

COLORADO SPRINGS AIRPORT

A PORTION OF FILING 1F LOT 7

INTEGRATION PHASE 4

GRADING AND EROSION CONTROL PLAN INITIAL & INTERIM PHASE

LOCATED IN A PORTION OF SECTIONS 4, 5, & 6, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPLE MERIDIAN,
LOCATED IN THE CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO.

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. IF SUCH WORK IS PERFORMED IN ACCORDANCE WITH THE GRADING AND EROSION CONTROL PLAN, THE WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY, OR ADVERSELY AFFECT THE SAFETY, USE, OR STABILITY OF A PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY.

PRINTED NAME: JEFFREY M. MOHR DATE: _____
PHONE NUMBER: (720) 502-6668

SEAL:

AIRPORT ENTERPRISE FUND MANAGER'S STATEMENT

THE AIRPORT ENTERPRISE WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN INCLUDING CONSTRUCTION CONTROL MEASURE INSPECTION REQUIREMENTS AND FINAL STABILIZATION REQUIREMENTS ACCORDING TO THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. I FURTHER UNDERSTAND THAT FIELD CHANGES MUST BE REVIEWED BY THE SWENT REVIEW ENGINEER TO ENSURE CONFORMANCE WITH THE ORIGINAL DESIGN INTENT. I ACKNOWLEDGE THE RESPONSIBILITY TO DETERMINE WHETHER THE CONSTRUCTION ACTIVITIES ON THESE PLANS REQUIRE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) PERMITTING FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

OWNER SIGNATURE: _____ DATE: _____
NAME OF OWNER: TROY STOVER PHONE: (719) 550-1967
TITLE: ASSISTANT DIRECTOR OF AVIATION EMAIL: TSTOVER@SPRINGSGOV.COM
DBA: COLORADO SPRINGS AIRPORT

CITY OF COLORADO SPRINGS GRADING AND EROSION CONTROL REVIEW

THIS GRADING AND EROSION CONTROL PLAN IS FILED IN ACCORDANCE WITH CITY CODE. THIS PLAN IS REVIEWED IN ACCORDANCE WITH THE STORMWATER CONSTRUCTION MANUAL, LATEST REVISIONS.

FOR THE SWENT MANAGER DATE: _____
NOTES: _____

PROJECT INTENT

THIS GRADING AND EROSIONAL CONTROL PLAN IS INTENDED SUPPORT CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE INSTALLATION OF POND 705 AND CORRESPONDING DRAINAGE AND UTILITY INFRASTRUCTURE. THE LIMITS OF CONSTRUCTION AND DISTURBANCE CONSISTS OF APPROXIMATELY 44.3 ACRES.

LIST OF ABBREVIATIONS

COA = COLORADO SPRINGS AIRPORT
EX = EXISTING
GEC = GRADING AND EROSION CONTROL
PR = PROPOSED
PVMT = PAVEMENT
SA = SERVICE AREA
STM = STORM
TYP = TYPICAL

SITE SOILS

PER THE NATURAL RESOURCES CONSERVATION SERVICES (NRCS) SOIL REPORT, SITE SOILS ARE CLASSIFIED AS A &B SOILS. SEE THE NRCS SOILS REPORT INCLUDED IN THE CITY STORMWATER MANAGEMENT PLAN.

ANTICIPATED CONSTRUCTION/LAND DISTURBANCE SCHEDULE

GRADINF AND EROSION CONTROL SCHEDULE WILL BE INCLUDED FOLLOWING FIRST SUBMITTAL AND REVIEW.

RECIEIVING WATERS

FOUNTAIN CREEK

LEGAL DESCRIPTION

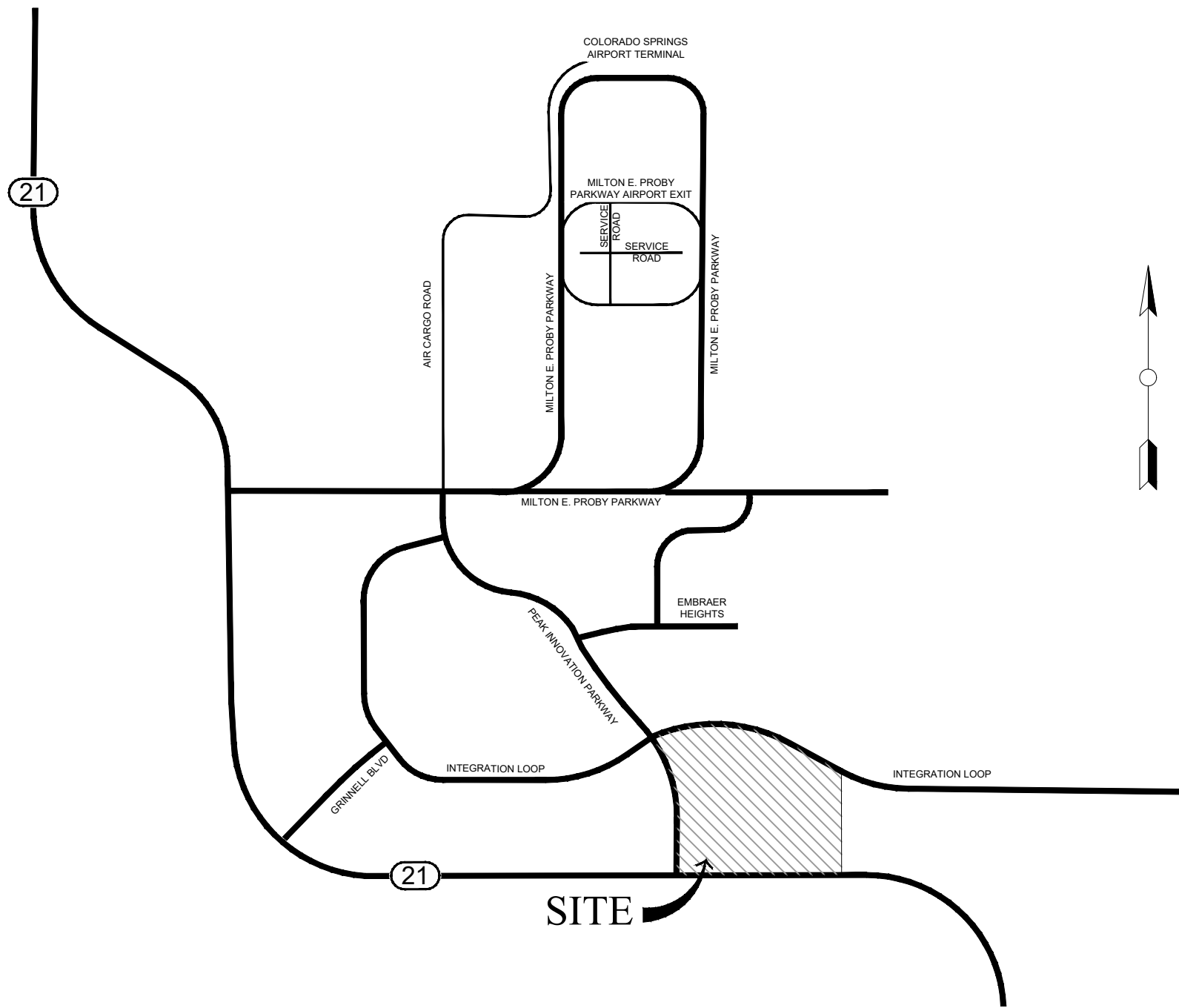
A PORTION OF LOT 7 COLORADO SPRINGS AIRPORT FILING 1D, LOCATED IN THE NORTH 1/4 OF SECTIONS 5 AND 6, TOWNSHIP 14 SOUTH AND A PORTION OF LOT 1, COLORADO SPRINGS AIRPORT AND INDUSTRIAL PARK FILING NO. 1, LOCATED IN THE SOUTH 1/4 OF SECTIONS 31 AND 32, TOWNSHIP 15 SOUTH, ALL OF RANGE 65 WEST, 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO.

BENCHMARK

#5 REBAR LOCATED APPROXIMATELY 75' SOUTHEAST OF THE SOUTHEAST CORNER OF THE LIFT STATION BUILDING MARKED WITH 4' CROSS LATH.

NORTHING: 62654.52
EASTING: 29107.44
ELEVATION: 5924.01

DATUM: NAVD 88



VICINITY MAP

SCALE 1" = 2000'

INITIAL & INTERIM PHASE NOTE:

1. THIS APPROVAL IS FOR INITIAL AND INTERIM PHASES ONLY. FINAL PHASE GEC PLAN TO FOLLOW UNDER SEPARATE COVER. NO FINAL PHASE WORK MAY COMMENCE UNTIL FINAL PHASE GEC PLAN APPROVAL.

GENERAL PLAN NOTES

1. NO CLEARING, GRADING, EXCAVATION, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE ALLOWED (EXCEPT FOR WORK DIRECTLY RELATED TO THE INSTALLATION OF INITIAL CONTROL MEASURES) UNTIL A CITY GEC PERMIT HAS BEEN ISSUED.
2. ALL LAND DISTURBING ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE APPROVED GEC PLAN AND CSWMP.
3. INITIAL CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TAKING PLACE. AN INITIAL SITE INSPECTION WILL NOT BE SCHEDULED UNTIL A CITY GEC PERMIT HAS BEEN "CONDITIONALLY APPROVED". CALL CITY STORMWATER INSPECTIONS, 385-5980, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE AN INITIAL INSPECTION AND OBTAIN FULL PERMIT APPROVAL.
4. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), INCLUDING REGULATIONS PROMULGATED AND CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE CITY'S MS4 PERMIT, STORMWATER CONSTRUCTION MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
5. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
6. ALL CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION MEASURES ARE IMPLEMENTED. TEMPORARY CONSTRUCTION CONTROL MEASURES MUST BE REMOVED PRIOR TO PERMIT CLOSEOUT.
7. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS OR ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
8. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONSTRUCTION CONTROL MEASURES MAY BE REQUIRED BY THE GEC INSPECTOR IF DEEMED NECESSARY BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
9. ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL, WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
10. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES.
11. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO THE STORM SEWER SYSTEM AT ANY TIME.
12. SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT ALL STORAGE, EQUIPMENT FUELING, AND EQUIPMENT SERVICING AREAS SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE MS4, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITY. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT ADEQUATE PROTECTION. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.
13. SEDIMENT (MUD AND DIRT) TRANSPORTED ONTO A PUBLIC ROAD, REGARDLESS OF THE SIZE OF THE SITE, SHALL BE CLEANED AS SOON AS POSSIBLE AFTER DISCOVERY.
14. NO CHEMICALS ARE TO BE ADDED TO THE DISCHARGE UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED BY THE STATE. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
15. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER FINAL GRADING OR FINAL LAND DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS SHALL BE ROUGHENED, MULCHED, TACKIFIED, OR STABILIZED WITH TARPS WITHIN FOURTEEN (14) DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN SIXTY (60) DAYS SHALL ALSO BE SEEDED, UNLESS AN ALTERNATIVE STABILIZATION MEASURE IS ACCEPTED AT THE INSPECTOR'S DISCRETION. ALL TEMPORARY CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED.
16. THE GEC PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE STORMWATER ENTERPRISE SHOULD ANY OF THE FOLLOWING OCCUR: GRADING DOES NOT COMMENCE WITHIN TWELVE (12) MONTHS OF THE CITY'S ACCEPTANCE OF THE PLAN, THE CONSTRUCTION SITE IS IDLE FOR TWELVE (12) CONSECUTIVE MONTHS, A CHANGE IN PROPERTY OWNERSHIP OCCURS, THE PLANNED DEVELOPMENT CHANGES, OR ANY OTHER MAJOR MODIFICATIONS ARE PROPOSED AS DEFINED IN THE STORMWATER CONSTRUCTION MANUAL.
17. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY UTILITY EASEMENT OR UTILITY RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE UTILITY OWNER. CITY ACCEPTANCE OF THE GEC PLAN AND CSWMP DOES NOT SATISFY THIS REQUIREMENT. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO EXISTING UTILITY FACILITIES TO ACCOMMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS SHALL BE AT THE APPLICANT'S EXPENSE.
18. APPLICANT REPRESENTS AND WARRANTS THAT THEY HAVE THE LEGAL AUTHORITY TO GRADE AND/OR CONSTRUCT IMPROVEMENTS ON ADJACENT PROPERTY. THE CITY HAS NOT REVIEWED THE DEVELOPER'S AUTHORITY TO MODIFY ADJACENT PROPERTY. AN APPROVED GEC PERMIT DOES NOT PROVIDE APPROVAL FOR THE APPLICANT TO PERFORM WORK ON ADJACENT PROPERTY.
19. NONSTRUCTURAL CONTROL MEASURES TO BE USED WILL BE STREET SWEEPING AROUND THE SITE AS NEEDED.
20. THERE ARE NO NO-BUILD AREAS PRESENT ON THE SITE.
21. THERE ARE NO ASPHALT, CONCRETE BATCH PLANTS, OR MASONRY MIX STATIONS PROPOSED WITH THIS PROJECT.
22. THERE ARE NO PRESERVATION EASEMENTS LOCATED ON THE SITE.

GEC UTILITY NOTE

1. ALL UTILITY INSTALLATIONS WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE COVERED UNDER THIS PLAN. LOCATIONS OF UTILITIES WITHIN THE LIMITS OF DISTURBANCE MAY BE MODIFIED AFTER PLAN APPROVAL AS A FIELD CHANGE. UTILITY INSTALLATIONS RELATED TO THE PRIVATE DEVELOPMENT THAT EXTEND BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE CONSIDERED TO BE PART OF THE LARGER DEVELOPMENT, AND THEREFORE REQUIRE A PLAN MODIFICATION OR SEPARATE PLAN FOR THE ADDITIONAL DISTURBANCE AREA.
2. ALL NON-STRUCTURAL CCMS WILL CONFORM TO THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL WITH SPECIFIC LOCATION AND SCHEDULING NOTATED IN CSWMP.

PROJECT TEAM

OWNER
COLORADO SPRINGS AIRPORT
7770 MILTON E. PROBY PARKWAY, SUITE 550
COLORADO SPRINGS, CO 80916
CONTACT: TROY STOVER
(719) 550-1967

ENGINEER
ENERTIA CONSULTING GROUP, LLC
1515 MARKET STREET
DENVER, CO 80202
CONTACT: JEFF MOHR, PE
(720) 250-8305

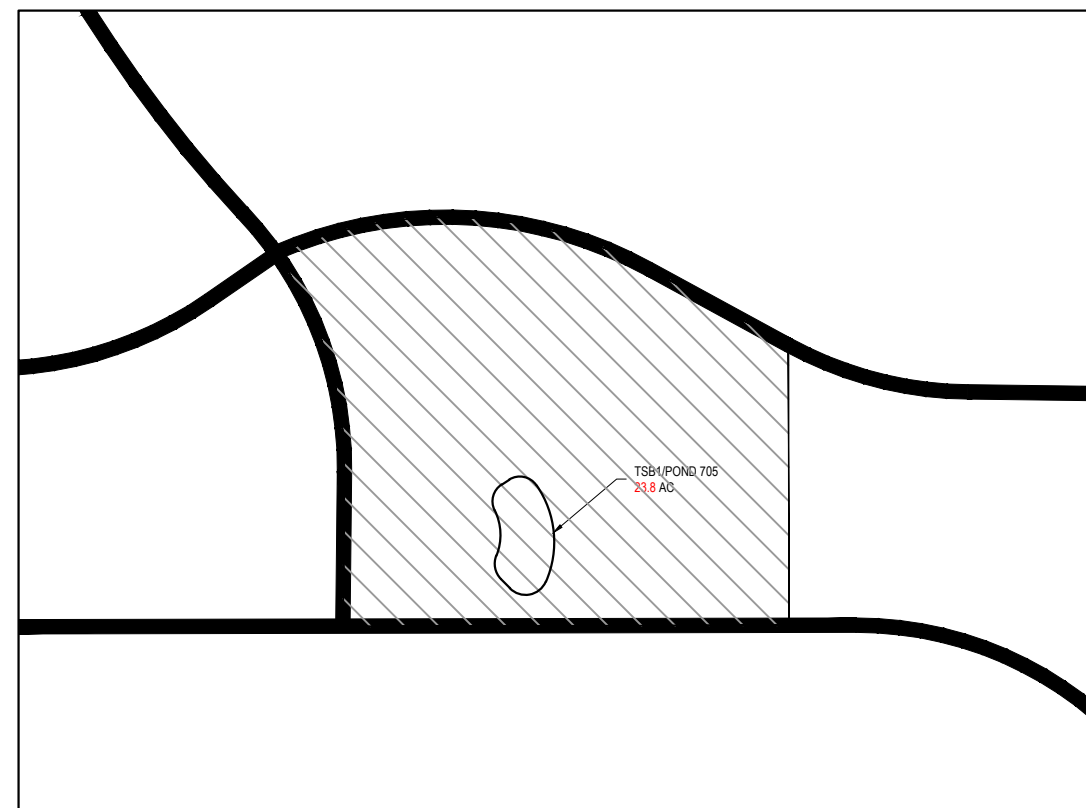
DEVELOPER
URBAN FRONTIER
1515 MARKET STREET
DENVER, CO 80202
CONTACT: GARRETT BAUM
(303) 884-7300

SURVEYOR
POLARIS SURVEYING, INC.
1903 LELARAY STREET, SUITE 102
COLORADO SPRINGS, CO 80909
CONTACT: RANDALL HENCY, PLS
(719) 448-0844

SHEET INDEX


SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	DETAILED GRADING PLAN (1)
3	DETAILED GRADING PLAN (2)
4	DETAILED GRADING PLAN (3)
5	DETAILED GRADING PLAN (4)
6	INITIAL PHASE (1)
7	INITIAL PHASE (2)
8	INITIAL PHASE (3)
9	INITIAL PHASE (4)
10	INTERIM PHASE (1)
11	INTERIM PHASE (2)
12	INTERIM PHASE (3)
13	INTERIM PHASE (4)
14	FINAL PHASE (1)
15	FINAL PHASE (2)
16	FINAL PHASE (3)
17	FINAL PHASE (4)
18	GEC DETAILS (1)
19	GEC DETAILS (2)
20	GEC DETAILS (3)

SEDIMENT BASIN KEY MAP




GRADING AND EROSION CONTROL (GEC) COST ESTIMATE

GRADINF AND EROSION CONTROL COST ESTIMATE WILL BE INCLUDED FOLLOWING FIRST SUBMITTAL AND REVIEW.



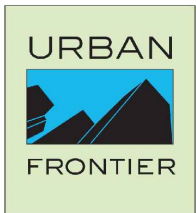
FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG**
CALL 811
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG



AMENDMENT

DATE

NO.



COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO

COVER SHEET

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
1"

DATE: OCTOBER 28, 2022
SHEET

1 OF 17

SEE SHEET 5
DETAILED GRADING PLAN (3)

FILING 1F
LOT 7

PR 10' GRAVEL TRAIL

PR 16' GRAVEL ACCESS ROAD

PR 6' CONCRETE SIDEWALK

SDMH-2.2 (5' Ø)

SDMH-1.1 (CB-1.1) (6' Ø)

SDMH-1.3 (6' Ø)

SWALE 9

SWALE 11

SWALE 12

PEAK INNOVATION PARKWAY (EX)

FILING 1E
LOT 4

POWERS BLVD (EX)

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MILTON E PROBY PKWY

INTEGRATION LOOP

GRINWELL BLVD

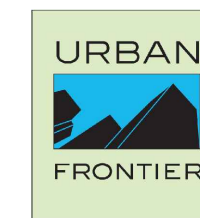
INTEGRATION LOOP

PEAK-INNOVATION PARKWAY

INTEGRATION LOOP

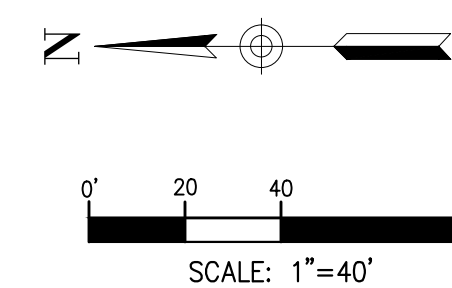
S POWERS BLVD

1. ALL TYPE C & D AREA INLETS ARE TO INCLUDE A 2' WIDE CONCRETE APRON ON ALL SIDES AND AT LEAST 3' OF TYPE VL RIPRAP OUTSIDE OF THE APRON.

[illegible]


COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO

DETAILED GRADING PLAN (1)



FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG**
CALL 811
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

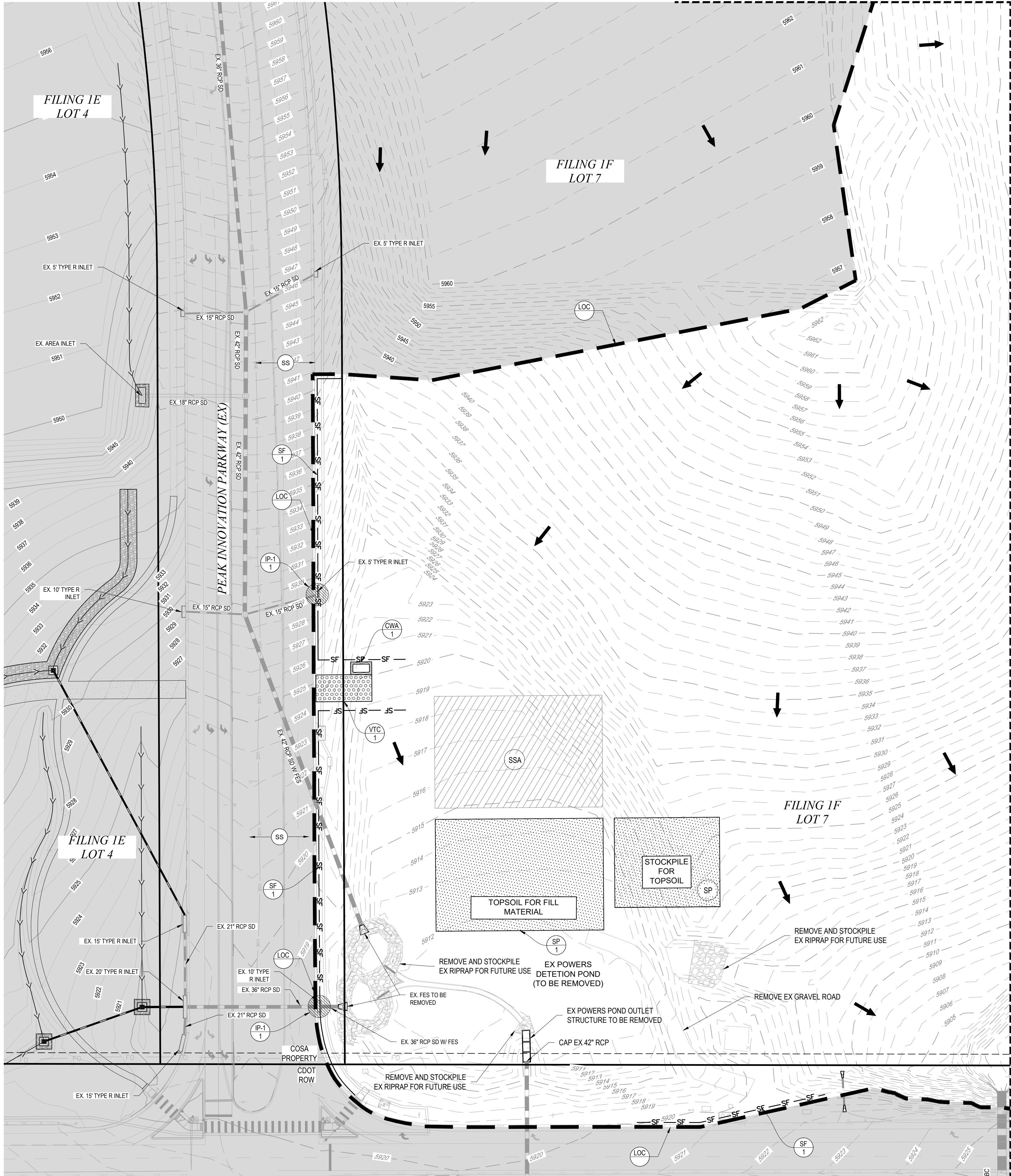


VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0  1"

DATE OCTOBER 28, 2022

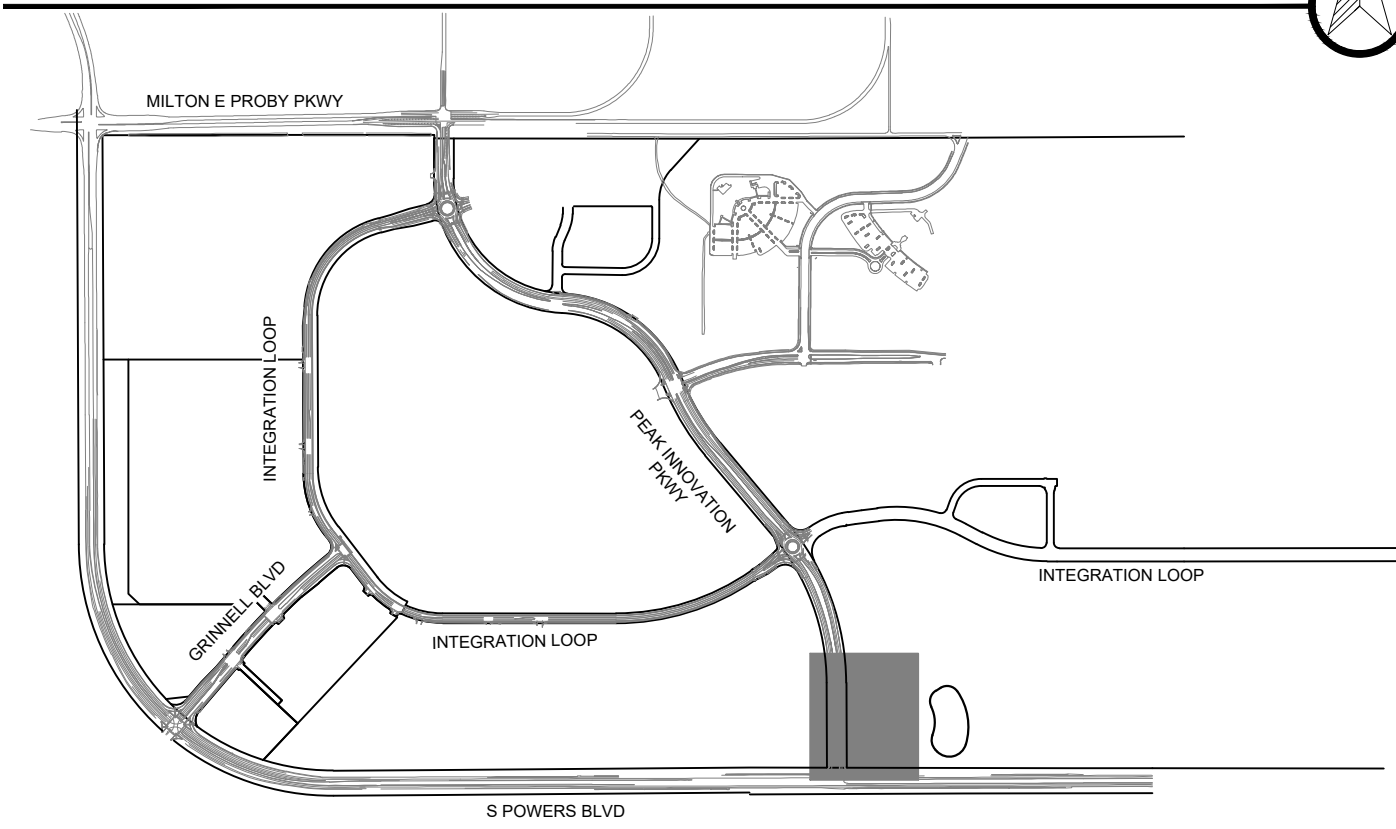
SHEET

SEE SHEET 9
INITIAL PHASE (3)



INITIAL PHASE (2)
SEE SHEET 8

KEY MAP



GENERAL LEGEND

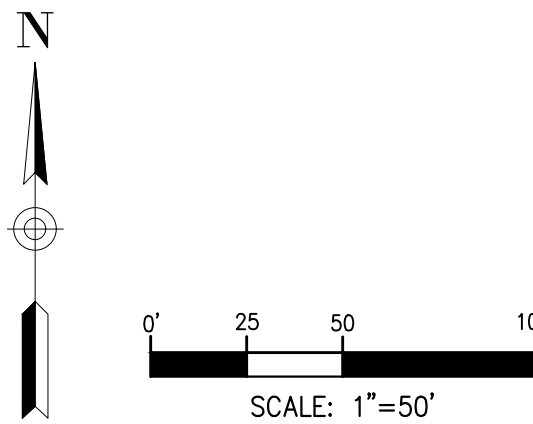
- LIMIT OF CONSTRUCTION / DISTURBANCE
- PROPERTY BOUNDARY
- FLOW DIRECTION ARROW
- CCM ID PHASE ID
1=INITIAL
2=INTERIM
3=FINAL

CCM LEGEND - INITIAL PHASE

SILT FENCE	SF	SF
SEDIMENT CONTROL LOGS	SCL	SCL
VEHICLE TRACKING CONTROL	VTC	VTC
CONCRETE WASHOUT AREA	CWA	CWA
INLET PROTECTION	IP	IP
STOCKPILE MANAGEMENT WITH PROTECTION	SP	SP
STABILIZED STAGING AREA	SSA	SSA
STREET SWEEPING & VACUUMING	SS	SS

INITIAL PHASE NOTES

- THE INITIAL PHASE SHALL GENERALLY CONSIST OF INSTALLATION OF THE INITIAL PROJECT CCMs, MOBILIZATION AND SET UP OF THE CONSTRUCTION SITE, CLEARING & GRUBBING, MINOR GRADING, AND MINOR DEMOLITION. IN ADDITION, IT'S ANTICIPATED THAT THE TEMPORARY SEDIMENT BASINS WILL BE CONSTRUCTED WITH THE INITIAL PHASE.
- TEMPORARY SEDIMENT BASINS: TEMPORARY SEDIMENT BASINS 1SB1 IS A NON-STANDARD AND SHALL BE CONSTRUCTED AS A ROUGH OUT OF POND 705 THE SPILLWAY SHALL BE CONSTRUCTED PER COSA INTEGRATION LOOP PHASE 4 PCM PLANS AND THE DRAIN PIPE PER THE COS DETAIL.
- THE INITIAL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THIS PLAN AS WELL AS CSWMP REPORT.
- ALL CCMs SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH COLORADO SPRINGS AND MILE HIGH FLOOD DISTRICT STANDARDS AND SPECIFICATIONS.
- AT NO TIME DURING THE DEVELOPMENT/CONSTRUCTION OF SITE SHALL RUNOFF BE ALLOWED TO ENTER THE POST-CONSTRUCTION PERMANENT CCMs WITHOUT FIRST HAVING BEEN TREATED IN A SEDIMENT BASIN. ALLOWING RUNOFF FROM THE SITE DURING CONSTRUCTION MAY RESULT IN THE POST-CONSTRUCTION PERMANENT CCMs HAVING TO BE RECONSTRUCTED IN ITS ENTIRETY.
- TEMPORARY SEEDING SHALL BE USED TO STABILIZE ANY DISTURBED AREA THAT WILL BE INACTIVE FOR AN EXTENDED PERIOD OF TIME (TYPICALLY 30 DAYS OR LONGER).
- ADD DEWATERING CCM IN AREAS AS NEEDED.
- ALL PROPOSED STORM INFRASTRUCTURE IS PRIVATE.
- SEDIMENT CONTROL LOGS CAN BE USED IN PLACE OF SILT FENCE AT CONTRACTORS DISCRETION.
- STREET SWEEPING TO BE CONDUCTED WHEN SEDIMENT ACCUMULATION IS NOTICEABLE ON ADJACENT ROADWAYS.

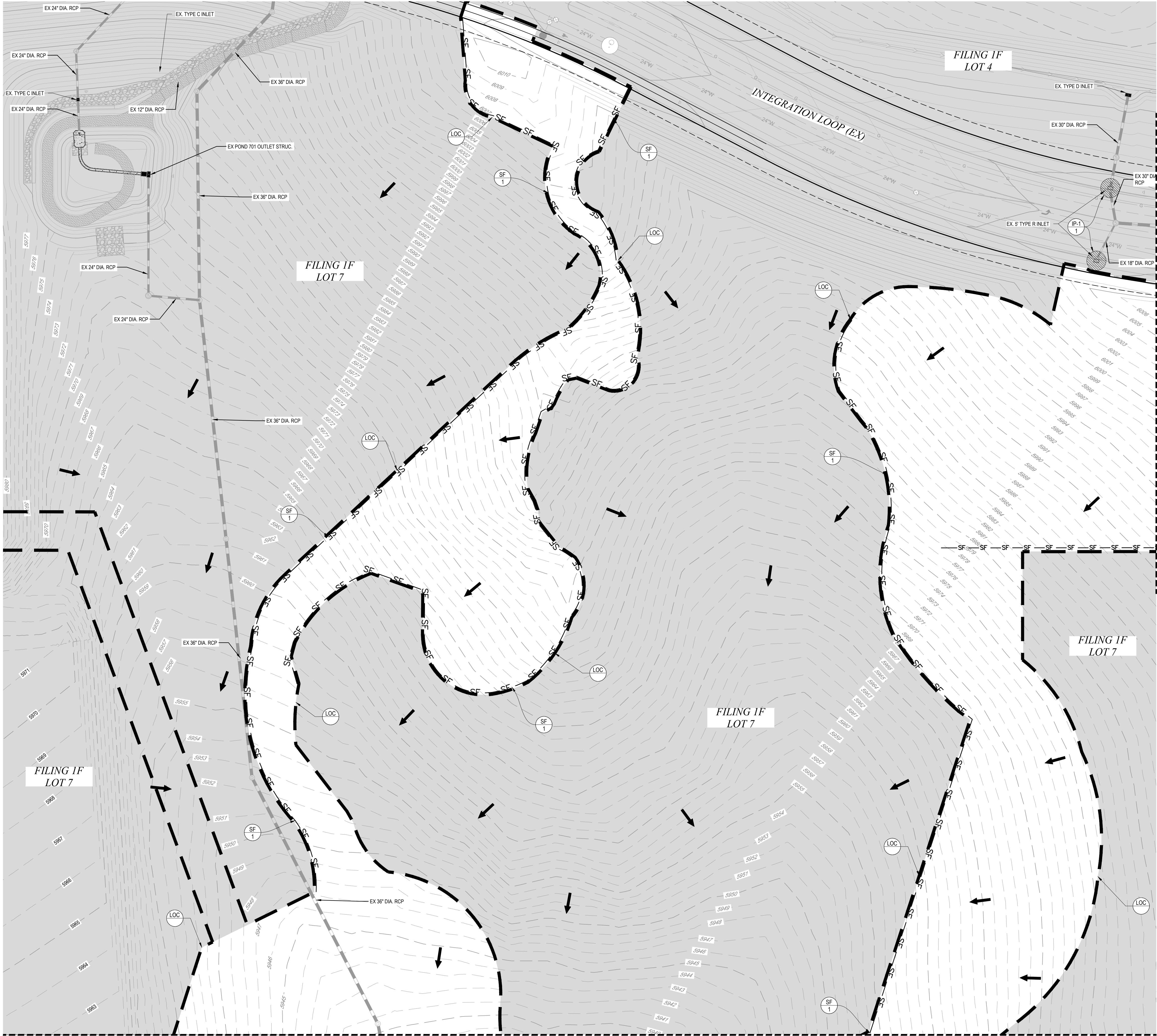


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CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

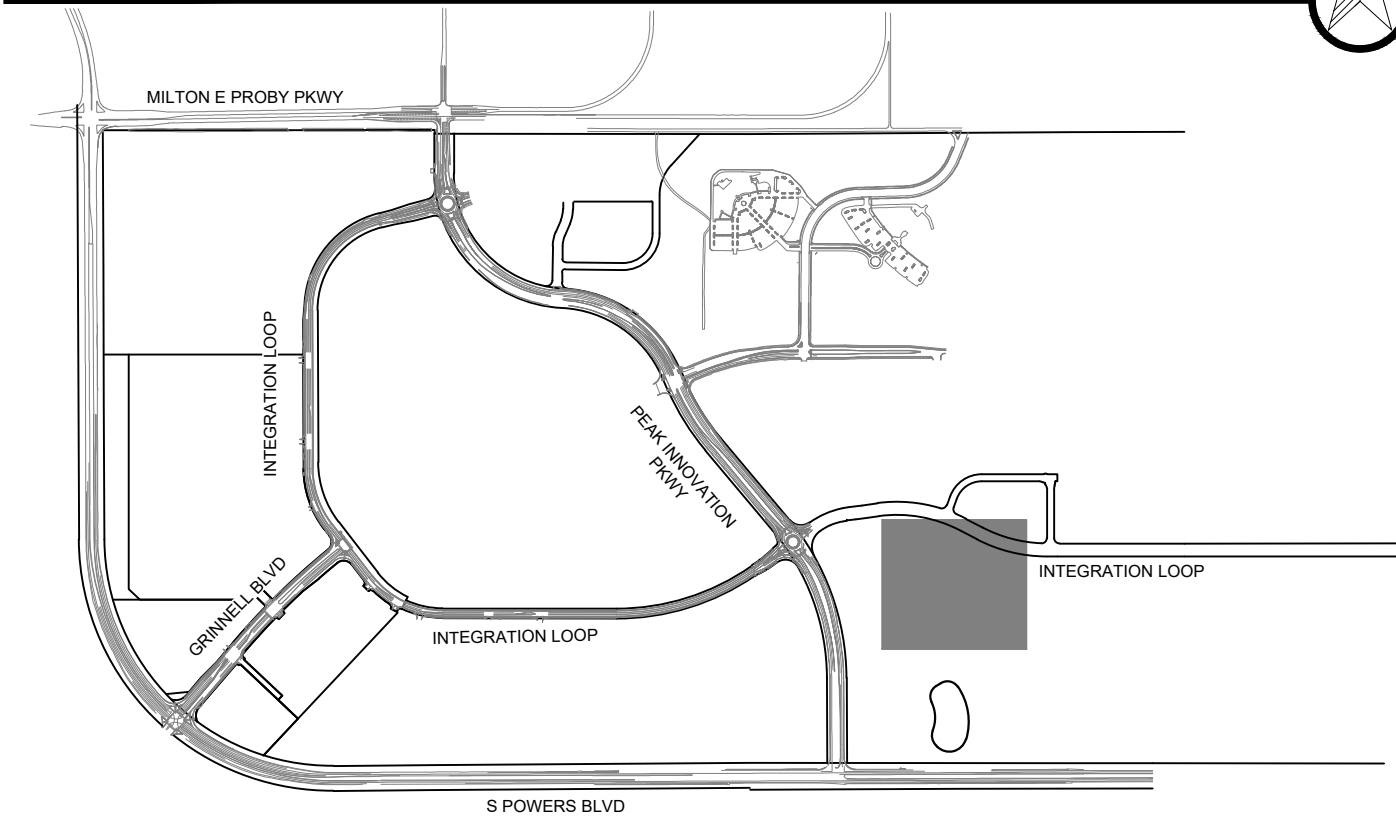


COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO
INITIAL PHASE (1)

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING: 1"
DATE: OCTOBER 28, 2022
SHEET
7 OF 17



KEY MAP



GENERAL LEGEND

- LIMIT OF CONSTRUCTION / DISTURBANCE
- PROPERTY BOUNDARY
- FLOW DIRECTION ARROW
- CCM ID: 1=INITIAL, 2=INTERIM, 3=FINAL
- PHASE ID: 1=INITIAL, 2=INTERIM, 3=FINAL

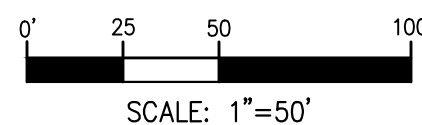
CCM LEGEND - INITIAL PHASE

SILT FENCE	SF	SF
SEDIMENT CONTROL LOGS	SCL	SCL
VEHICLE TRACKING CONTROL	VTC	VTC
CONCRETE WASHOUT AREA	CWA	CWA
INLET PROTECTION	IP	IP
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STABILIZED STAGING AREA	SSA	SSA
STREET SWEEPING & VACUUMING	SS	SS

INITIAL PHASE NOTES

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N

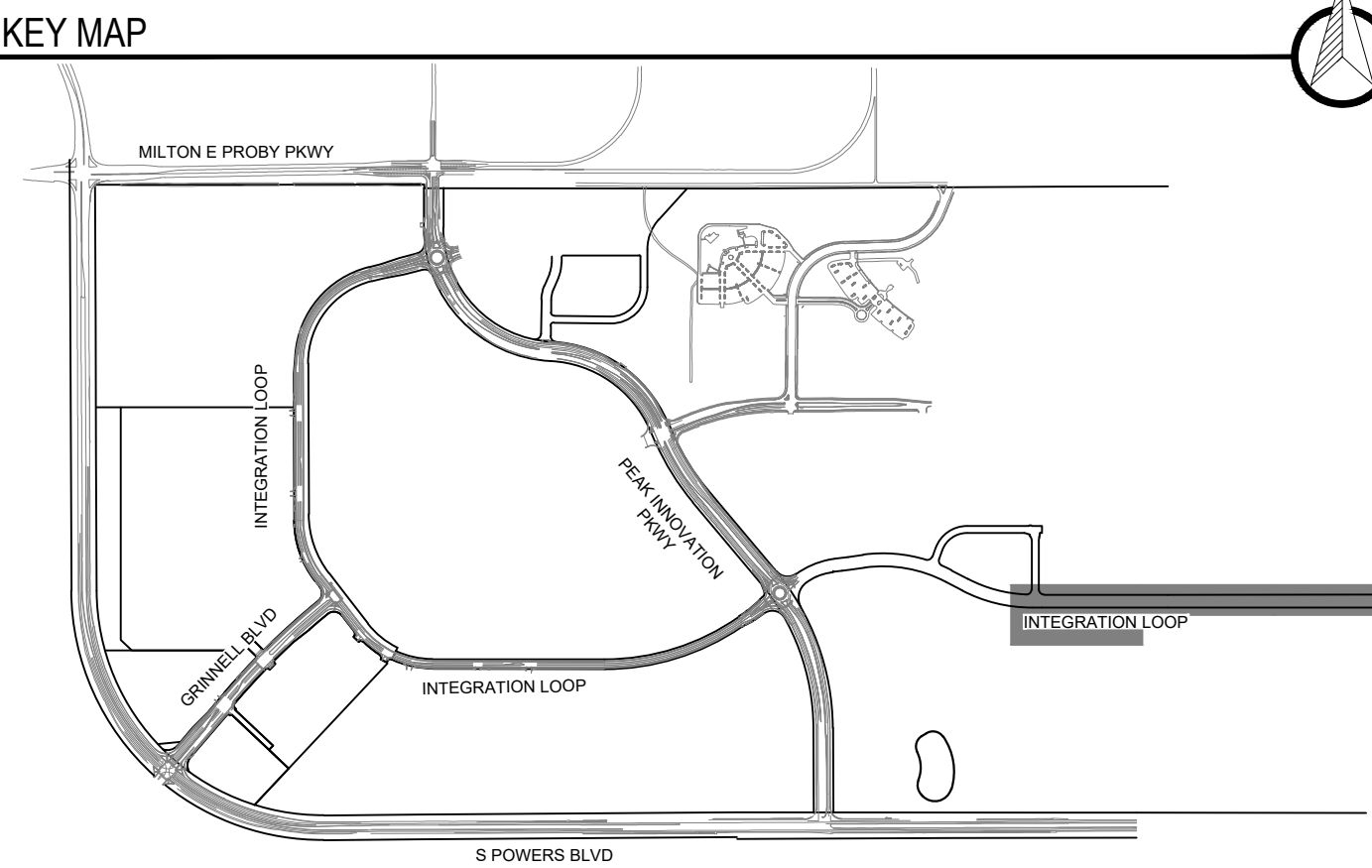
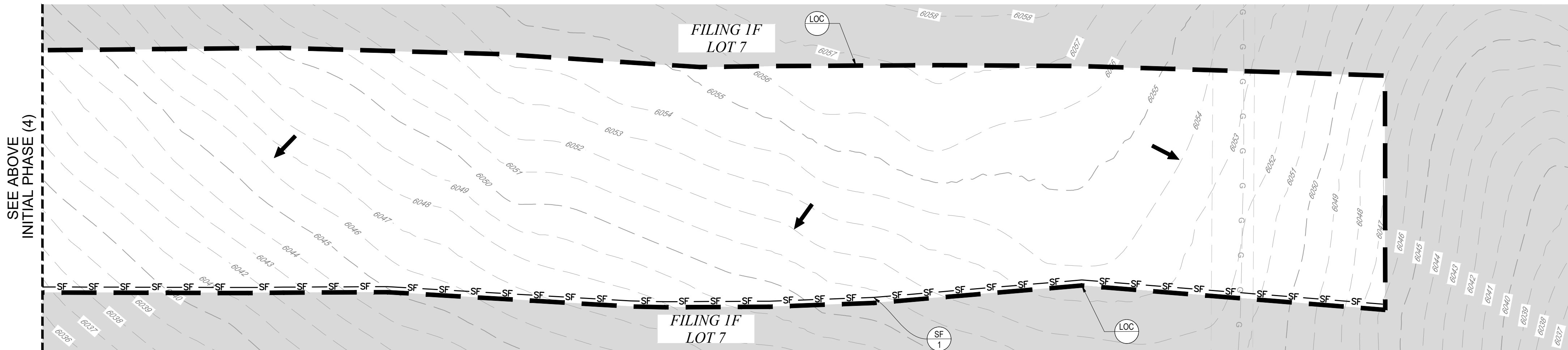
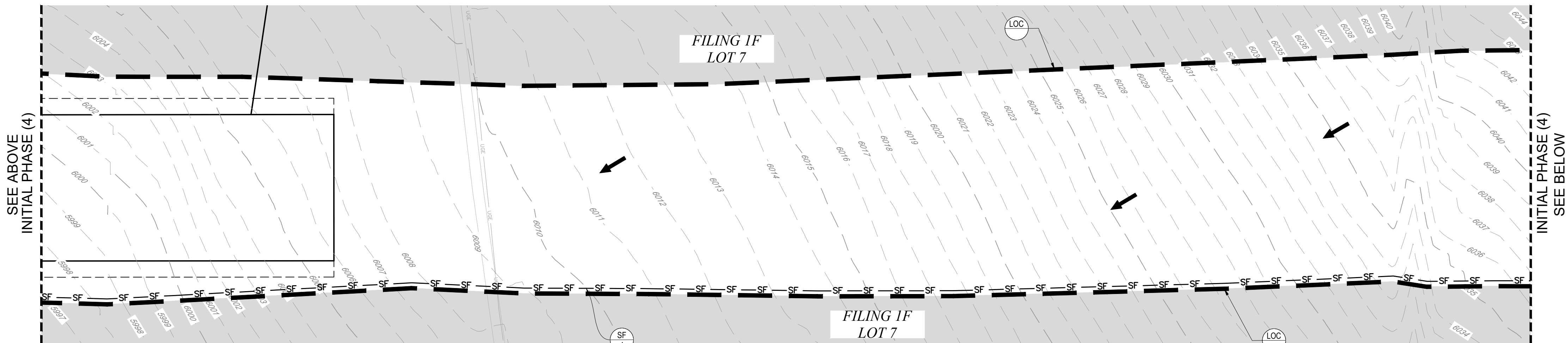
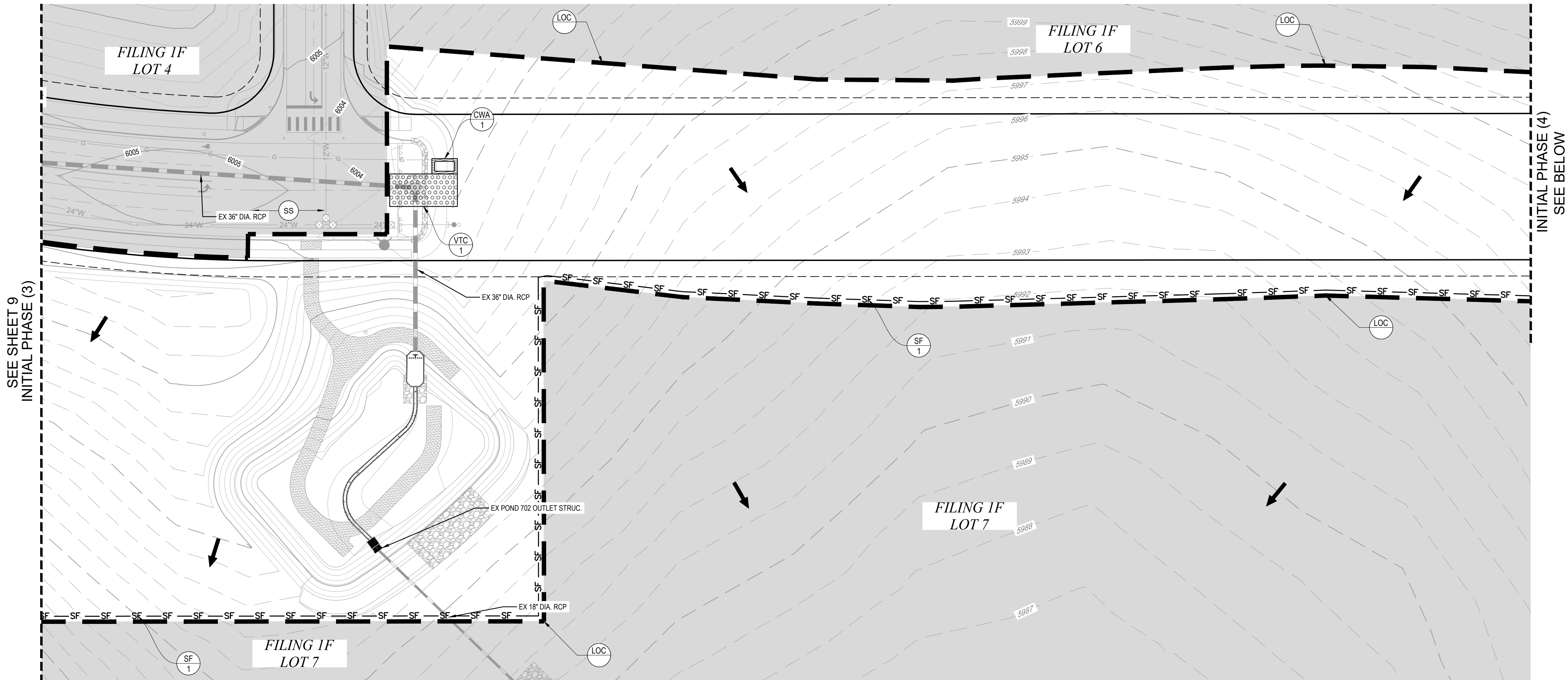


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COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO
INITIAL PHASE (3)

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING: 1"
DATE: OCTOBER 28, 2022
SHEET
9 OF 17



GENERAL LEGEND

- LIMIT OF CONSTRUCTION / DISTURBANCE
- PROPERTY BOUNDARY
- FLOW DIRECTION ARROW
- CCM # PHASE ID
1=INITIAL
2=INTERIM
3=FINAL

CCM LEGEND - INITIAL PHASE

SILT FENCE	SF	SF
SEDIMENT CONTROL LOGS	SCL	SCL
VEHICLE TRACKING CONTROL	VTC	VTC
CONCRETE WASHOUT AREA	CWA	CWA
INLET PROTECTION	IP	IP
STOCKPILE MANAGEMENT WITH PROTECTION	SP	SP
STABILIZED STAGING AREA	SSA	SSA
STREET SWEEPING & VACUUMING	SS	SS

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 8. ALL PROPOSED STORM INFRASTRUCTURE IS PRIVATE.
 9. SEDIMENT CONTROL LOGS CAN BE USED IN PLACE OF SILT FENCE AT CONTRACTORS DISCRETION.
 10. STREET SWEEPING TO BE CONDUCTED WHEN SEDIMENT ACCUMULATION IS NOTICEABLE ON ADJACENT ROADWAYS.

N

0' 25' 50' 100'

SCALE: 1"=50'

811

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VERIFY SCALE
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ORIGINAL DRAWING: 1"

DATE: OCTOBER 28, 2022
SHEET

AMENDMENT

NO.	DATE								
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URBAN FRONTIER

COLORADO SPRINGS AIRPORT

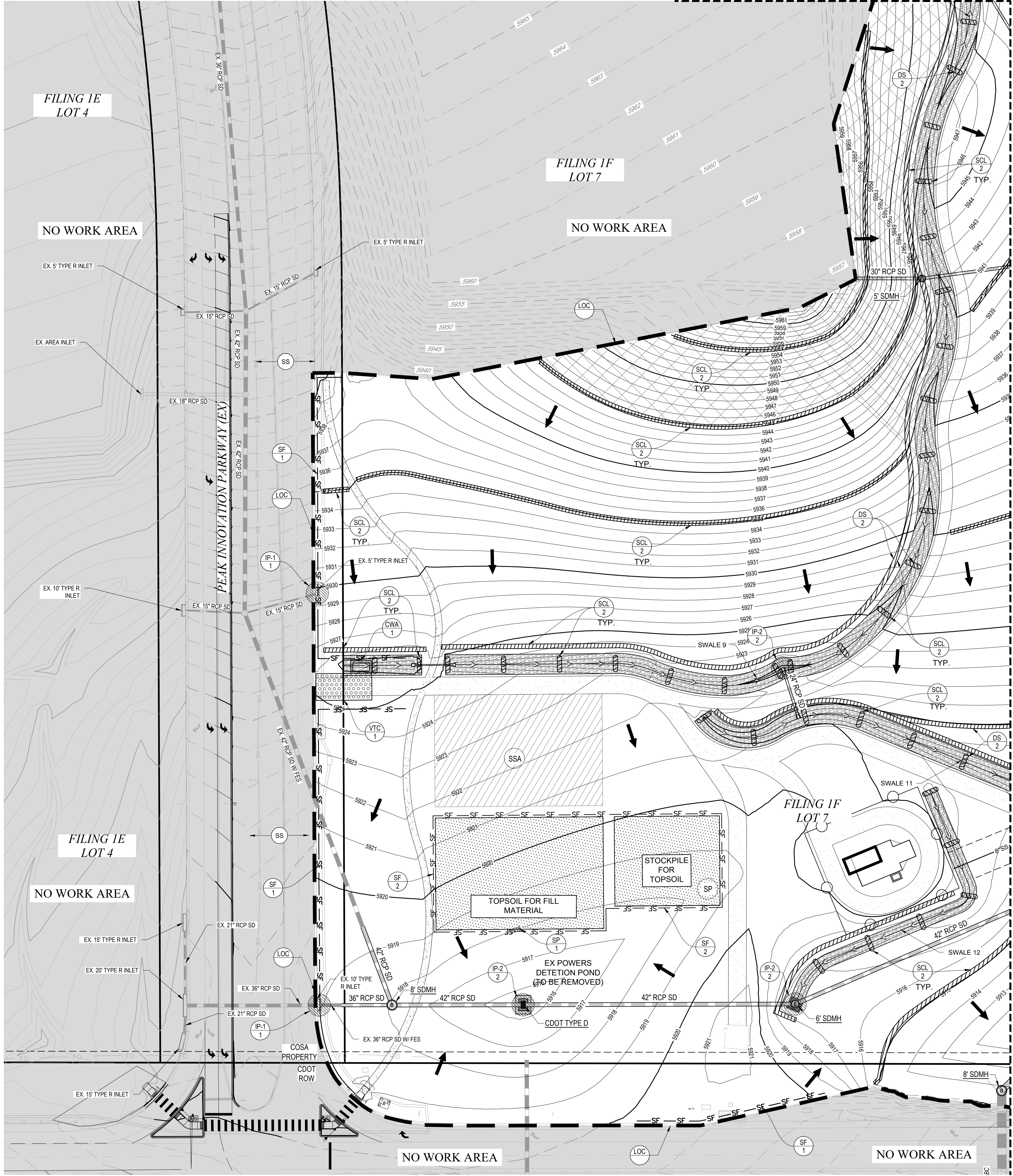
ENERTIA CONSULTING GROUP

COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO

INITIAL PHASE (4)

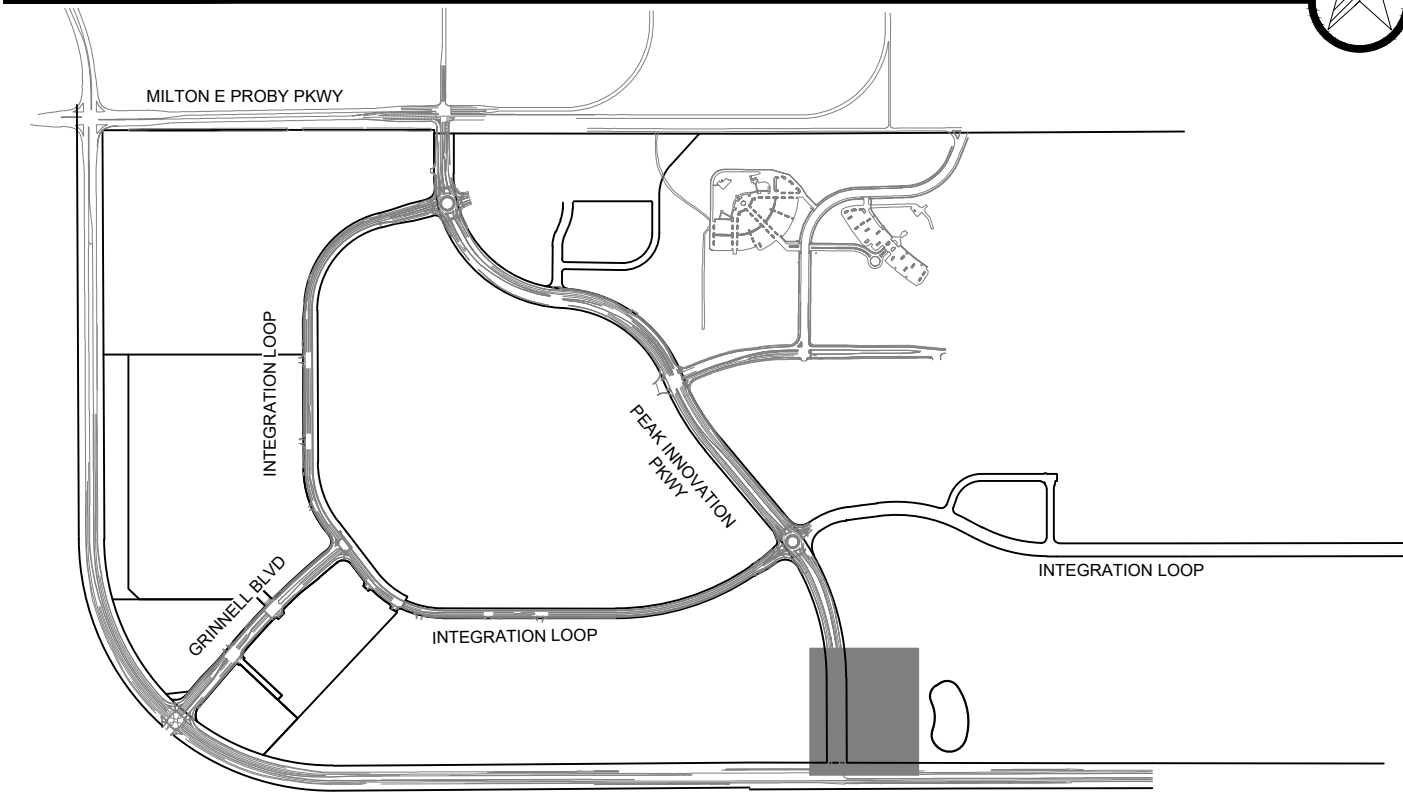
10 OF 17

SEE SHEET 13
INTERIM PHASE (3)



INTERIM PHASE (2)
SEE SHEET 12

KEY MAP



GENERAL LEGEND

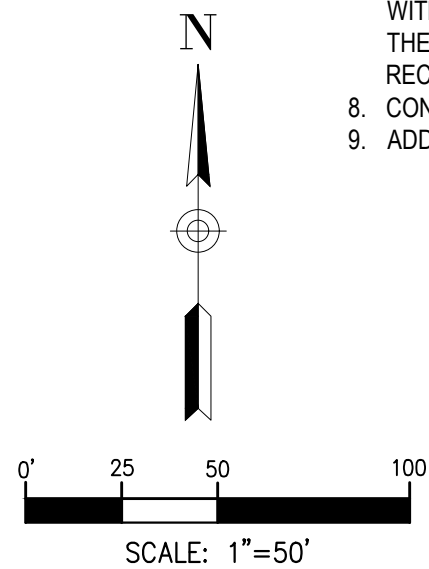
- LIMIT OF CONSTRUCTION / DISTURBANCE
- PROPERTY BOUNDARY
- FLOW DIRECTION ARROW
- CCM # PHASE ID: 1=INITIAL 2=INTERIM 3=FINAL

CCM LEGEND - INTERIM PHASE

SILT FENCE	SF	SF
SEDIMENT CONTROL LOGS	SCL	SCL
VEHICLE TRACKING CONTROL	VTC	VTC
CONCRETE WASHOUT AREA	CWA	CWA
INLET PROTECTION	IP	IP
STOCKPILE MANAGEMENT WITH PROTECTION	SP	SP
STABILIZED STAGING AREA	SSA	SSA
STREET SWEEPING & VACUUMING	SS	SS
TEMPORARY SEDIMENT BASIN	TSB	TSB
DRAINAGE SWALE	DS	DS
EROSION CONTROL BLANKET	ECB	ECB
SURFACE ROUGHENING	SR	SR
ROCK SOCK	RS	RS
INITIAL CCM TO BE REMOVED AT THE INTERIM PHASE	CCM	CCM


INTERIM PHASE NOTES

- THE INTERIM PHASE SHALL GENERALLY CONSIST OF CONSTRUCTION OF THE UTILITIES AND ROADWAYS. THE INITIAL CCMs SHALL REMAIN THROUGH THE INTERIM PHASE (UNLESS OTHERWISE NOTED) AND ADDITIONAL CCM SHALL BE INSTALLED FOR THE INTERIM PHASE AS SHOWN ON THE PLAN.
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- ADD DEWATERING CCM IN AREAS AS NEEDED.





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DATE

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COLORADO SPRINGS AIRPORT

INTEGRATION PHASE 4

GRADING AND EROSION CONTROL PLAN INITIAL

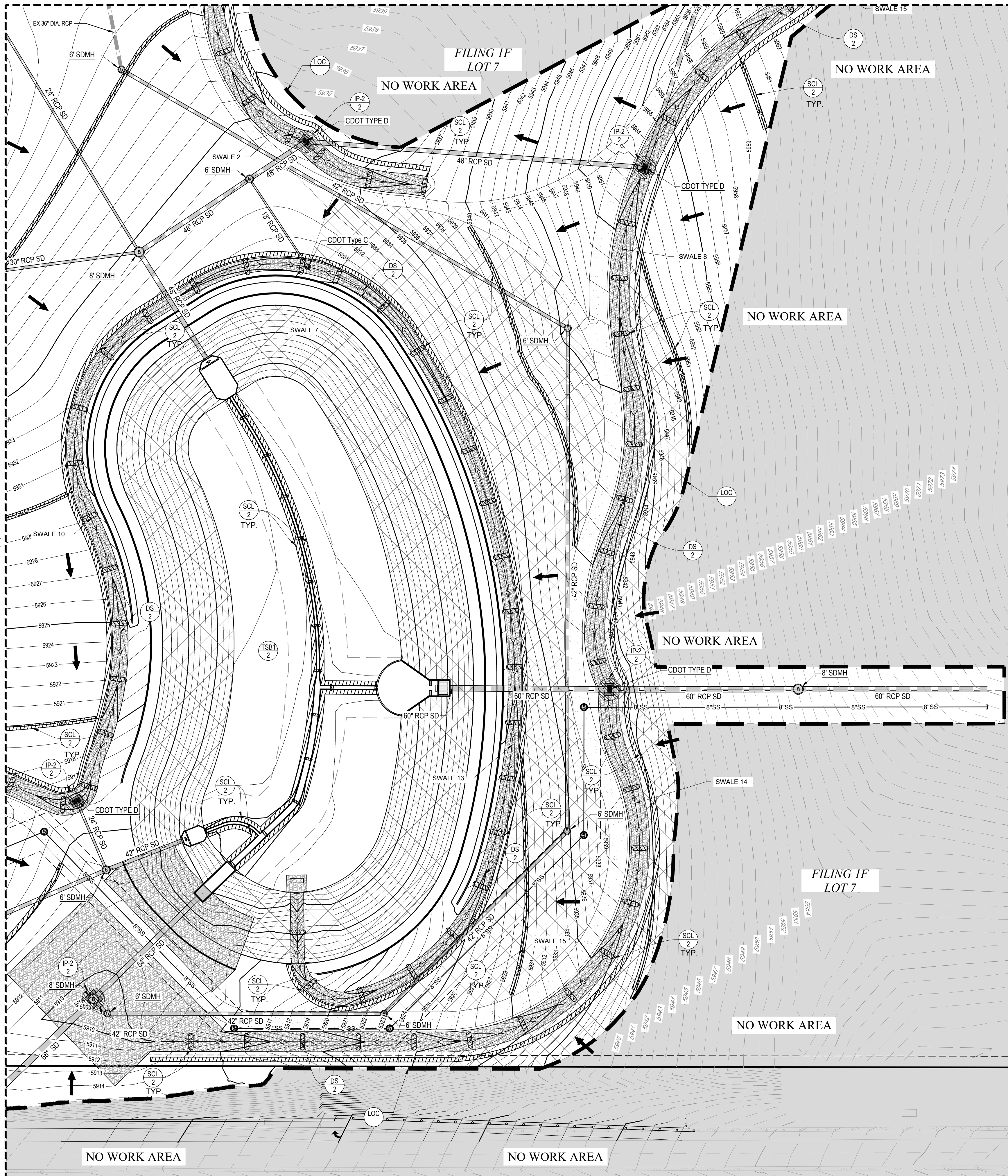
& INTERIM PHASE

COLORADO SPRINGS, COLORADO

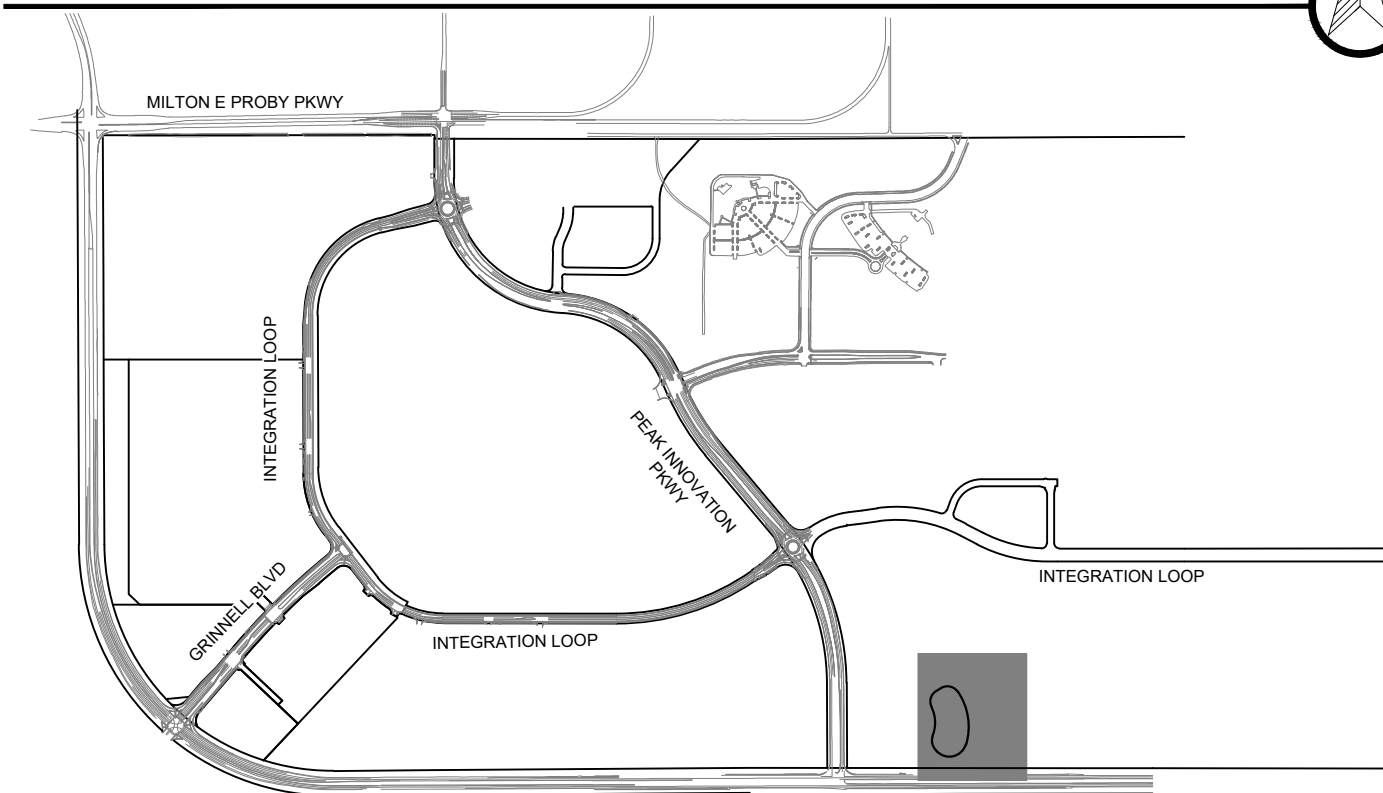
INTERIM PHASE (1)

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
DATE: OCTOBER 28, 2022
SHEET

SEE SHEET 13
INTERIM PHASE (3)



KEY MAP



GENERAL LEGEND

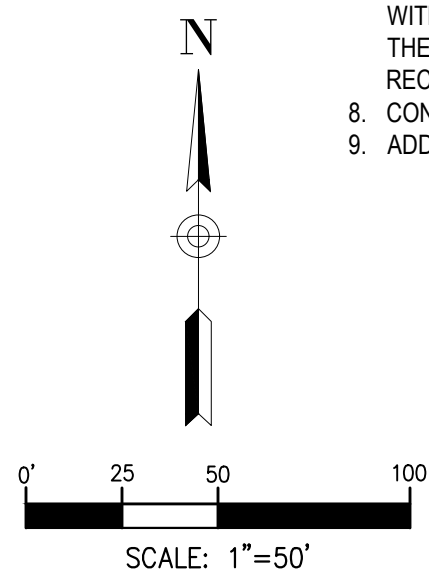
- LIMIT OF CONSTRUCTION / DISTURBANCE
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- CCM # PHASE ID: 1=INITIAL, 2=INTERIM, 3=FINAL

CCM LEGEND - INTERIM PHASE

SILT FENCE	SF	SF
SEDIMENT CONTROL LOGS	SCL	SCL
VEHICLE TRACKING CONTROL	VTC	VTC
CONCRETE WASHOUT AREA	CWA	CWA
INLET PROTECTION	IP	IP
STOCKPILE MANAGEMENT WITH PROTECTION	SP	SP
STABILIZED STAGING AREA	SSA	SSA
STREET SWEEPING & VACUUMING	SS	SS
TEMPORARY SEDIMENT BASIN	TSB	TSB
DRAINAGE SWALE	DS	DS
EROSION CONTROL BLANKET	ECB	ECB
SURFACE ROUGHENING	SR	SR
ROCK SOCK	RS	RS
INITIAL CCM TO BE REMOVED AT THE INTERIM PHASE		


INTERIM PHASE NOTES

- THE INTERIM PHASE SHALL GENERALLY CONSIST OF CONSTRUCTION OF THE UTILITIES AND ROADWAYS. THE INITIAL CCMs SHALL REMAIN THROUGH THE INTERIM PHASE (UNLESS OTHERWISE NOTED) AND ADDITIONAL CCM SHALL BE INSTALLED FOR THE INTERIM PHASE AS SHOWN ON THE PLAN.
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- ALL INTERIM CCMs, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED PRIOR TO ISSUANCE OF ANY CURB AND GUTTER PERMITS UNLESS OTHERWISE ALLOWED BY THE CITY.
- ALL INTERIM CCMs, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED WITHIN 14 DAYS IF THE AREAS WILL REMAIN UNDISTURBED FOR A PERIOD GREATER THAN 30 DAYS.
- ALL PROPOSED SLOPES ON THIS PLAN HAVE A MAXIMUM SLOPE OF 4:1. ANY SLOPES BETWEEN 3:1 AND 6:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR FLEXIBLE GROWTH MEDIUM. EROSION CONTROL BLANKETS ARE TO BE PLACED IMMEDIATELY AFTER FINISHED GRADE IS ACHIEVED.
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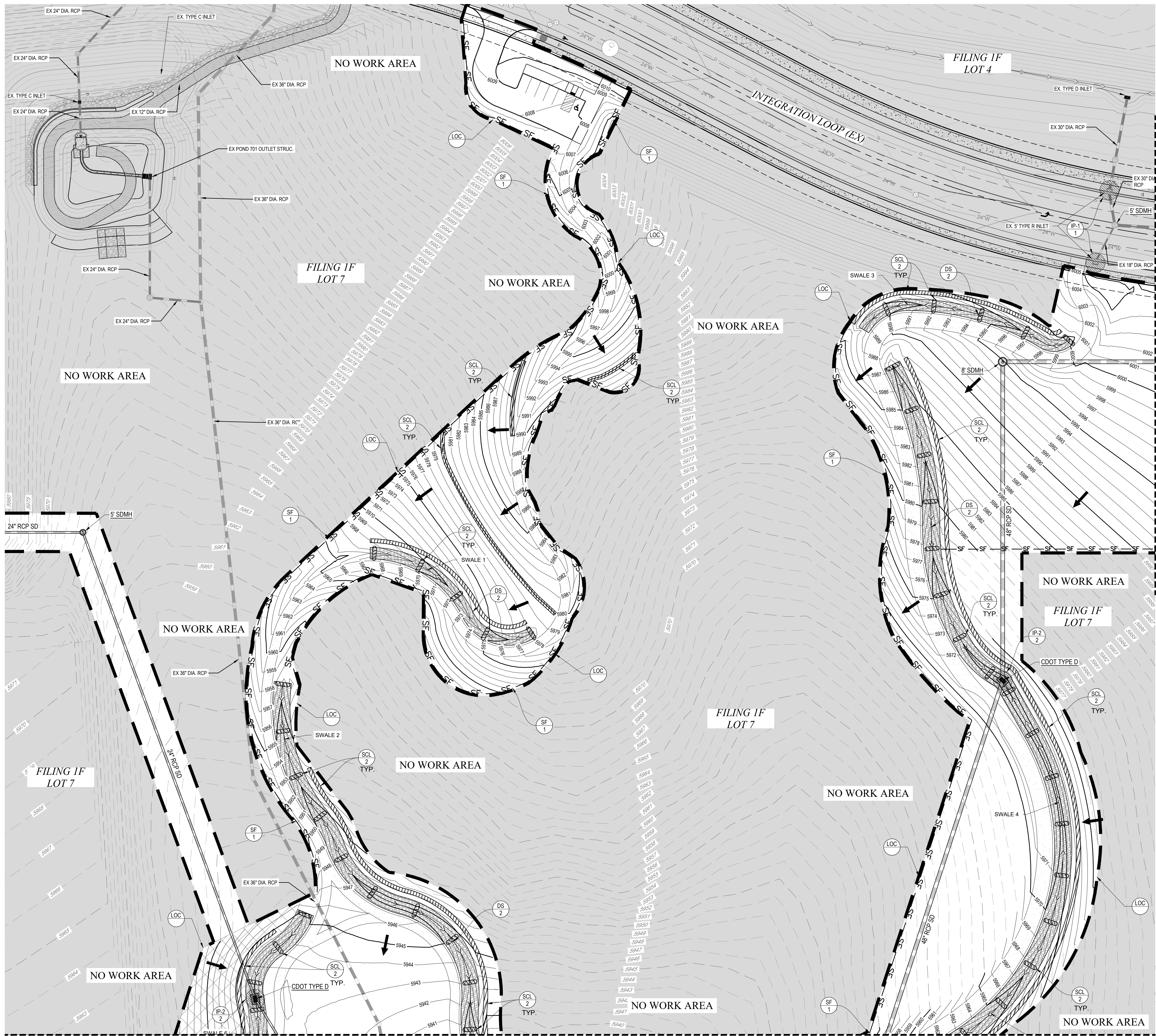
COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO

INTERIM PHASE (2)

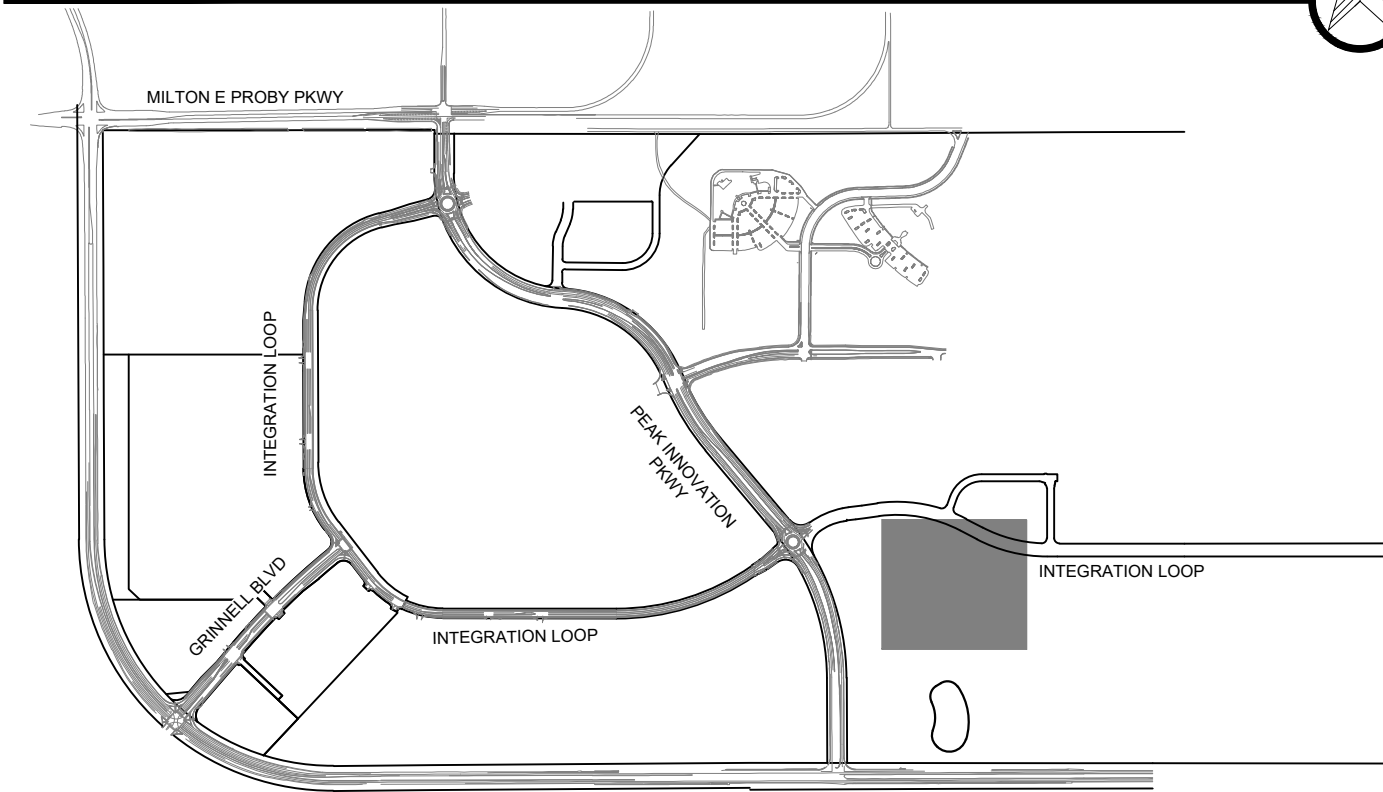
VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING: 1"

DATE: OCTOBER 28, 2022
SHEET

12 OF 17



KEY MAP



GENERAL LEGEND

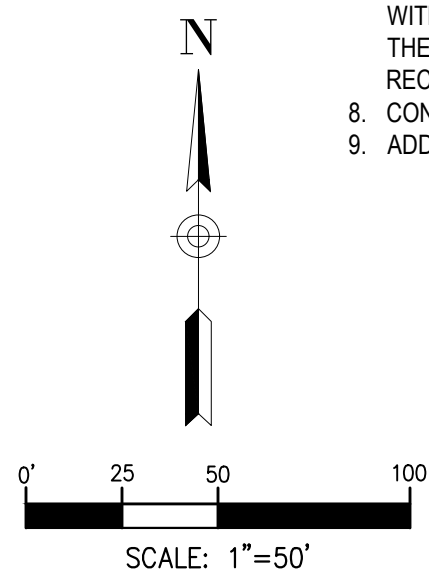
	LIMIT OF CONSTRUCTION / DISTURBANCE
	PROPERTY BOUNDARY
	FLOW DIRECTION ARROW
	CCM ID #
	PHASE ID: 1=INITIAL 2=INTERIM 3=FINAL

CCM LEGEND - INTERIM PHASE

SILT FENCE	SF	SF
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TEMPORARY SEDIMENT BASIN	TSB	TSB
DRAINAGE SWALE	DS	DS
EROSION CONTROL BLANKET	ECB	ECB
SURFACE ROUGHENING	SR	SR
ROCK SOCK	RS	RS
INITIAL CCM TO BE REMOVED AT THE INTERIM PHASE		

INTERIM PHASE NOTES

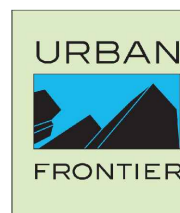
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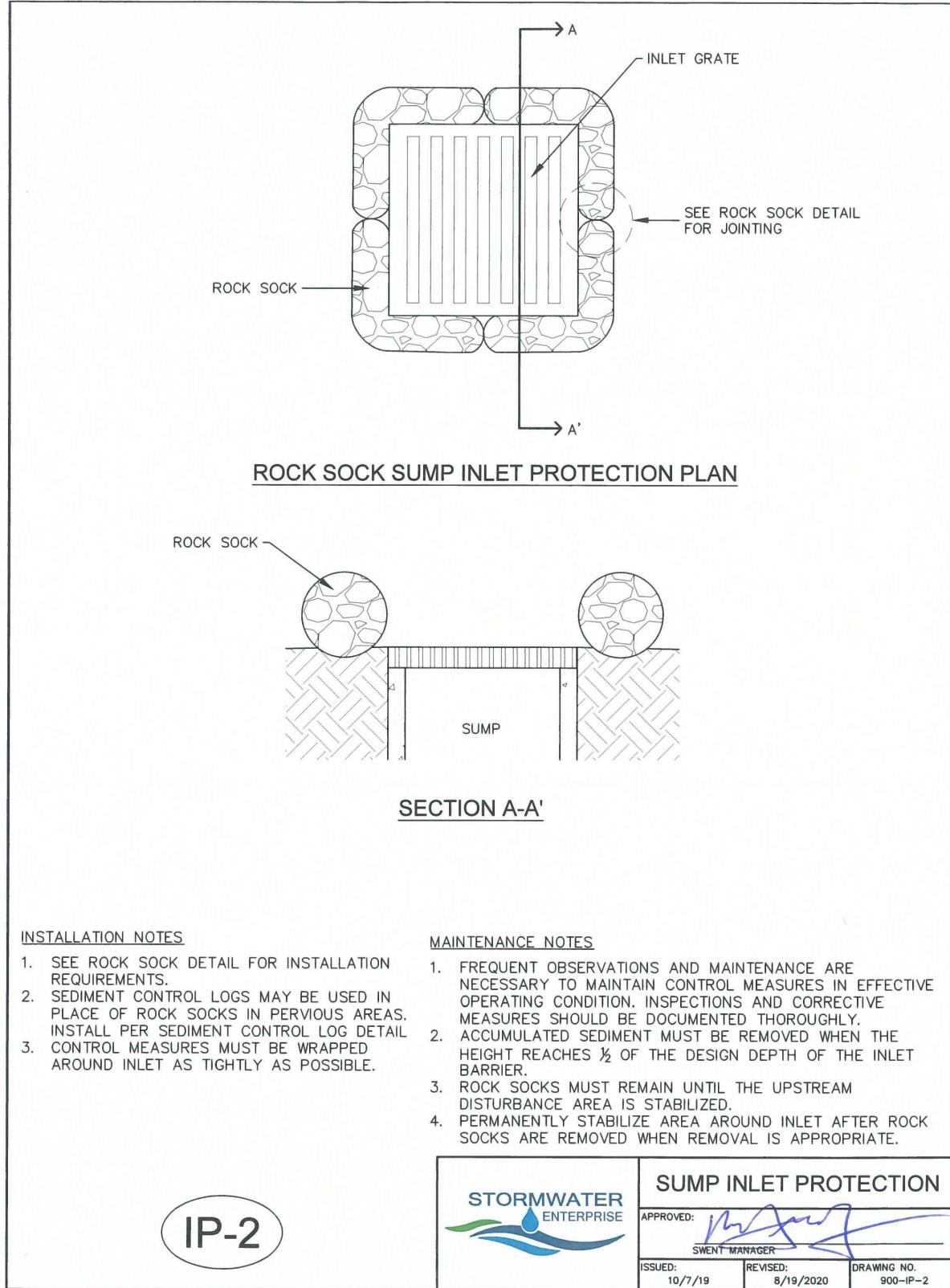
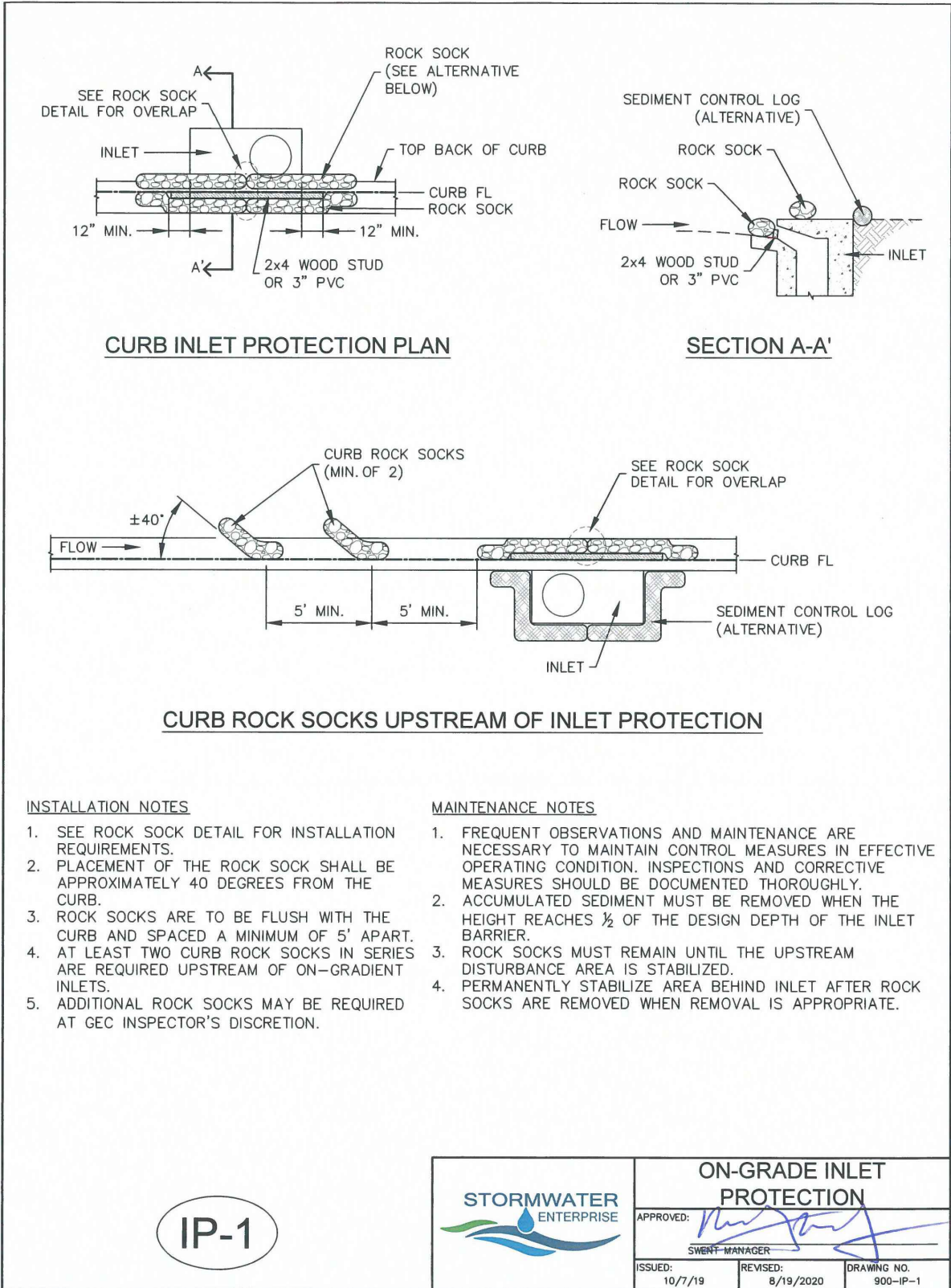
AMENDMENT

NO. DATE



COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO
INTERIM PHASE (3)

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING: 1"
DATE: OCTOBER 28, 2022
SHEET



Street Sweeping and Vacuuming (SS)

SM-7

Description

Street sweeping and vacuuming remove sediment that has been tracked onto roadways to reduce sediment transport into storm drain systems or a surface waterway.

Appropriate Uses

Use this practice at construction sites where vehicles may track sediment offsite onto paved roadways.

Design and Installation

Street sweeping or vacuuming should be conducted when there is noticeable sediment accumulation on roadways adjacent to the construction site. Typically, this will be concentrated at the entrance/exit to the construction site. Well-maintained stabilized construction entrances, vehicle tracking controls and tire wash facilities can help reduce the necessary frequency of street sweeping and vacuuming.

On smaller construction sites, street sweeping can be conducted manually using a shovel and broom. Never wash accumulated sediment on roadways into storm drains.

Maintenance and Removal

- Inspect paved roads around the perimeter of the construction site on a daily basis and more frequently, as needed. Remove accumulated sediment, as needed.
- Following street sweeping, check inlet protection that may have been displaced during street sweeping.
- Inspect area to be swept for materials that may be hazardous prior to beginning sweeping operations.

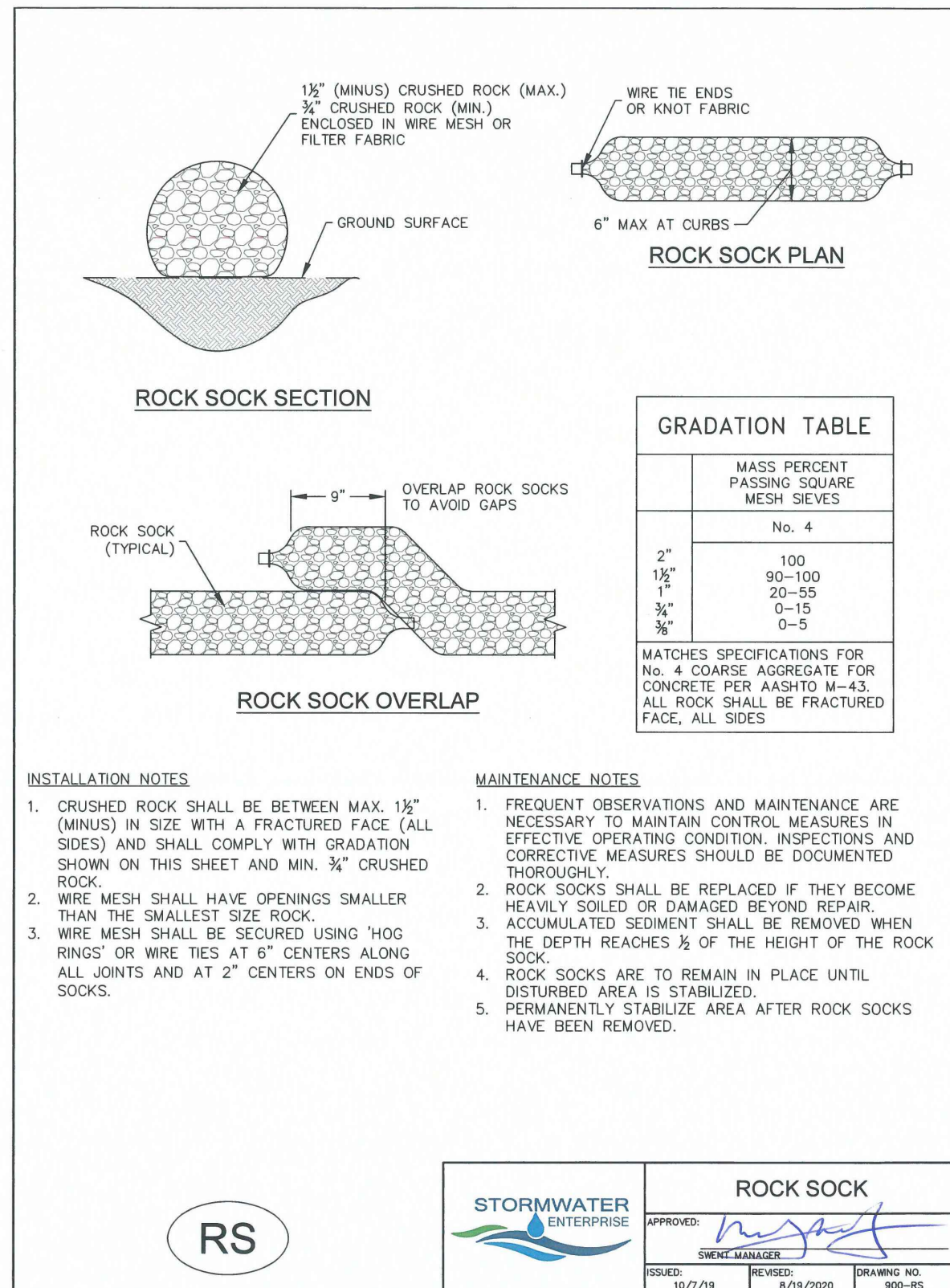


Photograph SS-1. A street sweeper removes sediment and potential pollutants along the curb line at a construction site. Photo courtesy of Tom Gore.

Street Sweeping/ Vacuuming	
Functions	
Erosion Control	No
Sediment Control	Yes
Site/Material Management	Yes

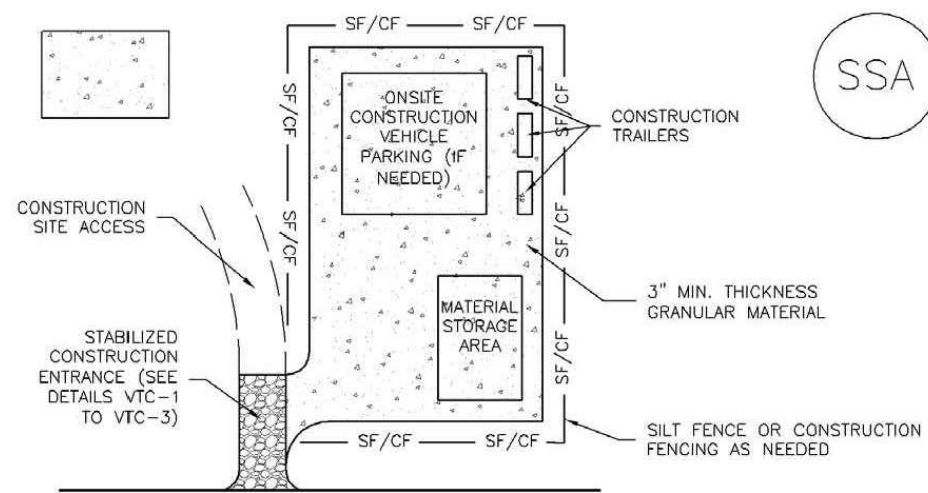
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SS-1



Stabilized Staging Area (SSA)

SM-6



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SSA-3

SSA-4

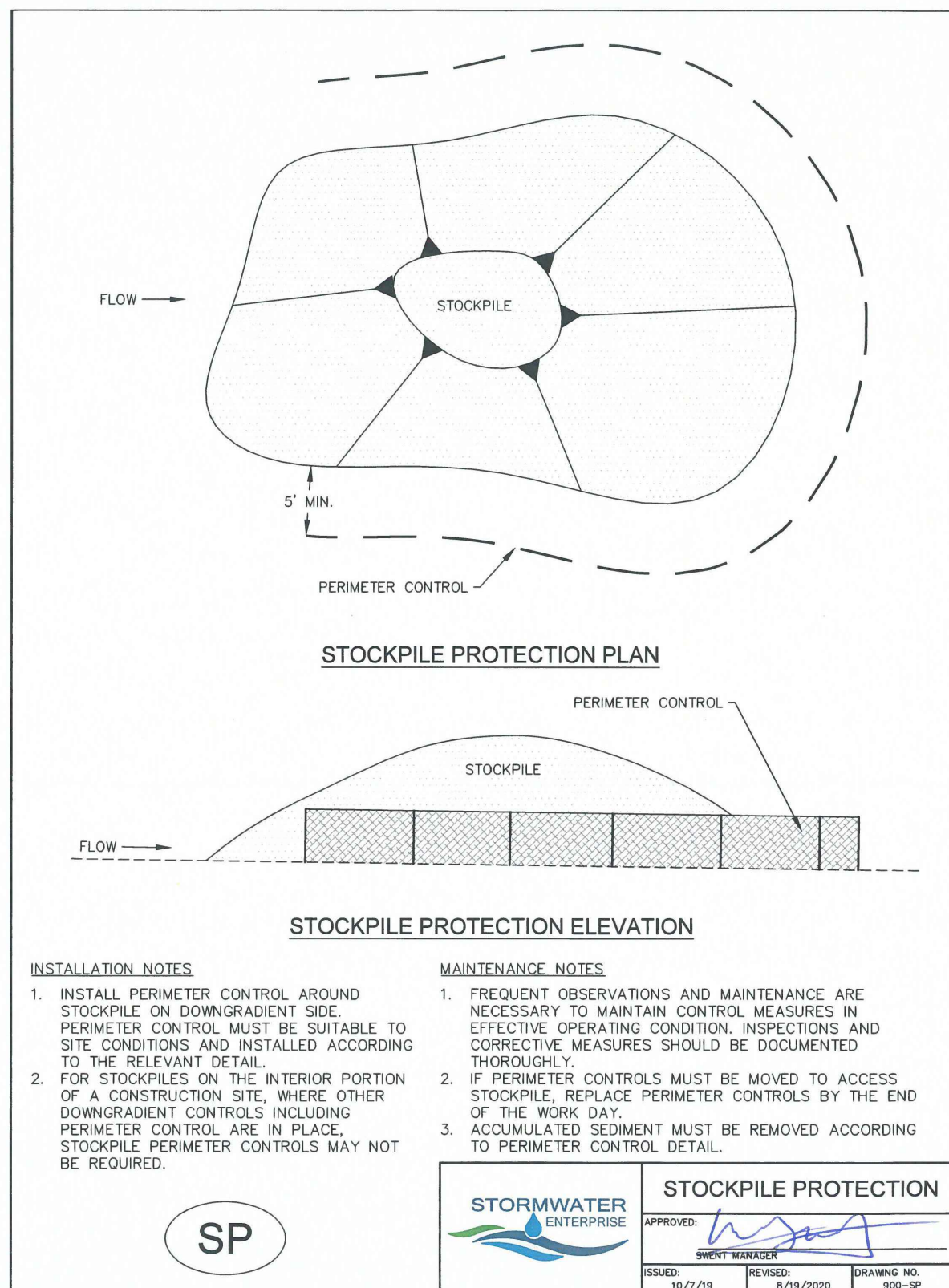
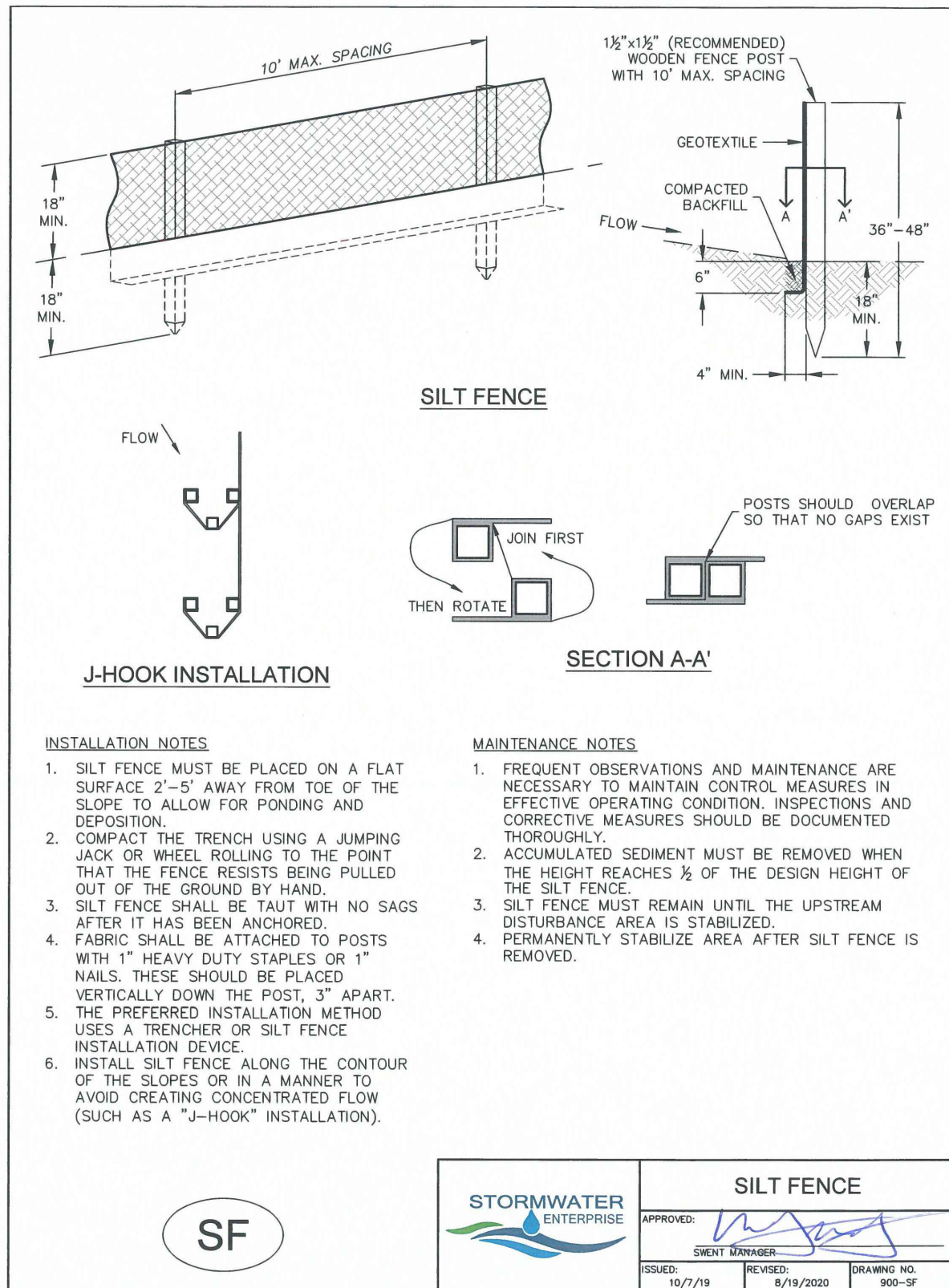
Stabilized Staging Area (SSA)

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, SEEDDED 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 IUDCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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SSA-4



FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG**
CALL 811
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG



VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
DATE: OCTOBER 28, 2022
SHEET

15 OF 17

AMENDMENT

DATE

NO.



COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO
GEC DETAILS (1)

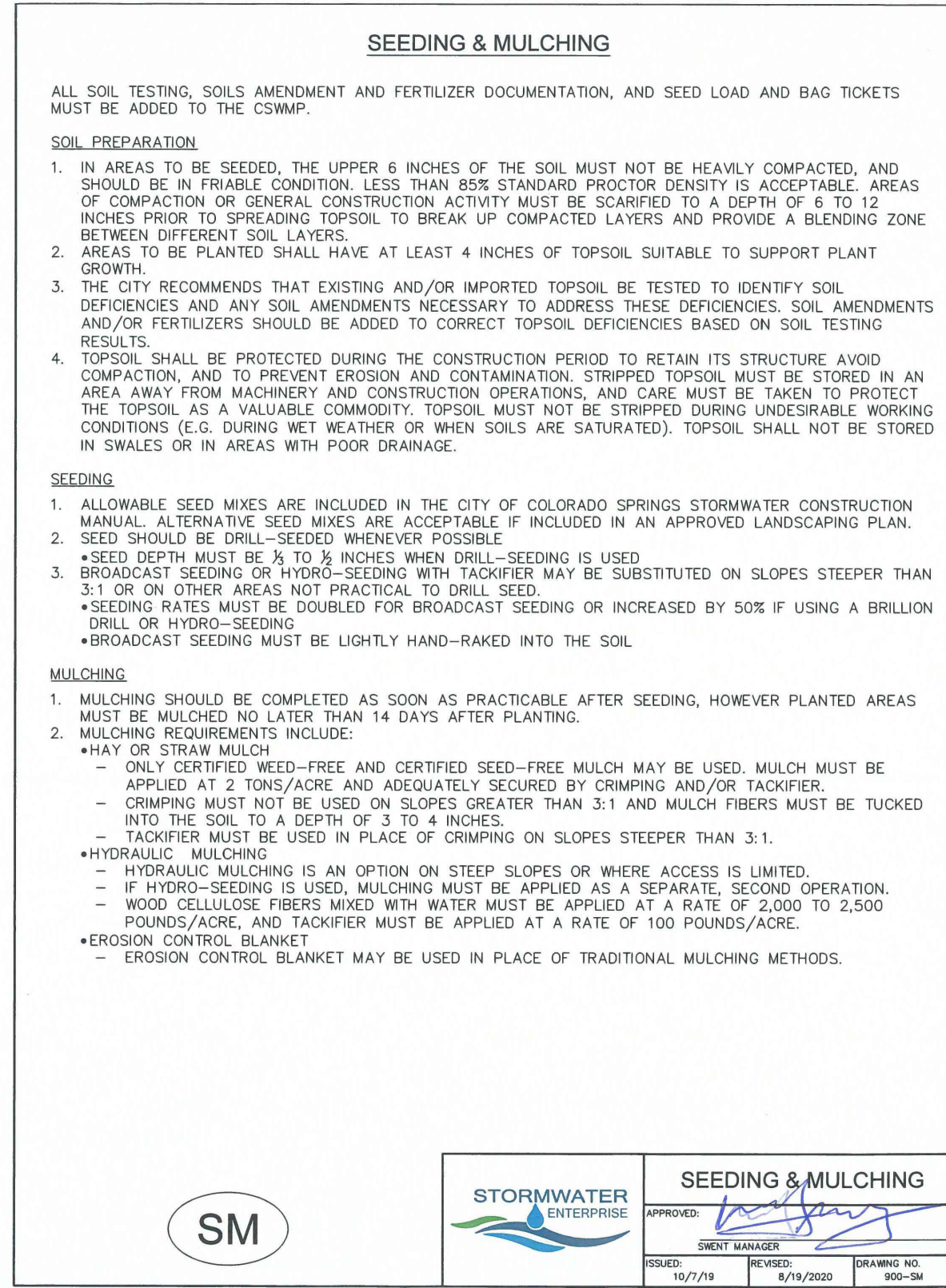
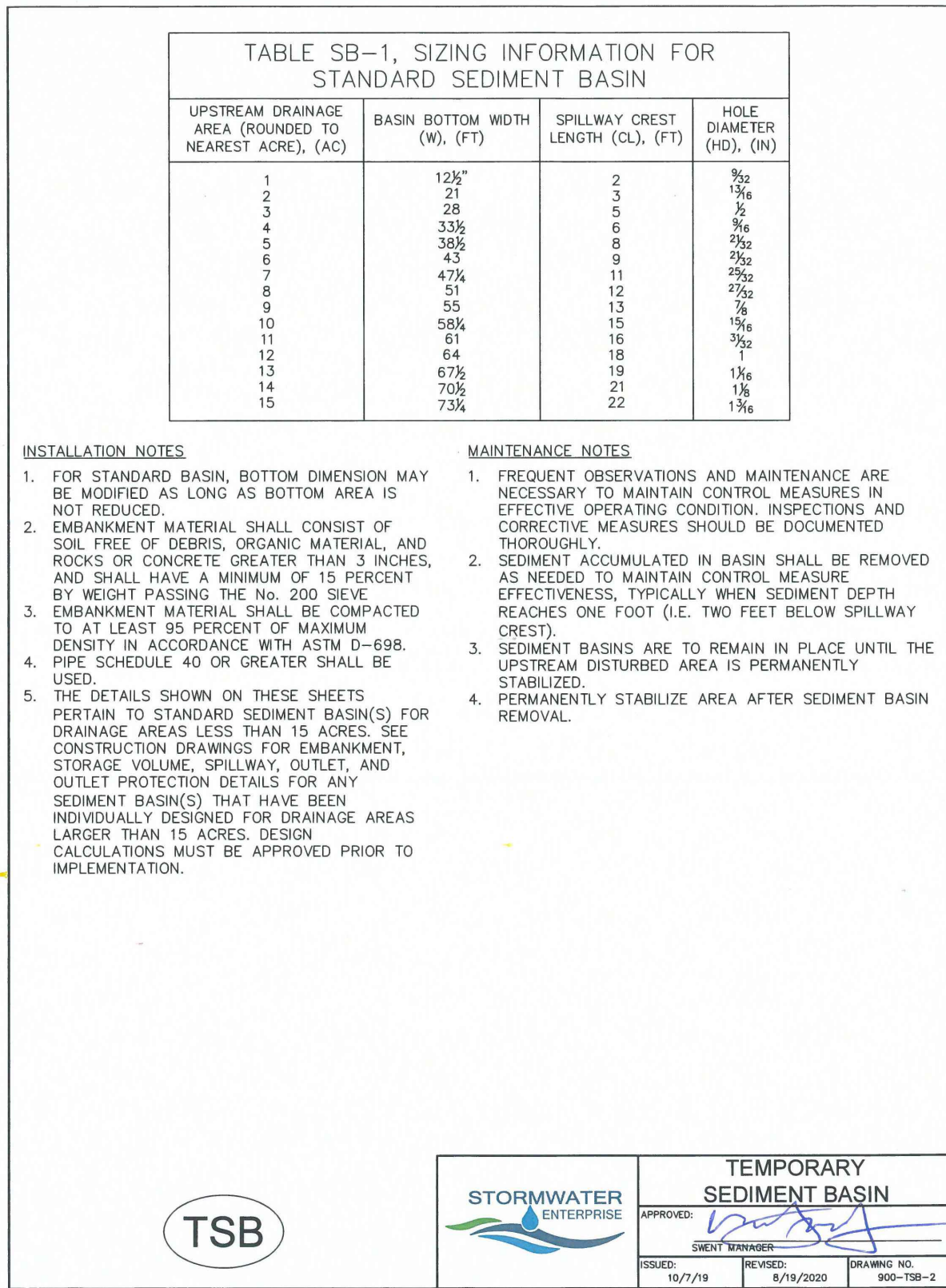
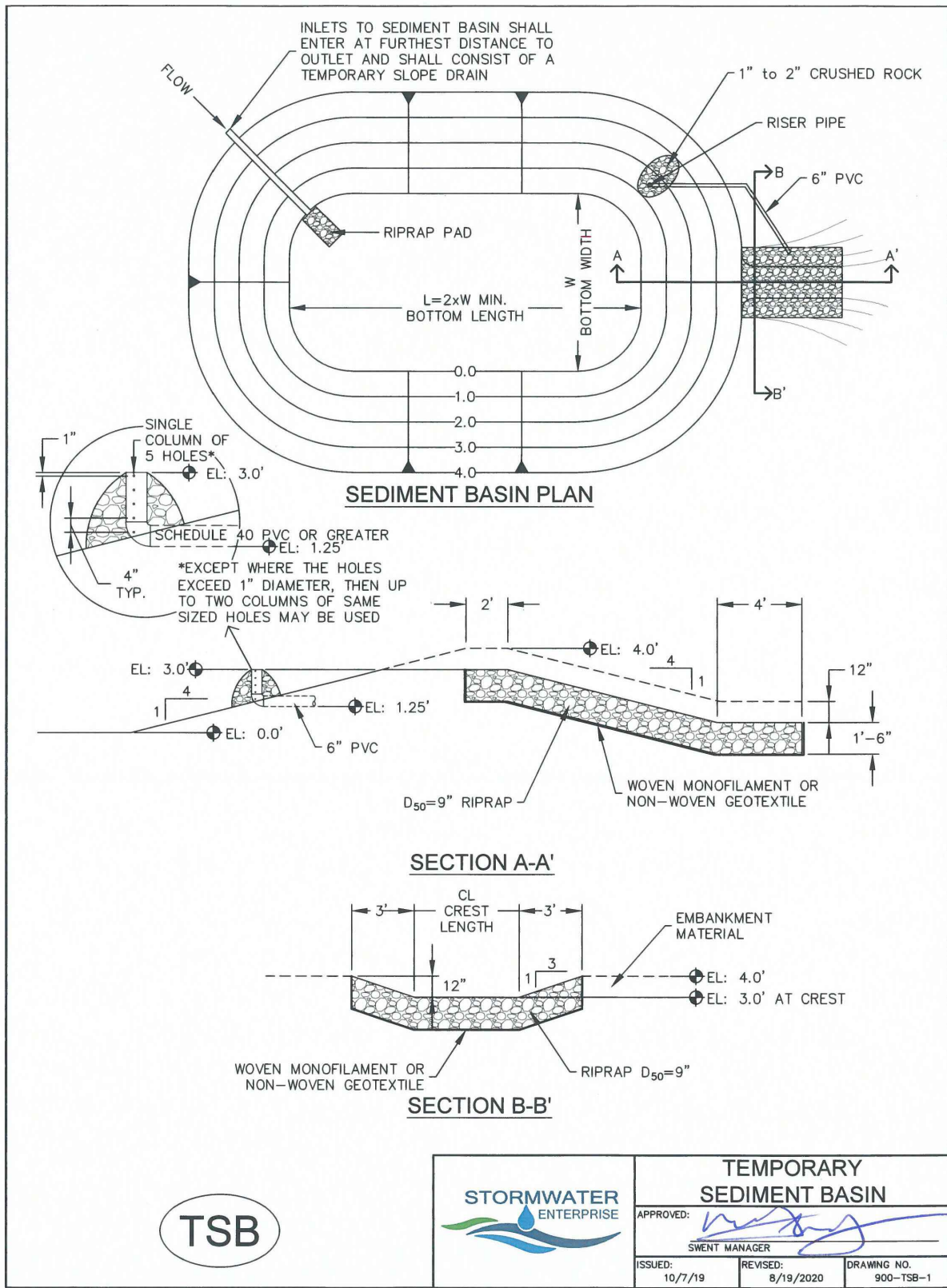
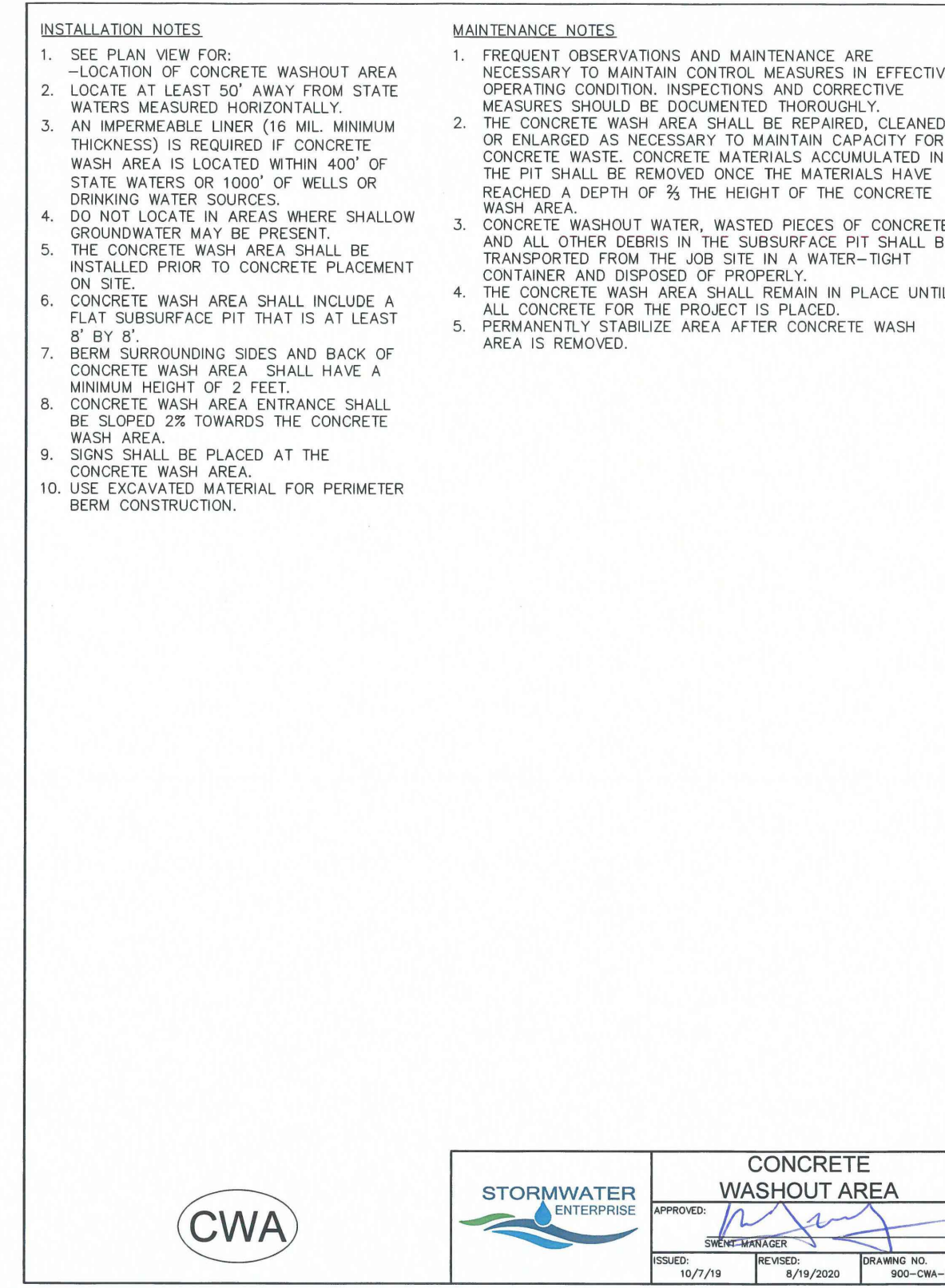
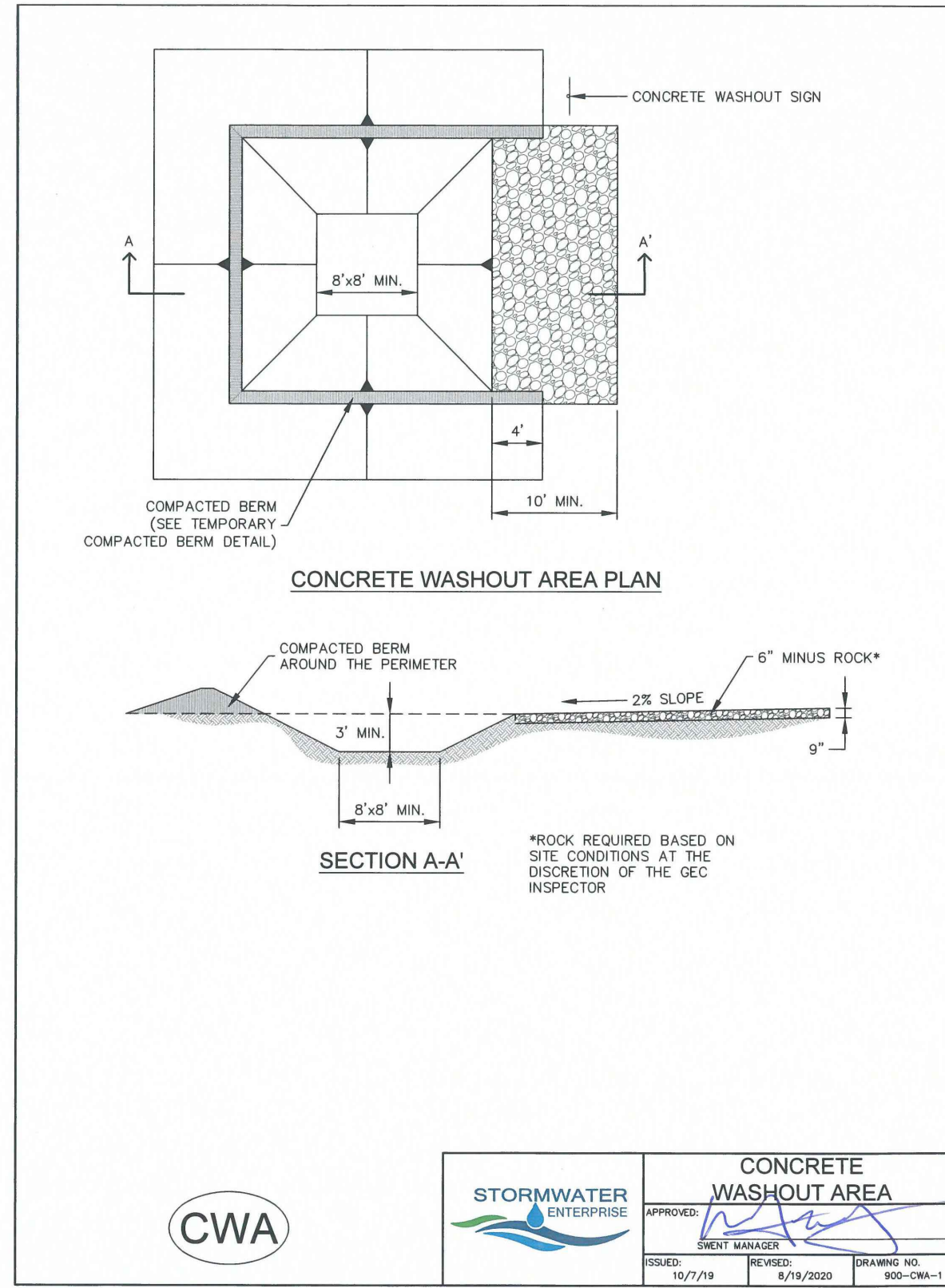
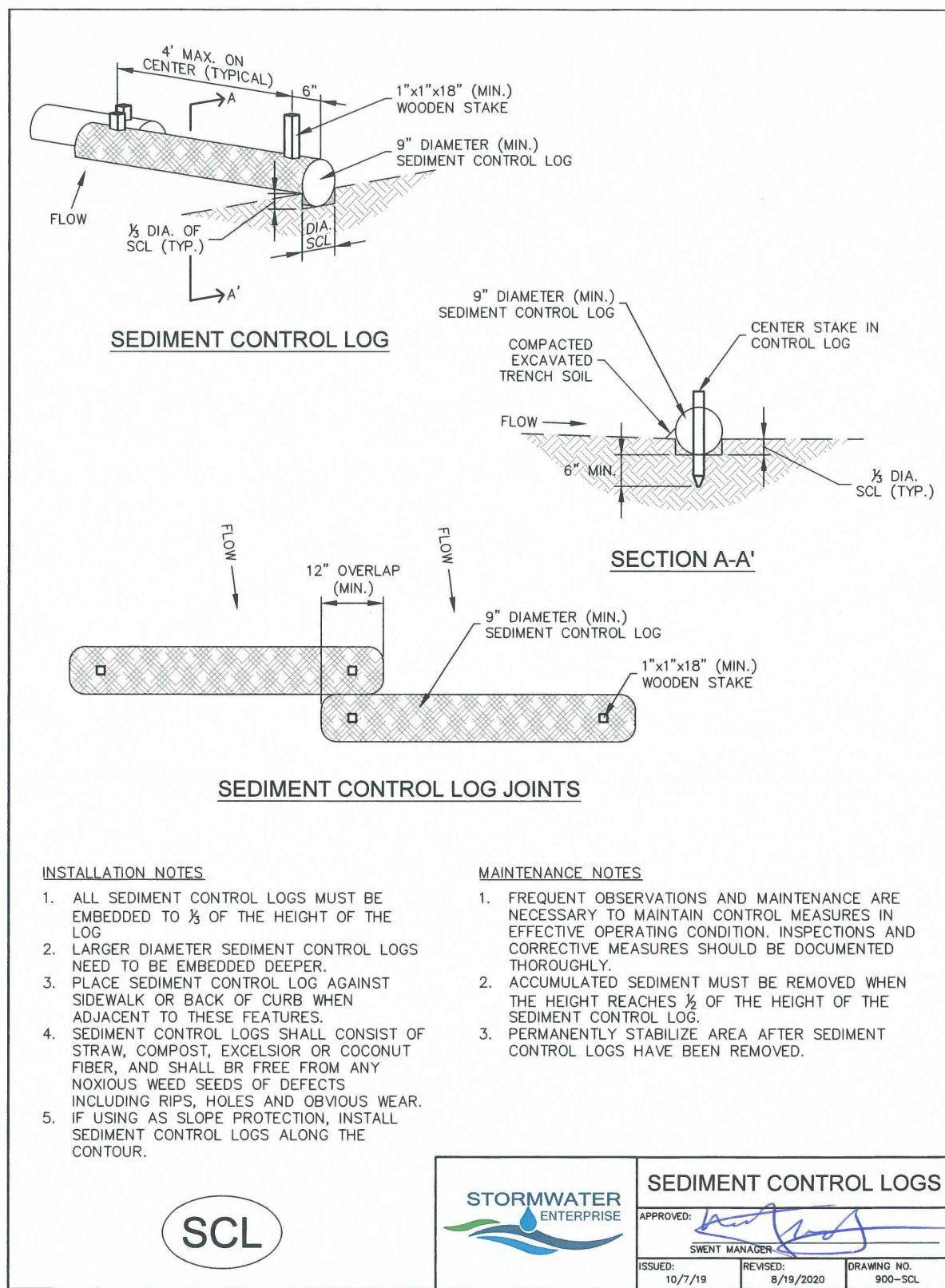
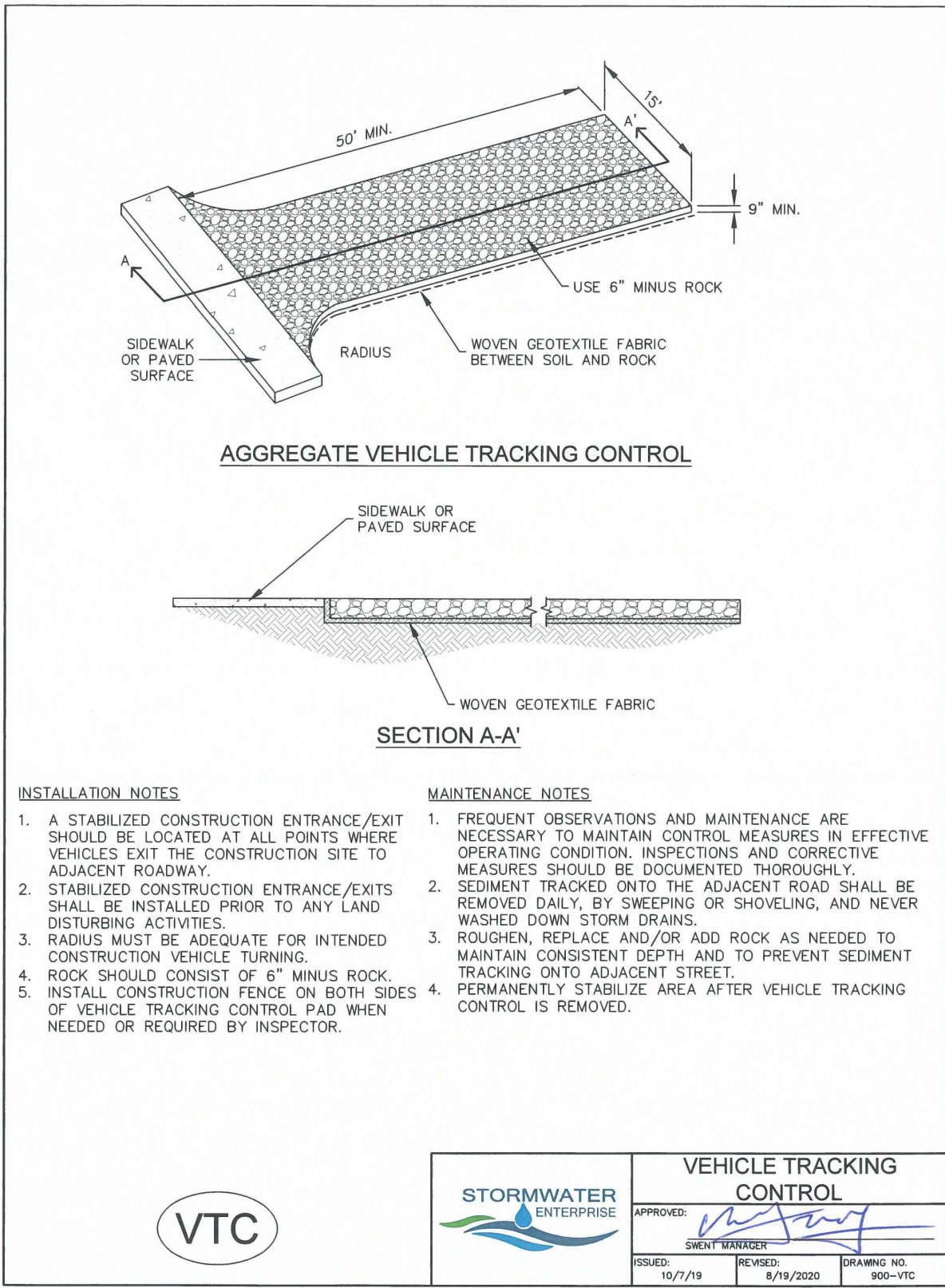


Table 5-1. El Paso County Conservation District All-Purpose Mix for Upland, Transition and Permanent Control Measure Areas

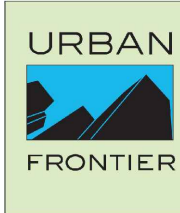
Common Name	Scientific Name	Growth Season / Form	% of Mix	Pounds PLS		
				• Irrigated broadcast • Irrigated hydroseeded	• Non-irrigated broadcast • Non-irrigated hydroseeded • Irrigated drilled	• Non-irrigated drilled
Bluestem, big	<i>Andropogon gerardii</i>	Warm, sod	20	4.4	2.2	1.1
Gramma, blue	<i>Bouteloua gracilis</i>	Warm, bunch	10	0.5	0.25	0.13
Green needlegrass ²	<i>Nassella viridula</i>	Cool, bunch	10	2	1	0.5
Wheatgrass, western ²	<i>Pascopyrum smithii</i>	Cool, sod	20	6.4	3.2	1.6
Gramma, sideoats	<i>Bouteloua curtipendula</i>	Warm, bunch	10	2	1	0.5
Switchgrass ²	<i>Panicum virgatum</i>	Warm, bunch/sod	10	0.8	0.4	0.2
Prairie sandreed	<i>Calamovilfa longifolia</i>	Warm, sod	10	1.2	0.6	0.3
Yellow indiangrass ²	<i>Sorghastrum nutans</i>	Warm, sod	10	2	1	0.5
Seed rate (lbs PLS/acre)				19.3	9.7	4.8

2 - SPECIES THAT WILL DO WELL IN THE BOTTOM OF POND AREAS.

AMENDMENT

DATE

NO.



COLORADO SPRINGS AIRPORT
INTEGRATION PHASE 4
GRADING AND EROSION CONTROL PLAN INITIAL
& INTERIM PHASE
COLORADO SPRINGS, COLORADO

GEC DETAILS (2)



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