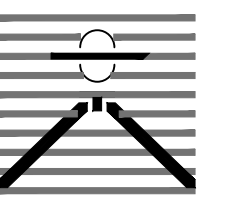


HAVEN VALLEY

EL PASO COUNTY, COLORADO

GRADING AND EROSION CONTROL DOCUMENTS

PREPARED BY:



DREXEL, BARRELL & CO.
Engineers-Surveyors
3 SOUTH 7TH STREET
COLORADO SPGS, COLORADO 80905
CONTACT: TIM D. MCCONNELL, P.E.
(719)260-4887
BOULDER • COLORADO SPRINGS • GREELEY

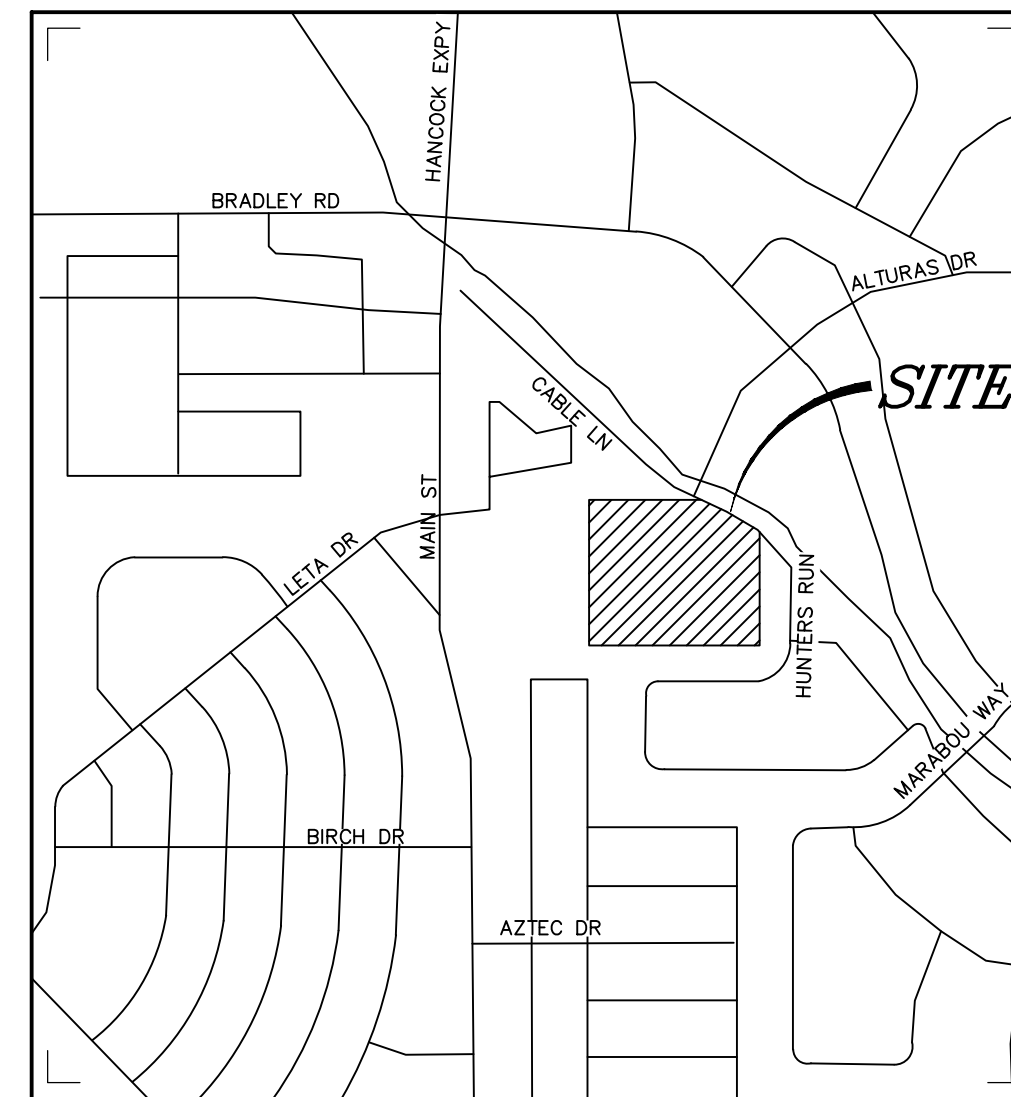
CLIENT:

MIDCO INVESTMENTS, LLC

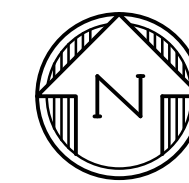
P.O. BOX 60069
COLORADO SPRINGS, CO 80960
CONTACT: ROBERT C. IRWIN
(719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

HAVEN VALLEY
(LETA DR.) BRADLEY RD/ALTURAS DR.
SECURITY, EL PASO COUNTY, COLORADO



VICINITY MAP
NOT TO SCALE



SHEET INDEX

ECCV	COVER SHEET
ECNT	NOTES
EC01	INITIAL GRADING AND EROSION CONTROL PLAN
EC02	INTERIM GEC PLAN
EC03	FINAL/VERTICAL GEC PLAN
ECDT	EROSION CONTROL DETAILS
ECDT	EROSION CONTROL DETAILS
PD01	DETENTION POND DETAILS
PD02	CONCRETE FOREBAY DETAILS
PD03	POND OUTLET STRUCTURE DEETAILS

AGENCY CONTACTS

ENGINEERING	EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT JOSHUA PALMER, COUNTY ENGINEER 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460	ELECTRIC	C.S.U. ELECTRIC DEPT. SYSTEM PLANNING MARY HOADLAND 1521 HANCOCK EXPY. COLORADO SPRINGS, CO 80903 (719) 668-5557
PLANNING	EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT KARI PARSONS, PROJECT MANAGER/PLANNER II 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-6300	GAS	COLORADO SPRINGS UTILITIES TODD STURTEVANT 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO 80947 (719) 668-3556
FIRE	SECURITY FIRE PROTECTION DISTRICT DAVID GIRARDIN, FIRE CHIEF 400 SECURITY BLVD COLORADO SPRINGS, CO 80911 (719) 392-7121	TELEPHONE	CENTURY LINK PATTY MOORE (719) 636-6096 (LOCATORS) (719) 597-8418 AT&T (LOCATORS) (719) 635-3674
WATER	SECURITY WATER & SANITATION DISTRICT ROY HEALD, DISTRICT MANAGER 231 SECURITY BLVD COLORADO SPRINGS, CO 80911 (719) 392-3475	CABLE	COMCAST RICKEY NELSON 213 N. UNION BLVD COLORADO SPRINGS, CO 80909 RICKEY_NELSON@CABLE.COMCAST.COM
WASTEWATER	SECURITY WATER & SANITATION DISTRICT ROY HEALD, DISTRICT MANAGER 231 SECURITY BLVD COLORADO SPRINGS, CO 80911 (719) 392-3475		

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

Description	Quantity	Units	Cost	Total	% Complete	Remaining
SECTION 1 - GRADING AND EROSION CONTROL (Construction and Permanent BMPs)						
Earthwork						
less than 1,000; \$5,300 min		CY	\$ 8.00	= \$ -		\$ -
1,000-5,000; \$8,000 min		CY	\$ 6.00	= \$ -		\$ -
5,001-20,000; \$30,000 min		CY	\$ 5.00	= \$ -		\$ -
20,001-50,000; \$100,000 min		CY	\$ 3.50	= \$ -		\$ -
50,001-200,000; \$175,000 min	175,000	CY	\$ 2.50	= \$ 437,500.00		\$ 437,500.00
greater than 200,000; \$500,000 min		CY	\$ 2.00	= \$ -		\$ -
Permanent Erosion Control Blanket	1,978.0	SY	\$ 8.00	= \$ 15,824.00		\$ 15,824.00
Permanent Seeding (inc. noxious weed mgmt.) & Mulchir	10.5	AC	\$ 1,875.00	= \$ 19,687.50		\$ 19,687.50
Permanent Pond/BMP (provide engineer's estimate)	1	EA	#####	= \$ 200,000.00		\$ 200,000.00
Concrete Washout Basin	1	EA	\$ 1,089.00	= \$ 1,089.00		\$ 1,089.00
Inlet Protection	9	EA	\$ 202.00	= \$ 1,818.00		\$ 1,818.00
Rock Check Dam	21	EA	\$ 605.00	= \$ 12,705.00		\$ 12,705.00
Safety Fence		LF	\$ 3.00	= \$ -		\$ -
Sediment Basin	1	EA	\$ 2,132.00	= \$ 2,132.00		\$ 2,132.00
Sediment Trap		EA	\$ 500.00	= \$ -		\$ -
Silt Fence	615	LF	\$ 3.00	= \$ 1,845.00		\$ 1,845.00
Slope Drain		LF	\$ 40.00	= \$ -		\$ -
Straw Bale		EA	\$ 31.00	= \$ -		\$ -
Straw Wattle/Rock Sock	36	LF	\$ 7.00	= \$ 252.00		\$ 252.00
Surface Roughening		AC	\$ 250.00	= \$ -		\$ -
Temporary Erosion Control Blanket		SY	\$ 3.00	= \$ -		\$ -
Temporary Seeding and Mulching		AC	\$ 1,666.00	= \$ -		\$ -
Vehicle Tracking Control	1	EA	\$ 2,867.00	= \$ 2,867.00		\$ 2,867.00
[insert items not listed but part of construction plans]				= \$ -		\$ -
MAINTENANCE (35% of Construction BMPs)				= \$ 7,566.65		\$ 7,566.65
Section 1 Subtotal				= \$ 703,286.15		\$ 703,286.15

* - Subject to defect warranty financial assurance. A minimum of 20% shall be retained until final acceptance (MAXIMUM OF 80% COMPLETE ALLOWED)

STRUCTURAL FILL

DURING EARTHWORK BALANCING ACROSS THE SITE, AREAS TO RECEIVE STRUCTURAL FILL SHOULD HAVE TOPSOIL, ORGANIC MATERIAL, OR DEBRIS REMOVED. LOOSE, WET SOILS, ESPECIALLY THOSE FROM NOTED DRAINAGE AREAS, SHOULD BE EXCAVATED TO DRY SOLID MATERIAL, STOCKPILED AND EVALUATED FOR SUITABILITY FOR RE-USE AS STRUCTURAL FILL. IF SOIL IS FOUND TO BE UNSUITABLE AS STRUCTURAL FILL, IT MAY STILL BE SUITABLE AS BACKFILL IN NON-STRUCTURAL APPLICATIONS.

STRUCTURAL FILL COMPOSED OF ON-SITE SOILS SHOULD CONSIST OF GRANULAR, NIL TO LOW-EXPANSIVE MATERIAL. IF CLAYSTONE IS ELECTED TO BE RE-USED IT SHOULD BE THOROUGHLY PROCESSED, MOISTURE CONDITIONED AND BLENDED WITH SAND SOIL. FILL SHOULD BE SPREAD ACROSS THE SITE AND PLACED IN EVEN LOOSE LIFTS NOT EXCEEDING 10-INCHES. MOISTURE CONDITIONED TO FACILITATE COMPACTION (USUALLY WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT), AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D-698. THE MATERIALS SHOULD BE SPREAD AND COMPACTED BY MECHANICAL MEANS.

STRUCTURAL FILL PLACED ON SLOPES SHOULD BE BENCHED INTO THE SLOPE. MAXIMUM BENCH HEIGHTS SHOULD NOT EXCEED 4 FEET, AND BENCH WIDTHS SHOULD BE WIDE ENOUGH TO ACCOMMODATE COMPACTION EQUIPMENT. MATERIALS USED FOR STRUCTURAL FILL SHOULD BE APPROVED BY RMC PRIOR TO USE. STRUCTURAL FILL SHOULD NOT BE PLACED ON FROZEN SUBGRADE OR ALLOWED TO FREEZE DURING MOISTURE CONDITIONING AND PLACEMENT.

BENCHMARK

CHISELED "X" IN WING WALL ELEVATION 5859.54 (FIMS DATUM), NORTH EAST CORNER OF FMIC SUPERDITCH AND ALTURAS DR.

LEGAL DESCRIPTION

THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

FLOODPLAIN STATEMENT

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) PANEL #080410763G (DECEMBER 7, 2018) THE PROJECT SITE IS NOT WITHIN A DESIGNATED 100-YR FLOODPLAIN.

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: FALL/WINTER 2023-SPRING/SUMMER 2024

AREAS

TOTAL AREA OF THE SITE TO BE CLEARED, EXCAVATED OR GRADED: APPROXIMATELY 13.6 ACRES

RECEIVING WATERS

FOUNTAIN CREEK

SOILS

HYDROLOGIC TYPE A: BLAKELAND LOAMY SAND

VEGETATION

EXISTING SITE IS UNDEVELOPED AND COVERED WITH NATIVE GRASSES

DESIGN 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. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

Tim D. McConnell
TIM D. MCCONNELL DATE
P.E.# 33797

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN

JEFF MARK OWNER DATE

EL PASO COUNTY

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

JENNIFER IRVINE, P.E. COUNTY ENGINEER DATE

ISSUE	DATE
INITIAL ISSUE	3/15/22
LATEST ISSUE	7/27/23
DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21085-03ECCV

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

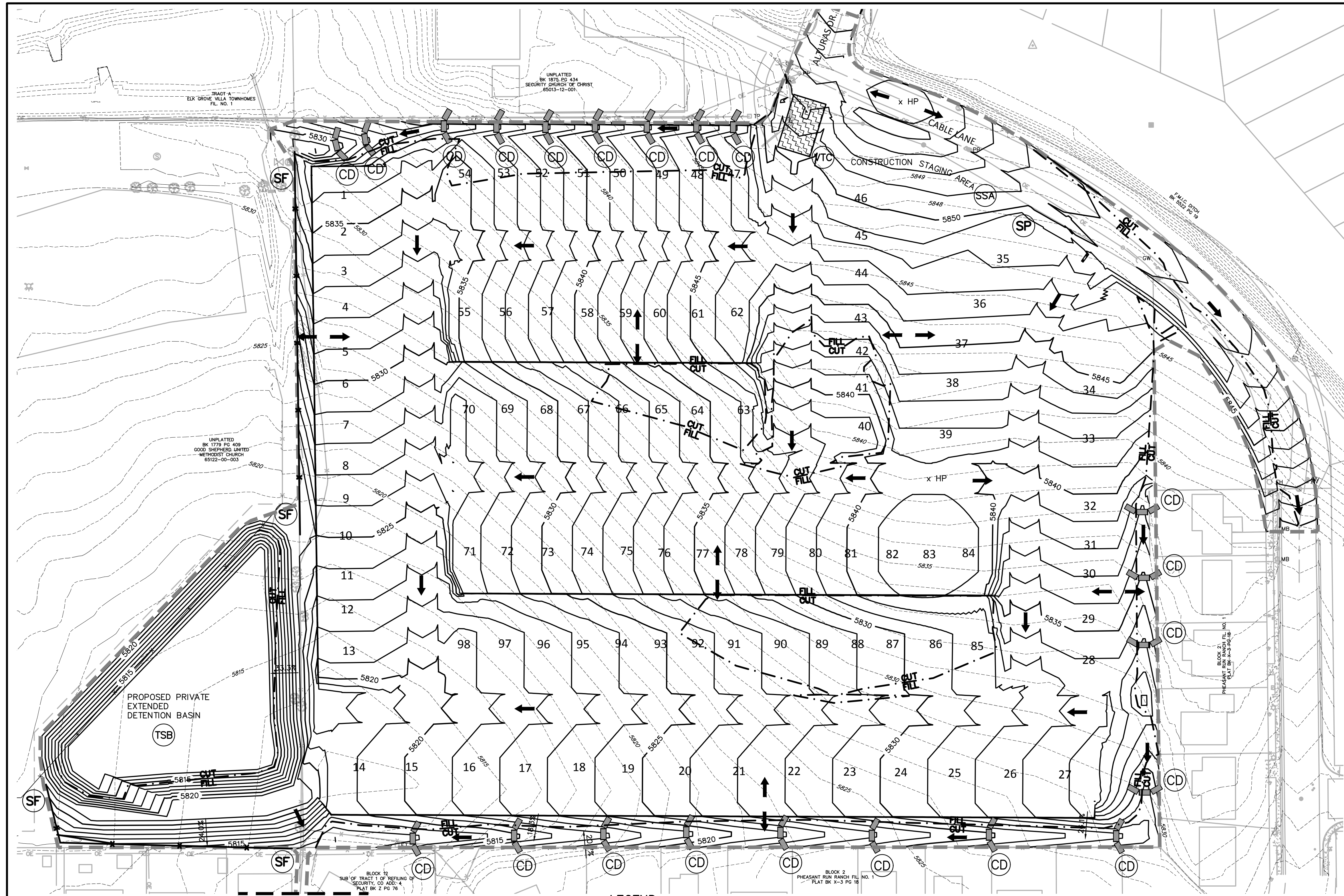
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HORIZONTAL: N/A
VERTICAL: N/A

EROSION CONTROL COVER SHEET

PROJECT NO. 21085-03CSCV
DRAWING NO.

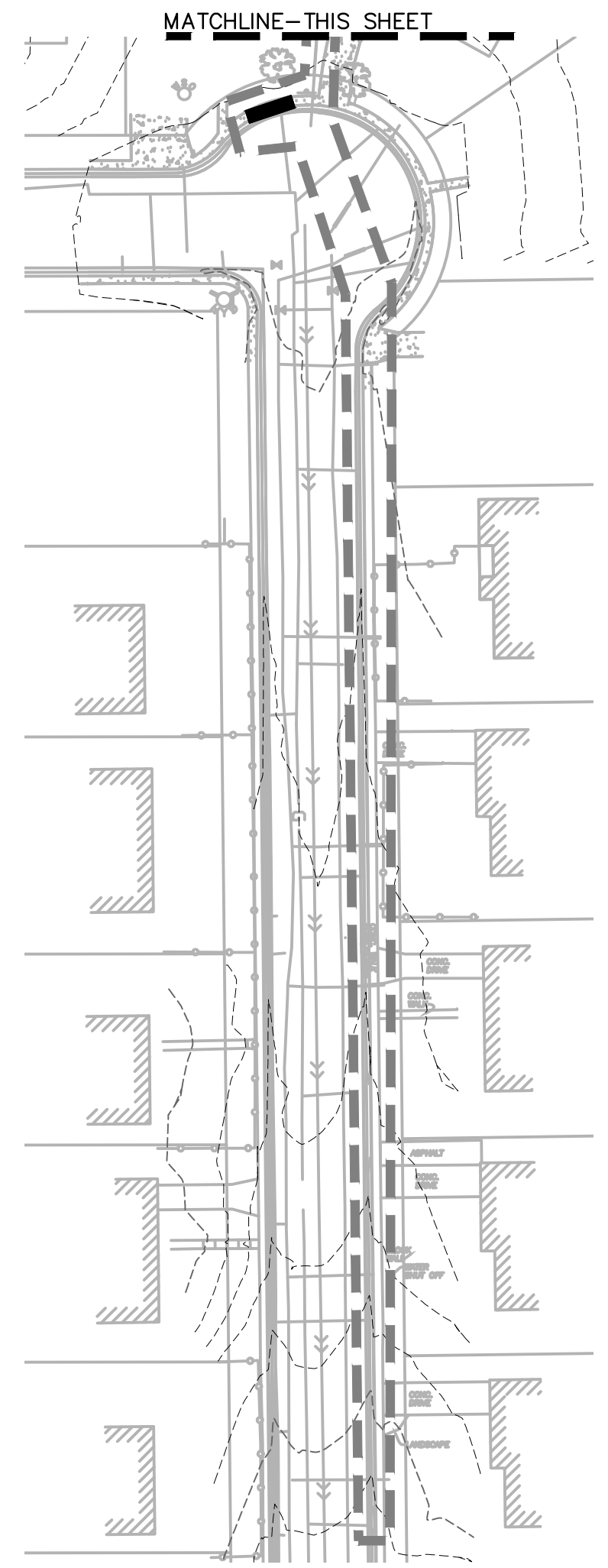
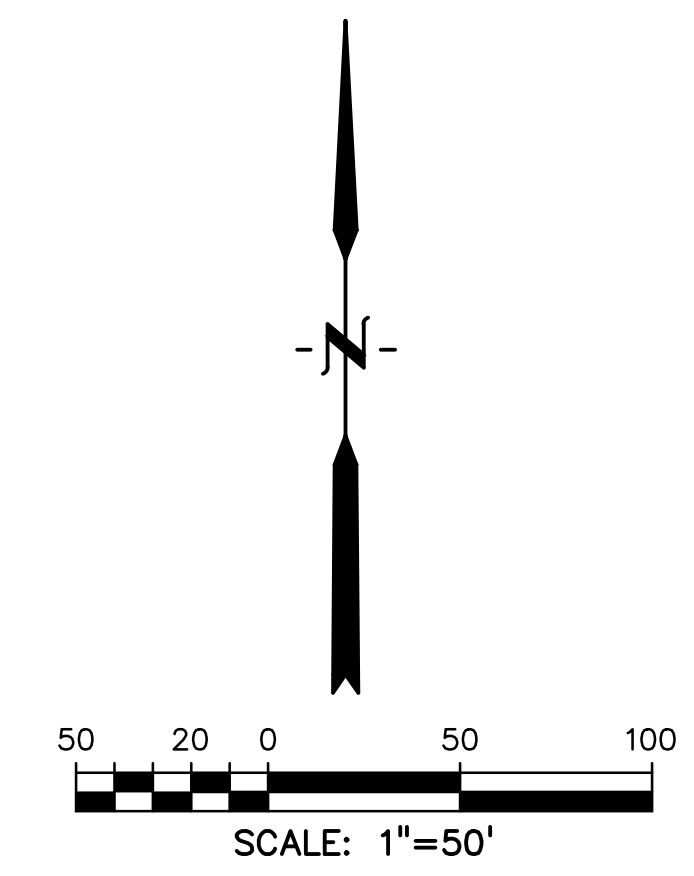
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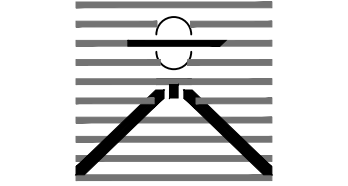
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NOTES:
 1. REFER TO LANDSCAPING PLANS FOR ONSITE VEGETATION
 2. REFER TO SWMP FOR NON-STRUCTURAL CONTROL MEASURES.
 3. ALL DISTURBED AREAS SHALL BE SEEDED WITHIN 30 DAYS OF DISTURBANCE.

LEGEND	
PROPOSED INTERMEDIATE CONTOUR 5522	ROCK SOCKS (RS)
PROPOSED INDEX CONTOUR 5520	EROSION CONTROL BLANKET (ECB)
EX. INTERMEDIATE CONTOUR 5364	SEEDING/MULCHING (SM)
EX. INDEX CONTOUR 5365	
DIRECTION OF FLOW	
HIGH POINT HP	
LOW POINT LP	
PROPOSED INLET	
PROPOSED MANHOLE	
LIMIT OF DISTURBANCE	
INLET PROTECTION (IP)	
CONCRETE WASHOUT AREA (CWA)	
VEHICLE TRACKING CONTROL (VTC)	
SILT FENCE (SF)	
TEMPORARY SEDIMENT BASIN (TSB)	
CHECK DAM (CD)	
STOCKPILE PROTECTION (SP)	
STABILIZED STAGING AREA (SSA)	



PREPARED BY:

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

CLIENT:
 MIDCO INVESTMENTS, LLC

P.O. BOX 60069
 COLORADO SPRINGS, CO 80960
 CONTACT: ROBERT C. IRWIN
 (719) 475-7474

CONSTRUCTION DOCUMENTS FOR:
HAVEN VALLEY
 (LETA DR.) BRADLEY RD/ALTURAS DR.
 SECURITY, EL PASO COUNTY, COLORADO

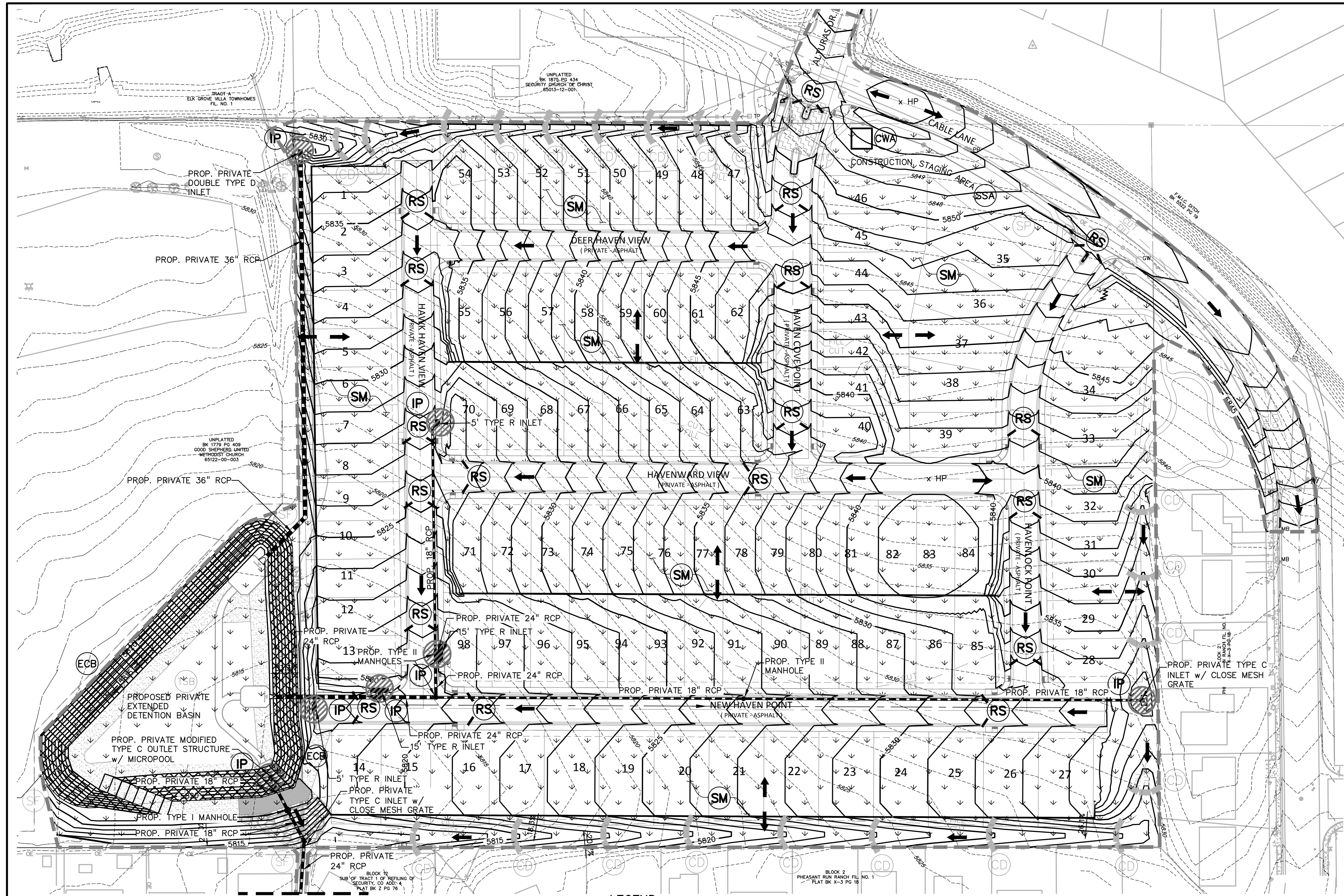
ISSUE	DATE
INITIAL ISSUE	3/15/22
LATEST ISSUE	7/27/23
DESIGNED BY:	TDM
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21085-03C01

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

INITIAL GRADING AND EROSION CONTROL PLAN
 PROJECT NO. 21085-03CSCV
 DRAWING NO.



EC01
 SHEET: 40 OF 47

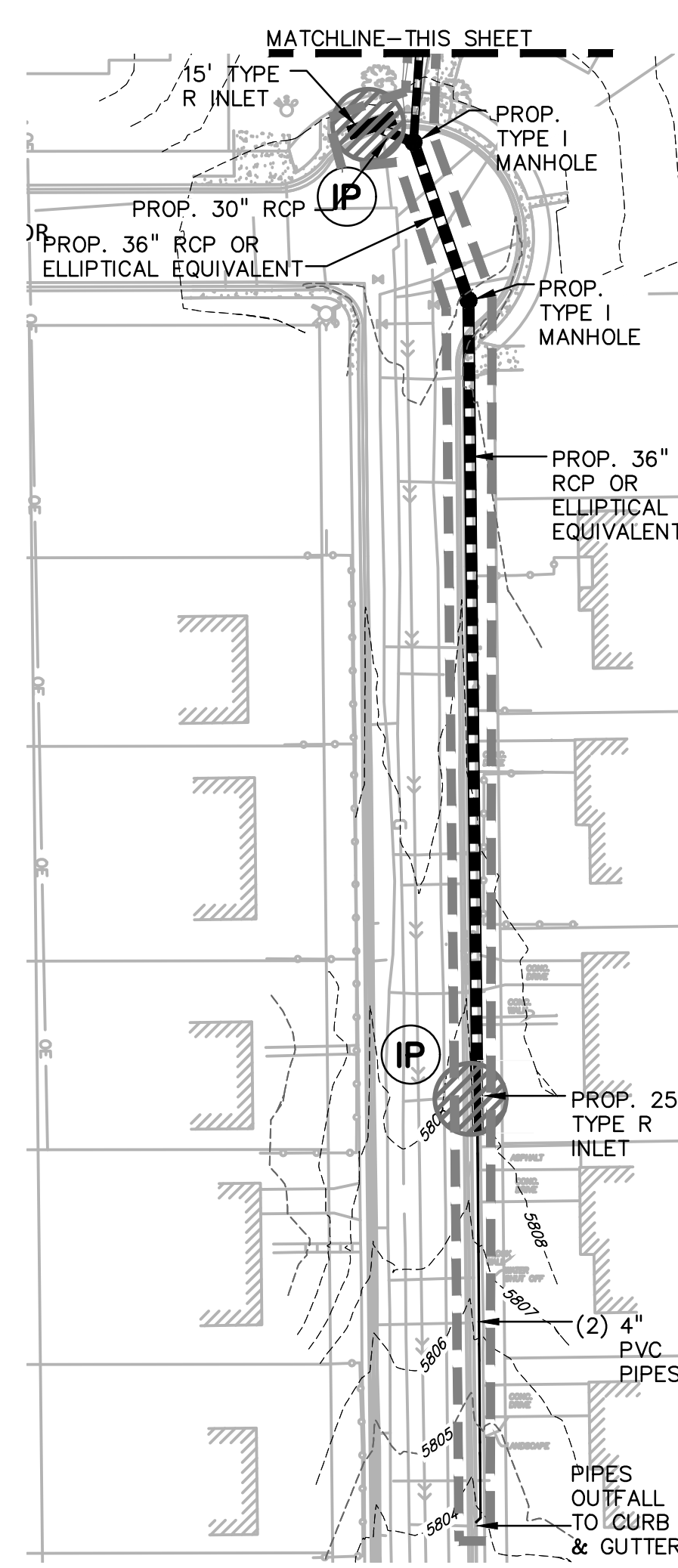
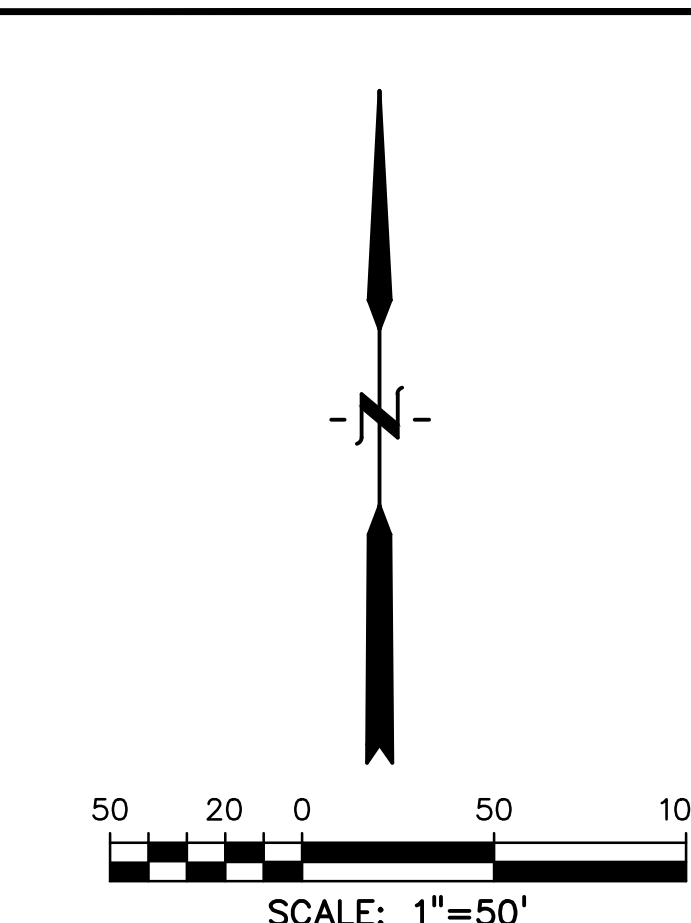


NOTES:

- REFER TO LANDSCAPING PLANS FOR ONSITE VEGETATION
- REFER TO SWMP FOR NON-STRUCTURAL CONTROL MEASURES.
- ALL DISTURBED AREAS SHALL BE SEEDED WITHIN 30 DAYS OF DISTURBANCE.

LEGEND

PROPOSED INTERMEDIATE CONTOUR 5522	ROCK SOCKS (RS)	EROSION CONTROL BLANKET (ECB)
PROPOSED INDEX CONTOUR 5520	CONCRETE WASHOUT AREA (CWA)	SEEDING/MULCHING (SM)
EX. INTERMEDIATE CONTOUR 5364	VEHICLE TRACKING CONTROL (VTC)	
EX. INDEX CONTOUR 5365	SILT FENCE (SF)	
DIRECTION OF FLOW ←	TEMPORARY SEDIMENT BASIN (TSB)	
HIGH POINT HP	CHECK DAM (CD)	
LOW POINT LP	STOCKPILE PROTECTION (SP)	
PROPOSED INLET —	STABILIZED STAGING AREA (SSA)	
PROPOSED MANHOLE ●		
LIMIT OF DISTURBANCE - - - - -		
INLET PROTECTION (IP)		



811 Know what's below. Call before you dig.
 CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PREPARED BY:

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

CLIENT:

MIDCO INVESTMENTS, LLC

P.O. BOX 60069
 COLORADO SPRINGS, CO 80960
 CONTACT: ROBERT C. IRWIN
 (719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

HAVEN VALLEY

(LETA DR.) BRADLEY RD/ALTURAS DR.
 SECURITY, EL PASO COUNTY, COLORADO

ISSUE	DATE
INITIAL ISSUE	3/15/22
LATEST ISSUE	7/27/23

DESIGNED BY: TDM
 DRAWN BY: GES
 CHECKED BY: TDM
 FILE NAME: 21085-03EC02

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

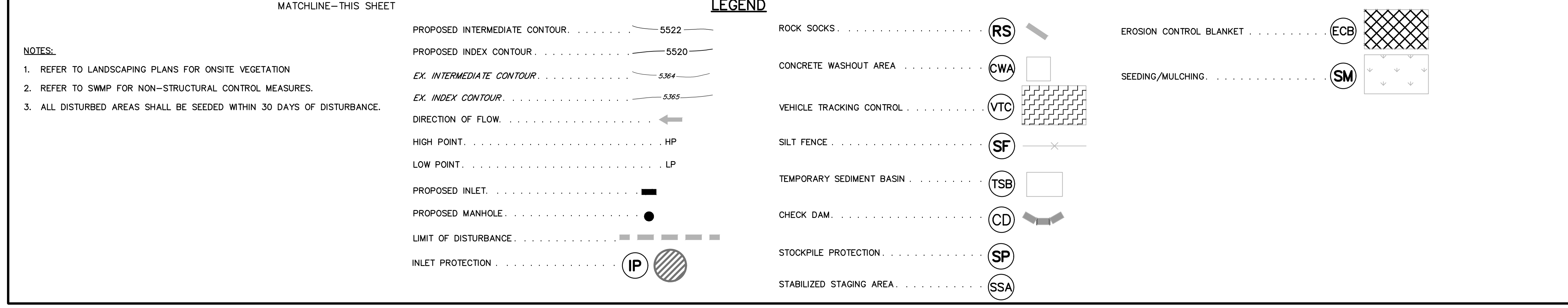
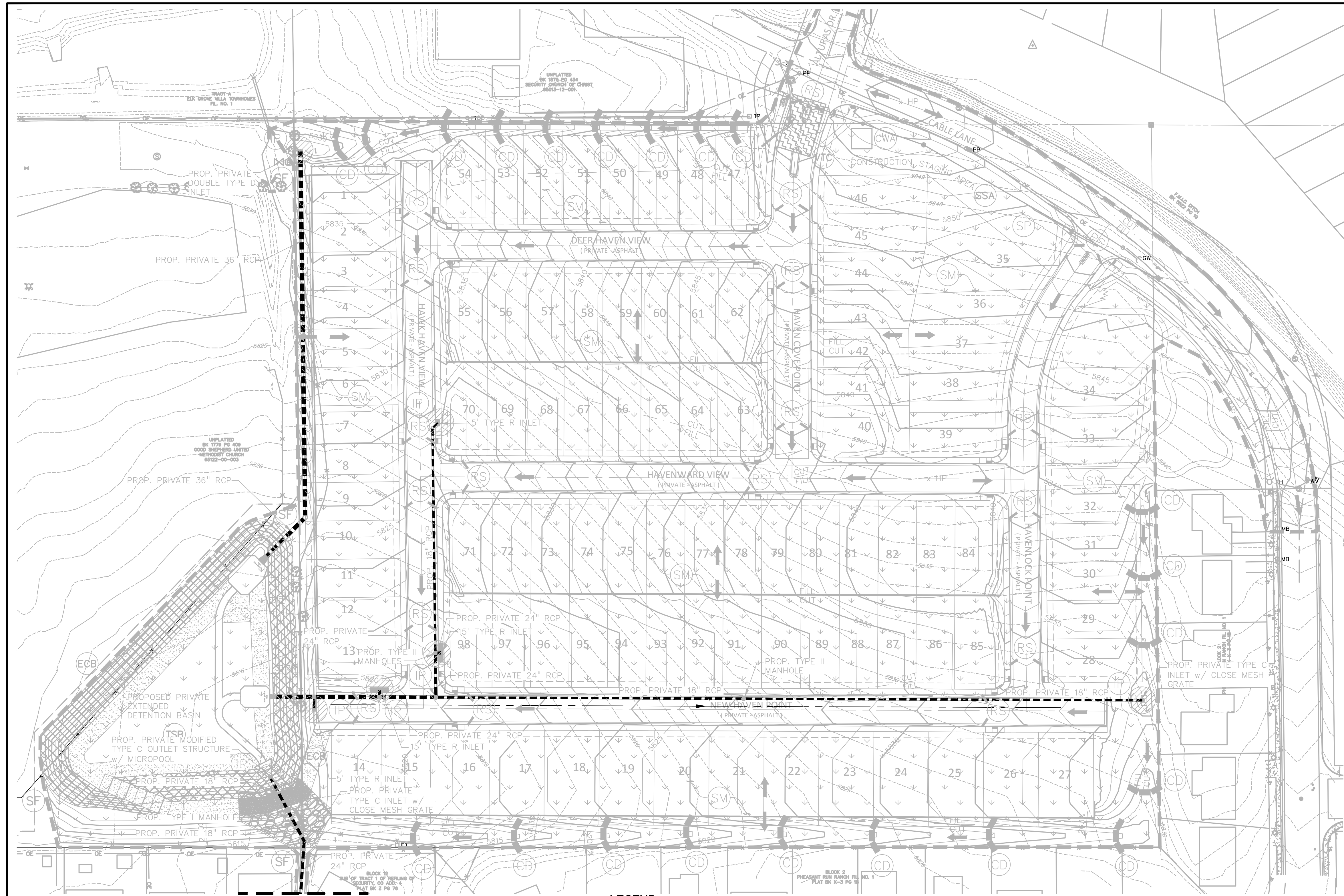
DRAWING SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

INTERIM GEC PLAN

PROJECT NO. 21085-03CSCV
 DRAWING NO.

EC02

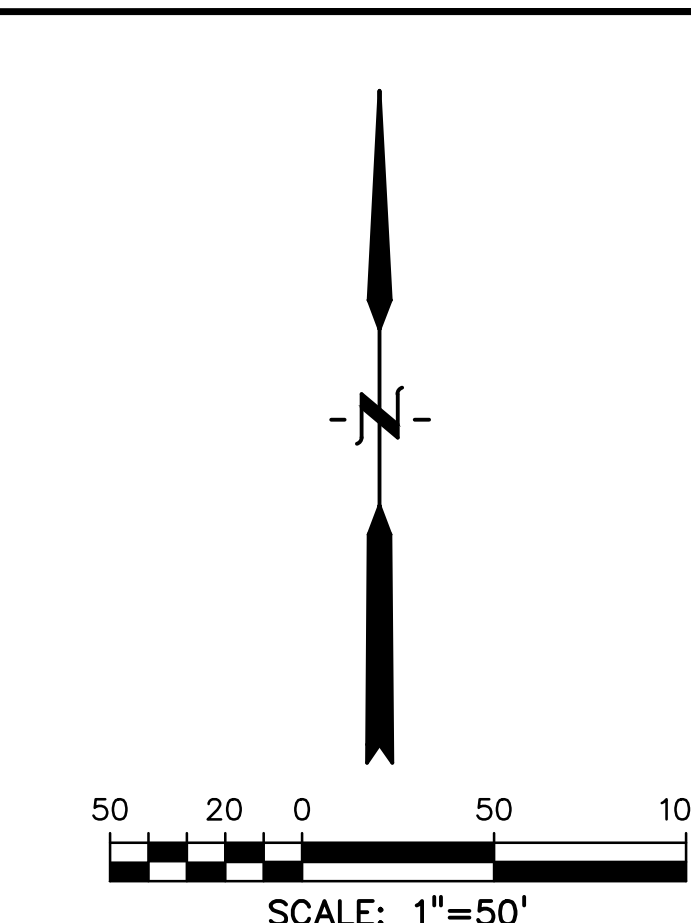
SHEET: 41 OF 47



- NOTES:**
- REFER TO LANDSCAPING PLANS FOR ONSITE VEGETATION
 - REFER TO SWMP FOR NON-STRUCTURAL CONTROL MEASURES.
 - ALL DISTURBED AREAS SHALL BE SEEDED WITHIN 30 DAYS OF DISTURBANCE.

LEGEND

PROPOSED INTERMEDIATE CONTOUR 5522	ROCK SOCKS (RS)	EROSION CONTROL BLANKET (ECB)
PROPOSED INDEX CONTOUR 5520	CONCRETE WASHOUT AREA (CWA)	SEEDING/MULCHING (SM)
EX. INTERMEDIATE CONTOUR 5364	VEHICLE TRACKING CONTROL (VTC)	
EX. INDEX CONTOUR 5365	SILT FENCE (SF)	
DIRECTION OF FLOW	TEMPORARY SEDIMENT BASIN (TSB)	
HIGH POINT HP	CHECK DAM (CD)	
LOW POINT LP	STOCKPILE PROTECTION (SP)	
PROPOSED INLET	STABILIZED STAGING AREA (SSA)	
PROPOSED MANHOLE		
LIMIT OF DISTURBANCE		
INLET PROTECTION (IP)		



PREPARED BY:



DREXEL, BARRELL & CO.
 Engineers • Surveyors
 3 SOUTH 7TH STREET
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CLIENT:

MIDCO INVESTMENTS, LLC

P.O. BOX 60069
 COLORADO SPRINGS, CO 80960
 CONTACT: ROBERT C. IRWIN
 (719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

HAVEN VALLEY

(LETA DR.) BRADLEY RD/ALTURAS DR.
 SECURITY, EL PASO COUNTY, COLORADO

ISSUE	DATE
INITIAL ISSUE	3/15/22
LATEST ISSUE	7/27/23
DESIGNED BY:	TDM
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21085-03EC03

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

DRAWING SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: N/A

FINAL/VERTICAL GEC PLAN

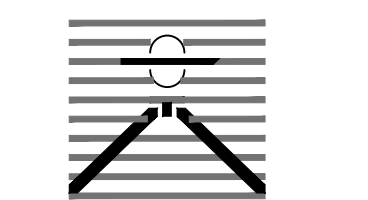
PROJECT NO. 21085-03CSCV
 DRAWING NO.

EC03

SHEET: 42 OF 47



PREPARED BY:



DREXEL, BARRELL & CO.
Engineers-Surveyors
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CLIENT:

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COLORADO SPRINGS, CO 80960
CONTACT: ROBERT C. IRWIN
(719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

HAVEN VALLEY
(LETA DR.) BRADLEY RD/ALTURAS DR.
SECURITY, EL PASO COUNTY, COLORADO

ISSUE	DATE
INITIAL ISSUE	3/15/22
LATEST ISSUE	7/27/23

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21085-03ECDT

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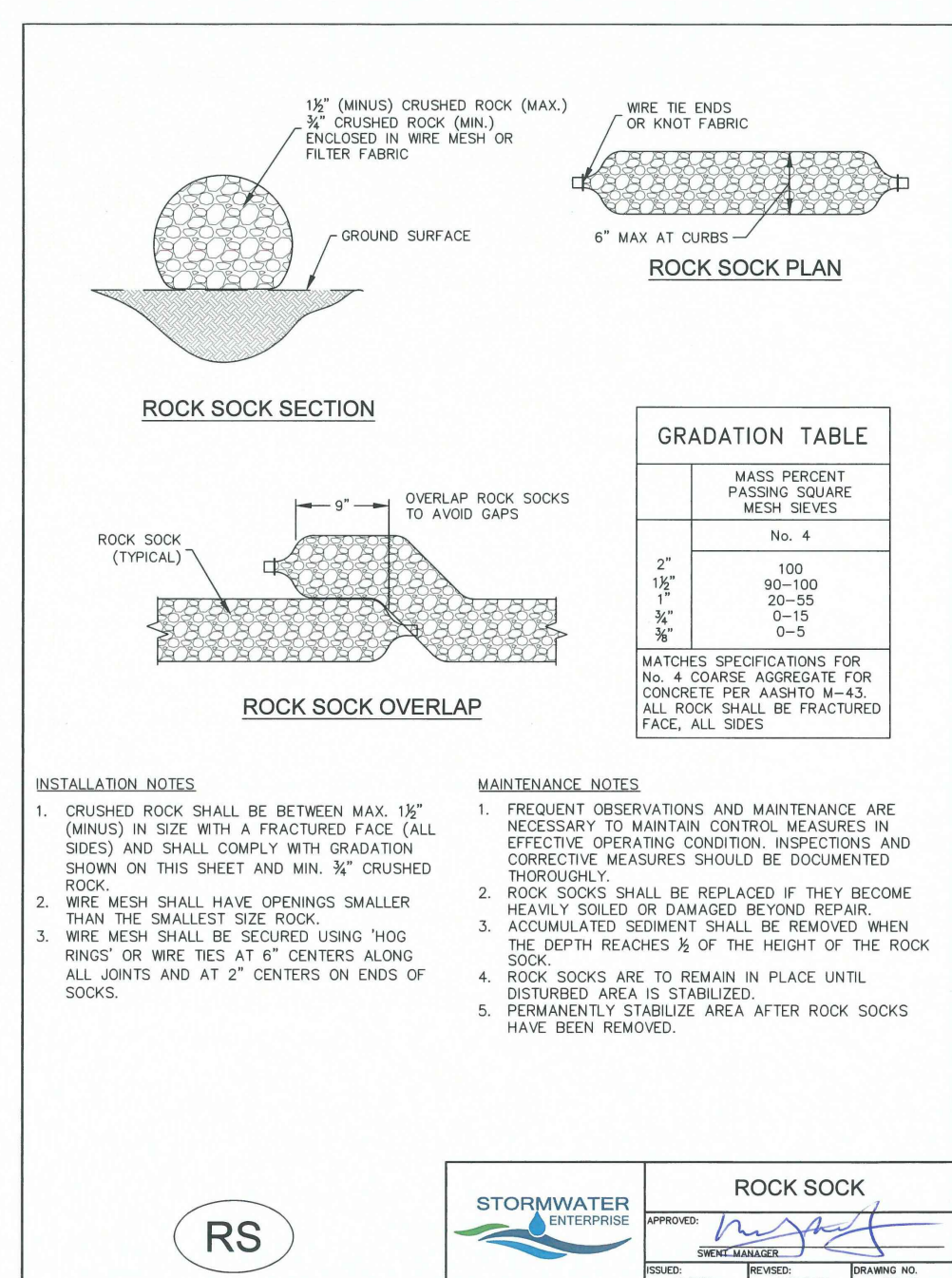
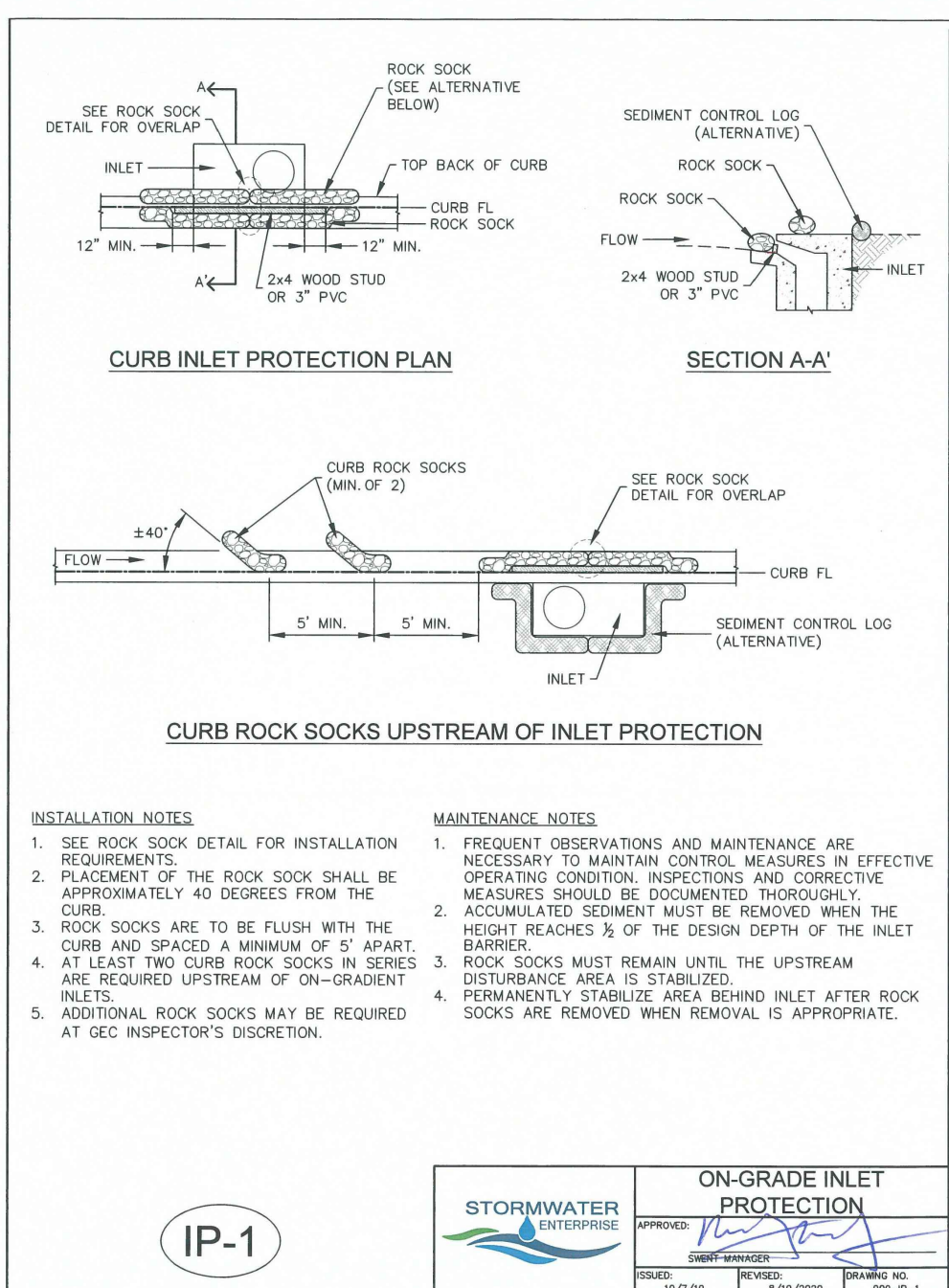
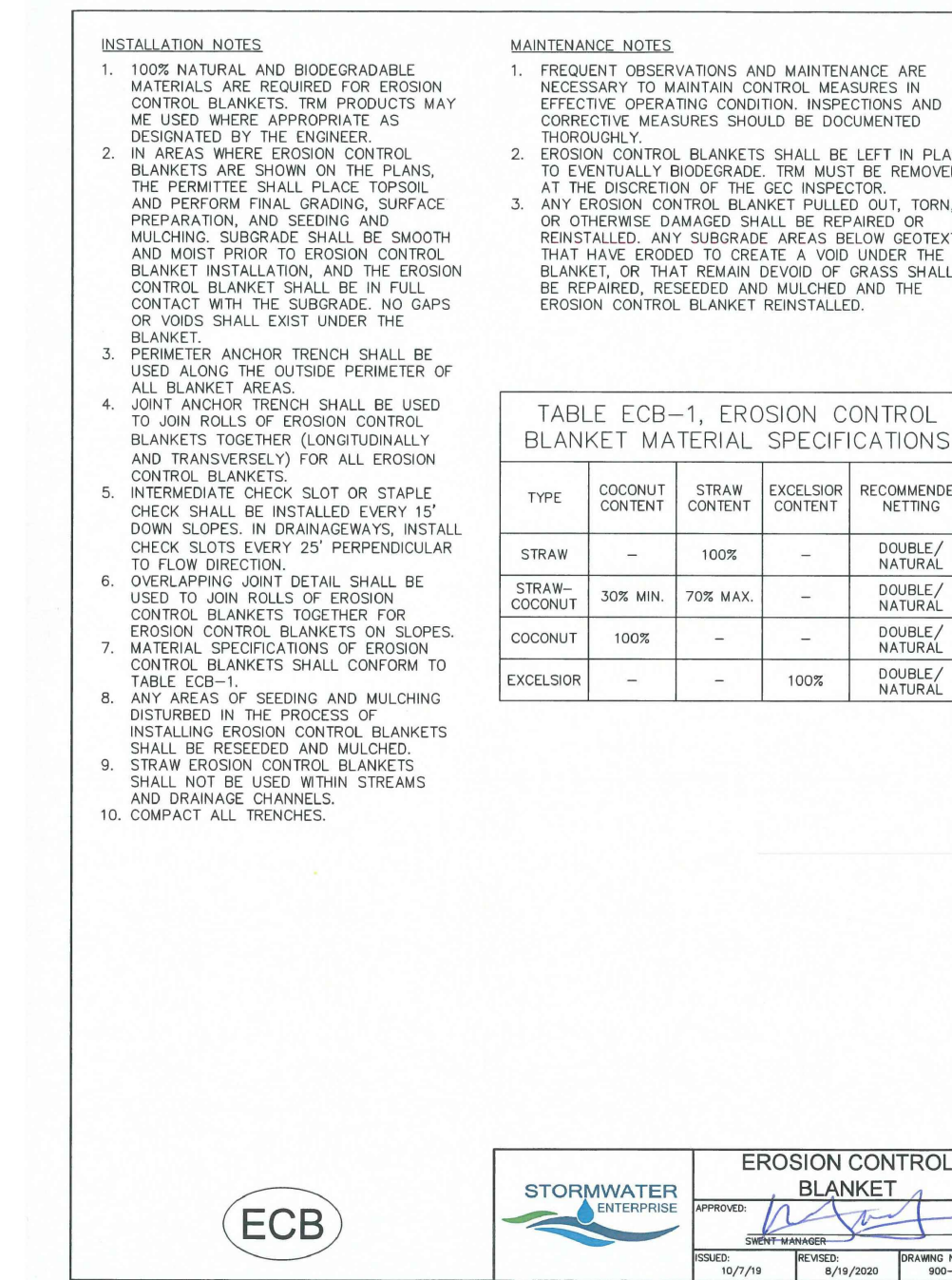
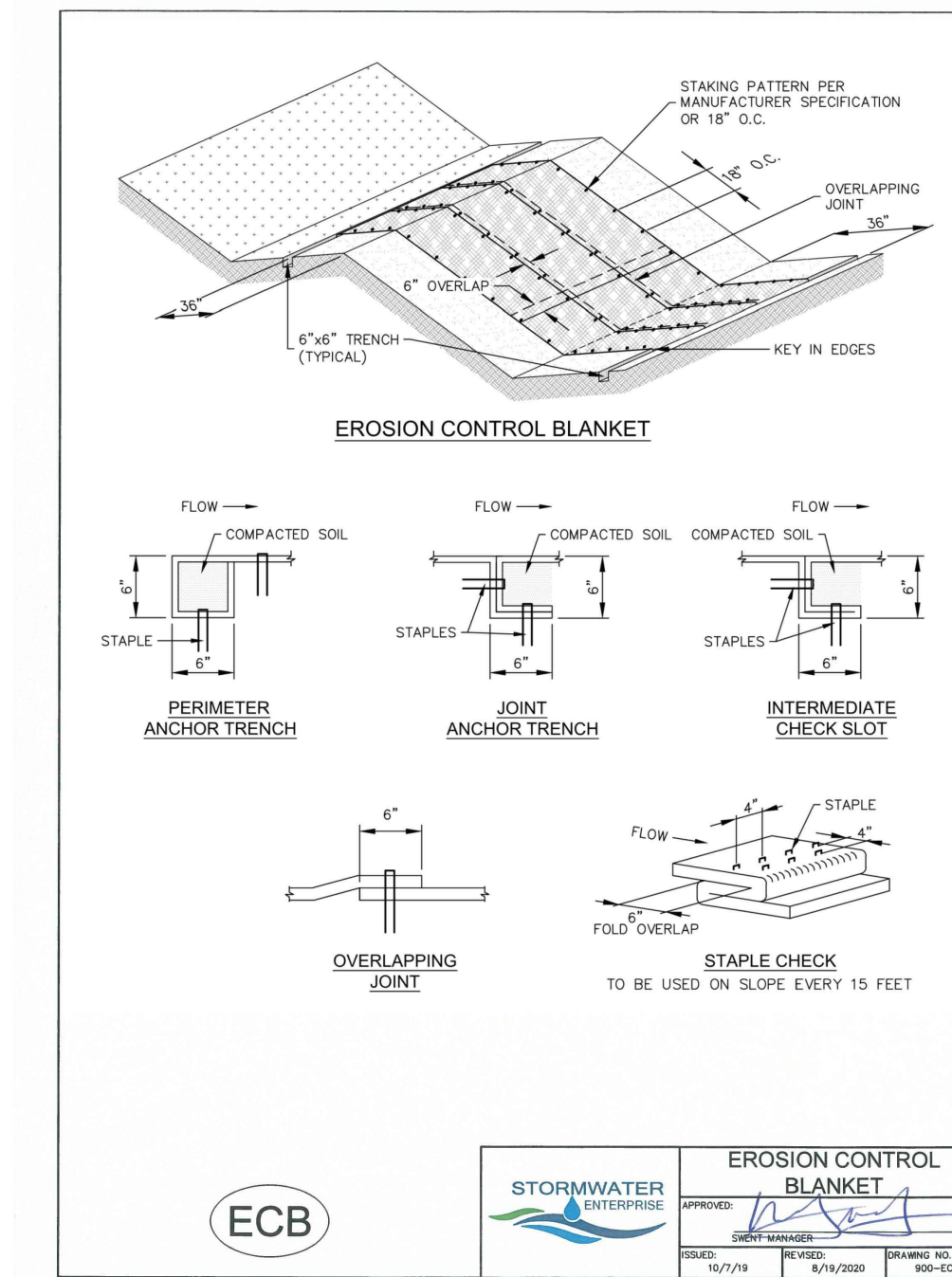
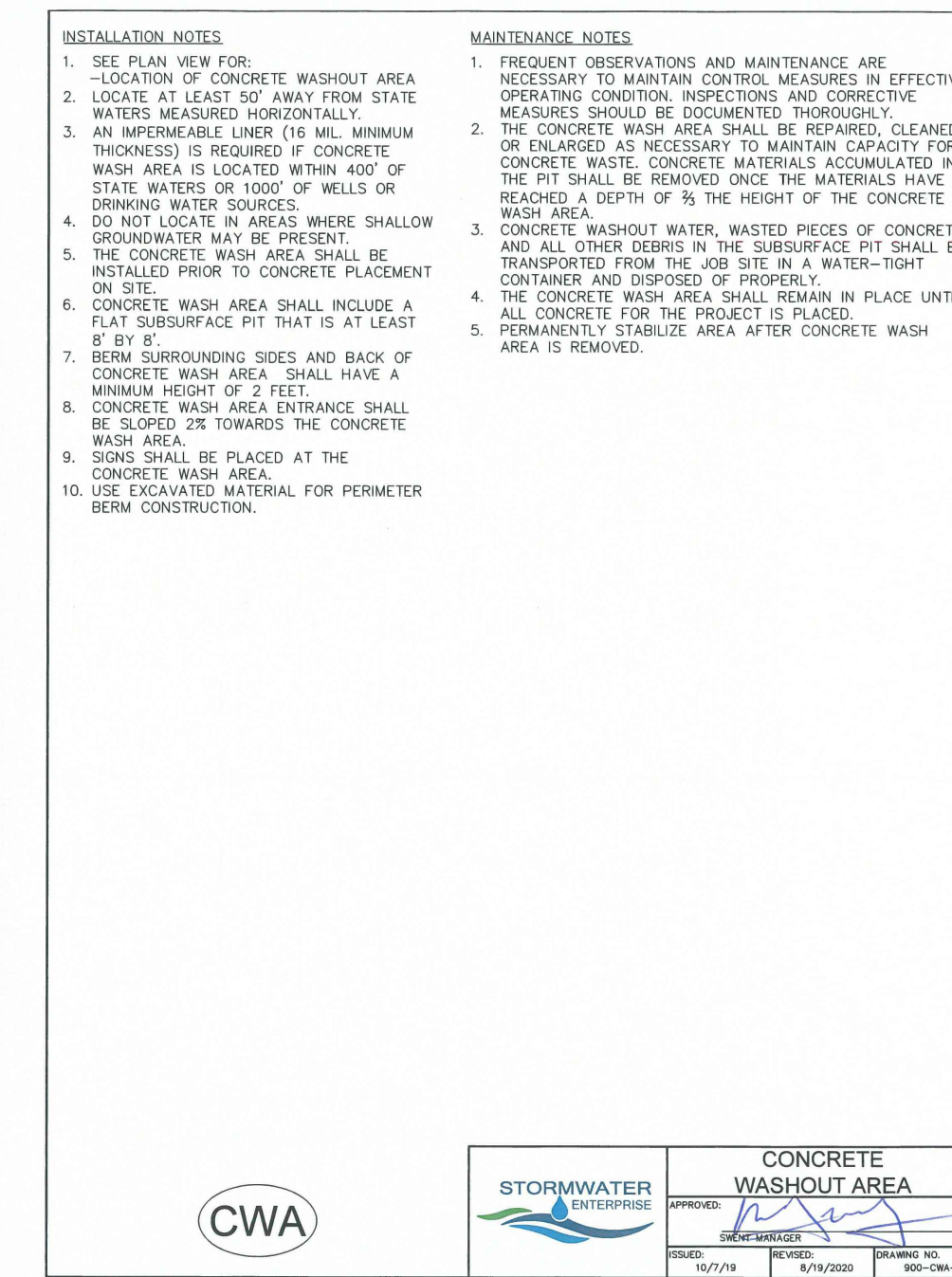
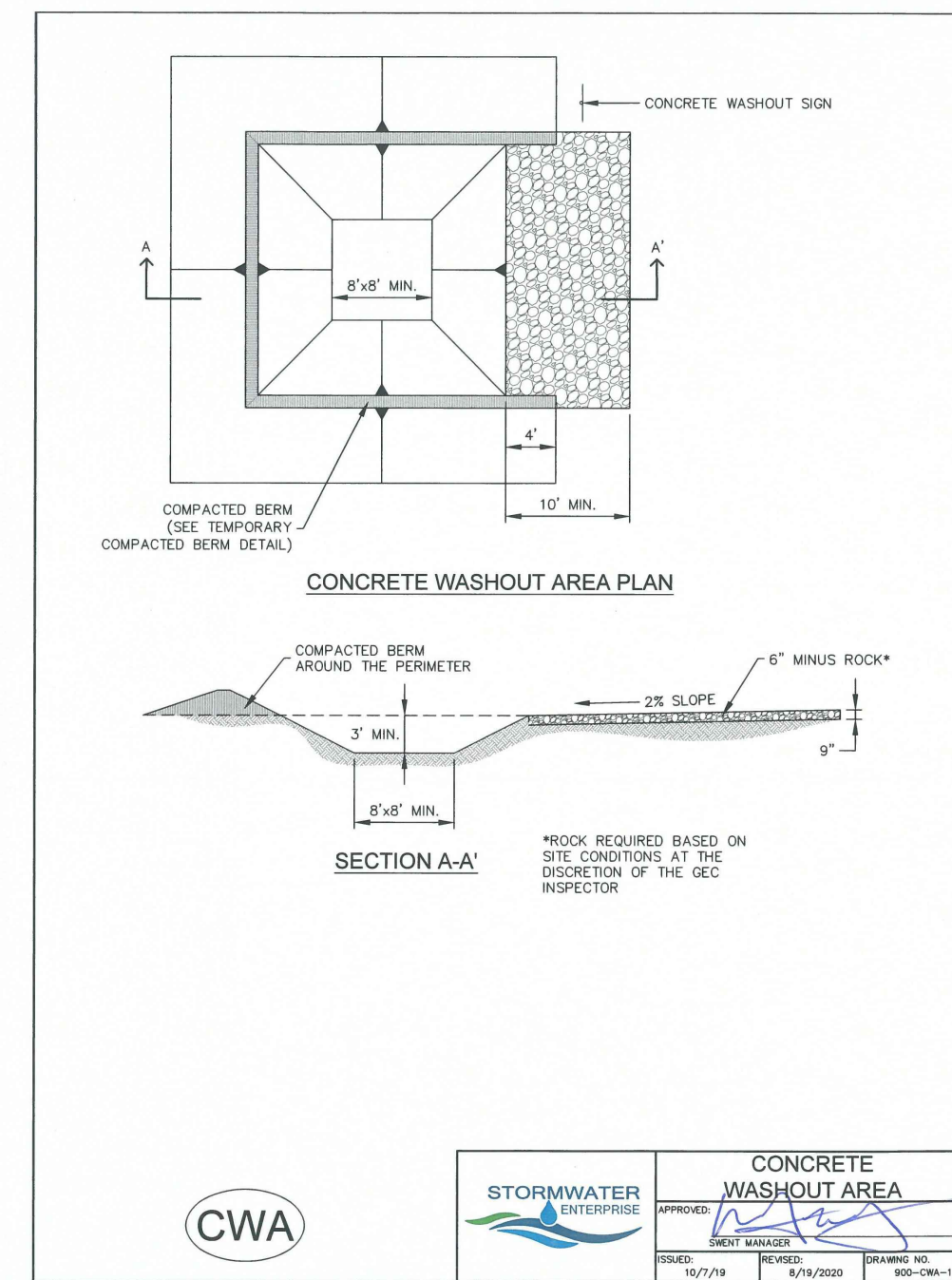
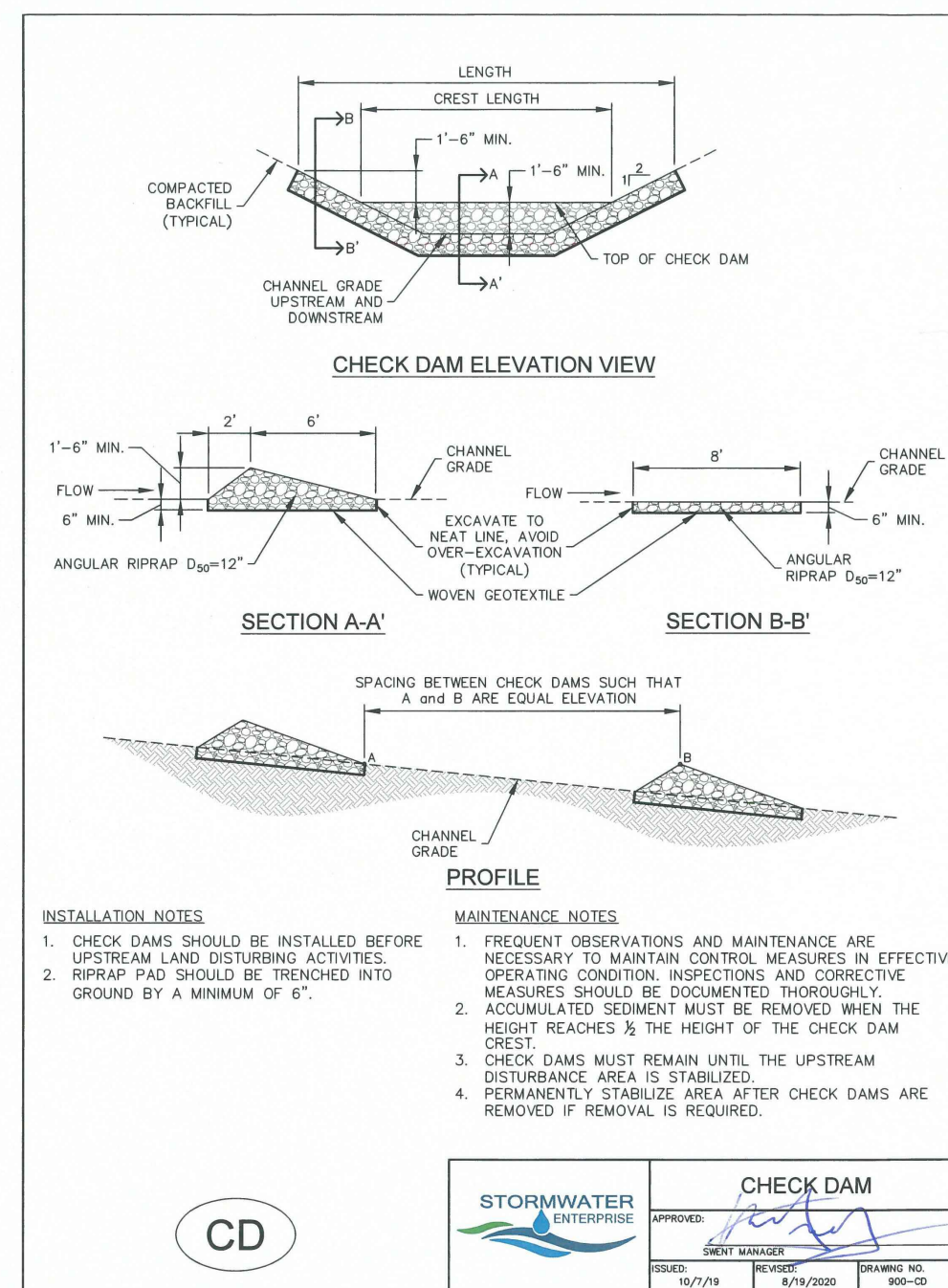
DRAWING SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

EROSION CONTROL
DETAILS

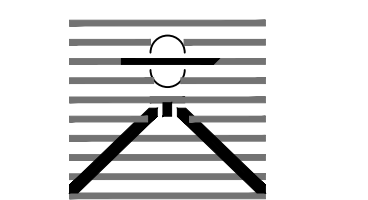
PROJECT NO. 21085-03CSCV
DRAWING NO.

ECDT

SHEET: 43 OF 47



PREPARED BY:



DREXEL, BARRELL & CO. Engineers • Surveyors 3 SOUTH 7TH STREET COLORADO SPRINGS, COLORADO 80905 CONTACT: TIM D. MCCONNELL, P.E. (719)260-4887 BOULDER • COLORADO SPRINGS • GREELEY

CLIENT:

MIDCO INVESTMENTS, LLC

P.O. BOX 60069 COLORADO SPRINGS, CO 80960 CONTACT: ROBERT C. IRWIN (719) 475-7474

CONSTRUCTION DOCUMENTS FOR:

HAVEN VALLEY (LETA DR.) BRADLEY RD/ALTURAS DR. SECURITY, EL PASO COUNTY, COLORADO

ISSUE	DATE
INITIAL ISSUE	3/15/22
LATEST ISSUE	7/27/23

DESIGNED BY:	SBN
DRAWN BY:	SBN
CHECKED BY:	TDM
FILE NAME:	21085-03ECDT

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

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

EROSION CONTROL DETAILS

PROJECT NO. 21085-03CSCV DRAWING NO.

ECDT

SHEET: 44 OF 47

TABLE SB-1, SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

UPSTREAM DRAINAGE AREA (ROUNDED TO NEAREST ACRE), (A _D)	Basin Bottom Width (W), (FT)	Spillway Crest Length (L), (FT)	Hole Diameter (D _H), (IN)
2	12"	2	1/4"
3	21	3	3/8"
4	33	4	1/2"
5	38	5	5/8"
6	43	6	3/4"
7	47	7	7/8"
8	51	8	1"
9	55	9	1 1/8"
10	59	10	1 1/4"
11	64	11	1 1/2"
12	67	12	1 3/4"
13	70	13	1 7/8"
14	73	14	2"
15	75	15	2 1/4"

- INSTALLATION NOTES**
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MEASURED AS LONG AS BOTTOM AREA IS NOT REDUCED.
 - EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES, AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE No. 200 SIEVE.
 - EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-698.
 - PIPE SCHEDULE 40 OR GREATER SHALL BE USED.
 - THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASINS FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES. DESIGN CALCULATIONS MUST BE APPROVED PRIOR TO IMPLEMENTATION.
- MAINTENANCE NOTES**
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN CONTROL MEASURE EFFECTIVENESS. TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E. TWO FEET BELOW SPILLWAY CREST).
 - SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED.
 - PERMANENTLY STABILIZE AREA AFTER SEDIMENT BASIN REMOVAL.

TEMPORARY SEDIMENT BASIN

STORMWATER ENTERPRISE

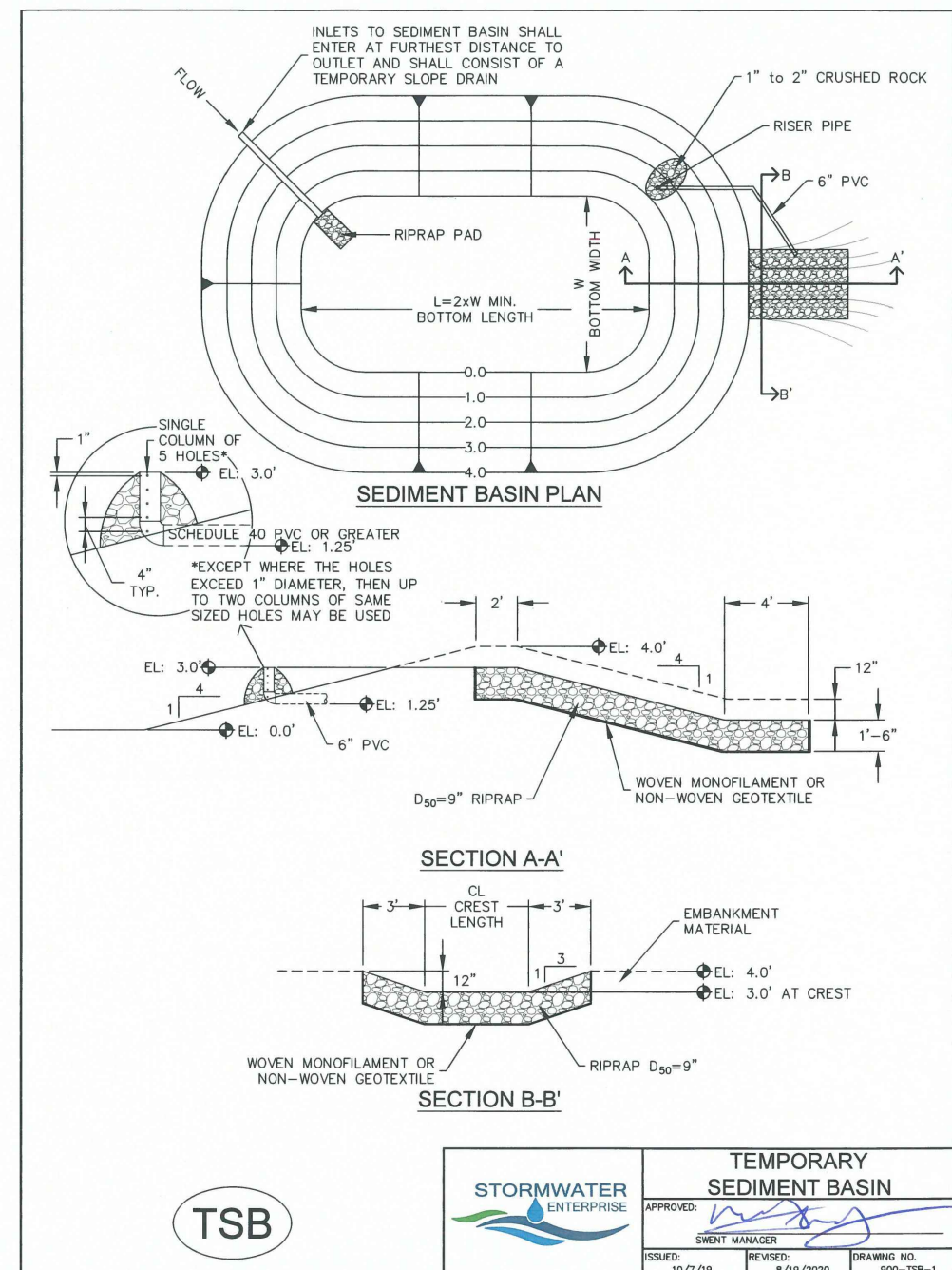
APPROVED: [Signature]

DATE: 10/7/23

SCALE: AS SHOWN

PROJECT NO. 21085-03CSCV

DRAWING NO. SB-1



TEMPORARY SEDIMENT BASIN

STORMWATER ENTERPRISE

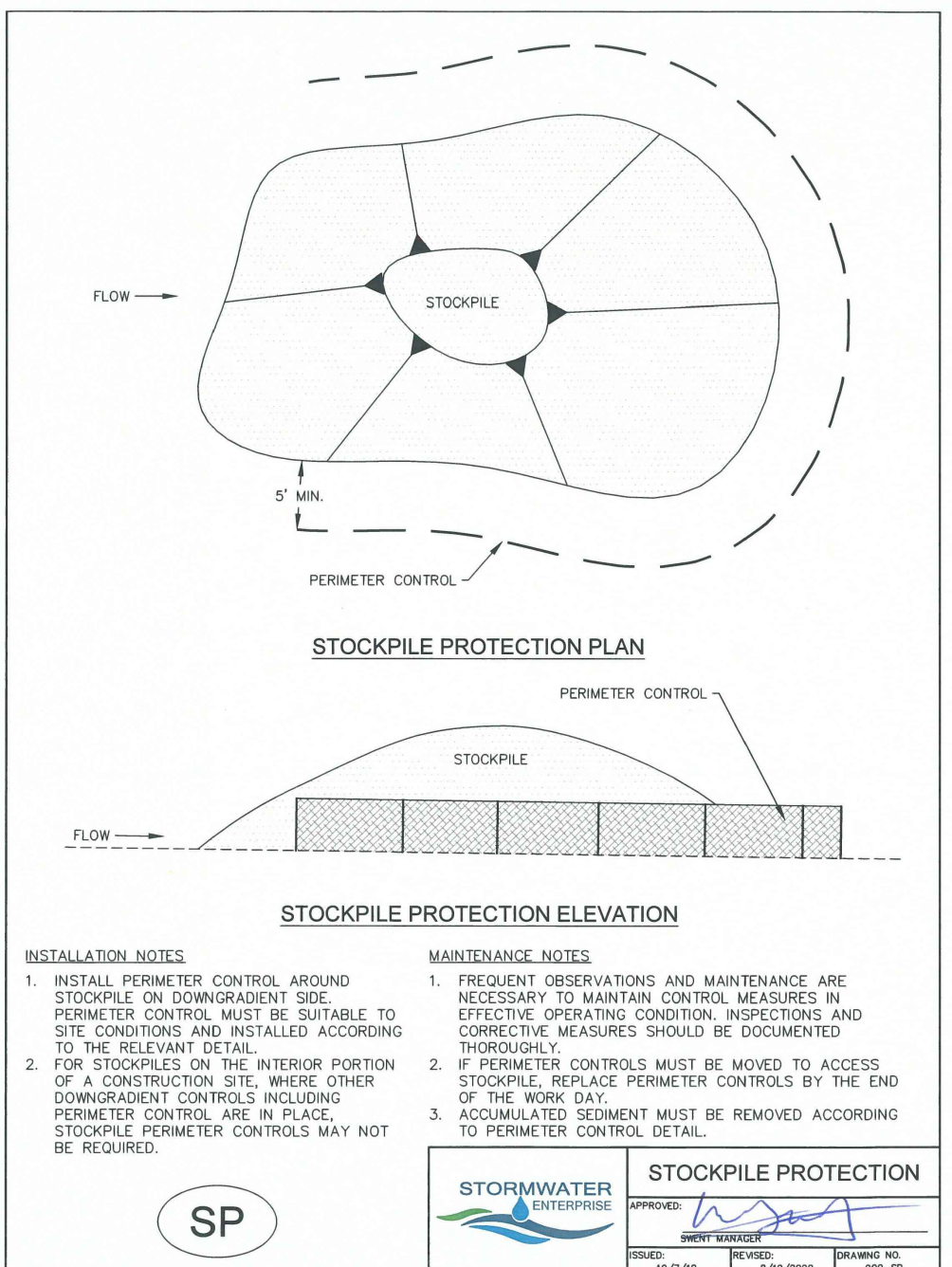
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DATE: 10/7/23

SCALE: AS SHOWN

PROJECT NO. 21085-03CSCV

DRAWING NO. TSB



STOCKPILE PROTECTION

STORMWATER ENTERPRISE

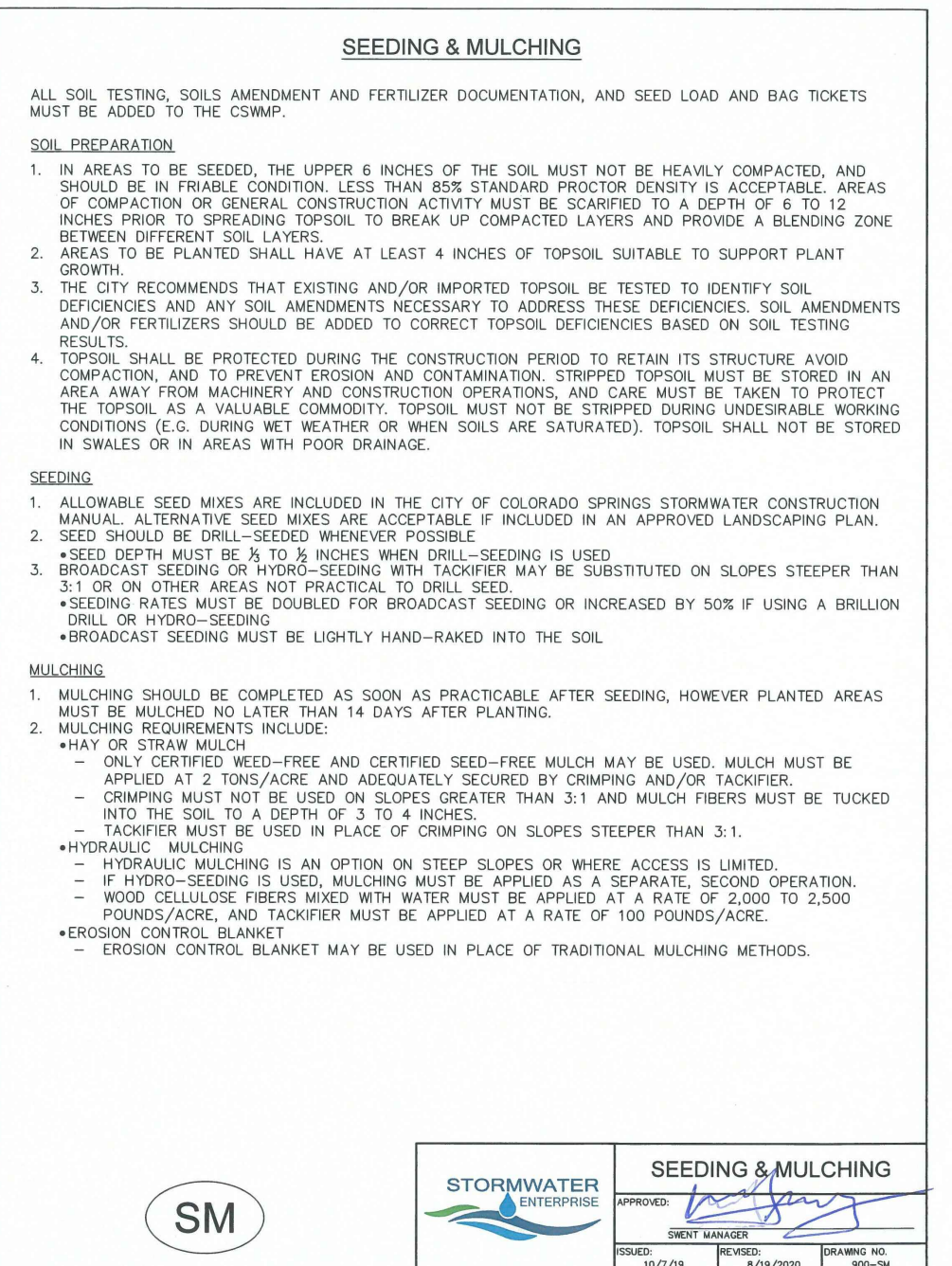
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DATE: 10/7/23

SCALE: AS SHOWN

PROJECT NO. 21085-03CSCV

DRAWING NO. SP



SEEDING & MULCHING

STORMWATER ENTERPRISE

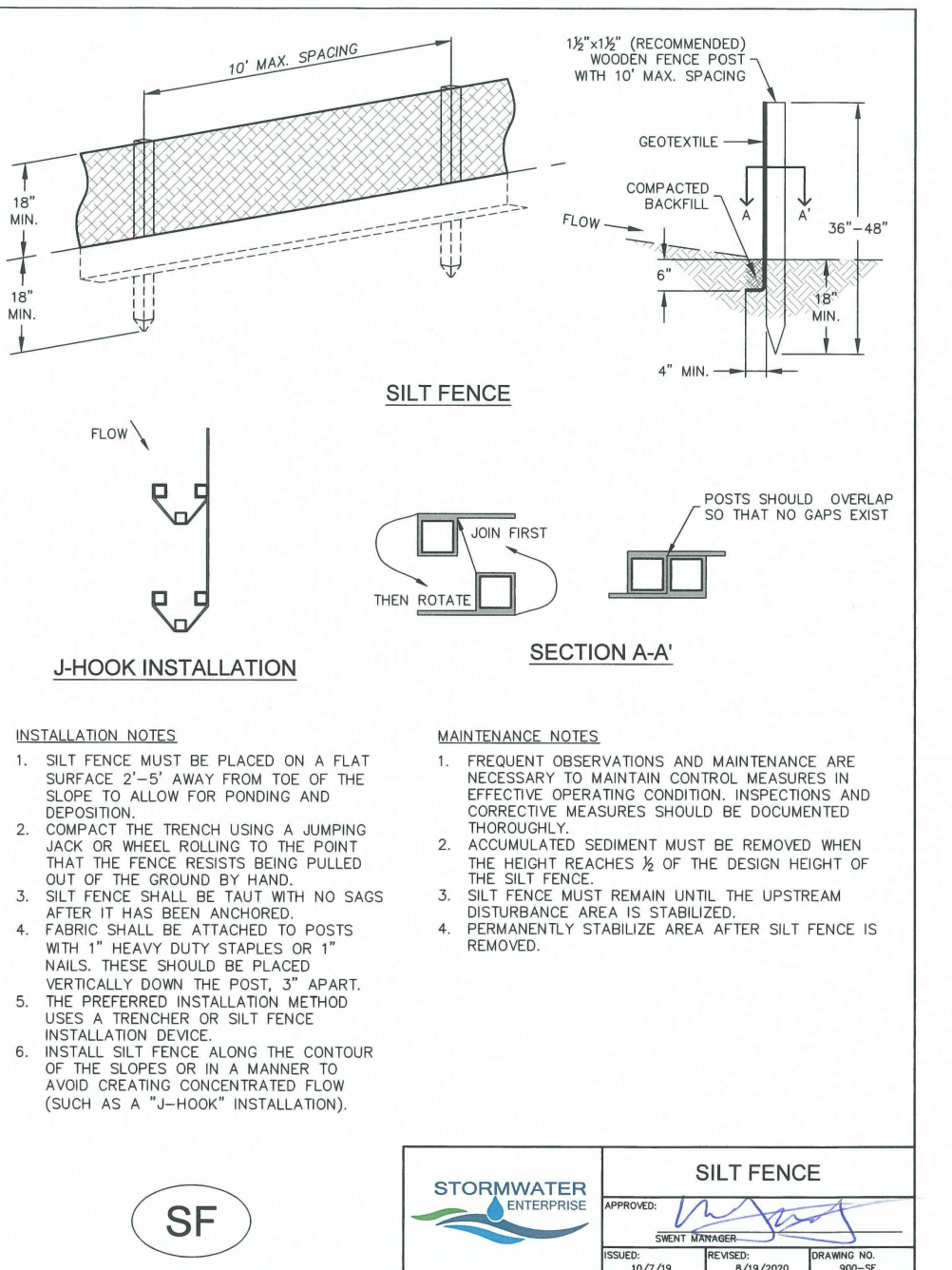
APPROVED: [Signature]

DATE: 10/7/23

SCALE: AS SHOWN

PROJECT NO. 21085-03CSCV

DRAWING NO. SM



SILT FENCE

STORMWATER ENTERPRISE

APPROVED: [Signature]

DATE: 10/7/23

SCALE: AS SHOWN

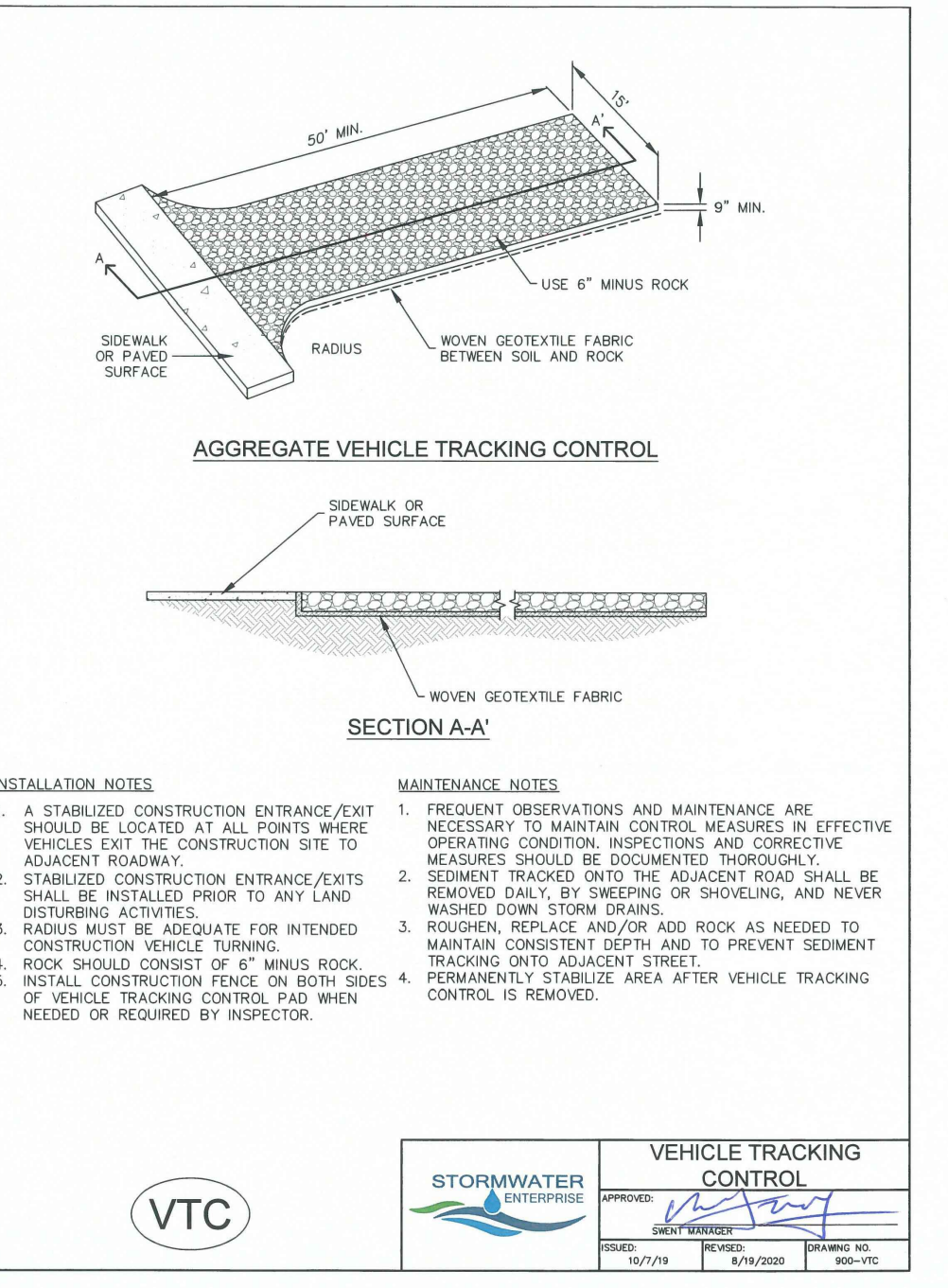
PROJECT NO. 21085-03CSCV

DRAWING NO. SF

SHOTGUN NATIVE GRASS SEED MIX

Mixture/Variety

- 20% Western Wheatgrass, Arriba
- 20% Big Bluestem, Kaw
- 10% Switchgrass, Blackwell
- 10% Green Needlegrass, Lodorn
- 10% Sideoats Grama, El Reno
- 10% Little Bluestem, Camper
- 10% Prairie Sandreed, Goshen
- 10% Yellow Indiangrass, Cheyenne



VEHICLE TRACKING CONTROL

STORMWATER ENTERPRISE

APPROVED: [Signature]

DATE: 10/7/23

SCALE: AS SHOWN

PROJECT NO. 21085-03CSCV

DRAWING NO. VTC



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