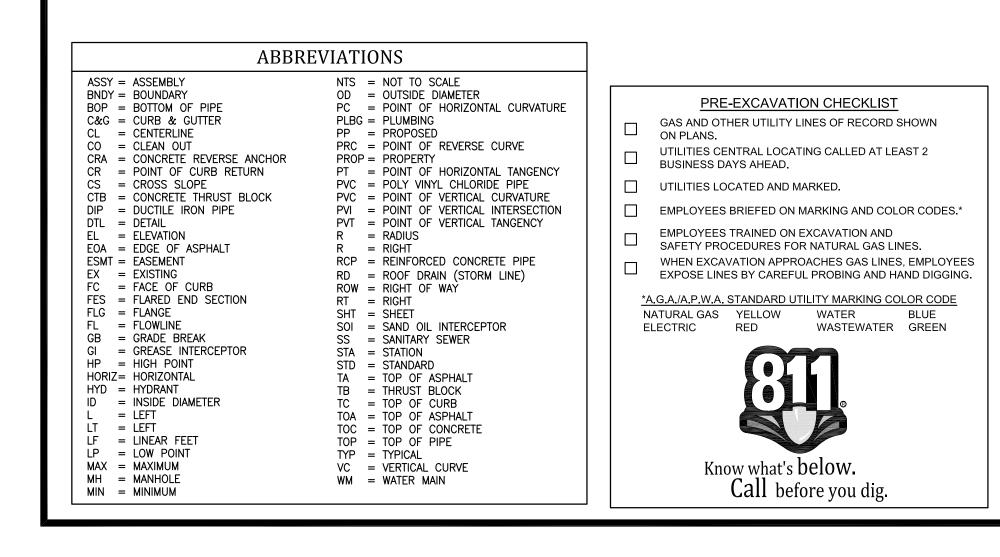
U-HAUL AT FALCON - ROLLING THUNDER WAY CIVIL CONSTRUCTION PLANS



SERVIC DEVELOP

CIVIL ENG

COMMUNI DRAINAGE

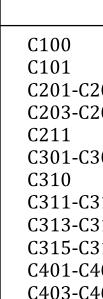
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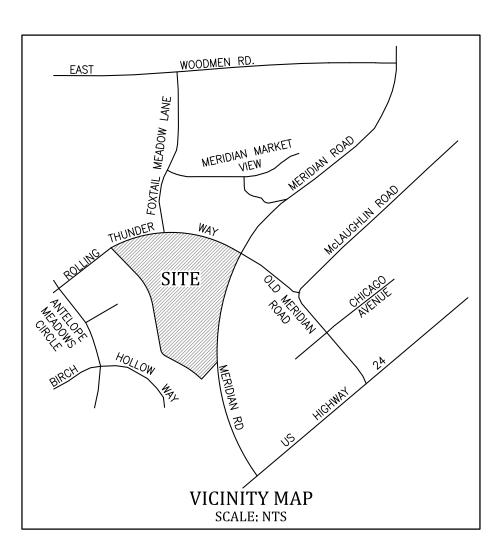
FIRE:

GAS:

ELECTRIC:

U-HAUL AT FALCON FILING NO. 1 (FALCON HIGHLANDS) EL PASO COUNTY, COLORADO





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CONTACTS						
SERVICE	ENTITY	POINT OF CONTACT				
EVELOPER/OWNER	UHC of Southern Colorado 1223B North Academy Blvd Colo Springs, CO 80909	Jeff Gilley 719-337-8154				
CIVIL ENGINEER	Kiowa Engineering Corporation 7175 West Jefferson Ave, #2200 Lakewood, CO 80235	Matthew Erichsen, PE (303) 692—0369				
COMMUNITY: DRAINAGE, GRADING	El Paso County Public Works	 [_]				
VASTEWATER & WATER:	Falcon Highlands Metro District c/o JDS Hydro Consultants	Ryan Mangino, PE 719—227—0072				
IRE:	Falcon Fire Protection District	Trent Harwig 719-495-4050				
GAS:	Colorado Springs Utilities					
LECTRIC:	Mountain View Electric Assoc					

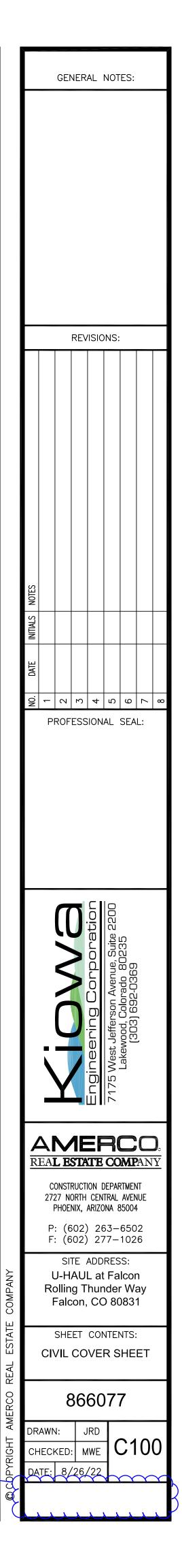
CIVIL COVER SHEET
NOTES SHEET

- C201-C202 EXISTING CONDITIONS / DEMOLITION PLAN
- C203-C204 CIVIL SITE PLAN
- DETAIL SHEET C301-C302 GRADING PLAN
 - **GRADING AND EROSION CONTROL PLAN COVER SHEET**

CD File #

PR-22-56

- C311-C312 GRADING & EC PLAN INITIAL PHASE
- C313-C314 GRADING & EC PLAN INTERIM/FINAL PHASE
- C315-C317 GRADING & EC PLAN DETAIL SHEET
- C401-C402 UTILITY PLAN
- C403-C405 STORM SEWER PLAN AND PROFILES



GENERAL NOTES: ALL WORK SHALL BE CONDUCTED IN CONFORMANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL (CURRENT EDITION). ALL WATER AND SANITARY SEWER CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE FALCON HIGHLANDS METRO DISTRICT WHICH HAS ADOPTED THE CURREN HILLS METRO DISTRICT WATER AND WASTEWATER SYSTEM STANDARD SPECIFICATIONS. SEE THE UTILITY PLAN FOR ADDITIONAL UTILITY NOTES. ALL TRAFFIC CONTROL, TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE COLORADO SUPPLEMENT AND THE APPROVED PLANS. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCOF THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL EARTHWORK, ROADWAY AND TRENCHING OPERATIONS SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, SEE THE GRADING NO ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THESE APPROVED PLANS AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS A SPECIFICATIONS AT THE JOB SITE AT ALL TIMES. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE COUNTY, STATE OF COLORADO AND COLORADO DEPARTMENT OF TRANSPORTATION FOR CONSTRUCTION AC SITE AND WITHIN THE PUBLIC RIGHT-OF-WAY. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO VERIFY SITE CONDITIONS. BUILDING CONTRACTOR(S) WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER OF ANY PROBLEM IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF IMPROVEMENT PRIOR TO ITS CONSTRUCTION. . IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS OR DESI ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROPOSED WORK. ANY IMPROVEMENTS CONSTRUCTED NOT IN ACCORDANCE WITH PLANS, OR THE APPROVED REVISED PLANS, SHALL BE REMOVED AND THE IMPROVEMENTS SHALL BE RECONSTRUCTED ACCORDING TO THE APPROVED PLANS. . WHERE APPROPRIATE, NEATLY SAW CUT ALL EXISTING CONCRETE AND ASPHALT. THE PLACEMENT OF ADDITIONAL PAVING SHALL BE DONE TO A NEAT WORK LINE, SAW (MINIMUM OF ONE (1) FOOT. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE WORK. REPAIR/REPLACE ALL DISTURBED E WITH LIKE MATERIALS AND THICKNESSES. ANY ASPHALT REMOVED IS TO BE REPLACED TO MEET THE COUNTY SPECIFICATIONS. EXISTING CONCRETE PAVEMENT SHALL BE BROKEN AT JOINT TO CREATE A ROUGH SURFACE FOR THE CONSTRUCTION JOINT. 5. ALL ASPHALT WORK REQUIRING PATCHING WILL BE PERFORMED TO A NEAT WORK LINE/SAW CUT. ASPHALT PATCH WORK SHALL BE AT LEAST 2' WIDE AFTER THE COMPLI NEW CURB CAN BE PLACED FLUSH WITH THE EXISTING ASPHALT IF IT IS TO A NEAT WORK LINE. 4. WHERE NEW CONSTRUCTION TIES INTO EXISTING IMPROVEMENTS, SUCH AS PAVEMENT, SIDEWALKS, CURBS, THE CONTRACTOR SHALL SAW CUT THE EXISTING IMPROVEMENT LINE. WITH A VERTICAL FACE AND TO A MINIMUM DEPTH OF 2-INCHES OR TO THE DEPTH OF THE REINFORCING STEEL, WHICHEVER OCCURS FIRST. IF THE EDGE IS DAM CONSTRUCTION, IT SHALL BE RE-CUT PRIOR TO CONSTRUCTING THE NEW IMPROVEMENTS. 5. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY CONSTRUCTION RELATED DAMAGE TO EXISTING PAVEMENT OR CURB & GUTTER OFF SITE (OUTSIDE OF 16. NO PAVEMENT DROP-OFFS WILL BE ALLOWED TO REMAIN OVERNIGHT. DROP-OFFS TO BE TEMPORARILY FILLED WITH ASPHALT AT 3:1 MINIMUM SLOPE WITH DELINEATOR THE UPPER EDGE OF DROP-OFF. EXISTING UTILITIES: THE LOCATIONS OF EXISTING UTILITIES ARE BASED UPON THE BEST AVAILABLE INFORMATION, ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE N INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. IF IT APPEARS THERE COULD BE A CONFLICT WITH ANY UTILITIES, WHETHER INDICATED ON THE PLANS OR NOT, THE CONTRACTOR THE ENGINEER AND OWNER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA AND SITE. THE CON AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THE UTILITIES. 8. WITH NOTIFICATION OF THE RESPECTIVE OWNER, ADJUST RIMS OF ALL CLEANOUTS, MANHOLES AND VALVE COVERS WITHIN PAVEMENT TO 1/4 TO 1/2 INCH BELOW THE AND CROSS SLOPE PRIOR TO FINAL LIFT PAVING AND ADJUST TO MATCH FINISH GRADE IN UNPAVED AREAS. 19. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH THAT OF THE UTILITY COMPANIES. 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS. 21. CONTRACTOR SHALL PROTECT EXISTING BUILDINGS, STRUCTURES, ADJOINING PROPERTIES AND PUBLIC THOROUGHFARES FROM DAMAGE DURING CONSTRUCTION. 22. FOR PROPOSED SITE LIGHTING LOCATIONS AND DETAILS REFER TO ELECTRICAL PLANS. 23. FOR PROPOSED SITE LANDSCAPING, REFER TO THE LANDSCAPING PLAN. 24. BASIS OF BEARINGS: SOUTH LINE OF THE PROPERTY, MONUMENTED AS SHOWN ON THE SURVEY AND ASSUMED TO BEAR S42*42'06"W. 25. BENCHMARK: USGS MONUMENT E-24. ELEVATION=6902.30 (NAVD88) PAVEMENT CONSTRUCTION, INCLUDING PAVEMENT DEPTHS SHOULD FOLLOW THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE SITE ALL PAVEMENT AREAS SHOULD BEAR ON NO LESS THAN 12 INCHES OF SCARIFIED, MOISTURE CONDITIONED AND COMPACTED SOILS OR BE 12-INCHES CLEAN FILL COMP LEVEL AND MOISTURE CONTENT INDICATED IN THE GEOTECHNICAL REPORT. 2.1. MATERIAL MEETING THE CDOT REQUIREMENTS FOR GRADING SX (1/2 INCH NOMINAL) FOR TOP LIFT AND GRADING S (3/4 INCH NOMINAL) FOR THE LOWER LAYERS RECOMMENDED. ASPHALT CEMENT: PG 64-22 OR PG 64-28. ASPHALT CONTENT: AS PER MIX DESIGN. PERCENT AIR VOIDS: 3-1/2% TO 5%. Ndesign=75. ASPHALTIC PAVEMENT WORK SHOULD MEET THE REQUIREMENTS FOR SUPERPAVE MIXTURES IN THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION AND BRIDGE CONSTRUCTION. ASPHALTIC LEVELING AND SURFACE COURSE SHALL CORRESPOND TO SECTION 703.04 STATE OF COLORADO DIVISION OF TRANSPORTATION, SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REQUIREMENTS FOR HOT PLANT MIX BITUMINOUS PAVEMENT. ASPHALT MIX DESIGNS STATING THE SUPERPAVE MIXTURE PROPERTIES, SHOULD BE SUBMITTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION TO VERIFY THE MATERIALS AND CONSTRUCTION METHODS SHOULD BE IN ACCORDANCE WITH THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 403. THE AGGREGATE BASE COURSE SHOULD BE CDOT CLASS 6 PER CDOT TABLE 703-2 AND CONSTRUCTION METHODS SHOULD CONFORM TO CDOT SECTION 304. THE AGGR COURSE SHOULD BE COMPACTED TO A MINIMUM OF 95% OF ASTM D698. ASPHALT MATERIAL SHOULD BE PLACED IN MAXIMUM 3-INCH LIFTS (2-INCH MINIMUM THICKNESS OR TWO TIMES THE AGGREGATE SIZE WHICHEVER IS GREATER) AND SHO COMPACTED TO A MINIMUM OF 92-96% MAXIMUM THEORETICAL SPECIFIC GRAVITY. AFTER FINAL SUBGRADE ELEVATION HAS BEEN REACHED AND THE SUBGRADE COMPACTED, THE MOISTURE CONTENT AND DENSITY OF THE TOP 12 INCHES OF THE SUBGRADE EVALUATED BY THE GEOTECHNICAL ENGINEER AND THE PAVEMENT SUBGRADES SHOULD BE PROOF ROLLED WITH A HEAVY PNEUMATIC-TIRED VEHICLE (I.E. A LOADED TEN-TRUCK) WITH A MINIMUM WEIGHT OF 15 TONS. THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE PROOF ROLLING. AREAS NOT IN COMPLIANCE WITH THE REQUIRED RAN MOISTURE OR DENSITY AND SUBGRADE THAT IS PUMPING OR DEFORMING EXCESSIVELY (GREATER THAN 1-INCH) SHOULD BE SCARIFIED, MOISTURE CONDITIONED AND COM AND CONSOLIDATE DEPRESSED AREAS, REMOVE UNCOMPACTED MATERIALS AND COMPACT TO 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STAND METHOD. PAVEMENT SHOULD NOT BE PLACED ON SOFT, WET, FROZEN OR OTHERWISE UNSUITABLE SUBGRADE. APPLY CHEMICAL HERBICIDE AGENT IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDED DOSAGES AND APPLICATION INSTRUCTIONS. APPLY TO COMPACTED, DR APPLY TACK COAT TO CONTACT SURFACES OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE AND SURFACES ABUTTING OR PROJECTING INTO ASP PAVEMENT. DISTRIBUTE AT RATE OF 0.05 TO 0.15 GAL. PER SQ. YD. OF SURFACE. ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAVING. TEST FINISHED SURFACE OF FACH ASPHALT COURSE FOR SMOOTHNESS. USING TEN-ET STRAIGHT EDGE APPLIED PARALLEL WITH AND AT RIGHT ANGLES TO CENTERLINE SURFACES WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING SMOOTHNESS TOLERANCES: BASE COURSE SURFACE: 1/4-INCH, WEARING COURSE SURFACE: 3/16-CHECK SURFACE AREAS AT INTERVALS AS DIRECTED BY ARCHITECT OR ENGINEER. <u>CURB & GUTTER, SIDEWALK AND CONCRETE NOTES</u> CONCRETE FOR SITE CURB & GUTTER AND SIDEWALK SHALL BE CDOT CLASS B. CONCRETE DRAIN PANS AND PAVEMENT SHALL BE CDOT CLASS P. ALL CONCRETE SUBGRADE SHALL BEAR ON NO LESS THAN 12 INCHES OF SCARIFIED, MOISTURE CONDITIONED AND COMPACTED SOILS OR BE 12-INCHES CLEAN COMPAC COMPACTION TO BE 95% OF THE MATERIALS STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AND TO 0 TO +2% OF THE OPTIMUM MOISTURE CONTENT FOR CL -2 TO +2% OF THE OPTIMUM MOISTURE CONTENT FOR SANDY SOILS TO A MINIMUM DEPTH OF 8-INCHES, UNLESS OTHERWISE NOTED OR REQUIRED BY GEOTECHNICAL CONCRETE FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER WITH A 24-HOUR MINIMUM NOTIFICATION FOR SOIL AND/OR CONCRETE TESTING. CONCRETE IN THE ABSENCE OF TESTING SHALL BE COMPLETED AT THE SOLE RISK OF THE CONTRACTOR. MIX DESIGN: PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. SUBMITTAL SHALL INFORMATION USED IN DESIGNING THE MIX. RECORD OF WORK: A RECORD SHALL BE KEPT BY THE GENERAL CONTRACTOR LISTING THE TIME AND DATE OF PLACEMENT OF ALL CONCRETE. SUCH RECORD SHALL BE THE COMPLETION OF THE PROJECT AND SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE FOR EXAMINATION AT ANY TIME. DISCHARGE ALL CONCRETE TRANSMITTED IN A TRUCK MIXER, AGITATOR OR OTHER TRANSPORTATION DEVICE WITHIN 1-1/2 HOURS AFTER THE MIXING WATER HAS BEEN A ALL TRANSITIONS TO DIFFERENT CURB TYPES SHALL BE MADE WITH 1:10 TRANSITIONS, UNLESS OTHERWISE NOTED. FINISH: CURB AND GUTTER: SACK FINISH EXPOSED SURFACES. SIDEWALKS: BROOM FINISH EXPOSED SURFACES. PAVEMENT: AS SOON AS THE FINISHED CONCRETE HAS SE TO MAINTAIN A TEXTURE AND NO BLEED WATER REMAINS ON THE SURFACE, THE SURFACE CAN BE DRAGGED WITH A SHORT LENGTH OF DAMP BURLAP OR OTHER MATER SYNTHETIC TURF CARPETING. AS AN ALTERNATIVE, THE SURFACE CAN BE BROOMED TO DEVELOP A SKID-RESISTANT SURFACE AND UNIFORM APPEARANCE. CONTROL (CONTRACTION) AND CONSTRUCTION JOINTS: CONTROL JOINTS SHOULD SEPARATE CONCRETE PAVEMENTS INTO PANELS AS RECOMMENDED BY ACI. THE CONTROL BE TOOLED OR SAWCUT TO A MINIMUM DEPTH OF ONE-QUARTER (1/4) OF THE TOTAL THICKNESS OF THE CONCRETE. SAWED CONTROL JOINT MUST BE DONE NO LATER HOURS AFTER CONCRETE IS POURED. CONSTRUCTION JOINTS SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER 10.1. CURB & GUTTER CONTROL JOINT SPACING (3/16" WIDE) SHALL BE 10' TYPICAL (12' MAXIMUM), UNLESS SPECIFIED OTHERWISE. ADJUST SPACING LENGTH IF ADJA CONCRETE PAVEMENT SO PAVEMENT PANEL JOINT LINES WILL BE CONTINUOUS THROUGH THE C&G. PROVIDE CONSTRUCTION JOINTS 25-FT O.C. MAX IN EACH DIR NOTED OTHERWISE) 10.2. SIDEWALKS SHALL HAVE CONTROL JOINTS (3/16" WIDE) WITH THE JOINTS SPACED 5-FEET APART (4-FT MINIMUM, 6-FT MAXIMUM SPACING). PROVIDE CONSTRUCT 25-FT O.C. MAX IN EACH DIRECTION WITH SQUARE FOOTAGE LESS THAN 400 SF AND AT CURVES, TANGENTS AND CORNERS (UNLESS NOTED OTHERWISE). 10.3. CONCRETE PAVEMENT CONTROL JOINT WIDTH: 1/16" - 1/8" FOR UNSEALED JOINTS. AT LEAST 1/4" FOR SEALED JOINTS WITH 3/8" TYPICAL EXPANSION JOINTS: INSTALL WHEN ABUTTING EXISTING CONCRETE SLABS, INLETS, FIRE HYDRANTS, POLES AND OTHER FIXED OBJECTS. TOOLED 1/4" RADIUS EDGES. EXPA MATERIAL SHALL BE 1/2" THICK, EXTEND FULL DEPTH OF CONTACT SURFACE, LEAVE 1/2" BELOW TOP OF PAVEMENT AND SEAL WITH 1/4" THICK POLYURETHANE JOINT 11.1. CURB AND GUTTER EXPANSION JOINT SPACING: 300-FT MAX. ON STRAIGHT SECTIONS. 11.2. SIDEWALK EXPANSION JOINT SPACING: 100-120 FOOT SPACING ON STRAIGHT SECTIONS. JOINT SEALANT: BEFORE SEALING JOINTS, THE JOINT OPENING SHOULD BE THOROUGHLY CLEANED WITH COMPRESSED AIR TO REMOVE ALL FOREIGN MATTER. ALL CONTACT THE JOINT SHOULD BE CLEANED TO REMOVE LOOSE MATERIAL AND SHOULD BE SURFACE DRY. SEALANT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS. 5. SEALS SHOULD BE PROVIDED BETWEEN CURB AND PAVEMENT AND AT JOINTS TO REDUCE MOISTURE INFILTRATION.

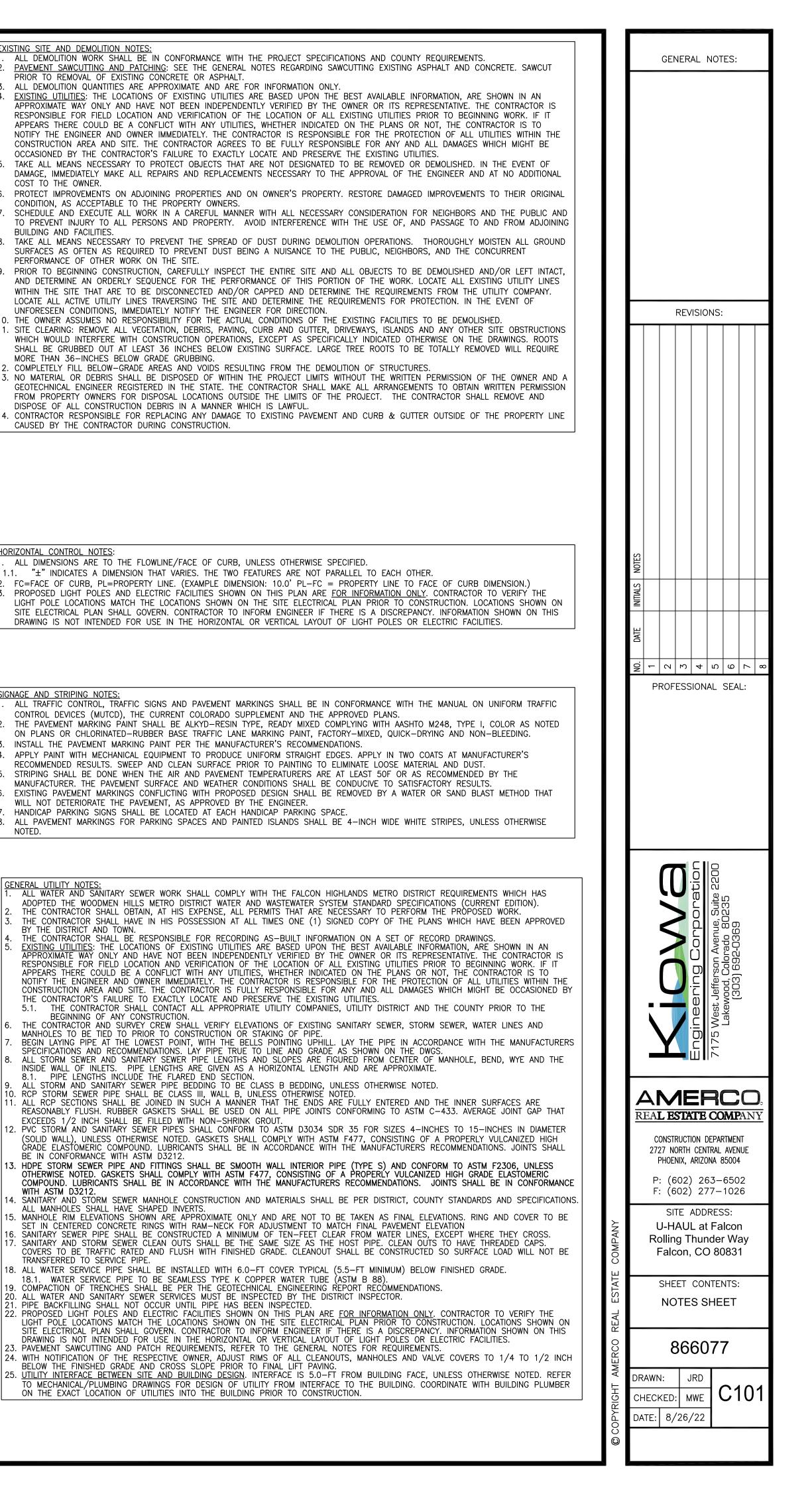
4. CURING: CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE, RAPID TEMPERATURE CHANGE AND MECHANICAL INJURY FOR AT LEAST 5 DAYS AFT AFTER FINISHING AND TEXTURING OPERATIONS HAVE COMPLETED AND IMMEDIATELY AFTER FREE WATER HAS EVAPORATED, THE EXPOSED SURFACE OF THE CONCRETE AND EDGES SHOULD BE UNIFORMLY COATED WITH A WHITE PIGMENTED MEMBRANE FORMING CURING COMPOUND MEETING ASTM C309 OR C1315 (TYPE II) SHALL BE APPLIED RECOMMENDED BY THE MANUFACTURER. IN GENERAL, WITHIN 30 MINUTES OF PLACING THE OVERLAY, CURING COMPOUND SHOULD BE APPLIED AT TWICE THE STANDARD WEATHER REQUIREMENTS: THE MIXED CONCRETE TEMPERATURE SHALL BE BETWEEN 50 AND 90 DEGREES FAHRENHEIT AT THE TIME OF PLACEMENT. CONCRETE SHALL NO ON FROZEN GROUND. BEFORE CONCRETE PLACEMENT, ALL ICE, SNOW AND FROST SHALL BE COMPLETELY REMOVED FROM WITHIN FORMWORK. SALT SHALL NOT BE USED SNOW OR FROST. WHEN CONCRETE HAS BEEN PLACED IN COLD WEATHER AND THE AMBIENT TEMPERATURE MAY DROP BELOW 35 DEGREES F, PROVIDE INSULATED CURIN OTHER SUITABLE MATERIALS TO MAINTAIN THE CONCRETE TEMPERATURE ABOVE 50 DEGREES F. DURING THE CURING PERIOD. THE MINIMUM CURING PERIOD SHALL BE F SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE FOR HIMSELF THE NECESSITY FOR UNDERTAKING PROTECTIVE MEASURES. CONCRETE INJURED BY FROST ACT

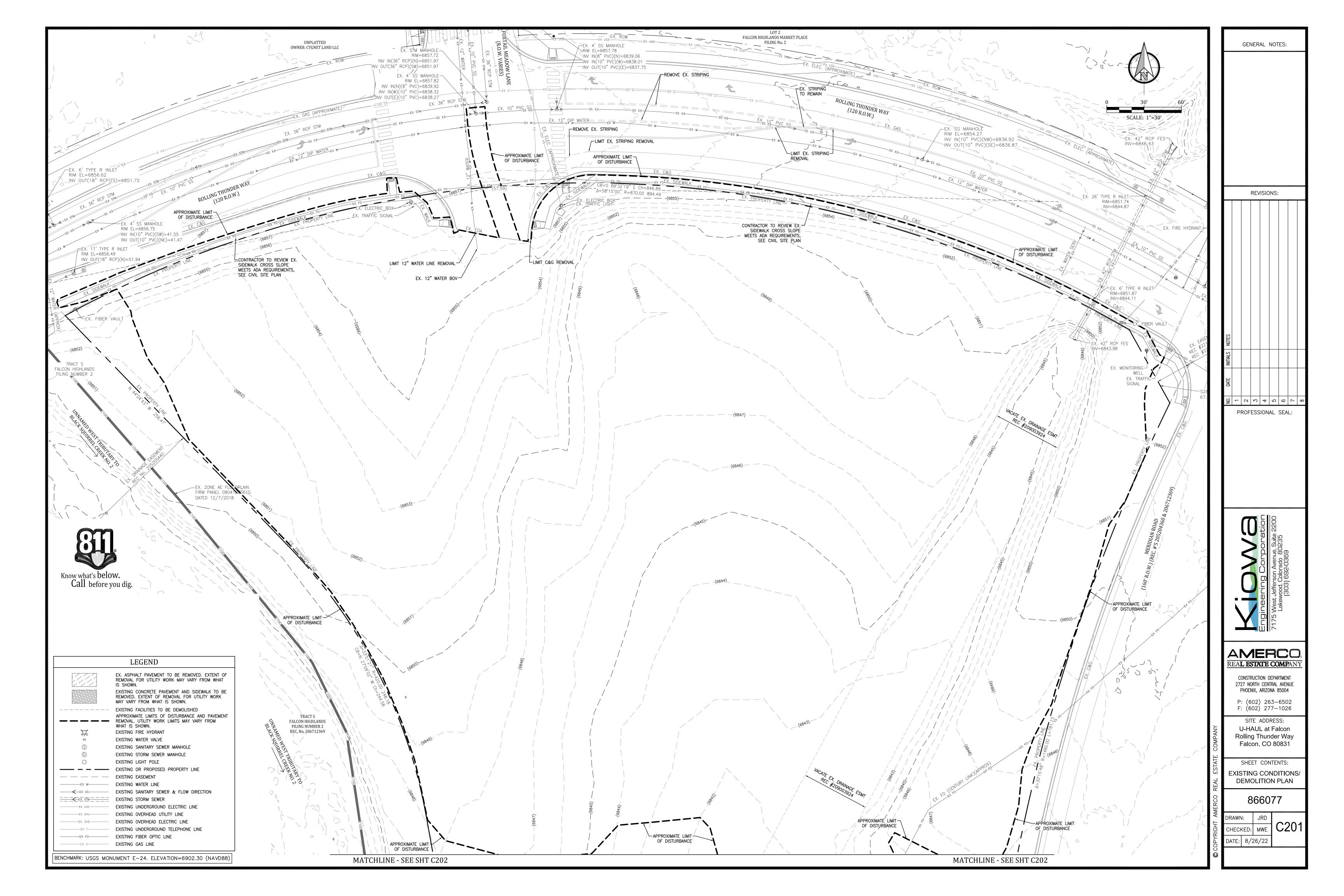
REMOVED AND REPLACED AT THE CONCRETE PAVING CONTRACTOR'S EXPENSE. PROTECT NEWLY FINISHED CONCRETE FROM RAIN DAMAGE . CONTROL TESTS, UNLESS OTHERWISE INDICATED IN CONTRACT DOCUMENTS: CONTROL TESTS OF CONCRETE WORK FOR INLETS AND MANHOLES SHALL BE MADE A MINIMUM DURING EACH DAY'S POUR. CONTROL TESTS OF CONCRETE WORK FOR SIDEWALK, CURB AND GUTTER SHALL BE MADE AS REQUIRED BY THE CITY OR A MINIMUM OF TWIC DAY'S POUR, PLUS ONE (1) PER 100 CUBIC YARDS. EACH TEST SHALL CONSIST OF FOUR (4) STANDARD 6" TEST CYLINDERS CAST AND CURED IN ACCORDANCE WITH TESTS SHALL BE MADE AT THE TIME CONTROL TESTS ARE TAKEN AND SO STATED IN THE REPORTS TO DETERMINE THE SLUMP, AIR CONTENT, UNIT WEIGHT AND TEMPERATURE OF THE CONCRETE. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH C391, C138, OR C231.

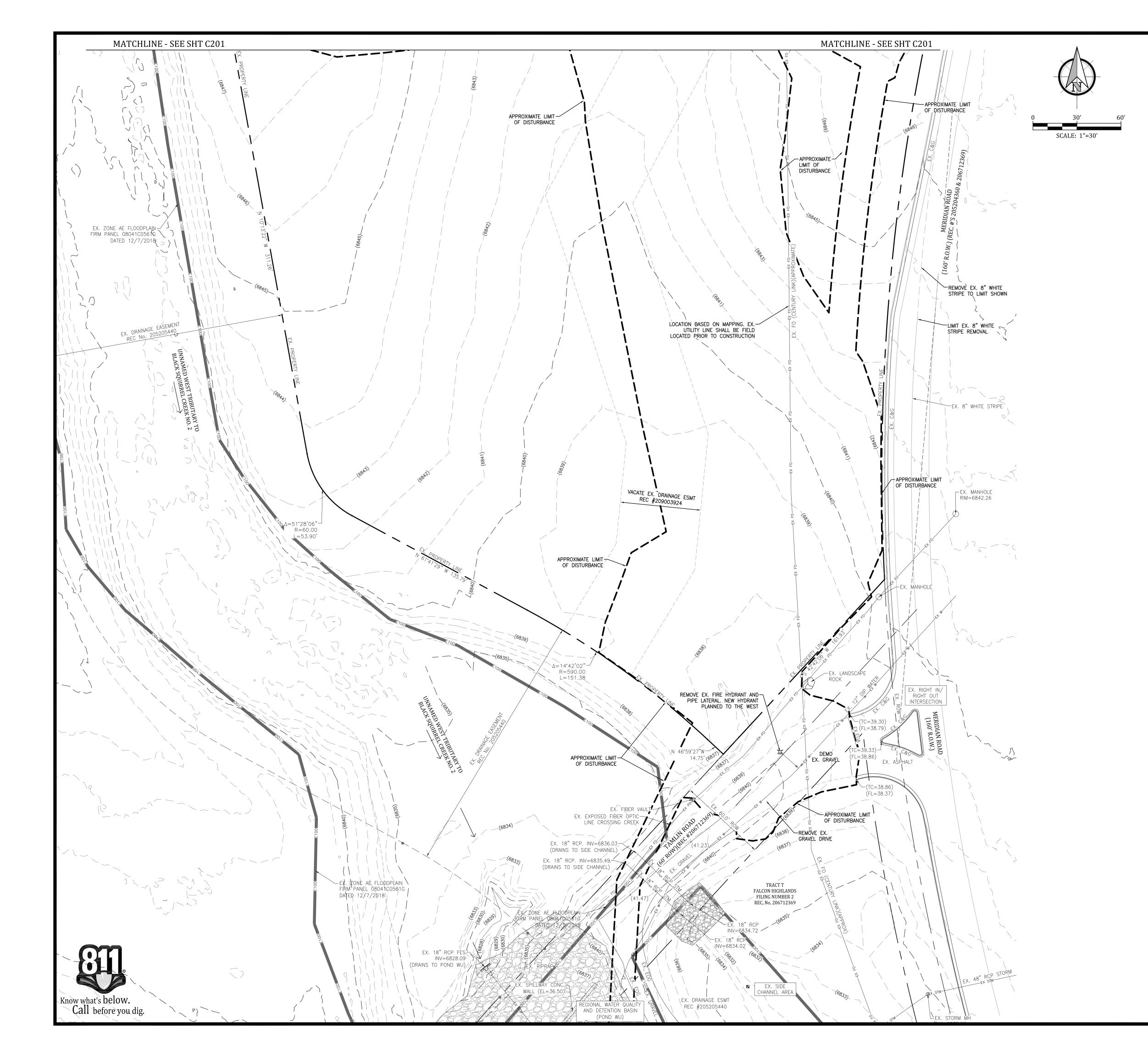
. PAVEMENT SHALL NOT BE OPENED TO TRAFFIC FOR AT LEAST 3 FULL DAYS AFTER PLACING AND MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AT LEAST 1,800 PSI. TRAFFIC SHALL BE RESTRICTED TO PASSENGER CARS AND LIGHT TRUCKS FOR AT LEAST 7 DAYS AFTER CONCRETE IS PLACED. PROTECT NEWLY FINISHED CONCRETE FROM RAIN DAMAGE. THE PLACEMENT OF PARTIAL PAVEMENT THICKNESS FOR USE DURING CONSTRUCTION IS NOT RECOMMENDED WITHOUT A DETAILED PAVEMENT ANALYSIS INCORPORATING CONSTRUCTION TRAFFIC.

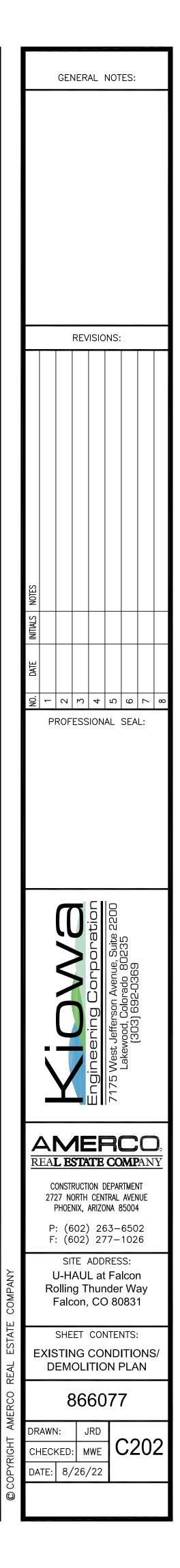
To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.

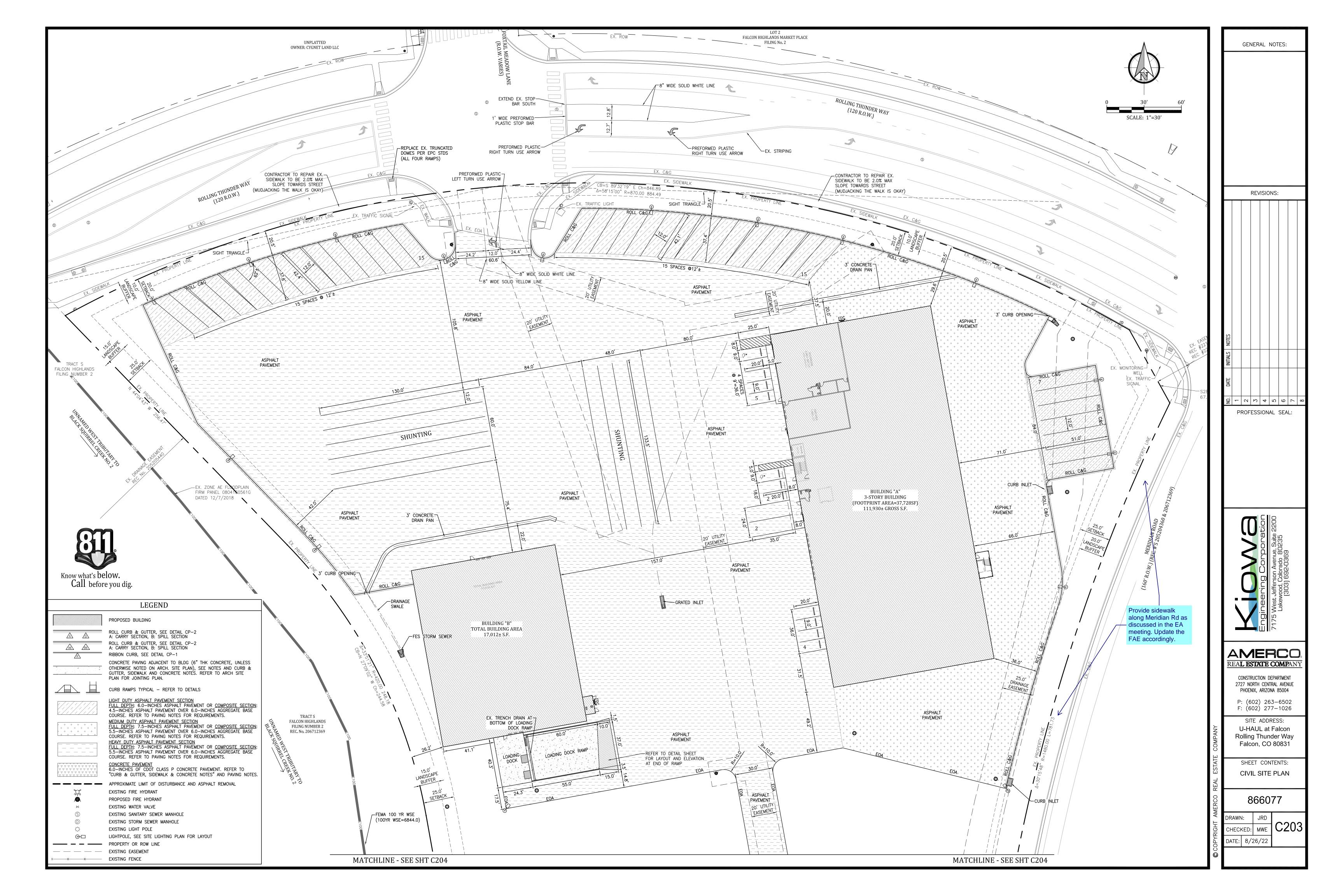
NT WOODMEN CURRENT PRDANCE WITH NOTES FOR ND CTIVITIES ON THE F THE PROPOSED SIGN ERRORS THE APPROVED CUTTING A EXISTING ITEMS SCORED THEN LETION OF WORK. IS TO A TRUE MAGED DURING THE PROPERTY POLES MARKING	 V <u>GRADING NOTES:</u> 1. ALL EARTHWORK AND EROSION CONTROL REQUIRED OF THIS CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE COUNTY STANDARDS. 2. A GEDECHNICAL ENGINEERING REPORT WAS PREPARED FOR THE SUBJECT SITE. THE RECOMMENDATIONS INCLUDED IN THE REPORT SHOLD BE FOLLOWED DURING CONSTRUCTION UNLESS OTHERWISE NOTED. REFER TO THE REPORT FOR SOIL BORING LOOS. FOLLOWING IS INFORMATION FROM THE REPORT, THE CONTRACTOR SHALL REFER TO THE REPORT FOR SOULBORING. 2.1. REFER TO GEDTECHNICAL ENGINEERING STUDY FOR COMPACTION REQUIREMENTS. 2.2. REFER TO THE GEOTECHNICAL ENGINEERING STUDY FOR COMPACTION ROUMEREMITS. 3. FILL SHOULD BE FLACED AND COMPACTED IN HORIZONTAL LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOSITURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. THE PLACEMENT AND COMPACTION OF FILL AND BACKFILL SHOULD BE COMPACTED IN HORIZONTAL LIFTS, USING EQUIPMENT AND DROCEDURES THAT WILL PRODUCE RECOMMENDED MOSITURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. THE PLACEMENT AND COMPACTION OF FILL AND BACKFILL SHOULD BE COMPACTED TO 95% OF THE MATERNIAS. STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AND TO 0 TO 42% OF THE OPTIMUM MOSISTURE CONTENT FOR CLAY SOILS AND -2 TO +2% OF THE OPTIMUM MOSISTURE CONTENT FOR CLAY SOILS AND -2 TO +2% OF THE OPTIMUM MOSISTURE CONTENT FOR CLAY SOILS AND -2 TO +2% OF THE OPTIMUM MOSISTURE CONTENT FOR CLAY SOILS AND -2 TO +2% OF THE OPTIMUM MOSISTURE CONTENT FOR NO LESS THAN 12 INCHES BELOW PLANNED GRADE, MOISTURE CONTENT FOR CLAY SOILS AND -2 TO +2% OF THE OPTIMUM MOSISTURE CONTENT FOR NO LESS THAN 12 INCHES BELOW PLANNED GRADE, MOISTURE CONTENTION AND DROVENDES AND TO INSTALLATION. THE GEOTECHNICAL ENGINEER THERIALS AND COMPACTO NAL DESCREAD AND THE CONTRACTOR SHALL BE APPROVED BY THE GEOTECHNICAL REQUIREMENTS. ALL SOILS USED FOR FILL AND BACKFILL MUST BE APPROVED BY THE GEOTECHNICAL REQUIREMENTS. ALL SOILS USED FOR	EXISTING SITE AND DE 1. ALL DEMOLITION V 2. PAVEMENT SAWCUT PRIOR TO REMOVA 3. ALL DEMOLITION C 4. EXISTING UTILITIES APPROXIMATE WAY RESPONSIBLE FOR APPEARS THERE C NOTIFY THE ENGIN CONSTRUCTION AR OCCASIONED BY T 5. TAKE ALL MEANS DAMAGE, IMMEDIAT COST TO THE OWI 6. PROTECT IMPROVE CONDITION, AS AC 7. SCHEDULE AND EX TO PREVENT INJU BUILDING AND FAC 8. TAKE ALL MEANS SURFACES AS OFT PERFORMANCE OF 9. PRIOR TO BEGINNI AND DETERMINE A WITHIN THE SITE COCATE ALL ACTIV UNFORESEEN CON 10. THE OWNER ASSU 11. SITE CLEARING: RI WHICH WOULD INT SHALL BE GRUBBE MORE THAN 36-IN 12. COMPLETELX END
NOT BEEN EXISTING IS TO NOTIFY IS TO NOTIFY IS TO NOTIFY E EXISTING FINISHED GRADE	 CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK. IF IT APPEARS THERE COULD BE A CONFLICT WITH ANY UTILITIES, WHETHER INDICATED ON THE PLANS OR NOT, THE CONTRACTOR IS TO NOTIFY THE ENGINEER AND OWNER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA AND SITE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THE EXISTING UTILITIES. 7. GRADING CONTOURS SHOWN ON THIS PLAN ARE TO FINAL GRADE. 8. ALL VERTICAL SPOT ELEVATIONS SHOWN ON THE GRADING PLAN ARE FLOWLINE OF CURB (FL) OR FINISH GROUND (FG), UNLESS OTHERWISE NOTED. 8.1. GRADING ABBREVIATIONS: FL=FLOWLINE, TC=TOP OF CURB, TOC=TOP OF CONCRETE, TOA=TOP OF ASPHALT, EOC=EDGE OF CONCRETE, EOA=EDGE OF ASPHALT, HP=HIGH POINT, LP=LOW POINT, FF=FINISH FLOOR ELEVATION. 9. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO VERIFY SITE CONDITIONS. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ADEQUATE SHORING AND/OR BRACING NECESSARY TO FACILITATE THE EXCAVATION ASSOCIATED WITH THE CONSTRUCTION OF THE WALLS, PIPELINES AND FOUNDATIONS. THE BRACING AND/OR SHORING OF EXCAVATED WALLS OR TRENCHES SHALL BE IN COMPLIANCE WITH OSHA REGULATIONS AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. 11. BUILDING CONTRACTOR(S) WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. 	 COMPLETELY FILL NO MATERIAL OR GEOTECHNICAL EN FROM PROPERTY DISPOSE OF ALL CONTRACTOR RESP CAUSED BY THE C
PACTED TO THE RS IS NS FOR ROAD STANDARD IEIR ADEQUACY. REGATE BASE OULD BE RADE SHOULD BE I-WHEEL DUMP NGES OF MPACTED. FILL NDARD PROCTOR RY SUBGRADE. PHALT CONCRETE OF PAVED AREA. INCH	 SIDEWALK SLOPES SHALL NOT EXCEED 2.0% MAXIMUM CROSS SLOPES AND 5.0% MAXIMUM LONGITUDINAL SLOPES, UNLESS OTHERWISE NOTED. THE SLOPE IN THE HANDICAP PARKING SPACES AND ASSOCIATED STRIPED ISLAND SHALL NOT EXCEED 2.0% IN ANY DIRECTION. IMMEDIATELY PUMP OR BAIL OUT WATER FOUND IN EXCAVATIONS, WHETHER RAIN OR SEEPAGE. EXCAVATIONS MUST BE KEPT FREE FROM WATER AT ALL TIMES. TAKE ALL MEASURES AND FURNISH ALL EQUIPMENT AND LABOR NECESSARY TO CONTROL THE FLOW, DRAINAGE AND ACCUMULATION OF WATER AS REQUIRED TO PERMIT COMPLETION OF THE WORK AND TO AVOID DAMAGE TO THE WORK. WHEN FREEZING TEMPERATURES MAY BE EXPECTED, DO NOT EXCAVATE TO THE FULL DEPTH INDICATED UNLESS THE FOOTING OR SLABS ARE TO BE POURED IMMEDIATELY AFTER THE EXCAVATION HAS BEEN COMPLETED. IF PLACING OF CONCRETE IS DELAYED, PROTECT THE BOTTOMS OF EXCAVATIONS FROM FROST UNTIL CONCRETE IS PLACED. NO FILL MATERIAL SHALL BE PLACED, SPREAD OR ROLLED WHILE IT IS FROZEN OR THAWING OR DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IN PROGRESS IS INTERRUPTED BY HEAVY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL THE GEOTECHNICAL ENGINEER INDICATES THAT THE MOISTURE CONTENT AND DENSITY OF THE PREVIOUSLY PLACED FILL ARE AS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF UNSUITABLE FILL MATERIALS TO A SUITABLE SPOIL AREA. EXCESS EXCAVATION SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF UNSUITABLE FILL MATERIALS TO A SUITABLE SPOIL AREA. EXCESS EXCAVATION SHALL BE COME THE PROPERTY OF THE CONTRACTOR NA SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. THE COST OF HAULAGE AND SPOILING OF EXCESS EXCAVATED MATERIALS SHALL BE PAID FOR AS DOCUMENTED IN THE PROJECT SPECIFICATIONS. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORM WATER DISCHARGE TO THE COLORADD DEPARTMENT OF PUBLIC HEALTH AND ENVIRON	HORIZONTAL CONTROL 1. ALL DIMENSIONS A 1.1. "±" INDICATES 2. FC=FACE OF CURI 3. PROPOSED LIGHT LIGHT POLE LOCAT SITE ELECTRICAL F DRAWING IS NOT I SIGNAGE AND STRIPING 1. ALL TRAFFIC CONT CONTROL DEVICES 2. THE PAVEMENT MA ON PLANS OR CH 3. INSTALL THE PAVE 4. APPLY PAINT WITH RECOMMENDED RE 5. STRIPING SHALL B MANUFACTURER. T 6. EXISTING PAVEMEN
CTED FILL. LAY SOILS AND ENGINEER. . PLACEMENT OF L INCLUDE ALL KEPT UNTIL ADDED. SET SUFFICIENTLY	20. WATER SHALL BE USED AS A DUST PALLIATIVE AS REQUIRED AND SHALL BE INCLUDED IN THE COST FOR EARTHWORK ITEM(S). Please add EPC Standard Construction Notes #1-15 see paperclip file Please add the EPC Standard Signing and Striping Notes	7. HANDICAP PARKING 8. ALL PAVEMENT MAN NOTED.
RIAL SUCH AS _ JOINTS SHALL R THAN 24 ACENT TO RECTION (UNLESS TION JOINTS ANSION JOINT SEALANT.		APPEARS THERE NOTIFY THE ENG CONSTRUCTION A THE CONTRACTO 5.1. THE CON BEGINNIN 6. THE CONTRACTO MANHOLES TO B 7. BEGIN LAYING PI SPECIFICATIONS 8. ALL STORM SEW INSIDE WALL OF 8.1. PIPE LEN 9. ALL STORM AND 10. RCP STORM SEW 11. ALL RCP SECTIO
T SURFACES OF TER PLACEMENT. D ANY EXPOSED AS RATE. DT BE PLACED D TO THAW ICE, NG BLANKETS OR FIVE (5) DAYS. IT STION SHALL BE M OF ONCE ICE DURING EACH C31 AND C172.		REASONABLY FLU EXCEEDS 1/2 IN 12. PVC STORM AND (SOLID WALL), U GRADE ELASTOM BE IN CONFORM 13. HDPE STORM SE OTHERWISE NOTE COMPOUND. LUB WITH ASTM D321 14. SANITARY AND S ALL MANHOLE RIM EI SET IN CENTERE 15. MANHOLE RIM EI SET IN CENTERE 16. SANITARY SEWER 17. SANITARY AND S COVERS TO BE TRANSFERRED TO 18. ALL WATER SEN

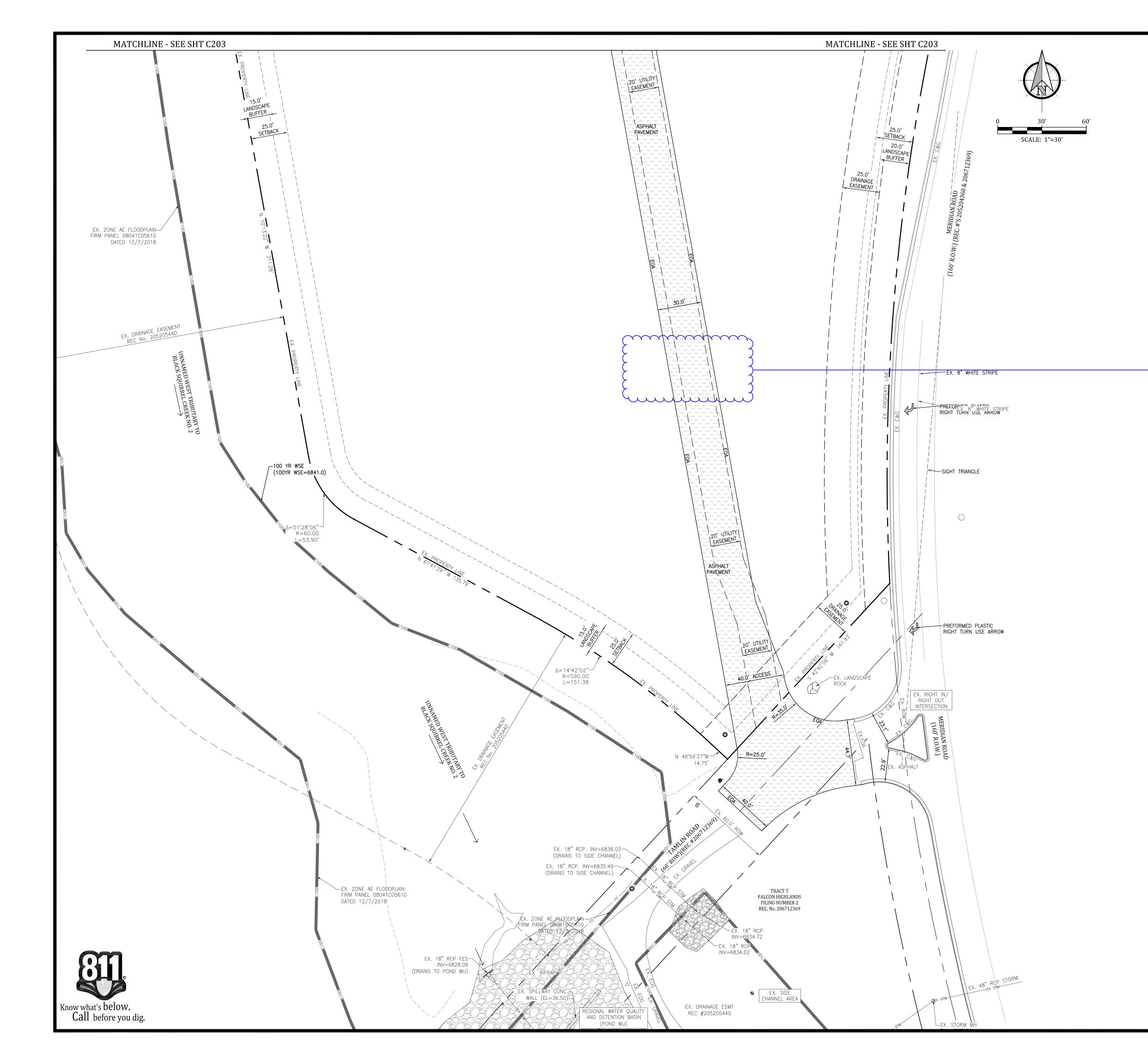




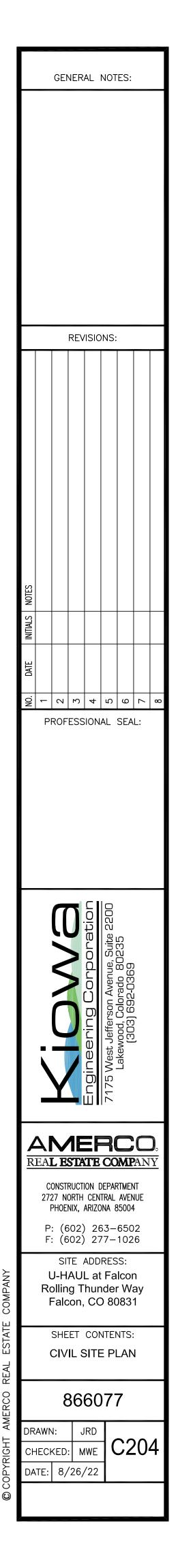


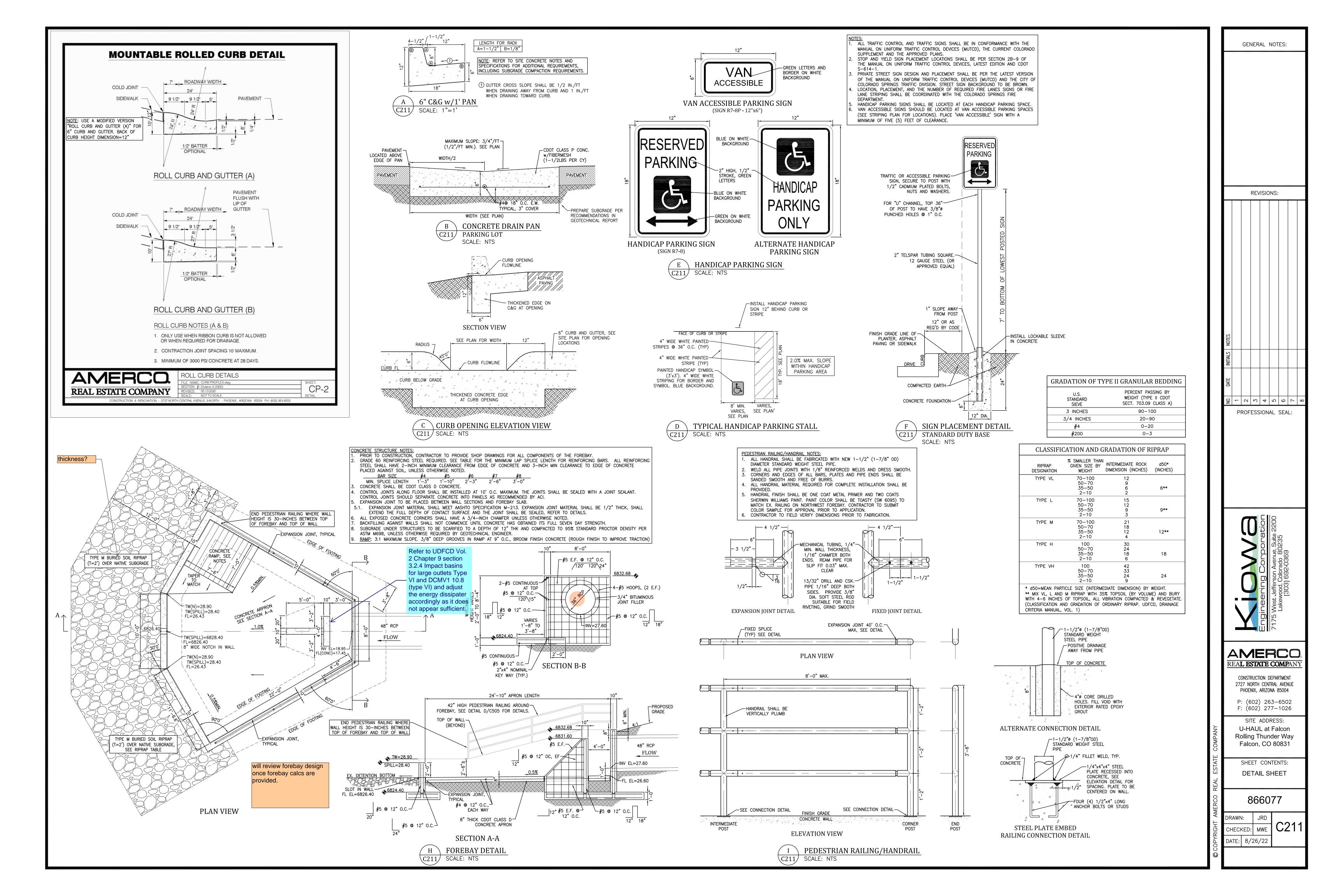


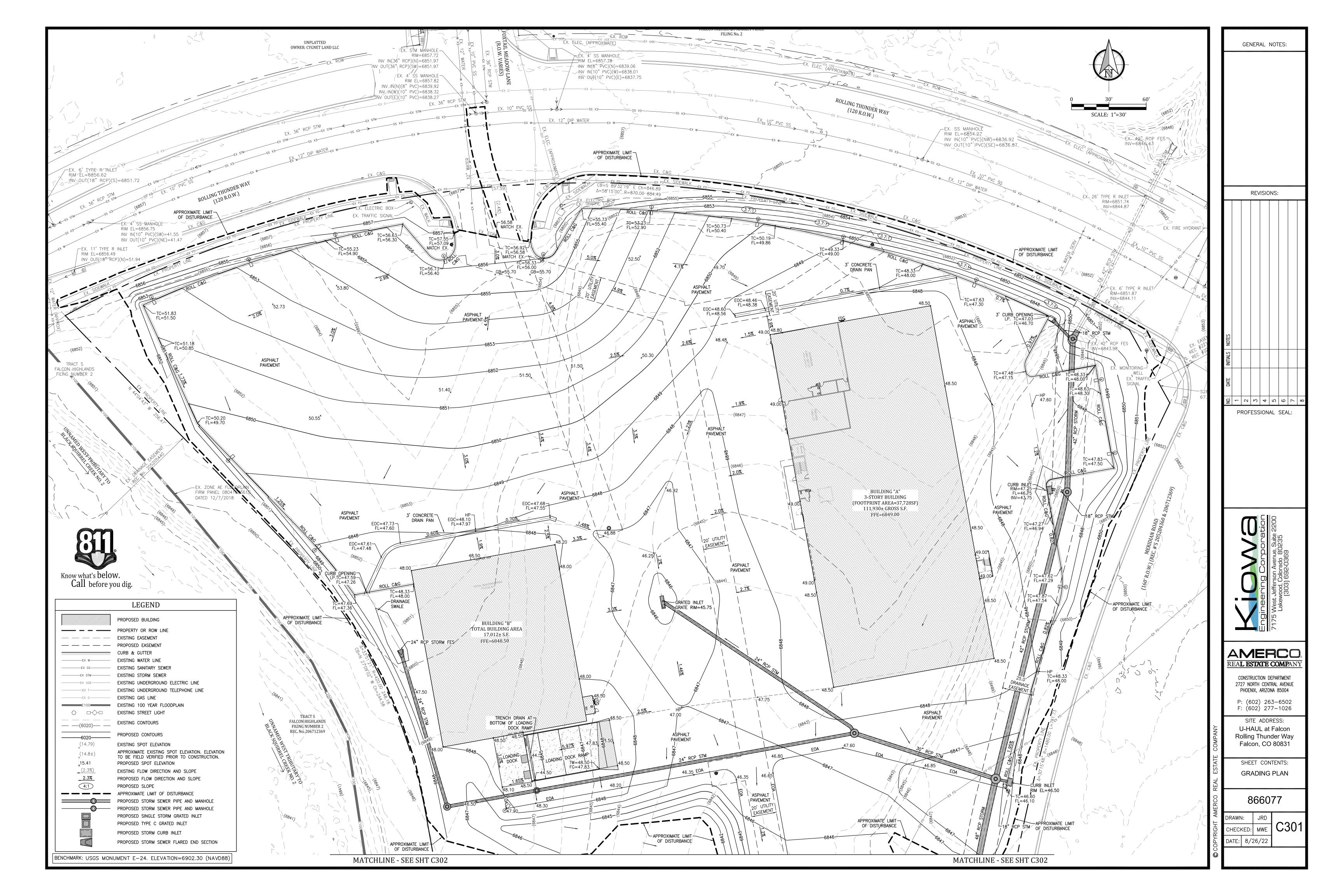


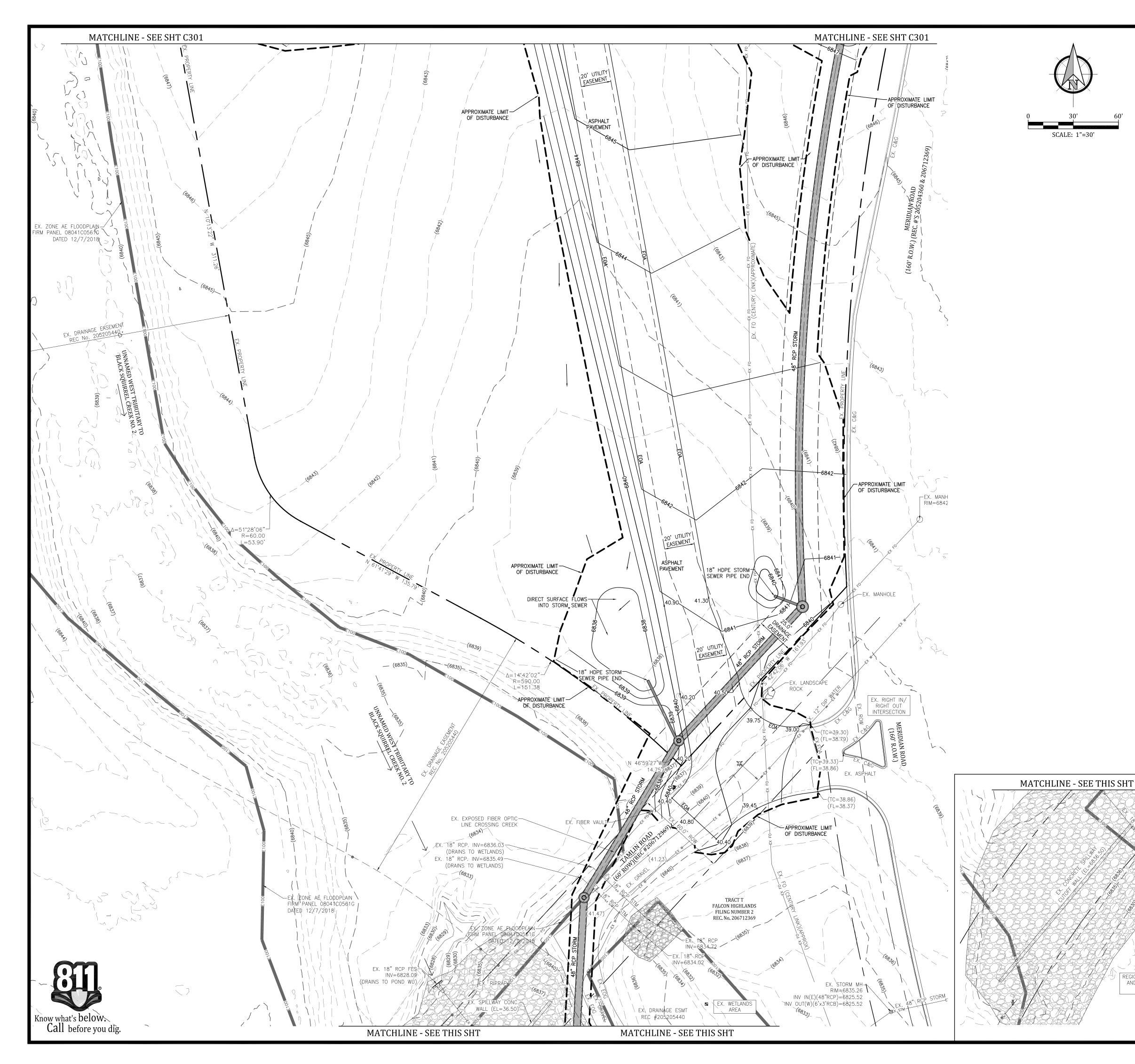


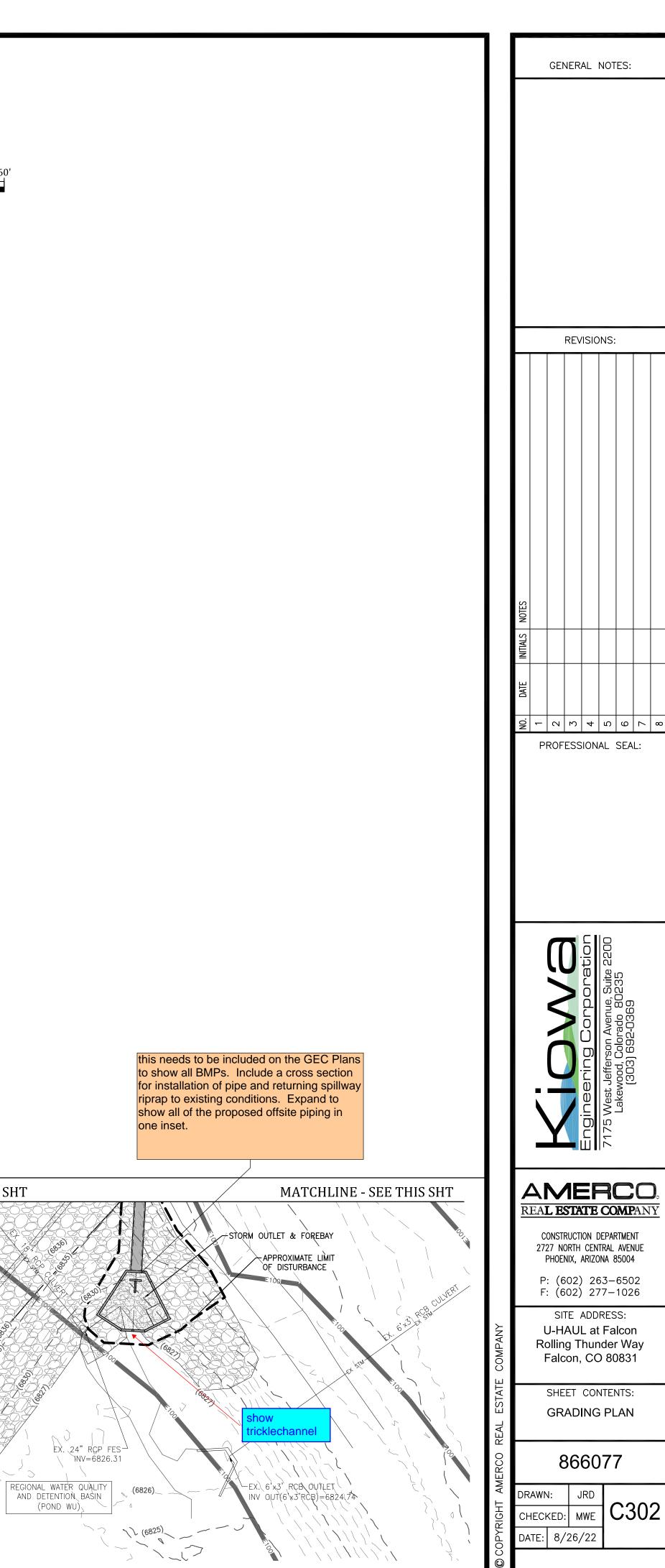
Provide road cross section









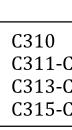


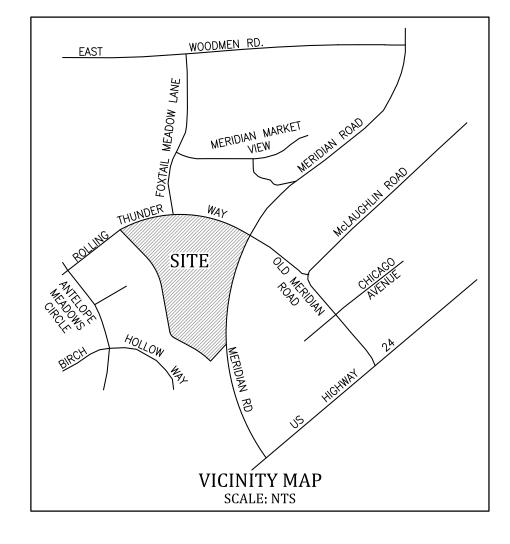
U-HAUL AT FALCON - ROLLING THUNDER WAY GRADING AND EROSION CONTROL PLAN U-HAUL AT FALCON FILING NO. 1 (FALCON HIGHLANDS)

- GRADING AND EROSION CONTROL NOTES EL PASO COUNTY: 1. 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.
- 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 STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
 A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT
- (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED
 QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT
- CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES
- FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
 FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING
- O. FINAL STADILIZATION MUST DE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION STES. FINAL STADILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND FROSION CONTROL MEASURES SHALL BE REMOVED LIDON FINAL STADILIZATION AND DEFORE DEDATE CLOSURE
- EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE. 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. 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 WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
 11. COMPACTION OF SOIL MUST BE PREVENTED IN APPRAS DESIGNATED FOR INFELTRATION CONTROL MEASURES OF WHERE SINAL STADILIZATION. WITH DE ACUPATION OF SOIL
- 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY 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.
 CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED
- TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS 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. 14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
 CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES 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.
- WASTE 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. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER 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.
 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.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE 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.
- 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
 OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN
- 27. UNITER ACT (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). 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.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS. 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND. 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY NINYO & MOORE AND SHALL BE CONSIDERED A DART OF THESE DIANS
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY NINYO & MOORE, AND SHALL BE CONSIDERED A PART OF THESE PLANS.
 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

Water Quality Control Divisi WQCD – Permits 4300 Cherry Creek Drive So Denver, CO 80246-1530 Attn: Permits Unit	buth	please add the date	
ABBR	EVIATIONS NTS = NOT TO SCALE	-	SERVICE
AOST = AOSLINGL1 $BNDY = BOUNDARY$ $BOP = BOTTOM OF PIPE$ $C&G = CURB & GUTTER$ $CL = CENTERLINE$ $CO = CLEAN OUT$ $CRA = CONCRETE REVERSE ANCHOR$ $CR = POINT OF CURB RETURN$ $CS = CROSS SLOPE$ $CTB = CONCRETE THRUST BLOCK$ $DIP = DUCTILE IRON PIPE$ $DTL = DETAIL$ $EL = ELEVATION$ $EOA = EDGE OF ASPHALT$ $ESMT = EASEMENT$ $EX = EXISTING$ $FC = FACE OF CURB$ $FES = FLARED END SECTION$ $FLG = FLANGE$ $FL = FLOWLINE$ $GB = GRADE BREAK$ $GI = GREASE INTERCEPTOR$ $HP = HIGH POINT$ $HORIZ = HORIZONTAL$ $HYD = HYDRANT$ $ID = INSIDE DIAMETER$ $L = LEFT$ $LT = LEFT$ $LF = LINEAR FEET$ $LP = LOW POINT$ $MAX = MAXIMUM$ $MH = MANHOLE$	NTS = NOT TO SOLL OD = OUTSIDE DIAMETER PC = POINT OF HORIZONTAL CURVATURE PLBG = PLUMBING PP = PROPOSED PRC = POINT OF REVERSE CURVE PROP = PROPERTY PT = POINT OF HORIZONTAL TANGENCY PVC = POLY VINYL CHLORIDE PIPE PVC = POINT OF VERTICAL CURVATURE PVI = POINT OF VERTICAL INTERSECTION PVT = POINT OF VERTICAL INTERSECTION PVT = POINT OF VERTICAL TANGENCY R = RADIUS R = RIGHT RCP = REINFORCED CONCRETE PIPE RD = ROOF DRAIN (STORM LINE) ROW = RIGHT OF WAY RT = RIGHT SHT = SHEET SOI = SAND OIL INTERCEPTOR SS = SANITARY SEWER STA = STATION STD = STANDARD TA = TOP OF ASPHALT TB = THRUST BLOCK TC = TOP OF CURB TOA = TOP OF ASPHALT TOC = TOP OF ASPHALT TOC = TOP OF PIPE TYP = TYPICAL VC = VERTICAL CURVE WM = WATER MAIN	PRE-EXCAVATION CHECKLIST GAS AND OTHER UTILITY LINES OF RECORD SHOWN ON PLANS. UTILITIES CENTRAL LOCATING CALLED AT LEAST 2 BUSINESS DAYS AHEAD. UTILITIES LOCATED AND MARKED. EMPLOYEES BRIEFED ON MARKING AND COLOR CODES.* EMPLOYEES TRAINED ON EXCAVATION AND SAFETY PROCEDURES FOR NATURAL GAS LINES. WHEN EXCAVATION APPROACHES GAS LINES, EMPLOYEES EXPOSE LINES BY CAREFUL PROBING AND HAND DIGGING. *A.G.A./A.P.W.A. STANDARD UTILITY MARKING COLOR CODE NATURAL GAS YELLOW WATER BLUE ELECTRIC RED WASTEWATER GREEN Know what's below. Call before you dig.	DEVELOPE CIVIL ENC COMMUNI DRAINAGE WASTEWA FIRE: GAS: ELECTRIC:

EL PASO COUNTY, COLORADO

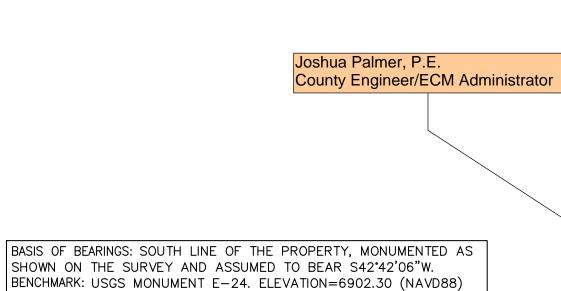




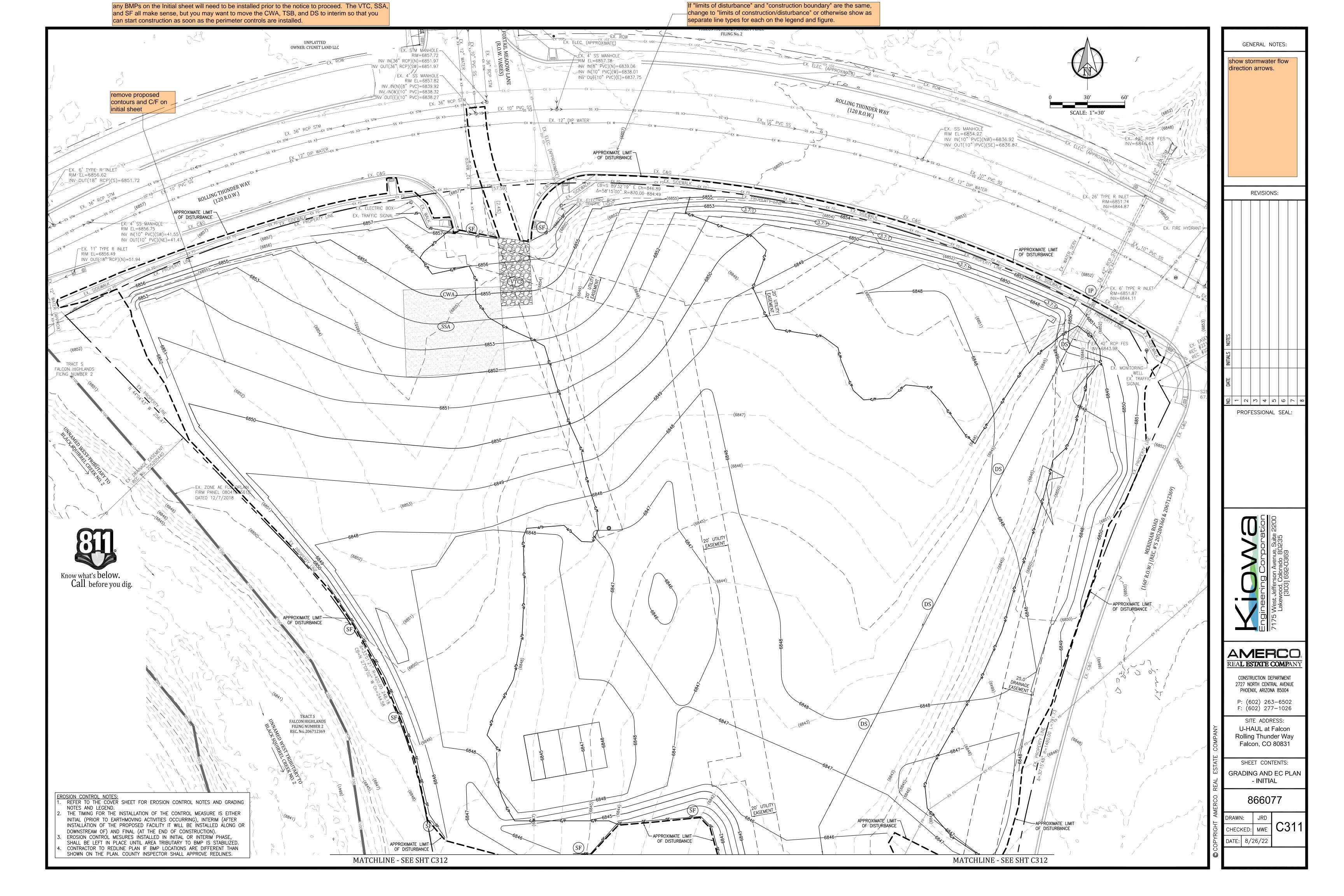
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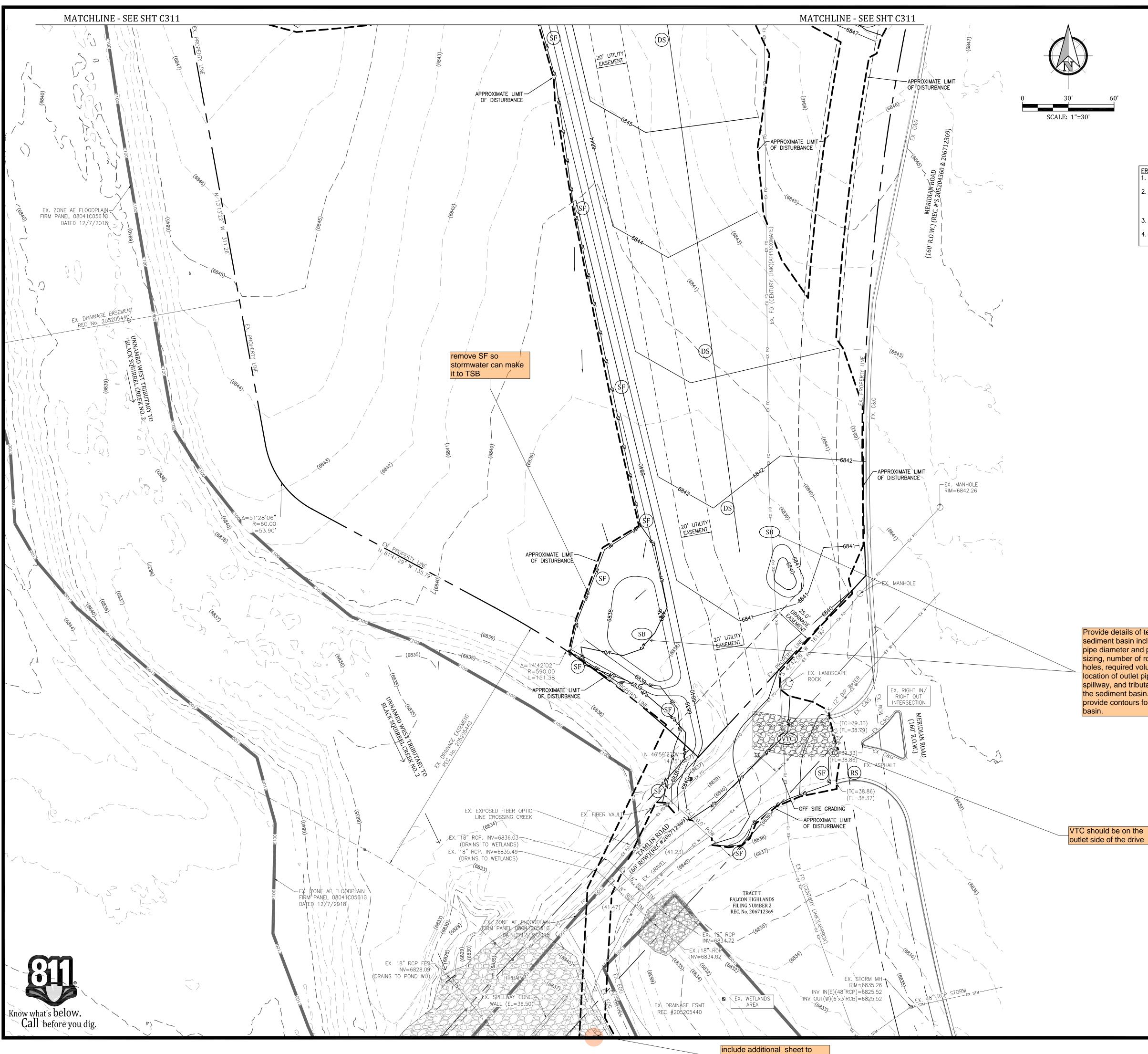
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	CUT/FILL DEMARCATION LINE					
(14.79) ×	EXISTING SPOT ELEVATION					
(2.3%)	EXISTING FLOW DIRECTION AND SLOPE					
2.3%	PROPOSED FLOW DIRECTION AND SLOPE					
(4:1)	PROPOSED SLOPE					
	PROPOSED STORM SEWER PIPE AND MANHOLE PROPOSED SINGLE STORM GRATED INLET					
	PROPOSED SINGLE STORM GRATED INLET					
	PROPOSED STORM CURB INLET					
	PROPOSED STORM SEWER FLARED END SECTION					
CD	CHECK DAM					
CWA	CONCRETE WASHOUT AREA					
CIP	CULVERT INLET PROTECTION					
(DS)	TEMPORARY DRAINAGE SWALE AND EARTH DIKE					
(IP)	INLET PROTECTION					
——————————————————————————————————————	ROCK SOCK					
SB	SEDIMENT BASIN					
	SEDIMENT CONTROL LOG					
	SILT FENCE EROSION BARRIER					
SM	SEEDING AND MULCHING					
(SR)	SURFACE ROUGHENING					
SSA	STABILIZED STAGING AREA					
VTC	VEHICLE TRACKING CONTROL					

CONTACTS						
Е	ENTITY	POINT OF CONTACT				
PER/OWNER	UHC of Southern Colorado 1223B North Academy Blvd Colo Springs, CO 80909	Jeff Gilley 719–337–8154				
NGINEER	Kiowa Engineering Corporation 7175 West Jefferson Ave, #2200 Lakewood, CO 80235	Matthew Erichsen, PE (303) 692—0369				
NITY: SE, GRADING	El Paso County Public Works	 [_] [_]				
ATER & WATER:	Falcon Highlands Metro District c/o JDS Hydro Consultants	Ryan Mangino, PE 719–227–0072				
	Falcon Fire Protection District	Trent Harwig 719-495-4050				
	Colorado Springs Utilities	 [_] [_]				
C:	Mountain View Electric Assoc	 				



							/
				GEI	NERAL I	NOTES:	
	INDEX OF SHEETS EROSION CONTROL PLAN - COVER SHEET						
C312	EROSION CONTROL PLAN - COVER SHEET EROSION CONTROL PLAN - INITIAL PHASE EROSION CONTROL PLAN - INTERIM/FINAL PHASE						
	EROSION CONTROL PLAN - INTERIM/FINAL PHASE EROSION CONTROL PLAN - DETAIL SHEET				REVISIO	NS:	
			S				
			S NOTES				
	If "limits of disturbance" and		INITIALS				
	"construction boundary" are the same, change to "limits of construction/disturbance" or		DATE				
	otherwise show as separate line types for each on the		NO.	- 2	ъ 4	و ک	8
	legend and figure.			PROF	ESSION	AL SEA	_:
	Move signature blocks						
	to CDs cover sheet			Π		2200	
					orat	Suite 1 2235	
						venue, ado 80 0369	
	Design Engineer's Statement: These detailed plans and specifications were prepared under my direction and supervision.			ŕ	D D	Colora Colora 1) 692-	
	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				enir	West Jeffe Lakewood, [303	,
	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,				gine	5 Wes Lak	
	errors or omissions on my part in preparation of these detailed plans and specifications.		•	Y	С	717	
							$\overline{}$
	Matthew W. Erichsen, P.E. #36713DateFor and on behalf of Kiowa Engineering Corp.Date		RE		STATE	COMP	<u>ANY</u>
	<u>Owner/Developer's Statement:</u> I, the owner/developer have read and will comply with all of the requirements of the grading		2	2727 N	RUCTION D	RAL AVEN	UE
	and erosion control plan and all of the requirements specified in these detailed plans and specifications.			P: (6	NIX, ARIZO	3-650	2
	Owner Signature Date				502) 27 TE ADD		0
		COMPANY	F	Rollin	AUL at g Thun	der Wa	ay
	<u>El Paso County:</u> 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				on, CC		
	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.	ESTATE	GF		ET CON		
J	Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual, and Engineering Criteria Manual as amended.	REAL	<u> </u>		OVER S		
	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 these 2 years, the plane will need to be resubmitted for	AMERCO		5	3660	77	
	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.		DRAN CHF	WN: CKED	JRD : MWE	C.3	10
		COPYRIGHT	DATE		26/22		. 🗸
	Date County Engineer	Ŭ Û					





show all areas of disturbance

EROSION CONTROL NOTES: 1. REFER TO THE COVER SHEET FOR EROSION CONTROL NOTES AND GRADING NOTES AND LEGEND. THE TIMING FOR THE INSTALLATION OF THE CONTROL MEASURE IS EITHER

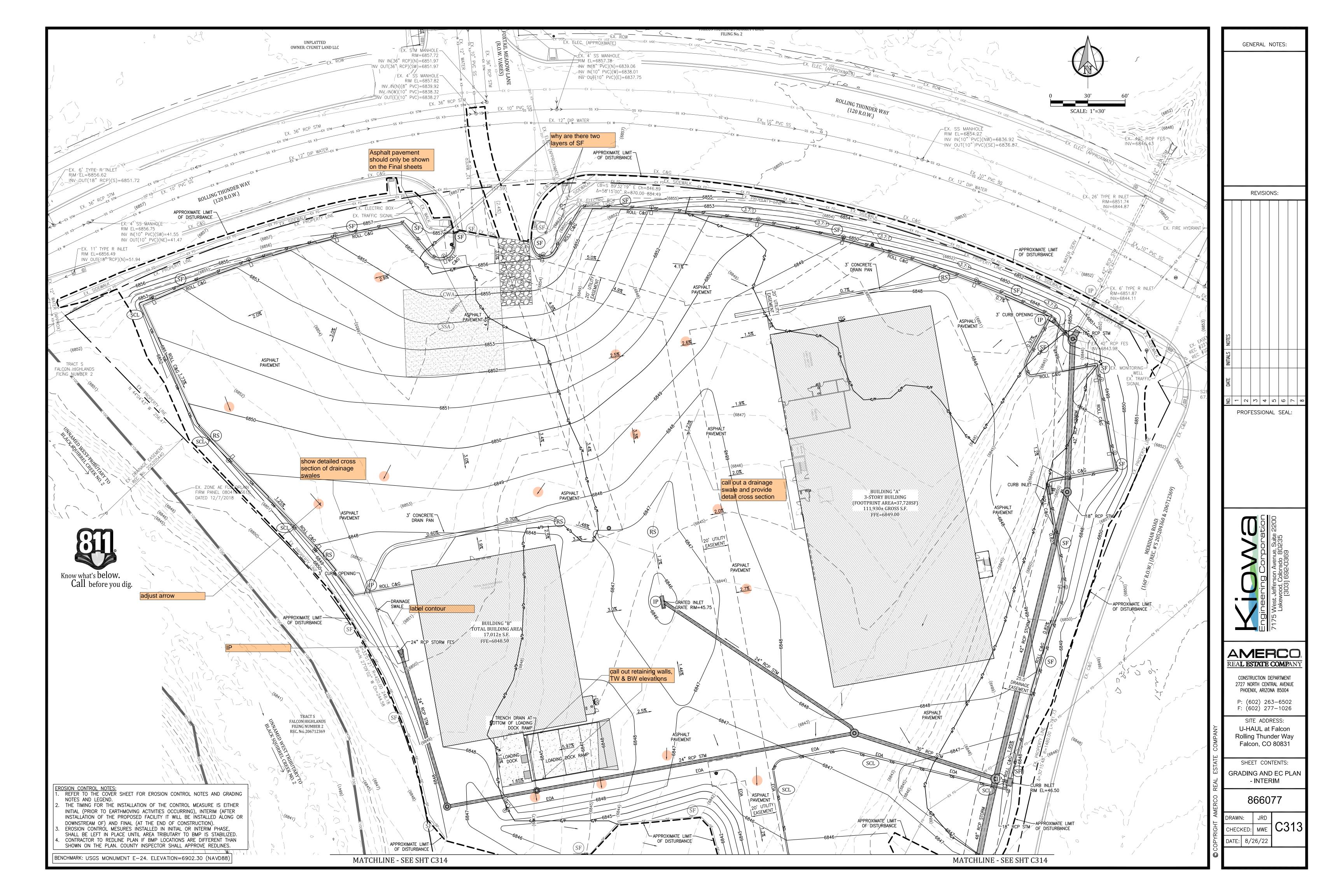
- INITIAL (PRIOR TO EARTHMOVING ACTIVITIES OCCURRING), INTERIM (AFTER INSTALLÀTION OF THE PROPOSED FACILITY IT WILL BE INSTALLED ALONG OR DOWNSTREAM OF) AND FINAL (AT THE END OF CONSTRUCTION).
- EROSION CONTROL MESURES INSTALLED IN INITIAL OR INTERIM PHASE, SHALL BE LEFT IN PLACE UNTIL AREA TRIBUTARY TO BMP IS STABILIZED. CONTRACTOR TO REDLINE PLAN IF BMP LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLAN. COUNTY INSPECTOR SHALL APPROVE REDLINES.

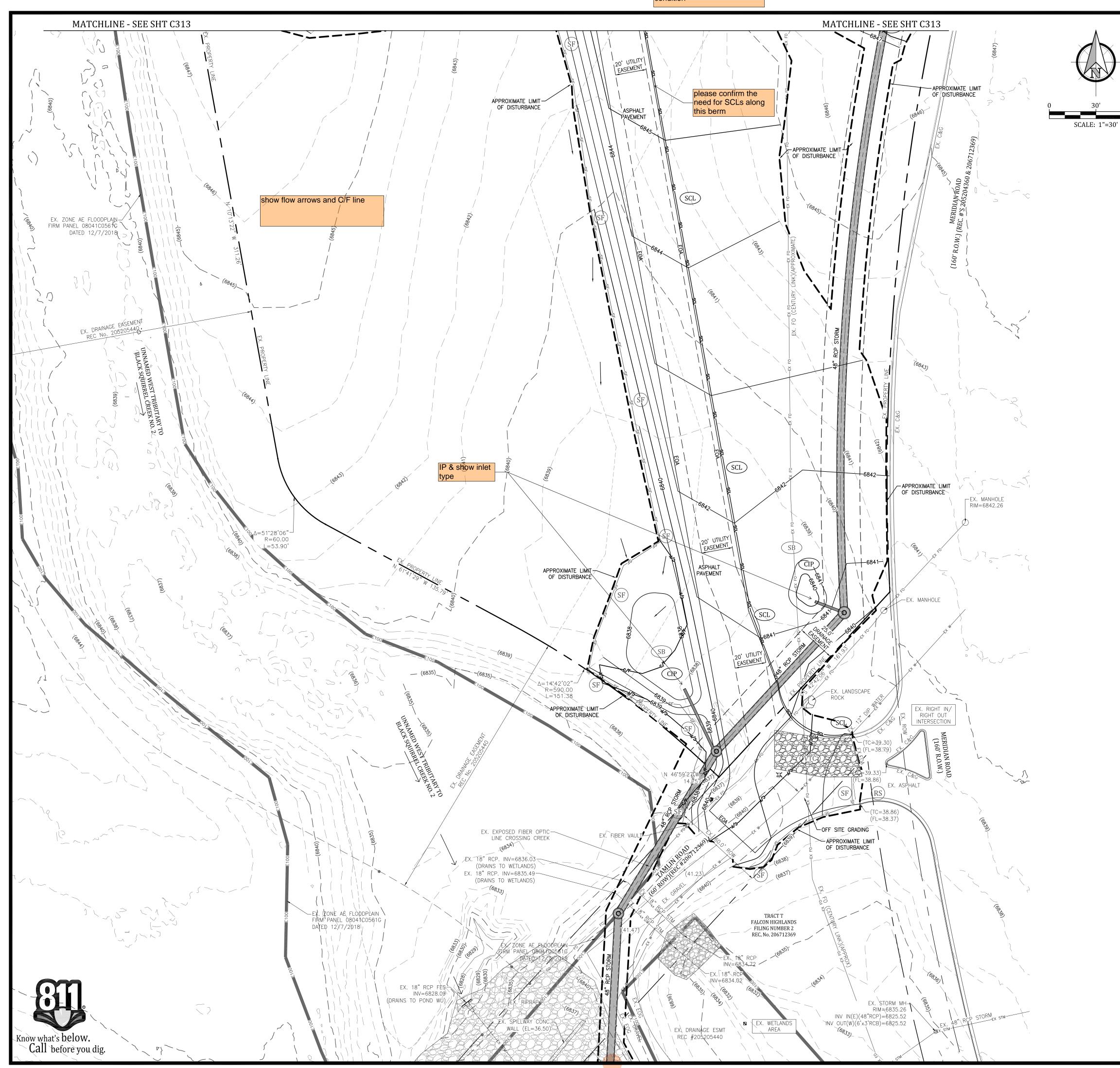
Provide details of temporary sediment basin including riser pipe diameter and perforation sizing, number of rows of holes, required volume, location of outlet pipe and spillway, and tributary area to the sediment basin. And provide contours for sediment

REVISIONS: PROFESSIONAL SEAL: **AMERCO** REA**L ESTATE COMP**ANY CONSTRUCTION DEPARTMENT 2727 NORTH CENTRAL AVENUE PHOENIX, ARIZONA 85004 P: (602) 263-6502 F: (602) 277-1026 SITE ADDRESS: U-HAUL at Falcon Rolling Thunder Way Falcon, CO 80831 SHEET CONTENTS: GRADING AND EC PLAN - INITIAL 866077 DRAWN: JRD CHECKED: MWE C312

DATE: 8/26/22

GENERAL NOTES:

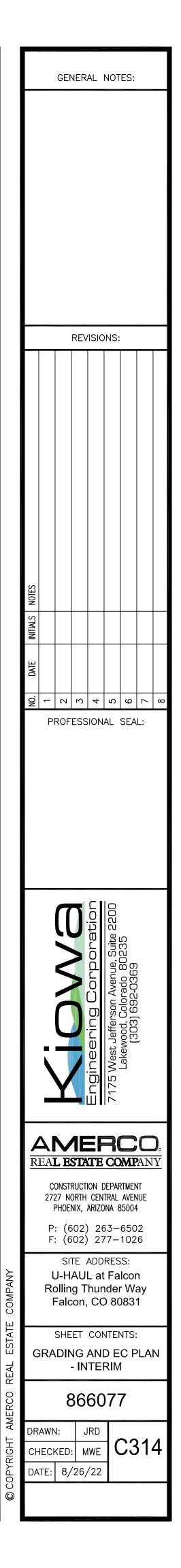


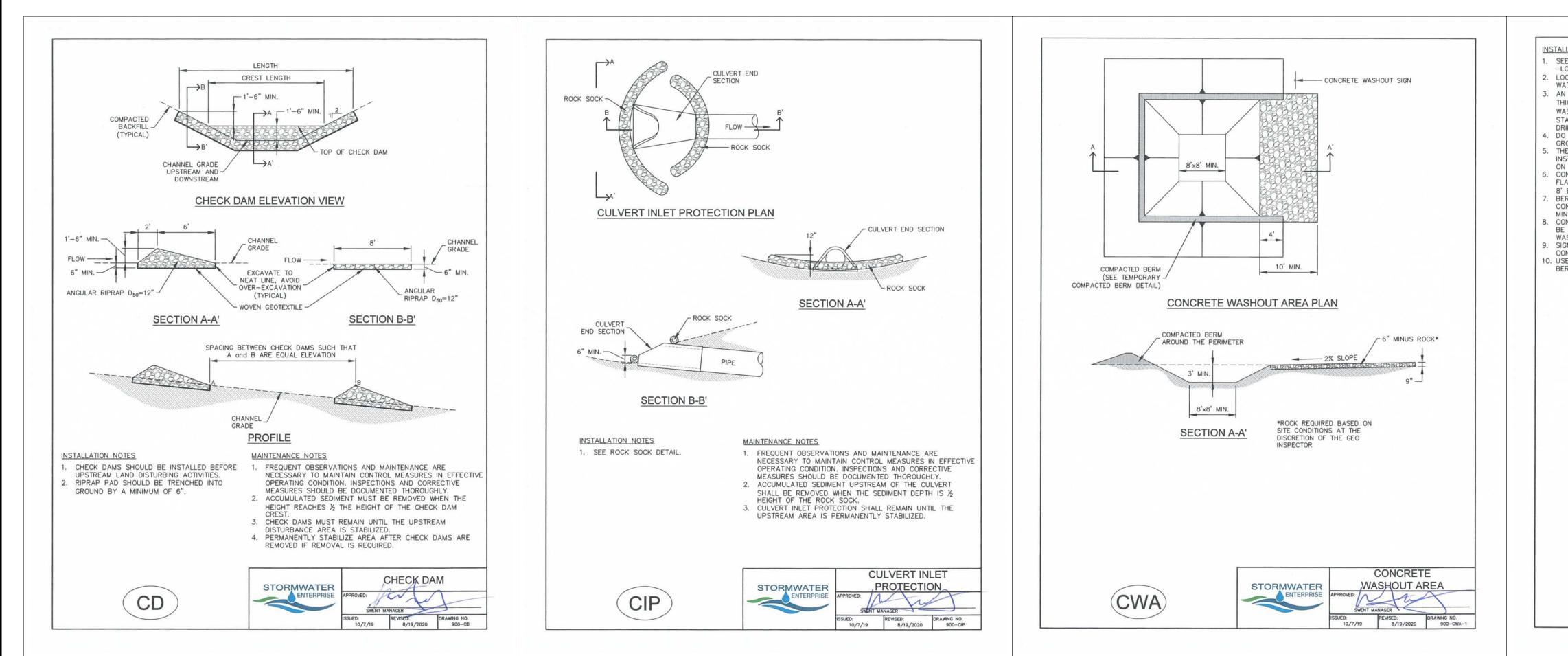


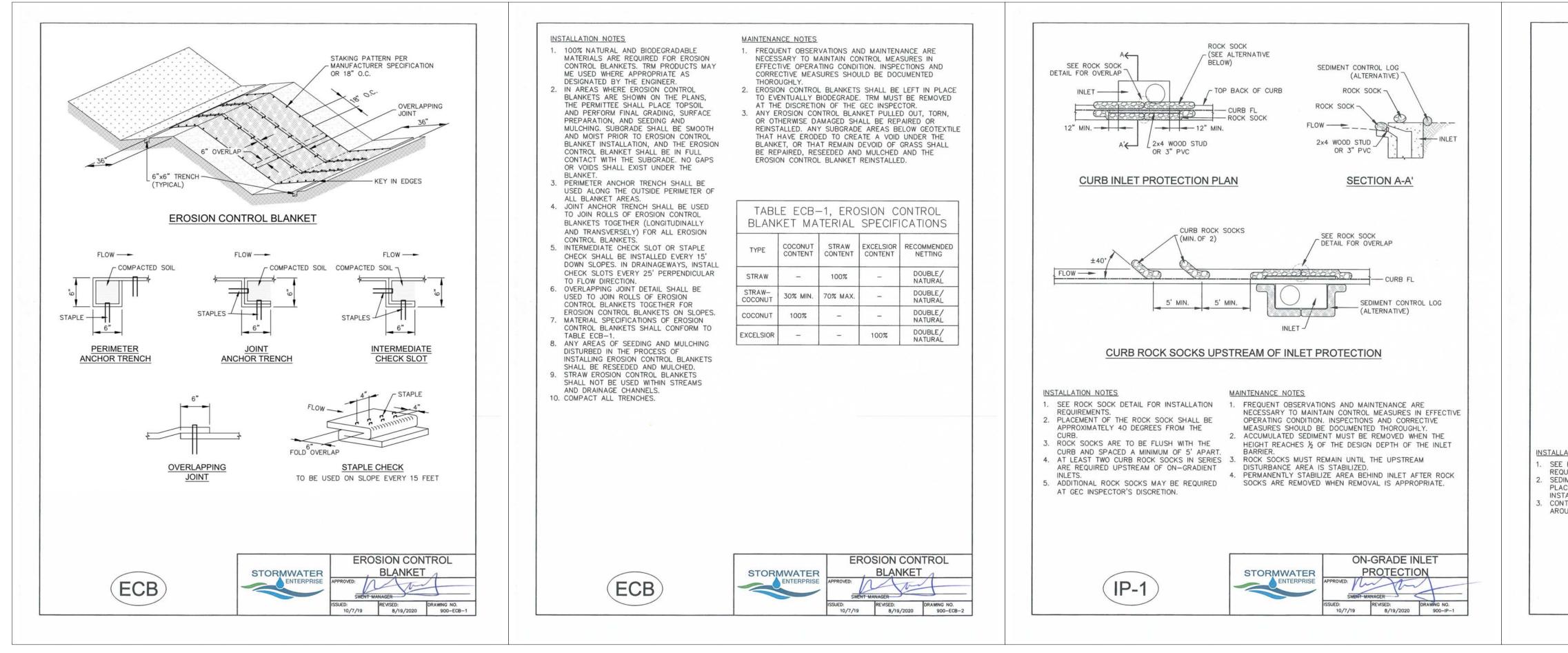
show drainage swale in interim condition

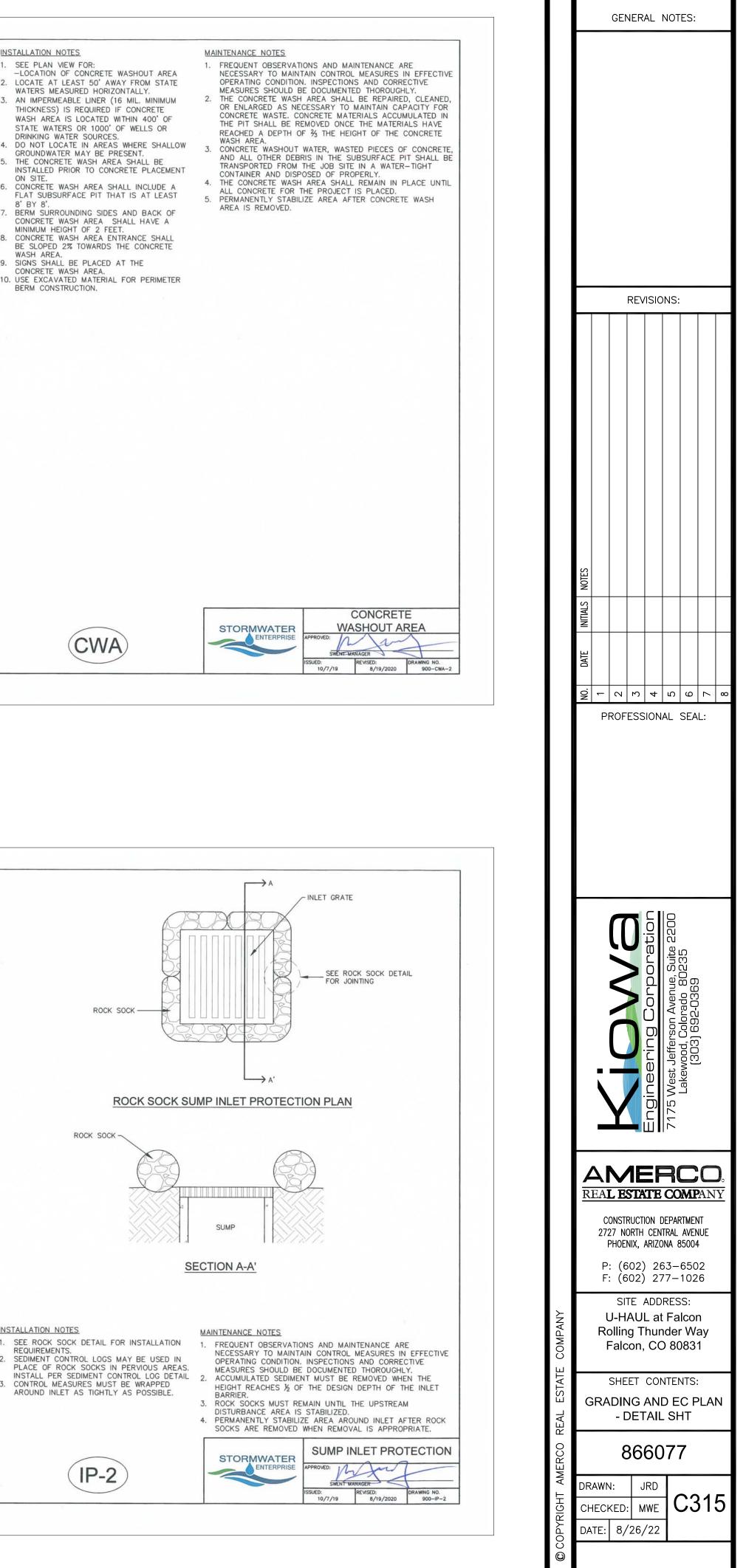
- EROSION CONTROL NOTES: 1. REFER TO THE COVER SHEET FOR EROSION CONTROL NOTES AND GRADING NOTES AND LEGEND.
- THE TIMING FOR THE INSTALLATION OF THE CONTROL MEASURE IS EITHER INITIAL (PRIOR TO EARTHMOVING ACTIVITIES OCCURRING), INTERIM (AFTER INSTALLÀTION OF THE PROPOSED FACILITY IT WILL BE INSTALLED ALONG OR DOWNSTREAM OF) AND FINAL (AT THE END OF CONSTRUCTION). EROSION CONTROL MESURES INSTALLED IN INITIAL OR INTERIM PHASE,
- SHALL BE LEFT IN PLACE UNTIL AREA TRIBUTARY TO BMP IS STABILIZED.
- CONTRACTOR TO REDLINE PLAN IF BMP LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLAN. COUNTY INSPECTOR SHALL APPROVE REDLINES.

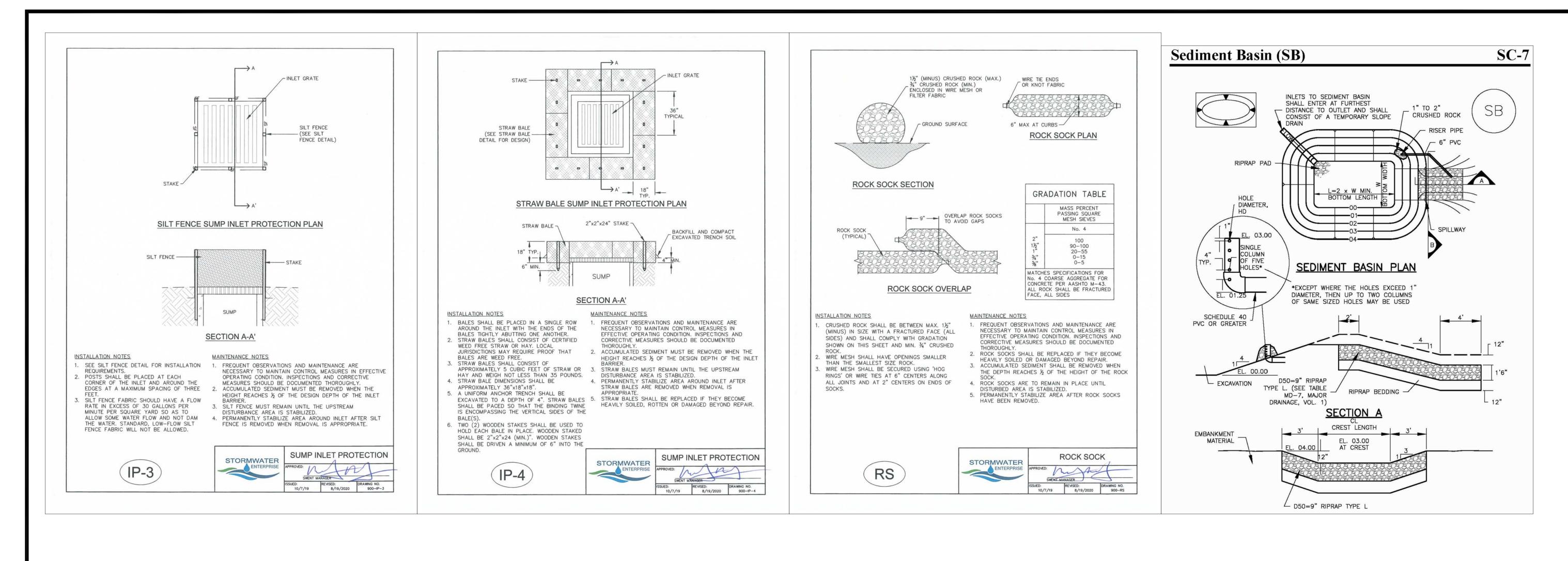
include final sheets which will show final contours and all proposed finished surfaces (asphalt, seeding/mulching, concrete, etc.)











Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	952 1376 25 976 2552 2552 2552 2752 2752 2752 2752 78 1576 3552
2	21	3	1716
3	28	2 3 5 6 8 9	12
4 5 6 7	33 1/2	6	716
5	38 ½ 43	8	21/32
5	47 1/4	9 11	254
	51	12	27/2
8 9	55	13	732
10	58 1/4	15	15/16
11	61	16	3142
12	64	18	1
13	67 ½	19	1 16
14	70 1/2	21	1 1/8 1 3/16
15	73 1/4	22	1 3/16

SEDIMENT BASIN INSTALLATION NOTES

. SEE PLAN VIEW FOR: -LOCATION OF SEDIMENT BASIN.

-TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).

-FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.

-FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.

2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.

3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL.

4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.

6. PIPE SCH 40 OR GREATER SHALL BE USED.

7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SEDIMENT BASIN MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

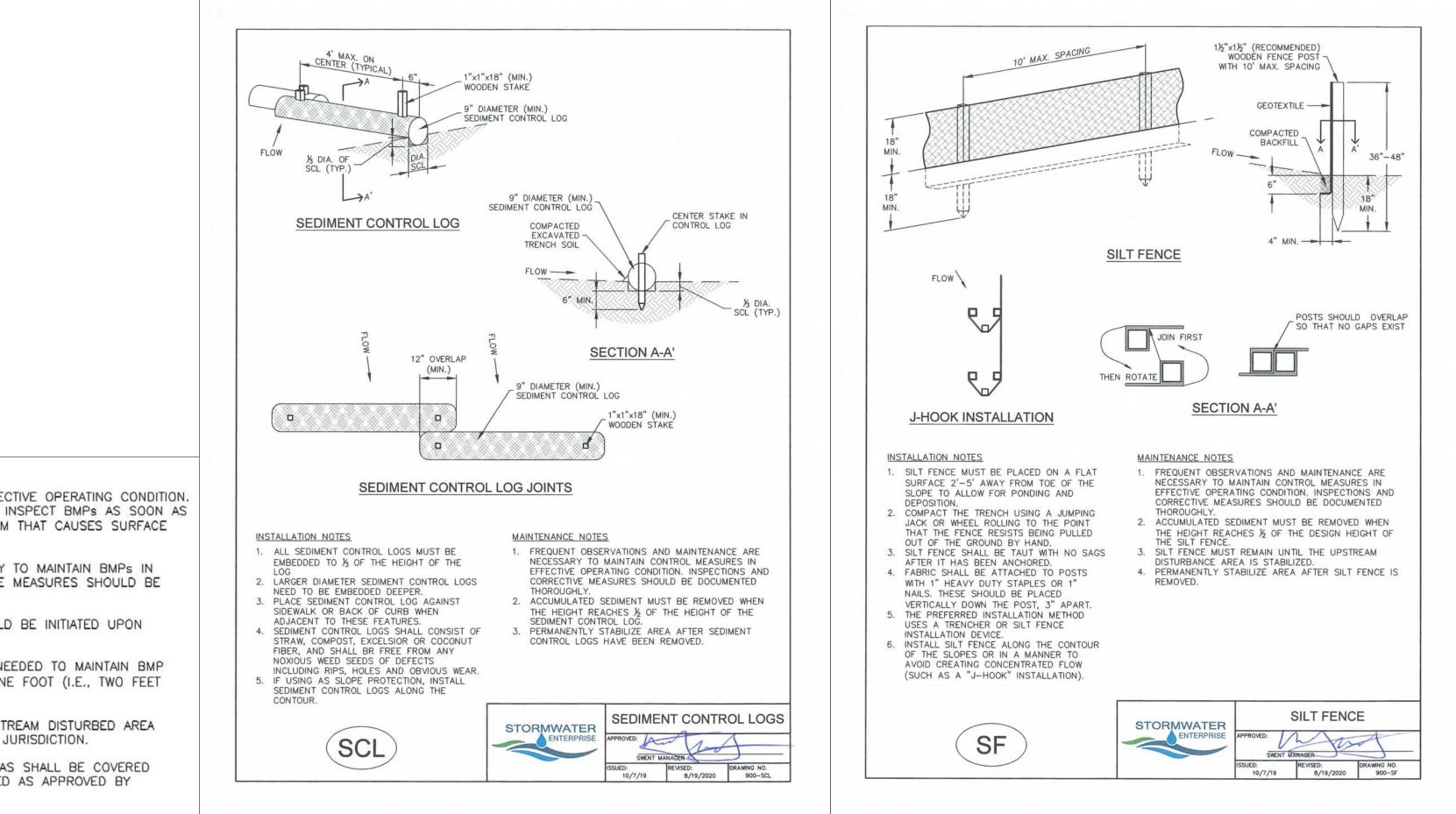
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

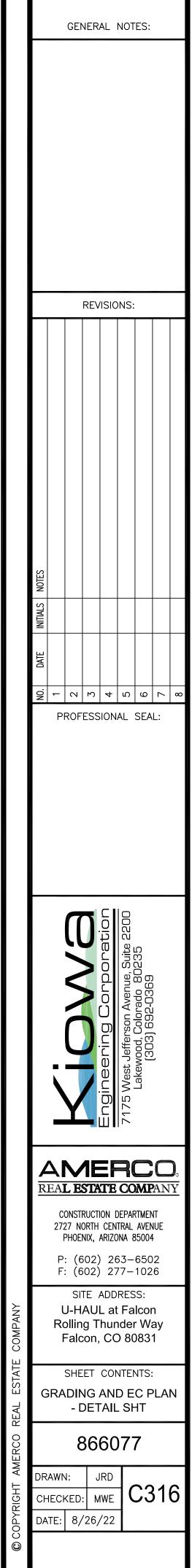
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

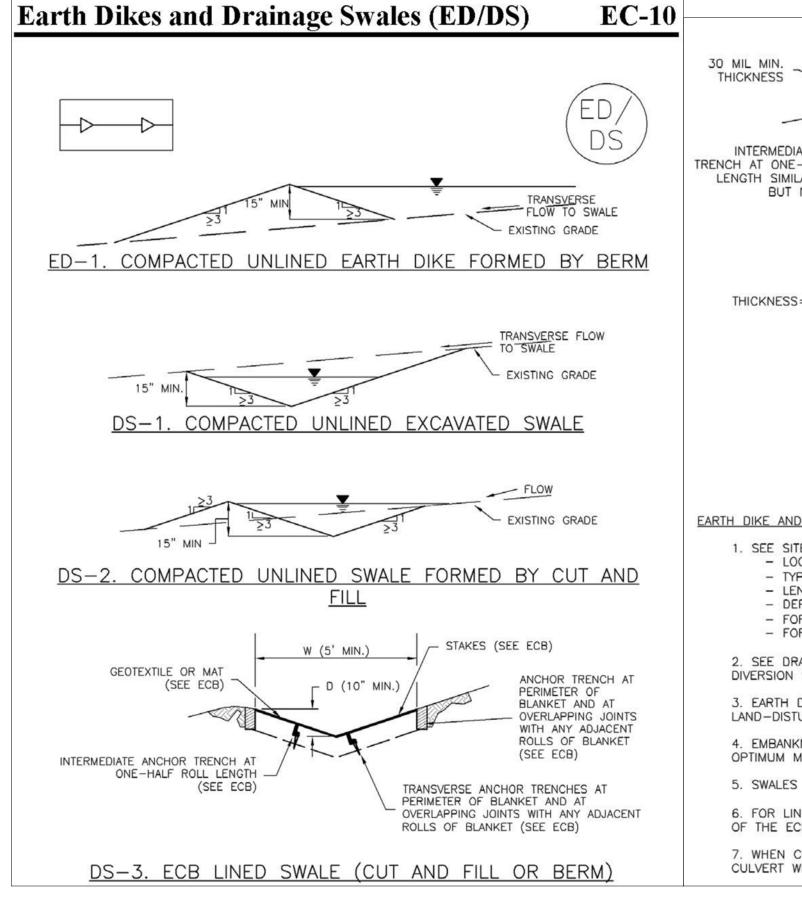
5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION. 6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY

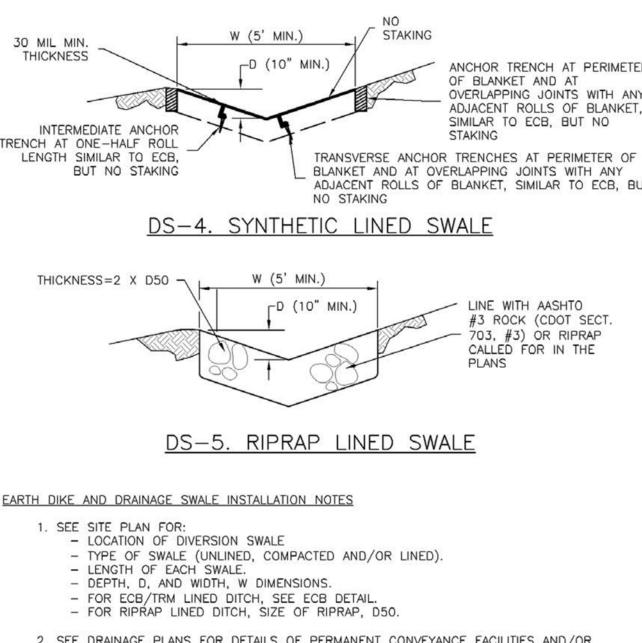
LOCAL JURISDICTION.





SEEDING & MULCHING	Control Measu	Ie Aleas					
LL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS					Pounds PLS		
 MUST BE ADDED TO THE CSWMP. SOIL PREPARATION 1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS. 2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH. 3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS. 4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID 	Common Name	Scientific Name	Growth Season / Form	% of Mix	 Irrigated broadcast Irrigated hydroseeded 80 seeds/sq ft 	 Non-irrigated broadcast Non-irrigated hydroseeded Irrigated drilled 40 seeds/sq ft 	 Non-irrigated drilled 20 seeds/sq ft
OMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN REA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT HE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING ONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED I SWALES OR IN AREAS WITH POOR DRAINAGE.	Bluestem, big	Andropogon gerardii	Warm, sod	20	4.4	2.2	1.1
G LOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION NUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.	Grama, blue	Bouteloua gracilis	Warm, bunch	10	0.5	0.25	0.13
SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE • SEED DEPTH MUST BE ½ TO ½ INCHES WHEN DRILL-SEEDING IS USED BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED. • SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION	Green needlegrass ²	Nassella viridula	Cool, bunch	10	2	1	0.5
IRILL OR HYDRO-SEEDING BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL	Wheatgrass, western ²	Pascopyrum smithii	Cool, sod	20	6.4	3.2	1.6
JLCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS JST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING. JLCHING REQUIREMENTS INCLUDE: HAY OR STRAW MULCH - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE	Grama, sideoats	Bouteloua curtipendula	Warm, b <mark>u</mark> nch	10	2	1	0.5
 APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER. CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES. TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1. HYDRAULIC MULCHING HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED. 	Switchgrass ²	Panicum virgatum	Warm, bunch/sod	10	0.8	0.4	0.2
 IF HYDRO-SEEDING IS AN OFHON ON STEEP BLORES ON WHERE ACCESS IS LIMITED. IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION. WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE. EROSION CONTROL BLANKET EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS. 	Prairie sandreed	Calimovilfa Iongifolia	Warm, sod	10	1.2	0.6	0.3
- EROSION CONTROL BLANKET MAT BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.	Yellow indiangrass ²	Sorghastrum nutans	Warm, sod	10	2	1	0.5
			Seed rate (I	bs PLS/acre)	19.3	9.7	4.8

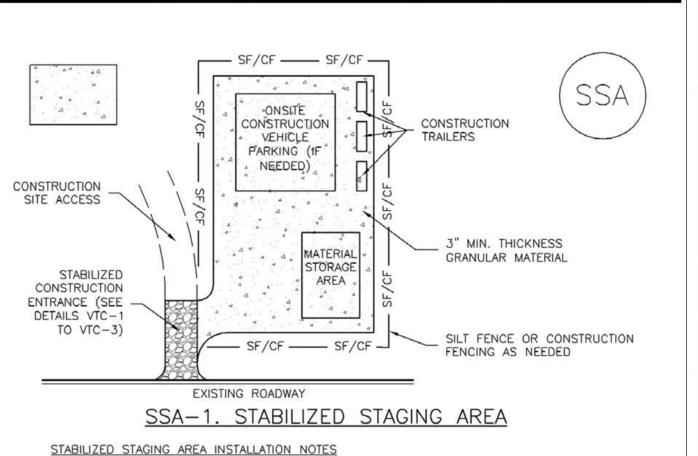




2. SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS. 3. EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROXIMITY. 4. EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698. 5. SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP. 6. FOR LINED DITCHES, INSTALLATION OF ECB/TRM SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.

7. WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12 INCHES.

Stabilized Staging Area (SSA)



SM-6

1. SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S).

-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

EARTH DIKE AND DRAINAGE SWALE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

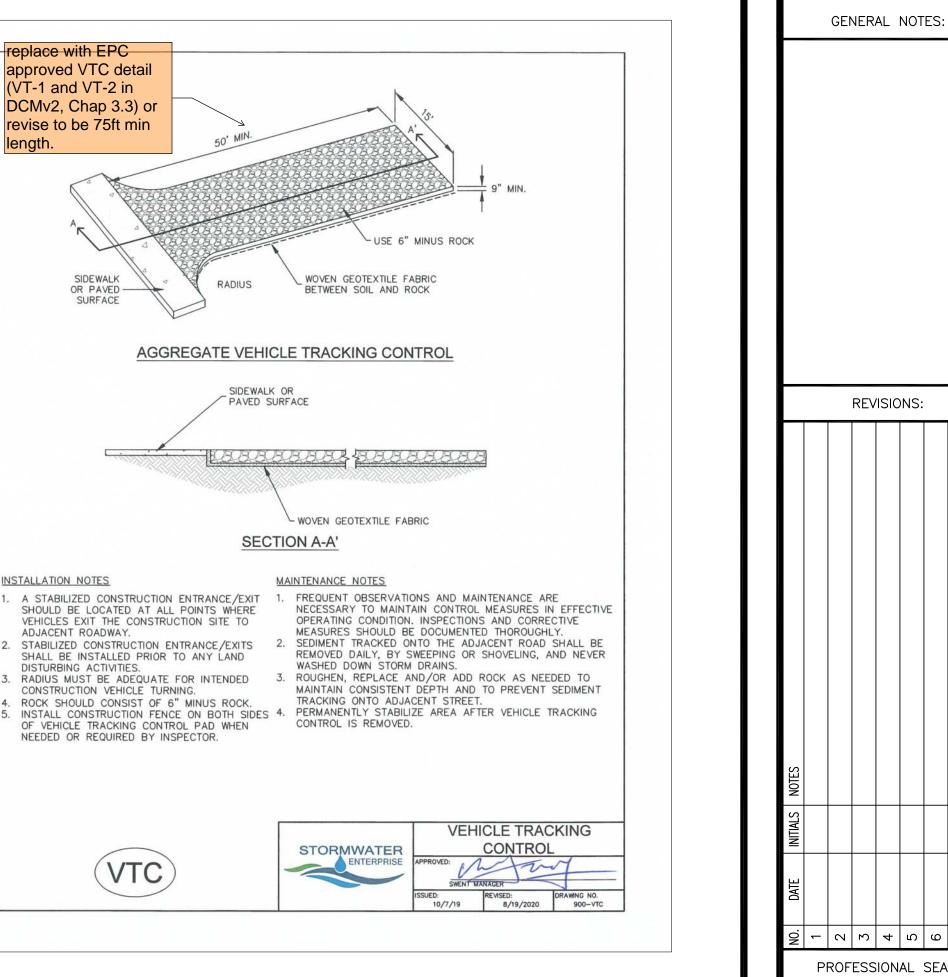
4. SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION; IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE.

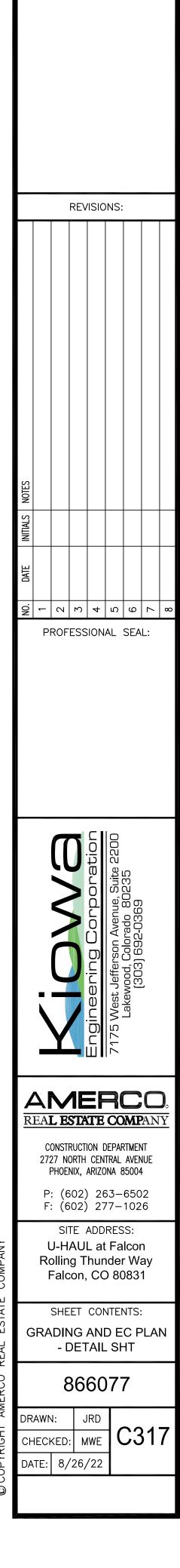
5. WHEN A SWALE IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

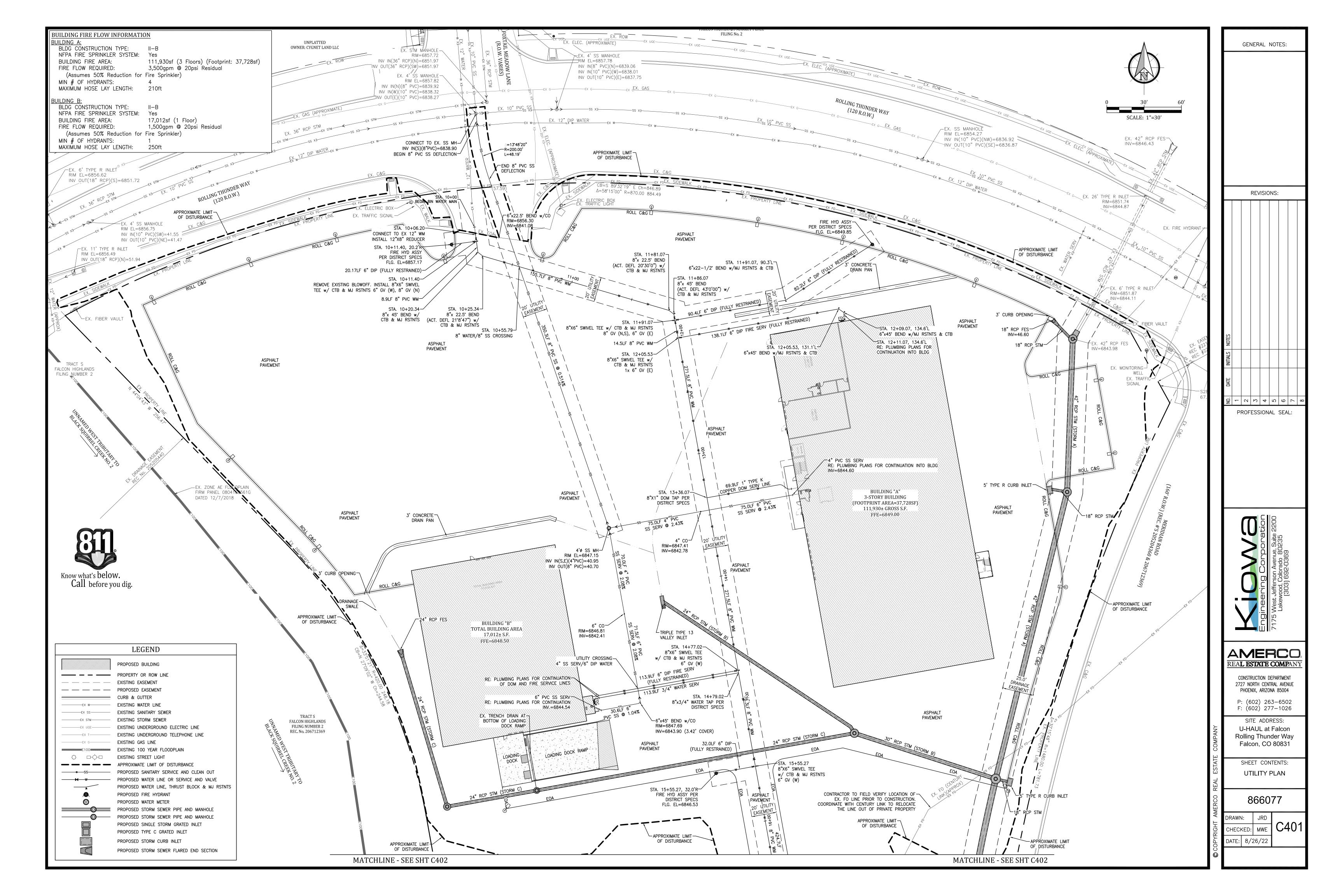
ANCHOR TRENCH AT PERIMETER OF BLANKET AND AT OVERLAPPING JOINTS WITH ANY ADJACENT ROLLS OF BLANKET, SIMILAR TO ECB, BUT NO

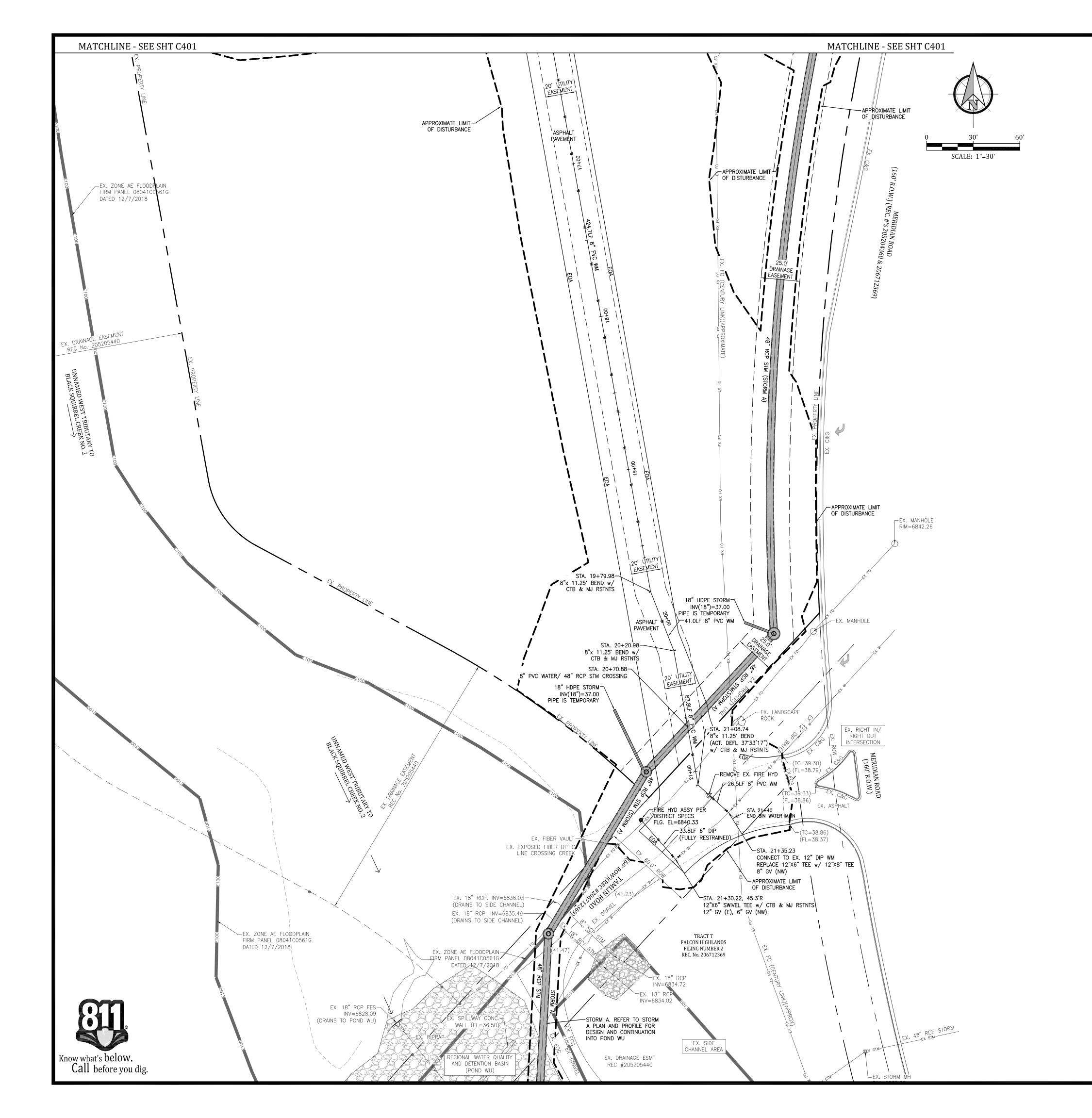
BLANKET AND AT OVERLAPPING JOINTS WITH ANY ADJACENT ROLLS OF BLANKET, SIMILAR TO ECB, BUT

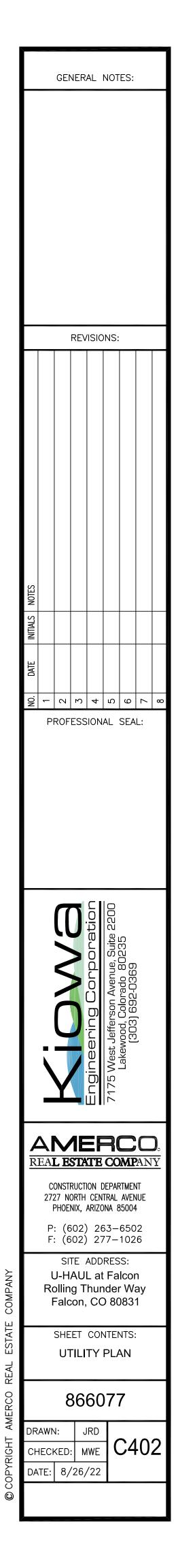
LINE WITH AASHTO #3 ROCK (CDOT SECT. 703, #3) OR RIPRAP CALLED FOR IN THE

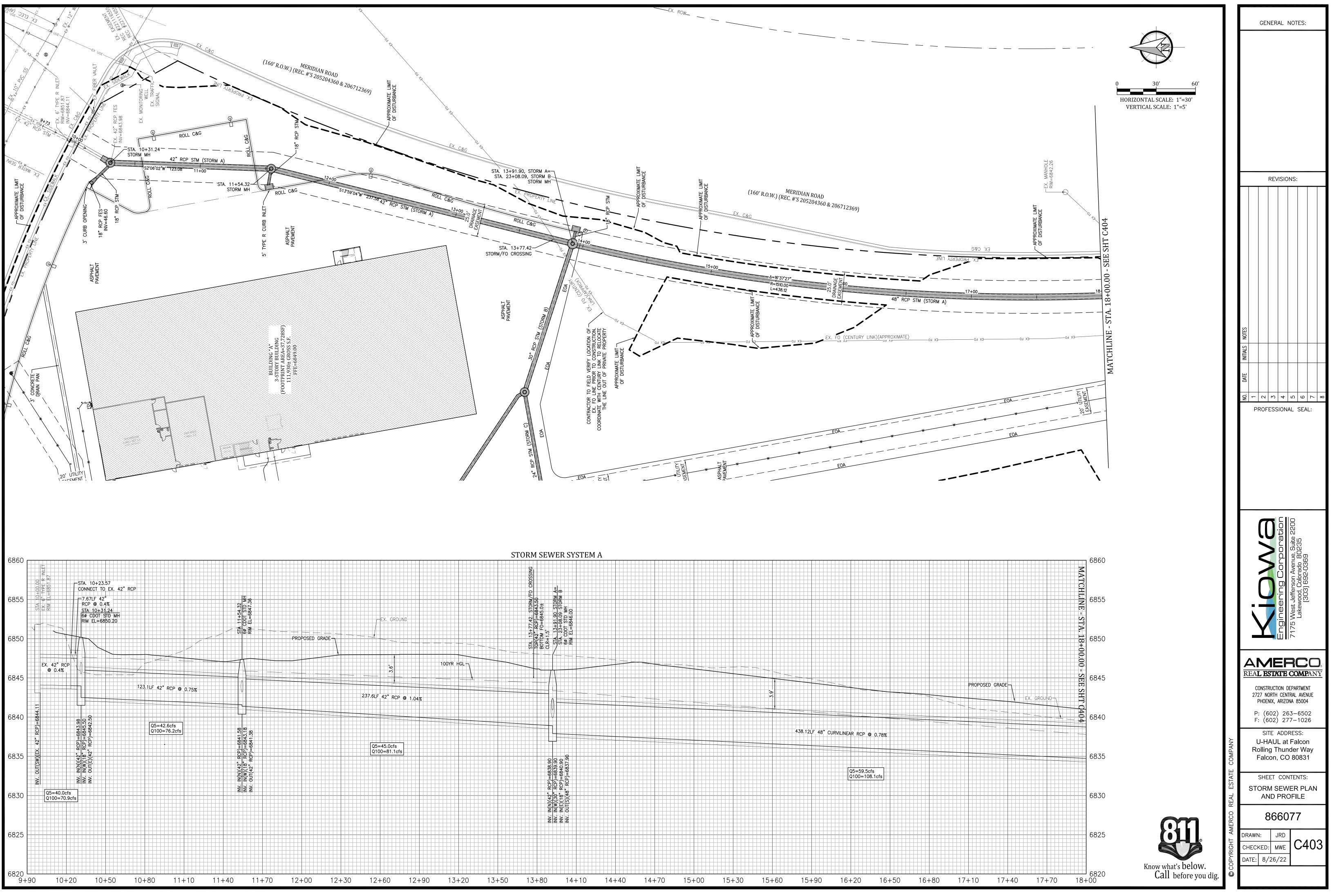












	STORM SEWER	SYSTEM A								
	STA. 13+77.42. STORM/FO CROSSING TOP(42" RCP)=6843.50 BOTTOM FO=6843.50 LR=1.5 CLR=1.5 STA. 13+91.90 STORM A= STA. 23+08.09 STORM B									
	STA. 13+77.42. STORM/FC GPP(42" RCP)=6843.50 SOTTOM FO=6845.0± SLR=1.5' STA. 23+08.09 STORM I	EL=6846.00								
	STA. 1 STA. 1 BOTTOR CLR=1 CLR=1 STA.									
							б. Г.			
								138.12LF 48" CUR	VILINEAR RCP @ 0.78%	
		06'2								
	 /. N(N)(42" RCP) = 6838.90 /. N(W)(30" RCP) = 6839.90 /. N(W)(30" RCP) = 6840.90 	" RCP)=683							Q5=59.5cfs Q100=108.1cfs	
	. IN(N)(42" . IN(N)(42" . IN(W)(30"	. OUT(S)(48								
13+20 13	5+50 13+80	14+10 14	+40 14	-+70	15+00	15+30	15+60	15+90	16+20 16+5	0 16+80

