

OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DOCUMENTS

FALCON MARKETPLACE

SE 1/4 OF THE SE 1/4 OF SECTION 1,
T13S, R65W OF THE 6TH P.M.
11680 E. WOODMEN ROAD
FALCON, COLORADO

AGENCY CONTACTS

COUNTY EL PASO COUNTY DEVELOPMENT SERVICES
KARI PARSONS, PROJECT MANAGER/PLANNER II
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910
(719) 520-6300

FIRE FALCON FIRE DEPARTMENT
TRENT HARWIG, FIRE CHIEF
7030 OLD MERIDIAN ROAD
FALCON, CO 80831
(719)495-4050

WATER WOODMEN HILLS METROPOLITAN DISTRICT
GENE COZZOLINO, DIRECTOR OF WATER & WASTEWATER
8046 EASTONVILLE ROAD
FALCON, CO 80831
(719) 495-2500

WASTEWATER WOODMEN HILLS METROPOLITAN DISTRICT
GENE COZZOLINO, DIRECTOR OF WATER & WASTEWATER
8046 EASTONVILLE ROAD
FALCON, CO 8083
(719) 495-2500

ELECTRIC MOUNTAIN VIEW ELECTRIC ASSOCIATION
LES ULFERS
11140 E. WOODMEN ROAD
FALCON, CO 80831
(719) 495-2283

GAS COLORADO SPRINGS UTILITIES
TODD STURTEVANT
1521 HANCOCK EXPRESSWAY
COLORADO SPRINGS, CO 80947
(719) 668-3556

TELEPHONE CENTURY LINK
SALLY KLEIN
(719) 636-4329
(LOCATORS) (719) 597-8418
AT&T
(LOCATORS) (719) 635-3674

CABLE COMCAST
DALE STEWART
213 N. UNION BLVD
COLORADO SPRINGS, CO 80909
(719) 442-4733

PETROLEUM NUSTAR
DANNY McCRORY
7810 DRENNAN ROAD
COLORADO SPRINGS, CO 80925
(719) 391-0942

OTHER WOODMEN ROAD METROPOLITAN DISTRICT
TERRY SCHOOLER
20 BOULDER CRESCENT, SUITE #200
COLORADO SPRINGS, CO 80903
(719) 447-1777

ESTIMATED COST OF TEMPORARY + PERMANENT BMPs INCLUDING INSTALLATION AND MAINTENANCE UNTIL FINAL STABILIZATION (FINAL + INTERIM STAGE)

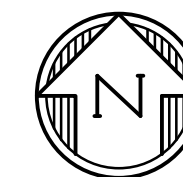
NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	Earthwork	78000	CY	\$5.00	\$390,000.00
2	Permanent Seeding	10.4	AC	\$582.00	\$6,052.80
3	Mulching	10.4	AC	\$507.00	\$5,272.80
4	Permanent Erosion Blanket	5900	SY	\$6.00	\$35,400.00
5	Temporary Erosion Blanket	0	SY	\$3.00	\$0.00
6	Vehicle Tracking Control	1	EA	\$1,626.00	\$1,626.00
7	Safety Fence	5000	LF	\$3.00	\$15,000.00
8	Silt Fence	4900	LF	\$4.00	\$19,600.00
9	Temporary Seeding	21.8	AC	\$485.00	\$10,573.00
10	Temporary Mulch	21.8	AC	\$507.00	\$11,052.60
11	Erosion Bales	31	EA	\$21.00	\$651.00
12	Erosion Logs	0	LF	\$6.00	\$0.00
13	Rock Ditch Checks	0	EA	\$0.00	\$0.00
14	Inlet Protection	14	EA	\$153.00	\$2,142.00
15	Sediment Basin	4	EA	\$1,625.00	\$6,500.00
16	Concrete Washout Basin	1	EA	\$776.00	\$776.00
17	Clay Liner - Pond SR4	6250	CY	\$3.00	\$18,750.00
	TOTAL				\$523,396.20

???

this number seems entirely too low, please provide justification for this value, and show how you got 6250 cy? Please confirm where the clay is coming from.



VICINITY MAP
NOT TO SCALE



BENCHMARK

ELEVATIONS ARE BASED ON COLORADO SPRINGS UTILITIES FACILITIES INFORMATION SYSTEM (FIMS) "BLT 167", A 2" ALUMINUM CAP IN CONCRETE LOCATED ON AN ELECTRIC TRANSFORMER PAD AT THE SOUTHEAST CORNER OF WOODMEN ROAD AND MERIDIAN ROAD, WITH AN ELEVATION OF 6873.18 (NGVD 29).

LEGAL DESCRIPTION

THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOGETHER WITH THAT PORTION OF BLOCK 1, TOWN OF FALCON, LYING WITHIN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

EXCEPT THOSE PORTIONS CONVEYED TO WOODMEN ROAD METROPOLITAN DISTRICT BY WARRANTY DEED RECORDED APRIL 19, 2004 AT RECEPTION NO. 204062427 AND PERSONAL REPRESENTATIVE'S DEED RECORDED SEPTEMBER 7, 2007 AT RECEPTION NO. 207116129, EL PASO COUNTY, COLORADO RECORDS.

FLOODPLAIN STATEMENT

THE EFFECTIVE FLOODPLAIN ZONE A LIMITS ARE DEFINED ON THE FIRM FOR EL PASO COUNTY, COLORADO AND UNINCORPORATED AREAS, MAP NUMBER 8041C0575F, EFFECTIVE DATE MARCH 17, 1997. FEMA ISSUED PRELIMINARY FIRM MAP 08041C0553G DATED JULY 29, 2015 TO REFLECT LIMITS MODIFIED BY LOMR CASE NO. 12-08-0579P (FEBRUARY 28, 2013).

A CLOMR HAS BEEN SUBMITTED TO FEMA FOR THIS DEVELOPMENT (OCTOBER 17, 2016) WHICH WILL SIGNIFICANTLY MODIFY THE EFFECTIVE/PRELIMINARY FIRM FLOODPLAIN. APPROVAL OF THE CLOMR WILL RESULT IN THE REVISION AND CONVERSION OF THE APPROXIMATE ZONE A FLOODPLAIN TO ZONE AE WITH BASE FLOOD ELEVATIONS, IN A FEW DESIGNATED OPEN FLOW AREAS. THE MAJORITY OF THE FLOW WILL BE CONFINED WITHIN A PIPED STORM DRAIN SYSTEM.

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: SUMMER 2017-SUMMER 2018

AREAS

TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED: APPROXIMATELY 36.4 ACRES

RECEIVING WATERS

FALCON WATERSHED - UNNAMED TRIBUTARY TO UPPER BLACK SQUIRREL CREEK

SOILS

HYDROLOGIC TYPE A: BLAKELAND LOAMY SAND (NO. 8) AND BLAKELAND-FLUVAQUENTIC HAPLAQUOLIS (NO. 9)

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NOTE

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 DIRECTOR'S DISCRETION.

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 CRITERIA ESTABLISHED BY THE COUNTY FOR THE 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.

TIM D. MCCONNELL
P.E.# 33797

DATE

OWNER'S STATEMENT

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

STEVE MEIER

DATE

EL PASO COUNTY

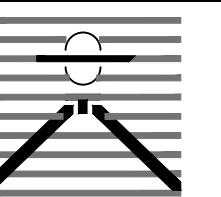
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY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

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

JENNIFER IRVINE, P.E.
COUNTY ENGINEER

DATE

PREPARED BY:



DREXEL, BARRELL & CO.
Engineers-Surveyors
3 SOUTH 7TH STREET
COLORADO SPGS, COLORADO 80905
CONTACT: TIM D. MCCONNELL, P.E.
(719)260-0887
BOULDER • COLORADO SPRINGS

CLIENT:

HUMMEL INVESTMENTS, LLC

8117 PRESTON ROAD, SUITE 120
DALLAS, TEXAS 75225

(214) 416-9820

OVERLOT GRADING, POND SR4 & UTILITY
CONSTRUCTION DRAWINGS FOR

FALCON
MARKETPLACE
FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: TDM
DRAWN BY: KGV
CHECKED BY: TDM
FILE NAME: 20988-EG-CVR

PREPARED UNDER MY DIRECT
SUPERVISION FOR AND ON BEHALF
OF DREXEL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

COVER SHEET

PROJECT NO. 20988-00CSV
DRAWING NO.

C1.0

SHEET: 1 OF 27

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 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 TO 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. DURING CONSTRUCTION THE SMWP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE 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 INSPECTIONS STAFF.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SMWP).
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SMWP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE 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.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SMWP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER 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. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM 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.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
- INDIVIDUALS 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 INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.), IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THIS PROPERTY IS SUBJECT TO THE FINDINGS, SUMMARY, AND CONCLUSIONS OF THE PRELIMINARY GEOTECHNICAL INVESTIGATION BY GROUND ENGINEERING, DATED AUGUST 25, 2015, WITH ADDENDA #1, DATED MARCH 17, 2017.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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 (SMWP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

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

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE EL PASO COUNTY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND REVISIONS THERETO, EXCEPT WHERE OTHERWISE NOTED ON THE PROJECT PLANS AND THE PROJECT SPECIAL PROVISIONS.
- PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT IN WRITING A DETAILED PLAN OF OPERATIONS AND SCHEDULE OF COMPLETION.
- THE CONTRACTOR SHALL PROVIDE EL PASO COUNTY AND THE 911 OPERATOR WITH THE NAME AND PHONE NUMBER OF THEIR REPRESENTATIVE TO BE CONTACTED DURING WORKING AND NON-WORKING HOURS AS NECESSARY.
- A QUALIFIED SUPERINTENDENT, WHO IS ACCEPTABLE TO THE OWNER, SHALL BE APPOINTED TO SUPERVISE THE WORK UNTIL COMPLETION. THE SUPERINTENDENT SHALL HAVE FULL AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR, AND ALL DIRECTIONS GIVEN TO THE SUPERINTENDENT SHALL BE CONSIDERED GIVEN TO THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS AT HIS OWN EXPENSE, TO COMPLETE THE CONSTRUCTION CONTAINED ON THESE DOCUMENTS AND SHALL COMPLY WITH ALL PERTINENT LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN AN "AS CONSTRUCTED" RECORD OF ALL ROADWAY AND UTILITY CONSTRUCTION AND SHALL FURNISH A COPY OF SAME TO EL PASO COUNTY AND THE ENGINEER UPON COMPLETION OF CONSTRUCTION.
- THE OWNER WILL PERFORM QUALITY ASSURANCE TESTING OF SUBGRADE AND MATERIALS. QUALITY CONTROL TESTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SITE PREPARATION

- CONTRACTOR SHALL FIELD VERIFY PROFILE GRADES AND ADJUST GRADES WHERE DIRECTED BY THE FIELD ENGINEER.
- IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE FIELD ENGINEER IMMEDIATELY SO THAT APPROPRIATE ACTION CAN BE TAKEN BY THE OWNER.
- PRIOR TO STARTING CONSTRUCTION, PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM EL PASO COUNTY PERSONNEL. MAINTAIN ONE LANE OF TRAFFIC MOVEMENT IN EACH DIRECTION DURING CONSTRUCTION UNLESS OTHER ARRANGEMENTS (ONE WAY, DETOUR, ETC.) ARE MADE WITH EL PASO COUNTY DURING TRAFFIC CONTROL PLAN PREPARATION.
- REMOVAL OF ALL PERMANENT SIGNAGE FROM WITHIN THE AREA OF WORK AND DELIVERY TO EL PASO COUNTY'S MAINTENANCE YARD AT 3275 AKERS DRIVE, COLORADO SPRINGS, COLORADO. ASPHALT REMOVAL SHALL INCLUDE SAW CUTTING, REMOVAL, AND DELIVERY OF UNUSED REMOVED ASPHALT AND MILLINGS TO EL PASO COUNTY DISPATCH 719-520-6891 TO COORDINATE DELIVERY OF THE MATERIAL. DELIVERY WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS OR PAVEMENT MARKINGS DURING PROJECT WITHOUT SIGNED AUTHORIZATION OF THE EL PASO COUNTY REPRESENTATIVE.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH COLORADO DEPARTMENT OF TRANSPORTATION M & S STANDARD 630, AND THE MUTCD. ALL ACCESSES, BOTH PRIVATE AND COMMERCIAL ARE TO BE MAINTAINED AND REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN TO COUNTY BEFORE BEGINNING WORK AND PRIOR TO BEGINNING A NEW PHASE OF CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EL PASO COUNTY AND OTHERS MONUMENTS, INCLUDING PROPERTY CORNERS WITHIN THE PROJECT LIMITS. ANY MONUMENT WHICH IS DISTURBED OR DESTROYED BY THE CONTRACTOR WILL BE RESTORED IN ACCORDANCE WITH CDOT STANDARDS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL INSTALL NEW MONUMENTS AS INDICATED ON THE ROW PLANS. ALL MONUMENTS ARE PROPERTY CORNERS WILL BE ADJUSTED TO FINAL GRADE PER CDOT STANDARDS.
- THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING.
- EXISTING TREES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. TREES SHALL NOT BE REMOVED UNLESS AUTHORIZED BY THE OWNER/FIELD ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DISPOSING OF ALL REMOVALS OFF THE PROJECT SITE. COST FOR DISPOSAL OF ALL REMOVED ITEMS SHALL BE INCLUDED IN THE WORK.

UTILITY

- THE SIZE AND LOCATION OF ALL EXISTING UTILITIES AS KNOWN TO THE ENGINEER HAVE BEEN NOTED ON THE PLANS FOR INFORMATION AND GUIDANCE OF THE CONTRACTOR. UTILITY LOCATIONS ARE ONLY APPROXIMATE AS PROVIDED BY THE VARIOUS UTILITY COMPANIES. ALL UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES OR VARIATION IN UTILITY LOCATION FROM THAT SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE FIELD ENGINEER AND RESOLVED PRIOR TO BEGINNING CONSTRUCTION IN ANY AREA. UTILITY LOCATIONS CAN BE COORDINATED THROUGH CENTRAL LOCATING AT 1-800-022-1987. THE CONTRACTOR SHALL PROTECT ALL EXISTING AND NEW UTILITIES IN THE VICINITY OF HIS WORK. IF ANY DAMAGE OCCURS TO THESE UTILITIES DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR ANY UTILITIES DISRUPTED BY THE CONSTRUCTION AND ALL EXPENSES INCURRED FOR REPAIR.
- UTILITY RELOCATIONS SHALL BE IDENTIFIED, DESIGNED AND PERFORMED BY THE UTILITY OWNER, OR THEIR DESIGNATED CONTRACTOR. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY PROVIDERS FOR UTILITY RELOCATION AND REPLACEMENT.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 3 WEEKS IN ADVANCE OF THE ACTUAL STARTING DATE OF CONSTRUCTION. THE CONTRACTOR SHALL USE CAUTION WORKING OVER AND AROUND ALL UTILITY LINES. UTILITY INFORMATION AS SHOWN ON PLANS IS PLOTTED FROM THE BEST AVAILABLE INFORMATION, AND THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION. UTILITIES HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL OTHER NECESSARY UTILITIES FOR LOCATIONS PRIOR TO ANY DIGGING. CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATING ANY UTILITY RELOCATIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF OTHER WORK.
- THE CONTRACTOR SHALL ADJUST ANY VALVES OR MANHOLES OF EXISTING UTILITIES NOT TO BE RELOCATED TO THE PROPOSED GRADE. THE COST SHALL BE INCLUDED IN THE PRICE OF THE WORK.
- A REPRESENTATIVE OF EL PASO COUNTY IS REQUIRED TO BE ON SITE DURING EXCAVATION AND CONSTRUCTION AROUND UNDERGROUND FACILITIES. IT IS THE CONSTRUCTION CONTRACTOR'S RESPONSIBILITY TO NOTIFY EL PASO COUNTY 48 HOURS PRIOR TO CONSTRUCTION.
- ALL PIPES INSTALLED ON THE PROJECT SHALL BE PAID FOR "COMPLETE IN PLACE". TRENCH EXCAVATION, BEDDING, BACKFILL, ECT. WILL NOT BE PAID FOR SEPARATELY.

EARTHWORK

- COMPACTION OF SUBGRADE SHALL MEET THE REQUIREMENT OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-99. SUB-GRADE SHALL BE PROOF ROLLED IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- COMPACTION OF BASE FOR CUTS AND FILLS AND DISPOSAL OF UNUSABLE OR EXCESS MATERIAL WILL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION PAY ITEM AND SHALL NOT BE PAID FOR SEPARATELY.
- PRIOR TO PLACING NEW PAVEMENT SECTIONS, THE SUBGRADE SHALL BE RECONDITIONED IN ACCORDANCE WITH SECTION 306 OF THE CDOT STANDARD SPECIFICATIONS. THE RECONDITIONED SURFACE SHALL BE PROOF-ROLLED WITH A HEAVY LOADED PNEUMATIC-TIRED VEHICLE HAVING A SINGLE AXLE WEIGHT OF AT LEAST 18 KIPS. AREAS WHICH DEFORM UNDER HEAVY WHEEL LOADS SHALL BE REMOVED AND REPLACED TO ACHIEVE A STABLE SUBGRADE PRIOR TO PAVING. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
 ----- FULL DEPTH OF ALL EMBANKMENTS
 ----- BASE OF CUTS AND FILL - 1.00 FOOT
- GROUNDWATER MITIGATION MEASURES FOR POND SR4 WILL CONSIST OF INSTALLATION OF A 12-INCH THICK IMPERVIOUS CLAY LINER, TO RESOLVE THE POTENTIAL FOR GROUNDWATER SEEPAGE. LINER SPECIFICATIONS WILL BE BASED ON THE COLORADO DEPARTMENT OF NATURAL RESOURCES SPECIFICATIONS.

PREPARED BY:



DREXEL, BARRELL & CO.
 Engineers-Surveyors
 3 SOUTH 7TH STREET
 COLORADO SPGS, COLORADO 80905
 CONTACT: TIM D. MCCONNELL, P.E.
 (719)260-0887
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CLIENT:

HUMMEL INVESTMENTS, LLC

8117 PRESTON ROAD, SUITE 120
 DALLAS, TEXAS 75225
 (214) 416-9820

OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY:	TDM
DRAWN BY:	GES
CHECKED BY:	TDM
FILE NAME:	20988-EG-NTS

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

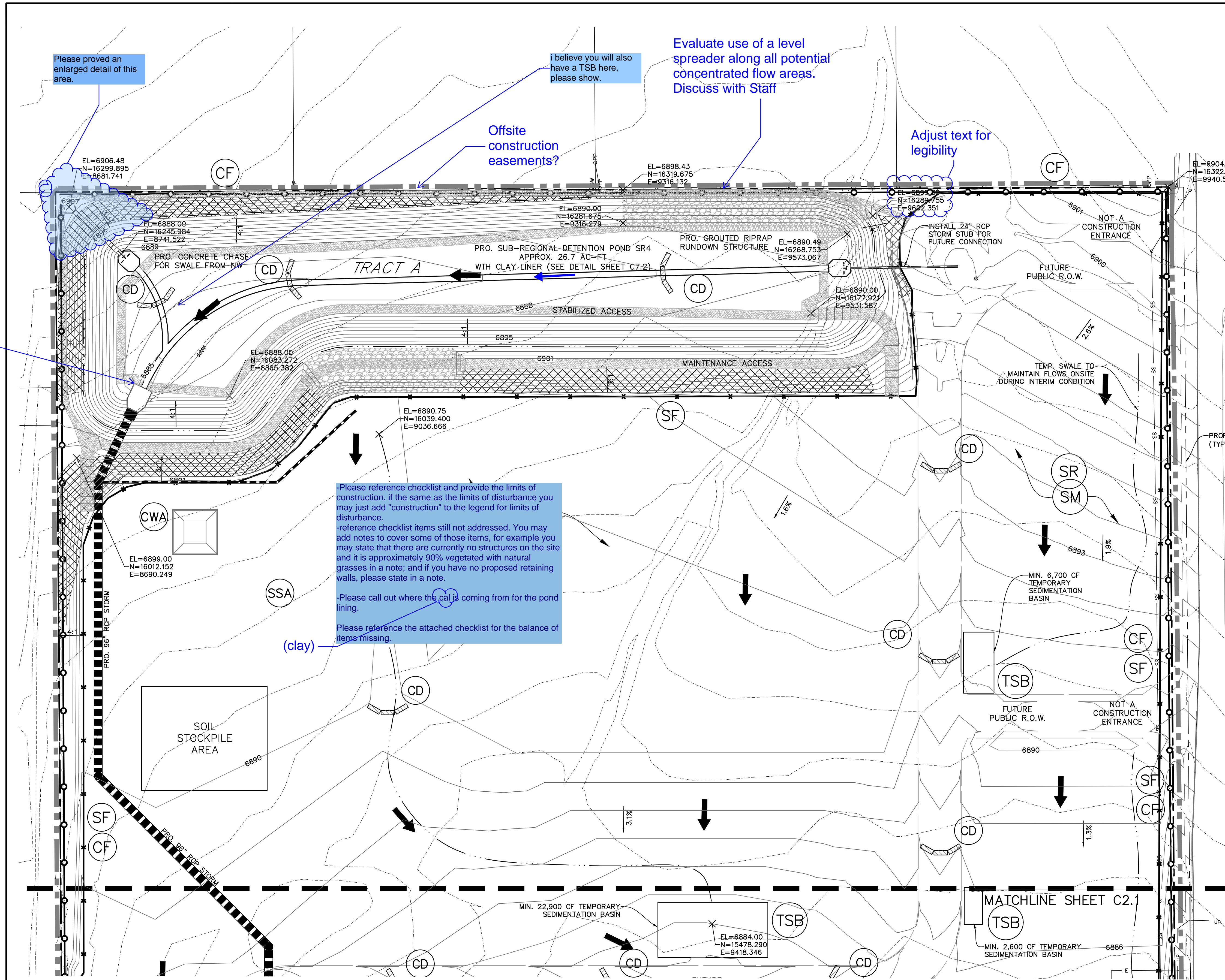
DRAWING SCALE:
 HORIZONTAL: N/A
 VERTICAL: N/A

NOTES

PROJECT NO. 20988-00CSV
 DRAWING NO.

C1.1

SHEET: 2 OF 27



Please provide an enlarged detail of this area.

I believe you will also have a TSB here, please show.

Evaluate use of a level spreader along all potential concentrated flow areas. Discuss with Staff

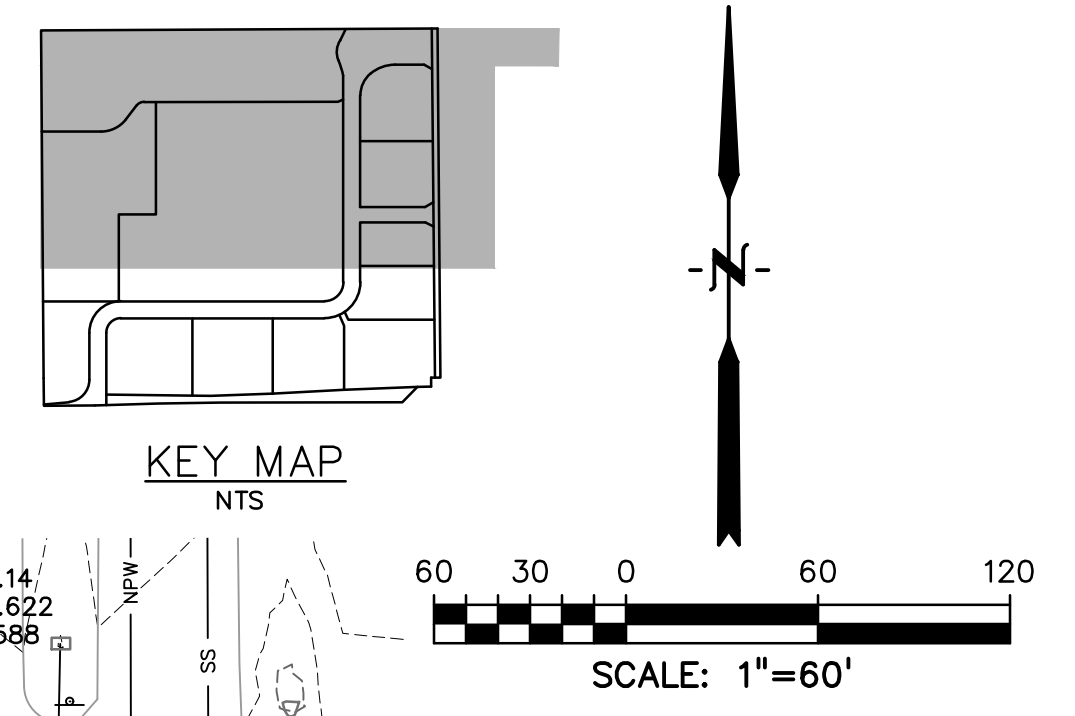
Offsite construction easements?

Adjust text for legibility

Provide control point

Please reference checklist and provide the limits of construction, if the same as the limits of disturbance you may just add "construction" to the legend for limits of disturbance.
 -reference checklist items still not addressed. You may add notes to cover some of those items, for example you may state that there are currently no structures on the site and it is approximately 90% vegetated with natural grasses in a note; and if you have no proposed retaining walls, please state in a note.
 -Please call out where the clay is coming from for the pond lining.
 Please reference the attached checklist for the balance of items missing.

(clay)



EASTONVILLE ROAD
 (80' PUBLIC R.O.W.)

LEGEND

PROPERTY LINE	---
PROPOSED INTERMEDIATE CONTOUR
PROPOSED INDEX CONTOUR 6245
EX. INTERMEDIATE CONTOUR
EX. INDEX CONTOUR 6245
LIMITS OF DISTURBANCE	---
PROPOSED STORM SEWER	---
PROPOSED STORM INLET	■
EX. OVERHEAD ELECTRIC	—OE—
EX. SANITARY SEWER	—SS—
EX. PETROLEUM	—UP—
EX. GAS	—G—
EX. RAW WATER	—RW—
EX. WATER	—W—
EX. STORM SEWER	—ST—
TEMPORARY SWALE	---
DIRECTION OF FLOW	←
SILT FENCE SEE DETAIL 3/C4.2	○SF
CONSTRUCTION FENCE	○CF
VEHICLE TRACKING CONTROL SEE DETAIL 5/C4.2	▨VTC
EROSION CONTROL BLANKET (FOR AREAS WITH SLOPE > 3:1)	▨ECB
STRAW BALE CHECK DAM	○CD
CONCRETE WASHOUT AREA	□CWA
SURFACE ROUGHENING	○SR
TEMPORARY SEEDING & MULCHING	○SM
STABILIZED STAGING AREA	○SSA
TEMPORARY SEDIMENT BASIN	○TSB

NOTE
 1. GRADING IS NOT PERMITTED WITHIN THE COUNTY RIGHT-OF-WAY DURING THE INTERIM CONDITION, EXCEPT FOR THE OPEN CHANNEL ALONG E. WOODMEN RD.

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OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: TDM
DRAWN BY: KGV
CHECKED BY: TDM
FILE NAME:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

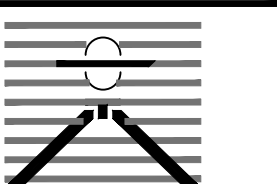
DRAWING SCALE:
 HORIZONTAL: 1"=60'
 VERTICAL: N/A

INTERIM GRADING & EROSION CONTROL PLAN

PROJECT NO. 20988-00CSCV
DRAWING NO.

C2.0

SHEET: 3 OF 27

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OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
**FALCON
 MARKETPLACE**
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: TDM
 DRAWN BY: KGV
 CHECKED BY: TDM
 FILE NAME:

PREPARED UNDER MY DIRECT
 SUPERVISION FOR AND ON BEHALF
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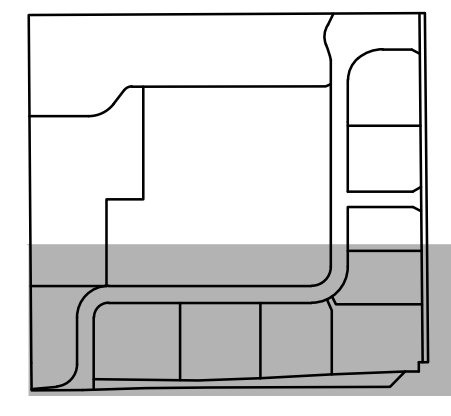
DRAWING SCALE:
 HORIZONTAL: 1"=60'
 VERTICAL: N/A

**INTERIM GRADING
 & EROSION
 CONTROL PLAN**

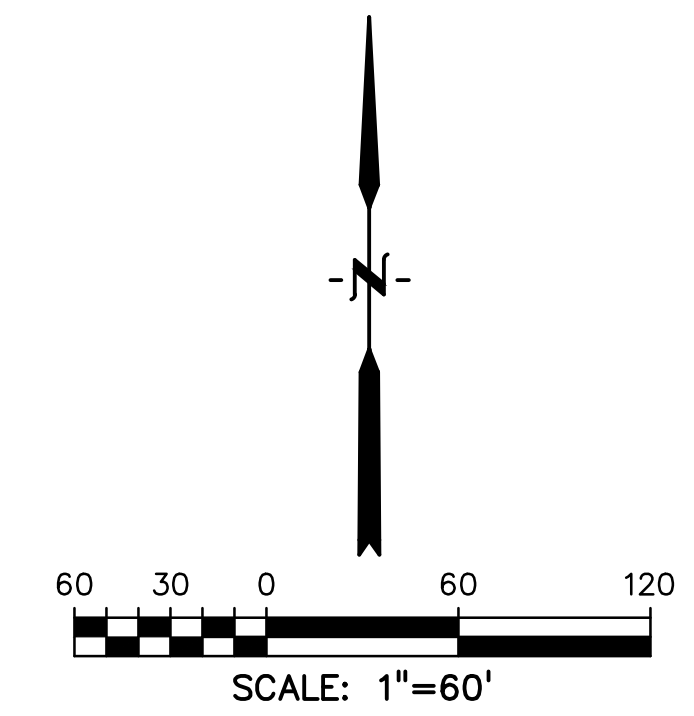
PROJECT NO. 20988-00CSCV
 DRAWING NO.

C2.1

SHEET: # OF 27



KEY MAP
NTS

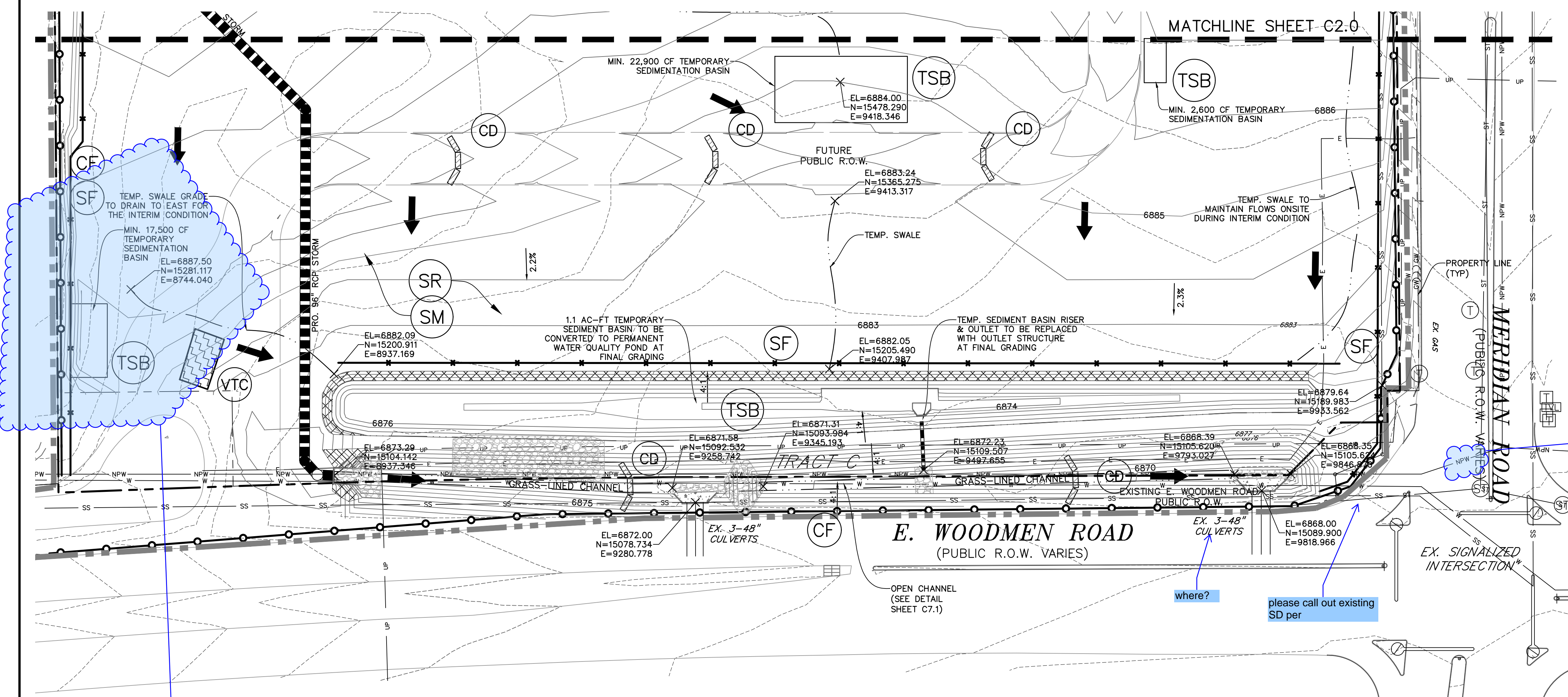


LEGEND

- PROPERTY LINE.....
- PROPOSED INTERMEDIATE CONTOUR.....
- PROPOSED INDEX CONTOUR..... 6245
- EX. INTERMEDIATE CONTOUR.....
- EX. INDEX CONTOUR..... 6245
- LIMITS OF DISTURBANCE.....
- PROPOSED STORM SEWER.....
- PROPOSED STORM INLET.....
- EX. OVERHEAD ELECTRIC..... OE
- EX. SANITARY SEWER..... SS
- EX. PETROLEUM..... UP
- EX. GAS..... G
- EX. RAW WATER..... RW
- EX. WATER..... W
- EX. STORM SEWER..... ST
- TEMPORARY SWALE.....
- DIRECTION OF FLOW.....
- SILT FENCE..... SF
- CONSTRUCTION FENCE..... CF
- VEHICLE TRACKING CONTROL..... VTC
- EROSION CONTROL BLANKET (FOR AREAS WITH SLOPE > 3:1)..... ECB
- STRAW BALE CHECK DAM..... CD
- CONCRETE WASHOUT AREA..... CWA
- SURFACE ROUGHENING..... SR
- TEMPORARY SEEDING & MULCHING..... SM
- STABILIZED STAGING AREA..... SSA
- TEMPORARY SEDIMENT BASIN..... TSB

NOTE

- GRADING IS NOT PERMITTED WITHIN THE COUNTY RIGHT-OF-WAY DURING THE INTERIM CONDITION, EXCEPT FOR THE OPEN CHANNEL ALONG E. WOODMEN RD.



Provide clear limits of disturbance and limits of construction site.

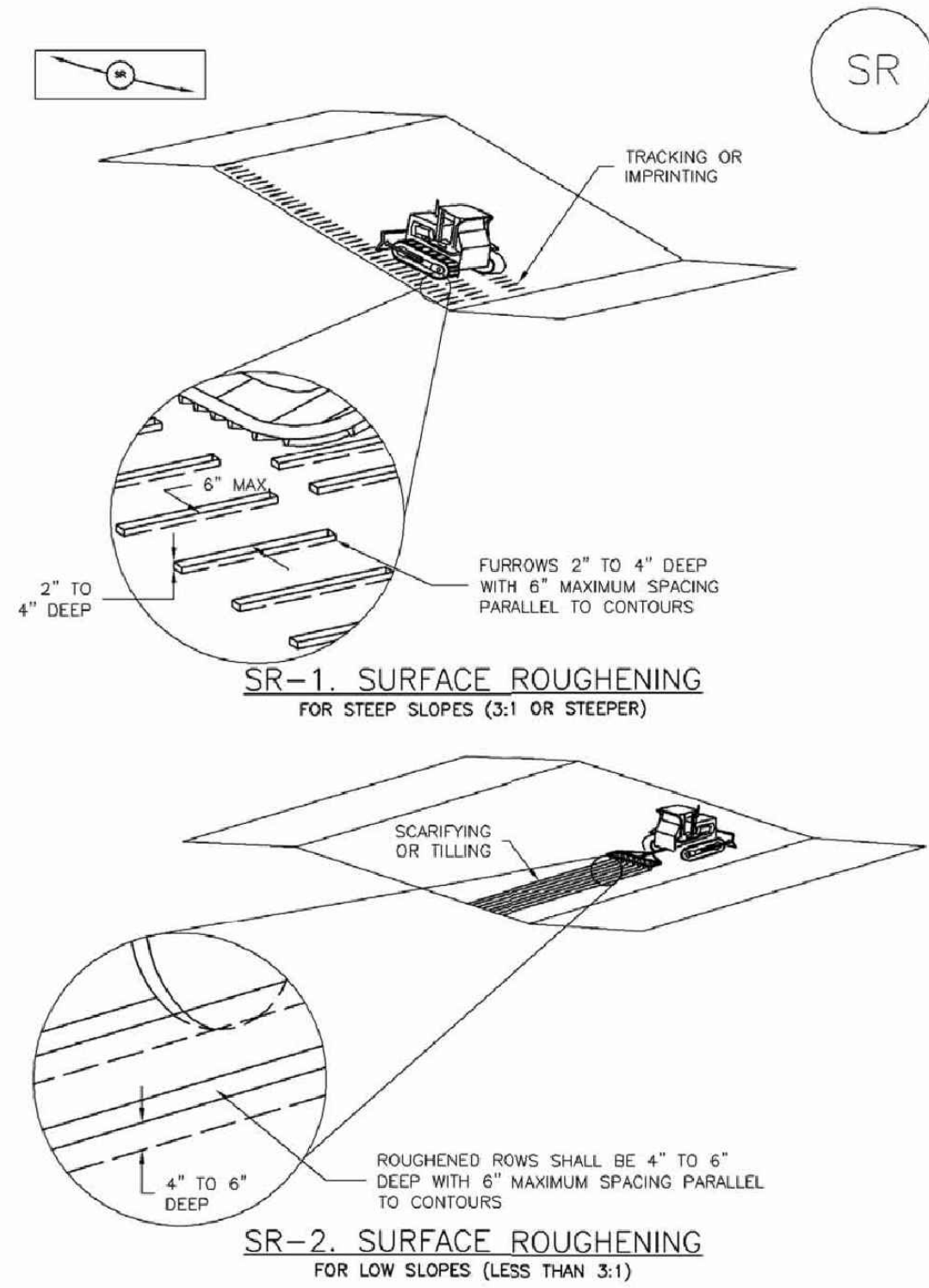
the FDR shows a WO pond 3 at this location. Please show here. (per sheet 7.0)

where?
 please call out existing SD per

please correct

Surface Roughening (SR)

EC-1



November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

Seeding Dates	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
	Warm	Cool	Warm	Cool
January 1-March 15			✓	✓
March 16-April 30	4	1,2,3	✓	✓
May 1-May 15	4		✓	
May 16-June 30	4,5,6,7			
July 1-July 15	5,6,7			
July 16-August 31				
September 1-September 30		8,9,10,11		
October 1-December 31			✓	✓

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

TS/PS-6 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 November 2010

Temporary and Permanent Seeding (TS/PS)

EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species* (Common name)	Growth Season*	Pounds of Pure Live Seed (PLS)/acre ^b	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5 - 10	½ - ¾
7. Sorghum	Warm	5 - 10	½ - ¾
8. Winter wheat	Cool	20 - 35	1 - 2
9. Winter barley	Cool	20 - 35	1 - 2
10. Winter rye	Cool	20 - 35	1 - 2
11. Triticale	Cool	25 - 40	1 - 2

* Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

^b See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

^c Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

City of Colorado Springs Stormwater Quality

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

MULCHING NOTES

INSTALLATION REQUIREMENTS

1. ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDING AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.
2. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.
3. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.
4. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
5. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKIFIER.
6. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

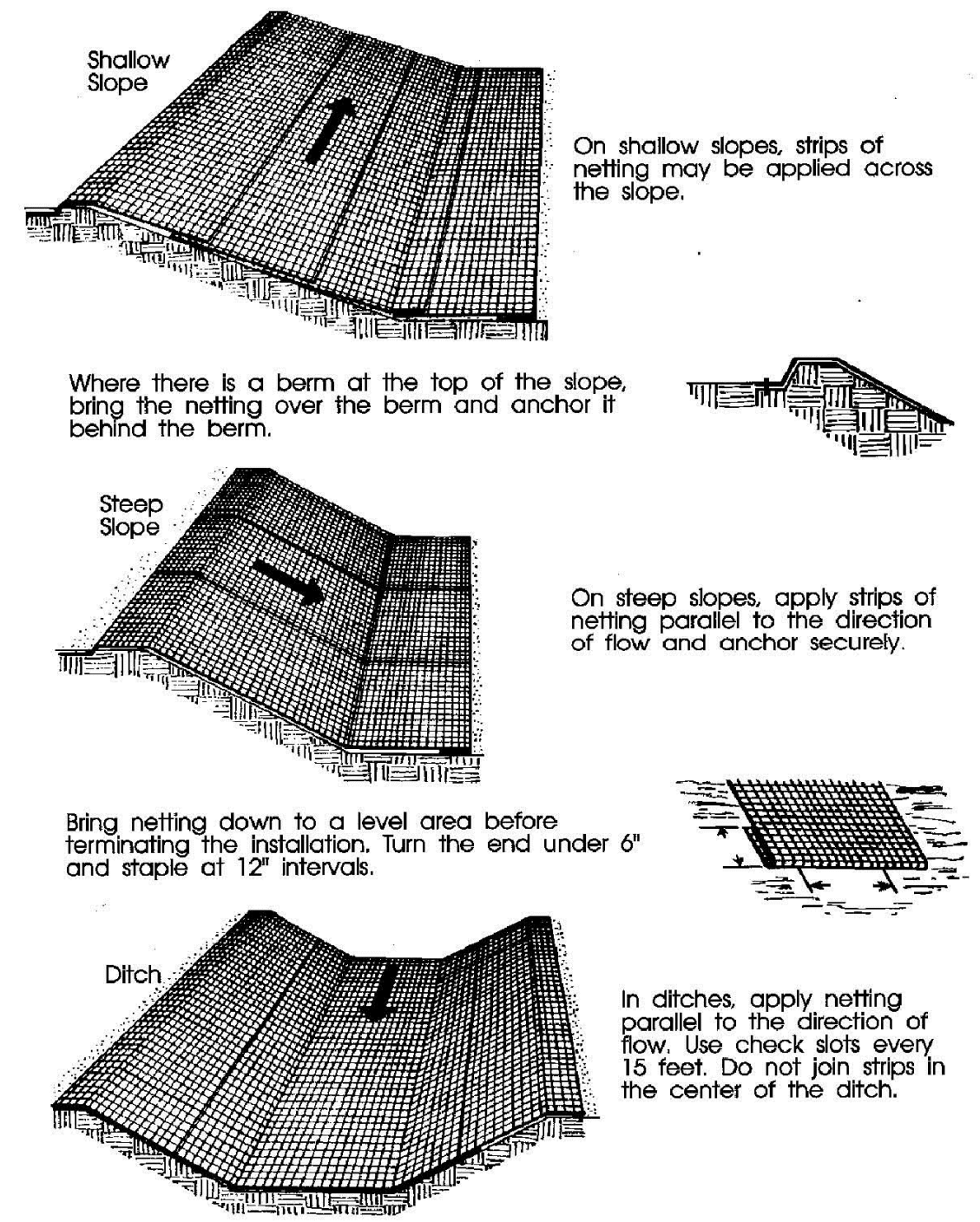
MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEDED.

City of Colorado Springs Stormwater Quality

Figure MU-1
Mulching
Construction Detail and Maintenance Requirements

3-30



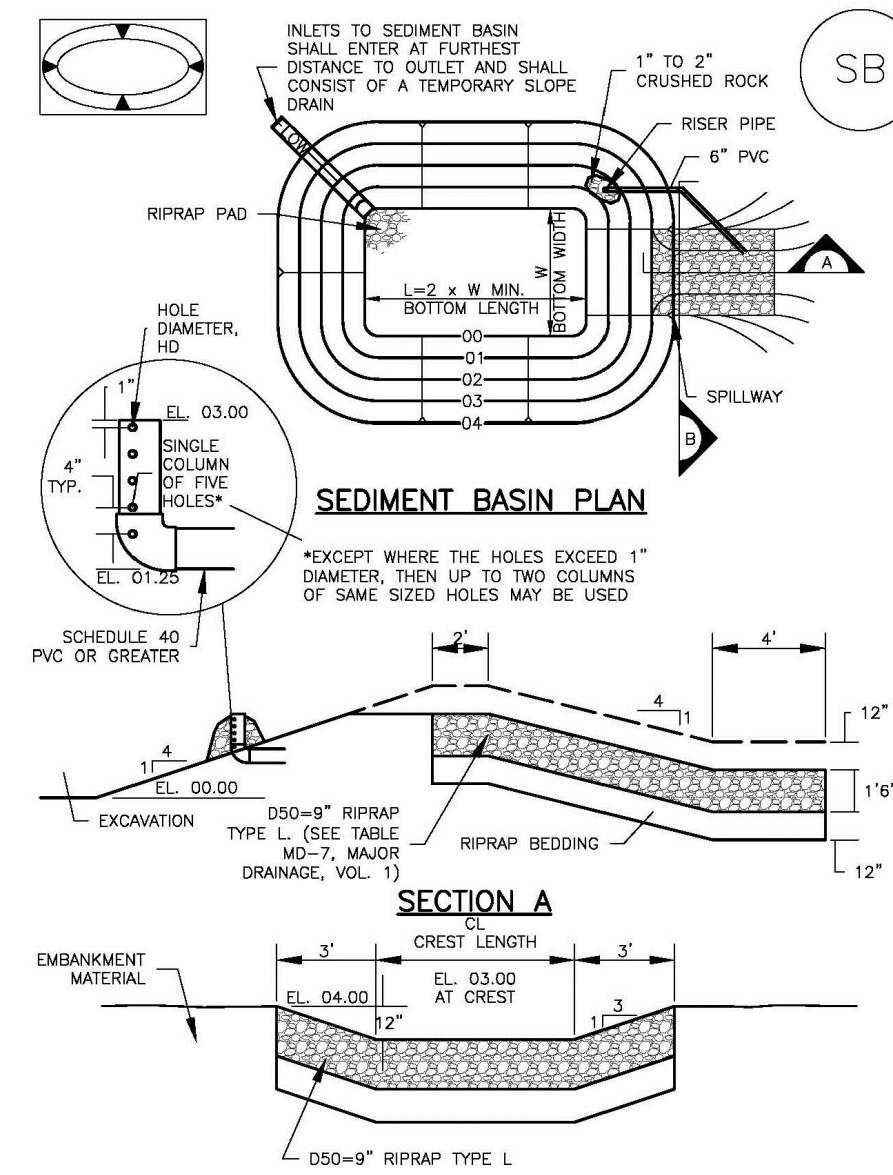
City of Colorado Springs Storm Water Quality

Figure ECB-1
Erosion Control Blanket
Application Examples

ECB

Sediment Basin (SB)

SC-7



August 2013 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

RECOMMENDED PERMANENT SEEDING MIX.

APPLY AT 25 POUNDS OF PURE LIVE SEED (PLS) PER ACRE AND A PLANTING DEPTH OF 1 TO 2 INCHES.

SPECIES - VARIETY	LOT #	% OF MIX	PURITY %	GERM %	ORGN
PUBESCENT WHEATGRASS, LUNA	BG3266-9	25.00%	94.81%	91.00%	WY
INTERMEDIATE WHEATGRASS, RUSH	BG3237-8	20.00%	98.97%	95.00%	WY
SMOOTH BROME, LINCOLN	YYY-3058	20.00%	94.72%	85.00%	KS
TETRAPLOID PER RYE, FULL THROTTLE	L145-8-P23	15.00%	96.77%	90.00%	OR
ORCHARDGRASS, PROFILE	B1-9-54	15.00%	94.42%	96.00%	OR
BLUEBUNCH WHEATGRASS, SECAR	BG3248-9	5.00%	98.79%	91.00%	WY
		100.00%			

SILT FENCE NOTES

1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #8 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG. THE WIRES OR HOE RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.
6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

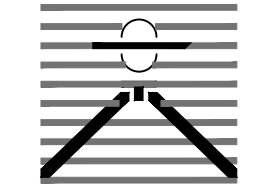
- #### MAINTENANCE REQUIREMENTS
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL. AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
 2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
 3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality

Figure SF-2
Silt Fence
Construction Detail and Maintenance Requirements

3-38

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CHECKED BY: TDM
FILE NAME:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

EROSION CONTROL DETAILS

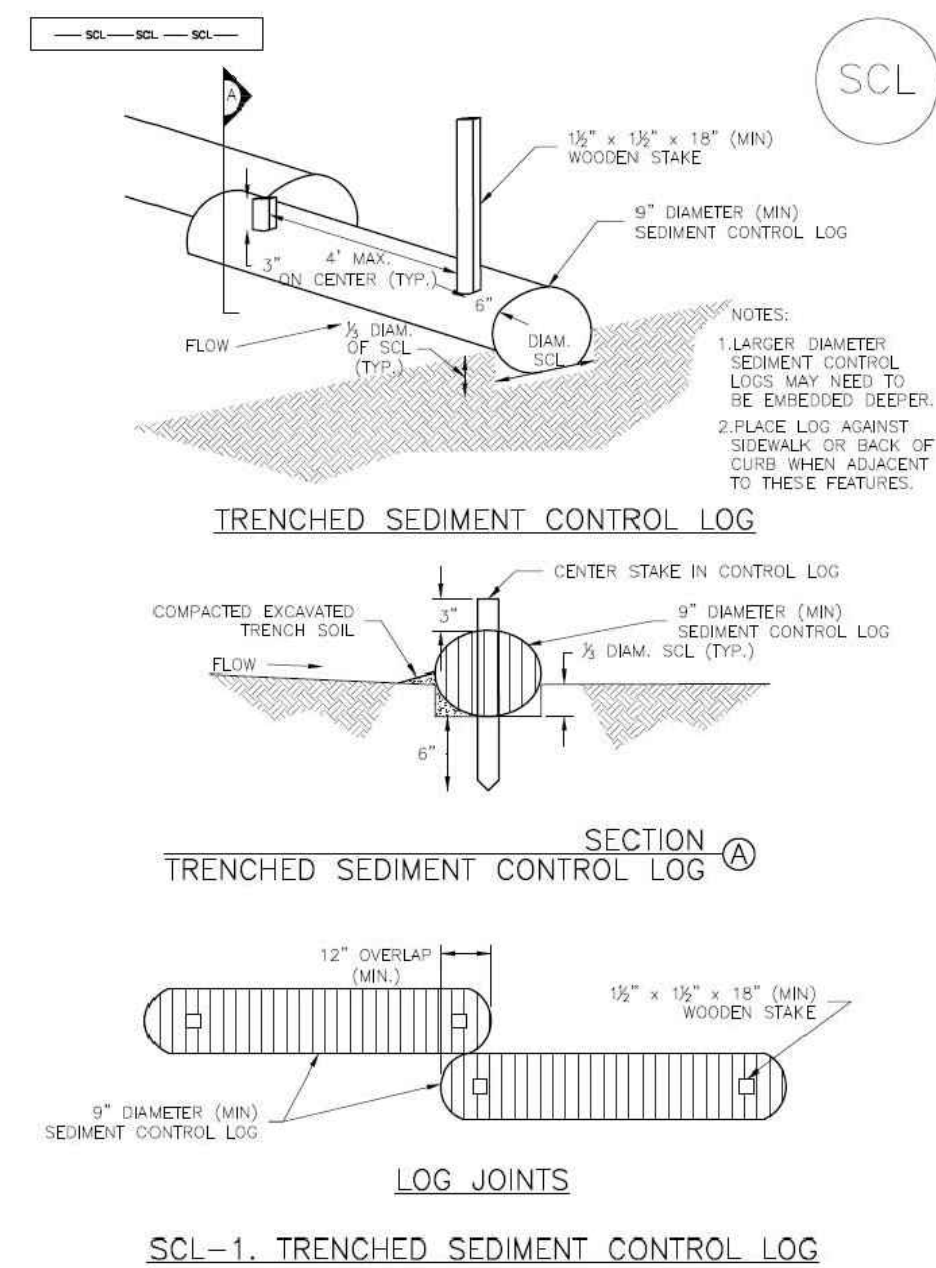
PROJECT NO. 20988--00CSCV
DRAWING NO.

C2.2

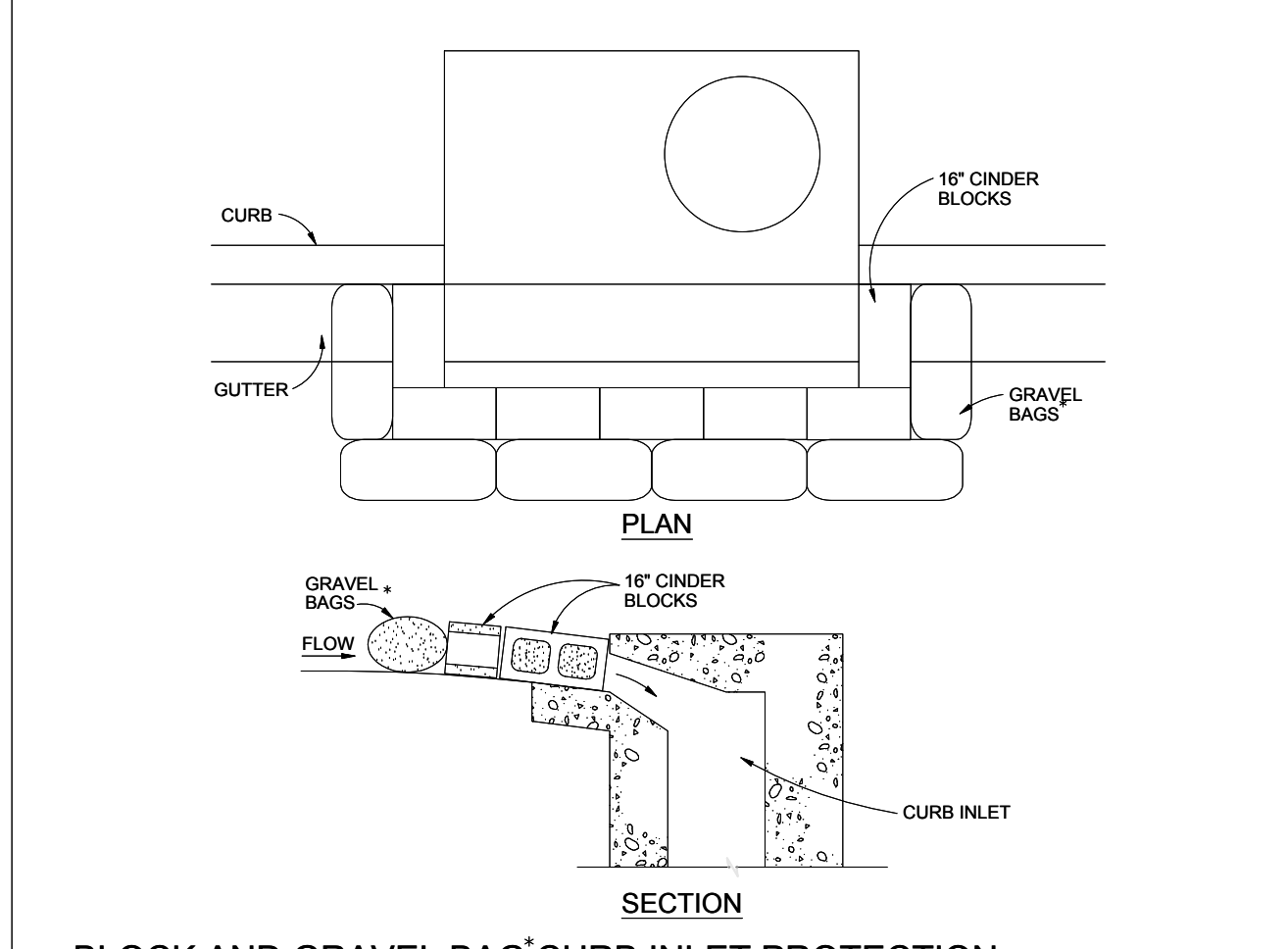
SHEET: 5 OF 27

EL PASO COUNTY FILE # SP-17-001

Sediment Control Log (SCL) SC-2



November 2015 Urban Drainage and Flood Control District, Urban Storm Drainage Criteria Manual Volume 3 SCL-3



BLOCK AND GRAVEL BAG CURB INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

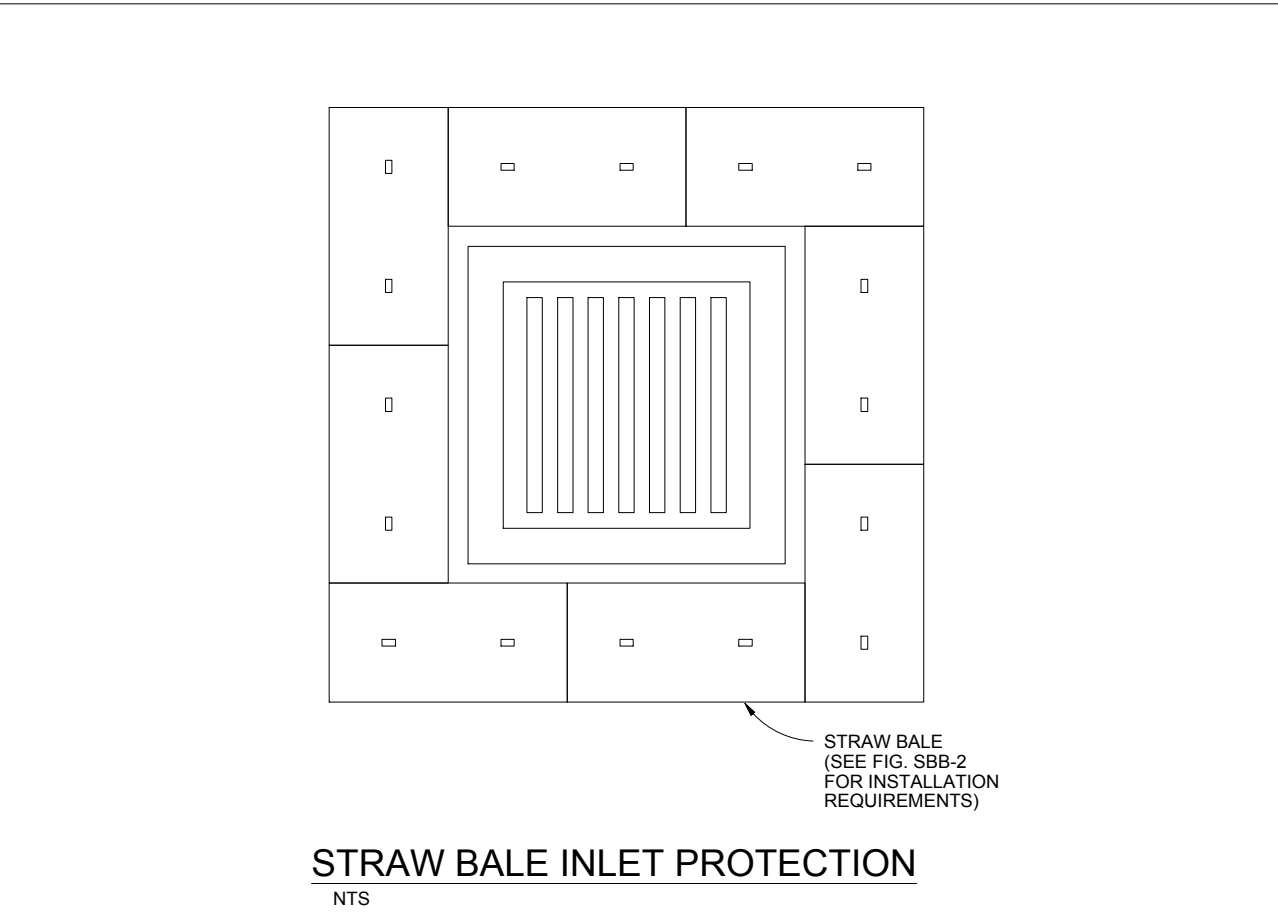
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
2. CONCRETE BLOCKS ARE TO BE LAID AROUND THE INLET IN A SINGLE ROW ON THEIR SIDES, ABUTTING ONE ANOTHER WITH THE OPEN ENDS OF THE BLOCK FACING OUTWARD.
3. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
4. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
5. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.

City of Colorado Springs Stormwater Quality **IP** Figure IP-3 Block & Gravel Bag Curb Inlet Protection Construction Detail and Maintenance Requirements 3-27



STRAW BALE INLET PROTECTION NOTES

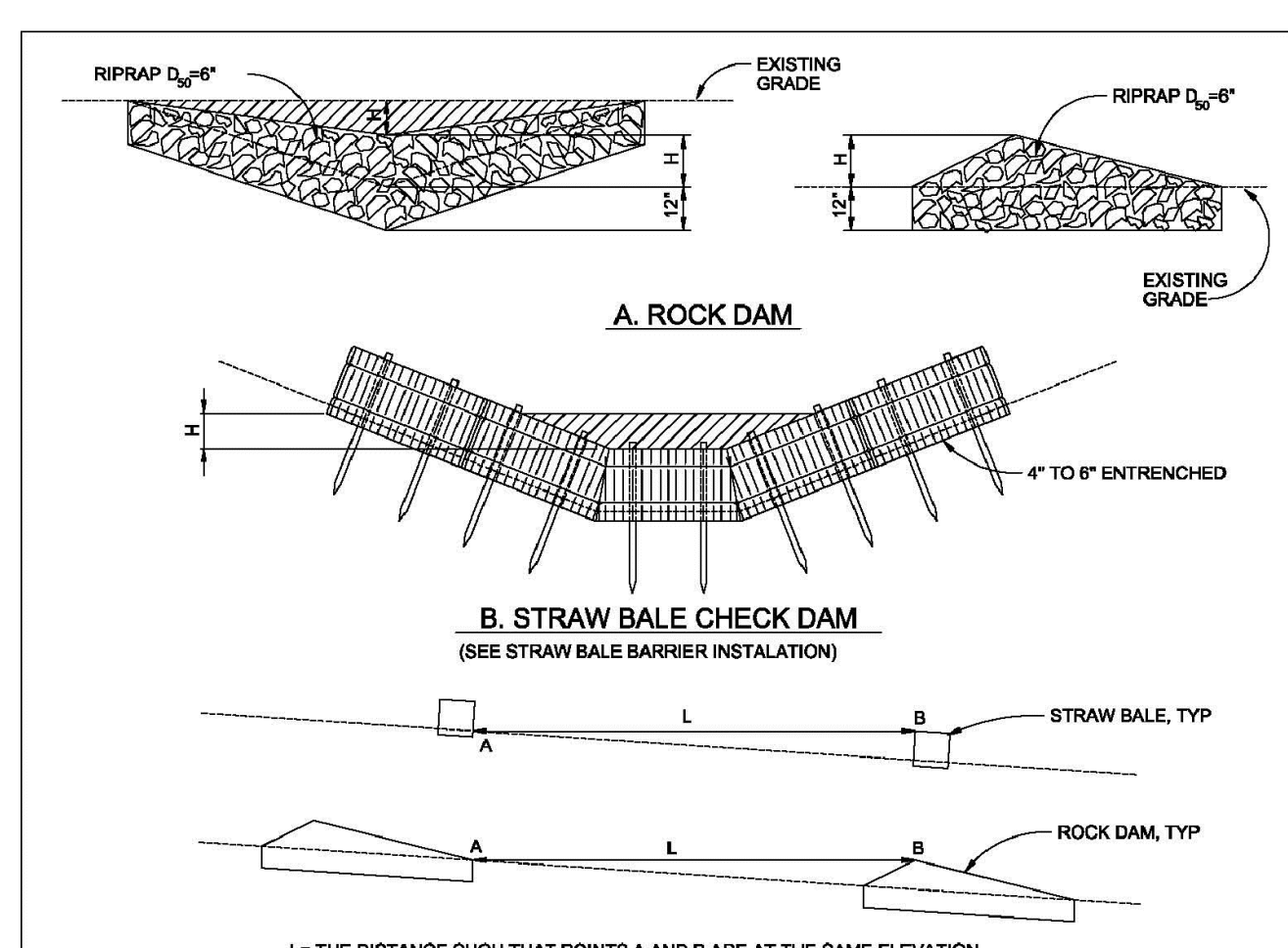
INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
2. BALES ARE TO BE PLACED IN A SINGLE ROW AROUND THE INLET WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
3. SEE STRAW BALE BARRIER FIGURE SBB-2 FOR INSTALLATION REQUIREMENTS.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT STRAW BALE INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALES WHEN IT ACCUMULATES TO APPROXIMATELY 1/3 THE HEIGHT OF THE BARRIER.
4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality **IP** Figure IP-2 Straw Bale Inlet Protection Construction Detail and Maintenance Requirements 3-26



INSTALLATION REQUIREMENTS

1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
2. THE 1/2" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
4. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
5. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

City of Colorado Springs Stormwater Quality **IP** Figure CD-1 Check Dam Construction Detail and Maintenance Requirements 3-20

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OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	TDM
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

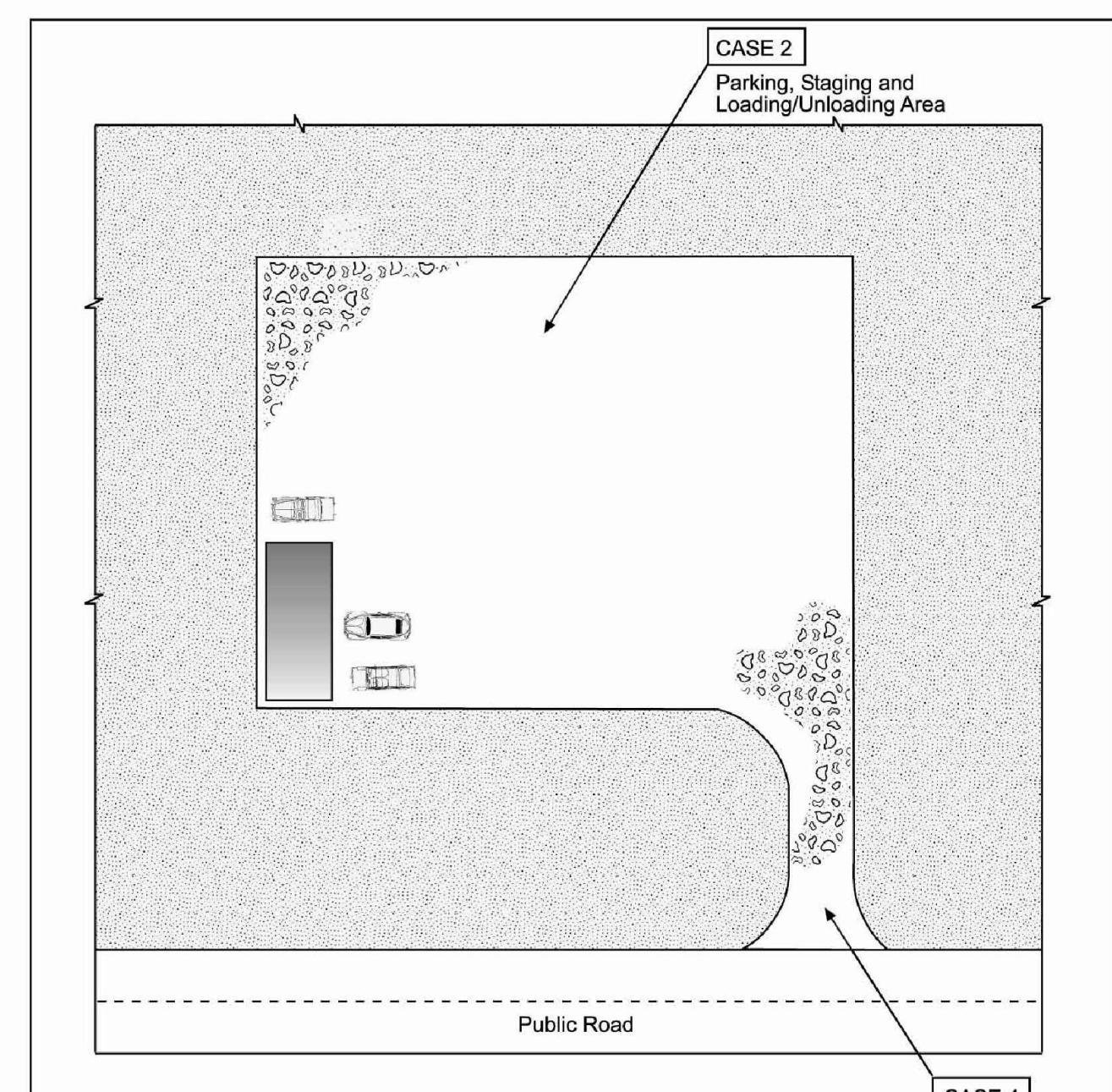
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 VERTICAL: N/A

EROSION CONTROL DETAILS

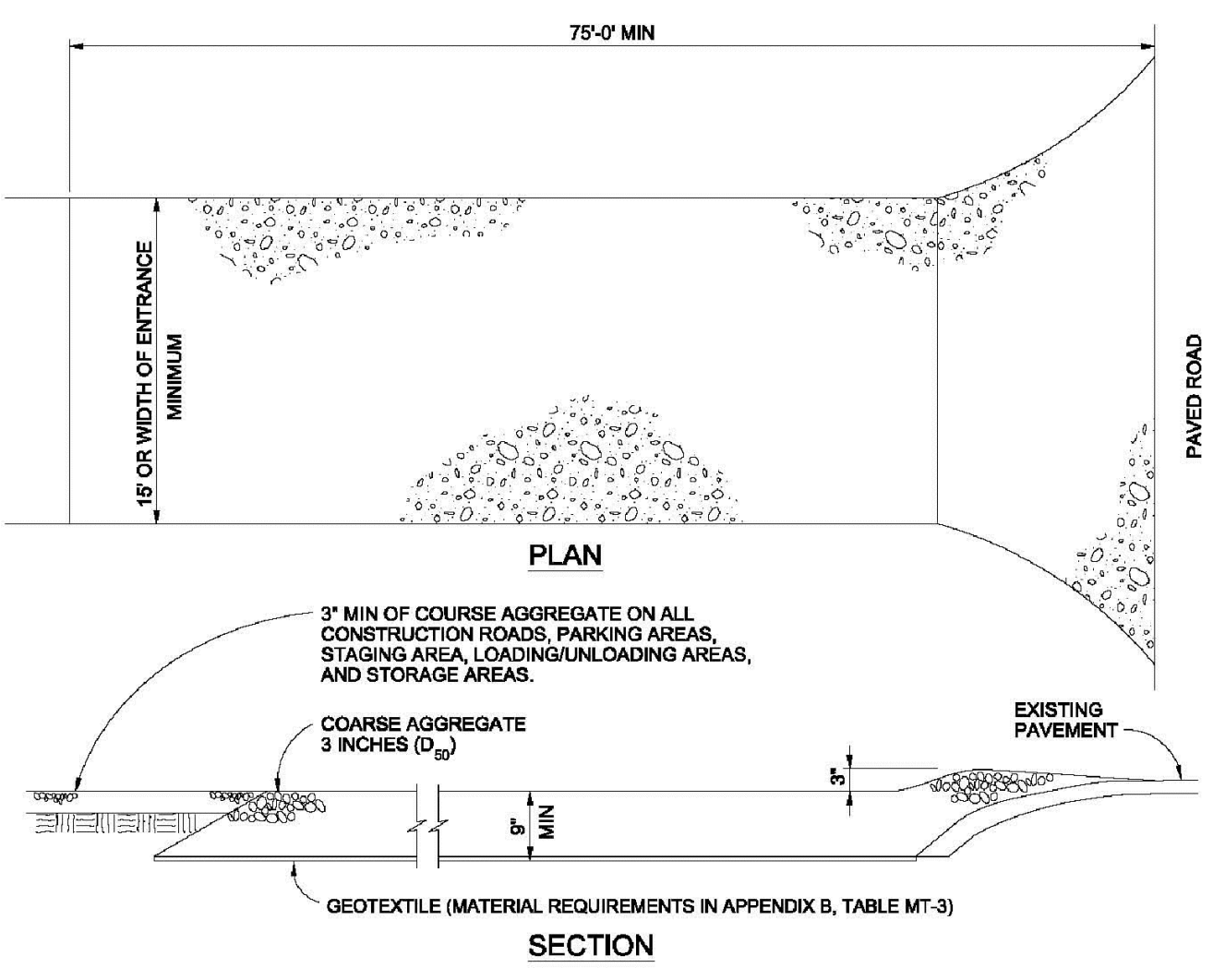
PROJECT NO. 20988-00CSCV
 DRAWING NO.

C2.3

SHEET: 6 OF 27

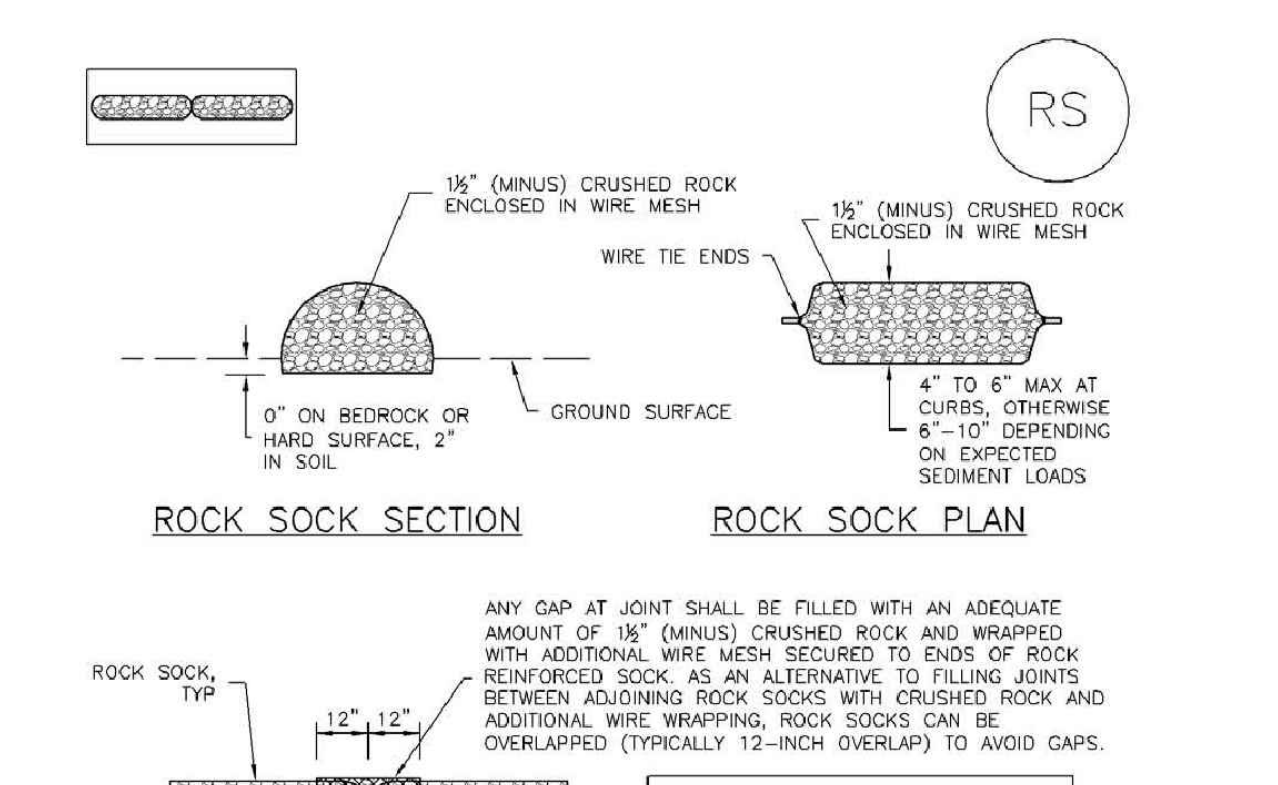


City of Colorado Springs Storm Water Quality **IP** Figure VT-1 Vehicle Tracking Application Examples 3-53



City of Colorado Springs Stormwater Quality **IP** Figure VT-2 Vehicle Tracking Application Examples 3-53

SC-5 Rock Sock (RS)



GRADATION TABLE

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
NO. 4	100
1/2"	80 - 100
3/8"	20 - 35
3/4"	0 - 15
1"	0 - 5

ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 3/8". RECOMMENDED MINIMUM ROLL WIDTH OF 48".
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

City of Colorado Springs Stormwater Quality **IP** Figure RS-1 ROCK SOCK PERIMETER CONTROL 3-27

SC-5 Rock Sock (RS)

ROCK SOCK 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 SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENT IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS. HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

City of Colorado Springs Stormwater Quality **IP** Figure RS-1 ROCK SOCK PERIMETER CONTROL 3-27

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OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
**FALCON
 MARKETPLACE**
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

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 DRAWN BY: KGV
 CHECKED BY: TDM
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DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

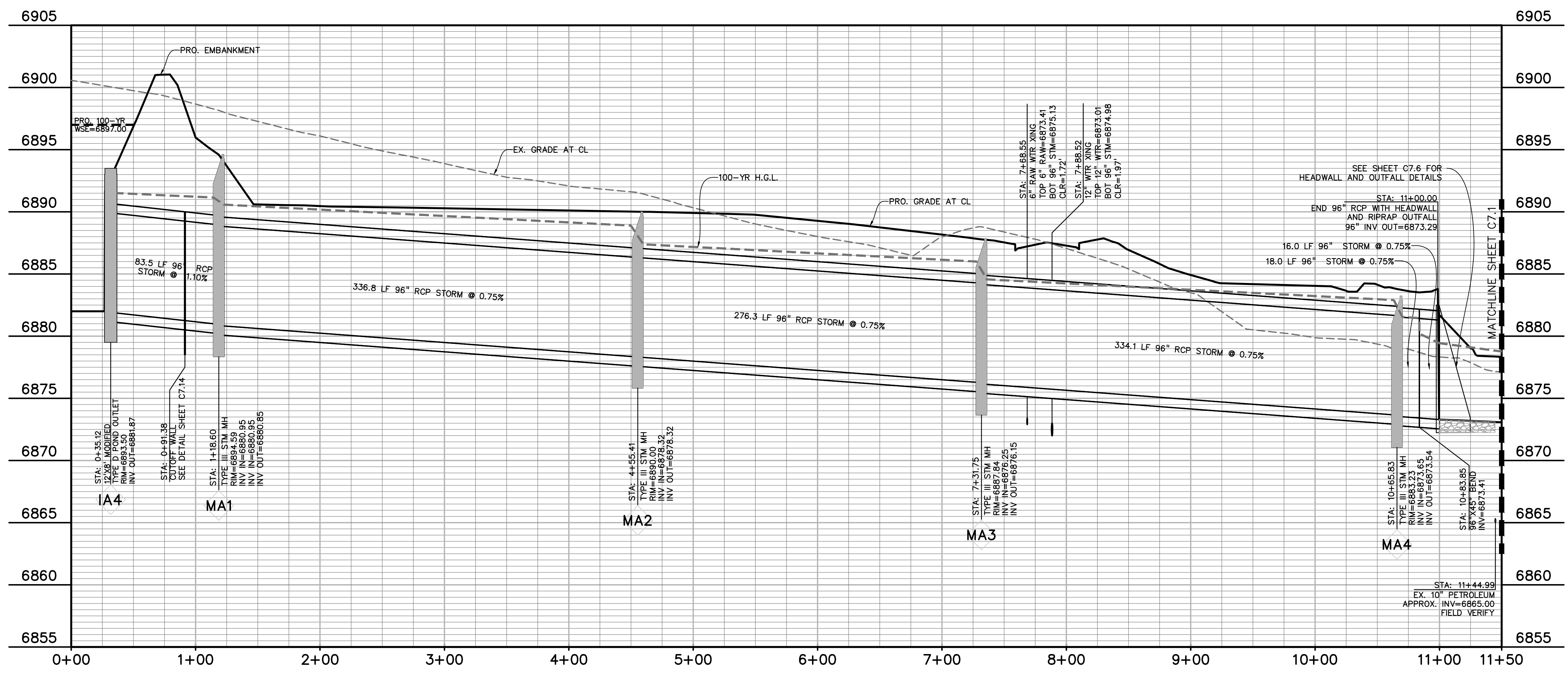
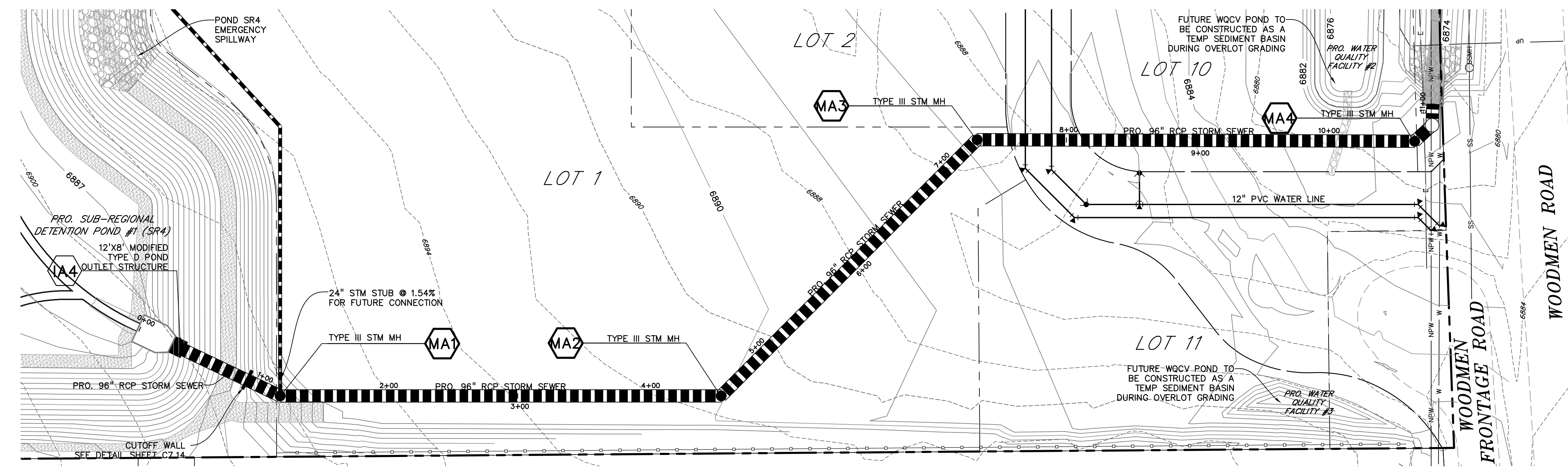
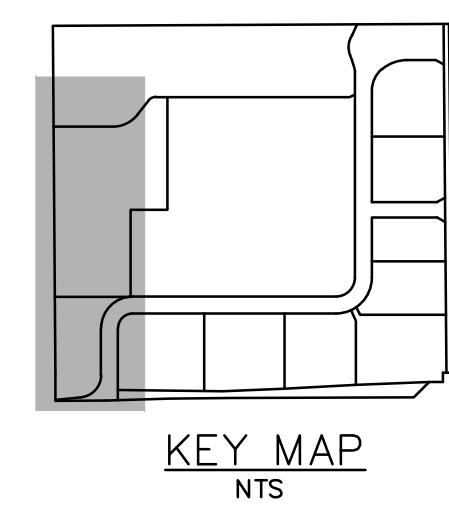
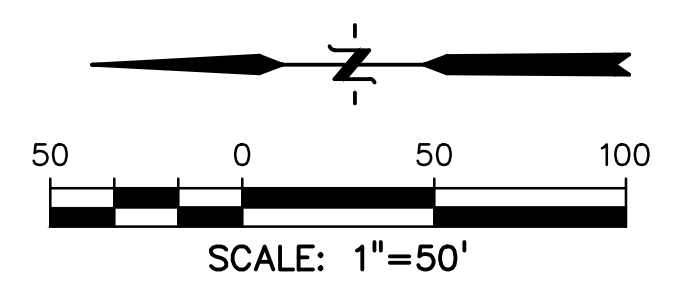
**STORM SEWER
 PLAN &
 PROFILE**

PROJECT NO. 20988-00CSCV
 DRAWING NO.

C7.0

LEGEND

- PROPERTY LINE
- LOT LINE
- EASEMENT
- CURB & GUTTER
- SIDEWALK
- PRO. WATER LINE
- PRO. FIRE HYDRANT
- PRO. RAW WATER
- PRO. SANITARY SEWER
- PRO. STORM SEWER
- EX. OVERHEAD ELECTRIC
- EX. SANITARY SEWER
- EX. PETROLEUM
- EX. GAS
- EX. RAW WATER
- EX. WATER
- EX. STORM SEWER



POND #1 (SR4) OUTFALL TO OPEN CHANNEL

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 FALCON, COLORADO

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**STORM SEWER
 PLAN &
 PROFILE**

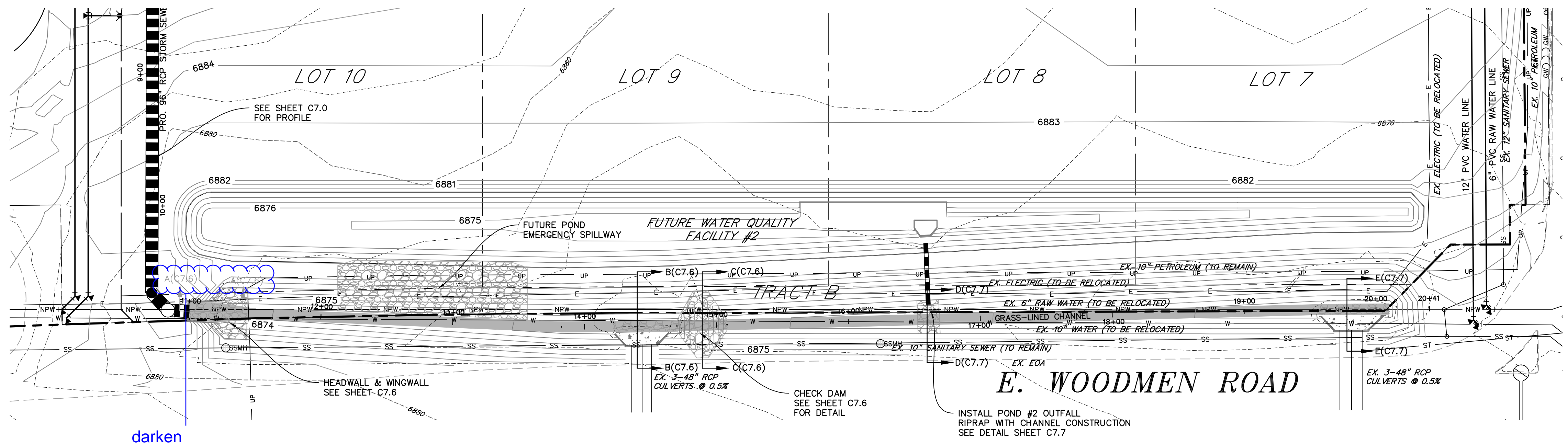
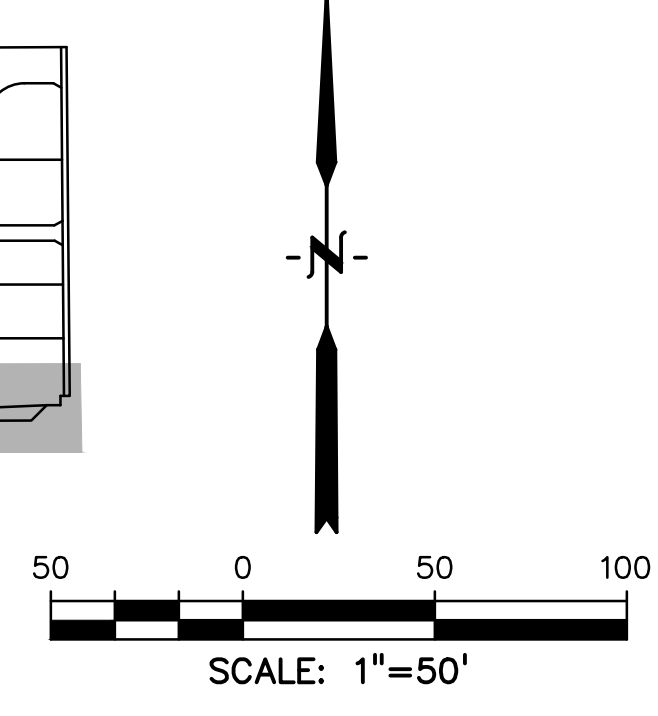
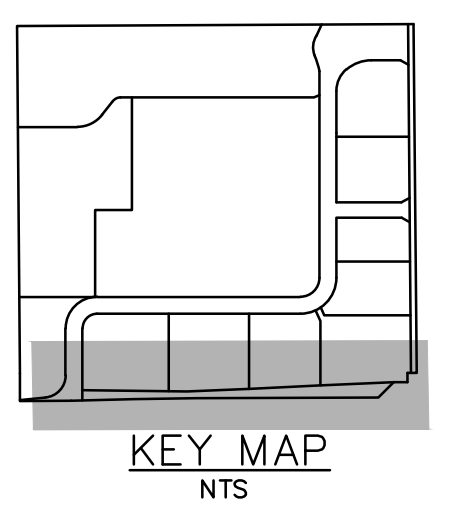
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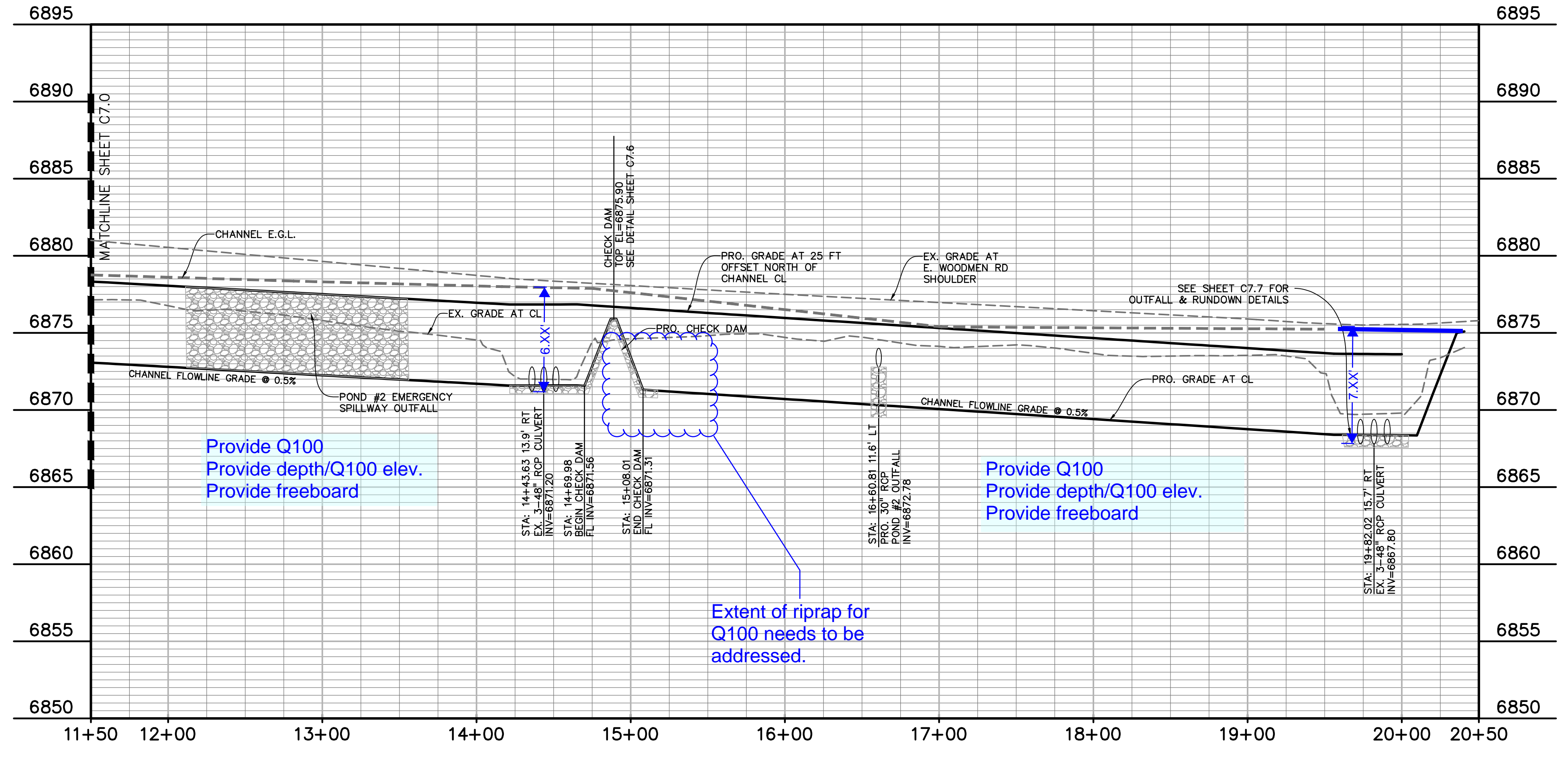
SHEET: 8 OF 27

LEGEND

- PROPERTY LINE
- LOT LINE
- EASEMENT
- CURB & GUTTER
- SIDEWALK
- PRO. WATER LINE
- PRO. FIRE HYDRANT
- PRO. RAW WATER
- PRO. SANITARY SEWER
- PRO. STORM SEWER
- EX. OVERHEAD ELECTRIC.....
- EX. SANITARY SEWER.....
- EX. PETROLEUM.....
- EX. GAS.....
- EX. RAW WATER.....
- EX. WATER.....
- EX. STORM SEWER.....



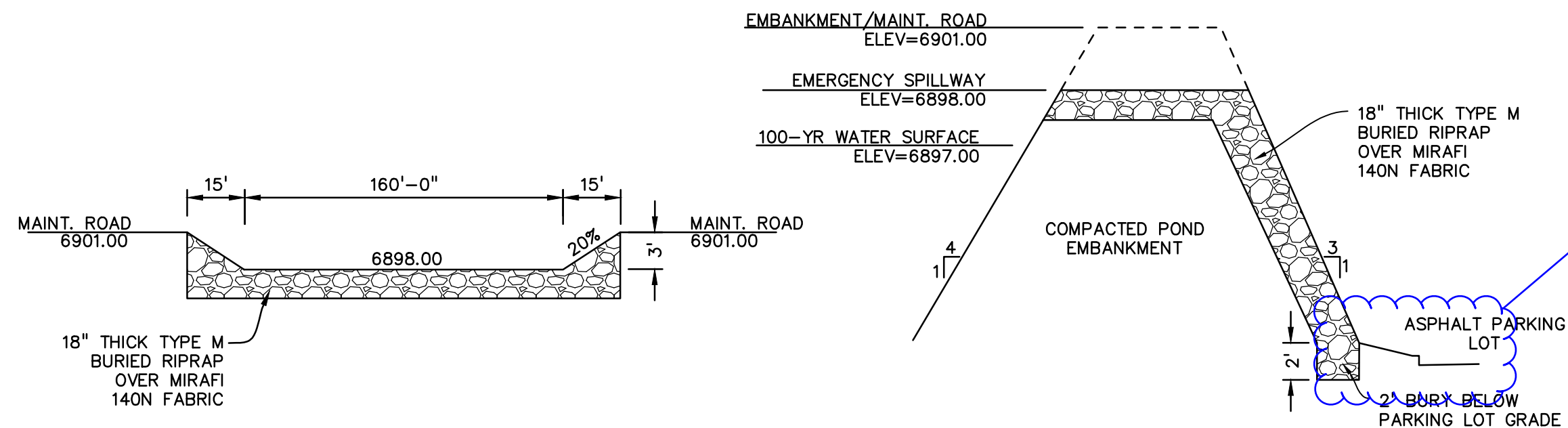
darken
 cross-section
 label



OPEN CHANNEL ALONG E. WOODMEN ROAD

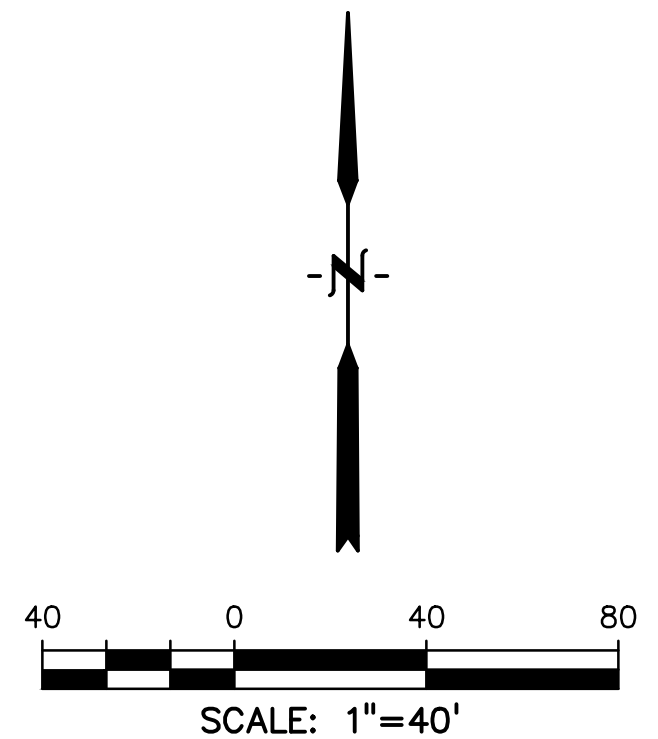
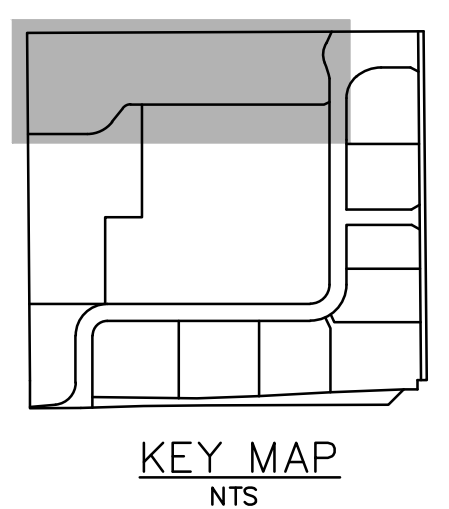
811 Know what's below.
 Call before you dig.
 CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE YOU DIG, GRADE, OR
 EXCAVATE FOR THE MARKING OF
 UNDERGROUND MEMBER UTILITIES.

EL PASO COUNTY FILE #08P-17-001



Provide specific details.

Please show section lines on the plan view for these sections.



LEGEND

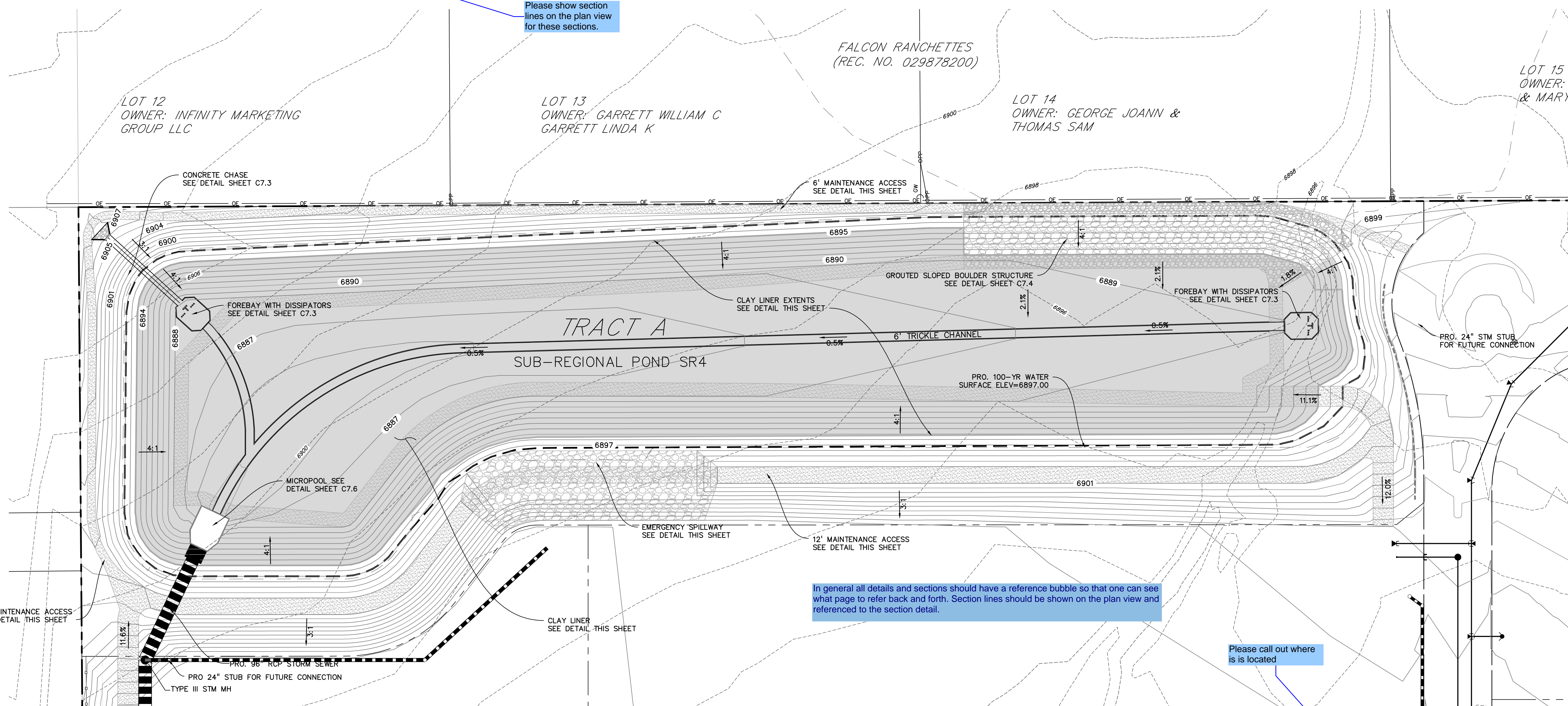
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LOT LINE	-----
CURB & GUTTER	=====
SIDEWALK	=====
PRO. WATER LINE	-----
PRO. FIRE HYDRANT	-----
PRO. RAW WATER	-----
PRO. SANITARY SEWER	-----
PRO. STORM SEWER	-----
EX. OVERHEAD ELECTRIC	-----
EX. SANITARY SEWER	-----
EX. GAS	-----

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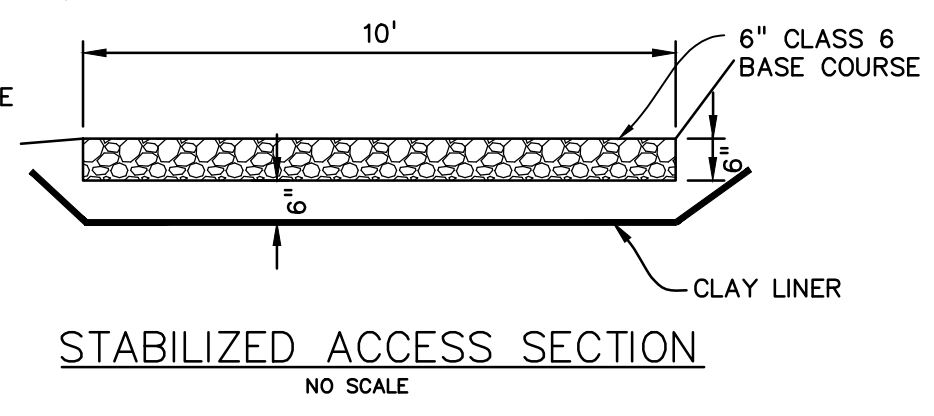
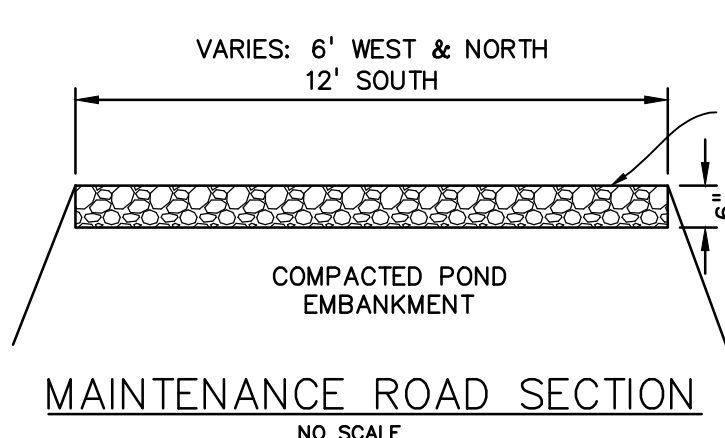
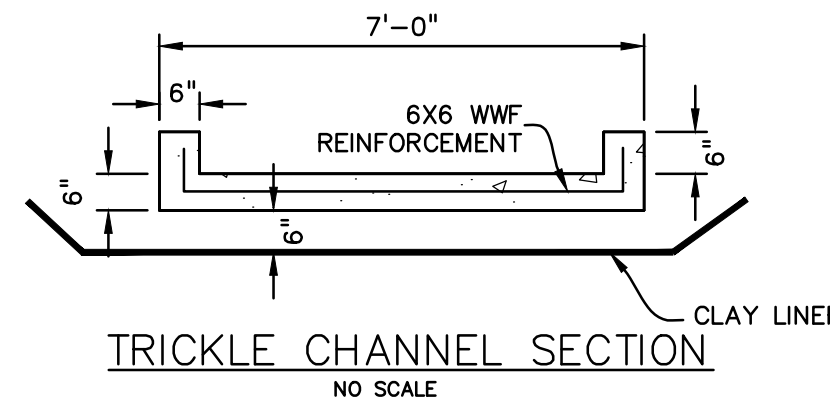
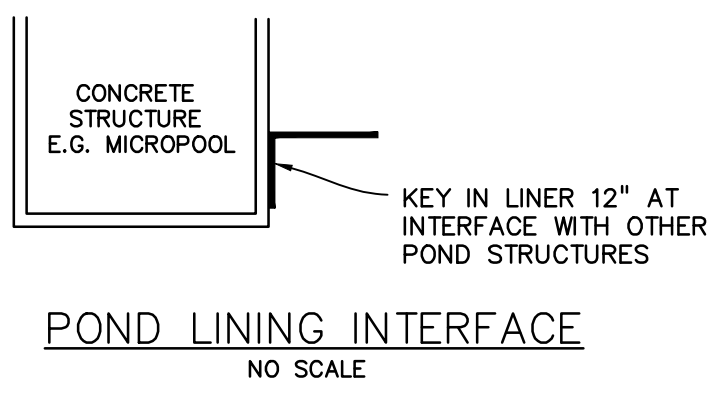
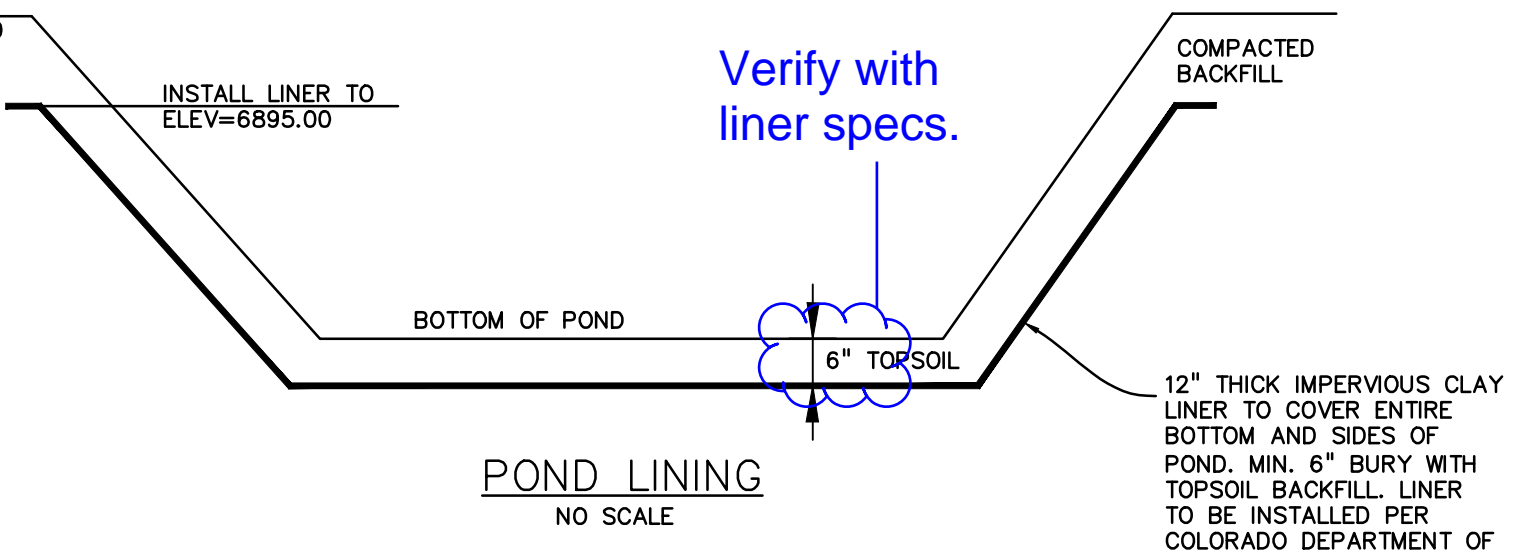
OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO



In general all details and sections should have a reference bubble so that one can see what page to refer back and forth. Section lines should be shown on the plan view and referenced to the section detail.

Please call out where is is located

Verify with liner specs.



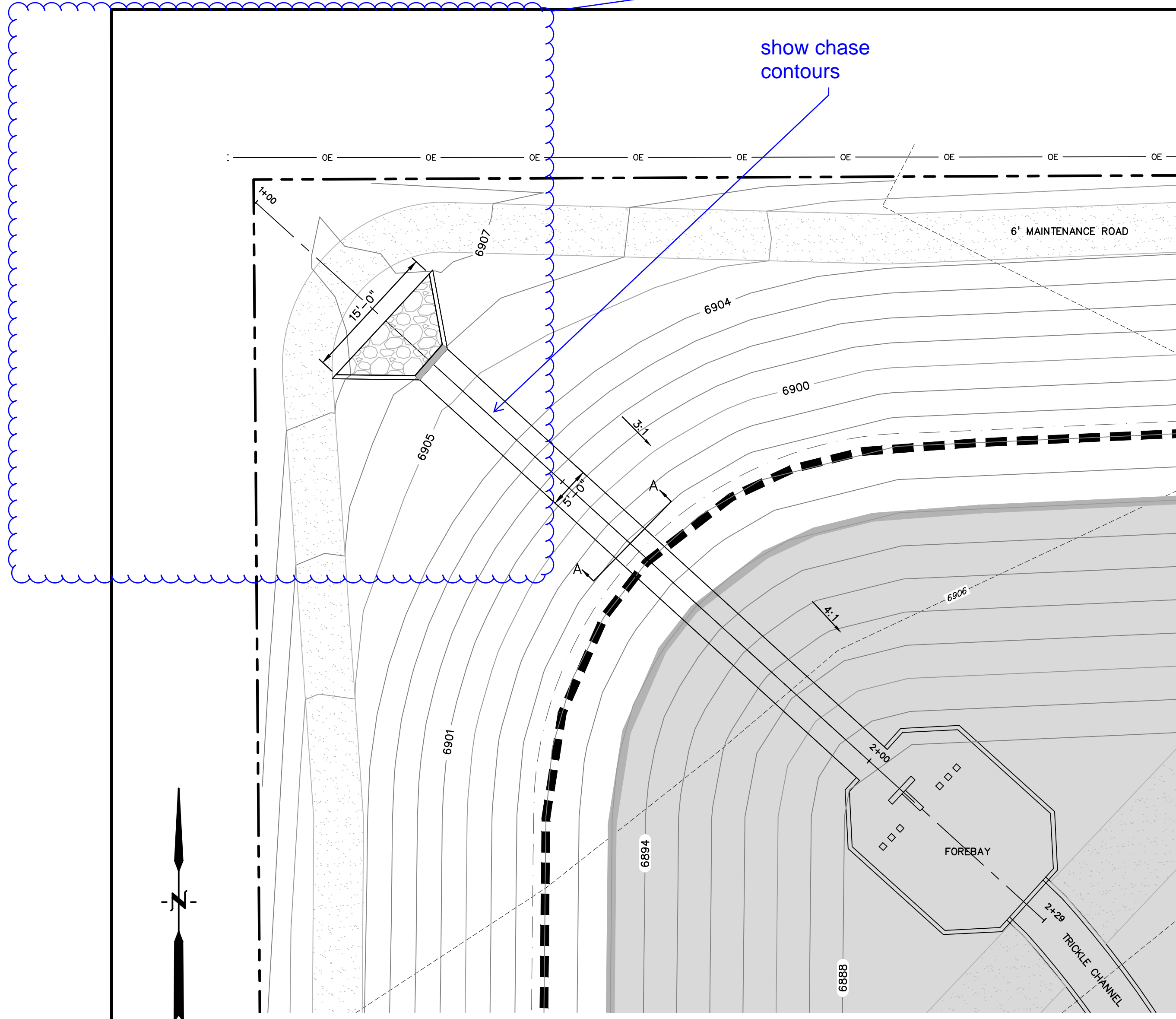
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CHECKED BY:	TDM
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 VERTICAL: N/A

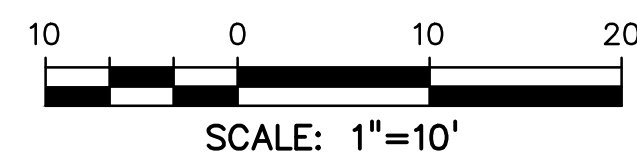
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 DRAWING NO.

C7.2
 SHEET: 9 OF 27

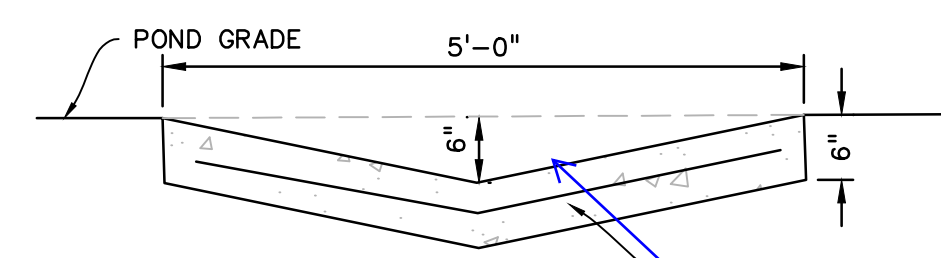
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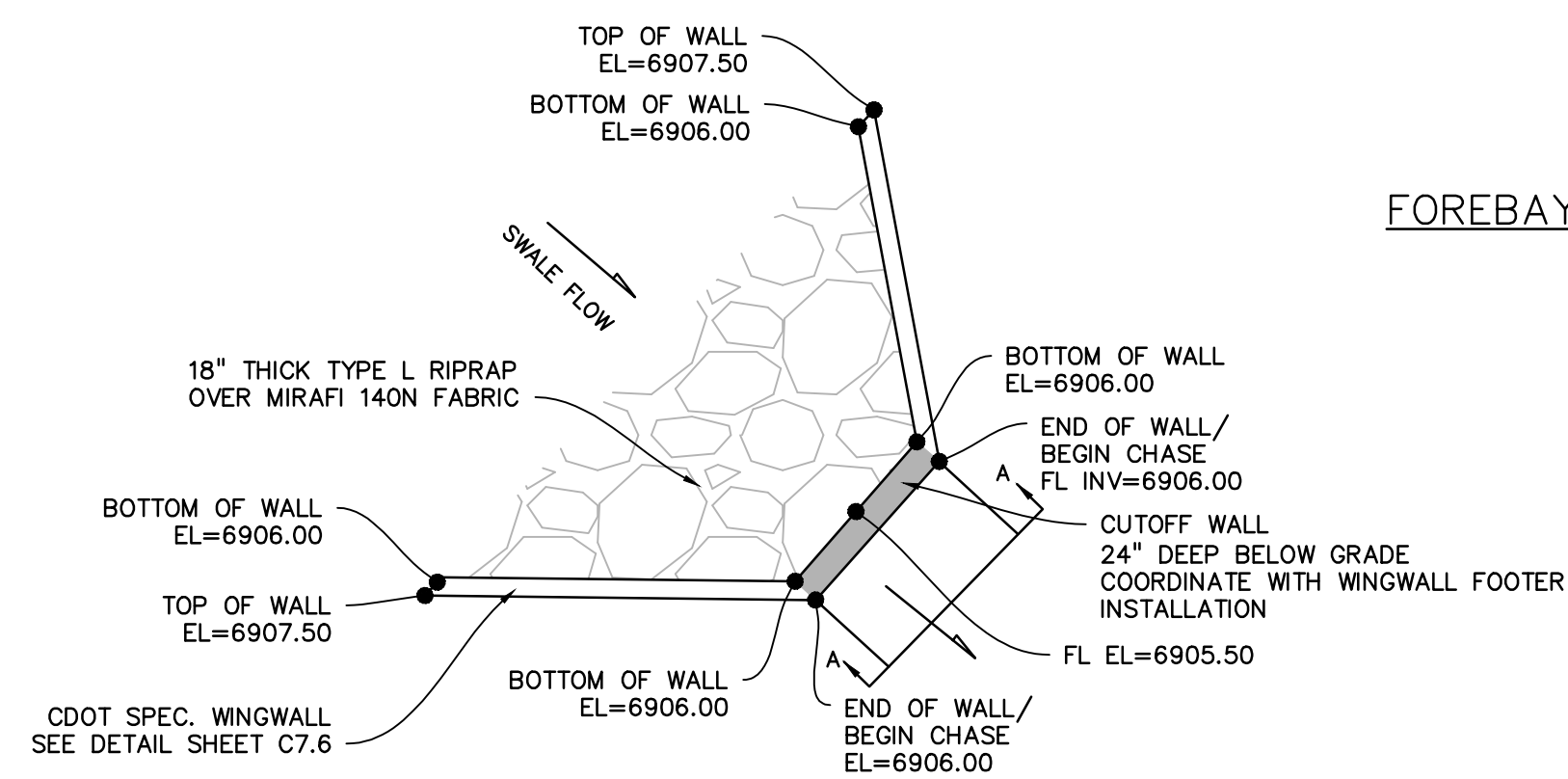
show chase contours



CONCRETE CHASE PLAN
1"=10'

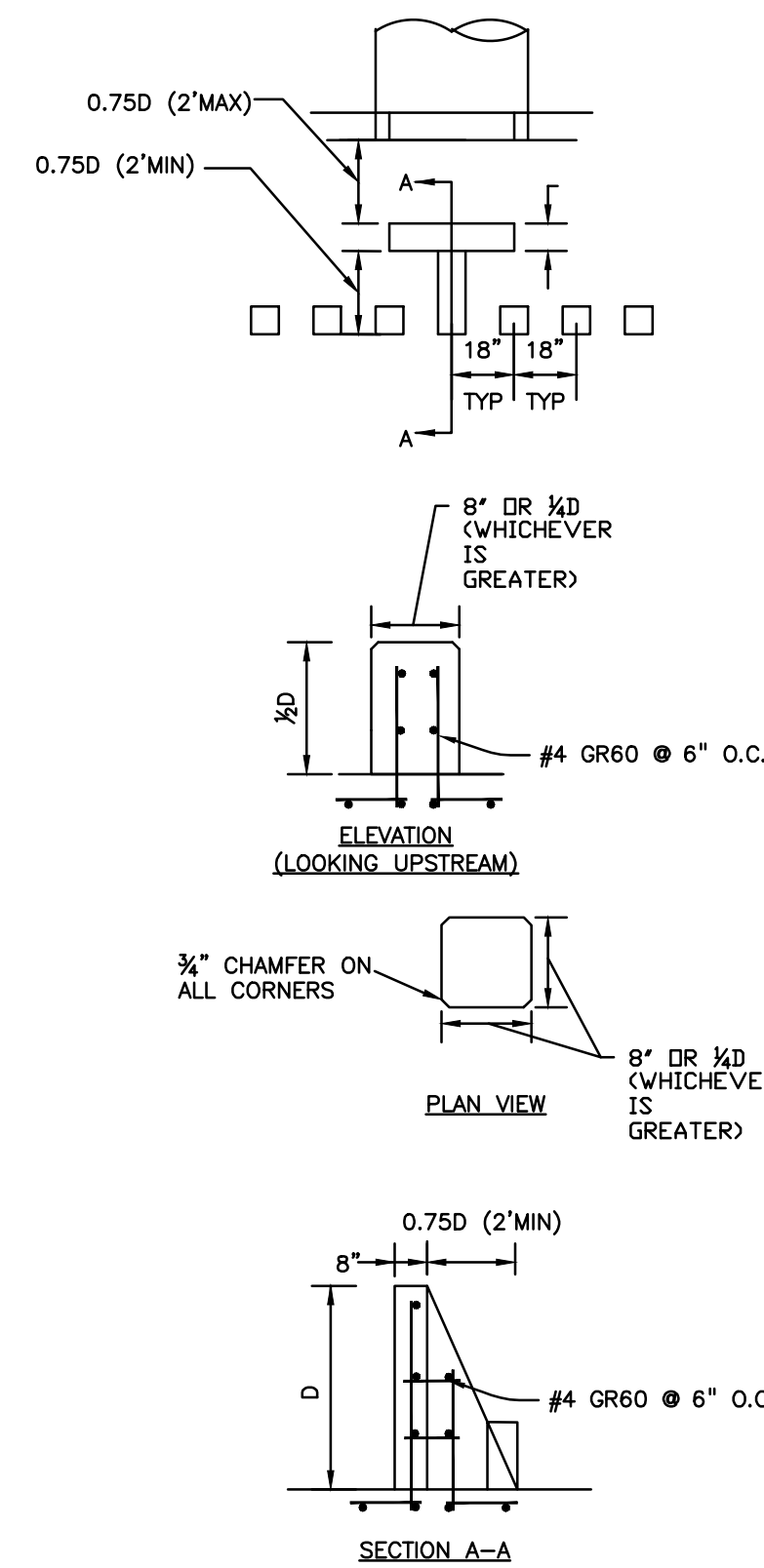


Provide profile showing design details, toe-walls/anchoring.

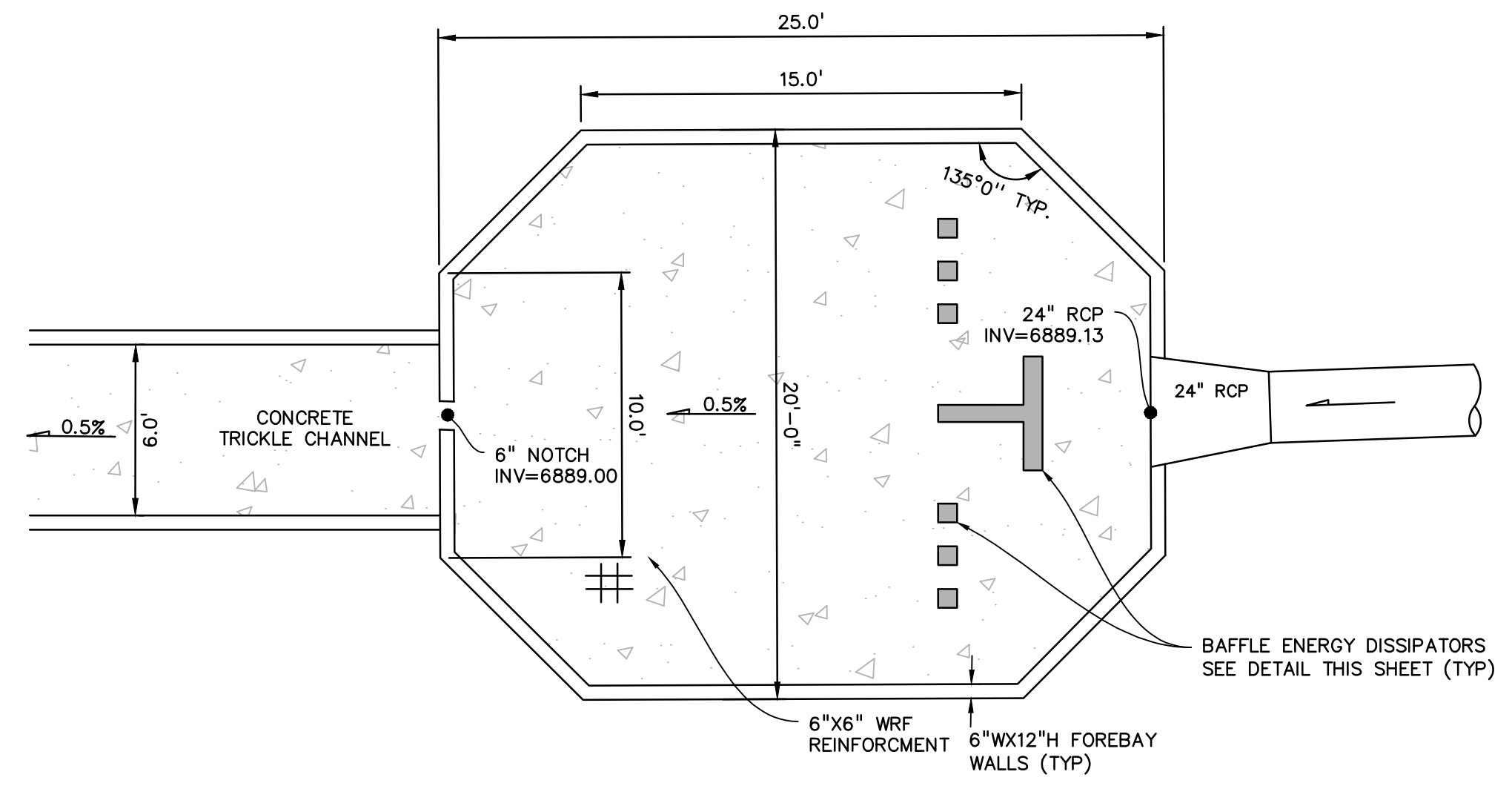


CONCRETE CHASE INFLOW
NO SCALE

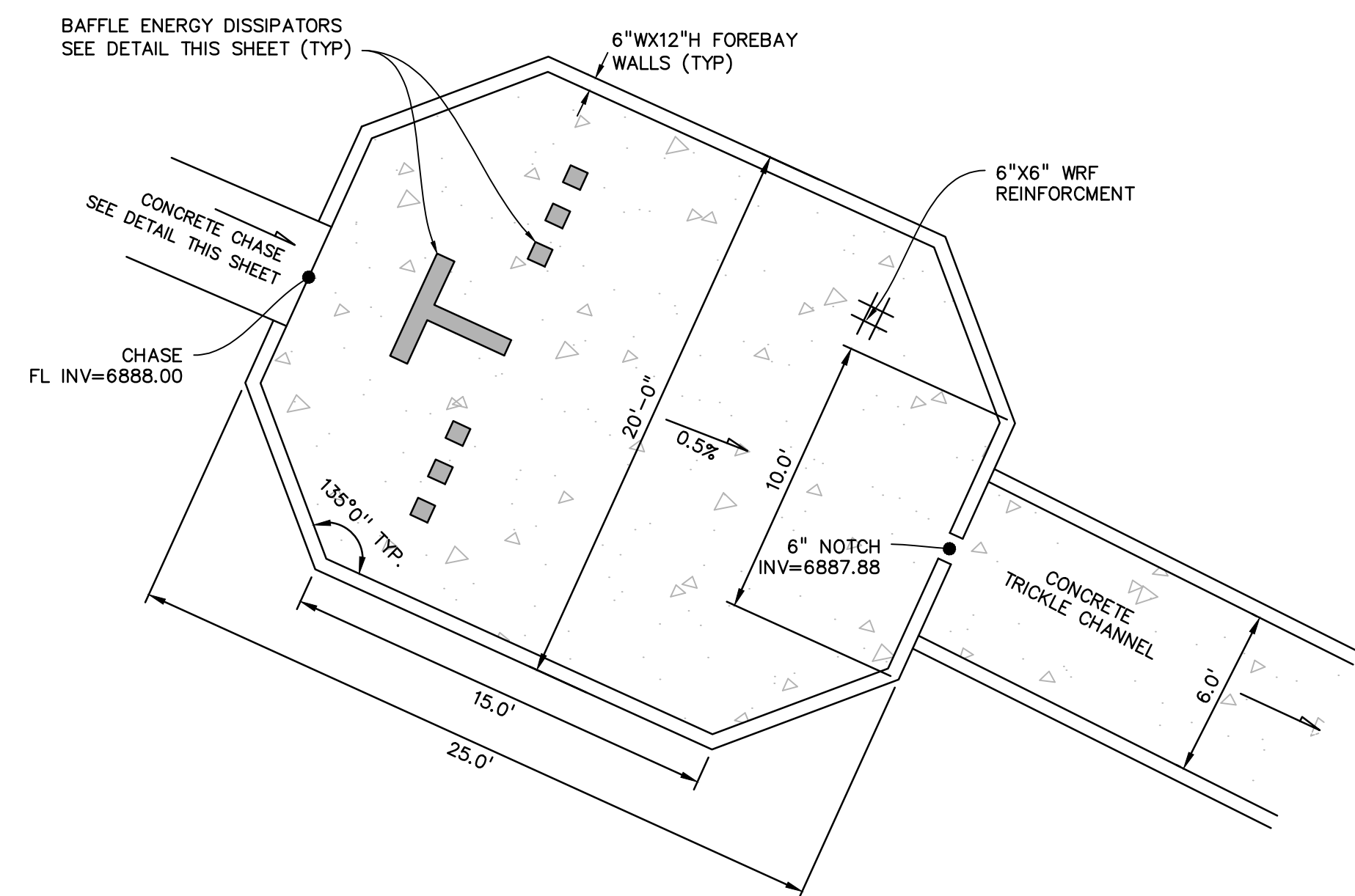
Verify depth based on contributing flow, chase grades.



FOREBAY BAFFLE ENERGY DISSIPATORS
NO SCALE



EAST FOREBAY
NO SCALE



WEST FOREBAY
NO SCALE

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FALCON, COLORADO

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CHECKED BY:	TDM
FILE NAME:	

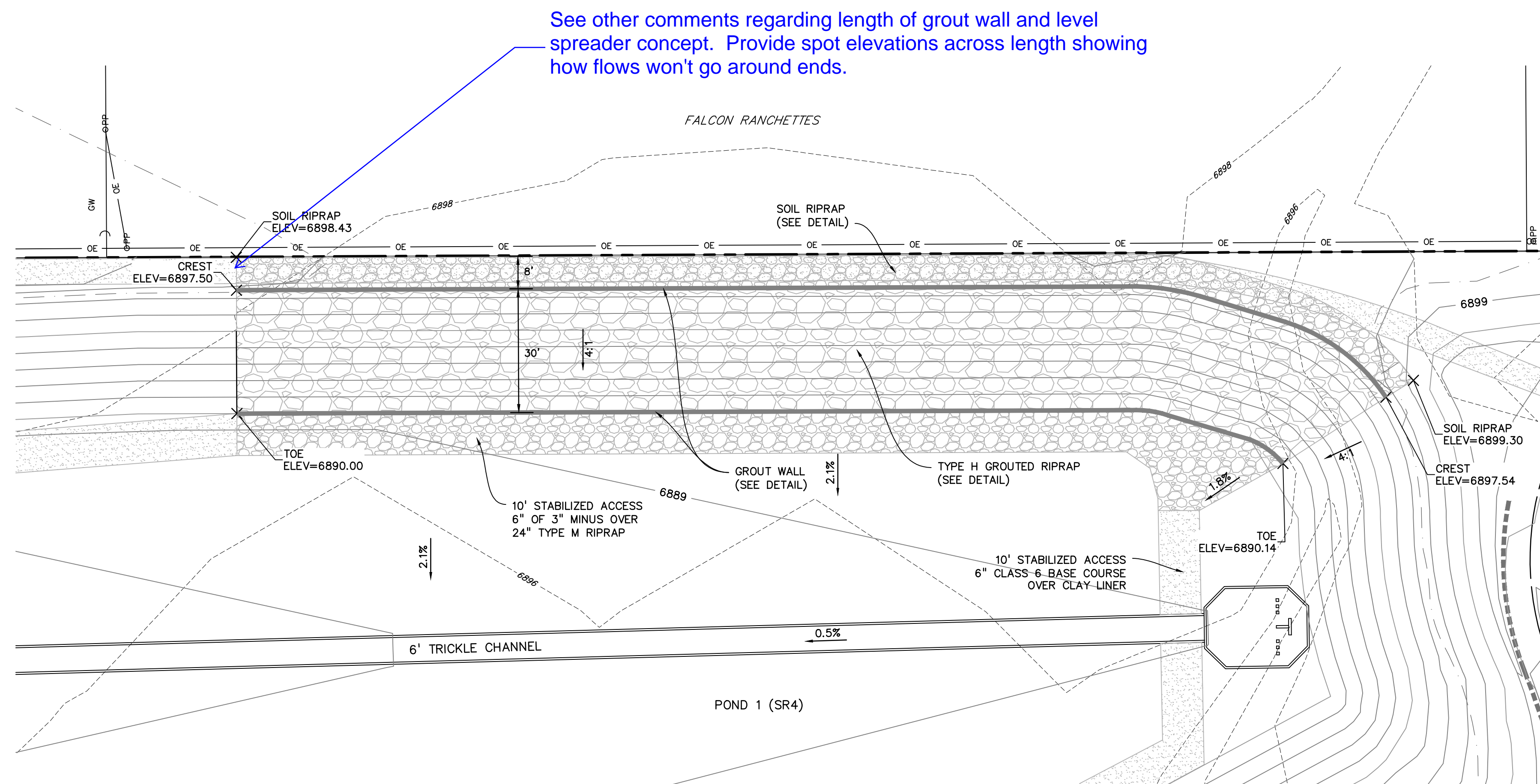
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DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

**POND #1 (SR4)
DETAILS**

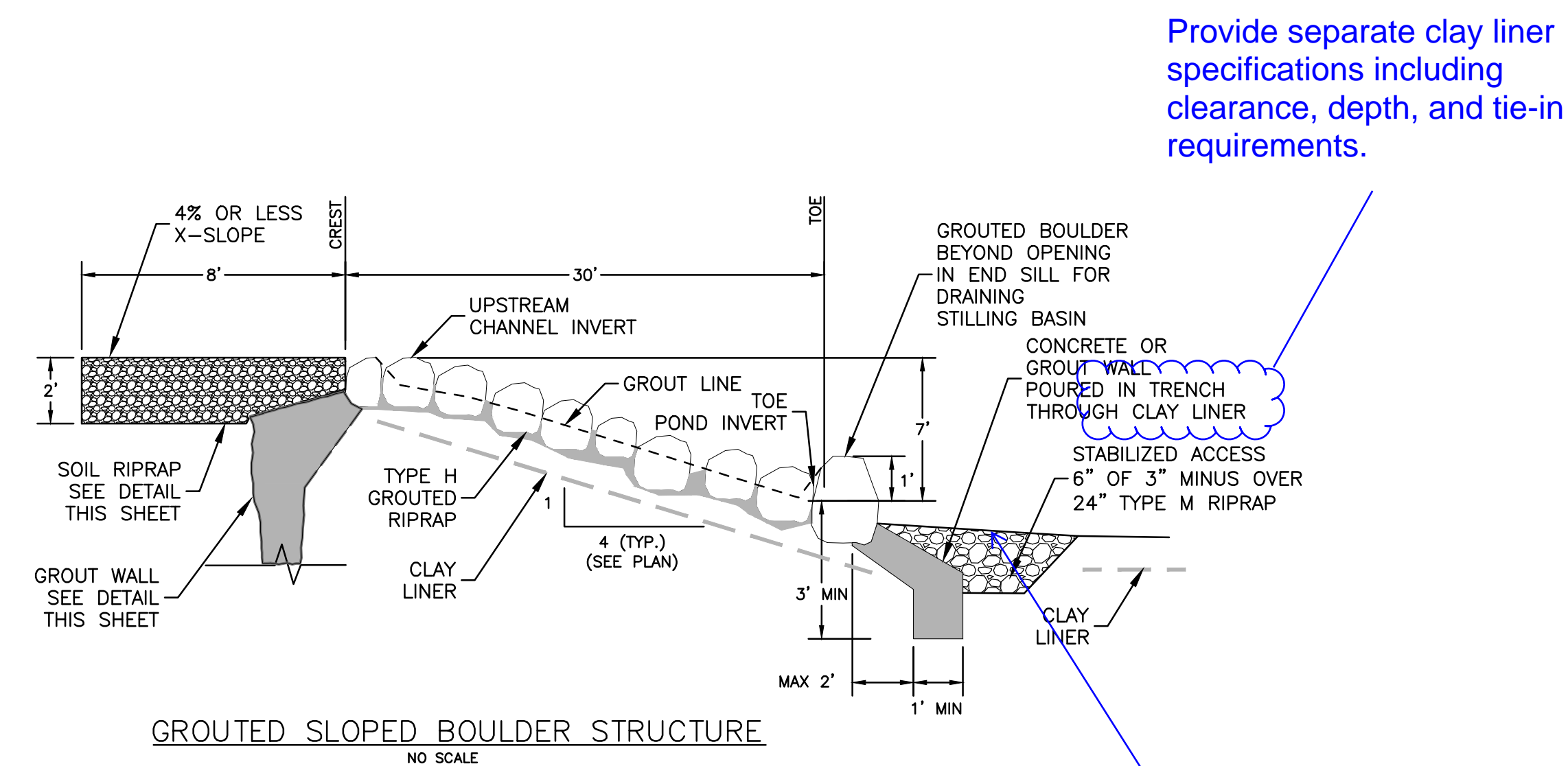
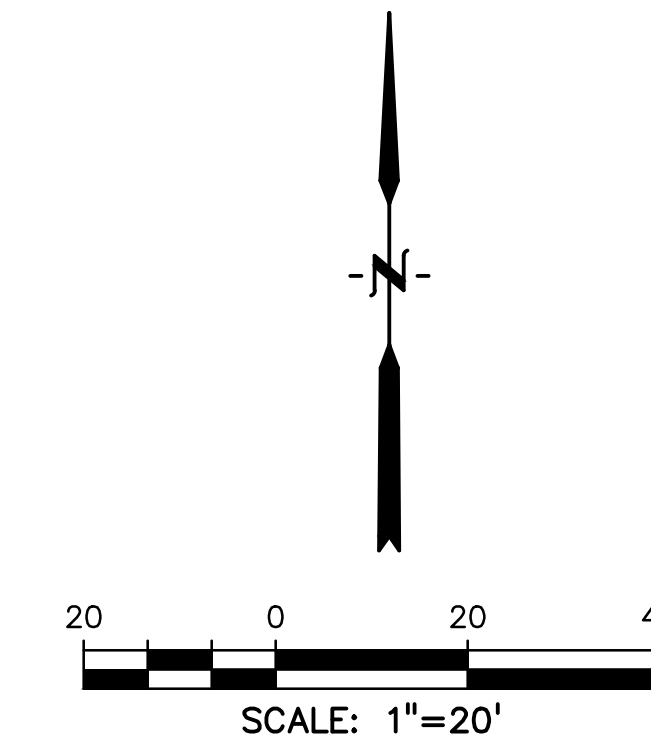
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DRAWING NO.

C7.3

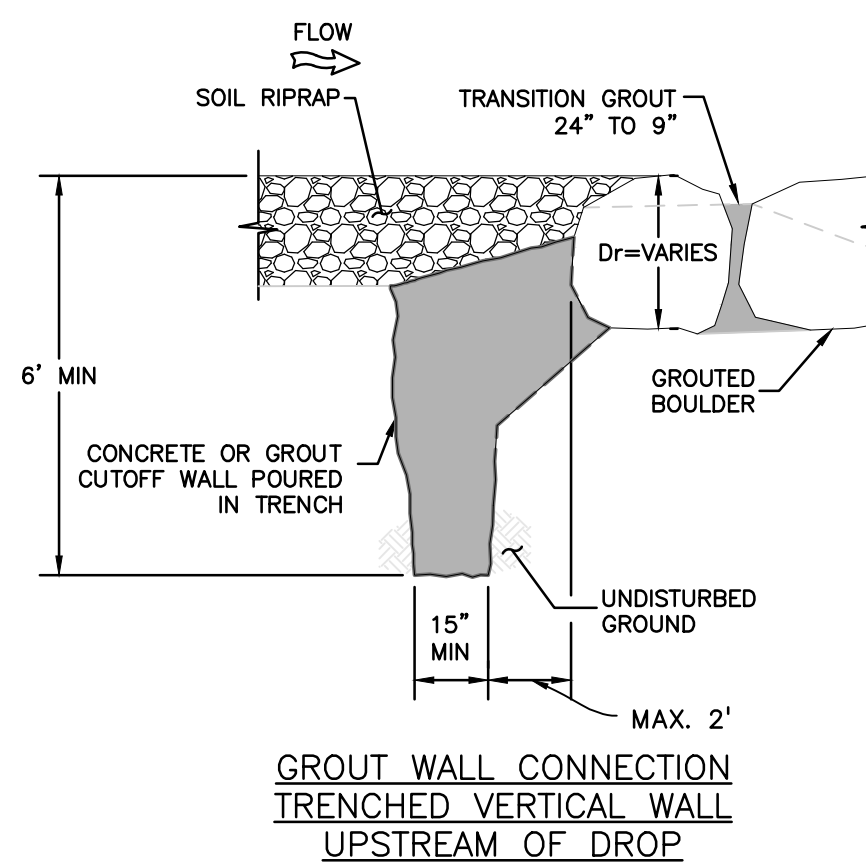
SHEET: 10 OF 27



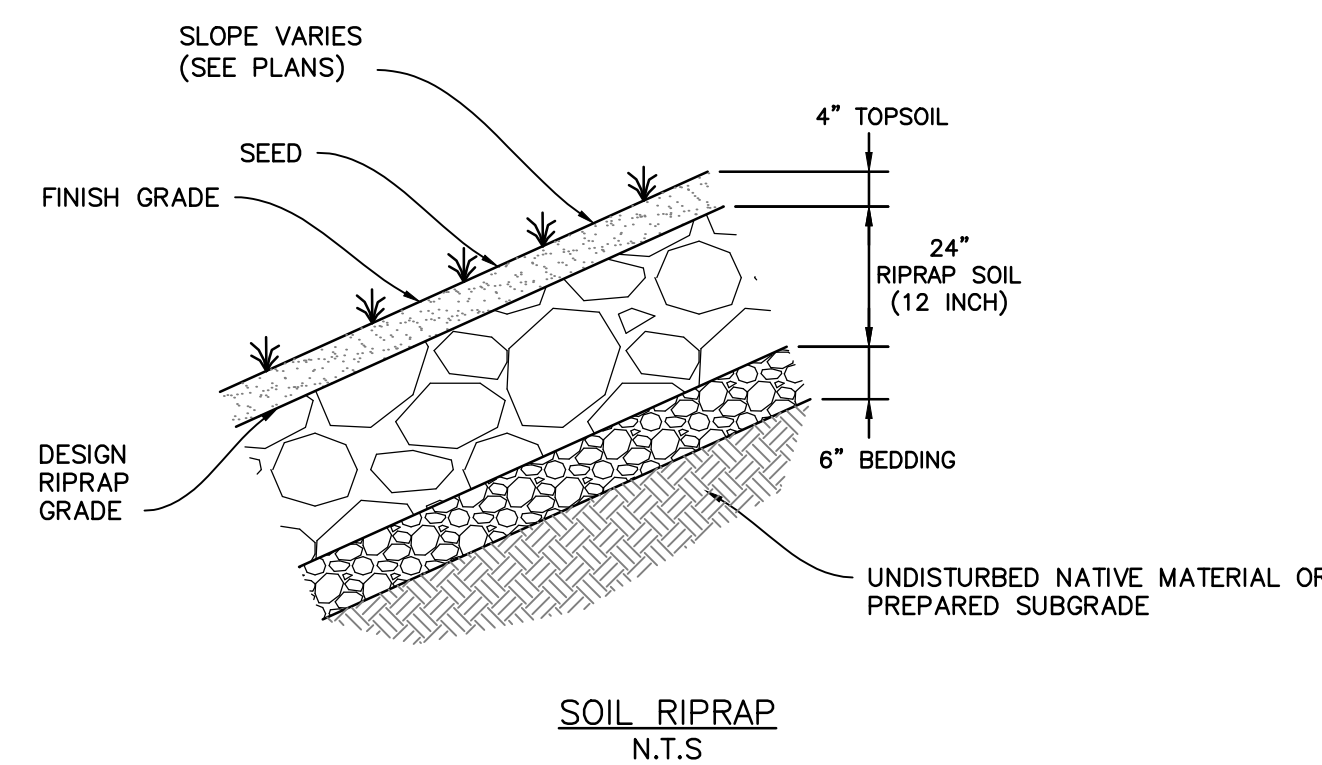
See other comments regarding length of grout wall and level spreader concept. Provide spot elevations across length showing how flows won't go around ends.



Provide separate clay liner specifications including clearance, depth, and tie-in requirements.



Label width. Verify adequacy for entering flow depth and velocity.



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 DRAWING SCALE:
 HORIZONTAL: 1"=20'
 VERTICAL: N/A

**POND #1 (SR4)
 GROUTED DROP
 DETAILS**

PROJECT NO. 20988-00CSCV
 DRAWING NO.

C7.4

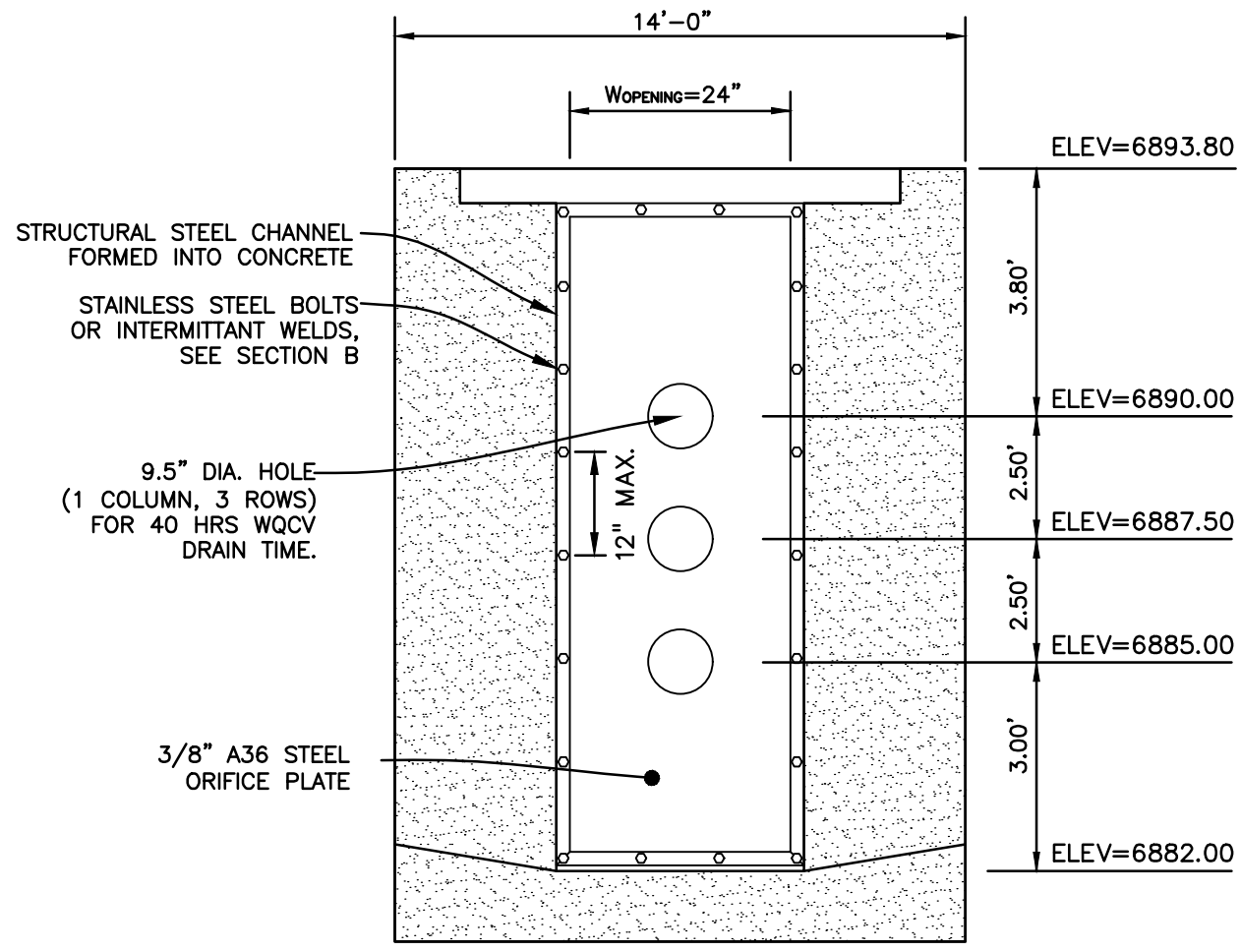
Spec sheet in PDR shows close-mesh. Clarify which type is being used.

Detail section dimensions

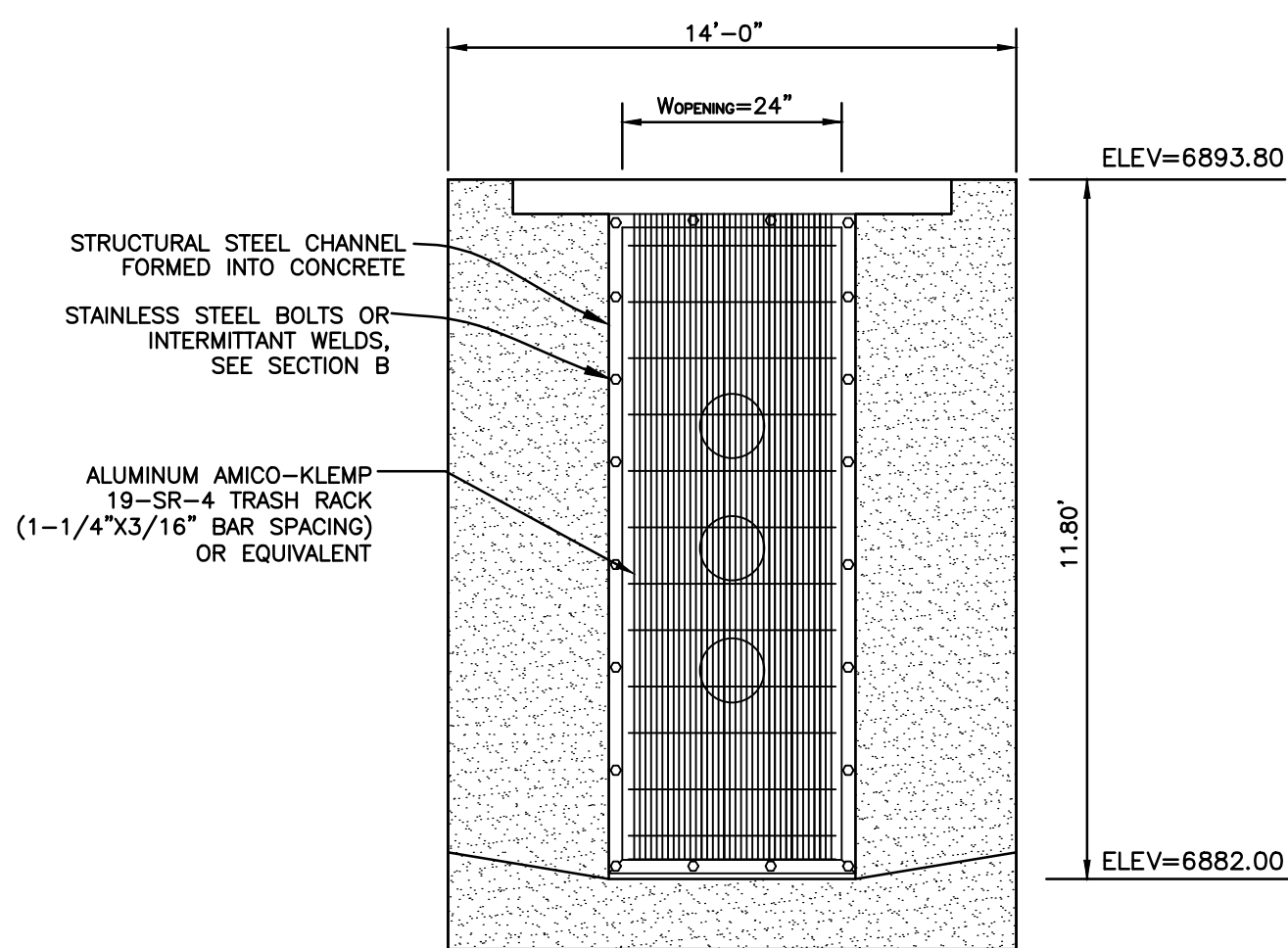
Specify gasket material (neoprene or equivalent)

specify width to ensure constructability.

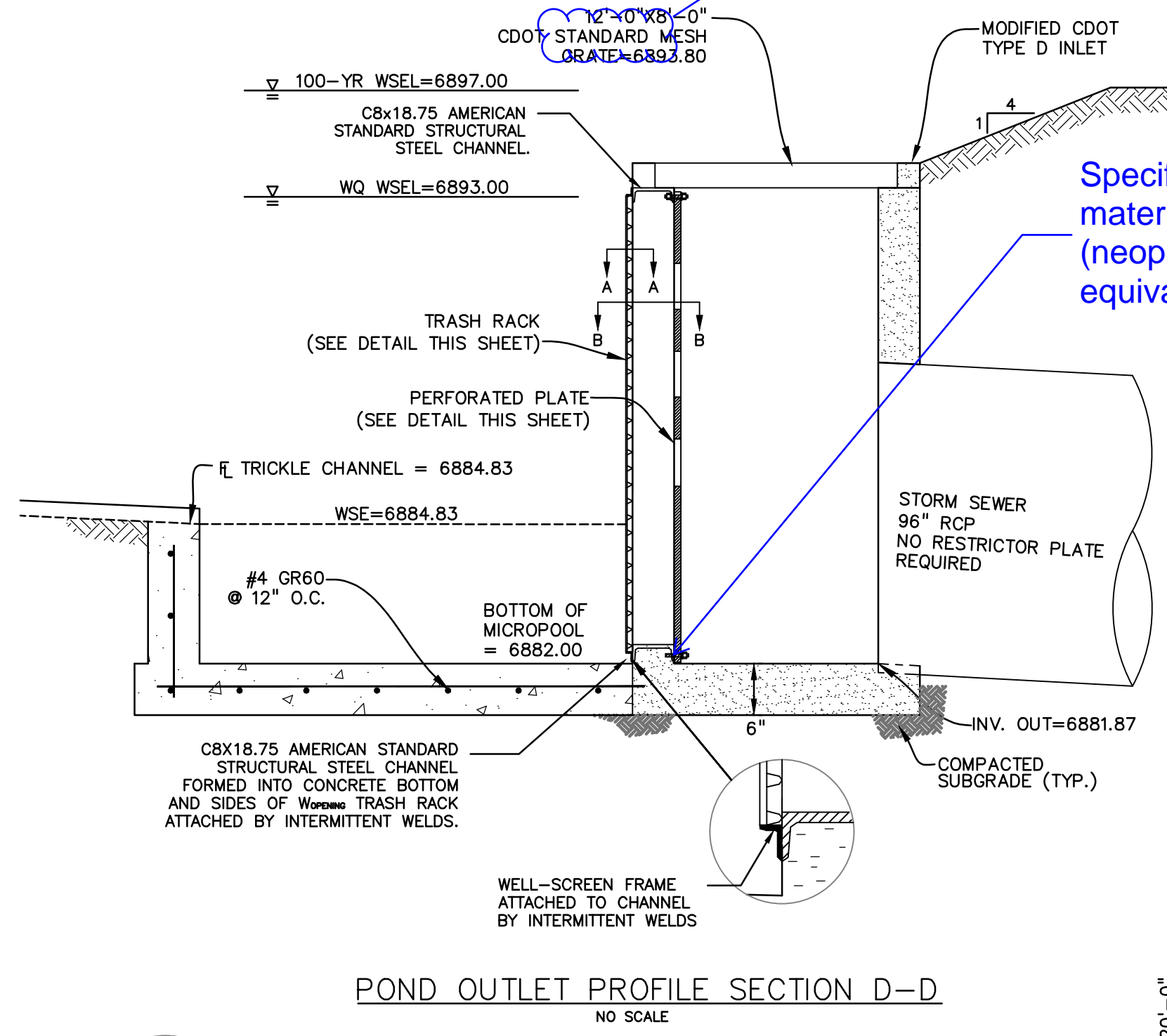
? - Clarify what will be coated (not stainless steel)



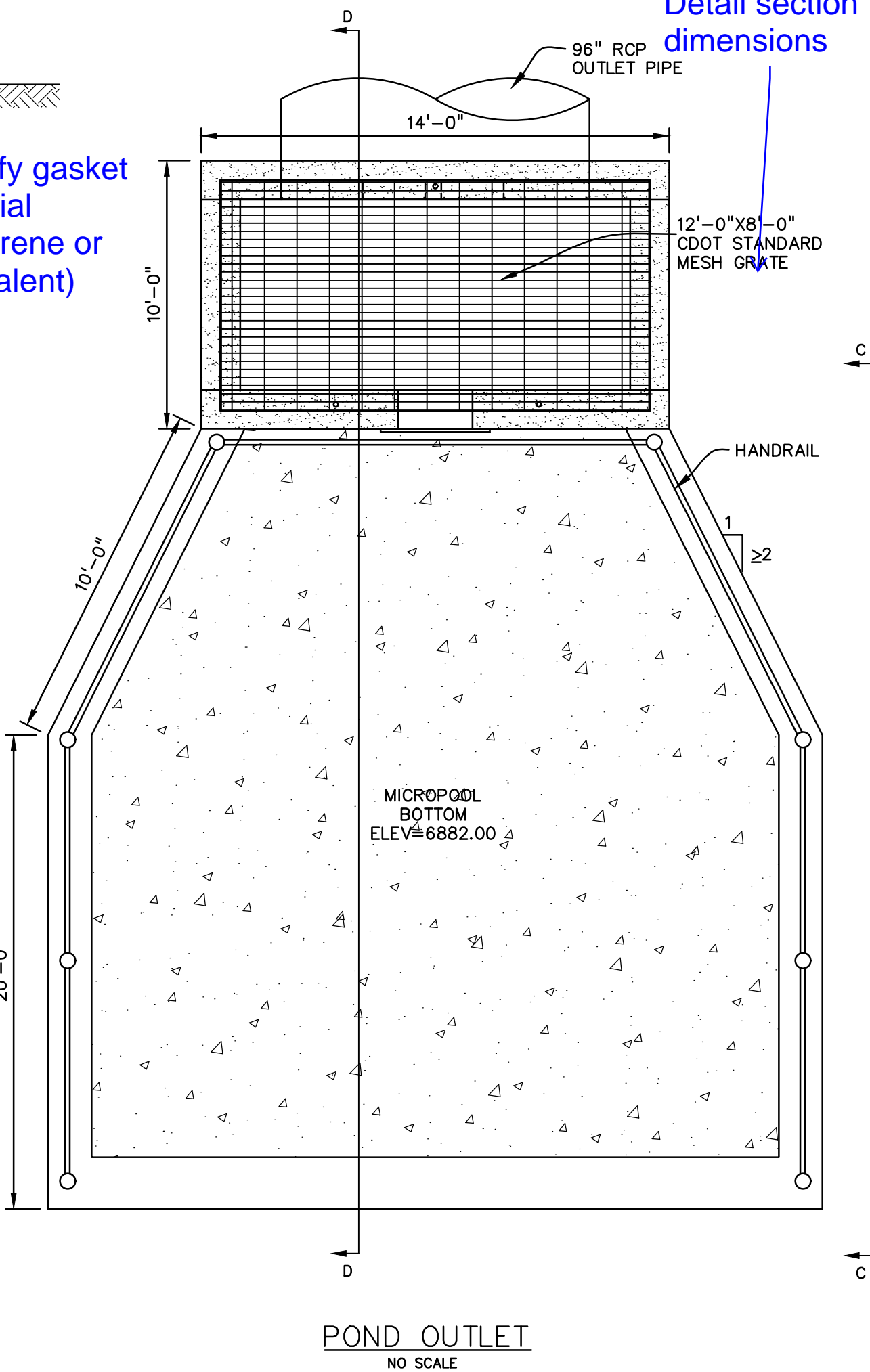
ELEVATION PERFORATED PLATE DETAIL
NO SCALE



ELEVATION TRASH RACK
NO SCALE



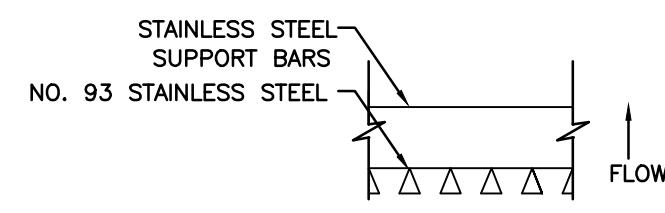
POND OUTLET PROFILE SECTION D-D
NO SCALE



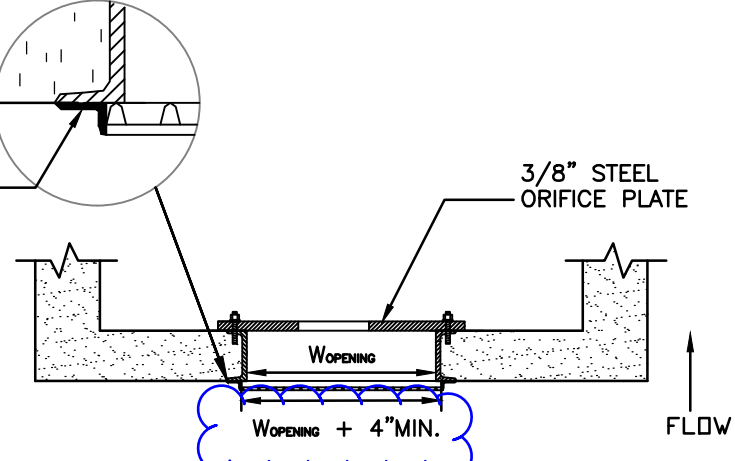
POND OUTLET
NO SCALE

PERFORATED PLATE NOTES:

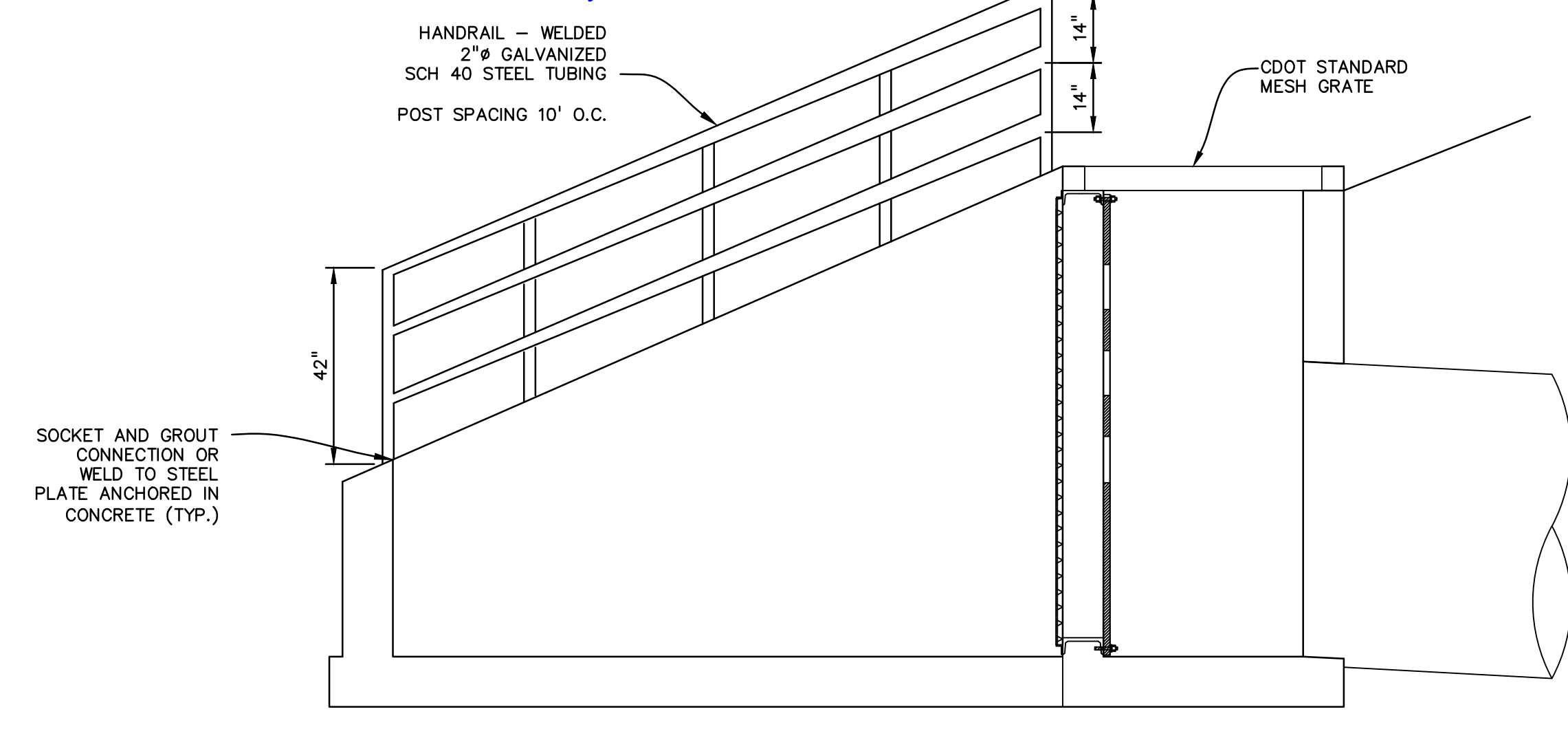
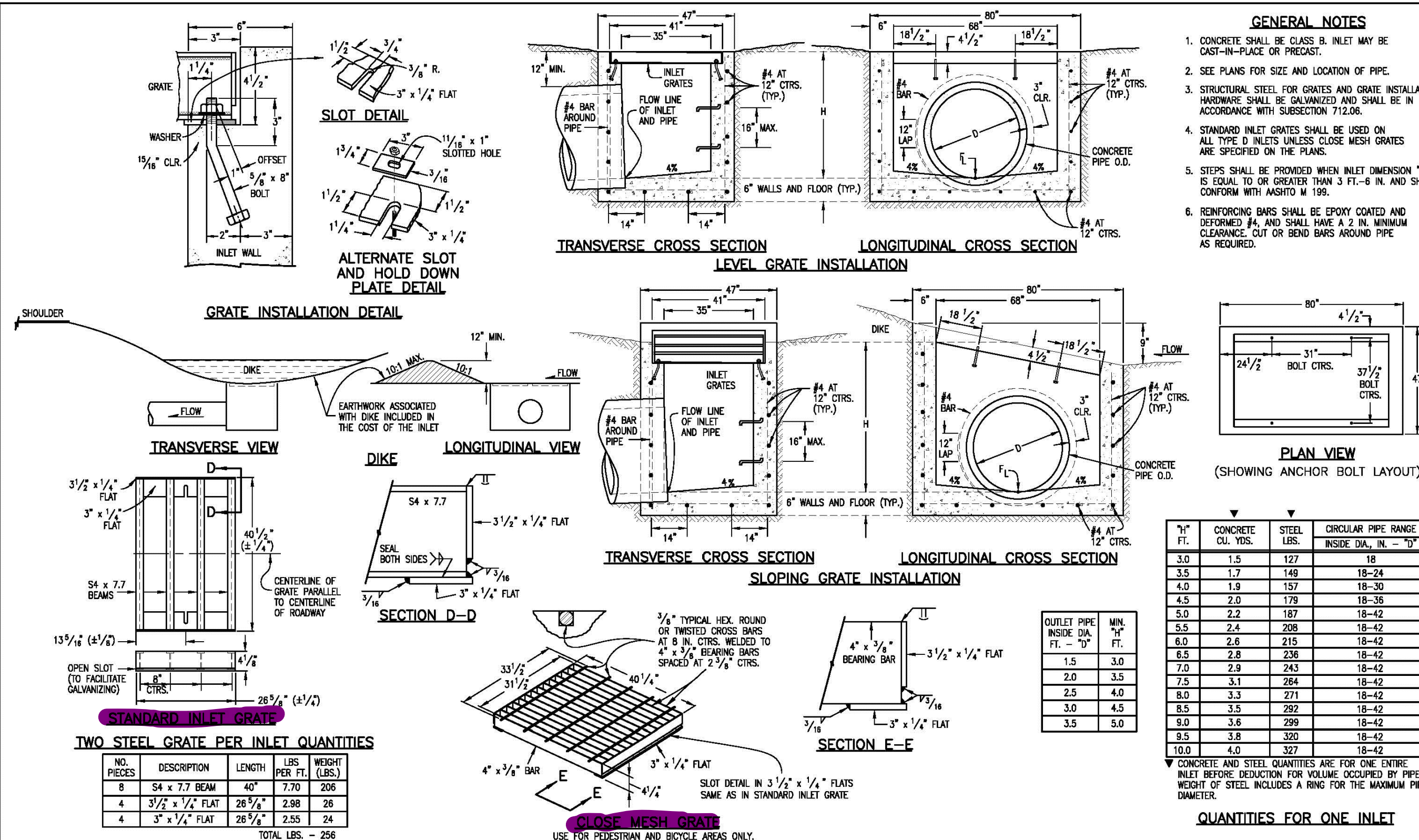
1. PROVIDE GASKET MATERIAL OR GROUT BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE @ 12" MAX. ON CENTER. ORIFICE PLATE IS TO BE REMOVABLE.
3. ALL METAL SURFACES ARE TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND.



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



SECTION C-C
NO SCALE

PREPARED BY:
DREXEL, BARRELL & CO.
Engineers-Surveyors
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OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: TDM
DRAWN BY: KGV
CHECKED BY: TDM
FILE NAME:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

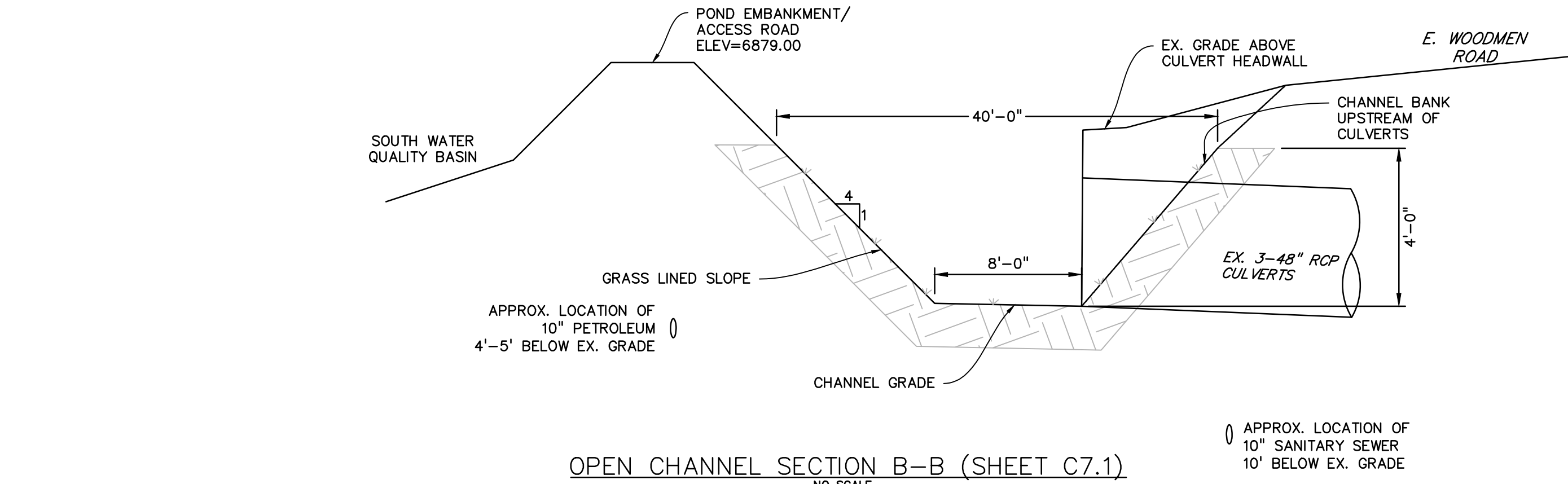
POND #1 (SR4) DETAILS

PROJECT NO. 20988-00CSV
DRAWING NO.

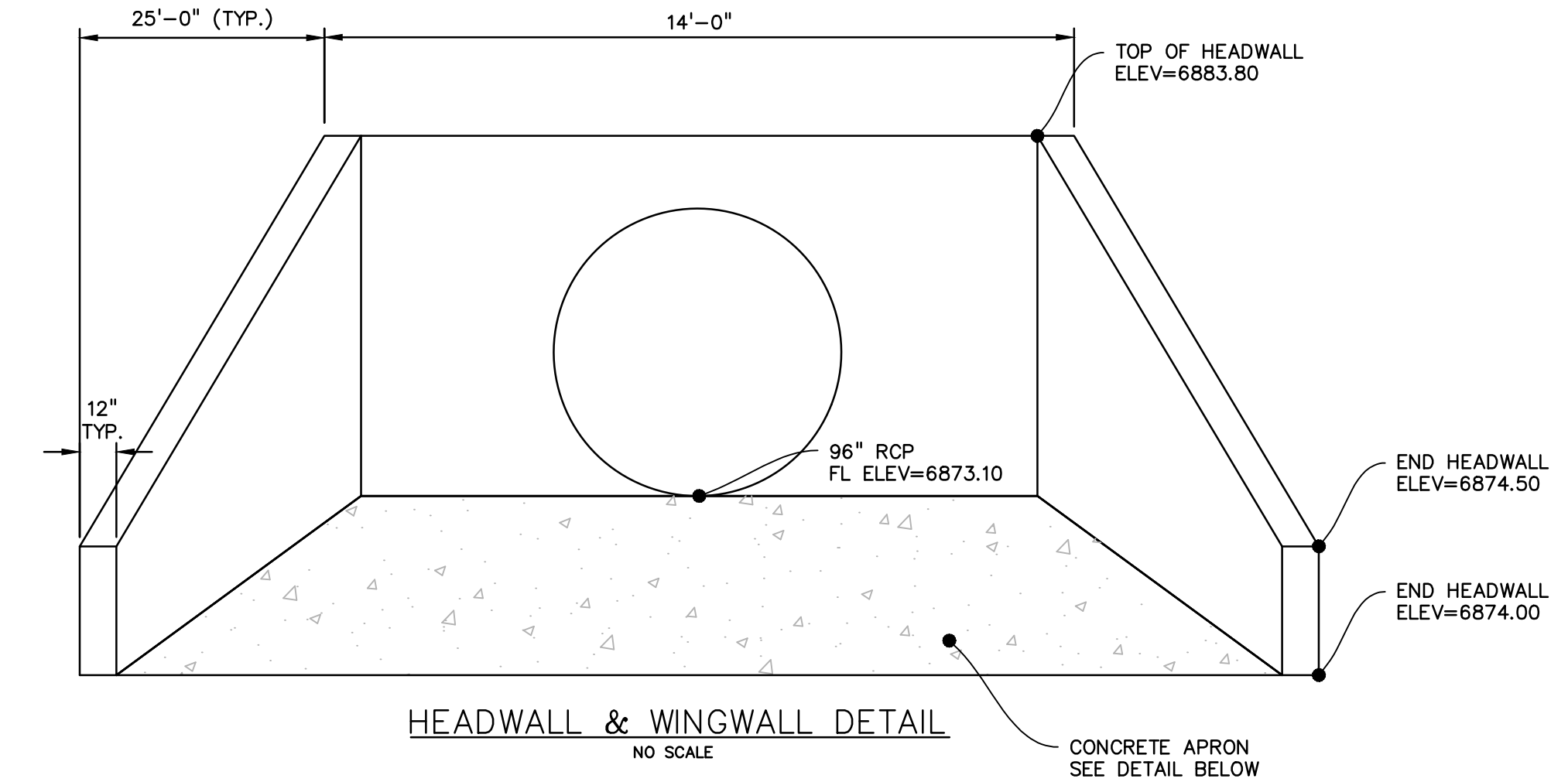
C7.5
SHEET: 12 OF 27

Computer File Information Creation Date: 07/04/08 Initials: SJR Last Modification Date: 07/04/08 Initials: LTA Full Path: www.dot.state.co.us/DesignSupport/ Drawing File Name: 6040110101.dwg CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: Comments 1.0 2.0 3.0 4.0	Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-8683 Fax: (303) 757-8820 Project Development Branch SRJ/LTA	INLET, TYPE D STANDARD PLAN NO. M-604-11 Sheet No. 1 of 1
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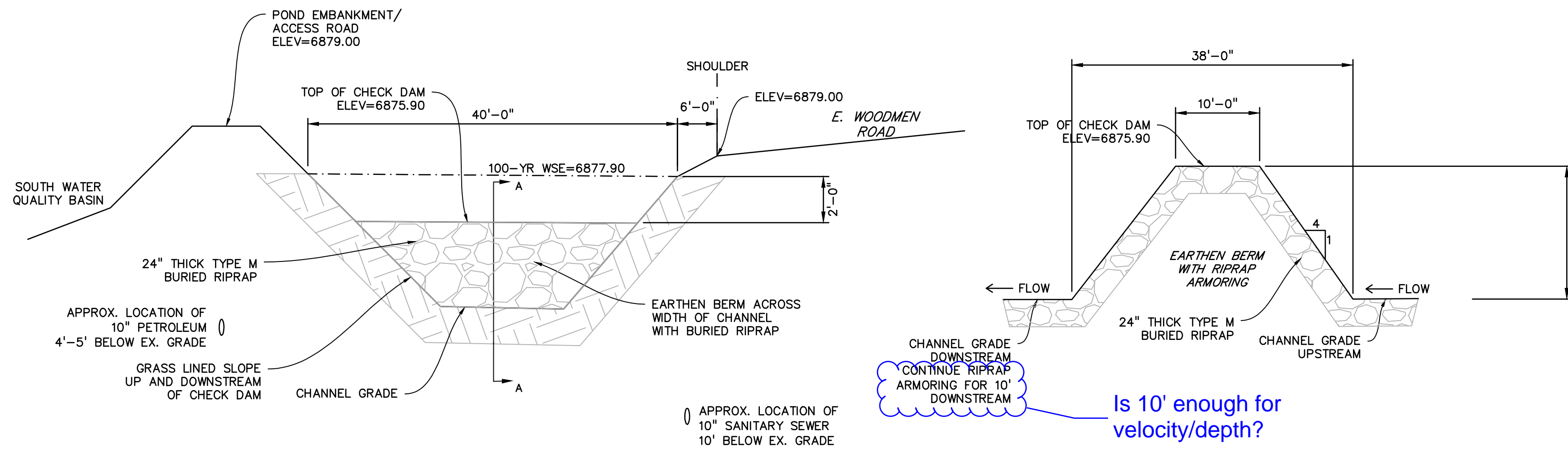
Show water and electric on cross-sections and/or add note that these will be relocated.



OPEN CHANNEL SECTION B-B (SHEET C7.1)
NO SCALE

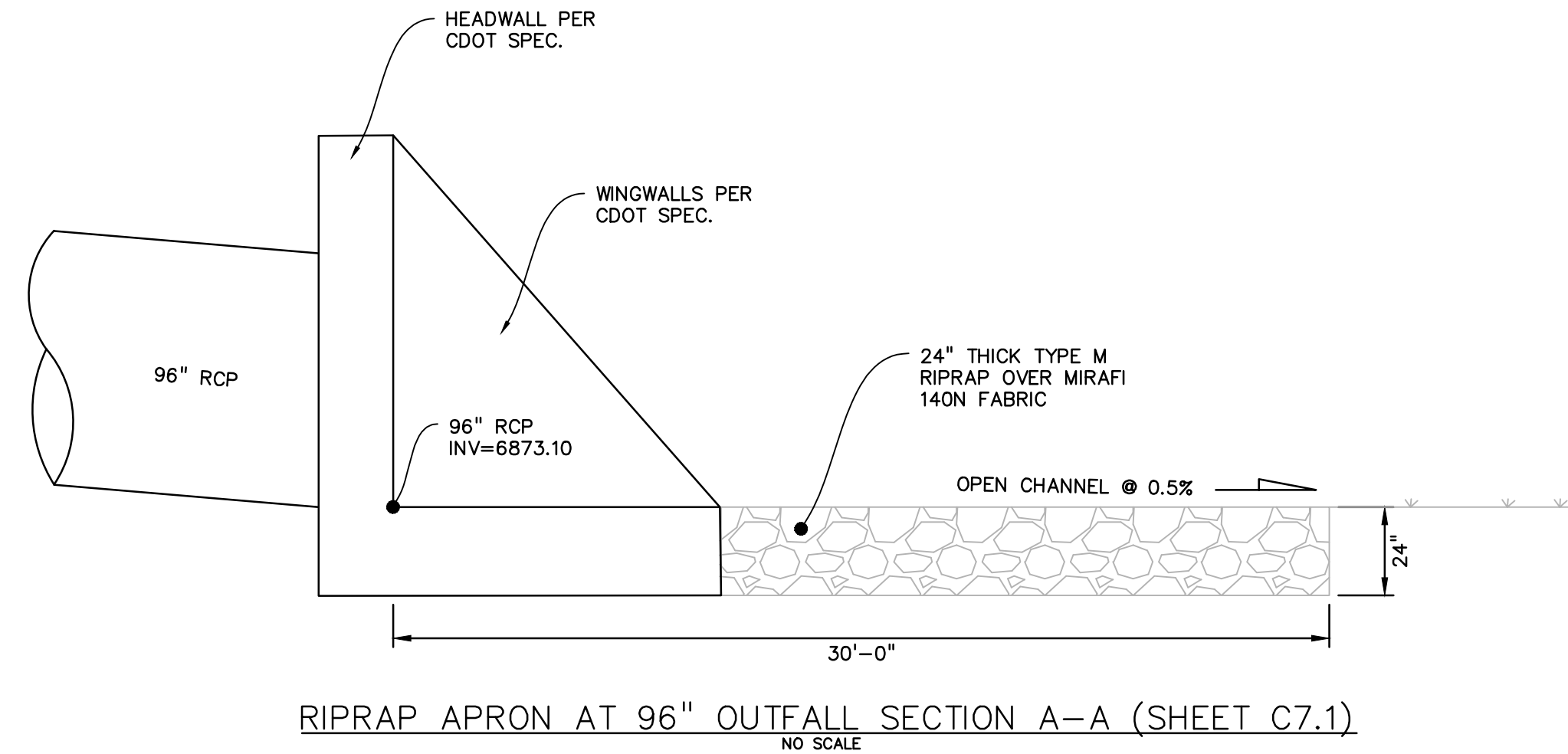


HEADWALL & WINGWALL DETAIL
NO SCALE



CHECK DAM SECTION C-C (SHEET C7.1)
NO SCALE

CHECK DAM SECTION A-A (at left)
NO SCALE



RIPRAP APRON AT 96" OUTFALL SECTION A-A (SHEET C7.1)
NO SCALE

Is 10' enough for velocity/depth?

GENERAL NOTES

- CONCRETE SHALL BE CLASS II.
- HEADWALL SHALL BE PERPENDICULAR TO THE PIPE UNLESS OTHERWISE SHOWN IN THE SHEET. RELATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
- FOR MINORIAL DETAILS, SEE STANDARD PLAN M-601-10.
- VOLUME QUANTITIES BY PIPE SIZE HAS BEEN DERIVED FROM STEEL AND CONCRETE QUANTITIES.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4" IN.
- ALL REINFORCING BARS SHALL HAVE A 2" MINIMUM CLEARANCE.
- WHERE TWO OR MORE PIPES ARE Laid SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE IN THEIR QUARTER APART. 1/4" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN PIPES. THICKNESS, WHEREVER IS LESS.
- ADD 60% IN CASE OF 1/4" MINIMUM CLEARANCE IS REQUIRED.

HEADWALL FOR SINGLE PIPE

HEADWALL FOR DOUBLE PIPE

HEADWALL FOR RIGID ROUND PIPE

HEADWALL FOR FLEXIBLE PIPE ARCH

HEADWALL FOR STRUCTURAL PLATE ARCH

SKREW FACTOR TABLE

SKREW ANGLE #1	90	85	80	75	70	65	60	55	50	45	40	35	30
FACTORS	1.000	1.004	1.015	1.035	1.064	1.103	1.155	1.221	1.300	1.414	1.566	1.743	2.000

Computer File Information

Creation Date: 07/04/12
Last Modification Date: 07/04/12
Drawing File Name: 601000001.dwg
CAD Ver: MicroStation V8
Scale: Not to Scale
Units: English

Sheet Revisions

Date	Comments

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-8687
Fax: (303) 757-8630
Project Development Branch DD/LTA

HEADWALL FOR PIPES
STANDARD PLAN NO. M-601-10
Sheet No. 1 of 1

GENERAL NOTES

- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4" IN.
- MINORIAL FOOTINGS AND FLOOR OF BOX CULVERTS SHALL BE PLACED MONOLITHICALLY.
- CONCRETE FOR TOP FLOOR SHALL BE 1/4" MIN. AND REINFORCING FOR MINORIALS SHALL BE AS SHOWN ON THE PLANS.
- REINFORCING STEEL SHALL BE GRADE 60.
- THE MINIMUM SPICE LENGTH FOR COMMON BAR SIZES SHALL BE:

BAR	#1	#2	#3	#4	#5	#6
SPICE LENGTH	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"

DESIGN TABLE

DESIGN FOR	DESIGN FOOTING LINE	CONSTRUCTION FOOTING LINE	DESIGN EXAMPLE
USE DESIGN FOR	1'-0"	1'-0"	1'-0"

QUANTITIES FOR THE WALL ONLY

CONCRETE CLASS II (CU)	STEEL #4 (LBS)	STEEL #5 (LBS)	STEEL #6 (LBS)
95	84	102	120
78	85	103	121
66	86	104	122
56	87	105	123
48	88	106	124
41	89	107	125
35	90	108	126
30	91	109	127
26	92	110	128
22	93	111	129
19	94	112	130
16	95	113	131
14	96	114	132
12	97	115	133
10	98	116	134
9	99	117	135
8	100	118	136

Computer File Information

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Project Development Branch DD/LTA

WINGWALLS FOR PIPE OR BOX CULVERTS
STANDARD PLAN NO. M-601-20
Sheet No. 1 of 1

PREPARED BY:

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OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR
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FALCON, COLORADO

ISSUE	DATE
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DRAWN BY: KGV
CHECKED BY: TDM
FILE NAME:

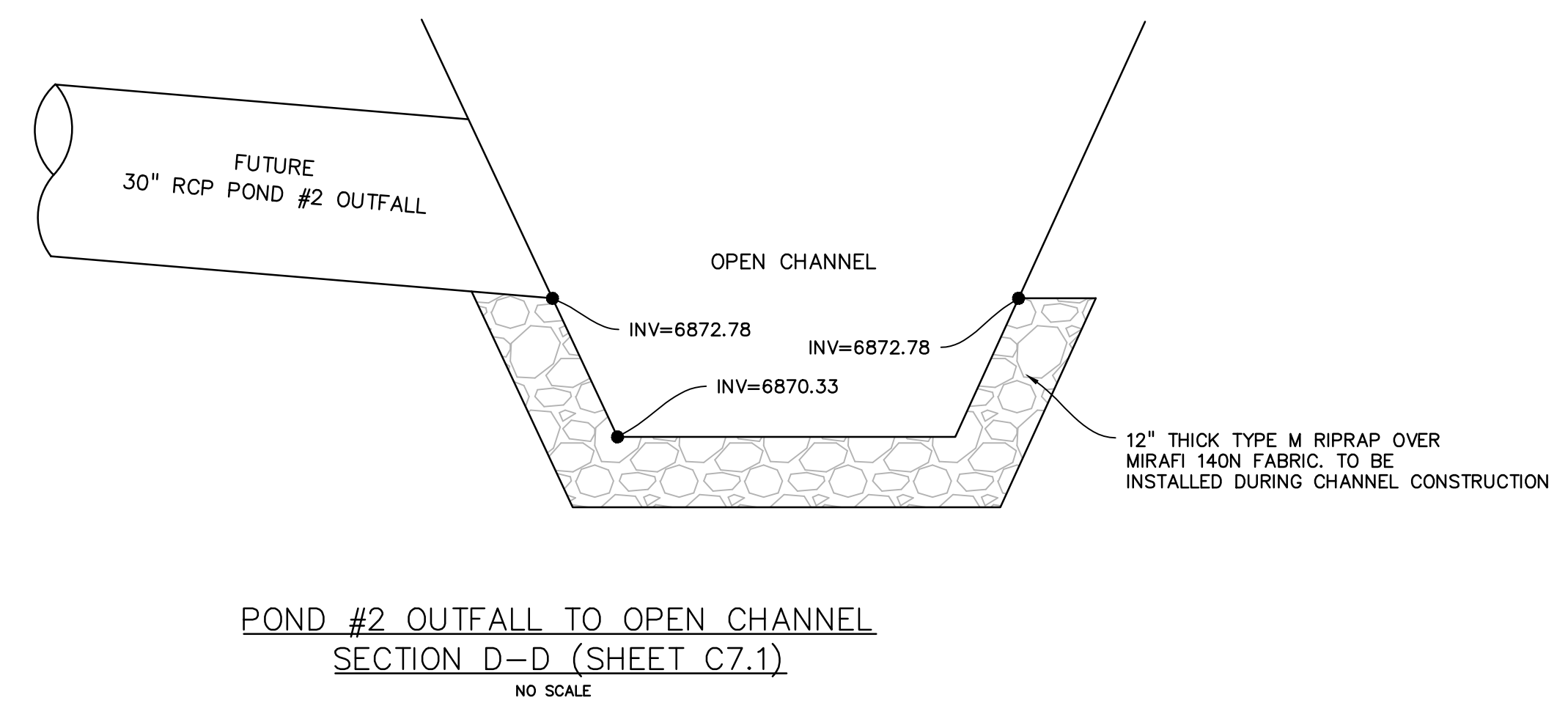
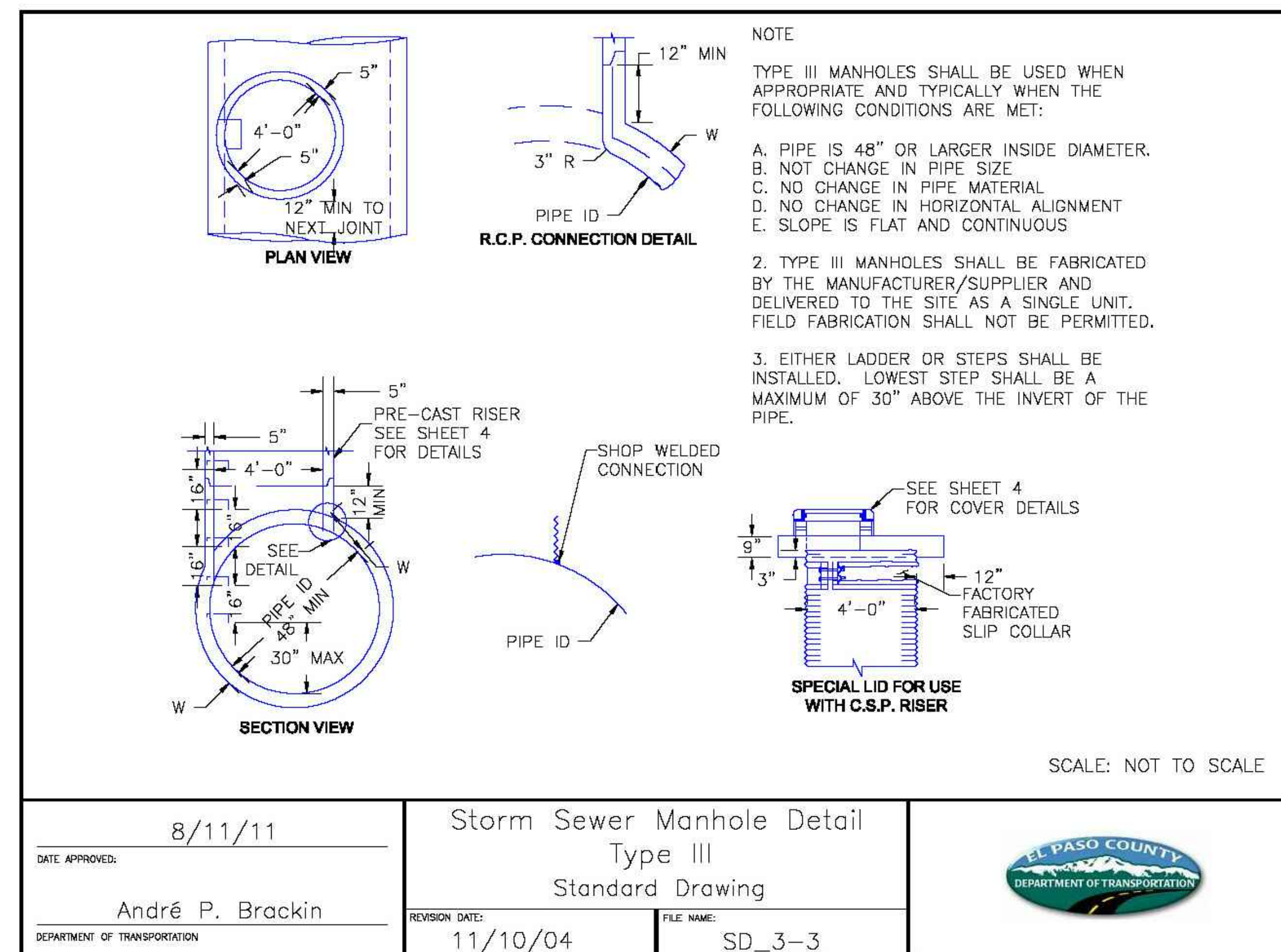
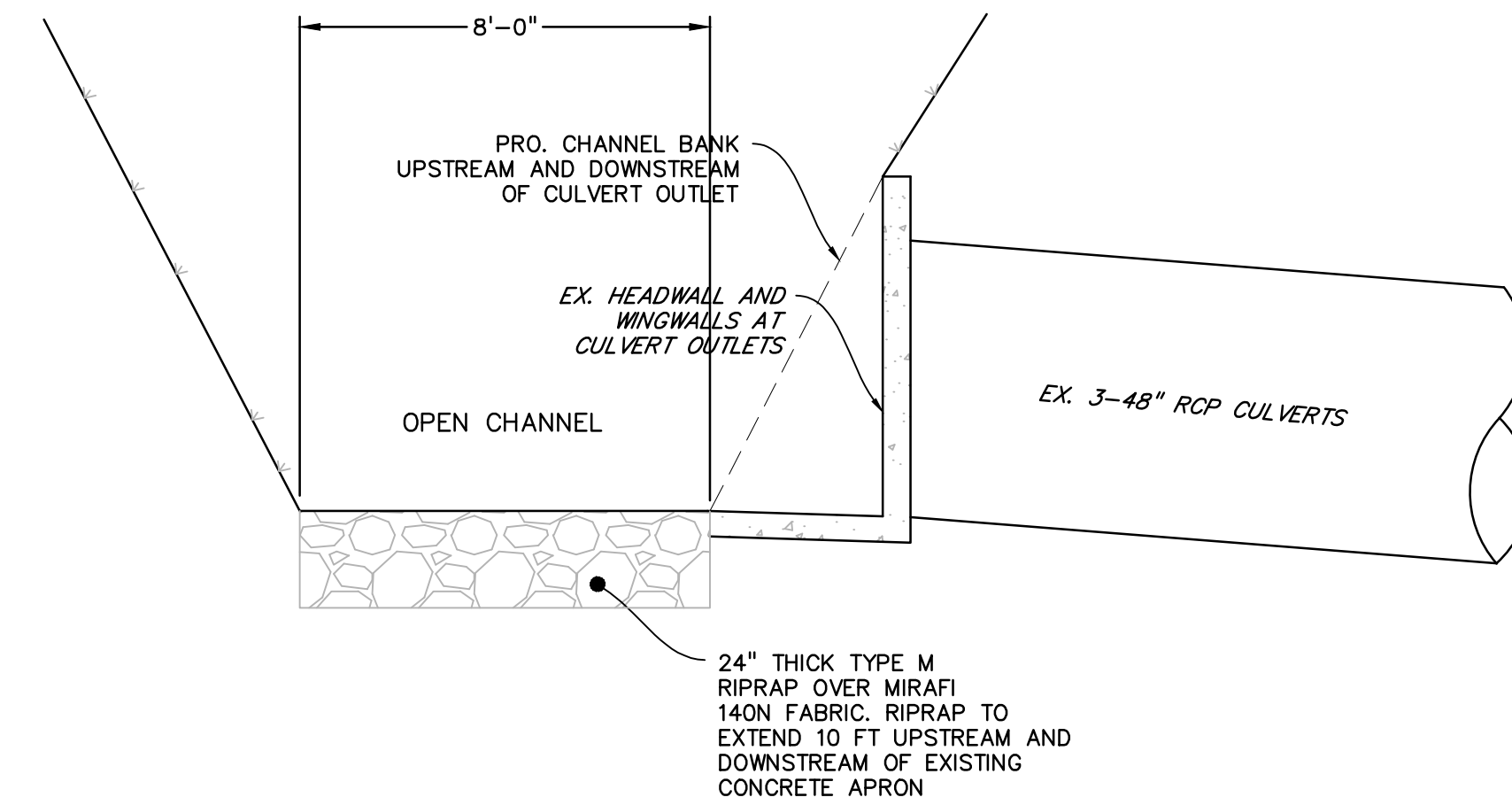
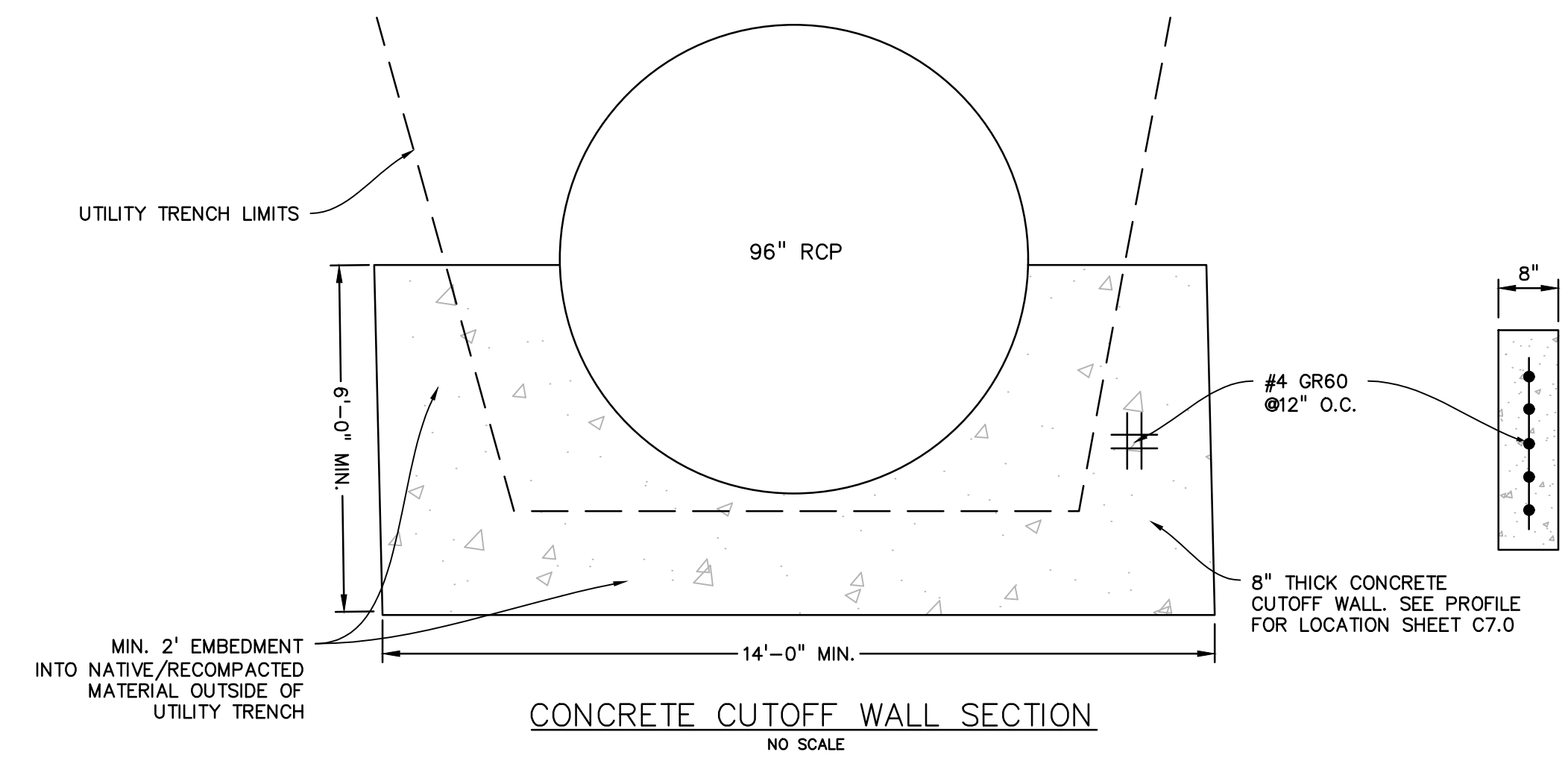
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

OPEN CHANNEL DETAILS

PROJECT NO. 20988-00CSV
DRAWING NO.

C7.6



PREPARED BY:

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OVERLOT GRADING, POND SR4 & UTILITY
CONSTRUCTION DRAWINGS FOR

FALCON
MARKETPLACE
FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	TDM
DRAWN BY:	KGW
CHECKED BY:	TDM
FILE NAME:	

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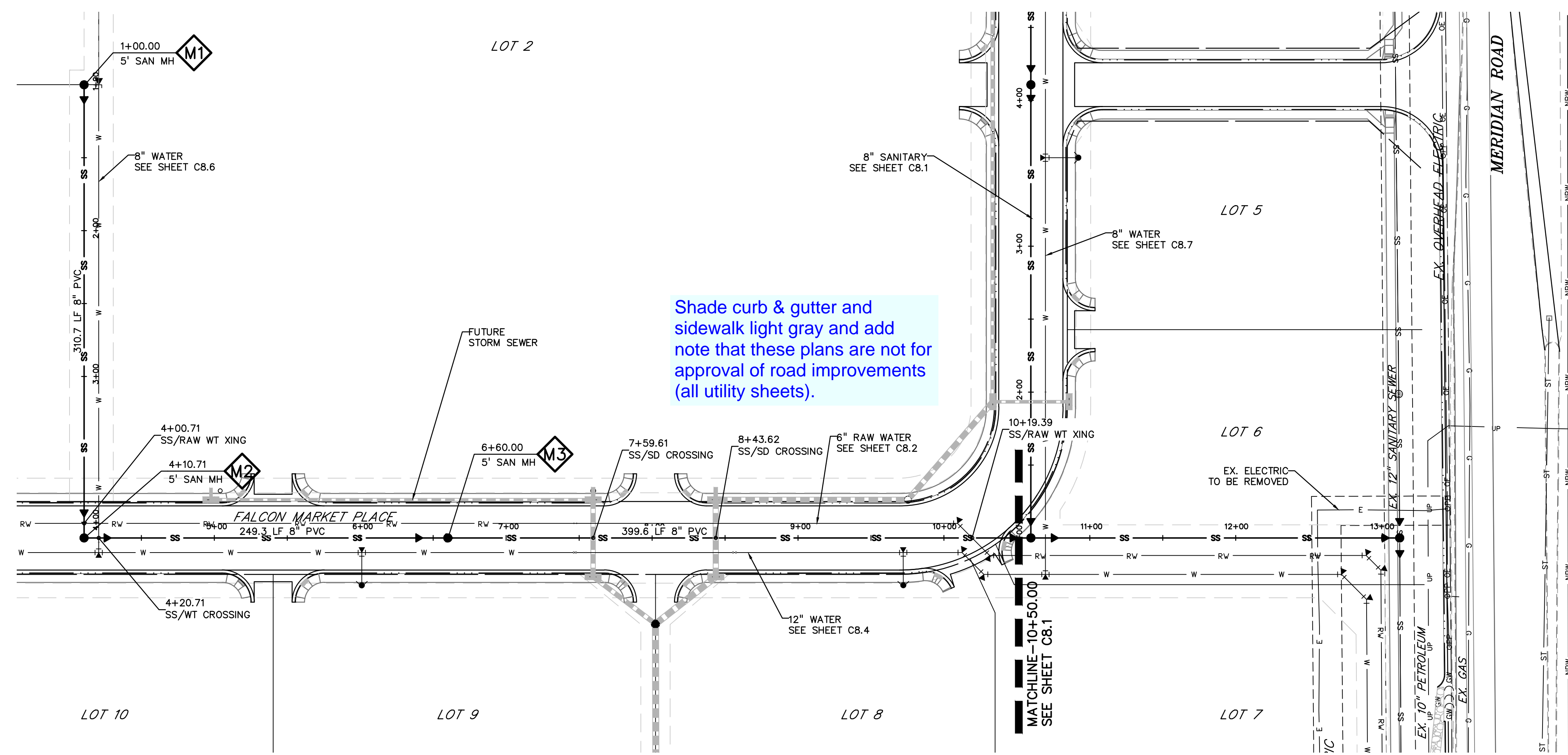
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VERTICAL: N/A

STORM SEWER
DETAILS

PROJECT NO. 20988-00CSCV
DRAWING NO.

C7.7

SHEET: 14 OF 27



LEGEND

- PROPERTY LINE
- LOT LINE
- EASEMENT
- CURB & GUTTER
- SIDEWALK
- PRO. WATER LINE
- PRO. FIRE HYDRANT
- PRO. RAW WATER
- PRO. SANITARY SEWER
- PRO. STORM SEWER
- EX. OVERHEAD ELECTRIC
- EX. SANITARY SEWER
- EX. PETROLEUM
- EX. GAS
- EX. RAW WATER
- EX. WATER
- EX. STORM SEWER

SCALE: 1"=50'

KEY MAP
NTS

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OVERLOT GRADING, POND, SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
**FALCON
 MARKETPLACE**
 FALCON, COLORADO

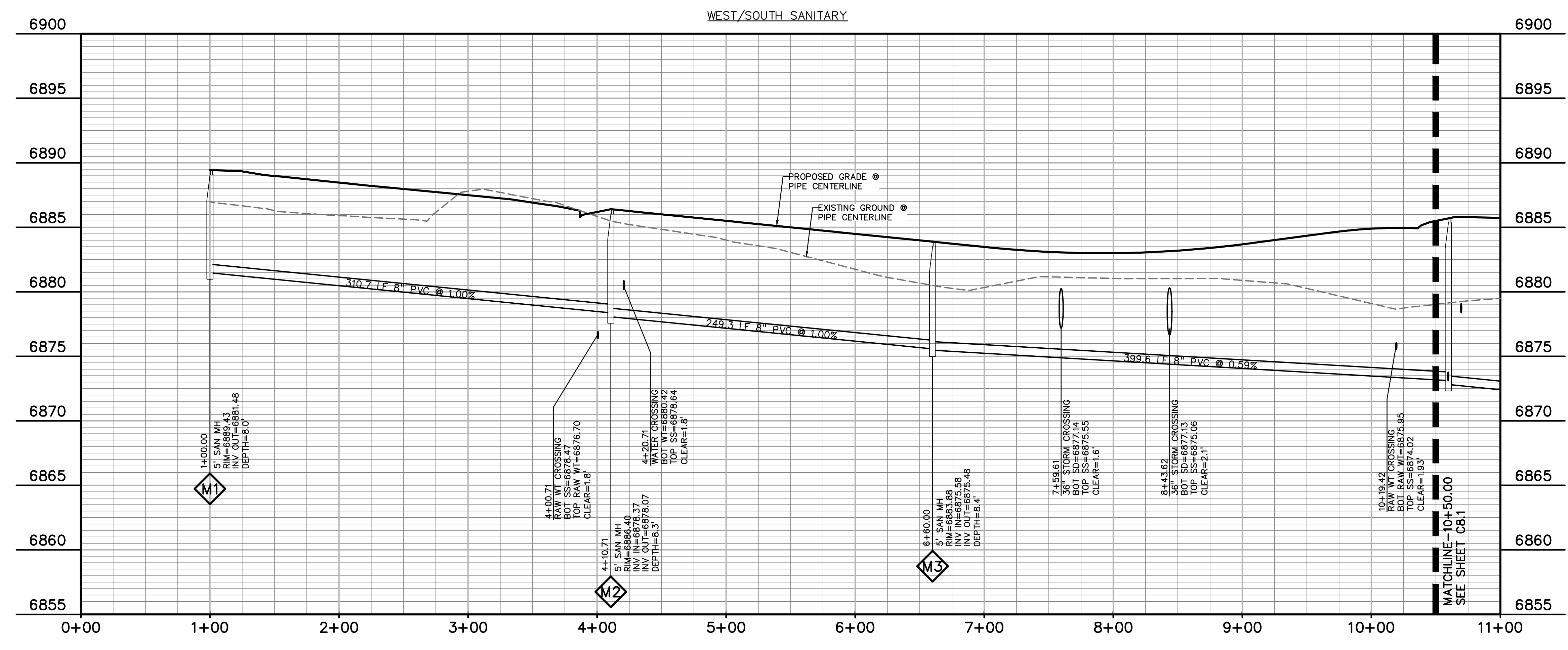
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RESUBMITTAL	6-18-18
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DRAWN BY:	SBN
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FILE NAME:	

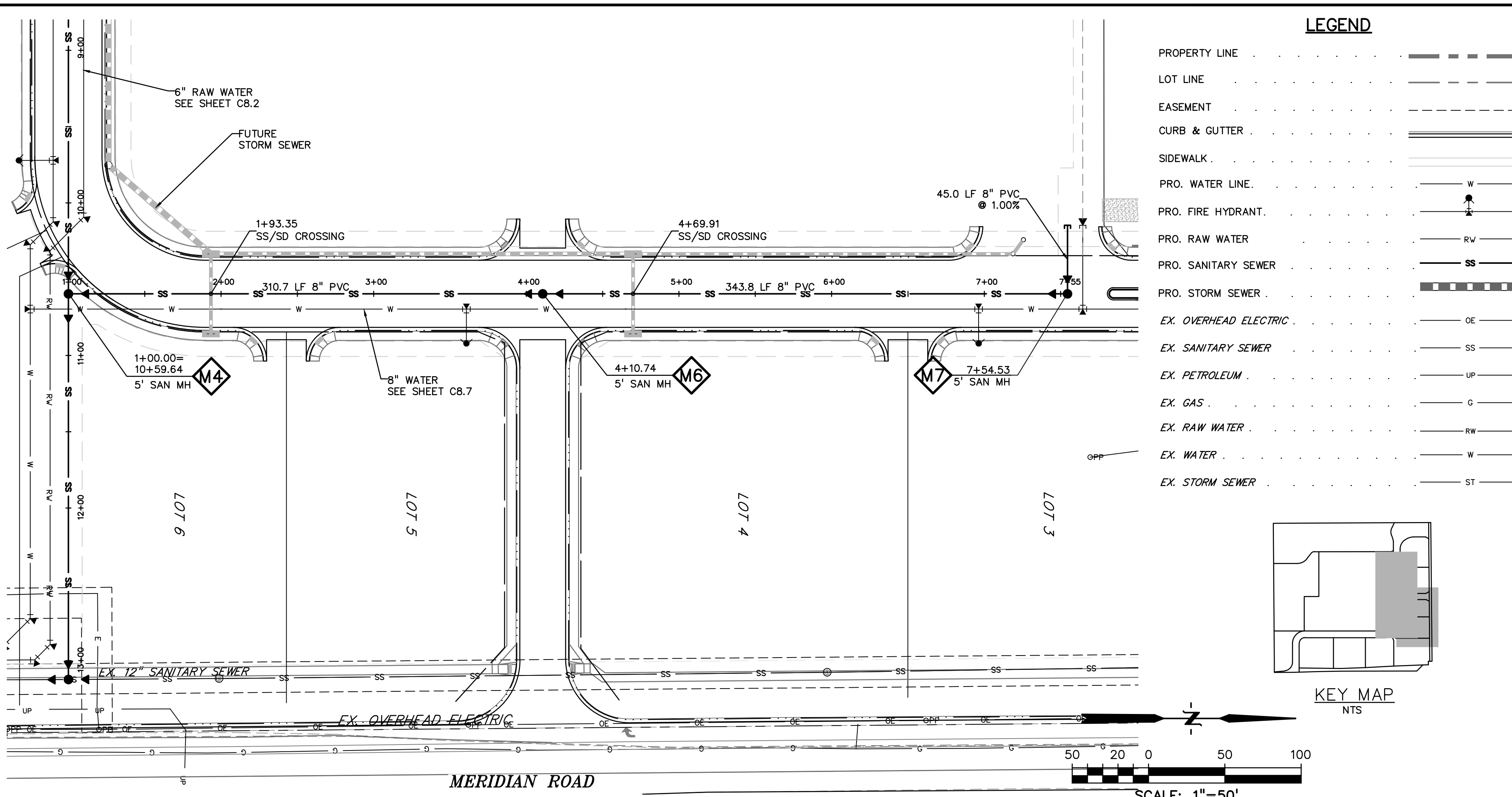
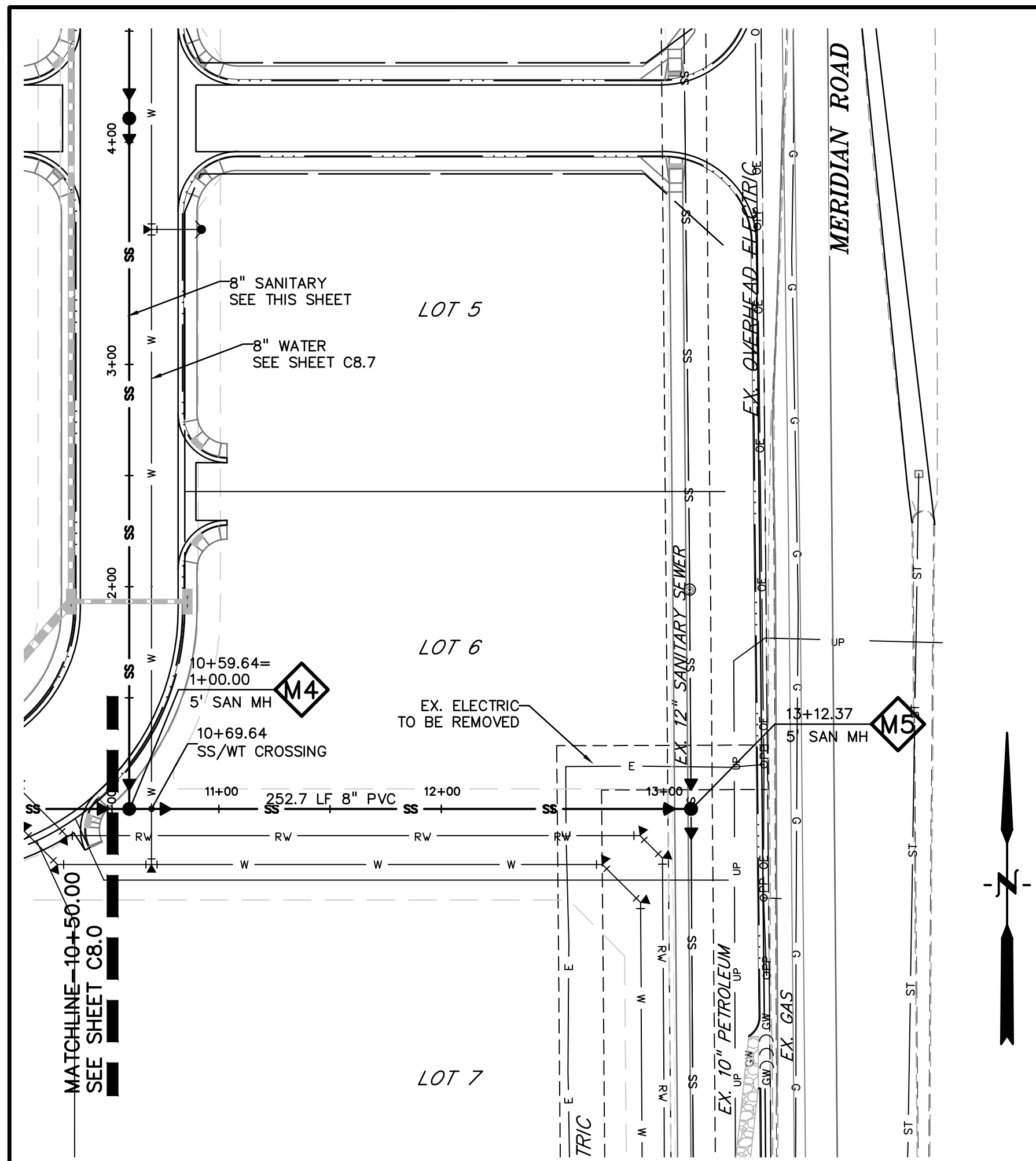
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 DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

**SANITARY SEWER
 PLAN &
 PROFILE**

PROJECT NO. 20988-00CSCV
 DRAWING NO.

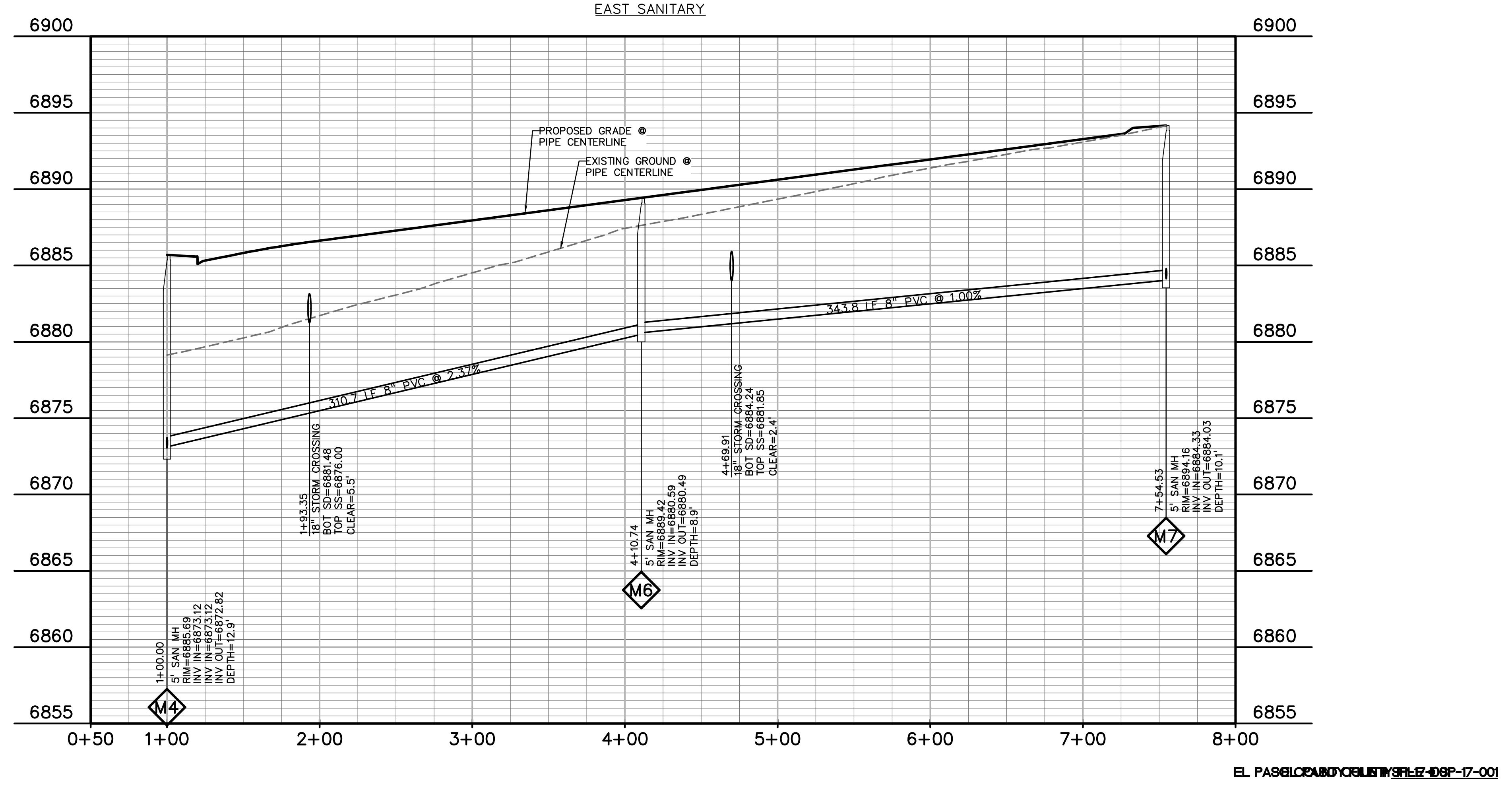
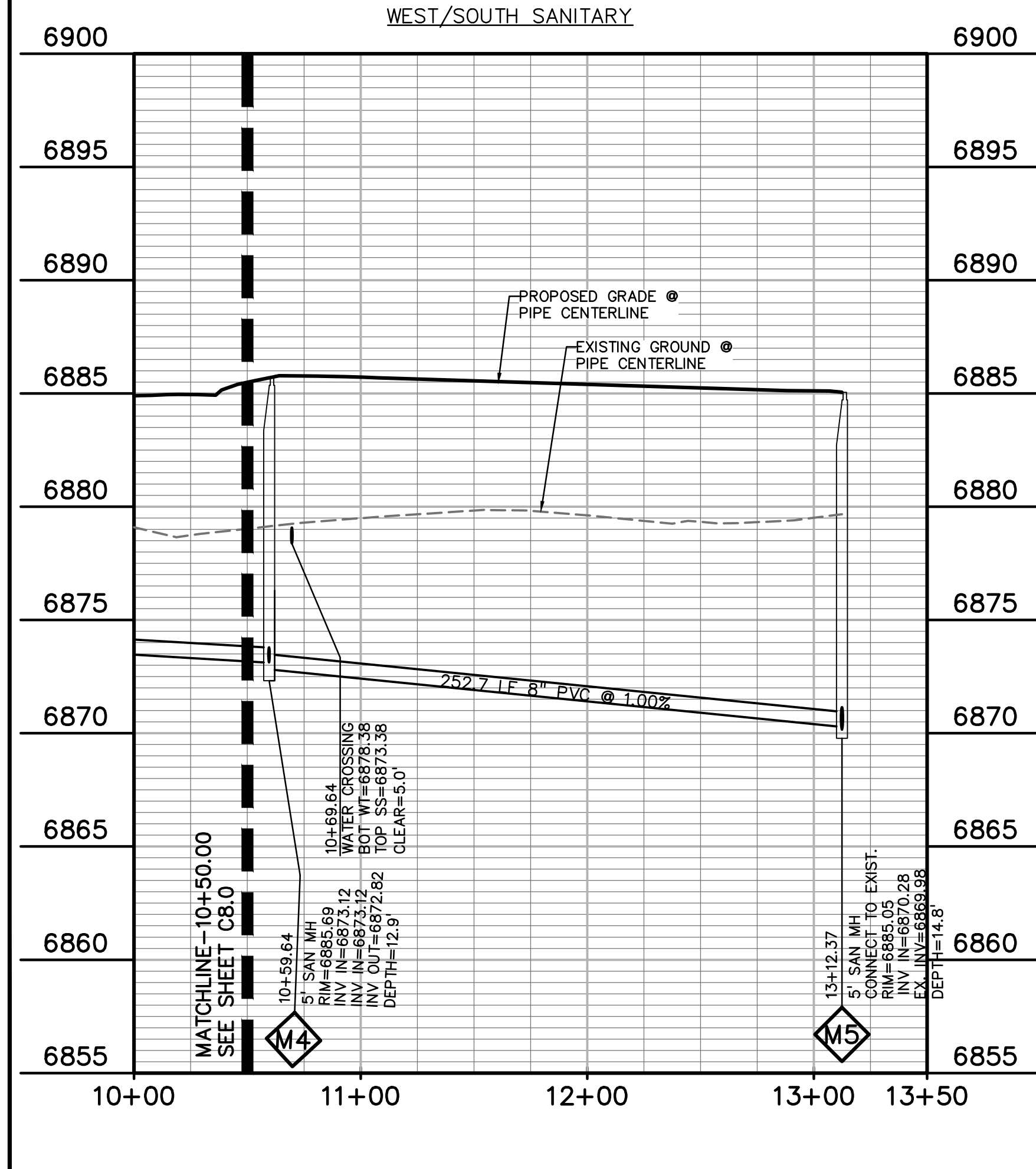
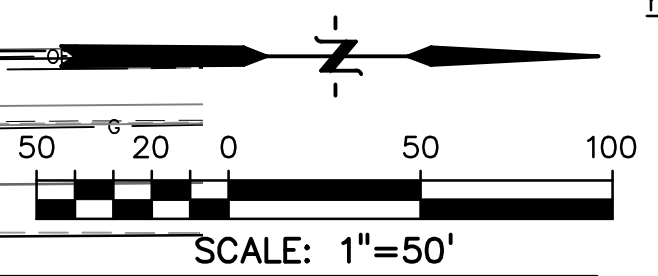
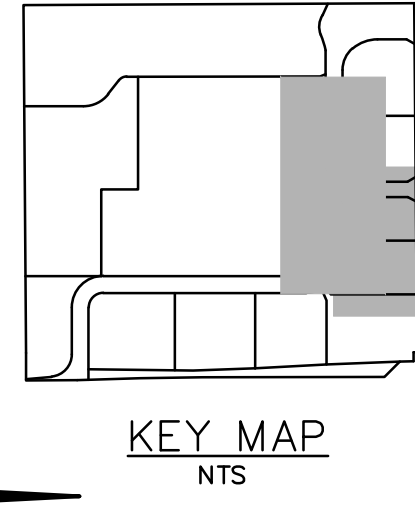
C8.0
 SHEET: 15 OF 27





LEGEND

PROPERTY LINE	---
LOT LINE	- - - -
EASEMENT	---
CURB & GUTTER	====
SIDEWALK	----
PRO. WATER LINE	W
PRO. FIRE HYDRANT	+
PRO. RAW WATER	RW
PRO. SANITARY SEWER	SS
PRO. STORM SEWER	SS
EX. OVERHEAD ELECTRIC	OE
EX. SANITARY SEWER	SS
EX. PETROLEUM	UP
EX. GAS	G
EX. RAW WATER	RW
EX. WATER	W
EX. STORM SEWER	ST



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OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
**FALCON
 MARKETPLACE**
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	

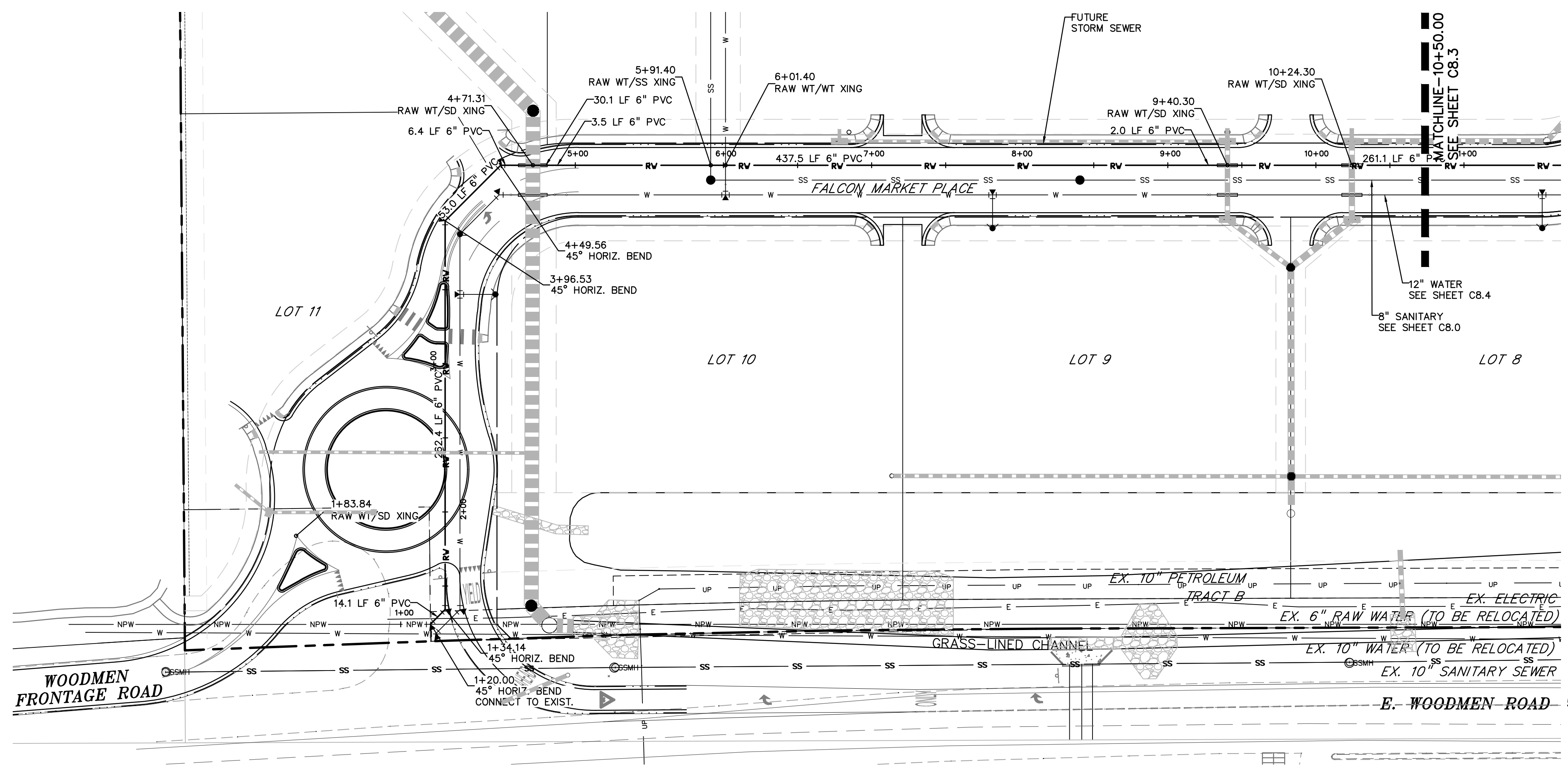
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 OF DREXEL, BARRELL & CO.

DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

SANITARY SEWER
 PLAN &
 PROFILE

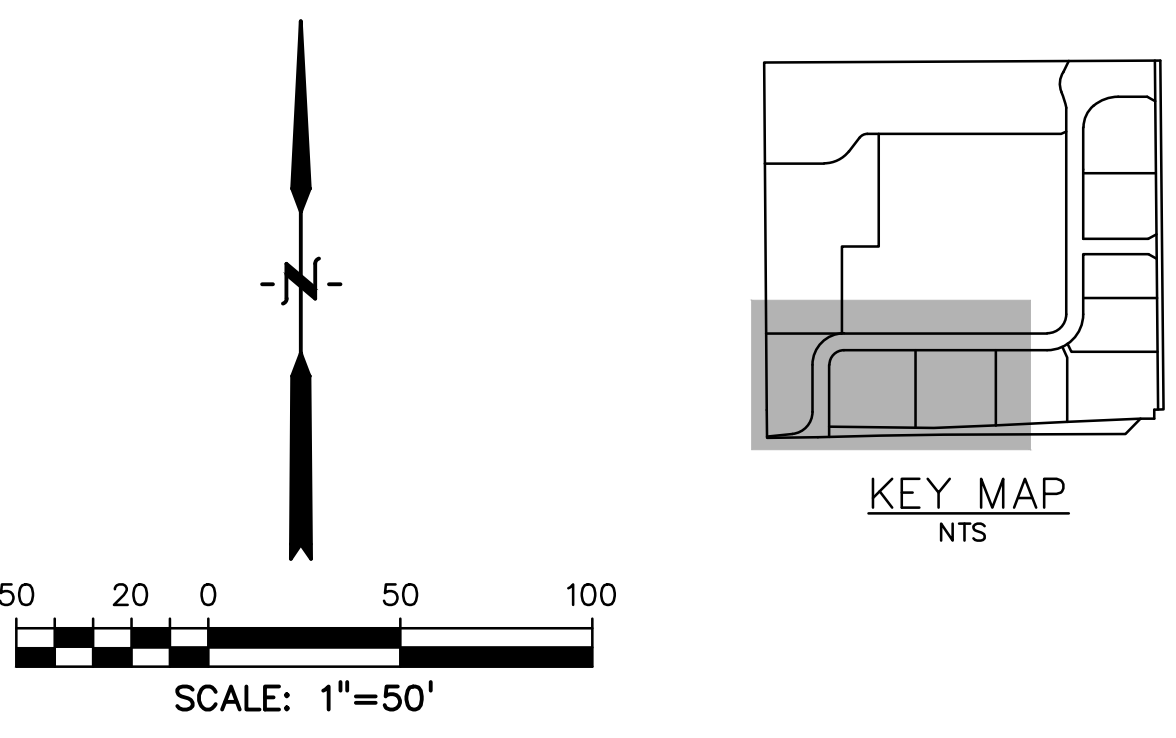
PROJECT NO. 20988--00CSCV
 DRAWING NO.

C8.1
 SHEET: 16 OF 27



LEGEND

PROPERTY LINE	---
LOT LINE	- - -
EASEMENT	---
CURB & GUTTER	---
SIDEWALK	---
PRO. WATER LINE	W
PRO. FIRE HYDRANT	●
PRO. RAW WATER	RV
PRO. SANITARY SEWER	SS
PRO. STORM SEWER	ST
EX. OVERHEAD ELECTRIC	OE
EX. SANITARY SEWER	SS
EX. PETROLEUM	UP
EX. GAS	G
EX. RAW WATER	RW
EX. WATER	W
EX. STORM SEWER	ST



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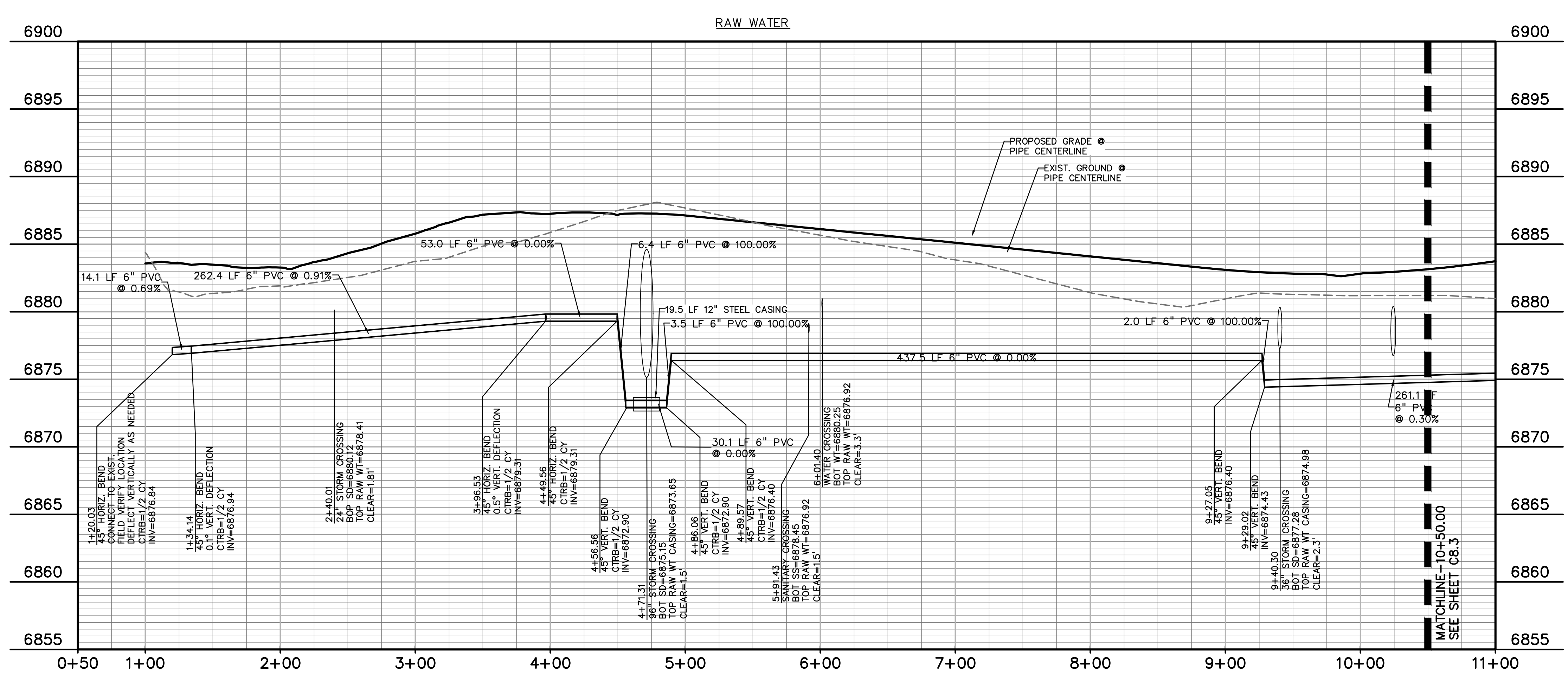
OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

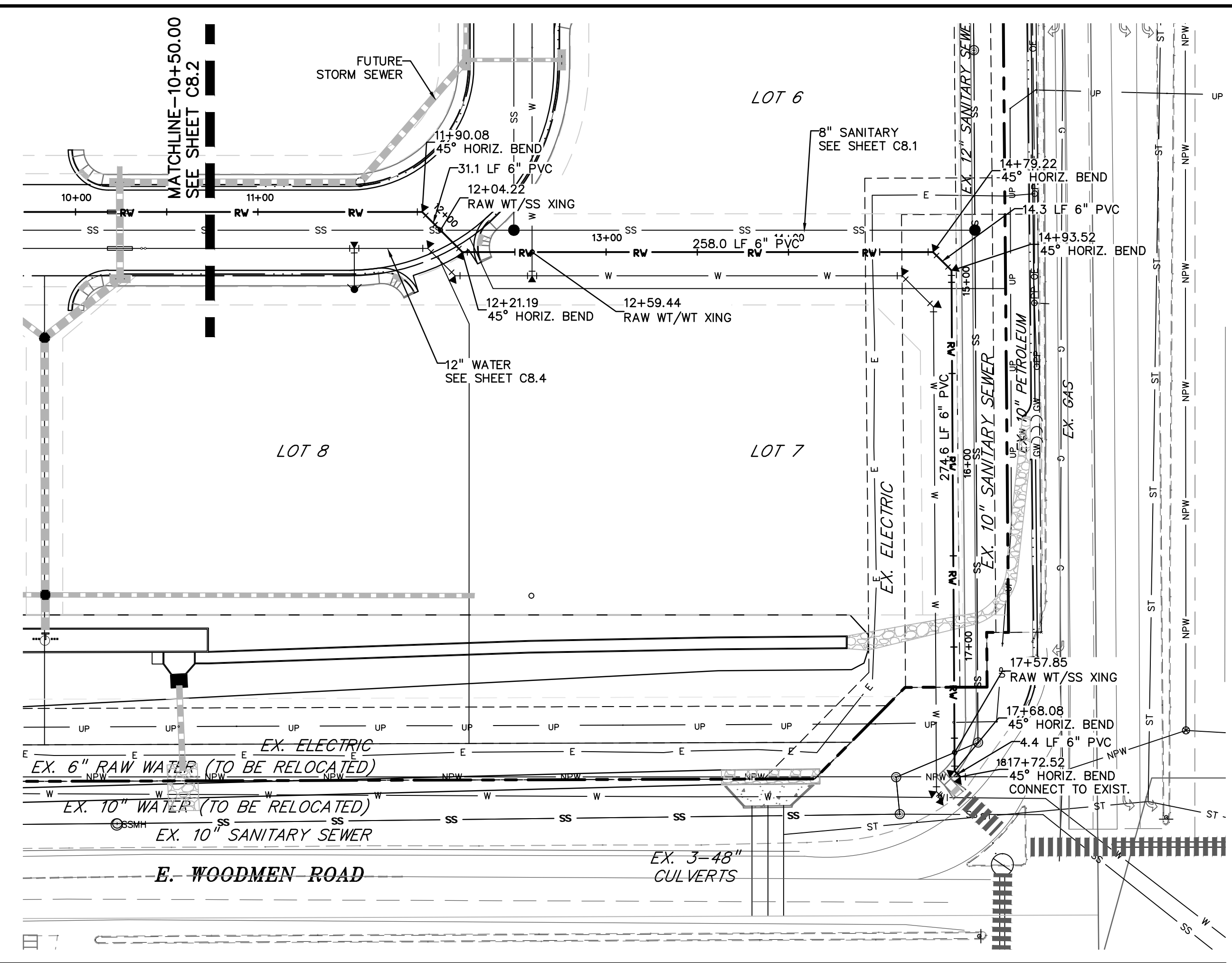
ISSUE	DATE
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FILE NAME:	

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 DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

RAW WATER PLAN & PROFILE
 PROJECT NO. 20988--00CSCV
 DRAWING NO.

C8.2
 SHEET: 17 OF 27



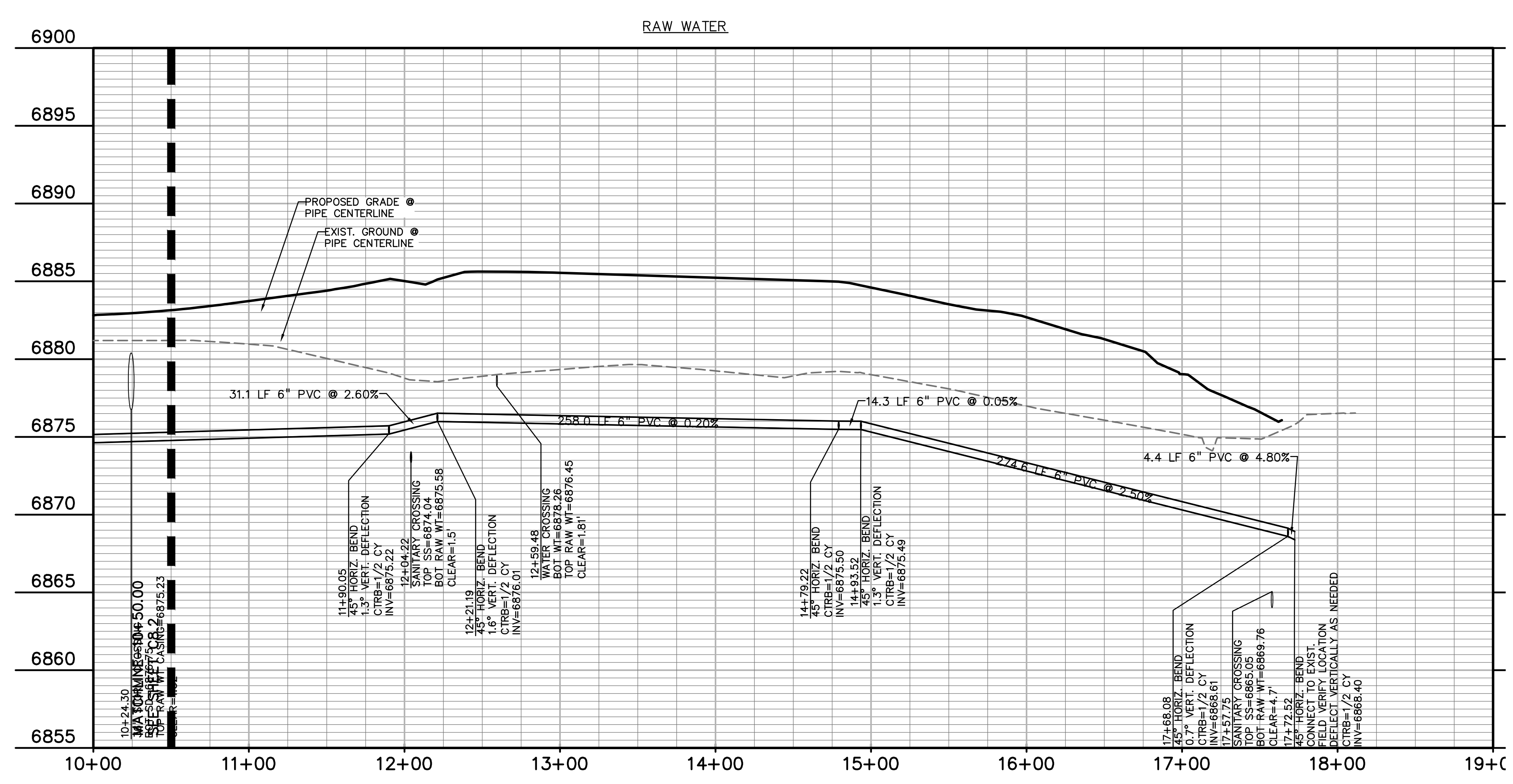


LEGEND

- PROPERTY LINE
- LOT LINE
- EASEMENT
- CURB & GUTTER
- SIDEWALK
- PRO. WATER LINE W
- PRO. FIRE HYDRANT
- PRO. RAW WATER RW
- PRO. SANITARY SEWER SS
- PRO. STORM SEWER
- EX. OVERHEAD ELECTRIC OE
- EX. SANITARY SEWER SS
- EX. PETROLEUM UP
- EX. GAS G
- EX. RAW WATER RW
- EX. WATER W
- EX. STORM SEWER ST

SCALE: 1"=50'

KEY MAP
NTS



PREPARED BY:
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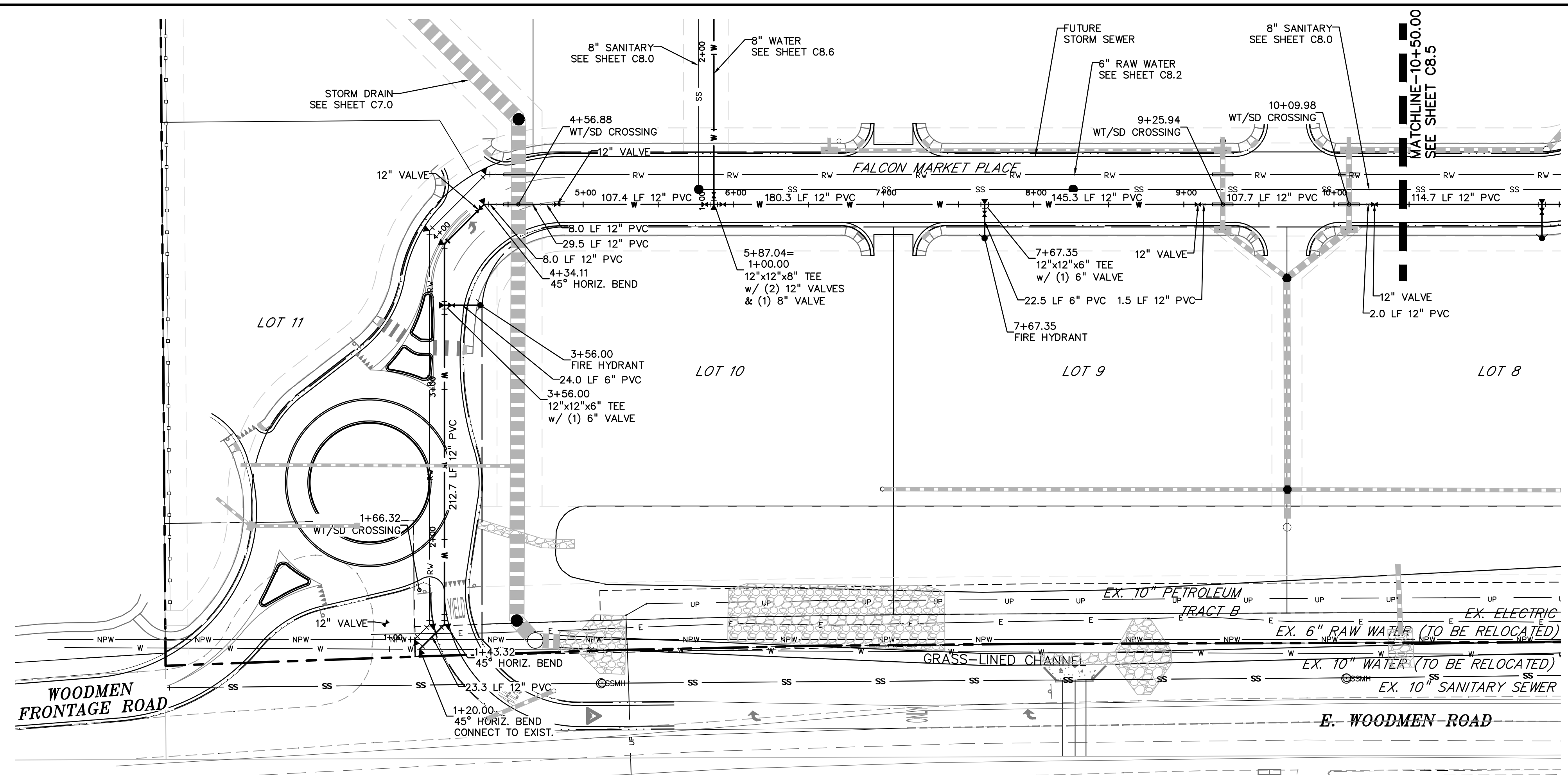
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FALCON, COLORADO

ISSUE	DATE
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DRAWING SCALE:
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**RAW WATER
PLAN & PROFILE**
PROJECT NO. 20988-00CSCV
DRAWING NO.

C8.3
SHEET: 18 OF 27



LEGEND

- PROPERTY LINE
- LOT LINE
- EASEMENT
- CURB & GUTTER
- SIDEWALK
- PRO. WATER LINE
- PRO. FIRE HYDRANT
- PRO. RAW WATER
- PRO. SANITARY SEWER
- PRO. STORM SEWER
- EX. OVERHEAD ELECTRIC
- EX. SANITARY SEWER
- EX. PETROLEUM
- EX. GAS
- EX. RAW WATER
- EX. WATER
- EX. STORM SEWER

SCALE: 1"=50'

KEY MAP NTS

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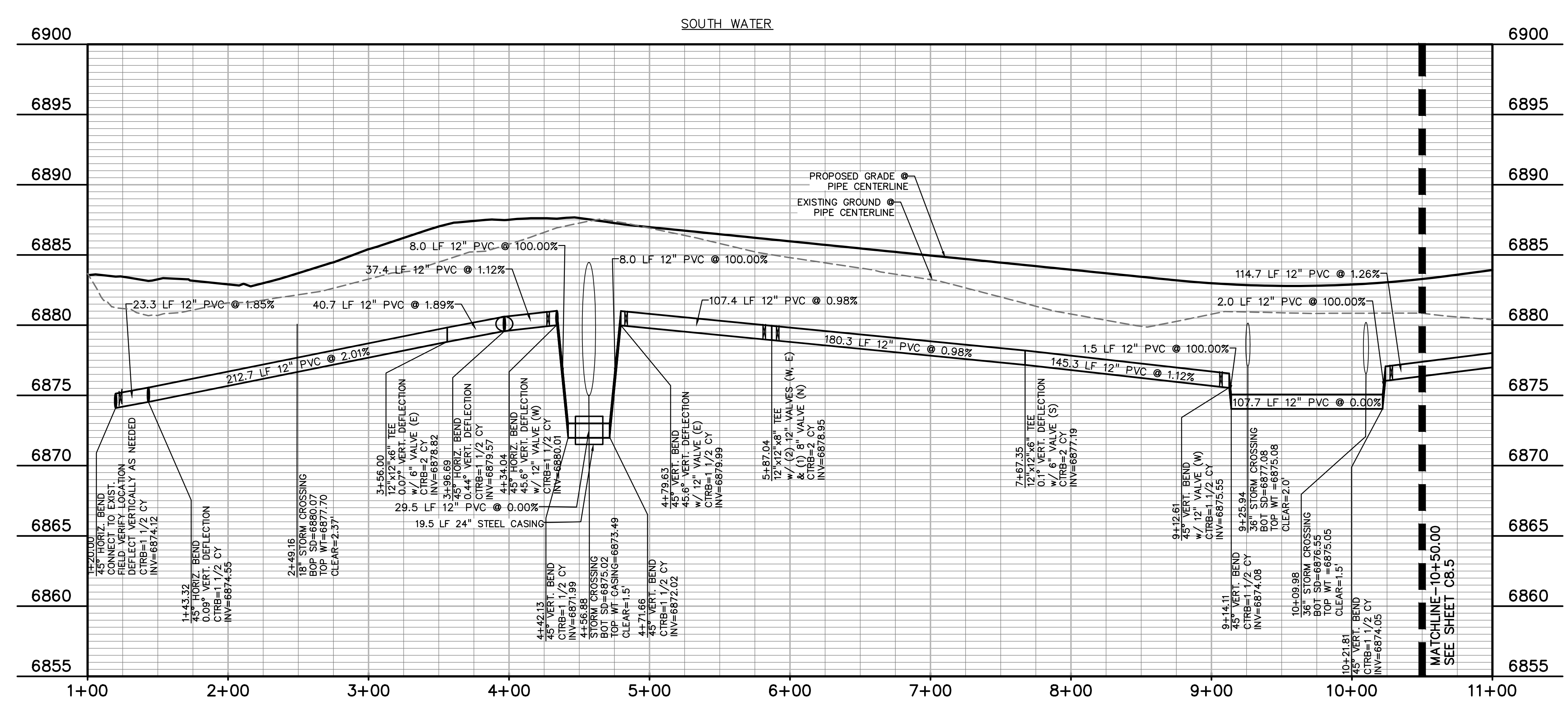
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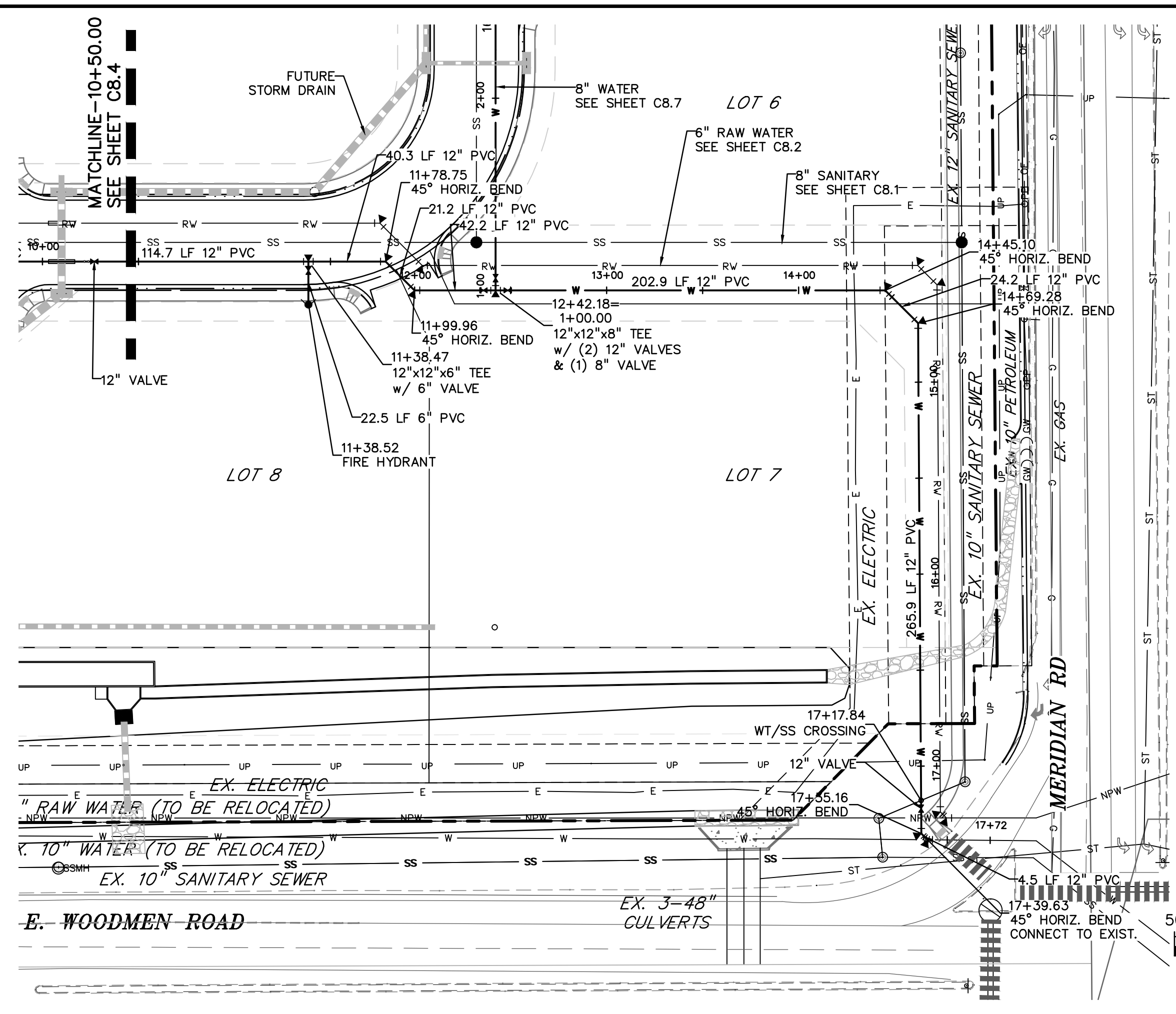
**WATER
 PLAN & PROFILE**

PROJECT NO. 20988-00CSCV
 DRAWING NO.

C8.4

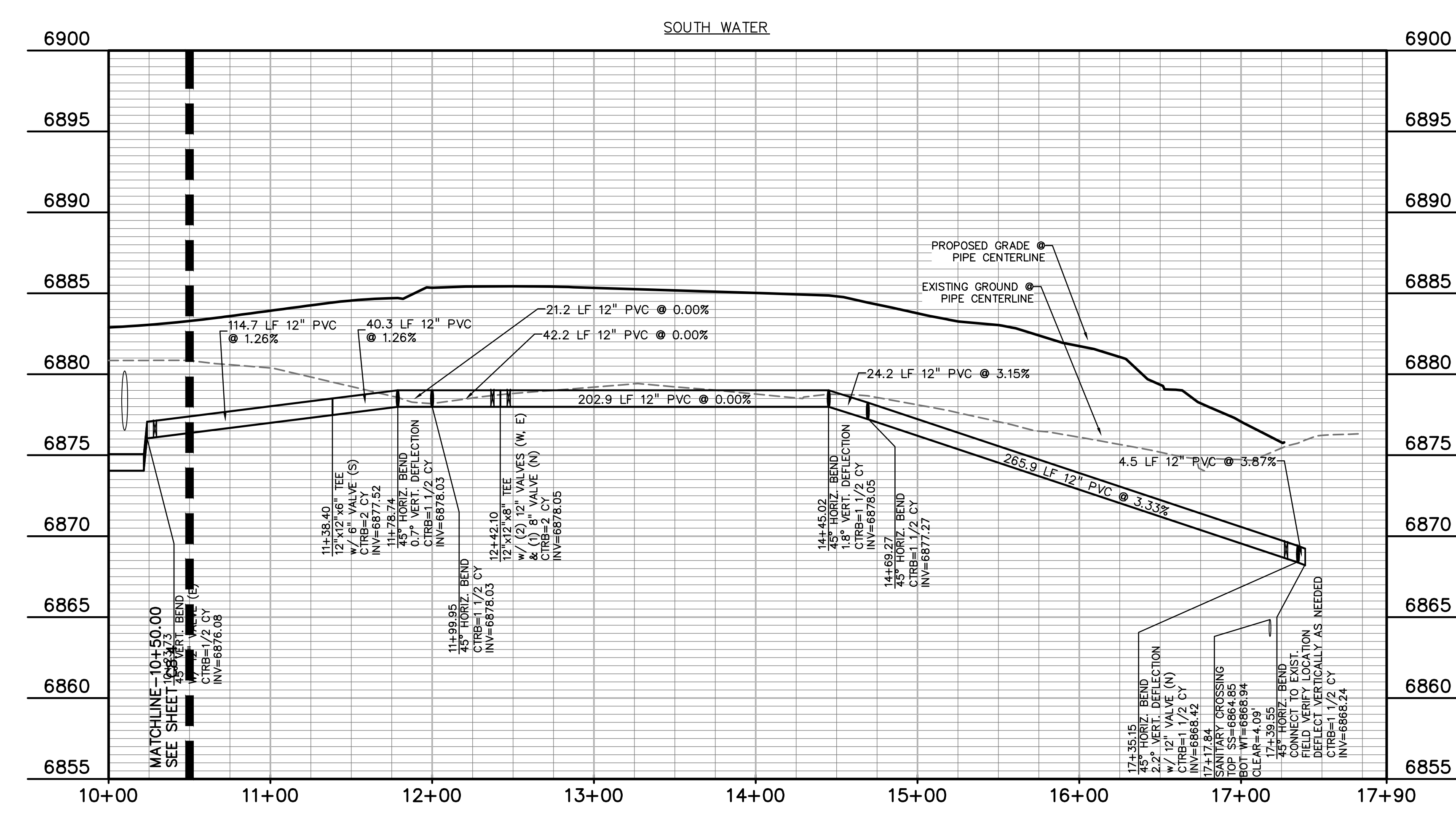
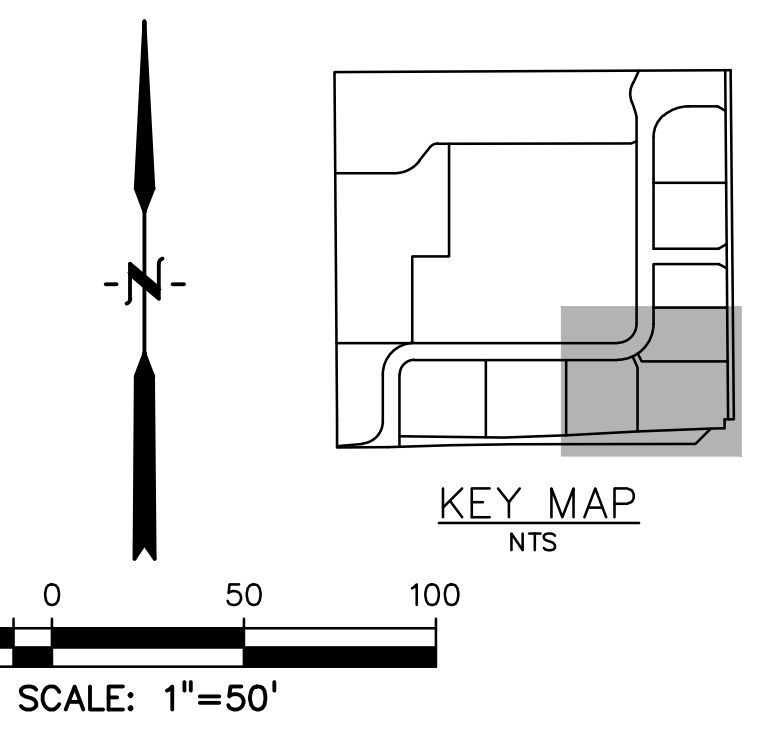
SHEET: 19 OF 27





LEGEND

PROPERTY LINE	---
LOT LINE	- - - -
EASEMENT	---
CURB & GUTTER	====
SIDEWALK	---
PRO. WATER LINE	W
PRO. FIRE HYDRANT	●
PRO. RAW WATER	RW
PRO. SANITARY SEWER	SS
PRO. STORM SEWER	ST
EX. OVERHEAD ELECTRIC	OE
EX. SANITARY SEWER	SS
EX. PETROLEUM	UP
EX. GAS	G
EX. RAW WATER	RW
EX. WATER	W
EX. STORM SEWER	ST



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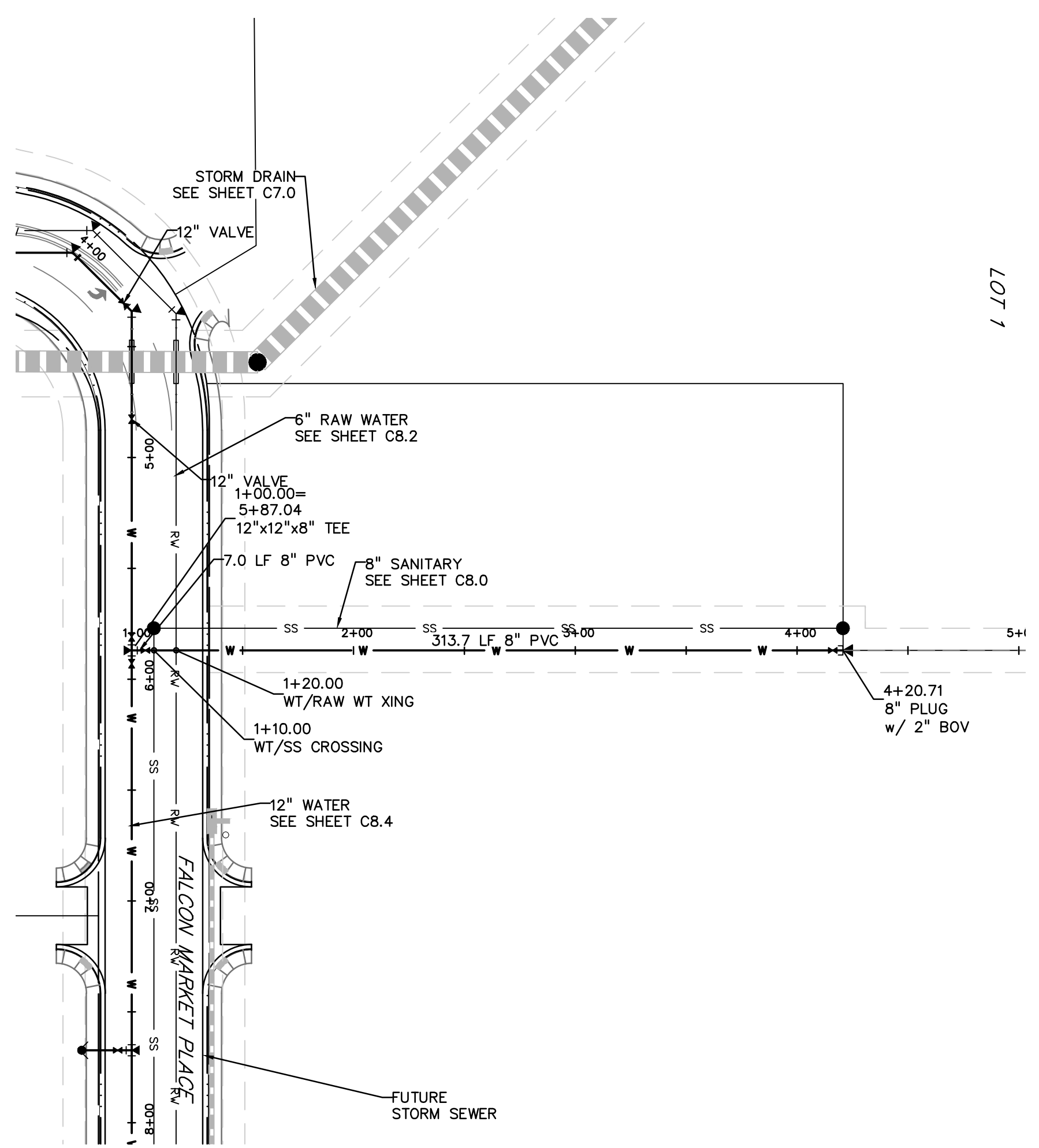
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MARKETPLACE**
FALCON, COLORADO

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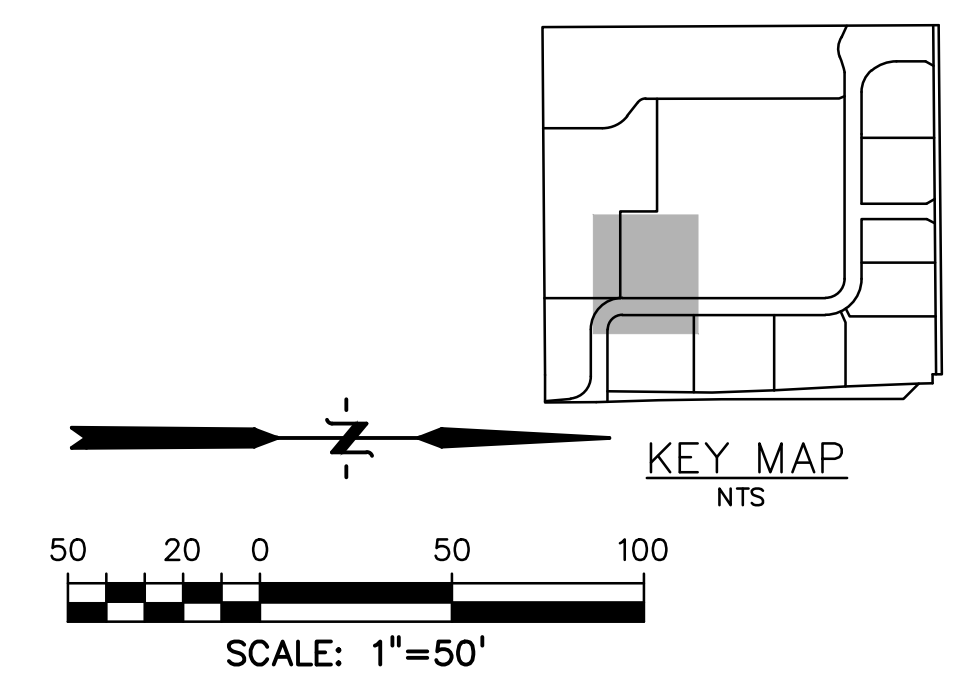
**WATER
PLAN & PROFILE**
PROJECT NO. 20988-00CSCV
DRAWING NO.

C8.5
SHEET: 20 OF 27



LEGEND

PROPERTY LINE	---
LOT LINE	---
EASEMENT	---
CURB & GUTTER	---
SIDEWALK	---
PRO. WATER LINE	W
PRO. FIRE HYDRANT	+
PRO. RAW WATER	RW
PRO. SANITARY SEWER	SS
PRO. STORM SEWER	---
EX. OVERHEAD ELECTRIC	OE
EX. SANITARY SEWER	SS
EX. PETROLEUM	UP
EX. GAS	G
EX. RAW WATER	RW
EX. WATER	W
EX. STORM SEWER	ST



PREPARED BY:

DREXEL, BARRELL & CO.
 Engineers-Surveyors
 3 SOUTH 7TH STREET
 COLORADO SPGS, COLORADO 80905
 CONTACT: TIM D. McCONNELL, P.E.
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CLIENT:
HUMMEL INVESTMENTS, LLC
 8117 PRESTON ROAD, SUITE 120
 DALLAS, TEXAS 75225
 (214) 416-9820

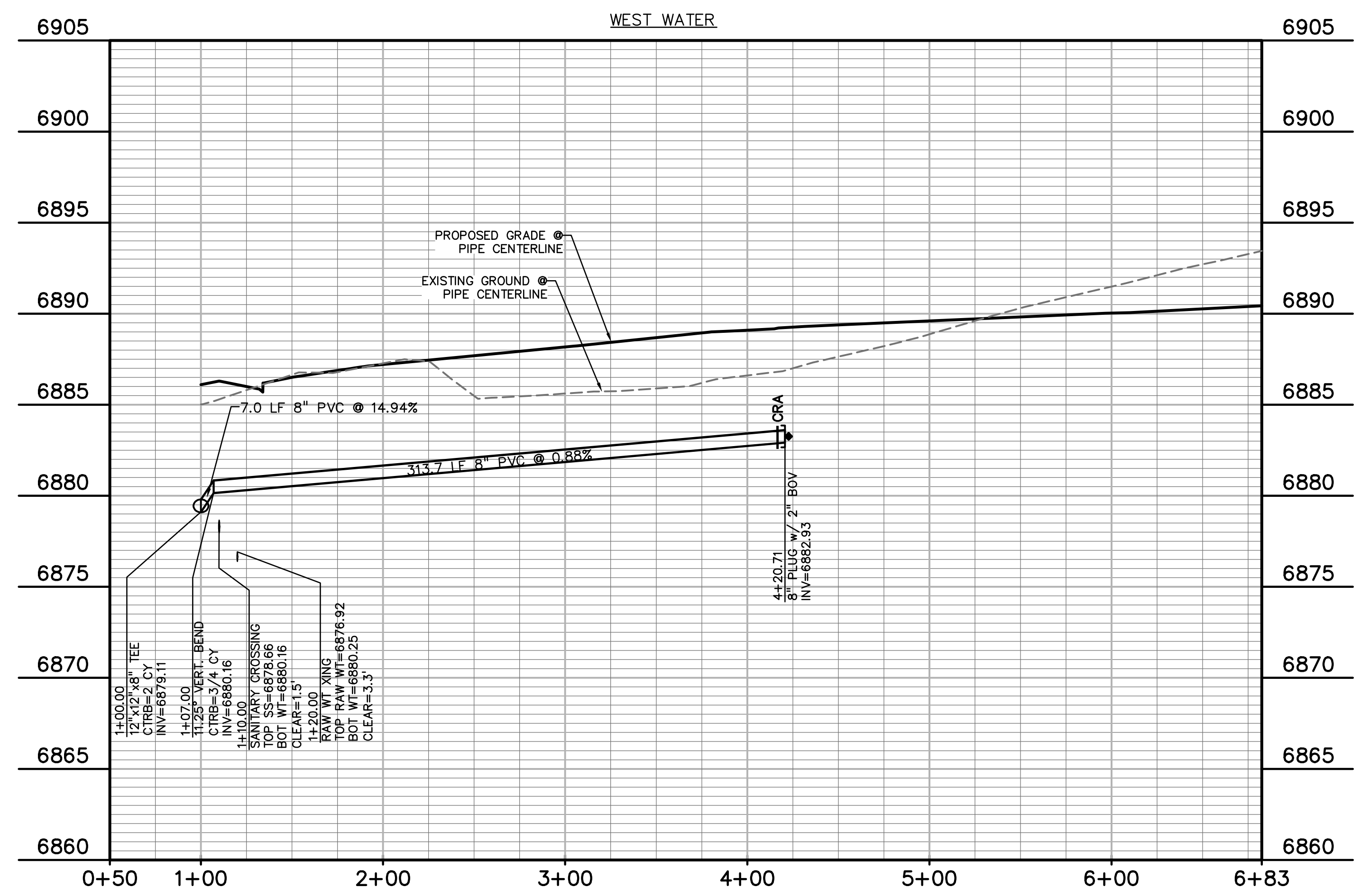
OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

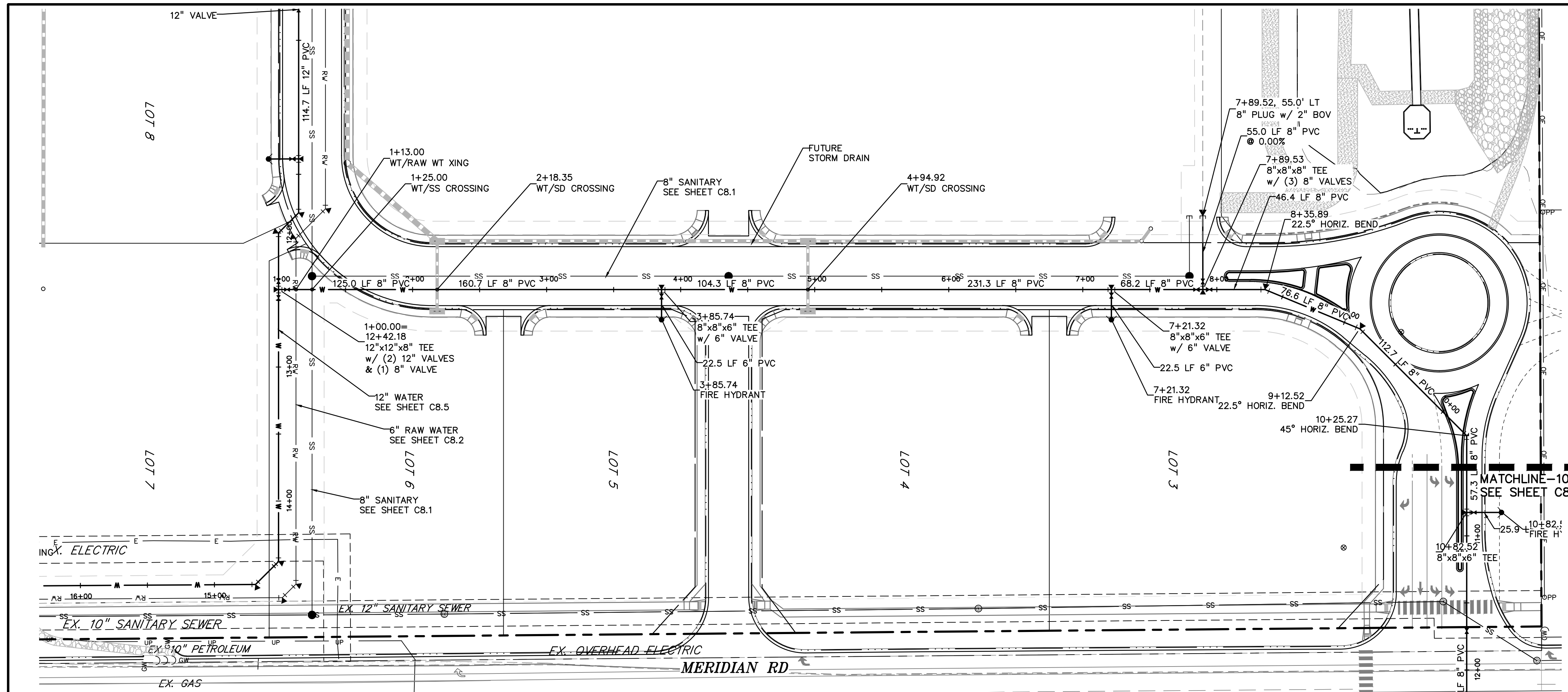
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1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	

PREPARED UNDER MY DIRECT
 SUPERVISION FOR AND ON BEHALF
 OF DREXEL, BARRELL & CO.
 DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

**WATER
 PLAN & PROFILE**
 PROJECT NO. 20988-00CSCV
 DRAWING NO.

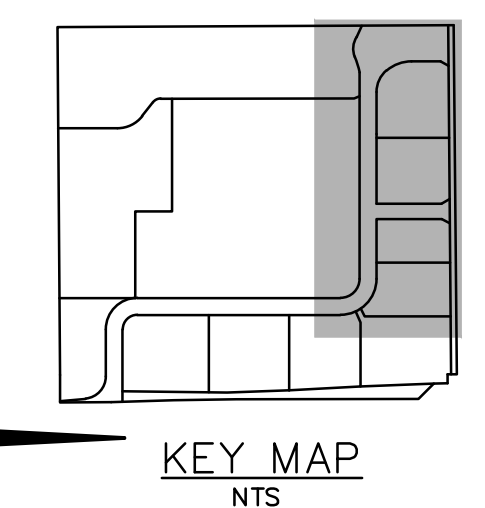
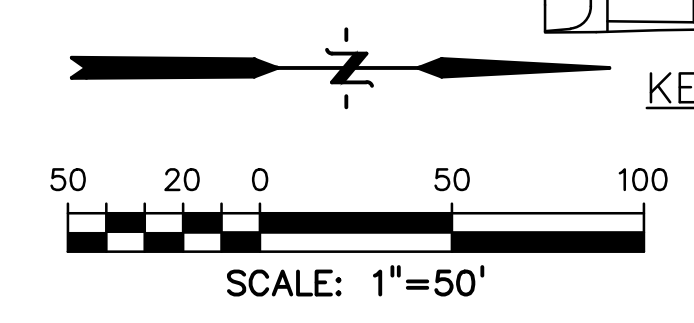
C8.6
 SHEET: 21 OF 27





LEGEND

PROPERTY LINE	---
LOT LINE	----
EASEMENT	----
CURB & GUTTER	====
SIDEWALK	----
PRO. WATER LINE	—W—
PRO. FIRE HYDRANT	—FH—
PRO. RAW WATER	—RW—
PRO. SANITARY SEWER	—SS—
PRO. STORM SEWER	—ST—
EX. OVERHEAD ELECTRIC	—OE—
EX. SANITARY SEWER	—SS—
EX. PETROLEUM	—UP—
EX. GAS	—G—
EX. RAW WATER	—RW—
EX. WATER	—W—
EX. STORM SEWER	—ST—



PREPARED BY:

DREXEL, BARRELL & CO.
 Engineers-Surveyors
 3 SOUTH 7TH STREET
 COLORADO SPRGS, COLORADO 80905
 CONTACT: TIM D. MCCONNELL, P.E.
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HUMMEL INVESTMENTS, LLC
 8117 PRESTON ROAD, SUITE 120
 DALLAS, TEXAS 75225
 (214) 416-9820

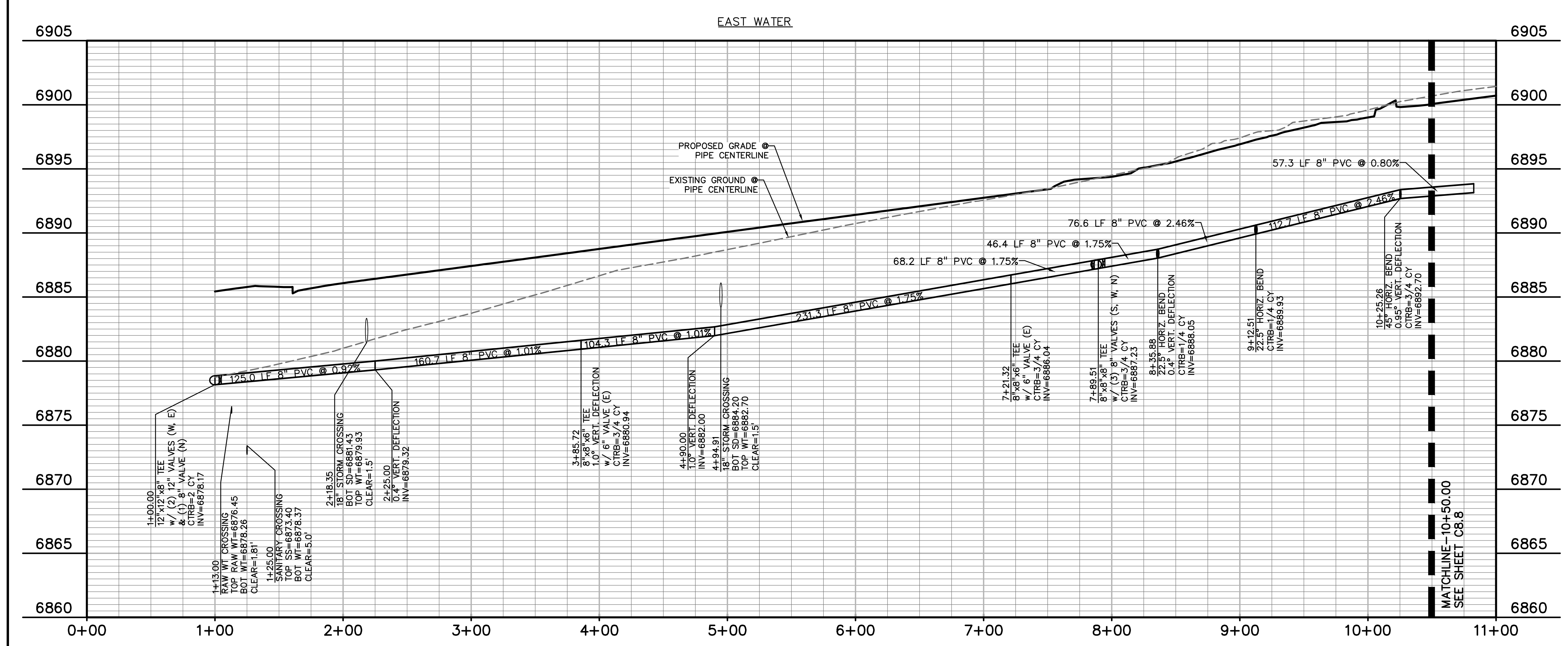
OVERLOT GRADING, POND, SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
**FALCON
 MARKETPLACE**
 FALCON, COLORADO

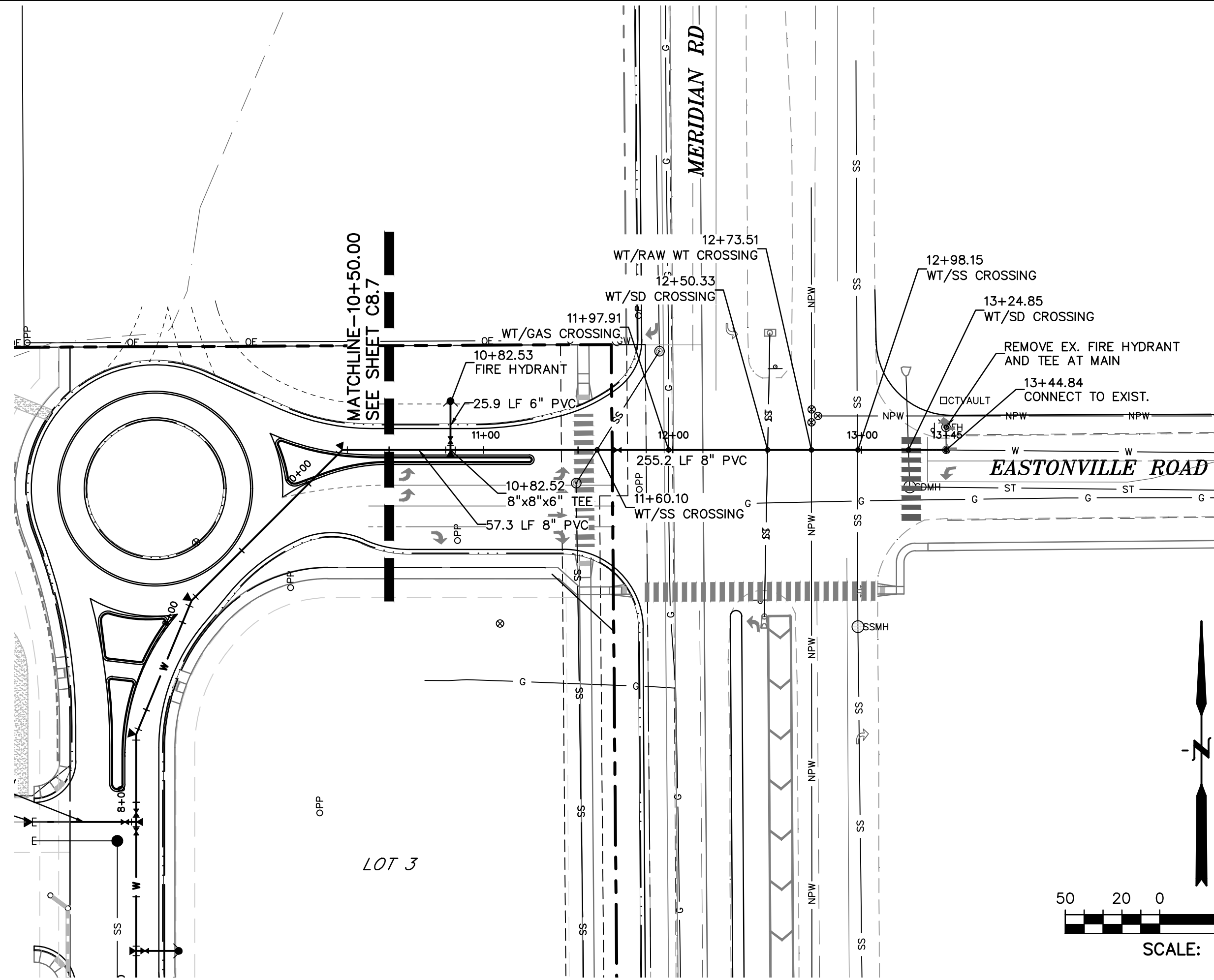
ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	

PREPARED UNDER MY DIRECT
 SUPERVISION FOR AND ON BEHALF
 OF DREXEL, BARRELL & CO.
 DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

**WATER
 PLAN & PROFILE**
 PROJECT NO. 20988-00CSCV
 DRAWING NO.

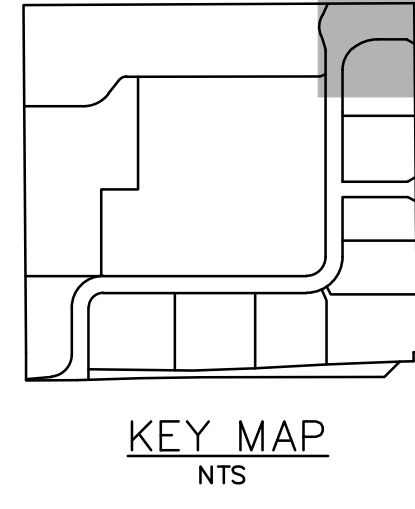
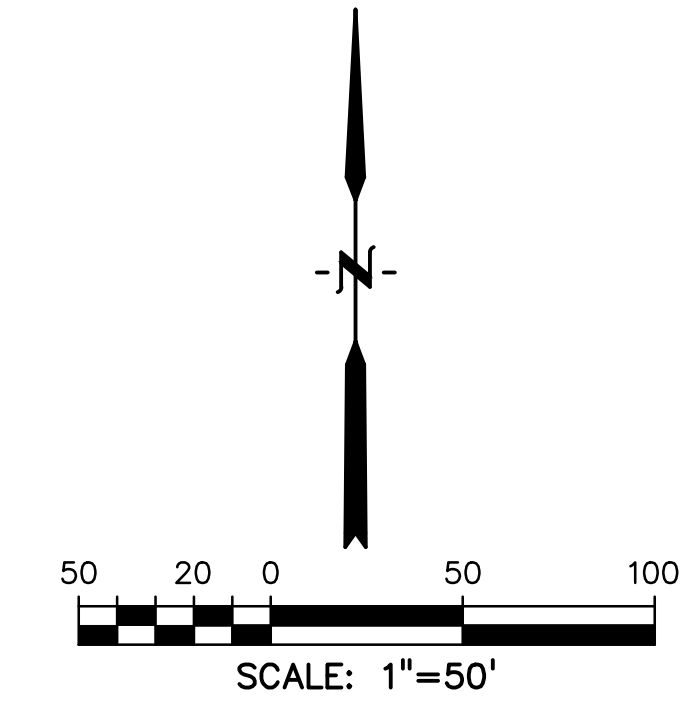
C8.7
 SHEET: 22 OF 27





LEGEND

PROPERTY LINE	---
LOT LINE	---
EASEMENT	---
CURB & GUTTER	---
SIDEWALK	---
PRO. WATER LINE	---
PRO. FIRE HYDRANT	---
PRO. RAW WATER	---
PRO. SANITARY SEWER	---
PRO. STORM SEWER	---
EX. OVERHEAD ELECTRIC	---
EX. SANITARY SEWER	---
EX. PETROLEUM	---
EX. GAS	---
EX. RAW WATER	---
EX. WATER	---
EX. STORM SEWER	---



PREPARED BY:

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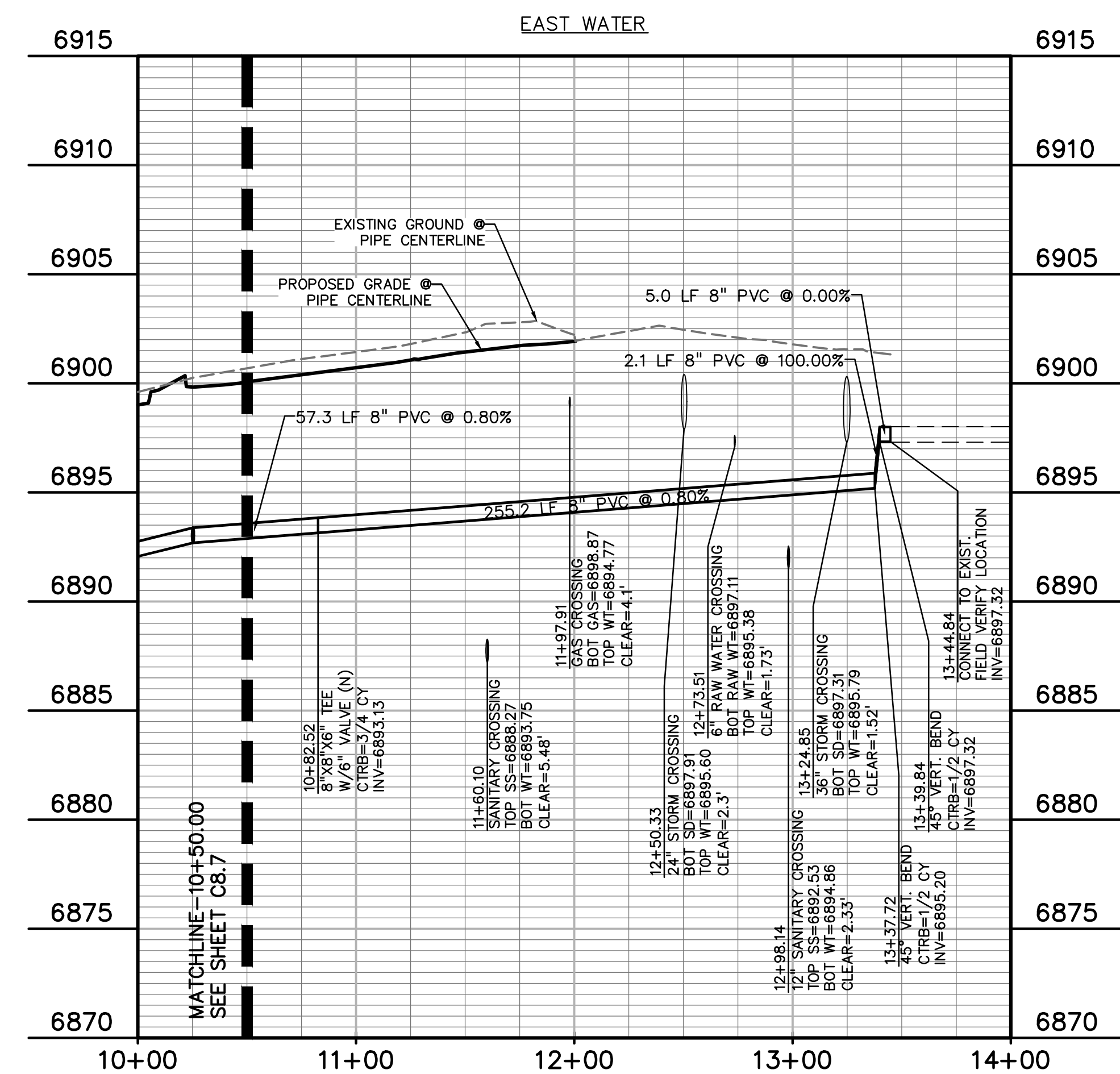
OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

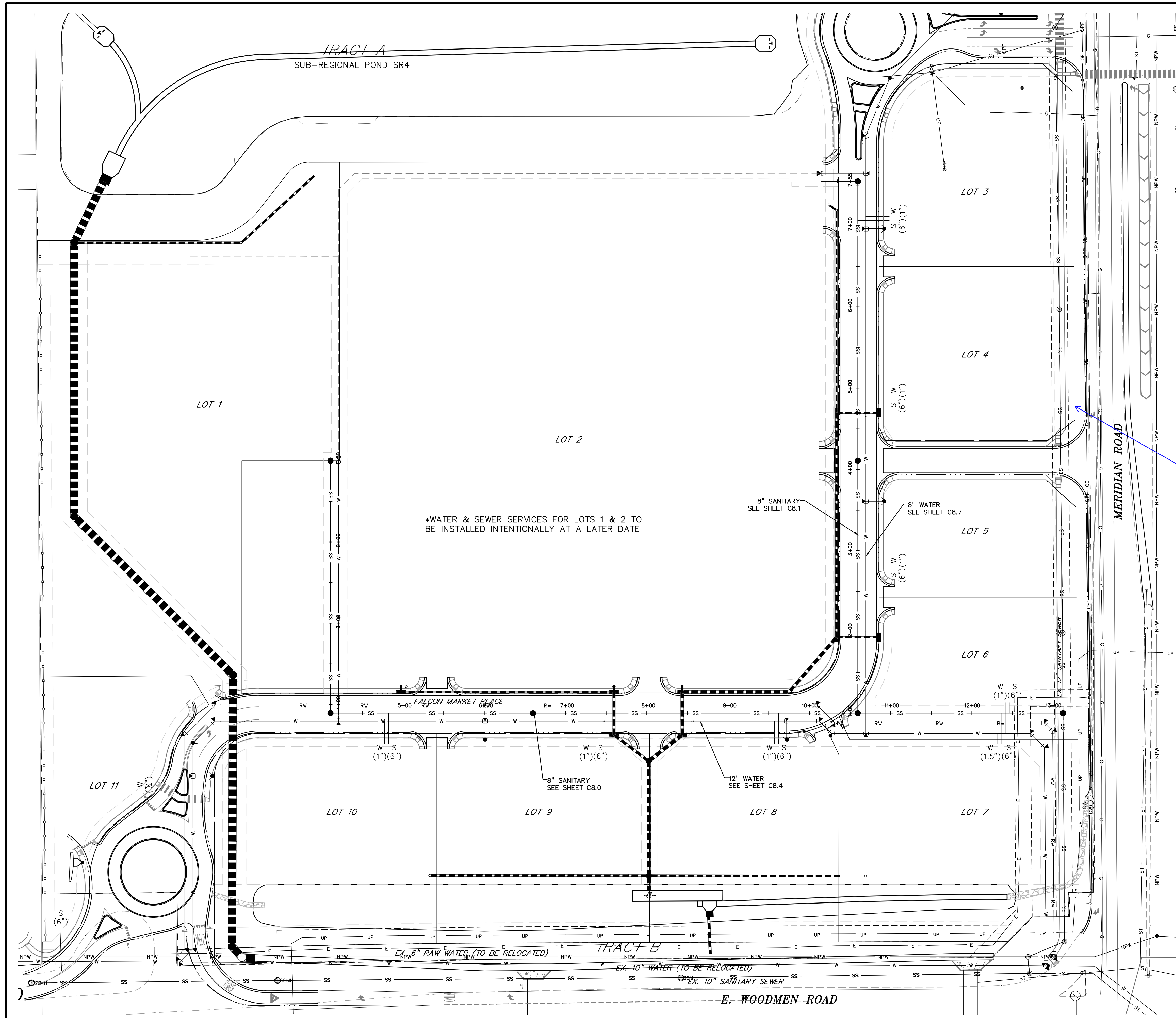
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1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.
 DRAWING SCALE:
 HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

WATER PLAN & PROFILE
 PROJECT NO. 20988-00CSCV
 DRAWING NO.

C8.8
 SHEET: 23 OF 27



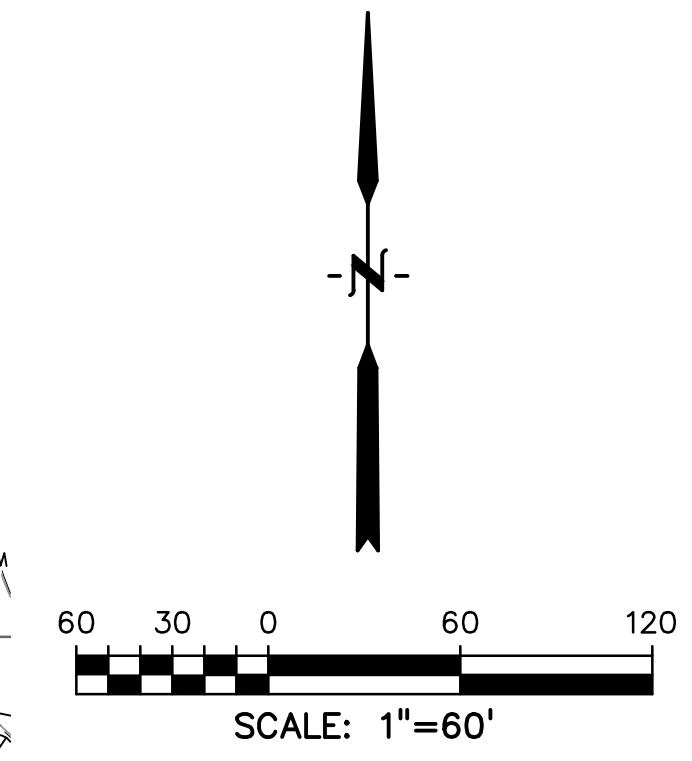


LEGEND

PROPERTY LINE	---
LOT LINE	---
EASEMENT	---
CURB & GUTTER	---
SIDEWALK	---
PRO. WATER LINE	W
PRO. FIRE HYDRANT	●
PRO. RAW WATER	RW
PRO. SANITARY SEWER	SS
PRO. STORM SEWER	ST
PRO. SANITARY SERVICE	S
PRO. WATER SERVICE	W
EX. OVERHEAD ELECTRIC	OE
EX. SANITARY SEWER	SS
EX. PETROLEUM	UP
EX. GAS	G
EX. RAW WATER	RW
EX. WATER	W
EX. STORM SEWER	ST

(Provide) ----NPW----

Show and label proposed ROW



PREPARED BY:

DREXEL, BARRELL & CO.
 Engineers • Surveyors
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OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: SBN
 DRAWN BY: SBN
 CHECKED BY: TDM
 FILE NAME:

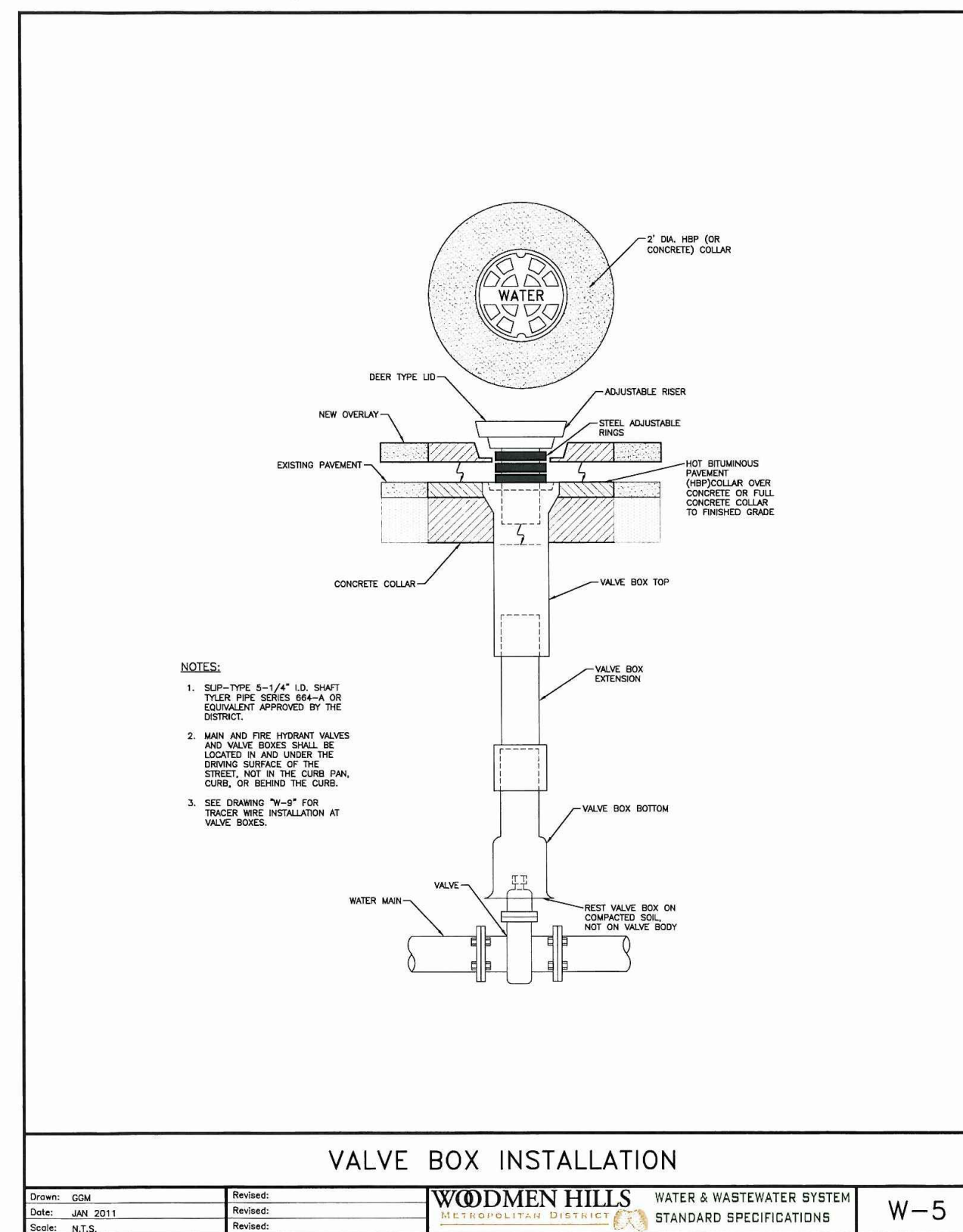
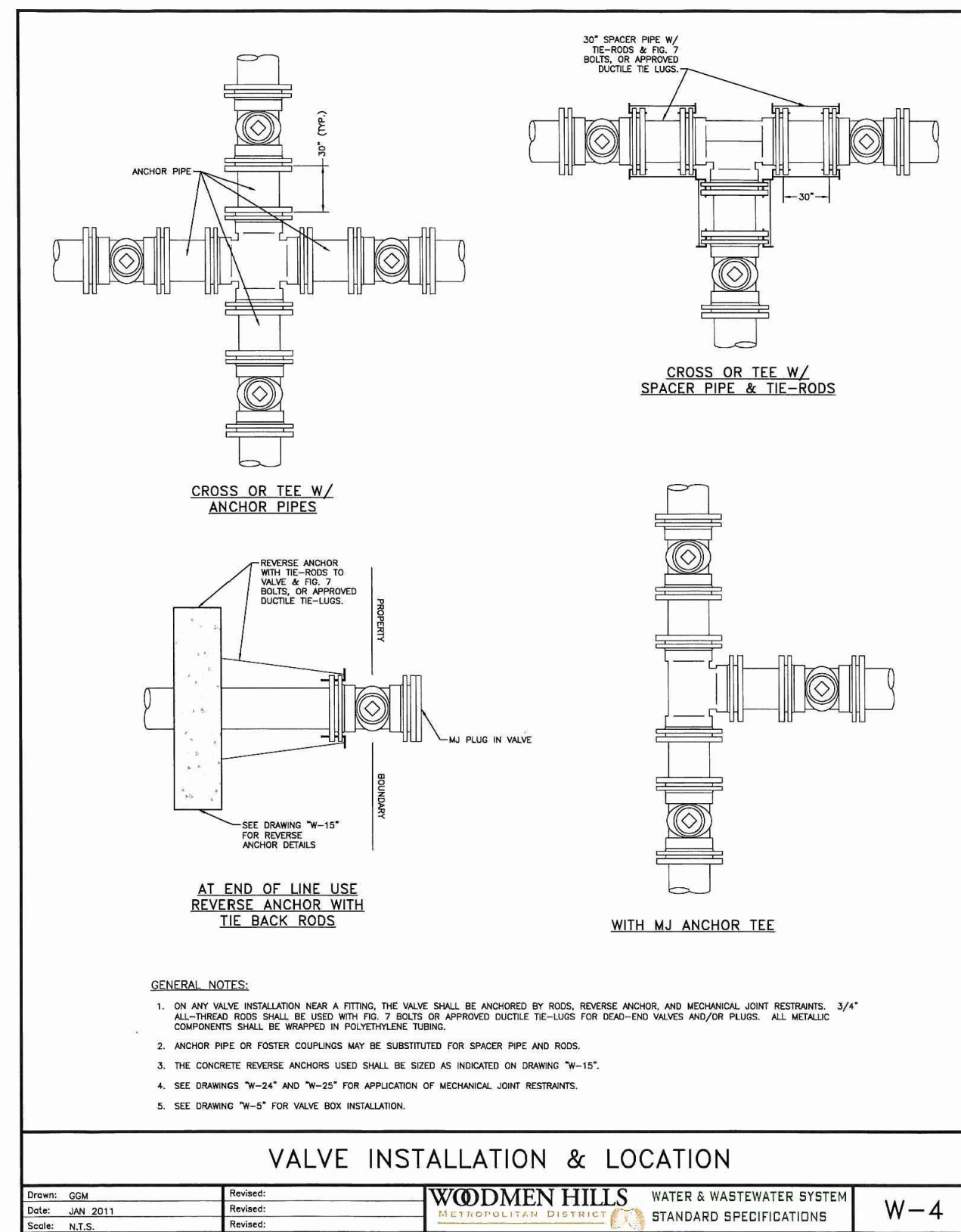
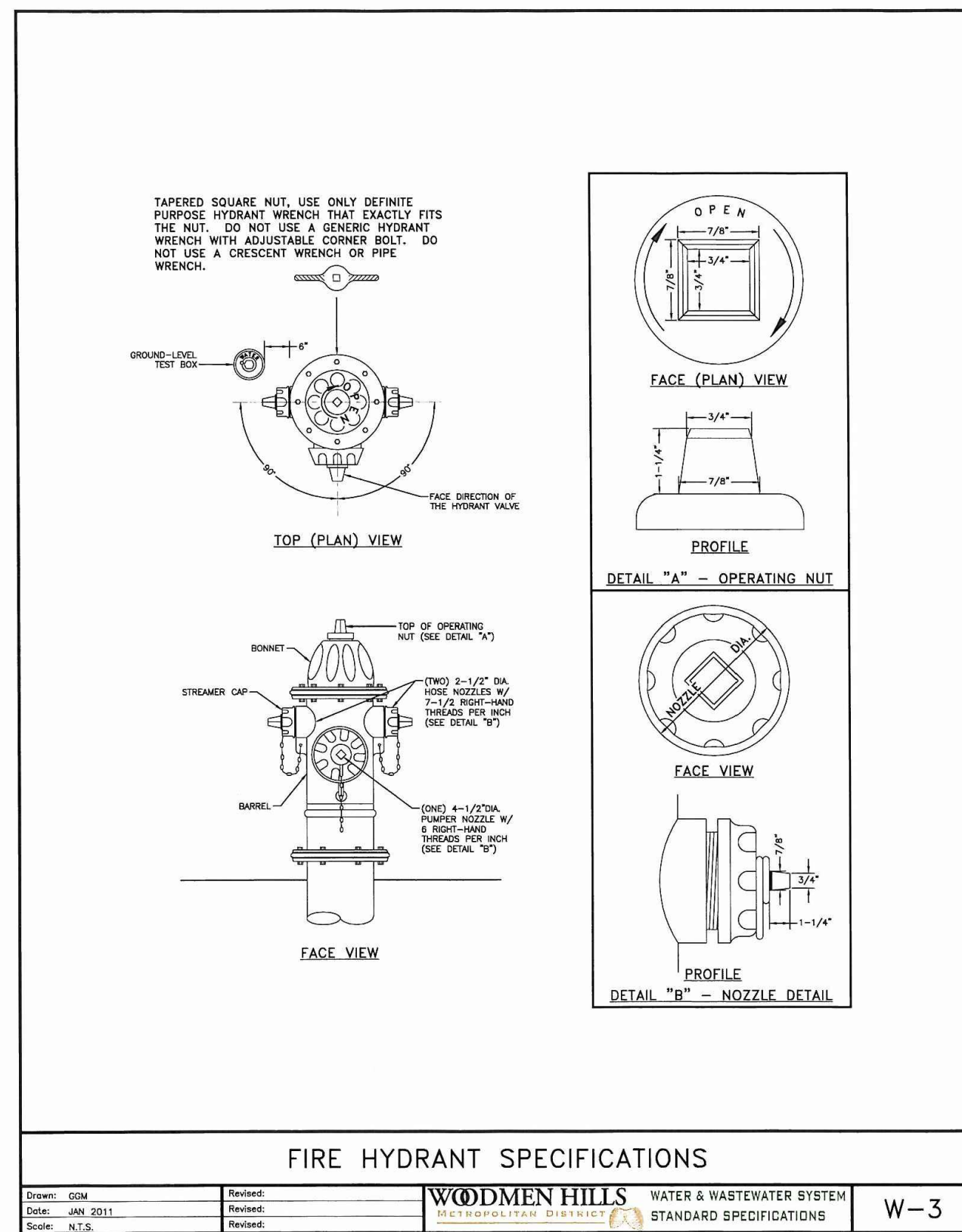
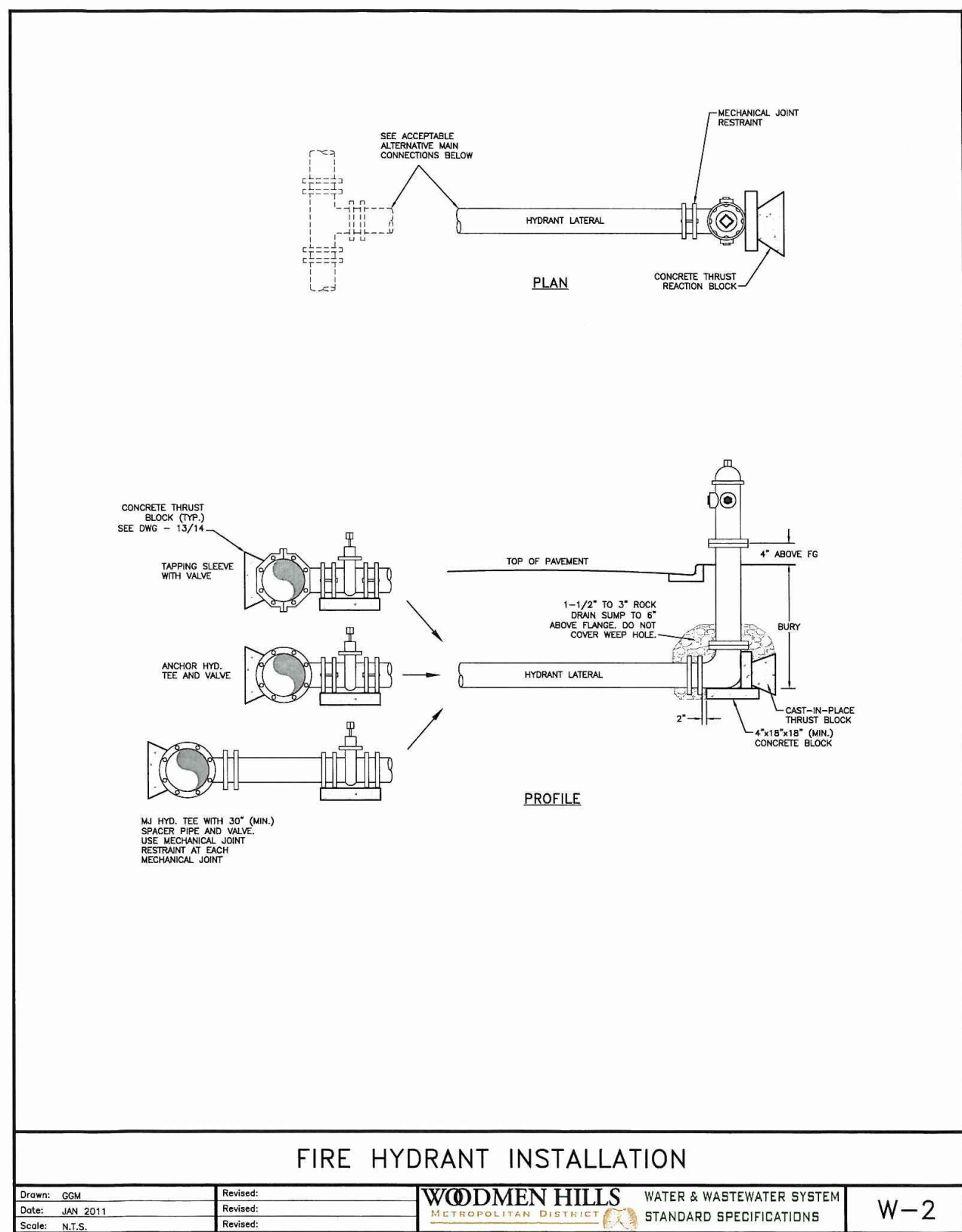
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.
 DRAWING SCALE:
 HORIZONTAL: 1"=60'
 VERTICAL: N/A

UTILITY SERVICE PLAN

PROJECT NO. 20988-00CSCV
 DRAWING NO.

C8.9

SHEET: 24 OF 27

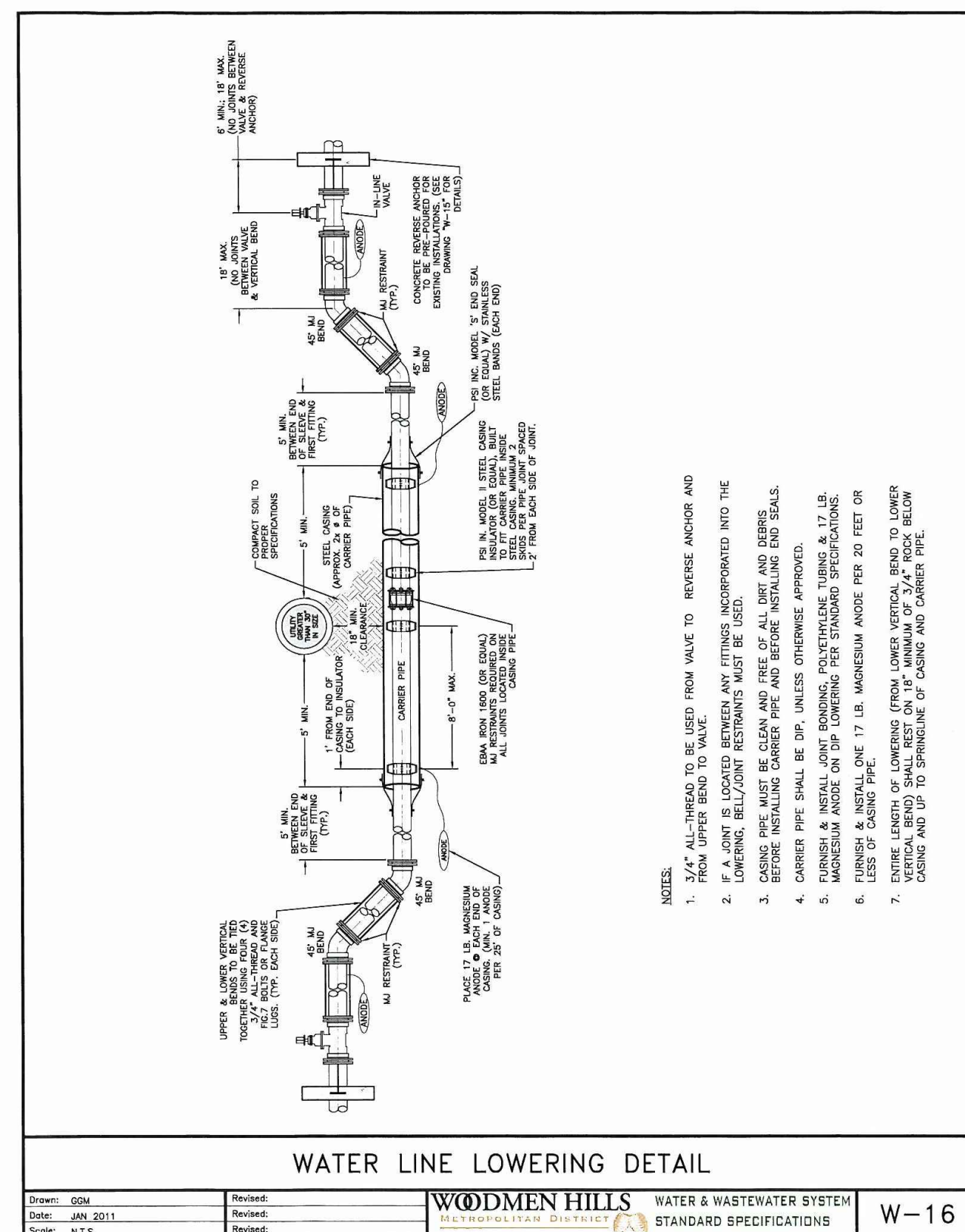
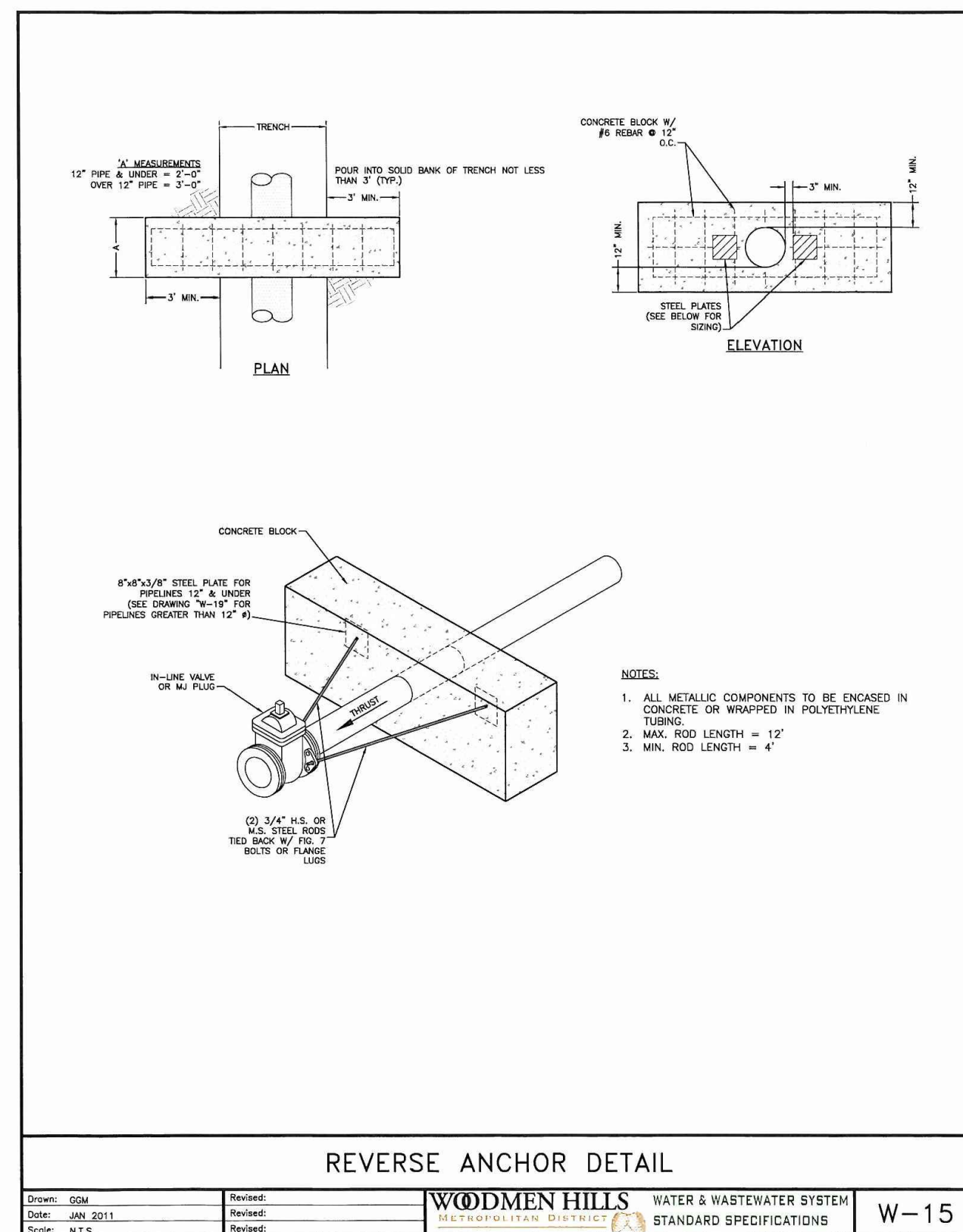
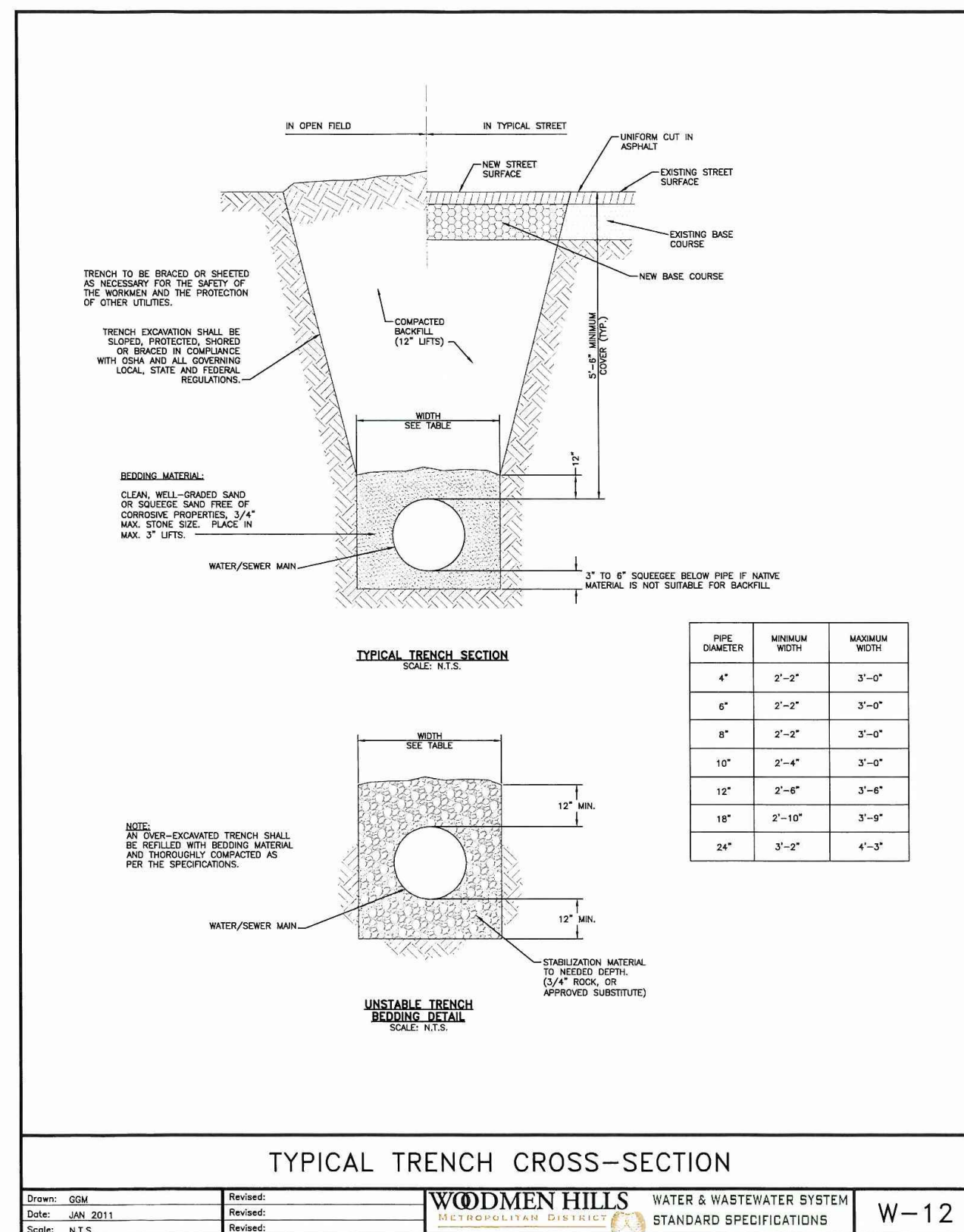


THRUST BLOCK DATA

NOTE: USE THE FOLLOWING VALUES FOR "C"

Vol. (GAL)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1/8"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
1/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
3/8"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
5/8"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
3/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
7/8"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
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1 1/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
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2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"

WOODMEN HILLS WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS W-10



PREPARED BY:

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OVERLOT GRADING, POND SR4 & UTILITY
 CONSTRUCTION DRAWINGS FOR
FALCON
MARKETPLACE
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: SBN
 DRAWN BY: SBN
 CHECKED BY: TDM
 FILE NAME: 20988-EG-UTD.L

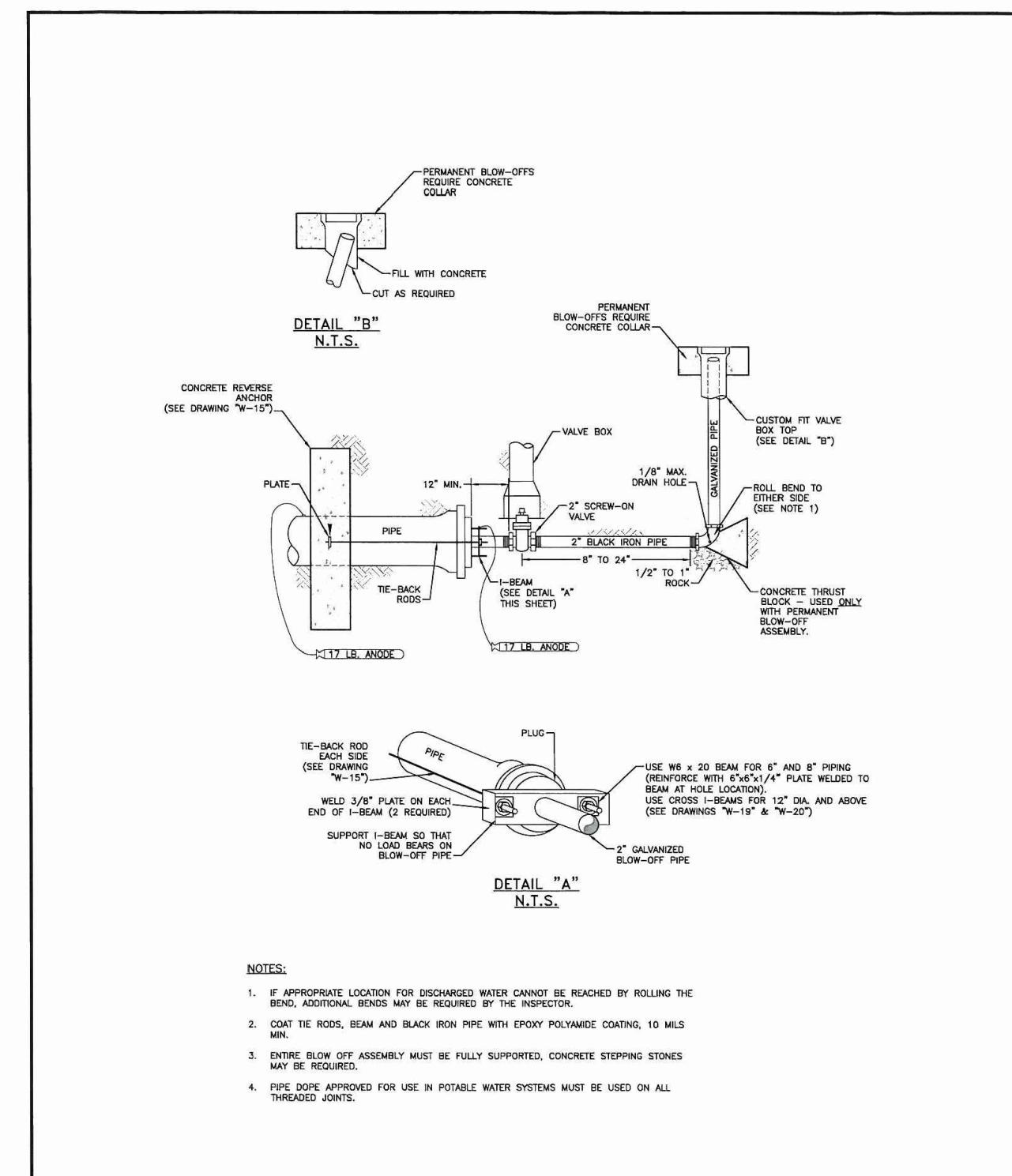
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 SUPERVISION FOR AND ON BEHALF
 OF DREXEL, BARRELL & CO.

DRAWING SCALE:
 HORIZONTAL: N/A
 VERTICAL: N/A

PROJECT NO. 20988-00CSV
 DRAWING NO.

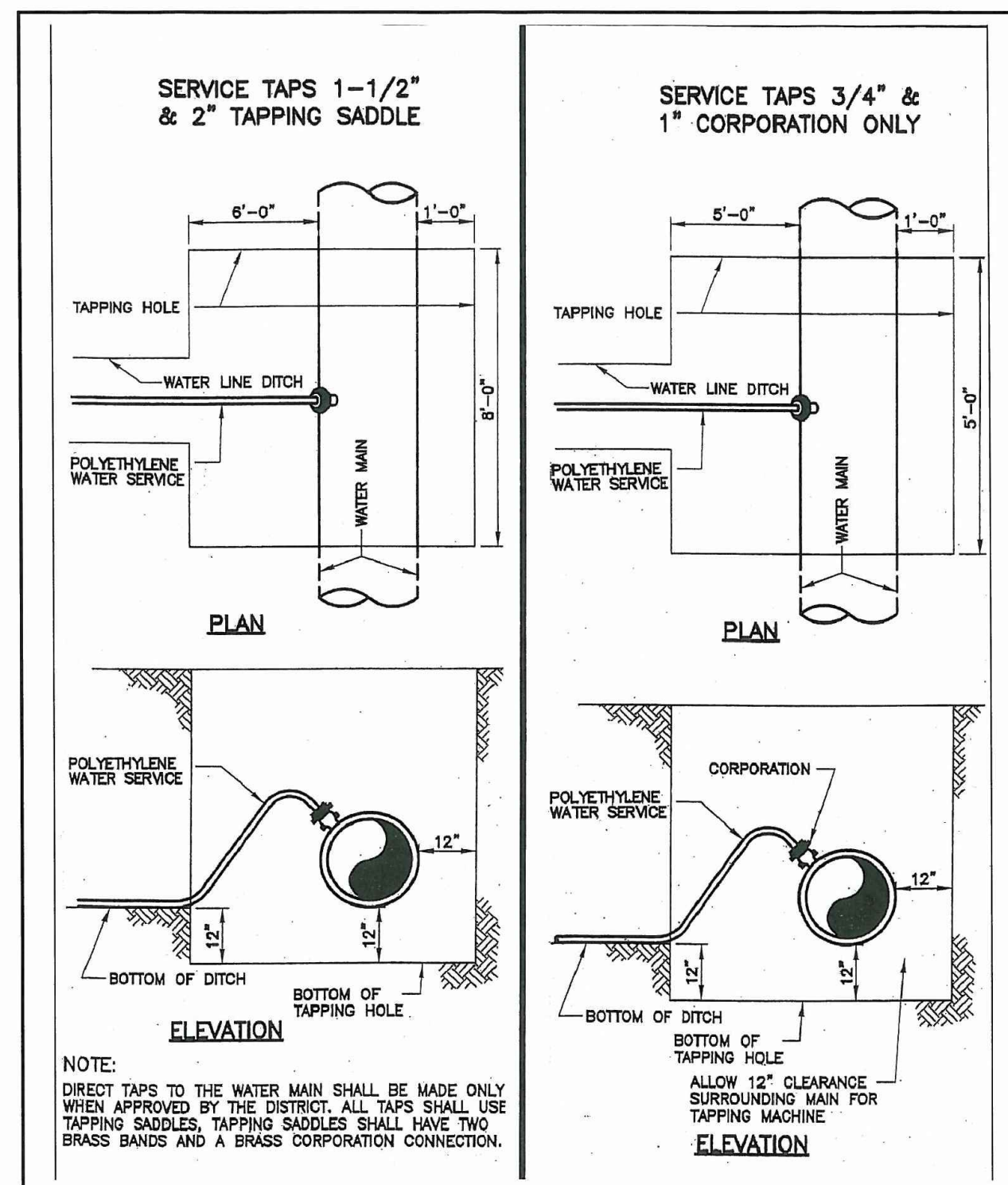
C8.10

SHEET: 25 OF 27



TEMP & PERMANENT BLOW-OFF ASSEMBLIES FOR 6" & 8" MAINS

Drawn: GSW	Reviewed:	WOODMEN HILLS	WATER & WASTEWATER SYSTEM	W-18
Date: 08/20/11	Reviewed:	STANDARD SPECIFICATIONS		
Scale: N.T.S.	Reviewed:			



TAPPING DETAIL - 3/4" THRU 2"

Drawn: GSW	Reviewed:	WOODMEN HILLS	WATER & WASTEWATER SYSTEM	W-32
Date: 08/20/11	Reviewed:	STANDARD SPECIFICATIONS		
Scale: N.T.S.	Reviewed:			

PREPARED BY:



CLIENT:

HUMMEL INVESTMENTS, LLC
8117 PRESTON ROAD, SUITE 120
DALLAS, TEXAS 75225
(214) 416-9820

OVERLOT GRADING, POND SR4 & UTILITY
CONSTRUCTION DRAWINGS FOR
FALCON MARKETPLACE
FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	20988-EG-UTD.TL

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

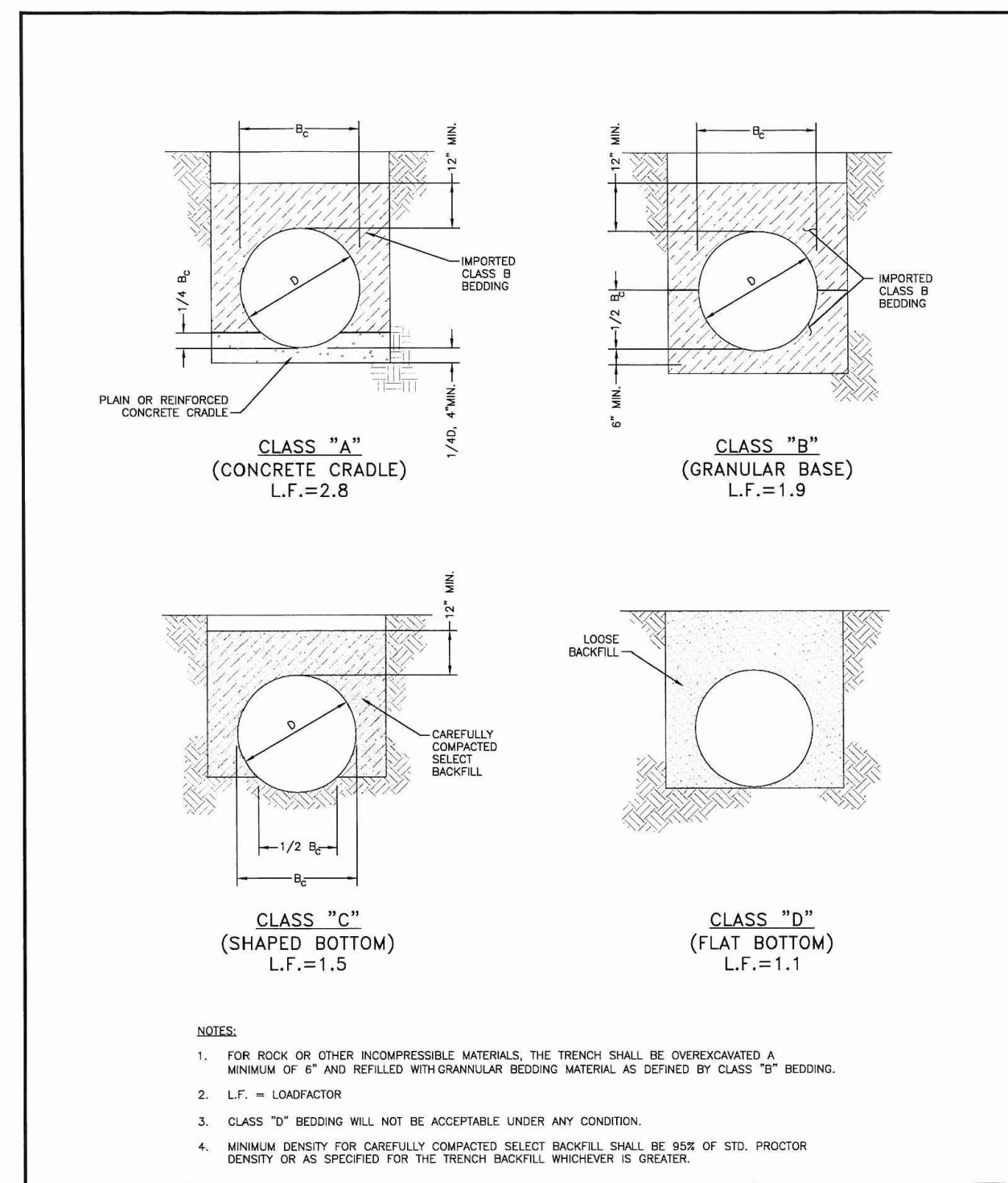
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VERTICAL: N/A

WATER DETAILS

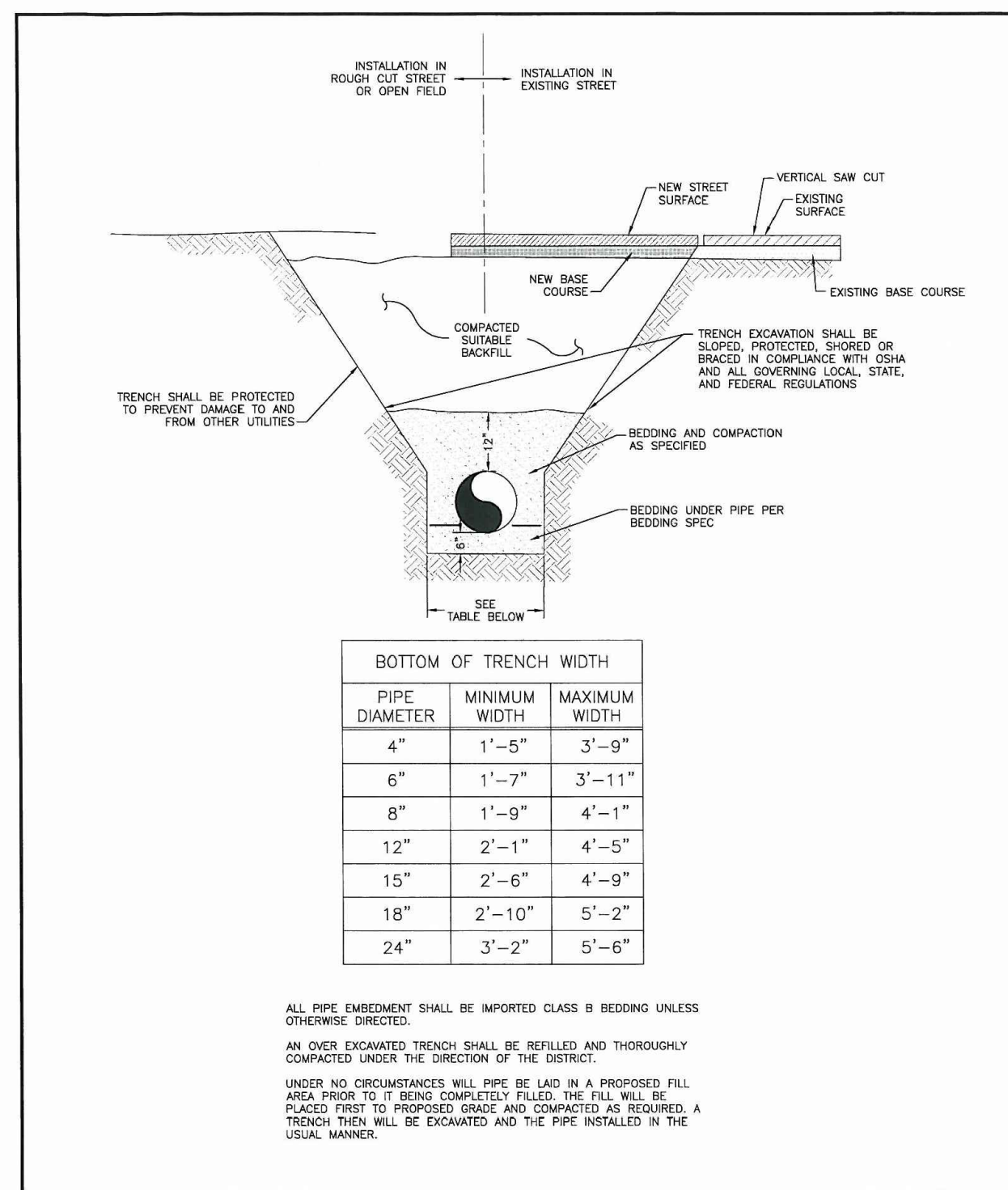
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DRAWING NO.

C8.11

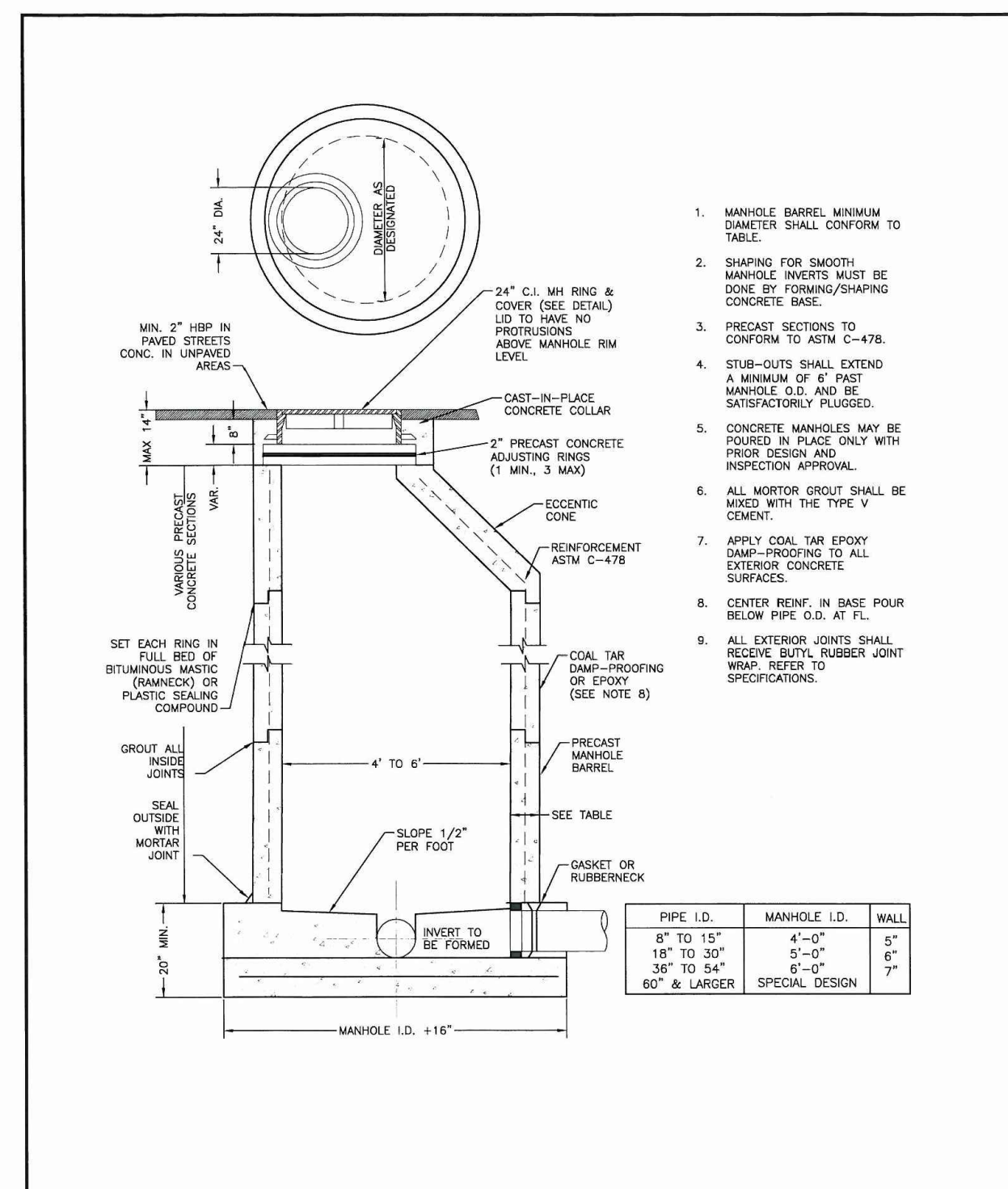
SHEET: 26 OF 27



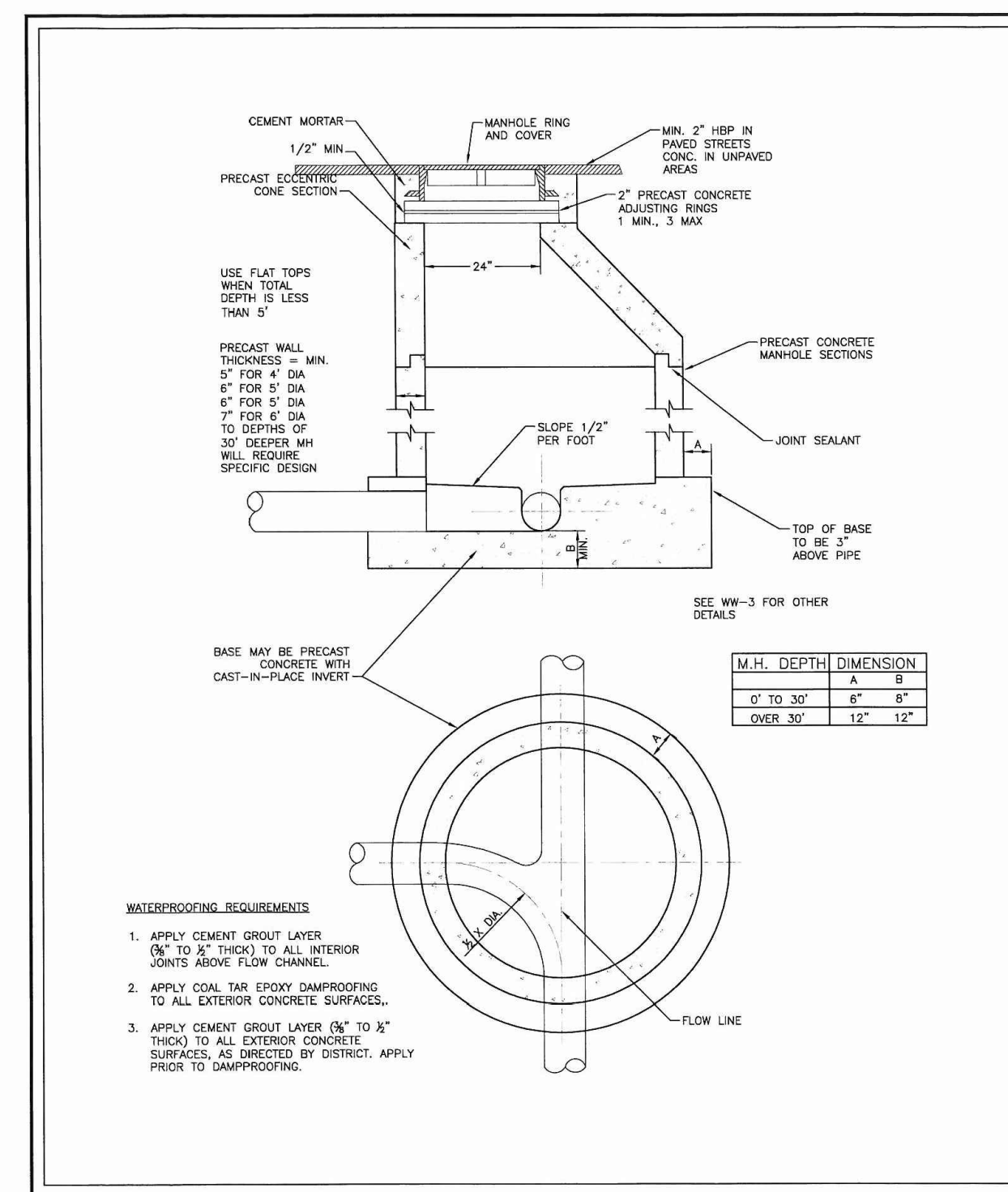
PIPE BEDDING			
Drawn: GJM	Revised:	WOODMEN HILLS WATER & WASTEWATER SYSTEM	WW-1
Date: JUN 2011	Revised:	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		



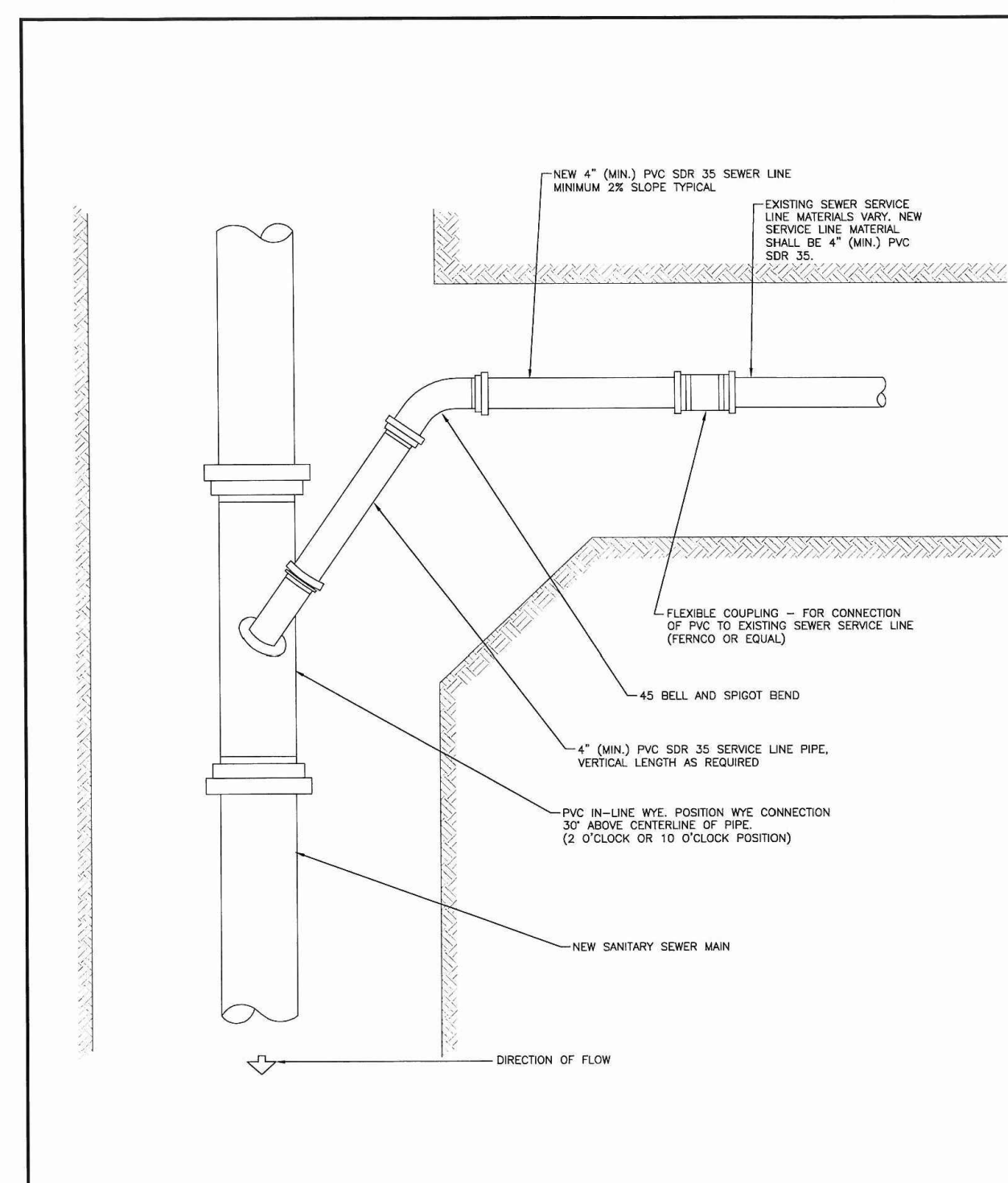
TYPICAL TRENCH CROSS SECTION			
Drawn: GJM	Revised:	WOODMEN HILLS WATER & WASTEWATER SYSTEM	WW-2
Date: JUN 2011	Revised:	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		



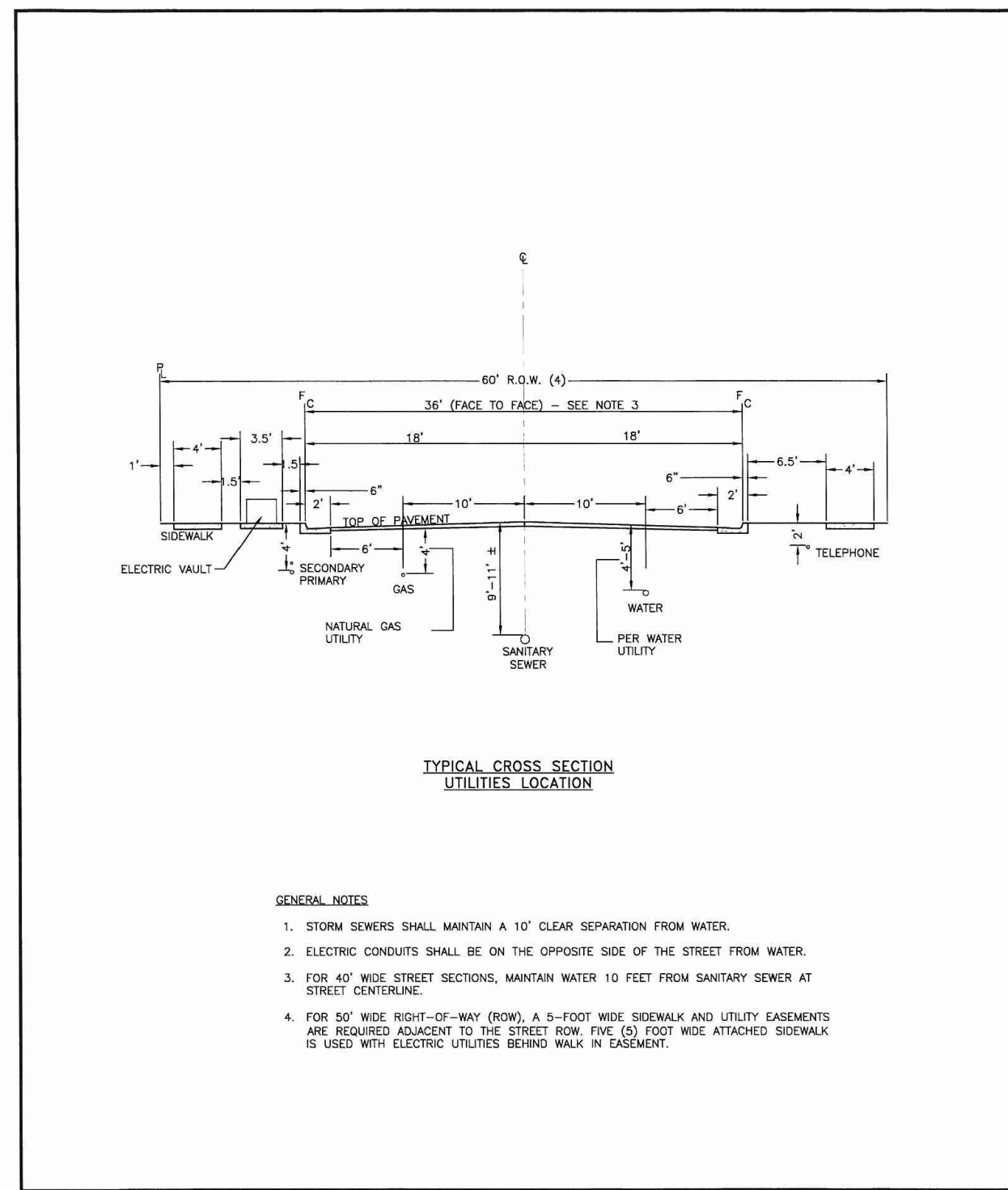
PRECAST MANHOLE			
Drawn: GJM	Revised:	WOODMEN HILLS WATER & WASTEWATER SYSTEM	WW-3
Date: JUN 2011	Revised:	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		



SANITARY SEWER MANHOLE			
Drawn: GJM	Revised:	WOODMEN HILLS WATER & WASTEWATER SYSTEM	WW-4
Date: JUN 2011	Revised:	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		



SANITARY SEWER SERVICE CONNECTION			
Drawn: GJM	Revised:	WOODMEN HILLS WATER & WASTEWATER SYSTEM	WW-7
Date: JUN 2011	Revised:	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		



TYPICAL CROSS SECTION UTILITIES LOCATION			
Drawn: GJM	Revised:	WOODMEN HILLS WATER & WASTEWATER SYSTEM	WW-8
Date: JUN 2011	Revised:	STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		

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OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR

FALCON MARKETPLACE
FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	6-18-18

DESIGNED BY: SBN
DRAWN BY: SBN
CHECKED BY: TDM
FILE NAME: 20988-EG-UTD.TL

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

SANITARY SEWER DETAILS

PROJECT NO. 20988-00CSCV
DRAWING NO.

C8.12

SHEET: 27 OF 27