

# PRELIMINARY CONSTRUCTION PLANS FOR

## ALBUQUERQUE 10 MW DATA CENTER DAYTONA RD NW, ALBUQUERQUE, NEW MEXICO MARCH 2024

### ENGINEER



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### LANDSCAPE ARCHITECT



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PROJECT NUMBER - PR-2020-004747  
SITE PLAN DFT - SI-2024-00451



PROJECT LOCATION  
CITY: ALBUQUERQUE  
COUNTY: BERNALILLO COUNTY



THIS PLANSET CONTAINS 32 SHEETS

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CLIENT:



ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO:

0

1

2

3



PROJECT NO.: 193806697

DWN BY: HKK CHKD BY: JRA APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE:

COVER SHEET

SHEET NO.:

C-001

### WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.





### GOVERNING SPECIFICATIONS

- CITY OF ALBUQUERQUE (CITY) STANDARD SPECIFICATIONS AND REQUIREMENTS.
- NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) 'STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION' LATEST EDITION AND SUPPLEMENTS.
- CITY/UTILITY PROVIDER SPECIFICATIONS, LOCAL PLUMBING CODE
- APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES

### PROJECT AGENCIES/AUTHORITIES

- MUNICIPALITY: CITY OF ALBUQUERQUE (CITY)
- ROW AUTHORITY: CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND NMDOT
- UTILITY AUTHORITY: TO BE DETERMINED
- OTHER AUTHORITIES: TO BE DETERMINED
- NOTE: NOT ALL APPLICABLE AUTHORITIES MAY BE LISTED.

### GENERAL NOTES

- UNTIL REVISION BLOCK STATES "ISSUED FOR CONSTRUCTION", THE PLAN SET IS NOT CERTIFIED FOR CONSTRUCTION AND CONTRACTOR IS BUILDING AT THEIR OWN RISK.
- EXISTING CONDITIONS SHOWN ARE FROM A TOPOGRAPHIC SURVEY COMPLETED BY STANTEC CONSULTING SERVICES INC., DATED JANUARY 2024. EXISTING FEATURES MAY NOT BE EXACT TO THEIR LOCATION. CONTRACTOR RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE SITE AND MUST IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF DISCREPANCIES OR VARIATIONS FROM THE DRAWINGS.
- SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CHASCO 38-2 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". EXACT LOCATION/DEPTH OF SUBSURFACE UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, SEWER, WATER, PIPELINES, ELECTRICAL, AND CABLE TV ARE UNKNOWN AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
- CONTRACTOR RESPONSIBLE FOR CONTACTING NM811 (811 OR 1-800-321-2537) A MINIMUM OF 2 WORKING DAYS (NOT INCLUDING THE DAY OF CALL) IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) BEFORE STARTING WORK FOR LOCATIONS OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL ANTICIPATE PRIVATE UTILITY CONFLICTS THROUGHOUT THE PROJECT SUB CUT AND TRENCH AREAS AND MUST COORDINATE THE RELOCATION OR PROTECTION OF EXISTING UTILITIES, OR INSTALLATION OF NEW UTILITIES WITH UTILITY OWNERS THAT MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE STARTING WORK. COSTS FOR SUCH WORK, INCLUDING EXTRA TIME AND EFFORT FOR PROVISIONS NECESSARY TO WORK AROUND OR UNDER UTILITIES, IS THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. FEES OR CHARGES WHICH ARE TO BE PAID TO THE UTILITY COMPANY, INCLUDING WORK THAT MUST BE PERFORMED BY THE UTILITY COMPANY, ARE TO BE INCLUDED IN THE CONTRACTOR'S BID PRICE
- QUANTITIES ARE APPROXIMATE, AND MAY VARY TO ALLOW COMPLETION OF WORK.
- WORK AND MATERIALS MUST COMPLY WITH CITY, COUNTY, STATE, AND FEDERAL (INCLUDING OSHA) REGULATIONS AND CODES.
- CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS TO ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE AND MAINTAIN MAIL, GARBAGE, AND RECYCLING SERVICES TO PROPERTIES THROUGHOUT CONSTRUCTION. COORDINATE WITH LOCAL POSTMASTER, GARBAGE AND RECYCLING SERVICES.
- CONTRACTOR SHALL COORDINATE AND MAINTAIN STORMWATER DRAINAGE CONVEYANCE THROUGHOUT CONSTRUCTION (BOTH PIPED AND OVERLAND FLOW).
- CONTRACTOR SHALL COORDINATE AND MAINTAIN WATER AND SANITARY FLOW TO AND FROM PROPERTIES. PROVIDE BYPASS AND TEMPORARY SYSTEMS, AS NECESSARY.
- CONTRACTOR SHALL COORDINATE AND MAINTAIN UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICE MUST NOT BE INTERRUPTED WITHOUT APPROVAL FROM OWNER, CITY, AND ADJACENT PROPERTIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY SERVICES FOR SMALL DRY UTILITY INSTALLATION.
- CONSTRUCTION LIMITS ARE TO PROPERTY LINE AND RIGHT-OF-WAY UNLESS SHOWN OR NOTED OTHERWISE. CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON PLANS WITHIN THE CONSTRUCTION LIMITS.
- CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PAVEMENT, SITE FEATURES, UTILITIES, TREES, ETC., UNLESS NOTED OR SHOWN OTHERWISE.
- CONTRACTOR SHALL PHOTO OR VIDEO DOCUMENT EXISTING CONDITIONS OF TREES AND PLANTINGS, ADJOINING CONSTRUCTION, SURFACES, AND SITE IMPROVEMENTS, ETC. TO REMAIN THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY CONSTRUCTION OPERATIONS. SUBMIT TO ENGINEER AND OWNER BEFORE CONSTRUCTION BEGINS. USE ADEQUATELY DETAILED PHOTOGRAPHS OR VIDEO RECORDINGS. INCLUDE PLANS AND NOTATIONS TO INDICATE SPECIFIC EXISTING DAMAGE CONDITIONS OF ITEMS DESIGNATED TO REMAIN. ANY DAMAGE TO THE EXISTING PAVEMENT, CURBING, STRIPING, OR OTHER SITE FEATURE TO REMAIN MUST BE REPLACED BY THE CONTRACTOR, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER IN WRITING OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER AND ENGINEER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- CONTRACTOR SHALL HAVE ONE COPY OF EACH REQUIRED CONSTRUCTION PERMIT AND ONE COPY OF THE MOST CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT, SPECIAL CONDITIONS AND PROVISIONS, ETC.) AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IMPLEMENTATION AND ENFORCEMENT OF SAFE WORK PRACTICES, INCLUDING BUT NOT LIMITED TO PERSONNEL MONITORING, USE OF TRENCHING, SHEETING, AND SHORING, SCAFFOLDING, MATERIALS HANDLING AND DRILLING; OPERATION OF EQUIPMENT; AND SAFETY OF PUBLIC DURING PROGRESS OF WORK.
- CONTRACTOR SHALL PLAN FOR AND ENSURE PERSONNEL COMPLY WITH PROVISIONS OF OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND GENERAL CONSTRUCTION STANDARDS (29 CFR 1926) AS APPROPRIATE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH WORK. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS FOR SAFETY OF EMPLOYEES ON PROJECT SITE AND OTHER PERSONS AND ORGANIZATIONS WHO MAY BE AFFECTED BY THE PROJECT. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY IN CONNECTION WITH WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL WORK IS COMPLETED, AND ENGINEER HAS ISSUED NOTICE TO CONTRACTOR THAT WORK IS COMPLETE.
- HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO OIL, GASOLINE, PAINT AND OTHER HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, BY THE CONTRACTOR, INCLUDING SECONDARY CONTAINMENTS, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH LOCAL/STATE/FEDERAL REGULATIONS. CONTRACTOR SHALL REMOVE SPILL OF FUELS, OILS, OR OTHER CHEMICALS IMMEDIATELY UPON DETECTION.
- CONTRACTOR SHALL DOCUMENT AND MAINTAIN AS-BUILT INFORMATION AS CONSTRUCTION PROGRESSES AND IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER AS REQUIRED BY JURISDICTIONAL AGENCIES FOR CERTIFICATION. ALL AS-BUILT DATA MUST BE COLLECTED BY A LICENSED PROFESSIONAL LAND SURVEYOR REGISTERED IN THE PROJECT'S STATE WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.

### REMOVAL / DEMOLITION NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR SHALL OBTAIN PERMITS REQUIRED FOR DEMOLITION, REMOVAL AND DISPOSAL.
- CONTRACTOR SHALL REVIEW FEATURES NOT SPECIFICALLY IDENTIFIED ON PLAN FOR SALVAGE OR REMOVAL THAT CONFLICT WITH CONSTRUCTION WITH THE ENGINEER.
- MATERIALS REMOVED/DEMOLISHED BY CONTRACTOR BECOME PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL LOAD AND HAUL MATERIAL OFF-SITE AND PROPERLY DISPOSE OF MATERIALS IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTRACTOR MUST LEAVE THE SITE IN A CONDITION TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- CONTRACTOR SHALL SAWCUT FULL DEPTH AT PAVEMENT REMOVAL LIMITS AND AS NECESSARY TO CREATE A SMOOTH FIT/TRANSITION ALONG MATCHING PAVEMENT AREAS.
- CONTRACTOR SHALL COORDINATE UTILITY REMOVAL WORK WITH APPROPRIATE UTILITY OWNER.
- CONTRACTOR SHALL SALVAGE AND REINSTALL STREET AND TRAFFIC SIGNS IN CONFLICT WITH CONSTRUCTION ACTIVITIES AS NOTED OR AS DIRECTED BY ENGINEER. IF SIGNS ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR REQUIRED TO PROVIDE NEW SIGNS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL SALVAGE AND REINSTALL FENCE IN CONFLICT WITH CONSTRUCTION ACTIVITIES AS NOTED OR AS DIRECTED BY ENGINEER. IF FENCE IS DAMAGED DURING CONSTRUCTION, CONTRACTOR REQUIRED TO PROVIDE NEW FENCE, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
- IN THE EVENT THAT UNKNOWN CONTAINERS OR TANKS ARE ENCOUNTERED, THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY. ALL CONTAINERS OR TANKS MUST BE DISPOSED OF PROPERLY AT A REGULATED/PERMITTED FACILITY.
- UNLESS OTHERWISE NOTED, CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION WITHIN ALL AREAS OF PROPOSED IMPROVEMENTS. REMOVAL LIMITS ARE IDENTIFIED ON THE DRAWINGS IN ANTICIPATED LOCATIONS. CONTRACTOR RESPONSIBLE FOR REMOVALS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS AND CONFORM TO DESIGN REQUIREMENTS. ALL FACILITIES TO BE REMOVED MUST BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE FILL MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER

### TRAFFIC CONTROL NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING, ON OR OFFSITE, AS NECESSARY TO COMPLETE THE WORK. IF OFFSITE STAGING AREA IS REQUIRED, CONTRACTOR IS RESPONSIBLE TO FIND, OBTAIN, AND PAY FOR NECESSARY STAGING AREA AT NO ADDITIONAL COST TO THE OWNER. SUBMIT A STAGING PLAN TO THE ENGINEER FOR REVIEW BEFORE STARTING WORK.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL. TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE'S MUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. SUBMIT TRAFFIC CONTROL PLAN TO CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND NMDOT AND ENGINEER FOR REVIEW BEFORE CONSTRUCTION RELATED ACTIVITIES. PLANS MUST COMPLY WITH APPLICABLE PERMIT REQUIREMENTS. TRAFFIC CONTROL ALSO INCLUDES NECESSARY SIGNAGE AND MARKINGS FOR SIDEWALKS, TRAILS, BOARDWALKS, ETC. CLOSURE. THIS MUST INCLUDE ADVANCED WARNING SIGNS AND NECESSARY FENCING AND SIGNAGE TO PREVENT PEDESTRIANS FROM ACCESSING THE PROPOSED AREA.
- CONTRACTOR MUST SCHEDULE WORK IMPACTING DAYTONA ROAD NW WITH THE OWNER, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND NMDOT AND ENGINEER. CLOSURES OR DETOURS MUST BE ACCEPTED BY OWNER, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND NMDOT PRIOR TO STARTING WORK.
- CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON DAYTONA ROAD NW AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ROAD AUTHORITY. CONTRACTOR MUST SCHEDULE WORK IMPACTING DAYTONA ROAD NW WITH THE OWNER, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND NMDOT AND ENGINEER. CLOSURES OR DETOURS MUST BE ACCEPTED BY OWNER, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, AND NMDOT PRIOR TO STARTING WORK.

### SITE NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- REFER TO THE ARCHITECTURAL, STRUCTURAL, LANDSCAPE, AND MEP PLANS FOR EXACT LOCATIONS OF AND DIMENSIONS OF BUILDINGS, VESTIBULES, STOOPS, OVERHANGS, COLUMNS, RAMPS, SIDEWALKS, TRASH ENCLOSURES, TRAFFIC GATES, MONUMENT SIGNS, LANDSCAPING, PLANTINGS, TREES, SITE LIGHTING, EXTERIOR ELECTRICAL, BACKFLOW PREVENTORS AND BUILDING UTILITY ENTRANCE LOCATIONS.
- BUILDING LINES SHOWN ARE APPROXIMATE OUTSIDE LINES OF BUILDINGS AT GRADE, MAY NOT ACCOUNT FOR EXTRUSIONS (I.E. BALCONIES, OVERHANGS, LIGHTING, ETC.) ABOVE GRADE, AND ARE BASED ON INFORMATION PROVIDED TO STANTEC BY THE ARCHITECT. CONTRACTOR SHALL VERIFY FINAL BUILDING PLANS WITH ARCHITECT.
- CONTRACTOR AND SURVEYOR SHALL FIELD VERIFY THE BUILDING FOOTPRINT/OUTLINE AND OUTER MOST EXTRUSIONS PRIOR TO CONSTRUCTION TO REVIEW POTENTIAL CONFLICTS WITH ADJACENT WORK, EXISTING SITE FEATURES, PROPERTY LINES, SETBACKS, ETC.
- EQUIPMENT PAD ELEVATIONS SHOWN ON GRADING PLAN. EQUIPMENT PAD STRUCTURAL/CONCRETE DESIGN BY ARCHITECT/STRUCTURAL/MEP. COORDINATE WITH PROJECT PARTNERS
- RETAINING WALL ELEVATIONS SHOWN ON GRADING PLAN. RETAINING WALL DESIGN BY ARCHITECT/STRUCTURAL. COORDINATE WITH PROJECT PARTNERS
- FENCING LOCATION SHOWN ON SITE PLAN FOR REFERENCE ONLY. FENCING DESIGN BY ARCHITECT/STRUCTURAL/LANDSCAPE ARCHITECT. COORDINATE WITH PROJECT PARTNERS.
- CONCRETE GUTTER PAN TO TIP IN THE SAME DIRECTION AS THE ADJACENT PAVEMENT.
- DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

### PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR SHALL MAINTAIN STREET AND TRAFFIC SIGNS AT ALL TIMES DURING CONSTRUCTION.
- SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE STATE'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE APPLICABLE ROAD AUTHORITY STANDARDS.
- THE PAVEMENT SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE APPLICABLE ROAD AUTHORITY AND THE ENGINEER JUST PRIOR TO APPLICATION OF PAVEMENT MARKINGS. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIALS MANUFACTURER AND ACCEPTABLE TO THE APPLICABLE ROAD AUTHORITY AND THE ENGINEER.
- THE PAVEMENT MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING.
- PAVEMENT MARKING EDGE LINES ARE TO BE BROKEN ONLY AT INTERSECTION WITH PUBLIC ROADS AND PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAVEMENT MARKING RELATED ACTIVITIES, SUCH AS, BUT NOT LIMITED TO, COLLECTING DATA FROM IN PLACE LANE LINES, MARKING PERMANENT MARKING ALIGNMENTS, NECESSARY 'SPOTTING' AT APPROPRIATE POINTS AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. EXACT LOCATION OF PAVEMENT MARKINGS TO BE FIELD LOCATED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE WITH ROAD AUTHORITY AS NECESSARY FOR PAVEMENT MARKINGS IN THE ROW.
- WHERE CONNECTING TO INPLACE ROADWAYS/PAVEMENT SECTIONS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE SURFACING OR TO THE BOTTOM OF THE NEW SURFACING DESIGN, WHICHEVER IS DEEPER, THEN AT A 1V:20H TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF 2 PEOPLE WITH CURRENT ACI CONCRETE FLATWORK TECHNICIAN OR FLATWORK FINISHER CERTIFICATION, AND AT LEAST ONE OF THEM MUST BE ONSITE FOR ALL CONCRETE POURS.
- PROTECT CONCRETE PAVING FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR. MAINTAIN CONCRETE FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIALS. SWEEP PAVING NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS. REPAIR OR REPLACE STAINED/DISCOLORED CONCRETE TO THE SATISFACTION OF THE OWNER AT NO COST TO THE OWNER.

### PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES CONT'D

- CONSTRUCTION AND MATERIALS WITHIN PUBLIC RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH APPLICABLE ROAD AUTHORITY'S SPECIFICATIONS AND STANDARDS. DOT SPECIFICATIONS AND STANDARDS APPLY IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS. PAVING, PAVEMENT MARKINGS, AND SIGNAGE WITHIN THE SITE SHALL MEET THE FOLLOWING REQUIREMENTS:
  - HMA/ASPHALTIC CONCRETE: CONFORM TO NMDOT SPEC 423
    - #N/A
    - #N/A
    - WEARING COURSES - 10% MAX RAP. NO RAS ALLOWED. NON-WEARING COURSES - 20% MAX RAP
    - TACK COAT: NMDOT SPEC 407. EMULSIFIED ASPHALT, CATIONIC, CSS-1 OR CSS-1H
  - MAXIMUM ALLOWABLE HMA LIFT THICKNESS SHALL NOT EXCEED 3 INCHES. MINIMUM LIFT THICKNESS SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 1.5 INCHES FOR MIXES WITH 0.5 INCH MAX AGGREGATE SIZE; 2.5 INCHES FOR MIXES WITH 0.75 INCH MAX AGGREGATE SIZE ; 0.75 INCHES FOR MIXES WITH 0.375 INCH MAX AGGREGATE SIZE.
  - PLACE TACK COAT BETWEEN NEW SURFACE AND EACH NEW LIFT AT A RATE OF 0.05 GALLONS PER SQUARE YARD.
  - CONCRETE SIDEWALK/DRIVEWAYS/SLABS MATERIALS: NMDOT SPECS 450, 451, 509, 510, 608, 609
    - MANUAL PLACEMENT MIX DESIGN: NMDOT SPECS 450, 451, 509, AND 510, CLASS A CONCRETE (SIDEWALK) AND CLASS HPD (PAVING)
    - FLY ASH: CLASS F
  - CONCRETE CURB AND GUTTER MATERIALS: NMDOT SPEC 609
    - MANUAL PLACEMENT: NMDOT SPEC 609, CLASS A
    - SLIP FORM PLACEMENT: NMDOT SPEC 609, CLASS F
  - CONCRETE METAL REINFORCEMENT:
    - REINFORCING BARS: NMDOT SPEC 540, BAR REINFORCEMENT COATING: EPOXY COATED IN ACCORDANCE WITH ASTM A775.
    - TIE WIRE: PLASTIC OR NYLON COATED TIE WIRES.
    - BAR SUPPORTS: CONFORM TO "BAR SUPPORT SPECIFICATIONS AND STANDARD NOMENCLATURE", CRSI MANUAL OF STANDARD PRACTICE.
    - WELDED WIRE FABRIC/REINFORCEMENT: NMDOT SPEC 540, WELDED WIRE FABRIC COATING: UNCOATED.
  - CONCRETE ISOLATION/EXPANSION JOINT MATERIAL: PREFORMED EXPANSION JOINT FILLER IN ACCORDANCE WITH AASHTO M33 OR AASHTO M153
  - CONCRETE CURING MATERIALS: NMDOT SPEC 511, METHOD 1, WATER CURING
  - SILANE/SILOXANE CONCRETE SEALER: SILOXA-TEK 8500, OKON S40, ARMOR SX5000, OR APPROVED EQUAL. SHALL BE APPLIED PER MANUFACTURER INSTRUCTIONS. SHALL BE APPLIED ON A CLEAN, DRY, AND ABSORBENT SURFACE THAT HAS BEEN CURED FOR AT LEAST 28 DAYS PRIOR TO APPLICATION. SHALL BE APPLIED TO A SURFACE THAT IS ABOVE 40 DEGREES FAHRENHEIT AND WILL NOT FREEZE FOR AT LEAST 24 HOURS. APPLICATION RATE SHALL BE MONITORED AND BE GREATER THAN MANUFACTURERS RECOMMENDATIONS.
  - CONCRETE PLACING, FINISHING, CURING, AND PROTECTION: CONFORM TO NMDOT SPECS 450, 451, 509, 510, 608, 609, AND APPLICABLE ACI STANDARDS
    - FOR HOT WEATHER PLACEMENT, COMPLY WITH ACI 305 HOT WEATHER CONCRETING (LATEST EDITION).
    - FOR COLD WEATHER PLACEMENT, COMPLY WITH ACI 306 COLD WEATHER CONCRETING (LATEST EDITION). DO NOT PLACE CONCRETE IN AIR TEMPERATURE LESS THAN 40 DEGREES F WITHOUT APPROVAL OF THE ENGINEER.
    - PRIOR TO POURING ANY EXTERIOR CONCRETE FLATWORK/SLAB, CONTRACTOR MUST VERIFY THE PREDICTED COMBINATION OF AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE AND WIND VELOCITY WILL NOT EXCEED AN EVAPORATION RATE OF 0.20 POUNDS PER SQUARE FOOT OF SURFACE AREA PER HOUR IN ACCORDANCE WITH ACI 305 (LATEST EDITION). THE WEATHER MUST ALSO BE LESS THAN 30% CHANCE OF PRECIPITATION FOR THE ENTIRE PLACEMENT WINDOW, AND 2 HOURS FOLLOWING EXPECTED COMPLETION. IF EITHER OF THESE CONDITIONS ARE NOT MET, THE POUR MUST BE POSTPONED UNTIL IT CAN MEET THESE REQUIREMENTS.
    - INSTALLATION FORM: CONTRACTOR OR INDEPENDENT TESTING AGENCY IS REQUIRED TO FILL OUT AND SUBMIT THE ENGINEER'S EXTERIOR CONCRETE INSTALLATION FORM AT THE END OF THE DAY OF EACH POUR. CONTACT THE ENGINEER TO OBTAIN THE FORM.
    - APPLY CURING COMPOUND AT A MINIMUM RATE OF 1 GALLON PER 150 SQ FT SURFACE CURING AREA OR MANUFACTURER RECOMMENDED APPLICATION RATE, WHICHEVER IS GREATER.
    - CONSTRUCT TEMPORARY WIND BREAKS AS NECESSARY TO REDUCE WIND VELOCITY/DRYING/EXPOSURE.
    - CONSTRUCT TEMPORARY SUNSHADES AS NECESSARY TO REDUCE CONCRETE TEMPERATURES/EXPOSURE.
    - CONTRACTOR SHALL PROTECT ALL CONCRETE SLABS THROUGHOUT CONSTRUCTION FROM HEAVY EQUIPMENT, VIBRATIONS, ADJACENT WORK, ETC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONCRETE DAMAGED DURING CONSTRUCTION AND SHALL REPLACE AT NO ADDITIONAL COST TO THE OWNER.
  - AGGREGATE BASE: SEE DETAILS
  - AGGREGATE SURFACING: CITY OF ALBUQUERQUE SPEC 308, PROCESSED NATURAL MATERIAL
  - PAVEMENT MARKINGS: CITY OF ALBUQUERQUE SPEC 440
    - PAVEMENT STRIPES: CITY OF ALBUQUERQUE SPEC 440, TRAFFIC PAINT
    - PAVEMENT MESSAGES (ARROWS): CITY OF ALBUQUERQUE SPEC 440, TRAFFIC PAINT
    - CROSSWALK: CITY OF ALBUQUERQUE SPEC 440, TRAFFIC PAINT
  - INSTALLERS OF THERMOPLASTIC MUST CARRY A CARD CERTIFYING THAT THEY HAVE ATTENDED A TRAINING SESSION THAT ADDRESSES SURFACE PREPARATIONS AND ALL APPLICATION REQUIREMENTS AND TECHNIQUES NECESSARY FOR SUCCESSFUL APPLICATIONS.
  - PRIOR TO APPLYING PAVEMENT MARKINGS, ALLOW NEW PAVEMENT TO CURE A MINIMUM OF 14 DAYS OR FOLLOW MANUFACTURER'S SPECIFICATION FOR PAVEMENT CURE TIME, WHICHEVER IS GREATER
  - SIGNAGE: CONFORM TO NMDOT SPEC 752. ALL SIGNS/POSTS SHALL MEET CRASHWORTHY REQUIREMENTS OF MASH-16. SIGNS SHALL INCLUDE NUMBER AND SIZE OF POSTS IN ACCORDANCE WITH NMDOT WIND LOADING REQUIREMENTS. MOUNT SIGNS IN ACCORDANCE WITH SQUARE TUBE SIGN MOUNTING NMDOT STANDARD PLANS AND REQUIREMENTS. SEE NMDOT STANDARDS FOR SIGN BLANK DETAILS FOR FLAT SHEET SIGN PANELS. SEE NMDOT STANDARDS AND REQUIREMENTS FOR DETAILS OF TRAFFIC SIGN INSTALLATION. SEE NMDOT STANDARDS AND MUTCD FOR SIGN MOUNTING HEIGHT AND OFFSET REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE CONCRETE JOINTS AS FOLLOWS:
  - CONTROL JOINTS - MAINTAIN AN ASPECT RATIO (LENGTH TO WIDTH) BETWEEN CONTROL JOINTS AS CLOSE TO 1:1 AS FEASIBLE. DO NOT EXCEED ASPECT RATIO GREATER THAN 1.5:1. MATCH EXISTING PATTERN WHERE APPLICABLE. VERIFY WITH OWNER. MAXIMUM CONTROL JOINT SPACING SHALL BE 24 TIMES THE SLAB THICKNESS UP TO A MAXIMUM OF 12 FEET (I.E. 4-INCH-THICK SLAB = 96 INCH (8 FOOT) MAXIMUM CONTROL JOINT SPACING IN ANY DIRECTION, 8-INCH-THICK SLAB IS 12 FEET)
    - JOINT INTERSECTION ANGLES LESS THAN 60 DEGREES WILL NOT BE ALLOWED
    - PANEL WIDTHS LESS THAN 6 INCHES AT ANY POINT WILL NOT BE ALLOWED
    - JOINTING MUST ACCOMMODATE IN-PAVEMENT STRUCTURES THROUGH JOINTING AND BOXOUTS
    - CONTRACTOR MUST SUBMIT A JOINTING PLAN FOR ENGINEER ACCEPTANCE.
  - EXPANSION/ISOLATION JOINTS - PROVIDE AT THE FOLLOWING:
    - JOINT INTERSECTION ANGLES LESS THAN 60 DEGREES WILL NOT BE ALLOWED
    - LOCATIONS WHERE CHANGES IN WIDTH OCCUR
    - LOCATIONS WHERE ADJOINING EXISTING CONCRETE
    - LOCATIONS THAT ABUT THE BUILDING AND OTHER SITE FEATURES INCLUDING RAMPS, STAIRS, LANDINGS, CONCRETE APRONS, ARCHITECTURAL AND LANDSCAPE FEATURES, ETC.
    - LOCATIONS IN CHANGES IN DEPTH (INCLUDING PAVEMENT ADJACENT TO CURB).
  - WHEREVER POSSIBLE MATCH JOINTS OF ADJACENT CONCRETE WORK.
- FIELD QUALITY CONTROL:
  - AGGREGATE BASE TESTING REQUIREMENTS AND FREQUENCY: TEST SUBGRADE AND AGGREGATE BASE IN ACCORDANCE WITH NMDOT SPEC RECOMMENDATIONS.
  - CONCRETE TESTING REQUIREMENTS AND FREQUENCY: TEST CONCRETE AIR CONTENT (ASTM C231), CONCRETE SLUMP (ASTM C143), AIR AND CONCRETE TEMPERATURE, AND 7- AND 28-DAY COMPRESSIVE STRENGTH (ASTM C31, C39, AND C172).
  - HMA/ASPHALTIC CONCRETE TESTING REQUIREMENTS AND FREQUENCY: TEST HMA PAVEMENT IN ACCORDANCE WITH NMDOT SPECS.

### PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES CONT'D

- TOLERANCES:
  - HMA/ASPHALTIC CONCRETE PAVEMENT: CONFORM TO NMDOT SPECIFICATIONS AND THE FOLLOWING: DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUM SLOPES WILL BE CONSIDERED UNACCEPTABLE. HORIZONTAL LINE DEVIATIONS GREATER THAN ±1 INCH WILL BE CONSIDERED UNACCEPTABLE. ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/4 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE. REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
  - CONCRETE PAVEMENT: CONFORM TO NMDOT SPECIFICATIONS AND THE FOLLOWING: VERTICAL DEVIATIONS IN SURFACE GREATER THAN ±3/16 INCH WILL BE CONSIDERED UNACCEPTABLE. DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUM SLOPES WILL BE CONSIDERED UNACCEPTABLE. HORIZONTAL LINE DEVIATIONS IN LOCATION GREATER THAN ±1/2 INCH WILL BE CONSIDERED UNACCEPTABLE. ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/8 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE. RANDOM AND UNCONTROLLED CRACKING WILL BE CONSIDERED UNACCEPTABLE. REPLACE CONCRETE PAVEMENT AS DIRECTED BY ENGINEER AND OWNER. PERFORM PAVEMENT REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER. REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
  - CONCRETE CURB AND GUTTER: CONFORM TO NMDOT SPEC 609. DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUMS WILL BE CONSIDERED UNACCEPTABLE.
  - PAVEMENT MARKINGS: CONFORM TO CITY OF ALBUQUERQUE SPEC 440, EXCEPT AS MODIFIED HEREIN: LINE WIDTH DEVIATIONS LESS THAN OR EQUAL TO ±1/4 INCH FROM THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS LESS THAN OR EQUAL TO ±1/4 FOOT FROM THE SPECIFIED LENGTHS WILL BE ALLOWED FOR STRIPING. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 2 INCHES. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.
- CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES AGGREGATE BASE PAST THE BACK OF CURB.

### EROSION CONTROL NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR SHALL CONFORM TO AND CONDUCT INSPECTIONS IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP REQUIREMENTS.
- BEFORE SITE DISTURBANCE AND AS REQUIRED AS CONSTRUCTION PROGRESSES, CONTRACTOR SHALL INSTALL, MAINTAIN, REPAIR, AND REPLACE EROSION PREVENTION MEASURES AND SEDIMENT CONTROL DEVICES (INLET PROTECTION, CONSTRUCTION ENTRANCE, SILT FENCE, EROSION CONTROL BLANKET, ETC.) IN ACCORDANCE WITH THE NPDES PERMIT, THE SWPPP, AND APPLICABLE PERMITTING AGENCIES.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION. COORDINATE WITH ENGINEER.
- CONTRACTOR SHALL STABILIZE ALL EXPOSED SOIL AREAS WITHIN THE CONSTRUCTION LIMITS WITHIN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE THAT HAS TEMPORARILY (WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS) OR PERMANENTLY CEASED. STABILIZATION MUST BE INITIATED PROMPTLY. REFER TO LANDSCAPE PLANS FOR FINAL GROUND COVER MATERIALS.
- CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT HAS TRACKED ONTO PAVED SURFACES BOTH ON AND OFFSITE WITHIN 24 HOURS AND AS DIRECTED BY APPLICABLE PERMITTING AGENCIES, ROAD AUTHORITY, OWNER, AND ENGINEER. SWEEP STREET IN ACCORDANCE WITH APPLICABLE PERMITTING AGENCIES, ROAD AUTHORITY, AND NPDES PERMIT REQUIREMENTS.
- CONTRACTOR SHALL COMPLETE CONCRETE WASH-OUT OFF-SITE OR PROVIDE SELF-CONTAINED CONCRETE READY MIX TRUCKS.
- CONTRACTOR SHALL MINIMIZE DUST FROM CONSTRUCTION OPERATIONS BY PROVIDING WATER OR OTHER APPROVED METHOD ON A DAILY BASIS.
- CONTRACTOR SHALL PHASE GRADING WORK TO MINIMIZE THE DURATION THAT DISTURBED SOIL IS EXPOSED. CONTRACTOR SHALL PROVIDE/INSTALL DIVERSION DITCHES, SEDIMENT BASINS, AND OTHER EROSION PROTECTION/SEDIMENT CONTROL MEASURES AS NECESSARY DURING INTERIM PROJECT CONDITIONS (NOT SHOWN ON PLANS) TO MANAGE/DIVERT STORM WATER AWAY FROM SITE FEATURES AND CONTROL EROSION/SEDIMENT. CONTRACTOR SHALL ADJUST MEASURES AS NECESSARY THROUGHOUT PROJECT PHASING.
- CONTRACTOR SHALL LOCATE SOIL STOCKPILES NO LESS THAN 50 FEET FROM ROADWAYS, STORMWATER INLETS, PONDS, WETLANDS, DRAINAGE CHANNELS, AND OTHER SURFACE WATERS. IF REMAINING FOR MORE THAN 14 DAYS STABILIZE THE STOCKPILES BY MULCHING, VEGETATED COVER, TARPS, OR OTHER MEANS IN ACCORDANCE WITH THE NPDES PERMIT. PLACE PERIMETER SEDIMENT CONTROLS AROUND STOCKPILES TO CONTROL EROSION. COVER TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES IF LEFT FROM MORE THAN 24 HOURS.
- CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES AFTER SITE HAS BEEN STABILIZED AND VEGETATION IS ESTABLISHED AS DIRECTED BY ENGINEER. EROSION CONTROL MEASURES USED FOR CONSTRUCTION MUST NOT BE REMOVED UNTIL AUTHORIZED BY OWNER OR ENGINEER.
- CONTRACTOR SHALL SUBMIT THE NOTICE OF TERMINATION AT THE COMPLETION OF THE PROJECT IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP REQUIREMENTS.
- SOIL PREPARATION: PREPARE SOIL IN ACCORDANCE WITH NMDOT SPECIFICATIONS.
- EROSION CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:
  - SILT FENCE: NMDOT SPEC 603 SILT FENCE
  - COMPOSTED MULCH SOCK: NMDOT SPEC 603 COMPOSTED MULCH SOCK
  - SOIL RETENTION BLANKETS: NMDOT SPEC 603, SOIL RETENTION BLANKET
  - PERMANENT SEED: SEE LANDSCAPE PLAN.
  - RIPRAP: NMDOT SPEC 602, RIPRAP. GEOTEXTILE FOR RIPRAP: NMDOT SPEC 604, GEOTEXTILE FILTER FABRIC CLASS 1

### WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



733 MARQUETTE AVE  
SUITE 1000  
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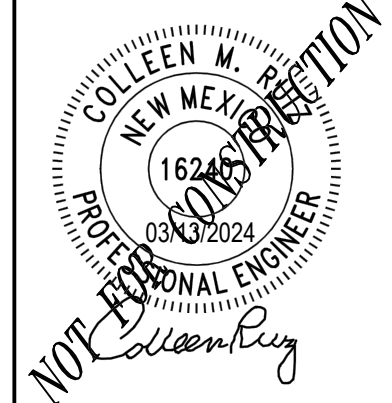
CLIENT:



ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	
03/08/2024	DRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	DRB RESUBMITTAL	3	

CERTIFICATION:



PROJECT NO.: 193806697

DWN BY: HKK CHKD BY: JRA APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE:

GENERAL NOTES

SHEET NO.:

C-002



### GRADING NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE, UNLESS NOTED OTHERWISE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO QUANTIFY SOIL IMPORT OR EXPORT FOR THE SITE AND PERFORM THEIR OWN QUANTITY TAKEOFFS FROM THE DRAWINGS FOR BIDDING PURPOSES. EXCESS MATERIAL, UNLESS NOTED OTHERWISE, IS THE PROPERTY OF THE CONTRACTOR AND IS TO BE MOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE LAWS.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND ENSURE NO PONDING IN PAVED AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF GRADING DISCREPANCIES ARE FOUND IN EXISTING OR PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT. OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING BEFORE PLACEMENT OF PAVEMENT TO ENSURE DRAINAGE IS ADEQUATE TO INTENDED AREA.
- CONTRACTOR SHALL BACKFILL SUBGRADE AND TRENCH EXCAVATIONS PROMPTLY AFTER EXCAVATION TO HELP OFFSET STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES, TO AVOID UNDERMINING OF EXISTING PAVEMENT, AND FOR PUBLIC SAFETY AND ACCESS TO DRIVEWAYS.
- CONTRACTOR SHALL PROVIDE TOPSOIL, SEED/SOD, MULCH, AND FERTILIZER IN ACCORDANCE WITH THE LANDSCAPE PLAN.
- REFERENCE LANDSCAPE PLAN FOR MINIMUM TOPSOIL THICKNESS
- EXISTING TOPSOIL ON SITE VARIES IN DEPTH. CONTRACTOR SHALL REMOVE SURFACE VEGETATION AND TOPSOIL AND OTHER LOOSE, SOFT OR OTHERWISE UNSUITABLE MATERIAL FROM THE IMPERVIOUS AREAS AND OTHER AREAS AS DIRECTED BY THE ENGINEER BEFORE PLACEMENT OF SUITABLE FILL MATERIAL.
- CONTRACTOR SHALL EXCAVATE AND DISPOSE OF UNSUITABLE OR CONTAMINATED SOILS DISCOVERED ONSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL CONSTRUCT/GRADE SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS IN ACCORDANCE WITH CURRENT ADA STATE AND NATIONAL STANDARDS. NOTIFY ENGINEER IN WRITING IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
- EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY OF ANY FIELD DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR MAKING NECESSARY ADJUSTMENTS IN THE FIELD FOR CONSTRUCTABILITY, REGULATORY COMPLIANCE (ADA), POSITIVE DRAINAGE, AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF A DISCREPANCY THAT IS NOT COMMUNICATED TO THE ENGINEER IN WRITING AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATE, COMPACT EMBANKMENT/SUITABLE FILL AND BACKFILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND IN ACCORDANCE WITH CITY/UTILITY PROVIDER REQUIREMENTS.
- CONTRACTOR SHALL MEET MOISTURE CONTENT/CONTROL REQUIREMENTS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND CITY/UTILITY PROVIDER REQUIREMENTS AND SITE TESTING REQUIREMENTS.
- ONSITE EMBANKMENT MATERIAL FREE OF ORGANIC SOIL AND DEBRIS MAY BE CONSIDERED FOR REUSE AS SUITABLE FILL MATERIAL IN PERVIOUS AREAS BUT MUST BE ACCEPTED BY THE ENGINEER.
- IMPORTED SUITABLE FILL MATERIAL NEEDED MAY CONSIST OF SAND (SW, SP), SILTY SAND (SM), CLAYEY SAND (SC), SANDY LEAN CLAY OR LEAN CLAY (CL), ACCORDING TO THE USCS CLASSIFICATION WITH A PLASTIC INDEX OF THESE MATERIALS NOT EXCEEDING 15 AND MUST BE ACCEPTED BY THE ENGINEER BEFORE BRINGING ON THE SITE.
- ANY EXISTING STRUCTURES (I.E. MANHOLES, VALVES, ETC.) WITHIN THE LIMITS OF DISTURBANCE SHALL HAVE RIMS ADJUSTED TO MATCH PROPOSED GRADES, UNLESS NOTED OTHERWISE. ADJUSTMENTS SHALL BE IN ACCORDANCE WITH CITY/UTILITY PROVIDER REQUIREMENTS
- CONTRACTOR SHALL PROVIDE DEWATERING MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- FIELD QUALITY CONTROL:
  - SOILS TESTING WILL BE COMPLETED BY A GEOTECHNICAL ENGINEER/INDEPENDENT TESTING AGENCY HIRED BY THE CONTRACTOR AND APPROVED BY THE OWNER. CONTRACTOR SHALL COORDINATE REQUIRED SOILS TESTS AND INSPECTIONS WITH THE ENGINEER.
  - TESTING SHALL FOLLOW THE FREQUENCY OUTLINED IN NMDOT SPECIFICATIONS/FIELD MANUALS. WHERE NO FREQUENCY IS PROVIDED, CONSULT THE ENGINEER FOR MINIMUM REQUIREMENTS.
- TOLERANCES:
  - GRADING ELEVATIONS - CONFORM TO NMDOT SPECIFICATIONS AND THE FOLLOWING: FINISHED GRADING OF SUBGRADE PRIOR TO PLACEMENT OF AGGREGATE BASE COURSES SHALL NOT VARY BY MORE THAN 0.05 FEET ABOVE OR BELOW THE DESIGN, OR ENGINEER ADJUSTED GRADE.

### UTILITY NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS AND REQUIREMENTS OF ALBUQUERQUE BERNALLLO COUNTY WATER UTILITY AUTHORITY, NEW MEXICO PLUMBING CODE, NEW MEXICO DOT, NEW MEXICO ENVIRONMENT DEPARTMENT, AND LOCAL REQUIREMENTS FOR MATERIALS, INSTALLATION, AND TESTING OF WATERMAIN UTILITIES.
- CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS AND REQUIREMENTS OF CITY/UTILITY PROVIDER SPECIFICATIONS, LOCAL PLUMBING CODE FOR MATERIALS, INSTALLATION, AND TESTING OF WATER AND SANITARY UTILITIES.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3 FEET COVER ON ALL WATERLINES, UNLESS OTHERWISE NOTED. PROVIDE HYDRANT EXTENSIONS AND GATE VALVE NUT EXTENSIONS IF WATERLINE IS DEEPER THAN MINIMUM COVER. PROVIDE INSULATION OVER WATERMAIN AND SERVICES WITH PROPOSED ELEVATIONS LESS THAN MINIMUM BURY DEPTH PER PROJECT DETAILS AND UTILITY PROVIDER REQUIREMENTS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4 FEET COVER ON ALL SANITARY SEWER AND SERVICES, UNLESS OTHERWISE NOTED. PROVIDE INSULATION OVER SANITARY SEWER AND SERVICES WITH PROPOSED ELEVATIONS LESS THAN MINIMUM BURY DEPTH PER PROJECT DETAILS AND UTILITY PROVIDER REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE 10 FEET MINIMUM HORIZONTAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND SANITARY OR STORM LINES AND STRUCTURES
- CONTRACTOR SHALL PROVIDE 18 INCH MINIMUM VERTICAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE) BETWEEN WATER LINES AND OTHER UTILITY LINE CROSSINGS. PROVIDE INSULATION WHERE WATER, SANITARY OR STORM UTILITIES CROSS. OFFSET WATERMAIN AND SERVICES AS NECESSARY.
- PIPE LENGTH INDICATED BETWEEN STRUCTURES IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS NOTED OTHERWISE.
- PIPE SIZES SHOWN ON THE PLANS ARE INTERNAL PIPE DIAMETER.
- CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SEWER AND WATER MAINS, LATERALS, SERVICE PIPE AND CONNECTIONS TO RISERS, CURB BOXES, MANHOLES, VALVES, HYDRANTS PER CITY/UTILITY PROVIDER REQUIREMENTS AND PROJECT DETAILS AND SPECIFICATIONS.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE WATER LINE MUST INCLUDE ONE FULL LENGTH OF PIPE SO BOTH JOINTS ARE AS FAR FROM THE SEWER/UTILITY AS POSSIBLE AND SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE MINIMUM CLEARANCE.
- WATERMANS AND SERVICES SHALL NOT HAVE ANY INTERMITTENT HIGH POINTS, EXCEPT AT HYDRANTS OR AS NOTED AT SPECIFIC LOCATIONS ON THE PLANS.
- CONTRACTOR SHALL VERIFY PIPE SIZE, MATERIAL, AND ELEVATION FOR ALL CONNECTIONS. PROVIDE APPROPRIATE PIPES AND FITTINGS REQUIRED TO MAKE CONNECTIONS TO EXISTING INFRASTRUCTURE AS VERIFIED IN THE FIELD IN ACCORDANCE WITH CITY/UTILITY PROVIDER REQUIREMENTS.
- WATER AND SANITARY SEWER SERVICES ARE SHOWN TERMINATING AT THE BUILDING FOOTPRINT BUT ARE DESIGNED TO WITHIN 0 OF THE BUILDING FOOTPRINT. VERIFY WITH MEP/PLUMBING PLANS/DESIGNER FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BACKFLOW DEVICES (DDCV AND PRZ ASSEMBLIES), METERS, AND BUILDING UTILITY ENTRANCE LOCATIONS. SERVICE DESIGNS AND INVERTS WITHIN 0 OF THE BUILDING ARE FOR ILLUSTRATIVE AND REFERENCE PURPOSES ONLY. SEE MEP/PLUMBING PLANS FOR CONTINUATION. VERIFY LOCATIONS AND INVERT ELEVATIONS WITH MEP/PLUMBING PLANS. PROVIDE A RISER PIPE AS NEEDED TO MATCH PLUMBING PIPING.
- WATER AND SANITARY SEWER SERVICE SIZES AND ALIGNMENT ARE BASED ON MEP DESIGN. VERIFY SIZE AND ALIGNMENT W/ MEP PLANS. IN THE EVENT THE FINAL SIZE OR ALIGNMENT IS DIFFERENT THAN SHOWN, CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING IMMEDIATELY.
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH AGENCY HAVING JURISDICTION REQUIREMENTS.
- CONTRACTOR SHALL PLACE AND COMPACT SUITABLE FILL MATERIAL BEFORE INSTALLATION OF PROPOSED UTILITIES.
- ANY EXISTING STRUCTURES (I.E. MANHOLES, VALVES, ETC.) WITHIN THE LIMITS OF DISTURBANCE SHALL HAVE RIMS ADJUSTED TO MATCH PROPOSED GRADES, UNLESS NOTED OTHERWISE. ADJUSTMENTS SHALL BE IN ACCORDANCE WITH CITY/AGENCY HAVING JURISDICTION REQUIREMENTS.

### UTILITY NOTES CONT'D

- SANITARY SEWER MAIN, SERVICE PIPES, FITTINGS, AND STRUCTURES SHALL MEET THE FOLLOWING REQUIREMENTS:
  - SANITARY SERVICE PIPE: PVC SCHEDULE 40 PER ASTM D1785
  - SANITARY MAIN PIPE (TO 16 FT DEPTH): PVC SDR 26 PER ASTM D3034
  - SANITARY MAIN PIPE (16 FT TO 25 FT DEPTH): PVC SDR 26 PER ASTM D3034
  - SANITARY PIPE FITTINGS: ASTM D2665 FOR SDR AND SCH 40 PVC PIPE, INJECTION MOLDED (GRAVITY LINES ONLY)
  - SANITARY PIPE GASKETS: ASTM F477 FOR SDR AND C900 PIPE
  - SANITARY PIPE JOINTS: ASTM D3212 FOR SDR PIPE
  - SANITARY SYSTEM TRACER WIRE: CITY REQUIREMENTS
  - SANITARY PRECAST STRUCTURE: CONFORM TO THE DETAILS/STANDARD PLATES AS SHOWN ON THE DRAWINGS, INCLUDING INTEGRAL BASE SECTIONS AND RUBBER GASKETED TONGUE AND GROOVE JOINTS, UNLESS SHOWN OTHERWISE. ALL PIPE OPENINGS SHALL HAVE INTEGRAL CAST WATERTIGHT SEAL.
  - SANITARY PRECAST STRUCTURE DESIGN: THE STRUCTURE BASE SLAB, PERIMETER WALLS, AND TOP SLAB SHALL BE DESIGNED FOR SHEAR STRENGTH, FLEXURAL STRENGTH, AND OTHER APPLICABLE STRENGTHS DUE TO HYDROSTATIC LOADING. THE DESIGN OF THE STRUCTURE SHALL CONFORM TO A MINIMUM FACTOR OF SAFETY OF 1.3 FOR BUOYANCY AND FLOTATION. THE HYDROSTATIC LOADING (WATER TABLE ELEVATIONS) SHALL BE ASSUMED FROM THE TOP OF THE STRUCTURE. THE STRUCTURE SHALL BE DESIGNED AND DETAILED PREPARED BY A PROFESSIONAL ENGINEER, EXPERIENCED IN PRECAST CONCRETE MANHOLE DESIGN, WHO IS LICENSED IN THE STATE OF NEW MEXICO.
  - SANITARY PIPE/STRUCTURE CONNECTION: CONTRACTOR SHALL PROVIDE AND INSTALL A FLEXIBLE COMPRESSION JOINT TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES IN ACCORDANCE WITH THE UTILITY PROVIDER REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.
  - STRUCTURE ADJUSTMENT RINGS: CONCRETE WITH MINIMUM 3,000 PSI COMPRESSIVE STRENGTH, SINGLE HOOP 8-GAUGE STEEL WIRE REINFORCEMENT, AND 2 INCH THICKNESS EACH RING
  - ADHESION MATERIAL: BETWEEN TOP SLAB AND BARREL SECTION - RAM-NEK OR APPROVED EQUAL. FOR CONCRETE RINGS, USE AIR ENTRAINED UNDERGROUND UTILITY MORTAR IN ACCORDANCE WITH ASTM C270, ASTM C387, AND MANUFACTURER REQUIREMENTS.
  - EXTERNAL/INTERNAL SEALS: IN ACCORDANCE WITH CITY REQUIREMENTS
- WATERMAIN, SERVICE PIPES AND FITTINGS TO MEET THE FOLLOWING REQUIREMENTS:
  - WATER SERVICE PIPING - 4 INCHES AND LARGER: PVC C900 DR 18 PER AWWA C 900, PER CURRENT WATER AUTHORITY APPROVED PRODUCTS LIST.
  - WATER SERVICE PIPE FITTINGS - 4 INCHES AND LARGER: AWWA C153, 250 PSI WORKING PRESSURE WITH INTERNAL AND EXTERNAL COATING PER AWWA C116
  - WATERMAIN PIPING: PVC C900 DR 18 PER AWWA C 900, PER CURRENT WATER AUTHORITY APPROVED PRODUCTS LIST.
  - WATERMAIN PIPE FITTINGS: AWWA C153 DUCTILE IRON COMPACT FITTINGS, 250 PSI WORKING PRESSURE WITH INTERNAL AND EXTERNAL COATING PER AWWA C116
  - WATERMAIN PIPE JOINTS: AWWA C111 WITH MECHANICAL JOINTS AND THRUST BLOCKING PER PROJECT DETAILS.
  - WATERMAIN STUBS: MECHANICALLY RESTRAINED JOINTS WITH THRUST BLOCKING PER PROJECT DETAILS.
  - WATER SYSTEM TRACER WIRE: CITY REQUIREMENTS
  - ENCASEMENT: POLYETHYLENE FILM PER AWWA C105. ENCASE DUCTILE IRON PIPE, FITTINGS, VALVES, AND OTHER APPURTENANCES
  - JOINT RESTRAINT: PROVIDE AT ALL BENDS, TEES, AND DEAD-ENDS/STUBS IN ACCORDANCE WITH THE UTILITY PROVIDER REQUIREMENTS AND EBAA IRON RESTRAINT LENGTH CALCULATOR.
  - THRUST BLOCKING: PROVIDE BLOCKING IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
  - HYDRANTS: PER UTILITY PROVIDER REQUIREMENTS
  - VALVES: PER UTILITY PROVIDER REQUIREMENTS
- IF MANUFACTURER DETAILS SPECIFY DESIGN COMPONENTS TO BE DETERMINED BY SITE DESIGN ENGINEER, CONTRACTOR IS RESPONSIBLE FOR CONTACTING SITE DESIGN ENGINEER TO VERIFY SYSTEM REQUIREMENTS PRIOR TO CONSTRUCTION IF NOT NOTED IN THE DRAWINGS.
- CONTRACTOR SHALL COMPACT EMBANKMENT/BEDDING/BACKFILL MATERIAL IN ACCORDANCE WITH NMDOT SPEC 660, THE GEOTECHNICAL REPORT, AND SITE TESTING REQUIREMENTS.
- CONTRACTOR SHALL MEET MOISTURE CONTENT/CONTROL REQUIREMENTS IN ACCORDANCE WITH NMDOT SPECS 203, 206, 207, 209, 303, THE GEOTECHNICAL REPORT, AND SITE TESTING REQUIREMENTS.
- FIELD QUALITY CONTROL, TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
  - ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION AND UTILITY PROVIDER COMPANIES.
  - SANITARY LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
    - SERVICE PIPE AND STRUCTURES TESTING: MEET LOCAL PLUMBING CODE REQUIREMENTS/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
    - LEAKAGE TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
    - DEFLECTION TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
    - TELEVISIONS: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
    - CONDUCTIVITY/TRACING TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
  - WATER LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
    - SERVICE PIPE AND STRUCTURES TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS, NEW MEXICO ENVIRONMENT DEPARTMENT, NEW MEXICO PLUMBING CODE, AND LOCAL WATER AUTHORITY
    - HYDROSTATIC PRESSURE TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
    - DISINFECTION TESTING: MEET CITY OR STATE REQUIREMENTS (AWWA C651)
    - CONDUCTIVITY/TRACING TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
- SERVICE TRENCH COMPACTION TESTING: IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- SANITARY MAIN TRENCH COMPACTION TESTING: IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- F. SANITARY STRUCTURE COMPACTION TESTING: IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- WATERMAIN TRENCH COMPACTION TESTING: IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- WATER STRUCTURE/VALVE COMPACTION TESTING: IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- TOLERANCES:
  - SANITARY PIPE HORIZONTAL: WITHIN 0.50 FEET OF ALIGNMENT
  - SANITARY PIPE VERTICAL: ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
  - SANITARY PIPE JOINT DEFLECTION: NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
  - SANITARY STRUCTURE RIM ELEVATIONS: ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN
  - WATER PIPE HORIZONTAL: WITHIN 0.50 FEET OF ALIGNMENT
  - WATER PIPE VERTICAL: 0 FEET PLUS AND 1 FEET MINUS ELEVATION SHOWN, WHILE MEETING THE MINIMUM SEPARATION REQUIREMENTS AT CROSSINGS.
  - WATER PIPE JOINT DEFLECTION: NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
  - HYDRANT/VALVE/CASTING ELEVATION: WITHIN 0.05 FEET OF FINAL ELEVATION. VALVE/TRACER WIRE BOXES, CURB STOPS, AND CASTINGS SHALL NOT EXTEND ABOVE FINAL PAVED SURFACE ELEVATION

### STORM SEWER NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS OF THE CITY/UTILITY PROVIDER, NMDOT, NEW MEXICO ENVIRONMENT DEPARTMENT, AND LOCAL PLUMBING CODE FOR MATERIALS, INSTALLATION, AND TESTING OF STORM UTILITIES.
- CONTRACTOR SHALL PROVIDE 10 FEET SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND SANITARY OR STORM LINES AND STRUCTURE.
- CONTRACTOR SHALL PROVIDE 18 INCH MINIMUM VERTICAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND OTHER UTILITY LINES. PROVIDE INSULATION WHERE WATER, SANITARY, OR STORM UTILITIES CROSS. OFFSET WATERMAIN AND SERVICES AS NECESSARY.
- CONTRACTOR SHALL VERIFY PIPE SIZE, MATERIAL, AND ELEVATION FOR CONNECTIONS. PROVIDE APPROPRIATE PIPES AND FITTINGS REQUIRED TO MAKE CONNECTIONS TO EXISTING INFRASTRUCTURE AS VERIFIED IN THE FIELD.
- CONTRACTOR SHALL PLACE AND COMPACT SUITABLE FILL MATERIAL BEFORE INSTALLATION OF PROPOSED UTILITIES.

### STORM SEWER NOTES CONT'D

- DRAINTILE/SUBSOIL DRAIN AROUND BUILDING PERIMETER NOT SHOWN ON CIVIL DRAWINGS. CONTRACTOR SHALL VERIFY IF DRAINTILE REQUIRED WITH ARCHITECT/STRUCTURAL/MEP AND COORDINATE CONNECTION TO STORM SYSTEM WITH ENGINEER.
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH AGENCY HAVING JURISDICTION REQUIREMENTS.
- PIPE LENGTH INDICATED BETWEEN STRUCTURES IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS NOTED OTHERWISE. PIPE LENGTH INDICATED BETWEEN STRUCTURE AND FLARED END SECTION IS FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
- PIPE SIZES SHOWN ON THE PLANS ARE INTERNAL PIPE DIAMETER.
- IF MANUFACTURER DETAILS SPECIFY DESIGN COMPONENTS TO BE DETERMINED BY SITE DESIGN ENGINEER, CONTRACTOR IS RESPONSIBLE FOR CONTACTING SITE DESIGN ENGINEER TO VERIFY SYSTEM REQUIREMENTS PRIOR TO CONSTRUCTION IF NOT NOTED IN THE DRAWINGS.
- STORM SEWER MAINS, SERVICE PIPES, FITTINGS, AND STRUCTURES TO MEET THE FOLLOWING REQUIREMENTS:
  - PVC PIPE: PVC C900 DR 18 PER AWWA C 900, ASTM D1784, ASTM F477. INTEGRAL BELL WITH ELASTOMERIC GASKET JOINTS PROVIDING A WATER-TIGHT SEAL. INJECTION MOLDED FITTINGS.
  - CORRUGATED PIPE FLARED END SECTION: ADVANCED DRAINAGE SYSTEMS METAL FLARED END SECTION FOR HDPE PIPE OR EQUAL
  - ROOF DRAIN PIPE AND FITTINGS: PVC C900 DR 18 PER AWWA C 900. INJECTION MOLDED FITTINGS.
  - PIPE JOINTS: JOINTS MUST BE CERTIFIED BY THE MANUFACTURER TO BE ABLE TO PASS THE AIR TEST OR INTERNAL HYDROSTATIC PRESSURE REQUIRED BY THE AGENCY HAVING JURISDICTION.
  - PIPE CONNECTION TO EXISTING PIPE: FOR DISSIMILAR PIPE CONNECTIONS USE FLEXIBLE TRANSITION COUPLINGS PER ASTM C1173 AND D5926
  - PIPE CONNECTION TO EXISTING STORM STRUCTURE: CONTRACTOR SHALL PROVIDE AND INSTALL A FLEXIBLE COMPRESSION JOINT TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS. RESILIENT RUBBER JOINTS MEETING ASTM C923 MAY BE USED IF APPROVED BY AGENCY HAVING JURISDICTION. SEE PROJECT DETAILS.
  - AREA DRAIN INLETS: NYLOPLAST HEAVY DUTY DRAIN BASIN W/ DUCTILE IRON LOCKABLE COVER OR APPROVED EQUAL. SEE PLAN FOR GRATE TYPE AND SIZING.
  - STORM PRECAST STRUCTURES GENERAL: ASTM C478 AND DRAWING DETAILS.
  - STORM PRECAST STRUCTURE JOINTS: RUBBER O-RING GASKET MEETING ASTM C643
  - STORM PRECAST STRUCTURE STEPS: PER DETAILS
  - STORM PRECAST STRUCTURE DESIGN: DETAILED AND PREPARED BY A PROFESSIONAL ENGINEER EXPERIENCED IN PRECAST CONCRETE STRUCTURE DESIGN WHO IS LICENSED IN THE STATE OF NEW MEXICO. DESIGN SHALL CONFORM TO A MINIMUM SAFETY FACTOR OF 1.3 FOR BUOYANCY AND FLOTATION WITH THE HYDROSTATIC LOADING (WATER TABLE ELEVATIONS) ASSUMED FROM THE TOP OF THE STRUCTURE. THE DESIGN OF THE BASE SLAB, WALLS, AND TOP SLAB SHALL BE DESIGNED FOR SHEAR STRENGTH, FLEXURAL STRENGTH, AND OTHER APPLICABLE STRENGTHS DUE TO HYDROSTATIC LOADING. THE DESIGN SHALL BE IN ACCORDANCE WITH THE MOST CURRENT ACI 318, AASHTO, AND NMDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS NOTED
  - STORM PRECAST STRUCTURE MORTAR MATERIALS: ASTM C270 AND ASTM C387 WITH AIR CONTENT OF AT LEAST 8 PERCENT.
  - STORM PRECAST STRUCTURE ADJUSTMENT RINGS: SIZE TO MATCH CONE OR OPENING IN TOP SLAB. CONCRETE WITH MINIMUM 3,000 PSI COMPRESSIVE STRENGTH, SINGLE HOOP 8-GAUGE WIRE REINFORCEMENT, AND 2 INCH THICKNESS EACH RING
  - STORM PRECAST STRUCTURE ADHESION MATERIAL: BETWEEN TOP SLAB AND BARREL SECTION - RAM-NEK OR APPROVED EQUAL. FOR CONCRETE RINGS, USE MORTAR MATERIALS.
  - STORM PRECAST STRUCTURE INTERNAL/EXTERNAL SEAL: IN ACCORDANCE WITH CITY REQUIREMENTS
  - STORM PIPE BEDDING: CONTRACTOR SHALL INSTALL AND PROVIDE BEDDING FOR PIPING/STORM/WATER SYSTEMS/VAULTS/CHAMBERS/ STRUCTURES IN ACCORDANCE WITH UTILITY PROVIDER, ASTM D 2321 AND ASTM F 1668 (FOR GRAVITY SEWER), ASTM D 2774 (FOR PRESSURE PIPE), ASTM C 1479 (FOR RC PIPE), AWWA C600 (FOR DIP PIPE), AWWA C605 (FOR PVC), ASTM A 798 (FOR CMP), AND PROJECT/MANUFACTURER DETAILS AND SPECIFICATIONS.
  - STORM SYSTEM TRACER WIRE: MEET AUTHORITY HAVING JURISDICTION REQUIREMENTS
  - CONTRACTOR SHALL COMPACT EMBANKMENT/BEDDING/BACKFILL MATERIAL IN ACCORDANCE WITH CITY/UTILITY PROVIDER REQUIREMENTS, IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, AND SITE TESTING REQUIREMENTS.
  - CONTRACTOR SHALL MEET MOISTURE CONTENT/CONTROL REQUIREMENTS IN ACCORDANCE WITH CITY/UTILITY PROVIDER REQUIREMENTS, THE GEOTECHNICAL REPORT, AND SITE TESTING REQUIREMENTS.
  - FIELD QUALITY CONTROL, TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
    - ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION AND UTILITY SERVICE COMPANIES.
    - SANITARY LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
      - SERVICE PIPE AND ROOF DRAIN LEADERS TESTING TO COMPLY WITH LOCAL PLUMBING CODE/CITY/AGENCY HAVING JURISDICTION.
      - ALL PORTIONS OF SYSTEM (PIPE AND STRUCTURES) THAT PASS WITHIN 10 FEET OF A WATER LINE, WITHIN 10 FEET OF A BUILDING, WITHIN 50 FEET OF WATER WELLS, OR THAT PASS THROUGH SOIL OR WATER IDENTIFIED AS BEING CONTAMINATED MUST BE TESTED IN ACCORDANCE WITH CITY/AGENCY HAVING JURISDICTION.
      - STORM PIPE DEFLECTION TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
      - STORM PIPE LEAKAGE TESTING: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
      - STORM PIPE LAMPING: VERIFY INSTALLATION IS TRUE TO LINE AND GRADE. VERIFY INSTALLED PIPE IS STRUCTURALLY SOUND. VERIFY THERE ARE NO BROKEN OR DEFLECTIVE PIPES. VERIFY THAT JOINTS ARE ALL PUSHED HOME. VERIFY STRUCTURES CONFORM TO SPECIFIED REQUIREMENTS. PROVIDE VERIFICATION OF THE ABOVE IN WRITING TO THE OWNER AND ENGINEER.
      - STORM PIPE INFILTRATION TESTING: IN ACCORDANCE WITH THE CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION
      - STORM PIPE CONTINUITY TESTING: IN ACCORDANCE WITH THE CITY/UTILITY PROVIDER/AUTHORITY HAVING JURISDICTION.
      - TELEVISIONS: MEET CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION REQUIREMENTS
      - STORM PIPE TRENCH COMPACTION TESTING: IN ACCORDANCE WITH THE CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION
      - STORM CULVERT TRENCH COMPACTION TESTING: IN ACCORDANCE WITH THE CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION
      - STORM STRUCTURE COMPACTION TESTING: IN ACCORDANCE WITH CITY/UTILITY PROVIDER/AGENCY HAVING JURISDICTION
      - BASIN INFILTRATION TESTING: IN ACCORDANCE WITH CITY/AGENCY HAVING JURISDICTION
- CONTRACTOR SHALL CLEAN STRUCTURES AND PIPING OF DEBRIS AND SEDIMENT DURING AND AT THE END OF CONSTRUCTION UNTIL ACCEPTED BY THE OWNER AND ENGINEER.
- REFER TO THE MEP PLANS FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BUILDING STORM UTILITY ENTRANCE LOCATIONS.

### STORM SEWER NOTES CONT'D

- TOLERANCES:
  - STORM PIPE HORIZONTAL TOLERANCE: WITHIN 0.50 FEET OF ALIGNMENT
  - STORM PIPE VERTICAL TOLERANCE: ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
  - STORM PIPE JOINT DEFLECTION TOLERANCE: NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
  - STORM STRUCTURE RIM ELEVATION TOLERANCE: ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN

### HORIZONTAL AND VERTICAL CONTROL NOTES

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- THE HORIZONTAL CONTROL FOR THIS PLAN IS NAD83 NEW MEXICO STATE PLANES, CENTRAL ZONE, US FOOT
- THE VERTICAL CONTROL FOR THE PLAN IS NAVD88
- COORDINATE ADJUSTMENT FACTOR = 1.0003231864 MULTIPLY COORDINATES BY COORDINATE ADJUSTMENT FACTOR TO GET TO STATE PLANE.

### TYPICAL OWNER / ENGINEER OBSERVATIONS

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- CONTRACTOR MUST NOTIFY OWNER, ENGINEER, AND CITY IN WRITING A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF THE FOLLOWING ACTIVITIES FOR ATTENDANCE AND OBSERVATION: PRE-CONSTRUCTION MEETING, UNDERGROUND PIPING AND UTILITIES INSTALLATION, UTILITY TESTING, STRUCTURES AND APPURTENANCES INSTALLATION, SUBGRADE PREPARATION, BASE INSTALLATION, CURB INSTALLATION, AND PAVEMENT INSTALLATION.

### TEST REPORTS REQUIRED

- SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- COPIES OF COMPACTION/MOISTURE, CONCRETE, AND OTHER TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE INDEPENDENT TESTING LABORATORY.
- ONSITE/INPLACE GEOTECHNICAL/CONCRETE TESTING MUST BE COMPLETED BY THE CONTRACTOR'S INDEPENDENT TESTING LABORATORY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED IN-PLACE TESTS AND INSPECTIONS WITH THE ENGINEER/INDEPENDENT TESTING LABORATORY.
- TEST REPORTS REQUIRED MAY INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO: DENSITY TESTS OF SOIL AND PAVEMENT COMPACTION, CONCRETE COMPRESSION, AIR, AND SLUMP TESTS, BACTERIOLOGICAL TESTS OF WATER SYSTEM, MANDREL TESTS OF SANITARY AND STORM SYSTEM, PRESSURE/LEAK TESTS OF WATER/SANITARY/STORM SYSTEM, AND OTHER TESTING REQUIRED BY AGENCY/MUNICIPALITY HAVING JURISDICTION.
- RE-WORK/RE-TESTING DUE TO FIELD TEST FAILURE ARE AT NO ADDITIONAL COST TO THE OWNER.



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CLIENT:



ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO.:

0

1

2

3

PROJECT NO.: 193806697

DWN BY: HKK CHKD BY: JRA APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

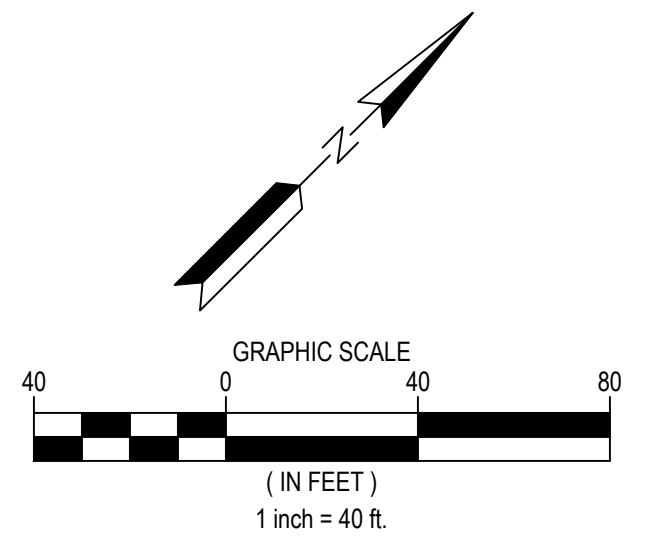
SHEET TITLE: GENERAL NOTES

SHEET NO.: C-003



know what's below  
Call before you dig.





**LEGEND**

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- SECTION LINE
- QUARTER LINE
- EXISTING FENCE LINE
- EXISTING RETAINING WALL LINE
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING EDGE OF GRAVEL
- EXISTING CURB AND GUTTER
- EXISTING DITCH CENTERLINE
- EXISTING CONCRETE SURFACE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING CULVERT

**NOTES**

1. SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES

**WARNING:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

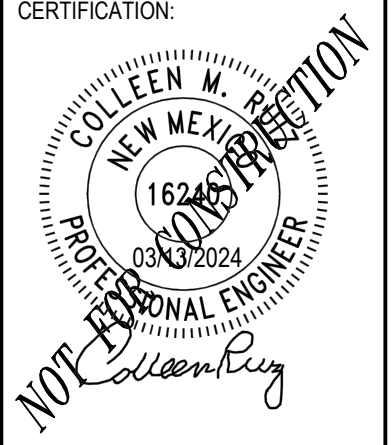


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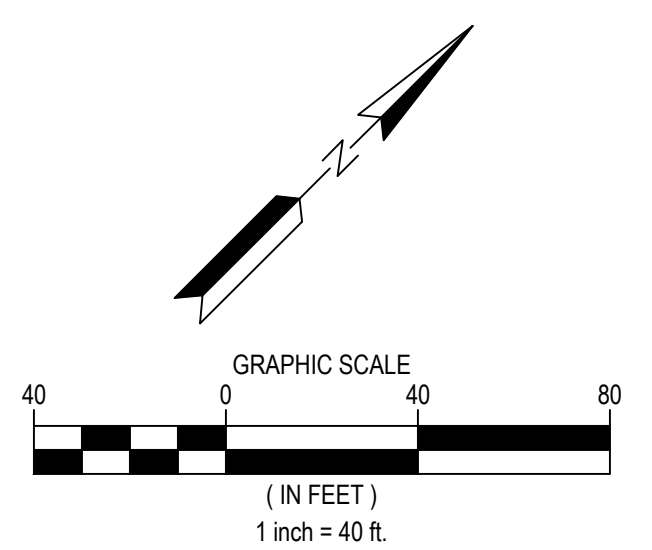
**ALBUQUERQUE 10 MW  
DATA CENTER**  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER DAYTONA RD NW ALBUQUERQUE, NEW MEXICO 87121
03/08/2024	CRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	CRB RESUBMITTAL	3	



PROJECT NO.:	193806697	
DWN BY:	CHKD BY:	APPD BY:
HKK	JRA	CMR
ISSUE DATE:	04/24/2024	
ISSUE NO.:	3	
SHEET TITLE:	EXISTING CONDITIONS	
SHEET NO.:	C-004	





### LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- SECTION LINE
- QUARTER LINE
- 901 EXISTING MINOR CONTOUR
- 900 EXISTING MAJOR CONTOUR
- REMOVE BITUMINOUS PAVEMENT
- REMOVE GRAVEL SURFACE
- REMOVE CURB AND GUTTER
- SAWCUT PAVEMENT
- CONSTRUCTION LIMITS
- ROCK CONSTRUCTION EXIT
- SILT FENCE
- CULVERT PROTECTION

### NOTES

1. SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.
2. CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
3. UNTRENCHED SILT FENCE OR ORANGE SNOW FENCE MAY BE USED FOR TREE PROTECTION.
4. CONSTRUCTION LIMITS AND SILT FENCE ARE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
5. CLEAR AND GRUB AS NEEDED WITHIN LIMITS OF DISTURBANCE.
6. EXISTING UTILITY SERVICE LINES MAY NOT BE SHOWN IN THEIR ENTIRETY ON PLANS. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITY SERVICE LINES WITHIN THE LIMITS OF DISTURBANCE AND REMOVE EXISTING INFRASTRUCTURE AS NECESSARY TO INSTALL PROPOSED IMPROVEMENTS.
7. CONTRACTOR SHALL EVALUATE LIMITS OF REMOVAL FOR PROPOSED UTILITY INSTALLATION. IN THE EVENT THAT CURB AND PAVEMENT ARE IMPACTED IN ADDITION TO THE SIDEWALK CONTRACTOR SHALL REPLACE EXISTING CURB AND PAVEMENT TO MATCH EXISTING CONDITIONS PER CITY STANDARDS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

### KEYNOTES

1. REMOVAL ITEMS
  - 1.1. SAWCUT PAVEMENT
  - 1.2. REMOVE BITUMINOUS PAVEMENT
  - 1.3. REMOVE CURB AND GUTTER
  - 1.4. REMOVE GRAVEL SURFACE
2. PROTECT ITEMS
  - 2.1. PROTECT EXISTING STORM SEWER STRUCTURES AND APPURTENANCES
  - 2.2. PROTECT EXISTING SANITARY SEWER STRUCTURES AND APPURTENANCES
  - 2.3. PROTECT EXISTING WATERMAIN AND APPURTENANCES
  - 2.4. PROTECT UNDERGROUND ELECTRIC LINE AND APPURTENANCES
  - 2.5. PROTECT EXISTING CONCRETE PAVEMENT
  - 2.6. PROTECT EXISTING CURB AND GUTTER
  - 2.7. PROTECT EXISTING RETAINING WALL
  - 2.8. PROTECT EXISTING FENCE
  - 2.9. PROTECT EXISTING GRAVEL SURFACE
3. EROSION CONTROL ITEMS
  - 3.1. SILT FENCE - SEE DETAIL SHEET NO. 3/C-805
  - 3.2. STABILIZED ROCK CONSTRUCTION EXIT - SEE DETAIL 9/C-803

### WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



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**ALBUQUERQUE 10 MW  
DATA CENTER**  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER DAYTONA RD NW ALBUQUERQUE, NEW MEXICO 87121
03/08/2024	DRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	DRB RESUBMITTAL	3	

CERTIFICATION:

NOTED: *Colleen M. Johnson*

PROJECT NO.: 193806697

DWN BY: HKK    CHKD BY: JRA    APPD BY: CMR

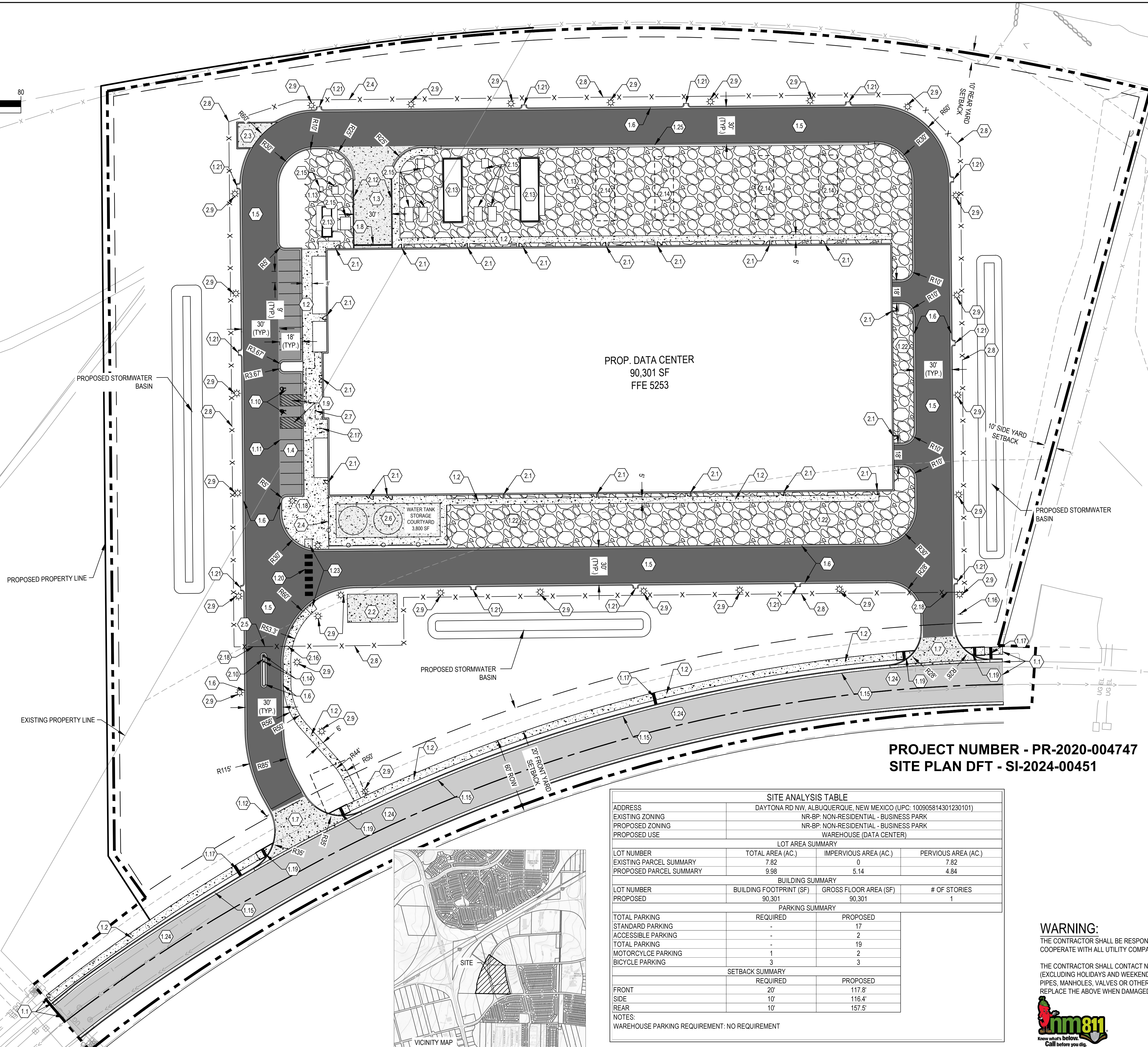
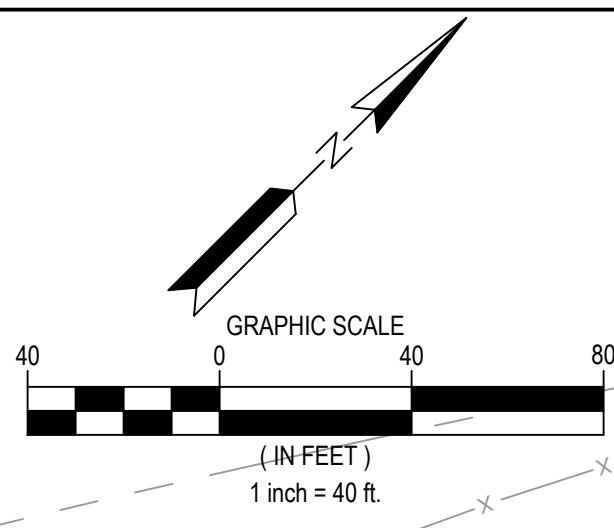
ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE:  
REMOVALS AND  
PRECONSTRUCTION  
EROSION CONTROL PLAN

SHEET NO.:  
**C-005**





LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER LINE
- CURB AND GUTTER
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- DAYTONA ROAD ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- GRAVEL SURFACING/SHOULDERING
- SCREEN WALL
- PERIMETER FENCE

NOTES

- SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED
- PROPOSED IMPROVEMENTS ADJACENT TO ALBUQUERQUE DATA CENTER PROJECT SITE ARE SHOWN. REFERENCE DAYTONA RD EXPANSION PLANS (SEPARATE PROJECT) FOR MORE INFORMATION. COORDINATE WITH DAYTONA RD EXPANSION PROJECT TO PROVIDE SMOOTH TRANSITION AT TIE-IN POINTS.
- DESIGNED BY OTHERS ITEMS SHOWN FOR REFERENCE ONLY. EXACT LOCATION, DETAIL, AND DESIGN BY OTHERS. COORDINATE WITH PROJECT PARTNERS TO OBTAIN RELATED CONSTRUCTION DOCUMENTS/DRAWINGS.

KEYNOTES

- STANTEC DESIGN ITEMS
  - MATCH EXISTING
  - CONCRETE SIDEWALK - SEE DETAIL 2/C-810
  - CONCRETE PAVEMENT - SEE DETAIL 1/C-810
  - STANDARD DUTY ASPHALT PAVEMENT - SEE DETAIL 3/C-810
  - HEAVY DUTY ASPHALT PAVEMENT - SEE DETAIL 4/C-810
  - 6" CURB AND GUTTER - SEE DETAIL 2415A/C-801
  - CONCRETE DRIVEWAY APRON - SEE DETAIL 1/C-804
  - CONCRETE TRENCH DRAIN - SEE DETAIL 3/C-804
  - ADA ACCESSIBLE AISLE W/ SIGN - SEE DETAIL 1.2.5.6/C-803
  - ADA VAN ACCESSIBLE STALL W/ SIGN - SEE DETAIL 1.2.4.5.6/C-803
  - 4" WHITE PAINT STRIPE (TYP.) - SEE DETAIL 2/C-803
  - STOP SIGN - SEE DETAIL 1.5/C-803
  - GRAVEL SURFACING - SEE DETAIL 1/C-805
  - BOLLARD - SEE DETAIL 3/C-803
  - STANDARD CURB AND GUTTER - SEE DETAIL 2415A/C-801
  - 'EMERGENCY VEHICLES ONLY' SIGN - SEE DETAIL 1/C-8-03
  - SIDEWALK CULVERT - SEE DETAIL 2236/C-804
  - SEATING AREA - SEE LANDSCAPE PLANS
  - SIDEWALK WITH TRUNCATED DOMES - SEE DETAILS 2446/C-801, 2441/C-802, 2430/C-810
  - CROSSWALK - SEE DETAIL 2/C-803
  - CONCRETE CURB CUT - SEE DETAIL 2/C-804
  - ROCK MULCH - SEE LANDSCAPE PLANS
  - ADA CURB RAMP - SEE DETAILS 2440,2241/C-802, 2442/C-807, 2443,2444/C-808
  - DAYTONA ROAD ASPHALT PAVEMENT - SEE COA DWG 2407/C-802
  - SURMOUNTABLE CURB AND GUTTER - SEE DETAIL 2415A/C-801
- DESIGN BY OTHERS - SEE NOTE 4
  - DOOR LOCATION WITH STOOP - SEE ARCHITECTURAL/STRUCTURAL PLANS
  - MEDIUM VOLTAGE SWITCH GEAR - SEE ARCHITECTURAL/STRUCTURAL/ELECTRICAL PLANS
  - TRASH/RECYCLING ENCLOSURE - SEE ARCHITECTURAL PLANS
  - SCREEN WALL/ARCHITECTURAL BUILDING ELEMENT - SEE ARCHITECTURAL PLANS
  - 30' ROLLING GATE - SEE ARCHITECTURAL PLANS
  - STRUCTURAL PAD FOR WATER TANKS - SEE ARCHITECTURAL/STRUCTURAL PLANS
  - CANOPY LOCATION - SEE ARCHITECTURAL/STRUCTURAL PLANS
  - 6' PERIMETER SECURITY FENCE - SEE ARCHITECTURAL PLANS
  - LIGHT POLE - SEE ARCHITECTURAL/ELECTRICAL PLANS
  - CARD READER PEDESTAL - SEE ELECTRICAL PLANS
  - COLUMN - SEE ARCHITECTURAL/STRUCTURAL PLANS
  - RETAINING WALL - SEE ARCHITECTURAL/STRUCTURAL PLANS
  - PROPOSED GENERATOR - SEE ELECTRICAL PLANS
  - UTILITY EQUIPMENT PAD - SEE ELECTRICAL PLANS
  - PEDESTRIAN GATE - SEE ARCHITECTURAL PLANS
  - BIKE RACK - SEE LANDSCAPE PLANS
  - KNOX BOX ON GATE - SEE ARCHITECTURAL PLANS

PROJECT NUMBER - PR-2020-004747  
SITE PLAN DFT - SI-2024-00451

SITE ANALYSIS TABLE			
ADDRESS	DAYTONA RD NW, ALBUQUERQUE, NEW MEXICO (UPC: 100905814301230101)		
EXISTING ZONING	NR-BP: NON-RESIDENTIAL - BUSINESS PARK		
PROPOSED ZONING	NR-BP: NON-RESIDENTIAL - BUSINESS PARK		
PROPOSED USE	WAREHOUSE (DATA CENTER)		
LOT AREA SUMMARY			
LOT NUMBER	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)
EXISTING PARCEL SUMMARY	7.82	0	7.82
PROPOSED PARCEL SUMMARY	9.98	5.14	4.84
BUILDING SUMMARY			
LOT NUMBER	BUILDING FOOTPRINT (SF)	GROSS FLOOR AREA (SF)	# OF STORIES
PROPOSED	90,301	90,301	1
PARKING SUMMARY			
	REQUIRED	PROPOSED	
TOTAL PARKING	-	17	
STANDARD PARKING	-	2	
ACCESSIBLE PARKING	-	19	
TOTAL PARKING	1	2	
MOTORCYCLE PARKING	3	3	
BICYCLE PARKING			
SETBACK SUMMARY			
	REQUIRED	PROPOSED	
FRONT	20'	117.8'	
SIDE	10'	116.4'	
REAR	10'	157.5'	
NOTES:	WAREHOUSE PARKING REQUIREMENT: NO REQUIREMENT		



WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



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SUITE 1000  
MINNEAPOLIS, MN 55402  
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CLIENT:



ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO:

0

1

2

3

DATE

01/08/2024

03/08/2024

03/20/2024

04/24/2024

DESCRIPTION

PRE APPLICATION SUBMITTAL

DRB SUBMITTAL

BID SET

DRB RESUBMITTAL

CERTIFICATION:

COLLEEN M. ...

PROFESSIONAL ENGINEER

03/27/2024

PROJECT NO.: 193806697

DWN BY: HKK

CHKD BY: JRA

APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

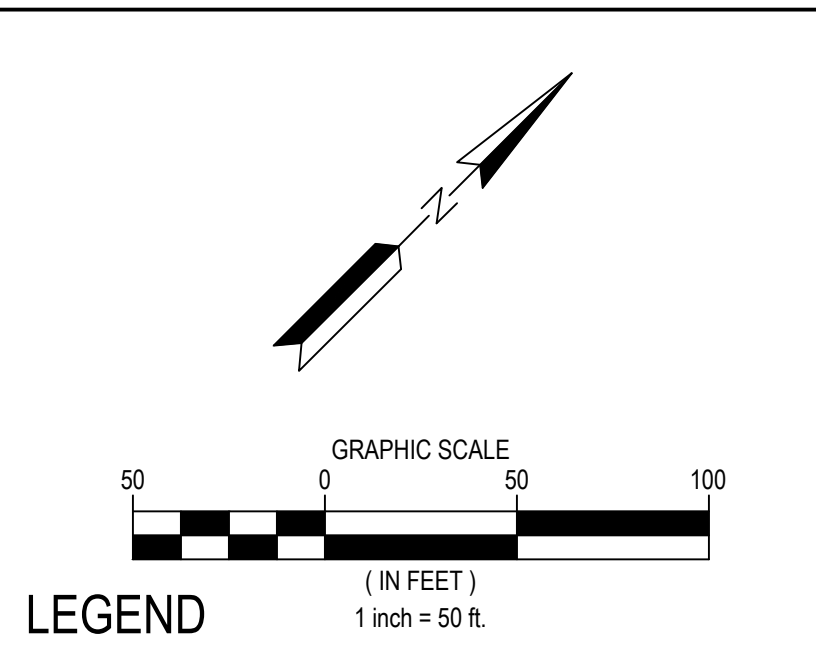
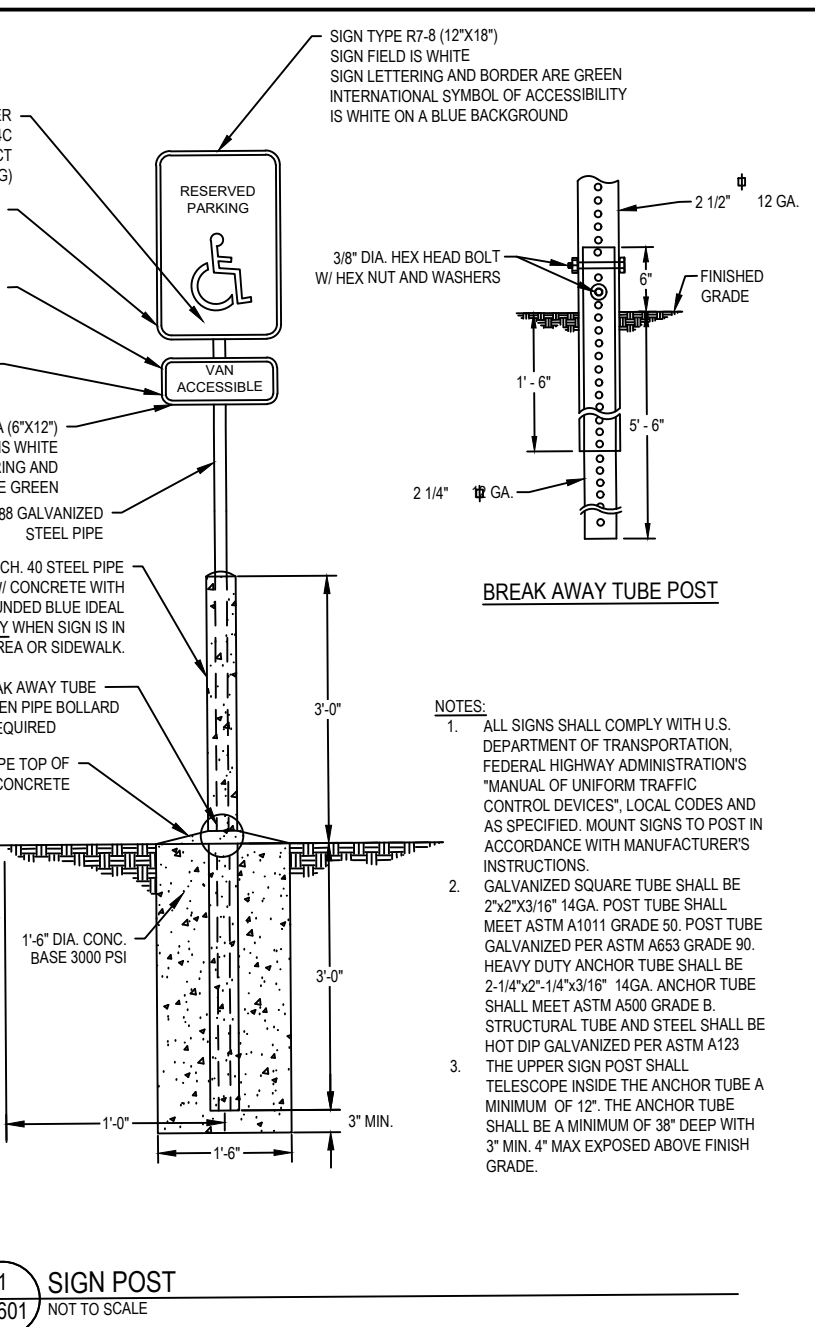
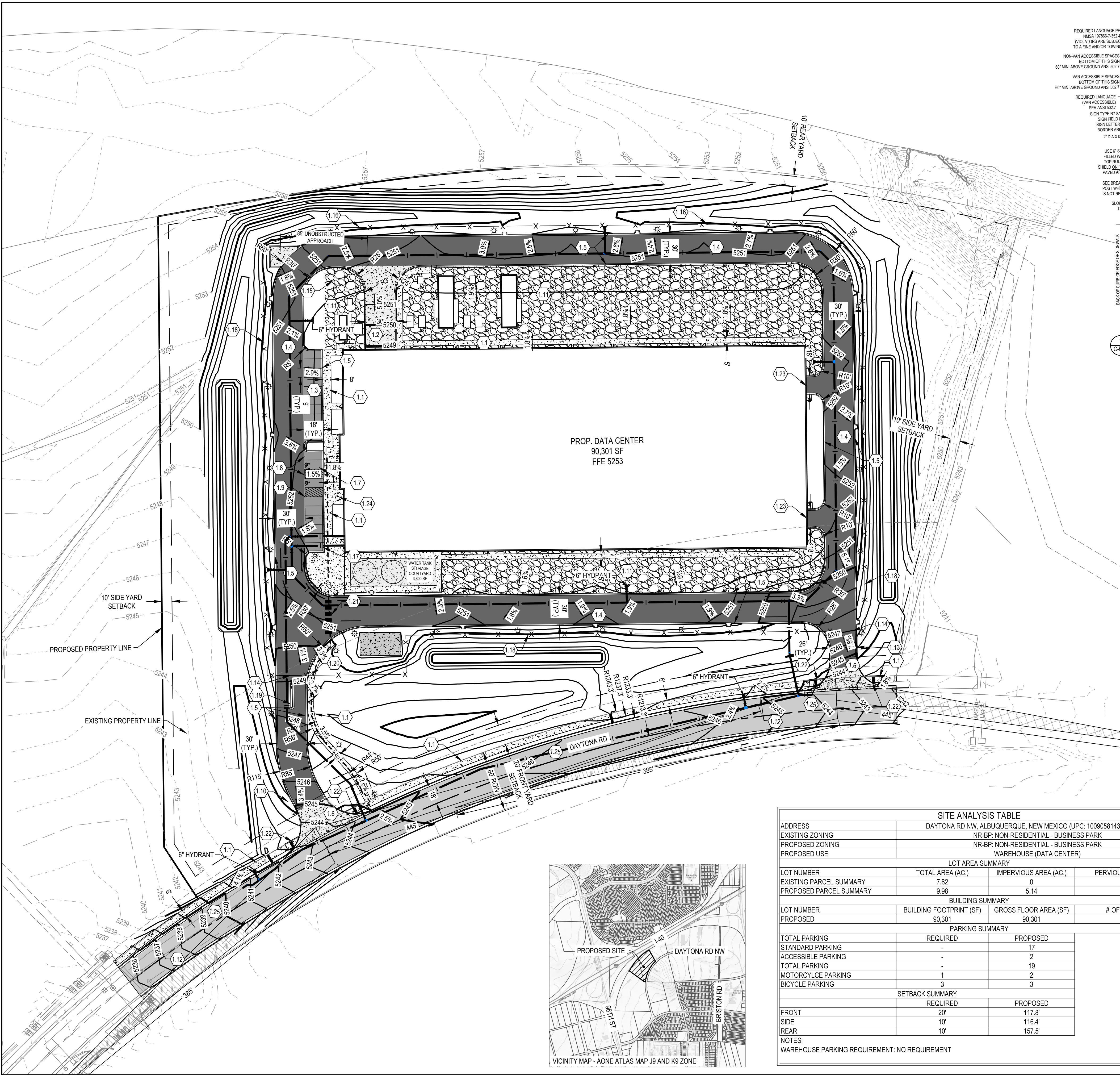
SHEET TITLE:

SITE PLAN

SHEET NO.:

C-101



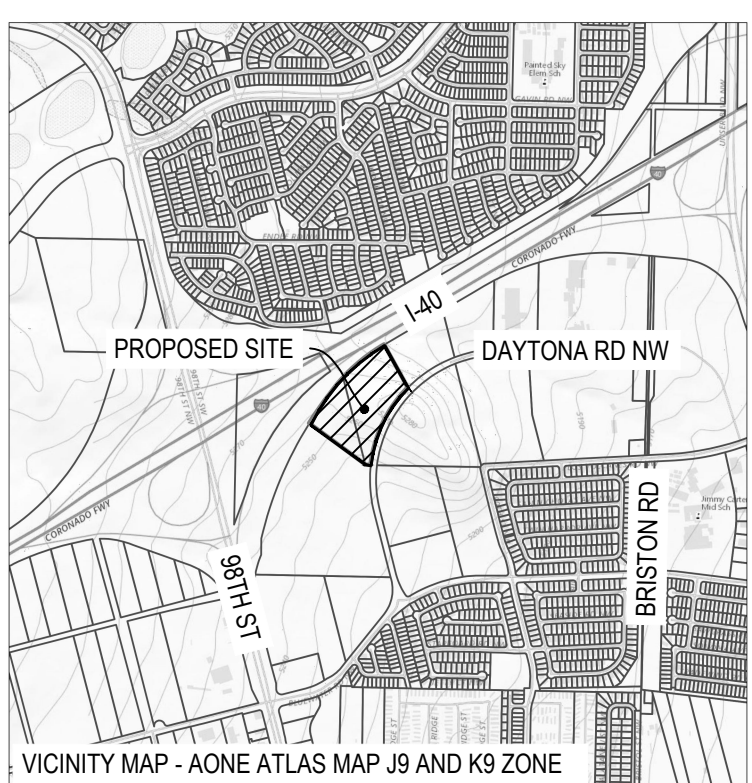


- ### LEGEND
- PROPERTY BOUNDARY
  - LOT LINE
  - EASEMENT LINE
  - SETBACK LINE
  - RIGHT OF WAY LINE
  - EXISTING EASEMENT LINE
  - CURB AND GUTTER
  - STANDARD DUTY ASPHALT PAVEMENT
  - HEAVY DUTY ASPHALT PAVEMENT
  - DAYTONA ROAD ASPHALT PAVEMENT
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - GRAVEL SURFACING
  - SCREEN WALL
  - PERIMETER FENCE
  - FIRE APPARATUS TURNING RADIUS - INSIDE MIN. 28'
  - ADA PATHWAY
  - LEFT CLEAR SITE TRIANGLE
  - RIGHT CLEAR SITE TRIANGLE
  - HYDRANT
  - GATE VALVE
  - LIGHTPOLE
  - SIGN
  - BOLLARD

- ### NOTES
- ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES', LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - GALVANIZED SQUARE TUBE SHALL BE 2"x2"x1/8" 14GA. POST TUBE SHALL MEET ASTM A1011 GRADE 55. POST TUBE GALVANIZED PER ASTM A653 GRADE 59. HEAVY DUTY ANCHOR TUBE SHALL BE 2 1/2"x2 1/2"x1/8" 14GA. ANCHOR TUBE SHALL MEET ASTM A500 GRADE B. STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A1029.
  - THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM OF 38" DEEP WITH 3" MIN. 4" MAX EXPOSED ABOVE FINISH GRADE.

- ### KEYNOTES
- CONCRETE SIDEWALK - SEE COA DWG. 2430
  - CONCRETE PAVEMENT
  - STANDARD DUTY ASPHALT PAVEMENT - SEE COA DWG. 2405A
  - HEAVY DUTY ASPHALT PAVEMENT
  - 6" CURB AND GUTTER - SEE COA DWG. 2415A
  - CONCRETE DRIVEWAY APRON
  - ADA ACCESSIBLE AISLE W/ SIGN
  - ADA VAN ACCESSIBLE STALL W/ SIGN
  - 4" WHITE PAINT STRIPE (TYP.)
  - STOP SIGN - SEE COA DWG. 2600-201, 2600-701, 702, 703
  - GRAVEL SURFACING
  - 8" CURB AND GUTTER - SEE COA DWG. 2415A
  - 'EMERGENCY VEHICLES ONLY' SIGN - SEE COA DWG. 2600-701, 702, 703
  - 30" ROLLING GATE WITH KNOX BOX
  - TRASH/RECYCLING ENCLOSURE - SEE ARCHITECTURAL PLANS
  - SCREEN WALL - SEE ARCHITECTURAL PLANS
  - MOTORCYCLE PARKING
  - PERIMETER FENCE - SEE ARCHITECTURAL PLANS
  - CARD READER PEDESTAL - SEE ELECTRICAL PLANS
  - PEDESTRIAN GATE - SEE ARCHITECTURAL PLANS
  - CROSSWALK - SEE COA DWG. 2600-106
  - CURB RAMP WITH TRUNCATED DOMES - SEE COA DWG. 2446
  - DRIVE IN DOORS FOR FORKLIFT TRAFFIC ONLY - NO TRUCK DELIVERIES
  - BIKE RACK - SEE LANDSCAPE PLANS
  - DAYTONA ROAD ASPHALT PAVEMENT - SEE COA DWG 2407

SITE ANALYSIS TABLE			
ADDRESS	DAYTONA RD NW, ALBUQUERQUE, NEW MEXICO (UPC: 10090581430120101)		
EXISTING ZONING	NR-BP: NON-RESIDENTIAL - BUSINESS PARK		
PROPOSED ZONING	NR-BP: NON-RESIDENTIAL - BUSINESS PARK		
PROPOSED USE	WAREHOUSE (DATA CENTER)		
LOT AREA SUMMARY			
LOT NUMBER	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)
EXISTING PARCEL SUMMARY	7.82	0	7.82
PROPOSED PARCEL SUMMARY	9.98	5.14	4.84
BUILDING SUMMARY			
LOT NUMBER	BUILDING FOOTPRINT (SF)	GROSS FLOOR AREA (SF)	# OF STORIES
PROPOSED	90,301	90,301	1
PARKING SUMMARY			
	REQUIRED	PROPOSED	
TOTAL PARKING	-	17	
ACCESSIBLE PARKING	-	2	
TOTAL PARKING	-	19	
MOTORCYCLE PARKING	1	2	
BICYCLE PARKING	3	3	
SETBACK SUMMARY			
	REQUIRED	PROPOSED	
FRONT	20'	117.8'	
SIDE	10'	116.4'	
REAR	10'	157.5'	
NOTES:	WAREHOUSE PARKING REQUIREMENT: NO REQUIREMENT		



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SUITE 1000  
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CLIENT:

OPPIDAN  
Group of Experts. Greater of Value.

**ALBUQUERQUE 10 MW DATA CENTER**  
 DAYTONA RD NW  
 ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

DATE	DESCRIPTION	ISSUE NO.
01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	DRB SUBMITTAL	1
03/20/2024	BID SET	2
04/24/2024	DRB RESUBMITTAL	3

CERTIFICATION:

NOTED: *Colleen M. Hickey*

PROJECT NO.: 193806697

DWN BY: HKK    CHKD BY: JRA    APPD BY: CMR

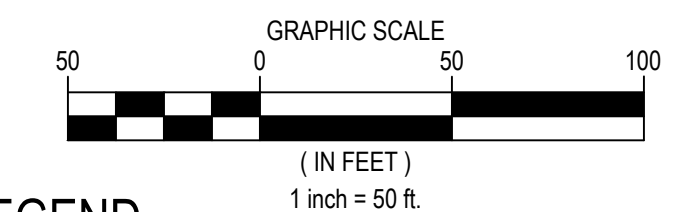
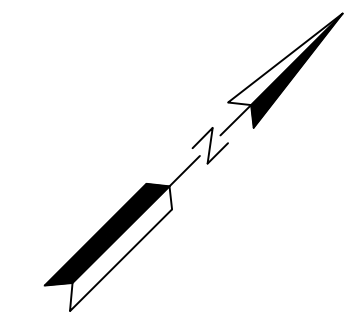
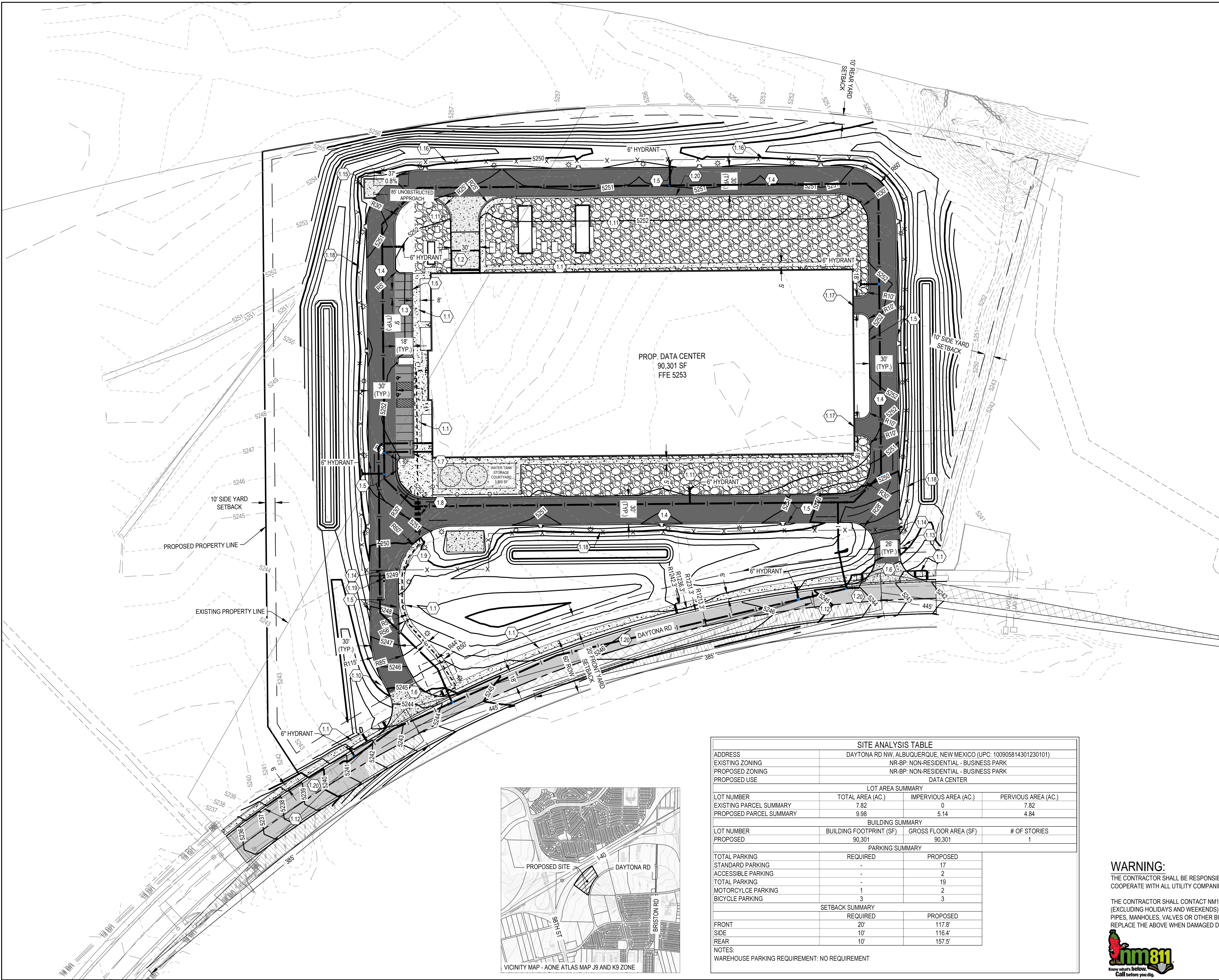
ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE: TCL PLAN

SHEET NO.: C-601





**LEGEND**

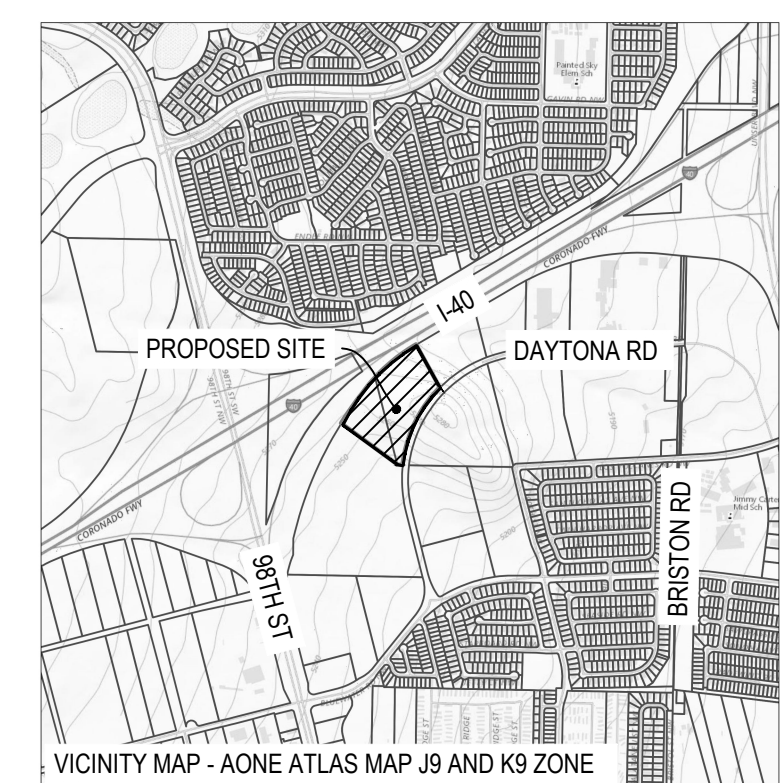
- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- CURB AND GUTTER
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- DAYTONA ROAD ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- GRAVEL SURFACING
- SCREEN WALL
- PERIMETER FENCE
- FIRE APPARATUS TURNING RADIUS - INSIDE MIN. 28'
- ADA PATHWAY
- LEFT CLEAR SITE TRIANGLE
- RIGHT CLEAR SITE TRIANGLE
- HYDRANT
- GATE VALVE
- LIGHTPOLE
- SIGN
- BOLLARD

**NOTES**

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

**KEYNOTES**

- 1.1. CONCRETE SIDEWALK - SEE COA DWG. 2430
- 1.2. CONCRETE PAVEMENT
- 1.3. STANDARD DUTY ASPHALT PAVEMENT - SEE COA DWG. 2405A
- 1.4. HEAVY DUTY ASPHALT PAVEMENT
- 1.5. 6" CURB AND GUTTER - SEE COA DWG. 2415A
- 1.6. CONCRETE DRIVEWAY APRON
- 1.7. MOTORCYCLE PARKING
- 1.8. CROSSWALK - SEE COA DWG. 2600-106
- 1.9. PEDESTRIAN GATE - SEE ARCHITECTURAL PLANS
- 1.10. STOP SIGN - SEE COA DWG. 2600-201, 2600-701, 702, 703
- 1.11. GRAVEL SURFACING
- 1.12. 8" CURB AND GUTTER - SEE COA DWG. 2415A
- 1.13. 'EMERGENCY VEHICLES ONLY' SIGN - SEE COA DWG. 2600-701, 702, 703
- 1.14. 30' ROLLING GATE WITH KNOX BOX
- 1.15. TRASH/RECYCLING ENCLOSURE - SEE ARCHITECTURAL PLANS
- 1.16. SCREEN WALL - SEE ARCHITECTURAL PLANS
- 1.17. DRIVE IN DOORS FOR FORKLIFT TRAFFIC ONLY - NO TRUCK DELIVERIES
- 1.18. PERIMETER FENCE - SEE ARCHITECTURAL PLANS
- 1.19. CARD READER PEDESTAL - SEE ELECTRICAL PLANS
- 1.20. DAYTONA ROAD ASPHALT PAVEMENT - SEE COA DWG 2407



SITE ANALYSIS TABLE			
ADDRESS	DAYTONA RD NW, ALBUQUERQUE, NEW MEXICO (UPC: 100905814301230101)		
EXISTING ZONING	NR-BP: NON-RESIDENTIAL - BUSINESS PARK		
PROPOSED ZONING	NR-BP: NON-RESIDENTIAL - BUSINESS PARK		
PROPOSED USE	DATA CENTER		
LOT AREA SUMMARY			
LOT NUMBER	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)
EXISTING PARCEL SUMMARY	7.82	0	7.82
PROPOSED PARCEL SUMMARY	9.98	5.14	4.84
BUILDING SUMMARY			
LOT NUMBER	BUILDING FOOTPRINT (SF)	GROSS FLOOR AREA (SF)	# OF STORIES
PROPOSED	90,301	90,301	1
PARKING SUMMARY			
	REQUIRED	PROPOSED	
TOTAL PARKING	-	17	
ACCESSIBLE PARKING	-	2	
TOTAL PARKING	-	19	
MOTORCYCLE PARKING	1	2	
BICYCLE PARKING	3	3	
SETBACK SUMMARY			
	REQUIRED	PROPOSED	
FRONT	20'	117.8'	
SIDE	10'	116.4'	
REAR	10'	157.5'	
NOTES:			
WAREHOUSE PARKING REQUIREMENT: NO REQUIREMENT			

**WARNING:**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

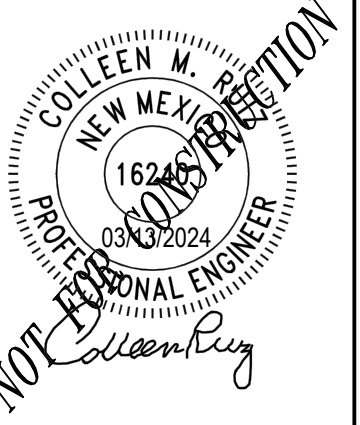


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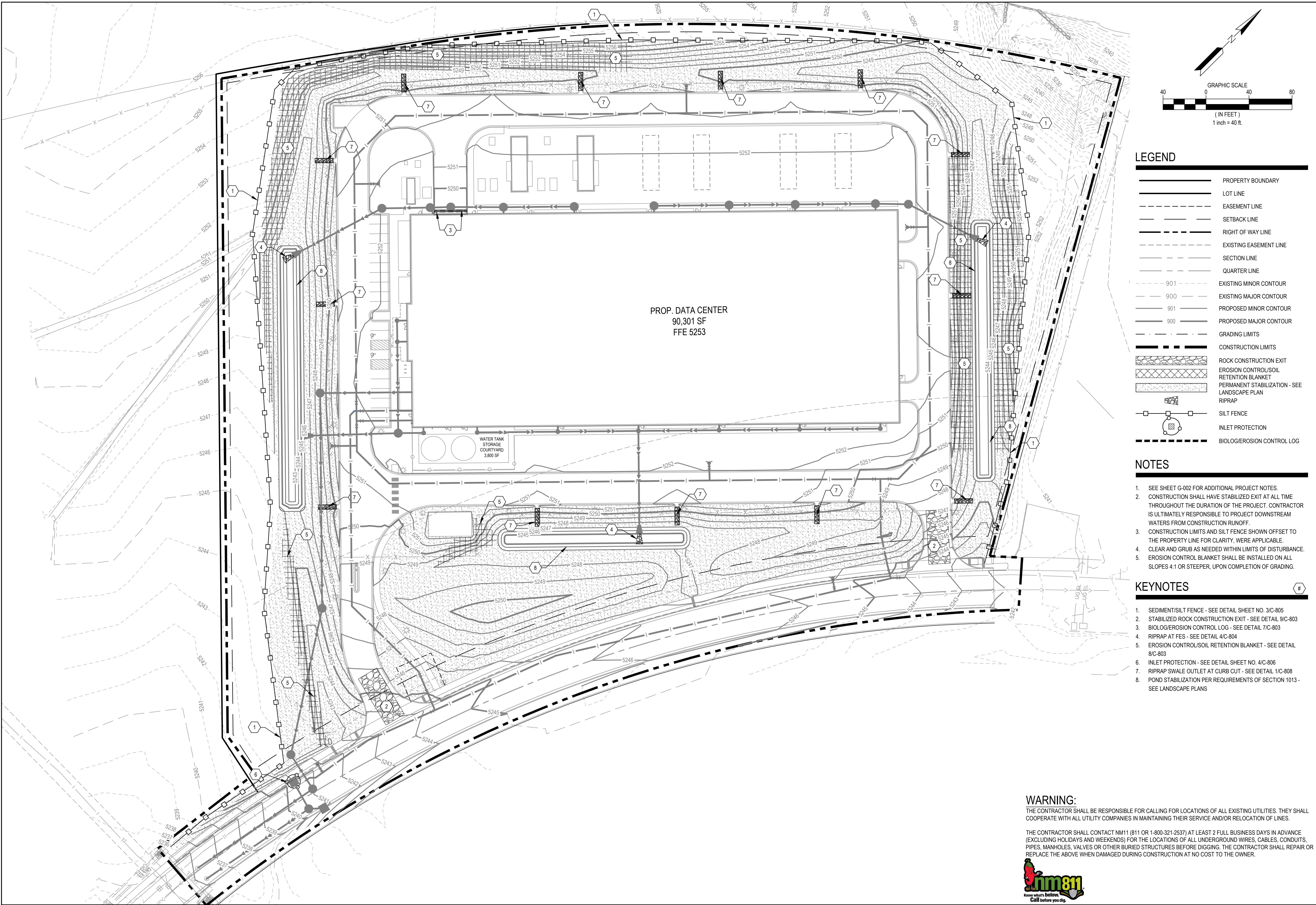
**ALBUQUERQUE 10 MW  
 DATA CENTER**  
 DAYTONA RD NW  
 ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER
03/08/2024	DRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	DRB RESUBMITTAL	3	



PROJECT NO.:	193806697	
DWN BY:	CHKD BY:	APPD BY:
HKK	JRA	CMR
ISSUE DATE:	04/24/2024	
ISSUE NO.:	3	
SHEET TITLE:	SOLID WASTE PLAN	
SHEET NO.:	C-602	





### LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- GRADING LIMITS
- CONSTRUCTION LIMITS
- ROCK CONSTRUCTION EXIT
- EROSION CONTROL/SOIL RETENTION BLANKET
- PERMANENT STABILIZATION - SEE LANDSCAPE PLAN
- RIPRAP
- SILT FENCE
- INLET PROTECTION
- BIOLOGEROSION CONTROL LOG

- ### NOTES
- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
  - CONSTRUCTION SHALL HAVE STABILIZED EXIT AT ALL TIME THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROJECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
  - CONSTRUCTION LIMITS AND SILT FENCE SHOWN OFFSET TO THE PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
  - CLEAR AND GRUB AS NEEDED WITHIN LIMITS OF DISTURBANCE.
  - EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 4:1 OR STEEPER, UPON COMPLETION OF GRADING.

- ### KEYNOTES
- SEDIMENT/SILT FENCE - SEE DETAIL SHEET NO. 3/C-805
  - STABILIZED ROCK CONSTRUCTION EXIT - SEE DETAIL 9/C-803
  - BIOLOGEROSION CONTROL LOG - SEE DETAIL 7/C-803
  - RIPRAP AT FES - SEE DETAIL 4/C-804
  - EROSION CONTROL/SOIL RETENTION BLANKET - SEE DETAIL 8/C-803
  - INLET PROTECTION - SEE DETAIL SHEET NO. 4/C-806
  - RIPRAP SWALE OUTLET AT CURB CUT - SEE DETAIL 1/C-808
  - POND STABILIZATION PER REQUIREMENTS OF SECTION 1013 - SEE LANDSCAPE PLANS

**WARNING:**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

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CLIENT:

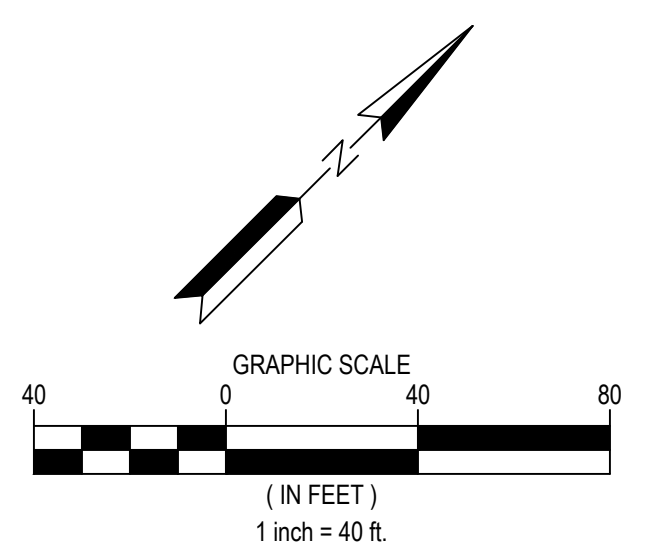
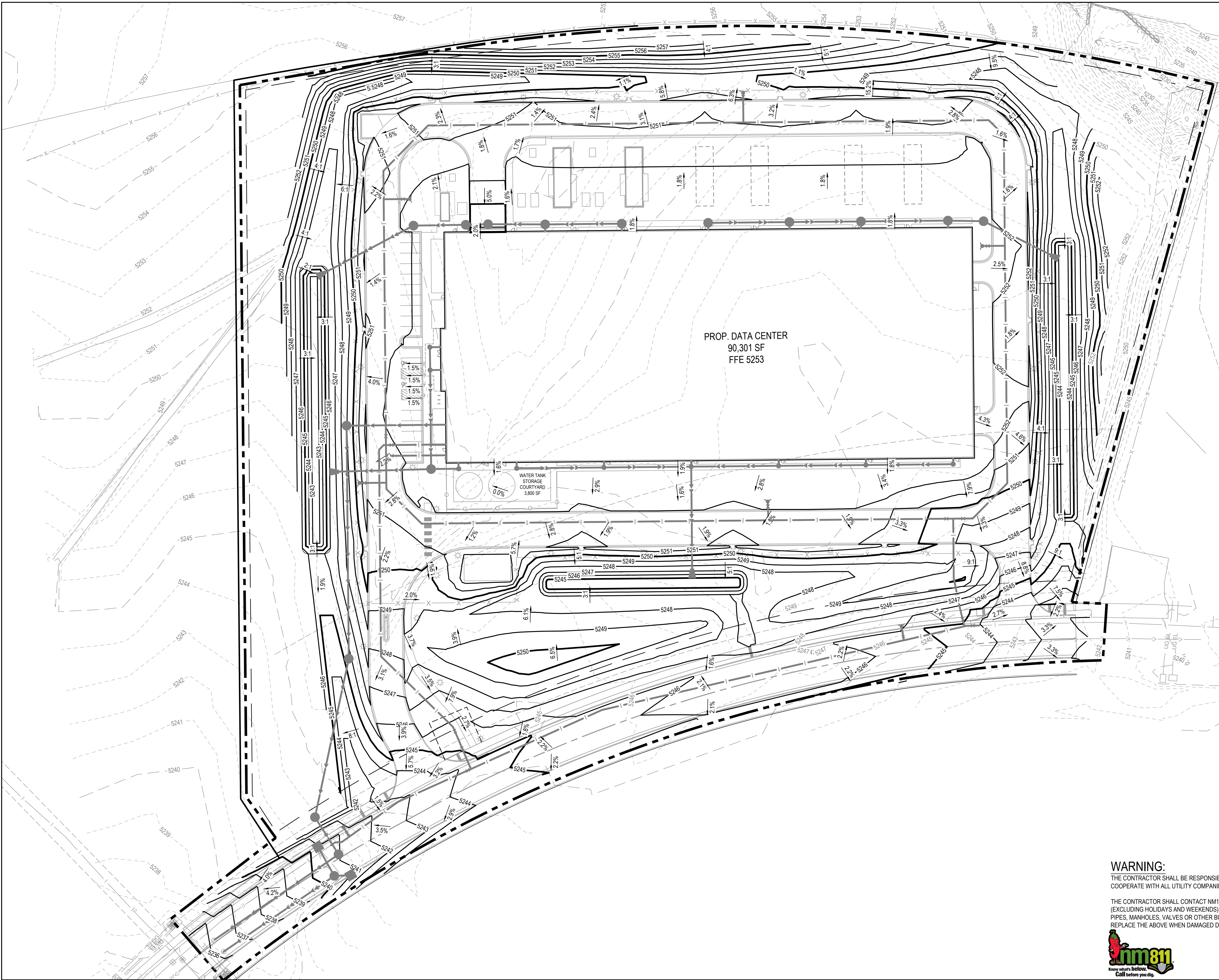
**ALBUQUERQUE 10 MW  
 DATA CENTER**  
 DAYTONA RD NW  
 ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER
03/08/2024	DRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	DRB RESUBMITTAL	3	

CERTIFICATION:

PROJECT NO.:	193806697
DWN BY:	HKK
CHKD BY:	JRA
APPD BY:	CMR
ISSUE DATE:	04/24/2024
ISSUE NO.:	3
SHEET TITLE:	POST-CONSTRUCTION STABILIZATION PLAN
SHEET NO.:	C-201





**LEGEND**

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	EXISTING EASEMENT LINE
	SECTION LINE
	QUARTER LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	CONSTRUCTION LIMITS

**NOTES**

- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.

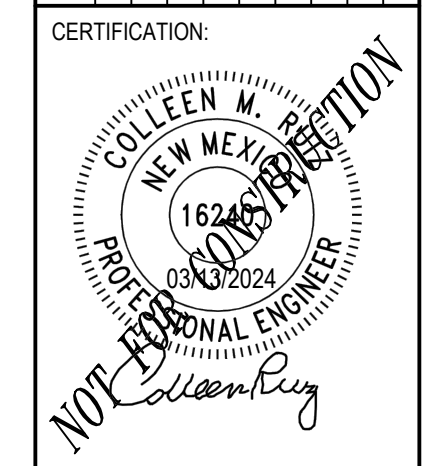


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MINNEAPOLIS, MN 55402  
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**ALBUQUERQUE 10 MW  
DATA CENTER**  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.
01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	DRB SUBMITTAL	1
03/20/2024	BID SET	2
04/24/2024	DRB RESUBMITTAL	3



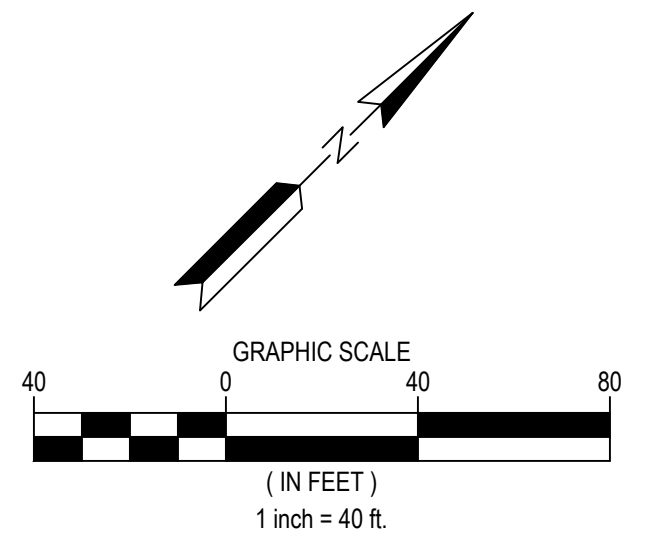
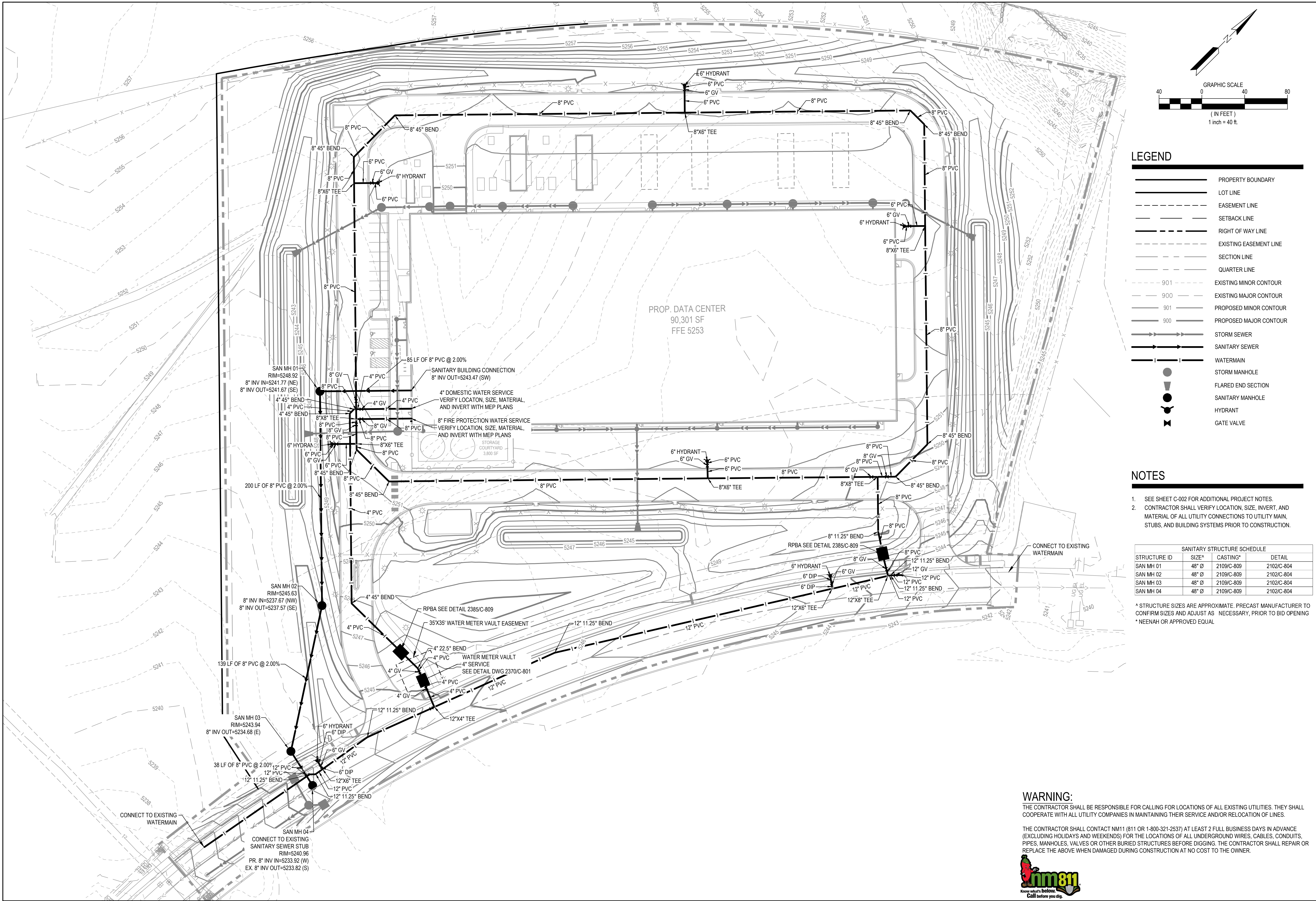
PROJECT NO.:	193806697
DWN BY:	HKK
CHKD BY:	JRA
APPD BY:	CMR
ISSUE DATE:	04/24/2024
ISSUE NO.:	3
SHEET TITLE:	GRADING PLAN
SHEET NO.:	C-301

**WARNING:**  
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**LEGEND**

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	EXISTING EASEMENT LINE
	SECTION LINE
	QUARTER LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	STORM SEWER
	SANITARY SEWER
	WATERMAIN
	STORM MANHOLE
	FLARED END SECTION
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE

- NOTES**
- SEE SHEET C-002 FOR ADDITIONAL PROJECT NOTES.
  - CONTRACTOR SHALL VERIFY LOCATION, SIZE, INVERT, AND MATERIAL OF ALL UTILITY CONNECTIONS TO UTILITY MAIN, STUBS, AND BUILDING SYSTEMS PRIOR TO CONSTRUCTION.

**SANITARY STRUCTURE SCHEDULE**

STRUCTURE ID	SIZE*	CASTING*	DETAIL
SAN MH 01	48" Ø	2109/C-809	2102/C-804
SAN MH 02	48" Ø	2109/C-809	2102/C-804
SAN MH 03	48" Ø	2109/C-809	2102/C-804
SAN MH 04	48" Ø	2109/C-809	2102/C-804

\* STRUCTURE SIZES ARE APPROXIMATE. PRECAST MANUFACTURER TO CONFIRM SIZES AND ADJUST AS NECESSARY, PRIOR TO BID OPENING  
 \* NEENAH OR APPROVED EQUAL

**Stantec**

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 MINNEAPOLIS, MN 55402  
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CLIENT:

**OPPIDAN**  
 GROUP OF COMPANIES, CREATOR OF VALUE

**ALBUQUERQUE 10 MW  
 DATA CENTER**  
 DAYTONA RD NW  
 ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO.	DESCRIPTION	DATE
0	PRE APPLICATION SUBMITTAL	01/08/2024
1	PRB SUBMITTAL	03/08/2024
2	BID SET	03/20/2024
3	DBR RESUBMITTAL	04/24/2024

CERTIFICATION:

**COLLEEN M. HANLEY**  
 PROFESSIONAL ENGINEER  
 16245  
 03/22/2024

PROJECT NO.: 193806697

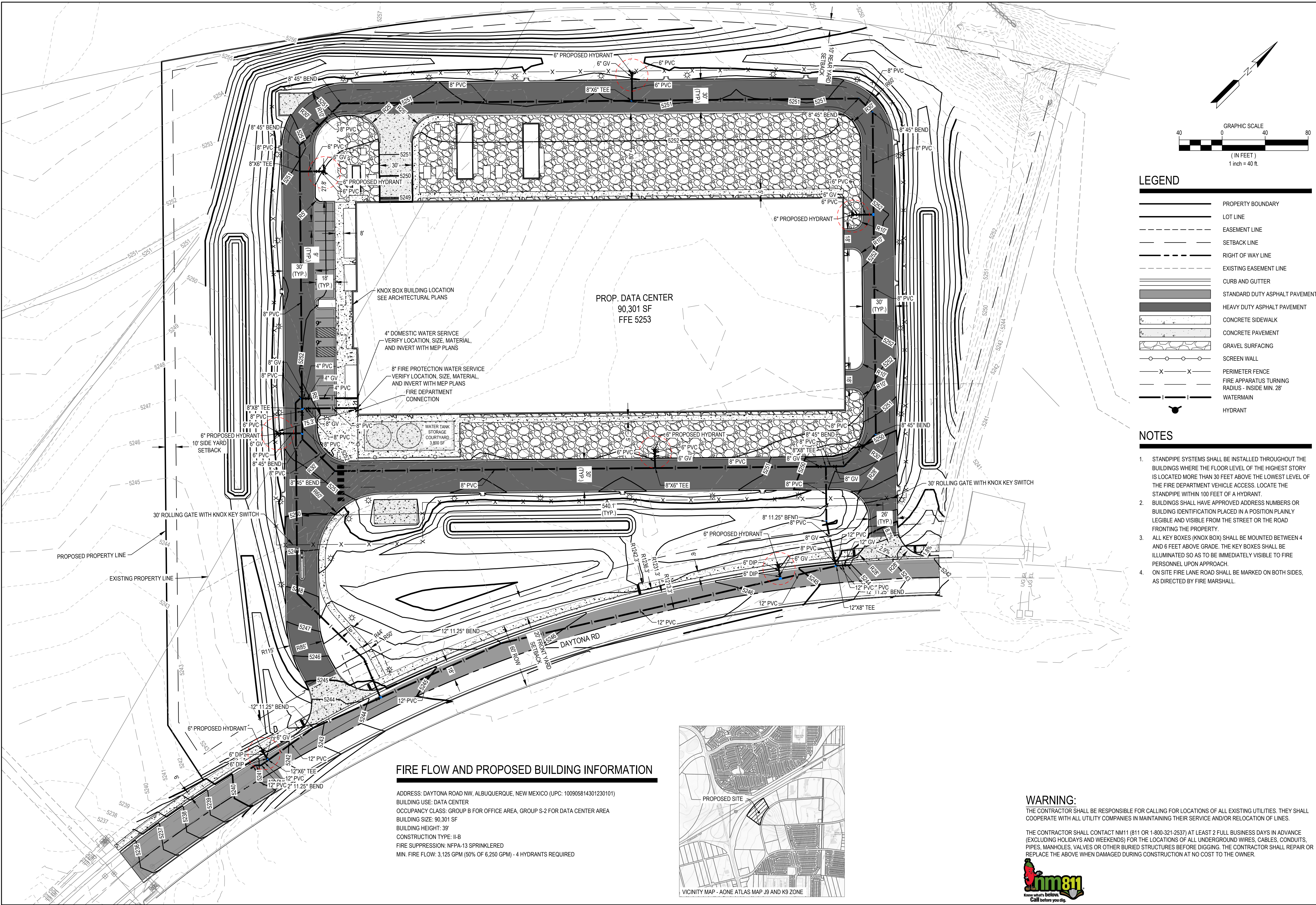
DWN BY: HKK	CHKD BY: JRA	APPD BY: CMR
ISSUE DATE: 04/24/2024	ISSUE NO.: 3	SHEET TITLE: UTILITY PLAN
SHEET NO.: C-401		

**WARNING:**  
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THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

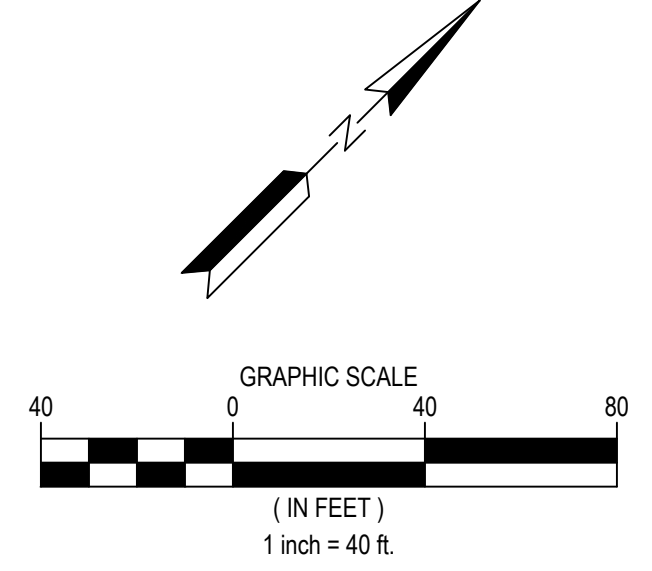
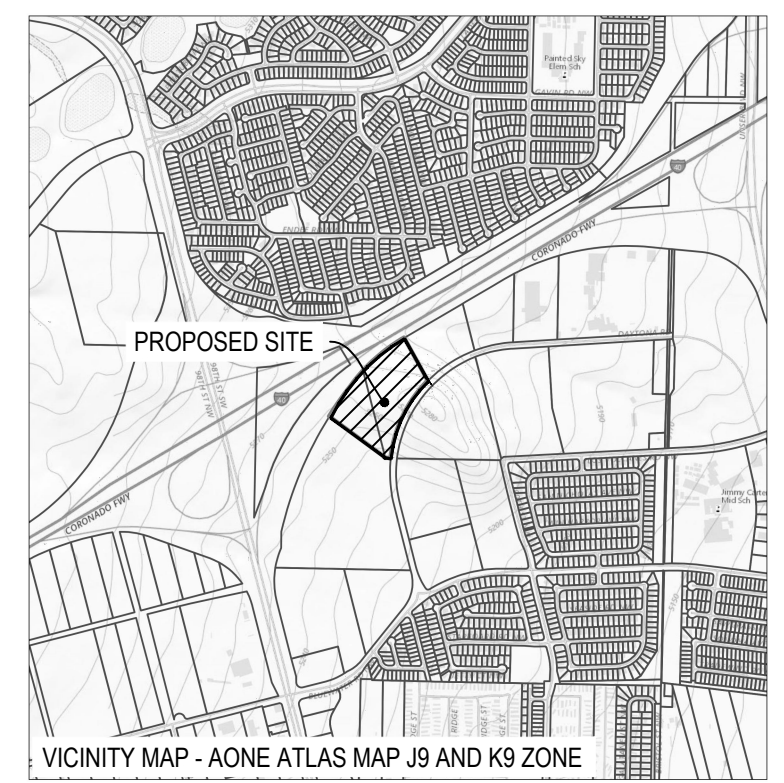
**nm811**  
 know what's below.  
 Call before you dig.





**FIRE FLOW AND PROPOSED BUILDING INFORMATION**

ADDRESS: DAYTONA ROAD NW, ALBUQUERQUE, NEW MEXICO (UPC: 100905814301230101)  
 BUILDING USE: DATA CENTER  
 OCCUPANCY CLASS: GROUP B FOR OFFICE AREA, GROUP S-2 FOR DATA CENTER AREA  
 BUILDING SIZE: 90,301 SF  
 BUILDING HEIGHT: 3'  
 CONSTRUCTION TYPE: II-B  
 FIRE SUPPRESSION: NFPA-13 SPRINKLERED  
 MIN. FIRE FLOW: 3,125 GPM (50% OF 6,250 GPM) - 4 HYDRANTS REQUIRED



**LEGEND**

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	EXISTING EASEMENT LINE
	CURB AND GUTTER
	STANDARD DUTY ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE PAVEMENT
	GRAVEL SURFACING
	SCREEN WALL
	PERIMETER FENCE
	FIRE APPARATUS TURNING RADIUS - INSIDE MIN. 28'
	WATERMAIN
	HYDRANT

- NOTES**
- STANDPIPE SYSTEMS SHALL BE INSTALLED THROUGHOUT THE BUILDINGS WHERE THE FLOOR LEVEL OF THE HIGHEST STORY IS LOCATED MORE THAN 30 FEET ABOVE THE LOWEST LEVEL OF THE FIRE DEPARTMENT VEHICLE ACCESS. LOCATE THE STANDPIPE WITHIN 100 FEET OF A HYDRANT.
  - BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS OR BUILDING IDENTIFICATION PLACED IN A POSITION PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR THE ROAD FRONTING THE PROPERTY.
  - ALL KEY BOXES (KNOX BOX) SHALL BE MOUNTED BETWEEN 4 AND 6 FEET ABOVE GRADE. THE KEY BOXES SHALL BE ILLUMINATED SO AS TO BE IMMEDIATELY VISIBLE TO FIRE PERSONNEL UPON APPROACH.
  - ON SITE FIRE LANE ROAD SHALL BE MARKED ON BOTH SIDES, AS DIRECTED BY FIRE MARSHALL.

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 MINNEAPOLIS, MN 55402  
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**ALBUQUERQUE 10 MW  
 DATA CENTER**  
 DAYTONA RD NW  
 ALBUQUERQUE, NEW MEXICO 87121

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DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER
03/08/2024	PRB SUBMITTAL	1	
03/20/2024	CRB SET	2	
04/24/2024	CRB RESUBMITTAL	3	

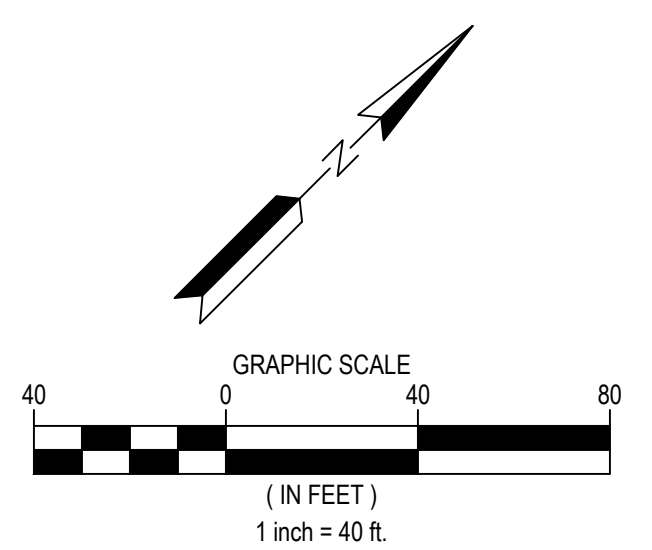
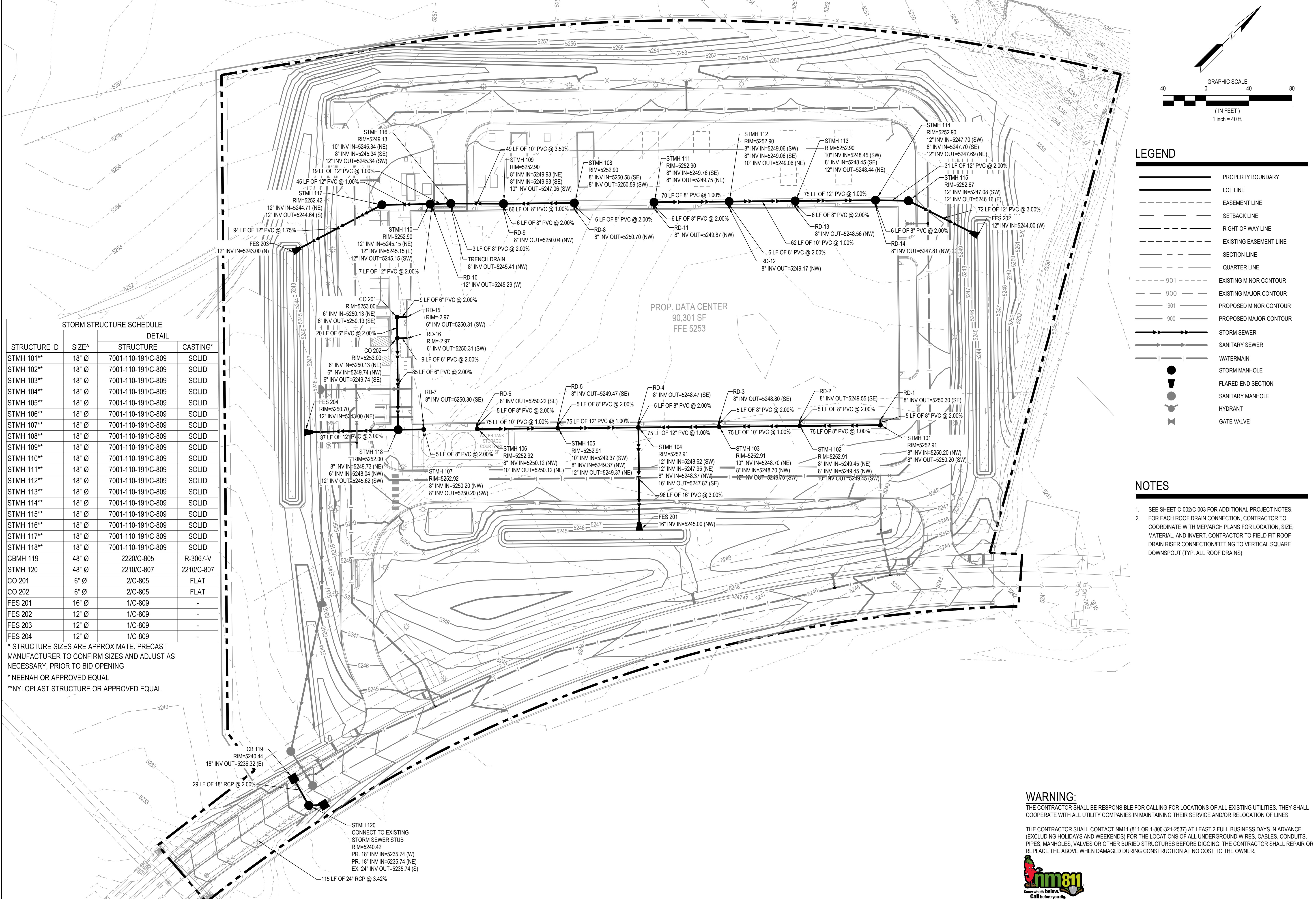
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NOTED: *Colleen M. New Mexico*

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PROJECT NO.: 193806697		
DWN BY: HKK	CHKD BY: JRA	APPD BY: CMR
ISSUE DATE: 04/24/2024		
ISSUE NO.: 3		
SHEET TITLE: FIRE 1 PLAN		
SHEET NO.: F-01		





STORM STRUCTURE SCHEDULE			
STRUCTURE ID	SIZE <sup>A</sup>	DETAIL	
		STRUCTURE	CASTING <sup>B</sup>
STMH 101**	18" Ø	7001-110-191/C-809	SOLID
STMH 102**	18" Ø	7001-110-191/C-809	SOLID
STMH 103**	18" Ø	7001-110-191/C-809	SOLID
STMH 104**	18" Ø	7001-110-191/C-809	SOLID
STMH 105**	18" Ø	7001-110-191/C-809	SOLID
STMH 106**	18" Ø	7001-110-191/C-809	SOLID
STMH 107**	18" Ø	7001-110-191/C-809	SOLID
STMH 108**	18" Ø	7001-110-191/C-809	SOLID
STMH 109**	18" Ø	7001-110-191/C-809	SOLID
STMH 110**	18" Ø	7001-110-191/C-809	SOLID
STMH 111**	18" Ø	7001-110-191/C-809	SOLID
STMH 112**	18" Ø	7001-110-191/C-809	SOLID
STMH 113**	18" Ø	7001-110-191/C-809	SOLID
STMH 114**	18" Ø	7001-110-191/C-809	SOLID
STMH 115**	18" Ø	7001-110-191/C-809	SOLID
STMH 116**	18" Ø	7001-110-191/C-809	SOLID
STMH 117**	18" Ø	7001-110-191/C-809	SOLID
STMH 118**	18" Ø	7001-110-191/C-809	SOLID
CBMH 119	48" Ø	2220/C-805	R-3067-V
STMH 120	48" Ø	2210/C-807	2210/C-807
CO 201	6" Ø	2/C-805	FLAT
CO 202	6" Ø	2/C-805	FLAT
FES 201	16" Ø	1/C-809	-
FES 202	12" Ø	1/C-809	-
FES 203	12" Ø	1/C-809	-
FES 204	12" Ø	1/C-809	-

<sup>A</sup> STRUCTURE SIZES ARE APPROXIMATE. PRECAST MANUFACTURER TO CONFIRM SIZES AND ADJUST AS NECESSARY, PRIOR TO BID OPENING  
<sup>B</sup> NEENAH OR APPROVED EQUAL  
<sup>C</sup> NYLOPLAST STRUCTURE OR APPROVED EQUAL

LEGEND	
	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	EXISTING EASEMENT LINE
	SECTION LINE
	QUARTER LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	STORM SEWER
	SANITARY SEWER
	WATERMAIN
	STORM MANHOLE
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE

- NOTES**
- SEE SHEET C-002/C-003 FOR ADDITIONAL PROJECT NOTES.
  - FOR EACH ROOF DRAIN CONNECTION, CONTRACTOR TO COORDINATE WITH MEP/ARCH PLANS FOR LOCATION, SIZE, MATERIAL, AND INVERT. CONTRACTOR TO FIELD FIT ROOF DRAIN RISER CONNECTION/FITTING TO VERTICAL SQUARE DOWNSPOUT (TYP. ALL ROOF DRAINS)

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 ALBUQUERQUE, NEW MEXICO 87121

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03/20/2024	BID SET	2
04/24/2024	DRB RESUBMITTAL	3

CERTIFICATION:

PROJECT NO.:	193806697	
DWN BY:	CHKD BY:	APPD BY:
HKK	JRA	CMR
ISSUE DATE:	04/24/2024	
ISSUE NO.:	3	
SHEET TITLE:	STORM SEWER PLAN	
SHEET NO.:	C-501	

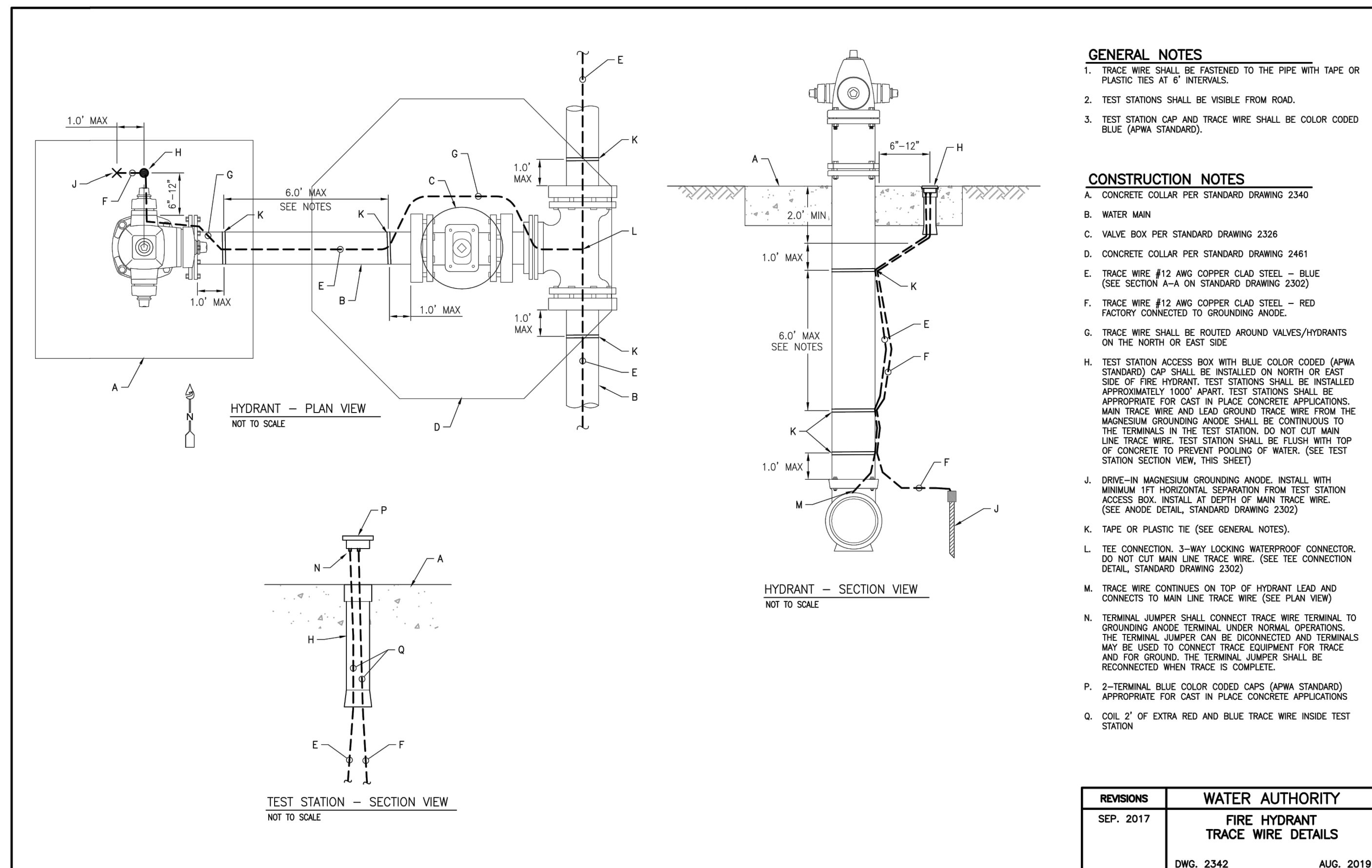
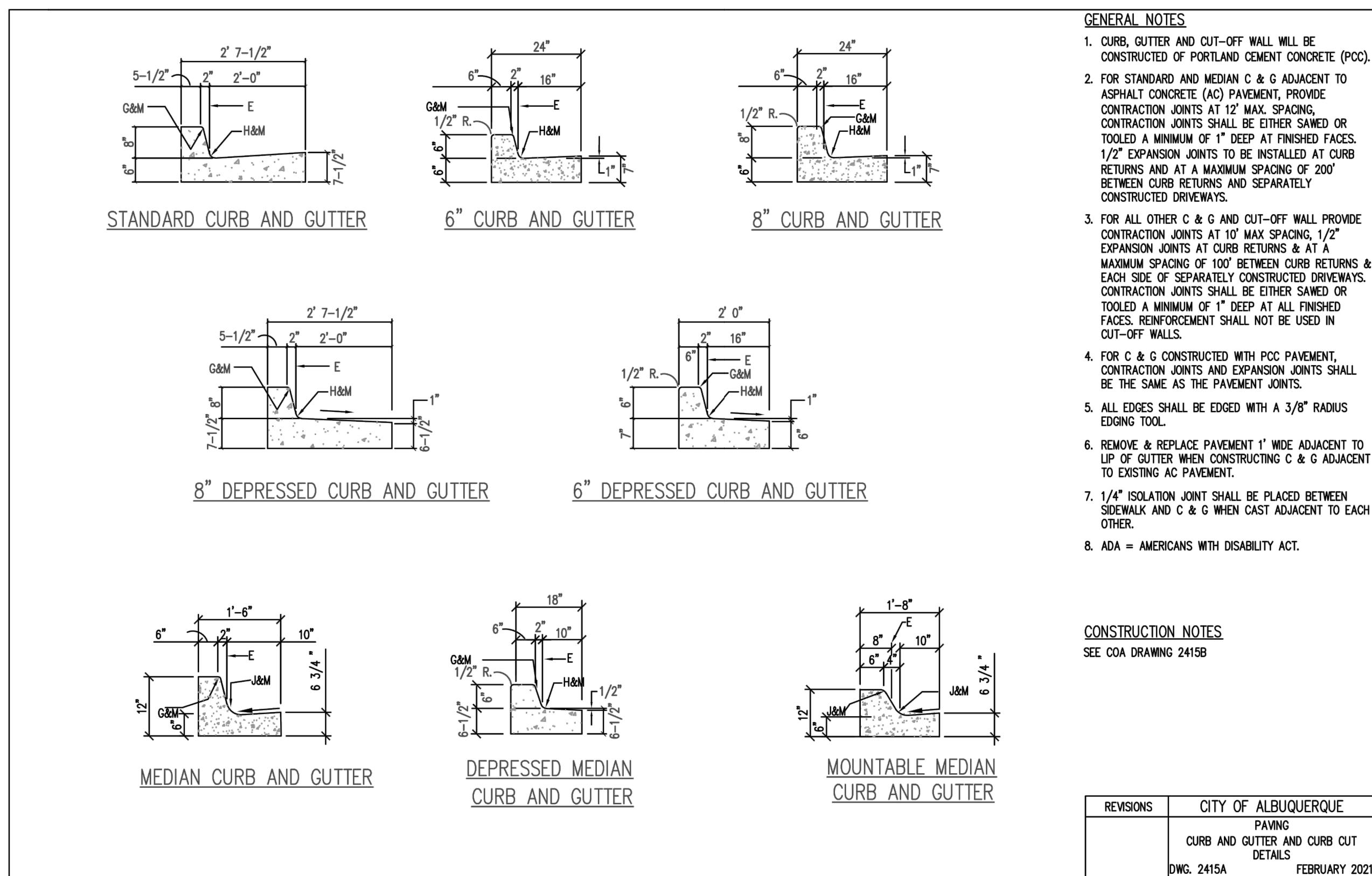
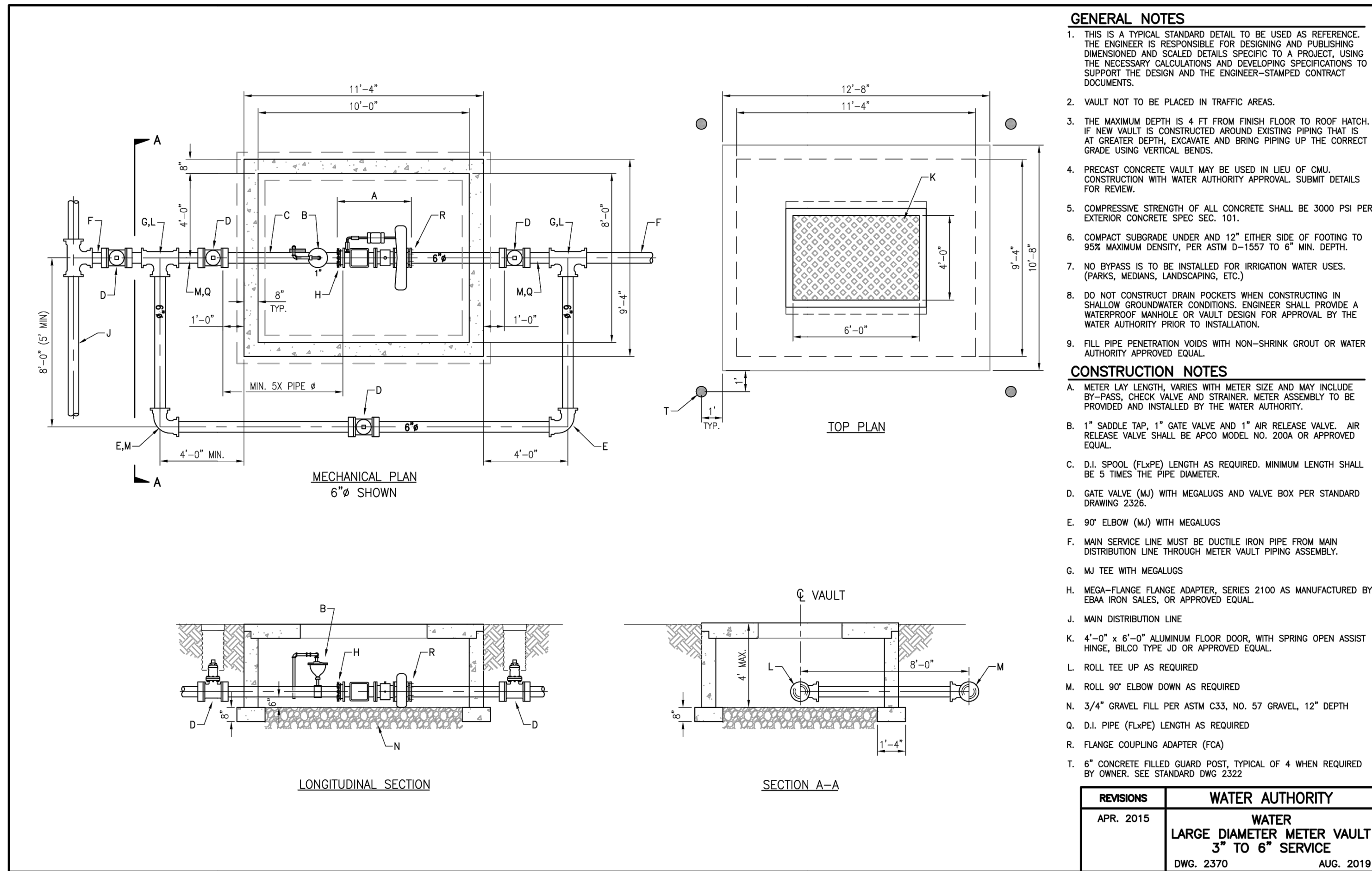
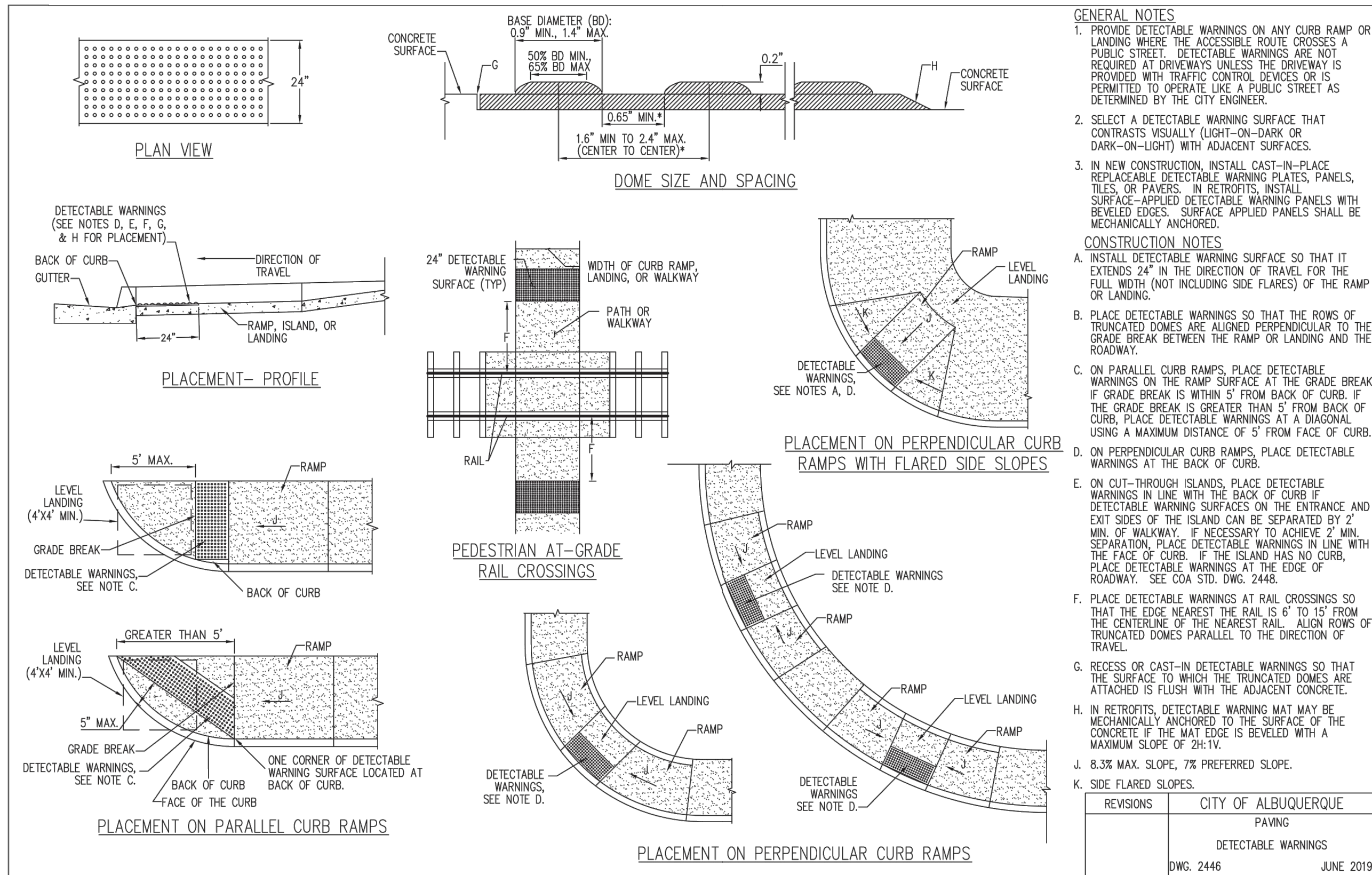
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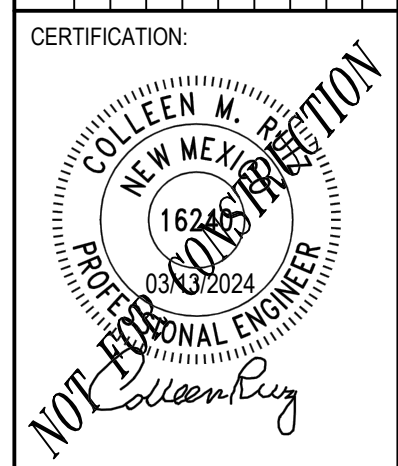








DATE	DESCRIPTION	ISSUE NO.
01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	CRB SUBMITTAL	1
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04/24/2024	CRB RESUBMITTAL	3



CERTIFICATION:

PROJECT NO.: 193806697

DWN BY: HKK    CHKD BY: JRA    APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE:

DETAILS

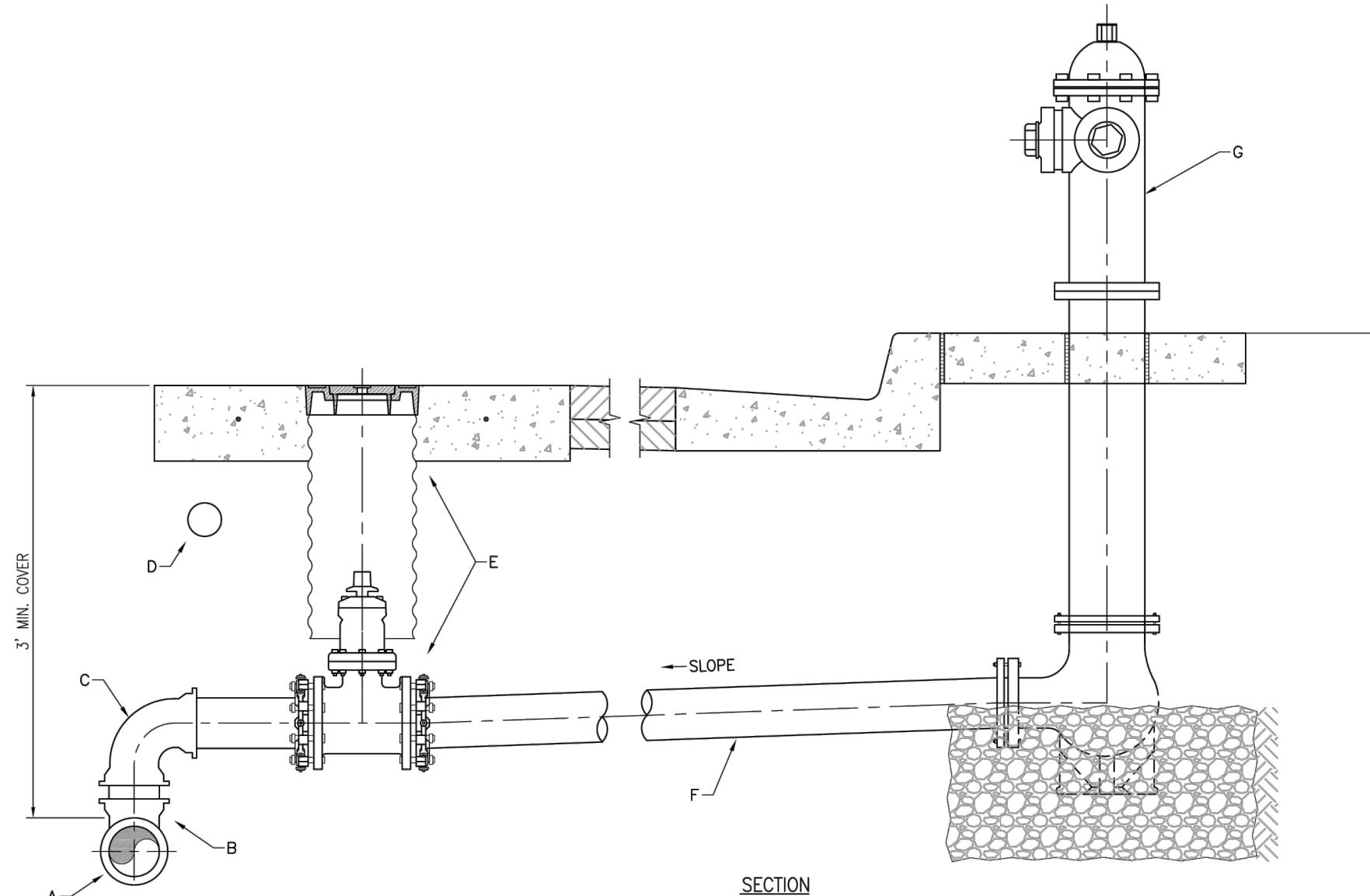


**GENERAL NOTES**

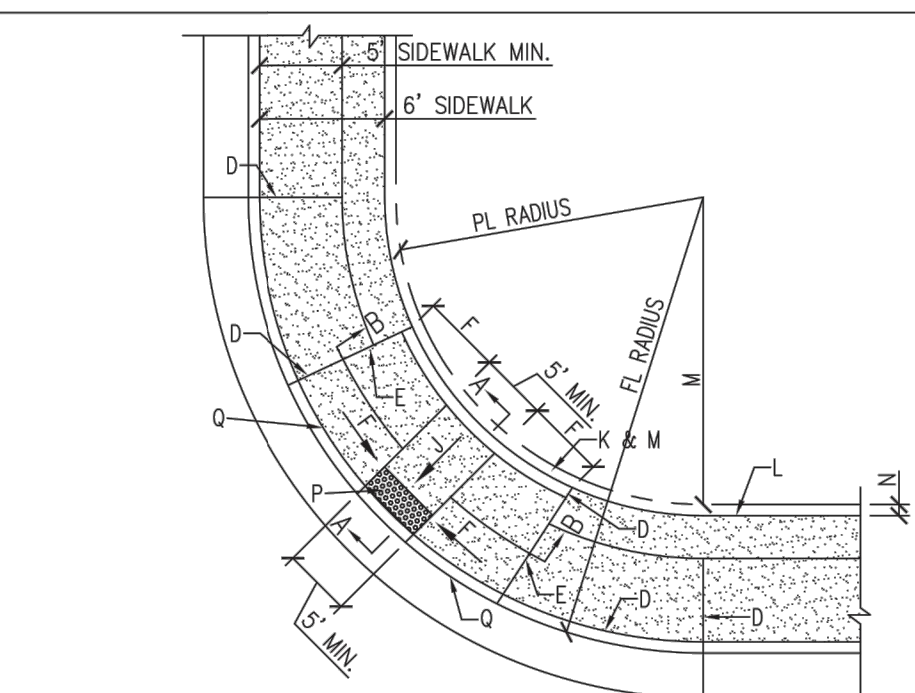
1. INSTALL AIR RELEASE HYDRANT AS REQUIRED BY ENGINEERS DESIGN PLANS.
2. REFER TO STANDARD DRAWING 2340 FOR COMPLETE FIRE HYDRANT INSTALLATION DETAILS.
3. USE OF RESTRAINED JOINTS IS MANDATORY. ALL FIRE HYDRANT LEG PIPING AND FITTINGS INCLUDING TEE ON MAIN SHALL BE RESTRAINED JOINT.

**CONSTRUCTION NOTES**

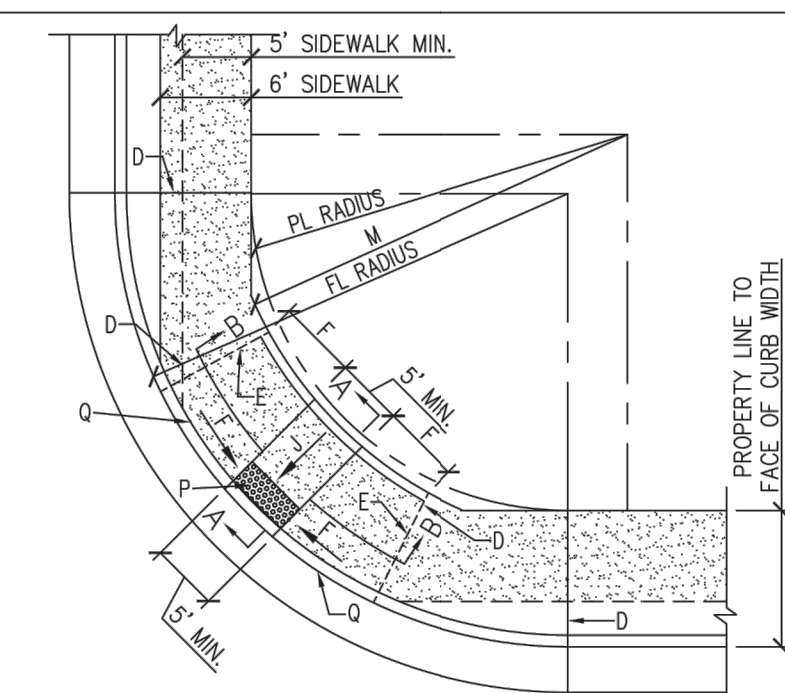
- A. WATER MAIN
- B. FLANGED OUTLET OR MECHANICAL JOINT TEE
- C. DUCTILE IRON 45 DEG. OR 90 DEG. BEND
- D. ELECTRONIC MARKER DEVICE (EMD), SEE STANDARD SPECIFICATION SECTION 170.
- E. GATE VALVE WITH VALVE BOX PER STANDARD DRAWING 2326
- F. SLOPE WATER LINE UP TO AIR RELEASE/HYDRANT
- G. FIRE HYDRANT PER STANDARD DRAWING 2340



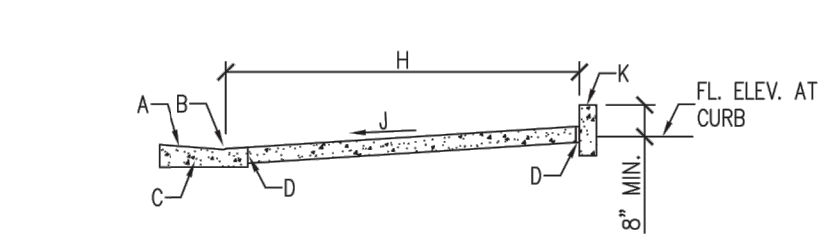
REVISIONS	WATER AUTHORITY
JAN. 2011	WATER AIR RELEASE FIRE HYDRANT INSTALLATION
	DWG. 2344 APR. 2019



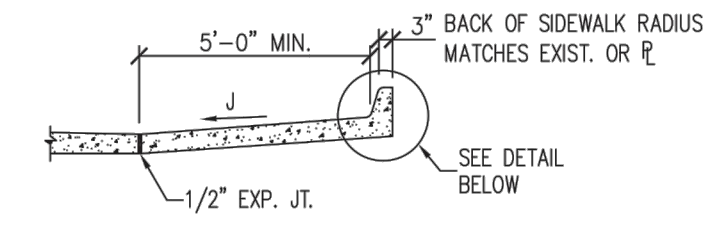
DETAIL A MINIMAL R.O.W. FOR SIDEWALK AT BACK OF CURB PERPENDICULAR RAMP



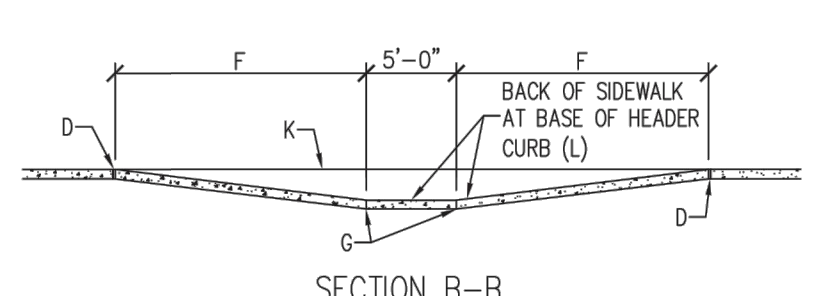
DETAIL B ADEQUATE R.O.W. FOR SETBACK SIDEWALK ADJACENT TO PERPENDICULAR RAMP



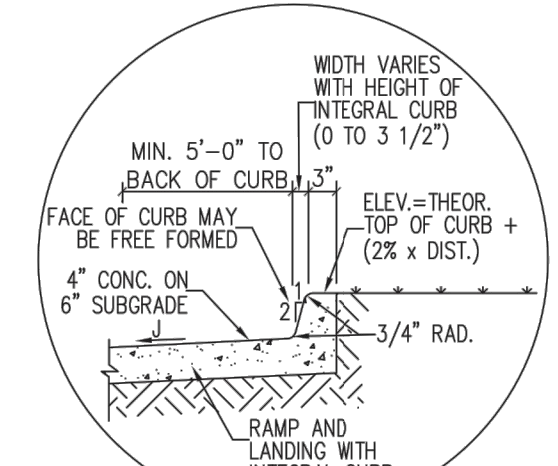
SECTION A-A



ALTERNATE SECTION A-A



SECTION B-B



**GENERAL NOTES**

1. CURB ACCESS RAMPS ARE NORMALLY TO BE LOCATED AT THE CENTER OF THE RETURN OR AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
2. WHEN MODIFYING ONE QUADRANT OF AN INTERSECTION TO IMPROVE ACCESSIBILITY, MODIFY THE REMAINING QUADRANTS SO THAT ALL QUADRANTS OF THE INTERSECTION COMPLY WITH ADA (PROWAG) REGULATIONS AS SHOWN ON PLANS.
3. SURFACE TEXTURE OF CURB ACCESS RAMPS SHALL BE OBTAINED BY HEAVY BROOMING (TEXTURE DEPTH .0625"), TRANSVERSE TO THE SLOPE OF THE RAMP.
4. GUTTER FLOW-LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. DRAINAGE CATCH BASIN STRUCTURES SHALL NOT BE PLACED IN LINE WITH RAMPS.
5. WIDTH OF SIDEWALK AND RAMP MUST BE MAINTAINED AT A MINIMUM OF 5'-0" THROUGH ENTIRE RAMP LENGTH.

**CONSTRUCTION NOTES**

- A. SLOPE OF GUTTER NOT TO EXCEED 2% ADJACENT TO RAMP. 1.5% PREFERRED.
- B. FLUSH WITH RAMP AND GUTTER.
- C. CURB AND GUTTER (SEE STD. DWG. 2415 - GUTTER AT CURB ACCESS RAMP).
- D. 1/2" EXPANSION JOINT.
- E. RADIAL LINES - TOP AND BOTTOM OF RAMP.
- F. 8.3% MAX. SLOPE OF RAMP, 7% PREFERABLE SLOPE OF RAMP.
- G. CONTRACTION JOINT.
- H. VARIES WITH AVAILABLE R.O.W.
- J. 2% MAXIMUM CROSS-SLOPE. 1.5% PREFERRED CROSS-SLOPE.
- K. HEADER CURB, SEE DWG. 2415C.
- L. BACK OF SIDEWALK.
- M. BACK OF SIDEWALK RADIUS TO BE ESTABLISHED SO AS TO MAINTAIN A 5'-0" RAMP WIDTH (MINIMUM) THROUGHOUT. SEE STD. DWG. 2440 (NOTE 6) IF LESS THAN 5'-0" IS AVAILABLE DUE TO UNRESOLVABLE CONSTRAINTS.
- N. 4-1/2" MAX.
- P. DETECTABLE WARNINGS (SEE STD. DWG. 2446).
- Q. CURB TO MATCH SLOPE OF SIDEWALK.

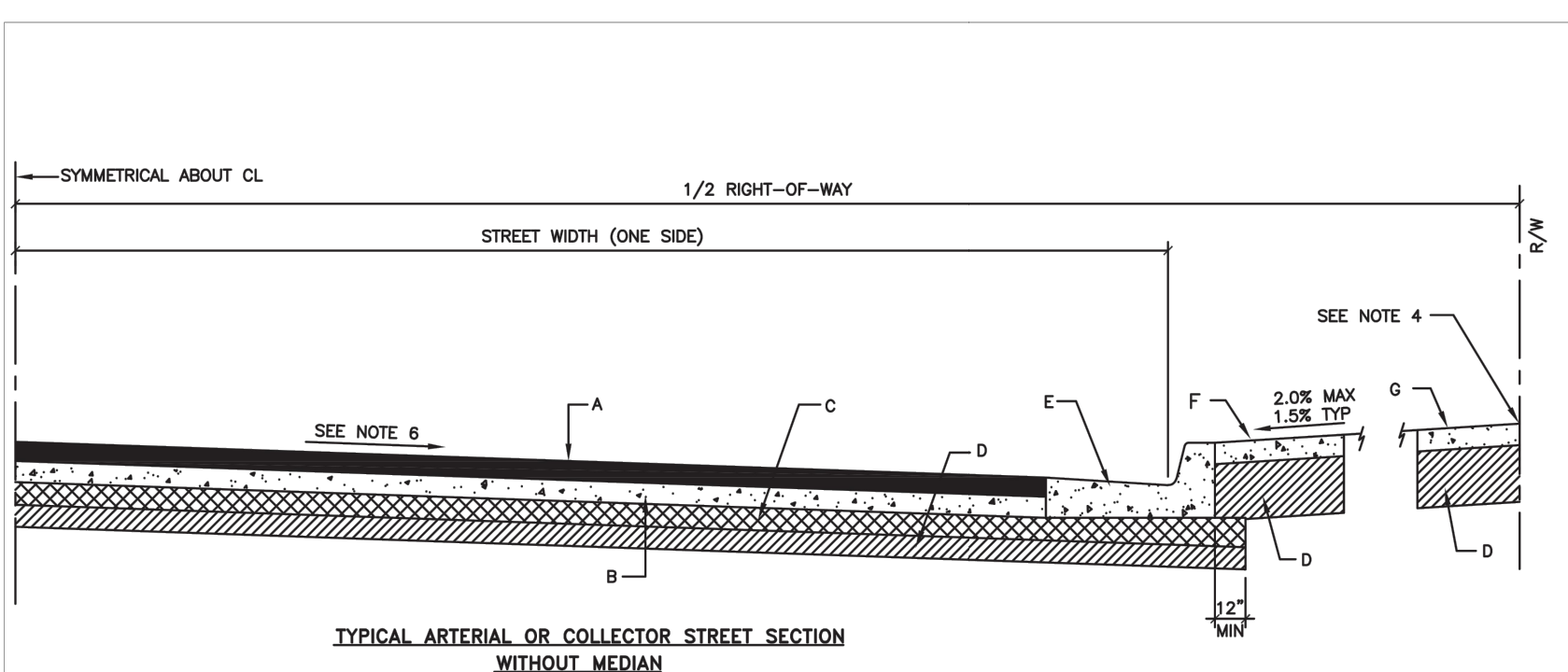
REVISIONS	CITY OF ALBUQUERQUE
	PAVING CORNER ACCESS RAMP
	DWG. 2441 JUNE 2019



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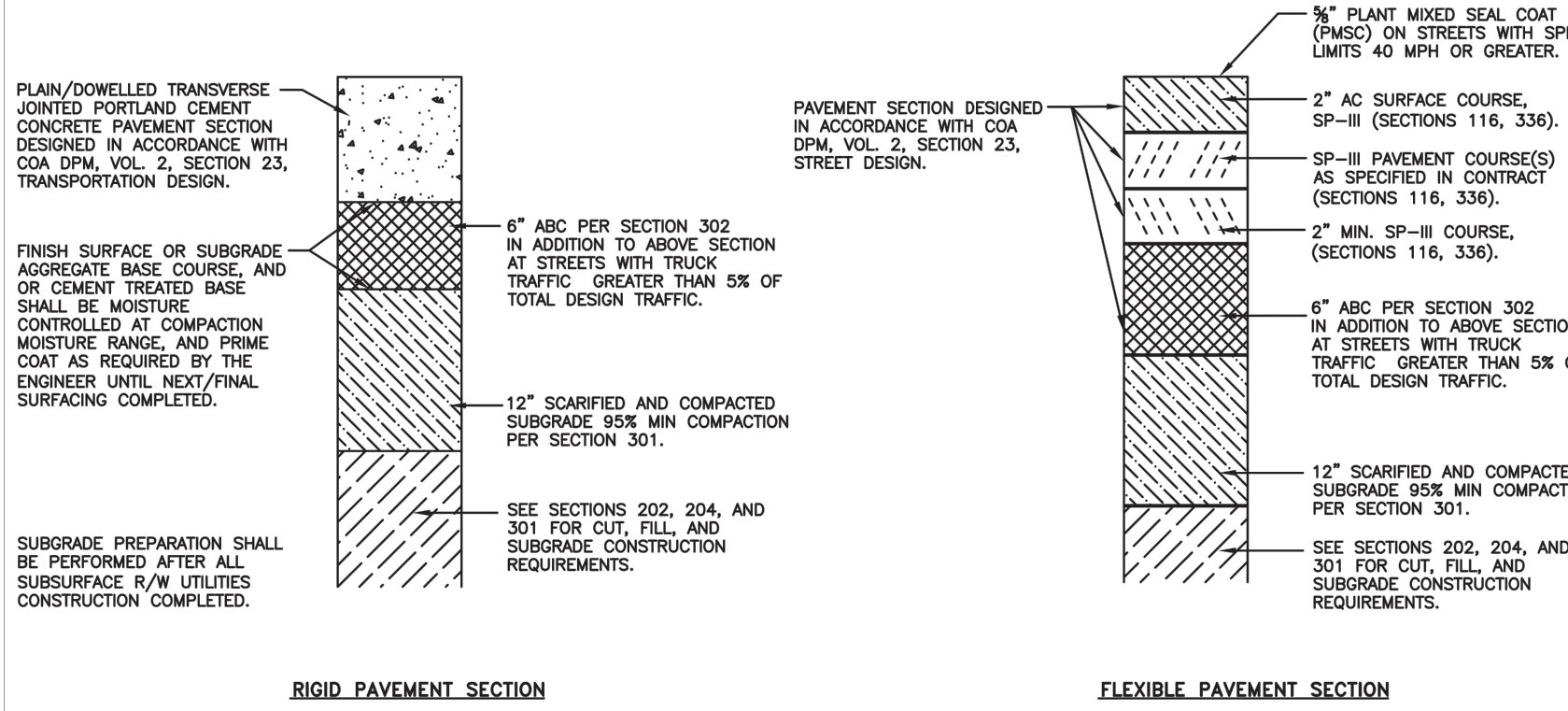
TYPICAL ARTERIAL OR COLLECTOR STREET SECTION WITHOUT MEDIAN

**GENERAL NOTES:**

1. STRUCTURAL THICKNESS OR PAVEMENT COMPONENTS WILL BE PER PAVEMENT DESIGN.
2. ALL SUBGRADE COMPACTION FOR C & G SHALL EXTEND 12" MIN. ON EITHER SIDE OF C & G OR CURB SECTION, A MINIMUM OF 12" BELOW BOTTOM OF CURB.
3. SUBGRADE PREPARATION UNDER SIDEWALK AND DRIVE PADS SHALL BE INCLUDED WITH THE PARTICULAR ITEM.
4. FINISH GRADE AT PROPERTY LINE SHALL BE BASED ON A MIN 2% SLOPE FROM TOP OF CURB.
5. SLOPE EASEMENT REQUIREMENTS WILL BE SHOWN ON PROJECT CONSTRUCTION PLANS.
6. TRANSVERSE SLOPE FOR PAVEMENT SHALL BE 2% TYPICAL.
7. GRADES AND ELEVATIONS SHALL BE MET BY SURFACE COURSE WITH PLANT MIX SEAL PLACED AS AN OVERLAY.
8. PLANT MIX SEAL SHALL BE PLACED ABOVE THE TOP OF THE GUTTER.
9. ALL PORTLAND CEMENT CONCRETE (ACC) PAVEMENT SHALL COMPLY WITH SECTION 116.
10. ALL PORTLAND CEMENT CONCRETE (PCC) PAVEMENT SHALL COMPLY WITH SECTION 101.

**CONSTRUCTION NOTES:**

- A. ASPHALT CONCRETE SURFACE COURSE.
- B. ASPHALT CONCRETE (AC) PAVEMENT.
- C. 6" AGGREGATE BASE COURSE (ABC), IF REQUIRED.
- D. 12" SUBGRADE PREP, 95% COMPACTION.
- E. 8" STANDARD CURB AND GUTTER.
- F. SIDEWALK ADJACENT TO CURB (NON-STANDARD, VARIANCE REQUIRED).
- G. SIDEWALK AT STANDARD SETBACK.



RIGID PAVEMENT SECTION

FLEXIBLE PAVEMENT SECTION

REVISIONS	CITY OF ALBUQUERQUE
06/2019	PAVING ART./COLL. ST. SECTIONS WITHOUT MEDIAN
	DWG. 2407 JUNE 2019

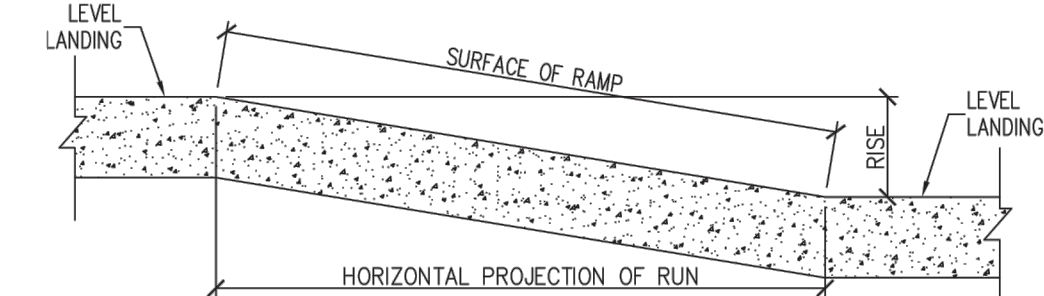
**GENERAL NOTES:**

1. CURB ACCESS RAMPS COMPLYING WITH ADA REGULATIONS AND DRAWINGS 2415, 2418, 2425, AND 2440 THROUGH 2448) SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB. THE CITY TRAFFIC ENGINEER WILL SPECIFY LOCATION OF RAMPS.
2. MIN. CURB RADIUS IS 25 FT. UNLESS OTHERWISE SPECIFIED.
3. SLOPE SIDEWALK FROM TOP OF CURB TO LEVEL LANDING AREA AT BOTTOM OF RAMP ON A MAXIMUM SLOPE OF 8.3% AND A PREFERABLE SLOPE OF 7%.
4. UNIDIRECTIONAL CURB ACCESS RAMPS: SLOPE SIDEWALK FROM P.C. OR P.T. OF CURB RETURN DOWN TO QUARTER POINT OF CURB RETURN USING A SLOPE NO STEEPER THAN THAT DEFINED IN NOTE 4 ABOVE. FOR POSSIBLE EXCEPTIONS, SEE TABLE OF ADA ACCESSIBLE ROUTE SLOPES ON THIS DRAWING.
5. SLOPES OF CURB ACCESS RAMPS SHALL COMPLY WITH ALL ADA (PROWAG) REGULATIONS AND THE TABLE OF ACCESSIBLE ROUTE SLOPES OF THIS DRAWING. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACES OR SIDEWALKS ADJACENT TO CURB ACCESS RAMPS SHALL NOT EXCEED 5%.
6. THE MINIMUM WIDTH OF ANY ACCESSIBLE RAMP SHALL BE 60 IN. (5 FT.). NARROWER SIDEWALKS AND RAMPS SHALL BE APPROVED BY THE CITY ENGINEER.
7. A CURB ACCESS RAMP LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP OR WHERE IT IS NOT PROTECTED BY HAND OR GUARDRAIL SHALL HAVE FLARED SIDES WITH SLOPES NOT EXCEEDING 8.3% WITH A PREFERABLE SLOPE OF 7%.
8. CURB ACCESS RAMPS WITH RETURNS OR HEADER TYPE CURBING MAY BE CONSTRUCTED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. BUILT-UP CURB ACCESS RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICLE TRAFFIC LANES AND MAY ONLY BE USED WITH APPROVAL FROM THE CITY ENGINEER EXCEPT FOR PARKING LOT APPLICATIONS.
9. CURB ACCESS RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
10. CURB ACCESS RAMPS AT MARKED CROSSING SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS EXCLUDING ANY FLARED SIDES. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE AT LEAST 24 INCHES STRAIGHT CURB ON EACH SIDE OF THE CURB RAMP WITHIN THE MARKED CROSSING.
11. ADA - AMERICANS WITH DISABILITIES ACT.
12. PROWAG - PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES.
13. CURB ACCESS RAMPS AND THEIR APPROACHES SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.
14. ANY CONFLICT BETWEEN COA STANDARD DRAWINGS AND ADA (PROWAG) REGULATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER FOR RESOLUTION.
15. ALL ACCESSIBLE RAMPS SHALL HAVE LANDINGS AT BOTTOM AND TOP OF EACH RAMP RUN. LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT AND SHALL HAVE A LENGTH OF 60 INCHES (5 FT.) MINIMUM. IF THE RAMP CHANGES DIRECTION AT THE LANDING, THE MINIMUM LANDING SIZE SHALL BE 5 FEET BY 5 FEET. RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROJECTIONS THAT PREVENTS SLIPPING OR FALLING OFF OF THE RAMP.
16. DETECTABLE WARNINGS SHALL BE INCLUDED ON ALL CURB RAMPS.
17. IF DIAGONAL CURB RAMPS HAVE RETURNED CURBS OR CURBS WITH WELL-DEFINED EDGES, THE EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN TRAVEL.
18. WHEN MODIFYING ONE QUADRANT OF AN INTERSECTION TO IMPROVE ACCESSIBILITY, MODIFY THE REMAINING QUADRANTS SO THAT ALL QUADRANTS OF THE INTERSECTION COMPLY WITH ADA REGULATION AS SHOWN ON CONSTRUCTION PLAN SET.
19. CURBS ADJACENT TO ADA SURFACES SHALL BE PAINTED IN A CONTRASTING COLOR (REFLECTIVE YELLOW).
20. SEEK APPROVAL FROM CITY ENGINEER FOR ANY DEVIATION FROM SLOPE STANDARDS DUE TO SPACE LIMITATIONS.

**ADA ACCESSIBLE ROUTE SLOPES (SEE FIGURE BELOW)**

SLOPE *	% SLOPE	MAX. RISE ** INCHES	MAX. HORIZ. PROJ. FEET	COMMENTS
50H:1V OR FLATTER	2% OR LESS	UNLIMITED	UNLIMITED	TO BE USED FOR CROSS SLOPES ON ANY INTENDED ADA ACCESSIBLE ROUTE AND ANY LEVEL LANDING.
20H:1V OR FLATTER	5% OR LESS	UNLIMITED	UNLIMITED	TO BE USED FOR DIRECTION OF TRAVEL ON ANY INTENDED ADA ACCESSIBLE ROUTE.
12H:1V TO 15H:1V	8.3% TO 7%	30	200 (X SLOPE)	TO BE USED FOR DIRECTION OF TRAVEL ON ANY RAMP SURFACE.

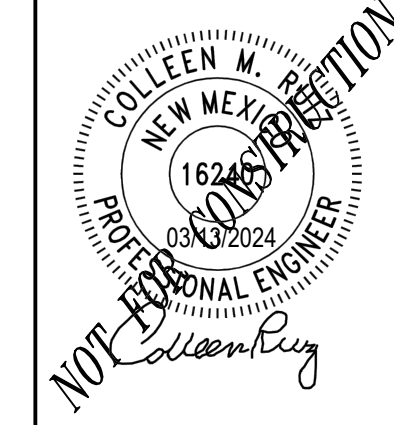
\* SLOPE IS INDICATED IN A RATIO OF HORIZONTAL UNITS TO VERTICAL UNITS OF IDENTICAL MEASURE.  
 \*\* AFTER THE MAXIMUM RISE HAS BEEN ATTAINED, A LEVEL LANDING AREA MUST BE PROVIDED.  
 \*\*\* SEE GENERAL NOTE NO. 8.  
 NOTE: ADA DEFINES "RAMP" AS ANY SURFACE THAT EQUALS OR EXCEEDS A 5% SLOPE ALONG ITS PATH OF TRAVEL. A LEVEL LANDING AREA IS A SURFACE OF SUFFICIENT SIZE THAT DOES NOT EXCEED A 2% SLOPE IN ANY DIRECTION.



REVISIONS	CITY OF ALBUQUERQUE
	PAVING CURB ACCESS RAMP GENERAL NOTES
	DWG. 2440 JUNE 2019

DATE	DESCRIPTION	ISSUE NO.
01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	DRB SUBMITTAL	1
03/20/2024	BID SET	2
04/24/2024	DRB RESUBMITTAL	3

**CERTIFICATION:**



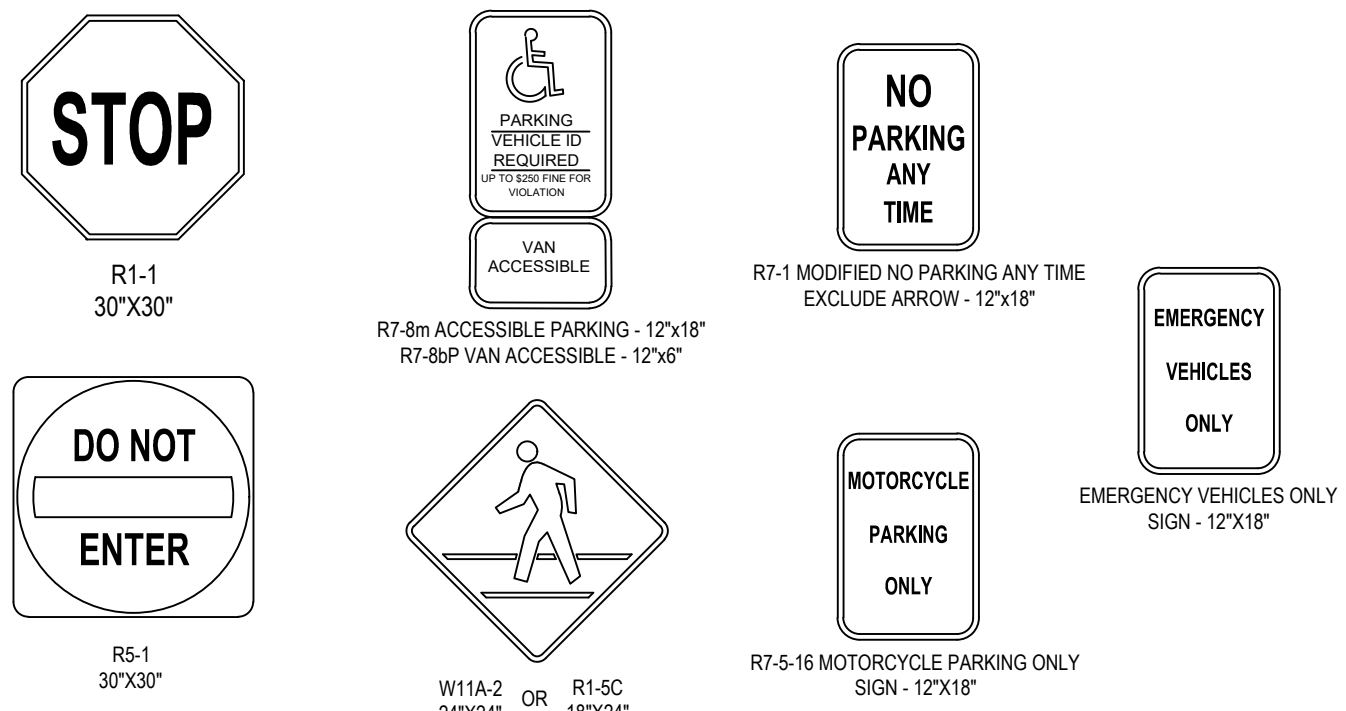
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DWN BY:	HKK
CHKD BY:	JRA
APPD BY:	CMR
ISSUE DATE:	04/24/2024
ISSUE NO.:	3

SHEET TITLE:  
DETAILS

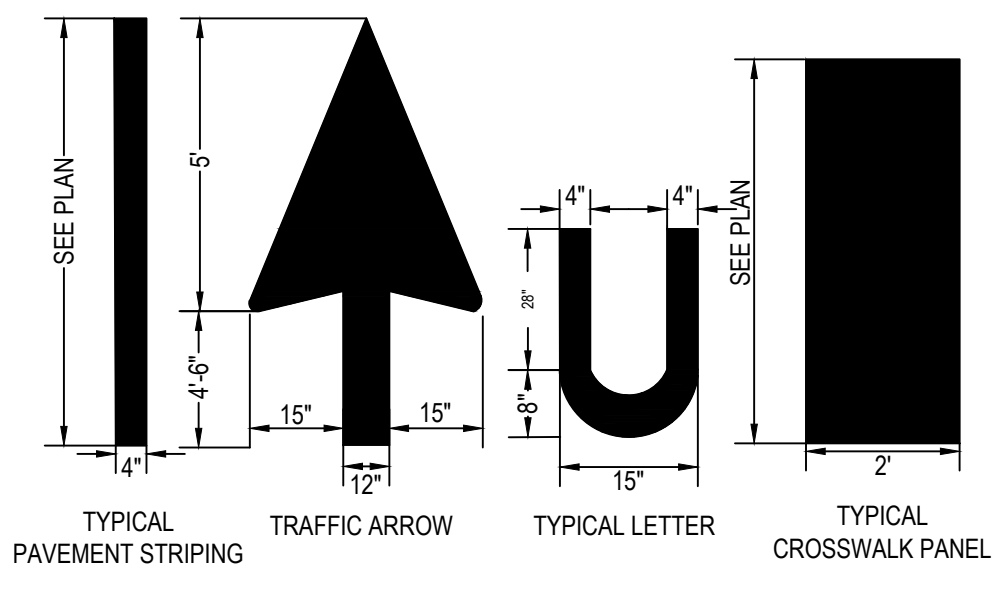
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C-802



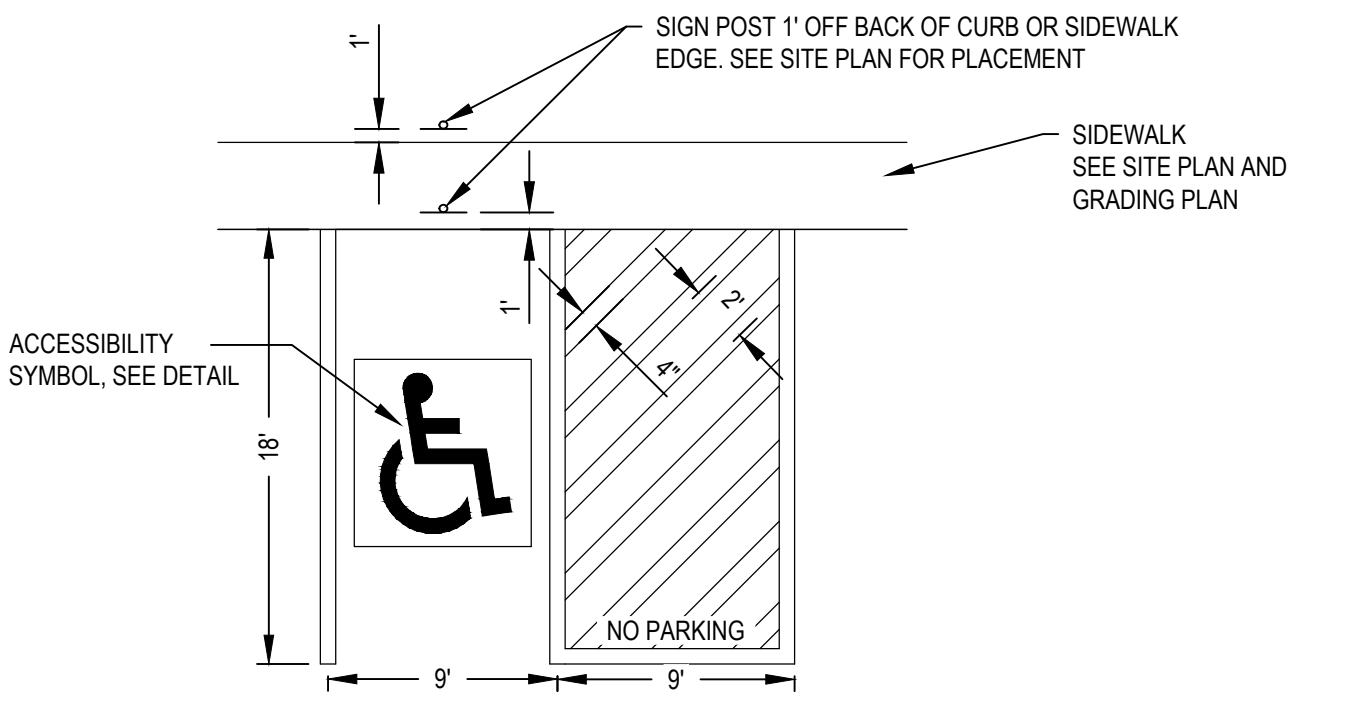


**1 STANDARD PARKING LOT SIGNS**  
C-803 NOT TO SCALE

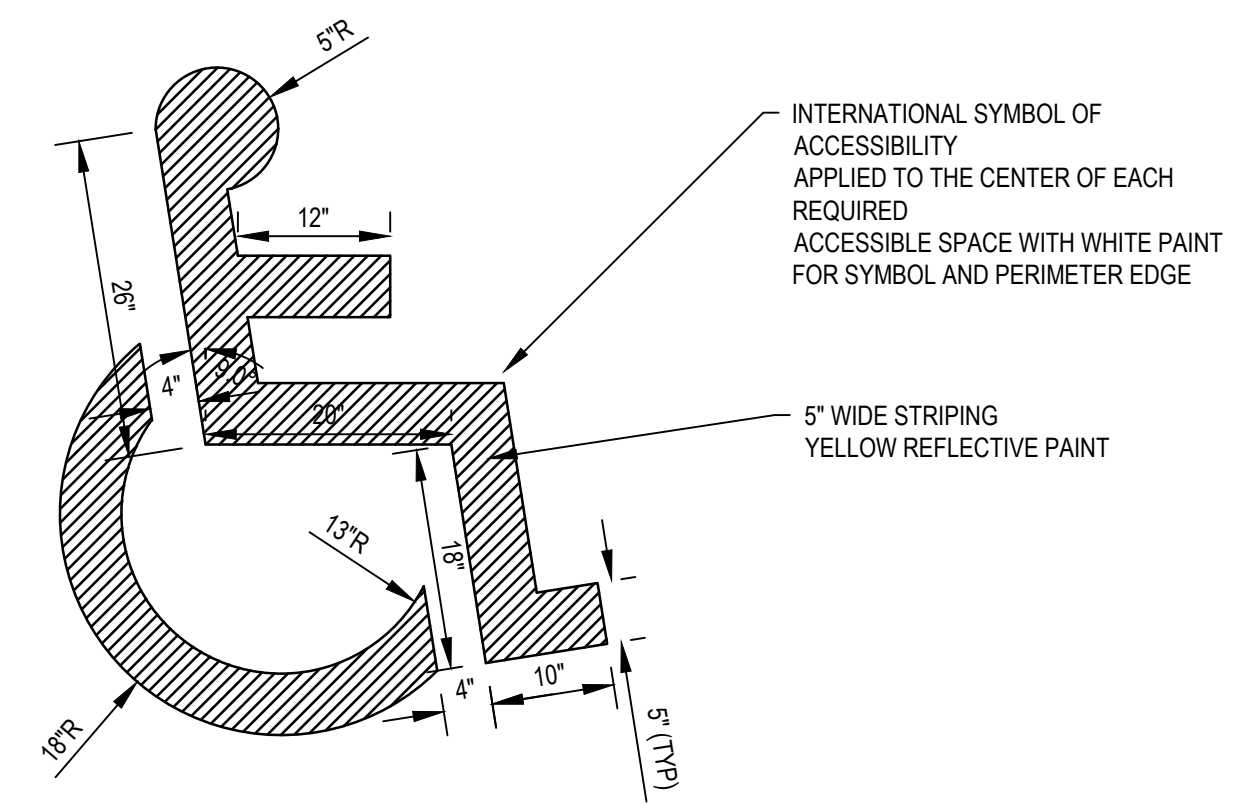


**2 TYPICAL PAVEMENT MARKINGS**  
C-803 NOT TO SCALE

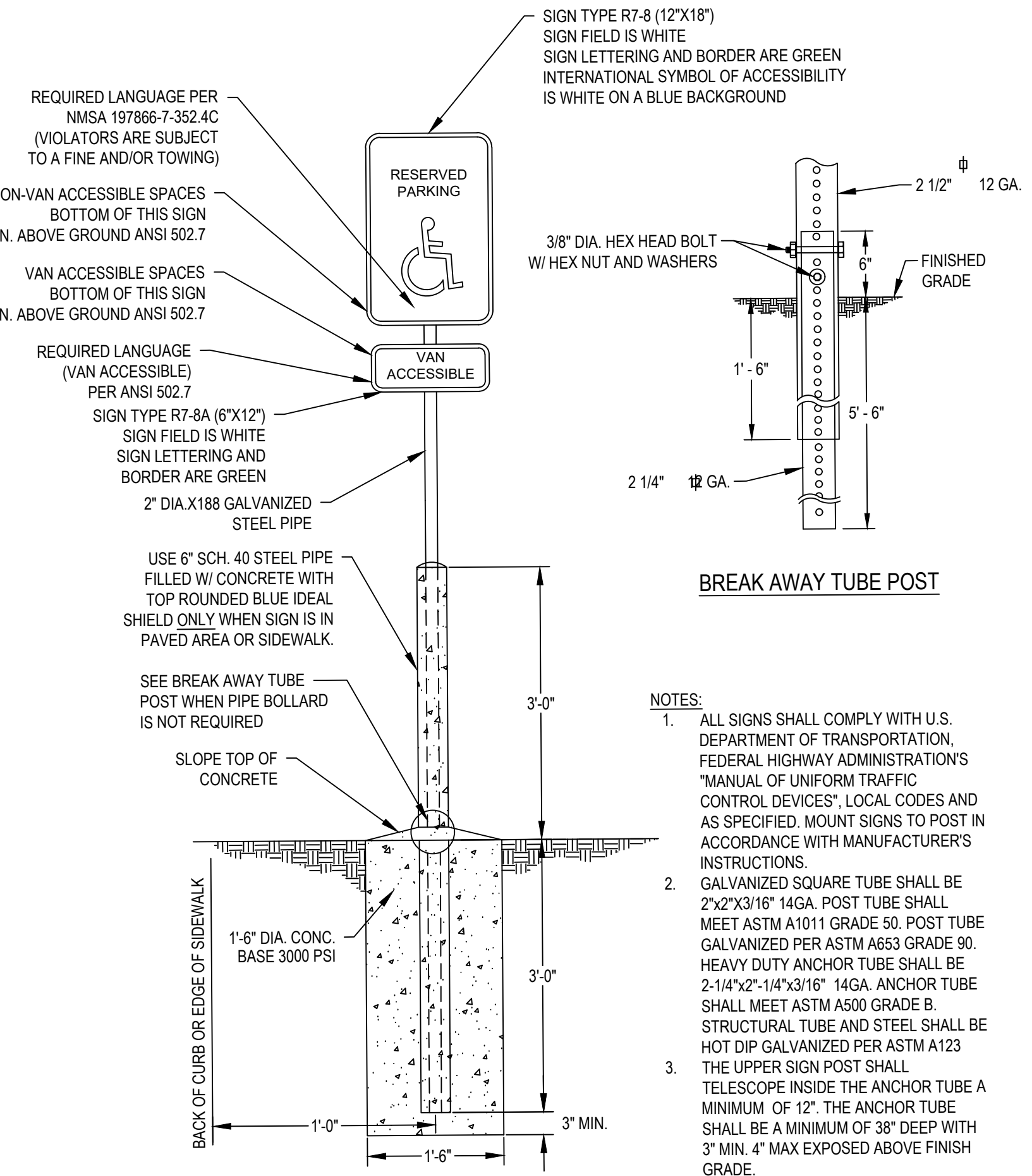
**2 TYPICAL PAVEMENT MARKINGS**  
C-803 NOT TO SCALE



**3 BOLLARD**  
C-803 NOT TO SCALE



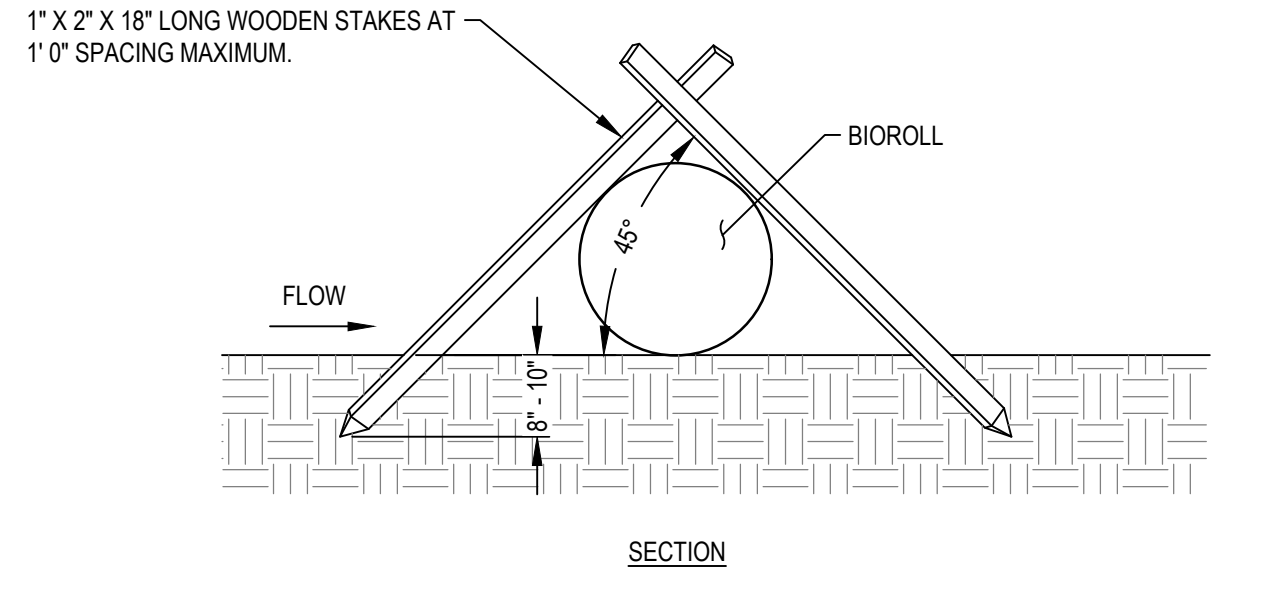
**4 ACCESSIBILITY SYMBOL**  
C-803 NOT TO SCALE



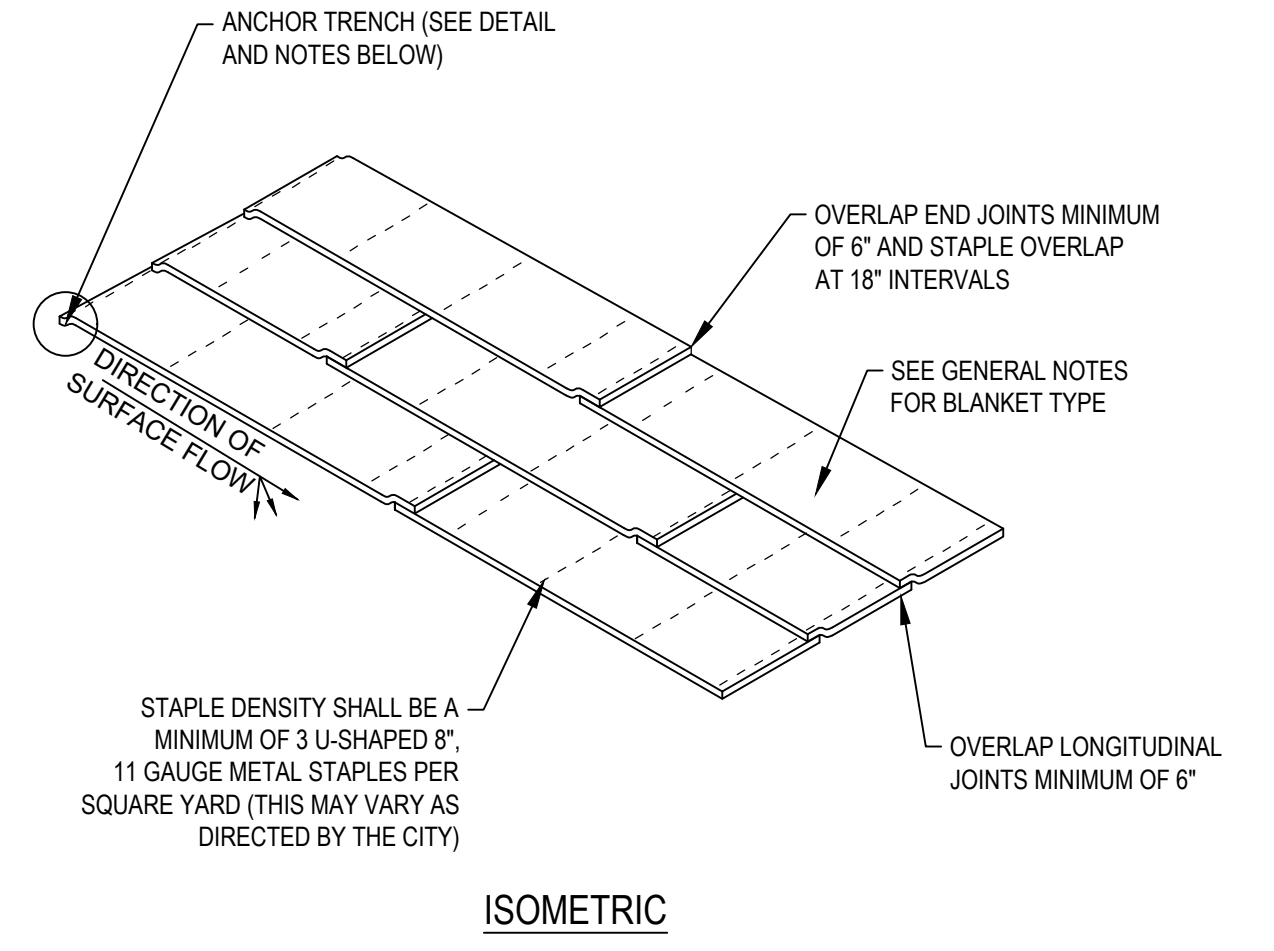
**5 SIGN POST**  
C-803 NOT TO SCALE

NOTES:  
1. PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND 15 DRY MILS.  
2. PAINT SHALL BE NON-REFLECTIVE WHITE PAINT FOR ALL TYPICAL PAVEMENT MARKINGS

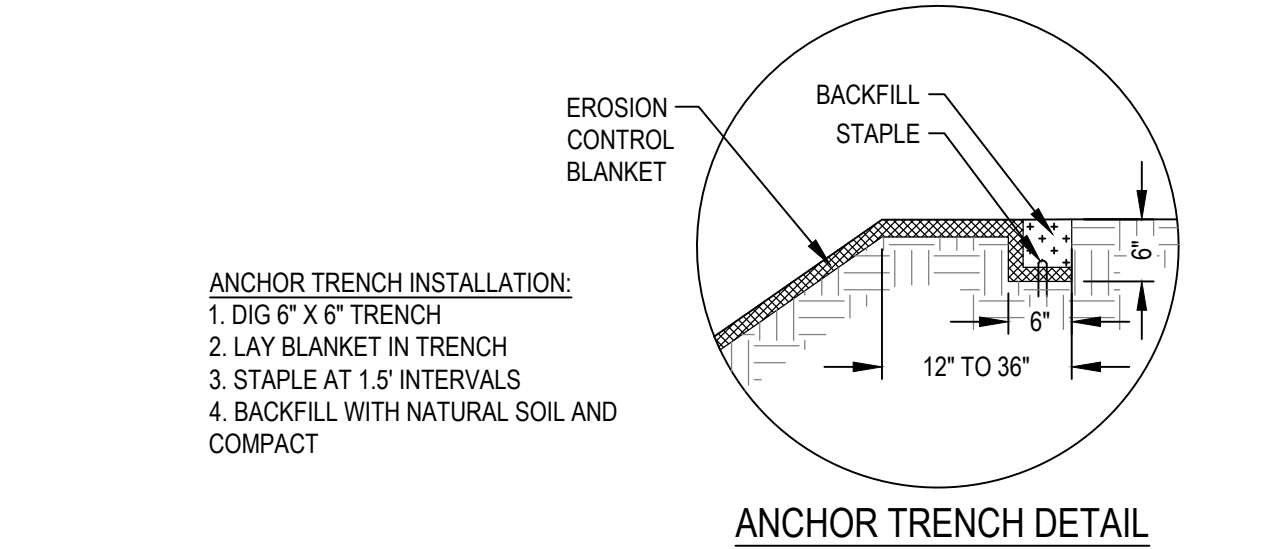
**6 ACCESSIBILITY STRIPING**  
C-803 NOT TO SCALE



**7 MULCH SOCK**  
C-803 NOT TO SCALE



**8 SOIL RETENTION BLANKET INSTALLATION**  
C-803 NOT TO SCALE



**9 STABILIZED ROCK CONSTRUCTION EXIT**  
C-803 NOT TO SCALE

NOTES:  
1. FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH ROCK.  
2. ENTRANCE MUST BE MAINTAINED TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS.  
3. FUGITIVE ROCKS SHALL BE REMOVED FROM ADJACENT ROADWAYS DAILY OR MORE FREQUENTLY AS NECESSARY.

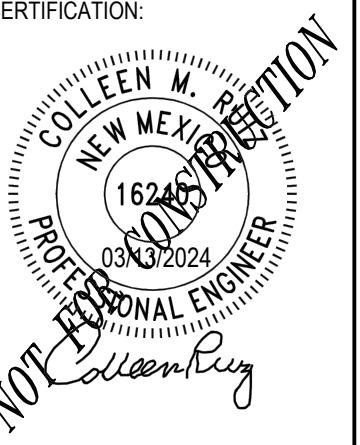


733 MARQUETTE AVE  
SUITE 1000  
MINNEAPOLIS, MN 55402  
WWW.STANTEC.COM



**ALBUQUERQUE 10 MW  
DATA CENTER**  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER
03/08/2024	PRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	CRB RESUBMITTAL	3	

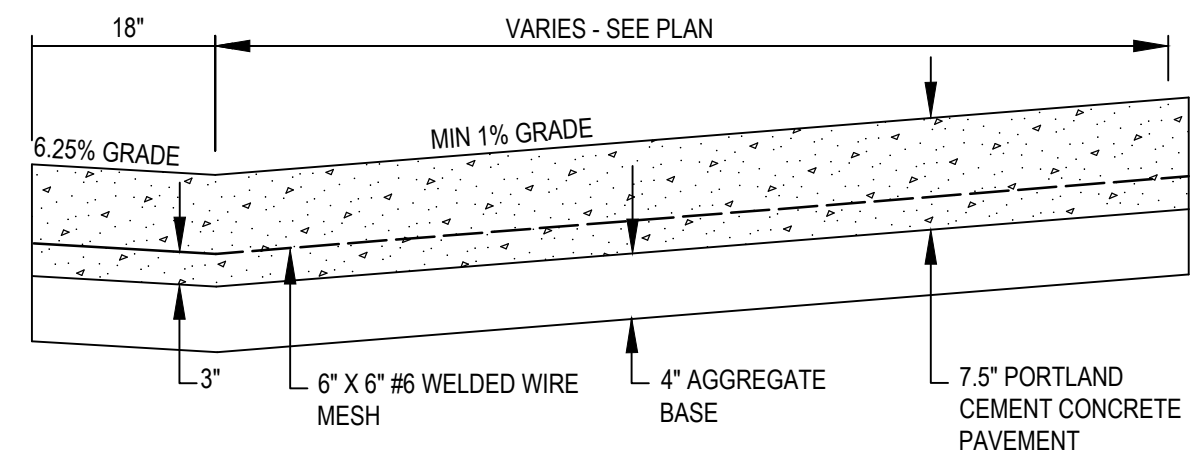


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DWN BY: HKK  
CHKD BY: JRA  
APPD BY: CMR  
ISSUE DATE: 04/24/2024  
ISSUE NO.: 3

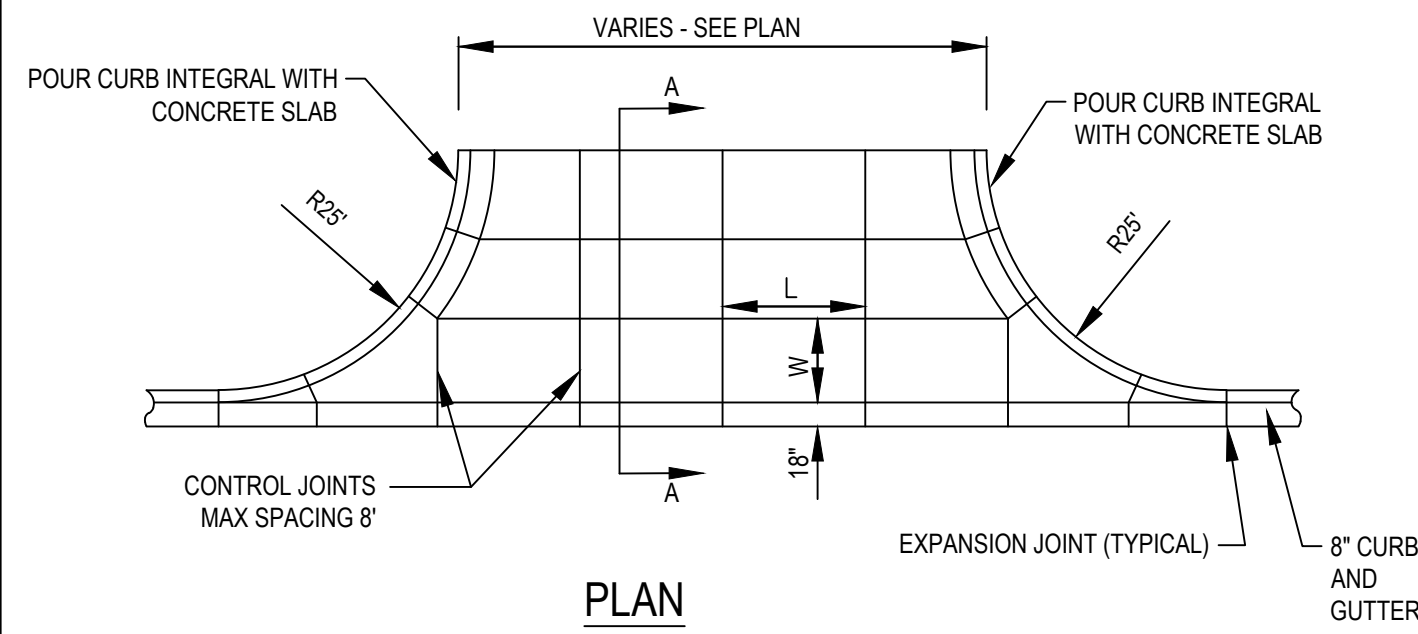
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DETAILS

SHEET NO.:  
C-803





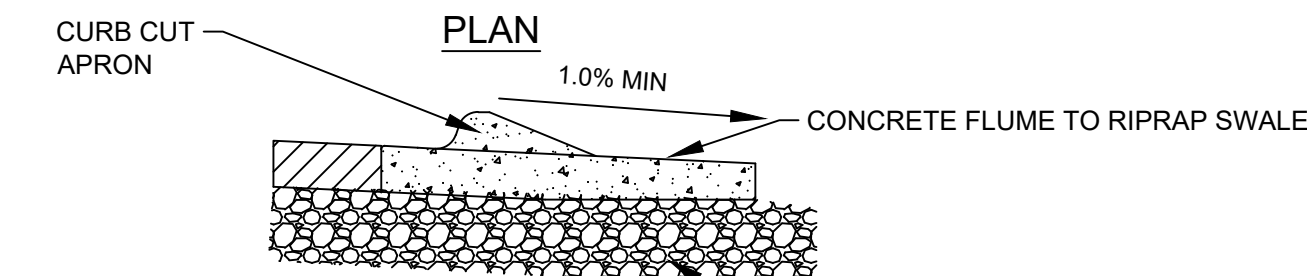
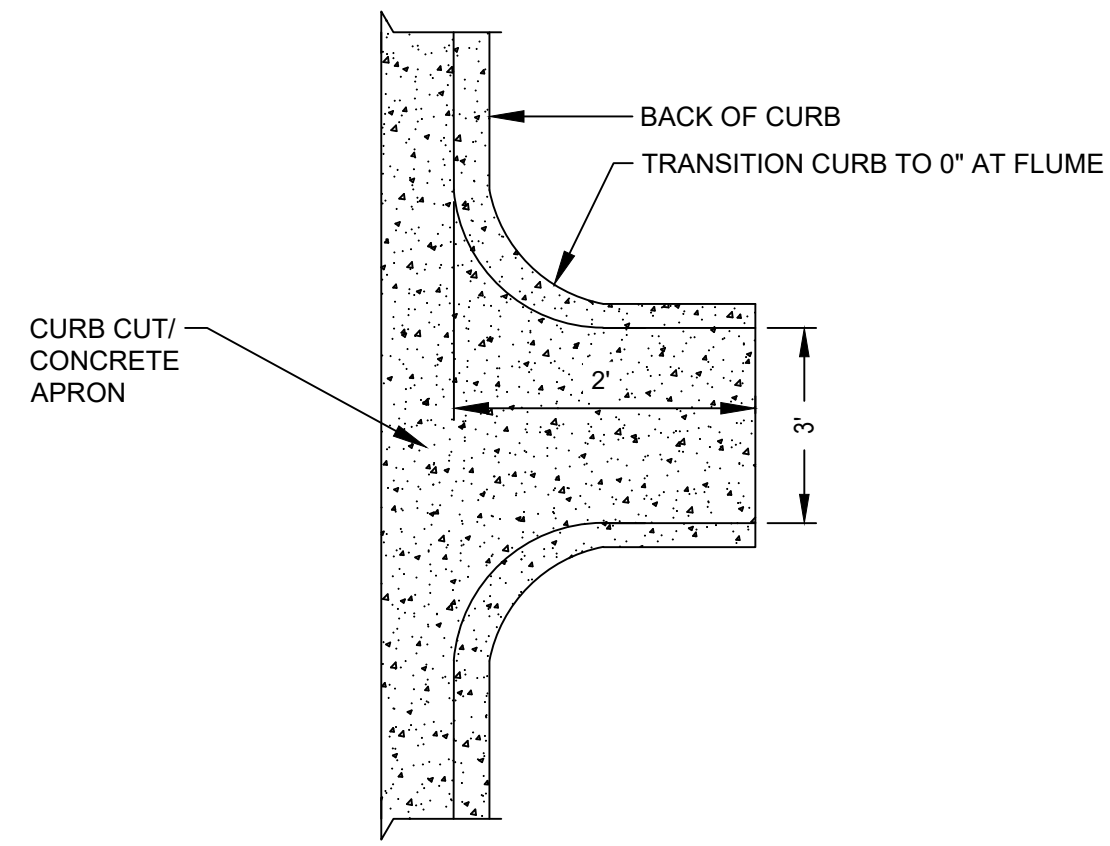
SECTION A-A  
NO SCALE



PLAN  
NO SCALE

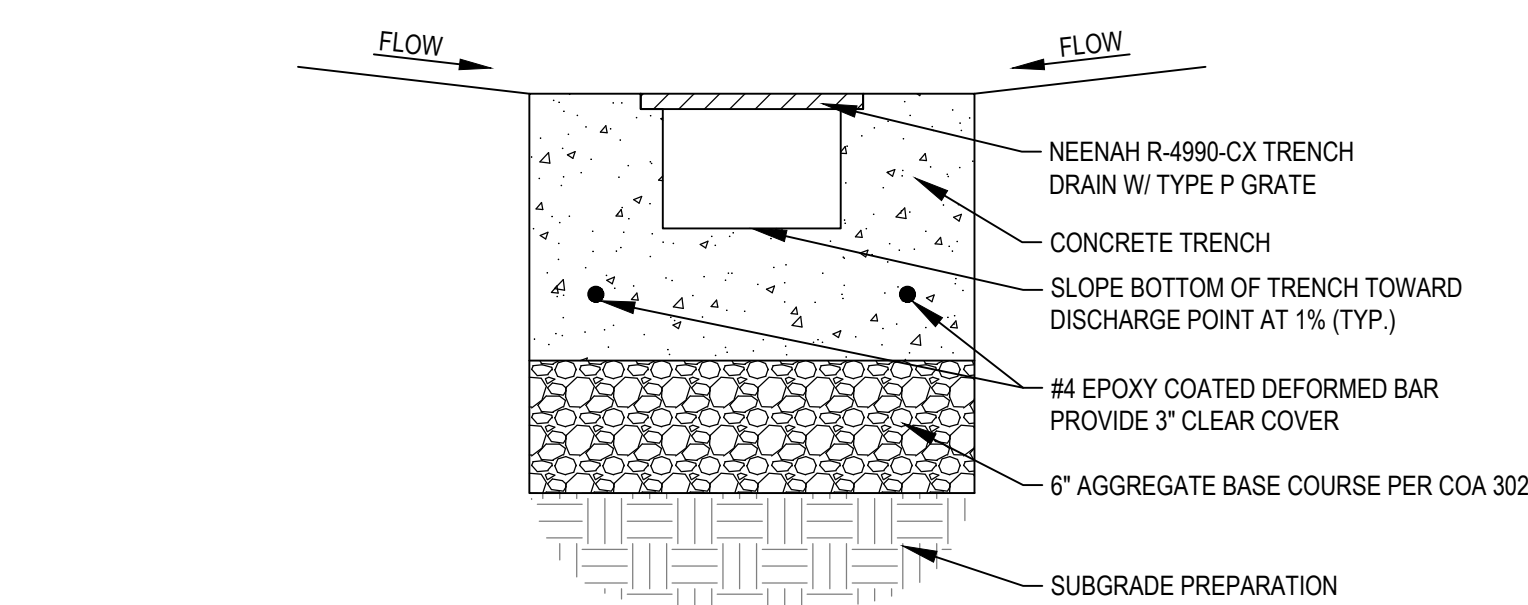
- NOTES:
- CONTROL JOINT SPACING SHALL BE A MAXIMUM OF 12 FEET. ASPECT RATIO BETWEEN L AND W SHALL NOT EXCEED 1.5:1.

1 CONCRETE DRIVEWAY APRON  
C-804 NOT TO SCALE

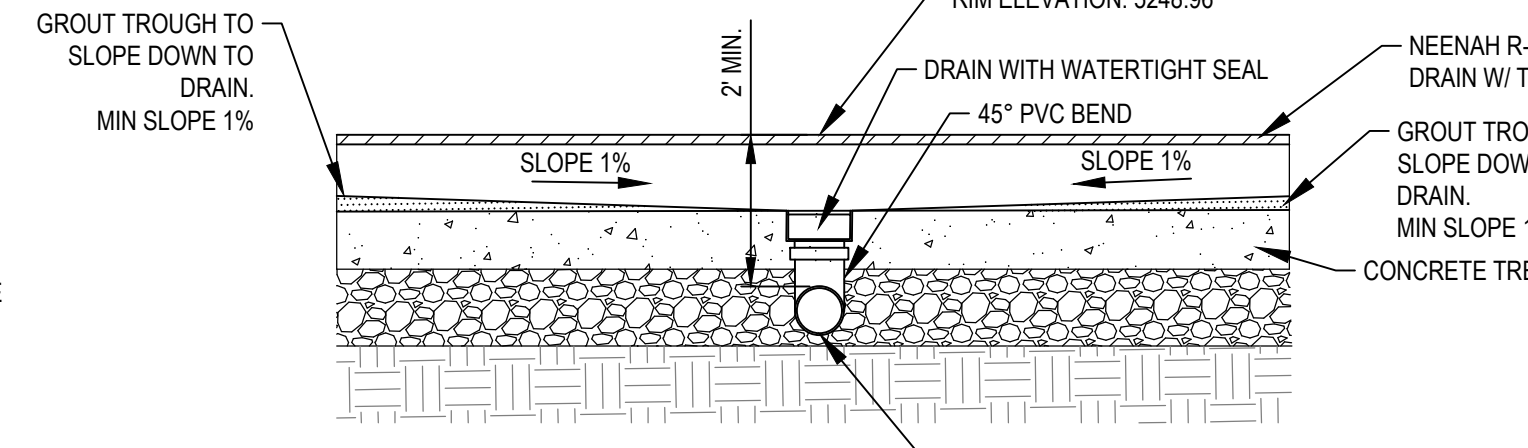


SECTION

2 CONCRETE CURB CUT  
C-804 NOT TO SCALE



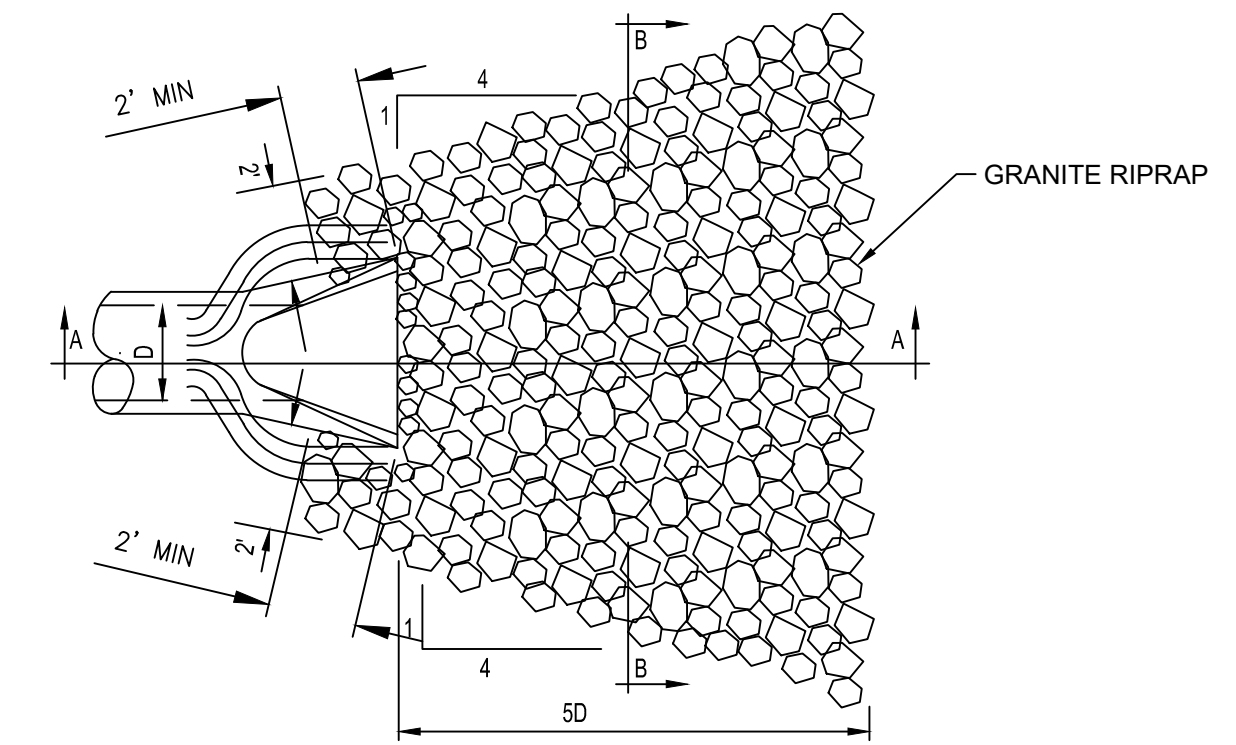
SECTION



PROFILE

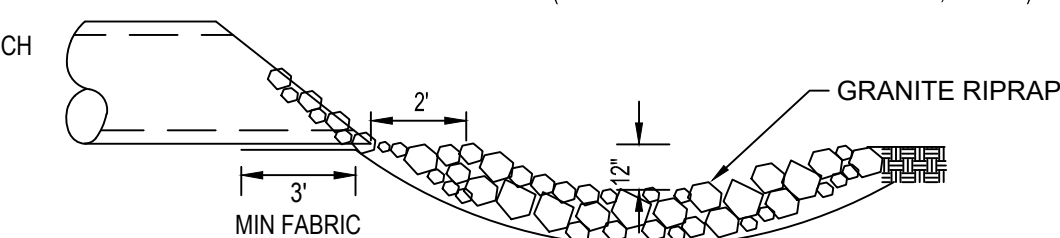
- NOTE:
- SEE PLAN FOR STORM PIPE DISCHARGE INVERT. PROVIDE WATERTIGHT SEAL. PROVIDE VERTICAL BEND AND RISER AS NEEDED FROM STORM INVERT TO TRENCH DRAIN INVERT.

3 CONCRETE TRENCH DRAIN  
C-804 NOT TO SCALE



PLAN

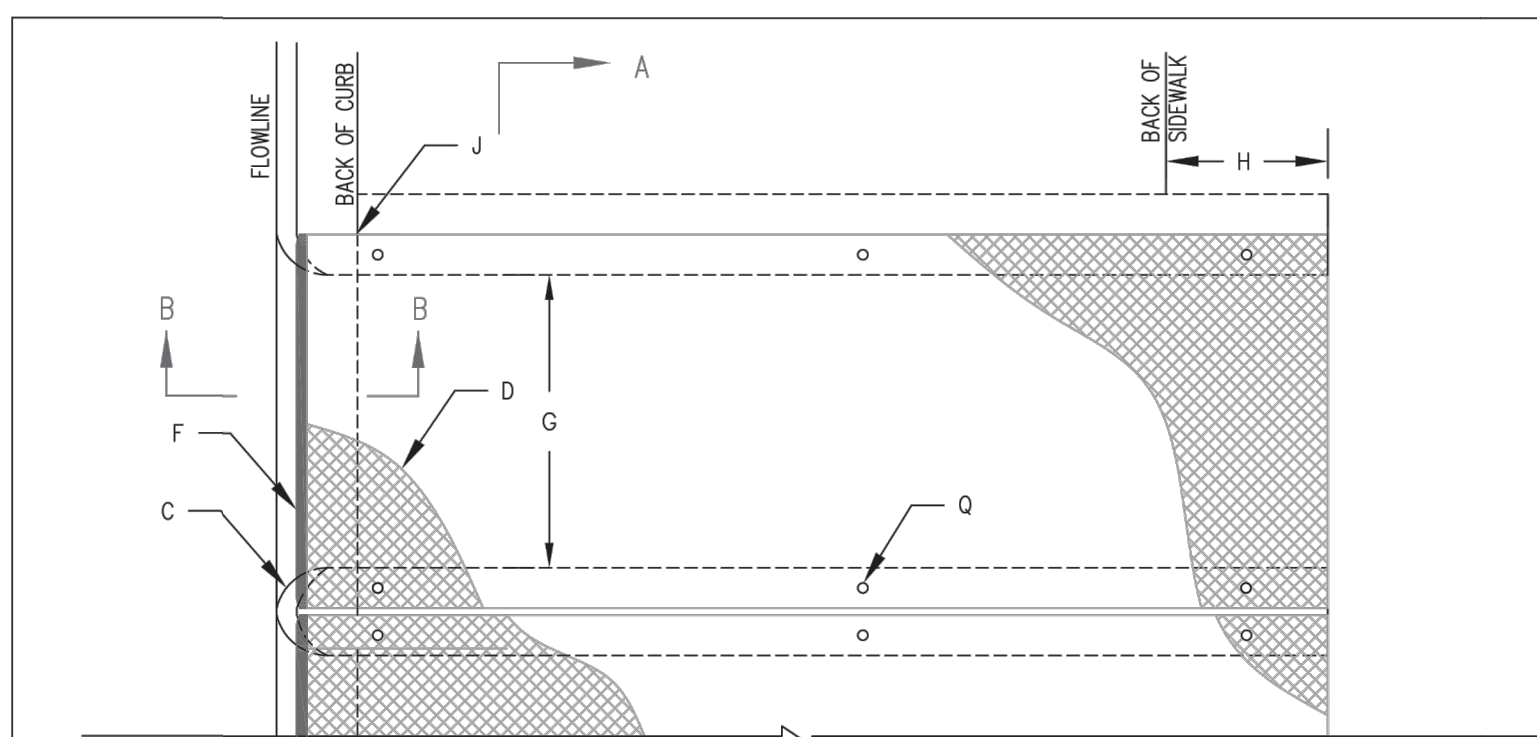
GRANITE RIPRAP  
RIPRAP REQUIREMENTS PER COA SPEC 109  
12" TO 18" 8-10 CUBIC YARDS TYPE M  
21" TO 27" 12-14 CUBIC YARDS TYPE M  
30" TO 36" 16-24 CUBIC YARDS TYPE M  
42" TO 48" 30-38 CUBIC YARDS TYPE M  
54" AND UP 62&UP CUBIC YARDS TYPE H  
(ONE CUBIC YARD IS APPROXIMATELY 2,800 LBS.)



SECTION A-A

- NOTES:
- FILTER BLANKET REQUIRED UNDER RIPRAP OR 2 LAYERS OF 500X MIRAFI FABRIC OR EQUAL.
  - ONLY GRANITE RIPRAP TO BE USED AT OUTLETS.
  - GRADE A SWALE ADJACENT TO BOTH SIDES OF PIPE TO DIRECT WATER AWAY FROM FES.

4 RIPRAP AT OUTLETS  
C-804 NOT TO SCALE



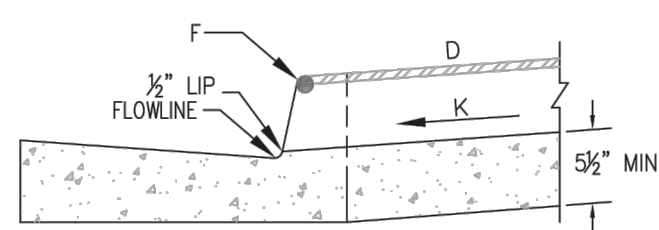
PLAN  
SINGLE OR MULTIPLE CULVERT

GENERAL NOTES

- PLACING OF DRAIN THRU EXISTING SIDEWALK AND CURB & GUTTER REQUIRES THAT THE ENTIRE SIDEWALK AND CURB AND GUTTER STONES BE REMOVED AND REPLACED AS DETAILED HEREIN.
- THE CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
- THE INVERT SHALL BE TROWELED TO PRODUCE A HARD POLISHED SURFACE OF MAXIMUM DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED PARALLEL TO FLOWLINE AT THE OUTLET, UNLESS OTHERWISE SHOWN.
- LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. CLEAN SURFACE OF PLATE AND PAINT WITH ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
- THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
- CULVERT MUST BE PERPENDICULAR TO THE CURB.

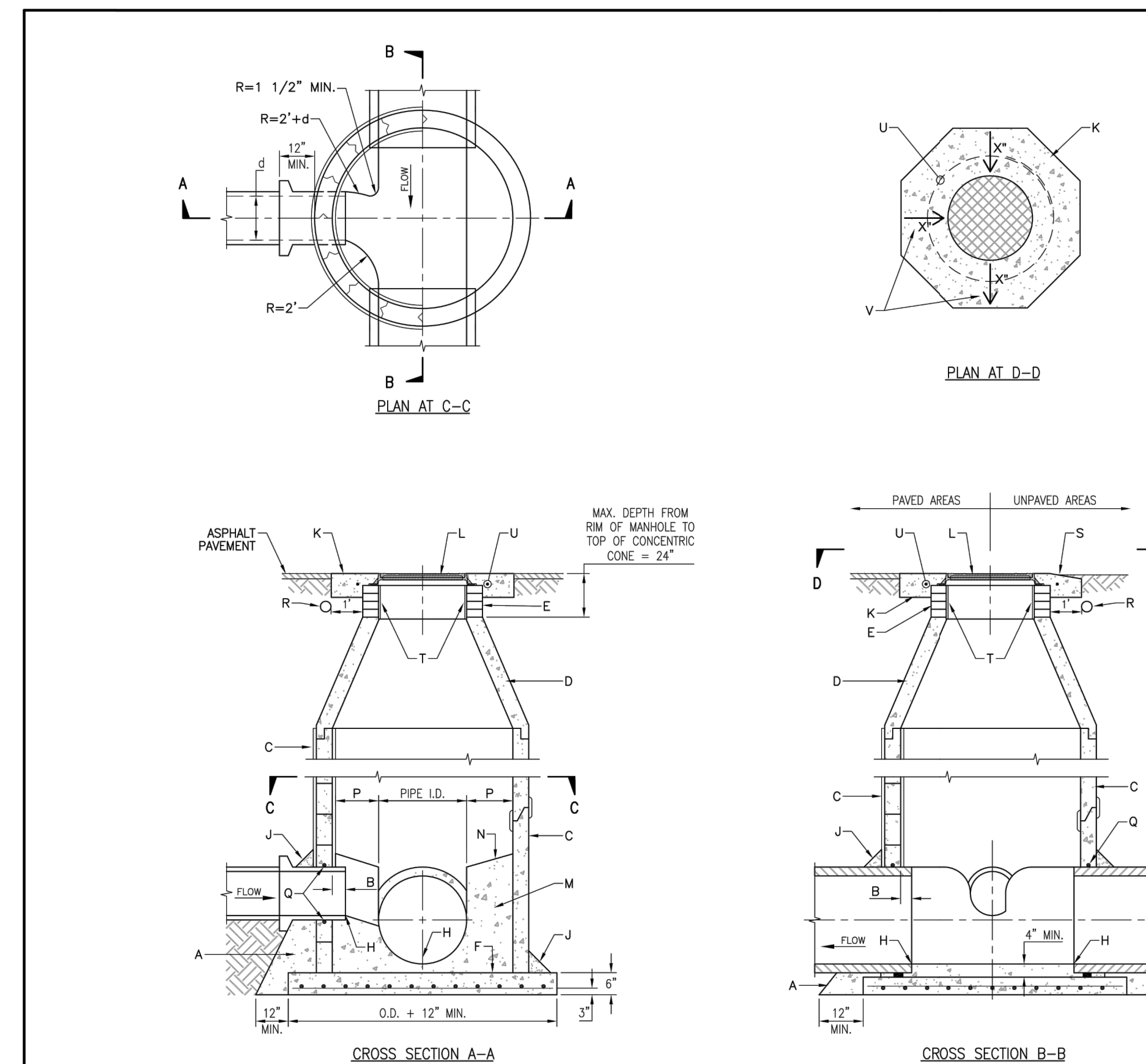
CONSTRUCTION NOTES

- INSTALL 1/2" EXPANSION JOINT.
- 7" DEPTH WHEN USED IN CONJUNCTION WITH 8" CURB; 5" DEPTH WHEN USED WITH 6" CURB.
- 3" RADIUS (TYPICAL).
- 3/8" CHECKERED STEEL PLATE (PAINT PER NOTE 4, ABOVE).
- NO. 3 REBAR --, SPACE AT 18" O.C. MAXIMUM, 1 1/2" MINIMUM FROM FACE OF CONCRETE. STAGGER FOR MULTIPLE CULVERTS.
- WELD 3/8" STEEL ROD TO PLATE, FULL LENGTH OF PLATE; GRIND ENDS FLUSH TO THE FACE OF CURB.
- DRAIN WIDTH PER PLAN (12" MINIMUM, 24" MAXIMUM).
- EXTEND CULVERT AND STEEL PLATE 1-FOOT BEYOND BACK OF SIDEWALK, UNLESS RESTRICTED BY PROPERTY LINE.
- IF SIDEWALK IS NOT AT BACK OF CURB, EXTEND CULVERT AND STEEL PLATE TO FACE OF CURB.
- SLOPE 1/4" PER FOOT (MINIMUM).
- FOR SECURING PLATE USE POWERS® 3/8-16 CARBON STEEL FLANGED DROP-IN ANCHOR OR APPROVED EQUAL. INSTALL USING SETTING TOOL AND MANUFACTURER'S INSTRUCTIONS AT MAX 24" O.C. A MINIMUM OF 2 PER SIDE AND WITHIN 6" OF EACH END.
- 3/8-16X1" COUNTERSUNK, STAINLESS STEEL, MACHINE SCREW. COVER HEAD WITH 2-PART EPOXY.
- FILL VOID BETWEEN PLATES WITH NP-1 SEALANT OR CITY APPROVED EQUIVALENT.
- NO. 3 REBAR, CONTINUOUS.
- HOLE DIAMETER AT BOTTOM OF COUNTERSUNK HOLE OF STEEL PLATE TO BE 1/2" DIAMETER.



SECTION B-B  
SINGLE OR MULTIPLE CULVERT

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE SIDEWALK CULVERT PLAN, AND SECTIONS A-A AND B-B DWG. 2236 JUNE 2019



GENERAL NOTES

- USE TYPE "E" MANHOLE FOR DEPTHS OF 2'-6" MEASURED FROM INVERT TO RIM.
- CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" MANHOLE IN LIEU OF TYPE "E" MANHOLE FOR DEPTHS 2'-6".
- MANHOLES >18" IN DEPTH SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS ONLY.
- DESIGN APPLIES TO 4" TO 6" I.D. MANHOLES.
- COMPACT ALL BACKFILL AROUND MANHOLE TO 95% (ASTM).
- USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PIPE PENETRATIONS.
- APPLY WATERPROOFING COATING TO EXTERIOR OF MANHOLE IN AREAS WHERE GROUNDWATER IS PRESENT.
- AN INTERIOR COATING, WITH A WATER AUTHORITY APPROVED EPOXY RESIN-TYPE MATERIAL SHALL BE APPLIED TO MANHOLES ON MAINS LARGER THAN 24" IN DIAMETER.
- POSITION MANHOLE OPENING OVER THE CENTER OF MANHOLE.

CONSTRUCTION NOTES

- CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
- PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
- MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF PRECAST CONCRETE IS USED, USE MASTIC GASKETS AND APPLY NON-SHRINK GROUT TO EXTERIOR AND INTERIOR OF EXPANSION JOINTS. IF BLOCK IS USED, APPLY 1/2" THICK MORTAR COATING TO EXTERIOR AND INTERIOR OF MANHOLE.
- PRECAST REINFORCED CONCRETE CONCENTRIC CONE. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.
- USE MAX. 4 COURSES GRADE MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF MANHOLE FRAME TO PAVEMENT GRADE.
- CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR MANHOLE DEPTH OF 2'-10". NO. 4 BARS AT 12" O.C. EA. WAY FOR MANHOLE DEPTH OF 1'-6".
- INVERT ELEVATION OF STUB OR LATERAL AS SHOWN ON PLANS.
- 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- OCTAGONAL CONCRETE PAD, SEE STANDARD DWG. 2461 FOR REFERENCE.
- MANHOLE FRAME AND COVER, SEE DRAWING 2109. INSTALL A 24" COVER FOR SEWER LINE 24" AND A 30" COVER FOR SEWER LINE 30" >.
- CONCRETE, SEE SPECIFICATION SECTION 101.
- SLOPE 1" PER FT. FROM PIPE CROWN.
- SHELF TO BE 9" WIDE MIN.
- APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
- ELECTRONIC MARKER DEVICE (EMD), SEE STANDARD SPECIFICATION SECTION 170.
- CONCRETE COLLAR IN UNPAVED AREAS, SEE STANDARD DRAWING 2461.
- APPLY 1/2" THICK MORTAR COATING TO INTERIOR OF OPENING.
- #4 REBAR PER STANDARD DRAWING 2461.
- TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND FLOW DIRECTION ARROWS. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

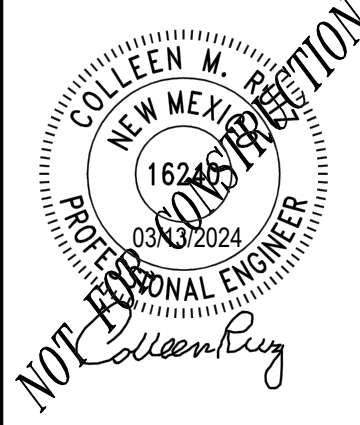
REVISIONS	WATER AUTHORITY
JAN. 2013	SANITARY SEWER MANHOLE TYPE "E" DWG. 2102 OCT. 2017

PROJECT TITLE

ISSUE NO.:

DATE	DESCRIPTION	ISSUE NO.
01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	DRB SUBMITTAL	1
03/20/2024	BID SET	2
04/24/2024	DRB RESUBMITTAL	3

CERTIFICATION:



PROJECT NO.: 193806697

DWN BY: HKK CHKD BY: JRA APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

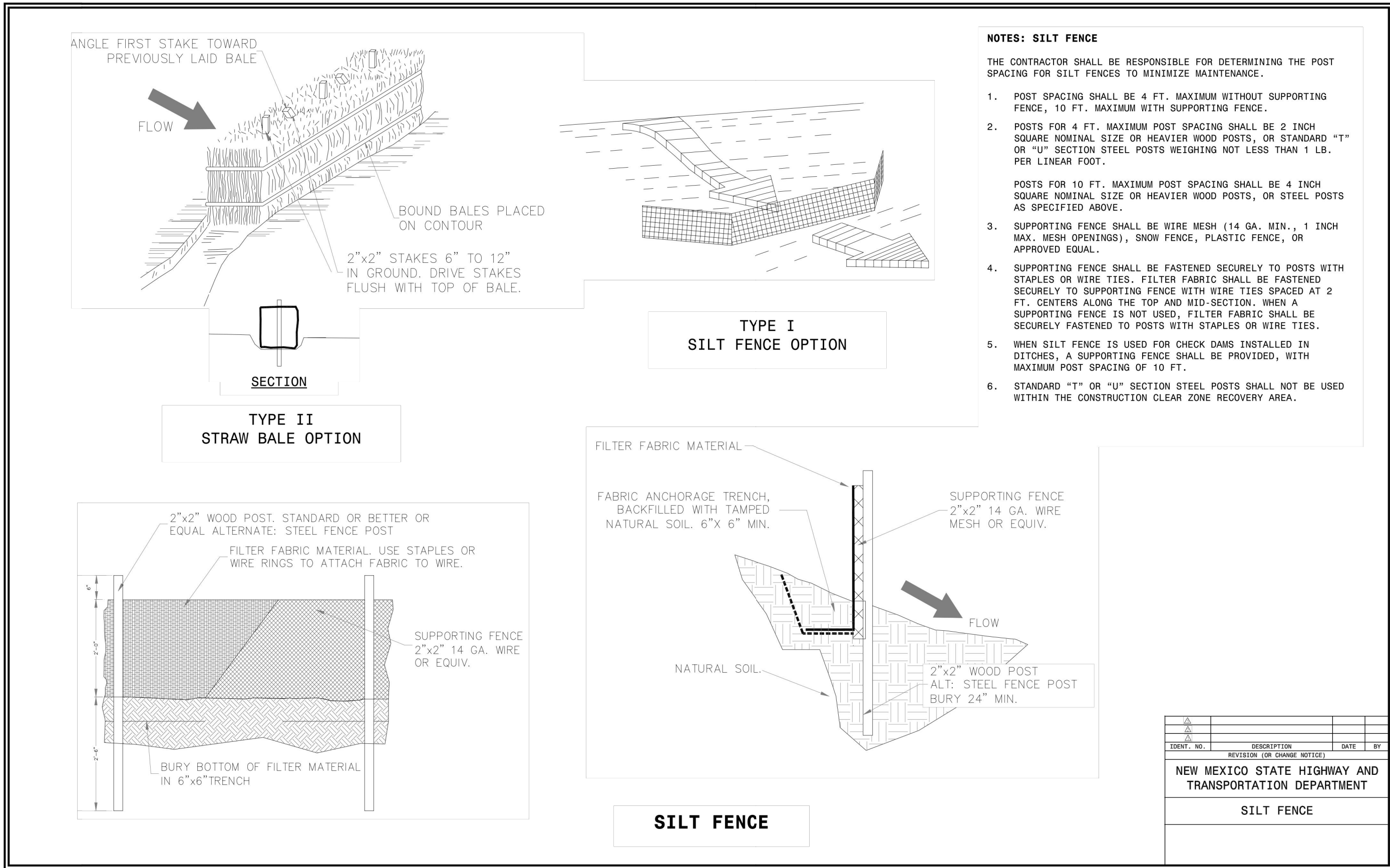
SHEET TITLE:

DETAILS

SHEET NO.:

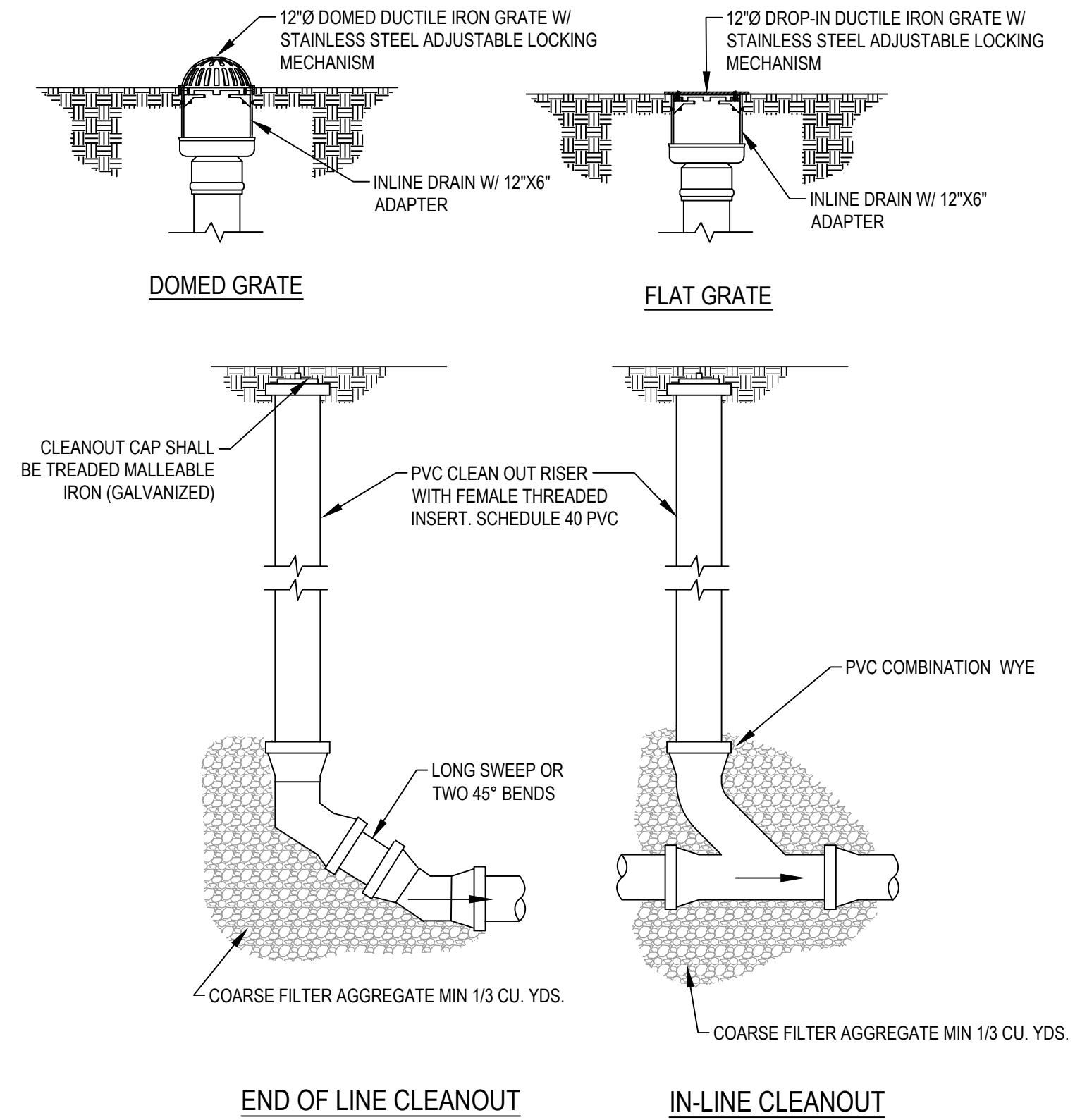
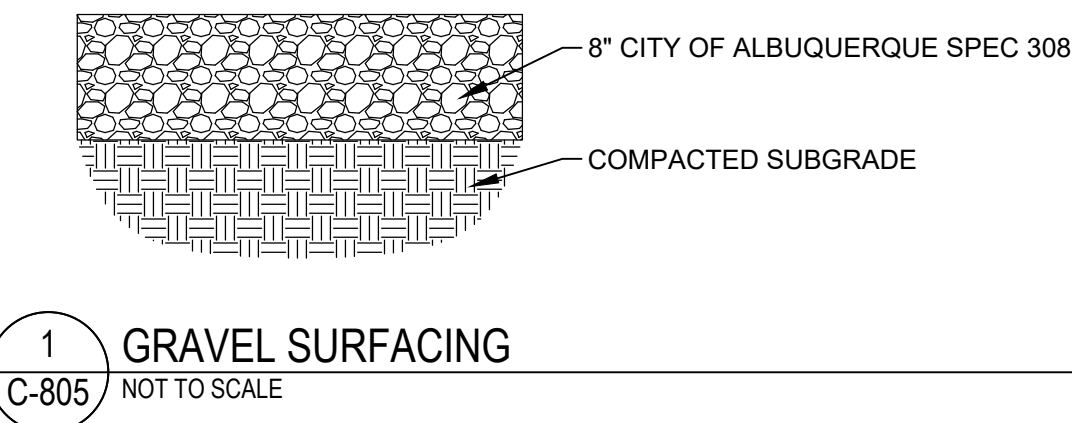
**C-804**



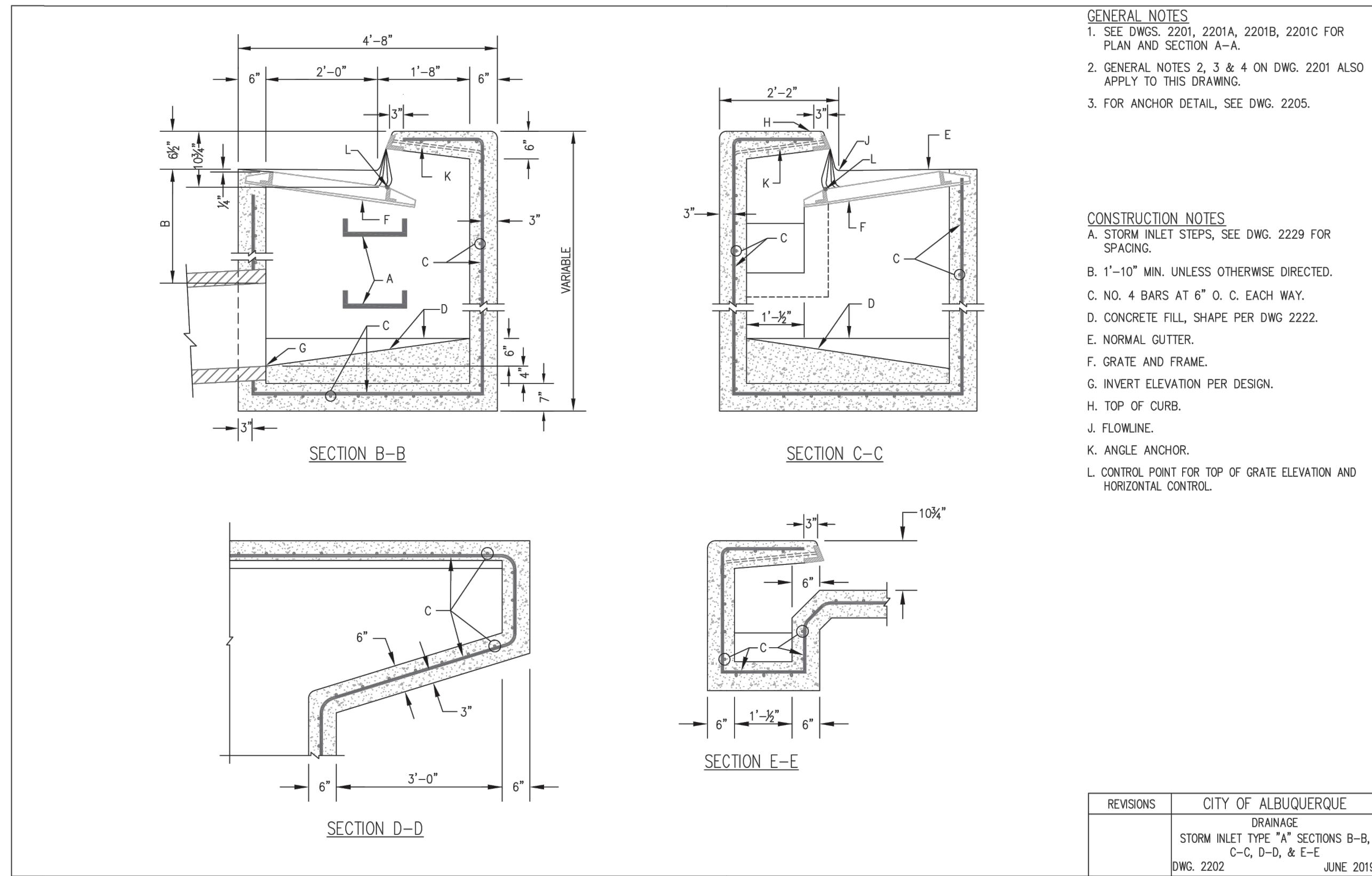


SHEET NO. 3 OF 7

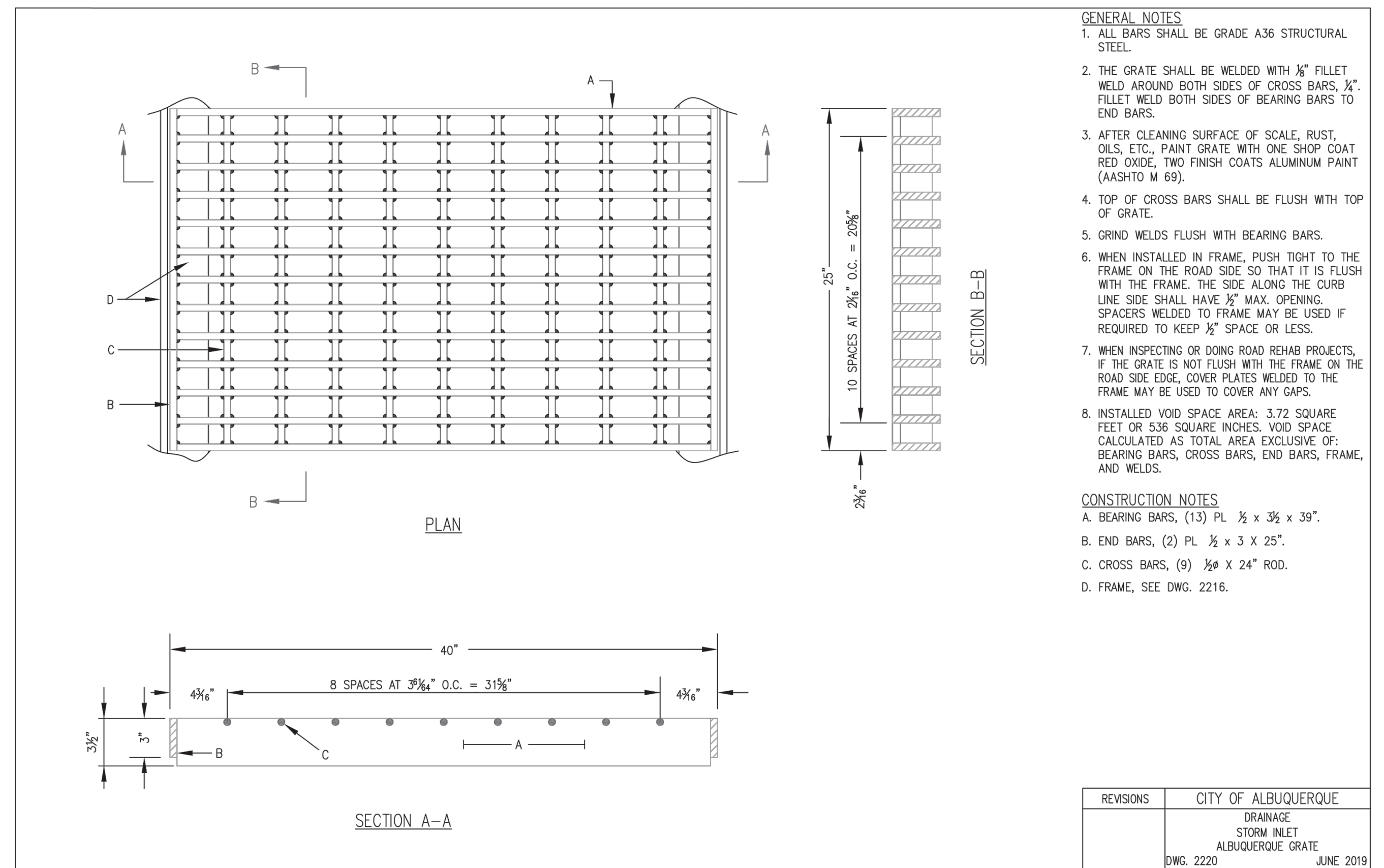
REVISION NO.	DESCRIPTION	DATE	BY
1	NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT		
SILT FENCE			



CONTRACTOR TO PROVIDE FORD METER BOX - LOCKING IRON LID STYLE A1 OR EQUAL FOR CLEANOUTS LOCATED IN PAVED AREAS.



REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE
	STORM INLET TYPE "A" SECTIONS B-B, C-C, D-D, & E-E
	DWG. 2202 JUNE 2019



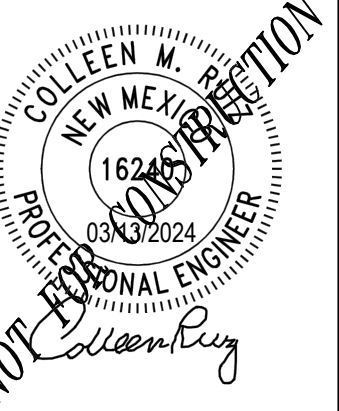
REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE
	STORM INLET
	ALBUQUERQUE GRATE
	DWG. 2220 JUNE 2019

PROJECT TITLE

ISSUE NO.:

DATE	DESCRIPTION
01/08/2024	PRE APPLICATION SUBMITTAL
03/08/2024	PRB SUBMITTAL
03/20/2024	RID SET
04/24/2024	CRB RESUBMITTAL

CERTIFICATION:



PROJECT NO.: 193806697

DWN BY: HKK CHKD BY: JRA APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE:

DETAILS

SHEET NO.:

**C-805**



**GENERAL NOTES**

- ALL MANHOLES 220' IN DEPTH WILL REQUIRE AN INTERMEDIATE LANDING IN THE MANHOLE BARREL. TYPE "C" MANHOLE TOP SLABS SHALL BE USED AS INTERMEDIATE LANDINGS.
- INTERMEDIATE LANDINGS SHALL BE LOCATED AT THE MID POINT ±2' OF THE HEIGHT OF THE MANHOLE AT NO TIME SHALL AN INTERMEDIATE LANDING OR A SIZE ADJUSTMENT TOP BE INSTALLED CLOSER THAN 8' UP FROM THE INVERT OF THE MANHOLE.

**CONSTRUCTION NOTES**

- PRECAST REINFORCED CONCRETE MANHOLE TOP SLAB.
- ALL BARS TO HAVE 1/2" MIN. COVER.
- 1" PIPE SLEEVE VERTICALLY THROUGH TOP SLAB.
- TOP MAT NO. 4 BARS 6" O.C. EACH WAY FOR 4', 6" AND 8" I.D. MANHOLES.
- NO. 4 BARS
- BOTTOM MAT NO. 4 BARS 6" O.C. EACH WAY FOR 4' AND 6" I.D. MANHOLES, NO. 8 BARS 8" O.C. EACH WAY FOR 8" I.D. MANHOLES.
- NO. 4 BARS FOR 4' AND 6" I.D. MANHOLES.
- WHEN PRECAST MANHOLE SECTIONS ARE USED, TOP SLAB SHALL BE MODIFIED TO SHAPE OF APPROPRIATE SIZE TONGUE AND GROOVE JOINT.
- CONCRETE, SEE SECTION 101.

MANHOLE I.D.	48"	60"	72"	96"	120"
TOP SLAB THK.	8"	8"	8"	10"	10"
WALL THK.	5"	6"	7"	9"	11"
TOP LAYER STEEL (IN <sup>2</sup> /FT)	0.40	0.40	0.40	0.40	0.40
BTM LAYER STEEL (IN <sup>2</sup> /FT)	0.40	0.43	0.50	1.19	1.19
REPLACEMENT STEEL (BAR #)	(8)#5's	(8)#5's	(8)#6's	(8)#8's	(8)#8's
APPROX. WEIGHT (LBS.)	1,521	2,513	3,720	8,468	13,355

**NOTES:**

- $f_c = 4000$  psi (MIN.)
- $f_y = 60,000$  (MIN.)
- 1/2" MINIMUM CLEAR CONCRETE COVER OVER REINFORCEMENT
- 15-20 LIVE LOAD
- SEE TABLE FOR APPROXIMATE WEIGHT

**REVISIONS**

NO.	DESCRIPTION
1	ISSUED FOR PERMITS

**WATER AUTHORITY**  
SANITARY SEWER CONCRETE MANHOLE TOP SLAB TYPE "C"  
DWG. 2107 JAN. 2013

**GENERAL NOTES**

- LOCATION DETAILS FOR PLACING INLETS AND STANDARD CURB AND GUTTER ARE TO BE SHOWN ON DESIGN PLANS.
- CURB HEIGHT WILL BE 8" AT OUTER LIMITS OF DETAIL. ANY TRANSITION TO DIFFERENT HEIGHT CURB WILL OCCUR OUTSIDE THE LIMITS OF THIS DETAIL AND MUST BE SPECIFIED SEPARATELY ON THE PLANS.

**CONSTRUCTION NOTES**

- STANDARD CURB AND GUTTER.
- STRAIGHT GRADE.
- EXPANSION JOINT.
- TOP OF CURB.
- FLOWLINE PER PLAN.
- FOR FRAME & GRATE SEE DWG. 2216, 2220 & 2221.
- DIRECTION OF FLOW.
- CONTROL POINT FOR TOP OF GRATE ELEVATION AND HORIZONTAL CONTROL.
- BACK OF CURB.
- WHEN INSTALLING AT SAC POINT AND SUMP CONDITIONS NOT ADJACENT TO A CURB RETURN, PROVIDE THE 10:1 TAPER ON EACH SIDE.
- THE TAPER SHALL GOVERN THE LENGTH OF THE TRANSITION SLAB.
- FOR INLETS PROTRUDING 2'-6" FROM FLOWLINE, TRANSITION SLAB LENGTHS ARE AS FOLLOWS:

GUTTER PAN WIDTH	TRANSITION SLAB UPSTREAM SLAB LENGTH (MIN.)	TRANSITION SLAB DOWNSTREAM SLAB LENGTH (MIN.)
10"	17'	10'
16"	12'	7'
24"	5'	3'

**REVISIONS**

NO.	DESCRIPTION
1	ISSUED FOR PERMITS

**CITY OF ALBUQUERQUE**  
DRAINAGE  
STORM INLET GUTTER TRANSITION  
DWG. 2207 FEBRUARY 2021

**GENERAL NOTES**

- ALL CONCRETE SHELF SLOPES TO BE 1" PER FT.
- 1/4" PER FT. MIN. SLOPE FOR 4" OR 6" SERVICE LINE.
- NEW SERVICE CONNECTIONS TO EXISTING MANHOLES MUST BE CORE DRILLED.
- 8" OR LARGER SERVICE CONNECTIONS MUST BE MADE TO A MANHOLE.

**CONSTRUCTION NOTES**

- CAST IRON SERVICE STUB.
- VARIABLE WITH MAX. ANGLE OF 90°.
- FORM INVERT IN SHELF.
- BELL END.
- CONCRETE, SEE SECTION 101.
- MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF PRECAST CONCRETE IS USED, USE MASTIC GASKETS AND APPLY NON-SHRINK GROUT TO EXTERIOR AND INTERIOR OF EXPANSION JOINTS. IF BLOCK IS USED, APPLY 1/2" THICK MORTAR COATING TO EXTERIOR AND INTERIOR OF MANHOLE.
- INVERT ELEVATIONS OF SERVICE LINES SHALL BE THE SAME AS THE SPRING LINE ELEVATION OF THE SEWER MAIN.
- MIN. 6" BLOCK FOR 4" I.D. MANHOLE, 8" BLOCK OR DOUBLEWALL OF 2-5" BLOCKS FOR 6" OR 8" DIAMETER MANHOLES.
- PRECAST WALL THICKNESS:  
4" I.D. MANHOLE - 5" MIN.  
6" I.D. MANHOLE - 7" MIN.  
8" I.D. MANHOLE - 9" MIN.

**REVISIONS**

NO.	DESCRIPTION
1	ISSUED FOR PERMITS

**WATER AUTHORITY**  
SANITARY SEWER SERVICE LINE CONNECTIONS AT MANHOLE  
DWG. 2118 JAN. 2013

**CULVERT PROTECTION**

**PLAN VIEW**

**PROFILE**

**SECTION B-B**  
SOIL RETENTION BLANKET

**SECTION B-B**  
SOIL RETENTION ROCKS

**SOIL RETENTION BLANKET STAPLE PATTERN**

**DROP INLET PROTECTION**

**TYPE I**

**TYPE II**  
CURB DROP INLET

**NOTES:**

- WHEN CULVERT PROTECTION IS SPECIFIED, EITHER SOIL RETENTION BLANKETS OR SOIL RETENTION ROCK MAY BE PROVIDED.
- THE CULVERT PROTECTION WIDTH REQUIRED SHALL BE IN ACCORDANCE WITH THESE DETAILS UNLESS SPECIFIED OTHERWISE.
- THE SOIL RETENTION BLANKET INSTALLATION SHOWN OUTLINES MINIMUM REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IF THEY ARE MORE STRINGENT.

**NOTE:** WHEN SPECIFIED, ROCKS OR STRAW BALES CAN BE SUBSTITUTED FOR SILT FENCE.

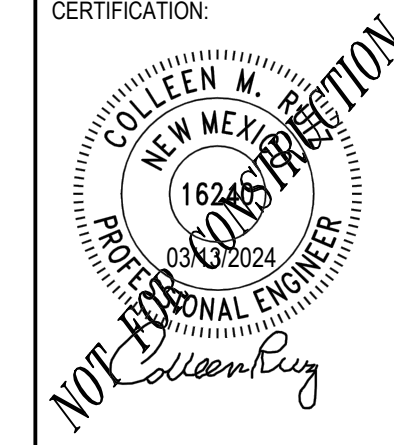
**REVISIONS**

NO.	DESCRIPTION
1	ISSUED FOR PERMITS

**CULVERT & DROP INLET PROTECTION**

PROJECT TITLE

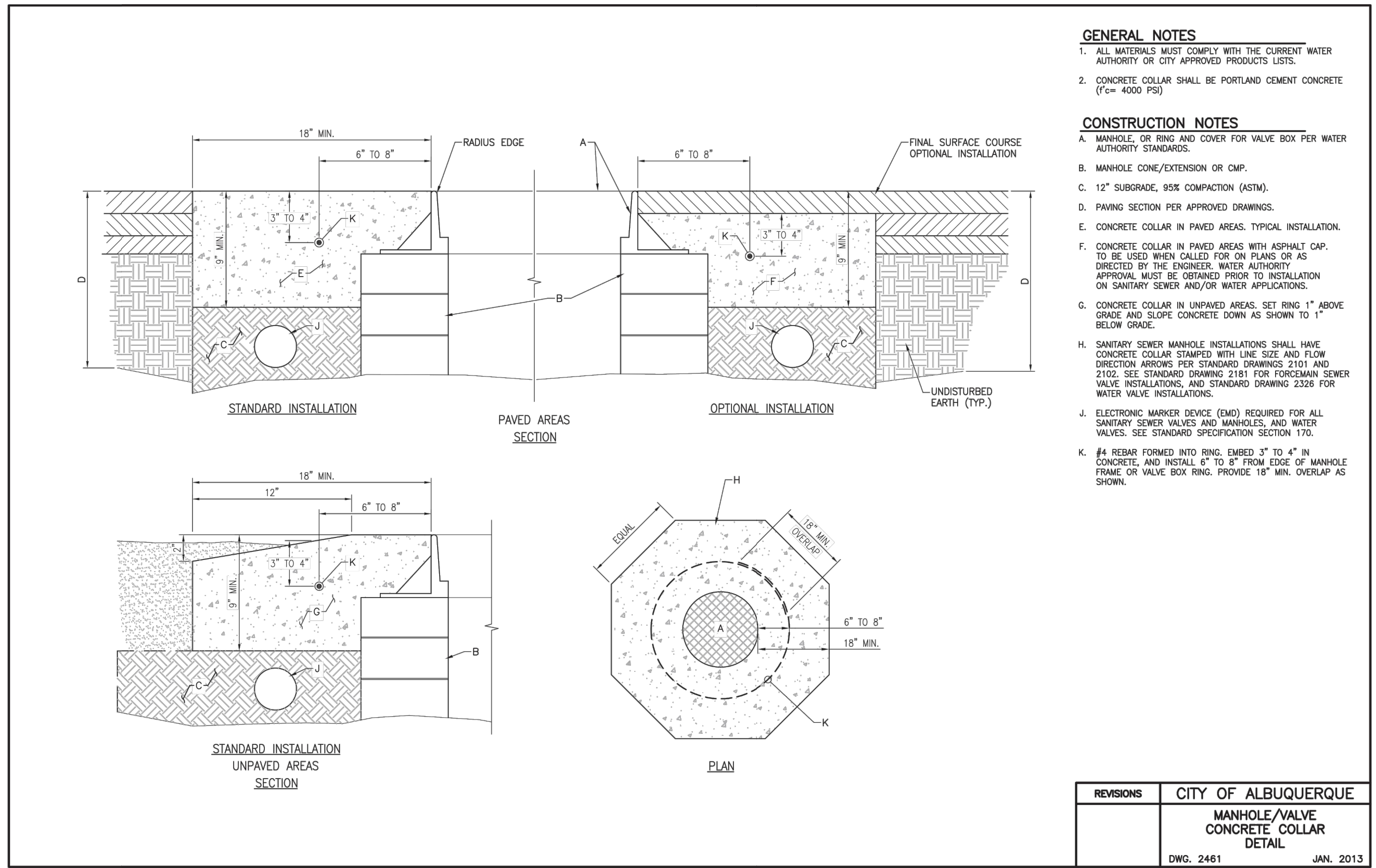
ISSUE NO.	DATE	DESCRIPTION
0	03/08/2024	PRE APPLICATION SUBMITTAL
1	03/08/2024	DRB SUBMITTAL
2	03/20/2024	BID SET
3	04/24/2024	DRB RESUBMITTAL



CERTIFICATION:

PROJECT NO.:	193806697	
DWN BY:	CHKD BY:	APPD BY:
HKK	JRA	CMR
ISSUE DATE:	04/24/2024	
ISSUE NO.:	3	





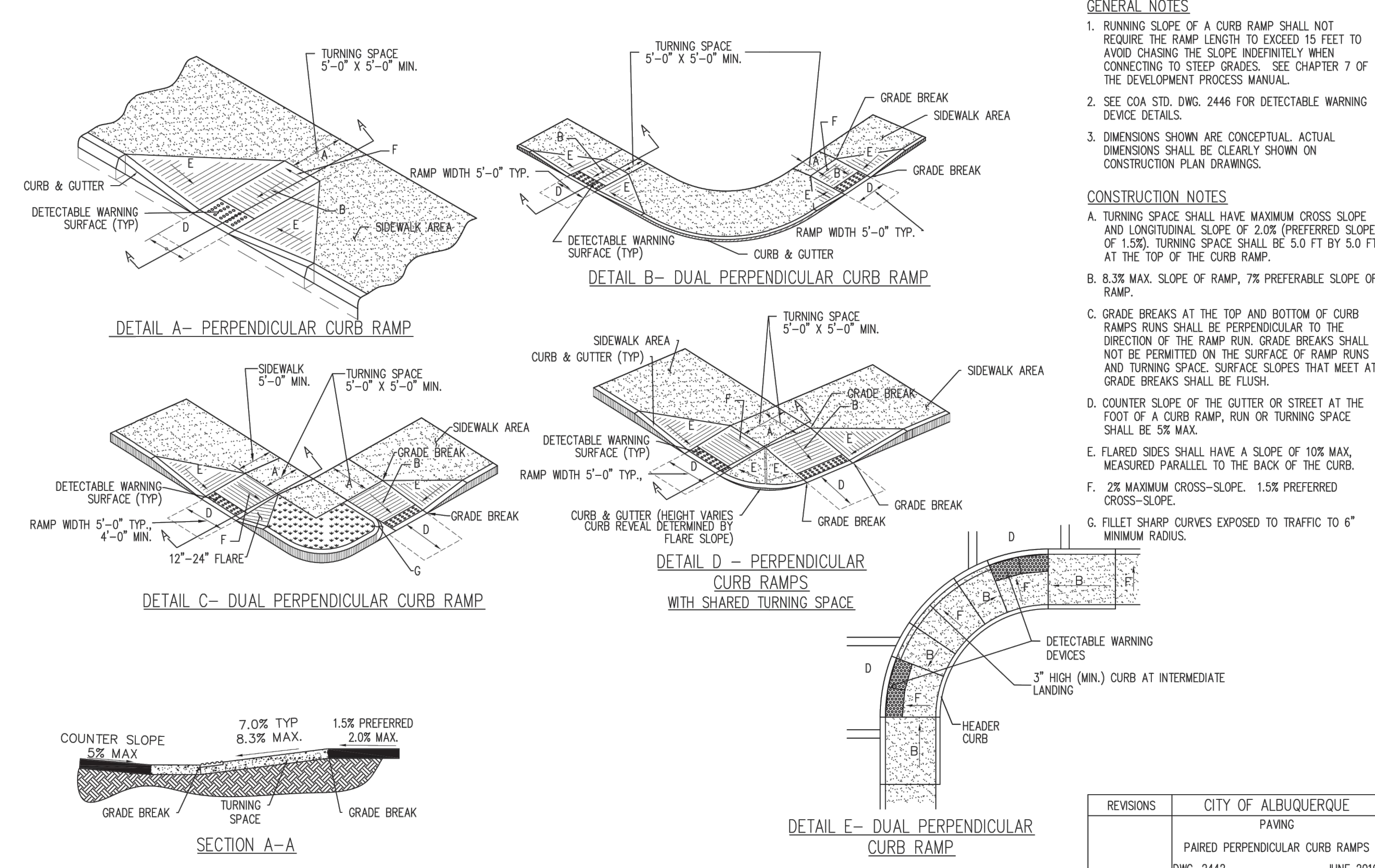
**GENERAL NOTES**

- ALL MATERIALS MUST COMPLY WITH THE CURRENT WATER AUTHORITY OR CITY APPROVED PRODUCTS LISTS.
- CONCRETE COLLAR SHALL BE PORTLAND CEMENT CONCRETE (f'c= 4000 PSI)

**CONSTRUCTION NOTES**

- MANHOLE, OR RING AND COVER FOR VALVE BOX PER WATER AUTHORITY STANDARDS.
- MANHOLE CONE/EXTENSION OR CMP.
- 12\"/>

REVISIONS	CITY OF ALBUQUERQUE
	MANHOLE/VALVE CONCRETE COLLAR DETAIL
	DWG. 2461 JAN. 2013



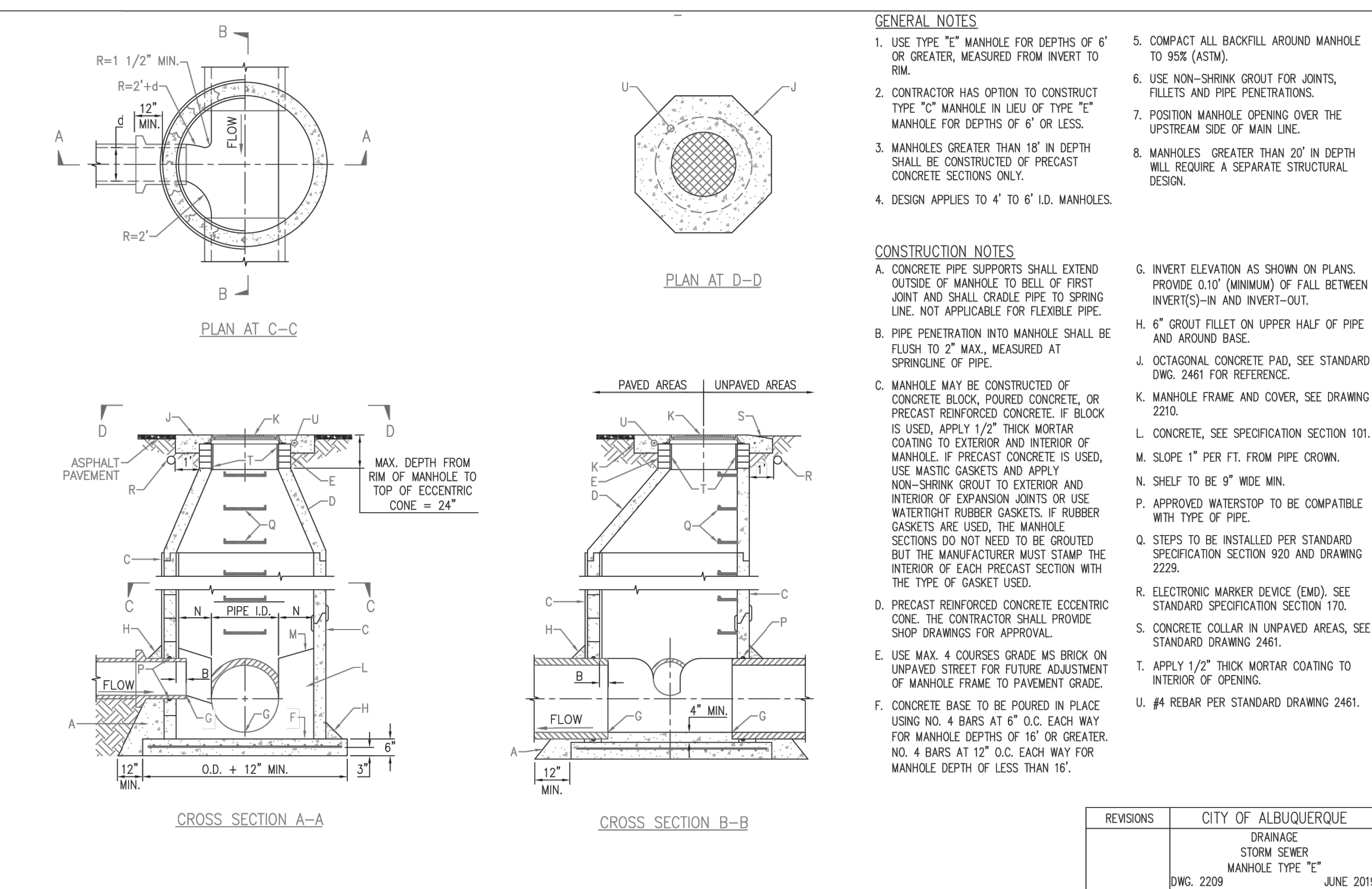
**GENERAL NOTES**

- RUNNING SLOPE OF A CURB RAMP SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. SEE CHAPTER 7 OF THE DEVELOPMENT PROCESS MANUAL.
- SEE COA STD. DWG. 2446 FOR DETECTABLE WARNING DEVICE DETAILS.
- DIMENSIONS SHOWN ARE CONCEPTUAL. ACTUAL DIMENSIONS SHALL BE CLEARLY SHOWN ON CONSTRUCTION PLAN DRAWINGS.

**CONSTRUCTION NOTES**

- TURNING SPACE SHALL HAVE MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.0% (PREFERRED SLOPE OF 1.5%). TURNING SPACE SHALL BE 5.0 FT BY 5.0 FT AT THE TOP OF THE CURB RAMP.
- 8.3% MAX. SLOPE OF RAMP, 7% PREFERRED SLOPE OF RAMP.
- GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACE SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
- COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, RUN OR TURNING SPACE SHALL BE 5% MAX.
- FLARED SIDES SHALL HAVE A SLOPE OF 10% MAX. MEASURED PARALLEL TO THE BACK OF THE CURB.
- 2% MAXIMUM CROSS-SLOPE. 1.5% PREFERRED CROSS-SLOPE.
- FILLET SHARP CURVES EXPOSED TO TRAFFIC TO 6\"/>

REVISIONS	CITY OF ALBUQUERQUE
	PAVED PERPENDICULAR CURB RAMPS
	DWG. 2442 JUNE 2019



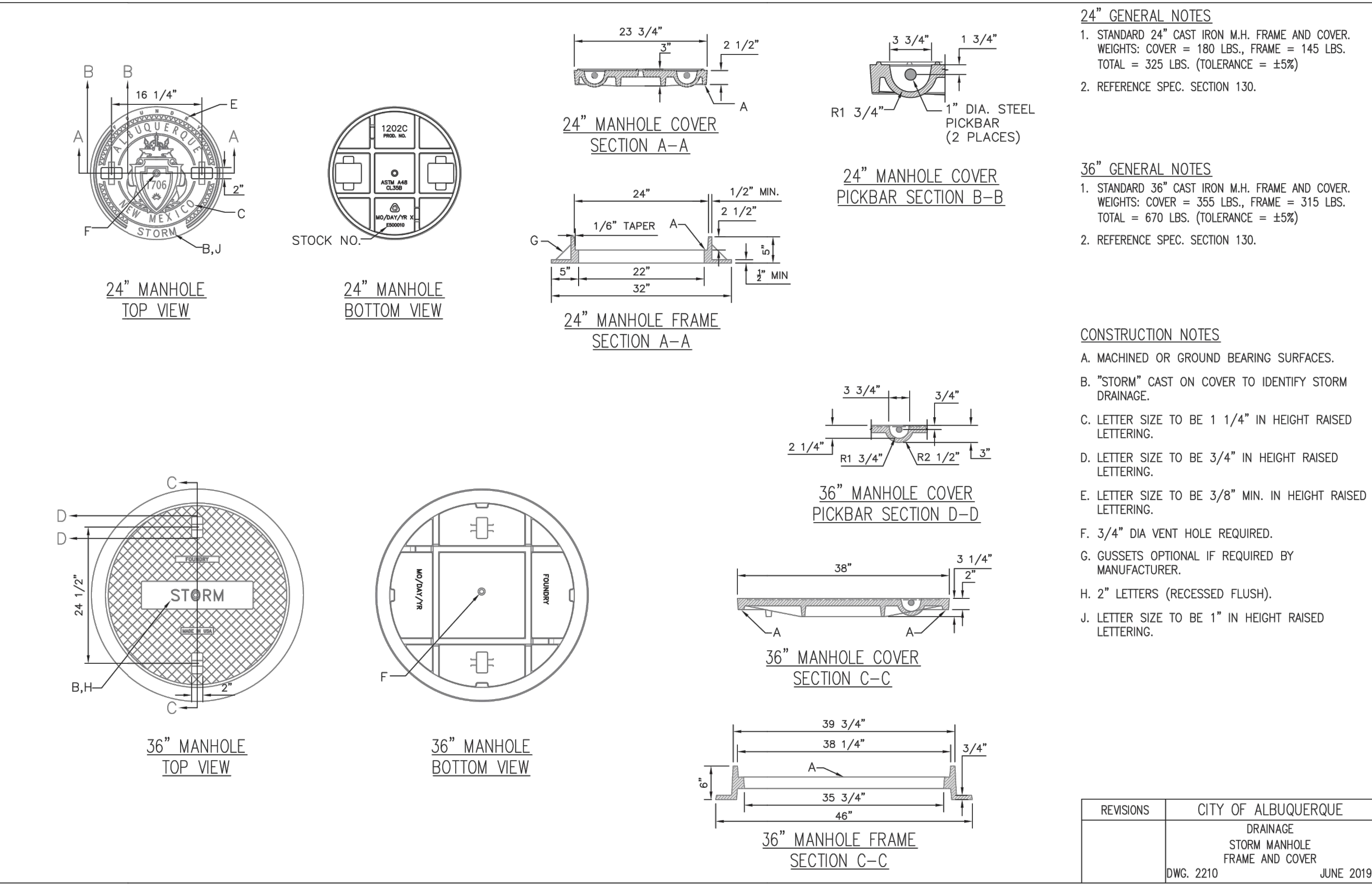
**GENERAL NOTES**

- USE TYPE "E" MANHOLE FOR DEPTHS OF 6' OR GREATER, MEASURED FROM INVERT TO RIM.
- CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" MANHOLE IN LIEU OF TYPE "E" MANHOLE FOR DEPTHS OF 6' OR LESS.
- MANHOLES GREATER THAN 18' IN DEPTH SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS ONLY.
- DESIGN APPLIES TO 4' TO 6' I.D. MANHOLES.
- COMPACT ALL BACKFILL AROUND MANHOLE TO 95% (ASTM).
- USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PIPE PENETRATIONS.
- POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
- MANHOLES GREATER THAN 20' IN DEPTH WILL REQUIRE A SEPARATE STRUCTURAL DESIGN.

**CONSTRUCTION NOTES**

- CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
- PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2\"/>

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM SEWER MANHOLE TYPE "E"
	DWG. 2209 JUNE 2019



**24\"/>**

**36\"/>**

**CONSTRUCTION NOTES**

- MACHINED OR GROUND BEARING SURFACES.
- "STORM" CAST ON COVER TO IDENTIFY STORM DRAINAGE.
- LETTER SIZE TO BE 1 1/4\"/>

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM MANHOLE FRAME AND COVER
	DWG. 2210 JUNE 2019



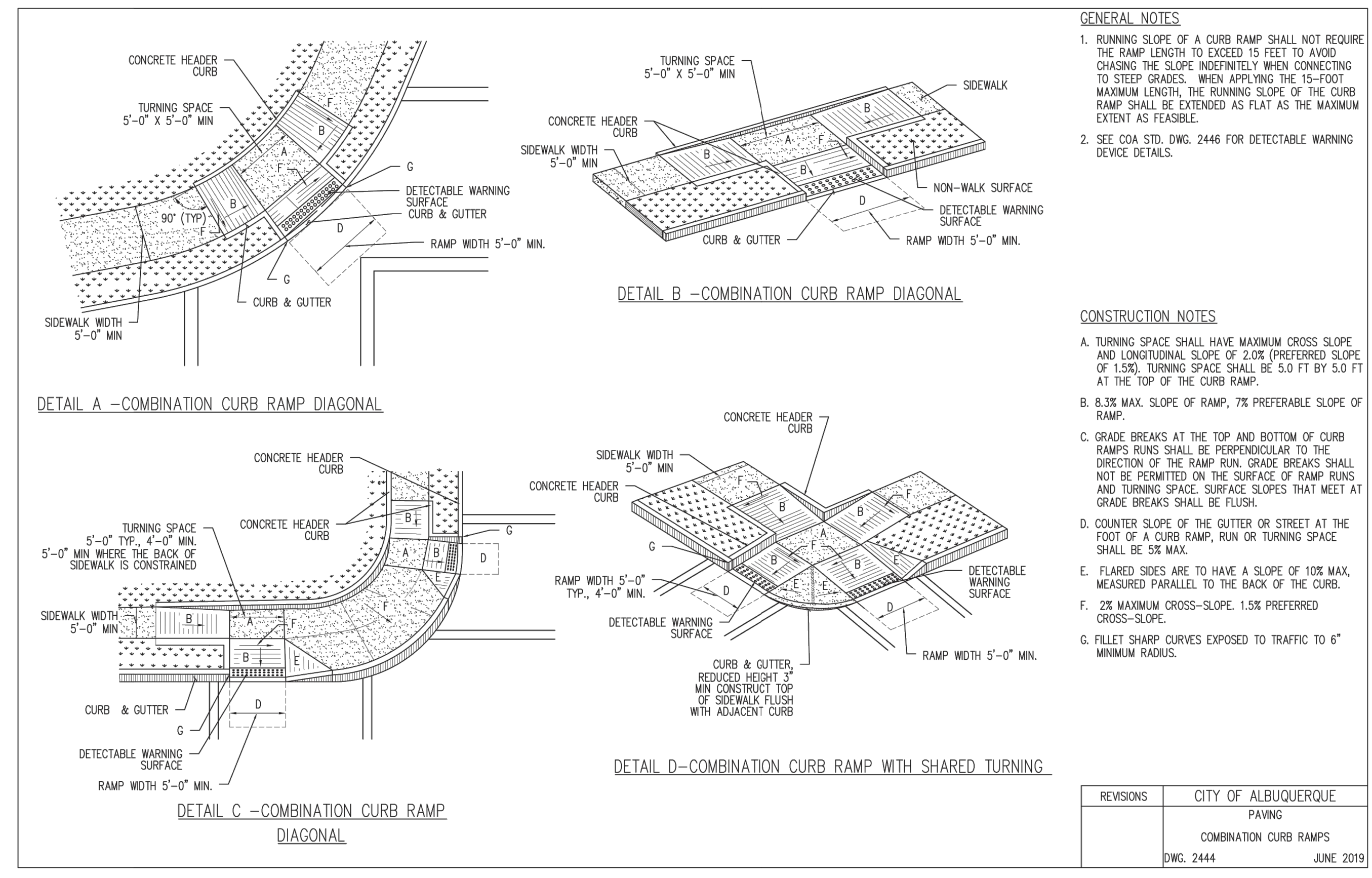
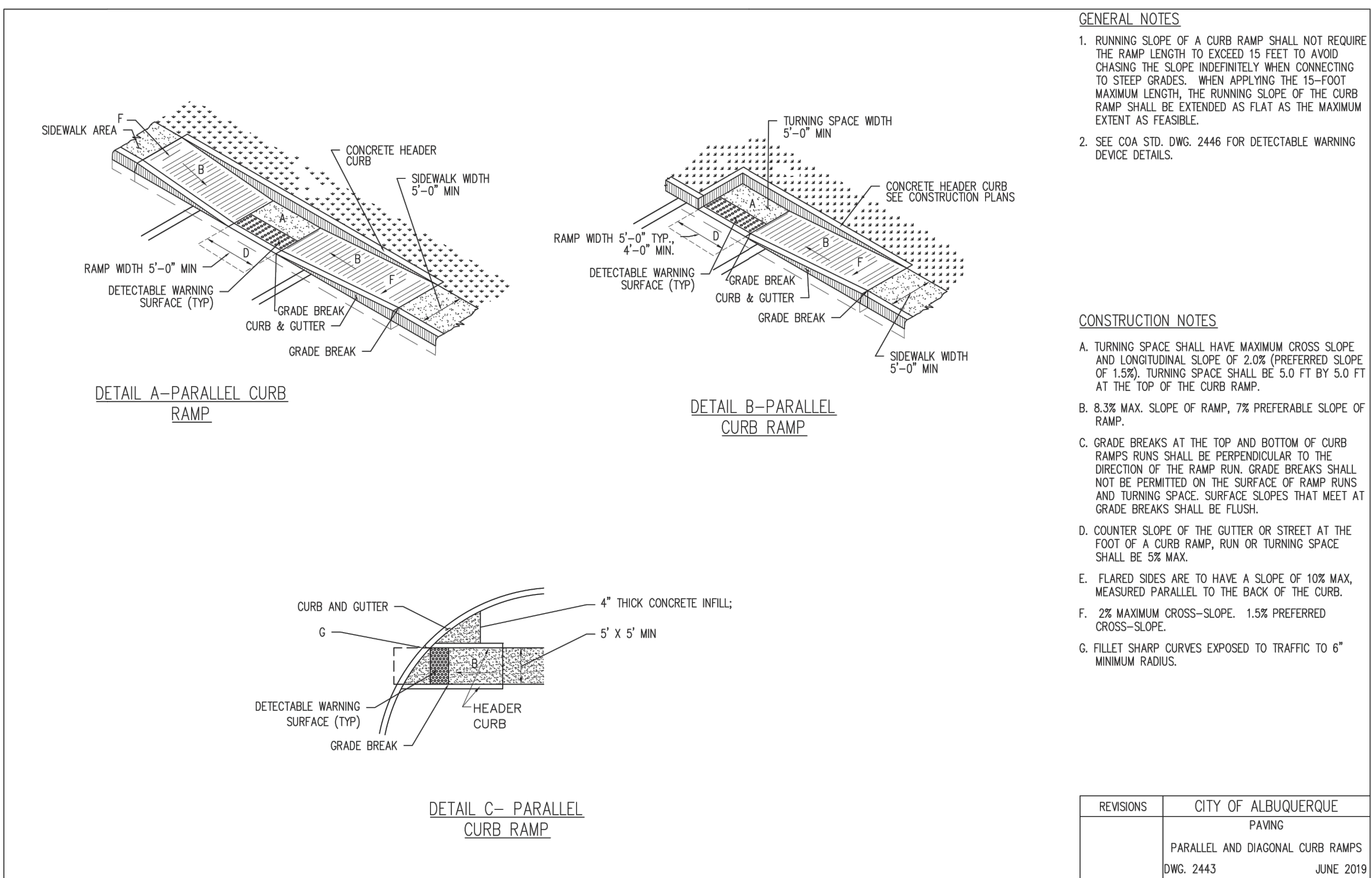
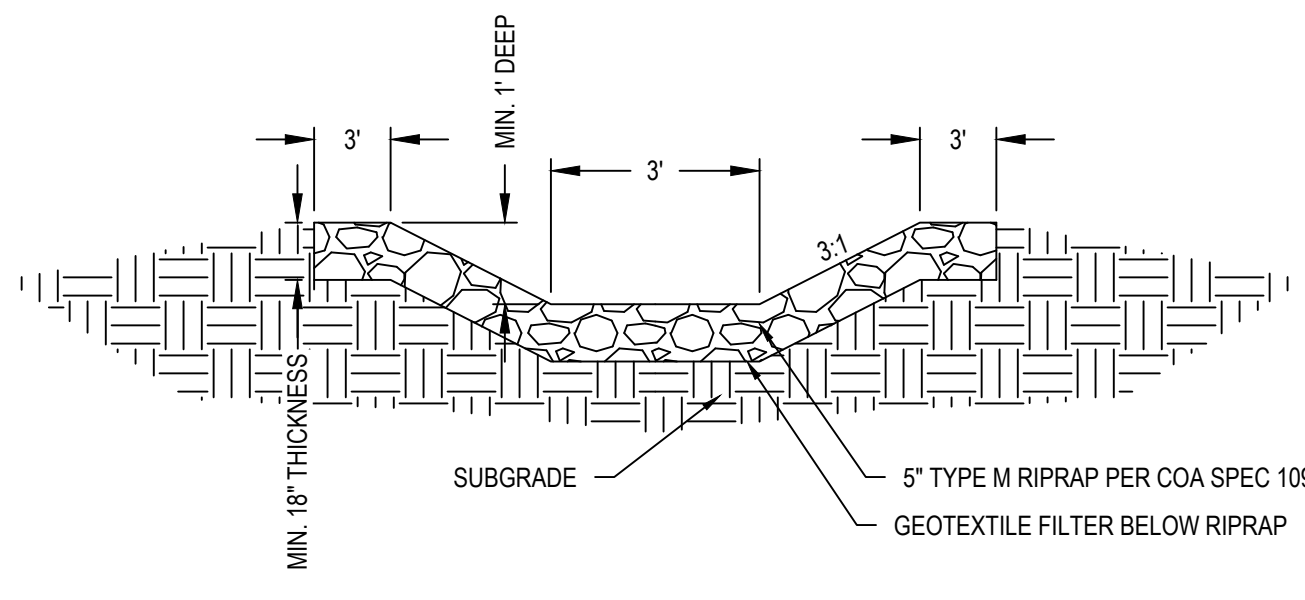
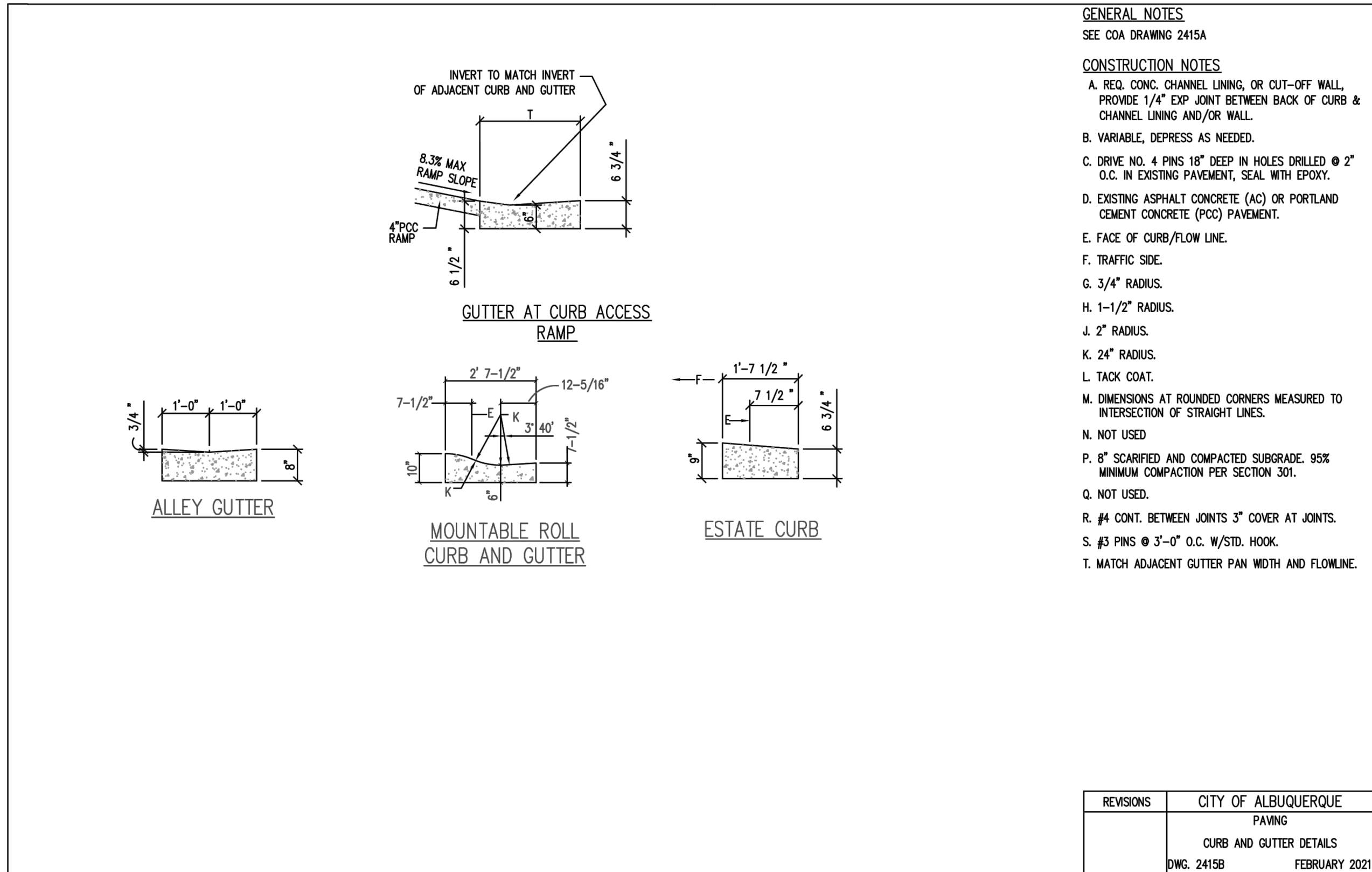
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**ALBUQUERQUE 10 MW DATA CENTER**  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE	ALBUQUERQUE 10 MW DATA CENTER		
ISSUE NO.	0	1	2
DESCRIPTION	PRE APPLICATION SUBMITTAL	PRB SUBMITTAL	PRB RESUBMITTAL
DATE	01/08/2024	03/08/2024	04/24/2024
CERTIFICATION:			
PROJECT NO.:	193806697		
DWN BY:	CHKD BY:	APPD BY:	
HKK	JRA	CMR	
ISSUE DATE:	04/24/2024		
ISSUE NO.:	3		
SHEET TITLE:	DETAILS		
SHEET NO.:	C-807		





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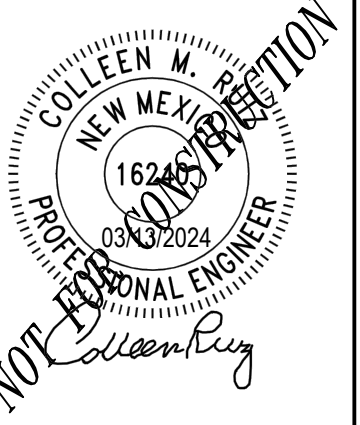
ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO.

DATE	DESCRIPTION
01/08/2024	PRE APPLICATION SUBMITTAL
03/08/2024	PRB SUBMITTAL
03/20/2024	PRB SET
04/24/2024	PRB RESUBMITTAL

CERTIFICATION:



PROJECT NO.: 193806697

DWN BY: HKK CHKD BY: JRA APPD BY: CMR

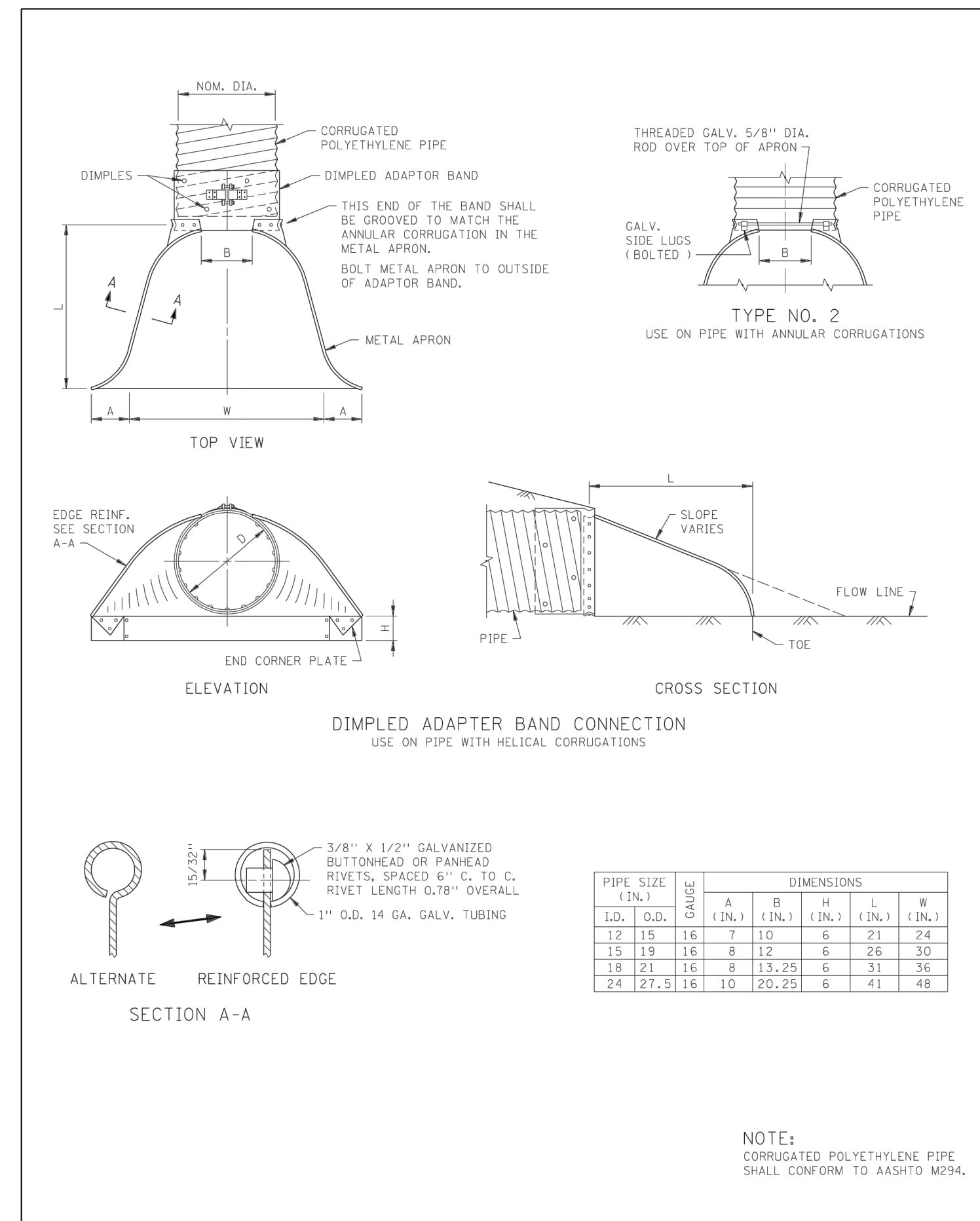
ISSUE DATE: 04/24/2024

ISSUE NO.: 3

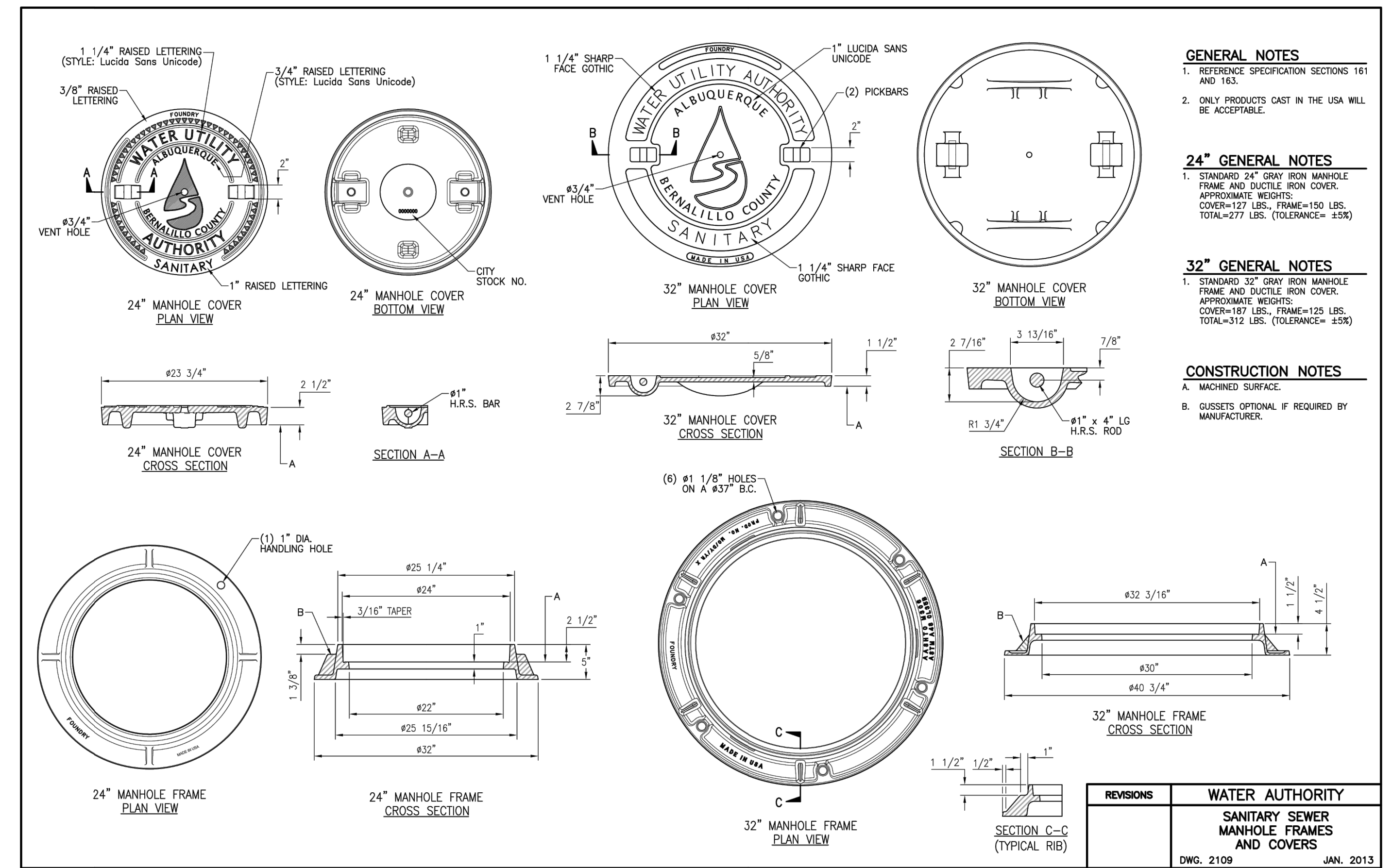
SHEET TITLE: DETAILS

SHEET NO.: C-808





**1** METAL APRON FOR GALVANIZED PVC PIPE  
C-809 NOT TO SCALE



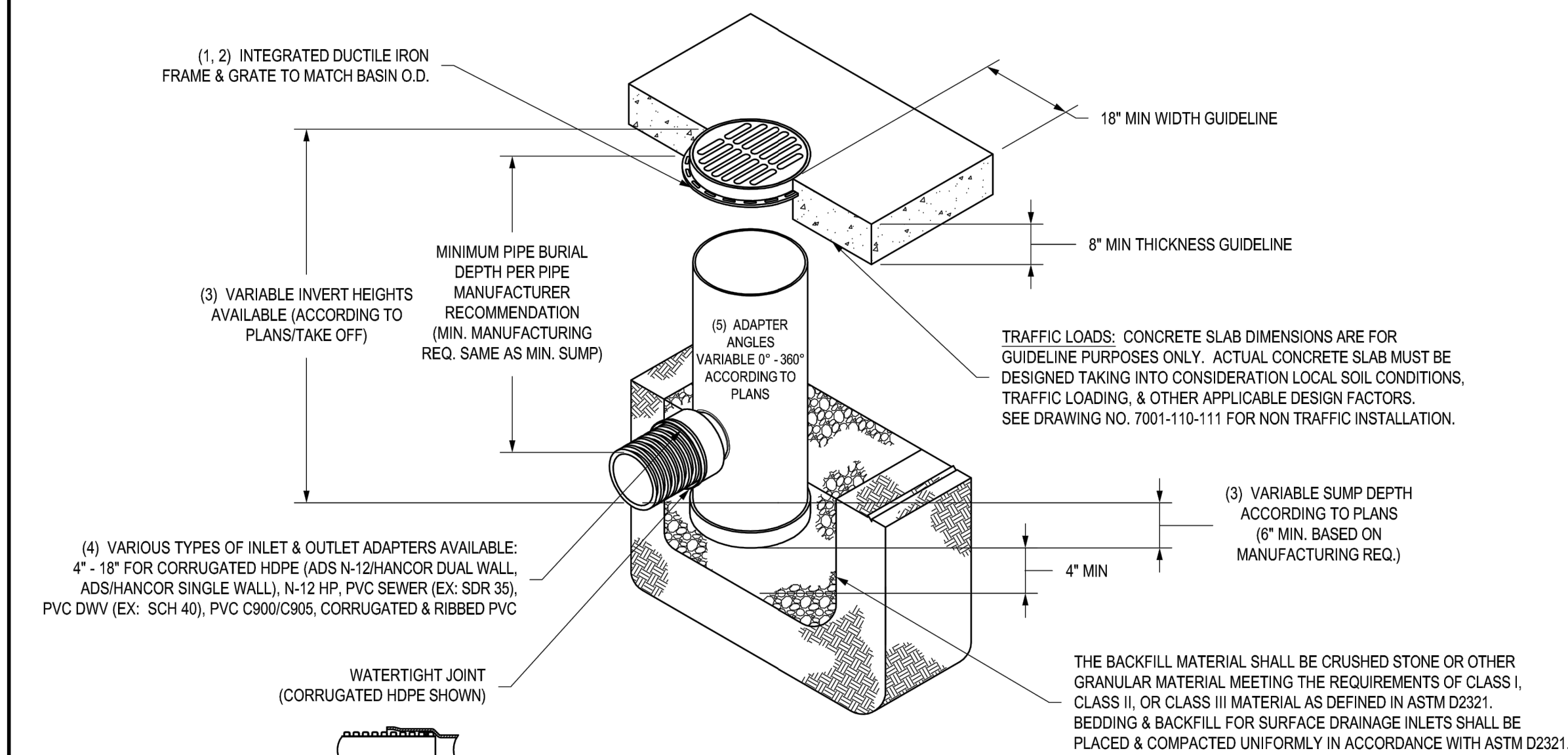
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SUITE 1000  
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WWW.STANTEC.COM

CLIENT:



**ALBUQUERQUE 10 MW DATA CENTER**  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

**NYLOPLAST 18" DRAIN BASIN: 2818AG \_\_ X**



- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-066.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC SEWER).
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

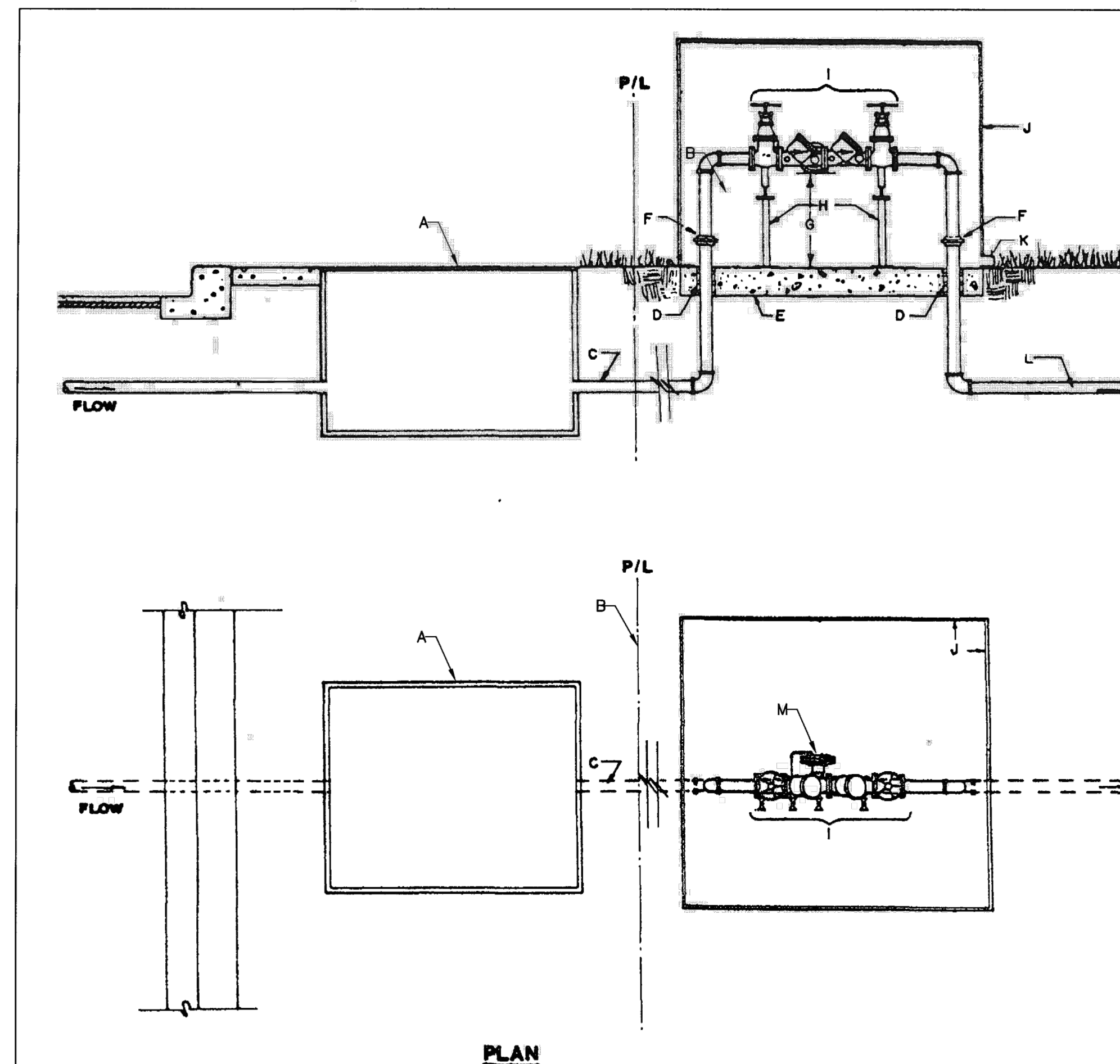
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**DRAWN BY** EBC  
**DATE** 04-03-06  
**REVISOR** NMH  
**DATE** 03-14-16  
**DWG SIZE** A  
**SCALE** 1:30  
**SHEET** 1 OF 1

**MATERIAL**  
**PROJECT NO./NAME**  
**TITLE**  
18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL  
**DWG NO.** 7001-110-191  
**REV** E



3130 VERONA AVE  
BUFORD, GA 30518  
PHN (770) 932-2443  
FAX (770) 932-2490  
WWW.NYLOPLAST-US.COM



- GENERAL NOTES:**
- HORIZONTAL RPBA INSTALLATION REQUIRED.
  - ABOVE GRADE RPBA INSTALLATION REQUIRED.
  - WATER LINE PRESSURE AND TEMPERATURE MUST NOT EXCEED RATED CAPACITY OF RPBA.
  - PROTECT FROM FREEZING WITH POSITIVE HEAT SOURCE AND INSULATION.
  - MINIMUM RPBA SIZE MUST BE THE BUILDING SERVICE LINE SIZE.
  - DO NOT INSTALL IN FLOOD PRONE AREAS OR IN STORM RETENTION OR DETENTION BASINS.
  - INSTALL WATER HAMMER ARRESTORS & THERMO EXPANSION PROTECTION, AS NECESSARY.
  - METALLIC RISER PIPING REQUIRED.
  - JOINTS TO BE ADEQUATELY RESTRAINED.
  - DEVIATIONS FROM THESE SPECIFICATIONS MUST HAVE PRIOR WRITTEN APPROVAL FROM THE WATER AUTHORITY CROSS CONNECTION OFFICE.
  - THE INSTALLATION OF A BACKFLOW ASSEMBLY MAY CREATE A CLOSED LOOP SYSTEM. THE CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH CURRENT PLUMBING CODES WHICH MAY REQUIRE INSTALLATION OF (PRIVATE) PRESSURE RELIEF DEVICES AND/OR EXPANSION TANKS.

- CONSTRUCTION NOTES:**
- METER BOX PER STANDARD DRAWING 2362 OR 2363.
  - PROPERTY LINE.
  - SERVICE LINE WITHOUT TAPS OR TEES BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
  - ADEQUATE SLEEVE & INSULATION. INSULATION SHALL BE (AT MINIMUM) 1" THICK.
  - MINIMUM 4" CONCRETE (3000 PS) SLAB.
  - UNIONS OR FLANGED FITTINGS INSTALLED A MINIMUM OF 4" ABOVE GRADE.
  - 36" MAXIMUM, 12" MINIMUM (FROM LOWEST POINT OF ASSEMBLY TO TOP OF CONCRETE SLAB).
  - PROVIDE ADJUSTABLE METALLIC SUPPORTS ON UNITS 2.5" AND GREATER DIAMETER (TYPICAL).
  - USE APPROVED RPBA, AS SHOWN
  - PROTECTIVE ENCLOSURE, SEE STANDARD DRAWING 2389 FOR DESIGN CRITERIA.
  - DRAIN: SIZE DRAIN TO HANDLE FULL DISCHARGE OF RELIEF VALVE. DRAIN TO DAYLIGHT. SCREEN RECOMMENDED TO PREVENT RODENT AND INSECT ENTRY.
  - BUILDING SERVICE LINE.
  - RELIEF VALVE.

REVISIONS	WATER AUTHORITY
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RPBA) DWG. 2385 JANUARY 2011

PROJECT TITLE

ISSUE NO.

DATE

DESCRIPTION

01/08/2024 PRE APPLICATION SUBMITTAL

03/08/2024 RPBA SUBMITTAL

03/20/2024 BID SET

04/24/2024 RPBA RESUBMITTAL

CERTIFICATION:

PROJECT NO.:

193806697

DWN BY:

CHKD BY:

APPD BY:

HKK JRA CMR

ISSUE DATE:

04/24/2024

ISSUE NO.:

3

SHEET TITLE:

DETAILS

SHEET NO.:

C-809

NOT FOR CONSTRUCTION

COLLEEN M. HANCOCK

16230

03/27/2024

PROFESSIONAL ENGINEER

NEW MEXICO

REGISTERED

16230

03/27/2024

PROFESSIONAL ENGINEER

NEW MEXICO

REGISTERED

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PROFESSIONAL ENGINEER

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REGISTERED

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03/27/2024

PROFESSIONAL ENGINEER

NEW MEXICO

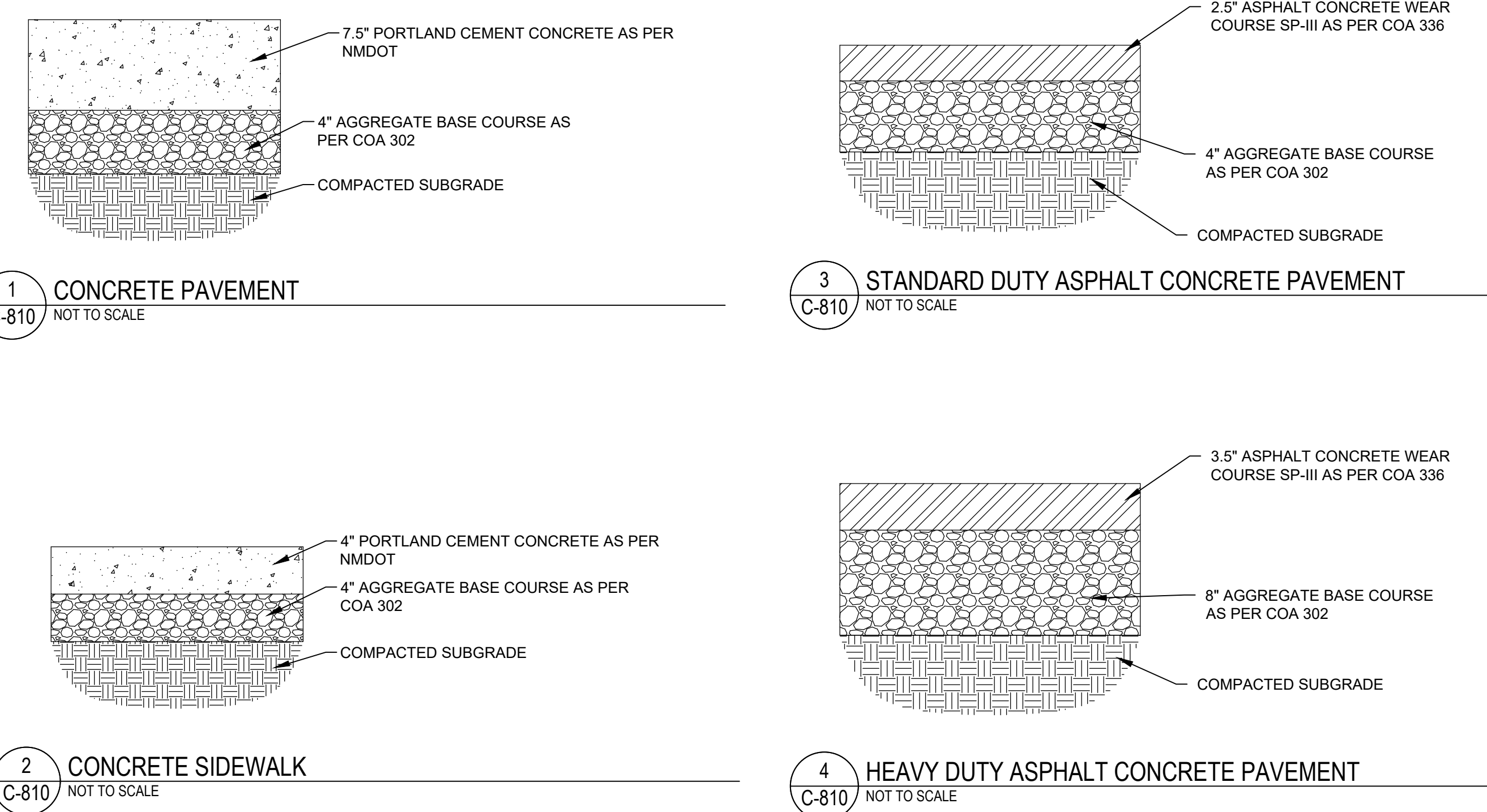
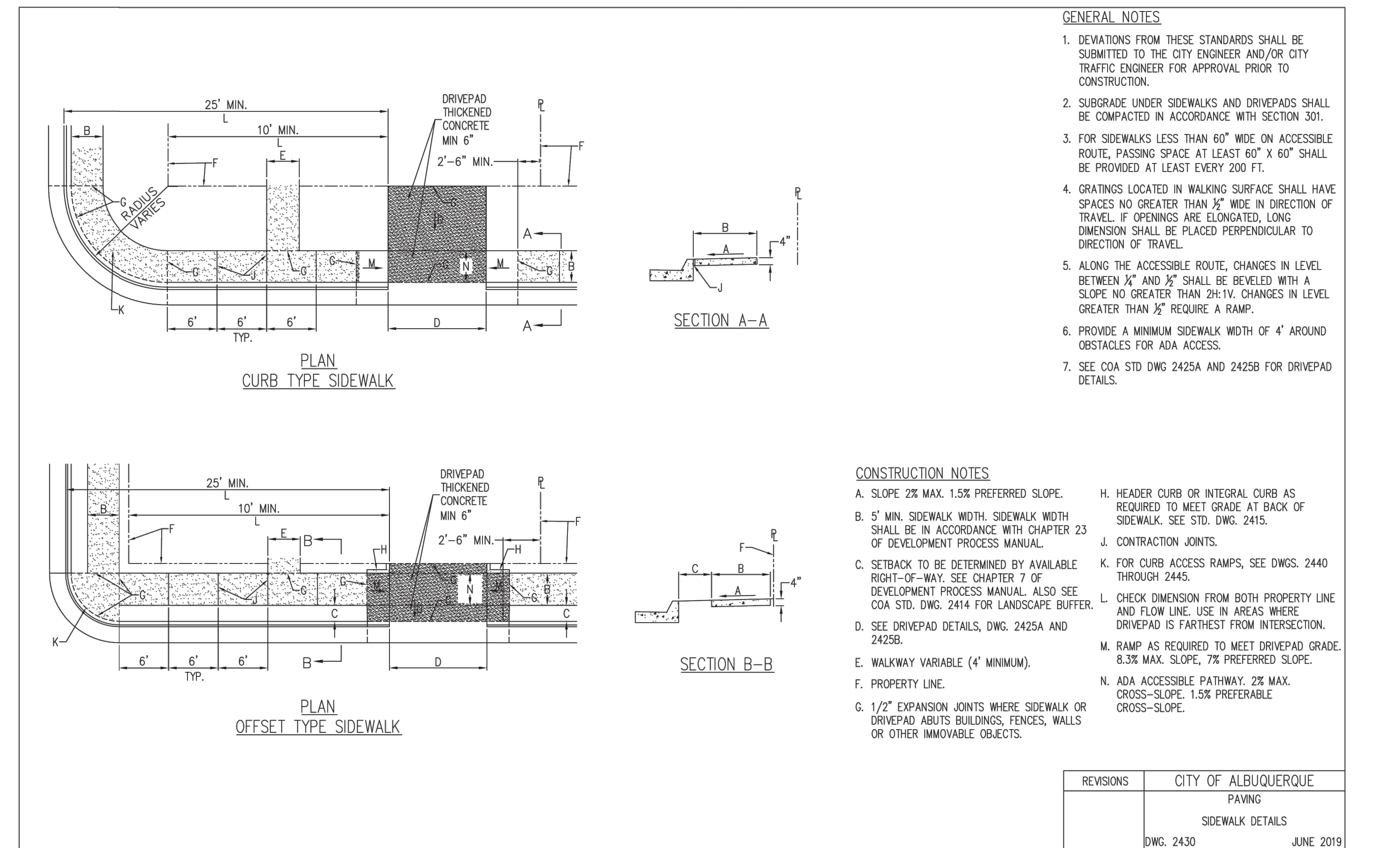
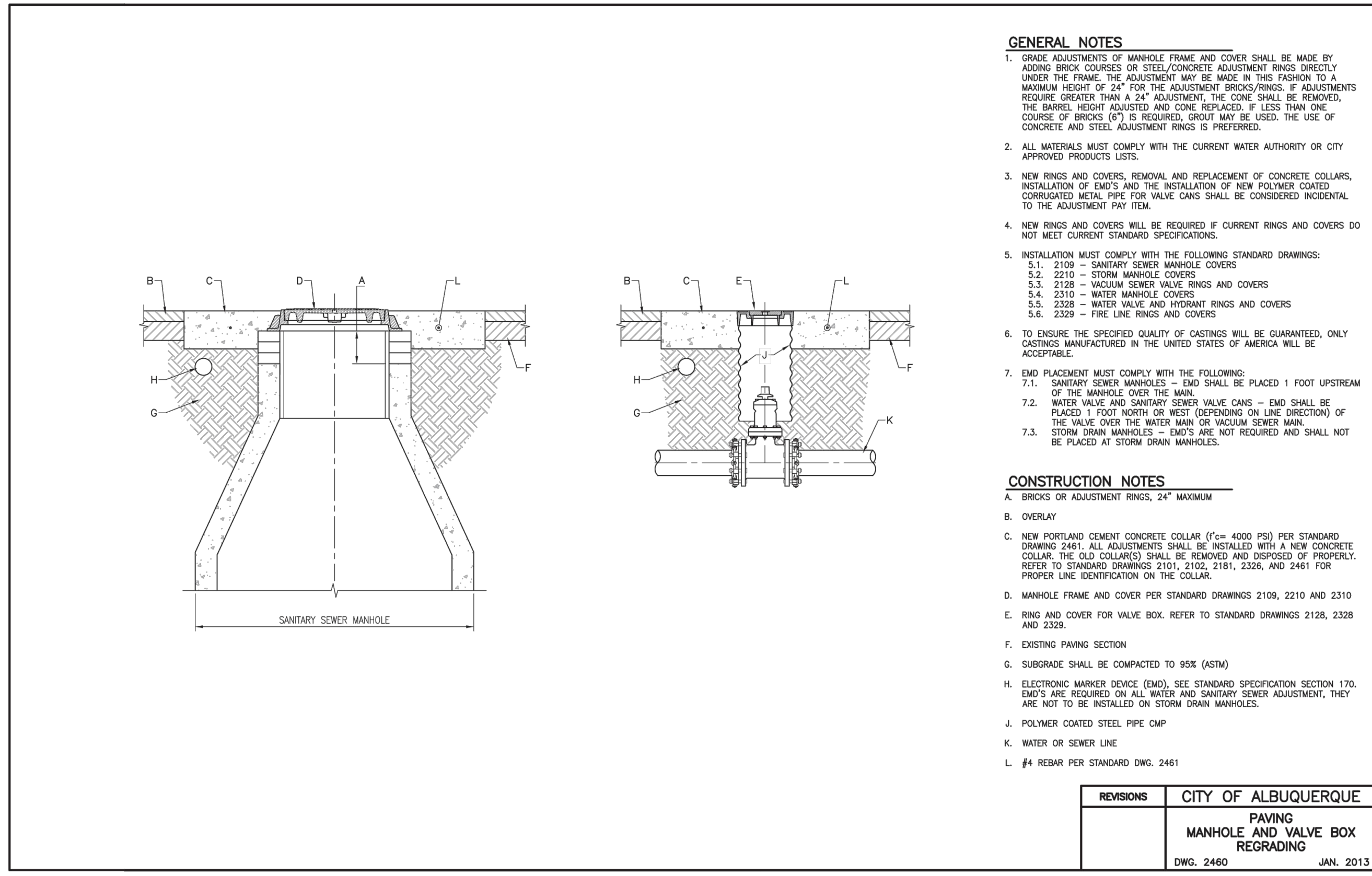
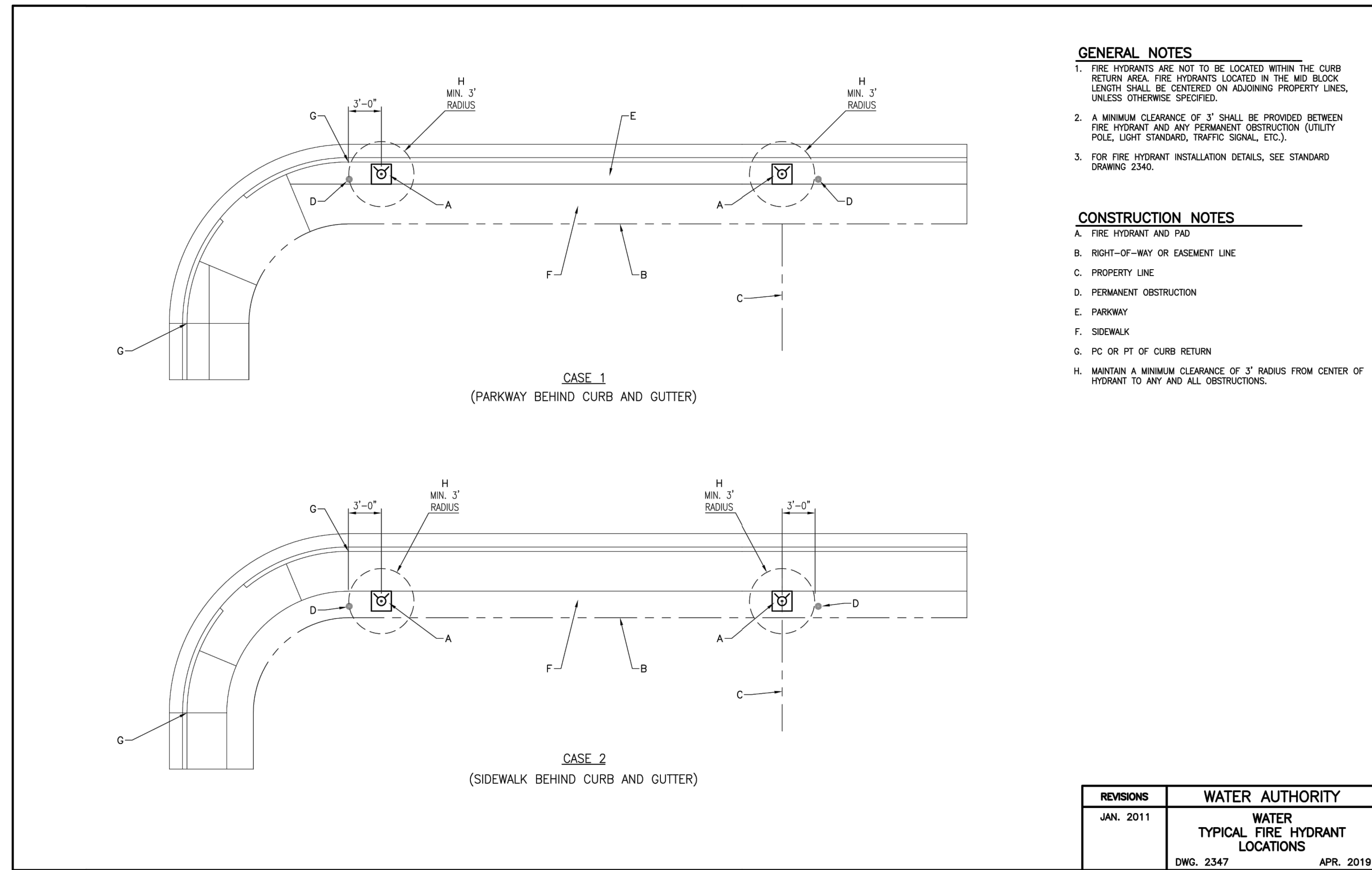
REGISTERED

16230

03/27/2024

PROFESSIONAL ENGINEER





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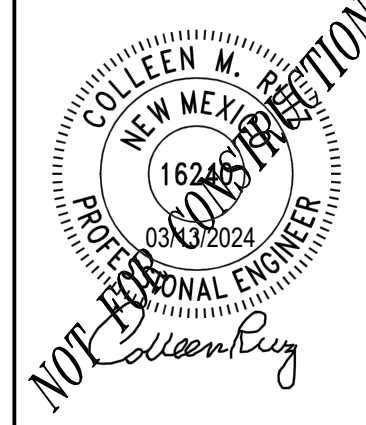
ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO:

DATE	DESCRIPTION
01/08/2024	PRE APPLICATION SUBMITTAL
03/08/2024	PRB SUBMITTAL
03/20/2024	RFB SET
04/24/2024	CRB RESUBMITTAL

CERTIFICATION:



PROJECT NO: 193806697

DWN BY: HKK  
CHKD BY: JRA  
APPD BY: CMR

ISSUE DATE: 04/24/2024

ISSUE NO: 3

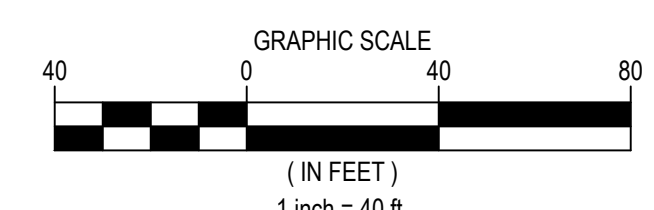
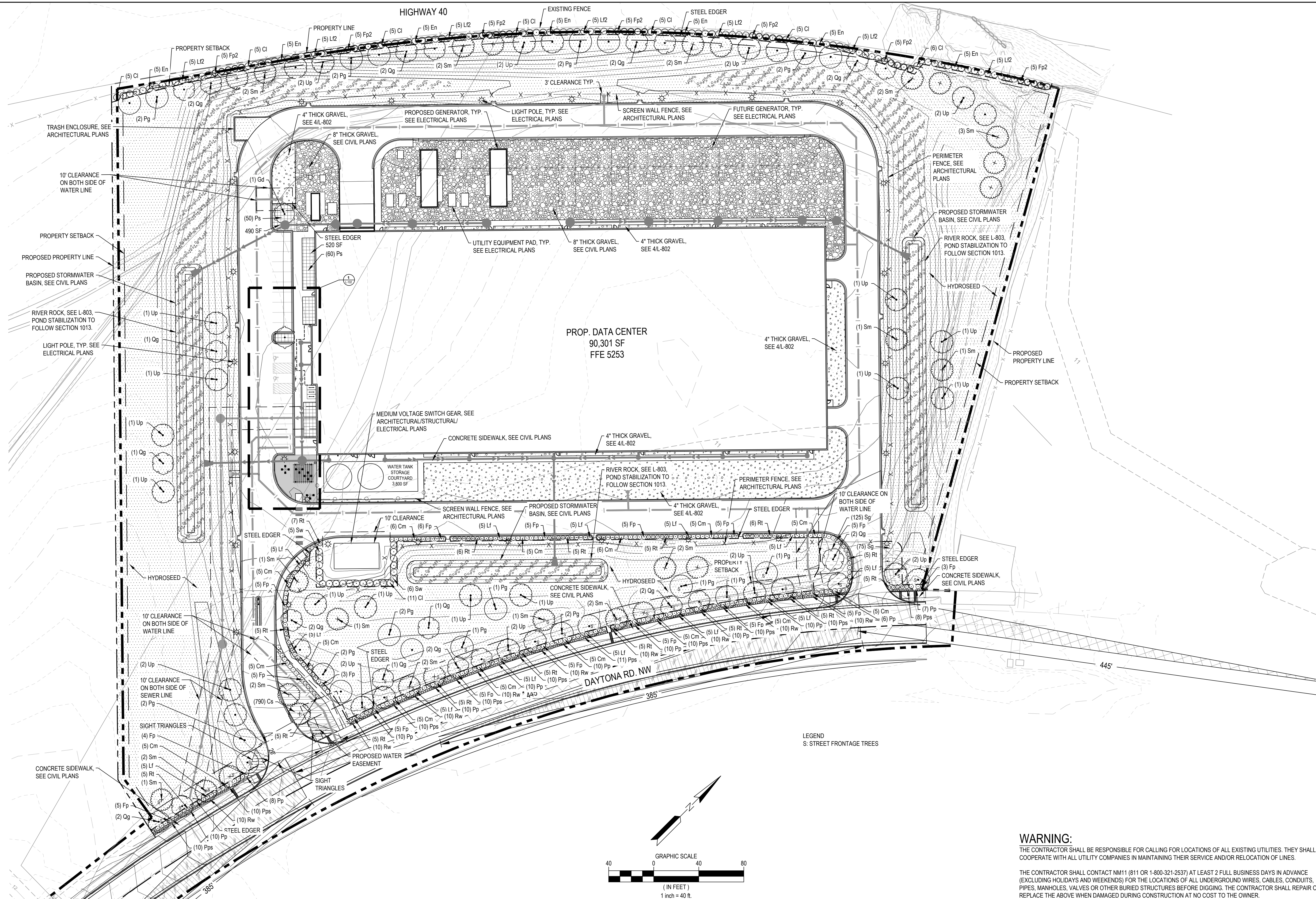
SHEET TITLE:  
DETAILS

SHEET NO:  
C-810



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**1 PLAN: OVERALL PLANTING PLAN**  
L-101 1 inch = 40 ft.

**WARNING:**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT NM11 (811 OR 1-800-321-2537) AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

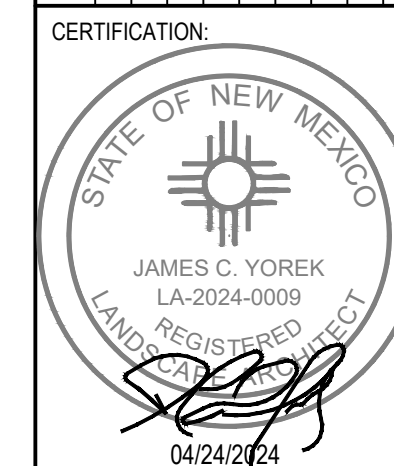


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DATA CENTER**  
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ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.	PROJECT TITLE
01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER
03/08/2024	PRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	DBR RESUBMITTAL	3	

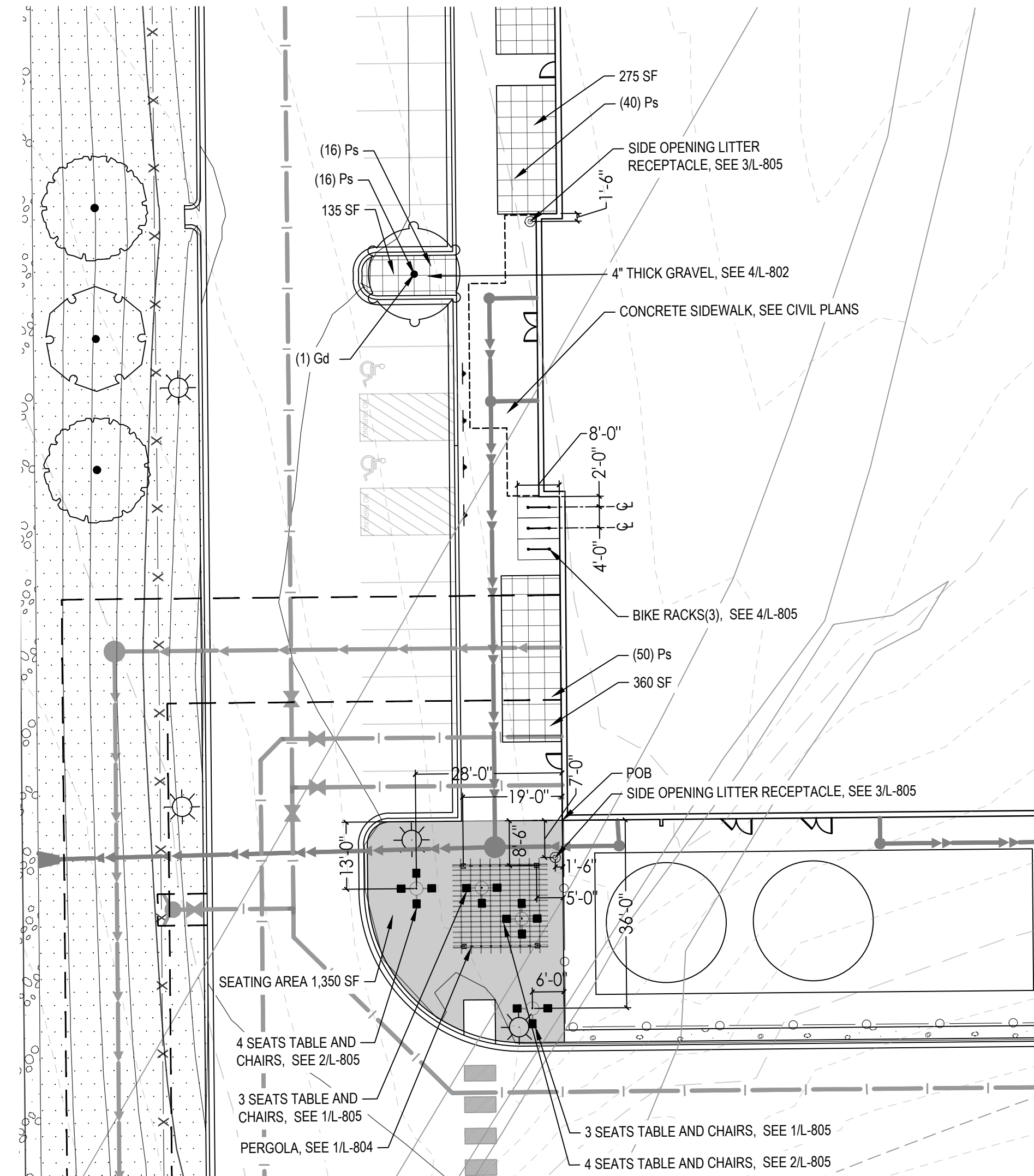


PROJECT NO.:	193806697
DWN BY:	SY
CHKD BY:	TH
APPD BY:	CY
ISSUE DATE:	04/24/2024
ISSUE NO.:	3
SHEET TITLE:	LANDSCAPE PLAN
SHEET NO.:	L-101

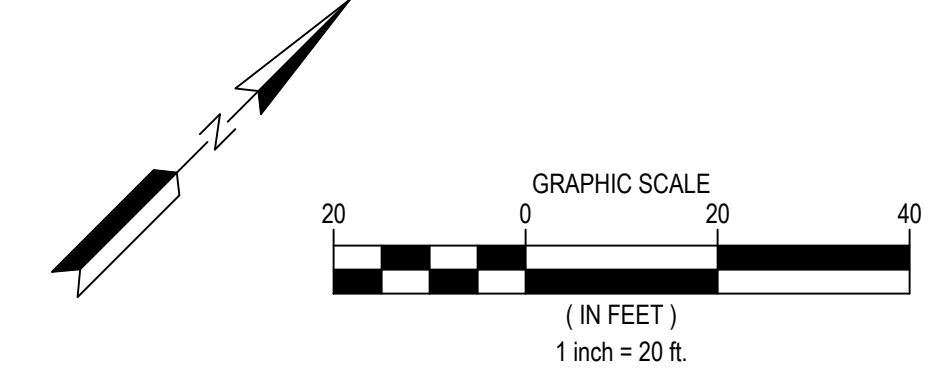


OVERALL PLANTS AND MATERIAL SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CALIPER	SPACING	AREA
	Gd	2	CHLOPSIS LINEARIS DESERT WILLOW	2" CAL	AS SHOWN ON PLAN	981 SF
	Pg	21	PROSOPIS GLANDULOSA HONEY MESQUITE	2" CAL	25' O.C.	15,543 SF
	Qg	22	QUERCUS GRISEA GRAY OAK	2" CAL	25' O.C.	16,250 SF
	Sm	27	SAMBUCUS MEXICANA MEXICAN ELDER	2" CAL	25' O.C.	13,738 SF
	Up	30	ULMUS PARVIFOLIA LACEBARK ELM	2" CAL	25' O.C.	38,936 SF
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING	AREA
	Ci	47	CERCOCARPUS LEDIFOLIUS CURLEAF MOUNTAIN MAHOGANY	8" - 10" HT.	72" O.C.	1,328 SF
	Cm	77	CHAMAEBATARIA MILLEFOLIUM FERNBUSH	1 GAL	60" O.C.	1,511 SF
	En	35	ERICAMERIA NAUSEOSA CHAMISA	5 GAL	72" O.C.	989 SF
	Fp	81	FALLUGIA PARADOXA APACHE PLUME	1 GAL	60" O.C.	1,590 SF
	Fp2	35	FALLUGIA PARADOXA APACHE PLUME	5 GAL	72" O.C.	989 SF
	Lf	65	LEUCOPHYLLUM FRUTESCENS TEXAS RANGER	1 GAL	60" O.C.	1,276 SF
	Lf2	35	LEUCOPHYLLUM FRUTESCENS TEXAS RANGER	5 GAL	72" O.C.	989 SF
	Pp	101	PENSTEMON PINIFOLIUS PINELEAF PENSTEMON	1 GAL	24" O.C.	317 SF
	Pps	99	PENSTEMON PSEUDOSPECTABILIS DESERT PENSTEMON	1 GAL	24" O.C.	311 SF
	Rt	84	RHUS TRILOBATA THREE-LEAF SUMAC	1 GAL	60" O.C.	1,649 SF
	Rw	90	ROSA WOODSII WOODS ROSE	1 GAL	24" O.C.	283 SF
	Sw	11	SPOROBOLUS WRIGHTII GIANT SACATON	5 GAL	72" O.C.	311 SF
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING	AREA
	Cs	786	CALYLOPHUS SPECIES SUNDROPS	1 GAL	18" O.C.	1,600 SF
	Ps	208	PENSTEMON PSEUDOSPECTABILIS DESERT BEARDTONGUE	1 GAL	36" O.C.	1,650 SF
	Sp	200	SALVIA GREGGII AUTUMN SAGE	1 GAL	36" O.C.	1,750 SF
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	REMARKS	
	Bd2	161,931 SF	NATIVE SEED	NA	SEE LANDSCAPE SEED SPEC	
	Gr	17,050 SF	GRAVEL	NA	4" THICK, BROWN COLOR	
	Gr2	29,820 SF	GRAVEL2	NA	8" THICK, BROWN COLOR	
	Rr	28,048 SF	RIVER ROCK	NA	3/4" IRONWOOD PEBBLE	



**1 PLAN: ENLARGEMENT PLANTING PLAN**  
1 inch = 20 ft.



**WARNING:**  
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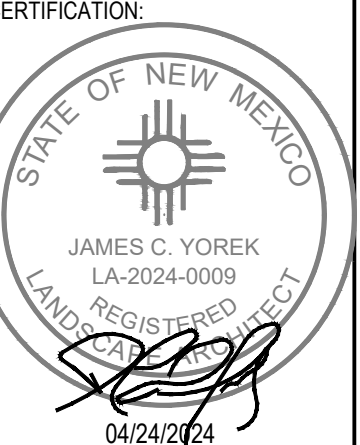


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ALBUQUERQUE, NEW MEXICO 87121

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01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	DRB SUBMITTAL	1
03/20/2024	BID SET	2
04/24/2024	DRB RESUBMITTAL	3



PROJECT NO.: 193806697  
DWN BY: SY    CHKD BY: TH    APP'D BY: CY  
ISSUE DATE: 04/24/2024  
ISSUE NO.: 3

SHEET TITLE:  
**ENLARGEMENT  
PLANTING PLAN**

SHEET NO.:  
**L-102**



## INSPECTION AND ACCEPTANCE

- LANDSCAPE WORK WILL BE INSPECTED FOR ACCEPTANCE IN PARTS AGREEABLE TO THE OWNER, PROVIDED WORK OFFERED FOR INSPECTION IS COMPLETE, INCLUDING MAINTENANCE, FOR THE PORTION IN QUESTION.
- AT THE CONCLUSION OF THE ESTABLISHMENT PERIOD, WHICH WILL BE ONE YEAR FOLLOWING INITIAL INSTALLATION, A FINAL INSPECTION OF PLANTING WILL BE MADE TO DETERMINE THE CONDITIONS OF AREAS SPECIFIED FOR LANDSCAPING.
- WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY OWNER AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM SITE.

## PLANTING NOTES

- CONTRACTOR SHALL PROVIDE STAKED LOCATION OF PLANT MATERIAL PRIOR TO PERFORMING ANY PLANT INSTALLATION WORK. UPON APPROVAL OF STAKING LOCATIONS, CONTRACTOR SHALL EXCAVATE PLANTING HOLES CENTERED AT STAKED LOCATIONS.
- PERFORM PLANT HOLE EXCAVATION AS DETAILED AND TO A DIAMETER A MINIMUM OF TWO TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER.
- REMOVE STICKS, RUBBISH, FOREIGN MATERIALS AND UNDESIRABLE PLANTS AND THEIR ROOTS. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSIONS.
- SET BALLED AND BURLAPPED (B&B) STOCK ON LAYER OF COMPACTED PLANTING SOIL MIXTURE, B&B SHALL BE PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ALL EXCAVATED EDGES AT SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES.
- ROOT FLARE OF THE TREE MUST BE ABOVE FINISHED GRADE PER DETAILS.
- CUT ALL CORDS AND TWINE AND REMOVE WIRE BASKET AND BURLAP FROM TOP AND SIDES OF BALLS; RETAIN BURLAP ON BOTTOMS.
- WHEN SET, PLACE ADDITIONAL PLANTING SOIL BACKFILL AROUND BASE AND SIDES OF BALL, AND WORK EACH LAYER TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS.
- WHEN EXCAVATION IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL.
- REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- FOR CONTAINER GROWN STOCK, SAME AS FOR BALLED AND BURLAPPED STOCK, EXCEPT CUT CONTAINERS ON SIDES INTO QUARTERS WITH SHARP. REMOVE CONTAINER BEFORE SETTING PLANT SO AS NOT TO DAMAGE ROOT BALLS.
- WATER EACH PLANT WITHIN 2 HOURS OF PLANTING.
- ALL PLANTINGS TO BE MULCHED UNLESS OTHERWISE NOTED ON THE PLAN.
- PLACE 3-INCH THICKNESS OF MULCH AROUND TREES AND SHRUBS WITHIN A PERIOD OF 48 HOURS AFTER THE SECOND WATERING.
- DO NOT PLACE MULCH IN DIRECT CONTACT WITH TRUNKS OR STEMS.
- ROCK MULCH BEDS SHALL RECEIVE 4" DEPTH MIN. LOCALLY AVAILABLE ¾" IRONWOOD PEBBLE ROCK MULCH, OR APPROVED EQUAL, OVER NEEDLE PUNCHED POLYPROPYLENE WEED BARRIER FABRIC, WITHIN GENERATOR COURTYARD AREA, ROCK MULCH BEDS SHALL RECEIVE 8" DEPTH MIN. SEE CIVIL PLANS. SUBMIT MULCH SAMPLE FOR OWNER APPROVAL.
- NEEDLE PUNCHED POLYPROPYLENE WEED BARRIER FABRIC UNDER FABRIC ENDS SHALL BE OVERLAPPED 3 INCHES, MINIMUM 4 OUNC. EDGES OF FABRIC SHALL BE TURNED DOWN 6 INCHES. EDGE RESTRAINT BETWEEN PLANTING BEDS AND SEEDING AREAS SHALL BE BLACK COMMERCIAL GRADE LANDSCAPE EDGING BY COL-MET OR APPROVED EQUAL, 6"X12 GAUGE STEEL.

## MAINTENANCE NOTES

- WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY OWNER AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM SITE. BEGIN MAINTENANCE IMMEDIATELY AFTING WATERING.
- MAINTAIN TREES AND BUSHES INCLUDING WATERING FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. IT IS CONTRACTORS RESPONSIBILITY FOR COORDINATE WATERING.
- TRIM, PRUNE, REMOVE CLIPPINGS AND DEAD OR BROKEN BRANCHES, AND TREAT PRUNED AREAS AND OTHER WOUNDS.
- IT IS THE CONTRACTOR'S OPTION WHETHER OR NOT TO STAKE TREES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TREES IN AN UPRIGHT POSITION THROUGHOUT THE ONE-YEAR GUARANTEE PERIOD.

## GUARANTEE AND REPLACEMENTS

- PLANT MATERIAL SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER OWNER ACCEPTANCE AND SHALL BE ALIVE AND IN SATISFACTORY CONDITION AT THE END OF THE GUARANTEE PERIOD. SUCH GUARANTEE EXCLUDES VANDALISM.
- AT THE END OF THE ONE-YEAR GUARANTEE PERIOD, INSPECTION WILL BE MADE BY THE OWNER UPON WRITTEN NOTICE BY THE CONTRACTOR AT LEAST FIVE DAYS BEFORE THE ANTICIPATED DATE. ANY PLANT MATERIAL REQUIRED UNDER THE CONTRACT THAT IS DEAD OR NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE, AND SHALL BE REPLACED AS SOON AS CONDITIONS PERMIT DURING THE NORMAL PLANTING SEASONS.
- THE OPINION OF THE OWNER SHALL GOVERN IN ANY AND ALL DISPUTES BY THE CONTRACTOR REGARDING THE CONDITION AND DISPOSITION OF UNSATISFACTORY MAINTENANCE PROCEDURES OR REJECTED PLANTS.
- ALL REPLACEMENTS SHALL BE PLANT MATERIAL OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. REPLACEMENT COSTS SHALL BE BORNE BY THE CONTRACTOR.
- REPLACEMENT PLANTINGS REQUIRED AT THE END OF THE GUARANTEE PERIOD ARE NOT TO BE GUARANTEED. THE PLANT MATERIAL IS SUBJECT TO INSPECTION AND REJECTION BY THE OWNER BEFORE AND AFTER PLANTING.

## CODES AND INSPECTION

- THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES AND WITH THE ESTABLISHED CODES ALLOCABLE THERETO.
- THE CONTRACTOR SHALL TAKE OUT ALL REQUIRED PERMITS, ARRANGE FOR ALL NECESSARY INSPECTION, AND PAY ANY FEES AND EXPENSES IN CONJUNCTION WITH THE SAME AS PART OF THE WORK UNDER THIS CONTRACT.

## QUALITY ASSURANCE

- ALL WORK AND MATERIALS TO BE IN FULL ACCORDANCE WITH LATEST RULES AND REGULATIONS OF THE DIVISION OF INDUSTRIAL SAFETY, THE UNIFORM PLUMBING CODE, NATIONAL ELECTRIC CODE, AMERICANS WITH DISABILITIES, AND OTHER APPLICABLE LAWS OR REGULATION.
- NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR AS REQUIRED TO COMPLY WITH THESE RULES AND REGULATIONS, THOUGH THE WORK IS NOT MENTIONED IN THESE PARTICULAR CONSTRUCTION DOCUMENTS.

## PROTECTION OF EXISTING CONDITIONS

- BECOME ACQUAINTED WITH ALL SITE CONDITIONS. LOCATE EXISTING UTILITIES AND EQUIPMENT TO REMAIN. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE DRAWINGS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY ENGINEER. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGES ARISING FROM OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN ON DRAWINGS.
- TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE CONDITIONS. REPAIR ANY DAMAGED ITEM TO ITS ORIGINAL CONDITION OR FURNISH AND INSTALL EQUIVALENT REPLACEMENT AT NO ADDITIONAL COST TO OWNER.

## COORDINATION

- SCHEDULE AND COORDINATE WORK WITH OTHER TRADES TO FACILITATE WORK AND AVOID CONFLICTS IN CONSTRUCTION SEQUENCE AND EQUIPMENT INSTALLATION.
- REVIEW ENTIRE PLAN SET AND COORDINATE WITH OTHER TRADES AS REQUIRED BY SEQUENCE OF CONSTRUCTION TO ENSURE PROVISION OF MAINLINE AND ELECTRICAL CONDUIT STUB-OUTS AT ALL REQUIRED LOCATIONS.

## LANDSCAPE NOTES

- TREES AND SHRUBS SHALL BE PROVIDED IN THE QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY AS CHOSEN BY THE OWNER/OWNER AS LISTED IN THE PLANT SCHEDULE.
- TREES AND SHRUBS SHALL BE HEALTHY, VIGOROUS STOCK, GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS.
- OWNER RETAINS THE RIGHT TO INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK.
- NURSERY STOCK SHALL BE DELIVERED DIRECTLY FROM NURSERY. HEEL IN IMMEDIATELY UPON DELIVERY IF NOT TO BE PLANTED WITHIN FOUR HOURS, COVERING WITH MOIST SOIL OR MULCH TO PROTECT FROM DRYING. STORE PLANTS IN SHADE AND PROTECT FROM WEATHER.
- PROTECTION FROM EXTREMES IN EXPOSURE AND ROUGH HANDLING SHALL BE PROVIDED FOR ALL PLANT MATERIALS DURING TRANSPORT AND STORAGE.
- THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO PLANTING SO THAT A MUTUALLY AGREEABLE TIME MAY BE ARRANGED FOR INSPECTION.
- LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS WITH STAKES CENTERED AT PROPOSED PLANTING LOCATIONS FOR APPROVAL BY OWNER.
- DO NOT START PLANTING WORK UNTIL LAYOUT IS APPROVED BY THE OWNER.
- THE LANDSCAPE CONTRACTOR MUST PROVE THE OPEN SUB-GRADE OF ALL PLANTING AREAS AFTER THEIR EXCAVATION IS CAPABLE OF INFILTRATING A MINIMUM REQUIREMENT OF 1/4-INCH OF WATER PER HOUR PRIOR TO INSTALLATION OF PLANT MATERIALS, TOPSOIL, IRRIGATION, WEED MAT, AND MULCH. PLANTING AREAS NOT CAPABLE OF MEETING THIS REQUIREMENT SHALL HAVE 4" DIAMETER X 48" DEPTH HOLES AUGURED EVERY 36" ON-CENTER AND FILLED WITH IDOT FREE-DRAINING COARSE FILTER AGGREGATE. RE-TEST SUB-GRADE PERCOLATION FOR COMPLIANCE TO INFILTRATION MINIMUM REQUIREMENT.
- ALL GRADED AREAS OF THE SITE THAT ARE DESIGNATED FOR SHRUBS, TREES AND PERENNIALS SHALL HAVE NO LESS THAN 12" OF IMPORTED TOP SOIL, MEETING IDOT CLASSIFICATIONS FOR PLANTING SOIL FOR TREES, SHRUBS, AND TURF.

## LANDSCAPING GENERAL NOTES

- ALL VEGETATION SHALL COMPLY WITH ARTICLE 9-12 AND PARTS 6-1-1 AND 6- 6-2 OF ROA 1994 (POLLEN CONTROL, WATER CONSERVATION LANDSCAPING AND WATER WASTE, AND STREET TREES) AND SECTION 4 OF THE ALBUQUERQUE BERNALILLO COUNTY WATER AUTHORITY (ABCWUA) LEGISLATION AND ORDINANCES (WATER WASTE REDUCTION ORDINANCE) AS APPLICABLE. PER 5-6(C)(4)(g).
- ALL REQUIRED PLANT MATERIALS SHALL BE FREE OF DISEASE AND INSECTS AND SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ASNA) OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. PER 5-6(C)(4)(h).
- ALL VEGETATED MATERIAL REQUIRED BY THIS SECTION 14-16-5-6 SHALL BE PLANTED IN UNCOMPACTED SOIL. PER 5-6(C)(5)(b).
- IF USED, WEED BARRIERS SHALL BE PERMEABLE TO OPTIMIZE STORMWATER INFILTRATION AND PREVENT RUNOFF. PER 5-6(C)(5)(b).
- A MINIMUM OF 2 INCHES OF ORGANIC MULCH IS REQUIRED IN ALL PLANTING AREAS, WITH 3-4 INCHES RECOMMENDED. PER 5-6(C)(5)(d).

## PLANTING IN/OVER THE PUBLIC RIGHT-OF-WAY

- ALL PLANTING OF VEGETATED MATERIAL OR INSTALLATION OF ANY LANDSCAPING, BUFFERING, OR SCREENING MATERIAL IN THE PUBLIC RIGHT-OF WAY SHALL REQUIRE THE PRIOR APPROVAL OF THE CITY. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIRS, OR LIABILITY FOR ALL THE LANDSCAPING PLACED IN OR OVER THE PUBLIC RIGHT-OF WAY. PER 5-6(C)(9)(a).
- ANY TREES THAT OVERHANG A PUBLIC SIDEWALK OR MAJOR PUBLIC OPEN SPACE SHALL BE TRIMMED TO MAINTAIN AN 8-FOOT CLEARANCE OVER THE SIDEWALK. ANY TREES THAT OVERHANG A PUBLIC STREET SHALL BE TRIMMED TO MAINTAIN A 9-FOOT CLEARANCE OVER THE STREET SURFACE. PER 5-6(C)(9)(b).
- WHERE LANDSCAPING IS INSTALLED IN THE PUBLIC RIGHT-OF-WAY, THE APPLICANT SHALL INSTALL AN ADEQUATE IRRIGATION SYSTEM THAT MEETS THE MINIMUM TECHNICAL REQUIREMENTS IN ARTICLE 6-8 OF ROA 1994 (TREES, VEGETATION AND LANDSCAPING) AND THE DPM, WITH A SEPARATE METER FOR THE LANDSCAPE AREA IN THE PUBLIC RIGHT-OF-WAY, OR A SEPARATE VALVE(S) AT THE PROPERTY LINE ALLOWING ISOLATION OF THE IRRIGATION TO THE LANDSCAPE WITHIN THE PUBLIC RIGHT-OF-WAY. DRIP IRRIGATION SYSTEMS AND ARTIFICIAL TURF SHALL NOT BE ALLOWED WITHIN THE PUBLIC RIGHT-OF-WAY. PER 5-6(C)(9)(c).

## IRRIGATION SYSTEMS

- IRRIGATION SYSTEMS SHALL COMPLY WITH SECTION 8 OF THE ABCWUA LEGISLATION AND ORDINANCES (CROSS CONNECTION PREVENTION AND CONTROL ORDINANCE). PER 5-6(C)(14)(a).
- ALL IRRIGATION SYSTEMS SHALL BE DESIGNED TO MINIMIZE THE USE OF WATER. PER 5-6(C)(14)(b).
- ALL NON-RESIDENTIAL LANDSCAPE IRRIGATION SHALL HAVE AUTOMATIC TIMERS AND/OR PROGRAMMABLE SETTINGS TO AVOID OVERWATERING. PER 5-6(C)(14)(c).
- THE IRRIGATION SYSTEM SHALL NOT SPRAY OR IRRIGATE IMPERVIOUS SURFACES, INCLUDING SIDEWALKS, DRIVEWAYS, DRIVE AISLES, STREETS, AND PARKING AND LOADING AREAS. PER 5-6(C)(14)(d).

## INSTALLATION

- ANY DAMAGE TO UTILITY LINES RESULTING FROM THE NEGLIGENCE OF THE ABUTTING PROPERTY OWNER OR THE PROPERTY OWNER'S AGENTS OR EMPLOYEES IN THE INSTALLATION AND MAINTENANCE OF ANY LANDSCAPING, SCREENING, OR BUFFERING IN A PUBLIC RIGHT-OF-WAY, PRIVATE WAY, OR EASEMENT SHALL BE THE RESPONSIBILITY OF SUCH PROPERTY OWNER. ANY DAMAGE TO UTILITY LINES RESULTING FROM THE GROWTH OF PLANT MATERIALS THAT HAVE BEEN APPROVED BY THE APPLICABLE PUBLIC UTILITY AS PART OF A PLAN FOR LANDSCAPING, SCREENING, OR BUFFERING ON THE PUBLIC RIGHT OF WAY SHALL BE THE RESPONSIBILITY OF SUCH PUBLIC UTILITY. IF A PUBLIC UTILITY DISTURBS LANDSCAPING, SCREENING, OR BUFFERING IN A PUBLIC RIGHT-OF-WAY, PRIVATE WAY, OR EASEMENT, IT SHALL MAKE EVERY REASONABLE EFFORT TO PRESERVE THE LANDSCAPING MATERIALS AND RETURN THEM TO THEIR PRIOR LOCATIONS AFTER THE UTILITY WORK. IF THE PLANT MATERIALS DIE DESPITE THOSE EFFORTS, IT IS THE OBLIGATION OF THE ABUTTING PROPERTY OWNER TO REPLACE THE PLANT MATERIALS. PER 5-6(C)(15)(c).
- PROPERTY OWNERS ACKNOWLEDGE THAT APPROVED LANDSCAPING AND TREES INSTALLED AND MAINTAINED IN A PUBLIC RIGHT-OF-WAY, PRIVATE WAY, OR EASEMENT ABUTTING PRIVATE PROPERTIES ARE THE PROPERTY OF THE CITY, AND THAT THAT THE CITY RESERVES THE RIGHT TO REMOVE THEM IF NECESSARY FOR A TRANSPORTATION PROJECT WITHOUT COMPENSATION, BUT AT NO COST TO THE PROPERTY OWNER. LANDSCAPING INSTALLED IN AN ABUTTING PUBLIC RIGHT-OF-WAY, PRIVATE WAY, OR EASEMENT BY PROPERTY OWNERS AND LATER REMOVED BY THE CITY SHALL NOT IMPACT PREVIOUSLY APPROVED NET LOT AREA CALCULATIONS FOR REQUIRED LANDSCAPING. PER 5-6(C)(15)(d).

## IRRIGATION CONTRACTORS RESPONSIBILITY

THE IRRIGATION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED FOR THE LANDSCAPE IMPROVEMENTS.
- AUTOMATIC CONTROL VALVES SHALL BE RAIN BIRD OR PLASTIC BODY AUTOMATIC VALVE OR AS APPROVED BY THE CITY DEPARTMENT RESPONSIBLE FOR MAINTENANCE.
- ALL VALVES SHALL BE INSTALLED IN VALVE BOXES PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CITY STANDARD SPECIFICATIONS).
- VALVE BOXES SHALL BE LOCATED SO EDGE OF VALVE BOX IS MINIMUM TWO FEET FROM THE EDGE OF THE MATURE SPREAD OF A SHRUB AND MINIMUM SIX FEET FROM THE EDGE OF A TREE ROOT BALL.
- VALVE BOXES AND LIDS SHALL BE TAN COLOR.
- A MINIMUM OF 36 INCHES SHALL BE PROVIDED BETWEEN ADJACENT VALVE BOXES.
- IRRIGATION SYSTEM SHALL BE A BUBBLER SYSTEM, DRIP AND/OR SPRAY IRRIGATION IS NOT ACCEPTABLE. BUBBLERS SHALL BE PROVIDED AS FOLLOWS:
  - TREE: 3 EACH 1.0 GALLON PER MINUTE (GPM) BUBBLERS
  - VERTICAL SHRUB: 2 EACH 0.5 GPM BUBBLERS
  - SHRUB: 1 EACH 0.5 GPM BUBBLER
  - YUCCA AND OTHER VERY LOW WATER-USE SHRUBS: 1 EACH 0.25 BUBBLER
- BUBBLERS SHALL BE LOCATED 3 FEET FROM THE CENTER OF THE TREE TRUNK, TRIANGULATED AROUND THE ROOT BALL
  - WHERE A TREE IS LOCATED ON A SLOPE, TWO (2) OF THE BUBBLERS SHALL BE LOCATED ON THE HIGH SIDE OF THE TREE.
  - IF A LANDSCAPED AREA IS TOO NARROW TO TRIANGULATE 3 BUBBLERS AROUND THE ROOT BALL, TWO (2) BUBBLERS SHALL BE INSTALLED, ONE ON EACH SIDE OF THE ROOT WHERE A TREE IS LOCATED ON A SLOPE. THE 2 BUBBLERS SHALL BE LOCATED ON THE HIGH SIDE OF THE TREE.
- BUBBLERS SHALL BE LOCATED 12 INCHES TO 18 INCHES FROM THE CENTER OF THE WHERE A SHRUB IS LOCATED ON A SLOPE. BUBBLERS SHALL BE LOCATED ON THE HIGH SIDE OF THE SHRUB.
- WHERE THERE ARE SIGNIFICANT CHANGES IN ELEVATION, IN-LINE CHECK VALVES SHALL BE INSTALLED ON LATERAL LINES AS REQUIRED TO EVENLY DISTRIBUTE LOW HEAD DRAINAGE.
- AN AIR RELIEF VALVE SHALL BE INSTALLED AT EACH HIGH POINT ON THE MAIN LINE.
- THE IRRIGATION SYSTEM SHALL BE INDEPENDENT OF OTHER PROPERTIES AND SHALL HAVE DEDICATED UTILITIES. IRRIGATION SYSTEM SHALL CONNECT TO A PUBLIC WATER SYSTEM NON-POTABLE LINE IF AVAILABLE AND IF RELIABLY CHARGED.
- THE IRRIGATION SYSTEM SHALL HAVE A CROSS CONNECTION DEVICE, INSTALLED AND LOCATED IN ACCORDANCE WITH CITY AND ABCVUA STANDARDS.
- BACKFLOW PREVENTER ENCLOSURE SHALL BE A "HOT ROX" OR EQUALLY INSULATED ENCLOSURE, WITH HEAT TAP AND ELECTRICAL POWER, HINGED LID, CLASP FOR LOCK, AND L-SHAPED METAL CLASP REINFORCEMENT. BACKFLOW PREVENTER AND ENCLOSURE SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
- IRRIGATION CONTROLLER SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS AND AS APPROVED BY THE CITY DEPARTMENT RESPONSIBLE FOR MAINTENANCE.
- IRRIGATION CONTROLLER SHALL BE INSTALLED IN A UL-RATED ENCLOSURE PER CITY STANDARD SPECIFICATIONS OR AS APPROVED BY THE CITY DEPARTMENT RESPONSIBLE LAST PRINTED: SEPTEMBER 4, 2020 LANDSCAPE AND IRRIGATION 11-5 D M FOR MAINTENANCE. ENCLOSURE SHALL BE POWDER COATED, COLOR TAN. ENCLOSURE SHALL BE MOUNTED ON A 6 INCHES THICK SLAB OF CONCRETE WITH 4 INCHES WIDE LIP ON ALL SIDES. SLOPED AWAY FROM THE CONTROLLER ENCLOSURE.
- A MASTER VALVE AND FLOW SENSOR SHALL BE PROVIDED AND INSTALLED PER CITY STANDARD SPECIFICATIONS. COMMUNICATION WIRE FOR THE FLOW SENSOR SHALL BE BLACK COMMUNICATION CABLE (WITH INTERNAL CONTROL WIRE AND GROUND) DEDICATED TO THE FLOW SENSOR.
- ELECTRIC SERVICE SHALL BE PROVIDED TO THE IRRIGATION CONTROLLER AND BACKFLOW PREVENTER OR AS APPROVED BY THE CITY DEPARTMENT RESPONSIBLE FOR MAINTENANCE.
- THE IRRIGATION CONTROLLER, BACKFLOW PREVENTER, AND RELATED EQUIPMENT SHALL BE LOCATED ADJACENT TO THE DESIGNATED MAINTENANCE PARKING PAD ON THE SIDE OF ONCOMING TRAFFIC.
- MAIN LINE AND LATERAL LINES SHALL BE LOCATED A MINIMUM OF 5 FEET AWAY FROM TRUNKS OF TREES.
- ONE BUBBLER SHALL BE INSTALLED AT EACH GROUNDING ROD AT THE IRRIGATION CONTROLLER.

## LANDSCAPE REQUIREMENTS

A. GENERAL LANDSCAPE REQUIREMENT: Part 14-16-5 Development Standards, 5-6(C)			
NET LOT AREA(SF)	PERCENTAGE OF COVERAGE	REQUIRED LANDSCAPE AREA(SF)	PROPOSED LANDSCAPE AREA(SF)
437,408	15%	65,611	
			TREES 85,447 25.11%
			SHRUBS 11,542 3.39%
			GROUNDCOVER (PLANTING MATERIAL) 5,000 1.47%
			GROUNDCOVER (GRAVEL OR CRUSHER) 74,918 22.02%
			SEED 162,000 47.61%
			OUTDOOR SEATING AREA 1,350 0.40%
			<b>TOTAL 340,257 100%</b>
REQUIRED LANDSCAPE AREA(SF)	PERCENTAGE OF COVERAGE*	REQUIRED VEGETATIVE COVERAGE AREA(SF)	PROPOSED VEGETATIVE COVERAGE AREA(SF)
65,611	75%	55,772	101,989
PROPOSED VEGETATIVE COVERAGE AREA(SF)	PERCENTAGE OF COVERAGE**	REQUIRED GROUND-LEVEL PLANTS AREA(SF)	PROPOSED GROUND-LEVEL PLANTS AREA(SF)
55,772	25%	13,943	16,542
PROPOSED TREE SPECIES	QUANTITY	AREA (SF)	WATER USE
DESERT WILLOW	2	981	LOW TO MEDIUM
HONEY MESQUITE	22	15,543	LOW
GRAY OAK	23	16,250	LOW TO MEDIUM
MEXICAN ELDER	28	13,738	LOW TO MEDIUM
LACEBARK ELM	31	38,936	LOW TO MEDIUM
<b>TOTAL QUANTITY AND COVERAGE AREA</b>	<b>106</b>	<b>85,447</b>	
PROPOSED SHRUBS SPECIES	QUANTITY	AREA (SF)	WATER USE
CURLLEAF MOUNTAIN MAHOG	47	1,328	LOW
FERNBUSH	77	1,511	LOW
CHAMISA	35	989	LOW
APACHE PLUME (1 GAL)	81	1,590	LOW
APACHE PLUME (5 GAL)	35	989	LOW
TEXAS RANGER (1 GAL)	65	1,276	LOW
TEXAS RANGER (5 GAL)	35	989	LOW
PINELEAF PENSTEMON	101	317	LOW
DESERT PENSTEMON	99	311	LOW
THREE-LEAF SUMAC	84	1,649	LOW
WOODS' ROSE	90	283	LOW
GIANT SACATON	11	311	LOW
<b>TOTAL QUANTITY AND COVERAGE AREA</b>	<b>760</b>	<b>11,542</b>	
PROPOSED GROUNDCOVER SPECIES	QUANTITY	AREA (SF)	WATER USE
SUNDRIPS	738	1,600	LOW
DESERT BEARDTONGUE	208	1,650	LOW
AUTUMN SAGE	200	1,750	LOW
<b>TOTAL QUANTITY AND COVERAGE AREA</b>	<b>1146</b>	<b>5,000</b>	

5-6(C)(2)  
 A minimum of 15 percent of the net lot area of each development shall contain landscaping.  
 The mature realistic spread of trees and shrubs will be used to calculate required vegetative coverage as follows.  
 \*1. Tree canopies and ground-level plants shall cover a minimum of 75 percent of the total landscape area as measured by canopy width or the area beneath the dripline of the mature size of the actual vegetation.  
 \*\*2. Of the required vegetative coverage, a minimum of 25 percent shall be provided as ground-level plants (shrubs, grasses, etc.) as measured of the mature size of the actual vegetation. (See figure below.)  
 5-6(C)(4) A minimum of 5 species must be used in the landscaped area.  
 Only trees and shrubs selected from the Official Albuquerque Plant Palette of low water use, drought tolerant, or xeric species and shown on a landscape plan can count toward the requirements of this Subsection 14-16-5-6(C) General Landscaping Standards.  
 5-6(C)(4) Required Plant Materials and Site Amenities  
 1. A minimum of 5 species must be used in the landscaped area.

B. STREET FRONTAGE LANDSCAPING REQUIREMENT: Part 14-16-5 Development Standards, 5-6(D)					
140 STREET FRONTAGE (L.F.), EXISTING INTERSTATE					
TREES REQUIRED:	853	/ 25 L.F. =	35		
EXISTING STREET TREES PROVIDED:			-		
PROPOSED TREE SPECIES	QTY.	CALIPER	PROPOSED SHRUB SPECIES	QTY.	CONTAINER
HONEY MESQUITE	8	2"	FERNBUSH	36	5 GAL.
GRAY OAK	8	2"	CHAMISA	35	5 GAL.
MEXICAN ELDER	11	2"	APACHE PLUME	35	5 GAL.
LACEBARK ELM	8	2"	TEXAS RANGER	35	5 GAL.
PROPOSED STREET TREES PROVIDED:			TOTAL SHRUBS PROVIDED:	141	
TOTAL STREET TREES PROVIDED:			35		
DAYTONA RD. NW STREET FRONTAGE (L.F.), PROPOSED MAJOR COLLECTOR					
TREES REQUIRED:	730	/ 25 L.F. =	30		
EXISTING STREET TREES PROVIDED:			-		
PROPOSED TREE SPECIES	QTY.	CALIPER	PROPOSED SHRUB SPECIES	QTY.	CONTAINER
HONEY MESQUITE	6	2"	FERNBUSH	34	1 GAL.
GRAY OAK	9	2"	APACHE PLUME	42	1 GAL.
MEXICAN ELDER	8	2"	TEXAS RANGER	30	1 GAL.
LACEBARK ELM	8	2"	PINELEAF PENSTEMON	101	1 GAL.
PROPOSED STREET TREES PROVIDED:			TOTAL SHRUBS PROVIDED:	436	
TOTAL STREET TREES PROVIDED:			31		
			31		

\*All development shall comply with Part 6-6-2 of RDA 1994 (Street Trees) and any standards developed by the Parks and Recreation Department or other City department to implement that Ordinance. Trees are generally required along street frontages every 25 feet on center unless specified otherwise in Part 6-6-2 of RDA 1994 (Street Trees). Along street frontages where street trees are required, trees that are planted within 20 feet of the back of the curbed abutting street may fulfill this requirement.

C. PARKING LOT LANDSCAPING: Part 14-16-5 Development Standards, 5-6(F)			
PARKING LOT AREA(SF)	REQUIRED RATE*	REQUIRED LANDSCAPE AREA(SF)	PROPOSED LANDSCAPE AREA(SF)
8670	10%	867	1500
PARKING SPACES	REQUIREMENT**	TREE REQUIRED	TREE PROVIDED
20	1 TREE PER 10 PARKING SPACES	2	2
TREE SPECIES	QTY.	DECIDUOUS CANOPY SHADE TREES(Y/N)	PERCENTAGE**
DESERT WILLOW	2	Y	100%
<b>PERCENTAGE OF DECIDUOUS CANOPY SHADE TREES PROVIDED</b>			
			100%
TREE REQUIRED FOR PARKING LOT	REQUIREMENT***	REQUIRED PLANTING AREA(SF)	PROPOSED PLANTING AREA(SF)
2	60 SF PER TREE	120	625

\*5-6(F)(2) Parking Lot Interior  
 At least 10 percent of the parking lot area of lots containing 50 or fewer spaces, and at least 15 percent of the parking lot area of lots containing 50 or more spaces, shall be landscaped.  
 \*\*5-6(F)(2)(c) Tree Requirements  
 1. One (1) tree is required per 10 parking spaces.  
 2. No parking space may be more than 100 feet in any direction from a tree trunk.  
 3. At least 75 percent of the required parking area trees shall be deciduous canopy-type shade trees, capable of achieving a mature canopy diameter of at least 25 feet.  
 \*\*\*5-6(F)(2)(d) Location and Dimension of Landscaped Areas  
 The minimum size of tree planters within off-street parking areas shall be 60 square feet per tree. This requirement may be reduced to 36 square feet if the surface of a parking or vehicle circulation area abutting the tree planter is of a permeable material and, combined with the tree planter area, meets the 60 square foot per tree requirement.

D. SCREENING LANDSCAPING: Part 14-16-5 Development Standards, 5-6(G)	
SCREENING REQUIREMENT	SCREENING PROVIDED
SCREENING WALL OR VEGETATIVE SCREEN	VEGETATIVE SCREEN FOR UTILITY

\*5-6(G)(2)(c) Screening  
 Where it is not practicable to locate ground-mounted mechanical equipment pursuant to Subsections (a) and (b) above, such equipment shall be screened from view by an opaque decorative wall or fence or a vegetative screen.  
 1. The wall or fence shall be of a height equal to or greater than the height of the mechanical equipment being screened and shall incorporate at least 1 of the primary materials and colors of the nearest wall of the primary building (but excluding exposed CMU block).  
 2. The vegetative screen shall be planted along the full length of the equipment to be screened and shall be of a height equal to or greater than the height of the equipment to be screened at the time of planting.



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PROJECT TITLE

ISSUE NO.:

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DESCRIPTION:

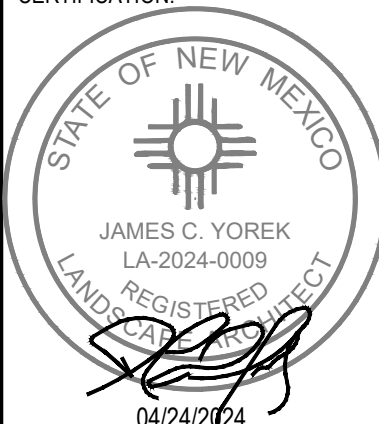
01/08/2024 PRE APPLICATION SUBMITTAL

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04/24/2024 DRB RESUBMITTAL

CERTIFICATION:



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DWN BY: SY CHKD BY: TH APPD BY: CY

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LANDSCAPE  
NOTES &  
REQUIREMENTS

SHEET NO.:



Interim Guideline SECTION 1013 SLOPE STABILIZATION AND SEEDING

1013.1 GENERAL 1013.1.1 SCOPE

Furnish all labor, materials and equipment necessary for preparation of seedbed, furnishing and installation of seed, erosion control measures, soil amendments, and related work specified herein and as indicated on plans or as authorized by the LANDSCAPE ARCHITECT or ENGINEER.

This specification shall apply to large ponding areas on sites where a landscape plan for building permit is not required, and all ponds that are greater than or equal to 2 acres in size.

Smaller water quality ponds shall incorporate Low Impact Development Strategies as described in the City of Albuquerque Development Process Manual (DPM). Treatments described in this specification may apply as Best Management Practices where deemed practicable by the LANDSCAPE ARCHITECT or ENGINEER.

1013.1.2 APPLICABLE STANDARDS & REFERENCES:

1013.1.2.1 Drawings and general provisions of the Contract, including City of Albuquerque Standard Specifications for Public Works Construction, Latest Edition. General Conditions and any Supplemental Special Provisions, apply to this Section.

1013.1.2.2 All seed shall be certified by state of origin. The certification authority for the state of New Mexico is the New Mexico Crop Improvement Association.

1013.1.2.3 Reclamation efforts are controlled by the requirements stipulated in the National Pollution Discharge Elimination System General Permit for Region VI of the Environmental Protection Agency.

1013.1.3 PERFORMANCE REQUIREMENTS

1013.1.3.1 The CONTRACTOR shall be responsible for protecting and caring for seeded areas until final acceptance of the work and shall repair at CONTRACTOR expense any damage to seeded areas caused by pedestrian, vehicular traffic, vandalism or other cause.

1013.1.4 SUBMITTALS

1013.1.4.1 THIS PUBLICATION - Section 1502 - Submittals

1013.1.4.2 Certification of Seed: From seed vendor for each mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging. Include state, origin and name and telephone number of supplier.

1013.1.4.3 Product Certificates: For organic amendments from manufacturer.

1013.1.4.5 Sources of supply, color, and size for aggregate mulch.

1013.4.6 Source of supply and product information for wood mulch.

1013.1.5 DELIVERY, STORAGE & HANDLING

1013.1.5.1 Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.

1013.1.5.2 Bulk Materials:

a. Do not dump or store bulk materials near fuel containers, herbicides, structures, utilities, walkways and pavements, or on existing turf areas or plants.

b. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.

c. Accompany each delivery of bulk materials with appropriate certificates.

1013.2 PRODUCTS

1013.2.1.1 Seed: The seed species and rate of application shall be as shown below and shall be used based on the type of soil or as specified on the plans or in the Supplemental Technical Specifications.

1013.2.1.2 Seed shall be fresh, re-cleaned seed of the latest crop, mixed in the proportions by weight, and be pure live seed as denoted within these specifications or per the plans.

1013.2.1.3 Seed shall be delivered to the site in the original unopened containers which shall bear the vendor's guarantee of analysis. Labeling of seed shall be in accordance with Federal Seed Laws and the New Mexico Department of Agriculture labeling laws. Federal seed laws require that analysis shall be no older than five months for seed shipped interstate and no older than nine months for seed shipped intra-state. Seeds may be pre-mixed by a seed dealer.

Documentation must be provided, the same as if the seeds were sold or bagged separately. The LANDSCAPE ARCHITECT or ENGINEER shall receive all labels from all bags of seed used for verification. For each species included in the mix the following information will be found on each bag tag:

- a. Variety - specify if certified. b. Kind of seed

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Interim Guideline SECTION 1013 SLOPE STABILIZATION AND SEEDING

1013.3 EXECUTION

1013.3.1 EXAMINATION

1013.3.1.1 Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.

a. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.

b. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.

c. Uniformly moisten excessively dry soil that is not workable or which is dusty.

1013.3.1.2 Proceed with installation only after unsatisfactory conditions have been corrected.

1013.3.1.3 If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by the LANDSCAPE ARCHITECT or ENGINEER and replace with new planting soil at no additional cost to the OWNER.

1013.3.2 PREPARATION

1013.3.2.1 Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by seeding operations.

a. Protect grade stakes set by others until directed to remove them.

1013.3.2.2 Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways. Reference project NEPA and/or SWPPP requirements if applicable.

1013.3.3 SEED BED PREPARATION

1013.3.3.1 Prior to the starting of any seed bed preparation the final grades of all earthwork shall be inspected and approved by the LANDSCAPE ARCHITECT or ENGINEER.

1013.3.3.2 No preparation shall be performed when the surface is wet or muddy or when the soil moisture content is such that the soil is not fully loosened by the disking operation.

1013.3.3.1. No preparation shall be performed when the ground is frozen or when air temperatures are below 32 degrees Fahrenheit.

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Interim Guideline SECTION 1013 SLOPE STABILIZATION AND SEEDING

c. Lot number

d. Purity

e. Germination

f. % of Crop seed, % inert, % noxious weed

g. Origin

h. Test date

i. Pounds of this species or percentage of total lot.

1013.2.1.4 Seed Mixture and Rate: Seed species mixtures and application rates shall be as follows and shall be used based on the soil type unless otherwise specified in the plans or Supplemental Technical Specifications.

a. Gravelly Uplands and Slopes (Mainly East Foothills): Seed rate is given in pounds of pure live seed (PLS) per acre. Mix shall include at least four of the wildflower species listed below at a total application rate of at least 2.0# PLS/AC.

Table with 3 columns: a. Gravelly Uplands & Slopes, #PLS/AC, Notes. Lists various plant species like Bouteloua gracilis, Oryzopsis hymenoides, etc.

Table with 3 columns: b. Sandy Soils, #PLS/AC, Notes. Lists species like Oenothera pallida, Hilaria jamesii, etc.

b. Sandy Soils (Mainly Westside Areas) Seed rate is given in pounds of pure live seed (PLS) per acre. Mix shall include at least four of the wildflower species listed below at a total application rate of at least 2.0# PLS/AC.

Table with 3 columns: b. Sandy Soils, #PLS/AC, Notes. Lists species like Hilaria jamesii, Oryzopsis hymenoides, etc.

1013 - 2

Interim Guideline SECTION 1013 SLOPE STABILIZATION AND SEEDING

c. No more area may be seeded than can be stabilized (i.e. covered with gravel mulch if on a slope) by the end of the work day. No seeding operations may be conducted when steady wind speeds exceed 15 mph. If steady winds exceed 15 mph, seeding operations will be halted and any areas seeded shall be mulched.

d. Weather Limitations: Proceed with seeding operations only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to this specification.

1013.3.5.2 Drill Seeding: Drill seeding is required for areas flatter than 3:1 unless otherwise specified in the plans or in the Supplemental Technical Specifications or approved in writing by the LANDSCAPE ARCHITECT or ENGINEER. Seed shall be applied with a landscape seeder with double rollers, or "rangeland" type seed drill equipped with packer wheels. Seed shall be drilled to a maximum depth of 1/2 inch unless otherwise specified. Direction of seeding shall be in long sweeping and overlapping S-curves on flats and perpendicular to slopes and on the contour whenever possible.

1013.3.5.3 Broadcast Seeding: Seed may be applied by hand or by utilizing a rotary spreader or a seeder box with a gear feed mechanism if mechanized seeding is not possible due to limited size, irregular shape, or slopes between 3:1 and 2:1. Rice hulls or other fillers shall be used to prevent uneven separation of lighter seed. Seed shall be evenly distributed and applied at a rate which is a minimum of twice that of drilled seed rate unless otherwise specified. Immediately following the seeding operation, the seed-bed shall be lightly raked to provide approximately 1/2 inch cover of soil over the seed.

1013.3.5.4 Hydro Seeding: Areas with slopes between 3:1 and 2:1 may be hydroseeded. Seed shall be applied in a slurry with biodegradable dye and 500 lbs/acre of wood fiber. Hydro-seeded shall be uniformly using broad sweeping strokes. Seed shall not remain in the tank for more than 30 minutes.

1013.3.7 MULCHING

1013.3.7.1 General: All seeded areas on slopes shall be mulched unless otherwise specified on the plans or in the Supplemental Technical Specifications or approved in writing by the LANDSCAPE ARCHITECT or ENGINEER. The pond bottom does not require mulching.

1013.3.7.2 On seeded areas that are level no mulch is required unless otherwise specified on the plans or in the Supplemental Technical Specifications or with prior written approval of the LANDSCAPE ARCHITECT or ENGINEER. On seeded areas that have slopes only gravel mulch may be used as specified on the plans and in the Supplemental Technical Specifications.

1013.3.7.6 Aggregate Mulch on sloped areas flatter than 3:1

a. Slopes shall receive aggregate mulch immediately following seeding operations. 1" - 4" size aggregate mulch shall be placed in a layer one rock deep over seeded areas. Aggregate mulch shall be installed at a density approximately equal to 80%-100% coverage of the surface area. Gaps present between pieces of aggregate are desired. Contractor shall not fill the inherent gaps with smaller graded aggregate. Seeding and mulching shall be completed simultaneously in strips from the top of the slope to the bottom so that seeded areas are not damaged by equipment for installation of aggregate. See sketch 1013-SKL-1.

1013.3.7.7 Aggregate mulch on sloped areas between 3:1 and 2:1

a. Slopes shall receive aggregate mulch immediately following seeding operations. 2" - 8" size aggregate mulch shall be placed in a layer one rock deep over seeded areas. Aggregate mulch shall be installed at a density approximately equal to 80%-100% coverage of the surface area. Gaps present between pieces of aggregate are desired. Contractor shall not fill the inherent gaps with smaller graded aggregate. Seeding and mulching shall be completed simultaneously in strips from the top of the slope to the bottom so that seeded areas are not damaged by equipment for installation of aggregate. See sketch 1013-SKL-2.

1013.3.7.8 Aggregate mulch at base of slope

a. An approximately 6"-0" buffer at the base of the slope shall receive a 4" depth of aggregate mulch over wood mulch. See sketches 1013-SKL-1 and 1013-SKL-2.

1013.3.7.9 Wood Mulch at base of slope at pond edges

a. Wood mulch at base of slope at pond edges shall be installed at a 3" depth under aggregate. See sketches 1013-SKL-1 and 1013-SKL-2.

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Interim Guideline SECTION 1013 SLOPE STABILIZATION AND SEEDING

Table with 3 columns: b. Sandy Soils, #PLS/AC, Notes. Lists species like Dalea purpurea var purpurea, Machaeranthera canescens, etc.

c. Clay, Clay Loam Soils: Mainly Valley & Bosque areas). Seed rate is given in pounds of pure live seed (PLS) per acre. Mix shall include at least four of the perennial wildflower species listed below at a total application rate of 2.0# PLS/AC.

Table with 3 columns: c. Clay, Clay Loam Soils, #PLS/AC, Notes. Lists species like Hilaria jamesii, Bouteloua curtipendula, etc.

Table with 3 columns: Machaeranthera canescens, Linum lewisii, Helianthus annuus, Sphaeralcea ambigua, Dalea purpurea var purpurea, Ratibida columnifera forma pulcherrima.

d. Specific seed mixture application areas shall be determined in the field with the LANDSCAPE ARCHITECT or ENGINEER prior to seed installation. Alternate seed mixes, variations of species, and variations of application rates are acceptable if noted on the plans or approved in writing by the LANDSCAPE ARCHITECT or ENGINEER. Variations in application rates due to the presence of irrigation are acceptable if noted on the plans or approved in writing by the LANDSCAPE ARCHITECT or ENGINEER.

1013.2.3 MULCHES

1013.2.3.1 Aggregate Mulch on slopes flatter than 3:1 a. Aggregate mulch shall be 1" to 4" size angular material. Pumice and black aggregate are not acceptable.

1013.2.3.2 Aggregate Mulch on slopes between 3:1 and 2:1 a. Aggregate mulch shall consist of 2" to 8" size angular material. Pumice and black aggregate are not acceptable.

1013.2.4 Aggregate Mulch at base of slope

a. Aggregate mulch at base of slope shall consist of 2" to 4" size angular material. Pumice and black aggregate are not acceptable.

1013.2.5 Wood mulch: Base of slope

a. Wood mulch installed under angular aggregate at base of slope shall be chipped or shredded and free of foreign materials (see materials supply guide from the City of Albuquerque). Individual pieces of wood shall vary in size.

1013.2.4 SOIL AMENDMENT

1013.2.4.1 Soil Amendments: The Contractor shall furnish and place composted mulch in all revegetation areas flatter than 3:1 slope (see materials supply guide from the City of Albuquerque).

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Interim Guideline SECTION 1013 SLOPE STABILIZATION AND SEEDING

1013.3.7.10 SUMMARY OF EXECUTION

Table with 5 columns: Operation, Basin Bottom, Base of Slope at ponding area, Slope flatter than 3:1, Slope between 3:1 and 2:1. Lists operations like Disk seed, Drill Seed, Hand Broadcast, etc.

1013.3.8 MAINTENANCE AND PROTECTION

1013.3.8.1 WARRANTY

1013.3.8.2 If at the end of one complete growing season, it has been determined by the LANDSCAPE ARCHITECT or ENGINEER that insufficient germination has occurred in the CONTRACTOR shall reseed such areas with no additional cost to the OWNER.

1013.3.8.3 CONTRACTOR shall provide a certificate to the OWNER prior to final acceptance that all requirements of this specification have been met.

1013.3.8.4 CONTRACTOR shall provide a certificate to the OWNER prior to final acceptance that all requirements of this specification have been met.

1013.3.12 REVIEWS AND OBSERVATIONS

1013.3.12.1 The following shall be the minimum required reviews and observations during the course of construction. Additional reviews and observations can be made at any time

at the discretion of the LANDSCAPE ARCHITECT or ENGINEER. It shall be the responsibility of the CONTRACTOR to notify the LANDSCAPE ARCHITECT or ENGINEER, in writing, 48 hours in advance of each required review or observation.

1013.3.12.2 The sequence of required reviews and observations shall not be changed from the sequence listed below. The CONTRACTOR shall not proceed with work of the next phase without written approval of the work of the previous phase by the LANDSCAPE ARCHITECT or ENGINEER. Payment will not be approved for items which have not been reviewed and approved in writing.

- a. Each phase of soil preparation shall be observed in process. b. Finish grade shall be reviewed. c. Implementation plan shall be approved prior to seeding. d. Seed shall be reviewed prior to seeding. e. Seeded area shall be reviewed after completion. f. Mulched areas shall be reviewed after completion. g. Final review and acceptance. h. Warranty review

1013.3.13 MEASUREMENT & PAYMENT

1013.3.13.1 Measurement: The measurement of grass seeding shall be by the acre.

1013.3.13.2 Payment: Payment shall be made at the contract unit price per acre, of seeding complete in place, which shall include the seed, area preparation, seeding, soil amendments, and mulching.

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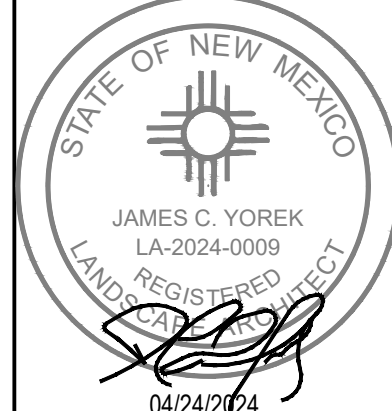
01/08/2024

03/08/2024

03/20/2024

04/24/2024

CERTIFICATION:



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DWN BY:

SY

CHKD BY:

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CY

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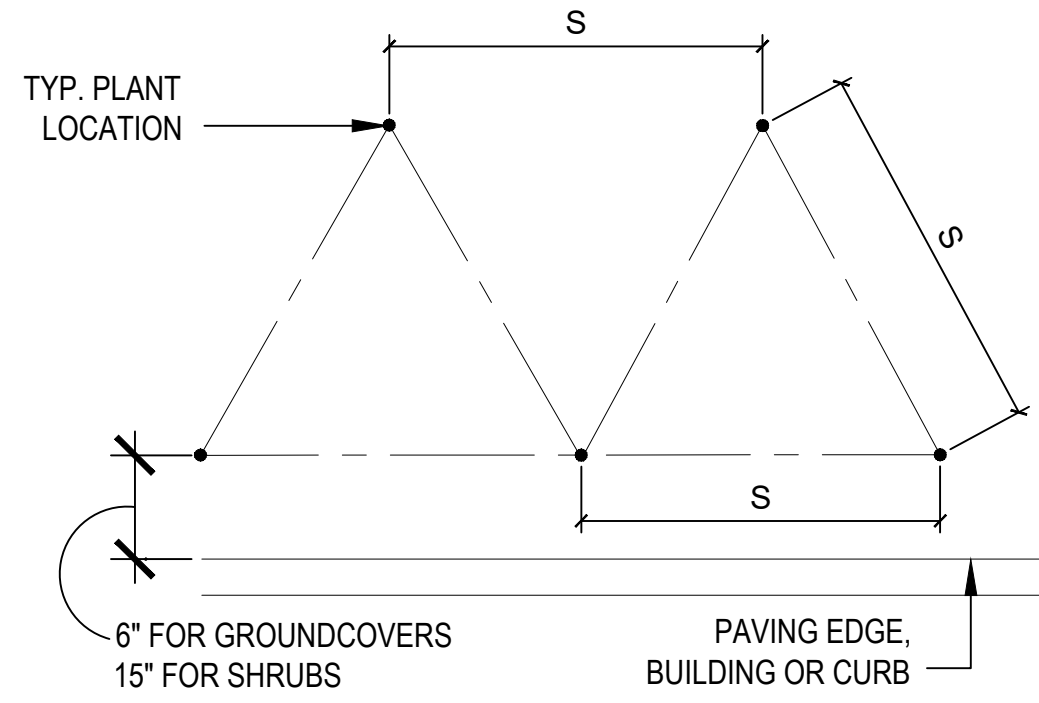
LANDSCAPE SEED SPECIFICATION

SHEET NO.:

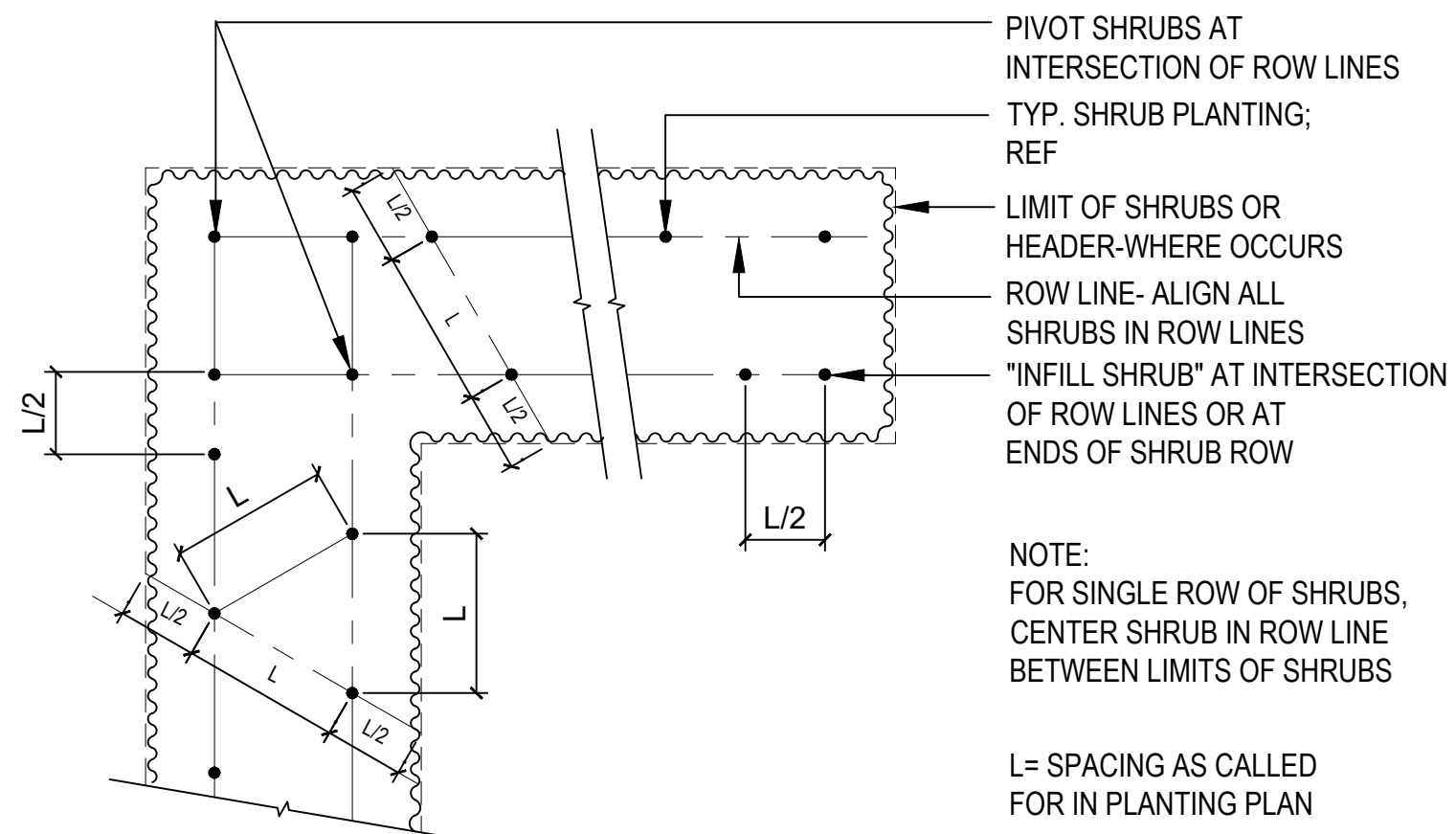
L-801



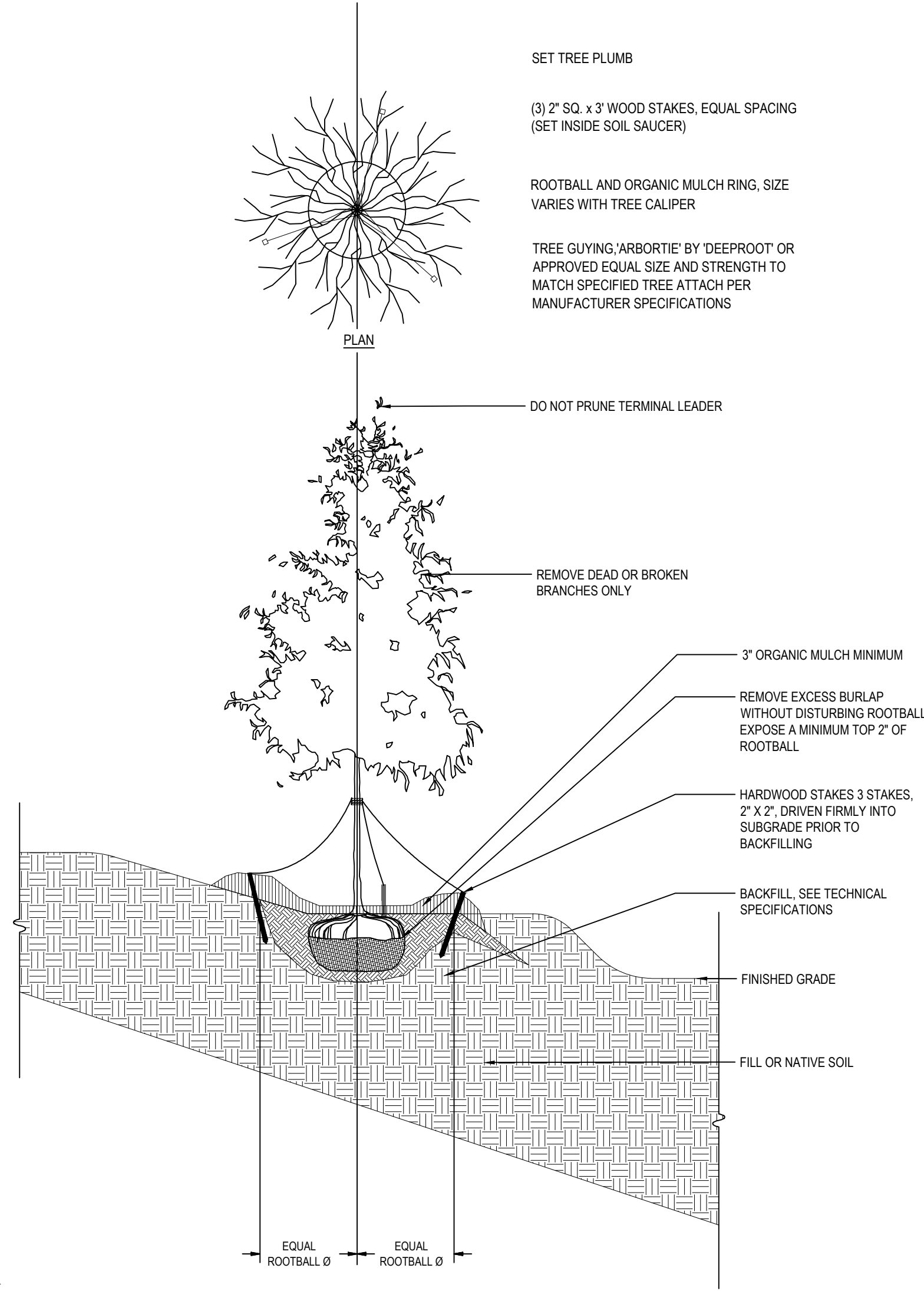
NOTE: DIMENSION 'S' DENOTES PLANT SPACING AS CALLED OUT ON PLANT LIST.



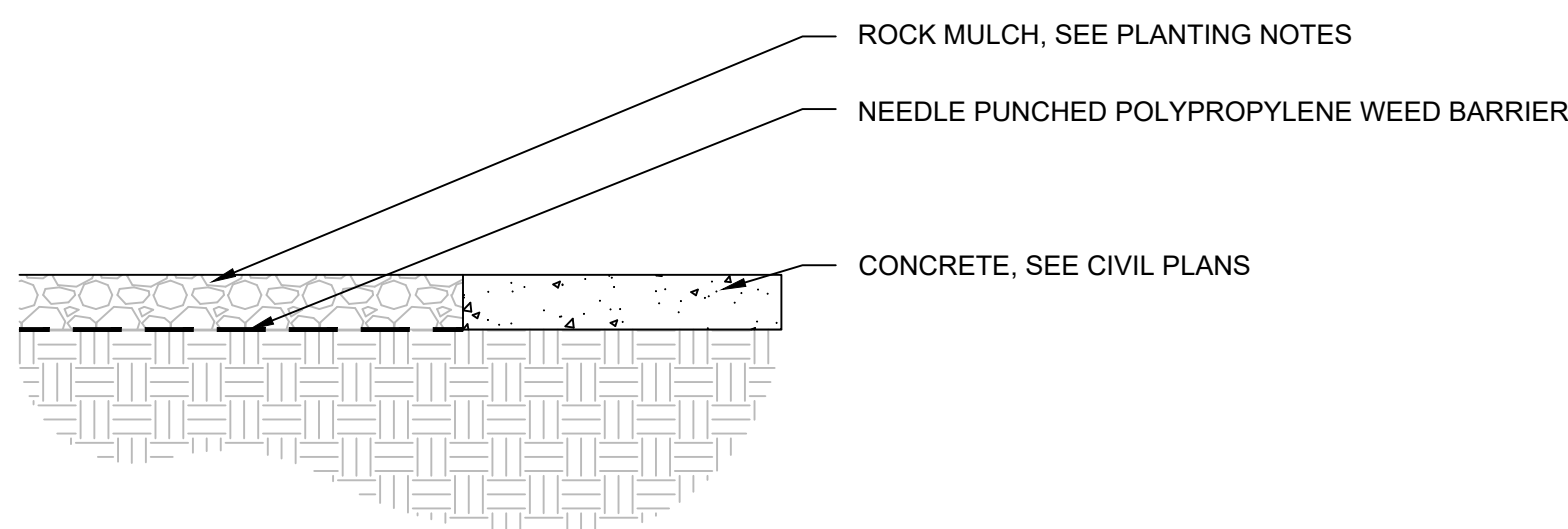
SPACING	PLANTS / SF
6" O.C.	4.61
8" O.C.	2.60
9" O.C.	1.78
10" O.C.	1.66
12" O.C.	1.15
15" O.C.	.738
18" O.C.	.50
24" O.C.	.28
30" O.C.	.18
36" O.C.	.12
48" O.C.	.07
60" O.C.	.04
72" O.C.	.03



**6** **DETAIL: PLANT SPACING CHART**  
L-802 NOT TO SCALE

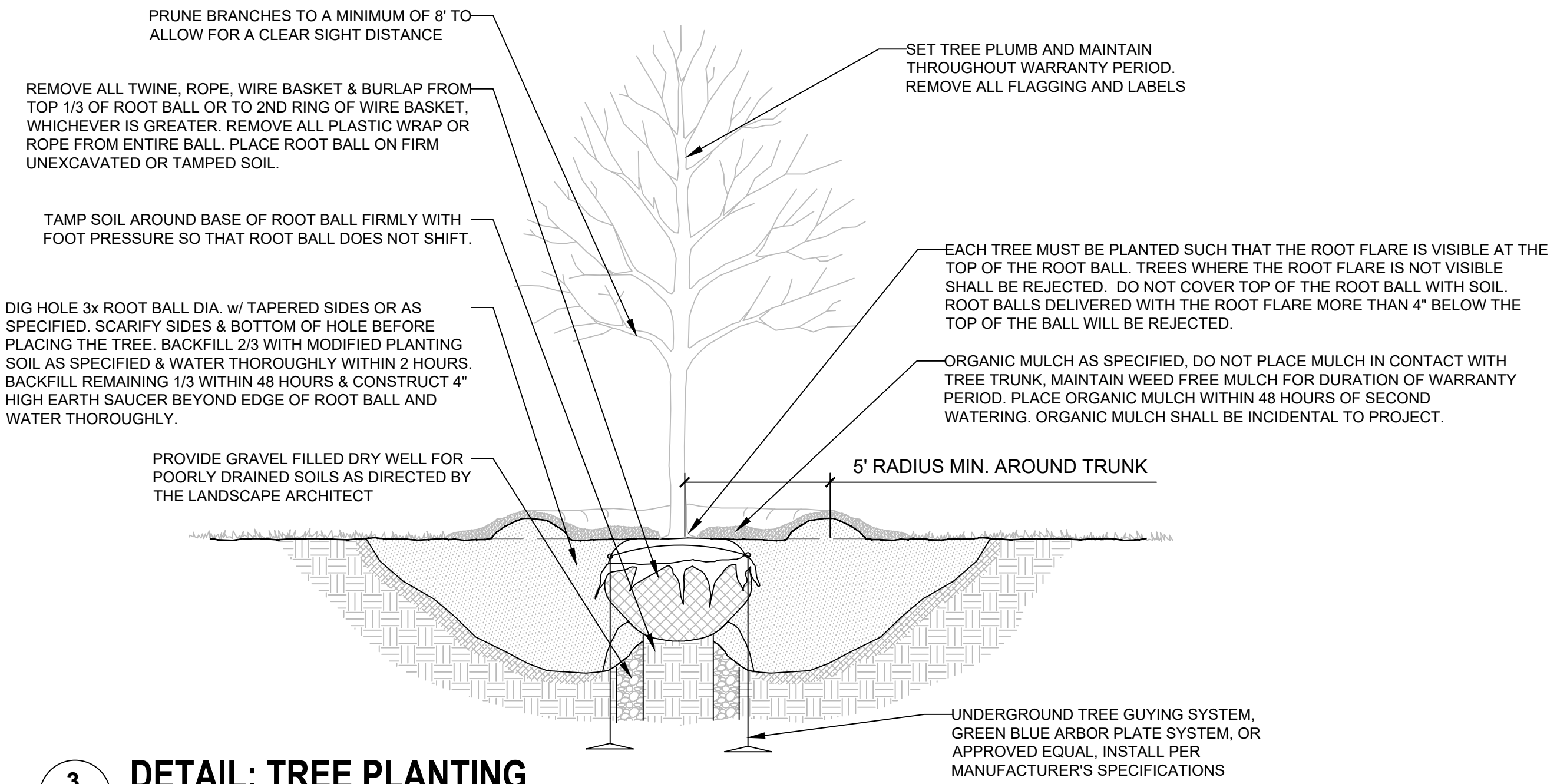


**5** **DETAIL: TREE PLANTING ON SLOPE**  
L-802 NOT TO SCALE

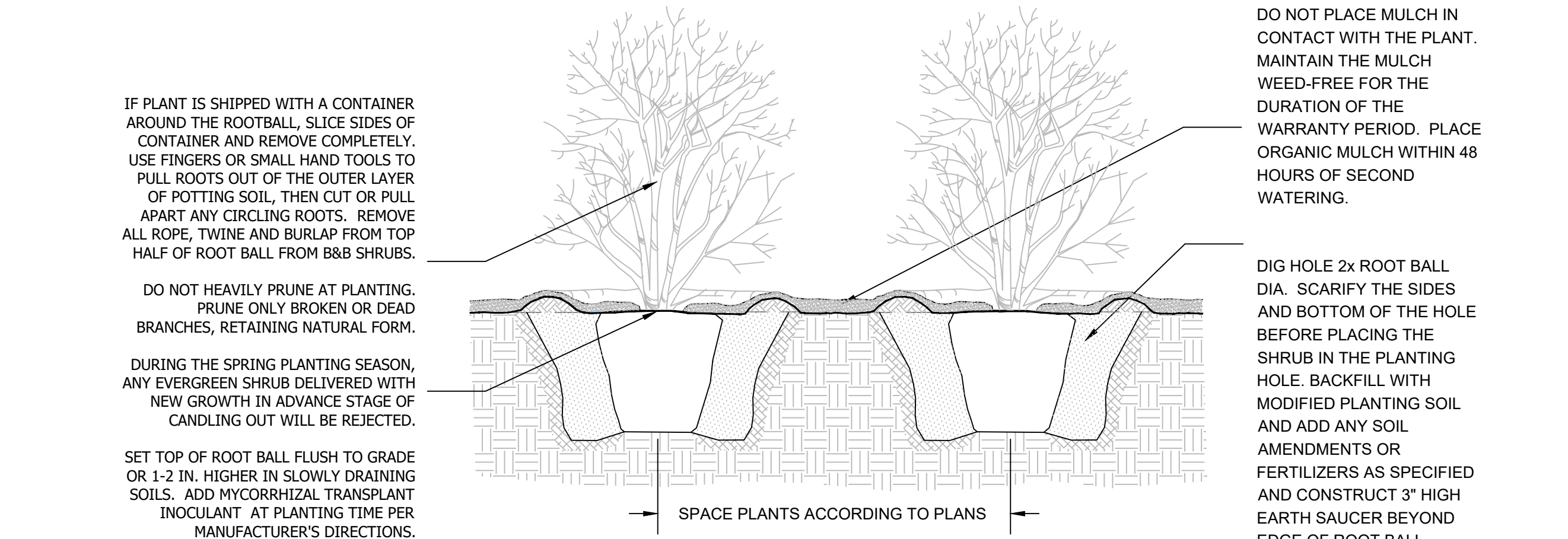


**4** **DETAIL: ROCK MULCH AT CONCRETE**  
L-802 NOT TO SCALE

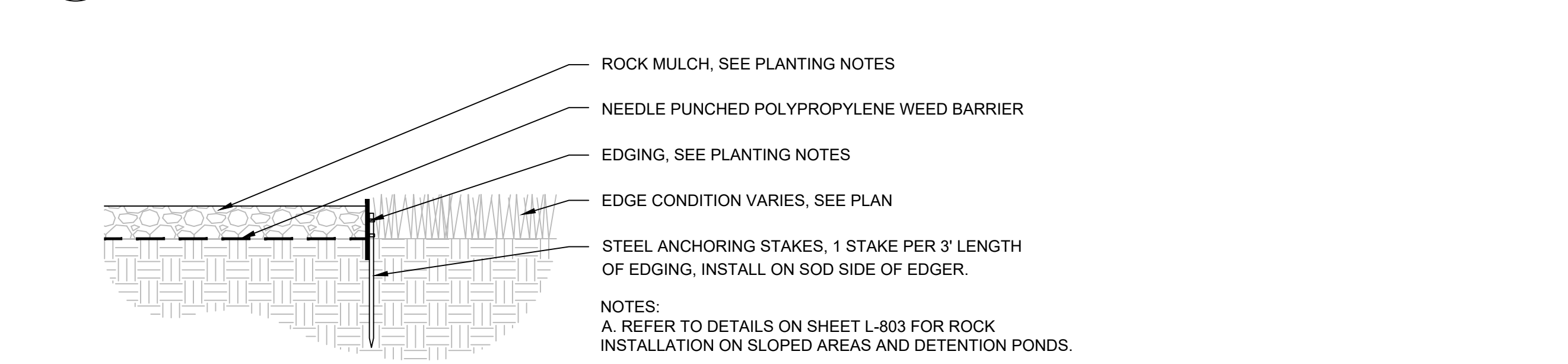
- NOTES:
- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES, SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
  - STAKE TREES ONLY AS SPECIFIED AT THE DIRECTION OF LANDSCAPE ARCHITECT WRAP TREE TRUNKS AS SPECIFIED. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH IN THE FIELD.
  - SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2 IN. HIGHER IN SLOWLY DRAINING SOILS.
  - CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT OF ANY POTENTIAL DRAINAGE ISSUES PRIOR TO FINAL PLANTING. INSTALL APPROVED DRAINAGE MATERIALS AS DIRECTED.
  - IF PLANT IS SHIPPED WITH A CONTAINER AROUND THE ROOTBALL, SLICE SIDES OF CONTAINER AND REMOVE COMPLETELY. USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY CIRCLING ROOTS.
  - TO IMPROVE TRANSPLANTING SUCCESS THE FOLLOWING VARIETIES SHOULD BE SPRING PLANTED ONLY: PINE, OAK, MAPLE, HONEYLOCUST AND CRABAPPLE.



**3** **DETAIL: TREE PLANTING**  
L-802 NOT TO SCALE



**2** **DETAIL: SHRUB PLANTING**  
L-802 NOT TO SCALE



**1** **DETAIL: ROCK MULCH WITH EDGER**  
L-802 NOT TO SCALE



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01/08/2024	PRE APPLICATION SUBMITTAL	0	ALBUQUERQUE 10 MW DATA CENTER
03/08/2024	CRB SUBMITTAL	1	
03/20/2024	BID SET	2	
04/24/2024	CRB RESUBMITTAL	3	



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ISSUE DATE: 04/24/2024

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LANDSCAPE DETAILS

SHEET NO.:  
**L-802**



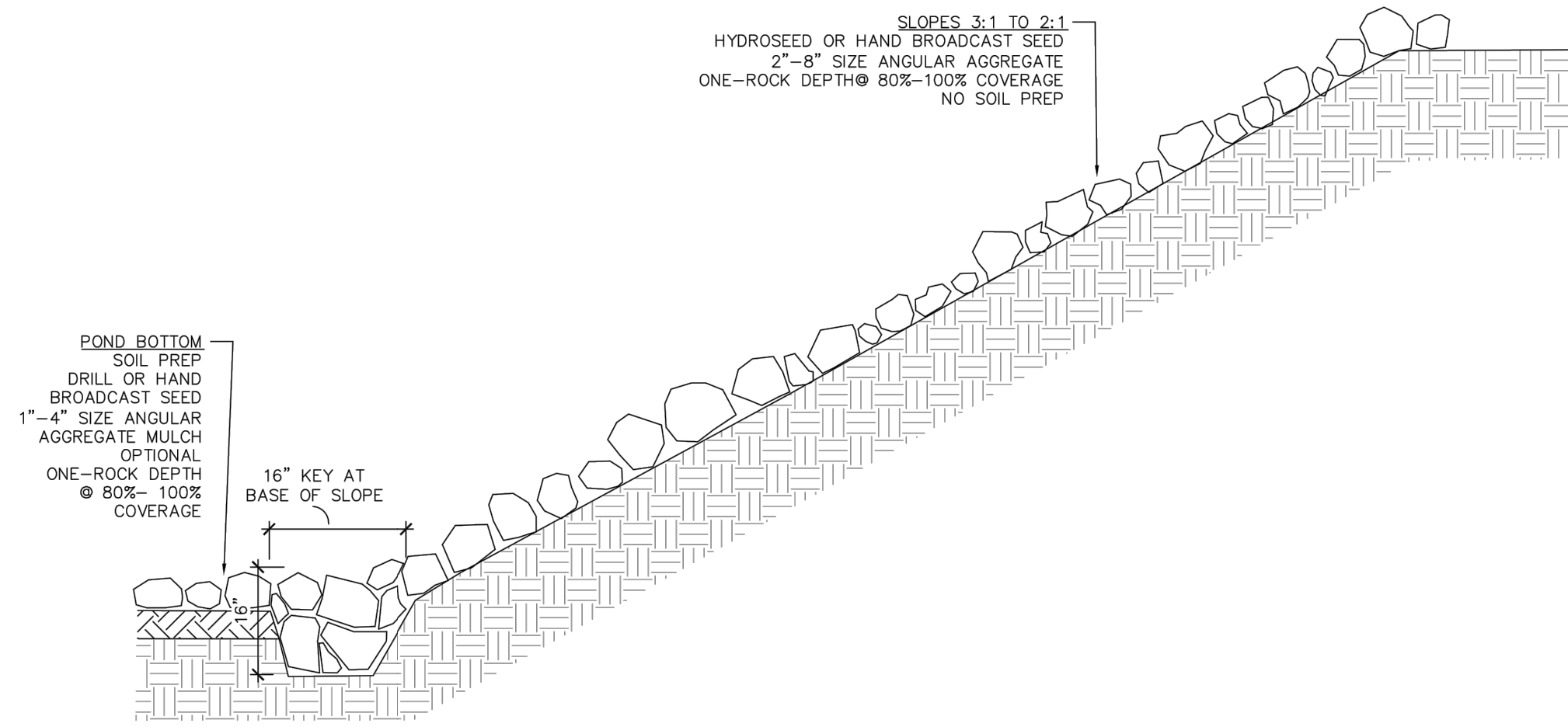


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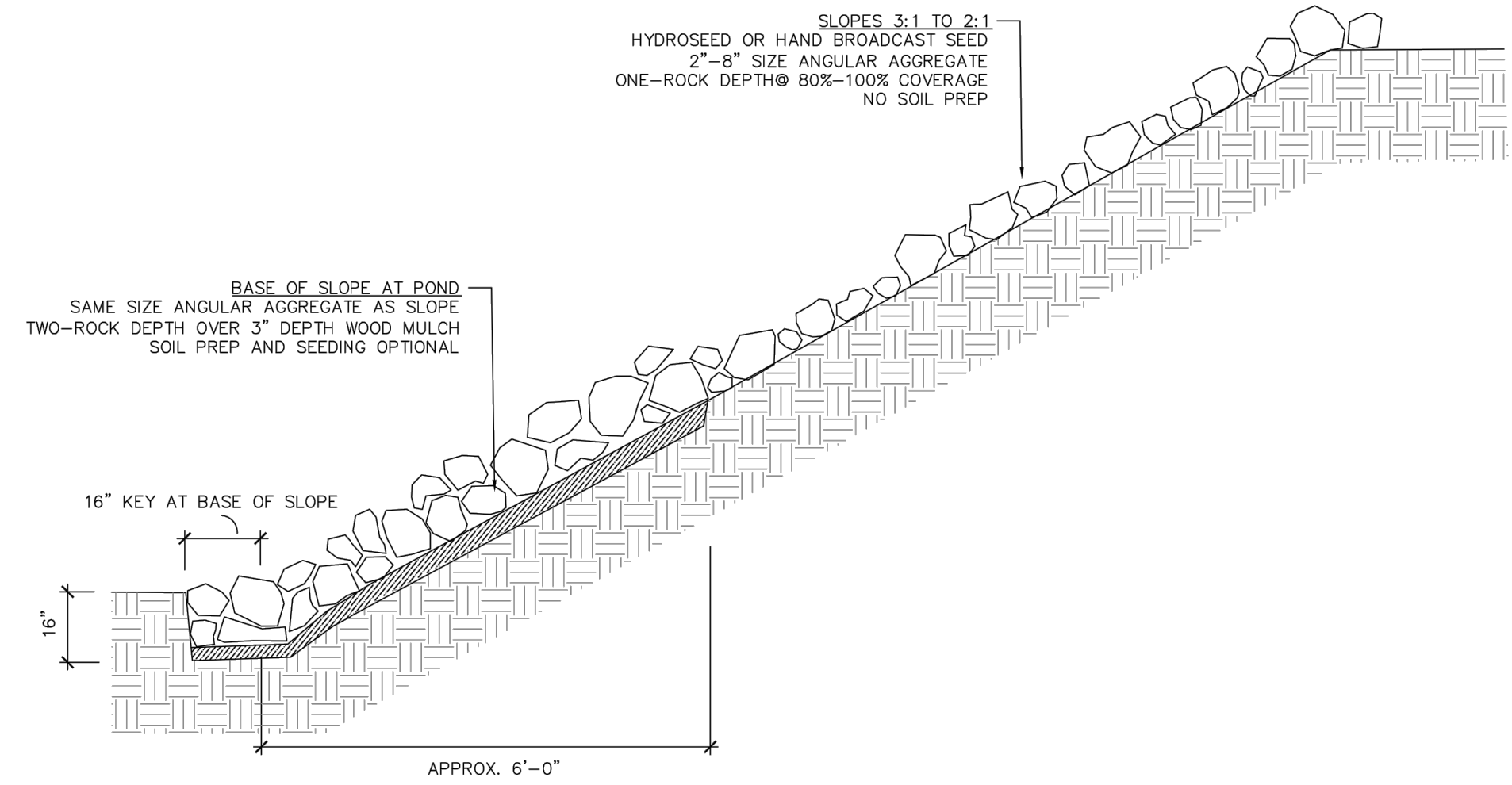
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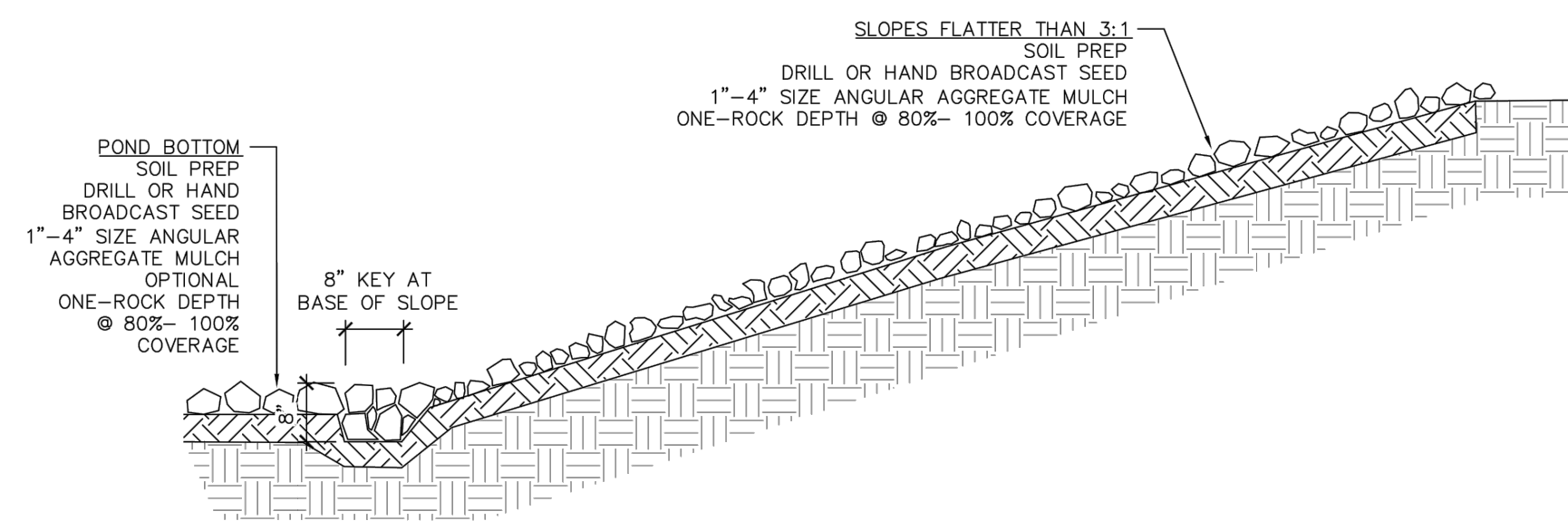
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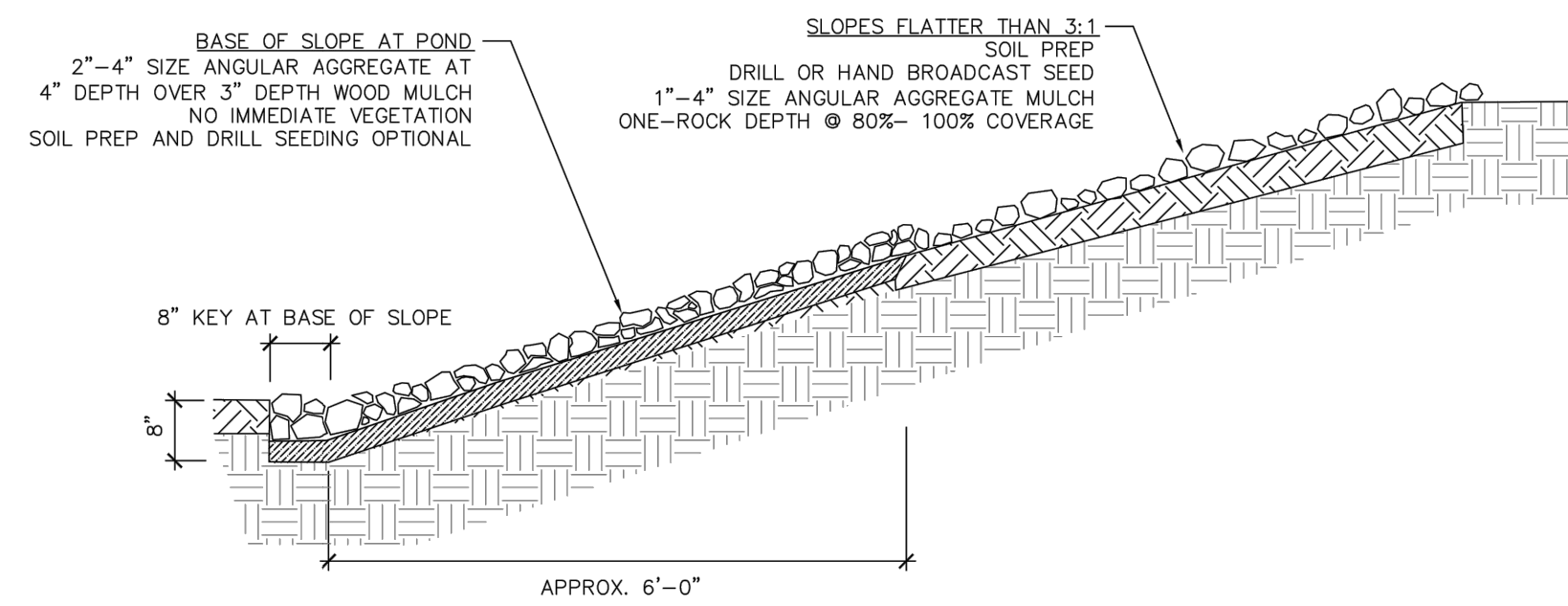
**A4 SLOPES 3:1 TO 2:1, PRIVATE PONDS**  
SCALE: N.T.S.



**A2 1013-SKL-2: SLOPES 3:1 TO 2:1**  
SCALE: N.T.S.



**A3 SLOPES FLATTER THAN 3:1, PRIVATE PONDS**  
SCALE: N.T.S.



**A1 1013-SKL-1: SLOPES FLATTER THAN 3:1**  
SCALE: N.T.S.

PROJECT TITLE

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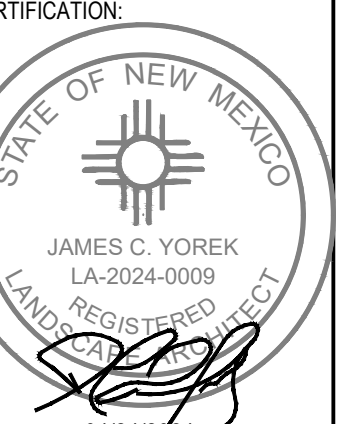
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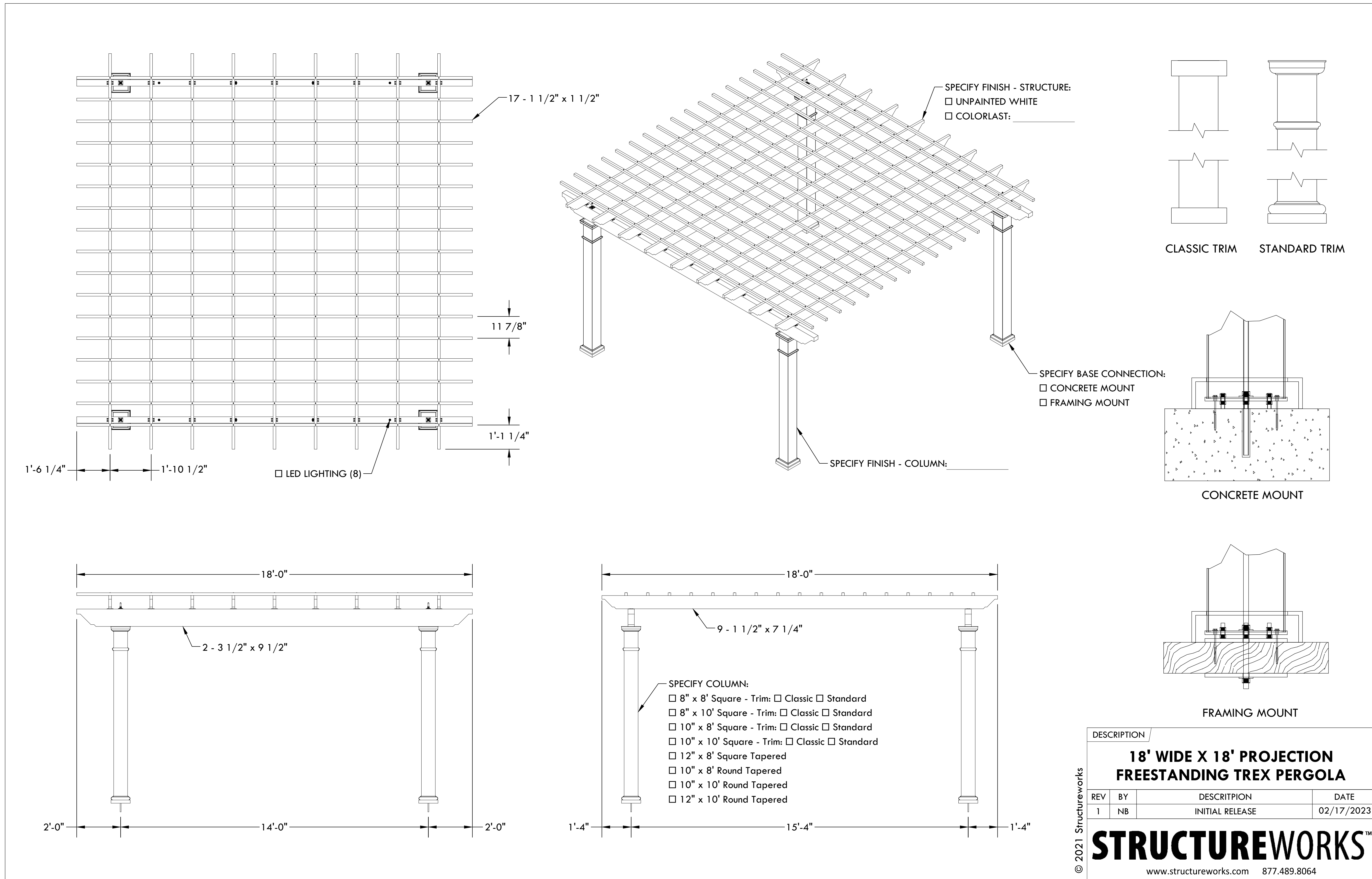
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SHEET TITLE: LANDSCAPE DETAILS

SHEET NO.: L-803





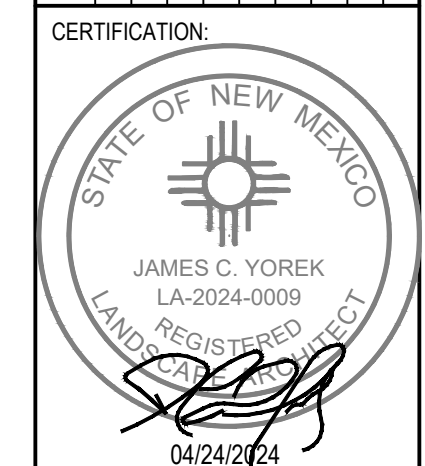


733 MARQUETTE AVE  
SUITE 1000  
MINNEAPOLIS, MN 55402  
WWW.STANTEC.COM



ALBUQUERQUE 10 MW  
DATA CENTER  
DAYTONA RD NW  
ALBUQUERQUE, NEW MEXICO 87121

DATE	DESCRIPTION	ISSUE NO.
01/08/2024	PRE APPLICATION SUBMITTAL	0
03/08/2024	DRB SUBMITTAL	1
03/20/2024	DRB SET	2
04/24/2024	DRB RESUBMITTAL	3



PROJECT NO.: 193806697  
DWN BY: SY  
CHKD BY: TH  
APPD BY: CY  
ISSUE DATE: 04/24/2024  
ISSUE NO.: 3

SHEET TITLE:  
LANDSCAPE DETAILS

SHEET NO.:  
L-804

**1**  
L-804  
**DETAIL: 18' X 18' PERGOLA**  
NOT TO SCALE

© 2021 Structureworks

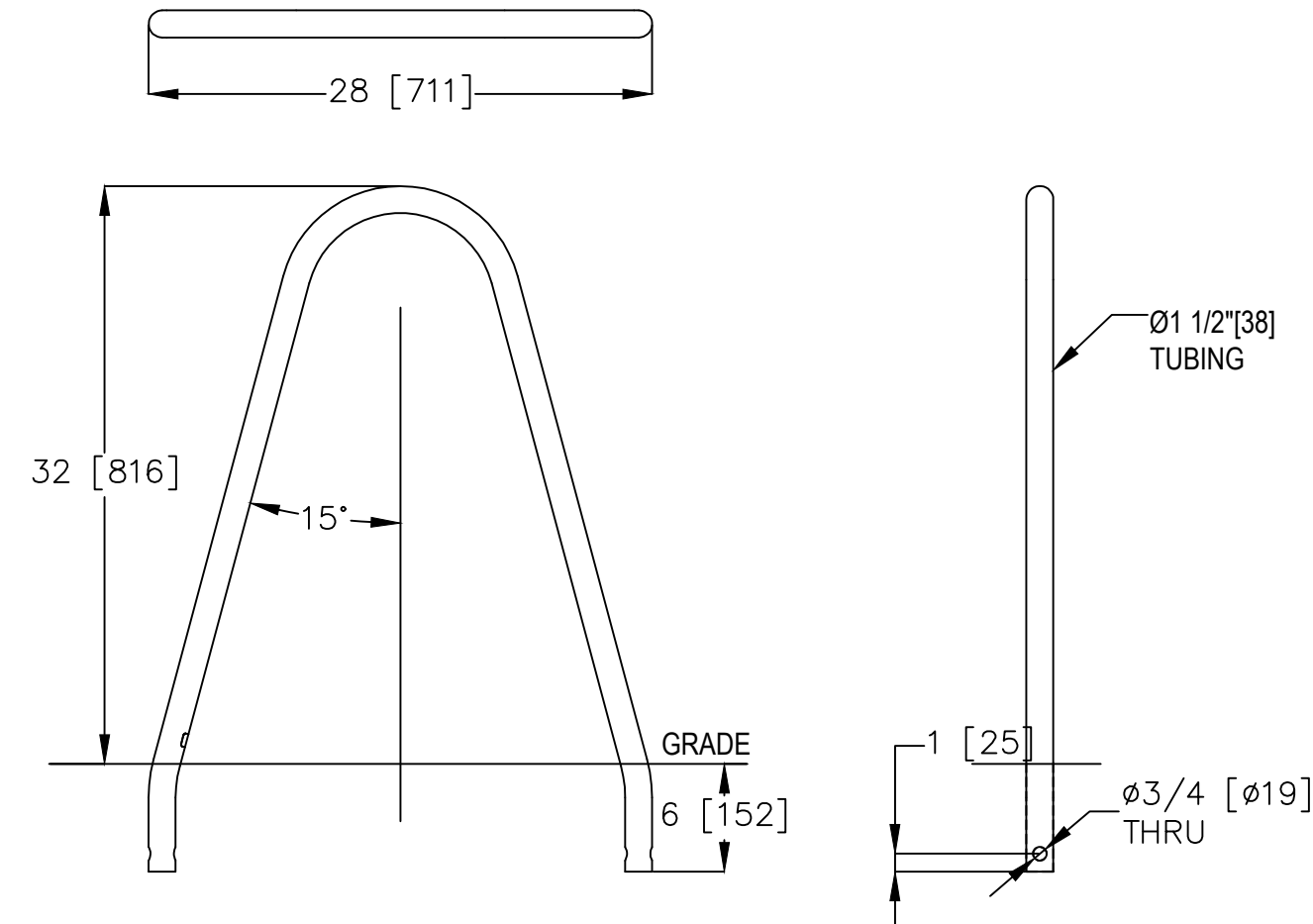
REV	BY	DESCRIPTION	DATE
1	NB	INITIAL RELEASE	02/17/2023

**STRUCTUREWORKS™**  
www.structureworks.com 877.489.8064



**Bola** Bike Rack, Embedded  
 Product Drawing  
 Date: 3/2/2022  
 www.landscapeforms.com Ph: 800.521.2546

OVERALL WIDTH DIMENSION MAY VARY  
 DUE TO MANUFACTURING CAPABILITIES.



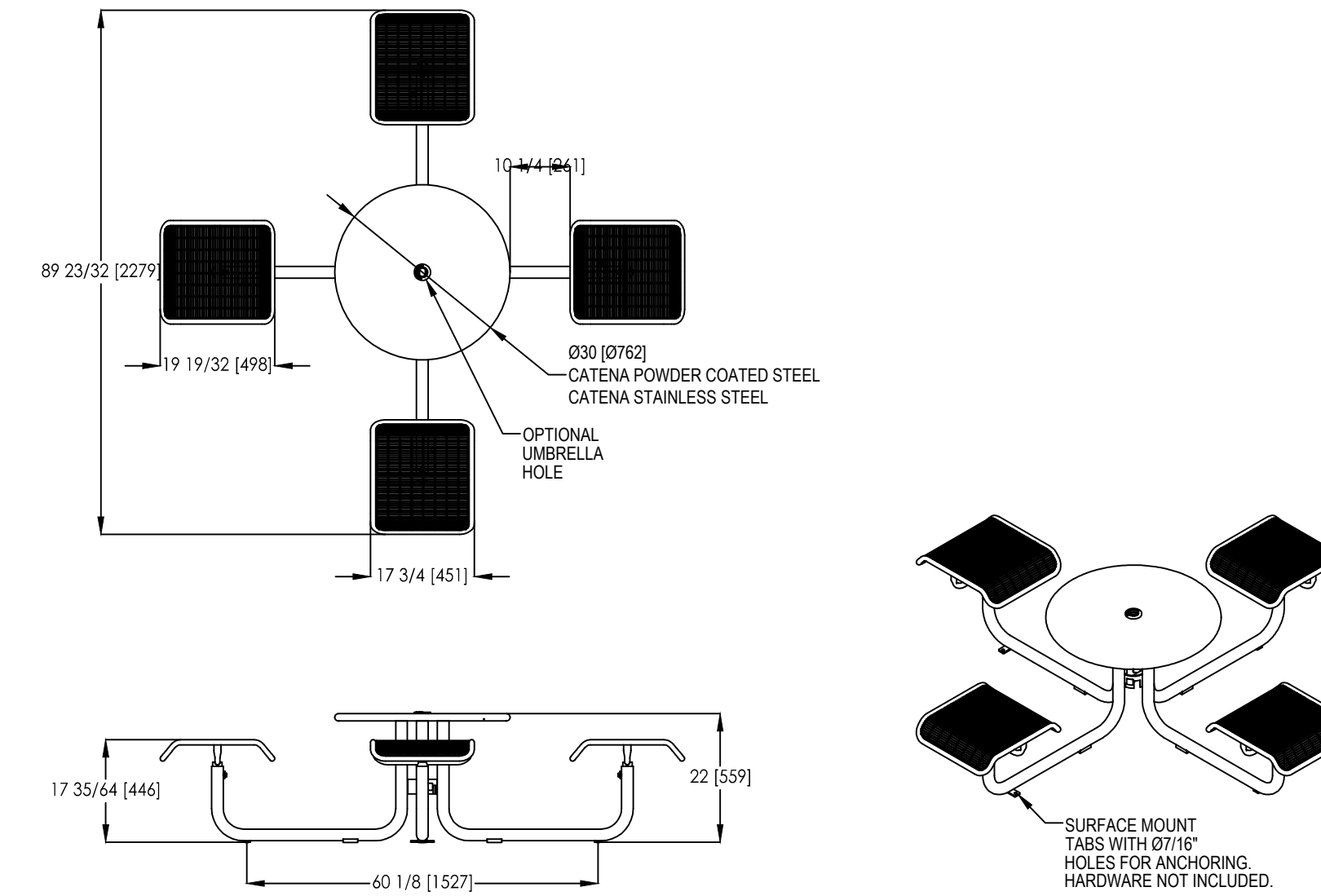
Drawing: B0661-01  
 Dimensions are in inches [mm]

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**4** **DETAIL: BIKE RACK**  
 L-805 NOT TO SCALE

**Carousel™** Table, 4 seat casual height, backless grid seats, Catena 30in dia tabletop  
 Product Drawing  
 Date: 9/12/2018  
 www.landscapeforms.com Ph: 800.521.2546

\*UNIT MUST BE SURFACE MOUNTED\*

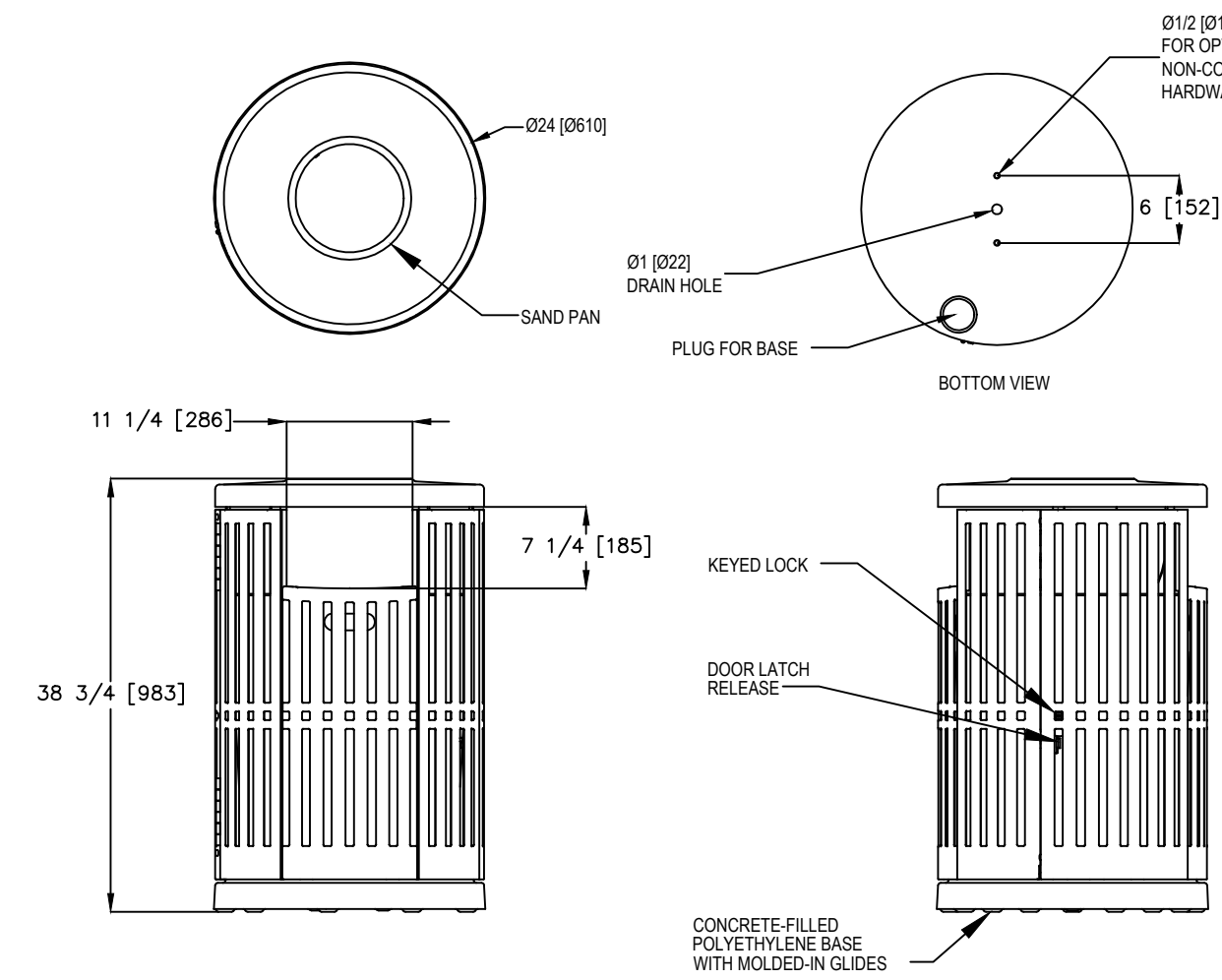


Drawing: CR0050  
 Dimensions are in inches [mm]

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**2** **DETAIL: 4 SEATS TABLE WITH BACKLESS GRID SEATS**  
 L-805 NOT TO SCALE

**Chase Park®** Side Opening Litter Receptacle, With Sand Pan, With Lock  
 Product Drawing  
 Date: 8/22/2019  
 www.landscapeforms.com Ph: 800.521.2546



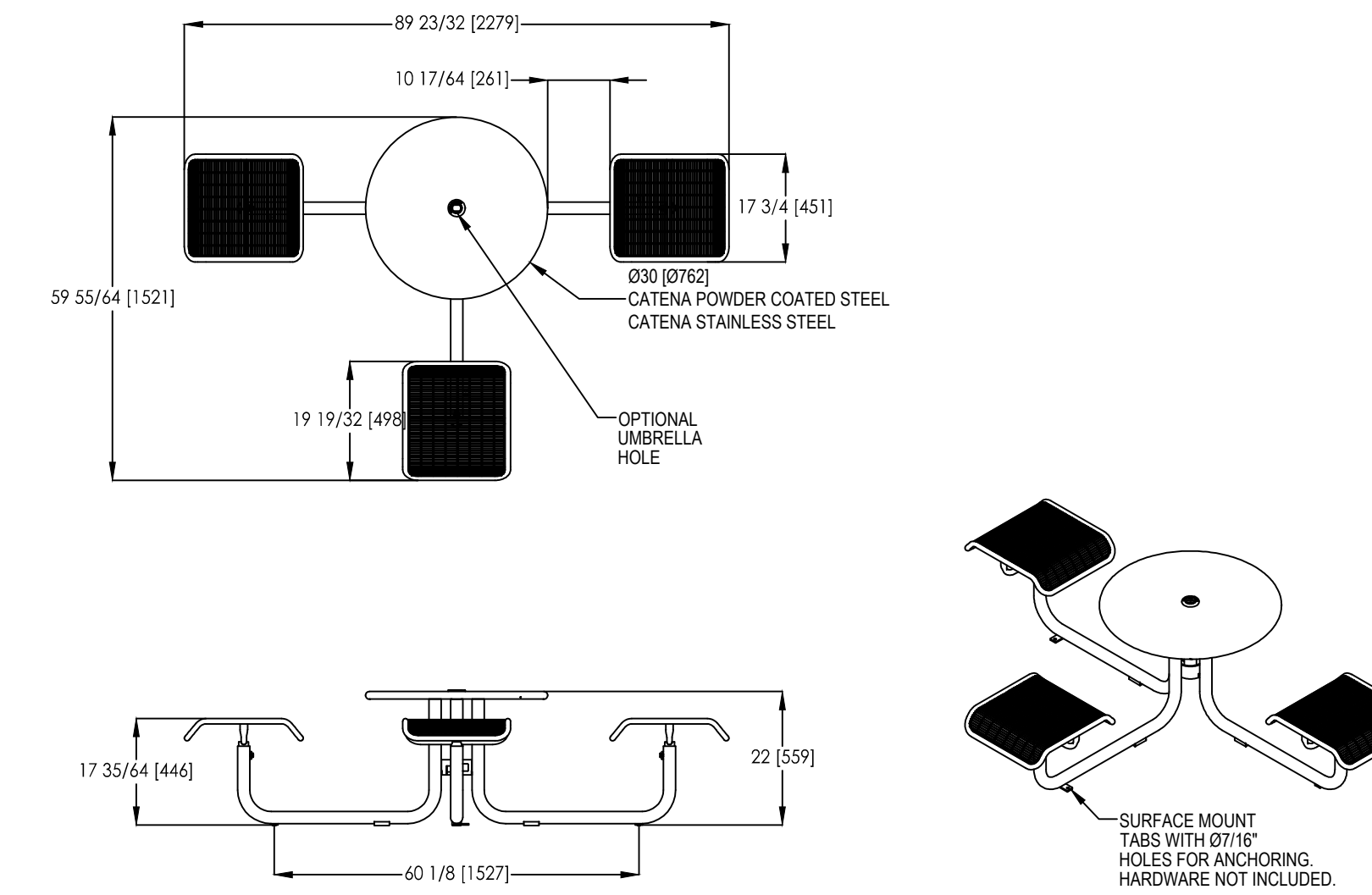
Drawing: CP362-04  
 Dimensions are in inches [mm]

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**3** **DETAIL: SIDE OPENING LITER RECEPTACLE**  
 L-805 NOT TO SCALE

**Carousel™** Table, 3 seat casual height, backless grid seats, Catena 30in dia tabletop  
 Product Drawing  
 Date: 9/12/2018  
 www.landscapeforms.com Ph: 800.521.2546

\*UNIT MUST BE SURFACE MOUNTED\*



Drawing: CR0001  
 Dimensions are in inches [mm]

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**1** **DETAIL: 3 SEATS TABLE WITH BACKLESS GRID SEATS**  
 L-805 NOT TO SCALE



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 MINNEAPOLIS, MN 55402  
 WWW.STANTEC.COM

CLIENT:



**ALBUQUERQUE 10 MW  
 DATA CENTER**  
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 ALBUQUERQUE, NEW MEXICO 87121

PROJECT TITLE

ISSUE NO.	DESCRIPTION	DATE
0	PRE APPLICATION SUBMITTAL	01/08/2024
1	PRB SUBMITTAL	03/08/2024
2	BID SET	03/20/2024
3	CRB RESUBMITTAL	04/24/2024

CERTIFICATION:



PROJECT NO.: 193806697

DWN BY: SY TH CY  
 CHKD BY: TH CY  
 APPD BY: CY

ISSUE DATE: 04/24/2024

ISSUE NO.: 3

SHEET TITLE:

LANDSCAPE DETAILS

SHEET NO.:

**L-805**