

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED JUNE 4, 2018 (LD VERSION)

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADIES 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 ALLOWANCE 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 CONSIDERATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF HIS ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHSEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLY(VINYL) (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80) FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80) FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE & RESCUE ADOPTED FIRE CODE ORDINANCE #6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FOR LAS VEGAS FIRE & RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC § 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC § 3310, § 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC § 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]
 - RESIDENTIAL - 500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
 - COMMERCIAL - 300 FEET UNSPRINKLERED; 400 FEET SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [IFC § C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC § C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC § 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [IFC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 INS. [IFC § 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES, NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD, NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LINES THROUGH PARKING LOTS SHALL NOT BE LESS THAN 24 FT. [IFC § 503.2.1.1]
24. FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 800 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FT IN HEIGHT, OR EXCEEDING 62,000 SQ FT IN AREA. [IFC § 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
28. ELECTRONICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

EFFECTIVE DATE 03-01-2016

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA AND OTHER APPLICABLE STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE, AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL UTILITIES AND STRUCTURES AND 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 UP 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 CONSTRUCTIONS TO THE EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION, THE EXTENT OF THE TRANSITIONS TO BE SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA AND OTHER APPLICABLE STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE, AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL UTILITIES AND STRUCTURES AND 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 UP 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.
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14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
16. WALL NOTES:
 - ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS, FLOOD CONTROL, AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BONS, LOCATING RIBBONS, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE MANHOLE, AND THE CONNECTION TO A DROP INLET, THE CONNECTION TO SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 06/04/2018

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES:

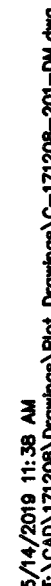
1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099.

ALL CIVIL IMPROVEMENT PLANS MUST INCLUDE SOUTHWEST GAS CORPORATION HIGH PRESSURE NOTES ON THE BELOW SHEET AND ALL SHEETS DEPICTING HIGH PRESSURE NATURAL GAS MAINS AS INDICATED BELOW:

CAUTION: HIGH PRESSURE GAS!
CALL SOUTHWEST GAS AT 702-400-1789 FOR STANBY
WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS
LINES 48 HOURS PRIOR TO CONSTRUCTION.

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADEING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION ZONE AND PUBLIC WORKS, THE CONTRACTOR SHALL ADVISE STUDENTS OF THE CONSTRUCTION ZONE IN 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 MARKINGS, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH THE CITY OF LAS VEGAS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH THE CITY OF LAS VEGAS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH THE CITY OF LAS VEGAS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. 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REVIEWS:		
REV.	DESCRIPTION:	DATE:
1	REVISED TO REMOVE ALL SIDEWALK ON ESSEX	4/10/19
	Δ APPD BY: LM 5/13/19	

SEAL: 

DATE:	05/14/19	DRAWN BY:	NMG	REVISION: 1
SUBMITTAL:			A/E PROJECT NO.: 171208	

A/E:

3883 Howard Hughes Pkwy
Suite 650
Las Vegas NV 89169
Tel: 702.893.2800
Fax: 702.893.2805

Gensler	Lochsa <i>engineering</i> 6546 South Jones Blvd. Suite 100 Las Vegas, NV 89118 Phone (702) 365-6312 Fax (702) 365-6317 www.lochsa.com
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CONSULTANT:	
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CONSTRUCTION MGMT:	DATE:
PROJECT MANAGER:	
COORDINATOR:	
BUILDING DEPARTMENT:	
CODE COMPLIANCE:	
ADDITIONAL COMMENTS:	

ASBESTOS WORK IS:	DATE:
REQUIRED ☐ NOT REQUIRED ☐	

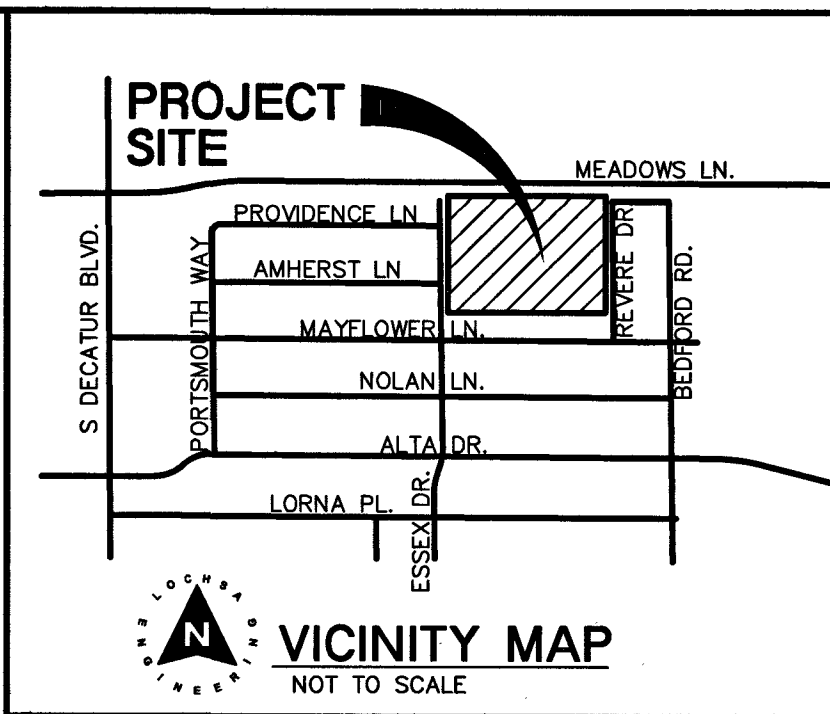
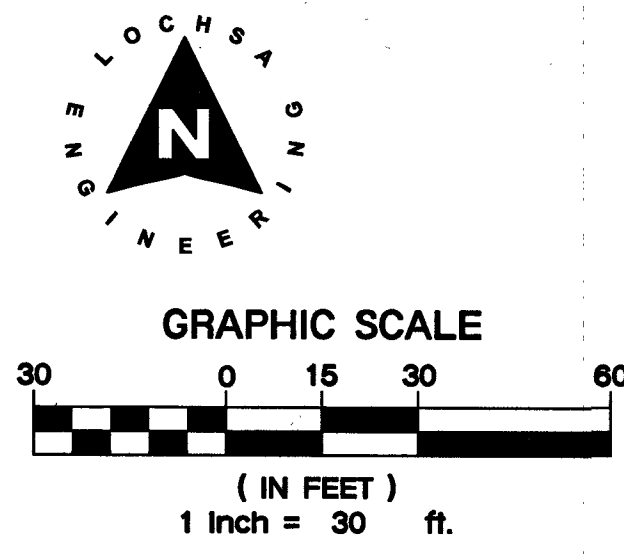
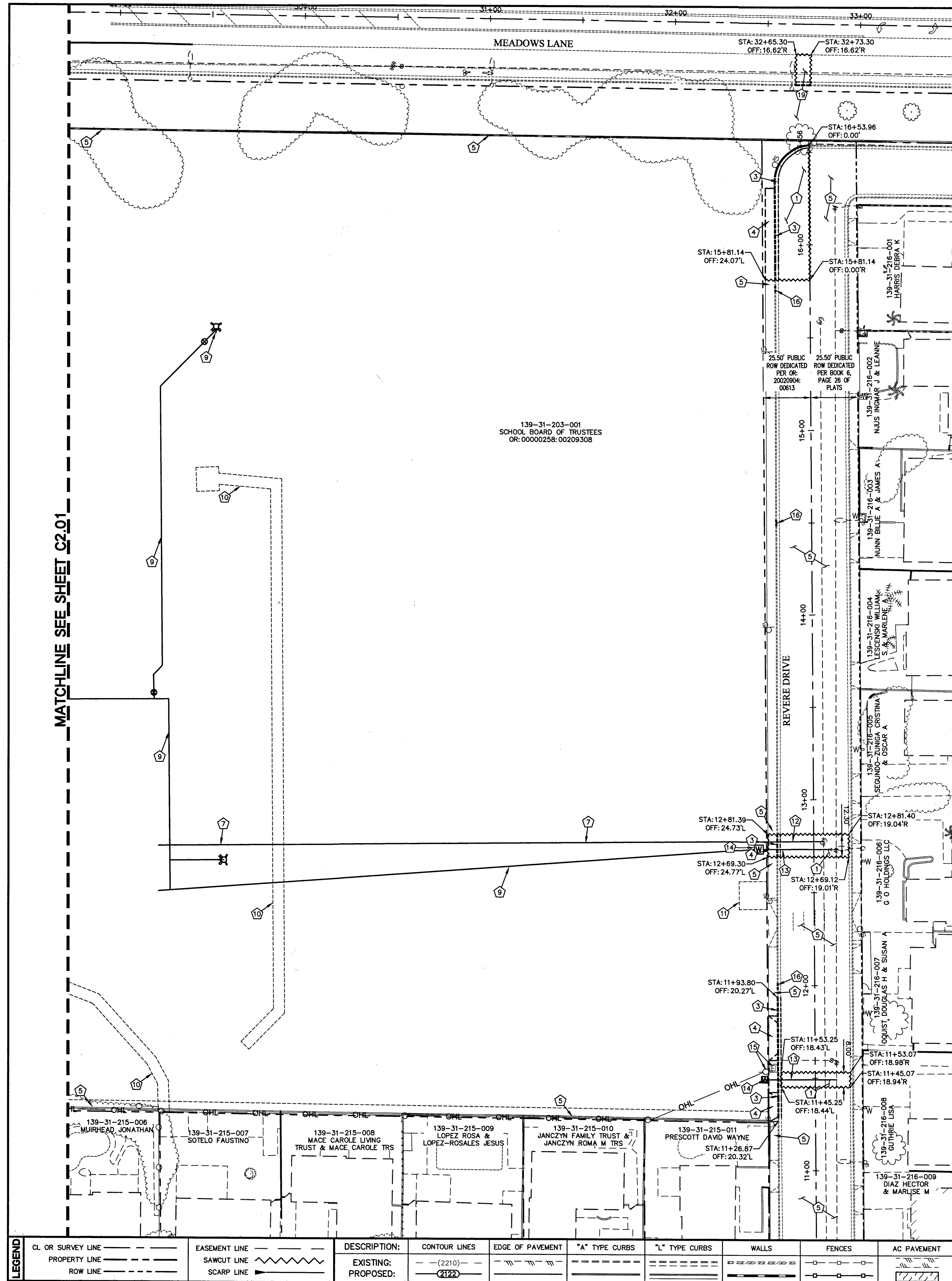
JOB#	0001621
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CLARK COUNTY SCHOOL DISTRICT CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL. HENDERSON NV 89074. PHONE: 702-789-9710	E.W. GRIFFITH ES REPLACEMENT	DEMOLITION PLANS SHEET 1 OF 2
PROJECT:	DRAWING TITLE:	FACILITY:
		412

SHEET NO:	C2.01	715-212
118-02469	SHEET 2 OF 17	

1/10/2015 4:38 PM
T:\GIS\17225\Drawings\Plan\Drawings\17225-001-004.dwg

MATCHLINE SEE SHEET C2.01



DEMO NOTES:

- 1 REMOVE AND DISPOSE EX. AC PAVEMENT.
- 2 REMOVE AND DISPOSE EX. "A" TYPE CURB.
- 3 REMOVE AND DISPOSE EX. "L" TYPE CURB.
- 4 REMOVE AND DISPOSE EX. CONC. SIDEWALK.
- 5 PROTECT IN PLACE.
- 6 REMOVE AND DISPOSE EX FENCE (FENCE TO REMAIN DURING CONSTRUCTION).
- 7 REMOVE EX. SEWER LINE.
- 8 REMOVE AND DISPOSE EX. PORTABLE.
- 9 REMOVE EX. WATER LINE.
- 10 EX. ELECTRICAL EASEMENT TO BE VACATED.
- 11 EX. LVVMD EASEMENT TO BE VACATED.
- 12 EX. SEWER LINE TO BE ABANDONED PER DCWSC SECTION 3.18.1 METHOD B.
- 13 EX. WATER LINE TO BE ABANDONED PER UDACS SECTION 2.17.04B.
- 14 EX. METER & RPPA OR RPDA TO BE REMOVED PER UTILITY PLANS.
- 15 EX. ELECTRICAL TO BE REMOVED/RELOCATED PER ELECTRICAL PLANS.
- 16 REMOVE CURB, CUTTER AND SIDEWALK AS NECESSARY FOR INSTALLATION OF SIDEWALK UNDER DRAIN.
- 17 EX. WATER LINE TO BE ABANDONED PER UDACS SECTION 2.17.04A.
- 18 EX. WATER LINE TO CUT AND CAPPED FOR FUTURE USE.
- 19 EX. LANDSCAPING, CURB, AC AND WALL TO BE REMOVED AND REPLACED AS NECESSARY FOR THE INSTALLATION OF NEW WATER.

NOTE:
ALL ONSITE UTILITIES TO BE REMOVED.

BASIS OF BEARINGS:

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

ZONE: LAS VEGAS ELEVATION ZONE
DATUM (REFERENCE FRAME):
NAD 1983(2011) EPOCH 2010.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.6667 FEET US)
EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET US)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

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

A.P.N.:
139-31-203-001

BENCHMARK:
CITY OF LAS VEGAS BENCHMARK NO. 2LV0131NW6
BEING A RIVET AND PLATE TOP OF N. SIDE OF MEADOWS LANE
1/4 E. OF DECATUR BLVD.
ELEVATION: 2,180.68 FEET / 664.67362 METERS
NAVD '88

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.

SAFETY ALERT

Call Before you Dig
Before you Overhead

1-702-227-2929
1-702-432-5300
1-800-227-2800

REVISIONS:		
REV.	DESCRIPTION	DATE

PROJECT SITE	
PROVIDENCE LN.	MEADOWS LN.
AMHERST LN.	REVERE DR.
MAYFLOWER LN.	
NOLAN LN.	
ALTA DR.	
LORNA PL.	
ESSEX DR.	
S DECATUR BLVD.	

VICINITY MAP
NOT TO SCALE

SEAL:
GUY M. MORRIS
CIVIL
No. 14526
01-04-19

DATE: 01/04/19
DRAWN BY: NMG
SUBMITTAL: NSFM RESUBMITTAL
A/E PROJECT NO.: 171208

CONSULTANT:
Gensler
3883 Howard Hughes Pkwy
Suite 650
Las Vegas, NV 89169
Tel: 702.893.2800
Fax: 702.893.2805

LOCHSA ENGINEERING
6545 South Jones Blvd.
Suite 100
Las Vegas, NV 89118
Tel: 702.385.5817
Fax: 702.385.5817
www.lochsa.com

CONSTRUCTION MGMT:		DATE:
PROJECT MANAGER:		
COORDINATOR:		
BUILDING DEPARTMENT:		
CODE COMPLIANCE:		
AHERA REVIEW:		

ASBESTOS WORK IS:
REQUIRED ☐ NOT REQUIRED ☐

JOB#
0001621

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL. HENDERSON, NV 89074 PHONE: 702-798-8710

PROJECT: E.W. GRIFFITH ES REPLACEMENT

DRAWING TITLE: DEMOLITION PLANS SHEET 2 OF 2

FACILITY: 412

SHEET NO.: L18-02469 C2.02 715-212

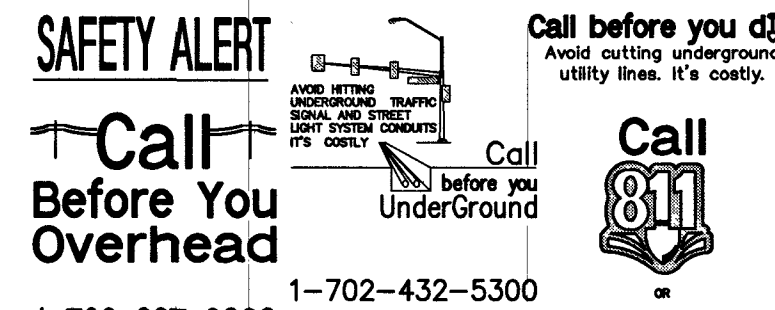
SHEET 4 OF 17

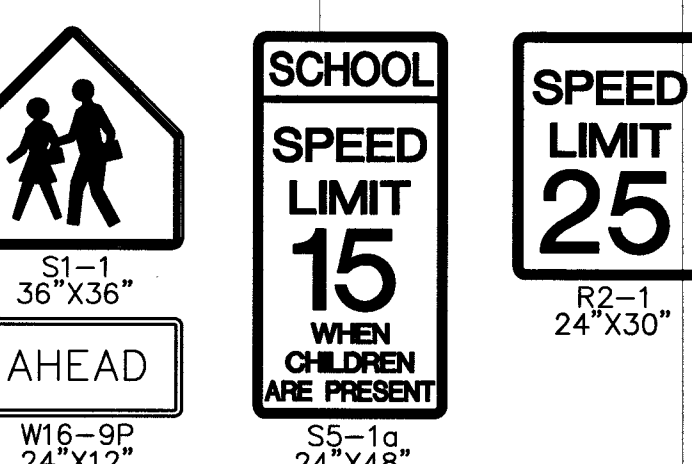
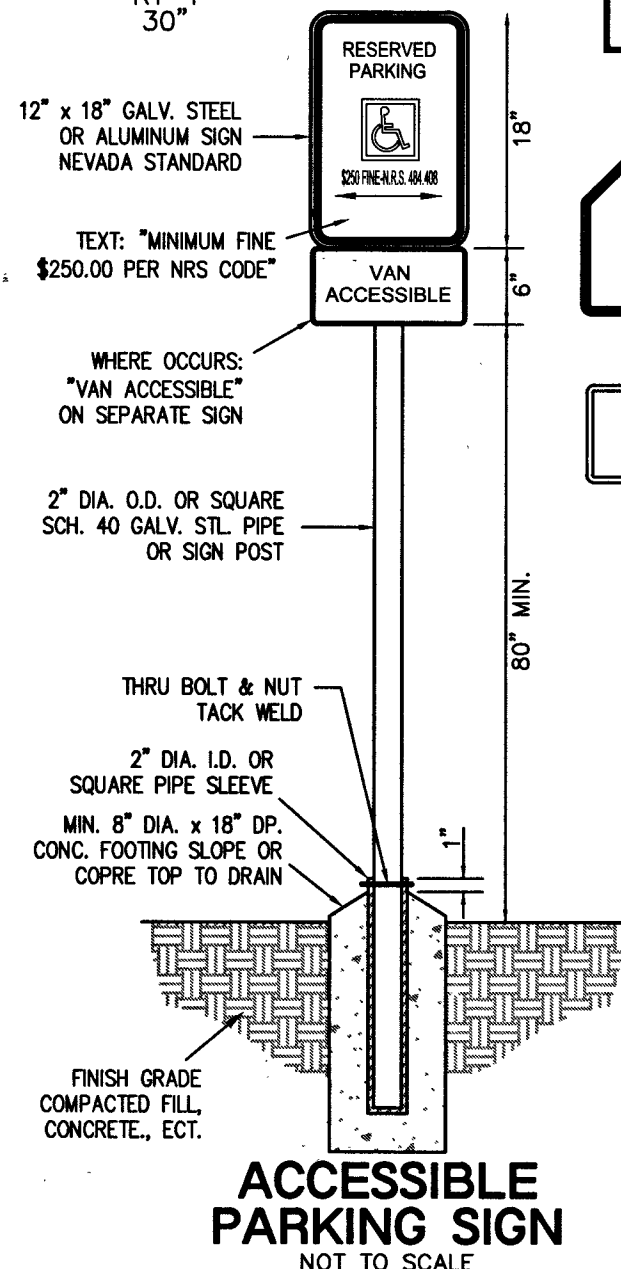


CURVE TABLE				CURVE TABLE				CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C1	4.69'	3.00'	089°39'17"	C28	2.68'	1.50'	102°31'10"	C55	36.91'	23.50'	090°00'00"
C2	39.88'	25.00'	091°23'50"	C29	2.68'	1.50'	102°31'10"	C56	3.93'	2.50'	090°00'00"
C3	10.63'	15.00'	040°35'14"	C30	39.51'	25.00'	090°33'14"	C57	3.93'	2.50'	090°00'00"
C4	3.14'	2.00'	090°00'00"	C31	4.71'	3.00'	090°00'00"	C58	3.93'	2.50'	090°00'00"
C5	6.14'	1.95'	180°00'02"	C32	4.71'	3.00'	090°00'00"	C59	3.93'	2.50'	090°00'00"
C6	3.66'	2.00'	104°52'45"	C33	3.93'	2.50'	090°00'00"	C61	7.85'	2.50'	180°00'00"
C7	10.52'	28.50'	021°09'19"	C34	7.07'	4.50'	090°00'00"	C63	7.85'	2.50'	180°00'00"
C8	16.83'	28.50'	033°50'05"	C35	23.44'	15.00'	089°32'25"	C65	7.85'	2.50'	180°00'02"
C9	16.69'	27.50'	034°46'44"	C36	5.24'	4.50'	066°44'46"	C71	7.85'	2.50'	180°00'02"
C10	38.06'	24.50'	089°00'00"	C37	5.18'	75.50'	003°55'52"	C72	7.85'	2.50'	180°00'00"
C11	3.83'	2.53'	086°34'47"	C38	3.20'	9.50'	019°19'22"	C75	7.85'	2.50'	180°00'00"
C12	19.63'	12.50'	090°00'00"	C39	53.12'	25.00'	121°44'37"	C76	7.85'	2.50'	180°00'00"
C13	57.32'	36.53'	089°54'52"	C40	54.85'	100.50'	031°16'22"	C79	7.85'	2.50'	180°00'00"
C14	11.59'	27.50'	024°08'15"	C41	36.46'	52.50'	039°47'17"	C80	7.85'	2.50'	180°00'00"
C15	26.00'	60.50'	024°37'25"	C42	4.11'	2.50'	094°14'28"	C81	7.85'	2.50'	180°00'00"
C16	8.64'	5.50'	090°00'00"	C43	49.22'	52.50'	053°42'42"	C82	7.85'	2.50'	180°00'00"
C17	3.93'	2.50'	090°00'00"	C44	23.24'	15.00'	088°45'33"	C83	7.85'	2.50'	180°00'00"
C18	7.85'	2.50'	180°00'00"	C45	39.61'	25.00'	090°46'36"	C84	3.77'	2.40'	090°00'00"
C19	7.86'	2.50'	180°04'15"	C46	42.83'	27.50'	089°14'28"	C85	3.77'	2.40'	090°00'00"
C20	3.93'	2.50'	089°59'56"	C47	14.63'	25.50'	032°52'35"	C86	3.77'	2.40'	090°00'00"
C21	8.64'	5.50'	090°00'00"	C48	7.85'	4.50'	099°58'03"	C87	3.93'	2.50'	090°00'00"
C22	18.06'	11.50'	090°00'00"	C49	38.41'	27.50'	080°01'57"	C88	3.93'	2.50'	090°00'00"
C23	3.93'	2.50'	090°00'00"	C50	3.93'	2.50'	090°00'00"	C89	8.64'	5.50'	090°00'00"
C24	4.71'	3.00'	090°00'00"	C51	7.85'	2.50'	180°00'00"	C90	8.64'	5.50'	090°00'00"
C25	23.41'	15.00'	089°26'09"	C52	7.92'	2.50'	181°31'00"	C92	5.20'	10.50'	028°23'24"
C26	7.44'	5.50'	077°28'50"	C53	3.93'	2.50'	090°00'00"	C93	4.85'	9.50'	029°14'15"
C27	7.44'	5.50'	077°28'50"	C54	3.93'	2.50'	090°00'00"				

NOTES:

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

412



8883 Howard Hughes Pkwy
Suite 650
Las Vegas NV 89169
Tel: 702.893.2800
Fax: 702.893.2805

CONSTRUCTION MGMT:		DATE:
PROJECT MANAGER:		
COORDINATOR:		
BUILDING DEPARTMENT:		
CODE COMPLIANCE:		
AHERA REVIEW:		
ASBESTOS WORK IS:		
REQUIRED ☐		NOT REQUIRED ☐
JOB#		
0001621		

**SEE SHEET C3.01 FOR LINE
AND CURVE TABLES**

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

**SIGHT VISIBILITY
ZONE**

NOTE:
NO STRUCTURE, VEGETATION, OR OTHER OBSTACLE OF
ANY KIND IS PERMITTED OVER TWENTY-FOUR
(24) FEET FROM THE BACK OF CURB. NO CURB
TOP OF THE ADJACENT SIDEWALK OR CURB
EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

**SIGHT VISIBILITY
ZONE AREA**



1-702-227-2929 1-702-432-5300 # FREEZE AND MELT SYSTEM OF TRANSPORTATION 1-800-227-2600				
IN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS
○	□	(BWV)		
●	□	(BWV)		

BASIS OF BEARINGS:

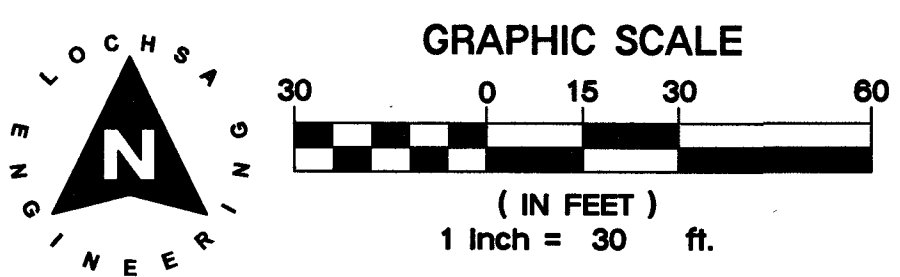
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS MEJAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

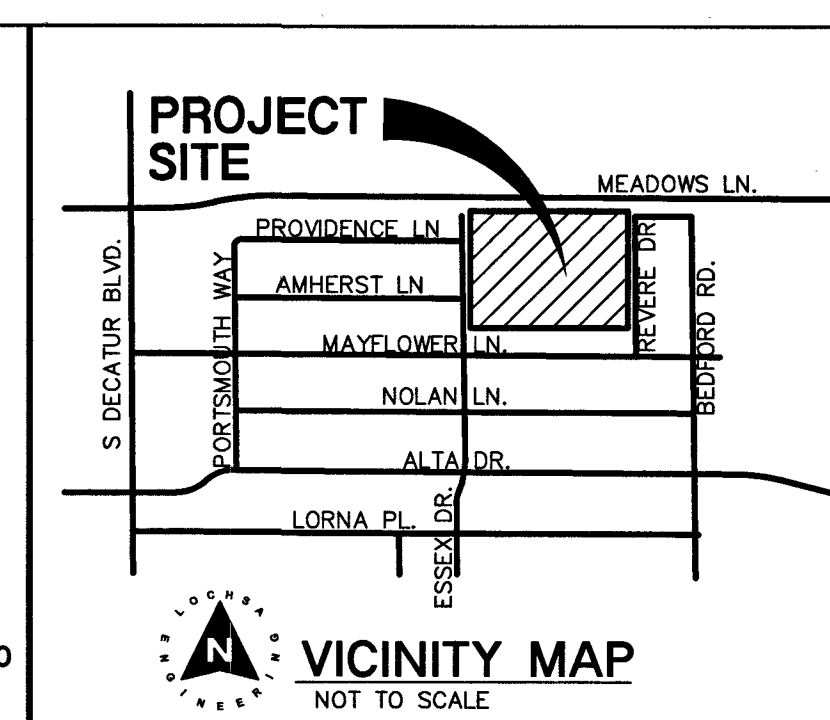
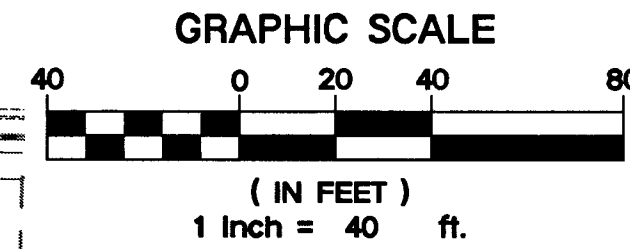
ZONE: LAS VEGAS ELEVATION ZONE
DATUM (REFERENCE FRAME):
NAD 1983(2011) EPOCH 2010.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (GRID ORIGIN):

PROJECT: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LENGTH OF CENTRAL MERIDIAN: 114°58'00"W
"NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.6667 FEET US)
EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET US)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

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

[illegible]



REVISIONS:			
REV.	DESCRIPTION:	DATE:	



Seal of the Professional Engineer, State of Nevada, Guy M. Morris, Civil, No. 14526, Exp. 12-31-19.

DATE:	11-29-18
DRAWN BY:	NWG
SUBMITTAL:	CIVIL SUBMITTAL
VE PROJECT NO.	171208

**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 ACCUMULATIONS THAT MAY BE OBSERVED ON THE SITE OR ACCUMULATED IN, THE PUBLIC RIGHT-OF-WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE STORMWATER 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 STORMWATER POLLUTION PREVENTION PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS 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 AFTER NO MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA OF THE SITE BEGINS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, 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 EROSION CONTROL MEASURES FOR EROSION, PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 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 DUE TO SUSPENSION OF THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, 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.

3883 Howard Hughes Pkwy
Suite 650

Gensler

Lochsa
engineering

6345 South Jones Blvd.
Suite 100
Las Vegas, NV 89118

Phone (702) 365-9312
Fax (702) 365-9317
www.lochsa.com

CONSULTANT:

CONSTRUCTION MGMT:		DATE:
PROJECT MANAGER:		
COORDINATOR:		
BUILDING DEPARTMENT:		
CODE COMPLIANCE:		
AHERA REVIEW:		

ASBESTOS WORK IS:

REQUIRED ☐ NOT REQUIRED ☐

JOB# 0001621

CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT 1180 MILITARY TRIBUTE PL. HENDERSON NV 89074 PHONE: 702-799-8710

W. GRIFFITH ES REPLACEMENT

TITLE:
GRADING PLANS OVERALL

5

A.P.N.:
139-31-203-001

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NO. 2LV0131NW6
BEING A RIVET AND PLATE TOP OF N. SIDE OF MEADOWS LANE
1/4 E. OF DECATUR BLVD.
ELEVATION: 2,180.68 FEET / 664.67362 METERS
NAVD '88

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 HEATING LINES PRIOR TO ANY COMMENCED CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

Call

Call before you dig
Avoid cutting underground

Call

1-702-432-5300

9 FREEWAY AND INTERNAL SYSTEM OF TRANSPORTATION 1-800-227-2600

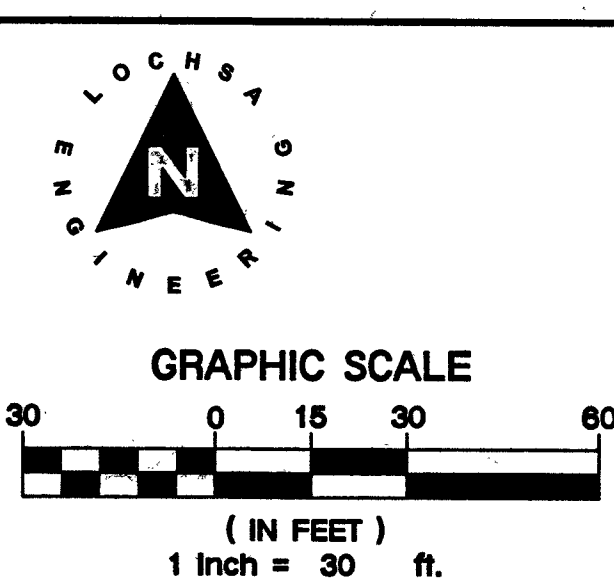
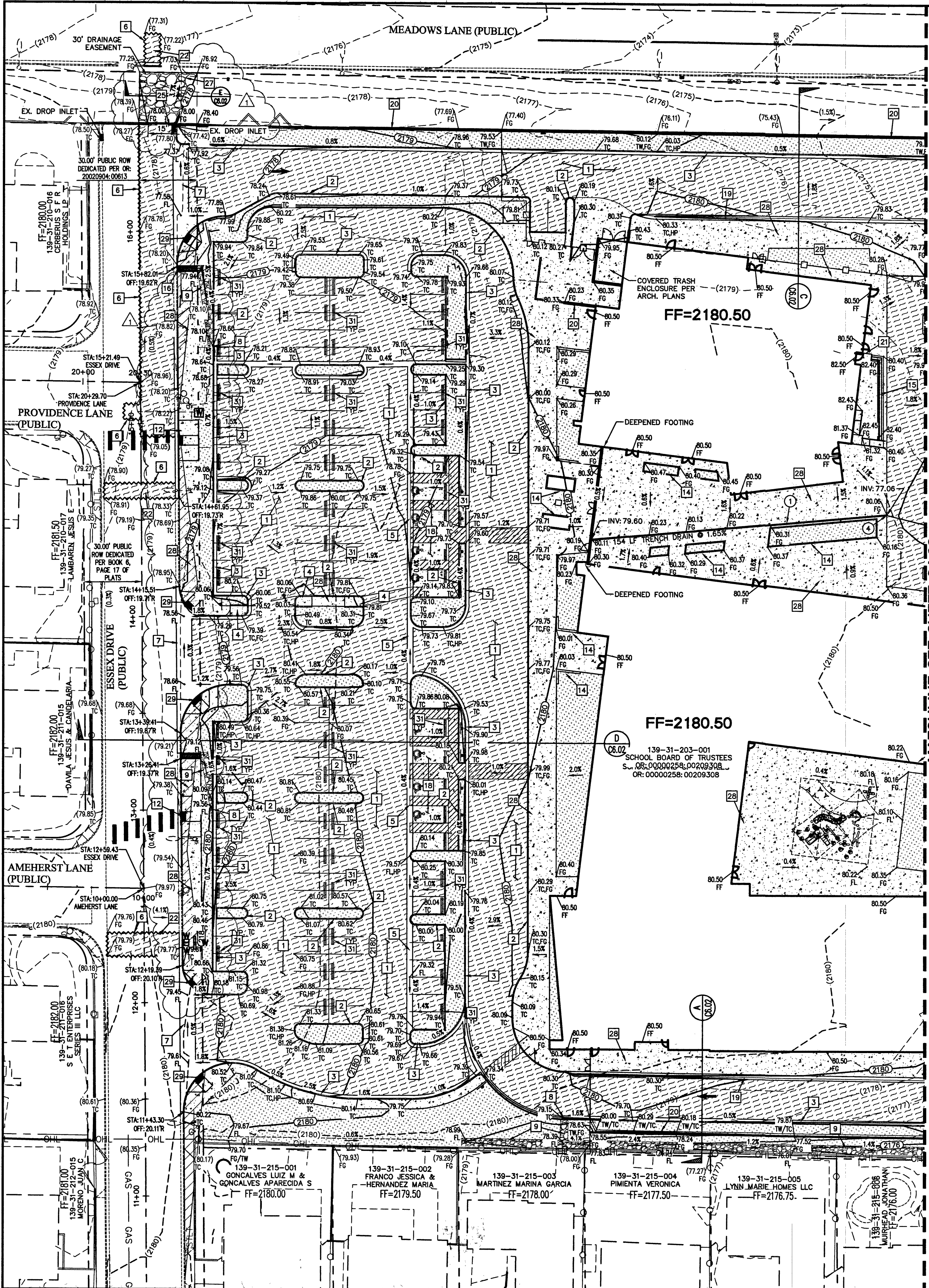
BACKWATER	100m HRS	150m HRS
100m	100m	150m
150m	100m	150m
200m	100m	150m
250m	100m	150m
300m	100m	150m
350m	100m	150m
400m	100m	150m
450m	100m	150m
500m	100m	150m
550m	100m	150m
600m	100m	150m
650m	100m	150m
700m	100m	150m
750m	100m	150m
800m	100m	150m
850m	100m	150m
900m	100m	150m
950m	100m	150m
1000m	100m	150m

SHEET NO:

118-02469 C4 00 715-212

SHEET 7 OF 17

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 ⑤ = SANITARY SEWER ⑥ = STORM DRAIN ⑦ = ELECTRICAL ⑧ = TELEPHONE	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100W HPS STREET LIGHTS	150W HPS STREET LIGHTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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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 CITY OF LAS VEGAS 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 CITY OF LAS VEGAS 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 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 OF RAINFALL. 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 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.

CUT	FILL
1211 CY	2302 CY

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

MAX 2% H.S. BUILDING FF
MIN. 5% L.S.

TYPICAL GRADING AWAY FROM BUILDING STORM DRAIN CONSTRUCTION NOTES:

1. NOT ALL NOTES USED ON THIS SHEET -
① INSTALL CAST IN PLACE TRENCH DRAIN PER DETAIL 18 ON C6.01.
② INSTALL STORM DRAIN CLEAN OUT.
③ DAYLIGHT STORM DRAIN THROUGH WALL.
④ CONNECT STORM DRAIN TO TRENCH PER DETAIL ON 16 ON C6.01.

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 NINYO & MOORE, PROJECT No. 304289001.

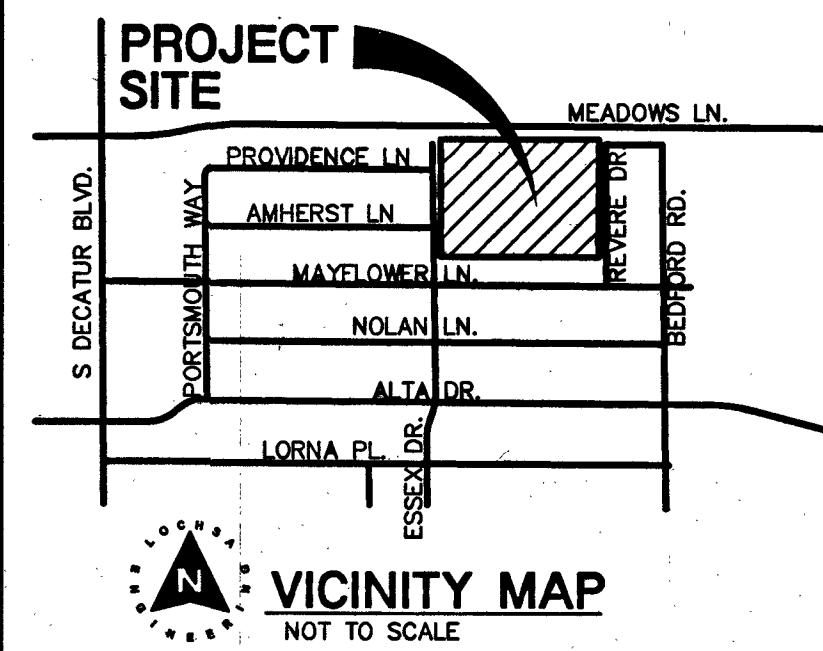
BASIS OF BEARINGS:

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

ZONE: LAS VEGAS ELEVATION ZONE
DATUM (REFERENCE FRAME):
NAD 1983(2011) EPOCH 2010.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 220,000.00 M (656,166.6667 FEET US)
EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET US)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

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



CONSTRUCTION NOTES:

1. NOT ALL NOTES USED ON THIS SHEET -
① CONSTRUCT AC PAVEMENT PER DETAIL 2 ON C6.01.
② CONSTRUCT "A" TYPE CURB PER DETAIL 1 ON C6.01.
③ CONSTRUCT "L" TYPE CURB PER CCAUSD No. 216.
④ CONSTRUCT ONSITE RAMP PER DETAIL 12 ON C6.01.
⑤ CONSTRUCT 3" VALLEY GUTTER PER DETAIL 6 ON C6.01.
⑥ SAWCUT AND MATCH EXISTING.
⑦ CONSTRUCT COMMERCIAL DRIVEWAY PER CCAUSD 225 WITH CONC. CROSS GUTTER PER CCAUSD No. 228.
⑧ CONSTRUCT 2" CURB OPENING PER DETAIL 15 ON C6.01.
⑨ INSTALL D50 = 3" RIP RAP, THICKNESS (T) = 6" PER DETAIL 13 ON C6.01.
⑩ LAY GUTTER FLAT PER DETAIL 14 ON SHEET C6.01.
⑪ ON-SITE CONCRETE PER DETAIL 7 ON SHEET C6.01.
⑫ INSTALL CASE 1 HANDICAP RAMP PER CCAUSD No. 235. A=6", B=8"
⑬ ON-SITE RAMP PER DETAIL 9 ON SHEET C6.01.
⑭ INSTALL PLANTER AND SEAT WALLS PER DETAIL ON C7.02. SEE ARCHITECTURAL PLANS FOR LOCATIONS.
⑮ CONSTRUCT STAIR ON GRADE PER DETAIL 2 ON C7.02.
⑯ CONSTRUCT SIDEWALK DRAIN PER CCAUSD, No. 236.
⑰ INSTALL 2" U' CHANNEL PER DETAIL 10 ON C6.01.
⑱ ON-SITE CONCRETE PER DETAIL 7 ON SHEET C6.01. (COLOR BLACK)
⑲ CONSTRUCT 30" ROLL CURB PER CCAUSD No. 217.2.S1.
⑳ INSTALL RETAINING WALL PER DETAILS ON C7.02.
㉑ INSTALL TURNED DOWN SIDEWALK EDGE PER DETAIL 11 ON C6.01.
㉒ TRENCH, BACKFILL, AND AC RESTORATION CCAUSD Nos. 503, 500.3, 500.4, AND 500.5.
㉓ INSTALL MOW-CURB PER DETAIL 18 ON C6.01.
㉔ CONSTRUCT 2" VALLEY GUTTER PER DETAIL 5 ON C6.01.
㉕ REMOVE AND REPLACE WALL WITH WROUGHT IRON FENCE AS NECESSARY TO PROVIDE 2' TALL X 15' WIDE OPENING
㉖ INSTALL MOW-CURB PER DETAIL 19 ON C6.01.
㉗ INSTALL D50 = 8" RIP RAP, THICKNESS (T) = 16"
㉘ CONSTRUCT SIDEWALK PER CCAUSD, No. 234.
㉙ INSTALL CASE 1 HANDICAP RAMP PER CCAUSD No. 235. A=6.5", B=8.5"
㉚ INSTALL CASE 1 HANDICAP RAMP PER CCAUSD No. 235. A=8", B=8"
㉛ INSTALL PRE-CAST BUMPER BLOCK 2' FROM FACE OF CURB PER CCAUSD No. 238 AND DETAIL 4 ON C6.01

EXISTING UTILITY NOTE:

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

FLOOD ZONE NOTE:

THE PROJECT SITE IS COVERED BY THE FLOOD INSURANCE RATE MAP (FIRM) FOR THE CLARK COUNTY AND INCORPORATED AREAS, NEVADA, COMMUNITY PANEL NUMBER: 32003C2165D, EFFECTIVE

DATE: NOVEMBER 16, 2011. THE PROJECT SITE IS WITHIN ZONE "X" (UNSHADED), DESCRIBED BY FEMA AS: "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

GRADING PLAN CERTIFICATION

NAME: GUY M. MORRIS PE # 14526 DATE 5-14-15
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.

A.P.N.:

139-31-203-001

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK No. 2LV0131NW
BEING A RIVET AND PLATE TOP OF N. SIDE OF MEADOWS LANE 1/4 E. OF DECATUR BLVD.
ELEVATION: 2180.68 FEET / 664.67362 METERS
NAVD '88

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.

SAFETY ALERT

Call Before You Dig
Call Before You Overhead
Call Before You UnderGround
Call Before You Dig
Call Before You Overhead
Call Before You UnderGround

1-702-227-2929 1-702-432-5300 1-800-227-2800

REVISIONS:	
REV.	DESCRIPTION
1	REVISED DRAINAGE AREA FOR FIELD CONDITIONS AND REPLACE SLOPE AND ELEVATIONS
2	APPD BY Jm 5/15/19
DATE: 4/10/19	
PROJECT: 3883 Howard Hughes Pkwy Suite 650 Las Vegas NV 89169	
Tel: 702.893.2800 Fax: 702.893.2805	
CONSULTANT: Gensler	
CONSTRUCTION MGMT. DATE:	
COORDINATOR:	
BUILDING DEPARTMENT:	
CODE COMPLIANCE:	
ASBESTOS WORK IS:	
REQUIRED	NOT REQUIRED
JOB# 0001621	
CLARK COUNTY SCHOOL DISTRICT	
CONSTRUCTION MANAGEMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710	
PROJECT: E.W. GRIFFITHS REPLACEMENT	
DRAWING TITLE: GRADING PLANS SHEET 1 OF 2	
FACILITY: 412	
SHEET NO: 118-02469 C4.01 715-212	
SHEET 8 OF 17	



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 CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIAL SHALL BE PREVENTED FROM

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENT TO AVOID OR MINIMIZE EROSION PROBLEMS. IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED IN DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITIES ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMITS FOR CONSTRUCTION ACTIVITY NVR100000, SECTION II.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 AREAS OF EROSION, WEEKLY, OR AFTER ANY SIGNIFICANT 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 THESE REQUIREMENTS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION II.A.12.
5. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO ANY FUTURE ANTICIPATED STORMWATER EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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

100

MAX 2% H.S. BUILDING FF
MIN 5% L.S.

STORM DRAIN CONSTRUCTION NOTE
- NOT ALL NOTES USED ON THIS SHEET -

- ① INSTALL CAST IN PLACE TRENCH DRAIN PER DETAIL 16 ON C6.01.
- ② INSTALL STORM DRAIN CLEAN OUT.
- ③ DAYLIGHT STORM DRAIN THROUGH WALL.
- ④ CONNECT STORM DRAIN TO TRENCH PER DETAIL 16 ON C6.01.

SHADING NOTES:

1. SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP AND OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS OR SPECIFICATIONS OR THE SOILS REPORT.
2. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONAL 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 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED IN 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'S MECHANICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO REPORT PREPARED BY NINYO & MOORE, PROJECT 304289001.

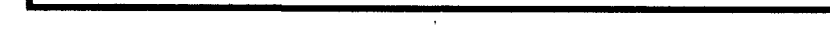
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983; SAID MER BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

ZONE: LAS VEGAS ELEVATION ZONE
 DATUM (REFERENCE FRAME):
 NAD 1983(2011) EPOCH 2010.0
 SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.6667 FEET U
EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET U
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

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



- 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 2 ON C6.01.
 2. CONSTRUCT "A" TYPE CURB PER DETAIL 1 ON C6.01.
 3. CONSTRUCT "L" TYPE CURB PER CAUSD NO. 216.
 4. CONSTRUCT ONSITE RAMP PER DETAIL 12 ON C6.01.
 5. CONSTRUCT 3' VALLEY GUTTER PER DETAIL 6 ON C6.01.
 6. SAWCUT AND MATCH EXISTING.
 7. CONSTRUCT COMMERCIAL DRIVEWAY PER CAUSD 225 WITH CONC. CURB GUTTER PER CAUSD NO. 228.
 8. CONSTRUCT 2' CURB OPENING PER DETAIL 15 ON C6.01.
 9. INSTALL $050 = 3"$ RIP RAP. THICKNESS (T) = $6"$ PER DETAIL 13 ON C6.01.
 10. LAY GUTTER FLAT PER DETAIL 14 ON SHEET C6.01.
 11. ON-SITE CONCRETE PER DETAIL 7 ON SHEET C6.01.
 12. INSTALL CEMENT 1 HANDICAP RAMP PER CAUSD NO. 235. $A=8"$, $B=8"$
 13. ON-SITE RAMP PER DETAIL 9 ON SHEET C6.01.
 14. INSTALL PLANTER AND SEAT WALLS PER DETAIL ON C7.02.
 15. SEE EXHIBITURE C-1 PLANS FOR LOCATIONS.
 16. CONSTRUCT STAIR ON GRADE PER DETAIL 2 ON C7.02.
 16. CONSTRUCT SIDEWALK DRAIN PER CAUSD. NO. 236.
 17. INSTALL 2' "U" CHANNEL PER DETAIL 10 ON C6.01.
 18. ON-SITE CONCRETE PER DETAIL 7 ON SHEET C6.01. (COLOR BLACK)
 19. CONSTRUCT 30" ROLL CURB PER CAUSD NO. 217.2.S1.
 20. INSTALL RETAINING WALL PER DETAILS ON C7.02
 21. INSTALL TURNED DOWN SIDEWALK EDGE PER DETAIL 11 ON C6.01.
 22. TROUGH, BACKFILL, AND AC RESTORATION CAUSD Nos. 500, 503, 503.4, 500.4, AND 500.5.
 23. INSTALL MOW-CURB PER DETAIL 18 ON C6.01.
 24. CONSTRUCT 2' VALLEY GUTTER PER DETAIL 5 ON C6.01.
 25. REMOVE AND REPLACE WALL AS NECESSARY TO PROVIDE 2' TALL X 15" WIDE WALL OPENING PER STRUCTURAL DETAILS. BOTTOM OF OPENING TO BEG AT ELEV. 78.00
 26. INSTALL MOW-CURB PER DETAIL 18 ON C6.01.
 27. INSTALL $050 = 8"$ RIP RAP. THICKNESS (T) = $16"$
 28. CONSTRUCT CONCRETE SECTION PER CAUSD. NO. 234.
 29. INSTALL CEMENT 1 HANDICAP RAMP PER CAUSD NO. 235. $A=6.5"$, $B=6.5"$
 30. REMOVE EXISTING CURB, GUTTER AND SIDEWALK AND INSTALL CEMENT 1 HANDICAP RAMP PER CAUSD NO. 235. $A=8"$, $B=8"$
 31. INSTALL PRE-CAST BUMPER BLOCK 2' FROM FACE OF CURB PER CAUSD NO. 238 AND DETAIL 4 ON

CONTRACTOR TO ADJUST ALL EXISTING UTILITIES TO MATCH

FLOOD ZONE NOTE:

AREAS, NEVADA. COMMUNITY PANEL NUMBER: 32003C2165D

EFFECTIVE DATE: NOVEMBER 16, 2011. THE PROJECT SITE IS WITHIN ZONE "X" (UNSHADED), DESCRIBED BY FEMA AS: "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

11-28-18

NAME: GUY M. MORRIS PE # 14526 DATE 11-27-79

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.

A.P.N.:
139-31-203-001

CITY OF LAS VEGAS BENCHMARK NO. 2LV0131NW6

BEING A RIVET AND PLATE TOP OF N. SIDE OF MEADOWS LA
1/4 E. OF DECATUR BLVD.
ELEVATION: 2,180.68 FEET / 664.67362 METERS
NAVD '88

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 REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

AVOID HITTING UNDERGROUND TRAFFIC

utility lines. It's costly.

Call
Before You
Overhead

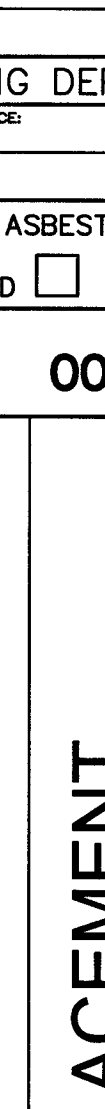
1-702-227-2929 FREEWAY AND ALTERNATE SYSTEM OF TRANSPORTATION 1-800-227-260

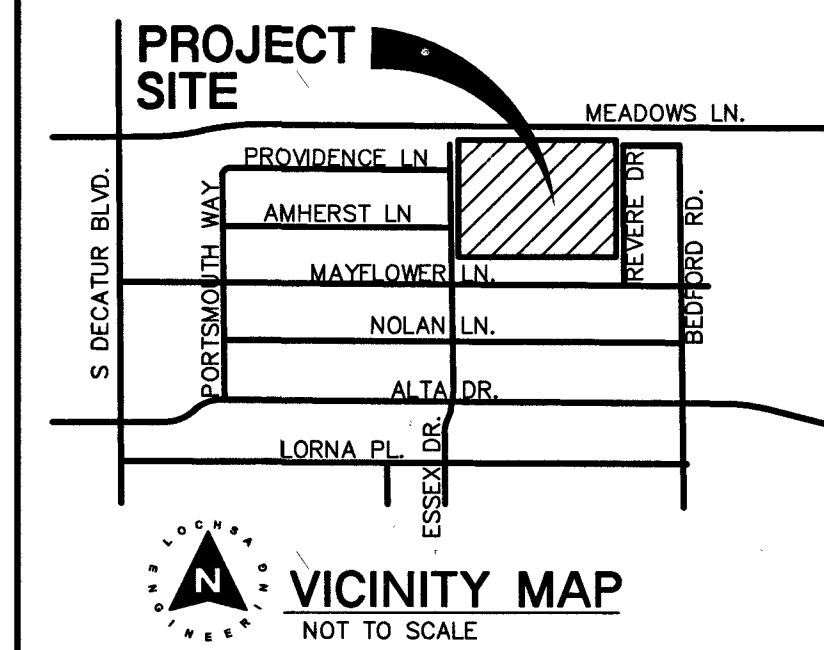
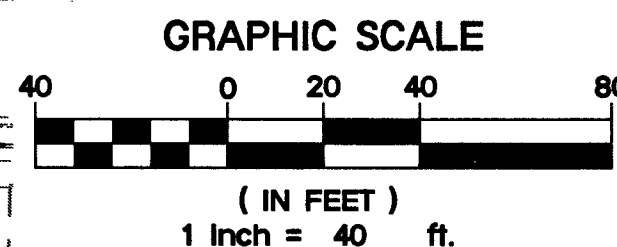
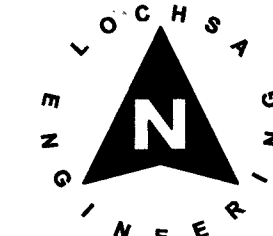
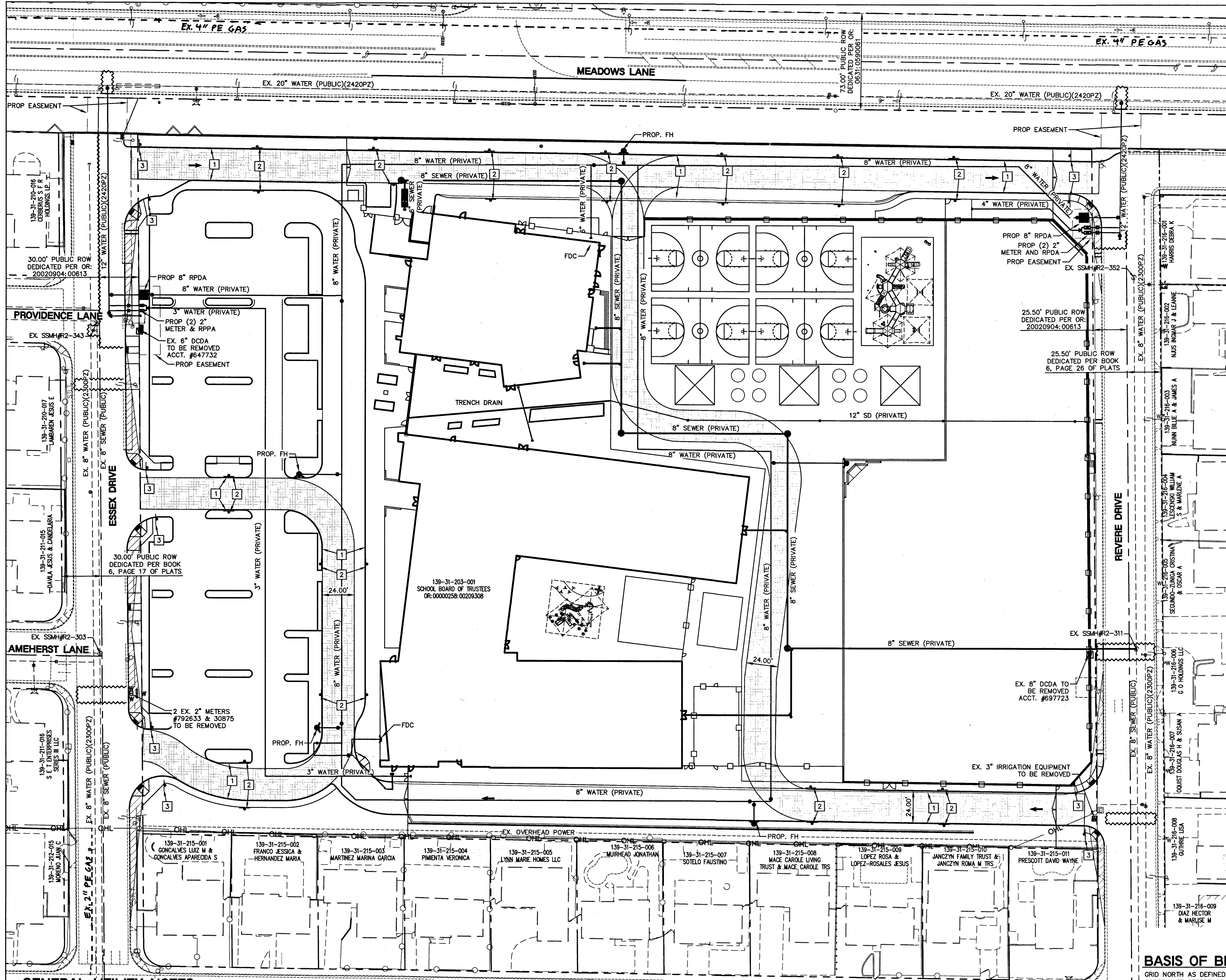
FAN OUTS	UTILITY BOX	BACKWATER	100w HPS	150w HPS
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LEAN OUTS	OR VAULT	VALVES	STREETLIGHTS	STREETLIGHT

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REV.		DESCRIPTION:		DATE:	
		DATE: 11-29-18 DRAWN BY: NNG SUBMITTAL: CLV SUBMITTAL A/E PROJECT NO. 171208			
SEAL: 11-29-18					
A/E: 3883 Howard Hughes Pkwy Suite 650 Las Vegas NV 89169 Tel: 702.893.2800 Fax: 702.893.2805					
CONSULTANT: Gensler					
					
6345 South Jones Blvd. Suite 100 Las Vegas, NV 89118 Phone (702) 365-9312 Fax (702) 365-9317 www.lochsa.com					
CONSTRUCTION MGMT:				DATE:	
PROJECT MANAGER:					
COORDINATOR:					
BUILDING DEPARTMENT:					
CODE COMPLIANCE:					
AHERA REVIEW:					
ASBESTOS WORK IS:					
REQUIRED ☐ NOT REQUIRED ☐					
JOB# 0001621					
CLARK COUNTY SCHOOL DISTRICT CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710					
PROJECT: E.W. GRIFFITH ES REPLACEMENT					
DRAWING TITLE: GRADING PLANS SHEET 2 OF 2					
FACILITY: 412					
SHEET NO:					
L18-02469 C4.02 715-212 SHEET 9 of 17					



FIRE LANE NOTES:

1. PAINT ENTIRE FACE OF CURB RED PER STANDARDS.
2. INSTALL FIRE SIGN ① A MAXIMUM DISTANCE OF EVERY 100' ALONG THE FIRE LANE PER DETAIL ON C5.01
3. ENTRANCE WARNING SIGN PER DETAIL ON C5.01

FIRE ACCESS LEGEND:

- 24' WIDE FIRE TRUCK ACCESSIBLE ROUTE
- MIN TURNING RADIUS IS 28' / 52'

FIRE FLOW CALCULATIONS

BASED ON BUILDING WITH HIGHEST DEMAND:

SQUARE FOOTAGE: CLASSROOM 78,818 SF, MP BUILDING 15,076 SF

LARGEST AREA BETWEEN 4 HR. AREA SEPARATION WALLS: N/A

BUILDING HEIGHT: CLASSROOM 41'-10" MP BUILDING 29'

NUMBER OF STORIES: 2

TYPE OF CONSTRUCTION: CLASSROOM IIB, MP BUILDING V-B

OCCUPANCY: GROUP E EDUCATION

SPRINKLER SYSTEM: YES

EXPOSURES: 4

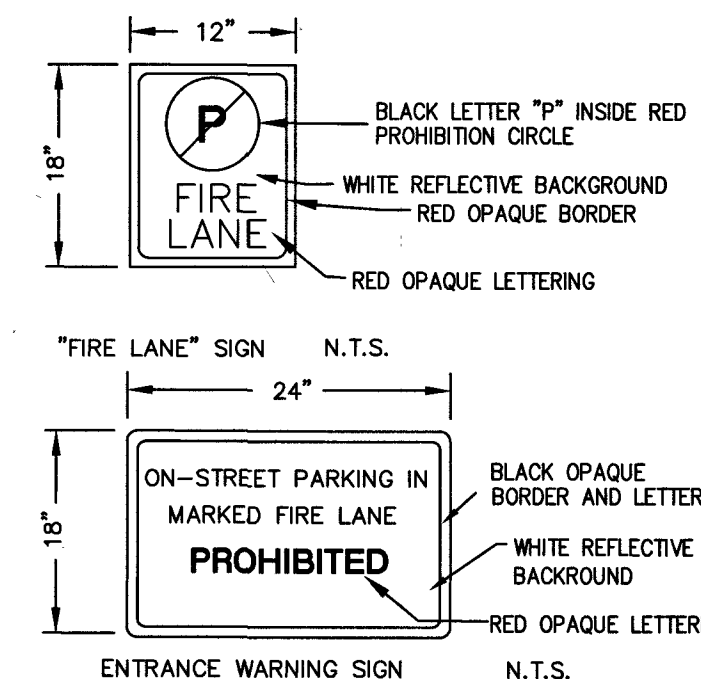
ROOF CONSTRUCTION: SINGLE PLY PVC CLASS C

FLOW REQUIRED @ 20 PSI: 3000 GPM

RESIDUAL (50% REDUCTION): N/A

MAX. STORAGE HEIGHT: 2420

PRESSURE ZONE: 2420



CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

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. FIRE FLOW 3000 GPM AT 20 P.S.I. RESIDUAL.

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 135203. FIRST APPROVED DATE: 2-7-11

LVWD APPROVED FIRE FLOW 3000 GPM/ONSITE 3000 GPM.

A.P.N.:

139-31-203-001

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. 2LV0131NW6 BEING A RIVET AND PLATE TOP OF N. SIDE OF MEADOWS LANE 1/4 E. OF DECATUR BLVD.

ELEVATION: 2180.68 FEET / 664.67362 METERS

NAVD 88

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.

SAFETY ALERT

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1-702-227-2929 1-702-432-5300 1-800-227-2800

BASIS OF BEARINGS:

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

ZONE: LAS VEGAS ELEVATION ZONE

DATUM (REFERENCE FRAME): NAD 1983(2011) EPOCH 2010.0

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

PROJECTION: TRANSVERSE MERCATOR

STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N

LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W

NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.6667 FEET US)

EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET US)

SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

NOTES:

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

SOUTHWEST GAS CORPORATION

BY: *Chris* DATE: 12/3/18

NOTE:

PROPERTY SITUATED IN PRESSURE ZONE 2420. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 psi. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 psi. PRVS ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF L.V.V.W.D. FACILITIES. ESN-041

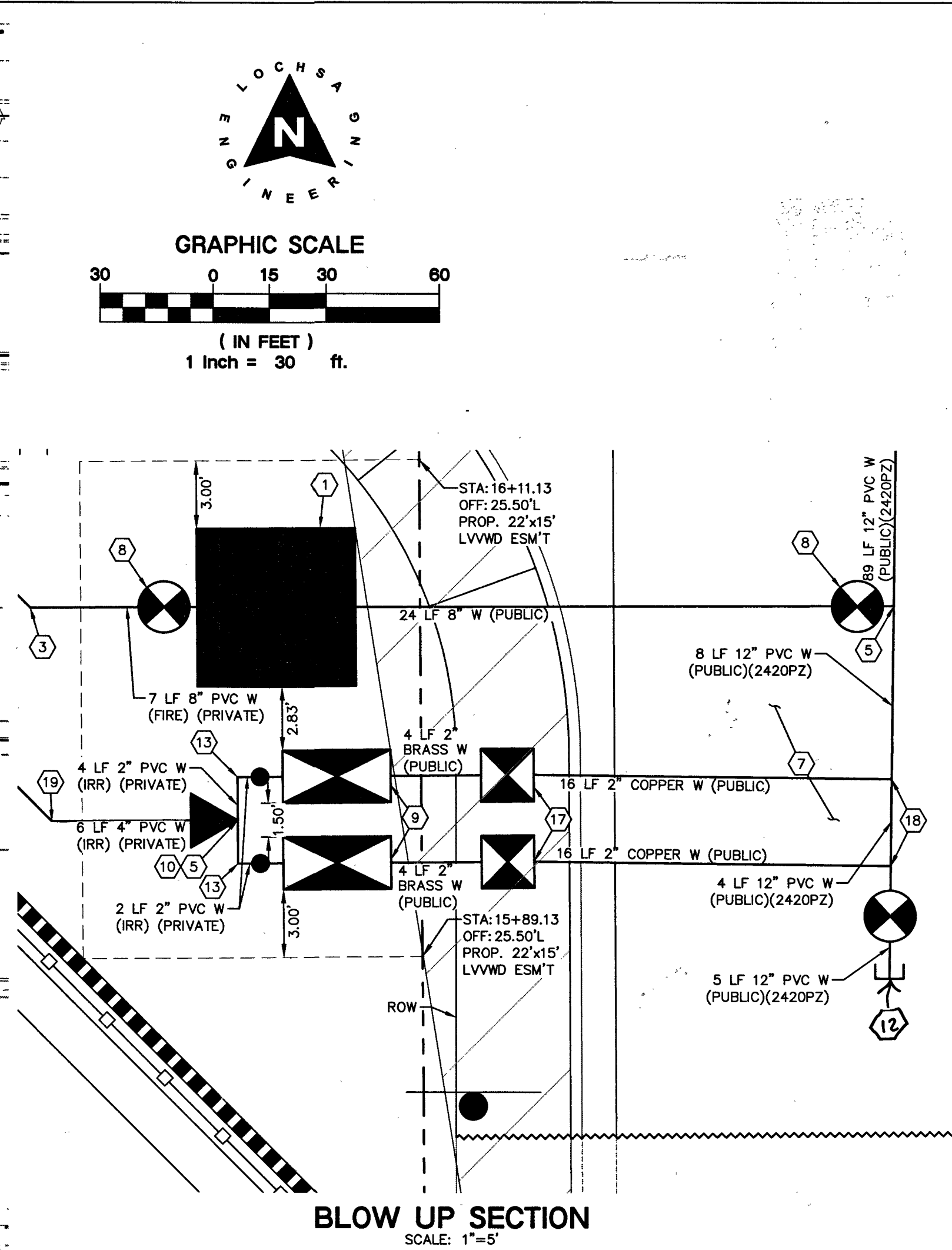
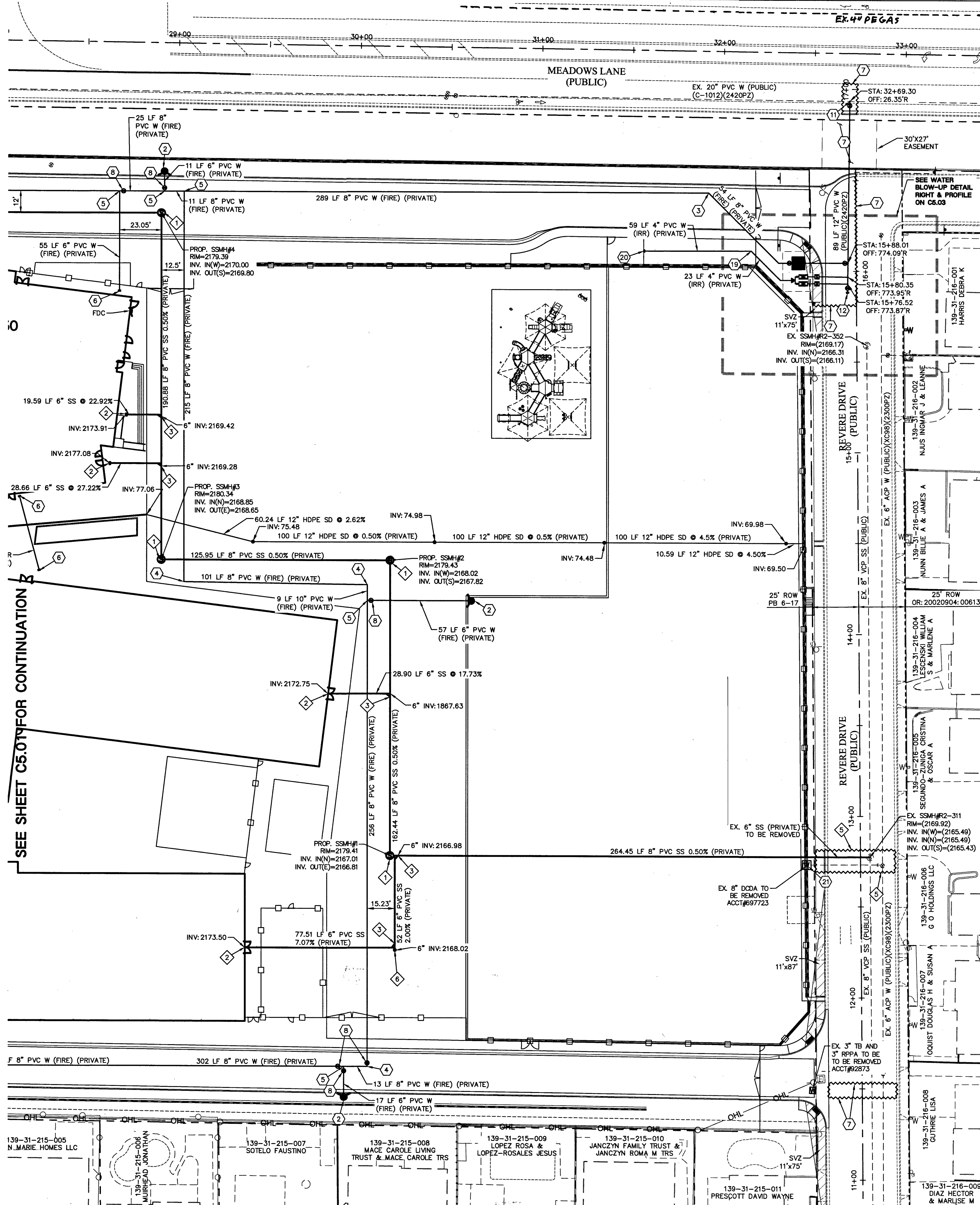
GENERAL UTILITY NOTES:

1. ALL WATER LINES 4" OR GREATER TO BE CL 150, C900 PVC. ALL WATER LINES SMALLER THAN 4" TO BE SCH. 40 PVC. ALL WATER LINES CONNECTED TO REMOTE FIRE DEPT. CONNECTIONS TO BE CL. 200, C900 PVC.
2. ALL GRAVITY SANITARY SEWER LINES TO BE SDR-35 PVC. ALL FORCE MAIN SANITARY SEWER LINES TO BE SCH. 40 PVC.
3. STATIC WATER PRESSURE IN ZONE 2420 = 104 PSI±.
4. WATER LINES TO HAVE THRUST BLOCKS CONSTRUCTED PER U.D.A.C.S. PLATE NO. 31. THRUST BLOCKS TO BE LOCATED AT ALL ANGLE FITTINGS (BENDS), TEES, AND FIRE HYDRANTS. ANCHOR BLOCKS TO BE CONSTRUCTED, PER U.D.A.C.S. PLATE NO. 30. ANCHOR BLOCKS TO BE LOCATED AT ALL IN-LINE REDUCERS AND GATE VALVES.
5. WET TAPS TO BE CONSTRUCTED IN CONFORMANCE WITH U.D.A.C.S. PLATE NO. 34.
6. THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING THAT IS REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE
7. TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER U.D.A.C.S. PLATE NO. 17.
8. TRENCH BACKFILL FOR STORM DRAIN LINES TO BE CONSTRUCTED PER D.C.S.W.C.S. DRAWING NO. SD-16.
9. ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE D.C.S.W.C.S. SECTION 2.2.18 (TYPICAL).
10. WATER AND SEWER SEPARATION OF TRENCHES MUST BE AT LEAST 10' MINIMUM (TYPICAL). SEE D.C.S.W.C.S. SECTION 2.2.21 "A1", U.D.A.C.S. SECTION 2.22.01 "A".
11. 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.
12. THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE
13. 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.
14. CONTRACTOR/OWNER TO OBTAIN C.C.P.W. OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
15. CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
16. LATERALS SHALL NOT BE CONNECTED INTO STUBS EXTENDING FROM MANHOLES. SERVICE LATERALS 6" OR SMALLER WILL NOT BE ALLOWED TO CONNECT INTO MANHOLES. SEE D.C.S.W.C.S. SECTION 2.2.19 (TYPICAL).
17. ALL EXISTING STREET LIGHTS INDICATED ON THESE PLANS ARE SHOWN FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE UNLESS NOTED WITH STATION AND OFFSET.
18. 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.
19. ALL EXISTING ELECTRICAL LINES SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY. PROPOSED ELECTRICAL LINES SHOWN ON THESE PLANS ARE FOR COORDINATION ONLY. SEE ELECTRICAL PLANS FOR CONSTRUCTION.
20. SEE LEGEND FOR EXISTING AND PROPOSED UTILITY SYMBOLS.
21. ALL DIMENSIONS TO UTILITIES LINES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
22. ALL LINEAR FEET OF STORM DRAIN AND SANITARY SEWER PIPE NOTED ON PLANS IS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

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 STREET LIGHTS	150W HPS STREET LIGHTS
	PROPERTY LINE	SAWCUT LINE	EXISTING:	-(2210)-								(12.34) BC		①	① = STORM DRAIN						(BWV)		
	ROW LINE	SCARP LINE	PROPOSED:	-2122-								34 BC		②	② = ELECTRICAL						(BWV)		
												12 BC		③	③ = TELEPHONE								

REVISIONS:	
REV.	DESCRIPTION: DATE:
11-29-18	NMC
11-29-18	CLV SUBMITAL
171208	
Gensler 3883 Howard Hughes Pkwy Suite 650 Las Vegas, NV 89169 Tel: 702.893.2800 Fax: 702.893.2805	
Lochsa Engineering 6346 South Jones Blvd. Suite 100 Las Vegas, NV 89118 Phone (702) 365-9312 Fax (702) 365-9317 www.lochsa.com	
CONSULTANT:	
CONSTRUCTION MGMT: DATE:	
COORDINATOR:	
BUILDING DEPARTMENT:	
CODE COMPLIANCE:	
ASBESTOS WORK IS:	
REQUIRED ☐ NOT REQUIRED ☐	
JOB# 0001621	
CLARK COUNTY SCHOOL DISTRICT CONSTRUCTION MANAGEMENT 1180 MILITARY TRIBUTE PL. HENDERSON NV 89074. PHONE: 702-799-8710	
PROJECT: E.W. GRIFFITH ES REPLACEMENT	
DRAWING TITLE: UTILITY PLANS - OVERALL	
FACILITY: 412	
SHEET NO: 18-02469 C5.00 715-212	
SHEET 100F 17	

PROJ# 135203A QS-139-31-NW



EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL OR FENCE
TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW PREVENTER, ASSEMBLY, AND PIPING FROM THE ADJACENT RIGHT OF WAY.

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

WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCD/RPDA INSTALLATIONS:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE WATER AT ANY TIME.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 2"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE 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) 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.

NOTE:
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (2) 8"
THE REDUCED PRESSURE DETECTOR ASSEMBLY(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. 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.

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.

SOUTHWEST GAS CORPORATION
12/2/18

BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

ZONE: LAS VEGAS ELEVATION ZONE
DATUM (REFERENCE FRAME):
NAD 1983(2011) EPOCH 2010.0
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00"N
LONGITUDE OF CENTRAL MERIDIAN: 114°58'00"W
NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.667 FEET US)
EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.333 FEET US)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

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

PROJECT SITE

VICINITY MAP

WATER CONSTRUCTION NOTES:

SEWER CONSTRUCTION NOTES:

REVISIONS:

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-795-8710

PROJECT: E.W. GRIFFITH ES REPLACEMENT

DRAWING TITLE: UTILITY PLANS SHEET 2 OF 2

FACILITY: 412

UTILITY PLANS SHEET 2 OF 2

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-795-8710

PROJECT: E.W. GRIFFITH ES REPLACEMENT

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UTILITY PLANS SHEET 2 OF 2

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-795-8710

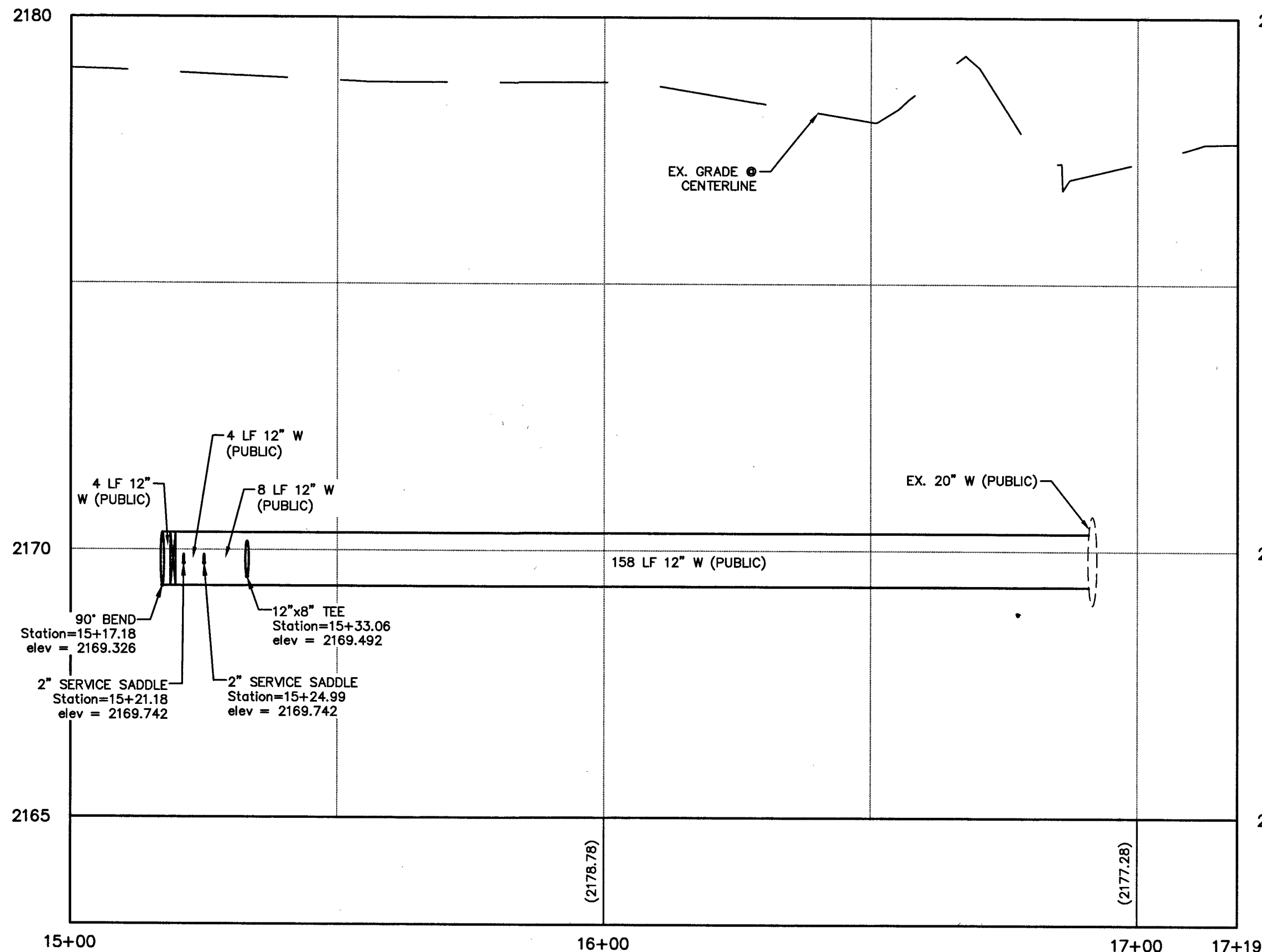
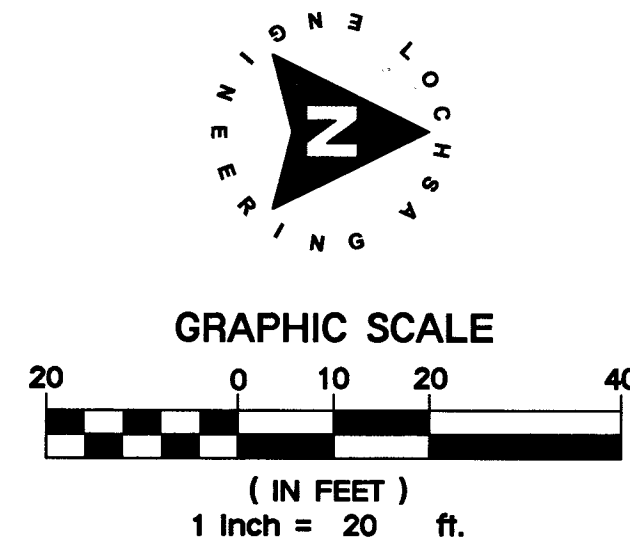
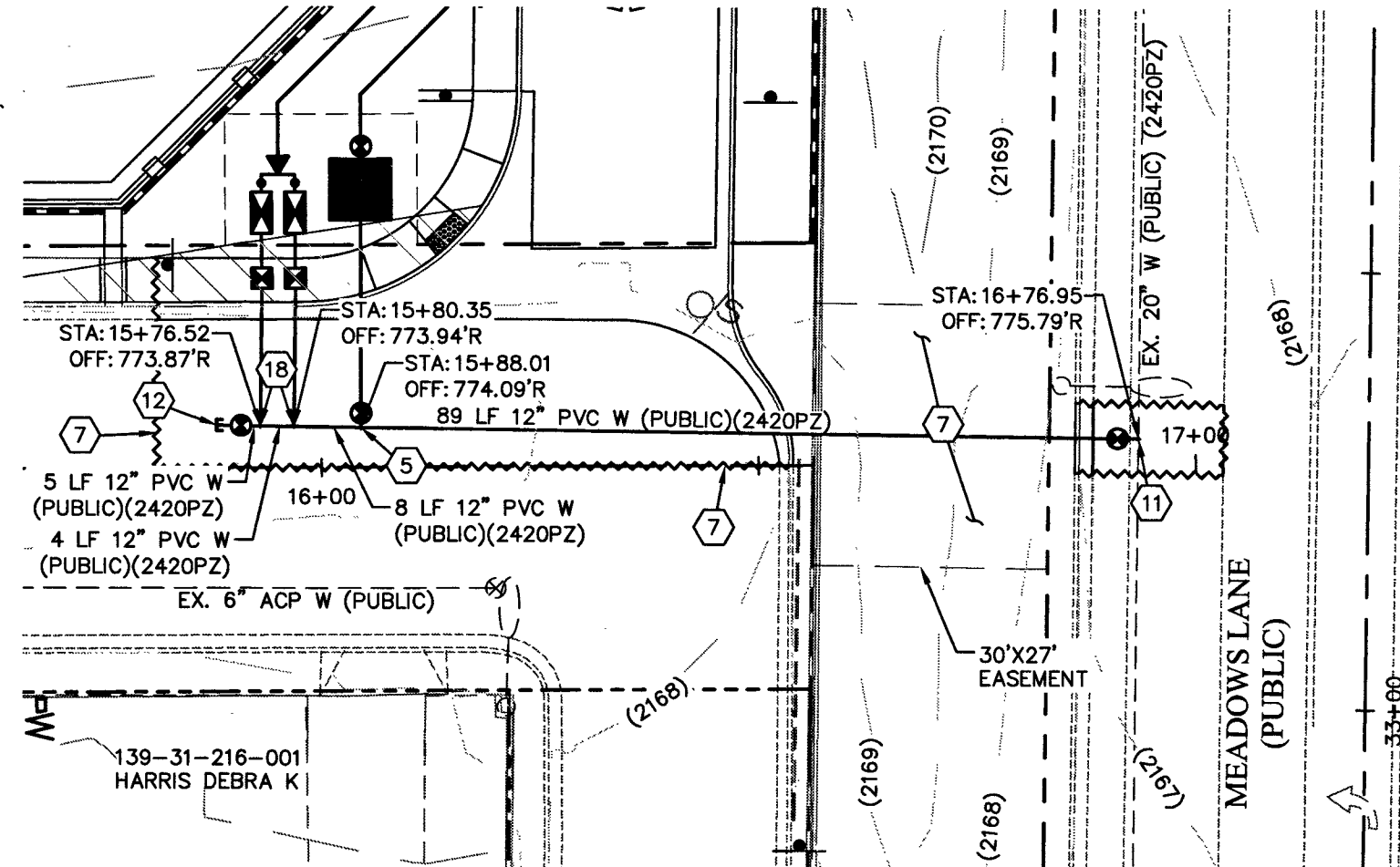
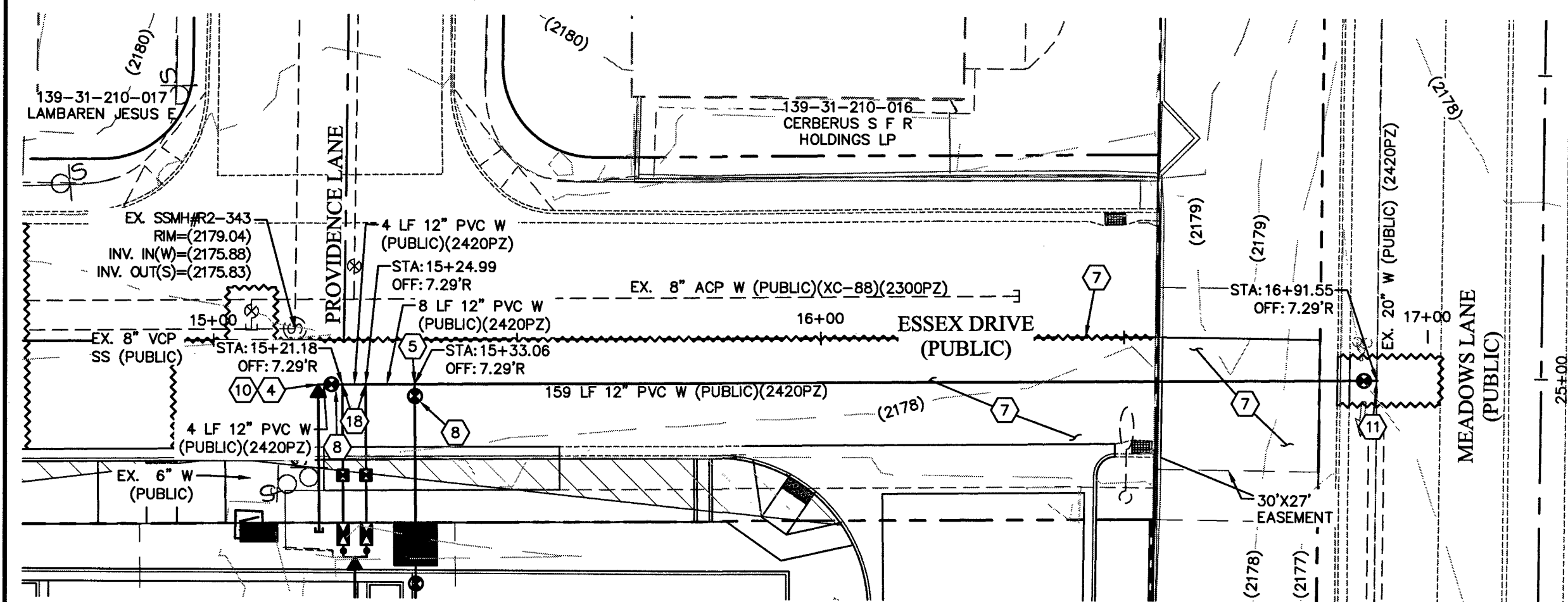
PROJECT: E.W. GRIFFITH ES REPLACEMENT

DRAWING TITLE: UTILITY PLANS SHEET 2 OF 2

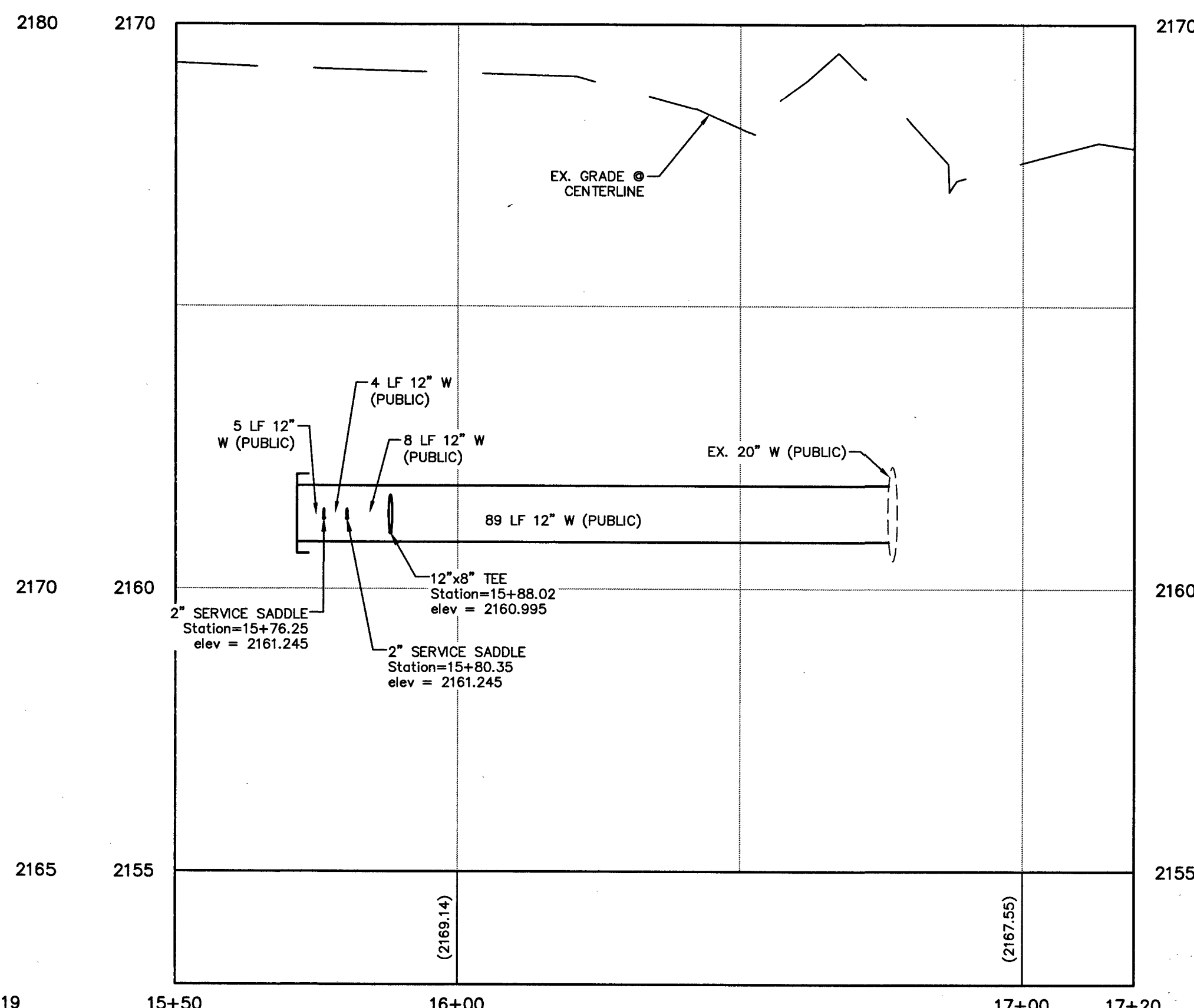
FACILITY: 412

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 STRAIGHTS	150W HPS STRAIGHTS
CL OR SURVEY LINE	EASEMENT LINE	EXISTING: (2210) PROPOSED: (2122)	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 STRAIGHTS	150W HPS STRAIGHTS

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ESSEX DRIVE PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'



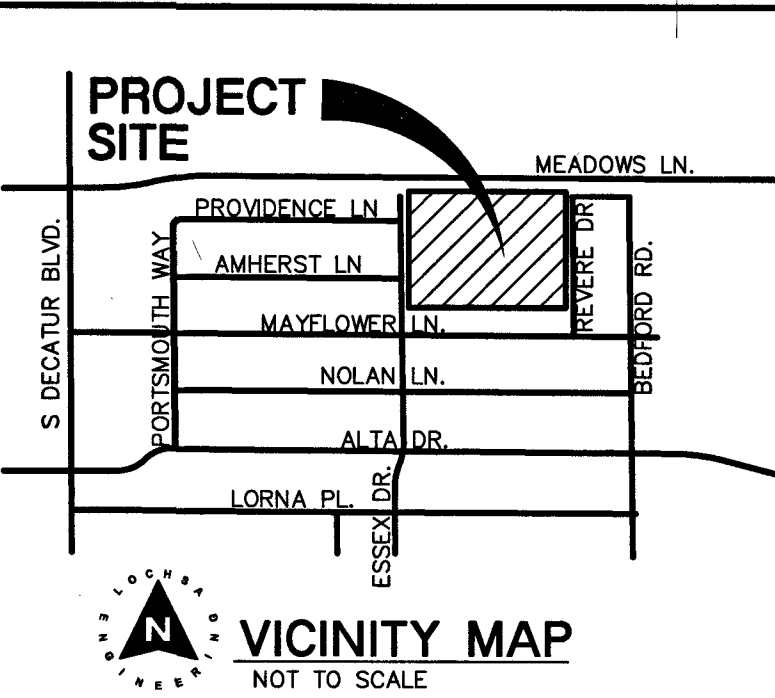
REVERE DRIVE PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

BASIS OF BEARINGS:

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

ZONE: LAS VEGAS ELEVATION ZONE
DATUM (REFERENCE FRAME):
NAD 1983(2011) EPOCH 2010.0
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NORTHING AT GRID ORIGIN: 200,000.00 M (656,166.6667 FEET US)
EASTING AT CENTRAL MERIDIAN: 100,000.00 M (328,083.3333 FEET US)
SCALE FACTOR ON CENTRAL MERIDIAN: 1.0001 (EXACT)

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



WATER CONSTRUCTION NOTES:

- ALL WATER CONSTRUCTION SHALL 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 8" RPPA PER UDACS PLT 56, (AMES - COLT 500N).
 - INSTALL FIRE HYDRANT W/GATE VALVE PER UDACS PLATE NO. 40.
 - INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
 - INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
 - INSTALL TEE (SAME SIZE AS PIPES) W/ THRUST BLOCK PER UDACS NO. 31.
 - STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
 - SAWCUT, TRENCH AND BACKFILL PER UDACS PLATE NO. 17. REPLACE CURB, GUTTER AND SIDEWALK AS NECESSARY.
 - INSTALL GATE VALVE PER UDACS PLATE NO. 39 AND 30 (SAME SIZE AS PIPE).
 - INSTALL 2" RPPA (IRRIGATION) WITH ENCLOSURE PER UDACS PLATE NO. 8.
 - INSTALL REDUCER (SAME SIZE AS PIPES) W/ ANCHOR BLOCK PER UDACS PLATE NO. 30.
 - INSTALL 20"x12" TAPPING SLEEVE W/ 12" TAPPING VALVE PER UDACS PLATE NO. 34.
 - INSTALL CAP AND BLOW-OFF ASSEMBLY (SAME SIZE AS PIPE) PER UDACS PLATE NO. 36.
 - INSTALL 90° BEND (SAME SIZE AS PIPE).
 - INSTALL POST INDICATOR VALVE.
 - INSTALL CHECK VALVE.
 - INSTALL 2" RPPA WITH ENCLOSURE PER UDACS PLATE NO. 8 AND CURB STOP AFTER RPPA.
 - INSTALL 2" WATER METER PER UDACS PLATE NO. 4.
 - INSTALL SERVICE SADDLE CONNECTION (SAME SIZE AS PIPE) WITH CORP. STOP PER UDACS PLATE NO. 4.
 - INSTALL 45° BEND (SAME SIZE AS PIPE).
 - STUB & CAP WATER SERVICE. REFER TO IRRIGATION PLANS FOR CONTINUATION.
 - REMOVE EX. METER AND ABANDON LATERAL PER UDACS SEC. 2.17.04.

NOTE:

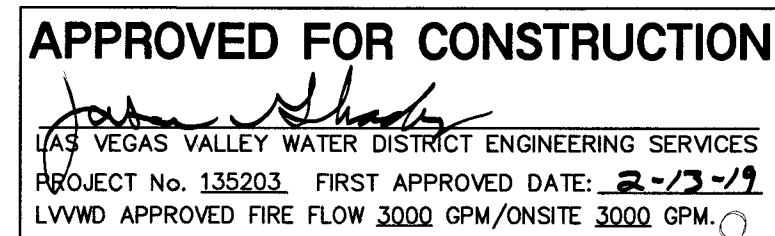
THIS PROPERTY MAY HAVE STATIO WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

NOTE:

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

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.



A.P.N.:

139-31-203-001

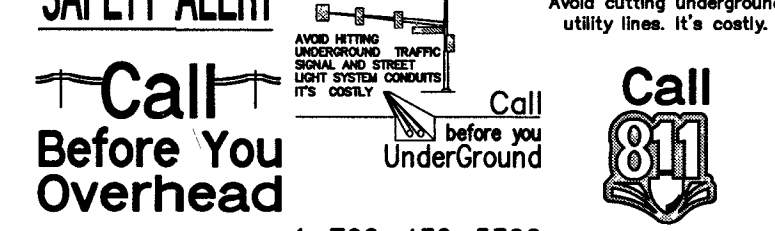
BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. 2LV0131NW6 BEING A RIVET AND PLATE TOP OF N. SIDE OF MEADOWS LANE 1/4 E. OF DECATUR BLVD.
ELEVATION: 2,180.68 FEET / 664.67362 METERS
NAVD '88

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.

SAFETY ALERT



1-702-227-2929 1-702-432-5300

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
	PROPERTY LINE	SAWCUT LINE	EXISTING:	---	---	---	---	---	---	---	---	(12.34) BC	---	---	---	---	---	---	---	---	---	---	---
	ROW LINE	SCARP LINE	PROPOSED:	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

REVISIONS:

REV.	DESCRIPTION	DATE

PROJECT SITE

VICINITY MAP

NOT TO SCALE

SEAL

GUY M. MORRIS

CIVIL

No. 14558

11-29-18

3883 Howard Hughes Pkwy

Suite 650

Las Vegas NV 89169

Tel: 702.893.2800

Fax: 702.893.2805

Gensler

CONSULTANT:

CONSTRUCTION MGMT:

DATE:

COORDINATOR:

BUILDING DEPARTMENT:

ASBESTOS WORK IS:

REQUIRED ☐ NOT REQUIRED ☐

JOB#

0001621

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL. HENDERSON NV 89074 PHONE: 702-799-8710

PROJECT

E.W. GRIFFITH ES REPLACEMENT

DRAWING TITLE:

UTILITY PLANS WATER PLAN AND PROFILE

FACILITY:

412

SHEET NO:

118-02469 C5.03 715-212

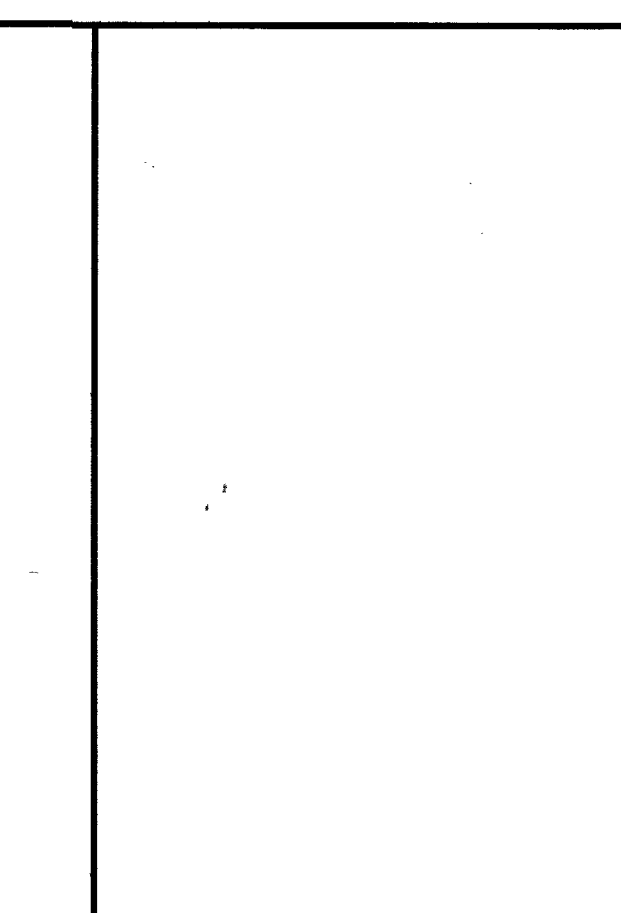
SHEET 13 OF 17

PROJ# 135203A QS-139-31-NW





REV. #		DESCRIPTION	DATE
1		REVISED CONCRETE TO RIP-RAP	4/10/19
		Δ APPD BY: Jm 5/15/19	
		DATE: 05/14/19	DATE: 05/14/19
SEAL: PROFESSIONAL ENGINEER STATE OF NEVADA GUY M. MORRIS EXP. 12-31-19 CIVIL No. 14526 05-14-19		DRAWN BY: NMG	REVISION 1
		SUBMITTAL	A/E PROJECT NO. 171208
3883 Howard Hughes Pkwy Suite 650 Las Vegas NV 89169 Tel: 702.893.2800 Fax: 702.893.2805		Gensler CONSULTANT:	
Lochsa engineering 6345 South Jones Blvd. Suite 100 Las Vegas, NV 89118 Phone (702) 385-5932 Fax (702) 385-9317 www.lochsa.com		A/E:	
CONSTRUCTION MGMT:		DATE:	
PROJECT MANAGER:			
COORDINATOR:			
BUILDING DEPARTMENT:			
CODE COMPLIANCE:			
ARCHIT. REVIEW:			
ASBESTOS WORK IS:			
REQUIRED ☐		NOT REQUIRED ☐	
JOB# 0001621			
CLARK COUNTY SCHOOL DISTRICT CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL HENDERSON NV 89074 PHONE: 702-799-8710			
PROJECT: E.W. GRIFFITH ES REPLACEMENT			
DRAWING TITLE: DETAIL SHEETS DETAIL SHEET 2 OF 2			
FACILITY: 412			
SHEET NO: L18-02469 C6.02 7/5-212			
SHEET 15 OF 17			



CONSULTANT:

Gensler

3883 Howard Hughes Pkwy
Suite 650
Las Vegas NV 89169
Tel: 702.893.2800
Fax: 702.893.2805

3 CMU WALL INTERSECTIONS

SINGLE CURTAIN HORIZONTAL BAR

HORIZONTAL REBAR CENTERED IN WALL

DOUBLE CURTAIN HORIZONTAL BAR

HORIZONTAL REBAR IN CONTACT WITH VERTICAL REBAR

SINGLE CURTAIN HORIZONTAL BAR

HORIZONTAL REBAR IN CONTACT WITH VERTICAL REBAR

END OF WALL

STD 180° HOOK

2-#5 VERT

U-BARS TO MATCH WALL REINF, TYP

TENSION LAP SPICE

PLAN

PROVIDE SASH BLOCKS AT CONTROL JOINTS FILL W/ POLYSULFIDE SEALANT EACH SIDE

TYPICAL JOINT WIDTH

#5 BARS UNO

PREFORMED RUBBER FILLER

STOP HORIZ REINF EXCEPT AS NOTED BELOW

NOTES:

- CONTRACTOR SHALL OBTAIN ARCHITECT'S APPROVAL OF JOINT LOCATIONS, WHICH SHALL NOT EXCEED 24'-0" O.C.

WALL CONTROL JOINT

DETAILS:

- 90° STD H
- D=6d FOR #3 TO #8
- D=8d FOR #9 TO #11
- D=10d FOR #14 & #18

MIN. DIMENSIONS:

- MIN. D=1 1/2" F
- MIN. D=2" F
- MIN. D=2 1/2" F

MASONRY WALL DETAILS

12" CMU	5/8"	9.25	9
16" CMU	5/8"	13.25	13

NOTE:
 1. Where vertical reinforcing bars occur by a bar positioner at the top of 200 diameters.

5

PLAN DETAIL FOR

General

1. The Contractor shall verify all dimensions prior to starting construction. The Architect shall be notified of any discrepancies or inconsistencies.
2. Structure noted in the drawings as existing shall be field verified by the Contractor and any discrepancies noted shall be reported to the Architect/Civil Engineer.
3. Do not scale the drawings.
4. Notes and details on the drawings shall take precedence over these general notes, typical details, and the project specifications.
5. Typical details and schedules indicated may not be specifically referenced on the drawings. The Contractor is responsible to determine where each typical detail or schedule applies. If locations are found where no typical detail, typical schedule, or specific detail applies, notify the Architect/Civil Engineer.

shoring, bracing and erection procedures complying with national, state and local safety ordinances. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to: bracing and shoring for loads due to hydrostatic, earth, wind or seismic forces, construction equipment, etc.

8. Observation visits (site visits) by representatives of Architect/Civil Engineer do not include inspection of construction means and methods. Site visits during construction are not continuous and detailed inspection services which are to be performed by others. Observations are performed solely for the purpose of determining if the Contractor understands design intent shown in the contract drawings. Observations do not guarantee Contractor's performance and are not to be construed as supervision or verification of construction.

9. Notify the Civil Engineer when drawings by others show openings, pockets, etc., not shown on the structural drawings, but which are located in the structural members.

10. All specifications and codes noted shall be the latest approved editions and revisions by the governmental agency having jurisdiction over this project.

11. Contractor shall investigate the site during clearing and earth work operations for filled excavations or buried structures such as cesspools, cisterns, foundations, utilities, etc. If any such structures are found, the Civil Engineer shall be notified immediately.

12. IBC Lateral Loads

Wind Design Data:	
Basic Wind Speed	Vult = 115 mph
	Vsrd = 90 mph
Risk Category	II
Exposure	C

Earthquake Design Data:	
Risk Category	II
Seismic Importance Factor	Ie = 1.00
Mapped Spectral Response Acceleration Parameters	
Ss	0.467g
S1	0.162g
Site Class	C
Design Spectral Response Acceleration Parameters	
Ses	0.373g
Ss1	0.177g
Seismic Design Category	C

13. ACI 318-11 Table 4.3.1 Sulfate Exposure (See General Notes – Concrete Item #3 for concrete water cement ratio limits):

S1
(Moderate)

- (c) Entrained air content in compliance with ASTM C231 for air entrained concrete.
2. Bolts and embedded plates installed in concrete.
3. Reinforcing and mechanical reinforcing bar splices:
 - (a) During placement.
 4. Structural Masonry
 5. Excavation and back-filling.

Foundation	
1. The design of the foundation system is based on the geotechnical report (and any addenda) prepared by the following company:	
Company:	NINYO & MOORE
Report no:	PROJECT NO. 304289001
Dated:	APRIL 20, 2018
Copies are available for review at the Architect's office and Contractor shall have a copy at the jobsite.	
2. The foundation system is designed based on the following:	
Allowable Soil Bearing Pressure	
Continuous Footings	2400 psf *
Spread Footings	
Equivalent Fluid Pressure Unconstrained	37 pcf
Possible Pressure	300 pcf
Friction Coefficient	0.620
A 1/3 increase is allowed for seismic or wind loading where asterisk (*) is indicated.	
3. The Contractor shall provide for proper dewatering of excavations from surface water, ground water, seepage, etc.	
4. The Contractor shall provide for the installation and design of all cribbing, sheathing and shoring required to safely and adequately retain the earth banks and support any existing structures in accordance with all national, state and local safety ordinances.	
5. All abandoned utilities, footings, etc., that interfere with the new construction shall be removed. Notify the Structural Engineer should any foundations for existing structures be encountered that are not shown on the structural drawings.	
6. Footings shall be placed and estimated according to depths shown on the drawings. Excavations for footings shall be approved by the Geotechnical Engineer prior to placing the concrete and reinforcing. The Contractor shall notify the Geotechnical Engineer when the excavations are ready for placement. The Geotechnical Engineer shall submit a letter of compliance to the Owner. Should soil encountered at these depths not be approved by the Geotechnical Engineer, footing elevations or footing designs will be altered by change order.	
7. All excavations shall be properly backfilled. Footing backfill and utility trench backfill within the building perimeter shall be mechanically compacted in layers, to the approval of the Geotechnical Engineer. See geotechnical report for requirements. Flooding will not be permitted.	
8. Sub-base below, slabs on grade shall be supported on natural grade or structural fill as directed in the geotechnical report. See typical details and geotechnical report for vapor barrier and sub-base requirements.	

7 BAR BENDS

Concrete

1. All aspects of work pertaining to the concrete construction shall be in accordance with ACI 318-11, "Building Code Requirements for Structural Concrete" and the latest edition of "Specifications for Structural Concrete for Buildings", ACI 301, with modifications as noted on the project drawings and/or specifications.
2. Concrete mix designs shall be submitted to the Structural Engineer for review. All mix designs shall be designed by a qualified testing laboratory and shall be wet stamped by a Civil Engineer licensed in the State of Nevada. Base design mix on field experience or trial mixtures as stipulated in IBC Section 1905.3
3. Portland cement shall conform to ASTM C150 Type V where the concrete is in contact with soil. Concrete shall be exposed to sulfate - containing solutions shall comply with IBC Section 1904.3. Severe (S2) and Very Severe (S3) sulfate exposures as identified in the project geotechnical report, the water cement ratio shall not exceed 0.45 and shall not exceed 0.50 for Moderate (S1) sulfate exposure. Type II cement shall be used at all other locations in the structure.
4. Fly ash may be used in concrete mixes. The fly ash shall conform to ASTM C618 Class F. The loss of ignition shall be limited to 2%. The addition rate for fly ash shall be limited to 15% of the cement weight. The contractor shall submit all certificates showing the fly ash is in accordance with the above criteria.
5. Do not use concrete or grout containing chlorides.
6. All concrete exposed to freeze - thaw cycles shall contain 6% +/- 1% of entrained air.
7. Hard rock concrete - aggregate shall conform to all requirements and tests of ASTM C33 and project specifications. Exceptions may be used only with approval of the Structural Engineer. Provide concrete mix design with proven shrinkage characteristics of less than 0.0005 inches/inch.
8. Structural concrete 28-day strengths & types are as follows:

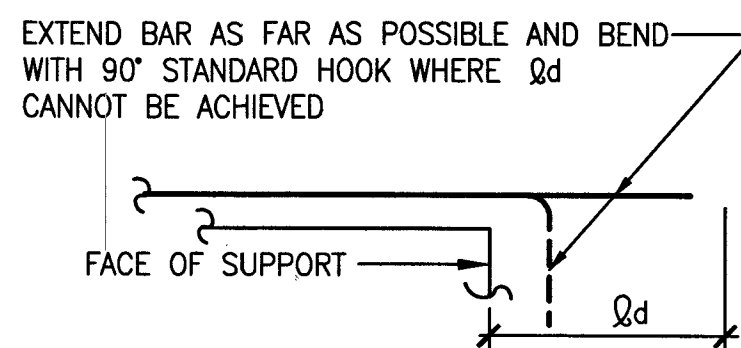
Location of Concrete	Strength, psi	Type
Footings	4,500	Hard Rock
9. The modulus of elasticity of concrete, shall be tested in accordance with ASTM C469 for framed concrete beams and beams and shall be at least the values given by the equations in section 8.15-11 of ACI 318-11 for the specified concrete 28-day strength.
10. Concrete mixing operations, etc., shall be in accordance with ASTM C94.
11. Concrete placement shall be in accordance with ACI standard 304 and project specifications. Provide keys in construction joints unless detailed otherwise. Thoroughly clean, remove laitance and thoroughly wet and remove standing water in construction joints before placing new concrete. At vertical joints, slush with a coat of neat cement before placing new concrete.
12. Roughen concrete surface to a full amplitude of 1/4 inch where masonry walls intersect concrete or where new concrete interfaces with existing concrete.
13. Clear coverage of concrete over reinforcing bars shall be as follows:

Location of Concrete	Minimum Concrete Cover
Concrete cast against and permanently exposed to earth	3"
Concrete exposed to earth or weather: #6 through #18 bar #5 bar and smaller	2" 1 1/2"
Concrete not exposed to weather or in contact with ground, UNO: Slobs, walls, joints: #14 and #18 bar. #11 bar and smaller.	1 1/2" 3/4"
Beams, columns: Primary reinforcing, ties stirrups, spirals.	1 1/2"
14. Prior to concrete placement, all reinforcing bars, anchor bolts and other concrete inserts shall be well secured in position.
15. Maintain concrete above 50 degrees Fahrenheit and in a moist condition for a minimum of 7 days after placement unless otherwise accepted by Architect/Structural Engineer.

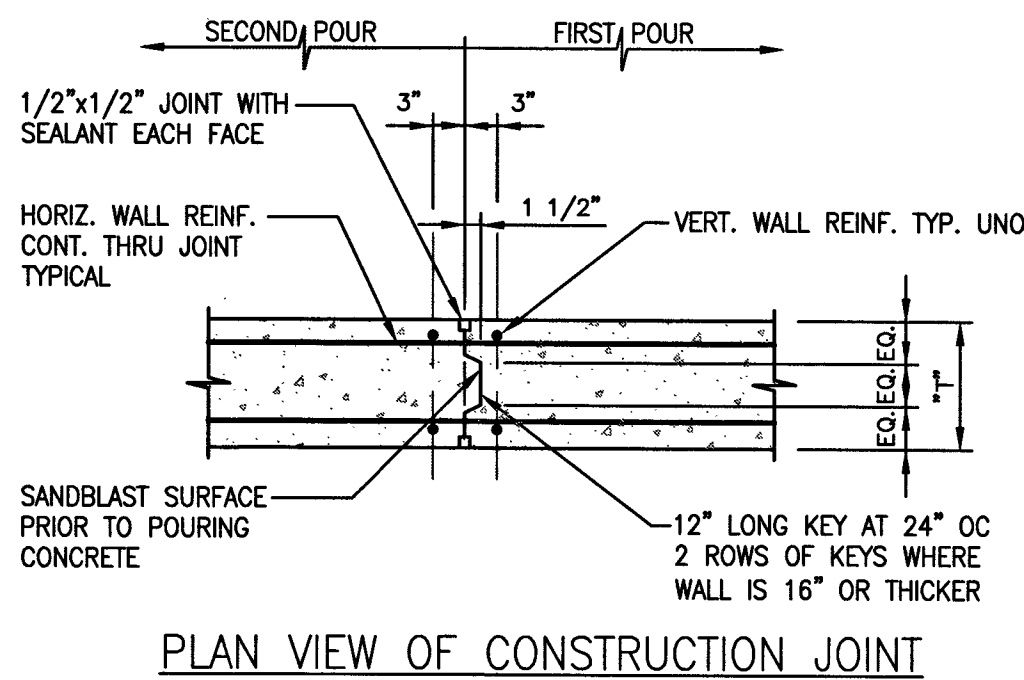
DRAWING TITLE:
DETAIL SHEETS STRUCTURAL DETAILS

BAR SIZE	f'c = 4500 psi			
	TOP BARS	CASE 1	CASE 2	OTHER BARS
#3	18	27	14	21
#4	24	35	18	27
#5	29	44	23	34
#6	35	53	27	41
#7	51	77	40	59
#8	59	88	45	68
#9	66	99	51	76
#10	73	109	56	84
#11	80	120	62	93
#14	99	148	76	114
#18	132	197	101	152

- NOTES:
- Table for use with normal weight hardrock concrete and grade 60 uncoated reinforcing bars. For lightweight aggregate use 1.35.
 - Top bars are horizontal bars with 12" or more of concrete cast in the member below the bar.
 - For bars enclosed in standard column spirals, use 0.75 d or 12" min.
 - Development length of individual bars within a bundle shall be 1.2 d for that bar in a 3-bar bundle and 1.33 d for a 4-bar bundle.
 - Compression development length (only where indicated on drawings) For grade 60 bars use 22 bar diameters.
 - Case Selection
 - For foundation reinforcement use Case 1 uno.
 - For column reinforcement and dowels use case 1 uno.
 - For beam reinforcement use Case 1 uno.
 - For structural slab reinforcement use Case 2 uno.
 - For slab on grade reinforcement use Case 1 uno.
 - For wall reinforcement and dowels use Case 1 (Except as noted below) uno.
 - For walls with a single mat of steel centered in the wall, use Case 1 for wall reinforcement and dowels uno.
 - For chord steel reinforcement use Case 2 uno.

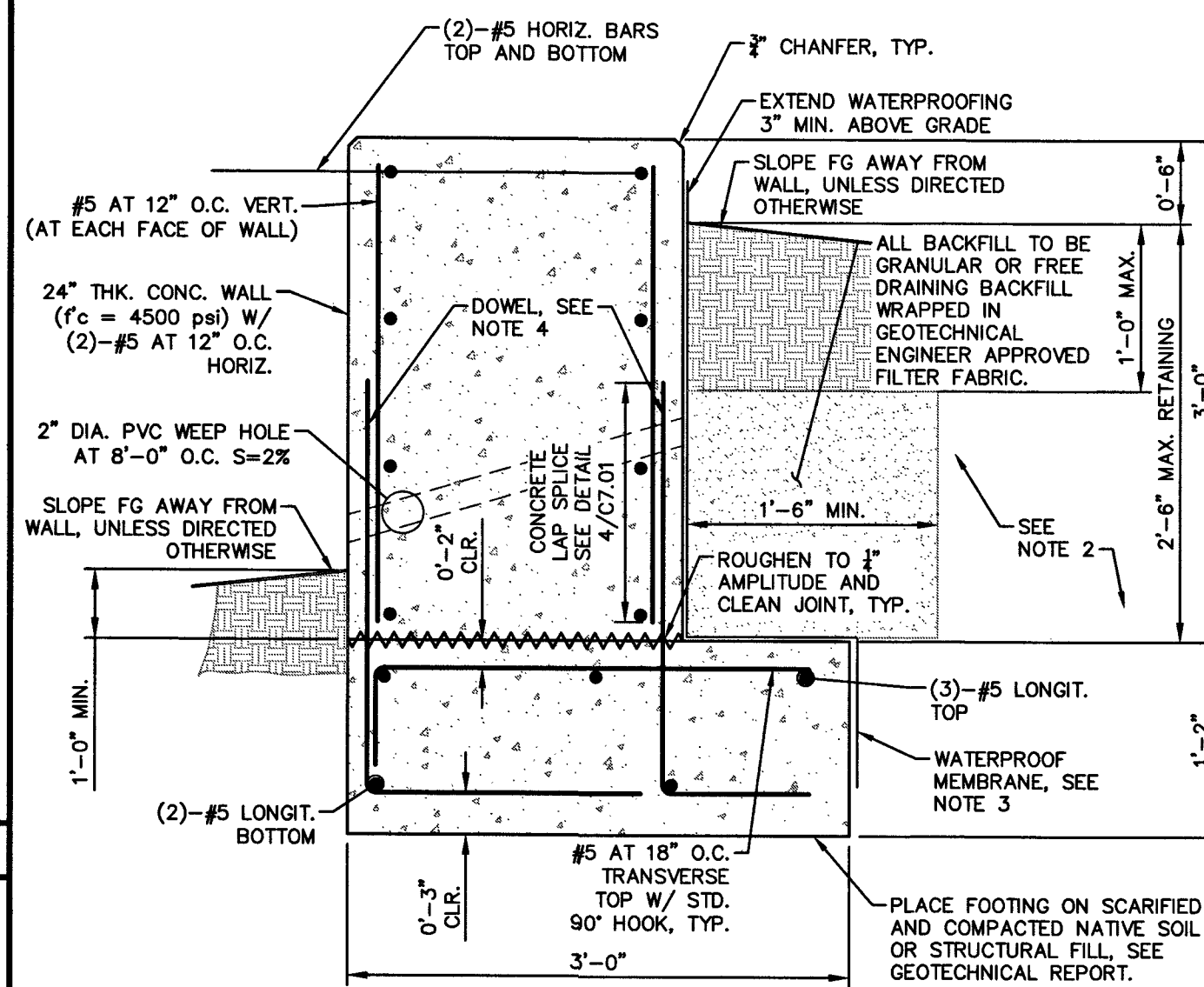


7 TENSION DEVELOPMENT LENGTH (CONCRETE ONLY) NOT TO SCALE



- NOTES:
- Provide construction joints at 40'-0" OC maximum.
 - Location of joints shall be approved by the architect prior to constructing forms or placing concrete.

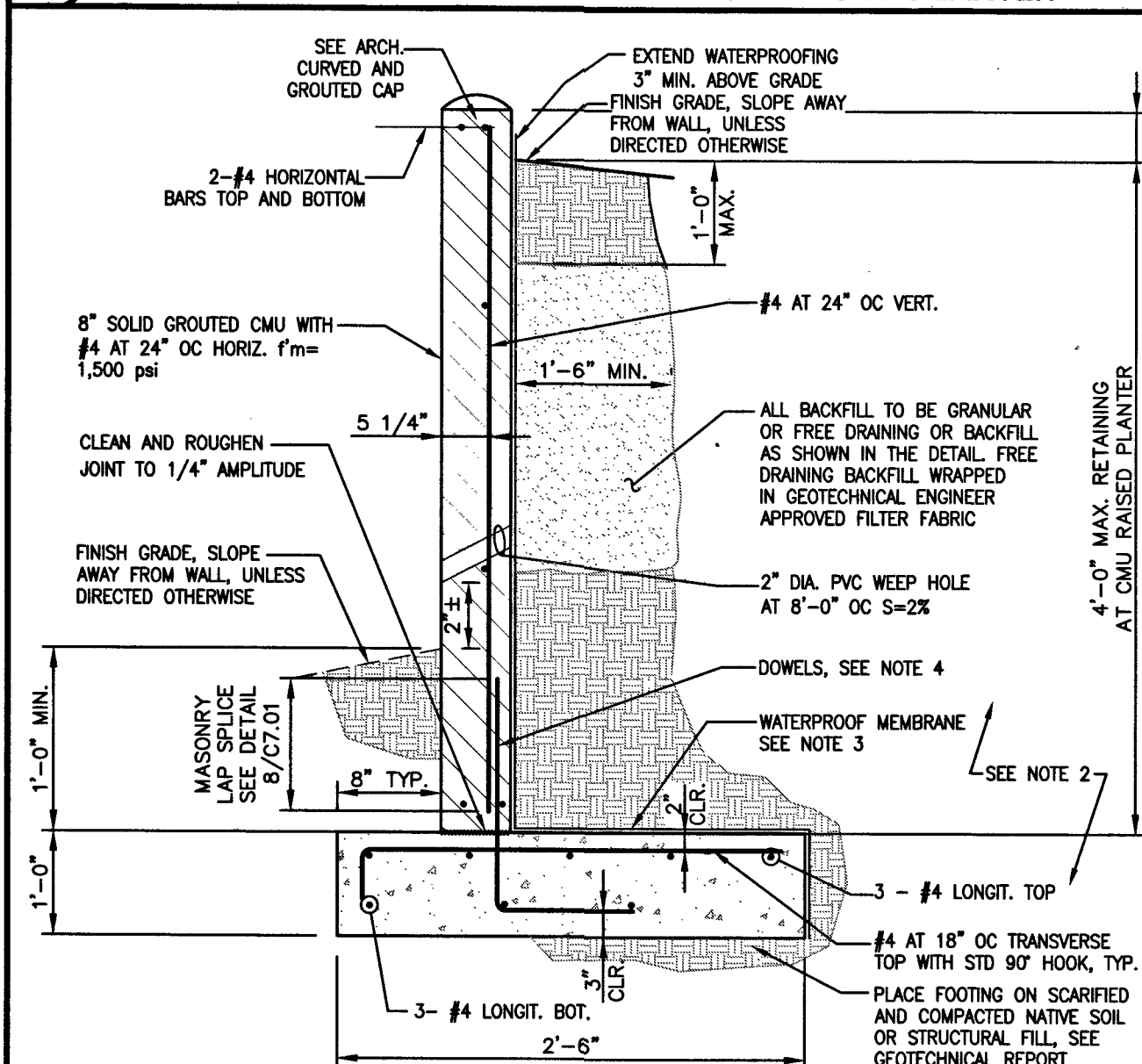
8 VERTICAL WALL CONSTRUCTION JOINT NOT TO SCALE



WALL NOTES

- NOTES:
- See detail 8/C7.02 for concrete wall control joint.
 - Structural fill, see geotechnical report for requirements.
 - Apply EOCBASE II or approved equivalent for base protection and protect with Delta MS drain fabric or approved equivalent. Extend weep holes through Delta MS drain fabric into free draining backfill. Seal all crack control/expansion joints with a backer rod and flexible joint sealant on front and back of wall.
 - Provide dowels to match size and spacing of vertical wall reinf. for lap length in concrete see detail 4/C7.01.

5 RETAINING WALL AT CONCRETE BENCH RAISED PLANTER NOT TO SCALE

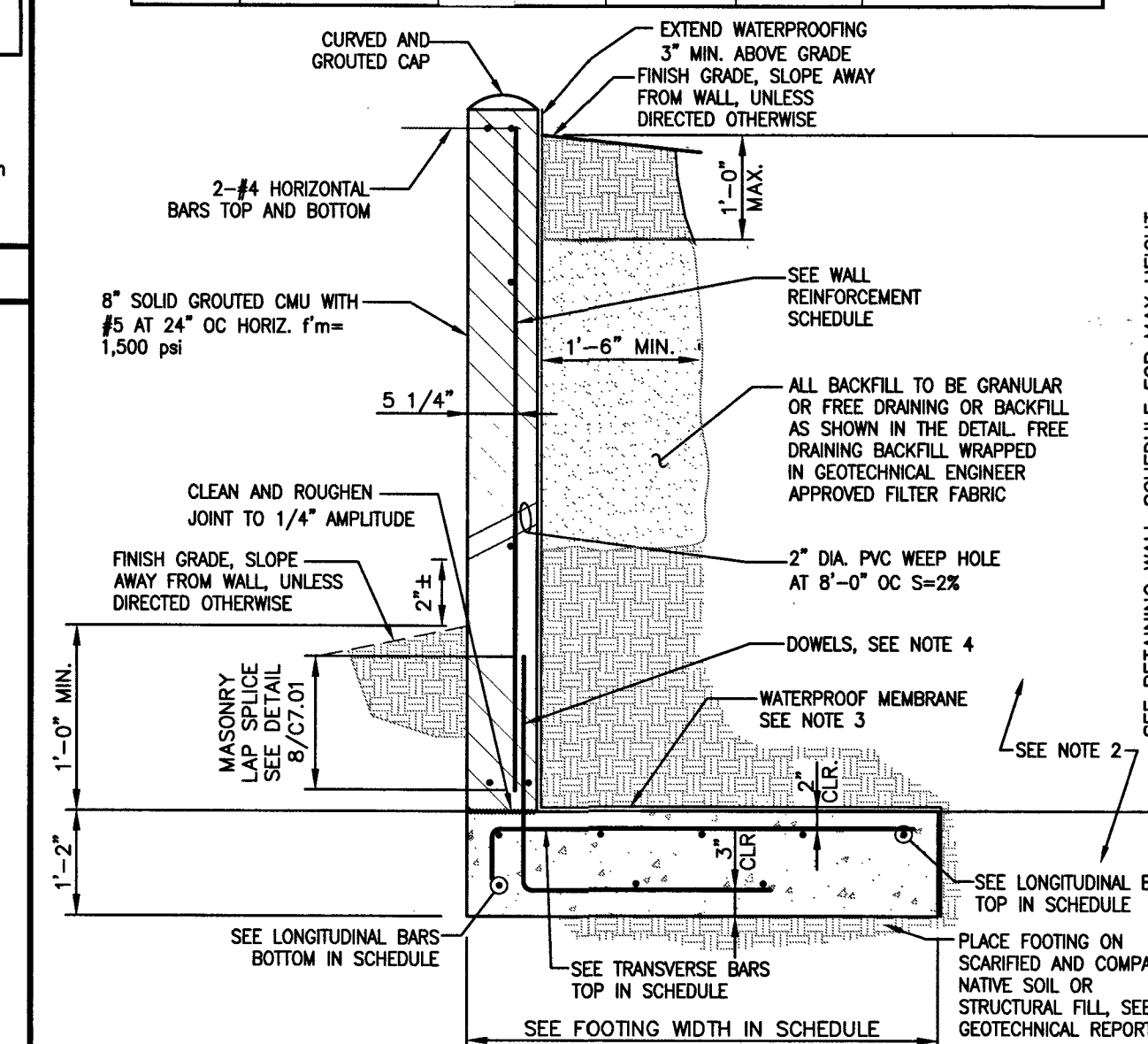


WALL NOTES

- NOTES:
- See detail 6/C7.01 for wall control joint.
 - Structural fill, see geotechnical report for requirements.
 - Apply EOCBASE II or approved equivalent for base protection and protect with Delta MS drain fabric or approved equivalent. Extend weep holes through Delta MS drain fabric into free draining backfill. Seal all crack control/expansion joints with a backer rod and flexible joint sealant on front and back of wall.
 - Provide dowels to match size and spacing of vertical wall reinf. for lap length in CMU see detail 8/C7.01.

6 RETAINING WALL ALONG RAISED PLANTER NOT TO SCALE

Retaining Wall Max Height	Wall Reinforcement	Footing Reinforcement			
		Width of Footing	Longitudinal Bars Top	Longitudinal Bars Bottom	Transverse Bars Top With STD 90° Hook, Typ.
7'-0"	#5 at 16" o.c. Vert and #5 at 24" o.c. Horiz	5'-0"	6-#5	3-#5	#5 at 12" O.C.
5'-0"	#5 at 24" o.c. Vert and #5 at 24" o.c. Horiz	4'-0"	5-#5	3-#5	#5 at 18" O.C.
3'-0"	#5 at 32" o.c. Vert and #5 at 24" o.c. Horiz	2'-0"	3-#5	3-#5	#5 at 18" O.C.

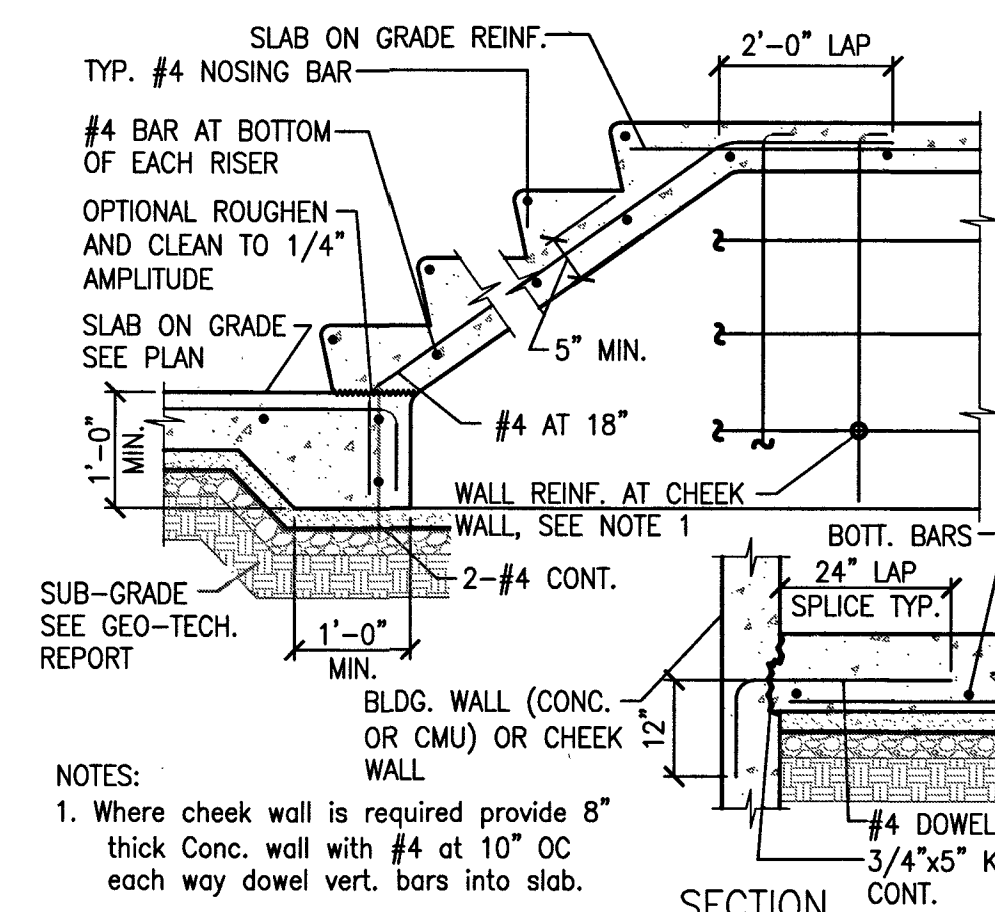


WALL NOTES

- NOTES:
- See detail 6/C7.01 for wall control joint.
 - Structural fill, see geotechnical report for requirements.
 - Apply EOCBASE II or approved equivalent for base protection and protect with Delta MS drain fabric or approved equivalent. Extend weep holes through Delta MS drain fabric into free draining backfill. Seal all crack control/expansion joints with a backer rod and flexible joint sealant on front and back of wall.
 - Provide dowels to match size and spacing of vertical wall reinf. for lap length in CMU see detail 8/C7.01.

4 RETAINING WALL ONSITE "L" FOOTING NOT TO SCALE

NOTE: APPROVAL OF L-18-00346 DOES NOT CONSTITUTE APPROVAL OF STRUCTURAL DESIGN

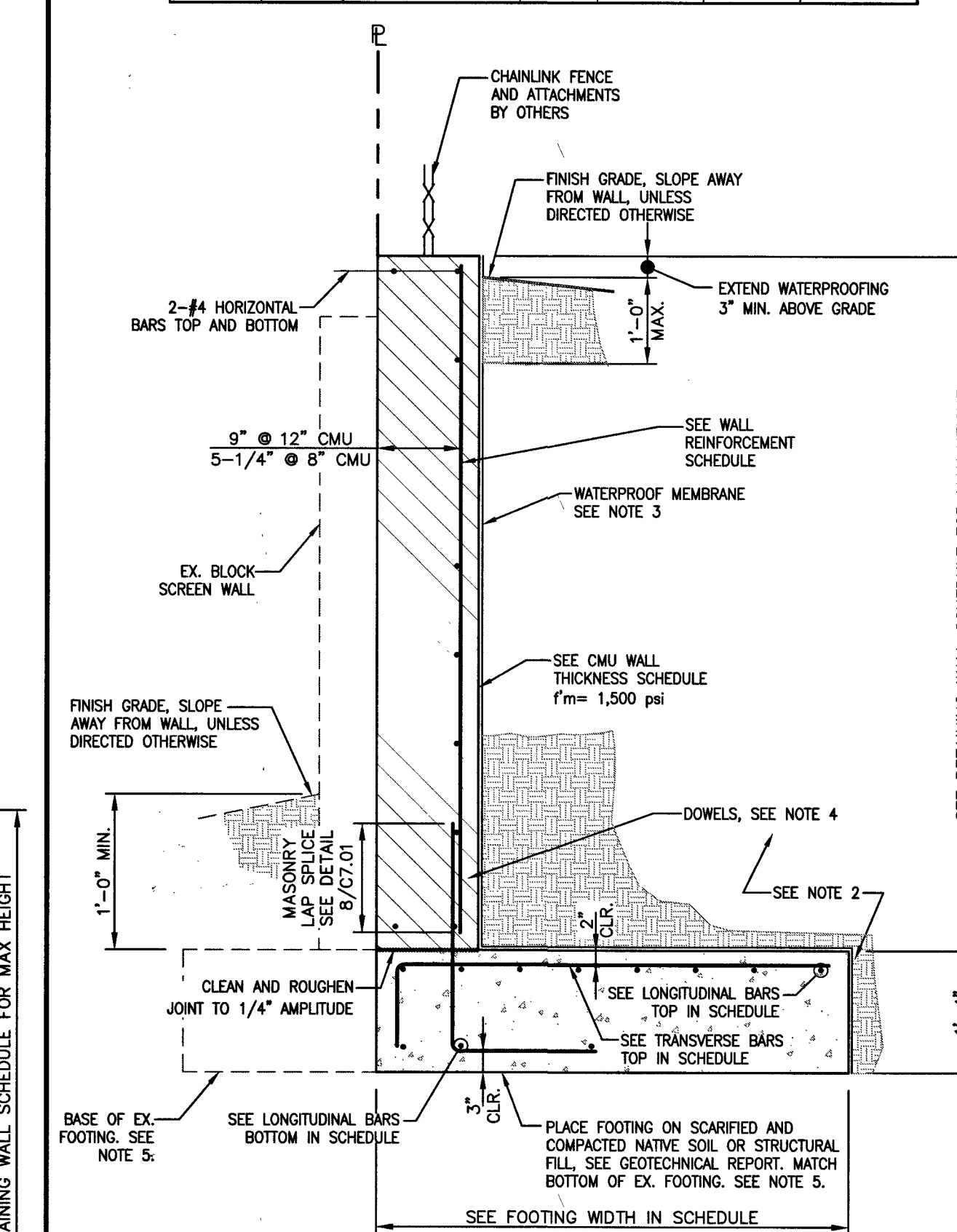


WALL NOTES

- NOTES:
- Where cheek wall is required provide 8" thick Conc. wall with #4 at 10" OC each way down vert. bars into slab.

3 CONCRETE STAIR ON GRADE NOT TO SCALE

Retaining Wall Thickness	Retaining Wall Max Height	Wall Reinforcement	Width of Footing	Footing Reinforcement		
				Longitudinal Bars Top	Longitudinal Bars Bottom	Transverse Bars Top With STD 90° Hook, Typ.
12"	6'-6"	#6 at 16" o.c. Vert and #5 at 24" o.c. Horiz	7'-3"	8-#5	3-#5	#5 at 15" O.C.
8"	4'-6"	#5 at 16" o.c. Vert and #5 at 24" o.c. Horiz	5'-0"	6-#5	3-#5	#5 at 18" O.C.
8"	3'-0"	#6 at 16" o.c. Vert and #5 at 24" o.c. Horiz	2'-9"	3-#5	3-#5	#5 at 18" O.C.

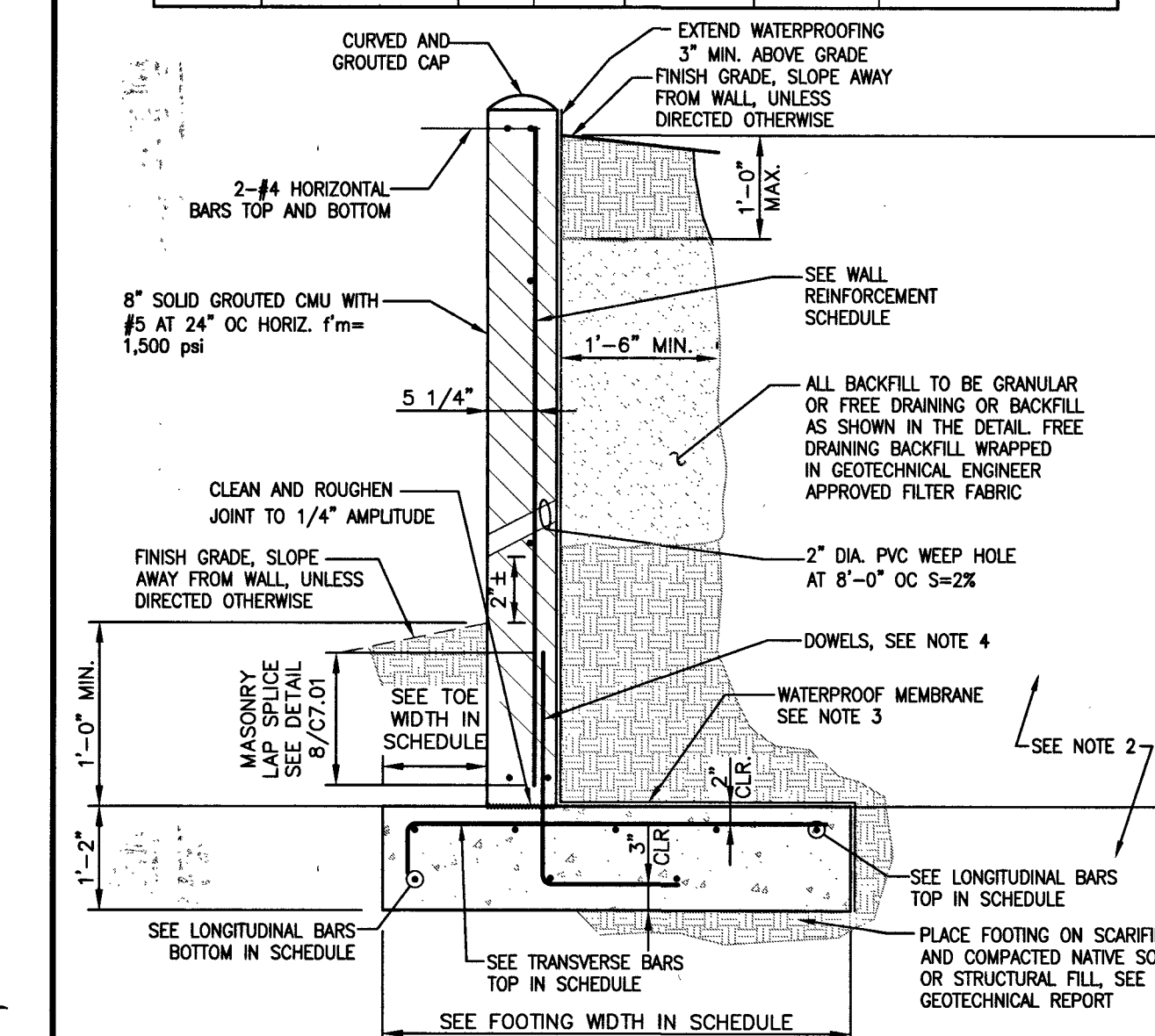


WALL NOTES

- NOTES:
- See detail 6/C7.01 for wall control joint.
 - Structural fill, see geotechnical report for requirements.
 - Apply EOCBASE II or approved equivalent for base protection and protect with Delta MS drain fabric or approved equivalent. Extend weep holes through Delta MS drain fabric into free draining backfill. Seal all crack control/expansion joints with a backer rod and flexible joint sealant on front and back of wall.
 - Provide dowels to match size and spacing of vertical wall reinf. for lap length in CMU see detail 8/C7.01.
 - Contractor to field verify base of existing screen wall footing. Contractor to contact civil engineer if depth causes retaining height to exceed max.

2 RETAINING WALL ON PROPERTY LINE NOT TO SCALE

Retaining Wall Max Height	Wall Reinforcement	Toe Width	Width of Footing	Footing Reinforcement		
				Longitudinal Bars Top	Longitudinal Bars Bottom	Transverse Bars Top With STD 90° Hook, Typ.
7'-0"	#5 at 16" o.c. Vert and #5 at 24" o.c. Horiz	12"	5'-0"	6-#5	3-#5	#5 at 12" O.C.
5'-0"	#5 at 24" o.c. Vert and #5 at 24" o.c. Horiz	12"	4'-0"	5-#5	3-#5	#5 at 18" O.C.
3'-0"	#5 at 32" o.c. Vert and #5 at 24" o.c. Horiz	8"	2'-0"	3-#5	3-#5	#5 at 18" O.C.



WALL NOTES

- NOTES:
- See detail 6/C7.01 for wall control joint.
 - Structural fill, see geotechnical report for requirements.
 - Apply EOCBASE II or approved equivalent for base protection and protect with Delta MS drain fabric or approved equivalent. Extend weep holes through Delta MS drain fabric into free draining backfill. Seal all crack control/expansion joints with a backer rod and flexible joint sealant on front and back of wall.
 - Provide dowels to match size and spacing of vertical wall reinf. for lap length in CMU see detail 8/C7.01.

1 RETAINING WALL ONSITE NOT TO SCALE

REVISIONS:

REV.	DESCRIPTION	DATE

GUY M. MORRIS
 CIVIL
 No. 14578
 EXP. 12-31-19
 11-29-18
 DATE
 DRAWN BY: NMG
 SUBMITTAL: CLV
 PROJECT NO.: 171208

3883 Howard Hughes Pkwy
 Suite 650
 Las Vegas, NV 89169
 Tel: 702.893.2800
 Fax: 702.893.2805

Gensler

Lochsa
 engineering
 6545 South Jones Blvd.
 Suite 100
 Las Vegas, NV 89118
 Phone: (702) 365-8912
 Fax: (702) 365-8917
 www.lochsa.com

CONSTRUCTION MGMT: DATE:

PROJECT MANAGER:

COORDINATOR:

BUILDING DEPARTMENT:

CODE COMPLIANCE:

ASBESTOS WORK IS:

REQUIRED ☐ NOT REQUIRED ☐

JOB# 0001621

CLARK COUNTY SCHOOL DISTRICT

CONSTRUCTION MANAGEMENT DEPARTMENT 1180 MILITARY TRIBUTE PL. HENDERSON, NV 89074 PHONE: 702-799-8710

PROJECT: E.W. GRIFFITH ES REPLACEMENT

DRAWING TITLE: DETAIL SHEETS STRUCTURAL WALLS

FACILITY: 412

SHEET NO: 118-02469 C7.02 715-212

SHEET 17 OF 17