

K:\COS - WaterResources\196441003 - EPC Intersections\CA004\PlanSheet\CD\1\EPIC INT CIV.dwg Kofford, Kevin 7/8/2025 10:13 AM  
THIS DOCUMENT, TOGETHER WITH THE CONTRACT AND EXISTING PREPARED HEREIN, IS AN INSTRUMENT OF SERVICE. IT IS HEREBY AGREED THAT THE ENGINEER, FIRM OR INDIVIDUAL SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER, FIRM OR INDIVIDUAL AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER, FIRM OR INDIVIDUAL.

**DESIGN ENGINEER'S STATEMENT:**

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

*Heidi M. McMacken*

HEIDI MCMACKEN, P.E.  
COLORADO REGISTERED PROFESSIONAL ENGINEER NO. 58655  
KIMLEY-HORN AND ASSOCIATES, INC.

**OWNER/DEVELOPER'S STATEMENT:**

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

*[Signature]*

9/30/25

OWNERS SIGNATURE

DATE

**EL PASO COUNTY:**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

*[Signature]*

9/30/25

JOSHUA PALMER, P.E.  
COUNTY ENGINEER/ECM ADMINISTRATOR



**HAMPTON AT ERICSON AND CALLE CORVO  
DRAINAGE IMPROVEMENTS  
FINAL DESIGN**  
COUNTY OF EL PASO, STATE OF COLORADO

CALLE CORVO  
APPROXIMATE PROJECT AREA



HAMPTON AT ERICSON  
APPROXIMATE PROJECT AREA



**VICINITY MAPS**

NTS

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**CONTACTS:**

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Drawing File Name:  
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Sheet Revisions			
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**FINAL DESIGN**

No Revisions:  
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HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO COVER SHEET		Project No./Code
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Detailer: AME		
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ENGINEERING CONSTRUCTION NOTES

- ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE THE COMMENCEMENT OF ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-922-1987).
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY, COUNTY PROPERTY, OR EASEMENT SHALL CONFORM TO THE EL PASO COUNTY SPECIFICATIONS AND STANDARDS. (LATEST EDITION)
- CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS, AND ALL OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH MUTCD CONSTRUCTION AREA TRAFFIC CONTROL.

ENGINEERING DEMOLITION NOTES

- ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
- ALL CONDITIONS SHOWN TO BE “EXISTING” SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED AND SUBMITTED TO THE OWNER AND THE ENGINEER FOR REVIEW. CHANGES TO THE ORIGINAL DESIGN OF THIS PROJECT DUE TO EXISTING SITE CONDITIONS MUST BE APPROVED BY BOTH THE OWNER AND THE ENGINEER PRIOR TO MAKING ANY CHANGES.
- THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION.
- WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8” BELOW FINISH GRADE.

ENGINEERING SITE NOTES

- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- CONTRACTOR SHALL MATCH PROPOSED GRADES TO EXISTING GRADE AT ALL TIE IN LOCATIONS.
- CONTRACTOR SHALL REMOVE PAVEMENT AND CONCRETE IN ACCORDANCE WITH SPECIFICATIONS OF EL PASO COUNTY AND/OR THE COLORADO STATE DEPARTMENT OF TRANSPORTATION.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS AND ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL REFER TO BUILDING PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES, TO INCLUDE, SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS, COORDINATE WITH ANY UTILITY COMPANIES FOR APPROVED LOCATIONS AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
- CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, BASEMENTS, CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.

ENGINEERING PAVING NOTES

- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONCRETE PAVEMENT JOINTS SHALL BE SPACED AT 12’ CENTERS MAXIMUM.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2” DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

ENGINEERING GRADING NOTES

- CONTOURS ARE TO FINISH GRADE.
- TOP OF RIPRAP SHALL BE INSTALLED AT FINISHED GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND OR OTHER FINAL LANDSCAPE PLANTING IS WELL ESTABLISHED.

ENGINEER’S NOTICE TO CONTRACTORS:

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF THE PLANS.
- THE COUNTY ENGINEER’S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE COUNTY WILL NOT BE HELD RESPONSIBLE FOR THEIR ENFORCEMENT.
  - APPROVAL OF THESE PLANS BY THE COUNTY DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
  - THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY EL PASO COUNTY DOES NOT AUTHORIZE THE OWNER TO VIOLATE ANY FEDERAL, STATE OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
  - NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
  - CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING: SAFETY OF ALL PERSONS AND PROPERTY, AND THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL BUILDINGS, SLOPES, STREETS, UTILITIES, AND STORM SEWERS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT 719-453-0180. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY, OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.

Print Date: July 8, 2025		Sheet Revisions			 DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE, COLROADO SPRINGS, CO 80922 PHONE: (719) 520-6460		FINAL DESIGN		HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO GENERAL NOTES		Project No./Code					
Drawing File Name:							No Revisions:			PROJECT NO						
 KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180							Revised:	Designer: HMM		196441003						
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ENGINEER’S NOTICE TO CONTRACTORS (CONT.):

- 7. EXCEPT AS NOTED HEREON ALL UTILITY SERVICES WITHIN THIS DEVELOPMENT ARE UNDERGROUND INSTALLATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK NEAR THEIR FACILITIES, AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. FOR UTILITY MARK–OUT SERVICE, CALL 811.
- 8. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
- 9. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- 10. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- 11. FOR ALL UTILITY TRENCHES, SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD BY A QUALIFIED SOILS ENGINEER WHICH CERTIFY THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH THE ON–SITE EARTHWORK SPECIFICATIONS.
- 12. ANY WORK DONE WITHOUT INSPECTION OR MATERIALS TESTING IS SUBJECT TO REMOVAL OR CORRECTION.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE FIELD ENGINEER.
- 14. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
- 15. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
- 16. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS OR IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT KIMLEY–HORN BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF COLORADO SPRINGS FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

ENGINEER’S NOTICE TO CONTRACTORS (CONT.):

- 18. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS THE COUNTY ENGINEER APPROVES A CONSTRUCTION CHANGE OR THE COUNTY INSPECTOR REQUIRES THE CHANGE.
- 19. AS–BUILT DRAWINGS MUST BE SUBMITTED TO THE COUNTY’S ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.
- 20. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE COUNTY’S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT OR COLORADO DIVISION OF WILDLIFE. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- 21. NOTES AND DETAILS DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 22. IF AT ANY TIME DURING THE GRADING OPERATION, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
- 23. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE ADDITIONAL CARE TO ENSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE WHILE MEETING MINIMUM AND MAXIMUM PAVEMENT SLOPES AS DEFINED IN THE CRITERIA.
- 24. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
- 25. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 26. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN IN THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
- 27. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
- 28. SPOT GRADES ARE TO FLOWLINE OR FINISH PAVEMENT GRADE UNLESS OTHERWISE NOTED.
- 29. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
- 30. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
- 31. EXISTING TREES AND UTILITIES ARE TO REMAIN OR BE PROTECTED IN PLACE, UNLESS OTHERWISE SPECIFIED.

ENGINEERING DRAINAGE AND STORM WATER NOTES

- 1. EXISTING UTILITIES WERE PLOTTED FROM THE BEST AVAILABLE INFORMATION OBTAINED FROM UTILITY OWNERS AND SURVEYED LOCATIONS. KIMLEY–HORN MAKES NO GUARANTEES AS TO THE ACCURACY AND COMPLETENESS OF THE EXISTING UTILITIES SHOWN. IT IS THE CONTRACTOR’S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 2. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

ENGINEERING DRAINAGE AND STORM WATER NOTES (CONT’D)

- 3. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL DE–SILT ALL DRAINAGE STRUCTURES AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 5. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER PRIOR TO EXCAVATION.
- 6. NO BATCH PLANS WILL BE UTILIZED ONSITE.
- 7. THERE ARE NO STREAM CROSSINGS WITHIN THIS PROJECT.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 1. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE, AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY (EPC) STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ENGINEERING CRITERIA MANUAL (ECM), THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME 1 AND 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 2. A PRECONSTRUCTION MEETING BETWEEN THE PERMIT HOLDER(S) AND EL PASO COUNTY SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER(S) TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. NO LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES BEYOND THE INSTALLATION OF THE INITIAL CONSTRUCTION CONTROL MEASURES (CCMS), AS INDICATED ON THE APPROVED GEC PLAN OR CDS WITH GEC PLANS, MAY OCCUR PRIOR TO RECEIVING A NOTICE TO PROCEED (NTP) ISSUED BY THE ECM ADMINISTRATOR. FAILURE TO OBTAIN A NOTICE TO PROCEED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES MAY RESULT IN AN IMMEDIATE STOP WORK ORDER (SWO).
- 3. CONSTRUCTION CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. STORMWATER RUNOFF FROM ALL DISTURBED AREAS AND SOIL STORAGE AREAS MUST UTILIZE OR FLOW TO ONE OR MORE CCM(S) TO MINIMIZE EROSION OR SEDIMENT IN THE DISCHARGE. THE CCM(S) MUST CONTAIN OR FILTER FLOWS IN ORDER TO PREVENT THE BYPASS OF FLOWS WITHOUT TREATMENT AND MUST BE APPROPRIATE FOR STORMWATER RUNOFF FROM DISTURBED AREAS AND FOR THE EXPECTED FLOW RATE, DURATION, AND FLOW CONDITIONS (E.G., SHEET OR CONCENTRATED FLOW).
- 4. ALL CCMS SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. THE QUALIFIED STORMWATER MANAGER (QSM) SHALL ASSESS THE ADEQUACY OF CCMS AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CCMS ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CCMS.

Print Date: July 8, 2025		Sheet Revisions			 DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE, COLORADO SPRINGS, CO 80922 PHONE: (719) 520-6460		FINAL DESIGN		HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO GENERAL NOTES		Project No./Code	
Drawing File Name:							No Revisions:		PROJECT NO			
 KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180		(R-X)	Date:	Comments:			Init.	Revised:	Designer: HMM		196441003	
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STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS (CONT.)

5. PRIOR TO CONSTRUCTION THE PERMIT HOLDER(S) SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
6. MANAGEMENT OF THE STORMWATER MANAGEMENT PLAN (SWMP) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QSM. THE SWMP SHALL BE LOCATED ON-SITE OR DIGITALLY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED AS WRITTEN FROM THE START OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS ACHIEVED. THE QSM SHALL AMEND THE SWMP WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE SITE WHICH WOULD REQUIRE THE IMPLEMENTATION OF NEW OR REVISED CCMS OR IF THE SWMP PROVES TO BE INEFFECTIVE IN CONTROLLING POLLUTANTS IN STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY OR WHEN CCMS ARE NO LONGER NECESSARY AND ARE REMOVED. THE QSM SHALL MAINTAIN A RECORD OF AMENDMENTS MADE TO THE SWMP THAT INCLUDES THE DATE AND IDENTIFICATION OF THE CHANGES.
7. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A RECEIVING WATER UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. IN ADDITION TO MAINTAINING 50 HORIZONTAL FEET OF PRE-EXISTING VEGETATION UPGRADIENT OF A RECEIVING WATER (UNLESS INFEASIBLE AND APPROVED), THE PERMIT HOLDER(S) MUST INSTALL CCMS UPGRADIENT OF THE VEGETATIVE BUFFER.
8. TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS
9. EROSION CONTROL BLANKET (ECB) OR OTHER APPROVED CONTROL MEASURE(S) SHALL BE USED ON SLOPES STEEPER THAN 3:1.
10. VEHICLE TRACKING CONTROLS (VTC) MUST BE IMPLEMENTED TO MINIMIZE VEHICLE TRACKING OF SEDIMENT FROM DISTURBED AREAS. VTCS MUST INCLUDE A STRUCTURE CONTROL MEASURE (E.G., TRACKING PAD) AND MAY INCLUDE A NON-STRUCTURAL CONTROL MEASURE (E.G., SWEEPING). MATERIAL TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
11. ANY TEMPORARY OR PERMANENT CONTROL MEASURE DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.
12. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER, PERMANENT CONTROL MEASURES (PCMS), OR DITCHES EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
13. ALL PCMS SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PCMS MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
14. SOIL COMPACTION MUST BE MINIMIZED IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED OR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION PCMS SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF SOIL COMPACTION DOES OCCUR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER OR IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED, DECOMPACTION OF THE SOIL MUST BE COMPLETED PRIOR TO PLANTING OR INSTALLATION OF THE PCM(S). AN INFILTRATION TEST MUST BE CONDUCTED FOR ALL INFILTRATION PCMS AND THE INFILTRATION TEST RESULTS SUBMITTED TO EL PASO COUNTY PRIOR TO PRELIMINARY ACCEPTANCE (PA).

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS (CONT.)

15. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND PERMANENT STABILIZATION METHODS ARE COMPLETE. WHEN USING VEGETATIVE COVER AS A PERMANENT STABILIZATION METHOD, THE VEGETATION SHALL BE EVENLY DISTRIBUTED PERENNIAL VEGETATION AND OF THE VARIETY AND SPECIES FOUND IN THE COUNTY-APPROVED SEED MIXES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE, AT A MINIMUM, EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY NATIVE VEGETATION IN A LOCAL, UNDISTURBED AREA OR ADEQUATE REFERENCE SITE. ALL TEMPORARY CCMS SHALL BE REMOVED UPON FINAL STABILIZATION AND PRIOR TO STORMWATER PERMIT TERMINATION.
16. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
17. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO BE DISCHARGED OFFSITE OR TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR CONTROL MEASURES. CONCRETE WASHOUT AREAS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK, OR STREAM.
18. DURING CONSTRUCTION DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT’S (CDPHE) LOW RISK DISCHARGE GUIDANCE POLICY FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND. IF CONSTRUCTION DEWATERING OPERATIONS ARE UNABLE TO MEET ALL CRITERIA, CONDITIONS, AND CONTROL MEASURE REQUIREMENTS OF THE LOW RISK DISCHARGE GUIDANCE POLICY, A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COG080000 WILL BE REQUIRED.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
20. THE PERMIT HOLDER(S) SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
21. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER’S LABELS.
22. MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. APPROPRIATE CMS SHALL BE UTILIZED BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS (CONT.)

23. BULK STORAGE (I.E., INDIVIDUAL CONTAINERS OF 55 GALLONS OR GREATER) OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT, OR EQUIVALENT PROTECTION, TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM, OR OTHER FACILITIES.
24. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
25. ON AREAS OF EXPOSED SOIL, MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES. WATER APPLICATION MUST BE CONDUCTED IN A MANNER TO PREVENT DISCHARGE OFFSITE UNLESS AUTHORIZED BY A CDPS OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
27. FOR SITES WHERE A SOILS REPORT IS REQUIRED, THE APPROVED SOILS REPORT FOR THIS SITE SHALL BE CONSIDERED A PART OF THESE PLANS.
28. PERMIT HOLDER(S) AND THEIR AGENTS SHALL COMPLY WITH THE “COLORADO WATER QUALITY CONTROL ACT” (TITLE 25, ARTICLE 8, CRS), AND THE “CLEAN WATER ACT” (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUME 2, AND ENGINEERING CRITERIA MANUAL. ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS MUST BE OBTAINED PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE OR LESS THAN 1 ACRE AND PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WOULD DISTURB 1 OR MORE ACRES, THE PERMIT HOLDER(S) SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE (COR400000 PERMIT) TO THE CDPHE WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A SWMP, OF WHICH THIS GEC PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WQCD – PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

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EXISTING PLAN LEGEND

	EXISTING FENCE LINE
	EXISTING PROPERTY LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING EASEMENT
	EXISTING STORM PIPE
	EXISTING SANITARY LINE
	EXISTING WATER LINE
	EXISTING FIBER OPTIC LINE
	EXISTING GAS LINE
	EXISTING ELECTRIC LINE
	EXISTING DITCH LINE
	EXISTING STORM INLET
	EXISTING FLARED END SECTION
	EXISTING FIBER MANHOLE
	EXISTING CTV PEDESTAL
	EXISTING GAS METER
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY CLEANOUT
	EXISTING STORM MANHOLE
	EXISTING WATER VALVE
	EXISTING WATER HYDRANT
	EXISTING LIGHT POLE
	EXISTING ELECTRIC BOX
	EXISTING ELECTRIC METER
	EXISTING ELECTRIC TRANSFORMER
	EXISTING ELECTRIC PEDESTAL
	EXISTING ELECTRIC VAULT
	EXISTING ELECTRIC MANHOLE
	EXISTING RIPRAP
	EXISTING PCM/DEPRESSED AREA
	SOURCE CONTROL AREA
	EXISTING PAVEMENT

PROPOSED PLAN LEGEND

	PROPOSED CHAIN LINK FENCE
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED STORM PIPE
	PROPOSED WATER PIPE
	PROPOSED DITCH LINE
	PROPOSED DITCH CORRIDOR
	PROPOSED STORM INLET
	PROPOSED RIPRAP
	PROPOSED PCM
	PROPOSED/FUTURE PAVED AREA
	SOURCE CONTROL AREA

ABBREVIATIONS

BOT	BOTTOM
CL	CENTERLINE
CONC	CONCRETE
DWG	DRAWING
DR	DRIVE
EA	EACH
ELEV OR EL	ELEVATION
ESMT	EASEMENT
EX	EXISTING
FES	FLARED END SECTION
FL	FLOWLINE
FT	FOOT/FEET
HP	HIGH-PERFORMANCE POLYPROPYLENE
HCL	HORIZONTAL CONTROL LINE
HGL	HYDRAULIC GRADE LINE
LF	LINEAR FEET
ME	MATCH EXISTING
MH	MANHOLE
MAINT	MAINTENANCE
MAX	MAXIMUM
MIN	MINIMUM
PR	PROPOSED
RIM	RIM ELEVATION
TBC	TOP BACK OF CURB

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El Paso County  
COLORADO

DEPARTMENT OF PUBLIC WORKS  
3275 AKERS DRIVE, COLORADO  
SPRINGS, CO 80922  
PHONE: (719) 520-6460



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HAMPTON AT ERICSON AND CALLE CORVO  
DRAINAGE IMPROVEMENTS  
COUNTY OF EL PASO, COLORADO  
SYMBOLLOGY

Designer: HMM

Detailer: AME

Sheet Subset:

Subset Sheet: 5 of 6

Project No./Code

PROJECT NO

196441003

Sheet Number C1.4

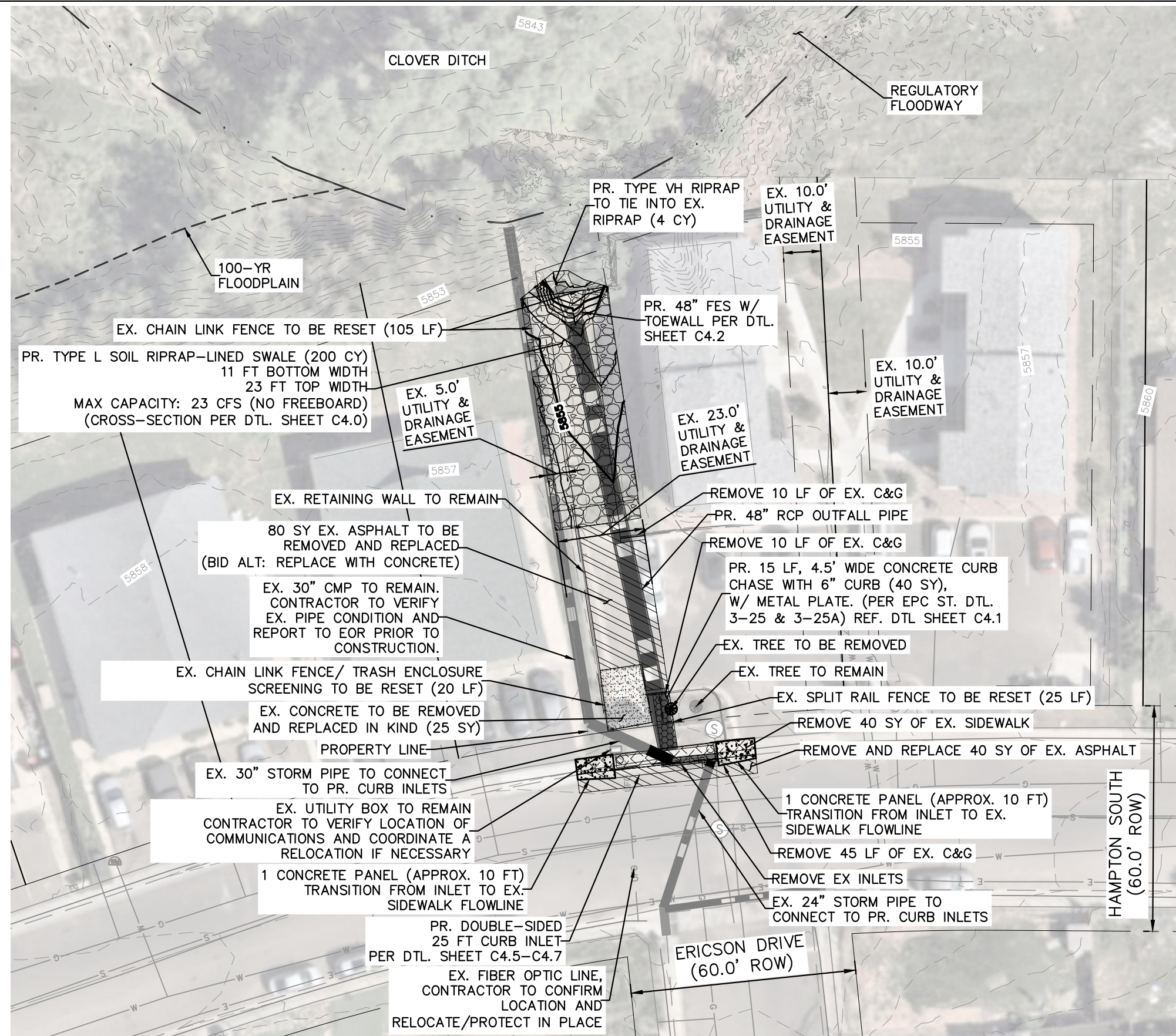
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		SUMMARY OF APPROXIMATE QUANTITIES							
		Bid Item No.		Bid Item Desc		Qty	Unit	Project Totals	
								Plan	As-Constructed
		Site 1 - Hampton/Ericson	100-00000	Mobilization	1	LS			
202-00200	Removal of Sidewalk		40	SY					
202-00203	Removal of Curb and Gutter		65	LF					
202-00210	Removal of Concrete Pavement		25	SY					
202-00220	Removal of Asphalt		40	SY					
203-00000	Unclassified Excavation		30	CY					
210-01000	Reset Fence		150	LF					
212-00006	Seeding (native)		0.10	AC					
214-00201	Remove Tree (tubeling)		1	EA					
304-06007	Aggregate Base Course (Class 6)		77	CY					
403-34722	Hot Mix Asphalt (Grading SX) (75) (PG 58-28)		120	SY					
412-00600	Concrete Pavement (6 Inch)		65	SY					
506-00224	Riprap (24 Inch)		3	CY					
506-00409	Soil Riprap (9-inch)		120	CY					
603-01485	48-inch Reinforced Concrete Pipe (CIP)		119	LF					
603-05048	48" Flared End Section (RCP)		1	EA					
604-19000	Inlet Special (Type R 25 Foot)		1	EA					
608-00005	Concrete Sidewalk (Special)		20	SY					
609-21010	Curb and Gutter Type 2 (Section I-B)		15	LF					
609-21900	Curb and Gutter Type 2 (Special)		45	LF					
625-99999	As-Built Surveying		1	LS					
630-00016	Traffic Control		1	LS					
700-70310	F/A Landcape Removal and Restoration		1	F/A					
700-70530	F/A Drainage Improvement		1	F/A					
700-70380	F/A Erosion Control		1	F/A					
Bid Alternative #1									
	403-34722		Hot Mix Asphalt (Grading SX) (75) (PG 58-28)	80	SY				
Site 2- Calle Corvo	100-00000		Mobilization	1	LS				
	202-00035		Removal of Pipe	2	LF				
	202-00220		Removal of Asphalt	76	CY				
	203-00000		Unclassified Excavation	20	CY				
	210-00010		Reset Mailbox Structure	2	EA				
	210-01000		Reset Fence and Gate	120	LF				
	212-00006	Seeding (native)	0.10	AC					
	304-06007	Aggregate Base Course (Class 6)	13	CY					
	403-34722	Hot Mix Asphalt (Grading SX) (75) (PG 58-28)	75	SY					
	506-00030	Grouted Riprap (18 Inch)	7	CY					
	506-00409	Soil Riprap (9-inch)	1	CY					
	603-01125	12-inch Reinforced Concrete Pipe (CIP)	41	LF					
	603-77001	Culvert Headwall (3-Sided Culvert)(Type 1)	230	SF					
	625-99999	As-Built Surveying	1	LS					
	630-00016	Traffic Control	1	LS					
	700-70310	F/A Landcape Removal and Restoration	1	F/A					
	700-70380	F/A Erosion Control	1	F/A					

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LEGEND

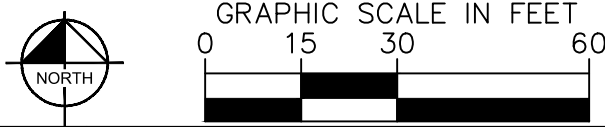
- XXXX --- EXISTING MINOR CONTOURS
- XXXX --- EXISTING MAJOR CONTOURS
- XXXX --- PROPOSED MINOR CONTOURS
- XXXX --- PROPOSED MAJOR CONTOURS
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING INLET/MANHOLE
- PROPOSED INLET/MANHOLE
- PROPOSED SOIL RIPRAP
- PROPOSED RIPRAP
- PROPOSED CONCRETE PAVEMENT
- EXISTING ASPHALT TO BE REMOVED AND REPLACED
- EXISTING CONCRETE TO BE REMOVED AND REPLACED
- EXISTING SIDEWALK TO BE REMOVED AND REPLACED
- EXISTING FENCE TO BE REMOVED AND REPLACED

GENERAL NOTES:

- ALL LIMITS OF CONSTRUCTION/AREAS OF DISTURBANCE TO REMAIN WITHIN EXISTING RIGHT-OF-WAY AND EASEMENTS.
- CONTRACTOR TO RESET ANY LOOSE EXISTING RIPRAP DOWNSTREAM OF PROPOSED WORK TO REESTABLISH CHANNEL SHAPE AND CREATE A SMOOTH TRANSITION.
- CONTRACTOR TO VERIFY LOCATION AND CONDITION OF EXISTING 24" CMP AND 30" CMP AND NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF THE DOUBLE-SIDED INLET.
- CONTRACTOR NOT TO DISTURB EXISTING RETAINING WALL ALONG THE WESTERN EDGE OF THE PARKING LOT.

STRUCTURAL FILL:

- STRUCTURES SHALL REST ON AT LEAST 12 INCHES OF PROPERLY COMPACTED STRUCTURAL FILL. AREA BENEATH FOOTING SHALL BE EXCAVATED TO A DEPTH OF 12 INCHES OR MORE BELOW THE PROPOSED STRUCTURE. THE BOTTOM OF ALL EXCAVATION SHOULD THEN BE MOISTURE TREATED TO A DEPTH OF AT LEAST 6 INCHES, BROUGHT TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D1557 PRIOR TO REFILLING THE EXCAVATION TO THE REQUIRED GRADE WITH PROPERLY COMPACTED STRUCTURAL FILL.



Print Date: July 8, 2025		Sheet Revisions			<div>El Paso County</div> <div>COLORADO</div> <div>DEPARTMENT OF PUBLIC WORKS</div> <div>3275 AKERS DRIVE, COLROADO</div> <div>SPRINGS, CO 80922</div> <div>PHONE: (719) 520-6460</div>	<div>COLORADO REGISTERED</div> <div>HEIDI M. MEMMERT</div> <div>59855</div> <div>PROFESSIONAL ENGINEER</div>	FINAL DESIGN		HAMPTON AT ERICSON AND CALLE CORVO		Project No./Code	
Drawing File Name:		Date:	Comments:	Init.			No Revisions:	DRAINAGE IMPROVEMENTS		PROJECT NO		
<div>Kimley»Horn</div> <div>KIMLEY-HORN AND ASSOCIATES, INC.</div> <div>2 NORTH NEVADA AVE.</div> <div>SUITE 900</div> <div>COLORADO SPRINGS, COLORADO 80903</div> <div>(719) 453-0180</div>							Revised:	Designer: HMM	196441003			
							Void:	Detailer: AME	Sheet Number C2.0			
							Sheet Subset:	Subset Sheet:	1 of 4			



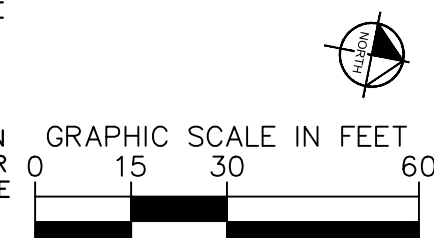
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 — — — XXXX — — — EXISTING MAJOR CONTOURS  
 \_\_\_\_\_ XXXX \_\_\_\_\_ PROPOSED MINOR CONTOURS  
 \_\_\_\_\_ XXXX \_\_\_\_\_ PROPOSED MAJOR CONTOURS

   EXISTING INLET/MANHOLE

 PROPOSED INLET/MANHOLE

1. ALL LIMITS OF CONSTRUCTION/AREAS OF DISTURBANCE TO REMAIN WITHIN EXISTING RIGHT-OF-WAY AND EASEMENTS.
2. CONTRACTOR TO RESET ANY LOOSE EXISTING RIPRAP DOWNSTREAM OF NEW WORK TO REESTABLISH CHANNEL SHAPE AND CREATE A SMOOTH TRANSITION.

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# Kimley»»Horn

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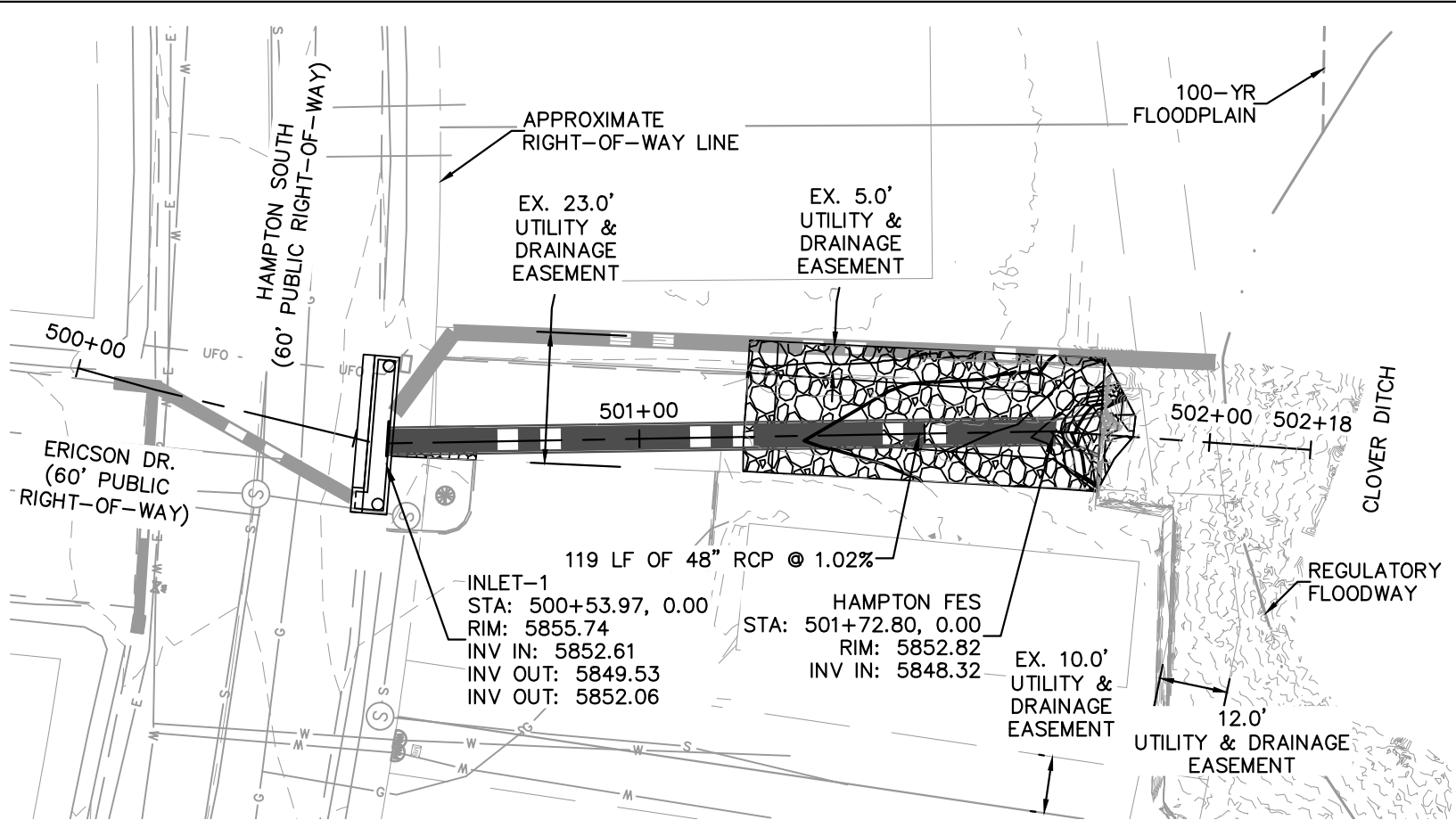
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Detailer:	AME

Subset Sheet: 2 of 4

Sheet Number C2.1



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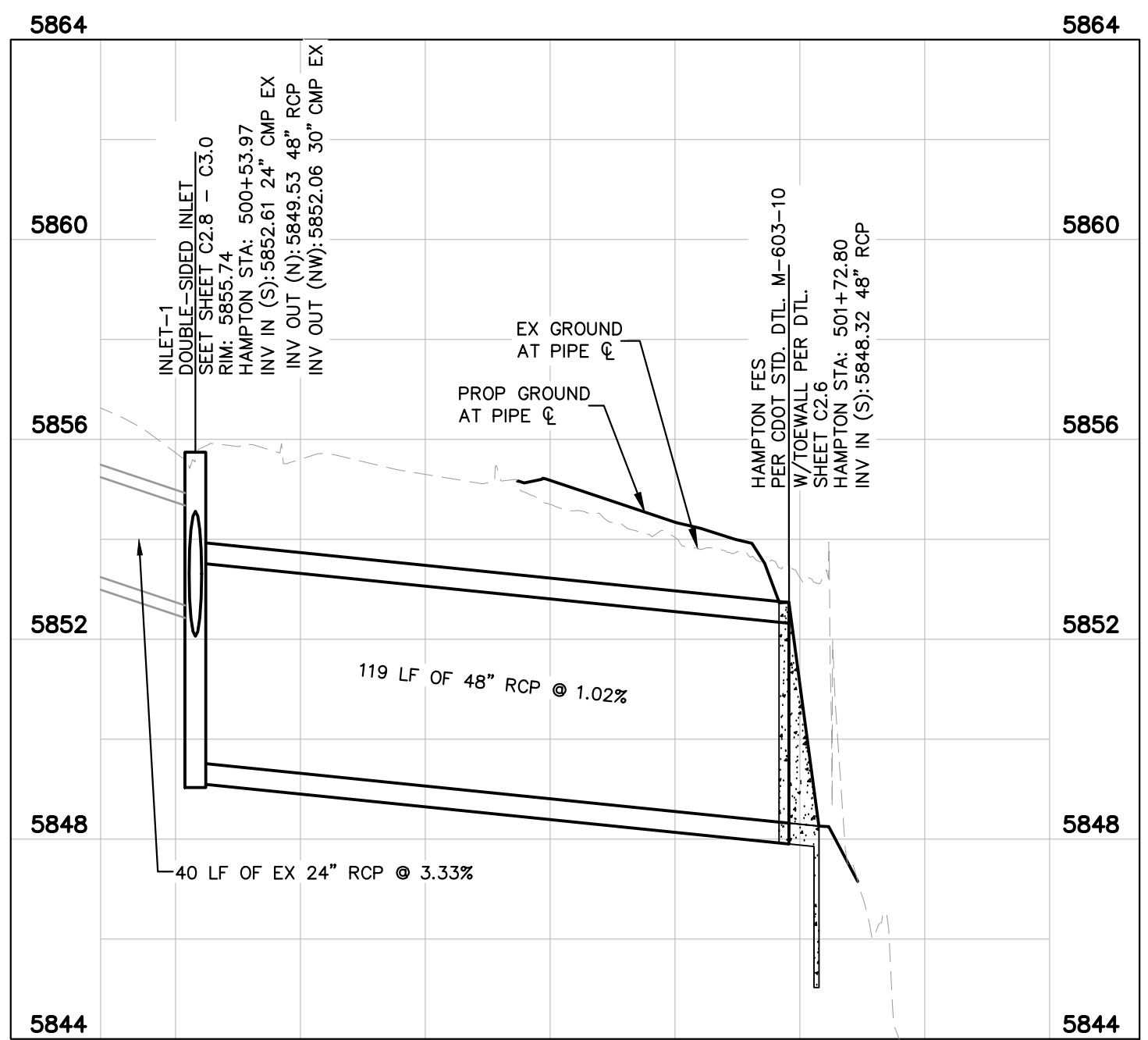
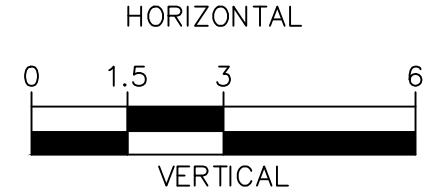
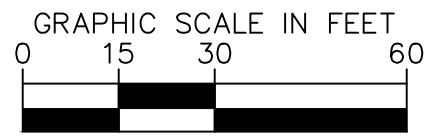
HAMPTON OUTFALL PIPE PLAN VIEW

GENERAL NOTES:

1. ALL LIMITS OF CONSTRUCTION/AREAS OF DISTURBANCE TO REMAIN WITHIN EXISTING RIGHT-OF-WAY AND EASEMENTS.
2. CONTRACTOR TO RESET ANY LOOSE EXISTING RIPRAP DOWNSTREAM OF PROPOSED WORK TO REESTABLISH CHANNEL SHAPE AND CREATE A SMOOTH TRANSITION.
3. CONTRACTOR TO VERIFY LOCATION AND CONDITION OF EXISTING 24" CMP AND 30" CMP AND NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF THE DOUBLE-SIDED INLET.
4. CONTRACTOR NOT TO DISTURB EXISTING RETAINING WALL ALONG THE WESTERN EDGE OF THE PARKING LOT.

STRUCTURAL FILL:

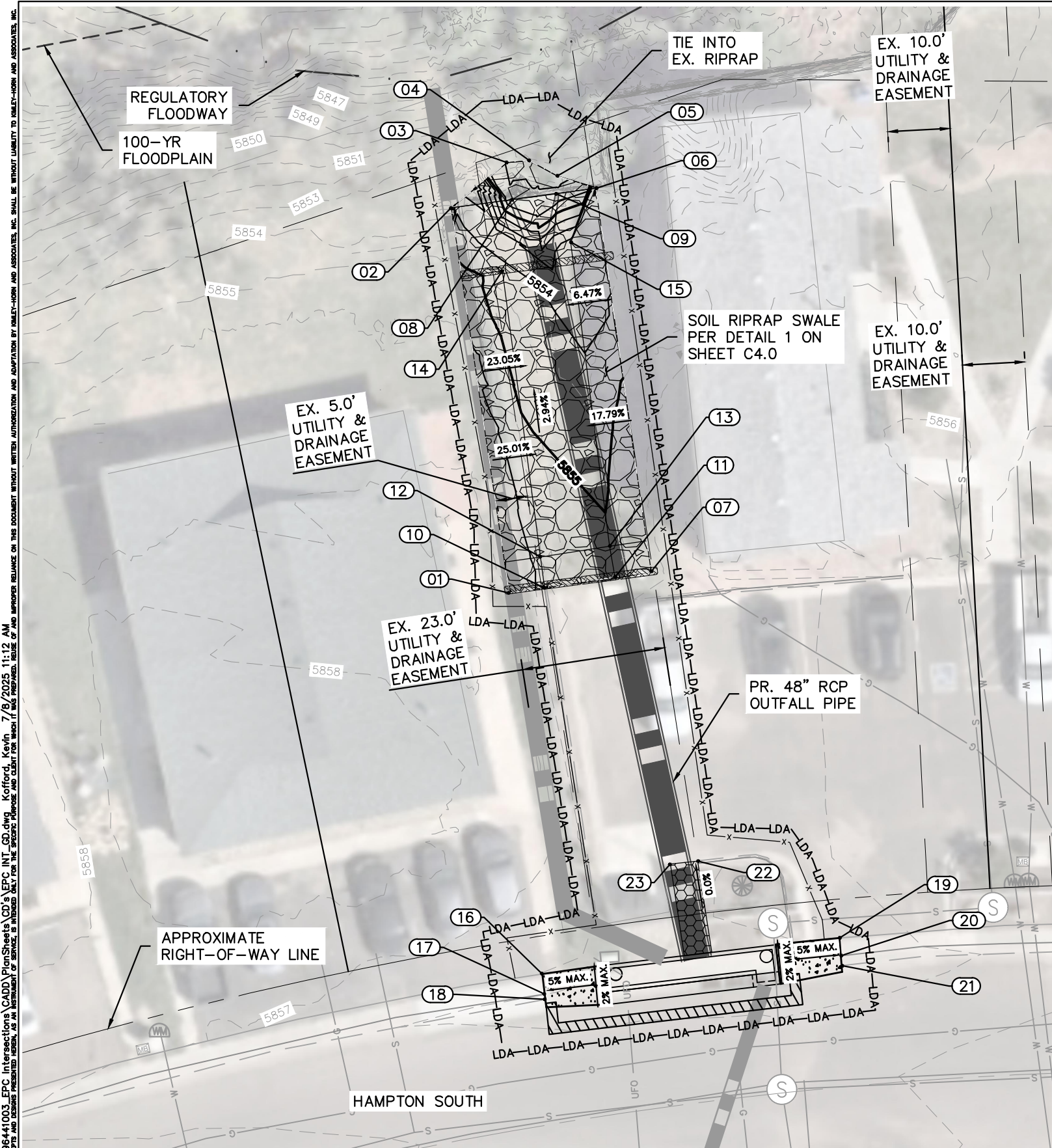
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HAMPTON OUTFALL PIPE PROFILE VIEW



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Drawing File Name:		Date:      Comments:      Init.							No Revisions:		Designer:    HMM		PROJECT NO	
<div>Kimley»Horn</div> <div>KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE. SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180</div>		(R-X)								Revised:		196441003		
		(R-X)								Detailer:    AME				
		(R-X)								Sheet Subset:		Subset Sheet:    3    of    4		
		(R-X)						Void:				Sheet Number    C2.2		



**STRUCTURAL FILL:**

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**GENERAL NOTES:**

1. ALL SUBSURFACE DISTURBANCE IS TO REMAIN WITHIN EXISTING RIGHT-OF-WAY AND EASEMENTS.

2. CONTRACTOR TO PLACE STABILIZED STAGING AREA, VEHICLE TRACKING PAD, CONCRETE WASH-OUT, PORTABLE TOILET, AND OTHER NECESSARY CONSTRUCTION CONTROL MEASURES AS NEEDED AND UPDATE PLAN ACCORDINGLY.

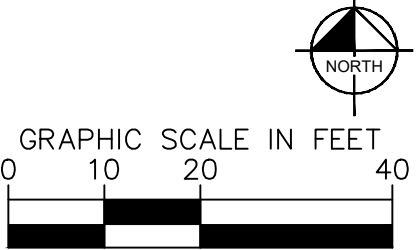
3. CONTRACTOR TO RESET ANY LOOSE EXISTING RIPRAP DOWNSTREAM OF NEW WORK TO REESTABLISH CHANNEL SHAPE AND CREATE A SMOOTH TRANSITION.

**LEGEND**

- XXXX --- EXISTING MINOR CONTOURS
- XXXX — PROPOSED MAJOR CONTOURS
- EXISTING STORM SEWER
- EXISTING INLET/MANHOLE
- PROPOSED STORM SEWER
- PROPOSED INLET/MANHOLE
- INLET PROTECTION
- CONSTRUCTION FENCE
- EROSION CONTROL LOG
- LDA-LDA-LDA-LDA LIMITS OF DISTURBANCE/ CONSTRUCTION

HAMPTON OUTFALL GRADING				
FL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
01	1342015.50	3200935.83	5857.03	FG/ME
02	1342077.14	3200928.55	5853.42	FG/ME
03	1342084.38	3200935.49	5847.89	FG/ME
04	1342084.68	3200939.08	5847.15	FG/ME
05	1342082.23	3200943.49	5847.53	FG/ME
06	1342080.26	3200949.73	5853.46	FG/ME
07	1342018.92	3200958.57	5855.71	FG/ME
08	1342078.51	3200936.33	5848.25	FES/RIPRAP
09	1342079.40	3200943.27	5848.24	FES/RIPRAP
10	1342018.30	3200941.48	5855.43	START OF SWALE
11	1342018.01	3200952.76	5855.15	START OF SWALE
12	1342021.26	3200940.84	5855.68	FG/BOTTOM OF SWALE
13	1342022.97	3200951.89	5855.21	FG/BOTTOM OF SWALE
14	1342067.08	3200934.72	5854.33	FG/BOTTOM OF SWALE
15	1342071.85	3200945.67	5853.31	FG/BOTTOM OF SWALE
16	1341954.54	3200941.12	5855.99	FG/ME - SIDEWALK
17	1341951.30	3200941.51	5856.02	FG/ME - FLOWLINE
18	1341950.48	3200941.60	5855.66	FG/ME - BACK OF CURB

HAMPTON OUTFALL GRADING				
FL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
19	1341960.28	3200968.70	5855.93	FG/ME - SIDEWALK
20	1341957.44	3200968.93	5855.94	FG/ME - FLOWLINE
21	1341955.86	3200969.05	5855.60	FG/ME - BACK OF CURB
22	1341972.61	3200965.99	5855.56	END CURB CHASE
23	1341972.12	3200961.62	5855.49	END CURB CHASE



APPROXIMATE LIMITS OF DISTURBANCE (HAMPTON AT ERICSON): 0.12 AC

Print Date: July 8, 2025

Drawing File Name:

Kimley»Horn

KIMLEY-HORN AND ASSOCIATES, INC.  
2 NORTH NEVADA AVE.  
SUITE 900  
COLORADO SPRINGS, COLORADO 80903  
(719) 453-0180

Sheet Revisions

Date:	Comments:	Init.
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(R-X)		
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(R-X)		

El Paso County

COLORADO

DEPARTMENT OF PUBLIC WORKS  
3275 AKERS DRIVE, COLORADO  
SPRINGS, CO 80922  
PHONE: (719) 520-6460

COLORADO REGISTERED  
58655  
Professional Engineer

FINAL DESIGN

No Revisions:

Revised:

Void:

HAMPTON AT ERICSON AND CALLE CORVO  
DRAINAGE IMPROVEMENTS  
COUNTY OF EL PASO, COLORADO  
HAMPTON GRADING PLAN

Designer: HMM

Detailer: AME

Sheet Subset: Subset Sheet: 4 of 4

Project No./Code

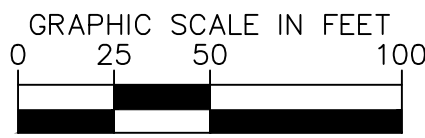
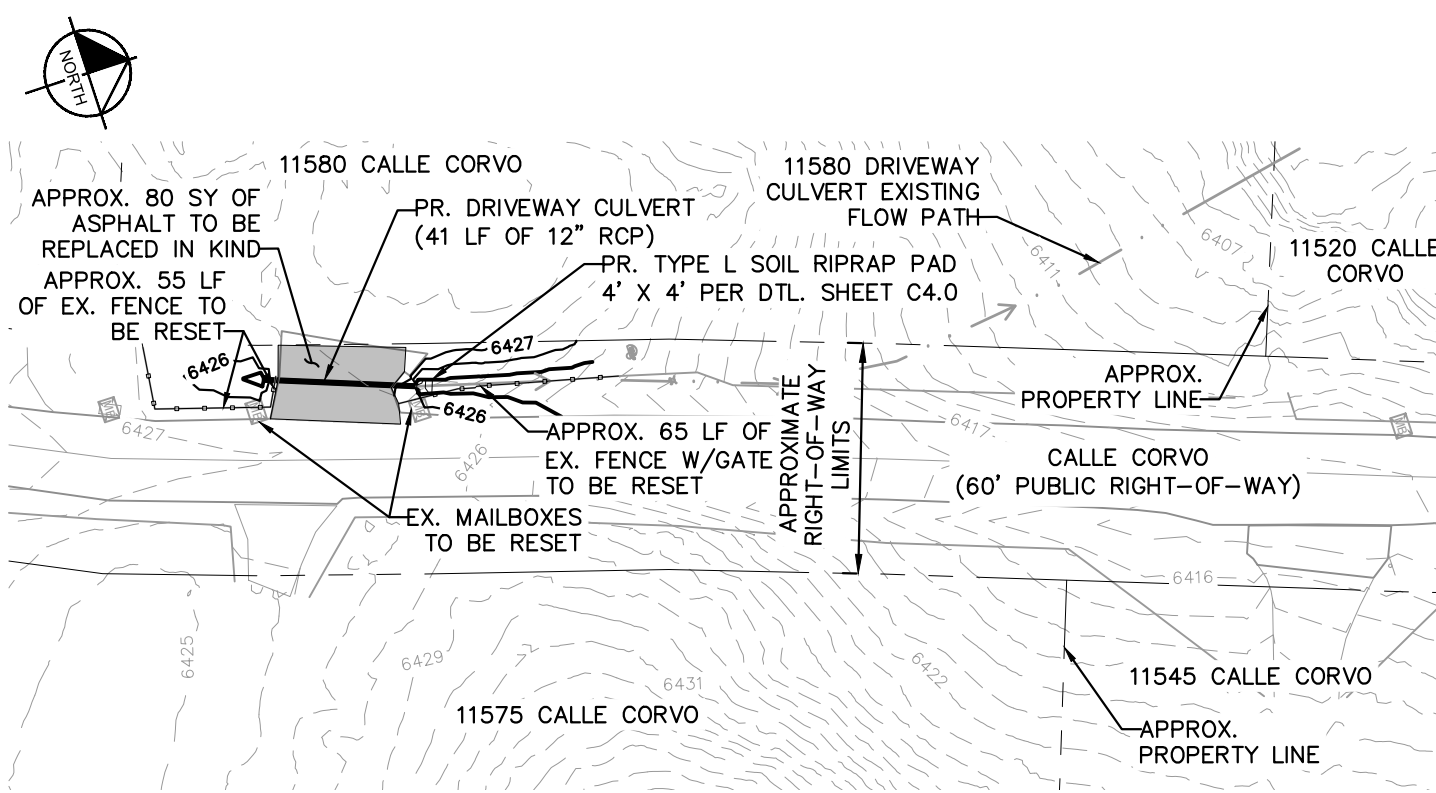
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Sheet Number C2.3



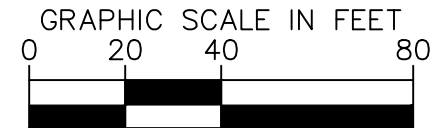
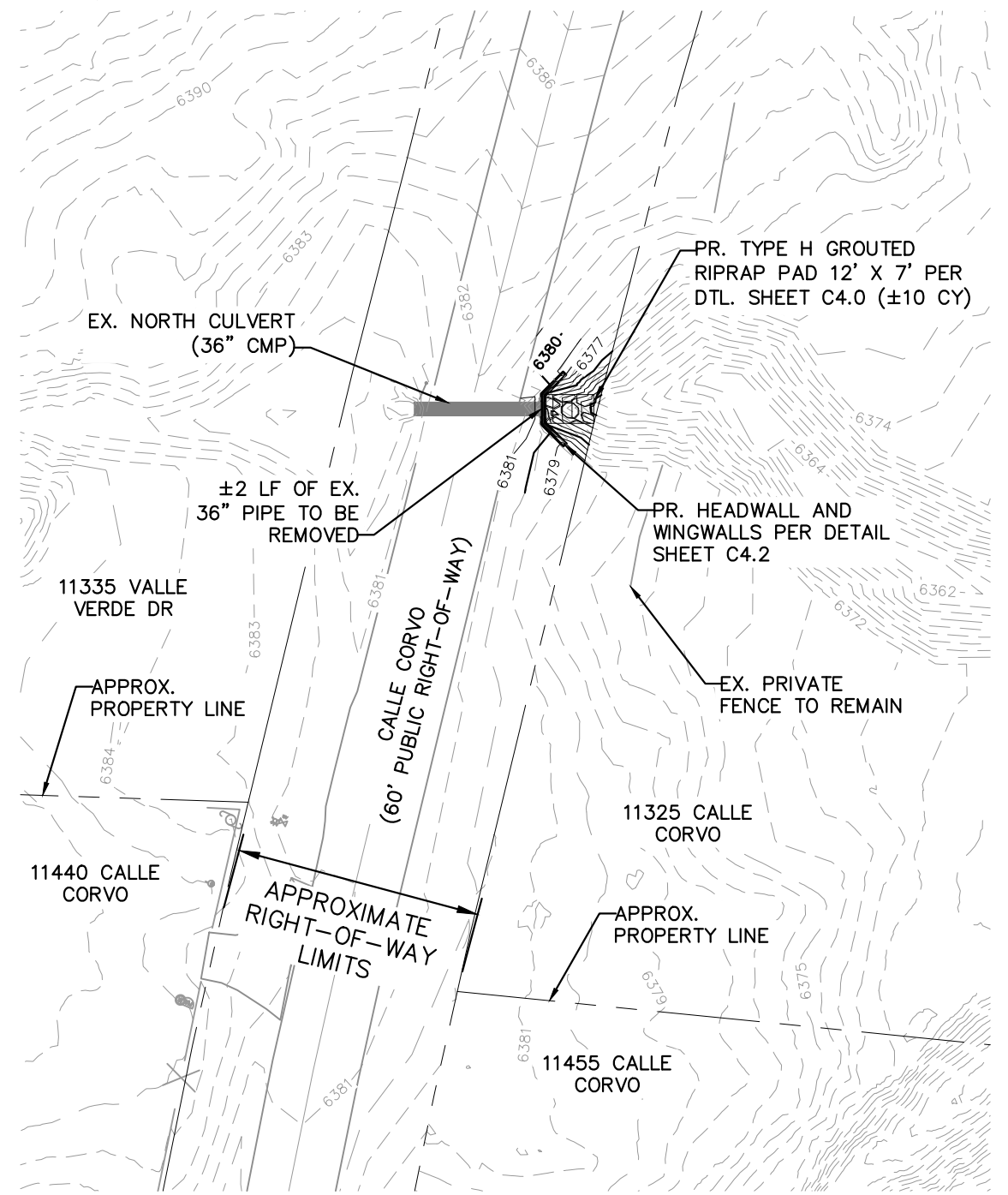
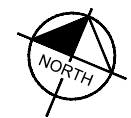
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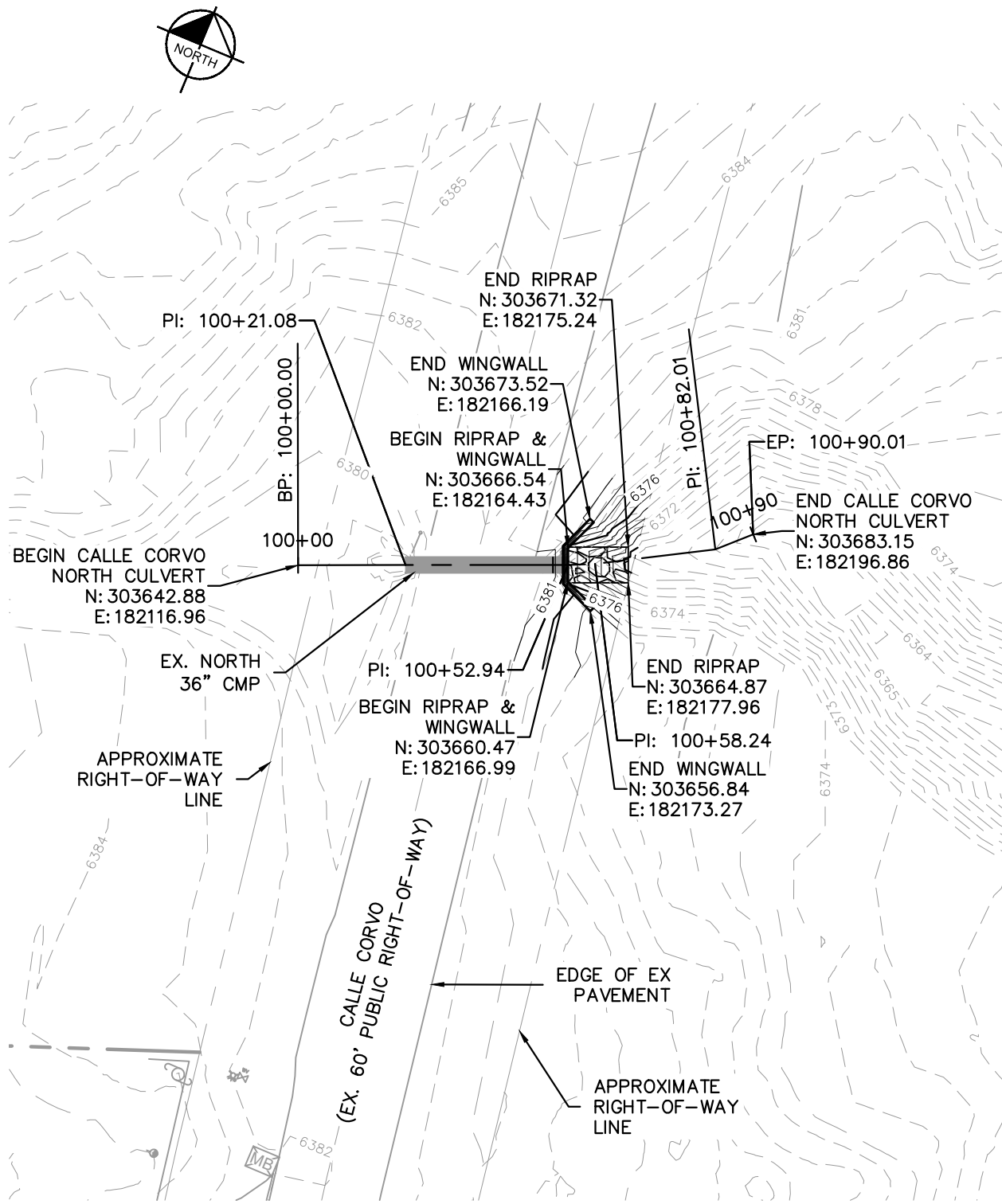
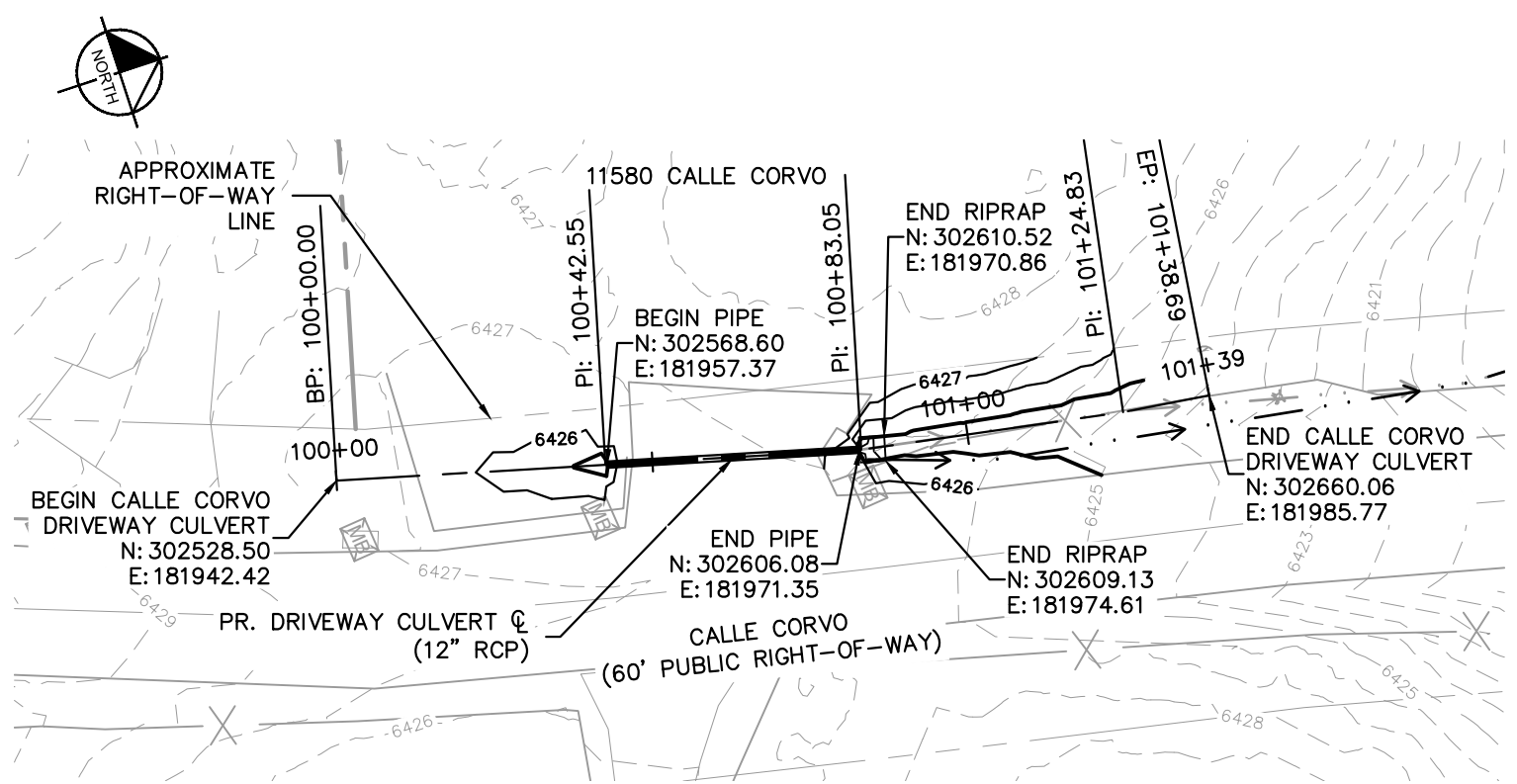
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  - PROPOSED STORM SEWER



Print Date: July 8, 2025		Sheet Revisions			 DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE, COLORADO SPRINGS, CO 80922 PHONE: (719) 520-6460		FINAL DESIGN		HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO CALLE CORVO IMPROVEMENT PLAN		Project No./Code	
Drawing File Name:		Date:	Comments:	Init.			No Revisions:		PROJECT NO			
 KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180		(R-X)					Designer:	HMM		196441003		
		(R-X)					Revised:					
		(R-X)					Void:					
		(R-X)					Detailer:	AME				
		Sheet Subset:		Subset Sheet:		1 of 5		Sheet Number C3.0				

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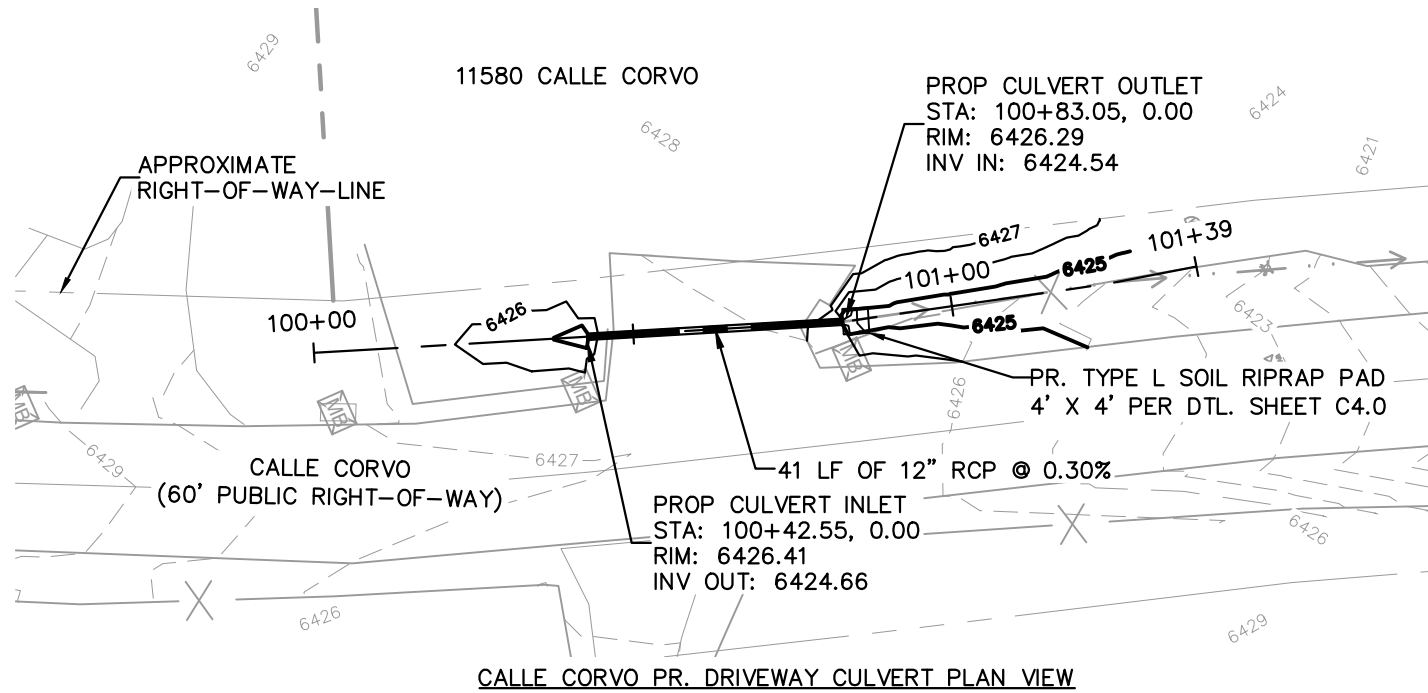
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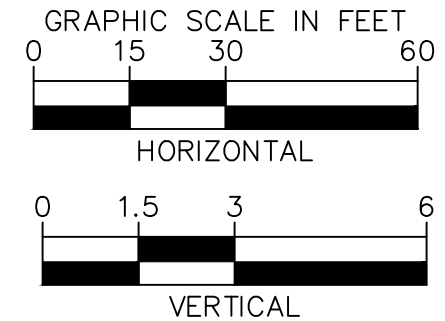
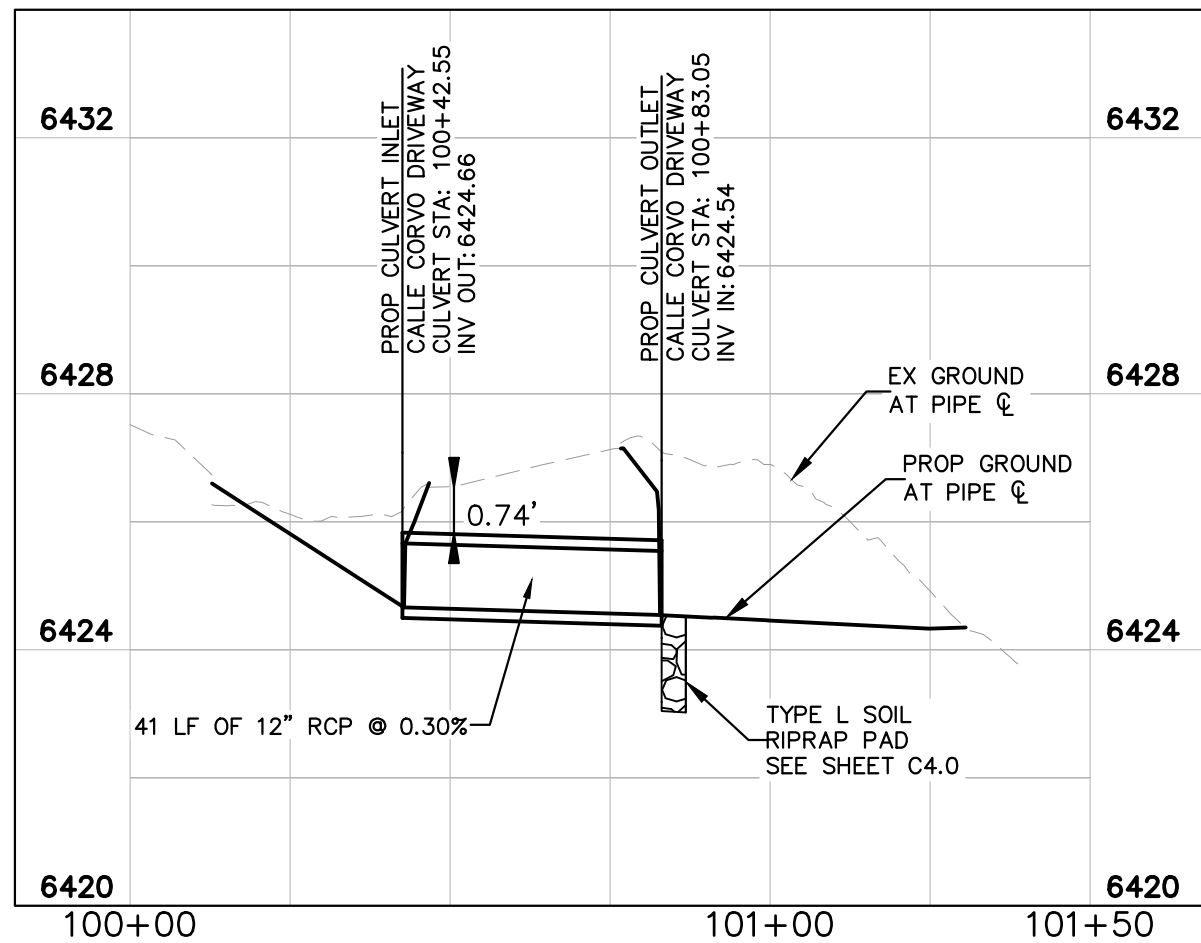


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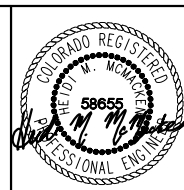
**Kimley»Horn**

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2 NORTH NEVADA AVE.,  
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COLORADO SPRINGS, COLORADO 80903  
(719) 453-0180

**Sheet Revisions**

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(R-X)		
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**El Paso County**  
COLORADO  
DEPARTMENT OF PUBLIC WORKS  
3275 AKERS DRIVE, COLORADO  
SPRINGS, CO 80922  
PHONE: (719) 520-6460



**FINAL DESIGN**

No Revisions:

Revised:

Void:

HAMPTON AT ERICSON AND CALLE CORVO  
DRAINAGE IMPROVEMENTS  
COUNTY OF EL PASO, COLORADO  
CALLE CORVO PLAN & PROFILE

Designer:

HMM

Detailer:

AME

Sheet Subset:

Subset Sheet:

3 of 5

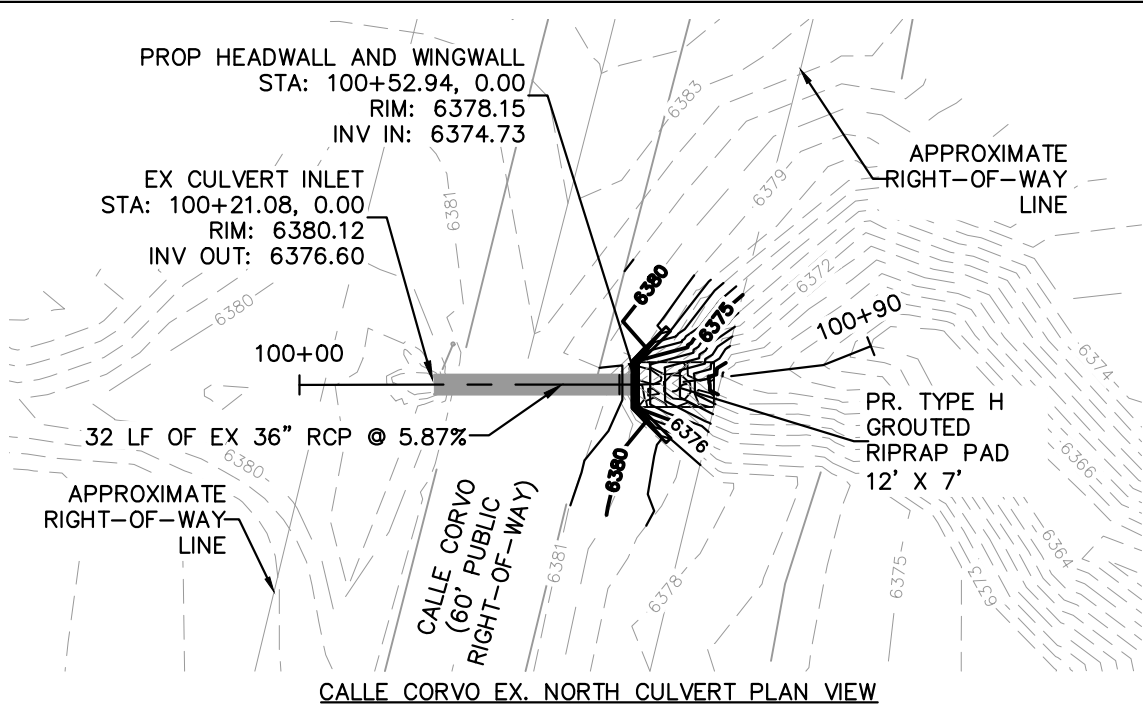
Project No./Code

PROJECT NO

196441003

Sheet Number C3.2

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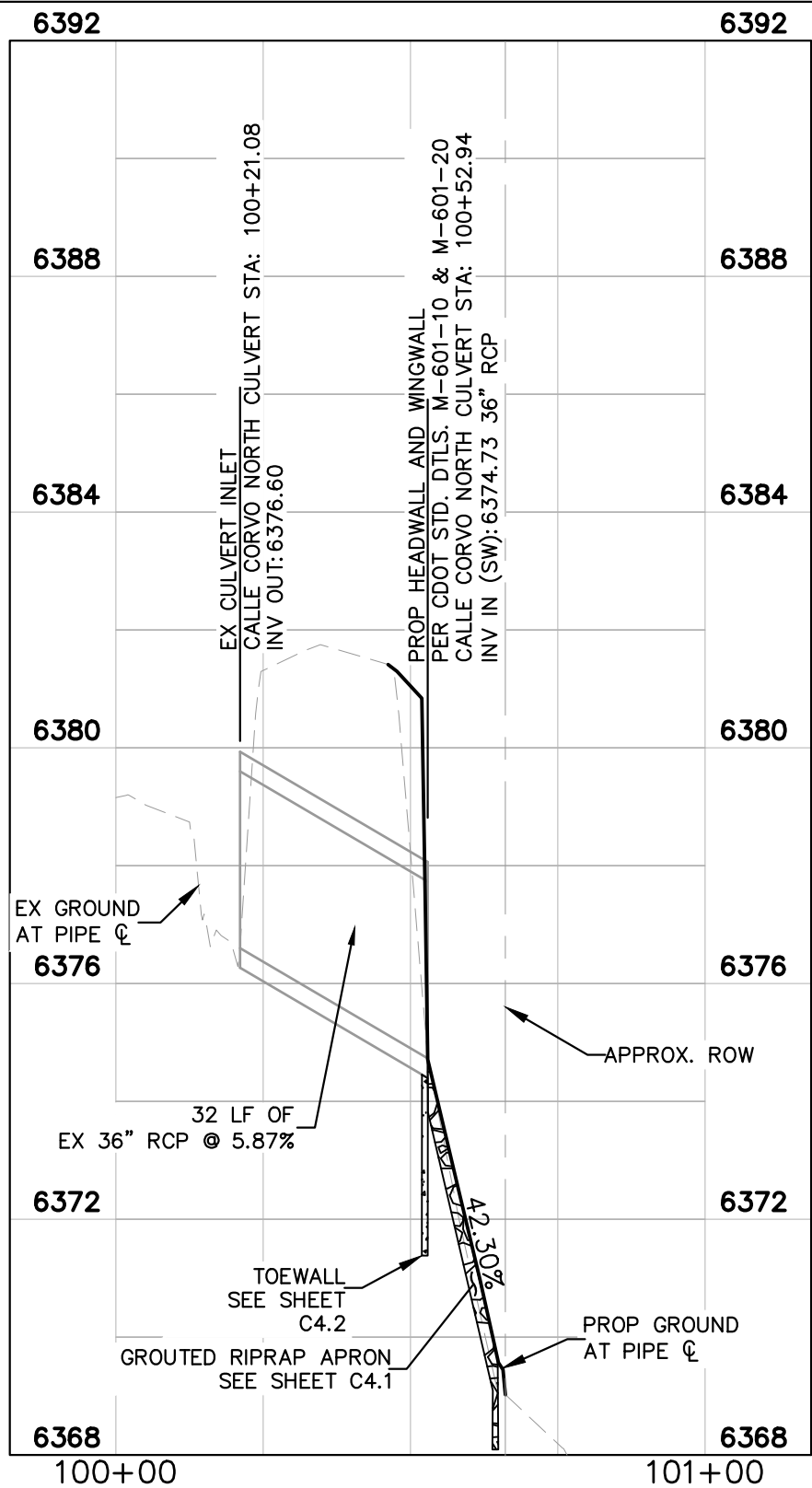
CALLE CORVO EX. NORTH CULVERT PLAN VIEW

GENERAL NOTES:

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CALLE CORVO EX. NORTH CULVERT PROFILE VIEW



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VERTICAL



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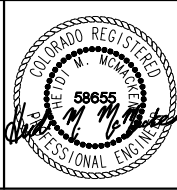
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SPRINGS, CO 80922  
PHONE: (719) 520-6460



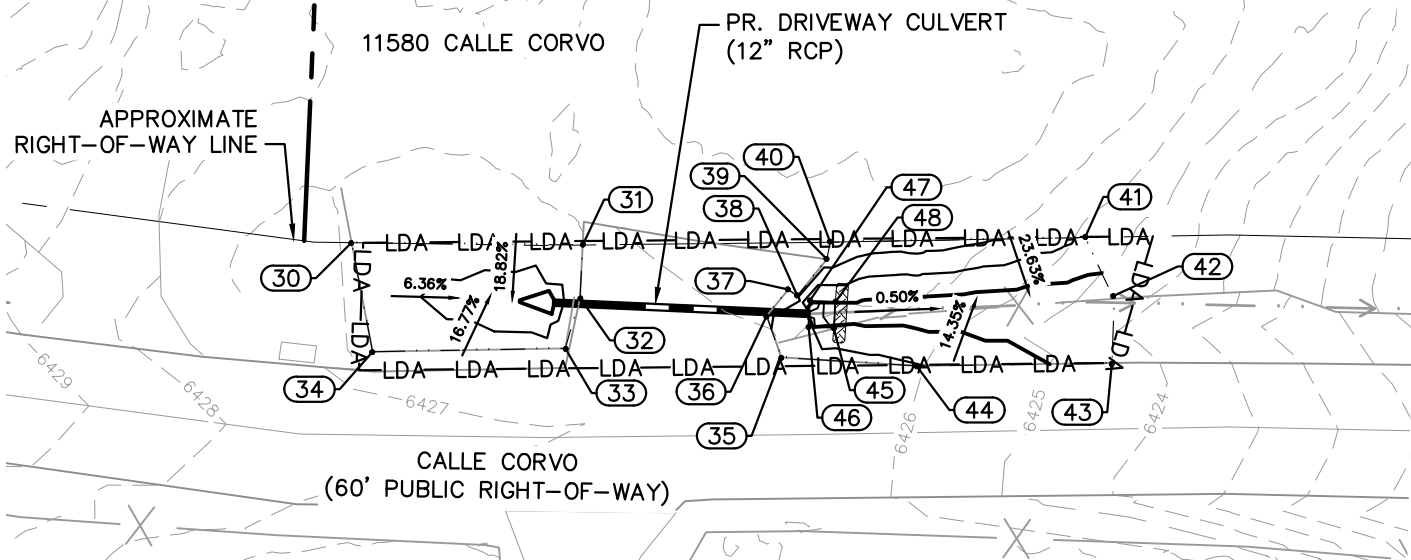
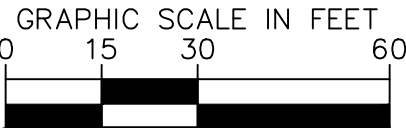
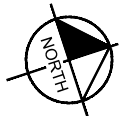
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Void:	

HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO CALLE CORVO PLAN & PROFILE			
Designer:	HMM		
Detailer:	AME		
Sheet Subset:		Subset Sheet:	4 of 5

Project No./Code	
PROJECT NO	
196441003	
Sheet Number	C3.3



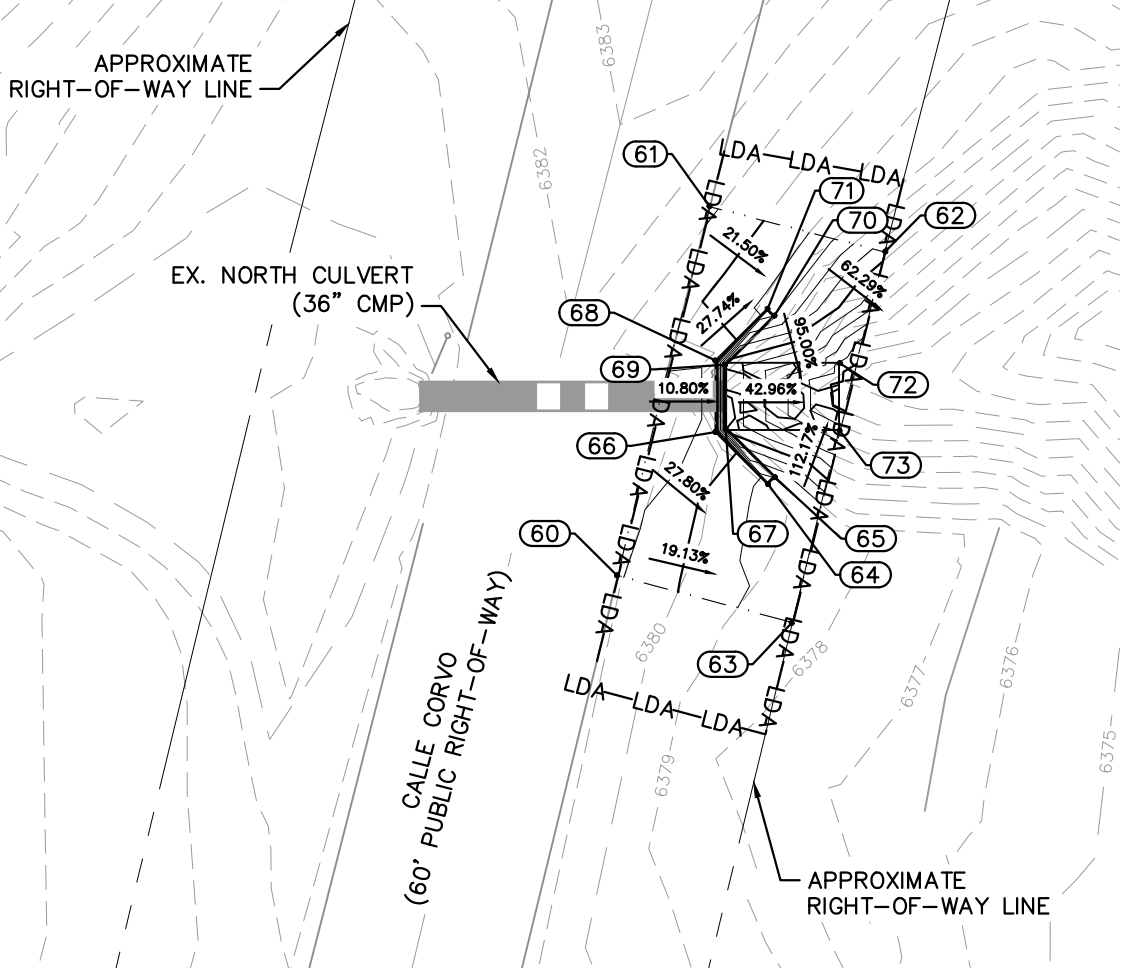
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CALLE CORVO DRIVEWAY CULVERT GRADING				
FL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
30	302541.50	181938.73	6426.57	FG/ME
31	302575.75	181950.22	6426.91	FG/ME
32	302572.80	181957.97	6426.80	FG/ME
33	302568.18	181964.74	6426.63	FG/ME
34	302539.38	181955.94	6426.63	FG/ME
35	302599.87	181976.49	6426.71	FG/ME
36	302599.67	181969.63	6427.13	FG/ME
37	302604.17	181966.73	6427.21	FG/ME
38	302605.20	181968.11	6427.21	FG/ME
39	302611.36	181964.10	6427.47	FG/ME
40	302612.66	181961.72	6427.62	FG/ME
41	302650.77	181973.31	6425.81	FG/ME
42	302652.05	181983.37	6424.41	FG/ME
43	302648.70	181993.31	6424.50	FG/ME
44	302619.53	181984.26	6426.06	FG/ME
45	302609.08	181974.59	6425.10	RIPRAP
46	302605.38	181973.21	6426.39	RIPRAP
47	302606.78	181969.47	6425.40	RIPRAP
48	302610.52	181970.86	6425.03	RIPRAP

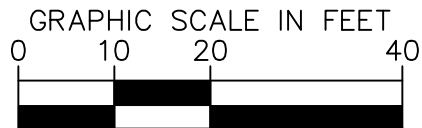
CALLE CORVO OUTFALL GRADING				
FL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
60	303641.89	182162.62	6381.11	FG/ME
61	303681.05	182156.54	6381.18	FG/ME
62	303683.79	182175.14	6375.36	FG/ME
63	303644.50	182181.27	6378.40	FG/ME
64	303656.84	182173.27	6378.74	HEADWALL/WINGWALL
65	303657.76	182173.64	6377.90	HEADWALL/WINGWALL
66	303659.70	182166.23	6380.84	HEADWALL/WINGWALL
67	303680.47	182166.99	6374.71	HEADWALL/RIPRAP
68	303666.53	182163.35	6380.84	HEADWALL/WINGWALL
69	303666.54	182164.43	6374.71	HEADWALL/RIPRAP
70	303673.14	182167.12	6377.97	HEADWALL/WINGWALL
71	303673.52	182166.19	6378.75	HEADWALL/WINGWALL
72	303671.32	182175.24	6370.96	RIPRAP
73	303664.87	182177.96	6371.32	RIPRAP

- APPROXIMATE LIMITS OF DISTURBANCE (CALLE CORVO): 0.08 AC  
STRUCTURAL FILL:
- STRUCTURES SHALL REST ON AT LEAST 12 INCHES OF PROPERLY COMPACTED STRUCTURAL FILL AREA BENEATH FOOTING SHALL BE EXCAVATED TO A DEPTH OF 12 INCHES OR MORE BELOW THE PROPOSED STRUCTURE. THE BOTTOM OF ALL EXCAVATION SHOULD THEN BE MOISTURE TREATED TO A DEPTH OF AT LEAST 6 INCHES, BROUGHT TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D1557 PRIOR TO REFILLING THE EXCAVATION TO THE REQUIRED GRADE WITH PROPERLY COMPACTED STRUCTURAL FILL.



## LEGEND

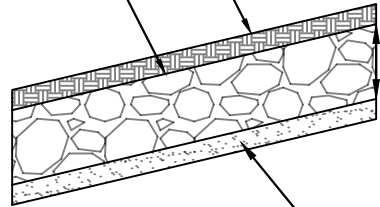
- XXXX --- EXISTING MINOR CONTOURS
- XXXX — PROPOSED MAJOR CONTOURS
- EXISTING STORM SEWER
- EXISTING INLET/MANHOLE
- PROPOSED STORM SEWER
- PROPOSED INLET/MANHOLE
- INLET PROTECTION
- CONSTRUCTION FENCE
- EROSION CONTROL LOG
- LIMITS OF DISTURBANCE/ CONSTRUCTION



- GENERAL NOTES:
- ALL LIMITS OF CONSTRUCTION/AREAS OF DISTURBANCE TO REMAIN WITHIN EXISTING RIGHT-OF-WAY AND EASEMENTS.
  - CONTRACTOR TO PLACE STABILIZED STAGING AREA, VEHICLE TRACKING PAD, CONCRETE WASH-OUT, PORTABLE TOILET, AND OTHER NECESSARY CONSTRUCTION CONTROL MEASURES AS NEEDED AND UPDATE PLAN ACCORDINGLY.



Print Date: July 8, 2025	<div>Kimley»Horn</div> <div>KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180</div>	Sheet Revisions			<div>El Paso County</div> <div>COLORADO</div> <div>DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE, COLORADO SPRINGS, CO 80922 PHONE: (719) 520-6460</div>	<div>COLORADO REGISTERED HEIDI M. MEMMERT 59655 PROFESSIONAL ENGINEER</div>	FINAL DESIGN	HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO CALLE CORVO GRADING PLAN		Project No./Code
Drawing File Name:		Date:	Comments:	Init.			No Revisions:	Designer: HMM		PROJECT NO
							Revised:	Detailer: AME		196441003
							Void:	Sheet Subset:	Subset Sheet: 5 of 5	Sheet Number C3.4



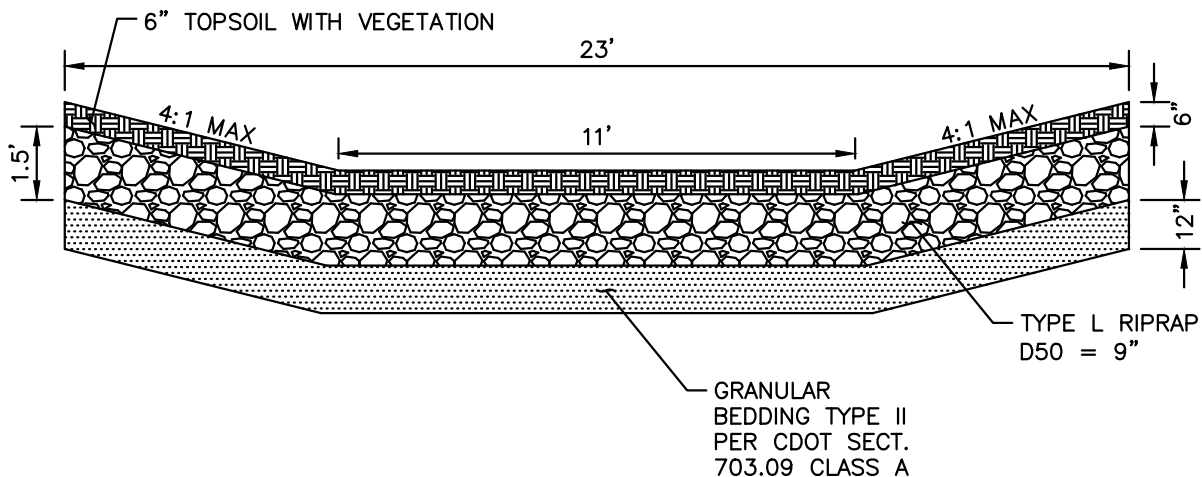
GRANULAR  
BEDDING TYPE II  
PER CDOT SECT.  
703.09 CLASS A

SOIL RIPRAP NOTES:

1. ELEVATION TOLERANCES FOR THE SOIL RIPRAP SHALL BE 0.10 FEET. THICKNESS OF SOIL RIPRAP SHALL BE NO LESS THAN THICKNESS SHOWN AND NO MORE THAN 2-INCHES GREATER THAN THE THICKNESS SHOWN.
2. WHERE "SOIL RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP VOIDS ARE TO BE FILLED WITH NATIVE SOIL AT THE FOLLOWING PROPORTIONS BY VOLUME: 65% RIPRAP AND 35% SOIL. THE SOIL USED FOR MIXING SHALL BE NATIVE TOPSOIL AND SHALL HAVE A MINIMUM FINES CONTENT OF 15% . THE SOIL RIPRAP SHALL BE INSTALLED IN A MANNER THAT RESULTS IN A DENSE, INTERLOCKED LAYER OF RIPRAP WITH RIPRAP VOIDS FILLED COMPLETELY WITH SOIL. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF SOIL; THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT SOIL.
3. WHERE SPECIFIED (TYPICALLY AS "BURIED SOIL RIPRAP"), A SURFACE LAYER OF TOPSOIL SHALL BE PLACED OVER THE SOIL RIPRAP ACCORDING TO THE THICKNESS SPECIFIED ON THE CONTRACT DRAWINGS. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
4. ALL SOIL RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.
5. TOPSOIL TO BE PLACED ATOP SOIL RIPRAP AND CONTRACTOR TO ENSURE PERMANENT SEEDING IS APPLIED TO ALL SOIL RIPRAP. CONTRACTOR TO ENSURE FINAL VEGETATION STANDARDS ARE MET PER EL PASO COUNTY REQUIREMENTS.
6. CONTRACTOR TO ENSURE MULCH IS INSTALLED WITH PERMANENT SEEDING. CRIMP OR TACKIFY MULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
7. RIPRAP SHALL BE PLACED SO THAT TOP OF RIPRAP IS FLUSH WITH PROPOSED OR EXISTING GRADE.
8. AT THE UPSTREAM AND DOWNSTREAM TERMINATION OF RIPRAP LINING, THE THICKNESS SHALL BE INCREASED 50% FOR AT LEAST 3 LINEAR FEET TO PREVENT UNDERCUTTING.
9. THE PLACEMENT OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.

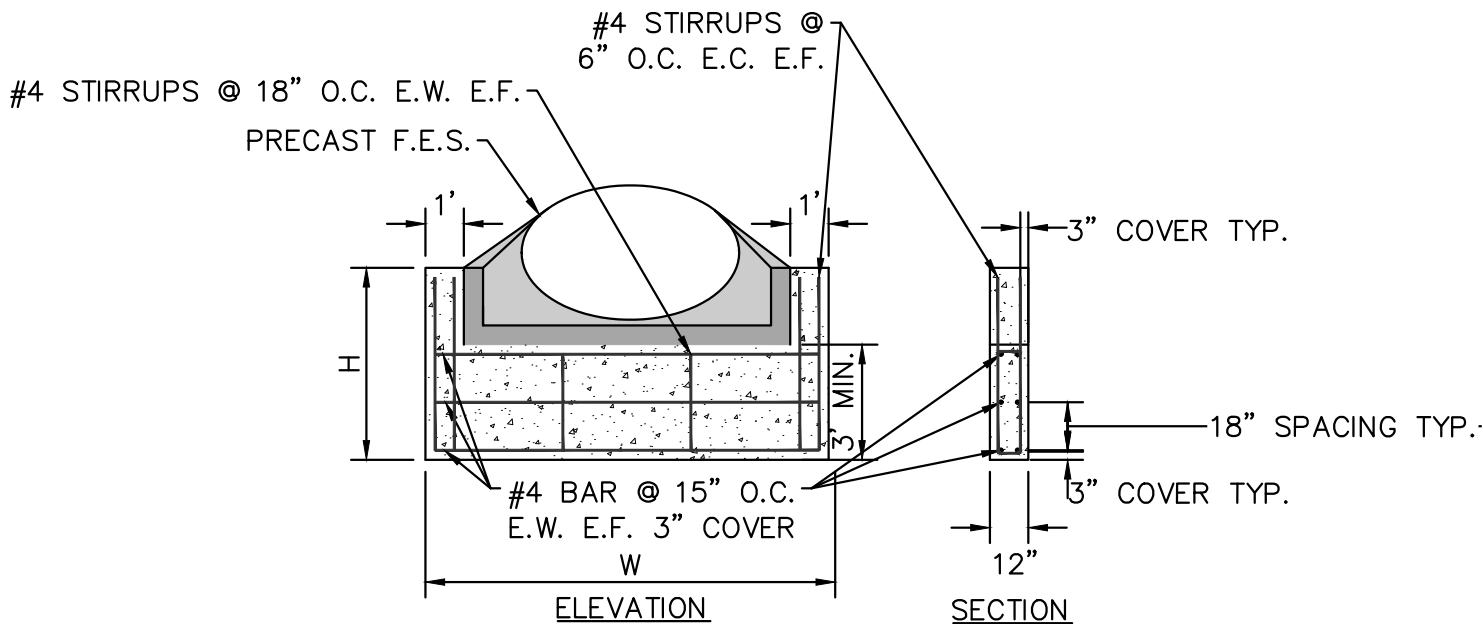
GRADATION FOR GRANULAR BEDDING	
U.S. STANDARD SIEVE SIZE	TYPE II CDOT SECT. 703.09 CLASS A
3 INCHES	90 – 100
1½ INCHES	–
¾ INCHES	20 – 90
⅝ INCHES	–
#4	0 – 20
#16	–
#50	–
#100	–
#200	0 – 3

1 SOIL RIPRAP DETAILS  
N.T.S.



NOTE:  
ALL DISTURBANCE  
TO REMAIN WITHIN  
EXISTING EASEMENT

2 SOIL RIPRAP LINED SWALE TYPICAL SECTION  
N.T.S.



NOTES:

1. INSTALL CUTOFF WALLS UNDER ALL FLARED END SECTIONS.
2. REFER TO SIZE CHART ABOVE FOR PROPER SIZE
3. REFER TO CDOT STANDARD DRAWING M-603-10 FOR FLARED-END SECTION DETAILS
4. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI MINIMUM.

CUTOFF WALL SIZE CHART		
PIPE I.D. (IN)	H (FT)	W (FT)
36"	4.50'	8.00'
48"	5.50'	9.00'

3 FLARED END SECTION  
N.T.S.

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Drawing File Name:						PROJECT NO					
						196441003					
						Sheet Number C4.0					
<div><div>Kimley»Horn</div><div>KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 800 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180</div></div>		<div>(R-X)</div>									
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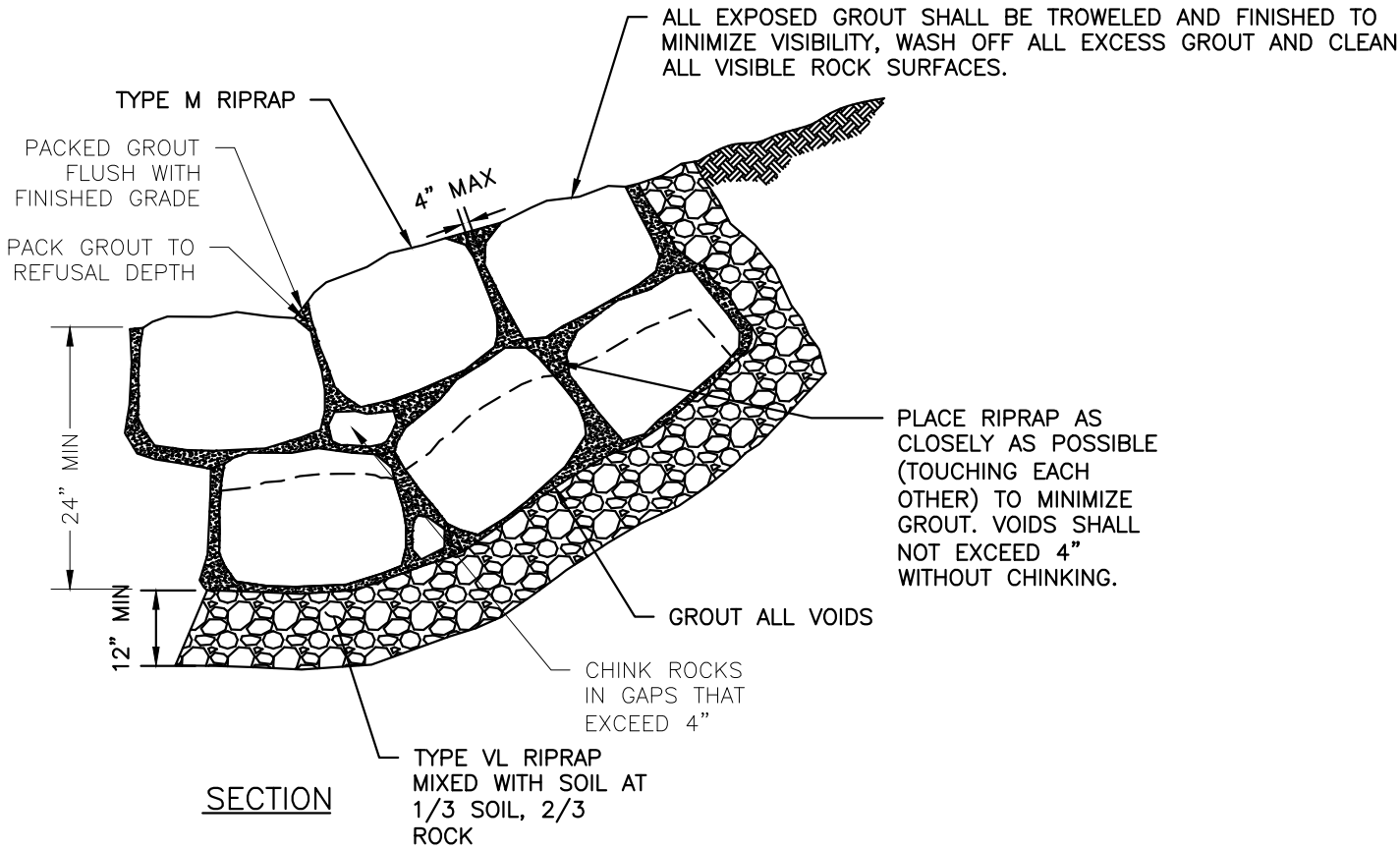
TABLE 3. GROUTED RIPRAP PLACEMENT AND GRADATION			
RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D <sub>50</sub> * (INCHES)
TYPE VL	70 – 100	12	6
	50 – 70	9	
	35 – 50	6	
	2 – 10	2	
TYPE M	70 – 100	21	12
	50 – 70	18	
	35 – 50	12	
	2 – 10	4	

\*D<sub>50</sub> = MEAN ROCK SIZE

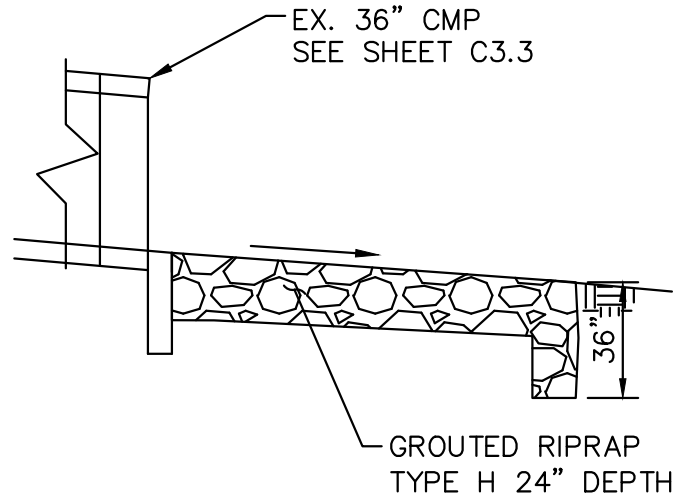
NOTE: MIX ON SITE AND PRIOR TO PLACEMENT

RIPRAP NOTES:

1. RIPRAP SHALL BE PLACED SO THAT TOP OF RIPRAP IS FLUSH WITH PROPOSED OR EXISTING GRADE.
2. AT THE UPSTREAM AND DOWNSTREAM TERMINATION OF RIPRAP LINING, THE THICKNESS SHOULD BE INCREASED 50% FOR AT LEAST 3 LINEAR FEET TO PREVENT UNDERCUTTING.
3. THE PLACEMENT OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
4. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS RIPRAP.
5. DO NOT PLACE MORTAR OR GROUT WHEN THE AIR TEMPATURE IS BELOW 35 DEGREES FAHRENHEIT.
6. PROTECT WORK FROM RAPID DRYING FOR AT LEAST 3 DAYS AFTER PLACEMENT.
7. PLACE STONES TO CREATE A UNIFORM FINISHED TOP SURFACE, DO NOT EXCEED A 6-INCH VARIATION BETWEEN THE TOPS OF ADJACENT STONES. REPLACE, EMBED DEEPER, OR CHIP AWAY STONES THAT PROJECT MORE THAN THE ALLOWABLE AMOUNT ABOVE THE FINISHED SURFACE.
8. PREVENT EARTH, STONE, OR FOREIGN MATERIAL FROM FILLING THE SPACES BETWEEN THE STONES. AFTER THE STONES ARE IN PLACE, THOROUGHLY WET THE STONES, FILL THE SPACES BETWEEN THE STONES WITH GROUT, AND PACK. SWEEP THE SURFACE OF THE RIPRAP WITH A STIFF BROOM AFTER GROUTING.
9. RIPRAP ON SLOPES:
  - 9.1. PLACE STONES WITH CLOSE JOINTS SO THAT THEIR WEIGHT IS CARRIED BY THE EARTH AND NOT BY THE ADJACENT STONES.
  - 9.2. PLACE EACH STONE FROM THE BOTTOM OF THE EMBANKMENT UPWARD WITH THE LARGER STONES IN THE LOWER COURSES.



4 GROUTED RIPRAP  
N.T.S.



GROUTED RIPRAP APRON NOTES:

1. RIPRAP SHALL BE PLACED SO THAT TOP OF RIPRAP IS FLUSH WITH PROPOSED OR EXISTING GRADE.
2. AT THE UPSTREAM AND DOWNSTREAM TERMINATION OF RIPRAP LINING, THE THICKNESS SHOULD BE INCREASED 50% FOR AT LEAST 3 LINEAR FEET TO PREVENT UNDERCUTTING.
3. THE PLACEMENT OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
4. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ACROSS TOP OF RIPRAP.
5. THE APRON SHALL BE KEYED IN A MINIMUM OF 1' BELOW SPECIFIED DEPTH ALONG THE ENTIRE PERIMETER.

5 GROUTED RIPRAP APRON DETAIL  
N.T.S.



Print Date: July 8, 2025

Drawing File Name:

**Kimley»Horn**

KIMLEY-HORN AND ASSOCIATES, INC.  
2 NORTH NEVADA AVE.,  
SUITE 900  
COLORADO SPRINGS, COLORADO 80903  
(719) 453-0180

Sheet Revisions

Date:	Comments:	Init.
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**El Paso County**  
COLORADO

DEPARTMENT OF PUBLIC WORKS  
3275 AKERS DRIVE, COLORADO  
SPRINGS, CO 80922  
PHONE: (719) 520-6460



FINAL DESIGN

No Revisions:

Revised:

Void:

HAMPTON AT ERICSON AND CALLE CORVO  
DRAINAGE IMPROVEMENTS  
COUNTY OF EL PASO, COLORADO  
DETAILS

Designer: HMM

Detailer: AME

Sheet Subset:

Subset Sheet: 2 of 8

Project No./Code

PROJECT NO

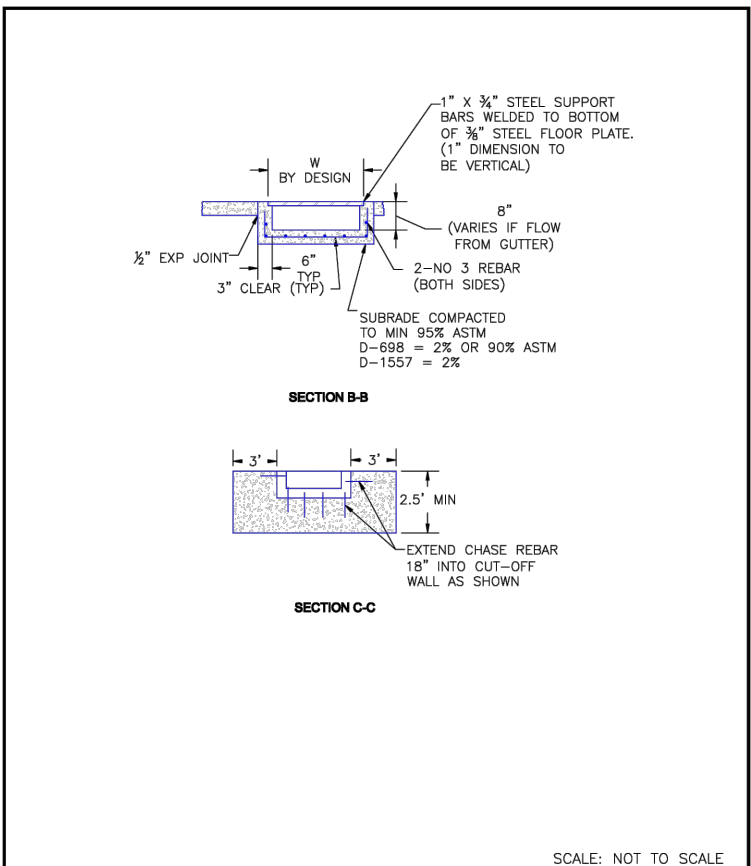
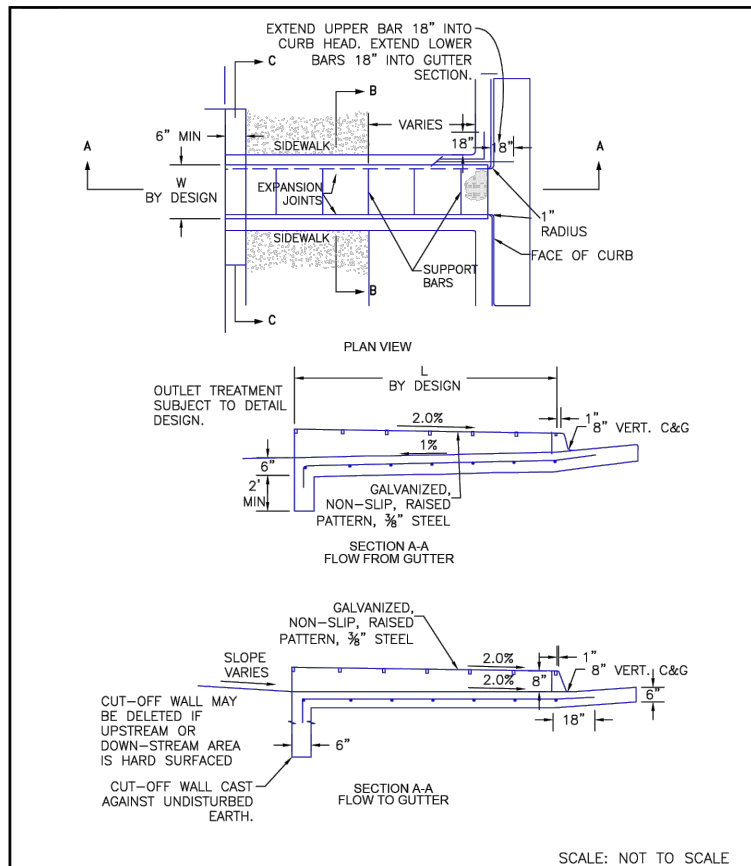
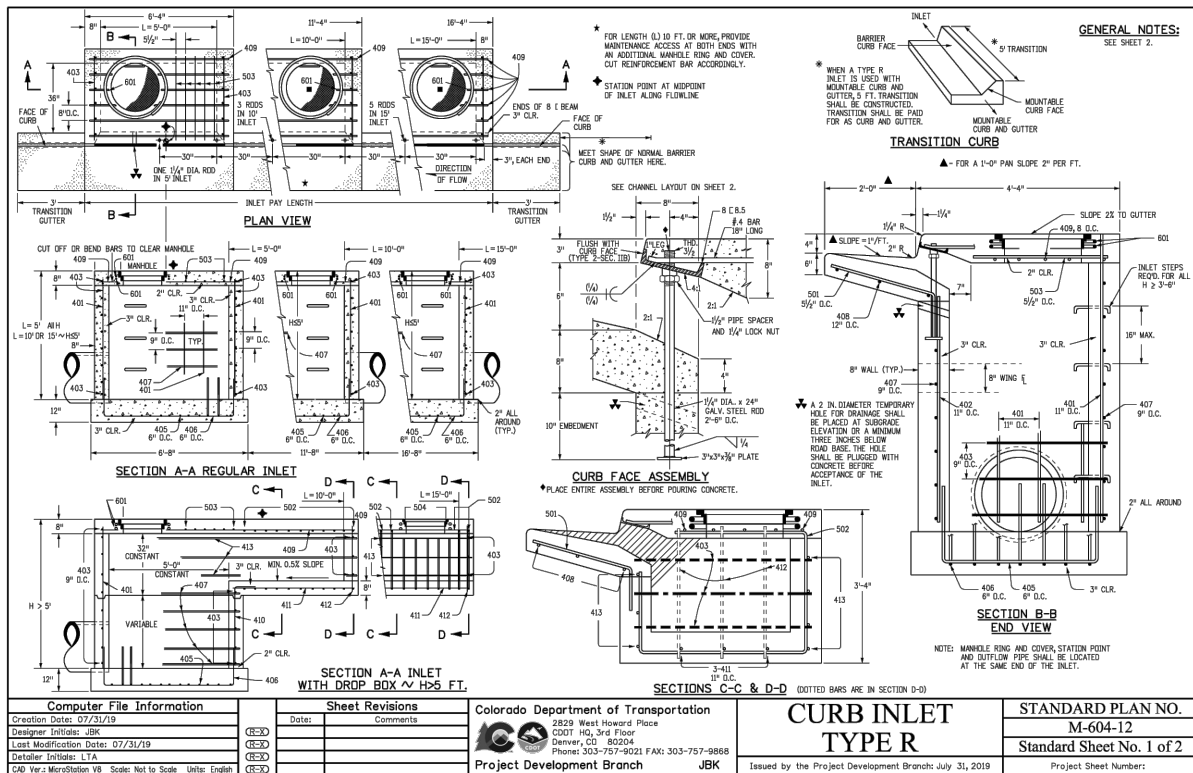
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Sheet Number C4.1

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Project No./Code	
PROJECT NO	
196441003	
Sheet Number	C4.2



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8/11/11 DATE APPROVED:		Curb Opening with Drainage Chase Detail 1 of 2 Standard Drawing			
André P. Brackin DEPARTMENT OF TRANSPORTATION		REVISION DATE: 12/8/15		FILE NAME: SD_3-25	

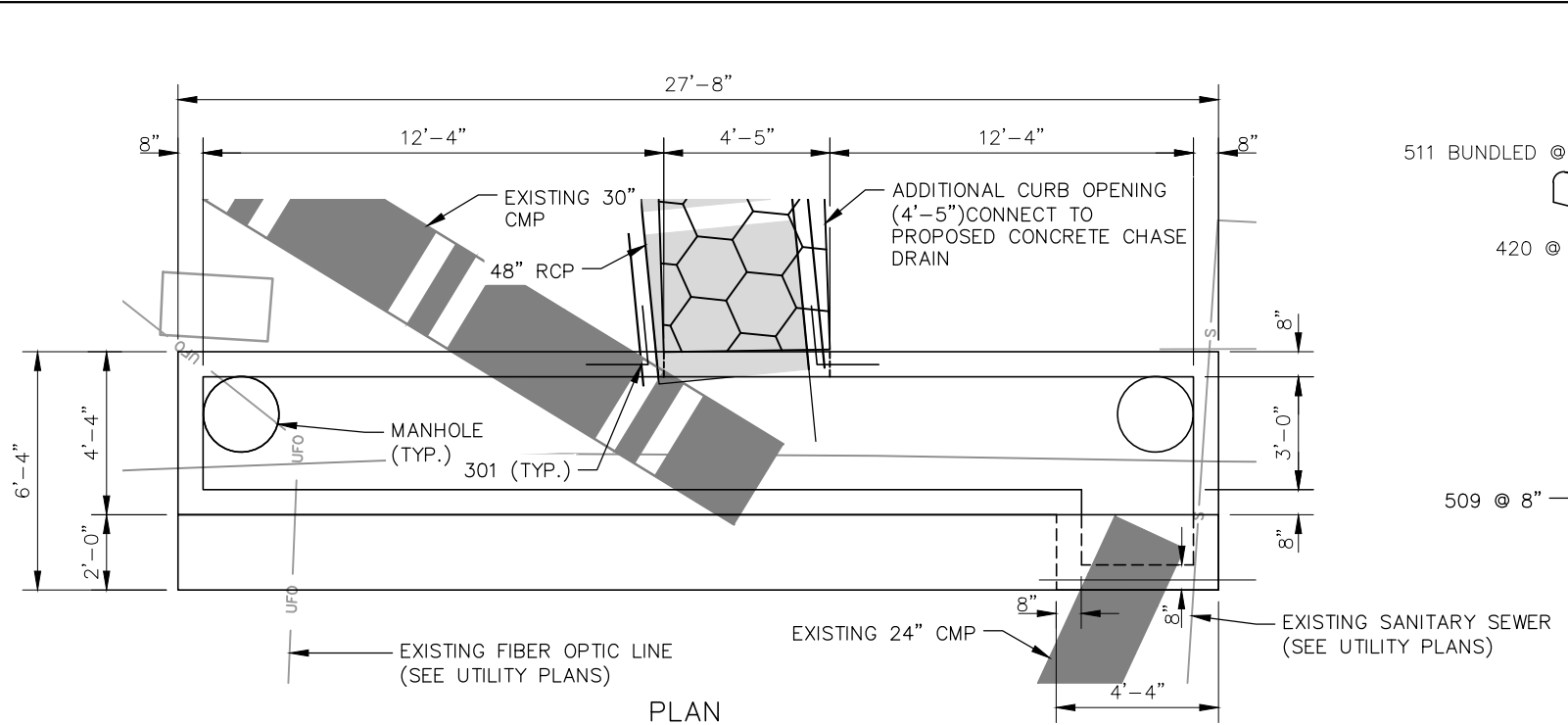
8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	CURB OPENING WITH DRAINAGE CHASE DETAIL 2 OF 2 STANDARD DRAWING REVISION DATE: 11/10/04	FILE NAME: SD_3-25A	
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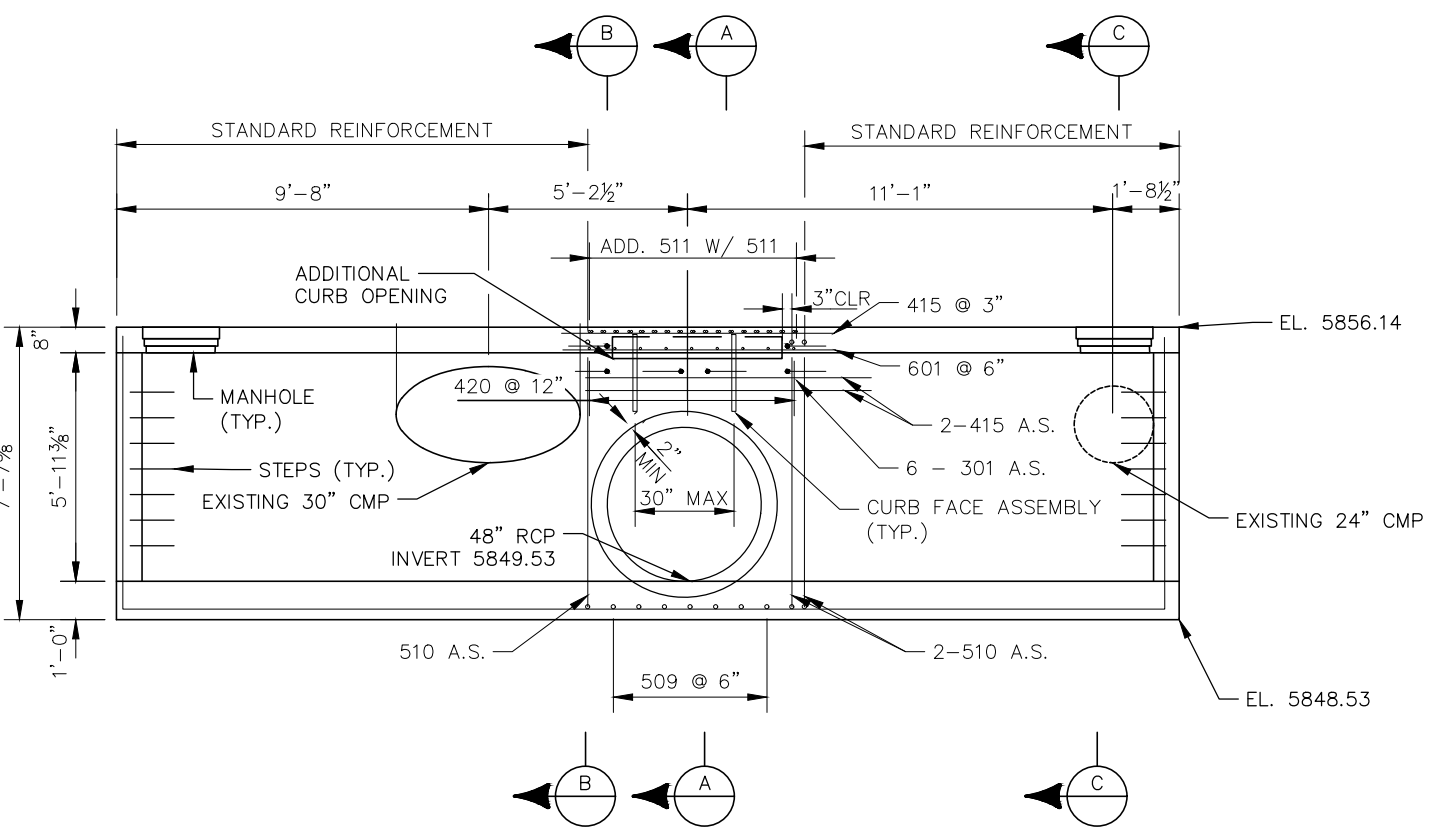




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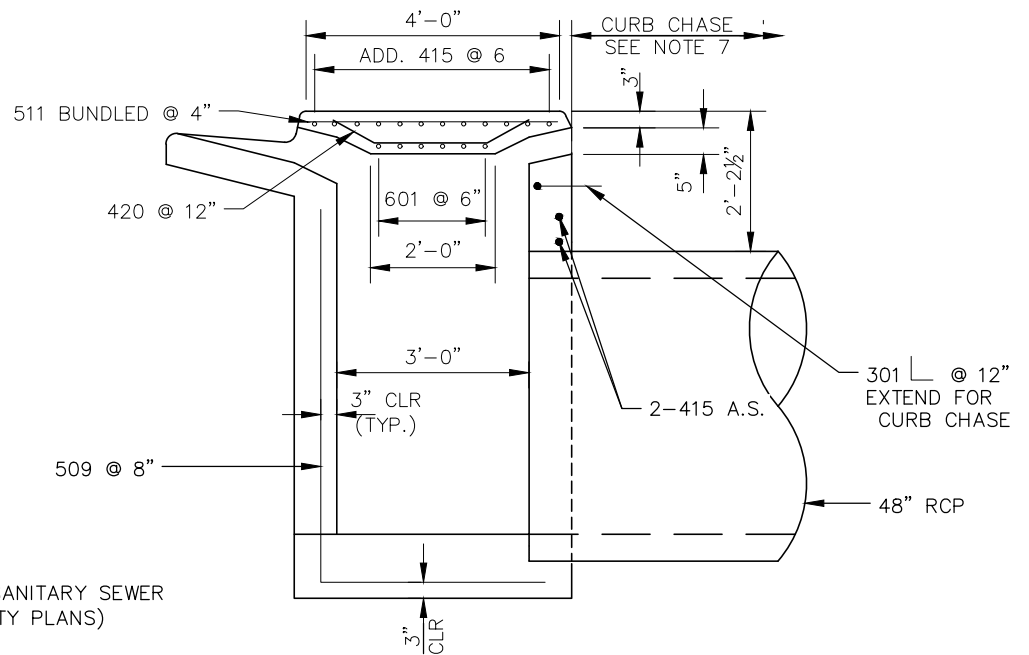


PLAN



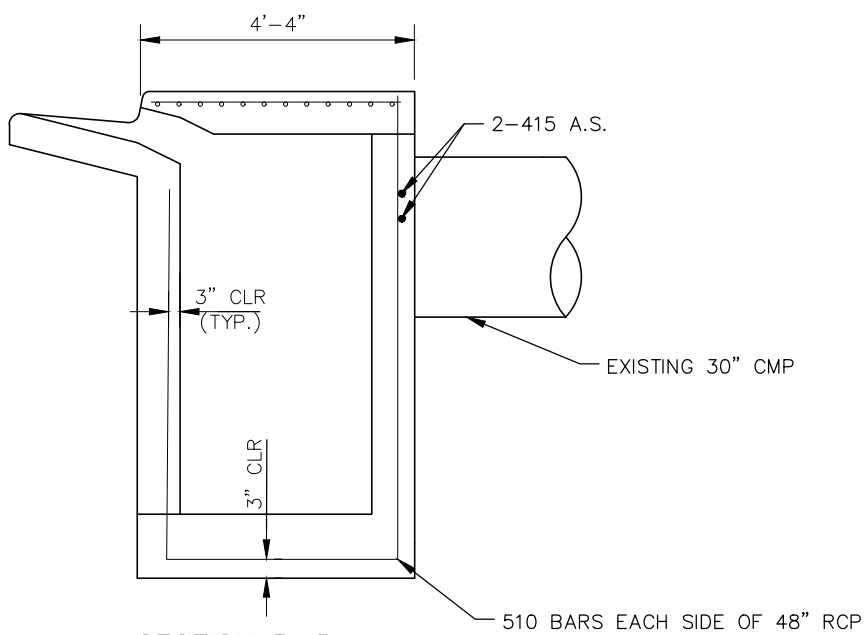
ELEVATION

SEE SHEET C4.7 FOR REINFORCEMENT NOT SHOWN



SECTION A-A

CURB FACE ASSEMBLY NOT SHOWN FOR CLARITY  
SEE SHEET C4.7 FOR REINFORCEMENT NOT SHOWN



SECTION B-B

CURB FACE ASSEMBLY NOT SHOWN FOR CLARITY  
SEE SHEET C4.7 FOR REINFORCEMENT NOT SHOWN

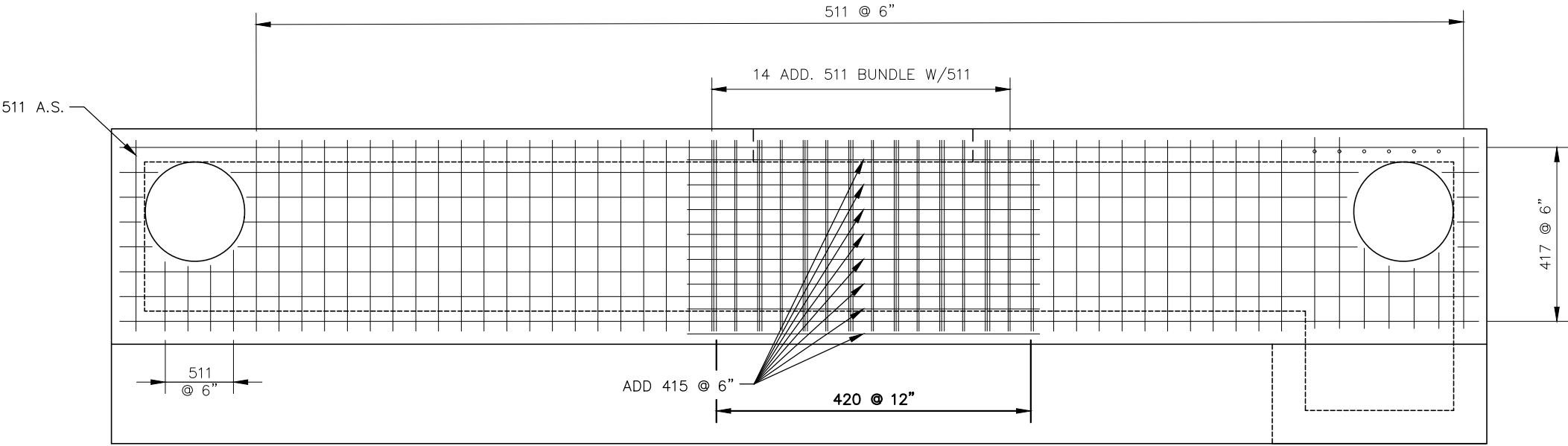
NOTES:

1. CURB INLET SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD M-604-12 AND AS SHOWN IN THE PLANS.
2. TRIM OR BEND BARS IN TOP SLAB TO AVOID MAN HOLE AND CURB FACE ASSEMBLY.
3. TRIM BARS IN BOX TO AVOID RCPS OR CMPS.
4. ADDITIONAL CURB OPENING SHALL USE SAME CURB FACE ASSEMBLY AS SHOWN IN M-604-12 STANDARD.
5. CURB FACE ASSEMBLIES FOR ADDITIONAL CURB OPENING SHALL BE PLACED AS SHOWN.
6. CONTRACTOR SHALL VERIFY ELEVATION AND CONDITION OF EXISTING PIPES.
7. CURB CHASE SHALL BE CONSTRUCTED AS DETAILED IN EPC STD DTL 3-25A. CURB CHASE SHALL HAVE A DEPTH OF 8 INCHES TO MATCH OPENING AS SHOWN ON SECTION A-A. SEE SHEET C2.5.

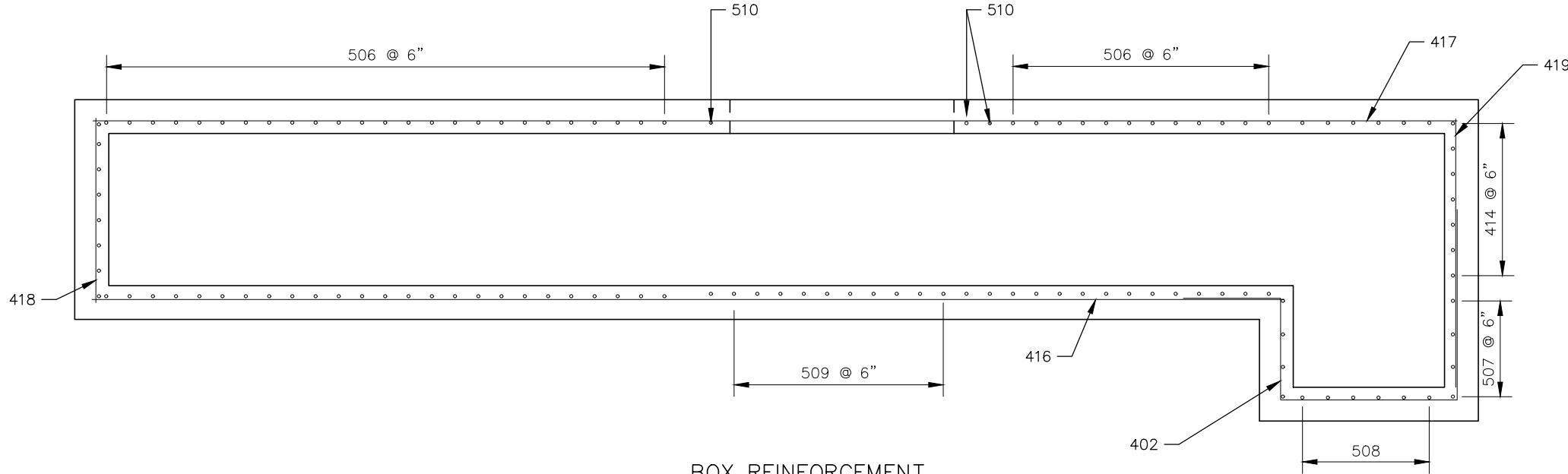


Print Date: July 9, 2025		Sheet Revisions			<div>El Paso County COLORADO</div> <div>DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE, COLORADO SPRINGS, CO 80922 PHONE: (719) 520-6460</div>	<div>COLORADO REGISTERED 59655 PROFESSIONAL ENGINEER</div>	FINAL DESIGN		HAMPTON AT ERICSON AND CALLE CORVO DRAINAGE IMPROVEMENTS COUNTY OF EL PASO, COLORADO DOUBLE-SIDED INLET DETAIL		Project No./Code	
Drawing File Name:		Date:	Comments:	Init.			No Revisions:	Designer: HMM		PROJECT NO		
<div>Kimley»Horn</div> <div>KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180</div>		(R-X)					Revised:	Detailer: AME		196441003		
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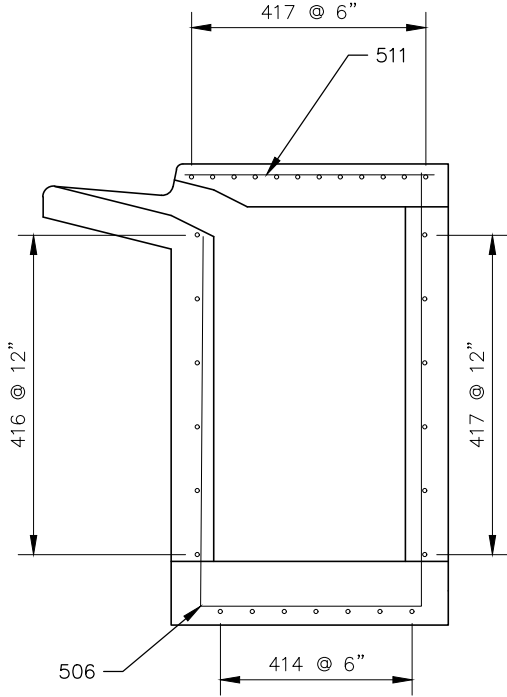
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STANDARD GUTTER PAN REINFORCEMENT NOT SHOWN



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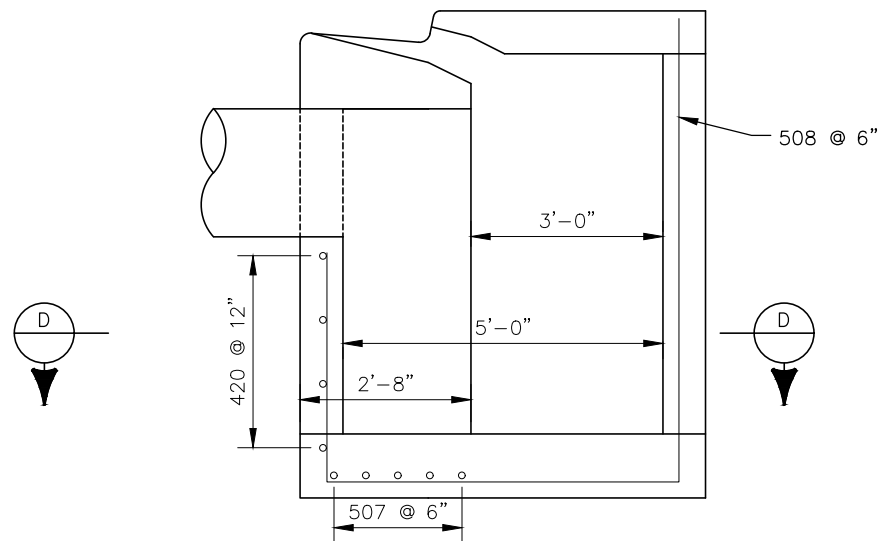


TYPICAL SECTION  
REINFORCEMENT MAY BE TRIMMED AS NECESSARY  
AT OPENINGS



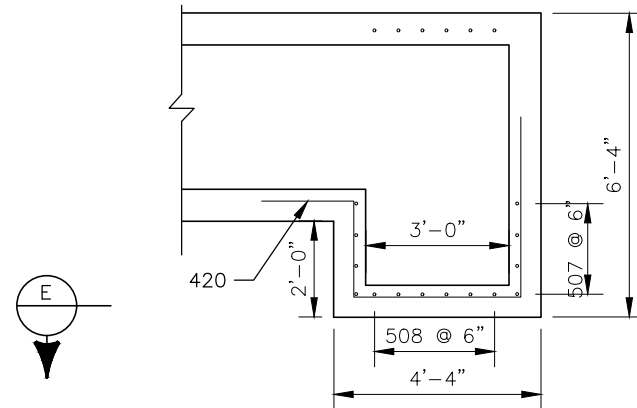
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Drawing File Name:							No Revisions:				PROJECT NO	
<div>Kimley»Horn</div> <div>KIMLEY-HORN AND ASSOCIATES, INC. 2 NORTH NEVADA AVE., SUITE 900 COLORADO SPRINGS, COLORADO 80903 (719) 453-0180</div>		(R-X)					Revised:		Designer: HMM		196441003	
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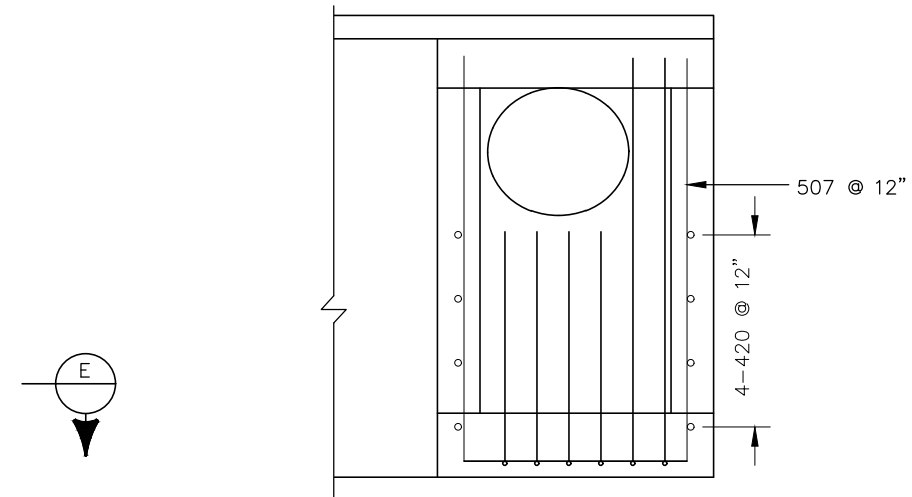
SECTION C-C

CURB FACE ASSEMBLY NOT SHOWN FOR CLARITY  
SEE SHEET C4.6 FOR REINFORCEMENT NOT SHOWN



SECTION D-D

SEE C4.6 FOR REINFORCEMENT NOT SHOWN

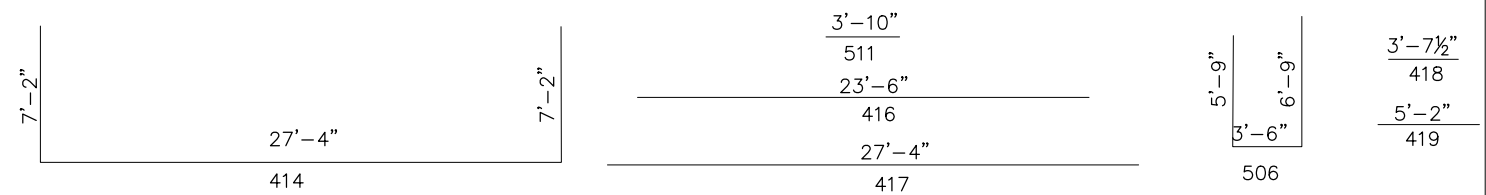


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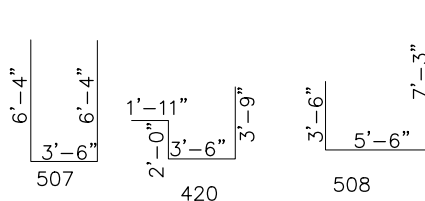
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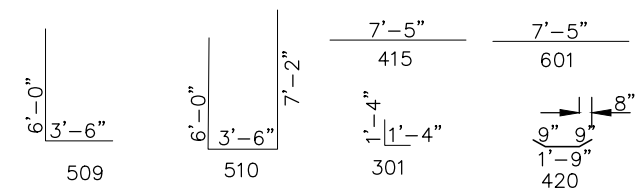
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TYPICAL REINFORCEMENT



REINFORCEMENT AT BUMP OUT

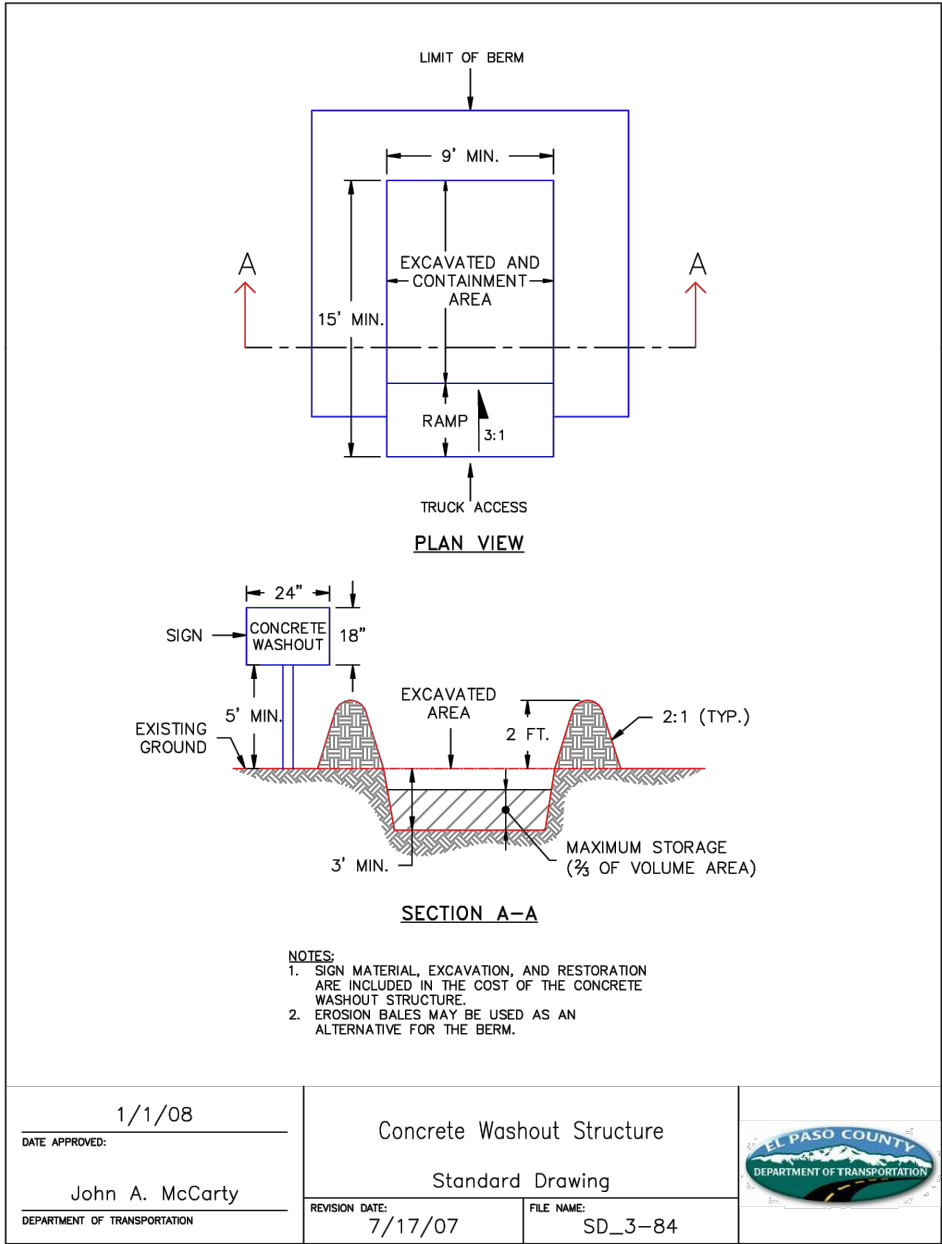
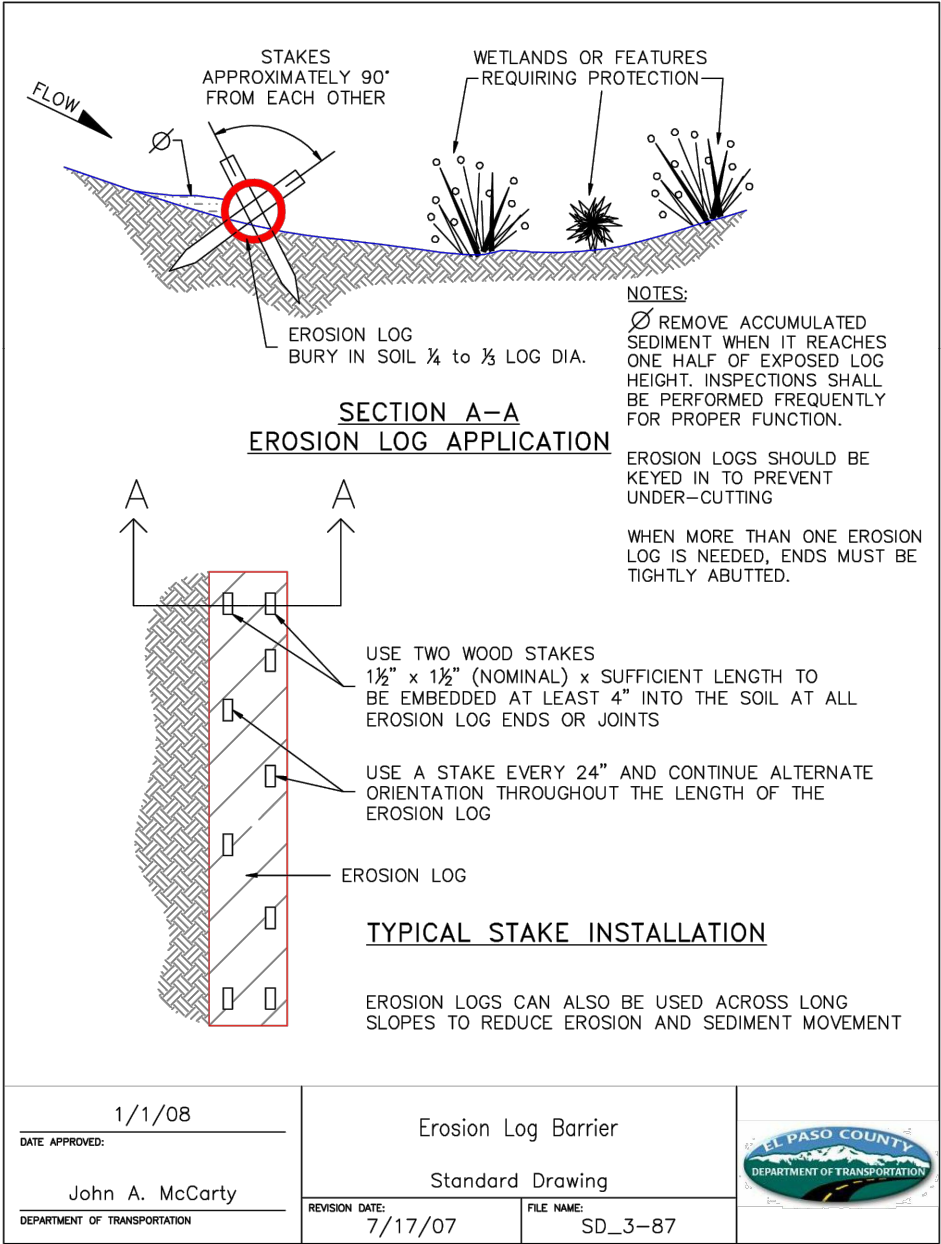


REINFORCEMENT AT ADDITIONAL CURB OPENING



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Drawing File Name:						No Revisions:		Revised:		Void:		PROJECT NO	
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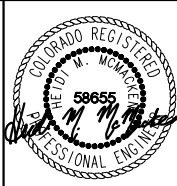
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HAMPTON AT ERICSON AND CALLE CORVO  
DRAINAGE IMPROVEMENTS  
COUNTY OF EL PASO, COLORADO  
SWMP DETAILS

Designer: HMM

Detailer: AME

Sheet Subset:

Subset Sheet: 1 of 2

Project No./Code

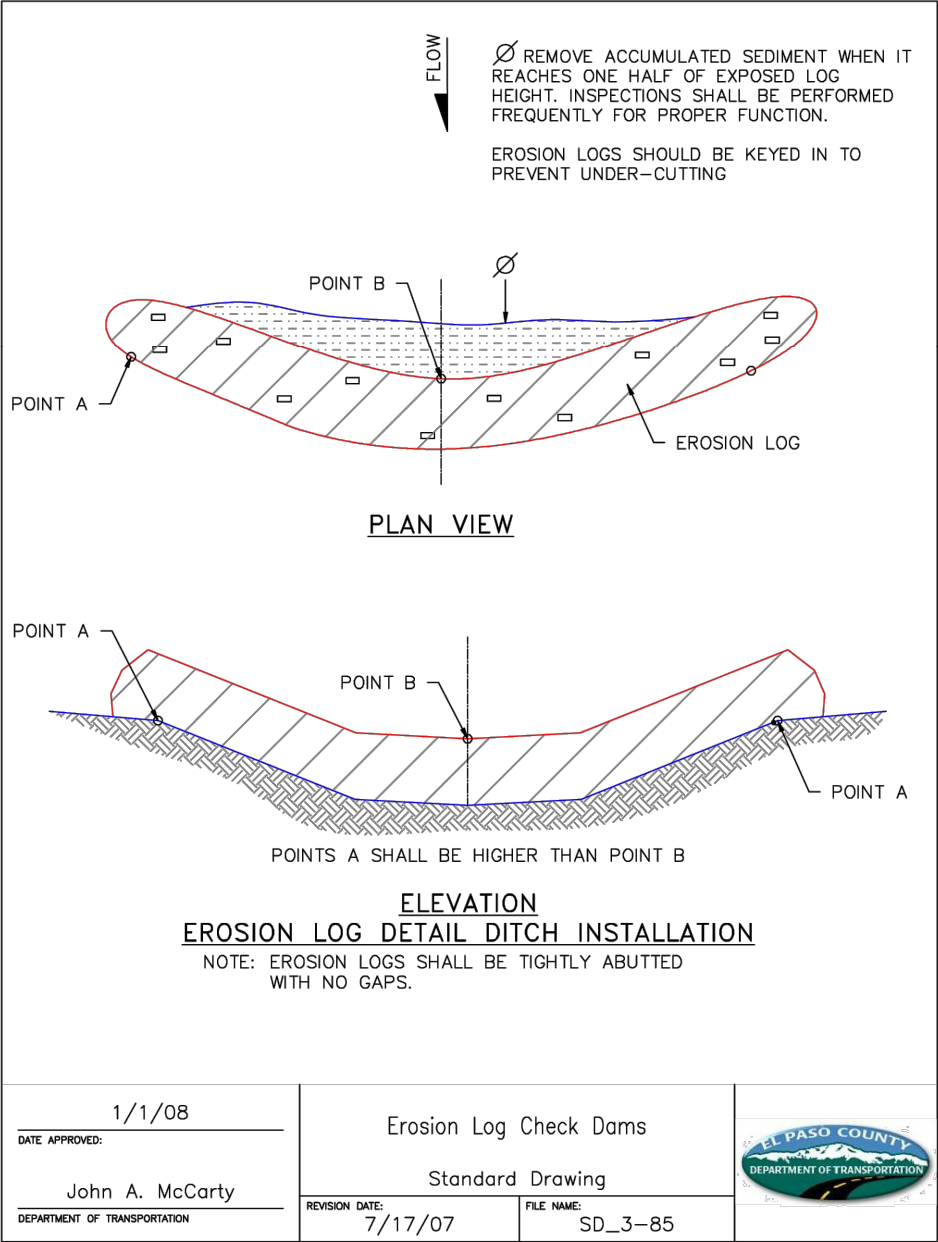
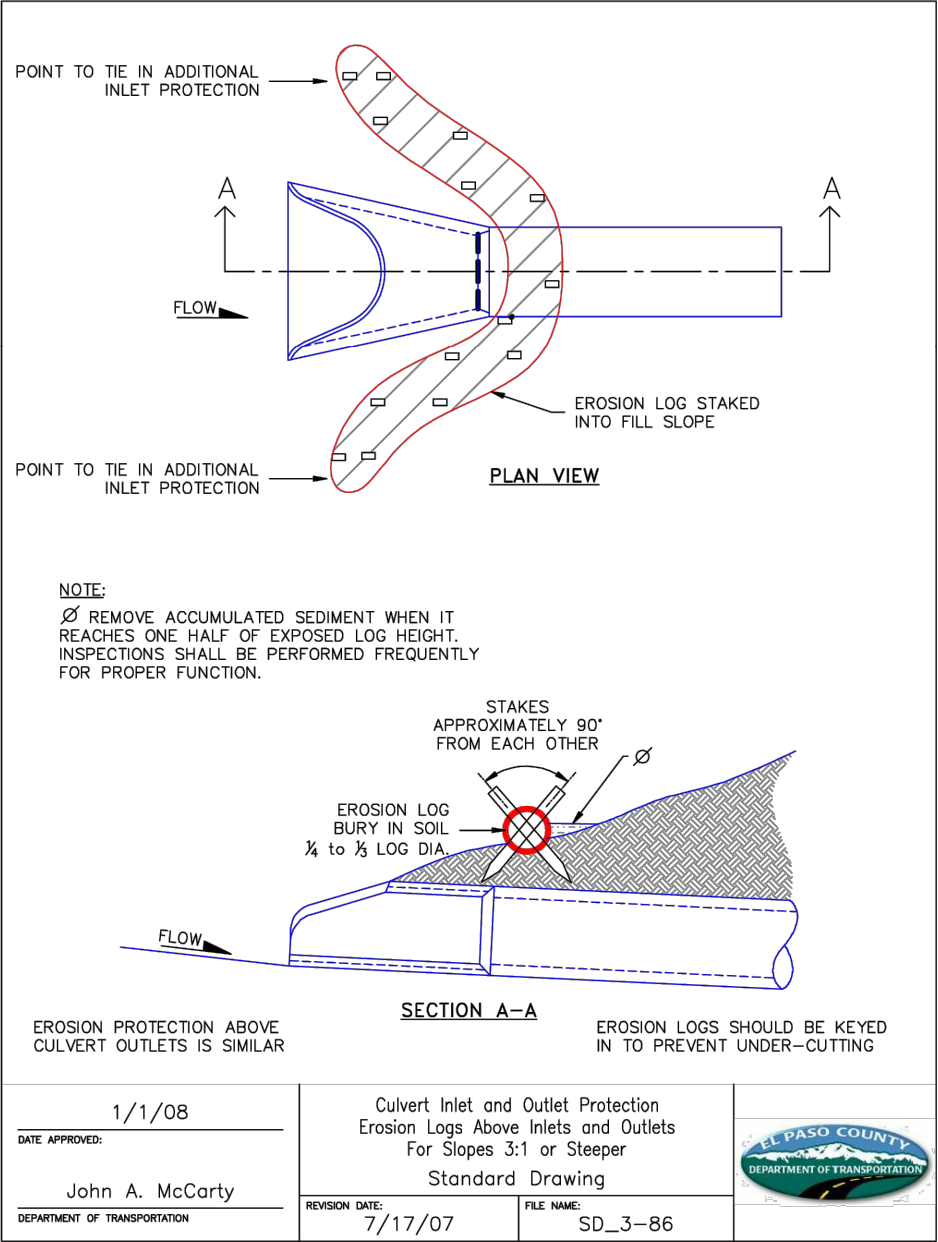
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SWMP DETAILS

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Detailer: AME

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Subset Sheet: 2 of 2

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