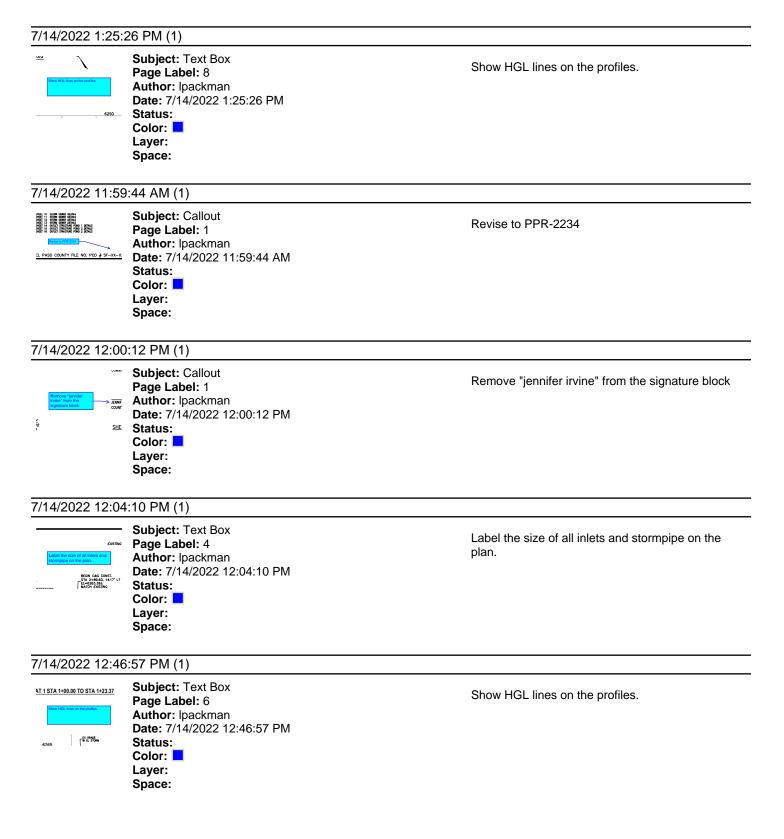
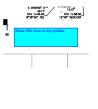
Roadway Plans_V1.pdf Markup Summary



7/14/2022 12:52:00 PM (1)



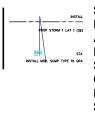
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7/18/2022 8:44:27 PM (1)



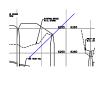
Subject: Callout Page Label: 6 Author: Daniel Torres Date: 7/18/2022 8:44:27 PM Status: Color: Layer: Space:

7/18/2022 8:47:01 PM (1)



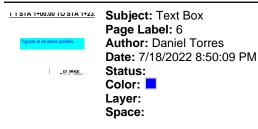
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7/18/2022 8:49:21 PM (1)



Subject: Arrow Page Label: 6 Author: Daniel Torres Date: 7/18/2022 8:49:21 PM Status: Color: Layer: Space:

7/18/2022 8:50:09 PM (1)



7/18/2022 8:51:57 PM (1)



Subject: Text Box Page Label: 6 Author: Daniel Torres Date: 7/18/2022 8:51:57 PM Status: Color: Color: Color: Space: Show HGL lines on the profiles.

identify who will maintain the proposed inlets and storm sewers in the common easement

triple type 16 is indicated on the drainage report. revise.

Typical at all storm profiles.

provide vertical scale

7/18/2022 8:55:03 PM (1)



Subject: Text Box Page Label: 7 Author: Daniel Torres Date: 7/18/2022 8:55:03 PM Status: Color: Color: Color: Space:

7/18/2022 8:56:50 PM (1)



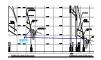
Subject: Callout Page Label: 8 Author: Daniel Torres Date: 7/18/2022 8:56:50 PM Status: Color: Layer: Space:

7/18/2022 8:58:14 PM (1)



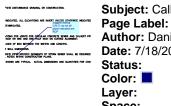
Subject: Callout Page Label: 7 Author: Daniel Torres Date: 7/18/2022 8:58:14 PM Status: Color: Layer: Space:

7/18/2022 9:00:41 PM (1)



Subject: Callout Page Label: 8 Author: Daniel Torres Date: 7/18/2022 9:00:41 PM Status: Color: Layer: Space:

7/18/2022 9:03:31 PM (1)



Subject: Callout Page Label: 9 Author: Daniel Torres Date: 7/18/2022 9:03:31 PM Status: Color: Layer: Space:

suggest adding U.N.O. as not all pipes indicated are RCP

7/18/2022 9:05:35 PM (1)



Subject: Callout Page Label: 10 Author: Daniel Torres Date: 7/18/2022 9:05:35 PM Status: Color: Color: Color: Space:

update file no.

provide vertical scale

18" identified on the drainage plan. Revise accordingly.

identify the depth of the basin

identify the cut-off wall indicated in the GEC plan

7/18/2022 9:06:09 PM (1)



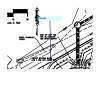
Subject: Cloud+ Page Label: 12 Author: Daniel Torres Date: 7/18/2022 9:06:09 PM Status: Color: Layer: Space:

7/18/2022 9:09:33 PM (1)



Subject: Callout Page Label: 14 Author: Daniel Torres Date: 7/18/2022 9:09:33 PM Status: Color: Layer: Space:

7/19/2022 6:02:25 AM (1)



1

Subject: Callout Page Label: 14 Author: Daniel Torres Date: 7/19/2022 6:02:25 AM Status: Color: Layer: Space:

Date: 7/19/2022 6:05:44 AM

Subject: Callout

Page Label: 14 Author: Daniel Torres

Status: Color: Layer: Space:

provide

Does not appear correct. revise accordingly

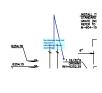
36" indicated on the drainage plan and the storm

profile. Revise accordingly

7/19/2022 6:43:53 AM (1)

7/19/2022 6:05:44 AM (1)

COTT CLASS OF



Subject: Callout Page Label: 14 Author: Daniel Torres Date: 7/19/2022 6:43:53 AM Status: Color: Layer: Space:

the diameter does not match the calculations. Revise accordingly.

7/19/2022 6:46:45 AM (1)

-0+25



Subject: Callout Page Label: 15 Author: Daniel Torres Date: 7/19/2022 6:46:45 AM Status: Color: Color: Color: Space:

tie all proposed contours to existing

update

7/19/2022 6:50:10 AM (1)



Subject: Callout Page Label: 15 Author: Daniel Torres Date: 7/19/2022 6:50:10 AM Status: Color: Layer: Space:

7/19/2022 6:53:18 AM (1)



Subject: Callout Page Label: 16 Author: Daniel Torres Date: 7/19/2022 6:53:18 AM Status: Color: Layer: Space:

7/20/2022 2:52:05 PM (1)



Subject: Engineer Page Label: 8 Author: dotprete Date: 7/20/2022 2:52:05 PM Status: Color: Layer: Space:

7/20/2022 2:58:19 PM (1)



Subject: Engineer Page Label: 16 Author: dotprete Date: 7/20/2022 2:58:19 PM Status: Color: Layer: Space:

7/20/2022 3:01:09 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:01:09 PM Status: Color: ■ Layer: Space:

7/20/2022 3:03:58 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:03:58 PM Status: Color: ■ Layer: Space: the drainage report indicates that the spillway is designed for 12.8 cfs (rational flow). Revise accordingly.

provide missing info

clarify if there is a difference between soil filled and void filled riprap

revise/clarify all section labels

Provide riprap gradation table and note that CDOT Section 506 Requirements apply.

7/20/2022 3:04:23 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:04:23 PM Status: Color: Color: Color: Space:

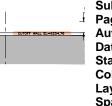
7/20/2022 3:04:31 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:04:31 PM Status: Color: ■ Layer: Space:

revise callout

7/20/2022 3:16:25 PM (1)



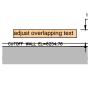
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7/20/2022 3:16:35 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:16:35 PM Status: Color: Layer: Space:

7/20/2022 3:16:54 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:16:54 PM Status: Color: ■ Layer: Space:

adjust overlapping text

7/20/2022 3:16:59 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:16:59 PM Status: Color: ■ Layer: Space:

adjust overlapping text

7/20/2022 3:17:11 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:17:11 PM Status: Color: Color: Color: Space:

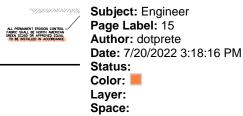
7/20/2022 3:17:16 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 3:17:16 PM Status: Color: ■ Layer: Space:

adjust overlapping text

7/20/2022 3:18:16 PM (1)

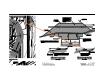


7/20/2022 3:23:45 PM (1)

SAND FILTER

Subject: Engineer Page Label: 16 Author: dotprete Date: 7/20/2022 3:23:45 PM Status: Color: Layer: Space:

7/20/2022 3:24:00 PM (1)



Subject: Arrow Page Label: 16 Author: dotprete Date: 7/20/2022 3:24:00 PM Status: Color: Layer: Space:

7/20/2022 3:24:02 PM (1)



Subject: Engineer Page Label: 16 Author: dotprete Date: 7/20/2022 3:24:02 PM Status: Color: Color: Color: Space: revise detail title

7/20/2022 3:25:17 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:25:17 PM Status: Color: Layer: Space:

7/20/2022 3:25:23 PM (1)



Page Label: 14 Author: dotprete Date: 7/20/2022 3:25:23 PM Status: Color: Layer: Space:

7/20/2022 3:26:59 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:26:59 PM Status: Color: Laver: Space:

7/20/2022 3:27:38 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:27:38 PM Status: Color: Layer: Space:

7/20/2022 3:28:44 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:28:44 PM Status: Color: Layer: Space:

7/20/2022 3:32:51 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:32:51 PM Status: Color: Laver: Space:

provide section A-A detail

adjust linetype to clearly identify slotted PVC pipe

provide text detail for this leg

cleanout?

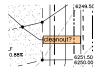
locations

7/20/2022 3:33:02 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:33:02 PM Status: Color: Layer: Space:

7/20/2022 3:33:08 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:33:08 PM Status: Color: Layer: Space:

7/20/2022 3:33:41 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:33:41 PM Status: Color: Laver: Space:

7/20/2022 3:37:22 PM (1)

Amico 19-SR-2 27 3/4" X 18 3/4" AMICO SS STEEL BAR GRATE OR ENT OVER OPENING, 3/16" Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 3:37:22 PM Status: Color: Layer: Space:

7/20/2022 4:00:13 PM (1)



Subject: Engineer Page Label: 14 Author: dotprete Date: 7/20/2022 4:00:13 PM Status: Color: Layer: Space:

much more costly than the maintenance for your design from a SFB to an EDB

7/20/2022 4:04:57 PM (1)



Subject: Engineer Page Label: 15 Author: dotprete Date: 7/20/2022 4:04:57 PM Status: Color: Laver: Space:

cleanout?

90 degree cleanout is difficult for maintenance, consider moving cleanouts to end of pipes and installing 3 way tees here

Amico 19-SR-2

Note: The maintenance for a sand filter basin is standard grass bottom EDB. Consider revising the

include dimensions on plans

cleanout?

7/20/2022 4:05:25 PM (1)



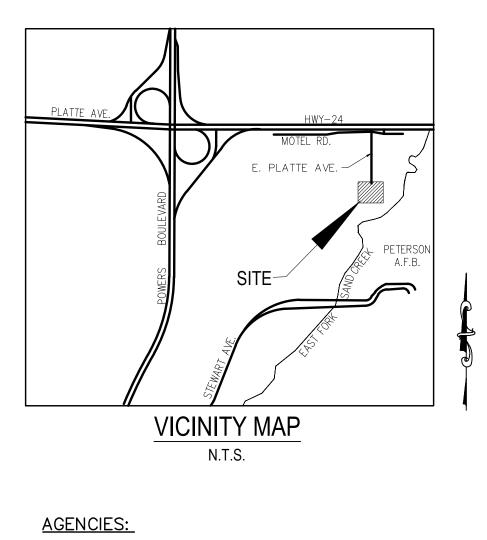
Subject: Engineer Page Label: 16 Author: dotprete Date: 7/20/2022 4:05:25 PM Status: Color: ■ Layer: Space:

7/20/2022 4:27:59 PM (1)



Subject: Engineer Page Label: 16 Author: dotprete Date: 7/20/2022 4:27:59 PM Status: Color: ■ Layer: Space: provide sizing calculations in drainage report and show dimensions on plans

Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2. --Unless the anticipated maintenance vehicles and equipment can safely access the pond at specified road width. Properly document this in the Pond O&M manual.



OWNER:	WIRENUT HOME SERVICES PO BOX 2245 FORT COLLINS, CO 80522 TRENT URBAN (719) 227–0500
DEVELOPER:	HAMMERS CONSTRUCTION 1411 WOOLSEY HEIGHTS COLORADO SPRINGS, CO 80915 (719) 570–1599
CIVIL ENGINEER:	M&S CIVIL CONSULTANTS, INC. 212 N WAHSATCH AVENUE, SUITE 305 COLORADO SPRINGS, CO 80903 VIRGIL A. SANCHEZ P.E. (719) 955–5485
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 GILBERT LAFORCE, P.E. (719)-520-7945
TRAFFIC ENGINEERING:	EL PASO COUNTY PUBLIC SERVICES & TRANS. DEPT. 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 JENNIFER IRVINE, P.E. (719) 520-6460
FIRE DISTRICT:	CIMARRON HILLS FIRE DEPARTMENT 1835 TUSKEGEE PLACE COLORADO SPRINGS, CO 80915 (719) 591–0960
WATER RESOURCES:	CHEROKEE METRO DISTRICT 6250 PALMER PARK BLVD. COLORADO SPRINGS, CO 80915 JEFF MUNGER (719) 597–5080
GAS DEPARTMENT:	COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947 TIM WENDT (719) 668–3556
ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495–2283
COMMUNICATIONS:	QWEST COMMUNICATIONS (U.N.C.C. LOCATORS) (800) 922–1987 AT&T (LOCATORS) (719) 635–3674

BENCHMARKS:

- FIMS MONUMENT F81, LOCATED ON THE NORTH SIDE OF EAST PLAT AVE. 50' WEST OF FORD STREET. ELEV.=6275.86' (NAVD88)
- 2. MUELLER BOLT ON HYDRANT FLANGE, HYDRANT LOCATED AT THE SW CORNER OF LOT 3. ELEV.=6265.48' (NAVD88)

BASIS OF BEARINGS

THE EASTERLY LINE OF LOTS 2 AND 3, OF "CLEARWAY NO 2" PLAT NO 10231 OF THE RECORDS OF EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE SOUTH END BY A 1.5" ALUMINUM CAP STAMPED PLS 38658, FROM WHICH A NAIL & WASHER, EL: 6267.44 BEARS NO0°00'00"W, A DISTANCE OF 300.02 FEET.

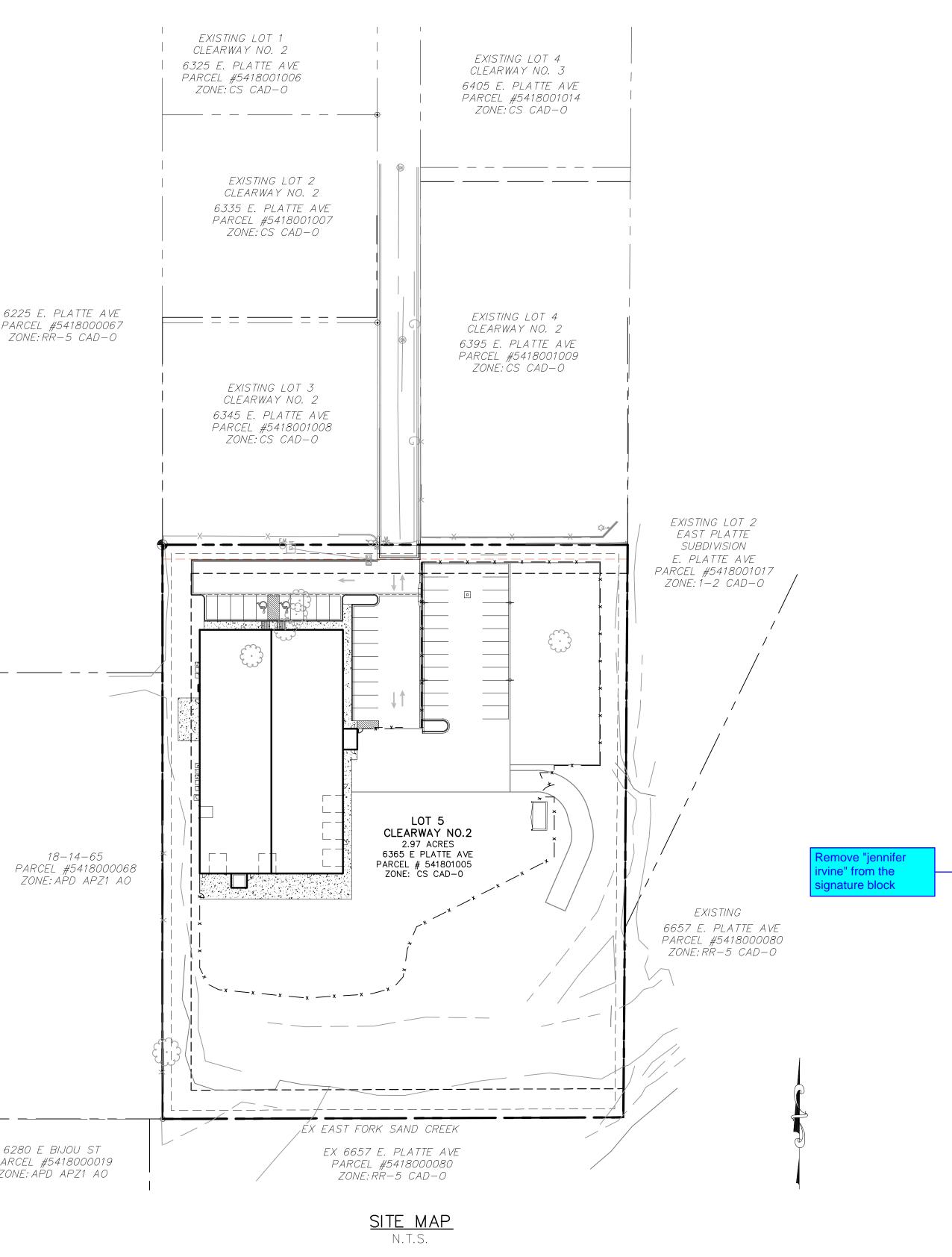


6280 E BIJOU ST PARCEL #5418000019 ZONE: APD APZ1 AO

PARCEL #5418000067 ZONE: RR-5 CAD-0

CLEARWAY FILING NO. 2, LOT 5 COUNTY OF EL PASO, STATE OF COLORADO **CONSTRUCTION PLANS**

JUNE 2022



DESIGN ENGINEER'S STATEMENT

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

VIRGIL A. SANCHEZ, COLORADO P.E. #37160 FOR AND ON BEHALF OF M & S CIVIL CONSULTANTS, INC.

OWNER/DEVELOPER'S STATEMENT:

I, THE DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS IN THESE DETAILED PLANS AND SPECIFICATIONS.

HAMMERS CONSTRUCTION, INC

ADDRESS: 1411 WOOLSEY HEIGHTS, COLORADO SPRINGS, CO 80915

EL PASO COUNTY:

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

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

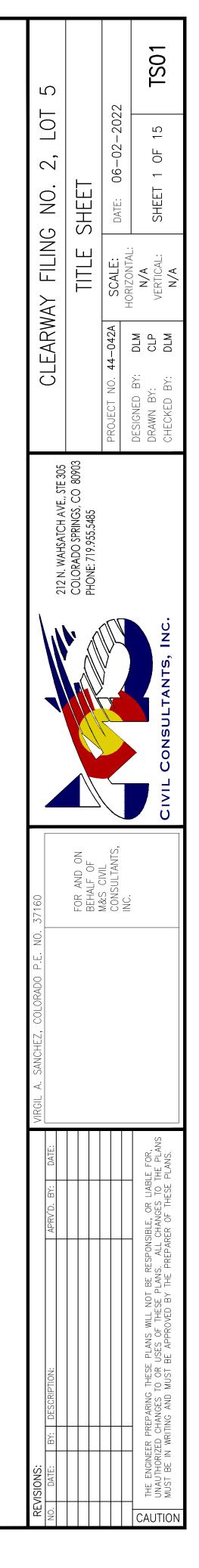
IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF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

→ JENNIFER IRVINE, P.E. COUNTY ENGINER / ECM ADMINISTRATOR

DATE

SHEET INDEX SHEET 1 TITLE SHEET SHEET 2 CONSTRUCTION NOTES & DETAILS SHEET 3 DEMOLITION PLAN SHEET 4 STREET IMPROVEMENT PLAN SHEET 5 STRIPING AND SIGNAGE PLAN SHEET 6 STORM SEWER PLAN AND PROFILE (STM1, STM1LAT1, STM1LAT2) SHEET 7 STORM SEWER PLAN AND PROFILE (STM2, STM3) SHEET 8 STORM SEWER PLAN AND PROFILE (STM4, STM5, STM6) SHEET 9 STORM SEWER NOTES AND DETAILS SHEET 10 STORM SEWER DETAILS SHEET 11 STORM SEWER DETAILS SHEET 12 STORM SEWER DETAILS SHEET 13 STORM SEWER DETAILS SHEET 14 OUTLET STRUCTURE POND 1 DETAILS SHEET 15 OUTLET STRUCTURE POND 2 DETAILS SHEET 16 OUTLET STRUCTURE POND 2 DETAILS evise to PPR-223

EL PASO COUNTY FILE NO. PCD # SF-XX-XXX



GENERAL CONSTRUCTION NOTES:

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 2. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- 3. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 4. ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED PER THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PCD.
- 5. ALL STATIONING IS CENTERLINE OF IMPROVEMENTS UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED AS TOP BACK OF CURB (TBC), ASPHALT (ASP), OR TOP OF INLET OR BOX (TOB).
- 6. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO EPC ECM APPENDIX K - 1.2C.
- 7. ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES IS REQUIRED AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" VERTICAL IN THIS AREA.
- 8. ALL CULVERTS AND STORM DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNER'S GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 CULVERTS
- 9. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT THE TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO CONSTRUCTION.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

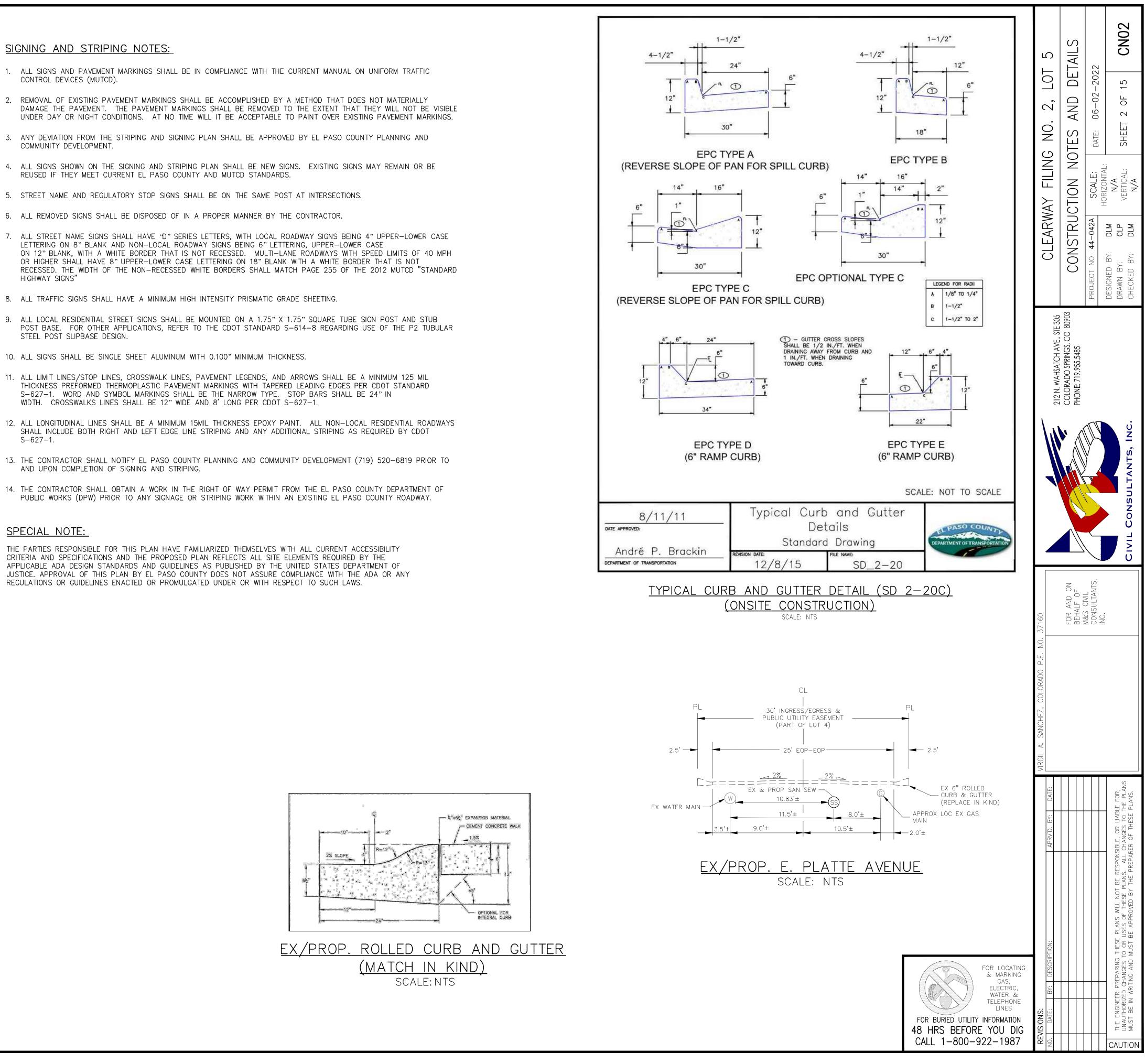
- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- d. CDOT M & S STANDARDS
- 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. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PCD INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 3. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

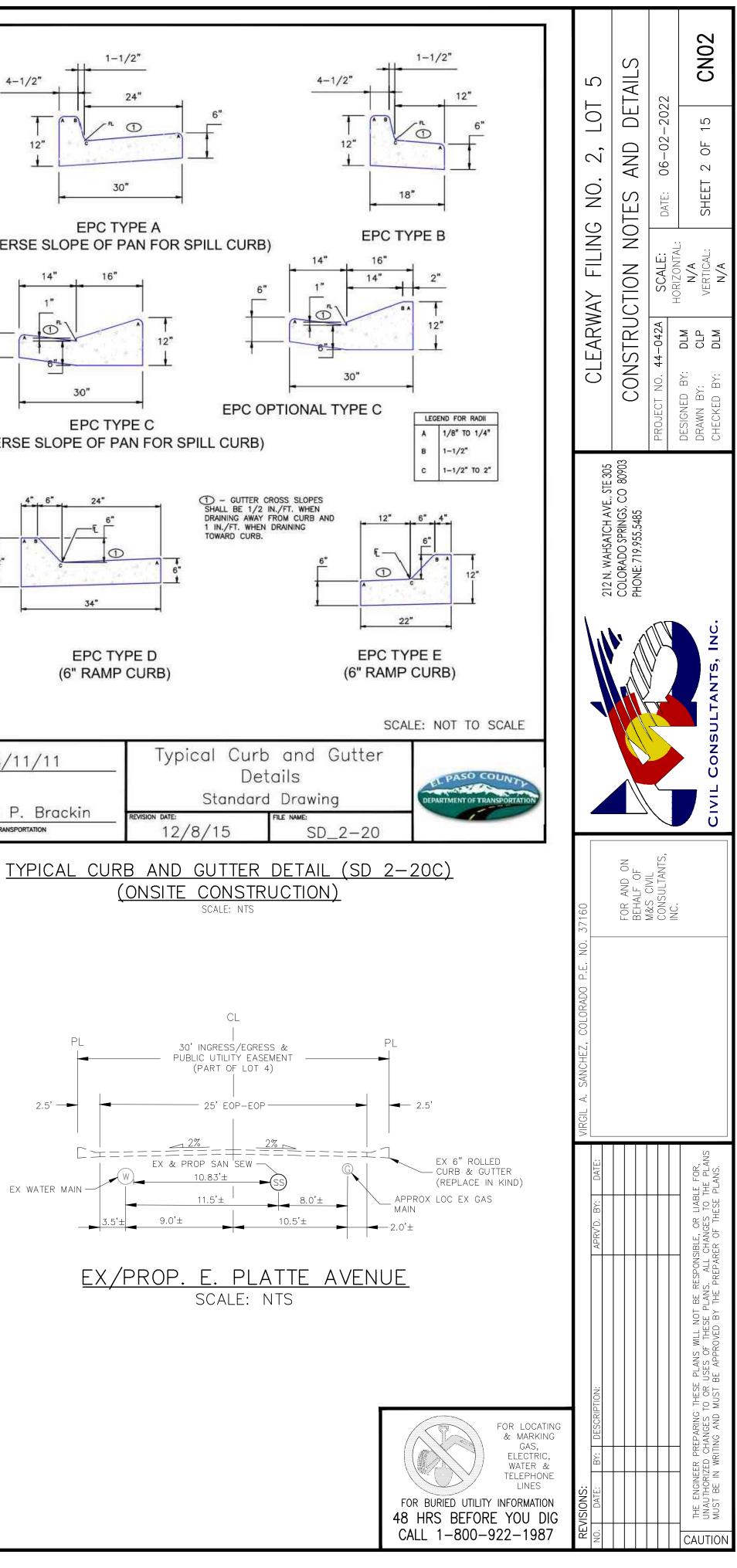
- CONTROL DEVICES (MUTCD).
- COMMUNITY DEVELOPMENT.

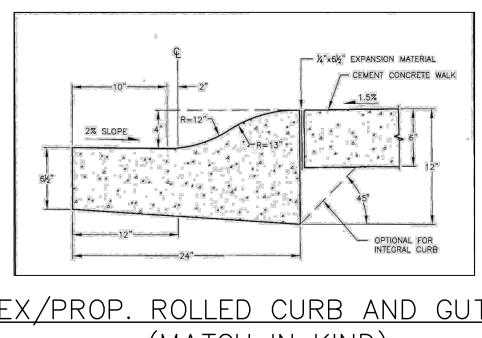
- HIGHWAY SIGNS"
- STEEL POST SLIPBASE DESIGN.

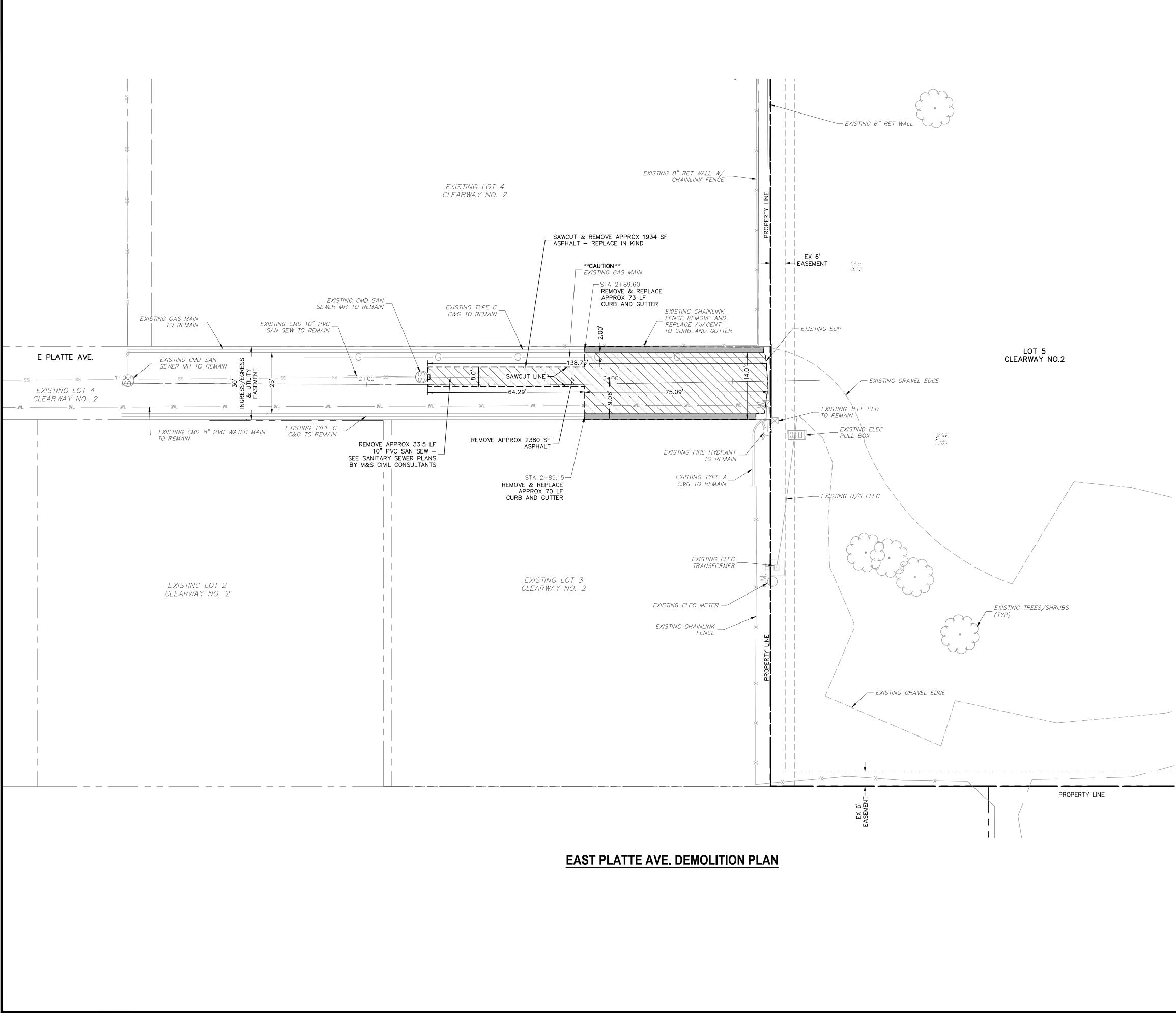
- S-627-1.

SPECIAL NOTE:

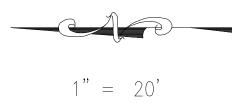


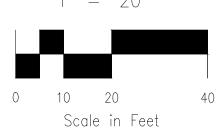




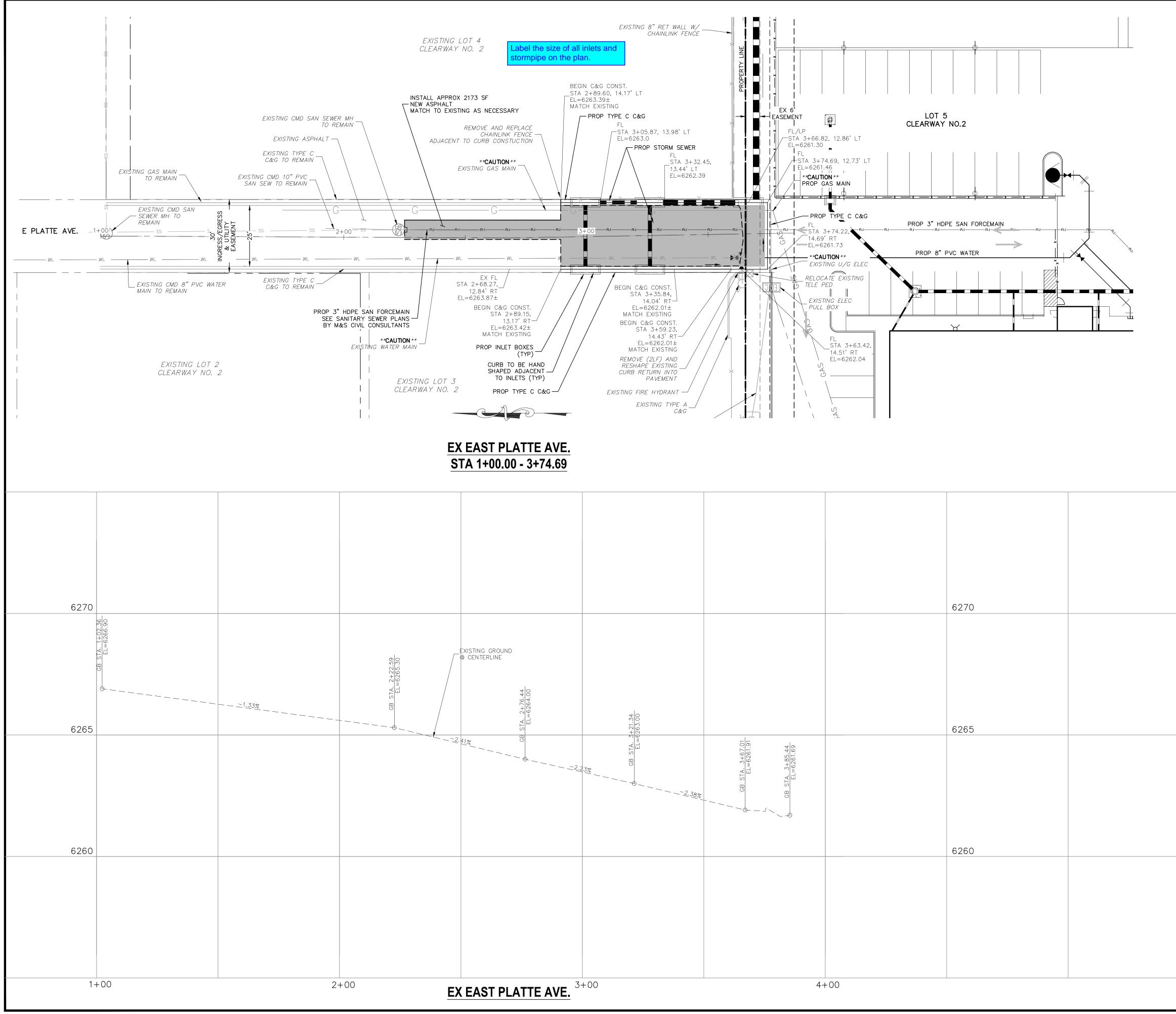


ABBREVIATION	LEGEND				-
CL CENTERLINE INTERSECTION FL-FL FLOWLINE INTERSECTION BT BEGIN TRANSITION ET END TRANSITION PC POINT OF CURVE	LT LEFT RT RIGHT FL FLOWLINE TBC TOP BACK OF CURB XPAN CROSSPAN	L ک		22	SI01
PCCPOINT OF COMPOUND CURVEPCRPOINT OF CURB RETURNPRCPOINT OF REVERSE CURVEPTPOINT OF TANGENTELELEVATION	STD STANDARD SHT SHEET P&P PLAN AND PROFILE C&G CURB AND GUTTER W WEST	2, LOT	PLAN	06-02-2022	3 OF 15
CDS CUL-DE-SAC KN KNUCKLE LP LOW POINT N NORTH S SOUTH	E EAST ROW RIGHT OF WAY EOP EDGE OF PAVEMENT WTR WATER SAN SANITARY SEWER	G NO.	ON PI	DATE:	SHEET
HP HIGH POINT PUB PUBLIC C&G CURB AND GUTTER CMD CHEROKEE METRO DISTRICT	PVT PRIVATE WV WATER VALVE PED PEDESTRIAN	'AY FILING	DEMOLITION	SCALE: HORIZONTAL	1'=20' VERTICAL: N/A
LEGEN	<u>D</u>	CLEARWAY		44-042A	DLM CLP DLM
SAWCUT LINE SITE BOUNDARY ADJACENT PROPERTY EXIST STORM SEWER LINE EX. UNDERGROUND ELECTRIC LINE		CL		NO.	DESIGNED BY: DRAWN BY: CHECKED BY:
EX. SANITARY SEWER LINE EX. WATER LINE EX. GAS MAIN EX. FENCE EASEMENT	SS WL G X	CH AVE., STE 305	COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485		
EX. STORM MH EX. SANITARY MANHOLE EX. WATER VALVE	SI SS	212 N. WAHSA	COLORADO SF PHONE: 719.95		
PAVEMENT DEMOLITION AREA			`		INC.
C&G DEMOLITION AREA					CIVIL CONSULTANTS, I
		NO. 37160	FOR AND ON BEHALF OF	M&S CIVIC CONSULTANTS, INC.	



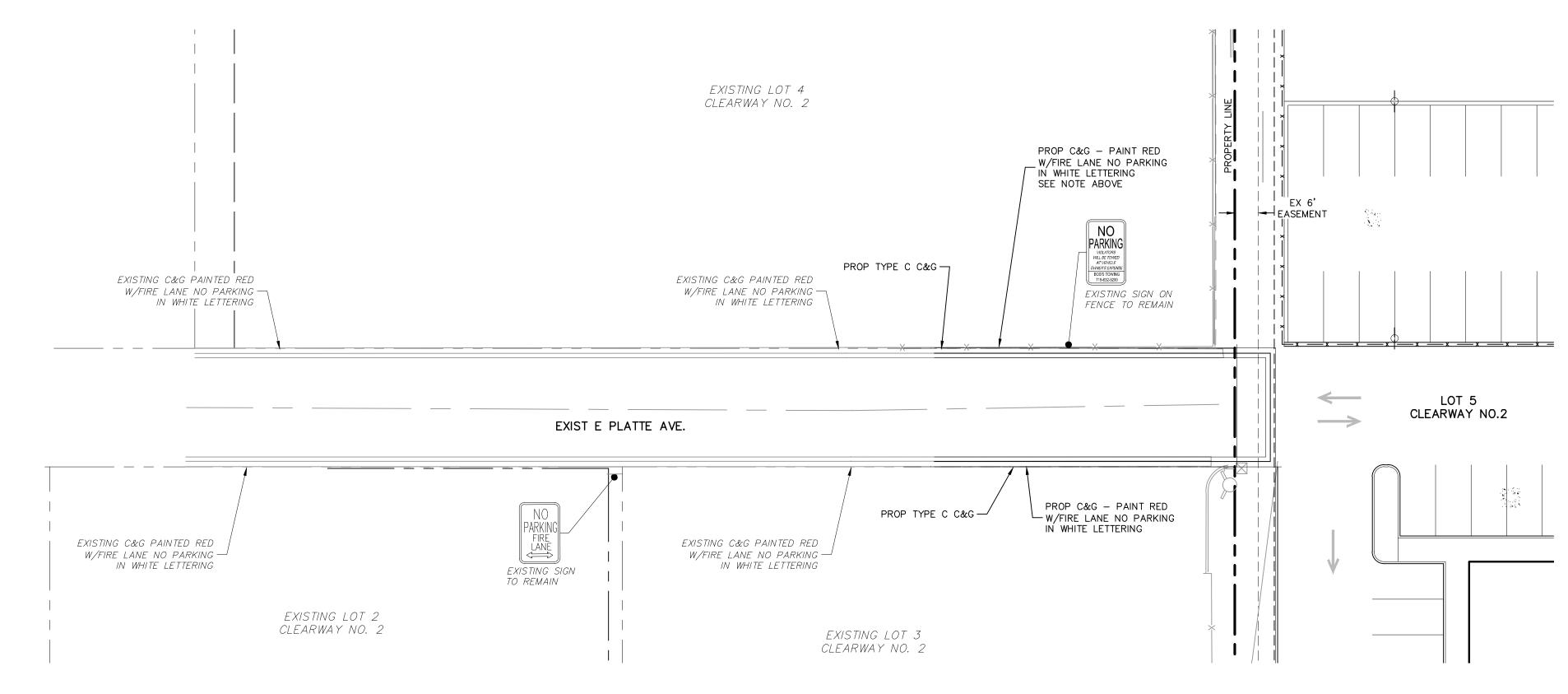


CAUTION



		J
CL CENTERLINE INTERSECTION FL-FL FLOWLINE INTERSECTION BT BEGIN TRANSITION ET END TRANSITION PC POINT OF CURVE PCC POINT OF COMPOUND CURVE PCR POINT OF CURB RETURN PRC POINT OF REVERSE CURVE PT POINT OF TANGENT EL ELEVATION CDS CUL-DE-SAC KN KNUCKLE LP LOW POINT N NORTH S SOUTH HP HIGH POINT PUB PUBLIC C&G CURB AND GUTTER CMD CHEROKEE METRO DISTRICT	LT LEFT RT RIGHT FL FLOWLINE TBC TOP BACK OF CURB XPAN CROSSPAN STD STANDARD SHT SHEET P&P PLAN AND PROFILE C&G CURB AND GUTTER W WEST E EAST ROW RIGHT OF WAY EOP EDGE OF PAVEMENT WTR WATER SAN SANITARY SEWER PVT PRIVATE WV WATER VALVE PED PEDESTRIAN	IAY FILING NO. 2, LOT 5 ET IMPROVEMENT PLAN SCALE: HORIZONTAL: 1'=20' VERTICAL: 1''=2' SHEET 4 OF 15 SIO2
SAWCUT LINE	<u> </u>	CLEARWAY STREET 0. 44-042A 3Y: DLM CLP CLP CLP VE 1,
SITE BOUNDARY ADJACENT PROPERTY EXIST STORM SEWER LINE EX. UNDERGROUND ELECTRIC LINE EX. SANITARY SEWER LINE EX. WATER LINE		CL PROJECT NO. 4- DESIGNED BY: DRAWN BY: CHECKED BY:
EX. GAS MAIN EX. FENCE EASEMENT	G X	VE., STE 305 5, CO 80903
PROP C&G EX. STORM MH EX. SANITARY MANHOLE EX. WATER VALVE	ST SS M	212 N. WAHSATCH AVE., STE 305 COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485
NEW ASPHALT - MATCH EXISTING 1" = 20' 0 10 20 40 Scale in Feet		CIVIL CONSULTANTS, INC.
		C Z
		57160 FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
		COLORADO P.E
		SANCHEZ, COL
		VIRGIL A. SA
		APRV'D. BY: BLE, OR LIABL
		BE RESPONSIE LANS. ALL C THE PREPARE
		APRV'D. BY: DATE: APRV'D. BY: DATE: APRV'D. BY: CATE: APRV'D. BY: DATE: APRV'D. APRV'D. BY: APRV'D. APVV'D.
		DESCRIPTION: PARING THESE PLAN ANGES TO OR USES G AND MUST BE AF
		ISIONS: DATE: BY: DESCRIPTION: DATE: BY: DESCRIPTION: THE ENGINEER PREPARING THESE UNAUTHORIZED CHANGES TO OR MUST BE IN WRITING AND MUST F





NOTE TO CONTRACTOR:

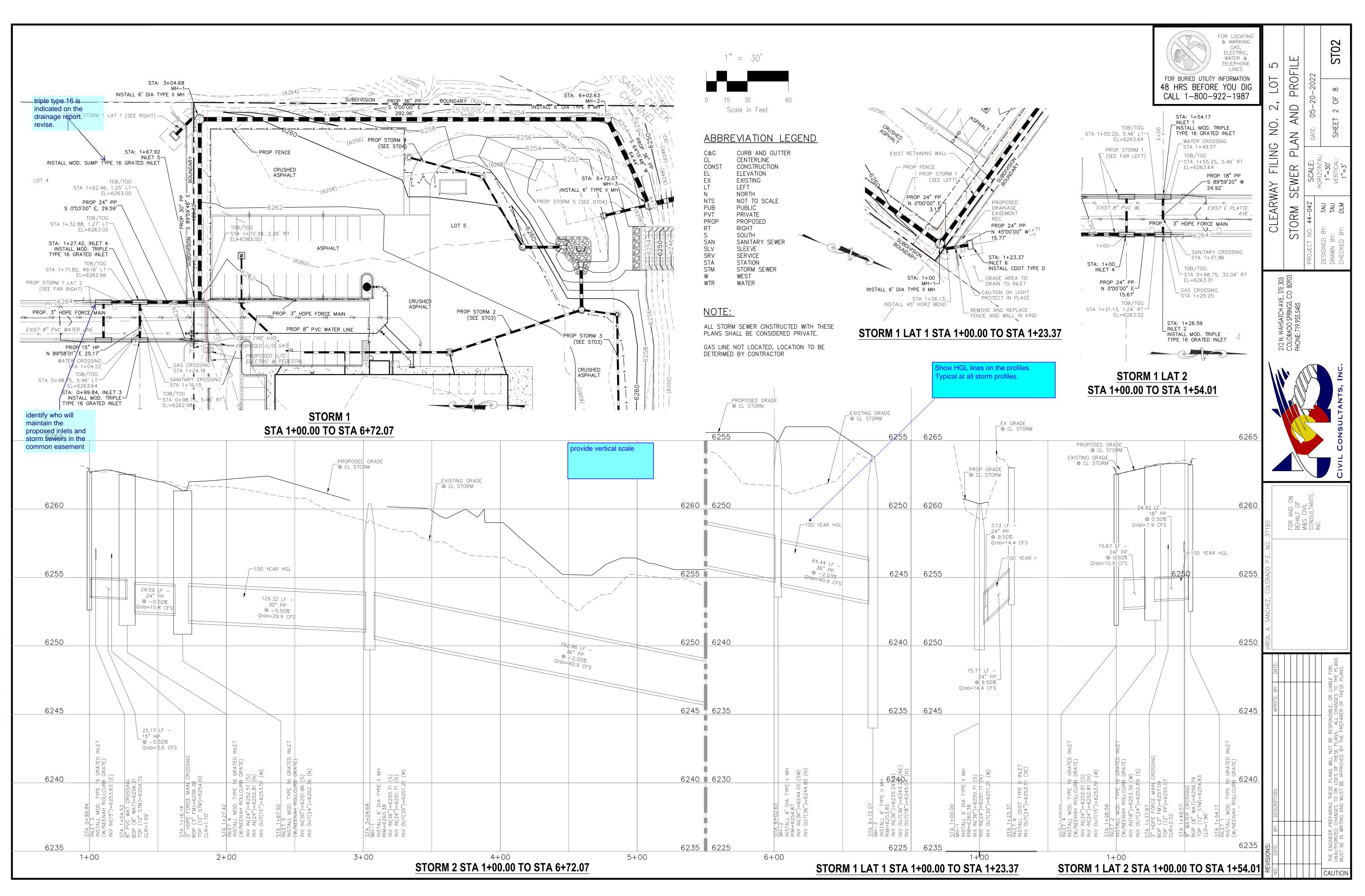
 ALL SIGNAGE INSTALLATION IS TO BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

<u>NOTE:</u>

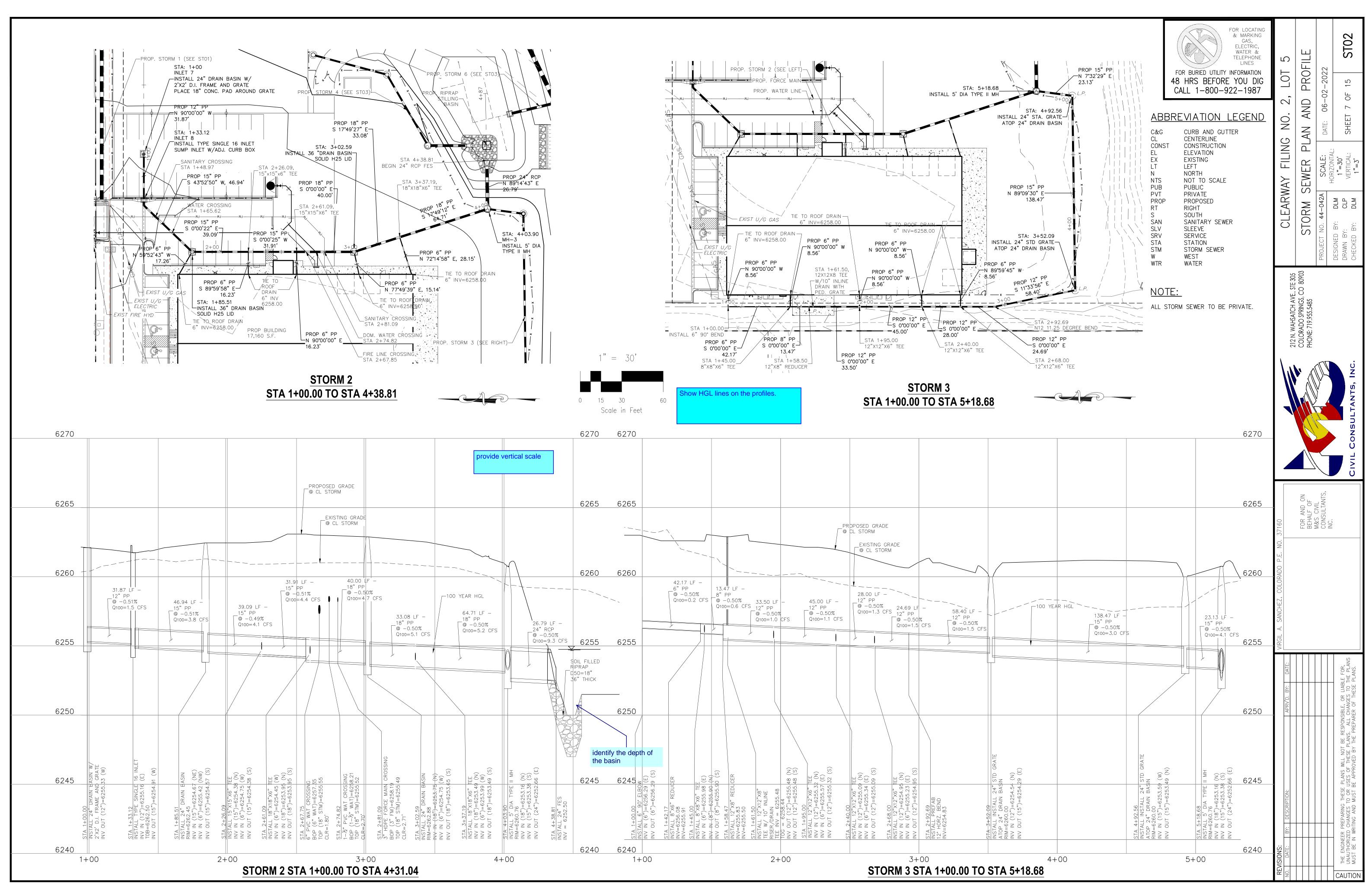
STRIPING ALONG CURB FACE AND TOP OF CURB SHALL BE:

- 1. 6" RED TRAFFIC PAINT STRIPE
- 4" WHITE REFLECTIVE LETTERING/WORDING WITH 3/4" STROKE STATING NO PARKING FIRE LANE
- 3. LETTERING/WORDING SPACED EVERY 25'

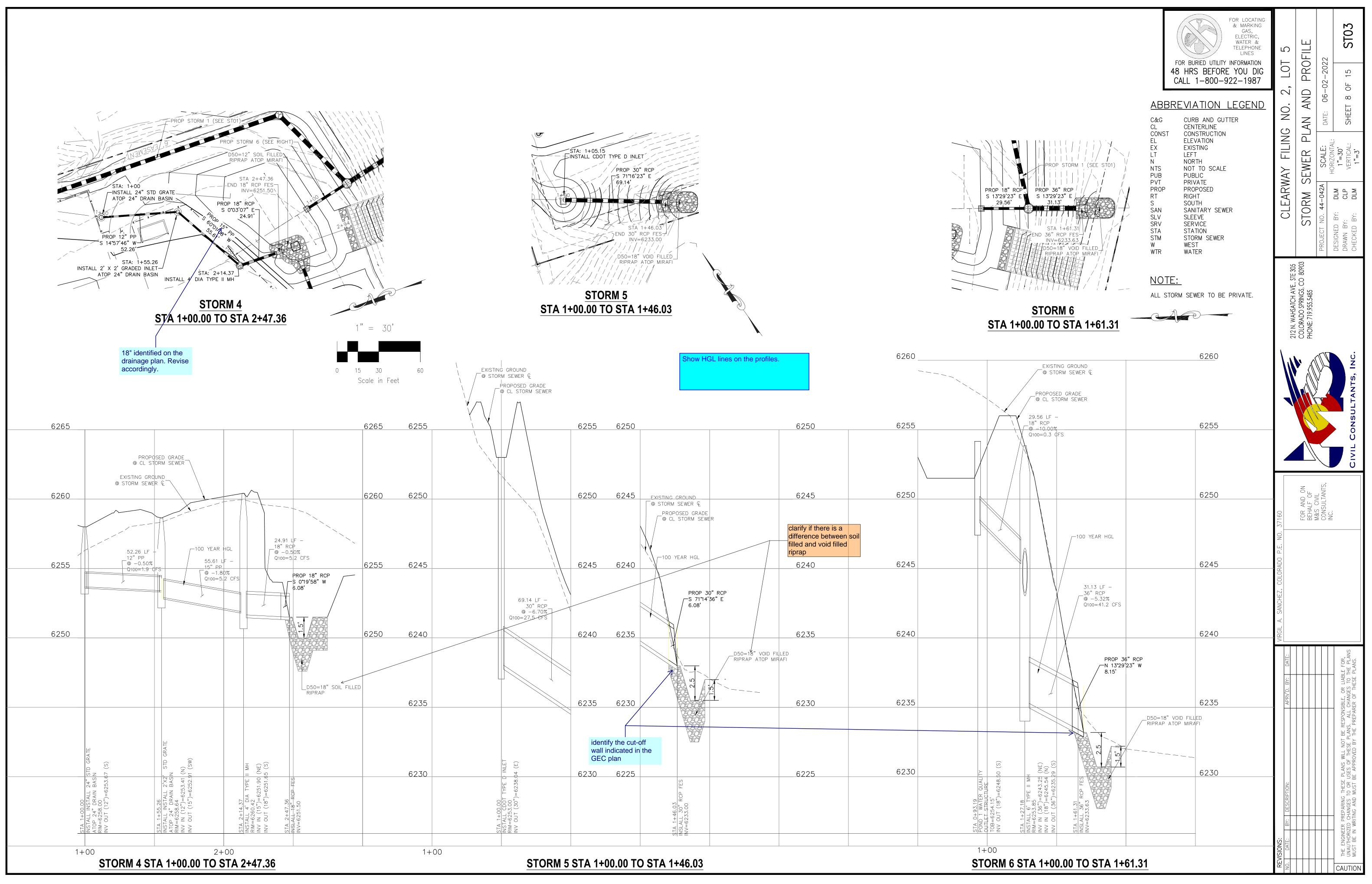
CLCENTERLINE INTERSECTIONFL-FLFLOWLINE INTERSECTIONBTBEGIN TRANSITIONETEND TRANSITIONPCPOINT OF CURVEPCCPOINT OF COMPOUND CURVEPCRPOINT OF CURB RETURNPRCPOINT OF REVERSE CURVEPTPOINT OF TANGENTELELEVATIONCDSCUL-DE-SACKNKNUCKLELPLOW POINTNNORTHSSOUTHHPHIGH POINTPUBPUBLICC&GCURB AND GUTTERCMDCHEROKEE METRO DISTRICTLECEESITE BOUNDARYADJACENT PROPERTYEX.FENCEEASEMENTPROP C&G	LT LEFT RT RIGHT FL FLOWLINE TBC TOP BACK OF CURB XPAN CROSSPAN XPAN CROSSPAN XPAN CROSSPAN XPAN CROSSPAN XPAN CROSSPAN SHT SHEET P&P PLAN AND PROFILE C&G CURB AND GUTTER W WEST E EAST ROW RIGHT OF WAY EOP EDGE OF PAVEMENT WTR WATER SAN SANITARY SEWER PVT PRIVATE WV WATER VALVE PED PEDESTRIAN	CLEARWAY FILING NO. 2, LOT 5STRIPING AND SIGNAGE PLANPROJECT NO. 44-042ADESIGNED BY:DATE:DESIGNED BY:DLMDESIGNED BY:DLMDESIGNED BY:DLMT=20'CHECKED BY:DLMT=2'CHECKED BY:DLMDRAWN BY:CLECHECKED BY:DLMDIAWN BY:CLECHECKED BY:DLMDIAMN BY:CLECHECKED BY:DLMCHECKED BY:DLM<
	(SI)	212 N. WAHSATCH AVE., STE 305 COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485
		CIVIL CONSULTANTS, INC.
		VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160 FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
	1'' = 20'	ISIONS: DATE: BY: DESCRIPTION: APRV'D. BY: DATE: DATE: BY: DESCRIPTION: DATE: DATE: THE ENCINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS. MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



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File: 0: \44042A-Wire Nut\Hammers\Dwg\Const Dwg\Storm\44042A-ST03.dwg Plotstamp: 6/3/2022 8:3:

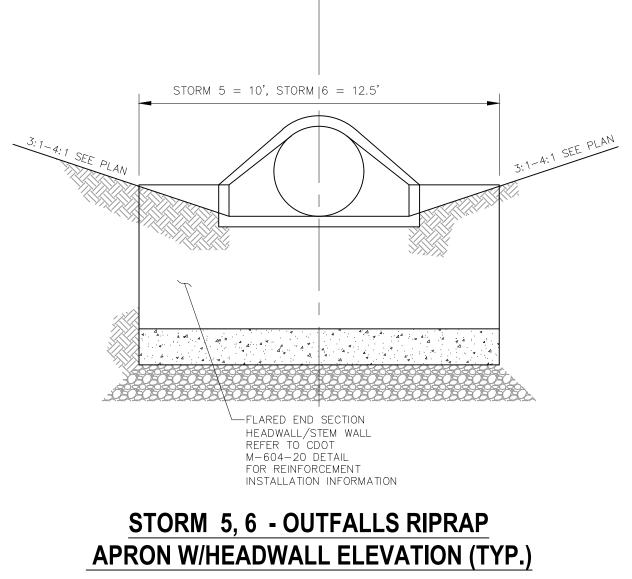


STANDARD CONSTRUCTION NOTES:

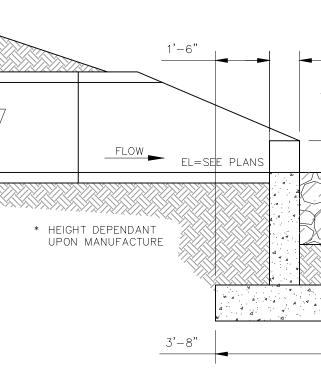
- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- 3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIME INCLUDING THE FOLLOWING: 3.1 EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - 3.2 CITY OF COLORADO SPRINGS/EL PASO COUNTY ENGINEERING CRITERA MANUAL VOLUMES 1 AND 2.
 - 3.3 COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- 3.4 CDOT M&S STANDARDS.
- 4. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ACCURACY SHOW EXISTING CONDITION BOTH ONSITE AND OFFSITE ON THE CONSTRUCTION PLANS. ANY MODIFICATION NECESSARY DUE TO CONFLICT OMISSIONS OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPERS RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORM WATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, US ARMY CORPS OF ENGINEER ISSUED 401 AND/OR 404 PERMITS AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 6. ANY TEMPORARY SIGNAGE AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOW AND MUTCD CRITERIA.
- 7. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 8. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFFSITE DISTURBANCE GRADING, OR CONSTRUCTION.

STORM SEWER GENERAL NOTES

- 1. ALL STATIONING IS ALONG STORM SEWER CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE INVERT UNLESS OTHERWISE INDICATED. suggest adding
- 2. ALL STORM SEWER BENDS AND WYES SHOWN ON THE PLAN SHALL BE PREFABRICATED.
- 3. HORIZONTAL AND VERTICAL BENDS ARE INDICATED ON THE PLANS.
- 4. JOINTS SHALL BE IN ACCORDANCE WITH ASTM C443 "STANDARD SPECIFICATIONS FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKET." IN NO CASE SHALL THE MAXIMUM JOINT OPENING FOR STRAIGHT ALIGNMENT EXCEED 1 INCH OR ONE AND ONE HALF INCH ON CURVED ALIGNMENT.
- 5. INLET DIMENSIONS SHOWN ON PLANS REFER TO DISTANCES FROM INSIDE FACES OF BOX BETWEEN THE WIDTHS AND LENGTHS.
- 6. MANHOLE WIDTHS AND LENGTHS SHOWN ON PLAN REFER TO THE EXTERIOR WALL DIMENSIONS.
- 7. ALL STORM SEWER SHALL BE A MINIMUM OF CLASS III REINFORCED CONCRETE PIPE SPECIFIC SEGMENTS OF STORM SEWER SHALL BE REQUIRED TO BE CONSTRUCTED OF A MINIMUM OF 5000 PSI CONCRETE DUE TO EXCESSIVE VELOCITIES. REFER TO ADDITIONAL NOTES WITHIN CONSTRUCTION PLANS.
- 8. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
- 9. THE MH RING (FRAME) SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA.
- 10. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
- 11. CAST IN PLACE MANHOLES SHALL BE CLASS B CONCRETE.
- 12. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3'-6" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
- 13. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI. VERTICAL STEEL SHALL BE PLACED AT 🤅 OF WALL. ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE.
- 14. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
- 15. STUB-OUTS SHALL EXTEND 4 FT MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
- 16. CHECK WITH THE LOCAL GOVERNMENT AUTHORITY FOR ANY ADDITIONAL STORM SEWER SPECIFICATIONS, DETAILS, OR REGULATIONS.
- 17. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.
- 18. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PREFABRICATED STRUCTURES TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.



NOT TO SCALE



STORM 5,6 - OUTFALL RIPRAP APRON W/HEADWALL SECTION (TYP.) NOT TO SCALE

U.N.O. as not all

pipes indicated are

SOIL RIPRAP NOTES:

- 1. THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH SIXTY FIVE PERCENT (65%)
- 2. SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.
- 3. CONTRACTOR SHALL COOPERATE WITH ENGINEER IN OBTAINING AND PROVIDED SAMPLES OF ALL
- 4. CONTRACTOR SHALL SUBMIT CERTIFIED LABORATORY TEST CERTIFICATES FOR ALL ITEMS REQUIRE
- 5. RIPRAP USED SHALL BE THE TYPE DESIGNATED ON THE DRAWINGS AND SHALL CONFORM TO TA
- 6. THE RIPRAP DESIGNATION AND TOTAL THICKNESS OF RIPRAP SHALL BE AS SHOWN ON THE THAN THE THICKNESS OF THE RIPRAP.
- 7. NEITHER WIDTH NOR THICKNESS OF A SINGLE STONE OF RIPRAP SHALL BE LESS THAN ONE-THI
- 8. THE SPECIFIC GRAVITY OF THE RIPRAP SHALL BE TWO AND ONE-HALF (2.5) OR GREATER.
- 9. MINIMUM DENSITY FOR ACCEPTABLE RIPRAP SHALL BE ONE HUNDRED AND SIXTY FIVE (165) POL
- 10. RIPRAP SPECIFIC GRAVITY SHALL BE ACCORDING TO THE BULK-SATURATED, SURFACE-DRY BAS
- 11. BROKEN CONCRETE OR ASPHALT PAVEMENT SHALL NOT BE ACCEPTABLE FOR USE IN THE WORK
- 12. ROUNDED RIPRAP (RIVER ROCK) IS NOT ACCEPTABLE, UNLESS SPECIFICALLY DESIGNATED ON THE

STRUCTURAL CONCRETE NOTES:

- 1. ALL CONSTRUCTION INVOLVING THE PLACEMENT OF STRUCTURAL CONCRETE SHALL BE COMPLET SUPPLEMENTED BY THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION
- 2. STEEL REINFORCING SHALL BE GRADE 60 FOR ALL REINFORCING STEEL GREATER THAN #4. SPL UNLESS OTHERWISE SPECIFIED: BAR SIZE #4 #5 #6
- SPLICE LENGTH 1'-9" 2'-2" 2'-7" 3'-4" 4'-3" ALL REINFORCING SHALL HAVE A 2-INCH MINIMUM COVER UNLESS OTHERWISE SPECIFIED. ALL RE
- 3. CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 4,000 PS II PORTLAND CEMENT. ALL EXPOSED CORNERS SHALL BE FORMED WITH A 3/4" CHAMFER UNLES
- 4. EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213.
- 5. BACKFILL AGAINST STRUCTURES SHALL NOT COMMENCE UNTIL ALL SUPPORTING DIAPHRAGMS AR STRENGTH. BACKFILL SHALL BE PLACED EQUALLY ON EACH SIDE OF RETAINING WALL STRUCTURI
- 6. FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER WITH A 24-HOUR PLACEMENT OF CONCRETE IN THE ABSENCE OF TESTING SHALL BE COMPLETED AT THE SOLE RIS
- 7. PRIOR TO THE PLACEMENT OF CONCRETE IN AREAS WHERE SOIL IS PRESENT, THE SOIL SHALL CONTENT SHALL BE ADJUSTED TO WITHIN PLUS OR MINUS 2 PERCENT OF THE OPTIMUM MOISTU COMPACTION (AASHTO-T-180).

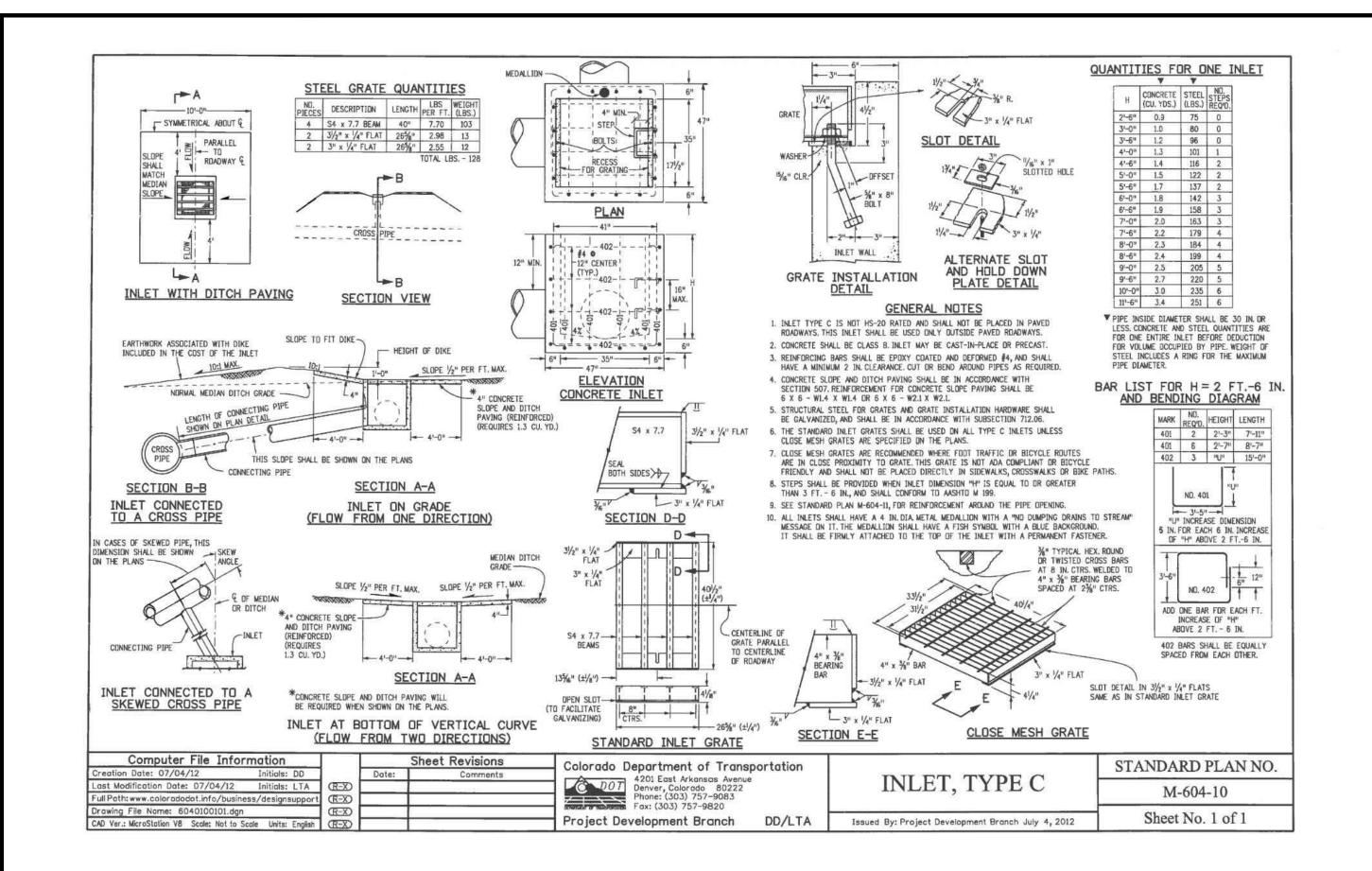
ABBREVIATIONS EC -- EPOXY COATED O.F. -- OUTSIDE FACE E.F. -- EACH FACE E.W. -- EACH WAY I T.O.C. -- TOP OF CONCRETE B.O.C. -- BOTTOM OF CONCRETE CONT. -- CONTINUOUS

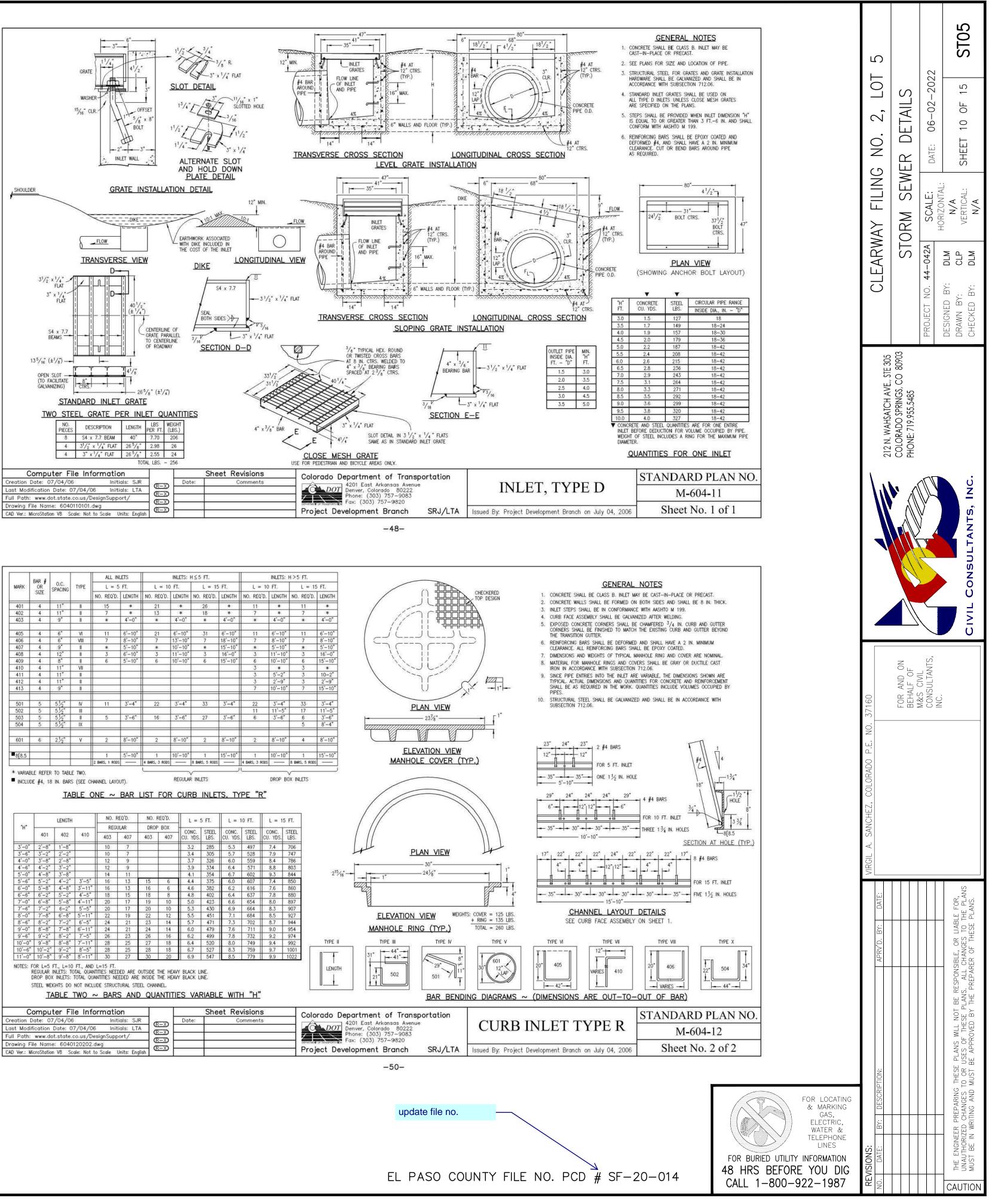
SOIL RIPRAP - D50=18", 36" THICK 0% REFER TO CDOT

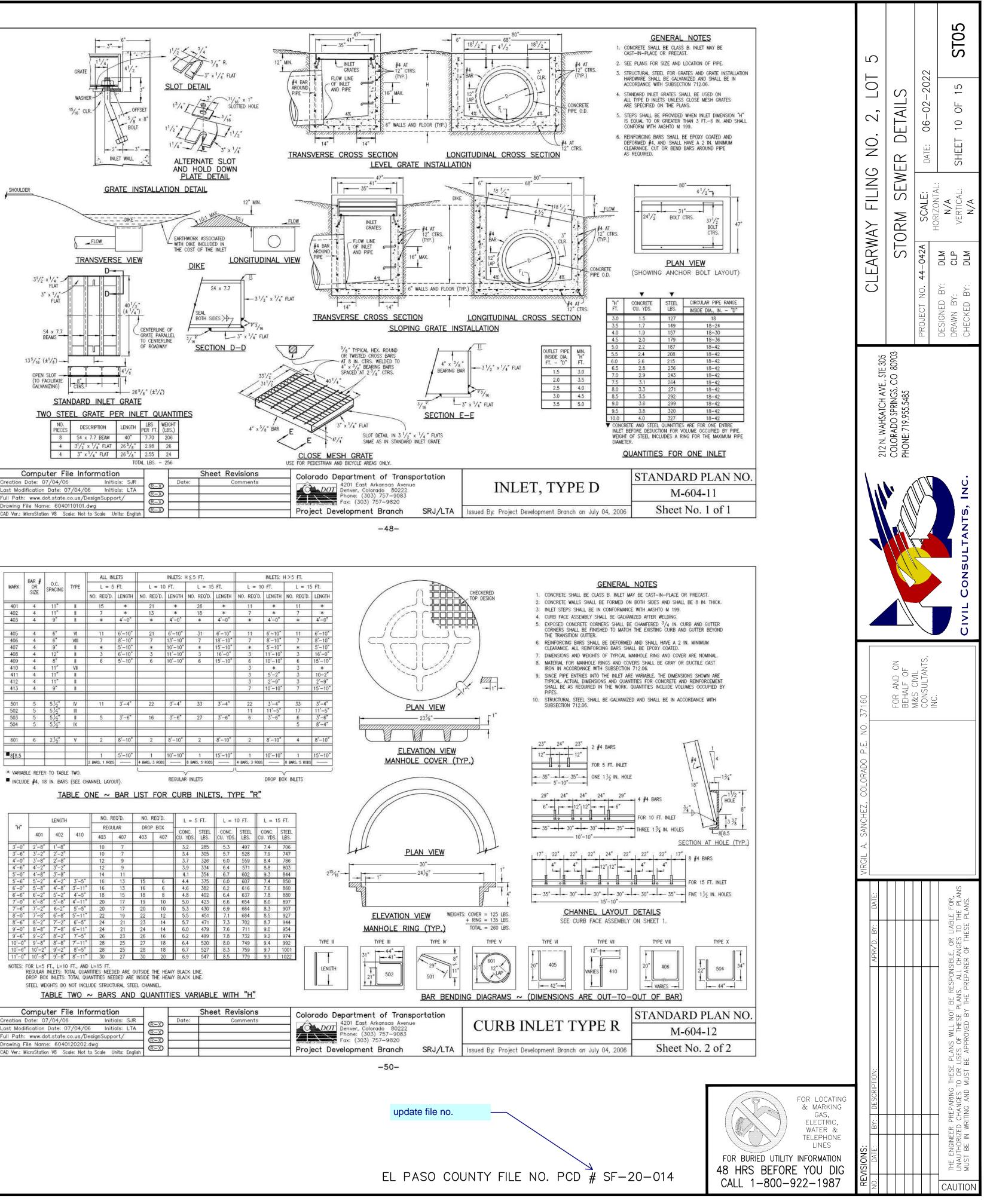
INSTALLATION INFORMATION

M-604-20 DETAIL FOR REINFORCEMENT

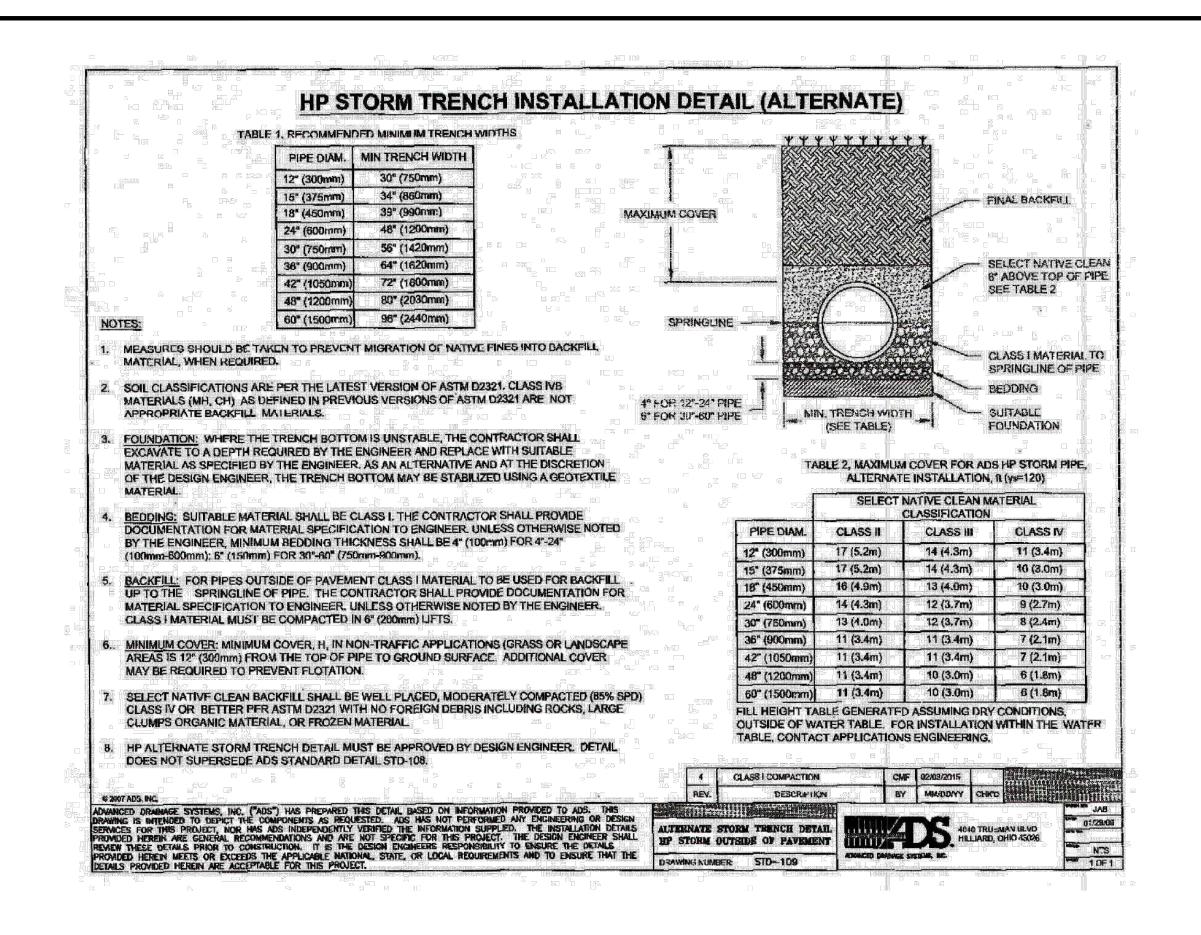
RIPRAP AND THIRTY FIVE PERCENT (35%) SOIL BY VOLUME.	Ľ	C	DETAILS		ST04
SPECIFIED MATERIALS.	L L	$\frac{1}{2}$	DET	-2022	15
RED FOR SOIL RIPRAP.	- -			-02-	OF 、
ABLE SHOWN TO THE RIGHT. DRAWINGS. THE MAXIMUM STONE SIZE SHALL NOT LARGER		.)	ES AND	DATE: 06	SHEET 9
IIRD (汚) OF ITS LENGTH.			SEWER NOTES		
DUNDS PER CUBIC FOOT.			MEF M	SCALE:	VERTICAL: N/A N/A
SIS, IN ACCORDANCE WITH AASHTO T85.	, V M d				
K. HE DRAWINGS.	CIFARWAY		STORM	. 44-	BY: DLM BY: DLM
ED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, AND AS IS FOR ROADWAY AND BRIDGE CONSTRUCTION.			S	PROJECT	DESIGNED B DRAWN BY: CHECKED B'
LICING, LAP SPLICING SHALL BE MINIMUM IN THE FOLLOWING TABLE	Γ	., STE 305	CO 80903		
REINFORCED STEEL TO BE EPOXY COATED.		CH AVE	RINGS, (.5485		
SI AT 28 DAYS. ALL CONCRETE PLACED AGAINST SOIL SHALL BE TYPE SS OTHERWISE SPECIFIED.		2 N. WAHSATO	COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485		
RE IN PLACE AND CONCRETE HAS OBTAINED ITS FULL SEVEN DAY RES AND CUTOFF WALLS UNTIL THE FINAL GRADE IS REACHED.		212	O E		<u>v</u>
R MINIMUM NOTIFICATION FOR SOIL AND/OR CONCRETE TESTING. ISK OF THE CONTRACTOR.					s, Inc
BE SCARIFIED TO A MINIMUM DEPTH OF 6-INCHES. THE MOISTURE JRE CONTENT AND RECOMPACTED TO AT LEAST 95 PERCENT RELATIVE			P		LTANTS
F. —— INSIDE FACE N.F. —— NEAR FACE					CIVIL CONSULTANTS,
			0 ON	AL TANTS,	
	37160		FOR AND ON BEHALF OF	M&S CIV CONSUL	
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	SANCHEZ, COLORADO P.E.				
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& MARKING GAS.		BY: DESCI			ENGINEER PREPARING JTHORIZED CHANGES T BE IN WRITING ANE
ELECTŔIC, WATER & TELEPHONE LINES					THE ENGINEER PREPA UNAUTHORIZED CHANI MUST BE IN WRITING
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG	REVISIONS	DAIE:			THE EN UNAUTH MUST E
CALL 1-800-922-1987	REV	NO.			CAUTION

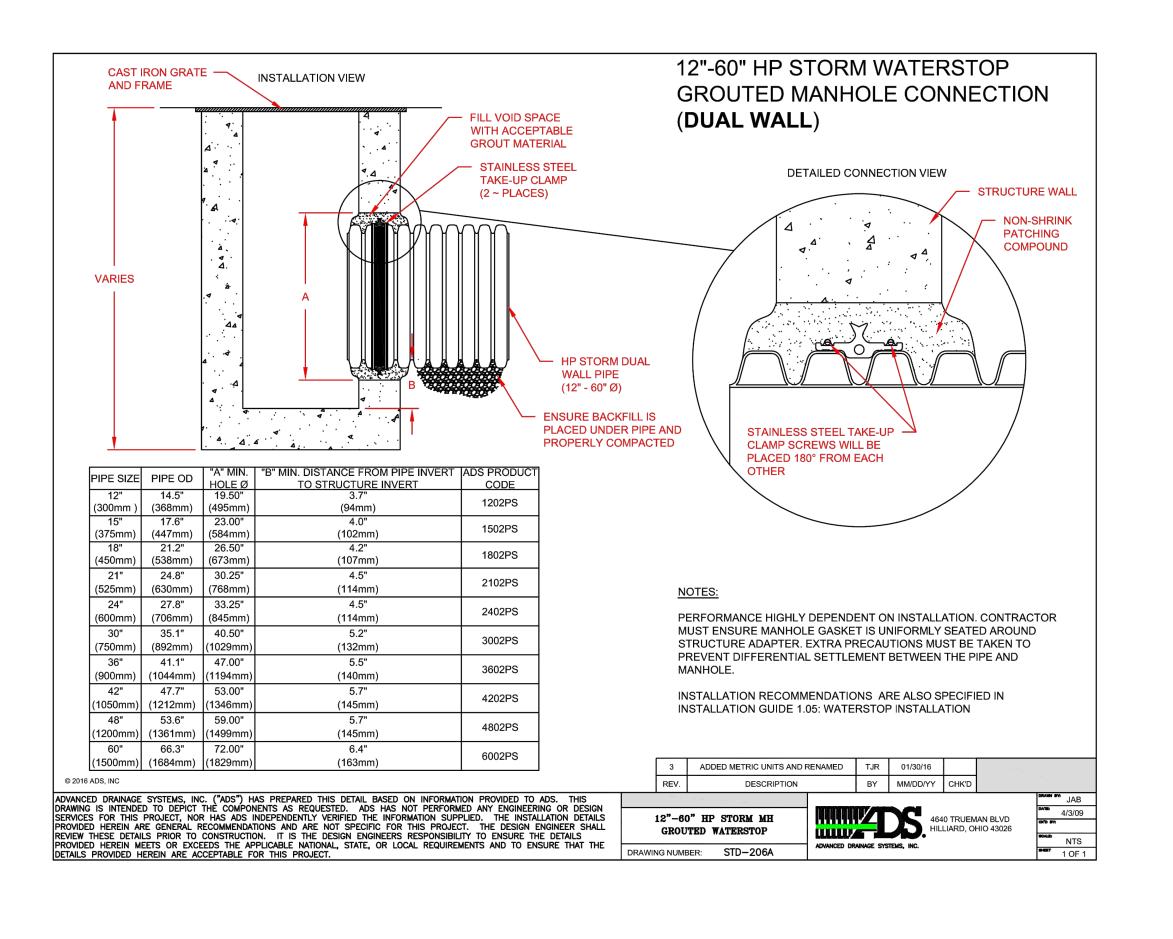


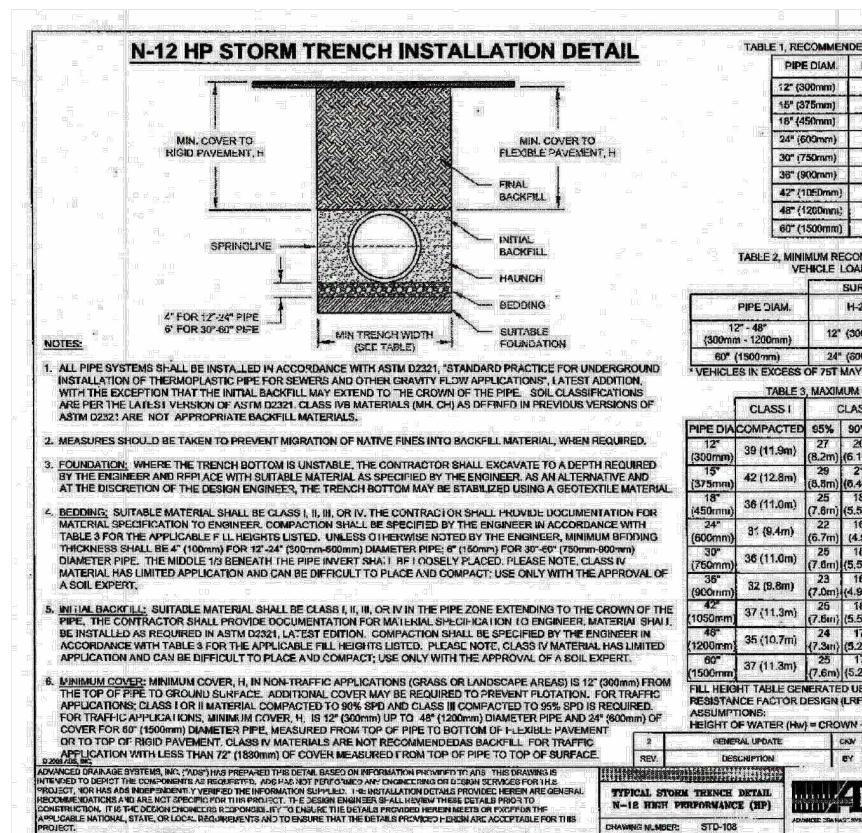


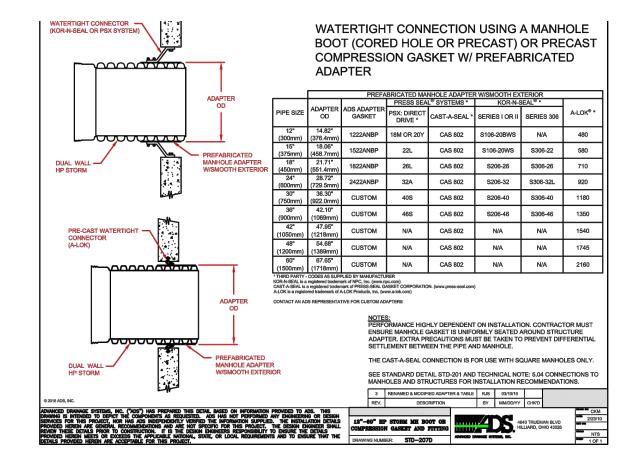


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Computer File Information		S	heet Revisions	Colorado Department of Transportation	T T
Creation Date: 07/04/06 Initials: S	R	Dote:	Comments		
Last Modification Date: 07/04/06 Initials: L1				4201 East Arkansas Avenue Denver, Colorado 80222	
Full Path: www.dot.state.co.us/DesignSupport/				Phone: (303) 757–9083	
Drawing File Name: 6040120202.dwg				DEPARTMENT OF TRANSPORTATION FORX: (303) 757-9820	35
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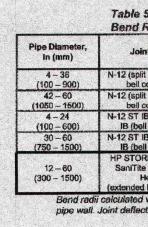
STORM SEWER GENERAL NOTES

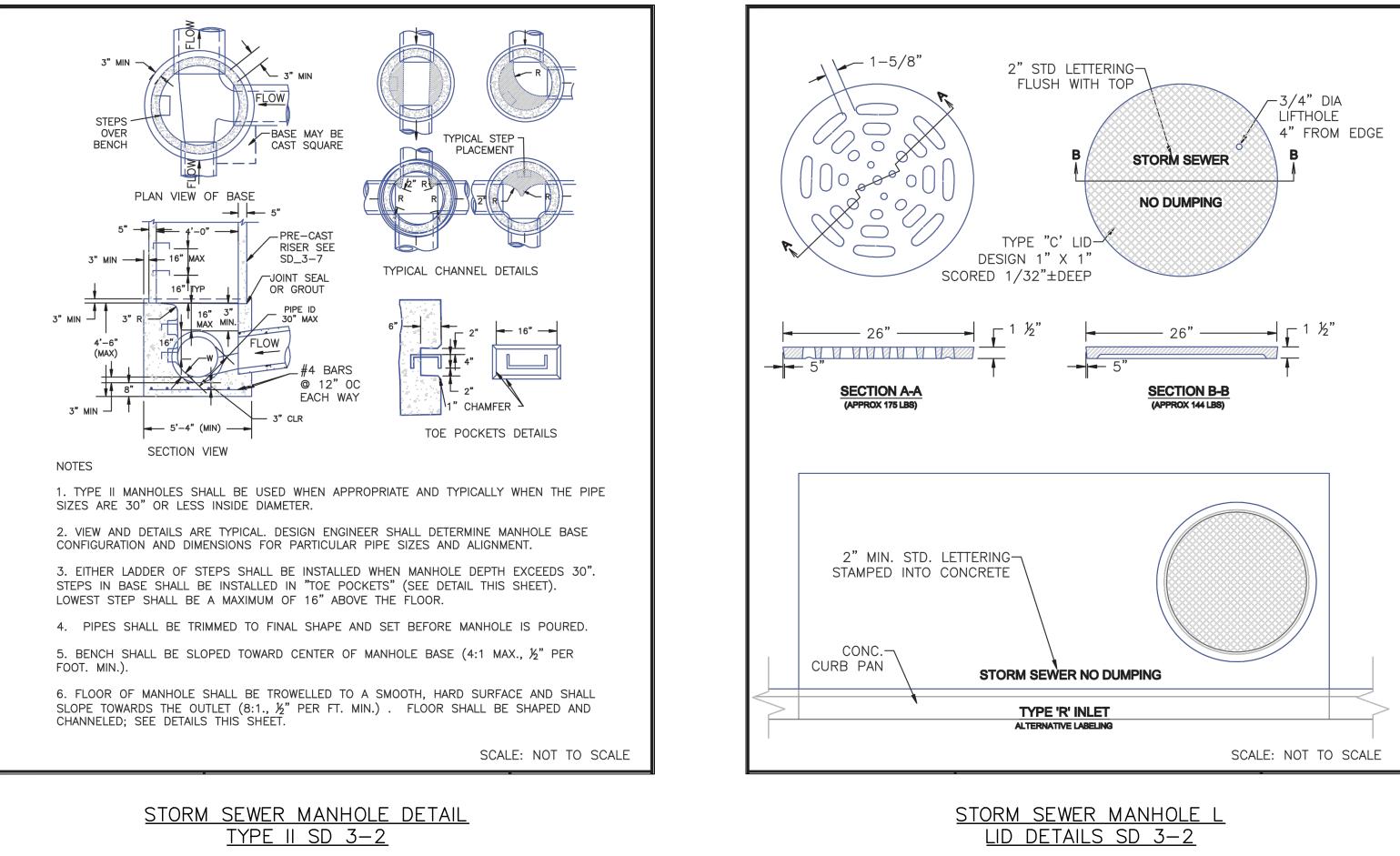
- 1. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER AND PIPE MANUFACTURE (ADS) TO DETERMINE ACCEPTABLE MATERIAL(S) FOR BACKFILL AND SHALL PRESENT A COPY OF THE TYPICAL TRENCH SECTION(S) TO EL PASO COUNTY ENGINEERING FOR ACCEPTANCE PRIOR TO CONSTRUCTION.
- 2. COMPACTION AND MATERIAL TESTING SHALL BE IN ACCORDANCE WITH EL PASO COUNTY SPECIFICATIONS.
- 3. THE SPECIFICATION AND GUIDELINES PROVIDED ON THIS PLAN ARE FOR INFORMATION PURPOSES ONLY, IT IS THE CONTRACTOR RESPONSIBILITY TO BE IN COMPLIANCE WITH THE INSTALLATION GUIDELINES PROVIDED BY THE PIPE MANUFACTURE.

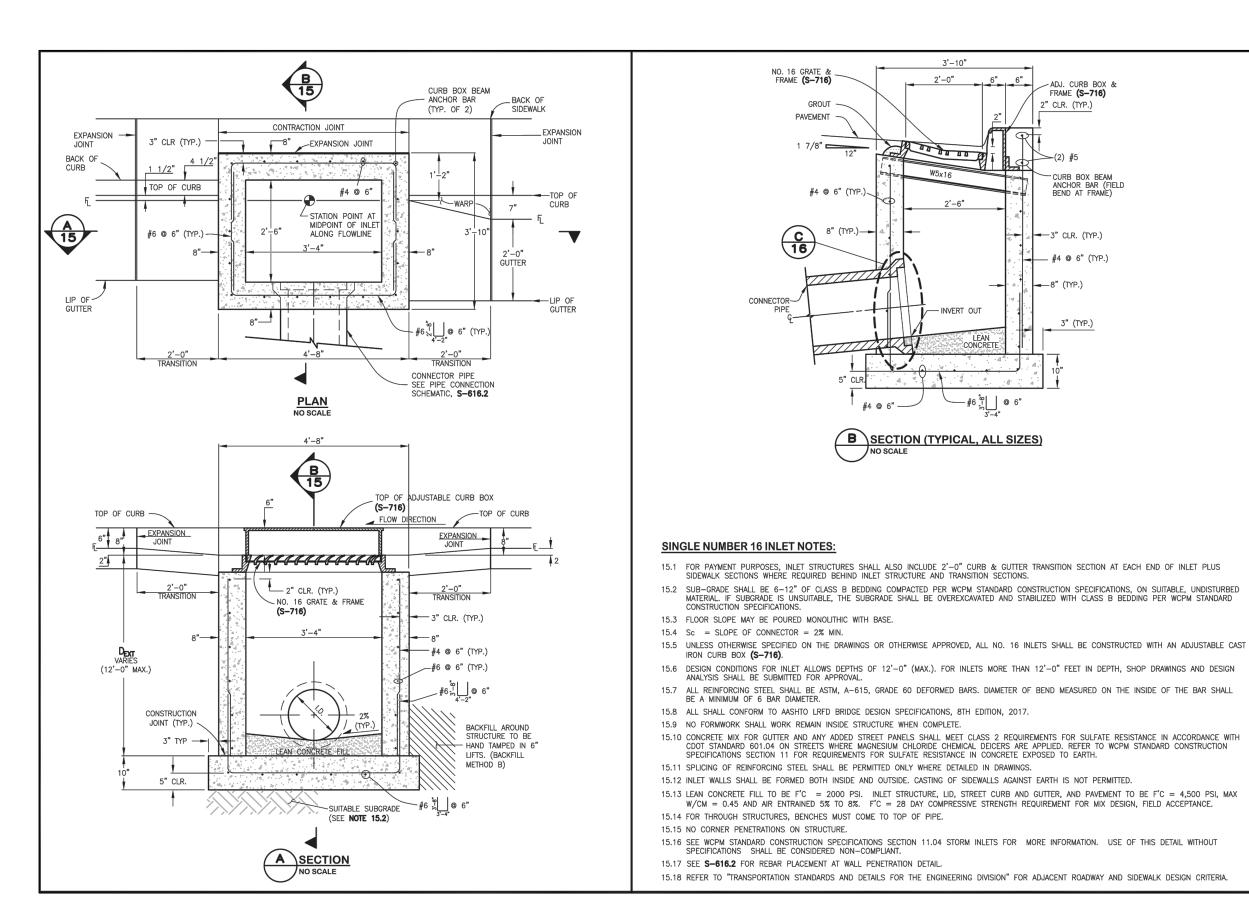
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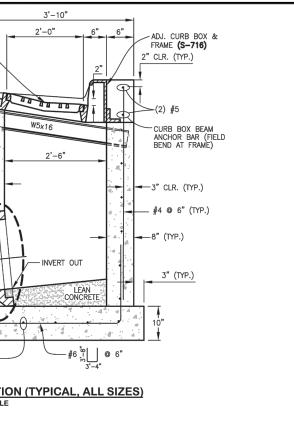
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	OT TO SCALE	CLEARWAY FILING NO. 2, LOT 5	STORM SEWER DETAILS	PROJECT NO. 44-042ASCALE:DATE:06-02-2022DESIGNED BY:DLMHORIZONTAL:N/AN/ADRAWN BY:CLPVAN/ASHEET 11 OF 15STOGCHECKED BY:DLMN/AN/ASHEET 11 OF 15STOG
UP 36 (11.0m) (7.5m) (5.5m) (4.3m) (4.3m) (4.3m) (3.7m) 38* 32 (9.8m) 23 16 11 16 12 11 10 27* 37 (11.3m) (7.5mi) (5.5mi) (4.0m) (3.5mi) (4.0m) (3.7mi) (3.7mi		212 N WARATCH AVE STE 305	COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485	CIVIL CONSULTANTS, INC.
 ADS HP STORM 12"- 60" PIPE SPECIFICATION Scope This specification describes 12- through 60-inch (300 to 1500 mm) ADS HP Storm pipe for use in gravity-flow storm drainage applications. Pipe Requirements Attribute Store Store Store		VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160	OR , EHAI	M&S CUNIL CONSULTANTS, INC.
<text></text>	FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987	REVISIONS: 10. DATE: BY: DESCRIPTION: APRV'D. BY: DATE:		THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

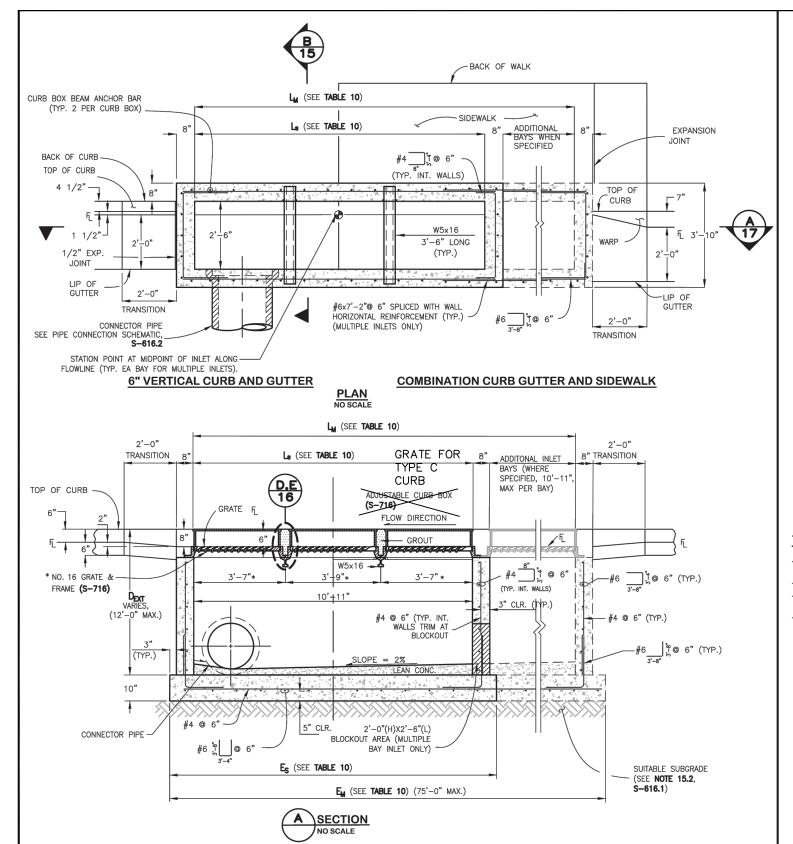
CALL 1-800-922-1987

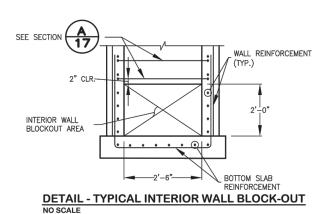












TRIPLE NUMBER 16 INLET NOTES:

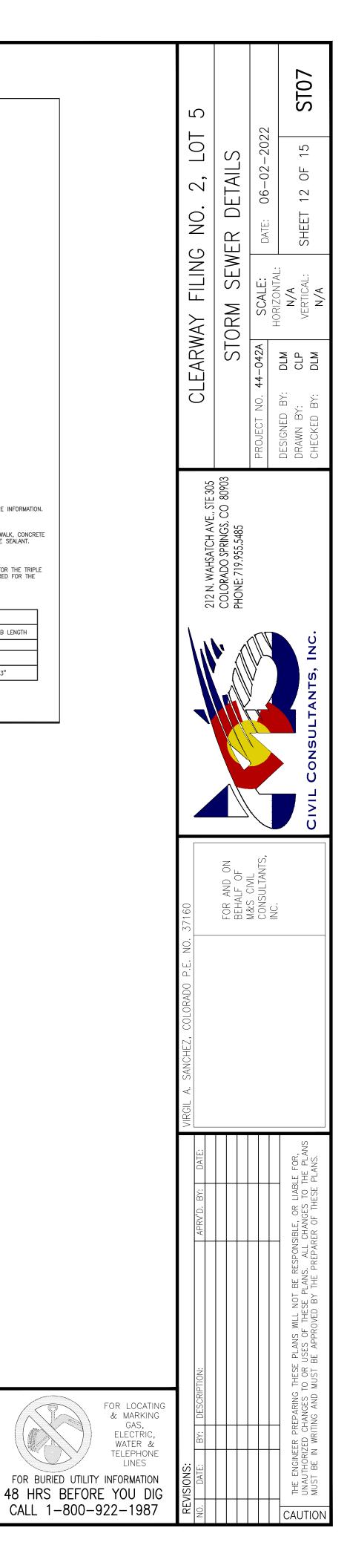
7.1 SEE WCPM STANDARD CONSTRUCTION SPECIFICATIONS SECTION 11.05 STORM INLETS FOR MORE INFORMATION. USE OF THIS DETAIL WITHOUT SPECIFICATIONS SHALL BE CONSIDERED NON-COMPLIANT. 17.2 SEE GENERAL NOTES ON S-616.1

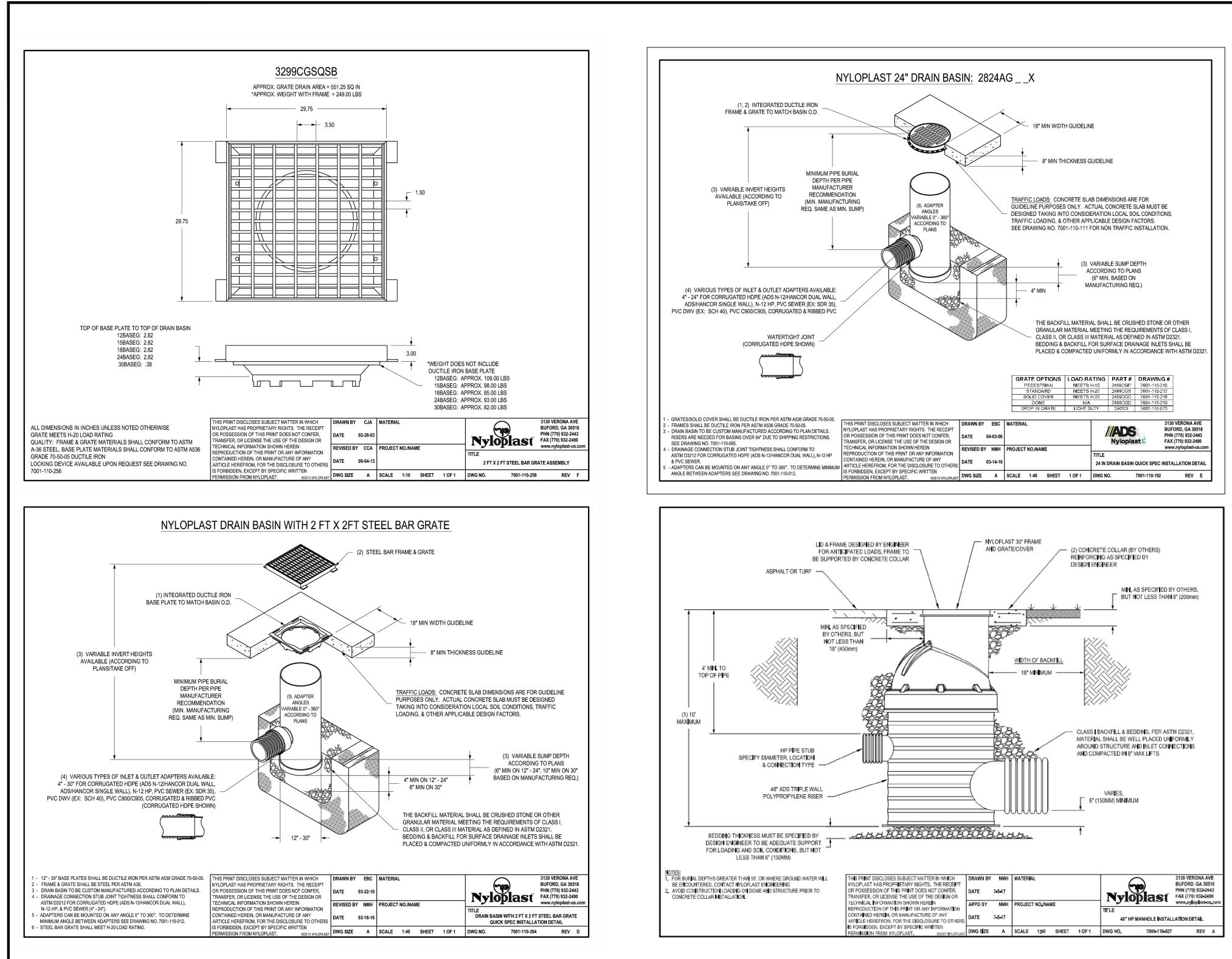
7.3 EXPANSION JOINT MATERIAL SHALL BE PLACED FULL DEPTH OF THE CURB AND GUTTER, SIDEWALK, CONCRETE PAVEMENT, AS APPLICABLE. THE TOP PORTION OF THE JOINT SHALL BE SEALED WITH SILICONE SEALANT. 17.4 SEE **S-616.2** FOR REBAR PLACEMENT AROUND CONNECTOR PIPE.

STANDARD DETAIL **S-716** APPLIES TO ALL OF THE GRATE & FRAME GEOMETRIC DIMENSIONS FOR THE TRIPLE NUMBER 16 INLET EXCEPT FOR THE FRAME LENGTH. FRAME LENGTH SHOULD BE MANUFACTURED FOR THE DIMENSIONS CALLED OUT ON THIS SHEET.

TABLE 10. NO. 16 TOTAL INLET LENGTH						
INLET CONFIGURATION	Le or L _M inlet length	= $\mathbf{E}_{\mathbf{S}}$ or $\mathbf{E}_{\mathbf{M}}$ total bottom slab length				
TRIPLE NO. 16	10'-11"	12'-9"				
NO. 16 3-3-2 (EXAMPLE CONFIGURATION)	10'-11", 10'-11", 7'-1"	32'-1"				
NO. 16 (CONFIGURATION TEMPLATE)	<u></u>	=3"+8"+Ls+8"+Ls+8"+Ls+8"+3"				

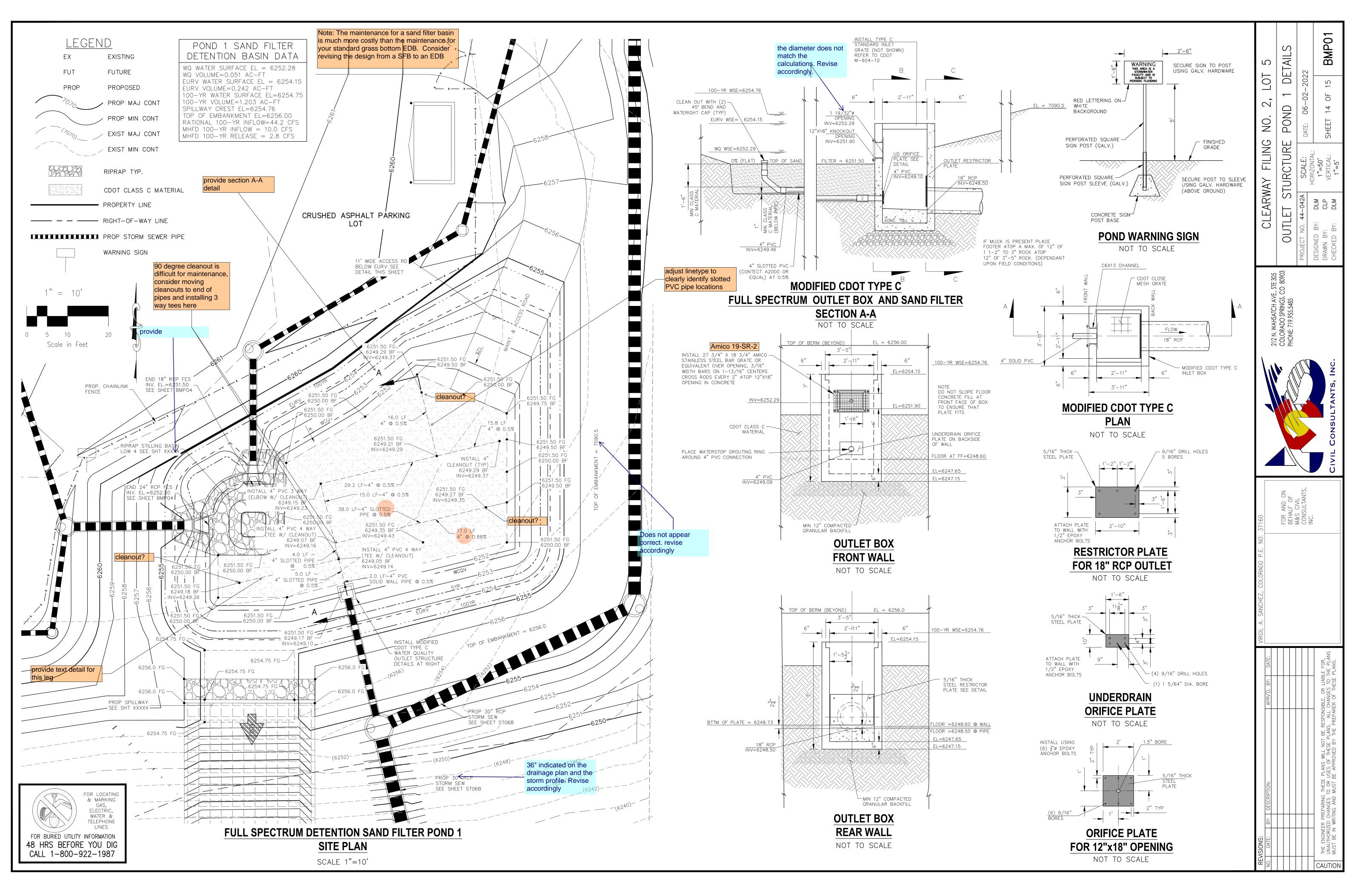
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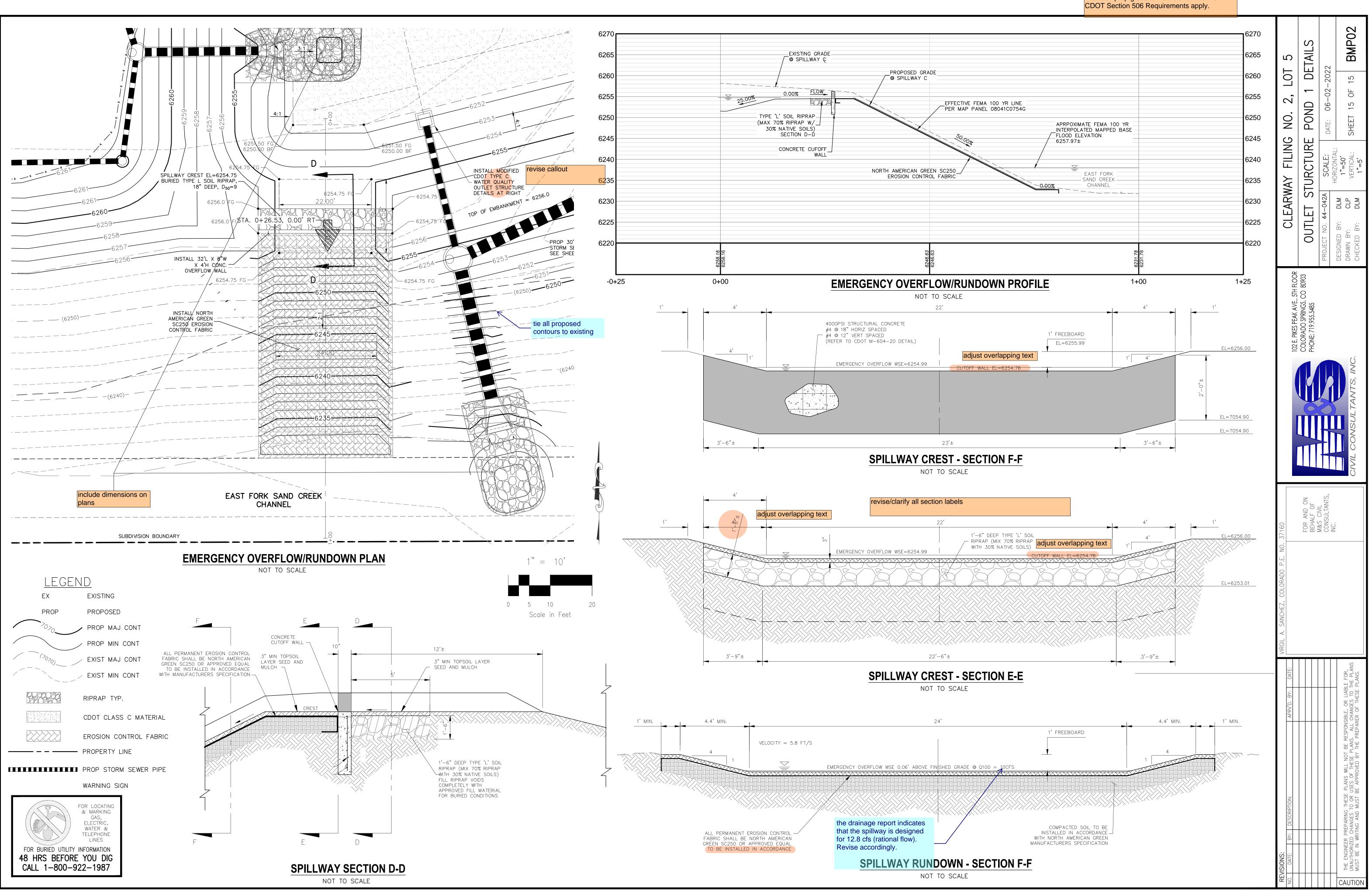






	CLEARWAY FILING NO. 2, LOT 5	80903 STORM SEWER DETAILS	44-042A	DESIGNED BY: DLM N/A DRAWN BY: CLP VERTICAL: SHEET 13 OF 15 STO8 CHECKED BY: DLM N/A
	212 N. WAHSATCH AVE	COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485		CIVIL CONSULTANTS, INC.
	VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160	FOR AND ON BEHALF OF		
FOR BURIED UTILITY INFORMATION FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1–800–922–1987	REVISIONS: DATE: BY: DESCRIPTION: NO. DATE: BY: DATE:			THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.





Provide riprap gradation table and note that CDOT Section 506 Requirements apply.

