

EROSION CONTROL LEGEND

- SF SILT FENCE (INITIAL/INTERIM)
RS CURB ROCK SOCKS (INITIAL/INTERIM)
CF CONSTRUCTION FENCE (INITIAL, INTERIM)
SCL SEDIMENT CONTROL LOG (INITIAL, INTERIM)
PS PERMANENT SEEDING (INTERIM, FINAL)
TSB TEMPORARY SEDIMENT BASIN (INITIAL)
SSA STABILIZED STAGING AREA (INITIAL)
CWA CONCRETE WASHOUT AREA (INTERIM)
SP STOCKPILE AREA (INTERIM)
VTC VEHICLE TRACK CONTROL (INITIAL, INTERIM)
IP-# ON-GRADE (IP-1) & SUMP (IP-2) INLET PROTECTION (INITIAL/INTERIM)

- PROPERTY LINE
EASEMENT LINE
SETBACK LINE
LIMITS OF DISTURBANCE/CONSTRUCTION
PROPERTY CORNER/MONUMENT, BENCHMARK OR TEMPORARY BENCHMARK
SHEET FLOW/DRAINAGE DIRECTION
PROPOSED MINOR CONTOUR
PROPOSED MAJOR CONTOUR
EXISTING MINOR CONTOUR
EXISTING MAJOR CONTOUR
SPOT ELEVATION

SITE HATCHING

- AREAS OF CUT
AREAS OF FILL
PROP. STRUCTURE/BUILDING
PROP. SIDEWALK

FEMA FLOODPLAIN STATEMENT:

ACCORDING TO FEMA FLOODPLAIN MAP 0804100752G DATED 12/07/2018, THE PROPERTY FALLS WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD.

BATCH PLANT STATEMENT

NO BATCH PLANTS ARE TO BE USED ON SITE

EXISTING VEGETATION COVERS APPROXIMATELY 98.5% OF THE SITE AND CONSISTS OF NATIVE GRASS WITH EXISTING IMPERVIOUSNESS OF APPROXIMATELY 1.5%

*CONTRACTOR TO HAUL DIRT/SOIL OFF-SITE DURING CONSTRUCTION. NO OVER NIGHT STOCKPILING OF MATERIALS TO BE DONE ON-SITE.

BMP COST ESTIMATE:

Table with columns: BID ITEM, UNIT, EST. \$/UNIT, TOTAL COST. Includes items like Permanent Seeding, Permanent Pond, Safety Fence, etc.

NET: \$36,191.50
MAINTENANCE (35%): \$6,207.95
TOTAL: \$42,399.45

- NOTES:
1. ALL UNIT PRICES REFLECT INSTALLED PRICES UNLESS OTHERWISE NOTED.
2. ALL UNIT PRICES PROVIDED BY EL PASO COUNTY 2021 FINANCIAL ASSURANCE ESTIMATE FORM.

ENGINEER'S STATEMENT: THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF...

ENGINEER OF RECORD SIGNATURE DATE

EL PASO COUNTY STANDARD NOTES:

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS...
2. 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...
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION...
4. ONCE THE ESQCP IS APPROVED AND A NOTICE TO PROCEED HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC...
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER...
6. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED...
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS...
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES...
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS...
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION...
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL...
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE...
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP...
14. DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE...
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1...
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS...
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY...
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED...
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, ROCK, TRASH, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS...
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED...
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR...
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION...
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES...
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE COLORADO WATER QUALITY CONTROL ACT...
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION POINTS...
26. A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS...
27. THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY RMG-ROCKY MOUNTAIN GROUP, DATED 2/23/2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS...
28. AT LEAST TEN (1) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT...
29. COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WQCD-PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

EL PASO COUNTY:

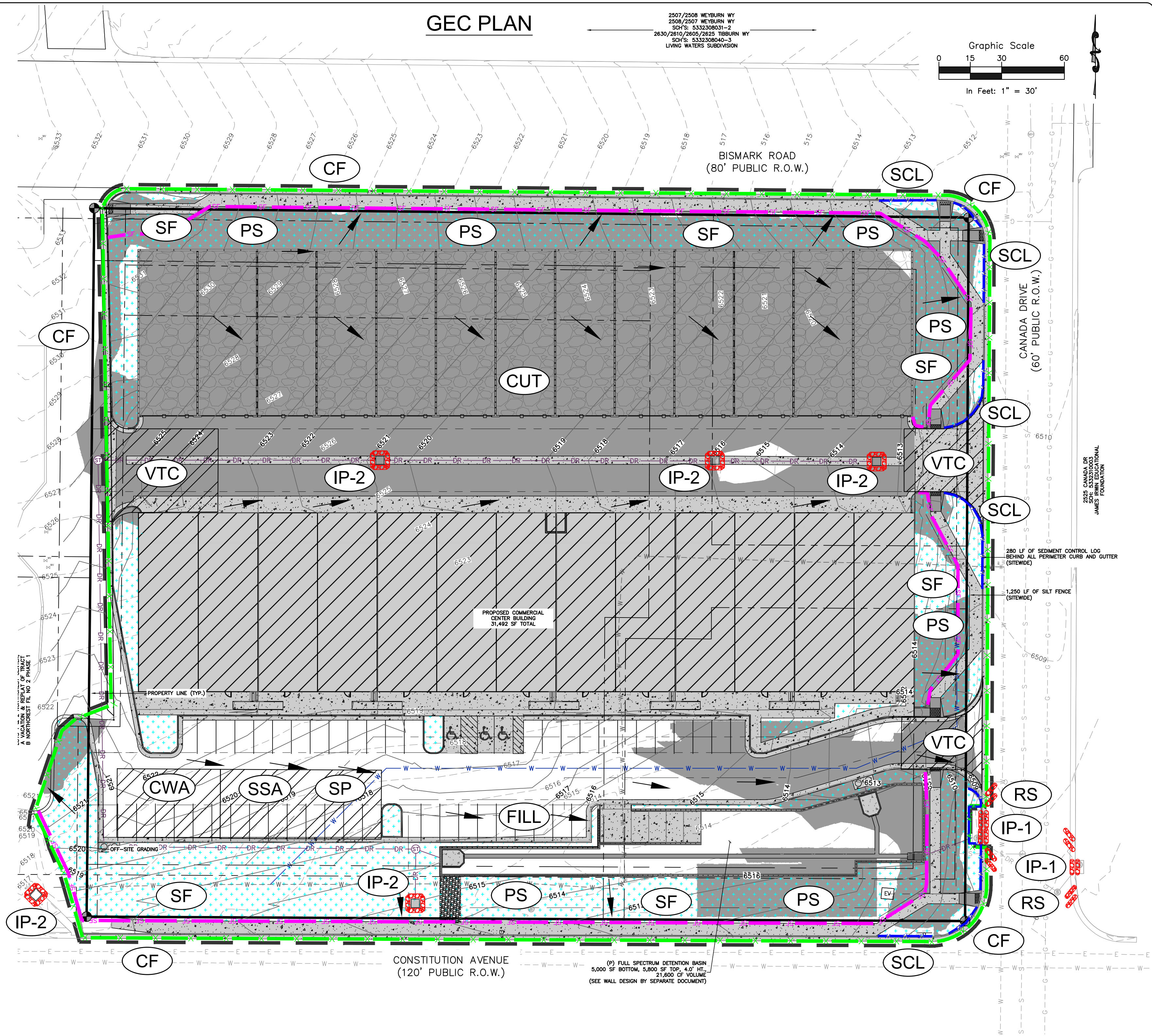
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE...

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

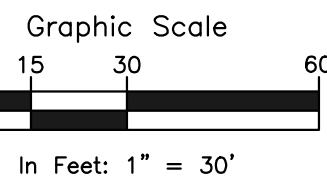
IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER...

JENNIFER IRVINE, PE COUNTY ENGINEER/ECM ADMINISTRATOR DATE

GEC PLAN



2507/2508 WEYBURN WY
2509/2507 WEYBURN WY
SCH'S. 5332308031-2
2630/2610/2605/2625 1088URN WY
SCH'S. 5332308040-2
LIVING WATERS SUBDIVISION



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

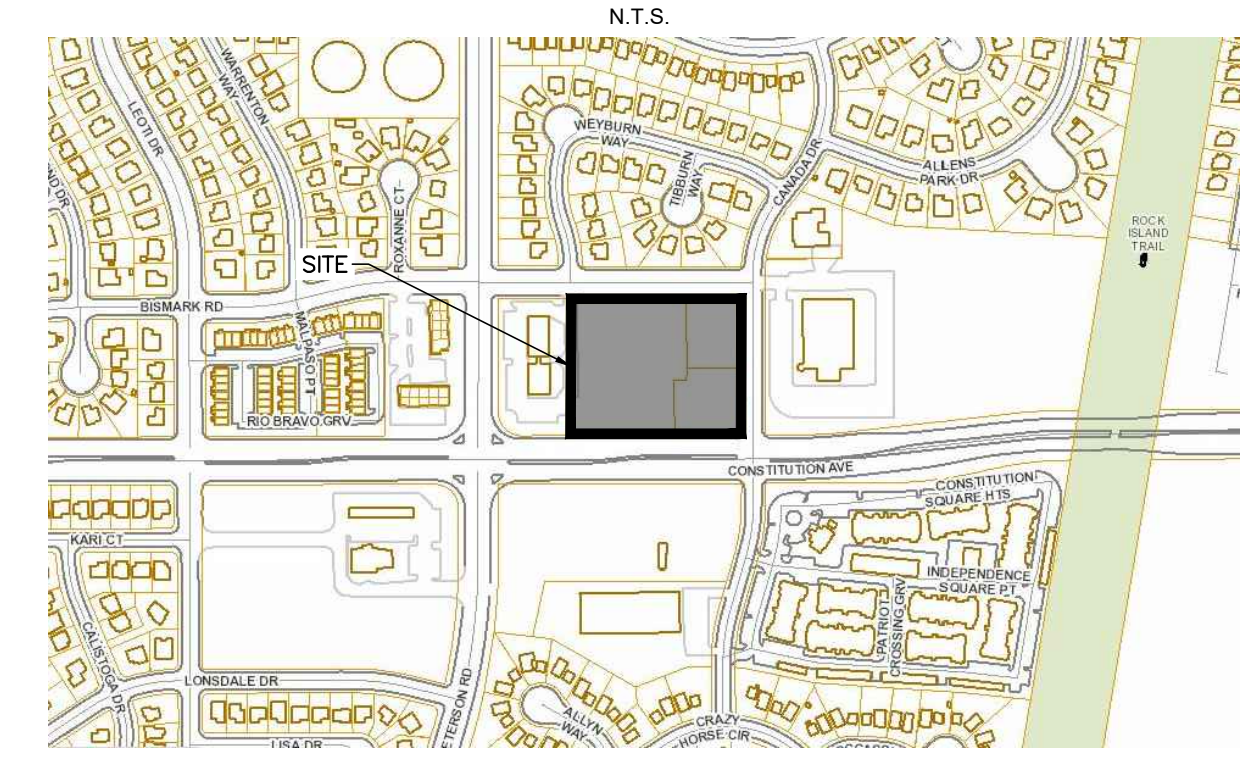
CANADA DRIVE
(60' PUBLIC R.O.W.)

CONSTITUTION AVENUE
(120' PUBLIC R.O.W.)

RESTORATION NOTES:

- 1. FURTHER DETAIL AND NOTES PROVIDED IN THE DRAINAGE CRITERIA MANUAL VOLUME III, CHAPTER 14.
2. SEE SEED MIX TABLES 14-9 THROUGH 14-14 FOR GIVEN GEOGRAPHIC AND GEOLOGIC CONDITIONS...
3. UNLINED DRAINAGE FACILITIES AND AREAS DISTURBED DURING CONSTRUCTION SHOULD BE ACTIVELY REVEGETATED...
4. LATE WINTER TO EARLY SPRING (FEBRUARY TO EARLY APRIL) IS TYPICALLY THE NEXT MOST FAVORABLE TIME PERIOD FOR SEEDING...

VICINITY MAP



Rocky Mountain Group logo and contact info. Project name: NORTHCREST PEMB DEVELOPMENT. Address: 2510 & 2522 CANADA DRIVE, COLORADO SPRINGS, COLORADO. Design Development phase. Sheet C-01.

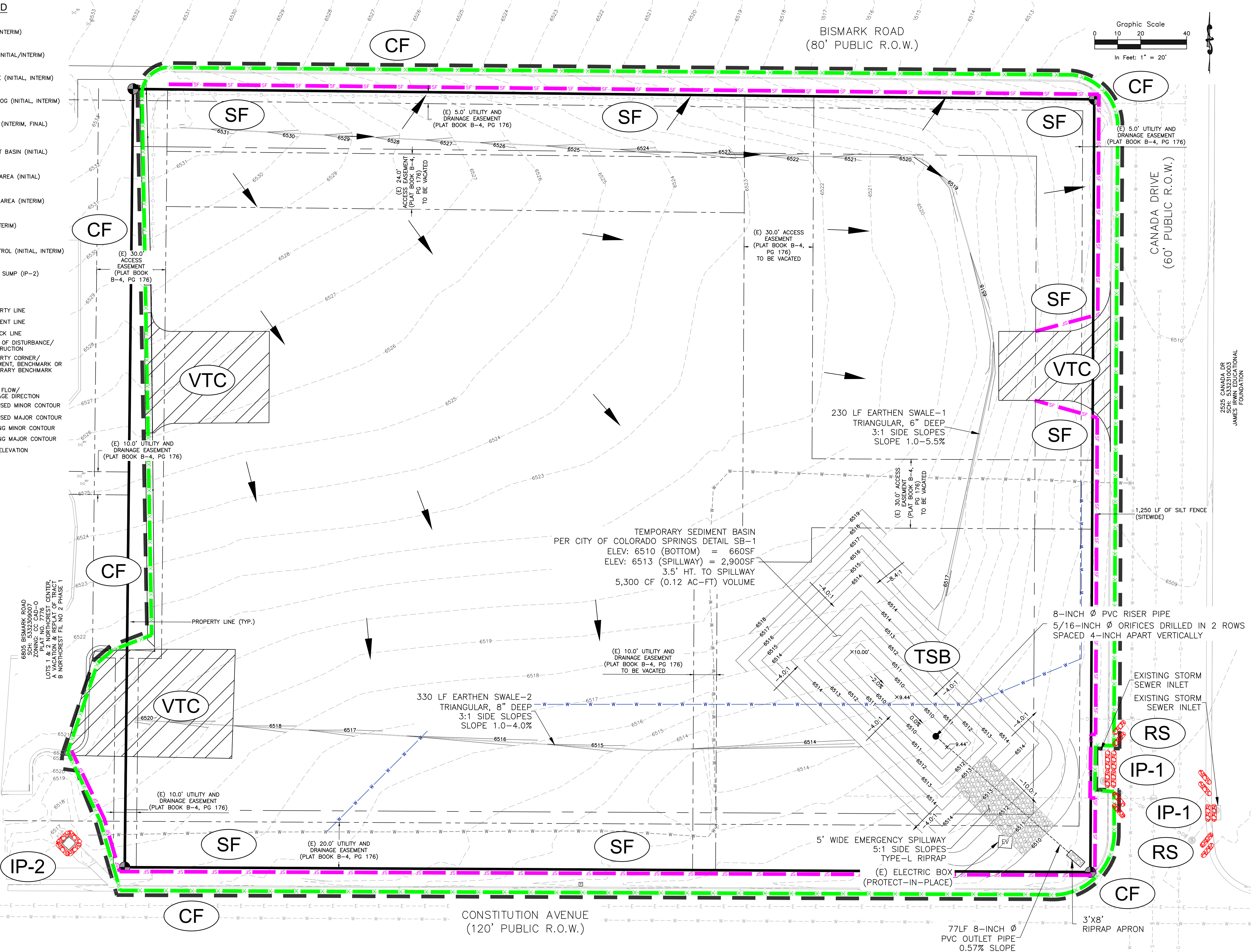
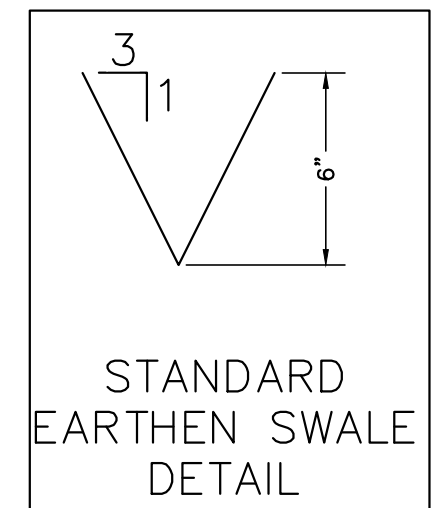
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 - EXISTING MAJOR CONTOUR
 - SPOT ELEVATION

SITE HATCHING

- AREAS OF CUT (**CUT**)
- AREAS OF FILL (**FILL**)
- PROP. STRUCTURE/BUILDING
- PROP. SIDEWALK



ROCKY MOUNTAIN GROUP
ARCHITECTS
RMG
ENGINEERS

Geotechnical
Materials Testing
Civil/Planning
Architectural
Structural
Forensics

SOUTHERN COLORADO
2910 AUSTIN BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918
719.535.6500 WWW.ROCKYMOUNTAINENGINEERS.COM
Sedimentation, Erosion Control, Drainage, Hydrology, Geotechnical

NOT FOR CONSTRUCTION
FOR CIVIL ONLY

2525 CANADA DR.
JAMES IRWIN EDUCATIONAL
FOUNDATION

NORTHWEST PEMB DEVELOPMENT
2510 & 2522 CANADA DRIVE
LEISURE CONSTRUCTION, COLORADO

PROJECT STATUS
EROSION CONTROL PLAN -
INITIAL
DESIGN DEVELOPMENT

ENG:	DWG	
DRAWN:	TPT	
CHECKED:	DGW	
DATE:	08/12/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-02	
	of 12	

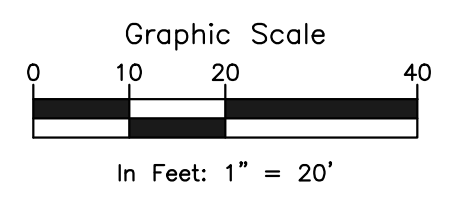
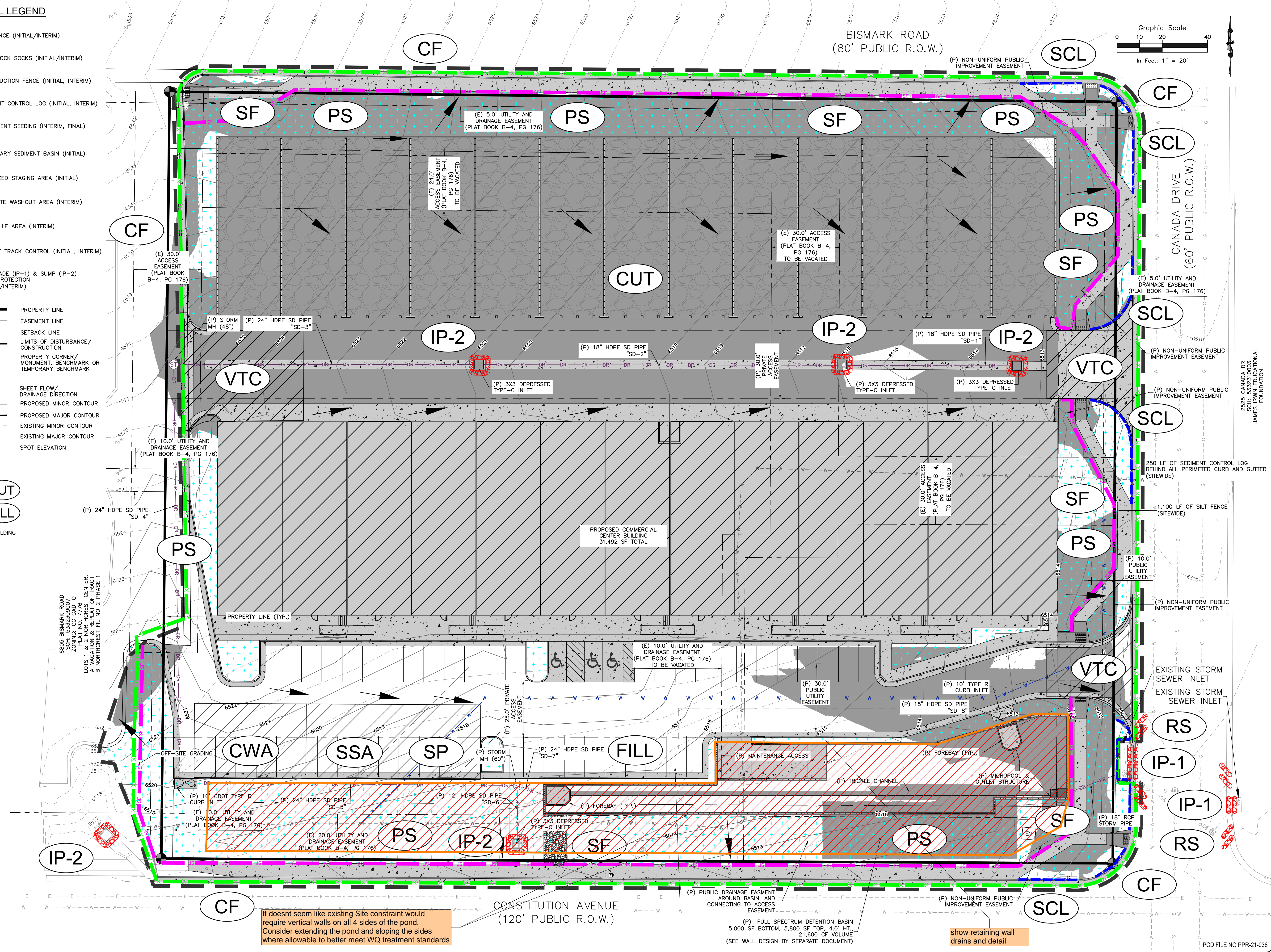
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- CF** — CONSTRUCTION FENCE (INITIAL, INTERIM)
- SCL** — SEDIMENT CONTROL LOG (INITIAL, INTERIM)
- PS** — PERMANENT SEEDING (INTERIM, FINAL)
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- SSA** — STABILIZED STAGING AREA (INITIAL)
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- ▨ AREAS OF CUT (**CUT**)
- AREAS OF FILL (**FILL**)
- ▨ PROP. STRUCTURE/BUILDING
- ▨ PROP. SIDEWALK



It doesn't seem like existing Site constraint would require vertical walls on all 4 sides of the pond. Consider extending the pond and sloping the sides where allowable to better meet WQ treatment standards

(P) FULL SPECTRUM DETENTION BASIN
5,000 SF BOTTOM, 5,800 SF TOP, 4.0' HT.,
21,600 CF VOLUME
(SEE WALL DESIGN BY SEPARATE DOCUMENT)

show retaining wall
drains and detail

ROCKY MOUNTAIN GROUP
ARCHITECTS
ENGINEERS

2910 ALBERTA BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918
WWW.ROCKYMOUNTAINENGINEERS.COM
SOUTHERN CALIFORNIA REGISTERED PROFESSIONAL ENGINEERS

2525 CANADA DR
SCH: 5332310003
JAMES IRWIN EDUCATIONAL FOUNDATION

NORTHEAST PEMB DEVELOPMENT
2510 & 2522 CANADA DRIVE
COLORADO SPRINGS, COLORADO
LEISURE CONSTRUCTION

EROSION CONTROL PLAN - INTERIM
DESIGN DEVELOPMENT

ENG:	DOV	
DRAWN:	TPT	
CHECKED:	DOV	
DATE:	08/12/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-03	
	of 12	

PCD FILE NO PPR-21-036

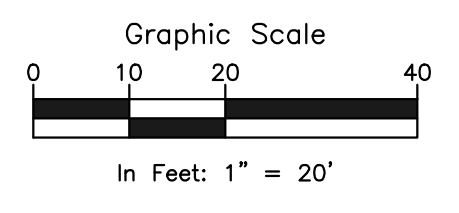
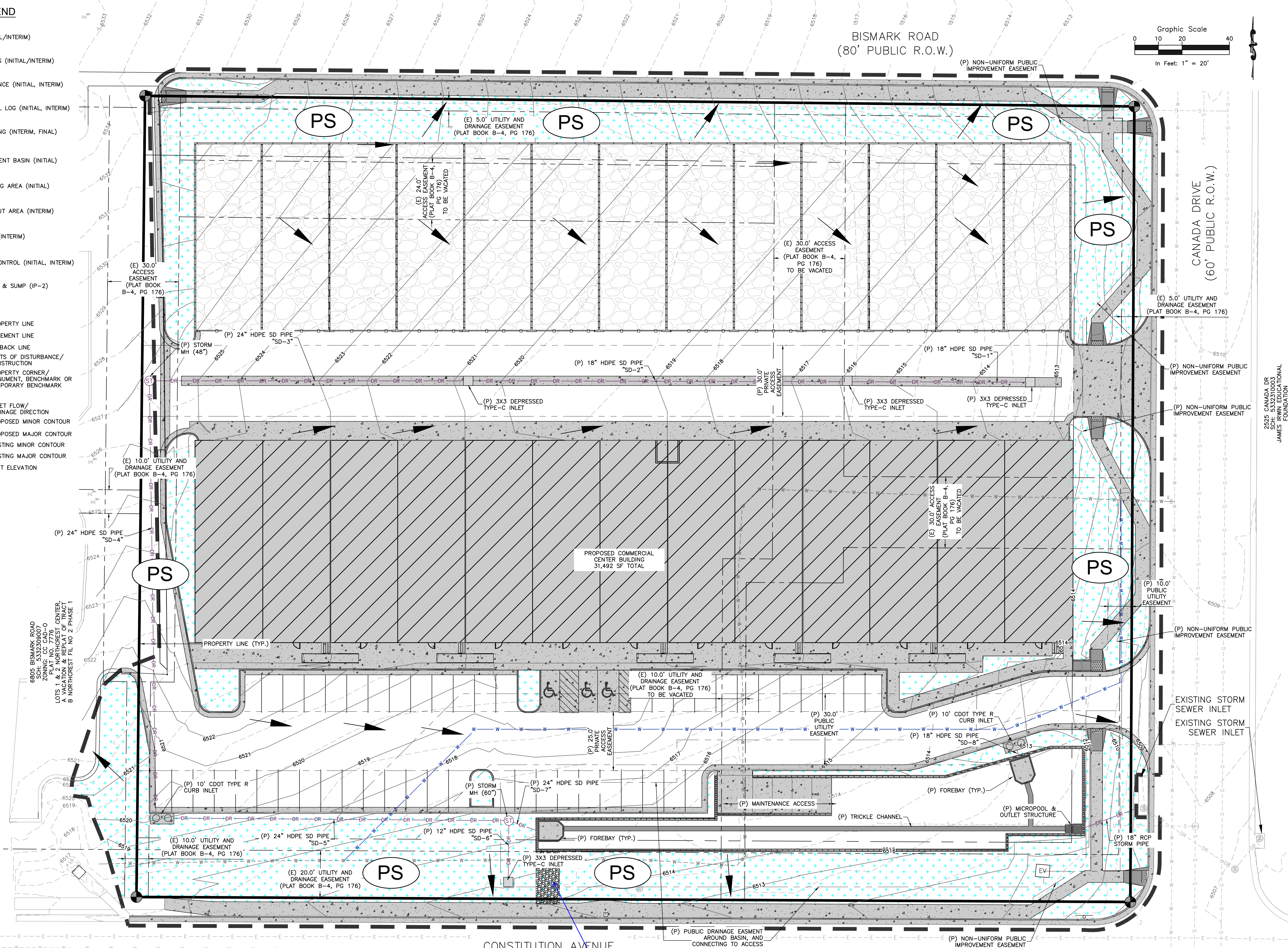
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SITE HATCHING

- AREAS OF CUT **CUT**
- AREAS OF FILL **FILL**
- PROP. STRUCTURE/BUILDING
- PROP. SIDEWALK



6805 BISMARCK ROAD
 SCH. 5332300077
 ZONING: CC CAD-O
 PLAT NO. 7776
 1/2 ACRES CENTER
 VACATING 2 MOBILE HOME TRACTS
 B NORTHWEST 1/4 SEC. 10
 T. 25N. R. 68E. S. 10E. CO. 63

CONSTITUTION AVENUE
 (120' PUBLIC R.O.W.)

Please label this hatching. If this is rip rap please show the type and dimensions per DCM Vol. 1 Chapter 10.10 Table 10-7.

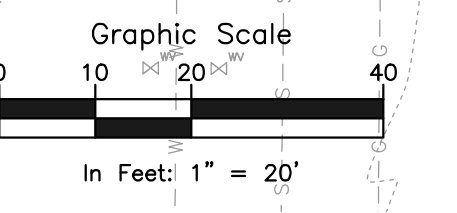
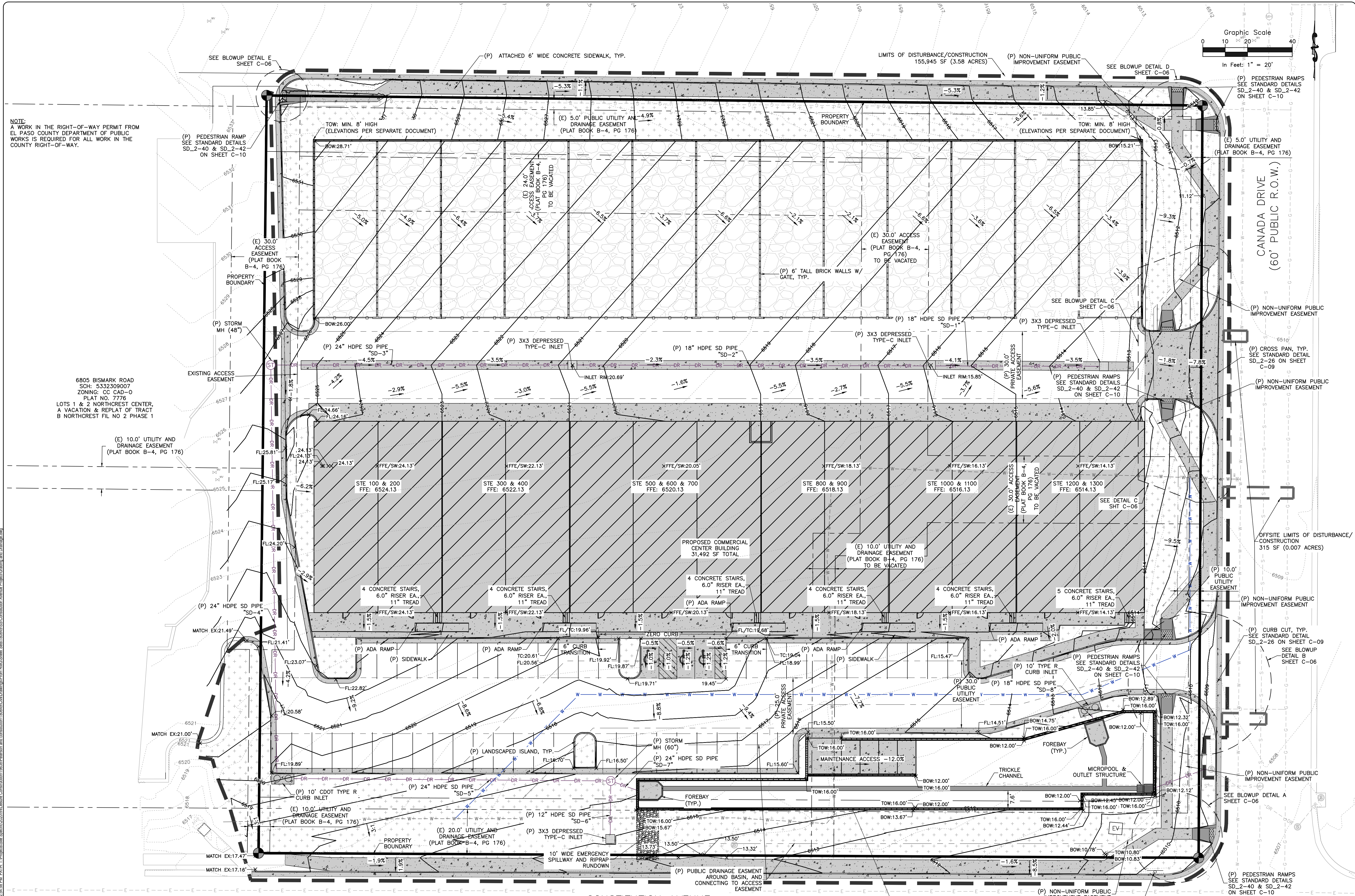
ROCKY MOUNTAIN GROUP
 ARCHITECTS
RMG
 ENGINEERS
 Geological
 Materials Testing
 Civil/Planning
 Architectural
 Structural
 Forensics
 SOUTHERN COLORADO
 2910 ALPINE BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918
 719.536.6500 WWW.ROCKYMOUNTAINENGINEERS.COM
 Sustainable Architecture, Driveway Design, Agriculture, Equine

NOT FOR CONSTRUCTION
 FOR CIVIL ONLY

NORTHWEST PEMB DEVELOPMENT
 2510 & 2522 CANADA DRIVE
 COLORADO SPRINGS, COLORADO
LEISURE CONSTRUCTION

EROSION CONTROL PLAN - FINAL
 DESIGN DEVELOPMENT

ENG:	DWG	
DRAWN:	TPT	
CHECKED:	DWG	
DATE:	08/12/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-04	
	of 12	



NOTE:
A WORK IN THE RIGHT-OF-WAY PERMIT FROM EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS IS REQUIRED FOR ALL WORK IN THE COUNTY RIGHT-OF-WAY.

6805 BISMARCK ROAD
SCH: 5332309007
ZONING: CC CAD-O
PLAT NO. 7776
LOTS 1 & 2 NORTHEAST CENTER,
A VACATION & REPLAT OF TRACT
B NORTHEAST FIL NO 2 PHASE 1

CONSTITUTION AVENUE
(120' PUBLIC R.O.W.)

provide handrail
around pond with
vertical walls

PCD FILE NO PPR-21-036

ROCKY MOUNTAIN GROUP
ARCHITECTS
Structural
Forensics

SOUTHERN COLORADO
2910 ALSTON BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918
970.435.5500 WWW.RMGENG.COM
Structural, Forensics, Drilling, Surveying, Inspection, Estimating

NORTHEAST PEMB DEVELOPMENT
2510 & 2522 CANADA DRIVE
COLORADO SPRINGS, COLORADO
LEISURE CONSTRUCTION

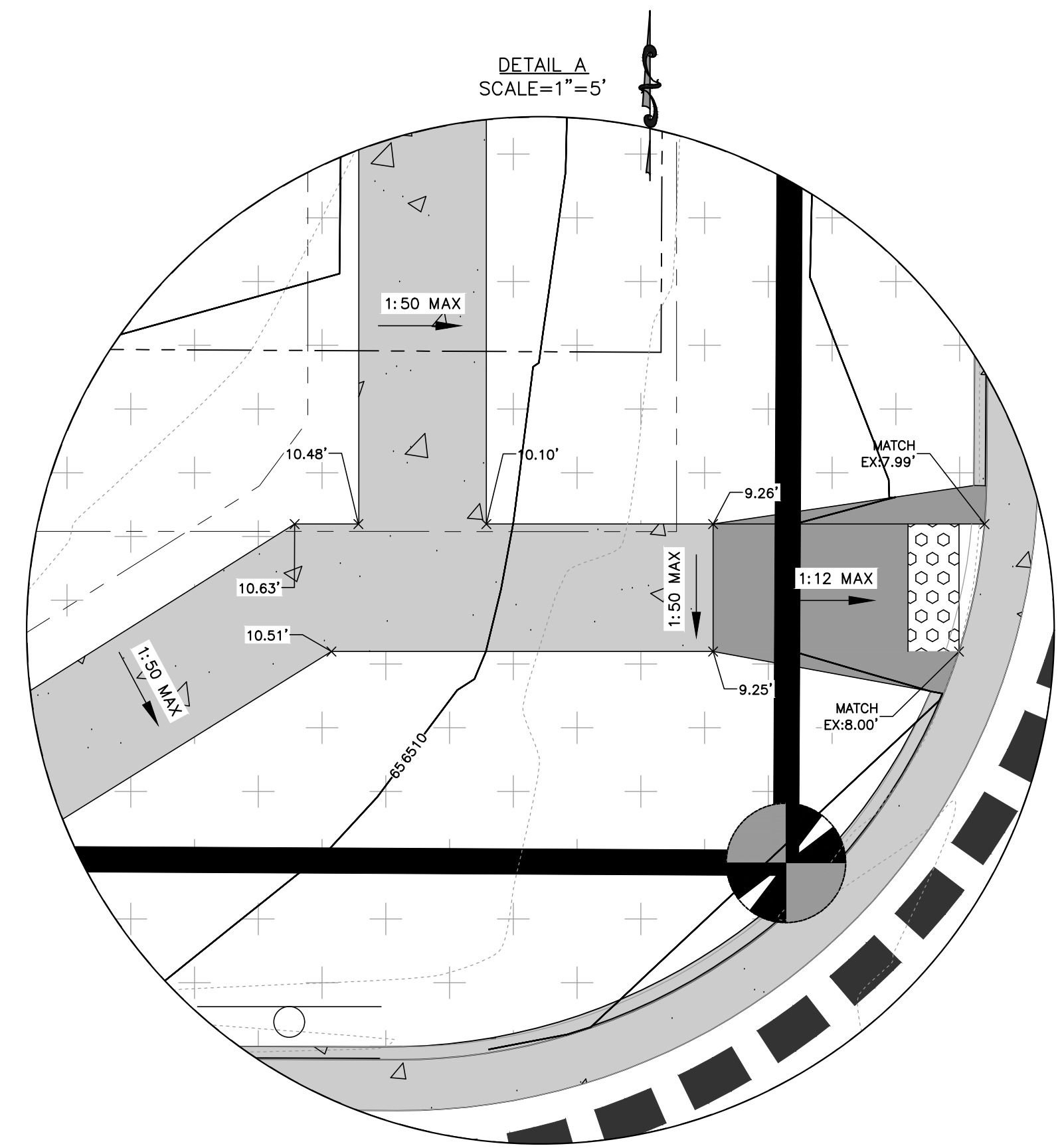
SHEET NAME: PRELIMINARY GRADING & DRAINAGE
PROJECT STATUS: DESIGN DEVELOPMENT

ENG: DOW
DRAWN: TPT
CHECKED: DOW
DATE: 08/12/2022

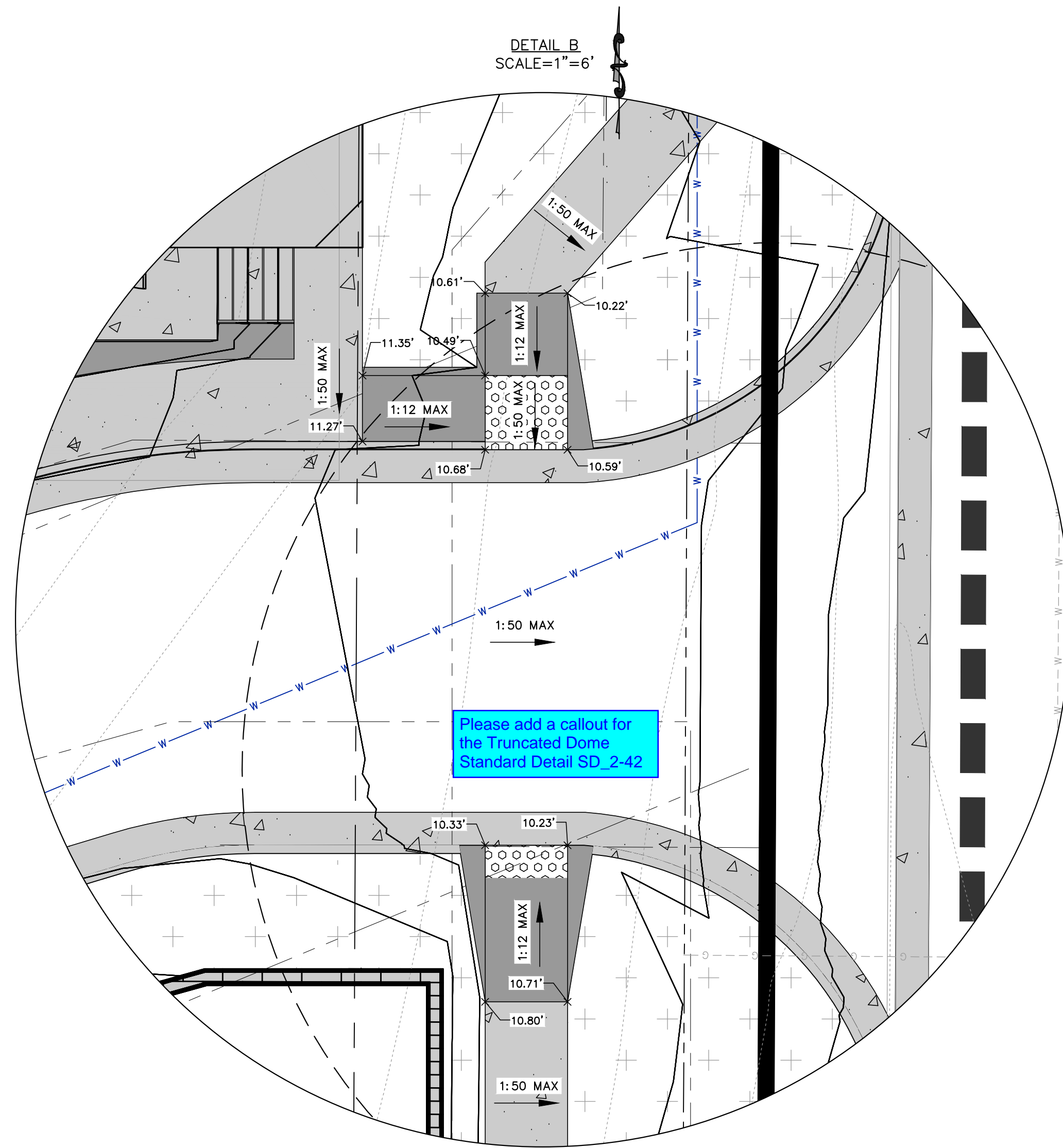
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JOB NO: 180649
SHEET NO: C-05
of 12

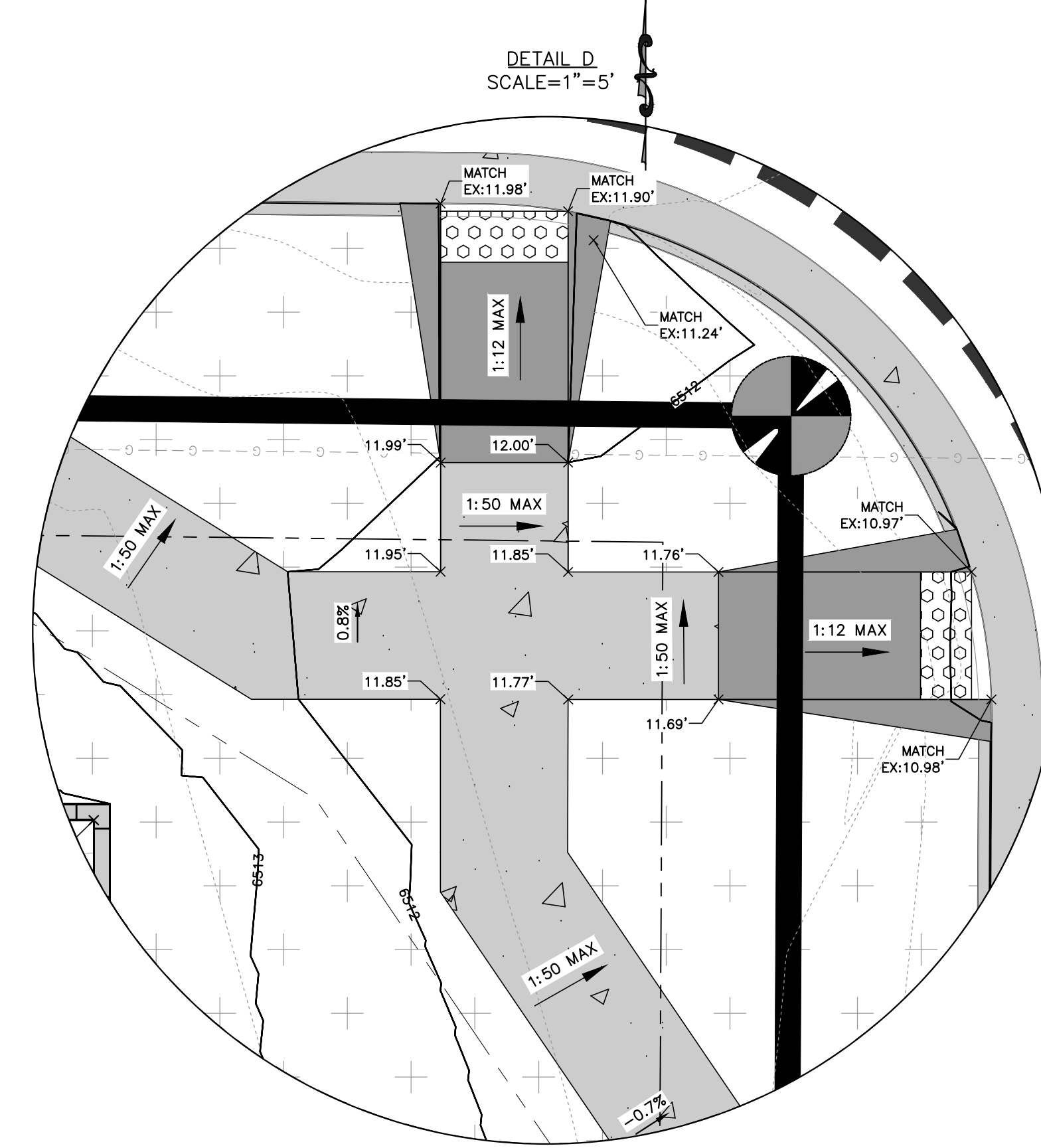
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DETAIL A
SCALE=1"=5'



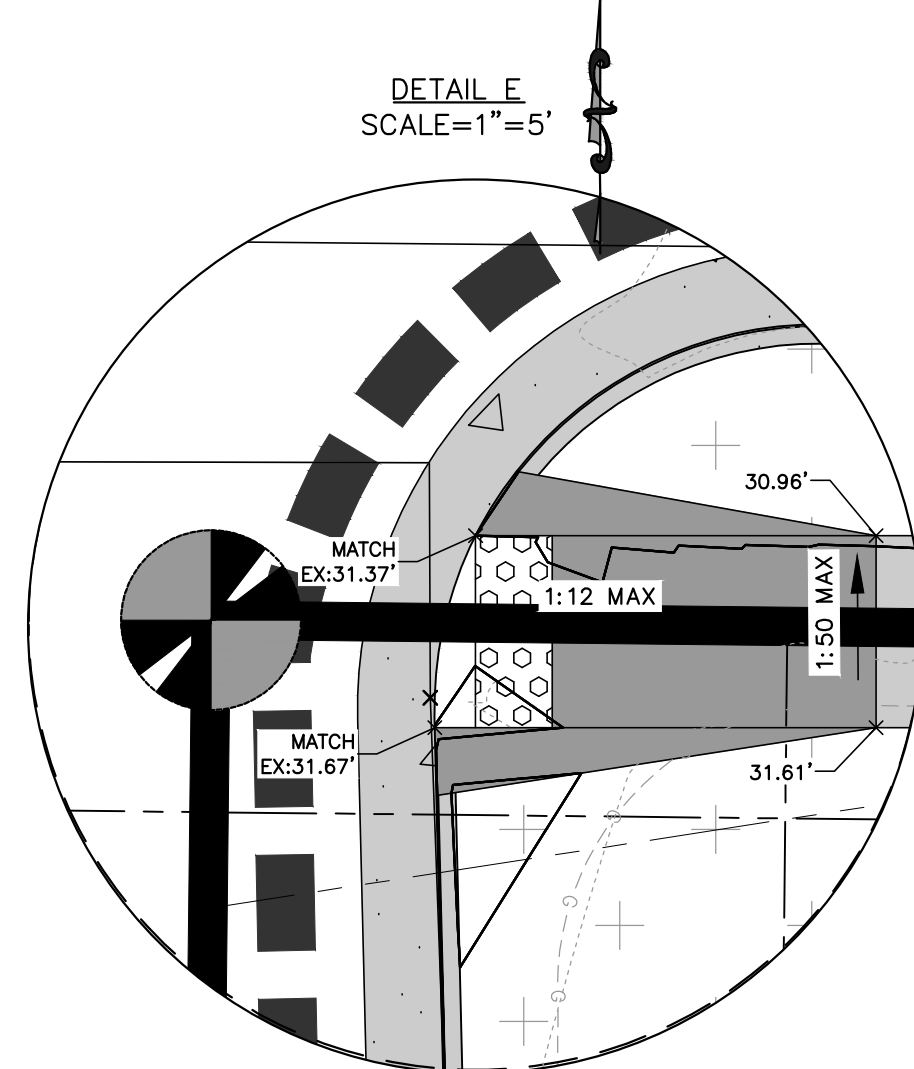
DETAIL B
SCALE=1"=6'



DETAIL D
SCALE=1"=5'



DETAIL C
SCALE=1"=5'



DETAIL E
SCALE=1"=5'

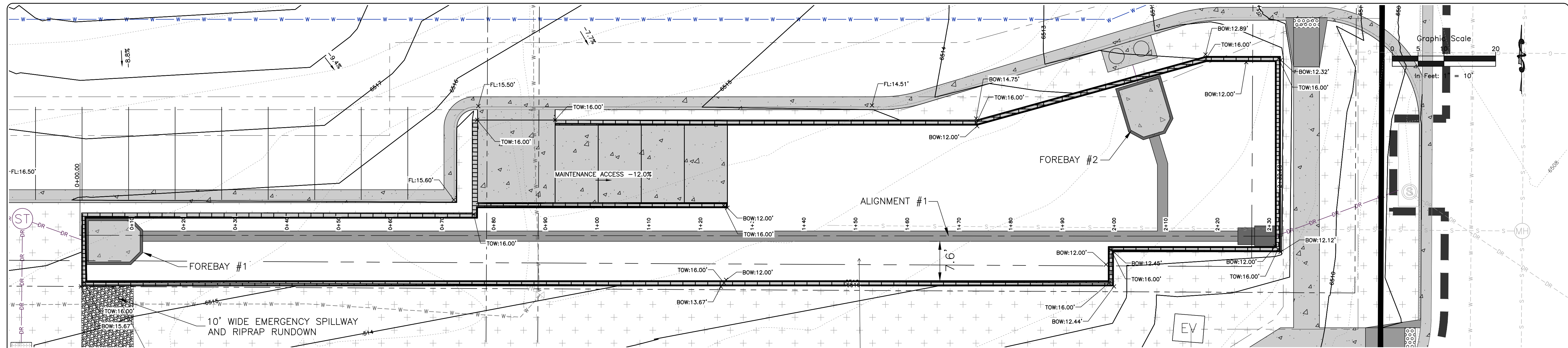
NOT FOR CONSTRUCTION
FOR CIVIL ONLY

NORTHEAST PEMB DEVELOPMENT
2510 & 2522 CANADA DRIVE
COLORADO SPRINGS, COLORADO
LEISURE CONSTRUCTION

SHEET NAME
**PRELIMINARY GRADING &
DRAINAGE**

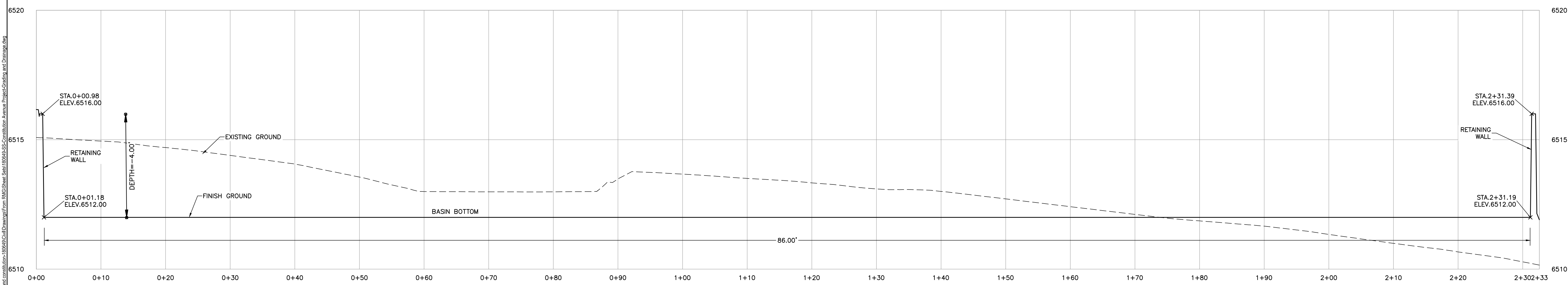
PROJECT STATUS
DESIGN DEVELOPMENT

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SHEET NO.:	C-06	



provide detail, including wall cut, tie in to existing grade, riprap type and size.

show all pond bottom slopes towards trickle channel and outlet structure



PROFILE VIEW - ALIGNMENT #1
 HOR. SCALE : 1"=8'
 VERT. SCALE : 1"=2'

ROCKY MOUNTAIN GROUP
 ARCHITECTS
 Geotechnical
 Structural
 Forensics
 Environmental
 Civil/Planning

RMG ENGINEERS
 SOUTHERN COLORADO
 2910 ALPINE BLUFFS PARKWAY, COLORADO SPRINGS, CO 80918
 719.536.6000 WWW.ROCKYMOUNTAINENGINEERS.COM
 SOUTHERN COLORADO DRIVE, SPRING, NEBRASKA, NEBRASKA

NORTHCREST PEMB DEVELOPMENT
 2510 & 2522 CANADA DRIVE
 COLORADO SPRINGS, COLORADO
 LEISURE CONSTRUCTION

DETENTION BASIN PLAN & PROFILES
 PROJECT STATUS: DESIGN DEVELOPMENT

ENG: SAM
 DRAWN: SAM
 CHECKED: SAM
 DATE: 08/12/2022

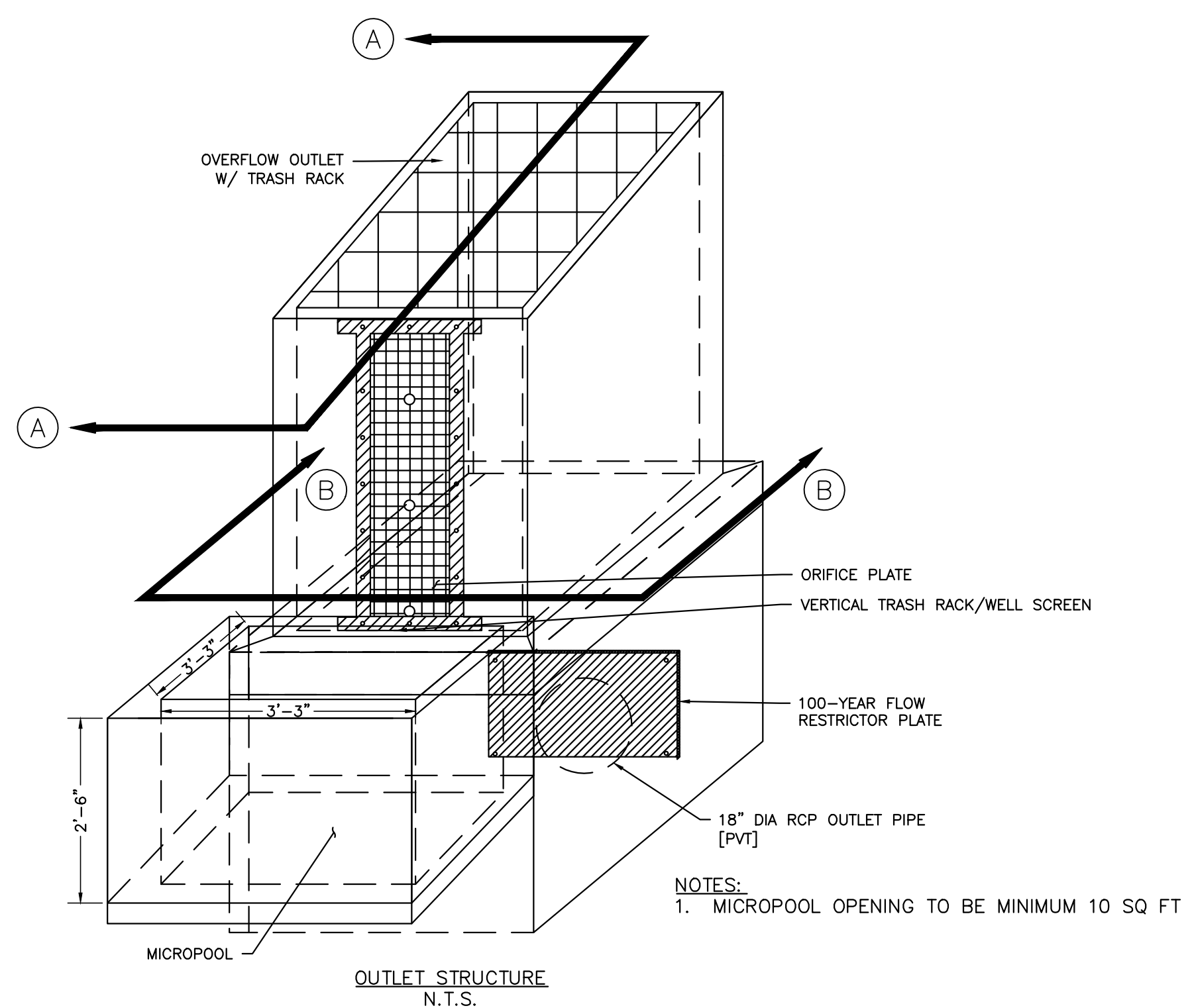
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 SHEET NO. C-07
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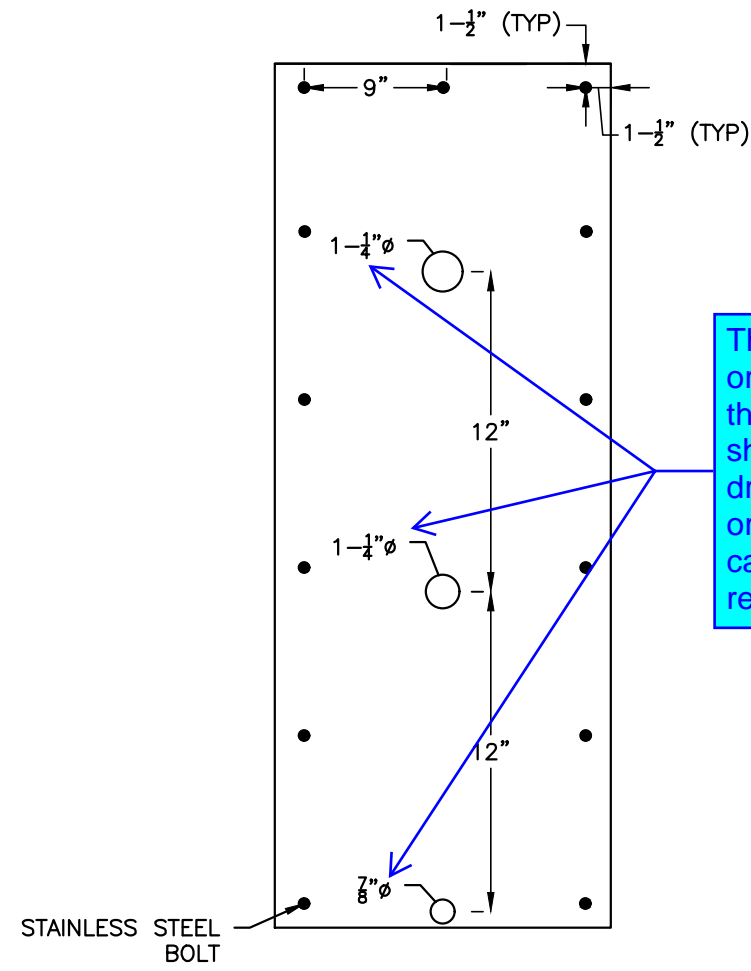
PCD FILE NO PPR-21-036

Please include detail for emergency spillway and verify dimensions match with final drainage report calculations.

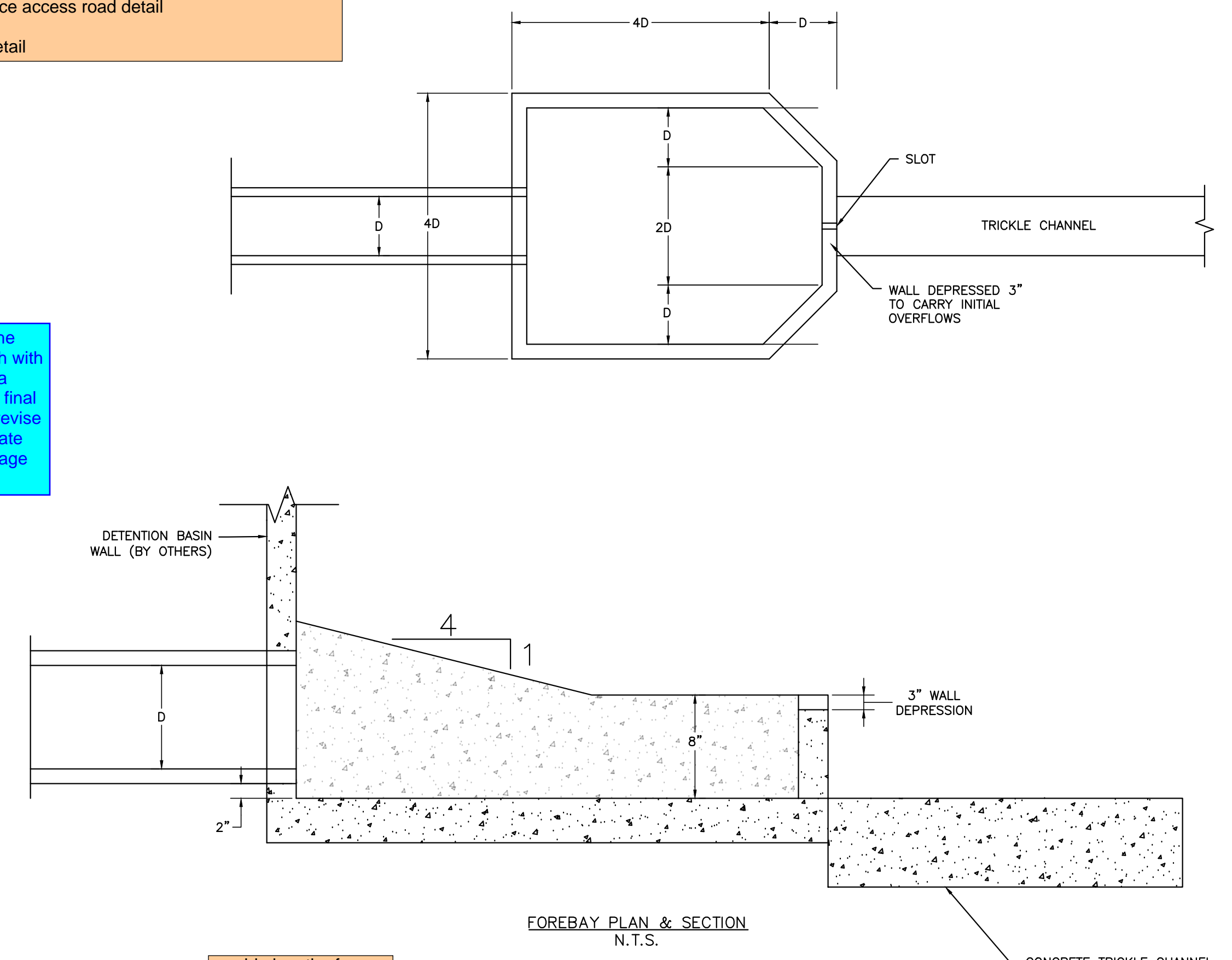
show maintenance access road detail
 show handrail detail



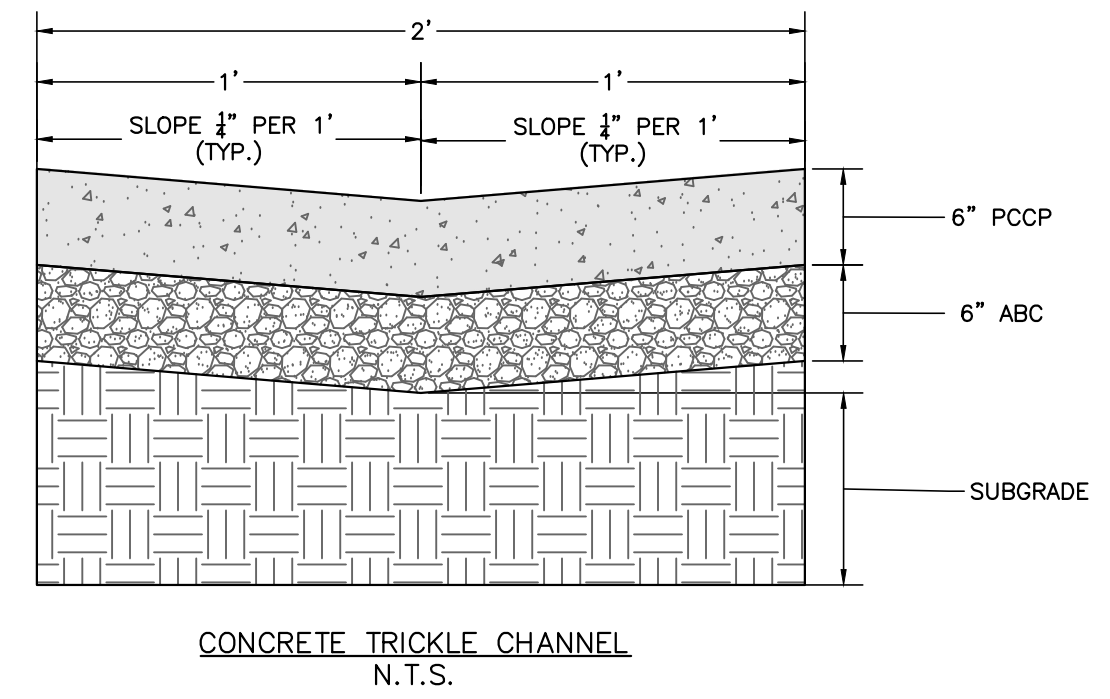
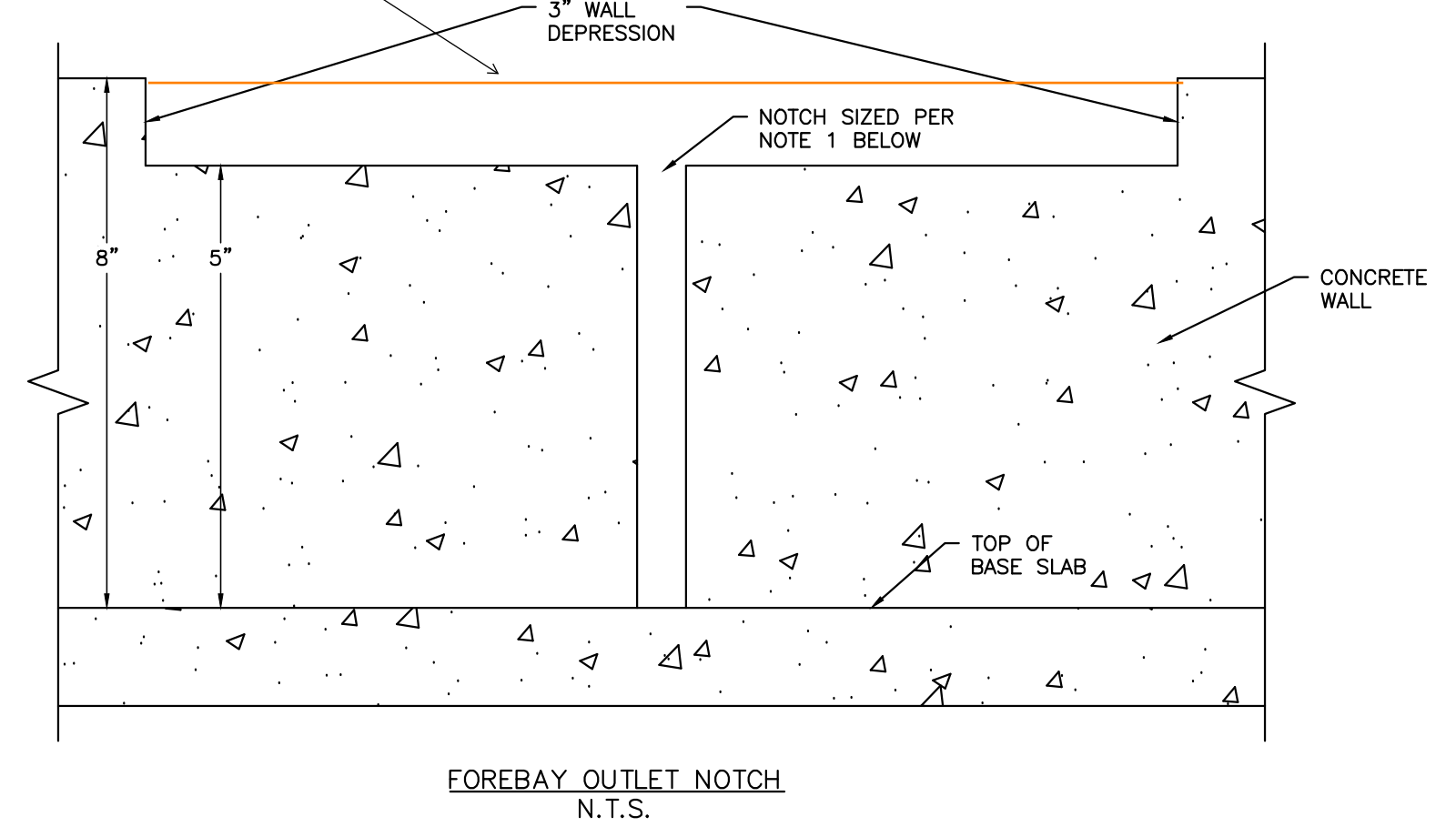
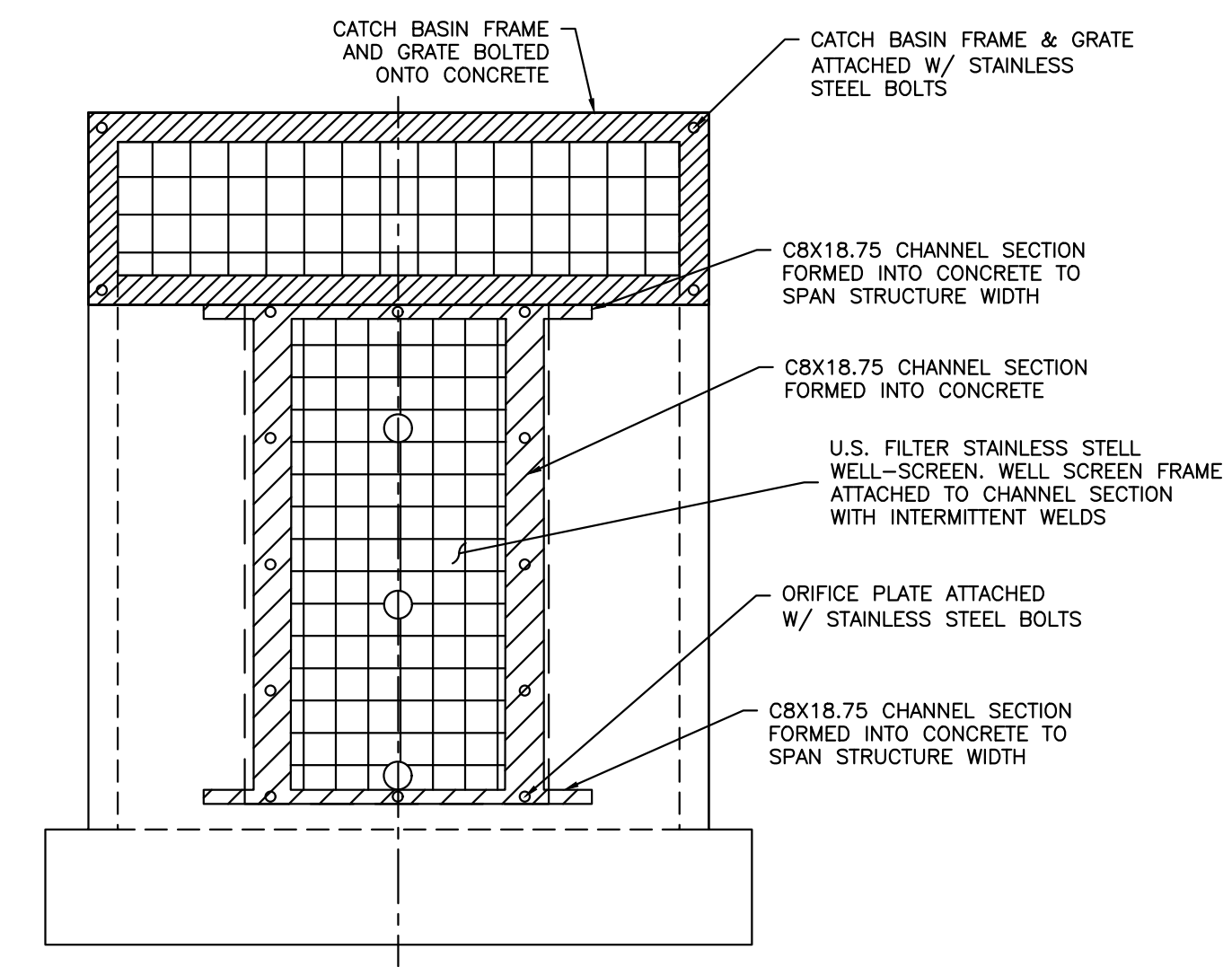
NOTES:
 1. MICROPOL OPENING TO BE MINIMUM 10 SQ FT



The shown diameter of the orifice holes do not match with the calculated orifice area shown on page 35 of the final drainage report. Please revise orifice plate detail or update calculations in final drainage report.



provide length of depression for both forebays



NOTES:
 1. COMBINED FOREBAY VOLUMES SIZED TO CAPTURE 2% OF WQCV. FOREBAY NOTCHES SIZED TO RELEASE 2% OF THE 100YR PEAK RUNOFF.
 2. FOREBAY #1:
 2.1. D=1.5 FT (18 IN PIPE), NOTCH=5" HIGH X 3.00" WIDE
 2.2. VOLUME=MIN. 37 CU FT
 3. FOREBAY #2:
 2.1. D=1.5 FT (18 IN PIPE), NOTCH=5" HIGH X 1.00" WIDE
 2.2. VOLUME=MIN. 14 CU FT

provide calcs in DR

show elevation of WQCV, EURV, and 100-yr stages

2" opening will likely cause clogging, consider moving the restrictor plate to avoid constant maintenance issues.
 Doesn't match DR

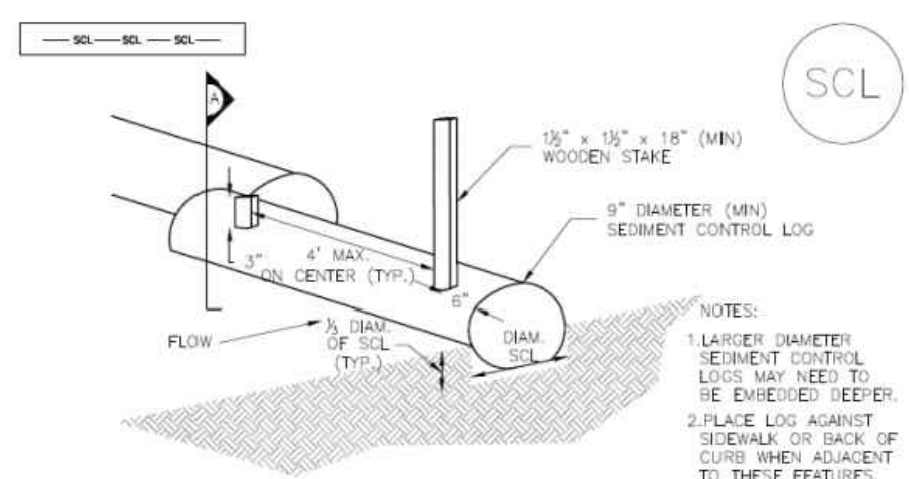
DR calls out 2.5'

include the micropool

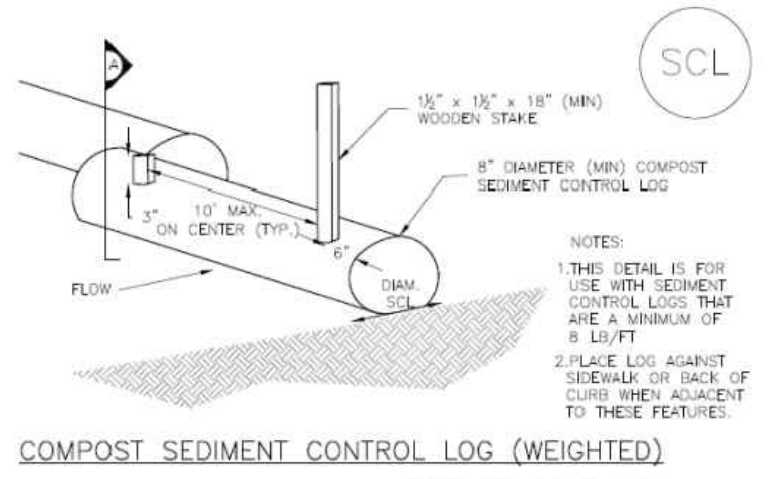
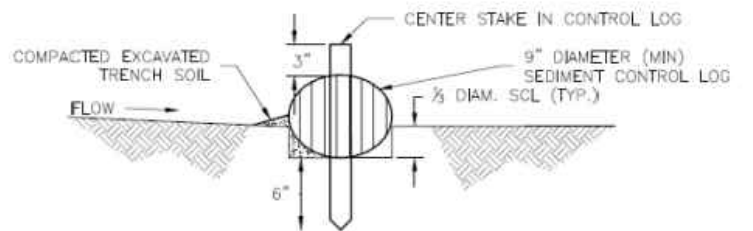
SECTION A-A N.T.S.

STRUCTURAL DIMENSIONS AND REINFORCEMENT BY OTHERS

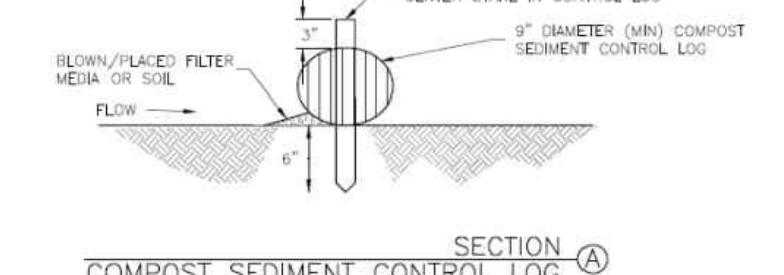
LAST SAVED: 8/9/2022 11:43:36 AM DATE: T:\Projects\Site Specific\2020\H-Unit\Construction\180649\CD\Drawings\Final\RMG\Sheet\Sub\SEC1\180649-SS-Construction\Annual Project\FCDP\FCDP.dwg



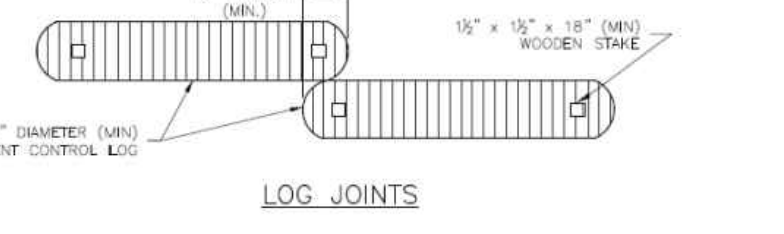
TRENCHED SEDIMENT CONTROL LOG



COMPOST SEDIMENT CONTROL LOG (WEIGHTED)

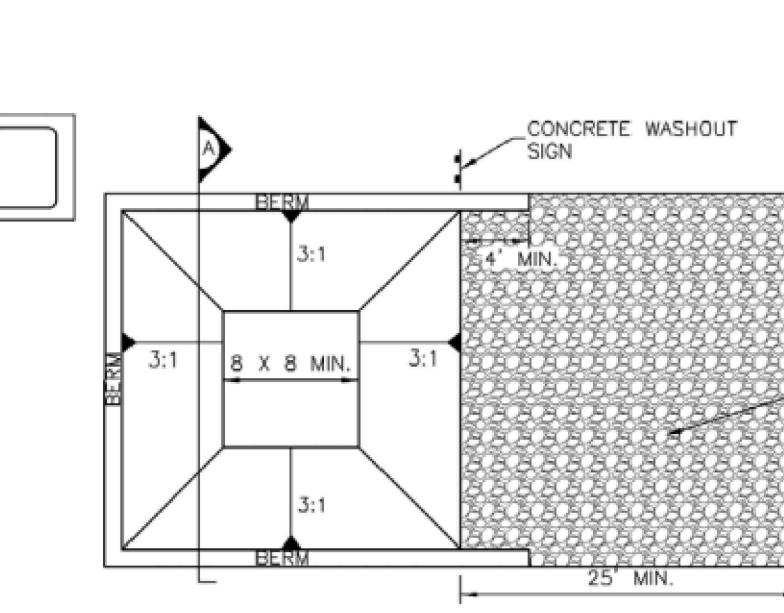


SECTION A
COMPOST SEDIMENT CONTROL LOG

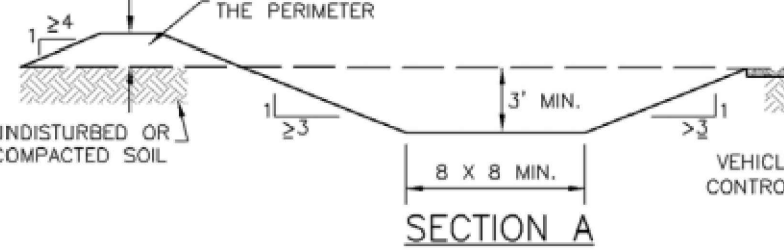


LOG JOINTS

SCL-2. COMPOST SEDIMENT CONTROL LOG (WEIGHTED)



CONCRETE WASHOUT AREA PLAN



SECTION A
CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

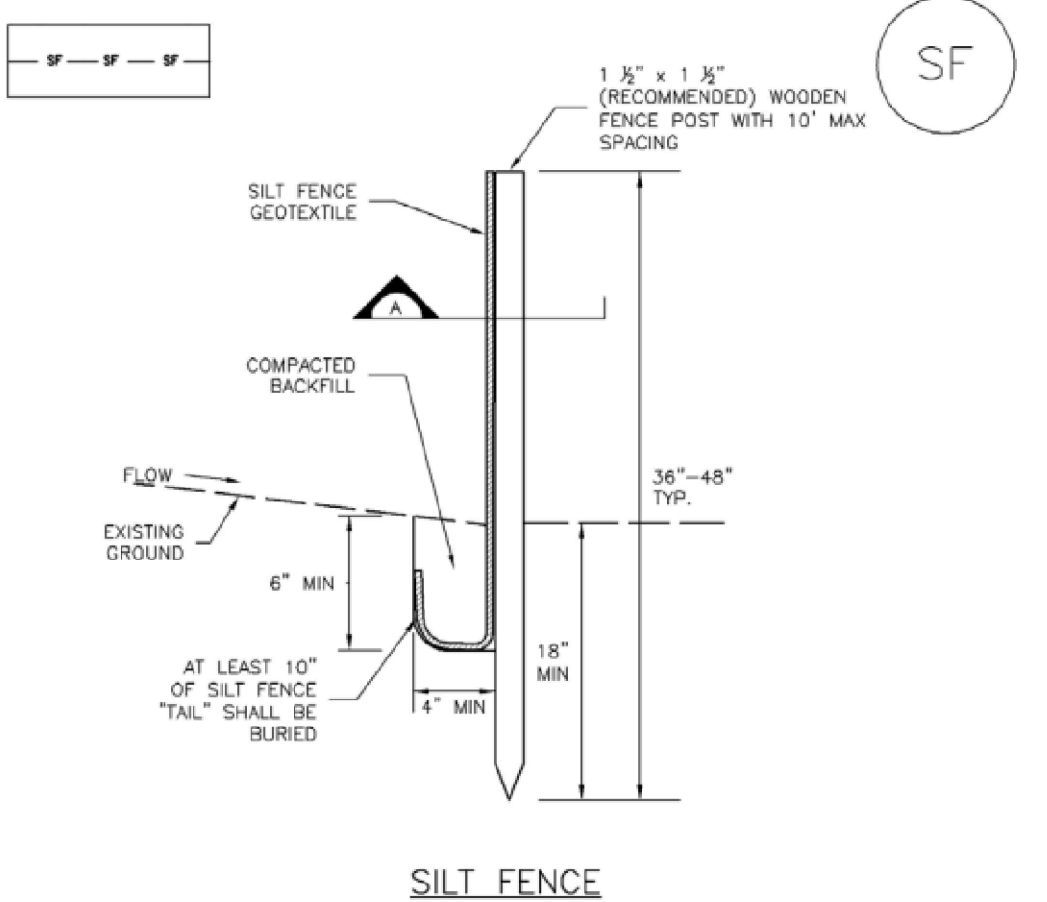
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE LAND-DISTURBING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
- IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/2 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
- THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
- FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

CWA MAINTENANCE NOTES

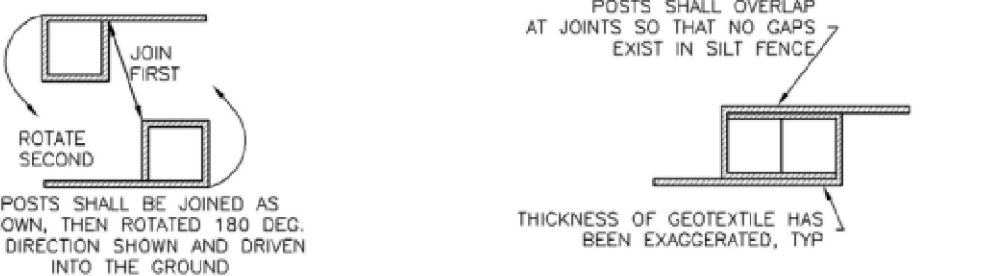
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, 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.



SILT FENCE



LOG JOINTS

SECTION A

SF-1. SILT FENCE

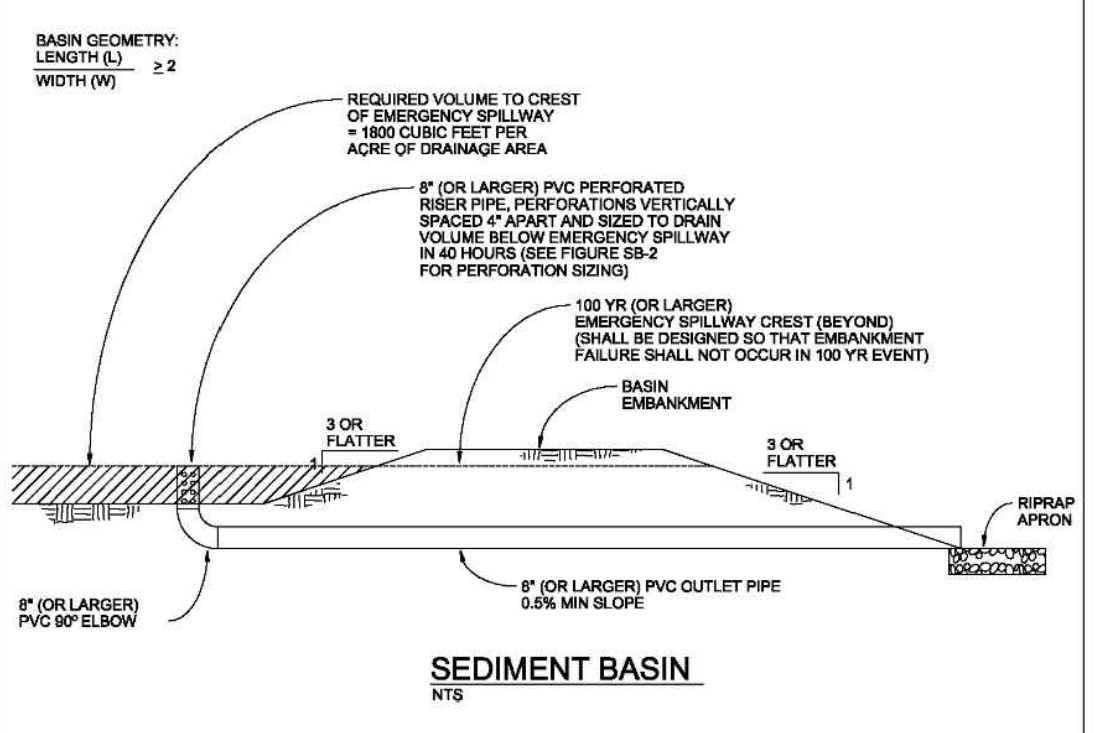
SILT FENCE INSTALLATION NOTES

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER RUNDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTATION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.



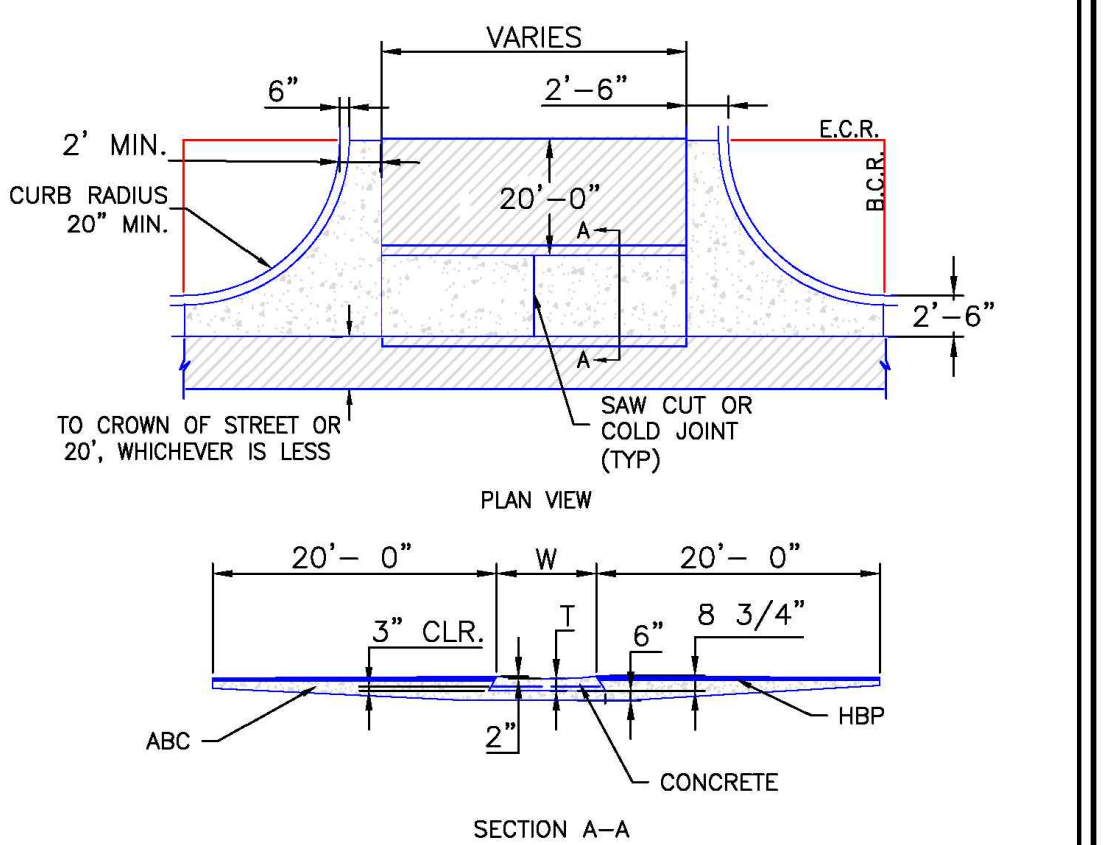
SEDIMENT BASIN

SECTION A

SEDIMENT BASIN NOTES

- INSTALLATION REQUIREMENTS**
- SEDIMENT BASINS SHALL BE INSTALLED BEFORE ANY CLEARING AND/OR GRADING IS UNDERTAKEN.
 - THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
 - THE OUTLET OF THE BASIN SHALL BE DESIGNED TO DRAIN ITS VOLUME IN 40 HOURS.
 - THE OUTLET IS TO BE LOCATED AT THE FURTHEST DISTANCE FROM THE INLET OF THE BASIN. BAPPLERS MAY BE NEEDED TO INCREASE THE FLOW LENGTH AND SETTLING TIME.
 - EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 10% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
 - EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 998.
 - WHEN A BASIN IS INSTALLED NEAR A RESIDENTIAL AREA FOR SAFETY REASONS, A SIGN SHALL BE POSTED AND THE AREA SECURED WITH A FENCE.
- MAINTENANCE REQUIREMENTS**
- CONTRACTOR SHALL INSPECT SEDIMENT BASINS AFTER EACH RAINFALL AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
 - SEDIMENT BASINS SHALL BE CLEANED OUT BEFORE SEDIMENT HAS FILLED HALF THE VOLUME OF THE BASIN.
 - SEDIMENT BASINS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ACCEPTABLE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SB-1 Sediment Basin Construction Detail and Maintenance Requirements



PLAN VIEW

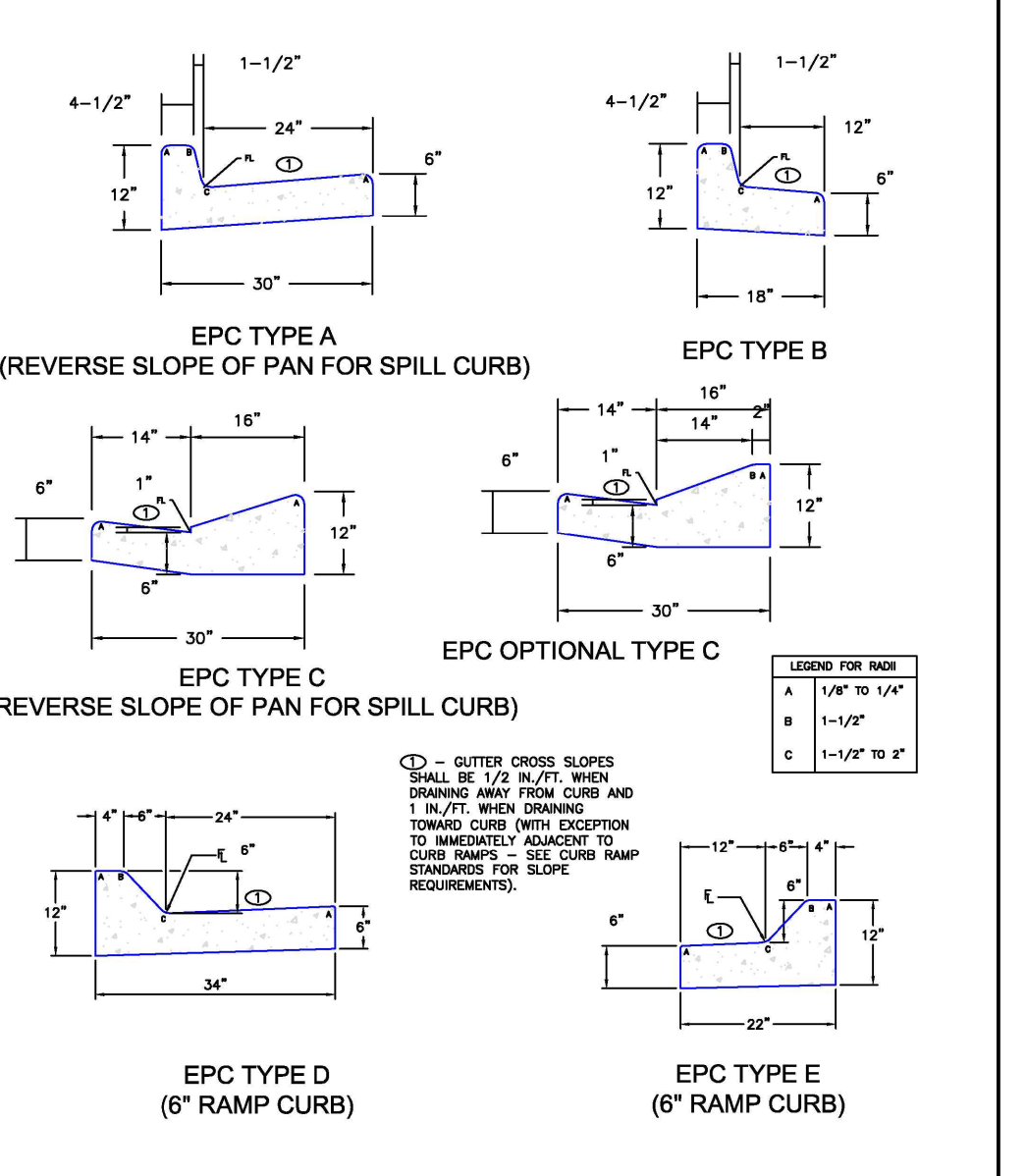
SECTION A-A

NOTES

- W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
- T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
- 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
- DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

SCALE: NOT TO SCALE

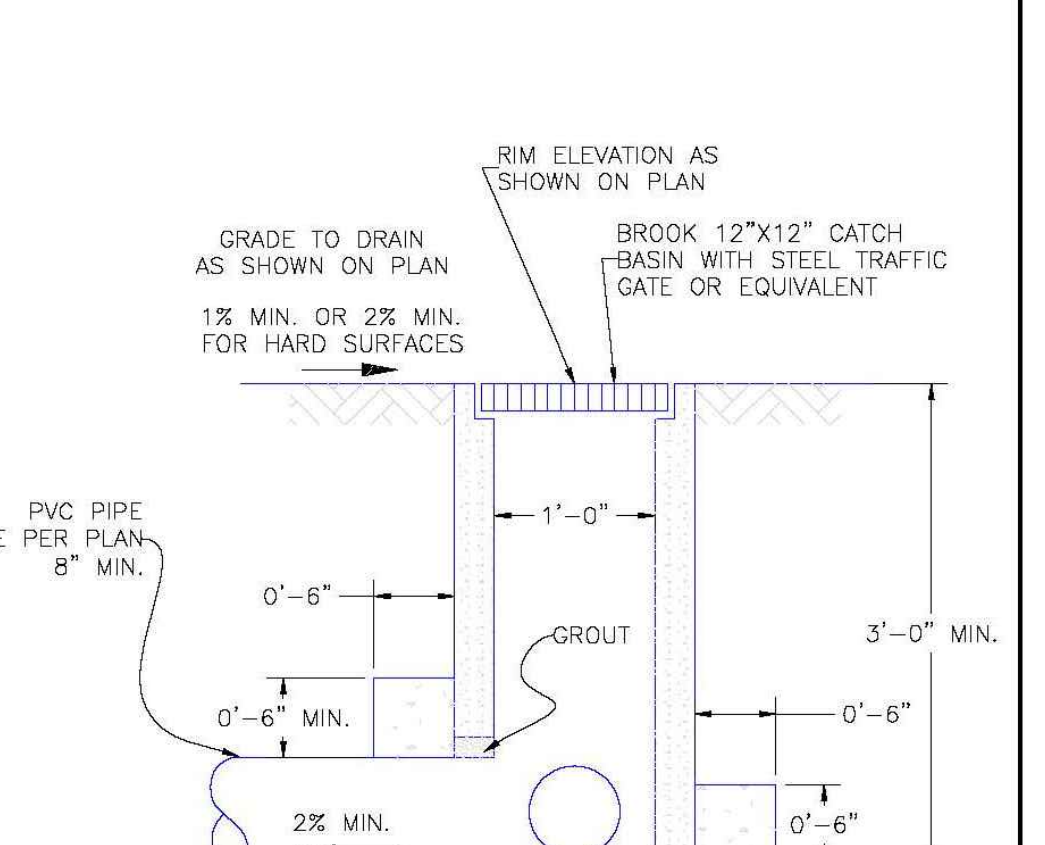
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APPROVED BY: André P. Brackin	REVISION DATE: 12/8/15	FILE NAME: SD_2-26



SCALE: NOT TO SCALE

DATE APPROVED: 6/23/20	Typical Curb and Gutter Details Standard Drawing	
APPROVED BY: Jennifer E. Irvine	REVISION DATE: 6/23/20	FILE NAME: SD_2-20

City of Colorado Springs Stormwater Quality Figure SB-1 Sediment Basin Construction Detail and Maintenance Requirements



PLAN VIEW

SECTION A-A

NOTES

- W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
- T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
- 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
- DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

SCALE: NOT TO SCALE

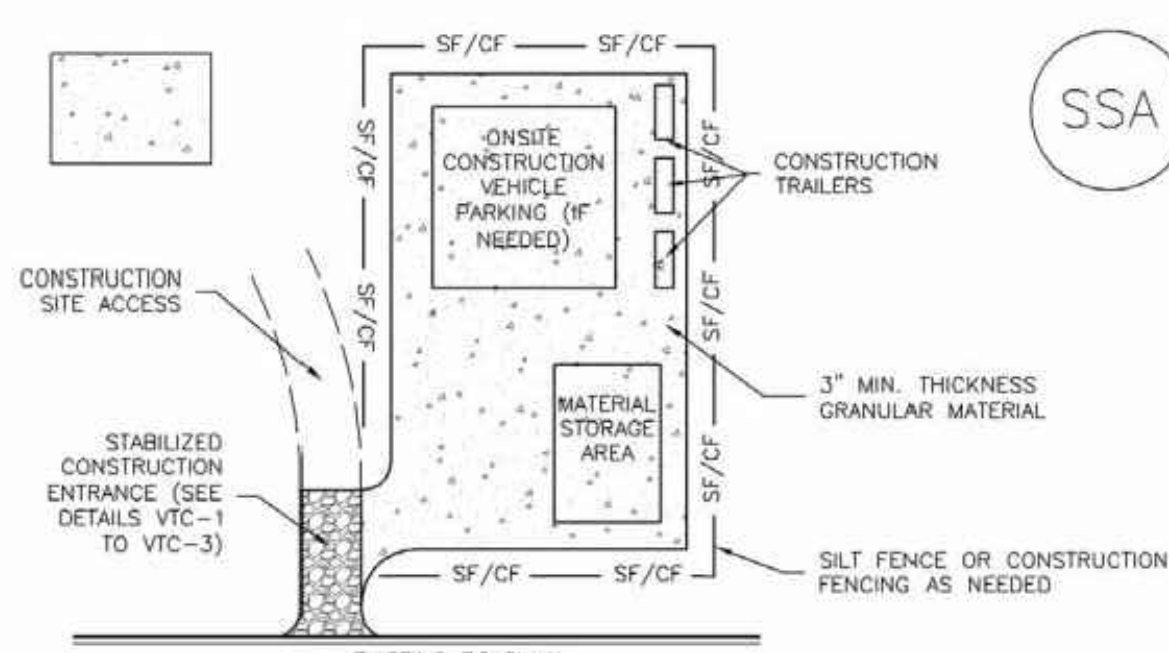
DATE APPROVED: 8/11/11	Grate Inlet for Common Areas (guidance) Standard Drawing	
APPROVED BY: André P. Brackin	REVISION DATE: 11/10/04	FILE NAME: SD_3-8

NOT FOR CONSTRUCTION FOR CIVIL ONLY

NORTHCREST PEMB DEVELOPMENT
2510 & 2522 CANADA DRIVE
COLORADO SPRINGS, COLORADO
LEISURE CONSTRUCTION

EROSION CONTROL DETAILS 1
DESIGN DEVELOPMENT

ENG: DOW	DRAWN: TPT	
CHECKED: DOW	DATE: 08/12/2022	
#	REVISION	DATE
1	180649	
JOB NO. 180649		
SHEET NO. C-09		



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR LOCATION OF STAGING AREA(S).
CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

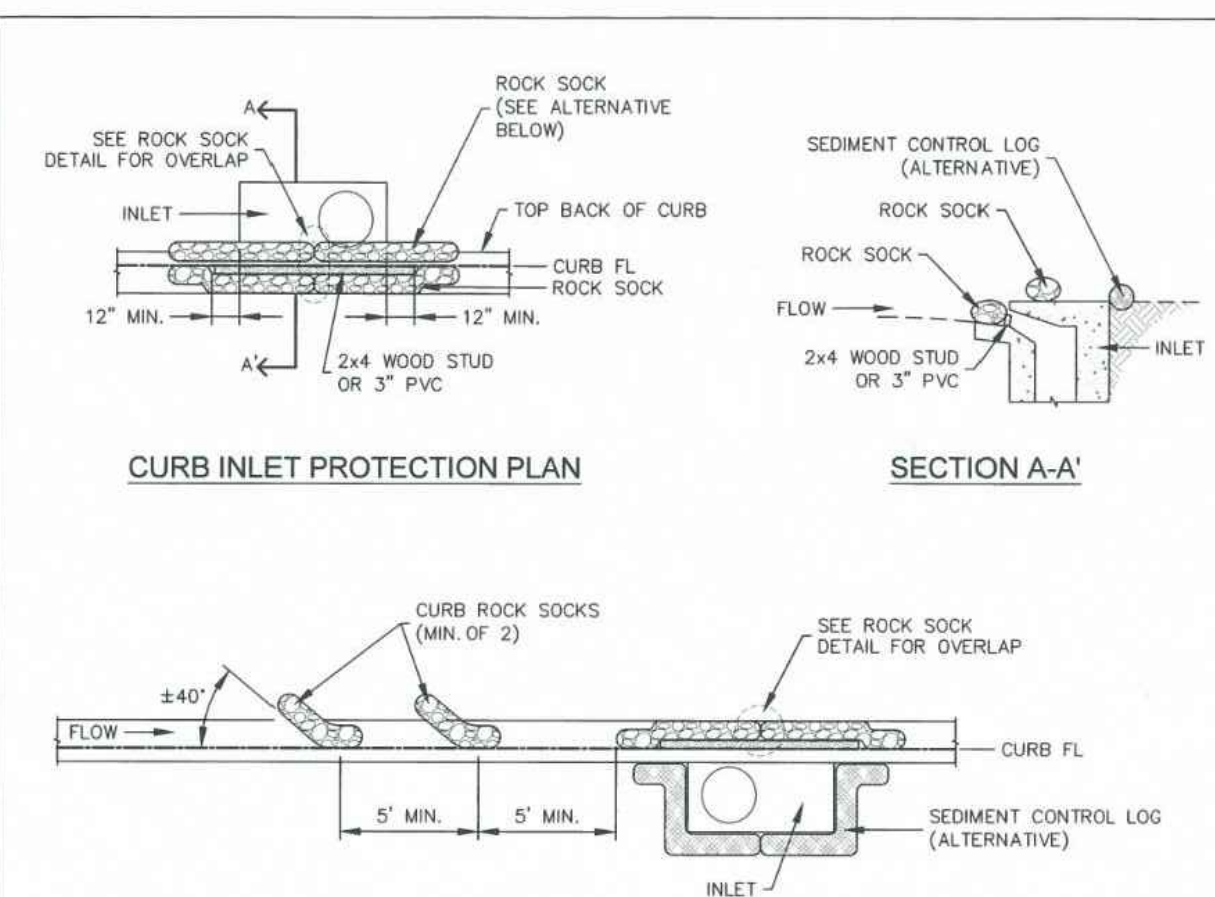
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

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



CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

INSTALLATION NOTES

- SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
- ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
- AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADIENT INLETS.
- ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

MAINTENANCE NOTES

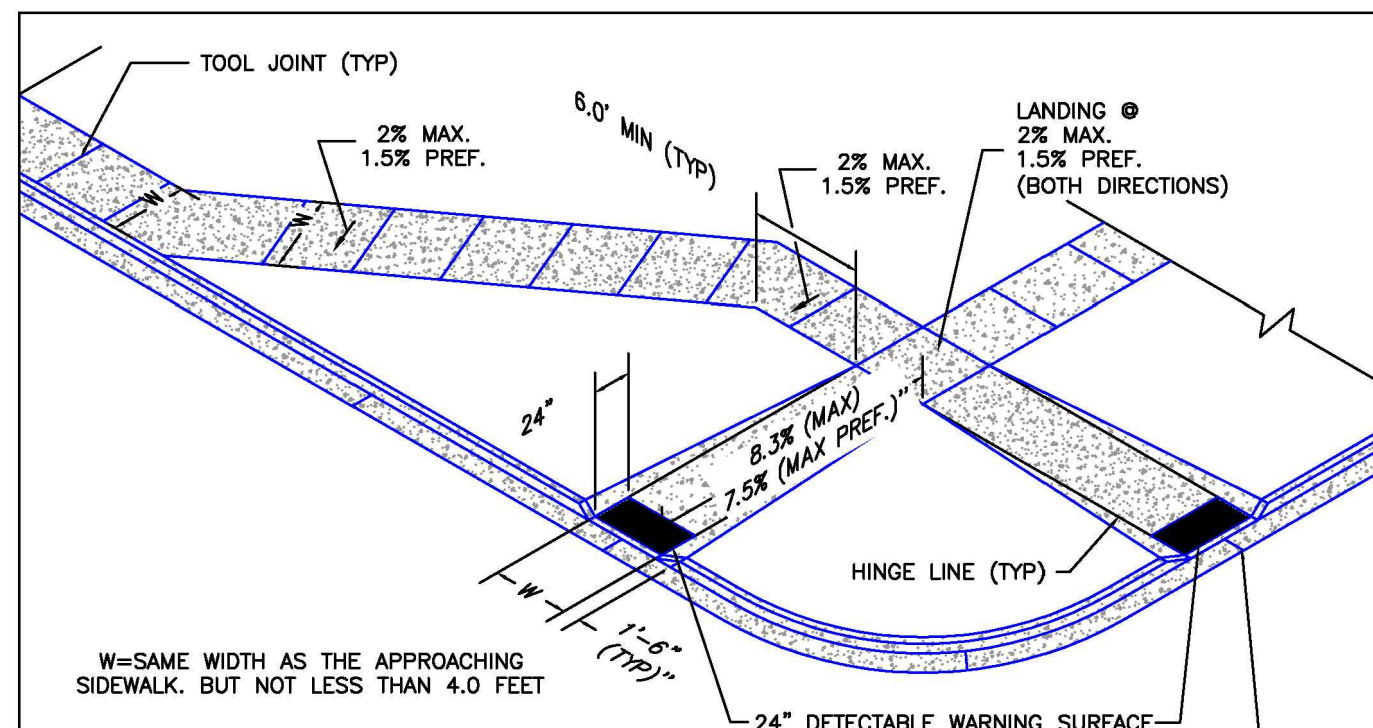
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.



ON-GRADE INLET PROTECTION

APPROVED: *Jennifer E. Irvine*

ISSUED: 10/27/19 REVISED: 8/19/2022 DRAWING NO. 000-IP-1



PEDESTRIAN RAMP NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN CURB RAMP CONSTRUCTION SHALL BE A MINIMUM 4500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
- PEDESTRIAN CURB RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 8.3% MAXIMUM RUNNING RAMP SLOPE DUE TO STREET INTERSECTION GRADIES AND/OR ALIGNMENTS. SEE EGM SECTION 6.3.6 FOR PEDESTRIAN PUSHBUTTON LOCATION REQUIREMENTS.
- DETECTABLE WARNING SURFACE SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
- DETECTABLE WARNING SURFACE SHALL BE PREFABRICATED, CAST IRON (PATINA NATURAL FINISH) AND IN ACCORDANCE WITH EGM CHAPTER 6 AND SD-2-42. THERMOPLASTIC TRUNCATED DOMES AND PAVERS WILL NOT BE ACCEPTED.
- THE DETECTABLE WARNING SURFACE SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- PEDESTRIAN CURB RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
- ALL PEDESTRIAN CURB RAMPS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MD-BLOCK OR TERMINAL RAMPS WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
- DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED PEDESTRIAN CURB RAMP AREAS AND LANDINGS ARE PROHIBITED.
- THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A RAMP SHALL NOT EXCEED 5%.

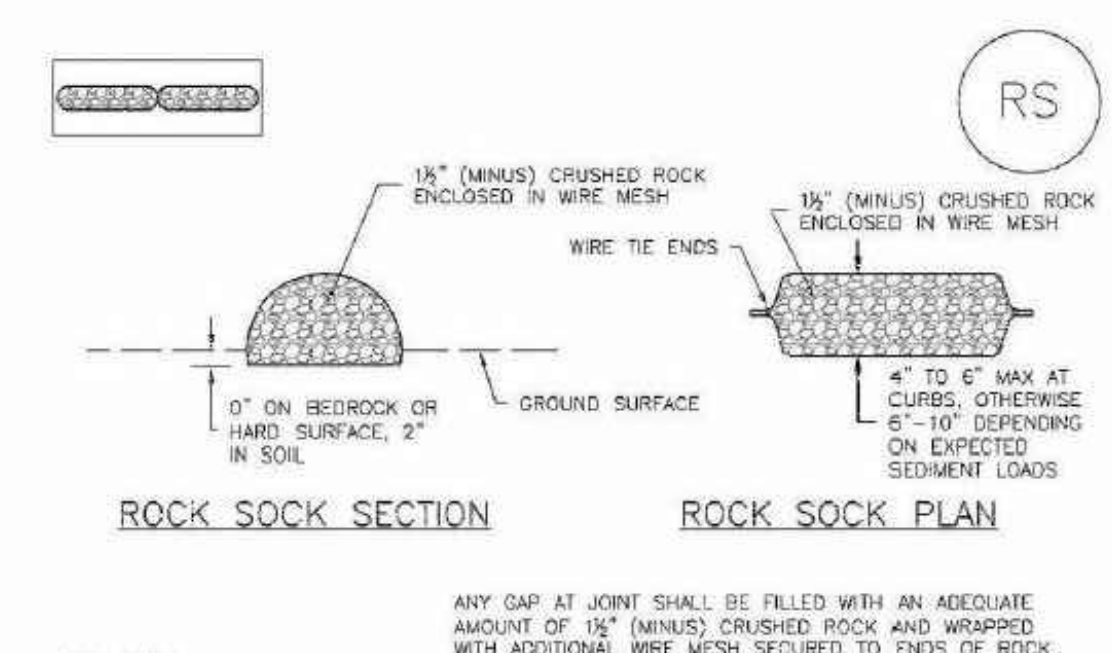
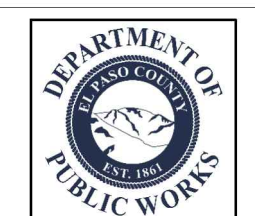
GENERAL NOTES

- WHERE THE 1"-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA (PEDESTRIAN CIRCULATION PATH), THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
- PEDESTRIAN WALKWAY (PEDESTRIAN ACCESS ROUTE) AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

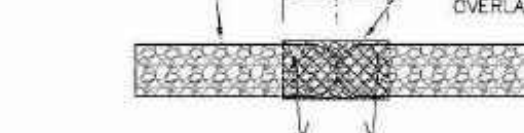
Pedestrian Curb Ramp Detail Standard Drawing

DATE APPROVED: 6/23/20
JENNIFER E. IRVINE
DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 6/23/20
FILE NAME: SD_2-41



ROCK SOCK JOINTING



GRADATION TABLE

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES	NO. 4
2"	100	
1 1/2"	90 - 100	
1"	20 - 55	
3/4"	0 - 15	
3/8"	0 - 5	

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

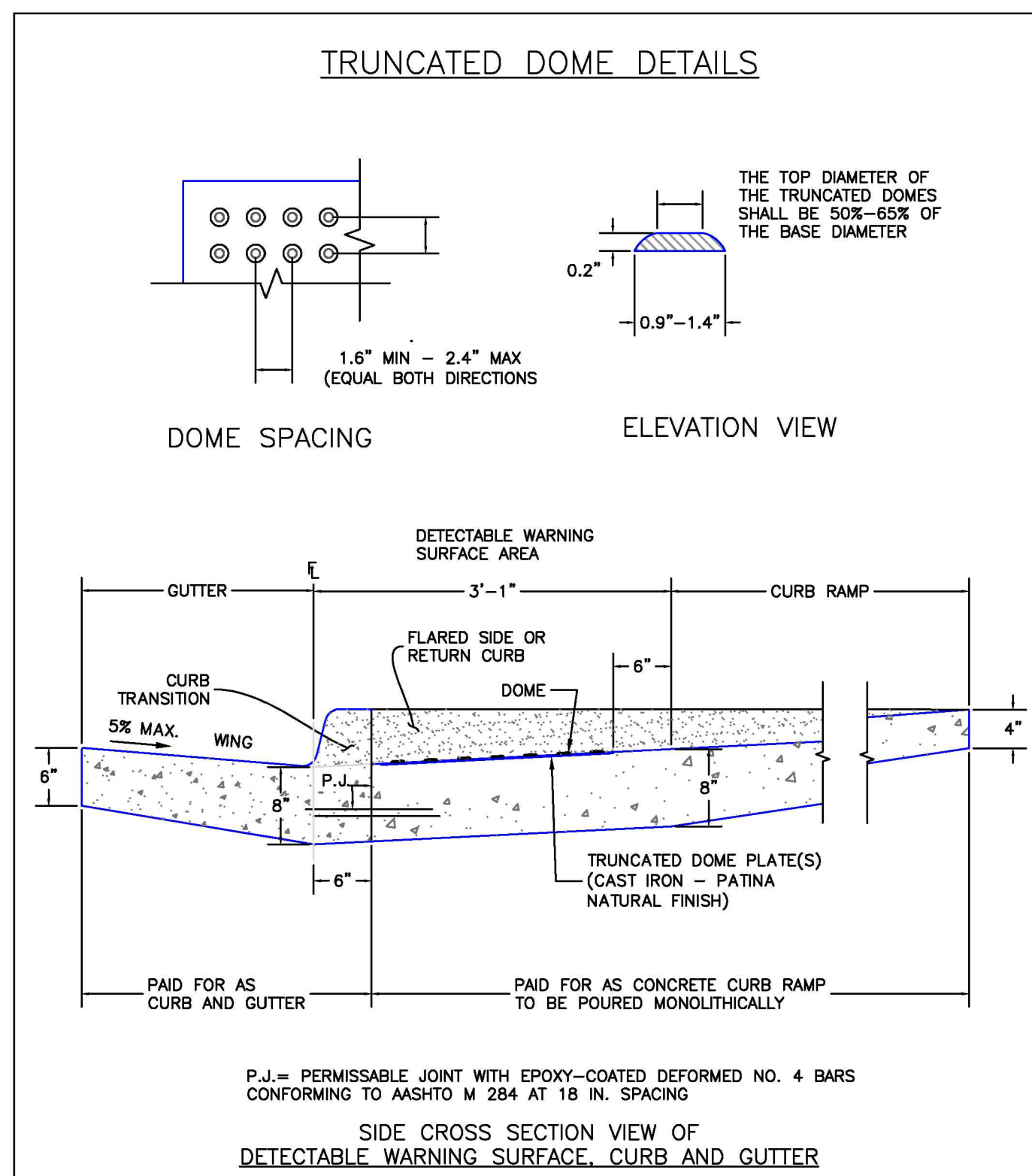
ROCK SOCK INSTALLATION NOTES

- SEE PLAN VIEW FOR LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1 1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2 INCH, RECOMMENDED MINIMUM ROLL WIDTH OF 48 INCHES.
- 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.
- JEFFERSON COUNTY MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE IF SPECIFIED ON THE APPROVED PLANS.

ROCK SOCK MAINTENANCE NOTES

- 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.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY JEFFERSON COUNTY.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY JEFFERSON COUNTY.

ROCK SOCK



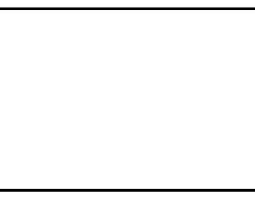
DETECTABLE WARNING SURFACE AREA



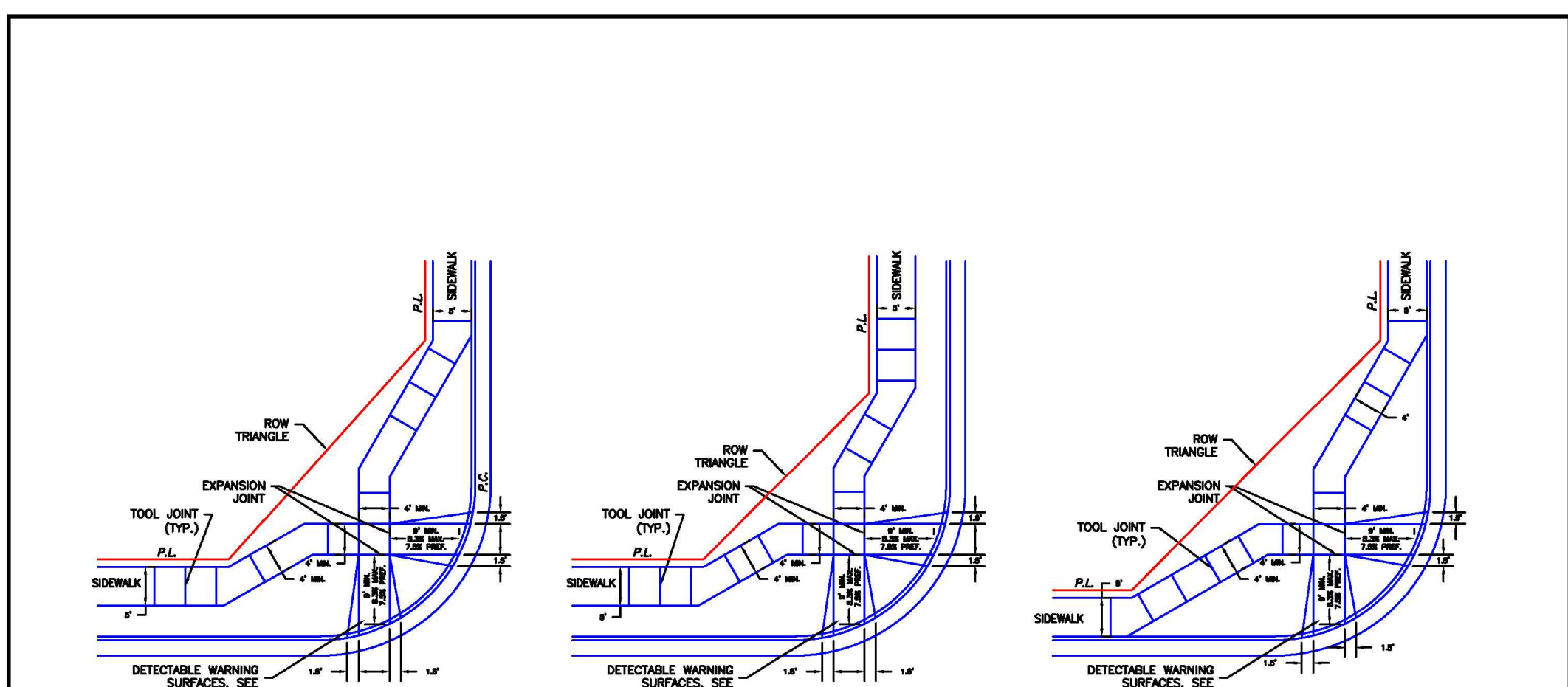
P.J.= PERMISSIBLE JOINT WITH EPOXY-COATED FERRULE NO. 4 BARS CONFORMING TO AASHTO M 284 AT 18 IN. SPACING

DATE APPROVED: 6/23/20
JENNIFER E. IRVINE
DEPARTMENT OF PUBLIC WORKS

REVISION DATE: 6/23/20
FILE NAME: SD_2-42



NOTE: THE STABILIZED DRIVEWAY ACCESS/DRIVEWAY TO BE CONSTRUCTED TO VEHICLE TRACKING CONTROL STANDARDS WITH THE PROPOSED DRIVEWAY AGGREGATE BASE COURSE MATERIAL AND COMPACTION. A MINIMUM OF 30' INSIDE RADII ARE TO BE CONSTRUCTED FOR THE STABILIZED DRIVEWAY ACCESS/DRIVEWAY AND VEHICLE TRACKING FOR HEAVY VEHICLE INGRESS/EGRESS.



SCALE: NOT TO SCALE

DATE APPROVED: 6/23/20
JENNIFER E. IRVINE
DEPARTMENT OF PUBLIC WORKS

Pedestrian Curb Ramp Detail Standard Drawing

REVISION DATE: 6/23/20
FILE NAME: SD_2-40



ROCKY MOUNTAIN GROUP

ARCHITECTS

Geotechnical
Materials Testing
Civil Planning

ARCHITECTURAL
Structural
Forensics

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SOUTHERN COLORADO
Sedimentation, Driveway Design, Right-of-Way, Easements

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NORTHCREST PEMB DEVELOPMENT

2510 & 2522 CANADA DRIVE
COLORADO SPRINGS, COLORADO

LEISURE CONSTRUCTION

EROSION CONTROL DETAILS 2

PROJECT STATUS: DESIGN DEVELOPMENT

ENG:	DGW	
DRAWN:	TPT	
CHECKED:	DGW	
DATE:	08/12/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-10	

SEEDING & MULCHING

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

SOIL PREPARATION

1. IN AREAS TO BE SEEDDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRAGILE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

SEEDING

1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE.
3. BROADCAST SEEDING OR HYDRO-SEEDED WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
 - SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDED
 - BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL

MULCHING

1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
2. MULCHING REQUIREMENTS INCLUDE:
 - HAY OR STRAW MULCH
 - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
 - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
 - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
 - HYDRAULIC MULCHING
 - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
 - IF HYDRO-SEEDED IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION.
 - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
 - EROSION CONTROL BLANKET
 - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

SM

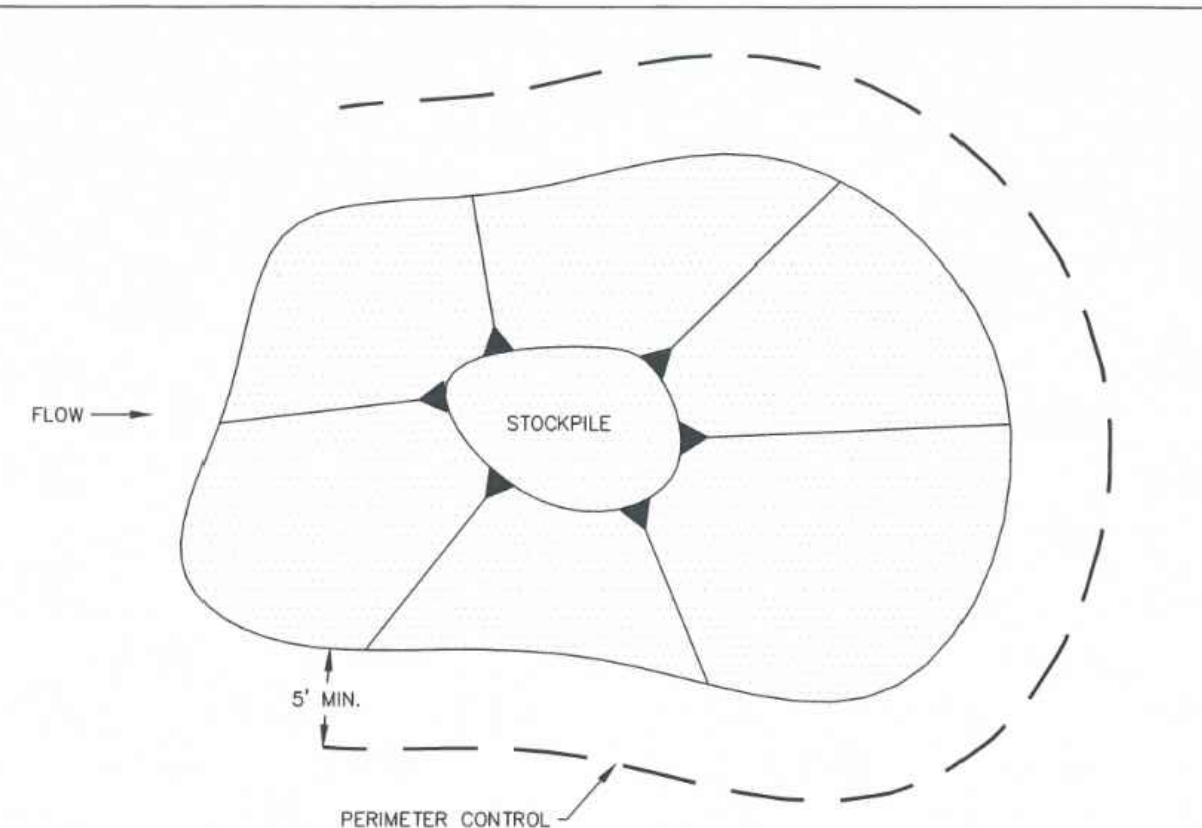
STORMWATER ENTERPRISE

SEEDING & MULCHING

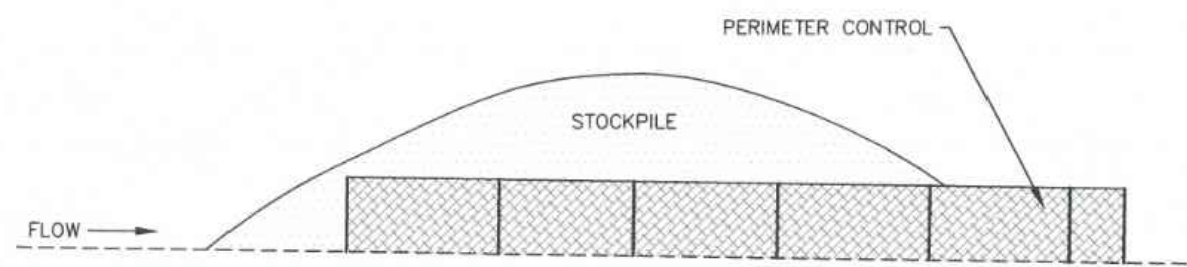
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SHEET MANAGER: *[Signature]*

ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO: 900-SM



STOCKPILE PROTECTION PLAN



STOCKPILE PROTECTION ELEVATION

INSTALLATION NOTES

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

SP

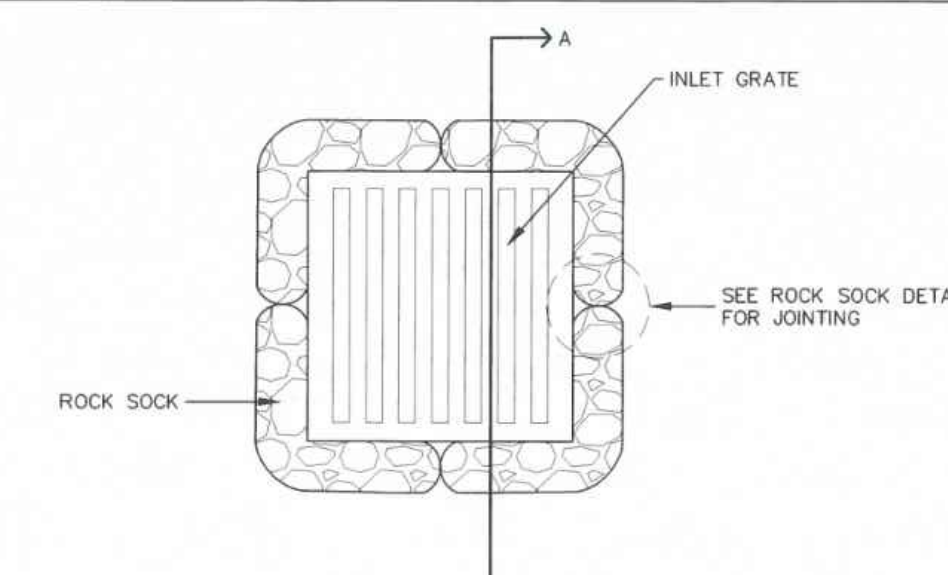
STORMWATER ENTERPRISE

STOCKPILE PROTECTION

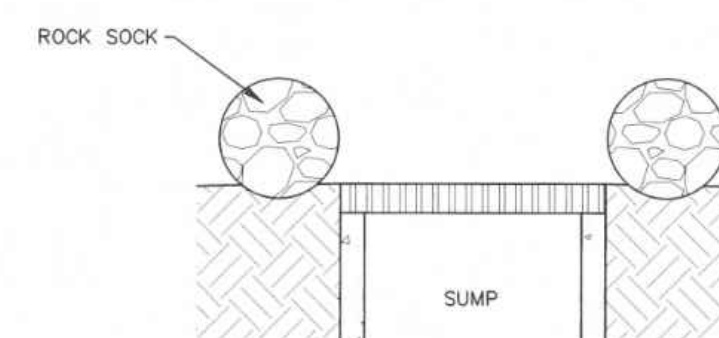
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ROCK SOCK SUMP INLET PROTECTION PLAN



SECTION A-A'

INSTALLATION NOTES

1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.
3. CONTROL MEASURES MUST BE WRAPPED AROUND INLET AS TIGHTLY AS POSSIBLE.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-2

STORMWATER ENTERPRISE

SUMP INLET PROTECTION

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ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO: 900-IP-2

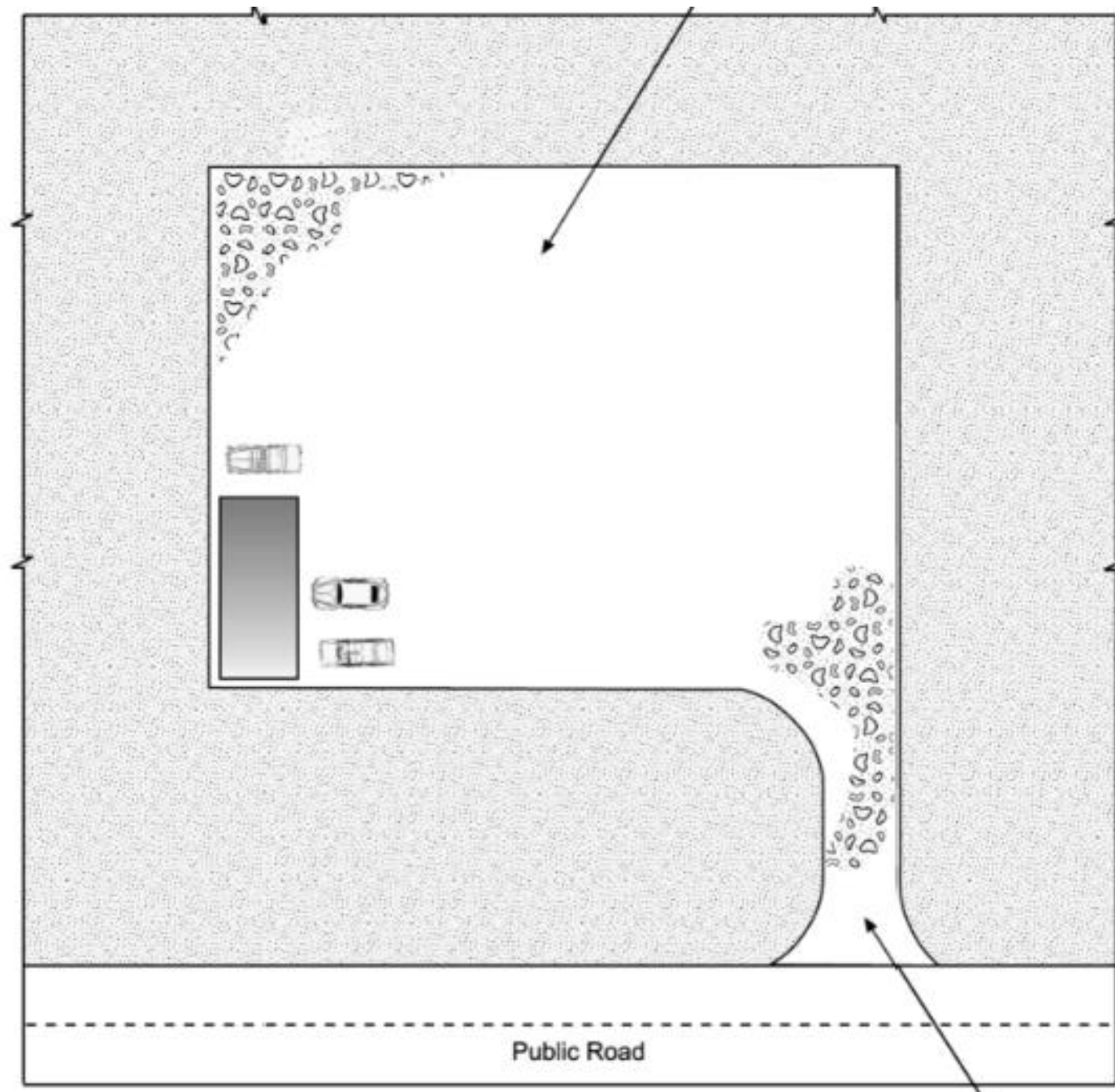


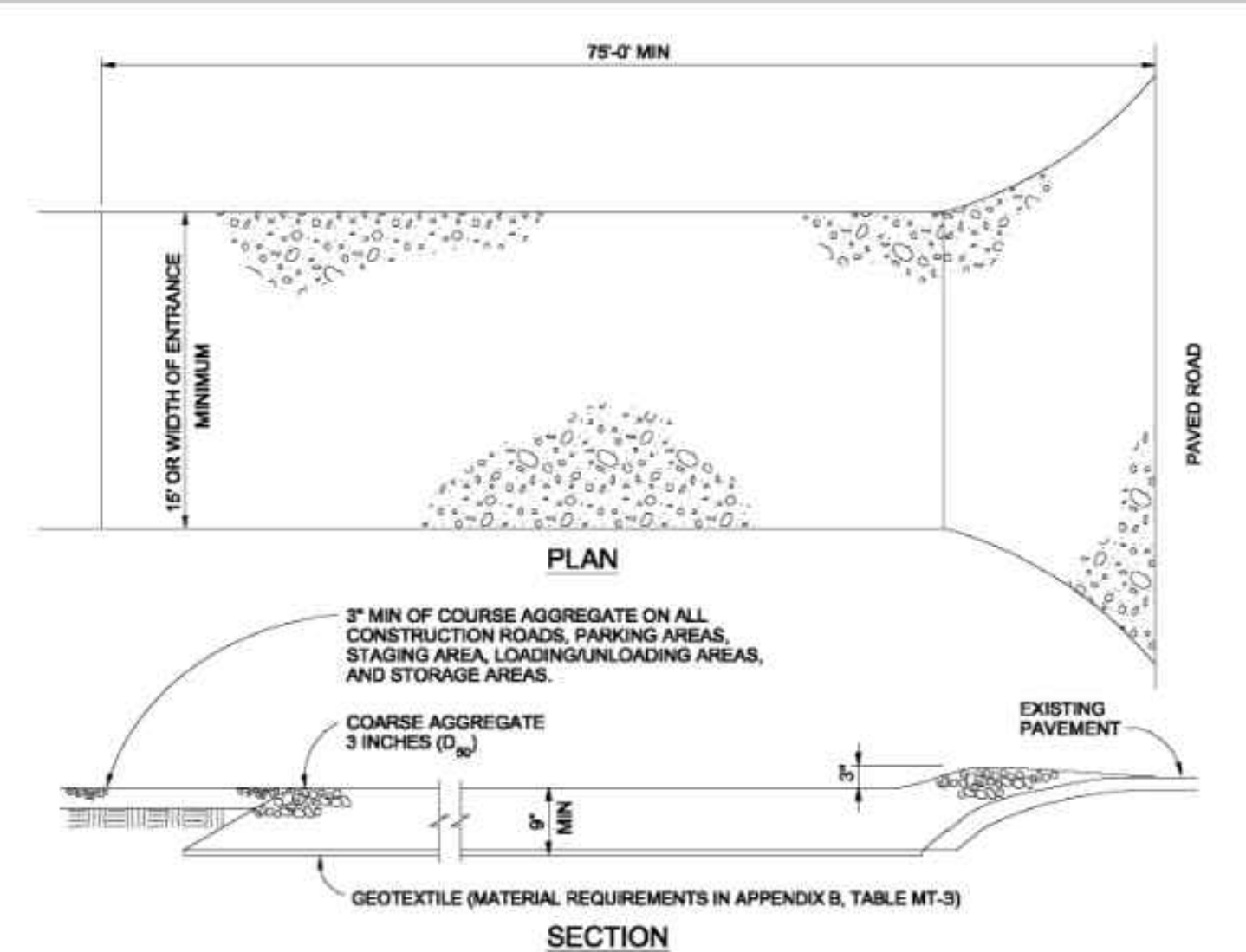
Table VT-1

	Case 1	Case 2
Gravel Thickness	9"	3"
Filter Fabric	YES	NO

City of Colorado Springs Storm Water Quality

Case 1 Construction Entrance

Figure VT-1 Vehicle Tracking Application Examples



VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs Stormwater Quality

Figure VT-2 Vehicle Tracking Application Examples

ROCKY MOUNTAIN GROUP

ARCHITECTS

Geotechnical
Materials Testing
Civil/Planning

RMG ENGINEERS

Architectural
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Forensics

SOUTHERN COLORADO
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Stormwater Management, Drainage Planning, Right-of-Way

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NORTHCREST PEMB DEVELOPMENT

2510 & 2522 CANADA DRIVE

COLORADO SPRINGS, COLORADO

LEISURE CONSTRUCTION

EROSION CONTROL DETAILS 3

SHEET STATUS

PROJECT STATUS

DESIGN DEVELOPMENT

ENG: DOW
DRAWN: TPT
CHECKED: DOW

DATE
08/12/2022

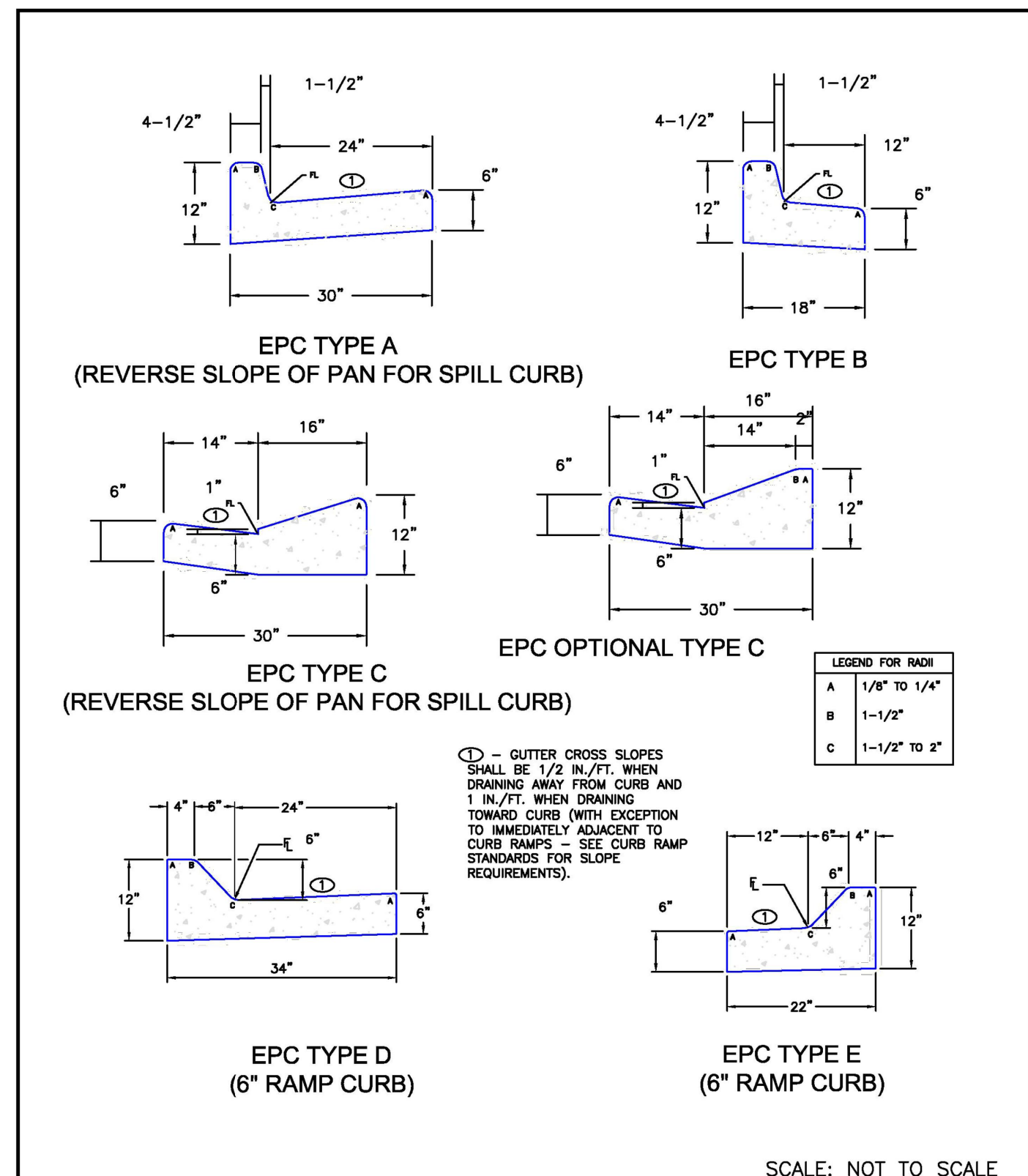
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JOB NO. **180649**

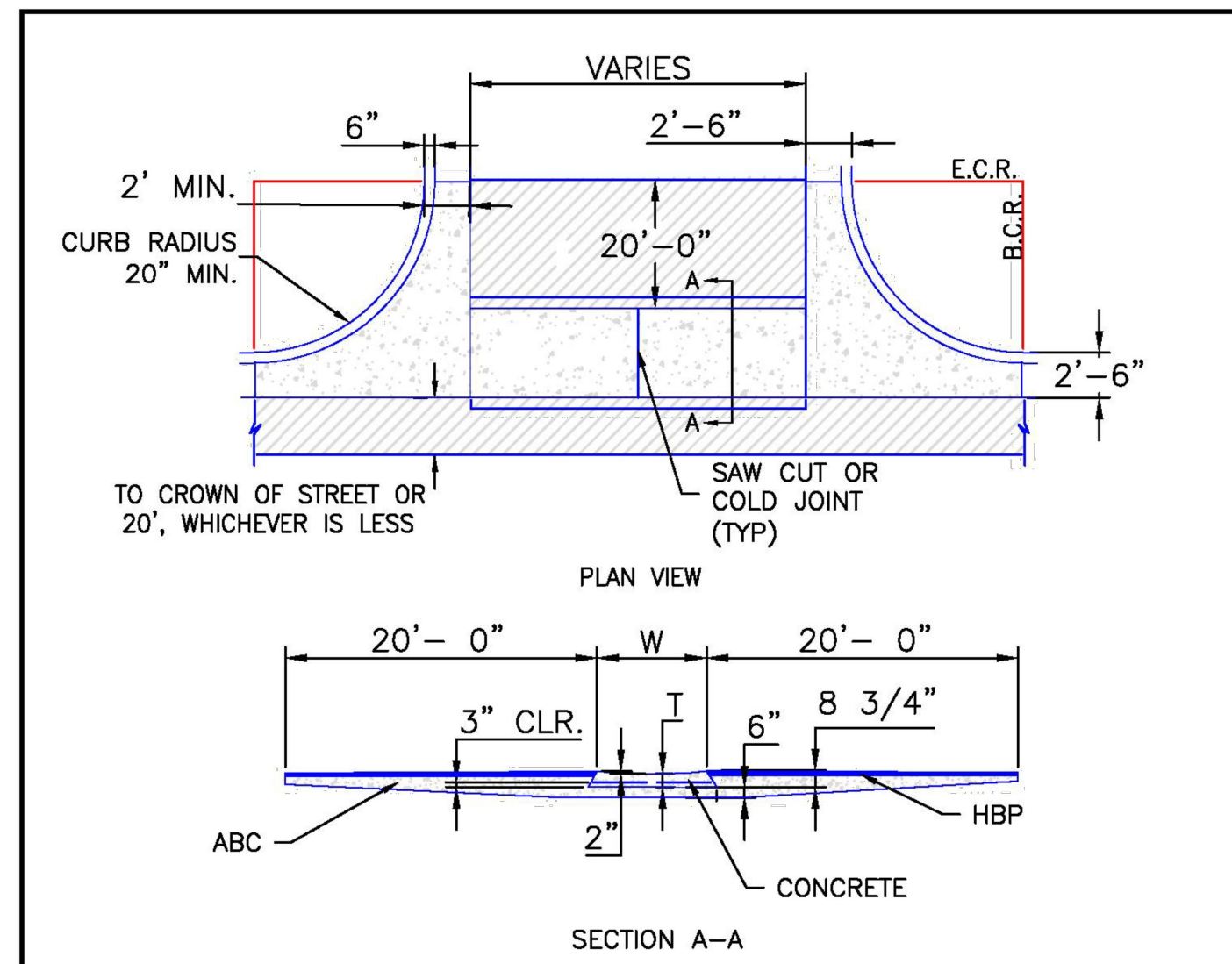
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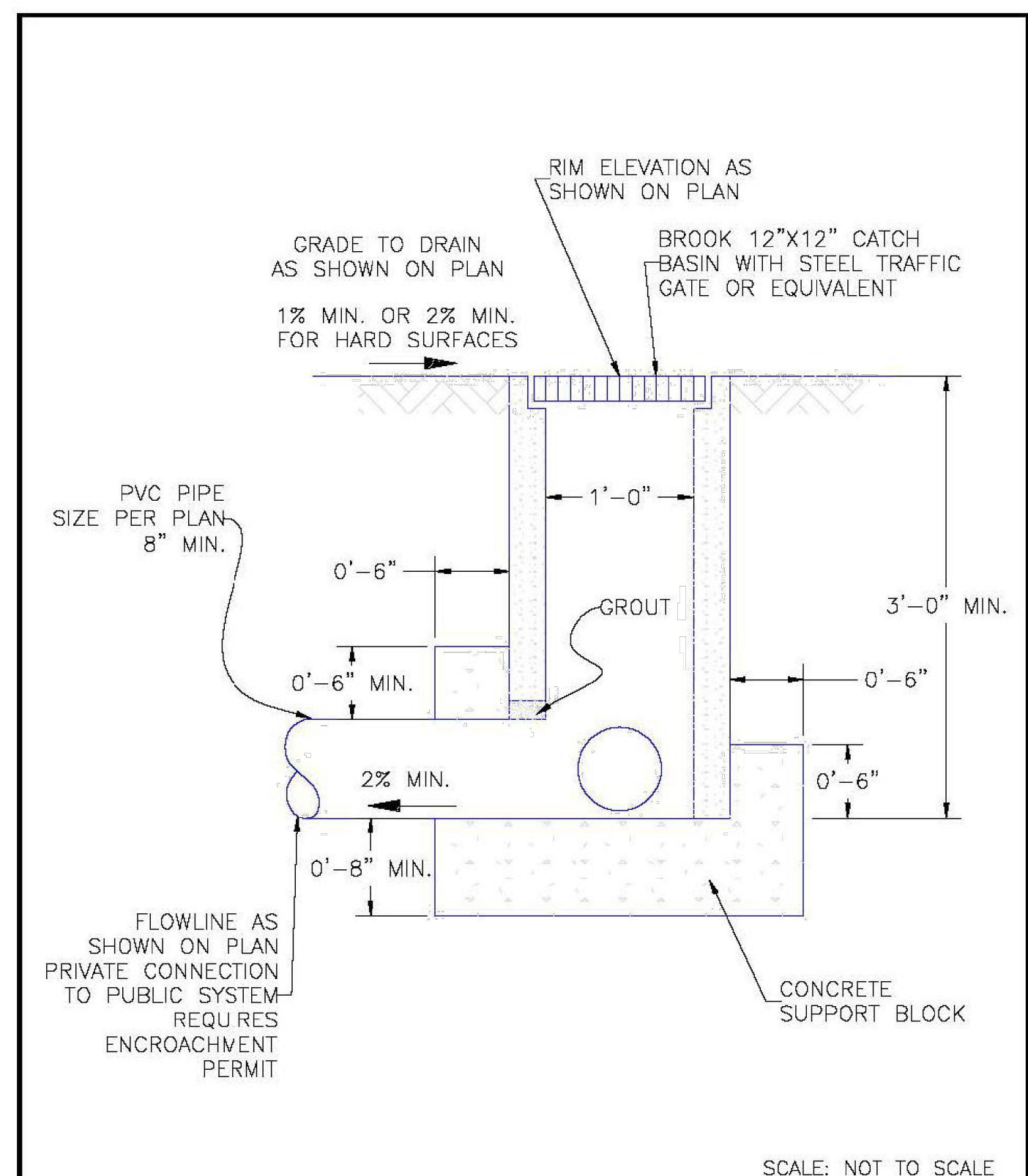
DATE APPROVED: 6/23/20	Typical Curb and Gutter Details Standard Drawing	
APPROVED BY: Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-20	



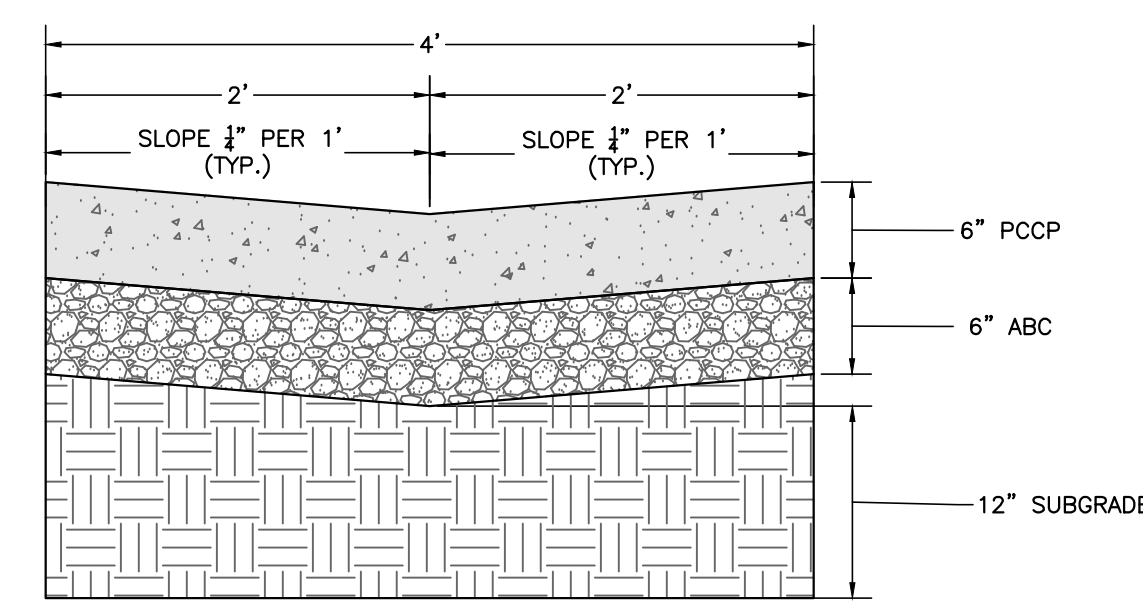
NOTES

1. W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
2. T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
3. = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

DATE APPROVED: 8/11/11	Typical Cross Pan Layout Detail Standard Drawing	
APPROVED BY: André P. Brackin	REVISION DATE: 12/8/15 FILE NAME: SD_2-26	



DATE APPROVED: 8/11/11	Grate Inlet for Common Areas (guidance) Standard Drawing	
APPROVED BY: André P. Brackin	REVISION DATE: 11/10/04 FILE NAME: SD_3-8	



CONCRETE DRAINAGE PAN
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NORTHCREST PEMB DEVELOPMENT
2510 & 2522 CANADA DRIVE
COLORADO SPRINGS, COLORADO
LEISURE CONSTRUCTION
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SHEET NAME: EROSION CONTROL DETAILS 4	PROJECT STATUS: DESIGN DEVELOPMENT	
ENG: DGW	DRAWN: TPT	
CHECKED: DGW	DATE: 08/12/2022	
#	REVISION	DATE
JOB NO.:	180649	
SHEET NO.:	C-12	
	of 12	