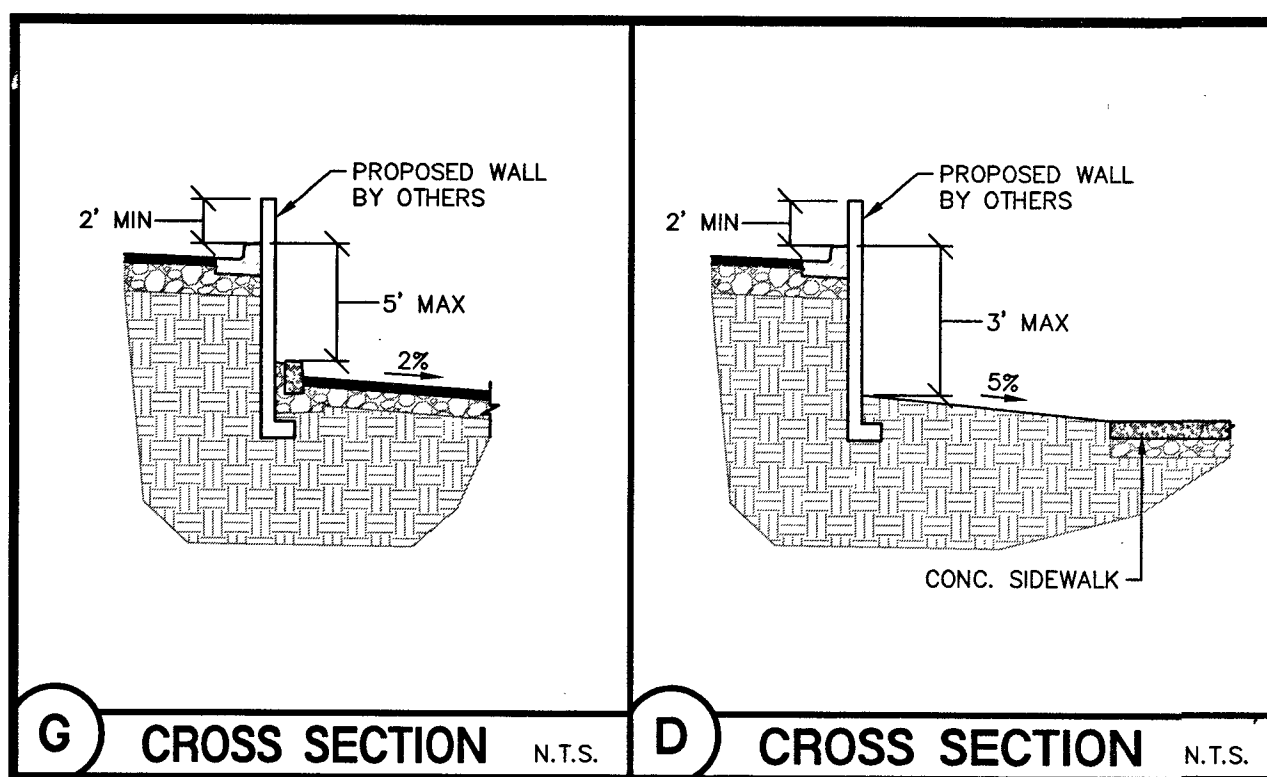
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OVERHEAD

	CHECKED BY: JLI	DESIGNED BY: MGZ	DRAWN BY: MGZ	SCALE: 4/25/2017	DATE: 161109	PROJECT No.:	TITLE: DEER SPRINGS AND HUALAPAI CITY OF LAS VEGAS, NEVADA	SHEET No. 69418 CLV No. 12 of 15 C5.02	107V50%
	69418 South Jones Blvd. Suite 100 Las Vegas, NV 89119 Phone (702) 365-9312 Fax (702) 365-9312 www.lochsa.com							REV.: DATE: BY:	DESCRIPTION:

FOR CONTINUATION SEE SHEET C5.01

5/28/2016 8:15 AM T:\Projects\10-10-16\10-10-16.dwg		LEGEND		CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS	C5.02
		PROPERTY LINE		SAWCUT LINE		EXISTING:	---(2210)---								12.34 BC		Ⓢ	Ⓢ = SANITARY SEWER Ⓢ = STORM DRAIN Ⓢ = ELECTRICAL Ⓢ = TELEPHONE											SHEET 12 of 15
		ROW LINE		SCARP LINE		PROPOSED:	---2122---								12.34 BC		Ⓢ												CLV No. 69418



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DEER SPRINGS AND HUALAPAI CITY OF LAS VEGAS, NEVADA

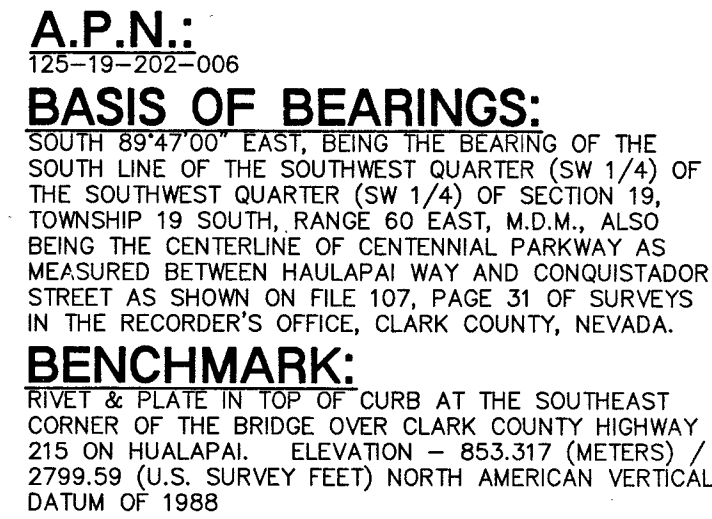
DETAIL SHEETS SHEET 2 OF 2

PROJECT No.: 161109
DATE: 4/25/2017
SCALE: ---
DRAWN BY: MGZ
DESIGNED BY: MGZ
CHECKED BY: JLI

CLV No.: 10745060 **HTE No.:** 69418 **17-19758**

SHEET No.: C6.02 **14 OF 15**

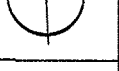
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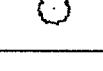
LANDSCAPE LEGEND (BOULDERS)

SYMBOL	SIZE	COMMON NAME	BOTANICAL NAME	QUANTITY
	1500-2500 LB	GRANITE LANDSCAPE BOULDER	N/A	21

LANDSCAPE LEGEND (TREES)

SYMBOL	SIZE	COMMON NAME	BOTANICAL NAME	QUANTITY
	36 INCH BOX	SHOESTRING ACACIA	ACACIA STENOPHYLLA	47
	36 INCH BOX	RAYWOOD ASH	FRAXINUS OXYCARPA 'RAYWOOD'	45
	24 INCH BOX	BLUE PALO VERDE	PARKINSONIA FLORIDA	35
	36 INCH BOX	BLUE PALO VERDE	PARKINSONIA FLORIDA	6
	24 INCH BOX	CAROLINA LAUREL CHERRY	PRUNUS CAROLINIANA	7
	24 INCH BOX (10'-0" BROWN TRUNK HEIGHT)	MEXICAN FAN PALM	WASHINGTONIA ROBUSTA	26
	24 INCH BOX	SHOESTRING ACACIA	ACACIA STENOPHYLLA	7

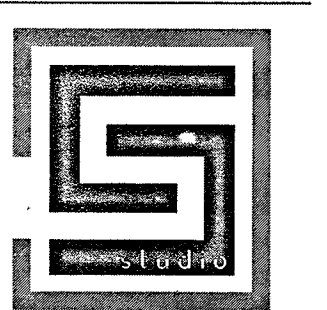
LANDSCAPE LEGEND (SHRUBS)

SYMBOL	SIZE	COMMON NAME	BOTANICAL NAME	QUANTITY
	5 GALLON	TRAILING LANTANA - ORANGE	LANTANA MONTEVIDENSIS - ORANGE	86
	5 GALLON	TRAILING LANTANA - YELLOW	LANTANA MONTEVIDENSIS - YELLOW	98
	5 GALLON	AUTUMN SAGE	SALVIA GREGGII	54
	5 GALLON	GREEN DESERT SPOON	DASYLIRON ACROTRICHE	127
	5 GALLON	PURPLE FOUNTAIN GRASS	PENNISETUM SETACEUM 'RUBRUM' 'CUPREUM'	85
	5 GALLON	VELVET-LEAF SENNA	SENNA LINDHEIMERIANA (=CASSIA)	13

LANDSCAPE GENERAL NOTES:

1. INSTALLATION AND MAINTENANCE REQUIREMENTS OF NEW LANDSCAPING TO BE PROVIDED BY THE OWNER IN ACCORDANCE WITH TOWN CENTER DEVELOPMENT STANDARDS AND TITLE 19.
2. THE OWNER, DEVELOPER AND OCCUPANT OF THE PROPERTY ARE JOINTLY AND SEVERALLY RESPONSIBLE FOR MAINTAINING OR ASSURING THE ONGOING MAINTENANCE OF INSTALLED LANDSCAPING SO THAT THE LANDSCAPING CONTINUES TO THRIVE. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE OWNER, DEVELOPER OR CONTRACTOR SHALL POST A PERFORMANCE BOND OR EQUIVALENT SECURITY TO ASSURE THE PERFORMANCE OF THE MAINTENANCE OBLIGATION FOR A MINIMUM OF TWO YEARS.
3. LANDSCAPE CONTRACTOR TO PROVIDE (4) FIVE GALLON SHRUBS PER REQUIRED TREE.
4. ALL LANDSCAPE TO BE INSTALLED PER TITLE 19 REQUIREMENTS.
5. THE OWNER, DEVELOPER AND OCCUPANT OF THE PROPERTY ARE JOINTLY AND SEVERALLY RESPONSIBLE FOR MAINTAINING OR ASSURING THE ONGOING MAINTENANCE OF INSTALLED LANDSCAPING SO THAT THE LANDSCAPING CONTINUES TO THRIVE. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE OWNER, DEVELOPER OR CONTRACTOR SHALL POST A PERFORMANCE BOND OR EQUIVALENT SECURITY TO ASSURE THE PERFORMANCE OF THE MAINTENANCE OBLIGATION FOR A MINIMUM OF TWO YEARS.
6. ALL PLANTERS AREAS NOT OTHERWISE NOTED TO HAVE 3" DEEP, 3/4" GRAVEL, OR BLACK POLYETHYLENE GROUND COVER, AROUND & BETWEEN PLANTS & SHRUBS. GRAVEL COLOR TO BE SELECTED BY ARCHITECT.
7. ALL TREES SHALL HAVE A GROWTH HEIGHT OF 4' OR HIGHER W/ 20 FOOT SPREAD MIN. ALL TREES TO BE STAKED FOR SUPPORT.
8. CONTRACTOR SHALL REMOVE ALL ROCKS, WEEDS, DEBRIS & ALL EXTRANEOUS MATERIAL FROM JOB SITE PRIOR TO PROCEEDING WITH ANY LANDSCAPE WORK AND DISPOSE OF IN A SUITABLE AND LAWFUL MANNER.
9. ANY REQUIRED PLANT MATERIAL THAT DOES NOT SURVIVE, OR SUSTAINS SEVERE DAMAGE, SHALL BE REPLACED WITHIN 90 DAYS.
10. ALL PLANTING AREAS TO BE PROPERLY PREPARED AND FERTILIZED TO SUSTAIN LIFE AND GROWTH FOR SIX (6) MONTHS AFTER INSTALLATION.
11. SUPPLY AND INSTALL ALL PIPING, FITTINGS, VALVES, HEADS, TIMER, WIRING, ETC. NECESSARY TO PROVIDE A PROPER AUTOMATIC IRRIGATION SYSTEM TO ALL PLANTING AREAS ADEQUATE TO ALLOW VIGOROUS PLANT LIFE, HEALTH, AND GROWTH.
12. IRRIGATION CONTROLLER TO BE: RAINMASTER EAGLE4 (12) W/ CENTRAL COMMUNICATION KIT.
13. ROOT BARRIER TO BE INSTALLED BY ANY CURB, WALL OR SIDEWALK.
14. ALL PIPES AND CONTROLLER WIRES ARE TO BE PLACED IN SLEEVINGS UNDER ALL HARDSCAPE AREAS.

ARCHITECT OF RECORD

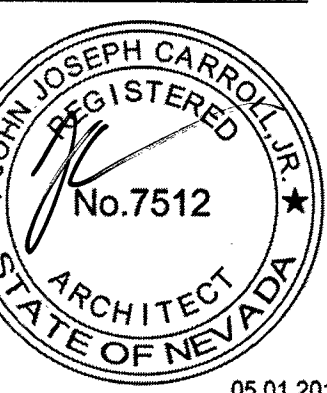


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05.01.2017

STORAGEONE
W DEER SPRINGS WAY & N HUALAPAI WAY
LAS VEGAS, NEVADA

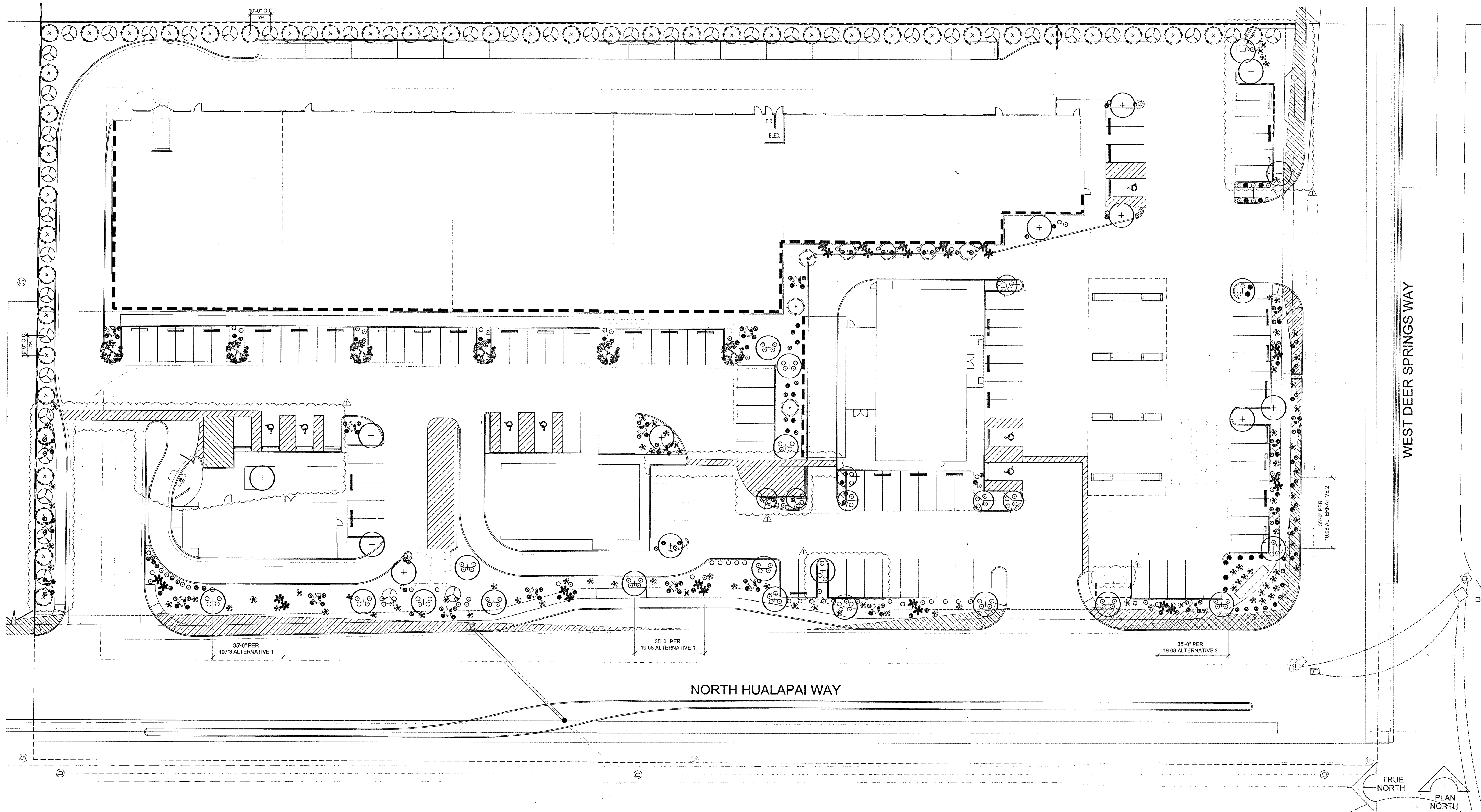
Delta #	Issue Date	Description
1	04/13/17	PinChk Comments

Project No.	2017001
Date:	April 6, 2017
Drawn:	J. Carroll
Reviewed:	J. Carroll & Shurley

Drawing Title: LANDSCAPE PLAN

Sheet No.:

AS2.1
10725000 L-69418



A LANDSCAPE PLAN

SCALE: 1" = 20'

SCALE: 1" = 20'
0 10 20 40



SCALE: NOT TO SCALE

STORAGEONE
1100 W DEER SPRINGS WAY & N HUALAPAI WAY
LAS VEGAS, NEVADA

[illegible]

LANDSCAPE -
PLANTING
DETAILS

17

Sheet No.:

AS2.2

10745060 L-69418

IRRIGATION LEGEND

SYMBOL	MANUFACTURER	MODEL NUMBER / DESCRIPTION
WM	SEE CIVIL PLANS	WATER METER
⊕	HUNTER	ICV 1" REMOTE CONTROL VALVE W/ FILTER & PRESSURE REGULATOR - TREE, SHRUB & PALM VALVE
●	AGRIFIM	DRIP FLUSH END CAP
BFP	FEBCO	825Y W/ STRAINER BACKFLOW PREVENTION ASSEMBLY
---	AS APPROVED	PVC PIPE SCHEDULE 40 - SIZE ACCORDINGLY 18" BELOW GRADE, ALL MAINLINE ON PROJECT SEE SIZE ON PLAN
---	TORO	DRIP IRRIGATION WITH 3/4" BLUE STRIPE POLY PIPE TUBING AND 1/4" EMITTER TUBING - REFER TO SHRUB EMITTER CHART
*****	AS APPROVED	PROVIDE (2) PVC PIPE SCHEDULE 40 SLEEVES, MINIMUM 2" DIAMETER (1) TO BE USED FOR THIS SCOPE OF WORK AND (1) 2" DIAMETER FOR FUTURE USE. PIPE USED FOR THIS SCOPE OF WORK SHALL BE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED. NO SYMBOL SHOWN ON PLANS - ALL PIPES AND WIRES UNDER PAVING
---	TORO	PVC PIPE CLASS 200, AS LATERAL LINES 12" BELOW GRADE, SIZE PER PLAN
△	HUNTER	IRRIGATION SYSTEM CONTROLLER - PEDESTAL MOUNT

DRIP VALVE BOX
X/TX INDICATES CONTROLLER/
STATION NUMBER
X INDICATES VALVE SIZE

PIPE SIZING CHART

DIAMETER	CL 200	CL 315	SCH 40
1/2"	-	-	-
3/4"	8-11 GPM	-	5-8 GPM
1"	12-16 GPM	-	9-13 GPM
1-1/4"	17-26 GPM	-	14-24 GPM
1-1/2"	27-36 GPM	-	25-34 GPM
2"	37-57 GPM	26-39 GPM	35-50 GPM

SHRUB EMITTER CHART

SIZE	GPH	NUMBER OF EMITTERS
1 GALLON	2 GPH	1 EACH
5 GALLON	2 GPH	2 EACH
15 GALLON	2 GPH	3 EACH
24" BOX	2 GPH	4 EACH
36" BOX	2 GPH	6 EACH

IRRIGATION GENERAL NOTES:

1. THE IRRIGATION SYSTEM IS DRAWN DIAGRAMMATICALLY. WHERE POSSIBLE, LOCATE ALL IRRIGATION LINES AND APPURTENANCES.
2. INSTALL REMOVE CONTROL VALVES ADJACENT TO PAVING WHERE POSSIBLE.
3. ALL IRRIGATION LINES UNDER PAVING SHALL BE SLEEVED WITH SCHEDULE 40 PIPE MIN. 2X DIAMETER OF PIPE BEING SLEEVED TYPICAL 18" BELOW GRADE. PROVIDE GROUND MARKER TO SHOW LOCATION OF SLEEVE ENDS.
4. ALL IRRIGATION SLEEVES TO BE INSTALLED AT MINIMUM OF 6" PAST ANY KNOWN OBSTRUCTIONS BEING SLEEVED UNDER INCLUDING WALLS, FENCES, HARDSCAPES, ETC.
5. ACTUAL POC LOCATION TO BE AS DESIGNATED BY WATER DISTRICT AND OWNER'S AUTHORIZED REPRESENTATIVE.
6. SCH40 DRIP LATERALS/MANIFOLDS ARE DIAGRAMMATIC ONLY AND DENOTE GENERAL STATION LIMITS. SUBLATERALS, FLEX PVC, EMITTERS, AND OTHER DRIP EQUIPMENT ARE NOT SHOWN FOR CLARITY.
7. MAIN LINE AND LATERAL LINES SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL MAIN LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES (TYPICAL).
8. CONTRACTOR TO COORDINATE QUANTITY AND LOCATIONS OF IRRIGATION SYSTEM CONTROLLERS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.

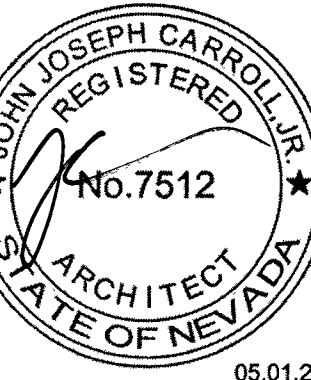
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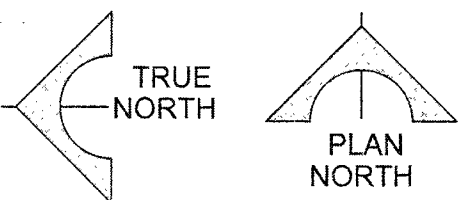
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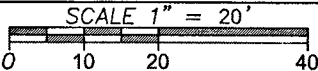


WEST DEER SPRINGS WAY

NORTH HUALAPAI WAY



A LANDSCAPE - IRRIGATION PLAN
SCALE: 1" = 20'

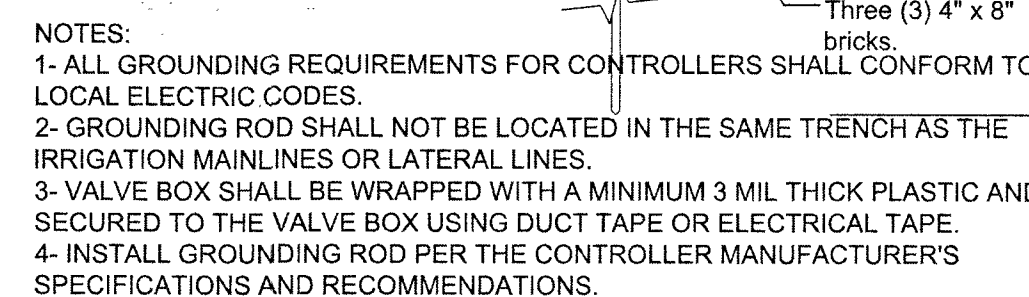


LANDSCAPE - IRRIGATION PLAN

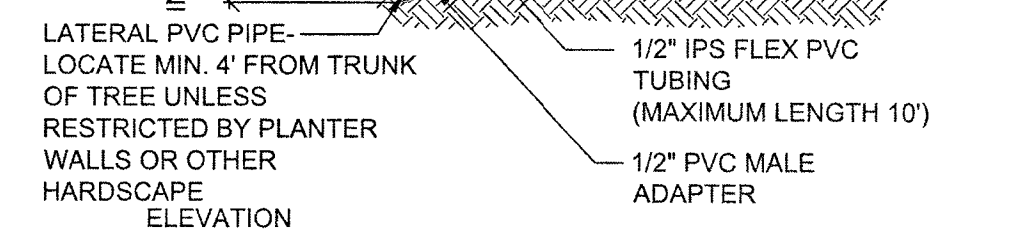
Delta #	Issue Date	Description
1	04/13/17	Plr/Chk Comments

Project No. 2017001
Date: April 8, 2017
Drawn: J. Carroll
Reviewed: J. Carroll/G. Shurley
Drawing Title: LANDSCAPE - IRRIGATION PLAN

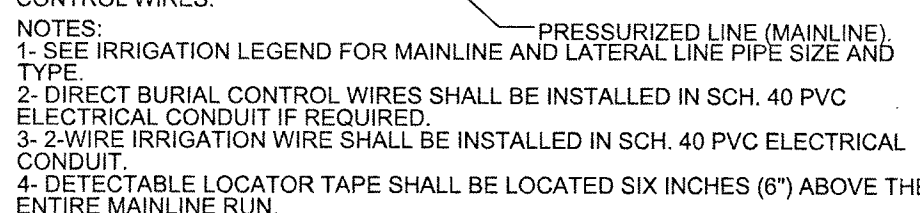
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AS2.3
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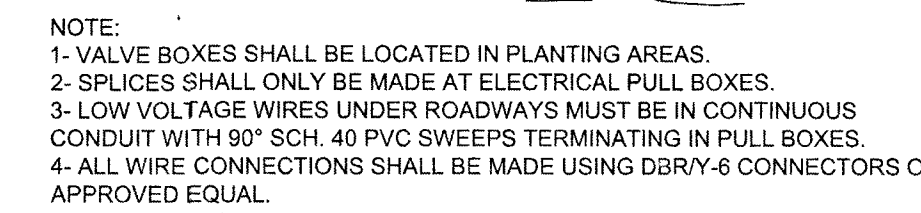
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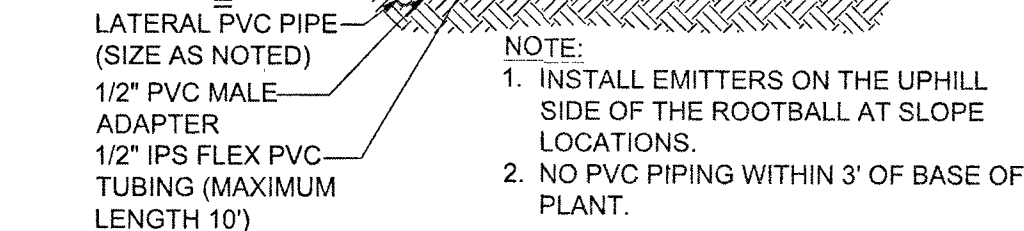
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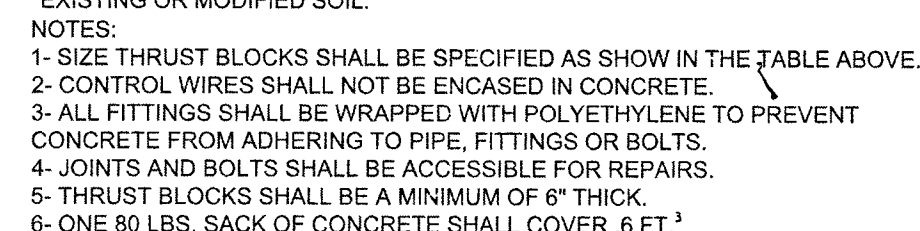
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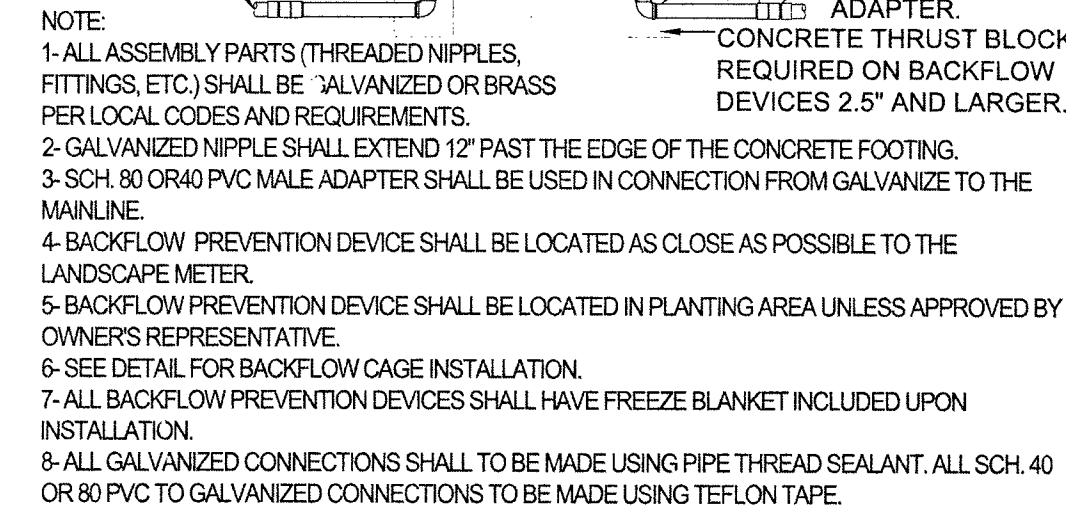
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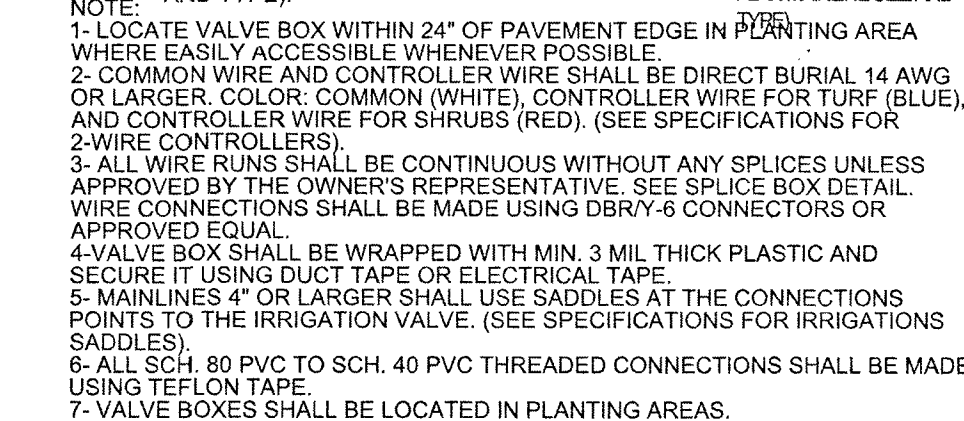
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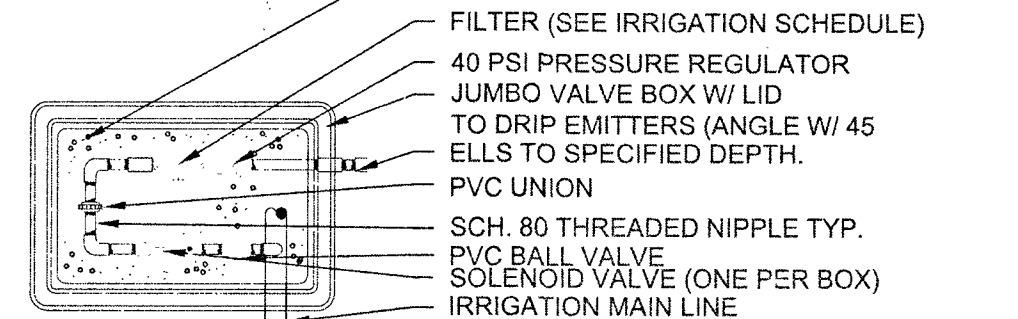
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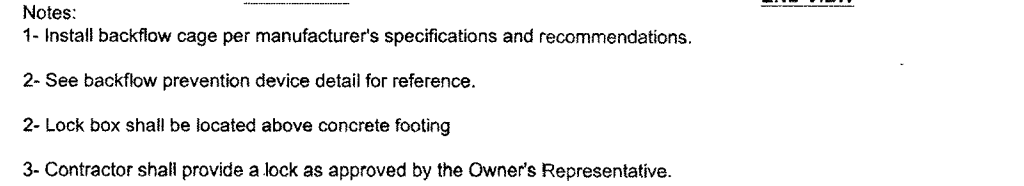
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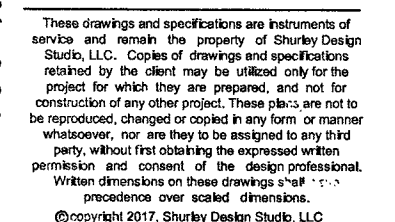
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SCALE: NONE



5	SCALE: NONE
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STORAGEONE
10000 DEER SPRINGS WAY & N HUALAPAI WAY
LAS VEGAS, NEVADA

19
Sheet No.:
AS2.4
10745060 L-69418