

STANDARD NOTES FOR EL PASO COUNTY GRADING & EROSION PLAN:

- 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...
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...

CHALLENGER HOMES
FALCON HIGHLANDS SOUTH
SITUATED IN SECTION 12, TOWNSHIP 13 SOUTH,
RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN,
COUNTY OF EL PASO, STATE OF COLORADO
GRADING & EROSION CONTROL PLANS

PCD-ENGINEERING REVIEW COMMENTS
IN BLUE BOXES WITH BLUE TEXT

EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

811 Know what's below. Call before you dig. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CONTRACTOR...



VICINITY MAP
1" = 1,000'

LEGAL DESCRIPTION:

A PORTION OF SECTION 12, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO.

PROJECT DESCRIPTION:

378 SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT OVER 125.5 ACRES.

FLOODPLAIN STATEMENT:

THE SUBJECT PROPERTY IS NOT LOCATED IN A DESIGNATED FLOODPLAIN AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP 08041C0561G, EFFECTIVE DECEMBER 7, 2018.

NOTE:

DETENTION AND WATER QUALITY ARE PROVIDED IN THE EXISTING DOWNSTREAM WATER QUALITY AND DETENTION POND FACILITIES, POND 1, 2 & WU, LOCATED EAST OF THE PROPOSED DEVELOPMENT, NORTHWEST OF HIGHWAY 24.

DESCRIPTION OF CONSTRUCTION ACTIVITIES:

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:

JANUARY 2023

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED:

OCTOBER 2023

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

APPROXIMATELY 115 ACRES

RECEIVING WATERS:

ULTIMATE RECEIVING WATER IS SAND CREEK DRAINAGE BASIN AND FALCON DRAINAGE BASIN.

SOIL TYPE:

THE SITE IS UNDERLAIN BY BLAKELAND-FLUVAQUENTIC HAPLAQUOILS, HYDROLOGIC SOIL GROUP A.

OWNER:
CHALLENGER HOMES
8605 EXPLORER DRIVE
STE. 250
COLORADO SPRINGS, CO 80920
CONTACT: JIM BYERS

SURVEYOR:
ATWELL, LLC.
143 UNION BLVD.
STE. 700
LAKEWOOD, CO 80228
(303) 462-1100
CONTACT: KENNETH SCHRAMM

WOODMEN HILLS METROPOLITAN DISTRICT:

8046 EASTVILLE ROAD
FALCON, CO 80831
(719) 495-2500
CONTACT: RYAN MANGINO
CIVIL ENGINEER:
ATWELL, LLC.
143 UNION BLVD.,
SUITE 700
LAKEWOOD, CO 80228
(303) 462-1100
CONTACT: RICHARD LYON

EL PASO COUNTY:
3275 AKERS DRIVE
COLORADO SPRINGS, CO 80922
(719) 520-6460
CONTACT: ELIZABETH NILJKAMP

ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECT 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.

Richard Lyon 08/30/2022
ENGINEER OF RECORD SIGNATURE DATE
RICHARD D. LYON, PE

OWNER'S STATEMENT

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

Jim Byers 08/30/2022
OWNER SIGNATURE DATE
JIM BYERS

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.

COUNTY ENGINEER / ECM ADMINISTRATOR DATE
JOSHUA PALMER, P.E.

Table with 2 columns: SHEET NUMBER, SHEET TITLE. Rows include COVER, INITIAL GECP, INTERIM GECP, FINAL GECP, and DETAIL GECP.

GENERAL NOTES:

- 1. EXISTING VEGETATION OF SITE IS APPROXIMATELY 97.0 PERCENT CONSISTING OF NATIVE GRASSES AND WEEDS.
2. CONCLUSIONS FROM SOILS/GEOTECHNICAL REPORT AND GEOLOGIC HAZARDS REPORT INCORPORATED IN GRADING DESIGN (SLOPES, EMBANKMENTS, MATERIALS, MITIGATION, ETC.)
3. THERE ARE NO LOCATIONS OF ANY DEDICATED ASPHALT / CONCRETE BATCH PLANTS.

BENCHMARK:

ELEVATIONS ARE BASED UPON SW COR SEC. 12, T13S, R65W, 6TH PM, FND. 3.25" ALUM. CAP. (ELEVATION: 6810.43=NAVD88).

BASIS OF BEARINGS:

BEARINGS ARE BASED UPON THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, MONUMENTED AT THE SOUTH END BY A FOUND-3/4" ALUMINUM CAP STAMPED "AZTEC CONSULTANTS PL'S 38256" AND AT THE NORTH END BY A FOUND 3-1/4" ALUMINUM CAP STAMPED "PLS 4842".

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JIM BYERS
CHALLENGER HOMES
FALCON HIGHLANDS SOUTH
EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
COVER

DATE 8/31/2022

1st SUBMITTAL TO EPC 07/29/2022 - RDL

Table with 2 columns: NO., REVISIONS

COUNTY FILE NO.: PUDSP-22-005

DR. JD CH.

P.M. RDL

JOB 21005234

SHEET NO. 1

1

CAD FILE: Z:\0805234-GECP-COVER-SHEET.DWG

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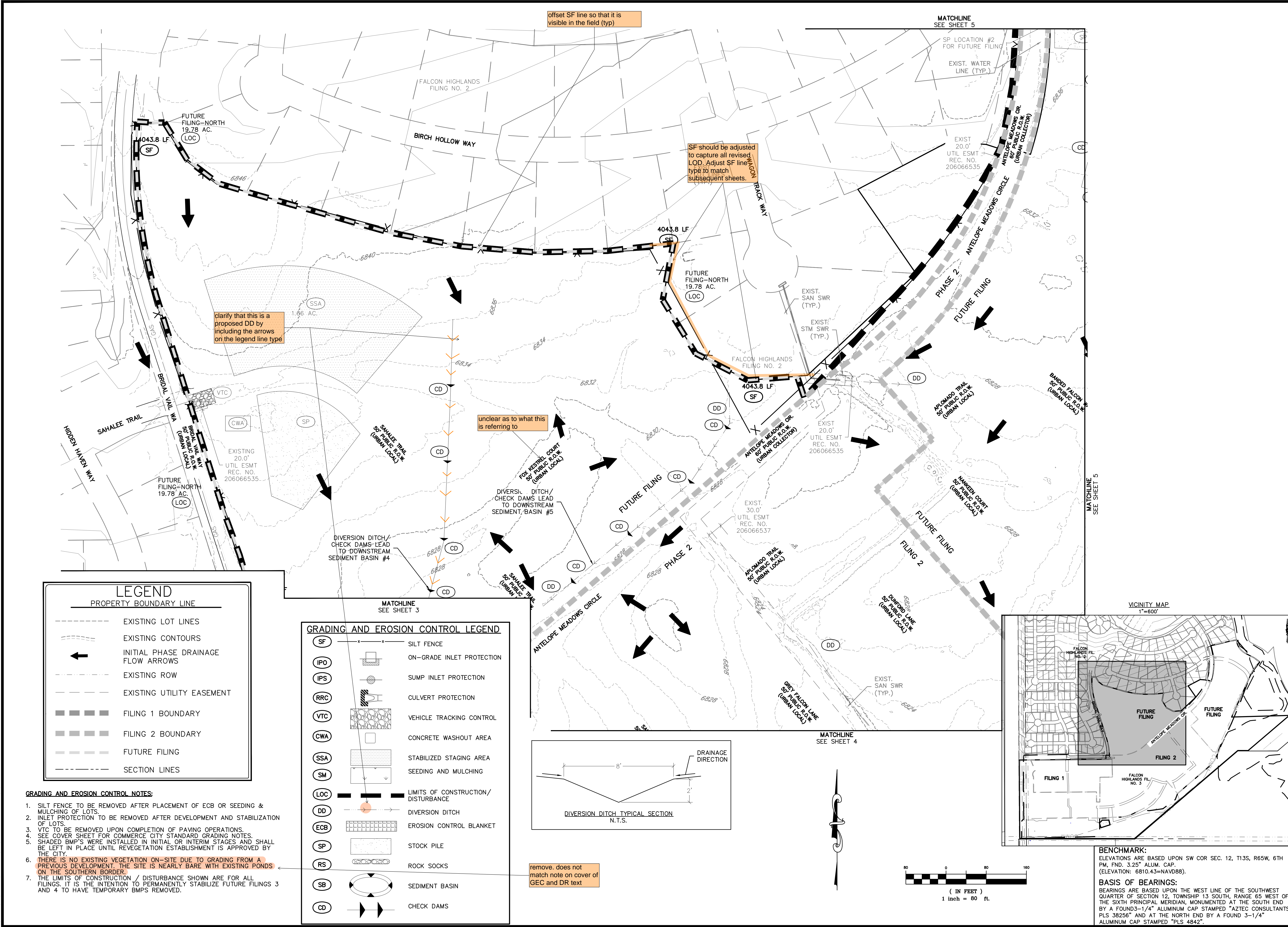
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GRADING AND EROSION CONTROL PLAN
INITIAL GECIP

CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
SUBMITTAL TO EPIC: 07/29/2022 - RDL
REVISIONS:

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH
P.M. RDL
JOB: 21005234
SHEET NO.: 2



offset SF line so that it is visible in the field (typ)

SF should be adjusted to capture all revised LOD. Adjust SF line type to match subsequent sheets.

clarify that this is a proposed DD by including the arrows on the legend line type

unclear as to what this is referring to

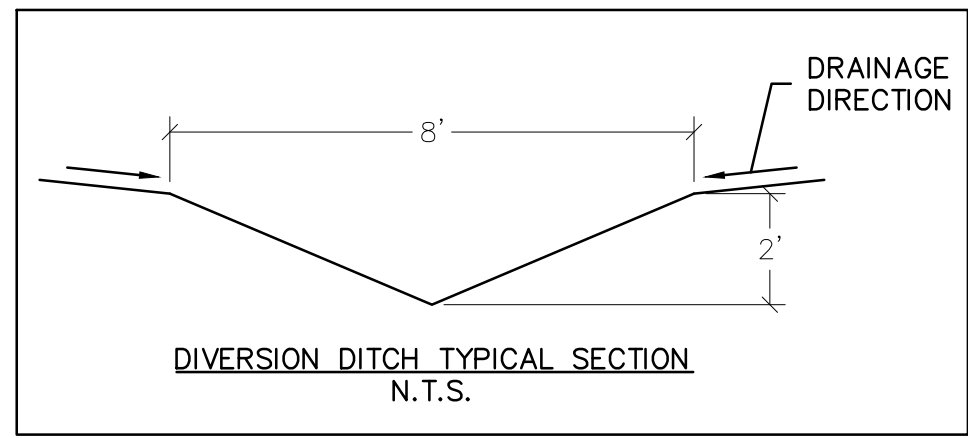
remove, does not match note on cover of GEC and DR text

LEGEND

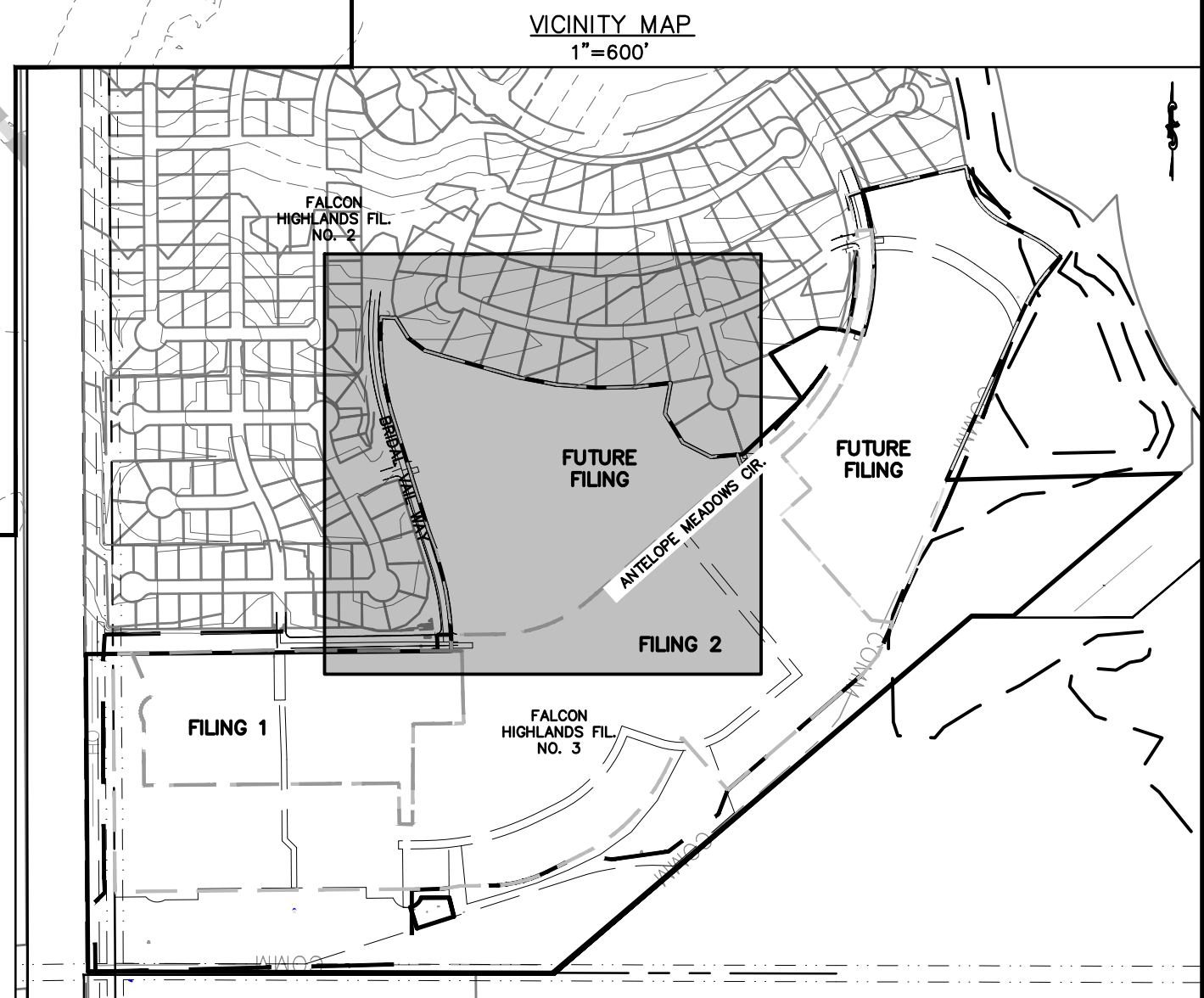
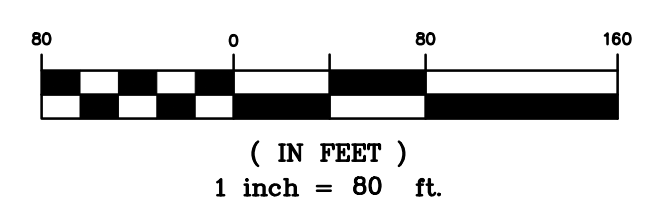
PROPERTY BOUNDARY LINE	
---	EXISTING LOT LINES
---	EXISTING CONTOURS
←	INITIAL PHASE DRAINAGE FLOW ARROWS
---	EXISTING ROW
---	EXISTING UTILITY EASEMENT
█	FILING 1 BOUNDARY
█	FILING 2 BOUNDARY
---	FUTURE FILING
---	SECTION LINES

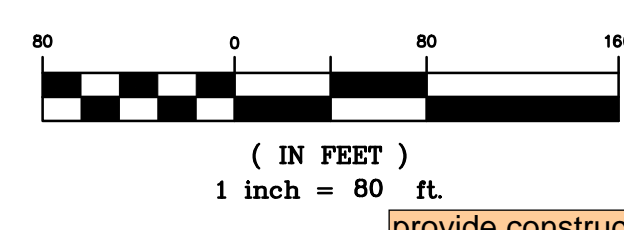
GRADING AND EROSION CONTROL LEGEND

(SF)	SILT FENCE
(IPO)	ON-GRADE INLET PROTECTION
(IPS)	SUMP INLET PROTECTION
(RRC)	CULVERT PROTECTION
(VTC)	VEHICLE TRACKING CONTROL
(CWA)	CONCRETE WASHOUT AREA
(SSA)	STABILIZED STAGING AREA
(SM)	SEEDING AND MULCHING
(LOC)	LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)	DIVERSION DITCH
(ECB)	EROSION CONTROL BLANKET
(SP)	STOCK PILE
(RS)	ROCK SOCKS
(SB)	SEDIMENT BASIN
(CD)	CHECK DAMS



- GRADING AND EROSION CONTROL NOTES:**
- SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS.
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 - SEE COVER SHEET FOR COMMERCE CITY STANDARD GRADING NOTES.
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 - THERE IS NO EXISTING VEGETATION ON-SITE DUE TO GRADING FROM A PREVIOUS DEVELOPMENT. THE SITE IS NEARLY BARE WITH EXISTING PONDS ON THE SOUTHERN BORDER.
 - THE LIMITS OF CONSTRUCTION / DISTURBANCE SHOWN ARE FOR ALL FILINGS. IT IS THE INTENTION TO PERMANENTLY STABILIZE FUTURE FILINGS 3 AND 4 TO HAVE TEMPORARY BMP'S REMOVED.





provide construction fencing, barricades, and/or signage at access points not to be used for construction.

where will this TSB discharge to? show contours, location of spillway and discharge pipe.

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adjust match line to show all of the TSB

stormwater from this grading area should be treated via a TSB prior to entering the existing pond.

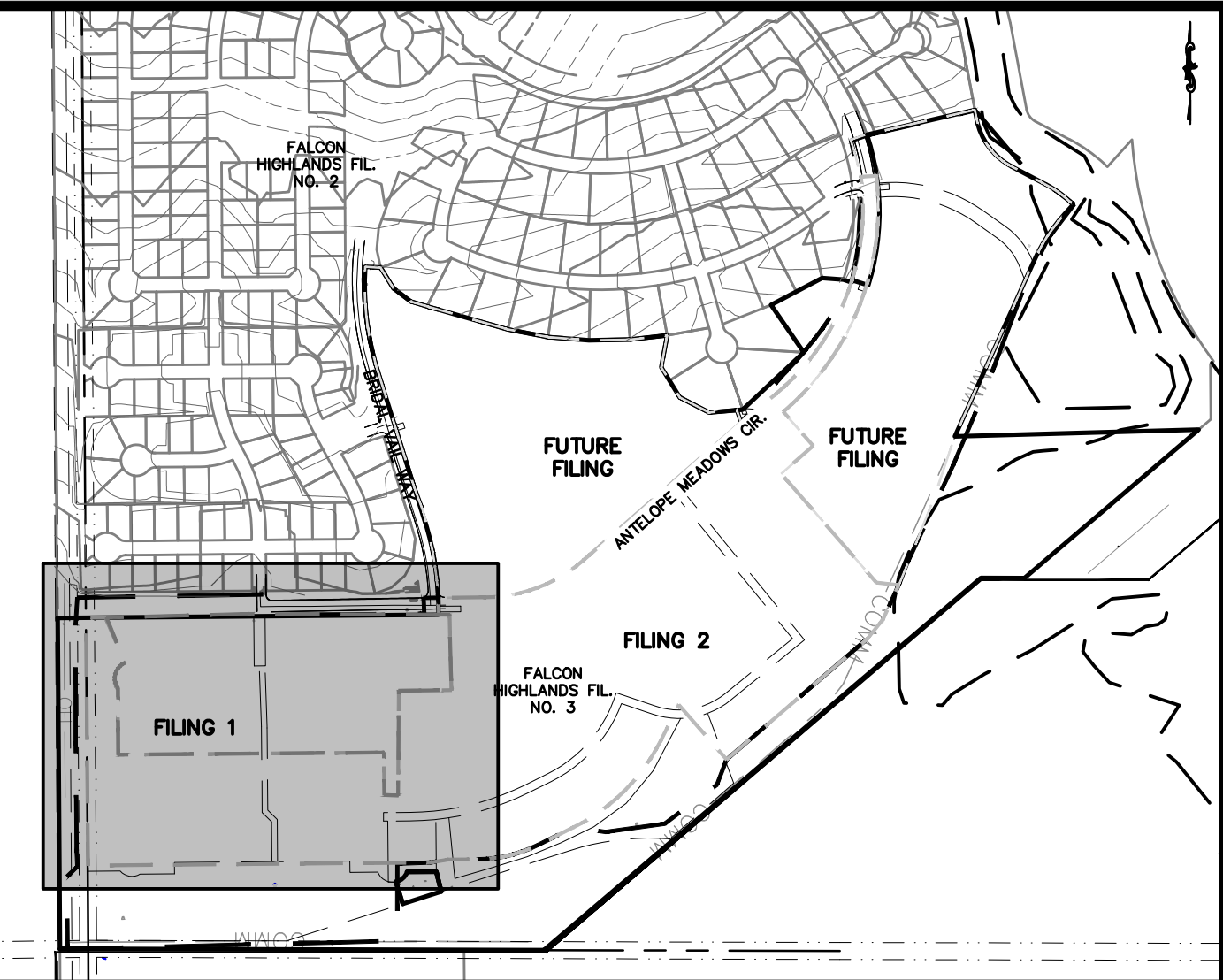
show all existing pond features (inlet, trickle channel, forebay, spillway, etc.)

OWNER: WALTON COLORADO LLC
TAX NO. 5300000716
SIGNAGE TO BE INSTALLED PROHIBITING ACCESS FOR CONSTRUCTION

OWNER: PUBLIC SERVICE CO OF COLORADO
TAX NO. 5300000091

OWNER: FALCON HIGHLANDS METRO DISTRICT
TAX NO. 5300000574

OWNER: H2O SUB BLR LLC
TAX NO. 5313000103



VICINITY MAP
1"=600'

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GRADING AND EROSION CONTROL LEGEND

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LEGEND

---	PROPERTY BOUNDARY LINE
---	EXISTING LOT LINES
---	EXISTING CONTOURS
←	INITIAL PHASE DRAINAGE FLOW ARROWS
---	EXISTING ROW
---	EXISTING UTILITY EASEMENT
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GRADING AND EROSION CONTROL PLAN
INITIAL GPCP

CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
A 1st SUBMITTAL TO EPIC 07/29/2022 - RDL

REVISIONS

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO. 3



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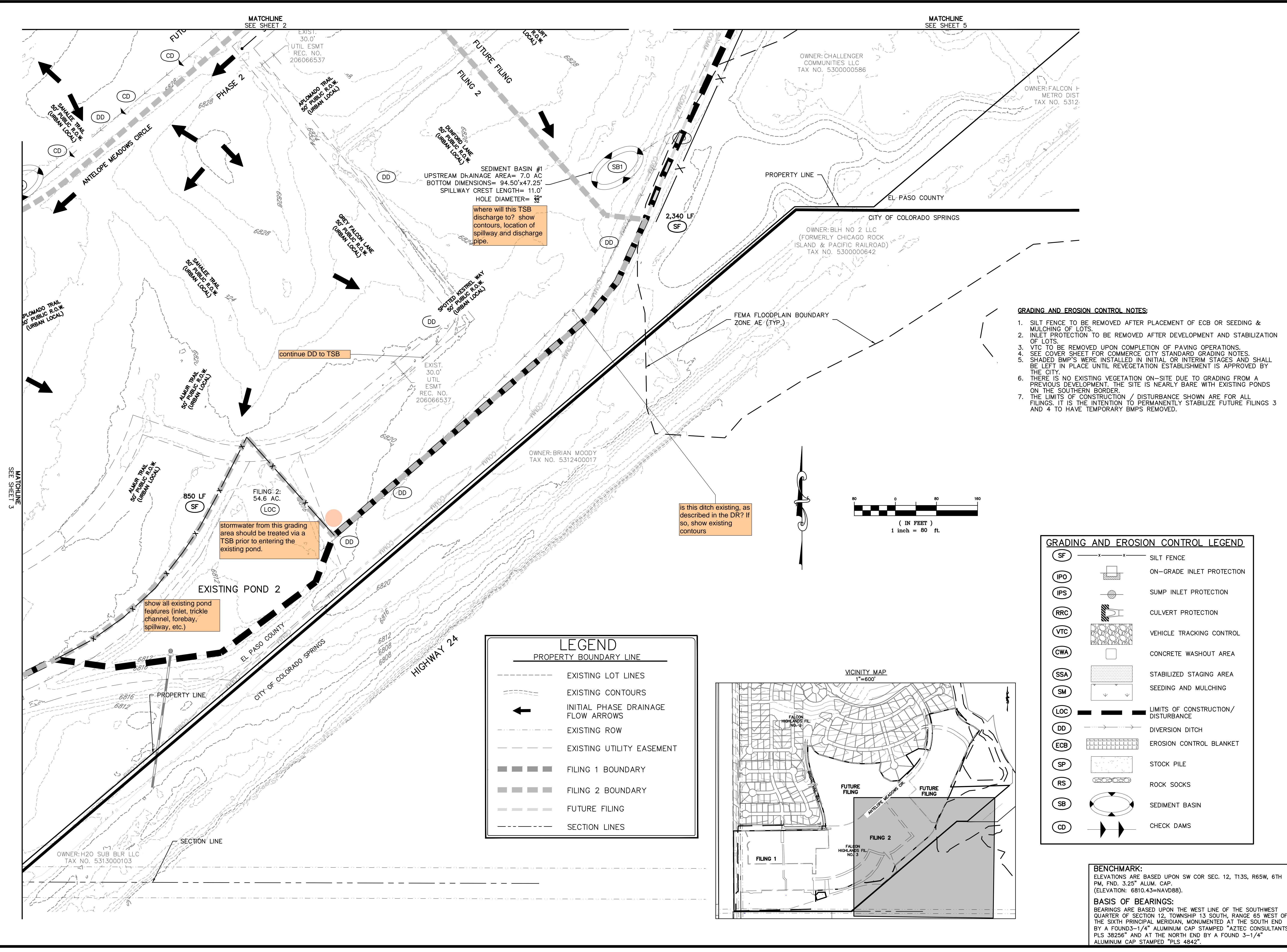
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REVISIONS:
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 SHEET NO.: 4



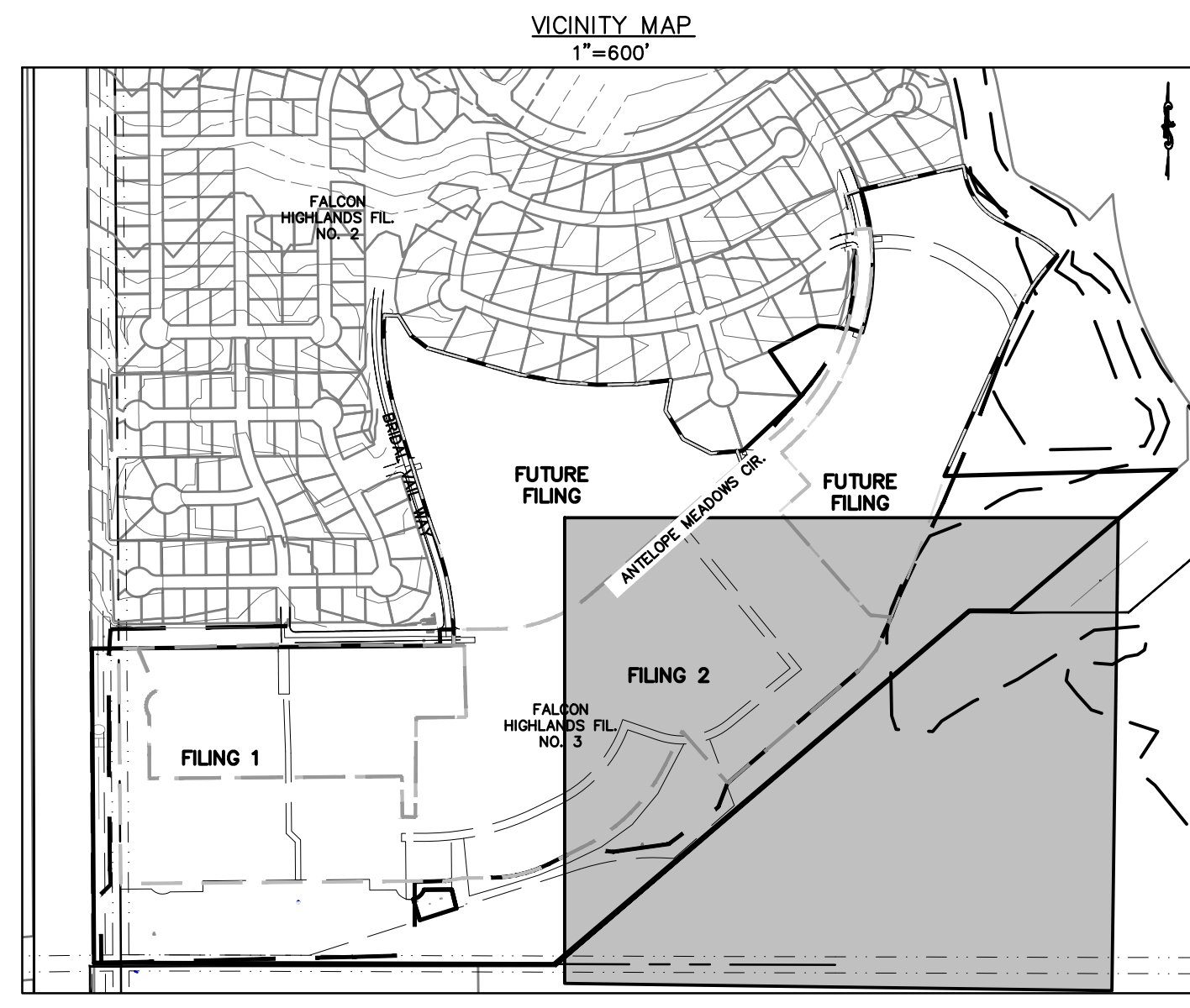
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GRADING AND EROSION CONTROL LEGEND

(SF)	X X	SILT FENCE
(IPO)	[Symbol]	ON-GRADE INLET PROTECTION
(IPS)	[Symbol]	SUMP INLET PROTECTION
(RRC)	[Symbol]	CULVERT PROTECTION
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(CD)	[Symbol]	CHECK DAMS

LEGEND
 PROPERTY BOUNDARY LINE

[Symbol]	EXISTING LOT LINES
[Symbol]	EXISTING CONTOURS
[Symbol]	INITIAL PHASE DRAINAGE FLOW ARROWS
[Symbol]	EXISTING ROW
[Symbol]	EXISTING UTILITY EASEMENT
[Symbol]	FILING 1 BOUNDARY
[Symbol]	FILING 2 BOUNDARY
[Symbol]	FUTURE FILING
[Symbol]	SECTION LINES



SEDIMENT BASIN #1
 UPSTREAM DRAINAGE AREA= 7.0 AC
 BOTTOM DIMENSIONS= 94.50'x47.25'
 SPILLWAY CREST LENGTH= 11.0'
 HOLE DIAMETER= 36"

where will this TSB discharge to? show contours, location of spillway and discharge pipe.

stormwater from this grading area should be treated via a TSB prior to entering the existing pond.

show all existing pond features (inlet, trickle channel, forebay, spillway, etc.)

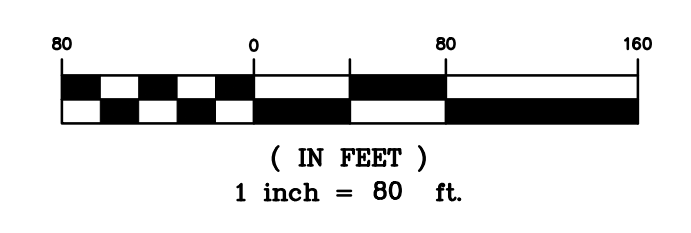
is this ditch existing, as described in the DR? If so, show existing contours

continue DD to TSB

MATCHLINE 3
 SEE SHEET 3

MATCHLINE
 SEE SHEET 2

MATCHLINE
 SEE SHEET 5



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GRADING AND EROSION CONTROL LEGEND

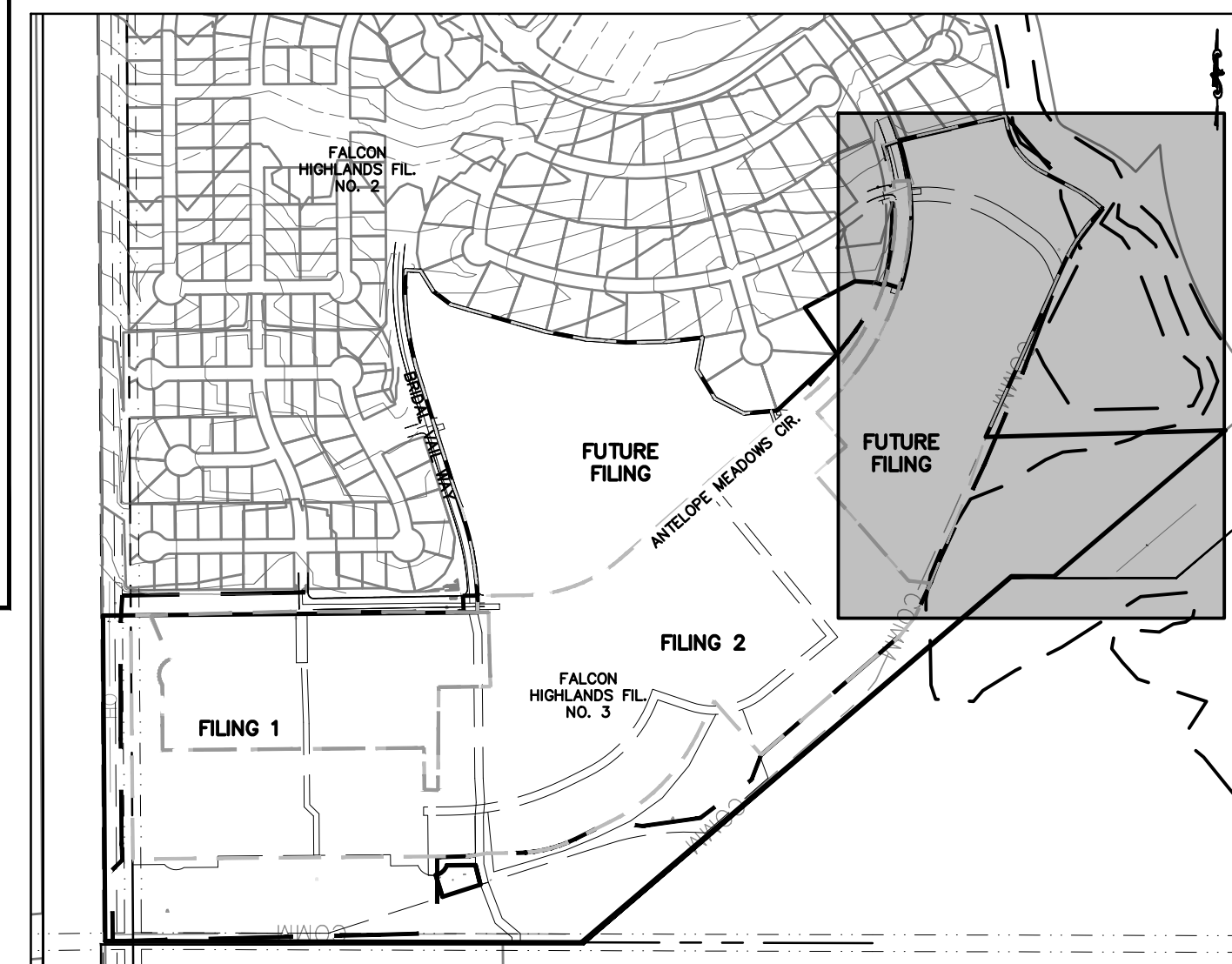
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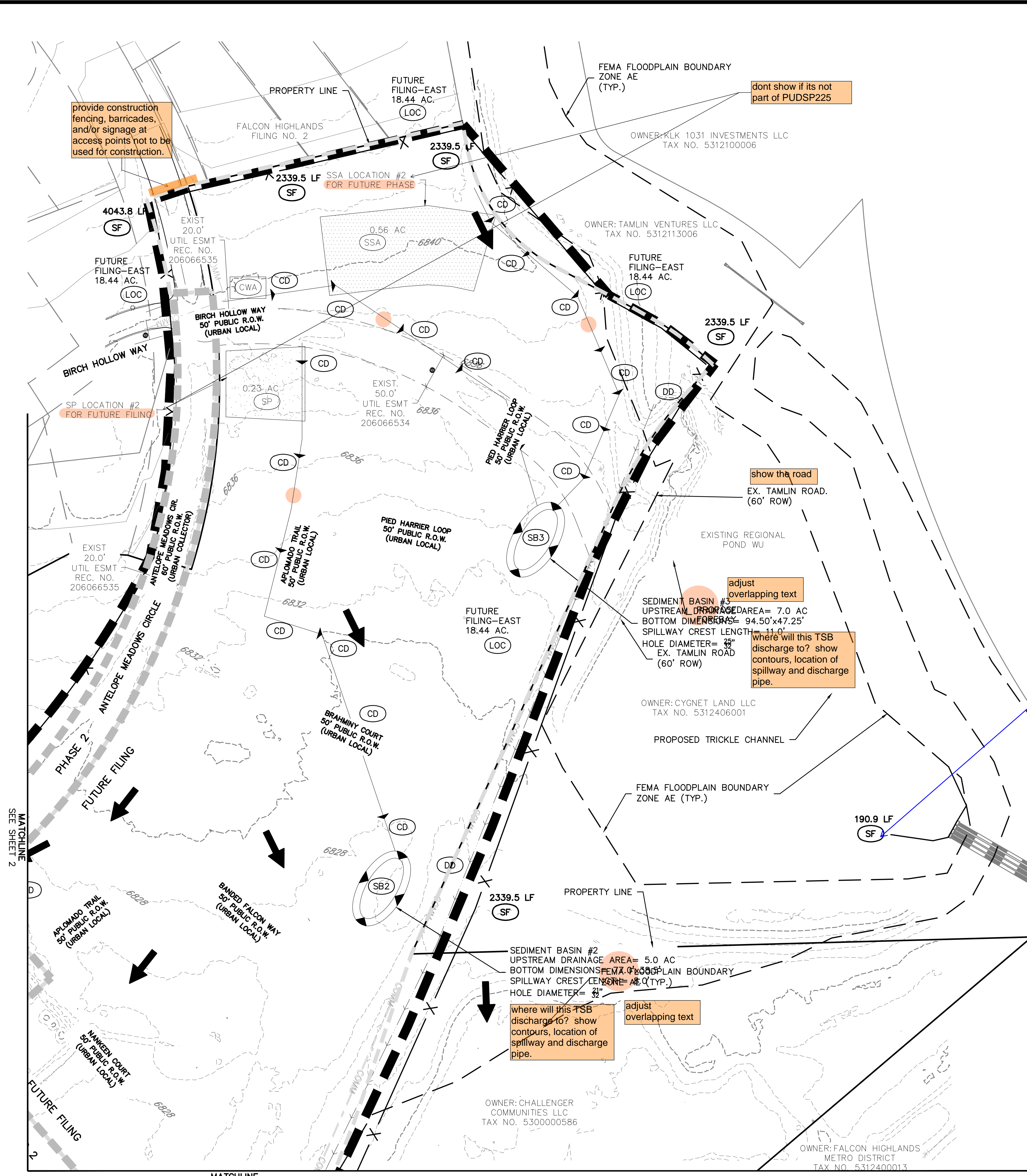
---	PROPERTY BOUNDARY LINE
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BENCHMARK:
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VICINITY MAP
1"=600'



MATCHLINE SEE SHEET 4

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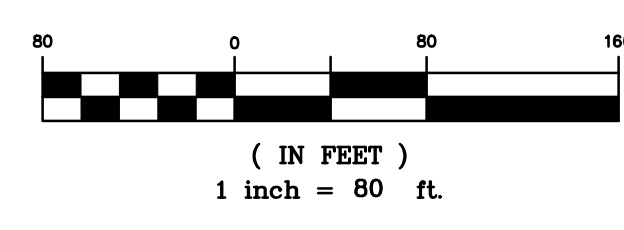
CHALLENGER HOMES
8605 EXPLORER DRIVE
SUITE 250
COLORADO SPRINGS, CO 80920
719-598-5192
JIM BYERS

CHALLENGER HOMES
FALCON HIGHLANDS SOUTH
EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
INITIAL GECP

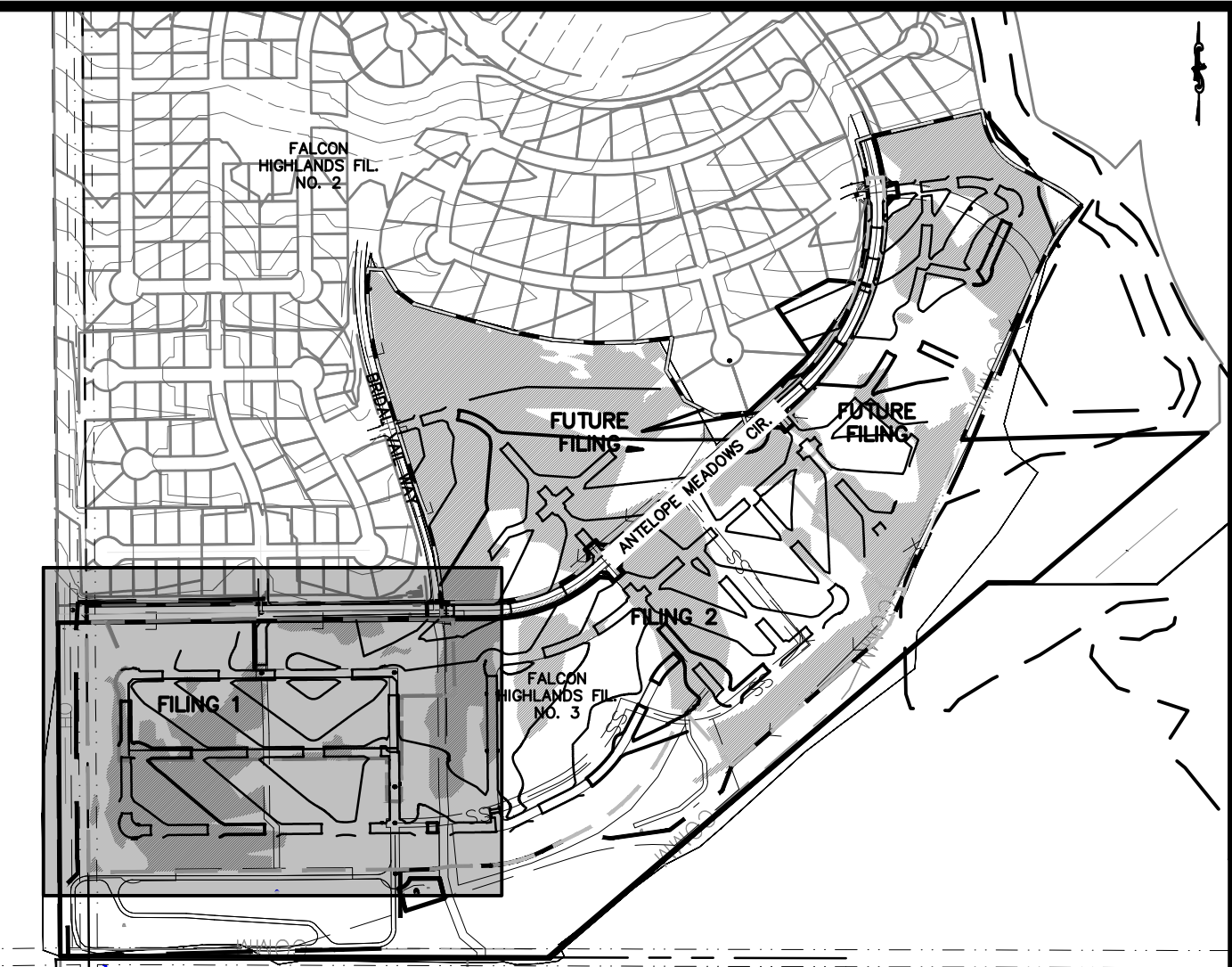
CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
A 1st SUBMITTAL TO EPIC
07/29/2022 - RDL

REVISIONS

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO. 5



MATCHLINE
SEE SHEET 6



811
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LEGEND

	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS

some of these arrows seem to be pointing in the wrong direction

GRADING AND EROSION CONTROL NOTES:

- SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS.
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please match interim and final plans to the same order as the initial sheets

GRADING AND EROSION CONTROL LEGEND

(SSA)		STABILIZED STAGING AREA
(SM)		SEEDING AND MULCHING
(LOC)		LIMITS OF CONSTRUCTION/DISTURBANCE
(DD)		DIVERSION DITCH
(ECB)		EROSION CONTROL BLANKET
(SP)		STOCK PILE
(RS)		ROCK SOCKS
(SB)		SEDIMENT BASIN
(CD)		CHECK DAMS

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CLIENT: CHALLENGER HOMES
FALCON HIGHLANDS SOUTH EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN INTERIM GECP

DATE: 8/31/2022
A 1st SUBMITTAL TO EPIC 07/29/2022 - RDL

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO. 6

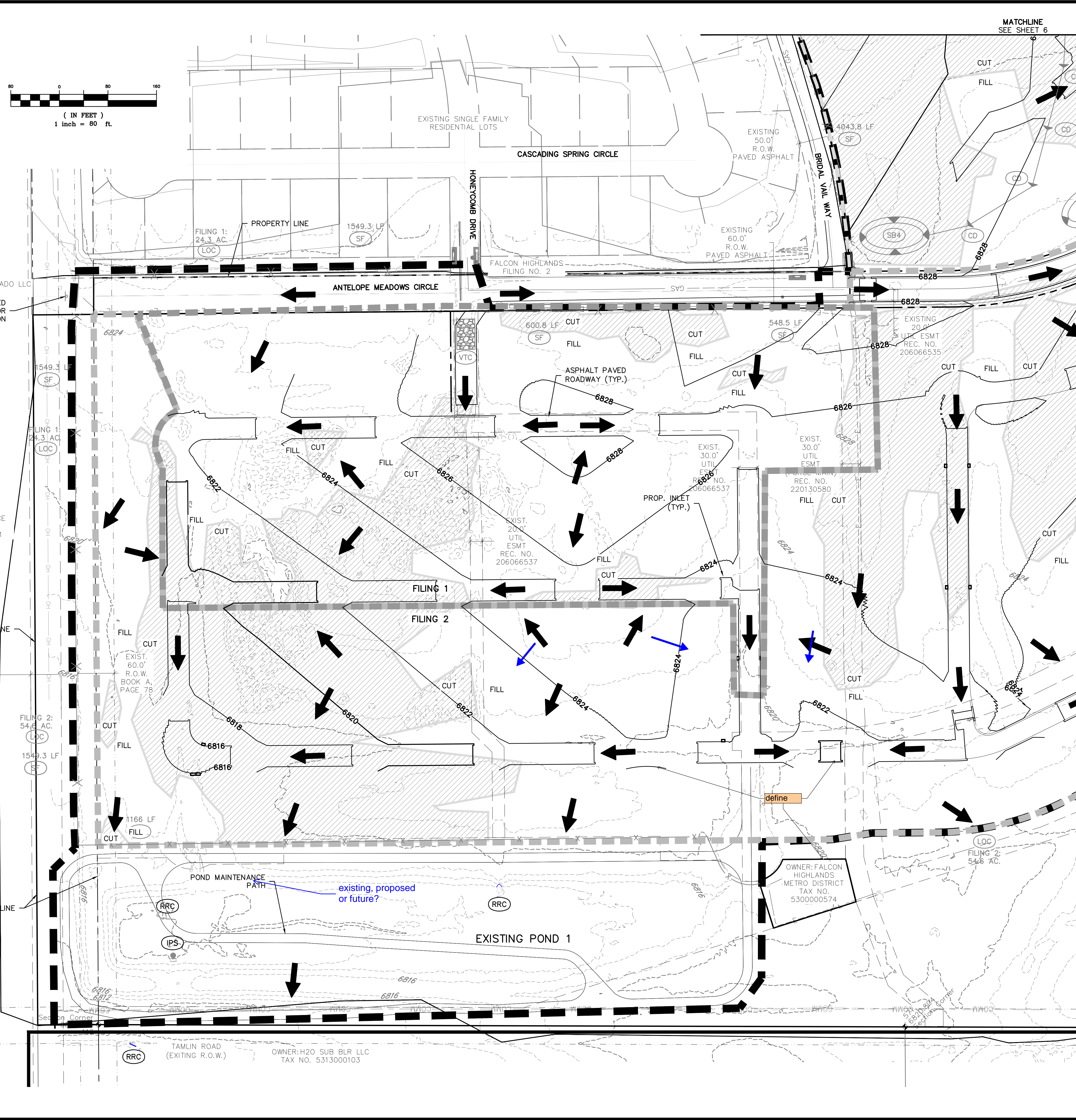
OWNER: WALTON COLORADO LLC
TAX NO. 530000716
SIGNAGE TO BE INSTALLED PROHIBITING ACCESS FOR CONSTRUCTION

OWNER: PUBLIC SERVICE CO OF COLORADO
TAX NO. 5300000091

EXIST. 50.0' UTIL ESMT (ELEC.)
BOOK 2649, PAGE 17

show how proposed contours tie into existing

CITY OF COLORADO SPRINGS
EL PASO COUNTY



TAMLIN ROAD (EXITING R.O.W.)
OWNER: H2O SUB BLR LLC
TAX NO. 5313000103

OWNER: FALCON HIGHLANDS METRO DISTRICT
TAX NO. 5300000574

MATCHLINE
SEE SHEET 8

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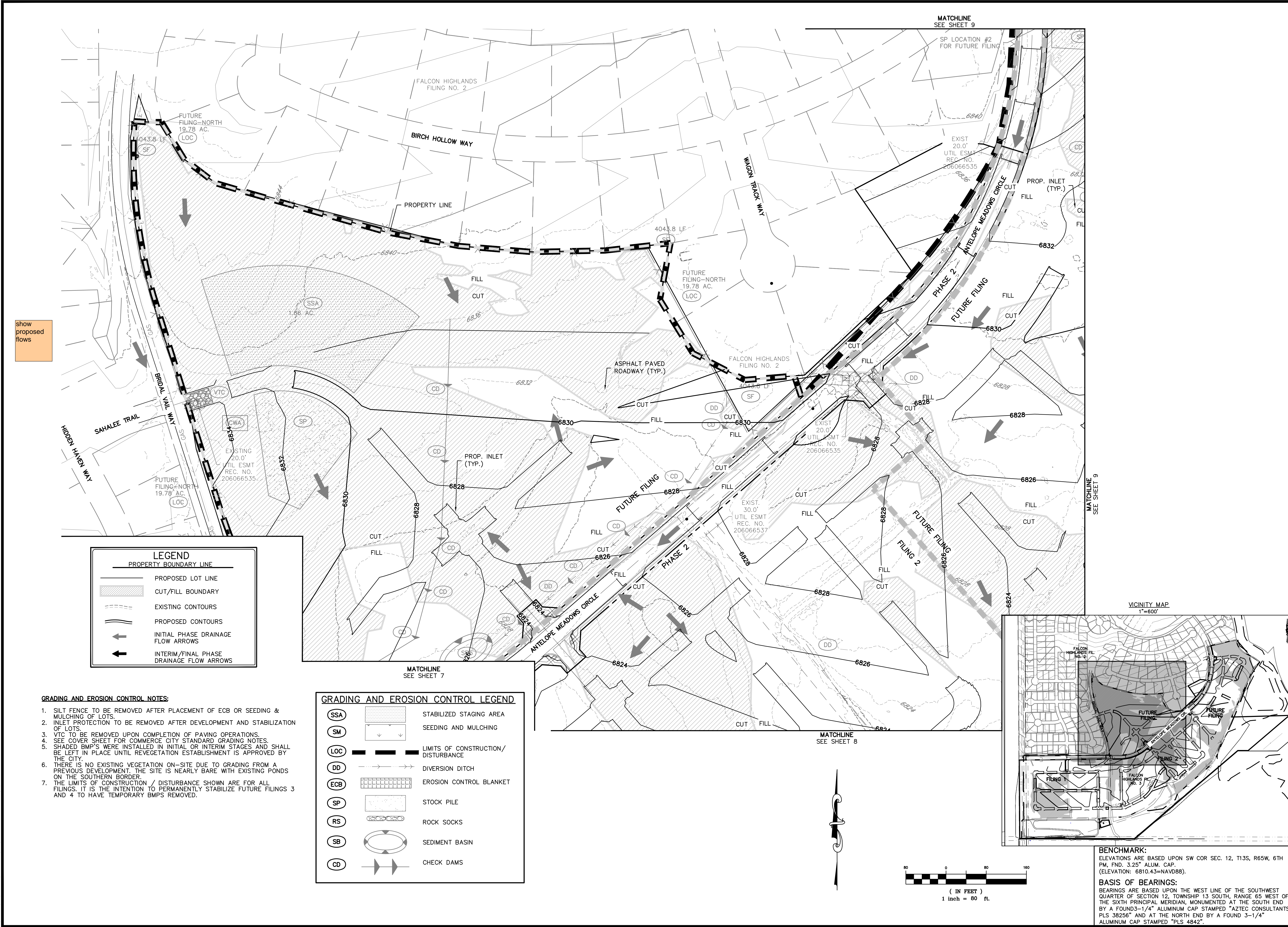
CHALLENGER HOMES
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EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
INTERIM GEP

CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
SUBMITTAL TO EPIC: 07/29/2022 - RDL

REVISIONS:

NO.	DESCRIPTION

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH:
P.M. RDL
JOB: 21005234
SHEET NO: 6



show proposed flows

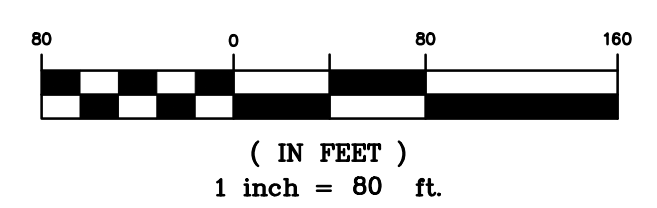
LEGEND

	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS

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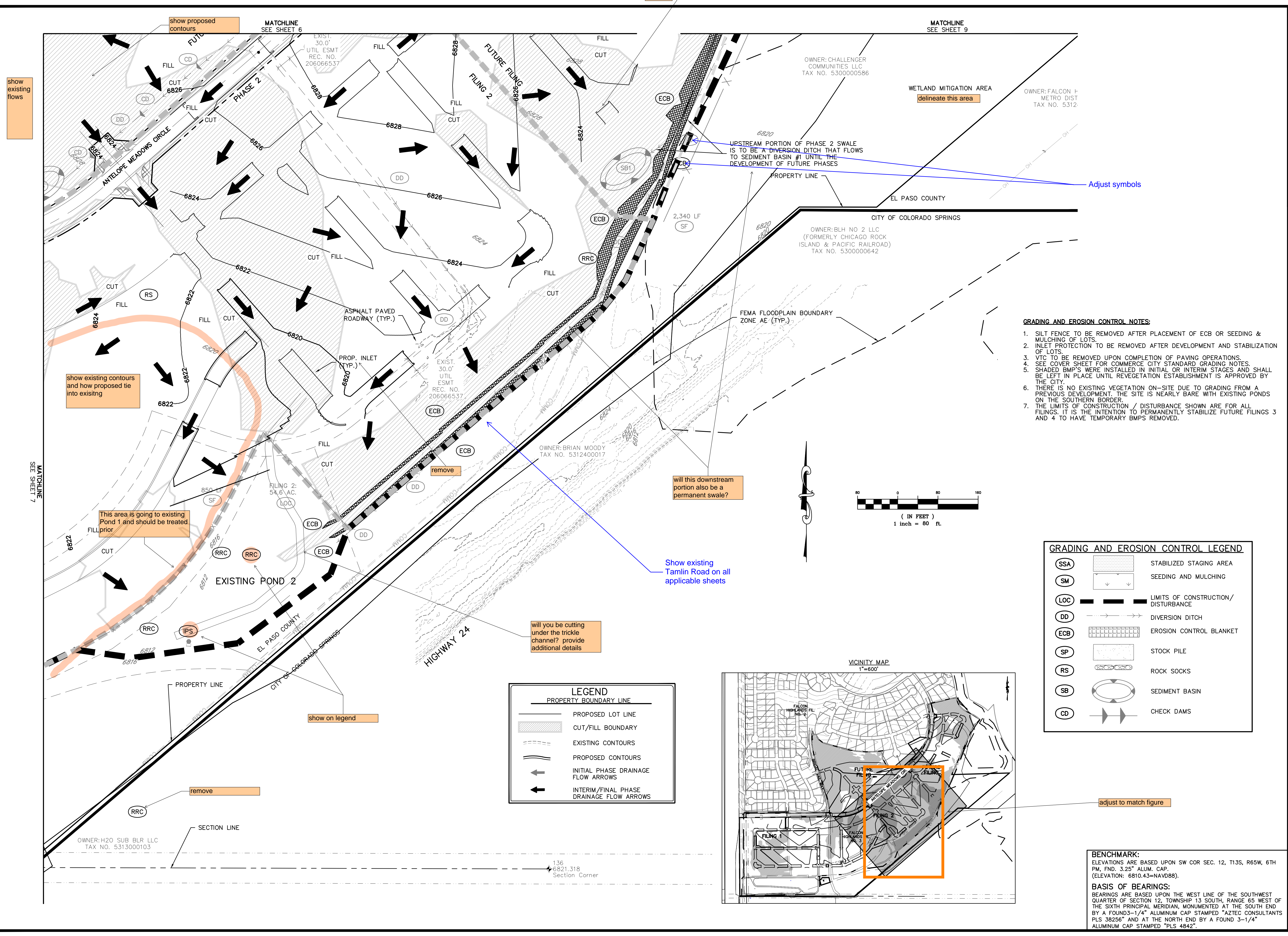
GRADING AND EROSION CONTROL LEGEND

	STABILIZED STAGING AREA
	SEEDING AND MULCHING
	LIMITS OF CONSTRUCTION/DISTURBANCE
	DIVERSION DITCH
	EROSION CONTROL BLANKET
	STOCK PILE
	ROCK SOCKS
	SEDIMENT BASIN
	CHECK DAMS



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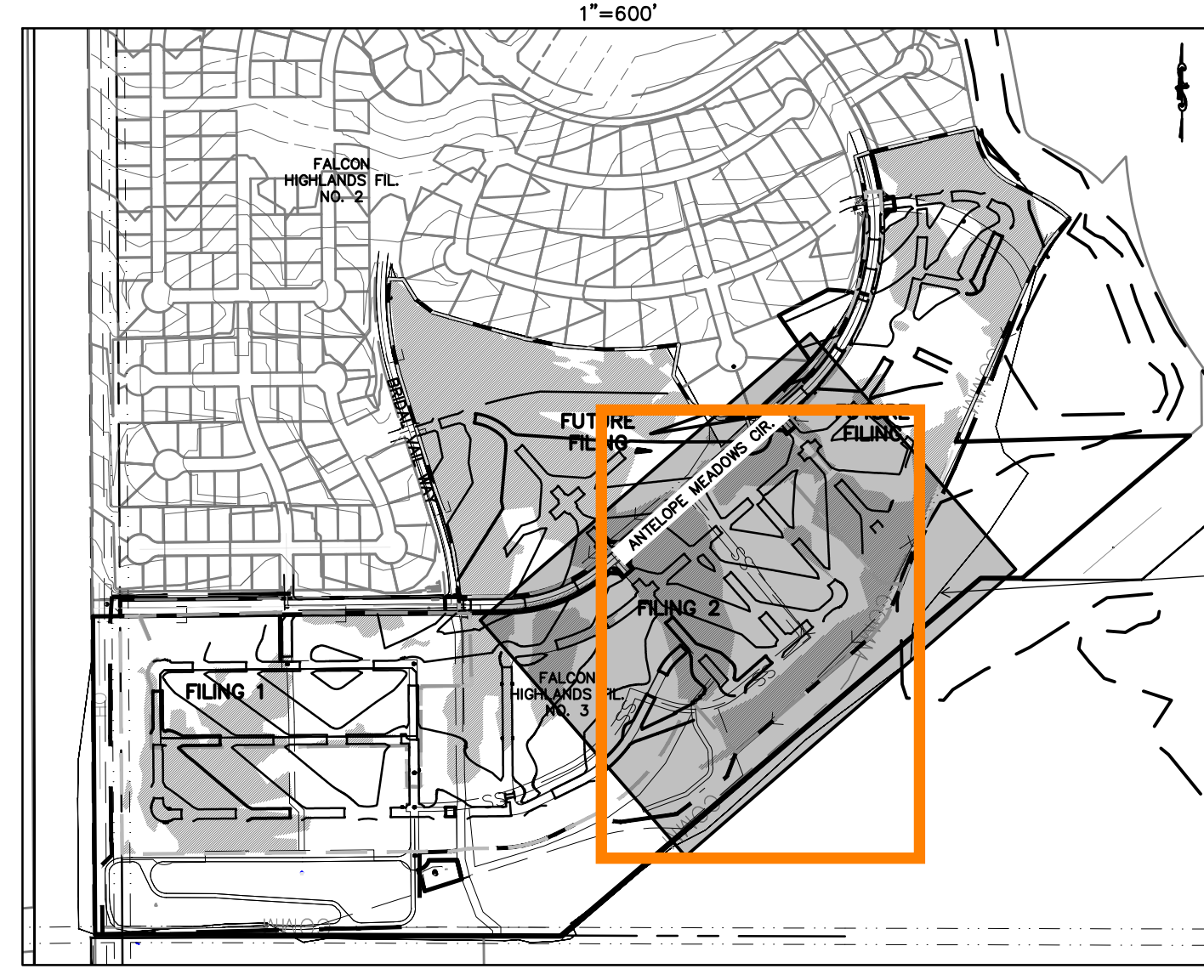
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(SSA)	[Symbol]	STABILIZED STAGING AREA
(SM)	[Symbol]	SEEDING AND MULCHING
(LOC)	[Symbol]	LIMITS OF CONSTRUCTION / DISTURBANCE
(DD)	[Symbol]	DIVERSION DITCH
(ECB)	[Symbol]	EROSION CONTROL BLANKET
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(RS)	[Symbol]	ROCK SOCKS
(SB)	[Symbol]	SEDIMENT BASIN
(CD)	[Symbol]	CHECK DAMS

LEGEND

[Symbol]	PROPERTY BOUNDARY LINE
[Symbol]	PROPOSED LOT LINE
[Symbol]	CUT/FILL BOUNDARY
[Symbol]	EXISTING CONTOURS
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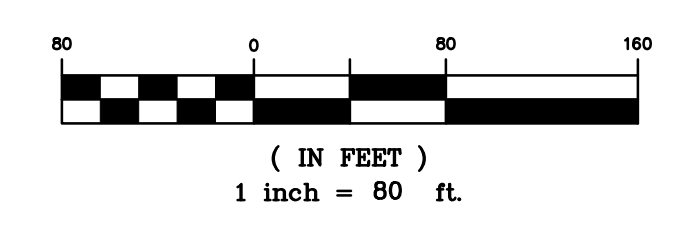
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<p>CHALLENGER HOMES</p> <p>8605 EXPLORER DRIVE SUITE 250 COLORADO SPRINGS, CO 80920</p> <p>719-598-5192 JIM BYERS</p>	<p>CHALLENGER HOMES</p> <p>FALCON HIGHLANDS SOUTH EL PASO COUNTY, COLORADO CONSTRUCTION PLANS</p> <p>GRADING AND EROSION CONTROL PLAN INTERIM_GEP</p>						
<p>CLIENT: CHALLENGER HOMES</p> <p>DATE: 8/31/2022</p> <p>A 1st SUBMITTAL TO EPIC 07/29/2022 - RDL</p>							
<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		NO.	DESCRIPTION				
NO.	DESCRIPTION						
<p>COUNTY FILE NO.: PUDSP-22-005</p> <p>DR: JD CH.</p> <p>P.M. RDL</p> <p>JOB: 21005234</p> <p>SHEET NO. 8</p>							

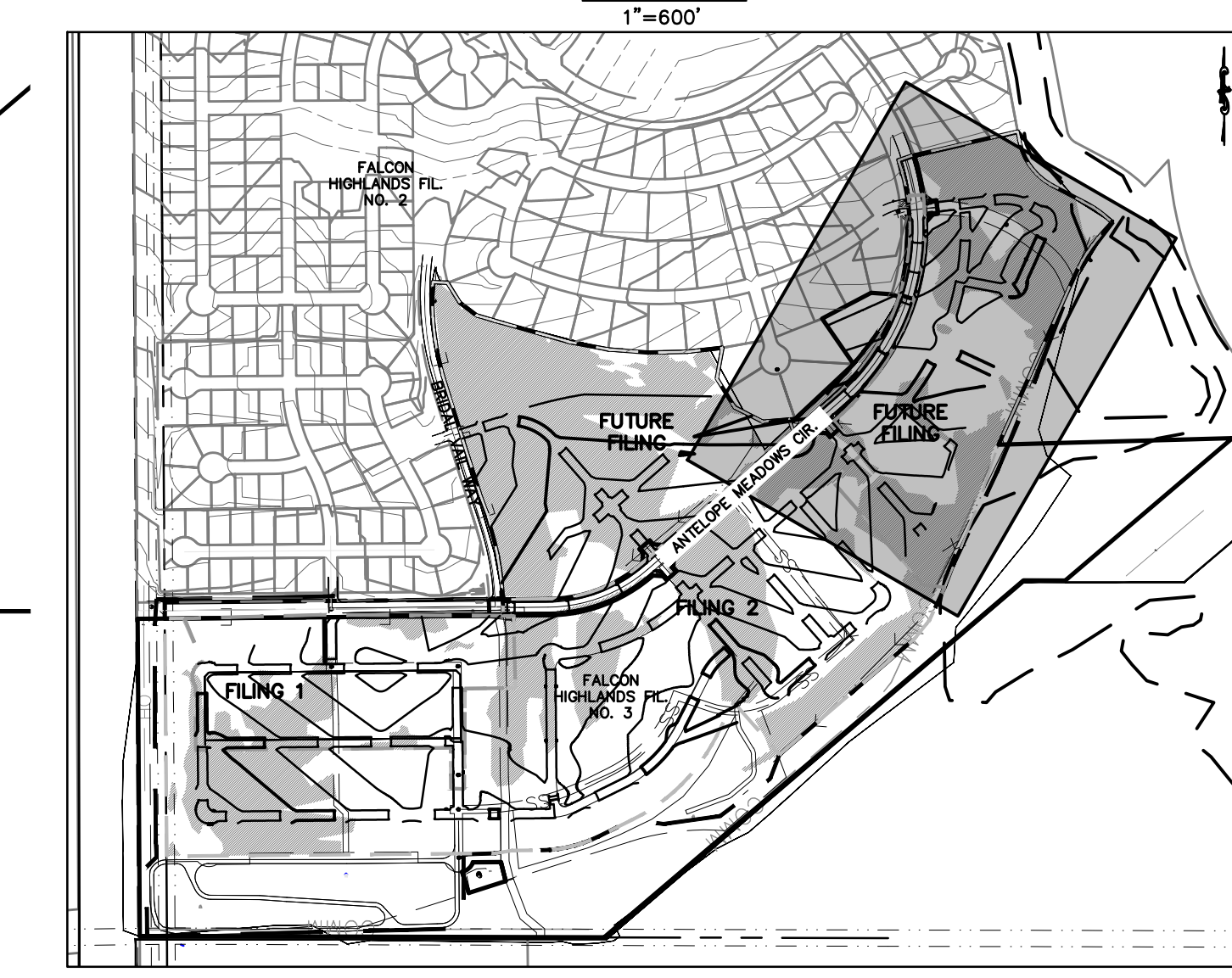
CAD FILE: 21005234-GECP-INTERIM.GWG



LEGEND	
	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
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	PROPOSED CONTOURS
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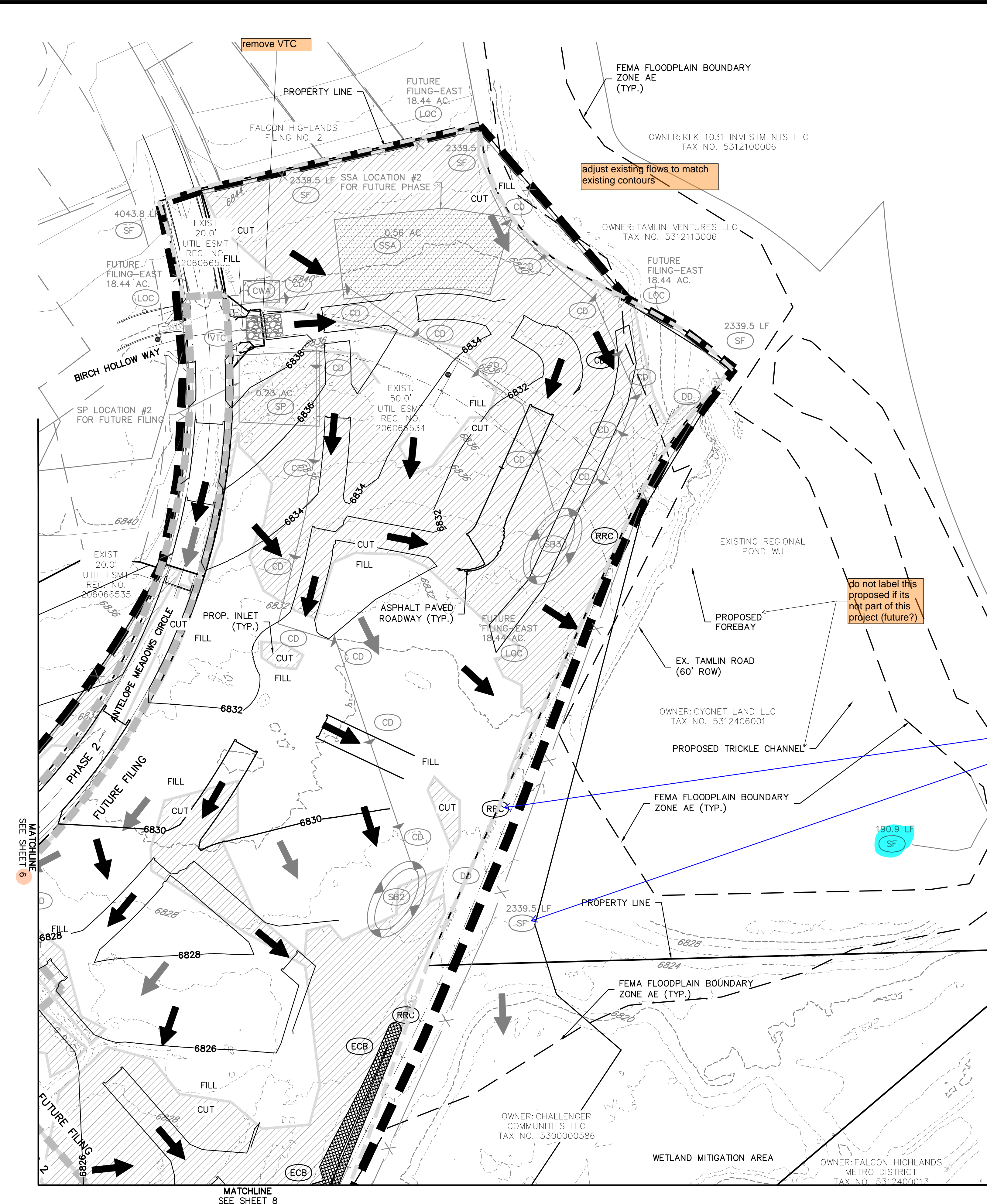
CHALLENGER HOMES
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CONSTRUCTION PLANS
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INTERIM_GCP

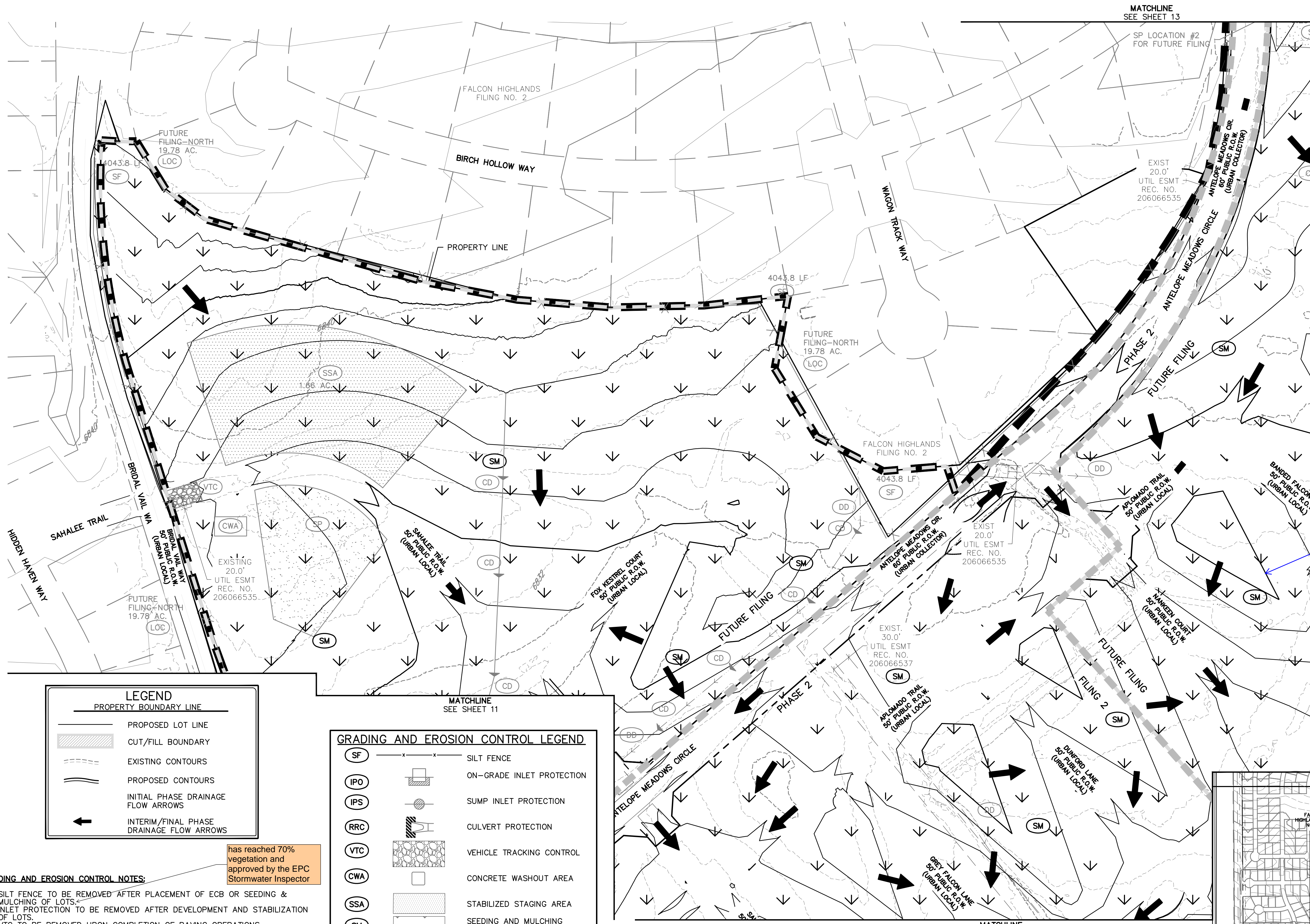
CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
SUBMITTAL TO EPIC: 07/29/2022 - RDL

REVISIONS:

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO.: 9

CAD FILE: 21005234-GCPC-INTERIM.GWG





to avoid confusion on whats to remain and what is to be removed. consider removing all temporary BMPs show that will not remain after final stabilization. Specifically, it is unclear if these temporary BMPs will remain: VTC, CWA, SSA, DD, CD, RRC

LEGEND

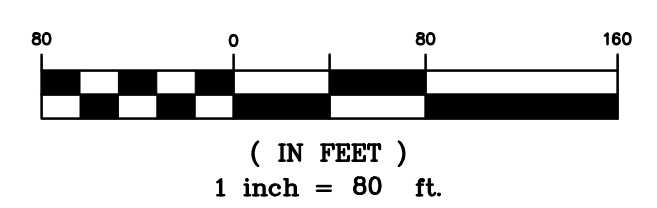
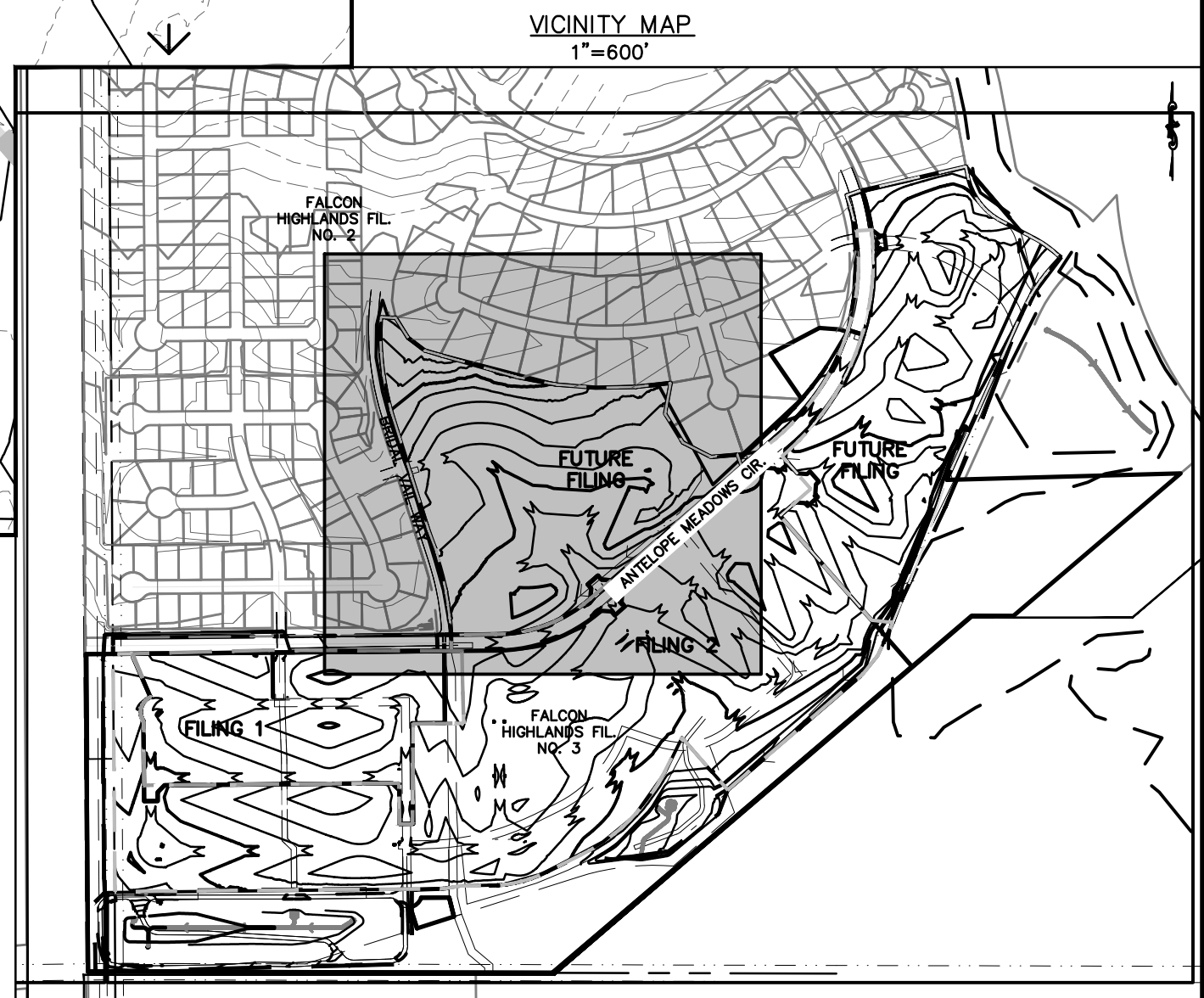
---	PROPERTY BOUNDARY LINE
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---	PROPOSED CONTOURS
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←	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS

GRADING AND EROSION CONTROL LEGEND

SF	SILT FENCE
IPO	ON-GRADE INLET PROTECTION
IPS	SUMP INLET PROTECTION
RRC	CULVERT PROTECTION
VTC	VEHICLE TRACKING CONTROL
CWA	CONCRETE WASHOUT AREA
SSA	STABILIZED STAGING AREA
SM	SEEDING AND MULCHING
LOC	LIMITS OF CONSTRUCTION / DISTURBANCE
DD	DIVERSION DITCH
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has reached 70% vegetation and approved by the EPC Stormwater Inspector



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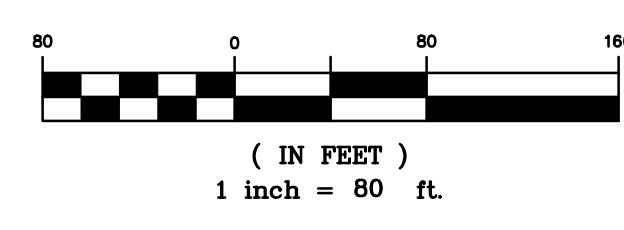
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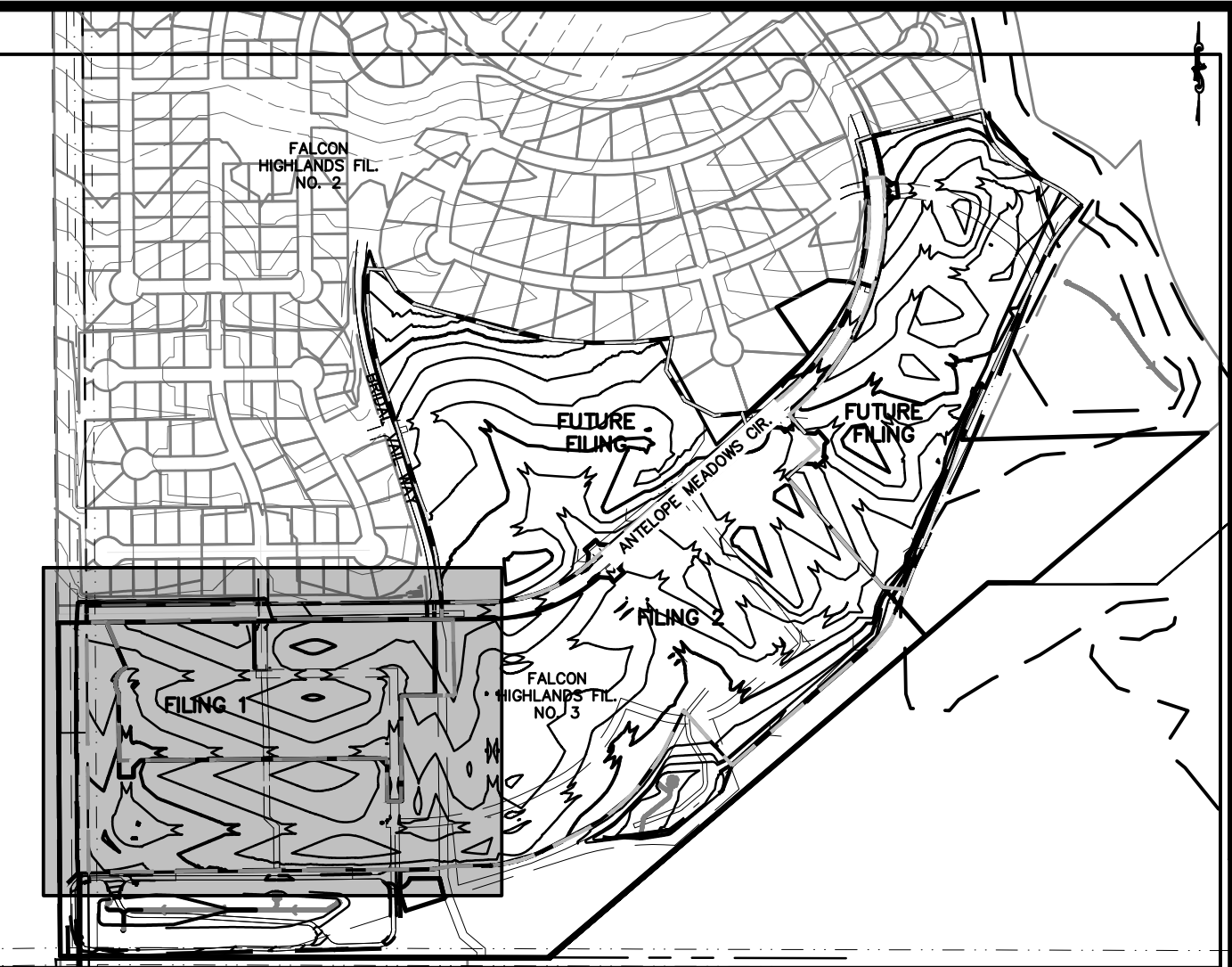
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DATE: 8/31/2022	COUNTY FILE NO.: PUDSP-22-005
REVISIONS:	DR: JD CH: P.M. RDL
	JOB: 21005234
	SHEET NO. 10

CAD FILE: 21005234-GECP-FINAL.DWG

show seeding and mulching



MATCHLINE
SEE SHEET 10



811
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VICINITY MAP
1"=600'

LEGEND

PROPERTY BOUNDARY LINE

PROPOSED LOT LINE

CUT/FILL BOUNDARY

EXISTING CONTOURS

PROPOSED CONTOURS

INITIAL PHASE DRAINAGE FLOW ARROWS

INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS

GRADING AND EROSION CONTROL NOTES:

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GRADING AND EROSION CONTROL LEGEND

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(IPO)	ON-GRADE INLET PROTECTION
(IPS)	SUMP INLET PROTECTION
(RRC)	CULVERT PROTECTION
(VTC)	VEHICLE TRACKING CONTROL
(CWA)	CONCRETE WASHOUT AREA
(SSA)	STABILIZED STAGING AREA
(SM)	SEEDING AND MULCHING
(LOC)	LIMITS OF CONSTRUCTION / DISTURBANCE
(DD)	DIVERSION DITCH
(ECB)	EROSION CONTROL BLANKET
(SP)	STOCK PILE
(RS)	ROCK SOCKS
(SB)	SEDIMENT BASIN
(CD)	CHECK DAMS

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8605 EXPLORER DRIVE
SUITE 250
COLORADO SPRINGS, CO 80920
719-598-5192
JIM BYERS

CHALLENGER HOMES
FALCON HIGHLANDS SOUTH
EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
FINAL GECP

CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
SUBMITTAL TO EPC: 07/29/2022 - RDL

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO. 11

OWNER: WALTON COLORADO LLC
TAX NO. 5300000716
SIGNAGE TO BE INSTALLED PROHIBITING ACCESS FOR CONSTRUCTION

OWNER: PUBLIC SERVICE
CO OF COLORADO
TAX NO. 5300000091

OWNER: FALCON HIGHLANDS METRO DISTRICT
TAX NO. 5300000574

OWNER: H2O SUB BLR LLC
TAX NO. 5313000103

Add labels back

delete one of the leaders

Label all facilities

Show and label existing Tamlin Road roadway

label contours

Show existing contours

CITY OF COLORADO SPRINGS
EL PASO COUNTY

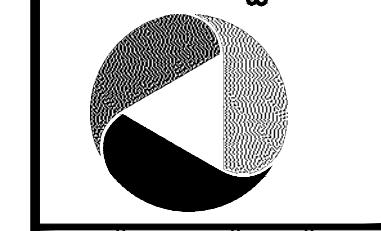


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DATE: 8/31/2022

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07/29/2022 - BDL

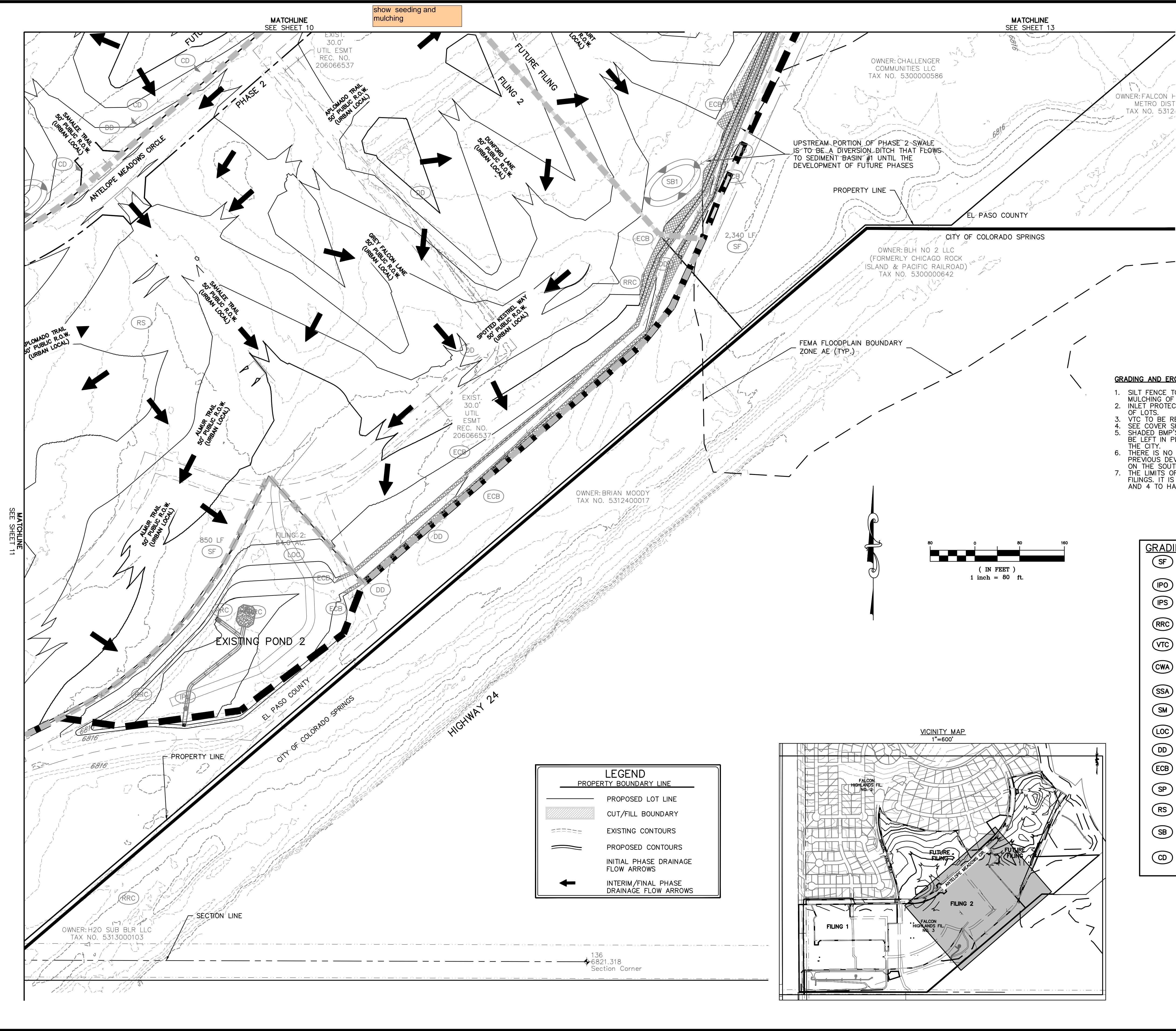
REVISIONS

DR: JD CH:
P.M. RDL

COUNTY FILE NO.: PUDSP-22-005

JOB: 21005234
SHEET NO. 12

CAD FILE: 21005234-GECP-FINAL.DWG



- GRADING AND EROSION CONTROL NOTES:**
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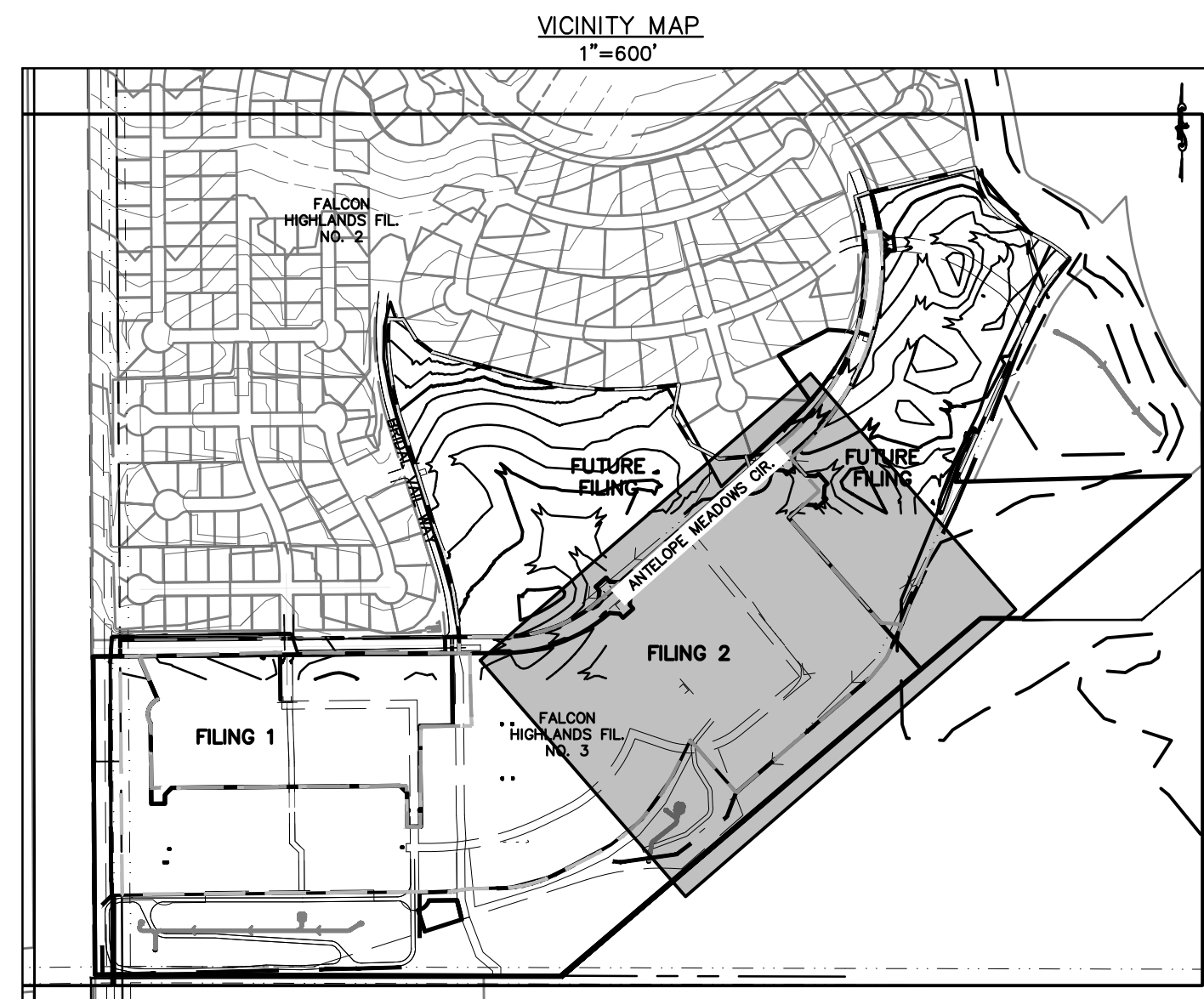
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(SP)	STOCK PILE
(RS)	ROCK SOCKS
(SB)	SEDIMENT BASIN
(CD)	CHECK DAMS

LEGEND

PROPERTY BOUNDARY LINE

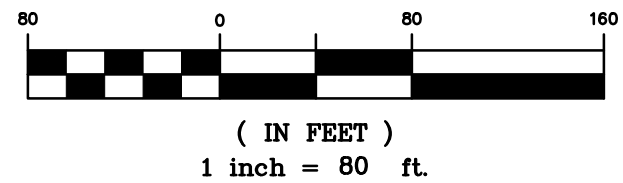
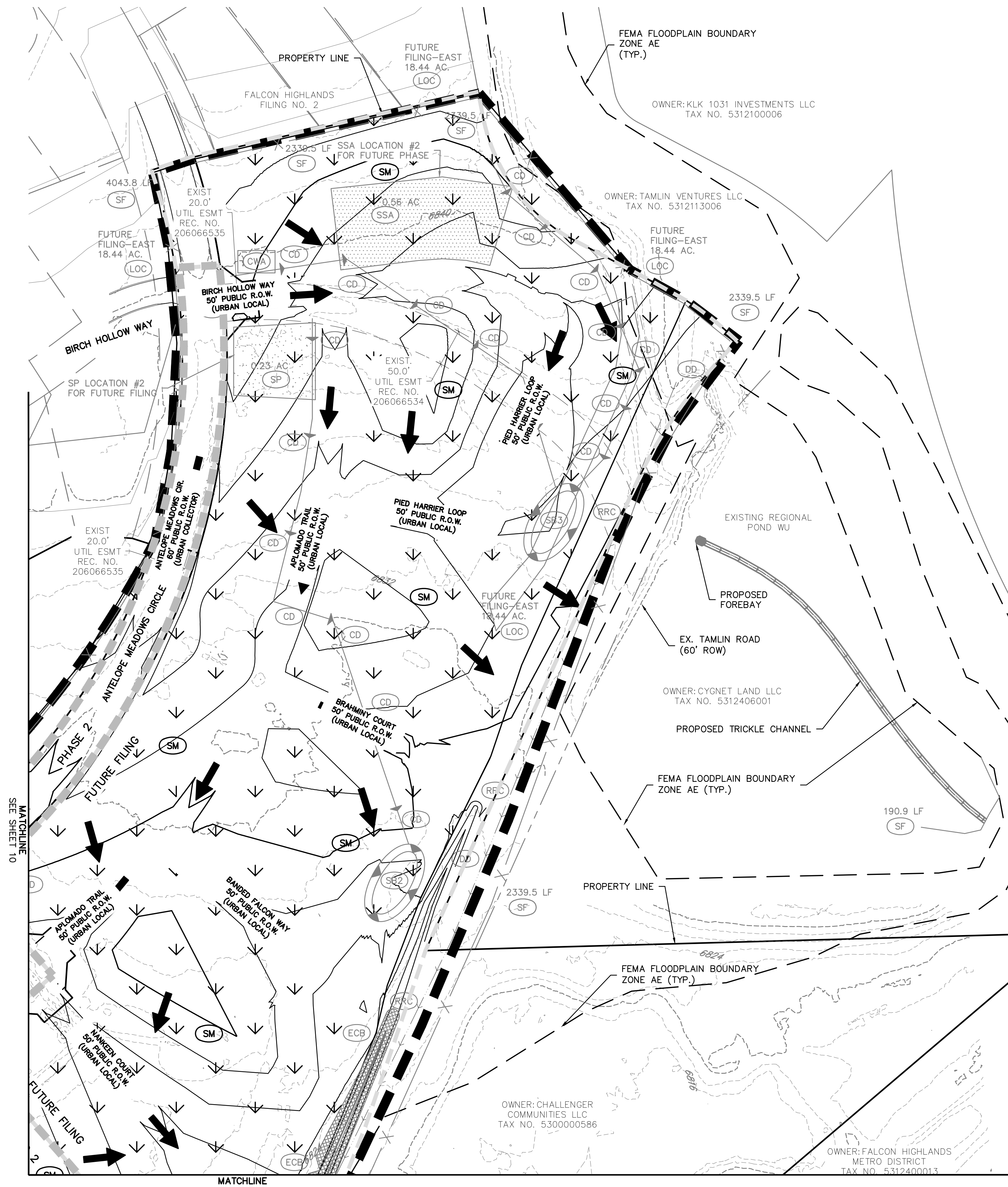
(Solid line)	PROPOSED LOT LINE
(Hatched area)	CUT/FILL BOUNDARY
(Dashed line)	EXISTING CONTOURS
(Solid line)	PROPOSED CONTOURS
(Arrow)	INITIAL PHASE DRAINAGE FLOW ARROWS
(Arrow)	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS



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136
6821.318
Section Corner



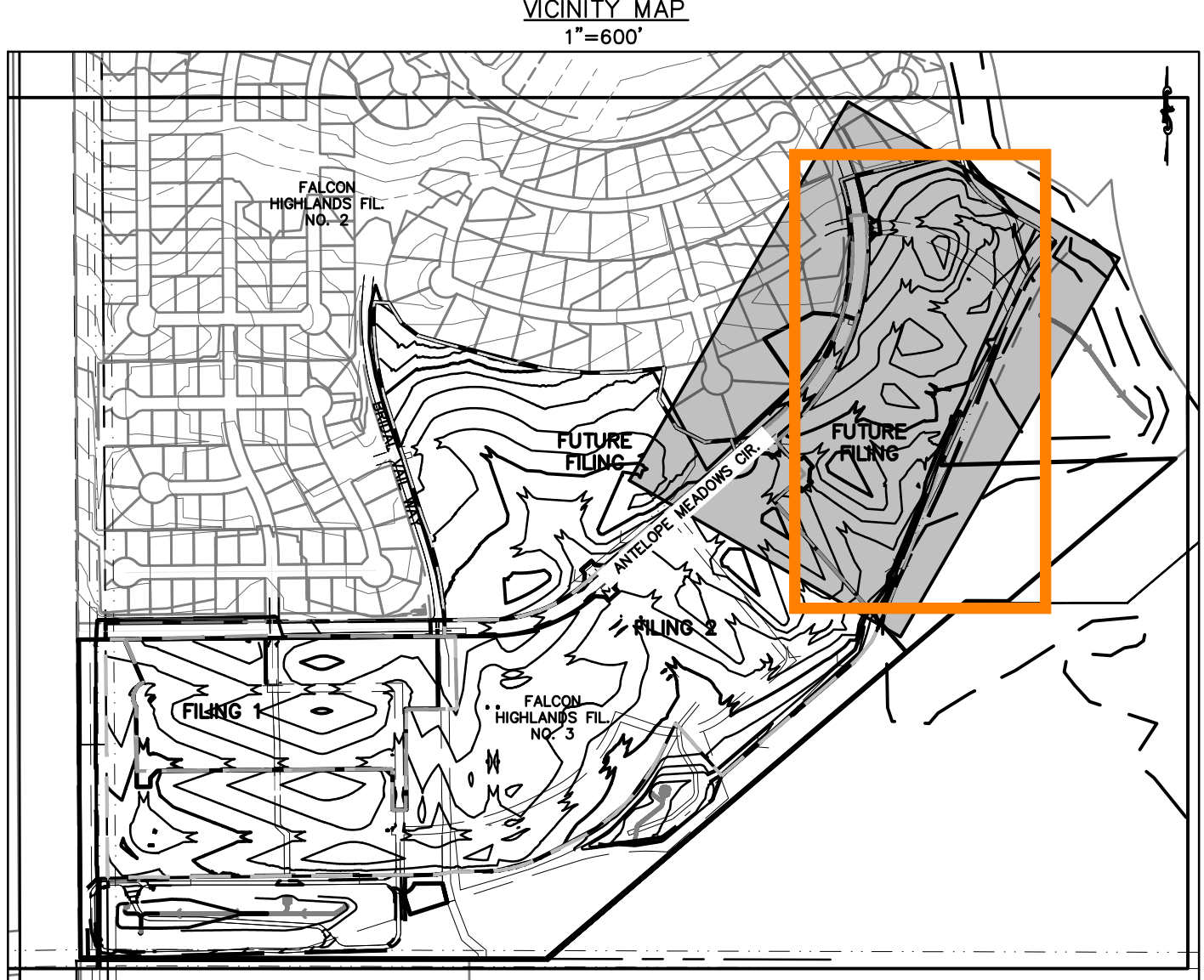
LEGEND	
	PROPERTY BOUNDARY LINE
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
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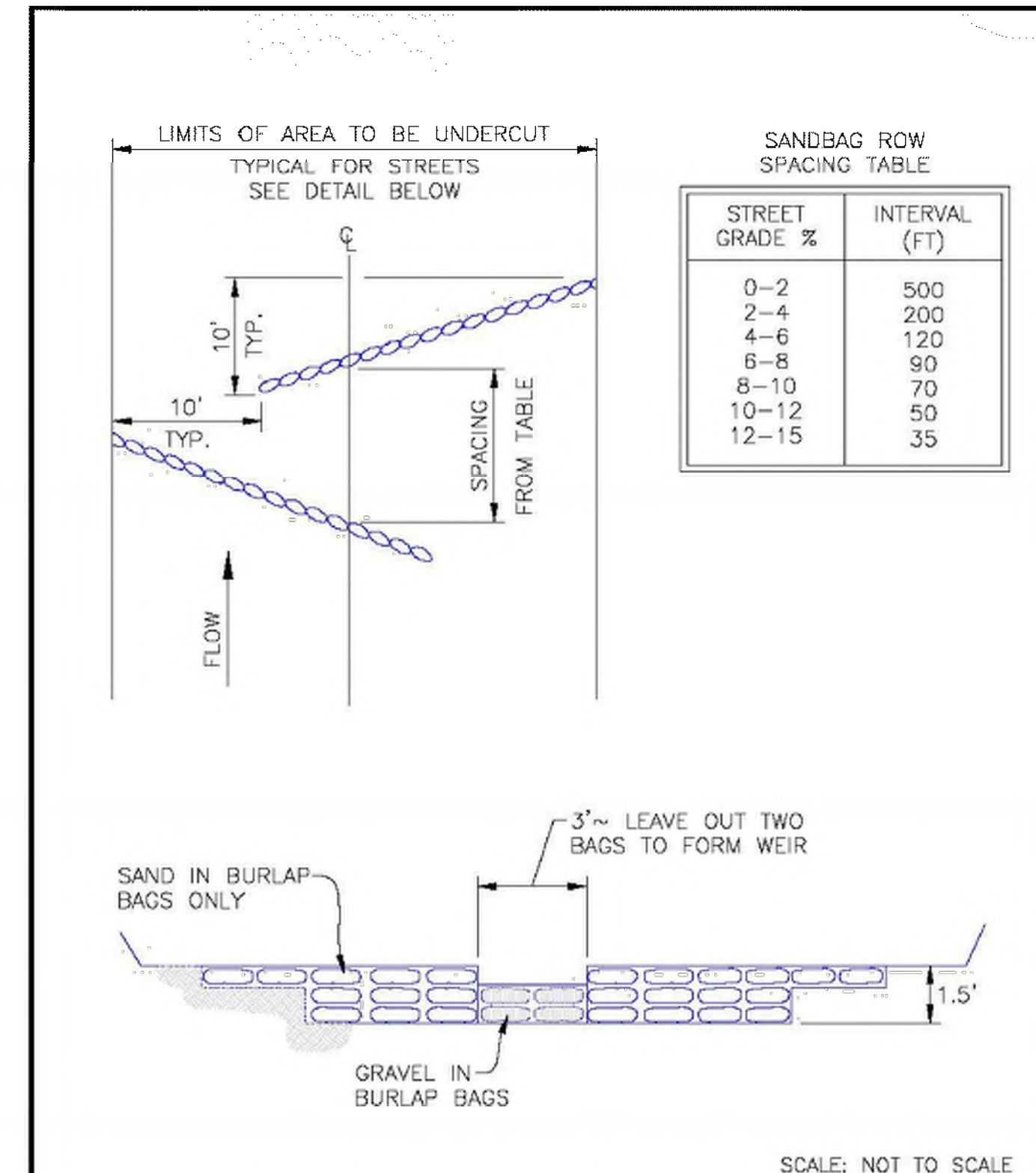
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<p>CLIENT: CHALLENGER HOMES</p> <p>DATE: 8/31/2022</p> <p>A 1st SUBMITTAL TO EPIC 07/29/2022 - RDL</p>	
<p>REVISIONS</p>	
<p>COUNTY FILE NO.: PUDSP-22-005</p> <p>DR: JD CH.</p> <p>P.M. RDL</p> <p>JOB: 21005234</p> <p>SHEET NO. 13</p>	

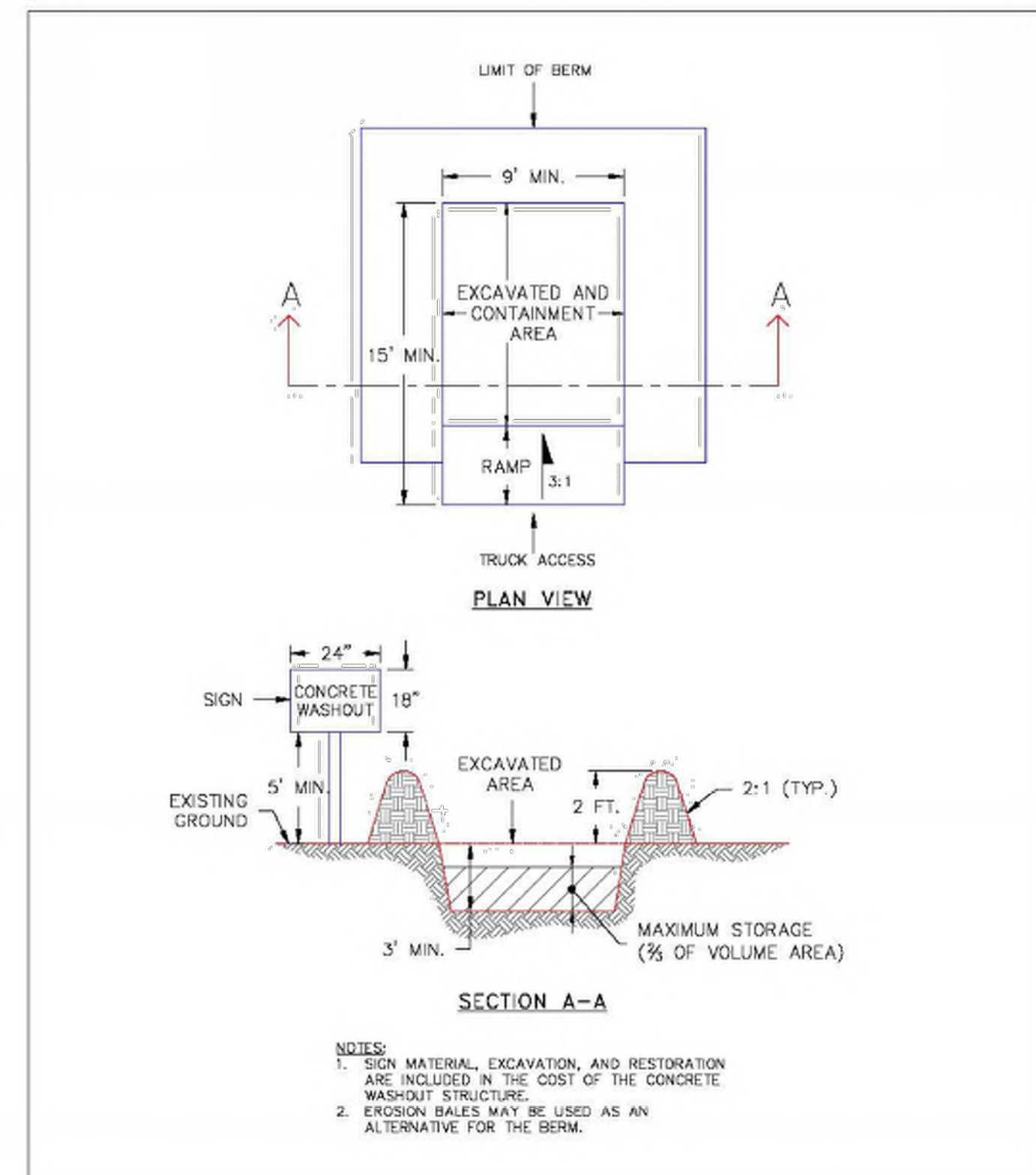
CAD FILE: 21005234-GCEP-FINAL.DWG



8/11/11
DATE APPROVED: André P. Brackin
DEPARTMENT OF TRANSPORTATION

Typical Check Dam Detail
Standard Drawing
REVISION DATE: 11/10/04
FILE NAME: SD_3-62

EL PASO COUNTY
DEPARTMENT OF TRANSPORTATION

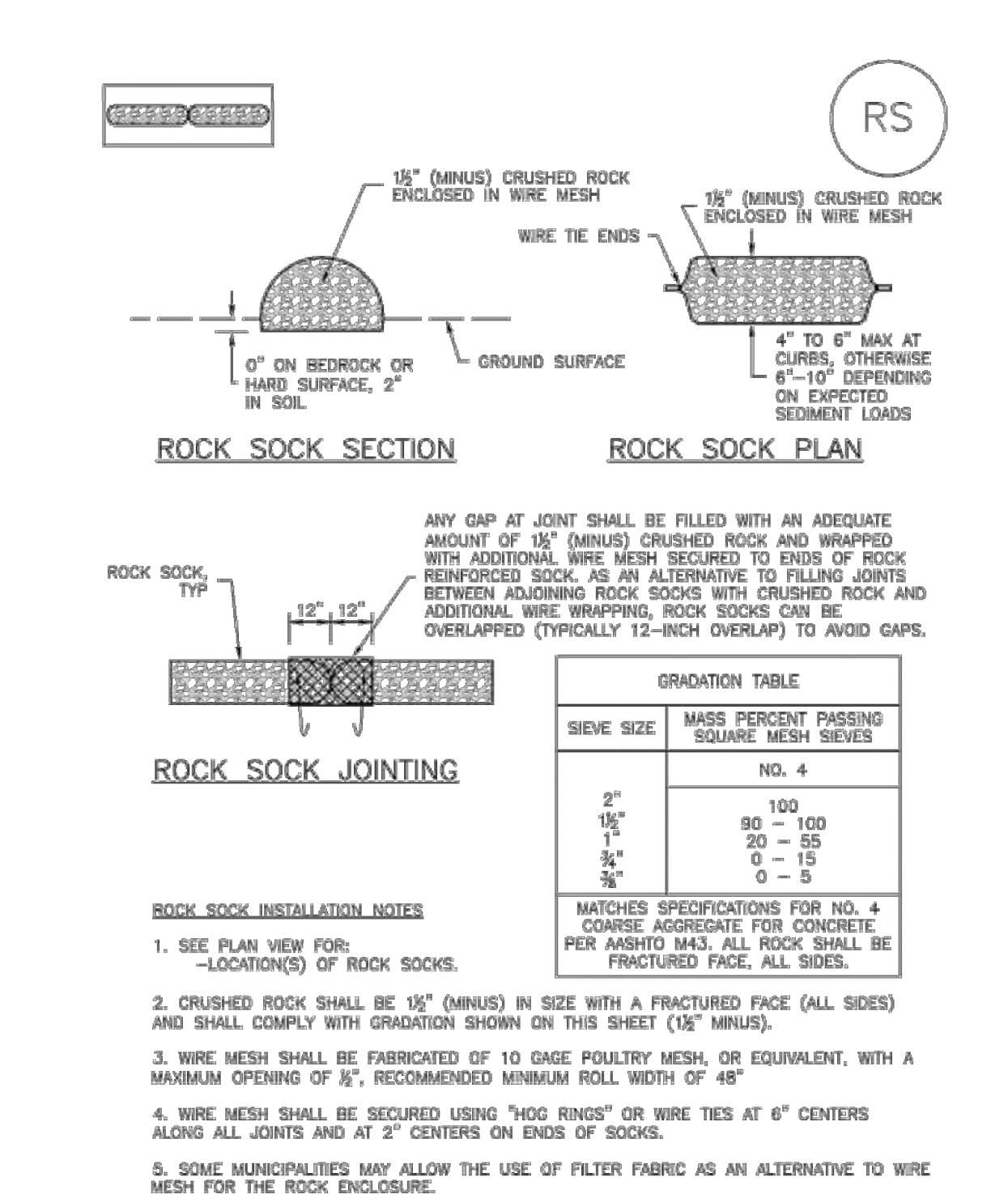


1/1/08
DATE APPROVED: John A. McCarty
DEPARTMENT OF TRANSPORTATION

Concrete Washout Structure
Standard Drawing
REVISION DATE: 7/17/07
FILE NAME: SD_3-84

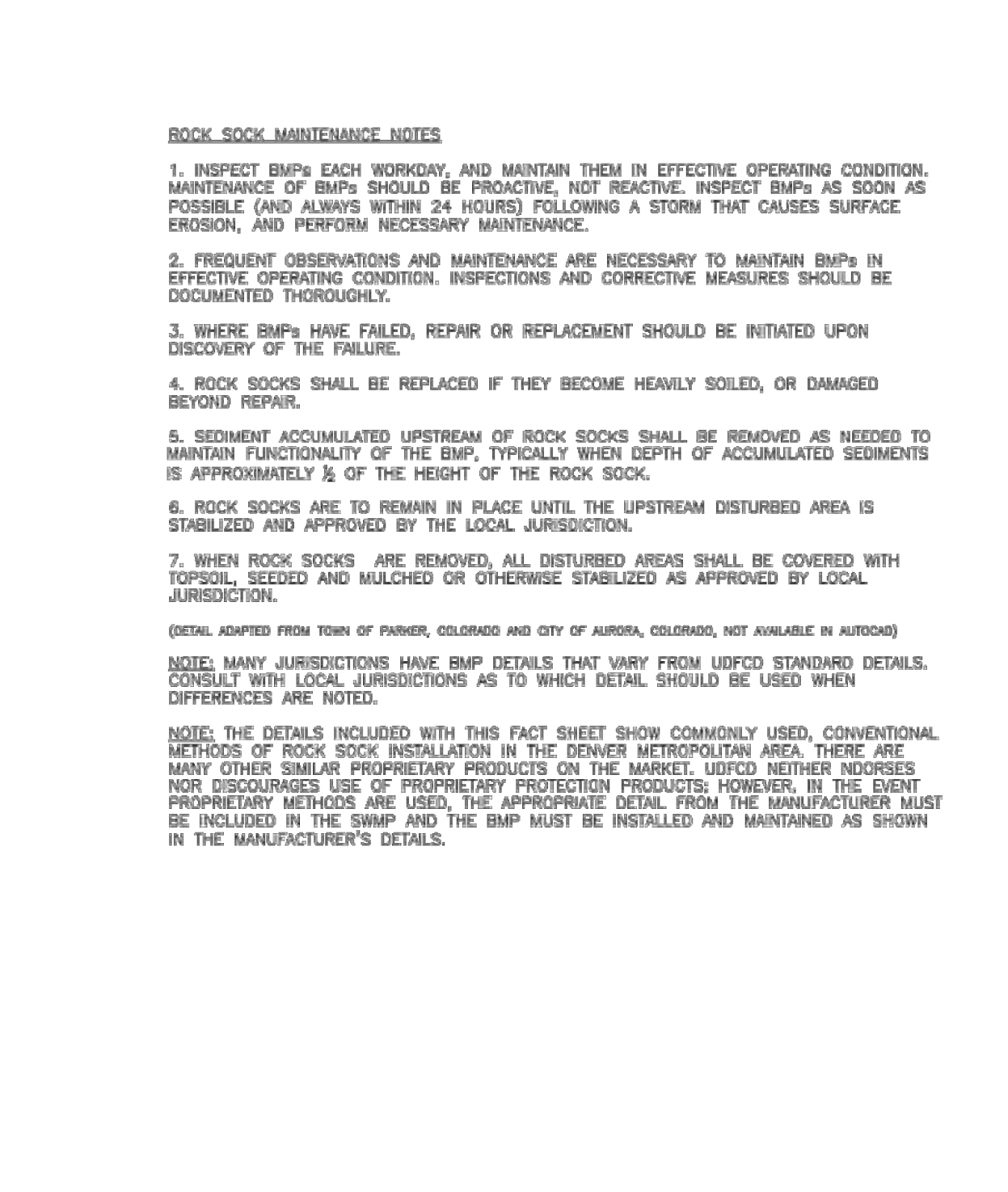
EL PASO COUNTY
DEPARTMENT OF TRANSPORTATION

SC-5 Rock Sock (RS)



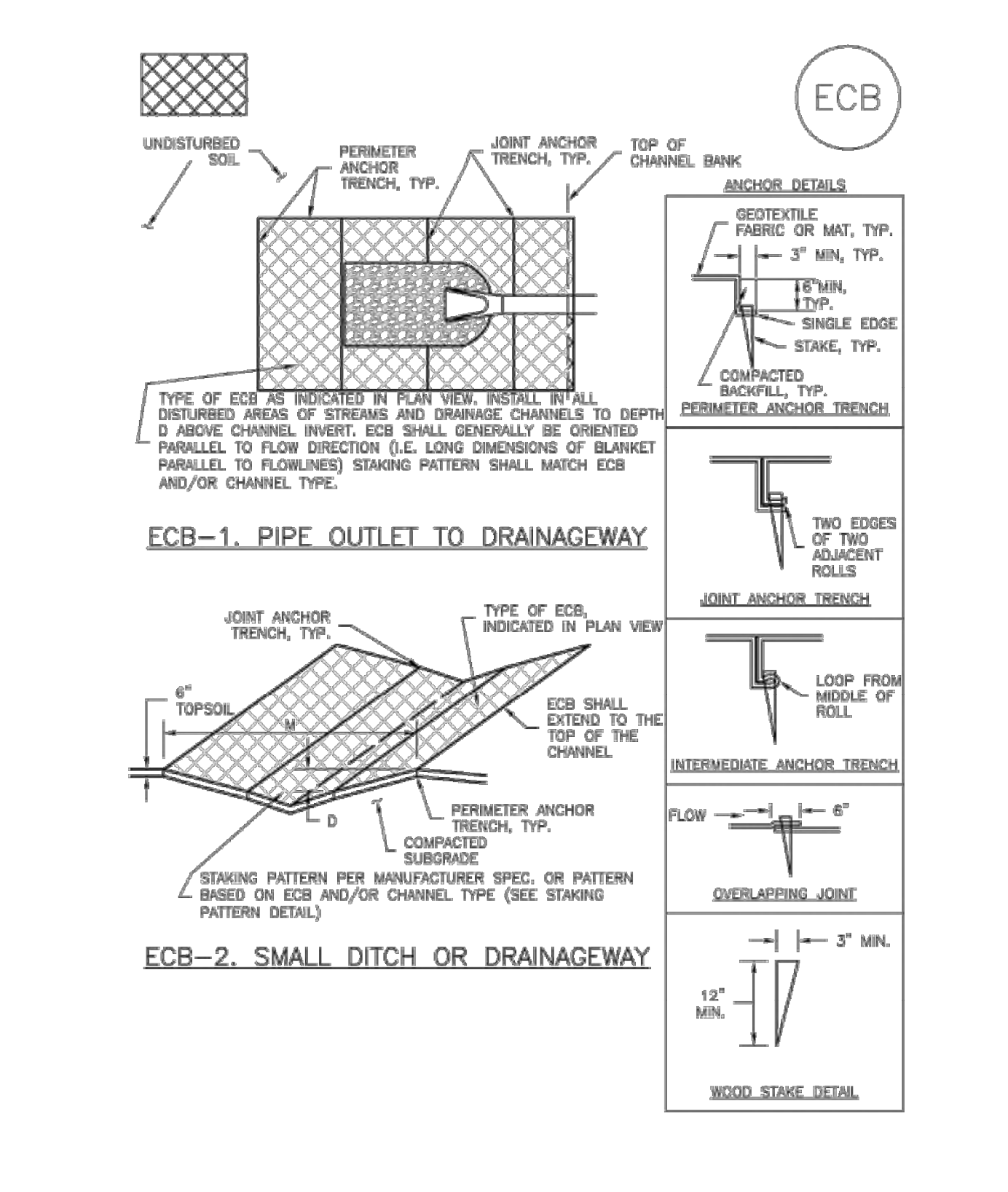
RS-2 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
November 2010

Rock Sock (RS) SC-5



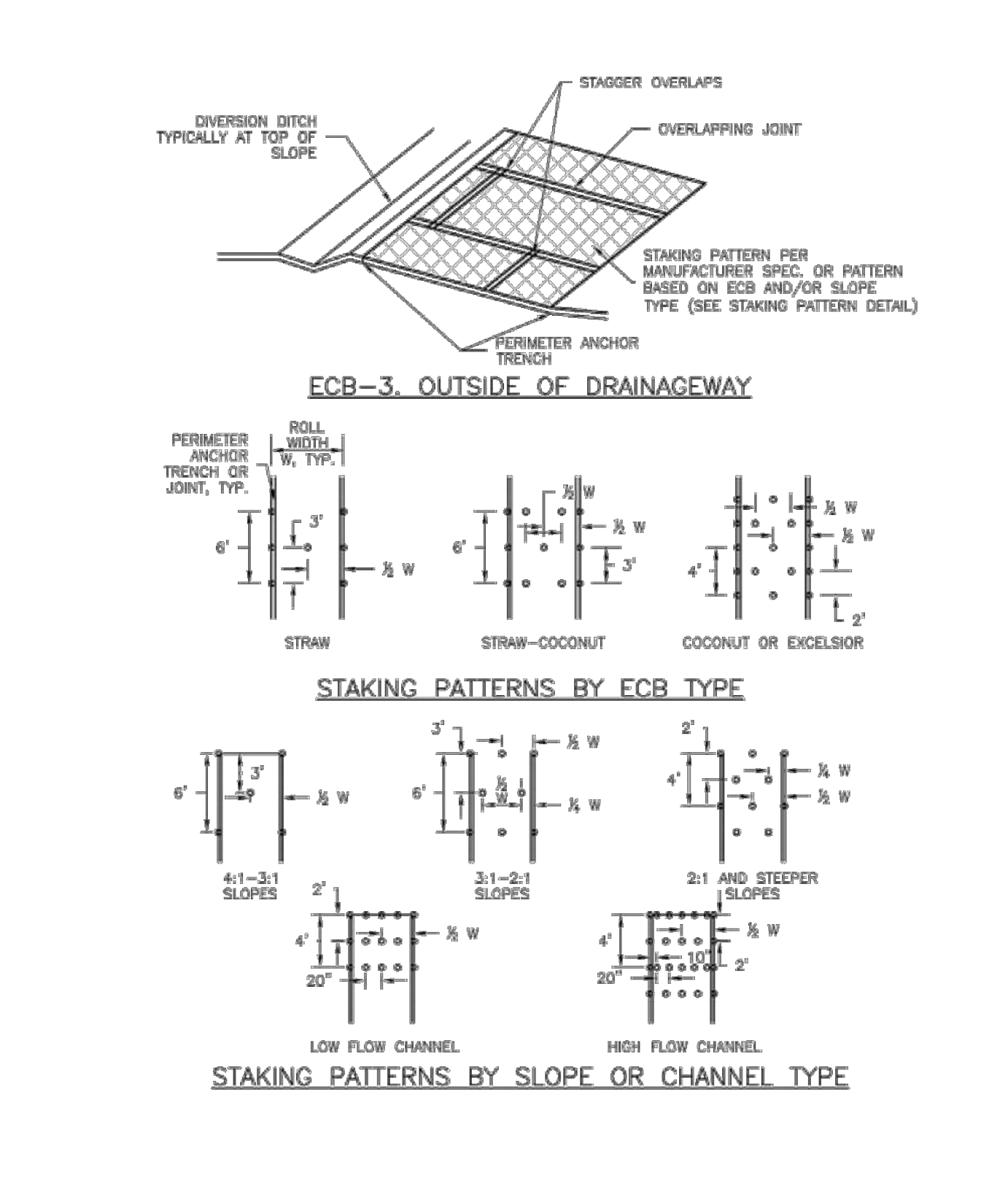
November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

EC-6 Rolled Erosion Control Products (RECP)



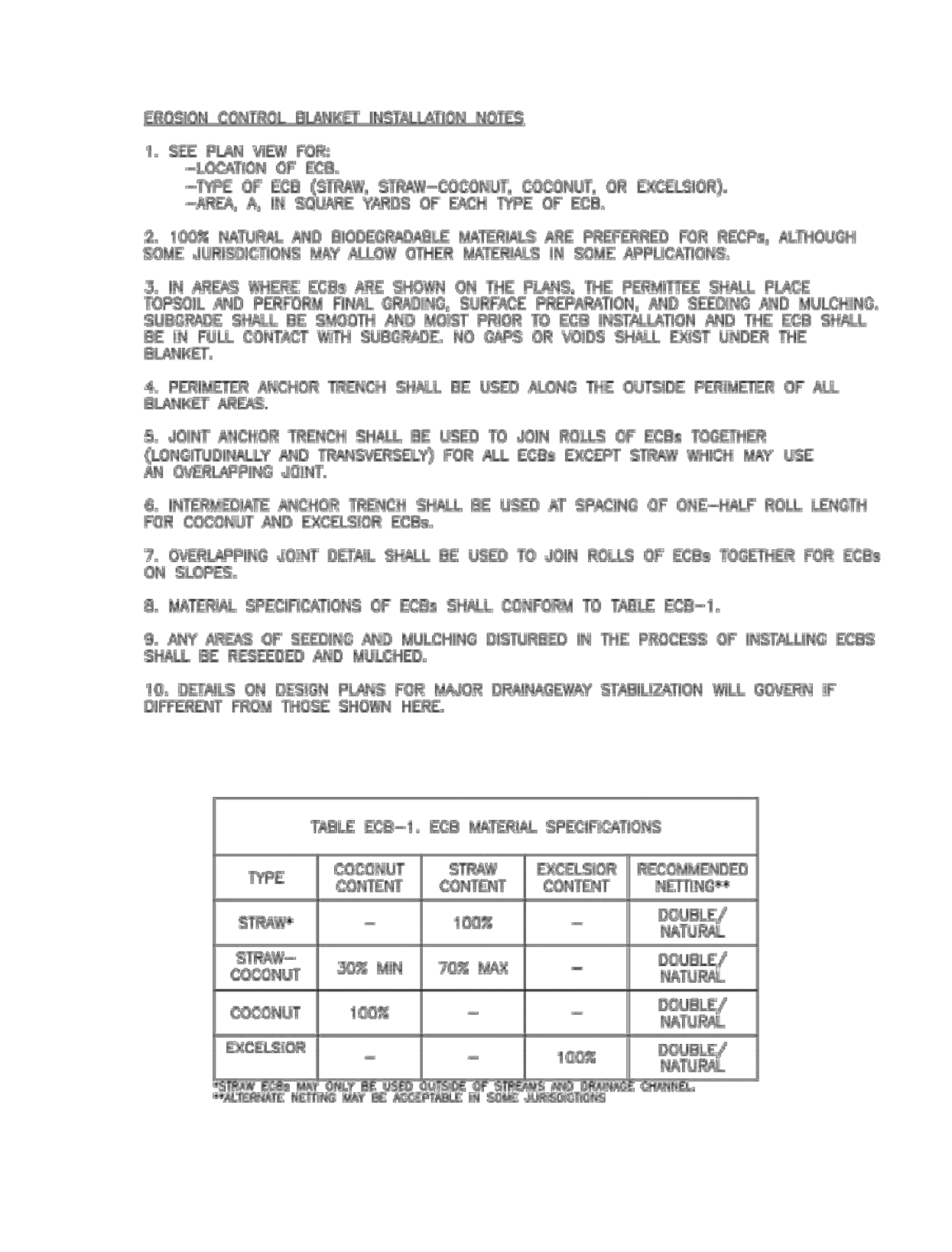
RECP-6 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
November 2010

Roller Erosion Control Products (RECP) EC-6



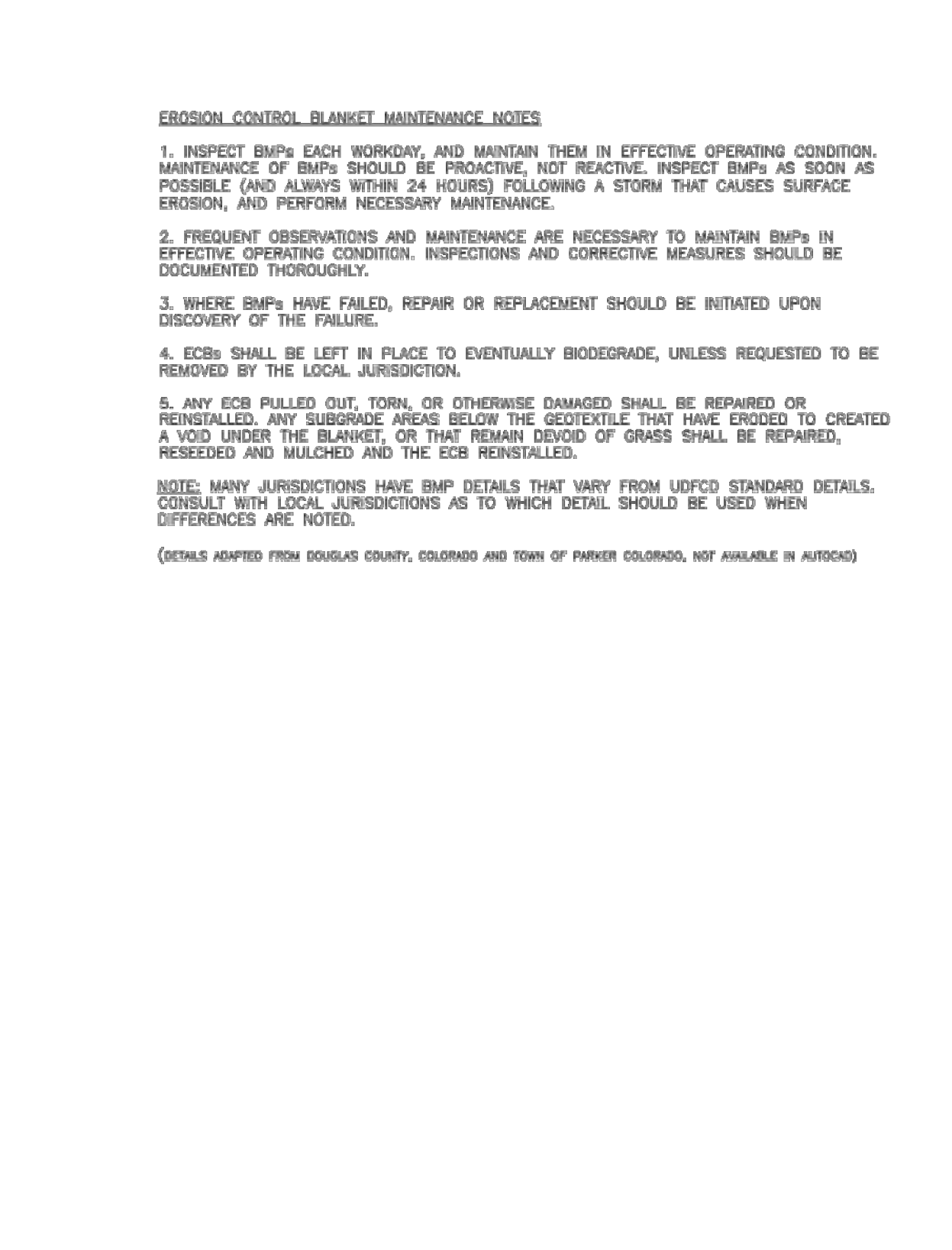
November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

EC-6 Rolled Erosion Control Products (RECP)



RECP-8 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
November 2010

Roller Erosion Control Products (RECP) EC-6



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811
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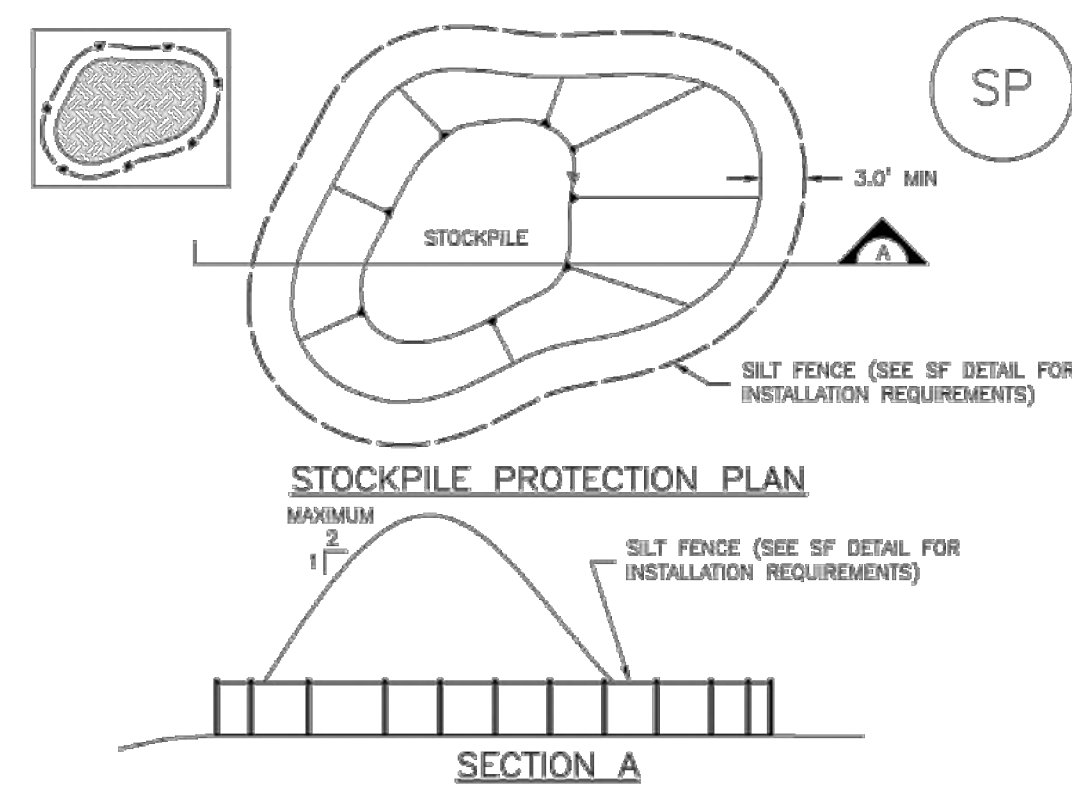
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07/29/2022 - RDL

REVISIONS

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO. 14
CAD FILE: 21005234-RECP-DETAILS.DWG

Stockpile Management (SP) MM-2



SP-1. STOCKPILE PROTECTION

- STOCKPILE PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF STOCKPILES
 - TYPE OF STOCKPILE PROTECTION
 - INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
 - STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
 - FOR TEMPORARY 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.

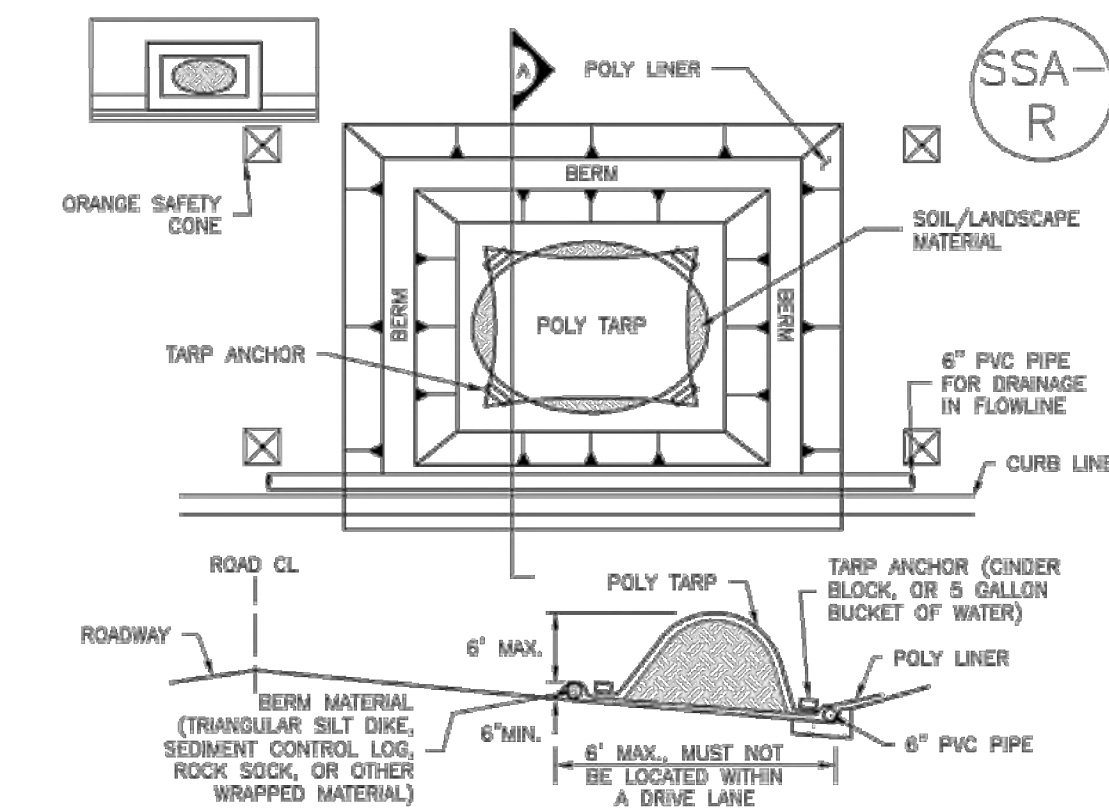
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-3

MM-2 Stockpile Management (SM)

- STOCKPILE PROTECTION 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.
- STOCKPILE PROTECTION MAINTENANCE NOTES**
- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
 - STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.
- (DETAILS ADAPTED FROM PARKER, 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.

SP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stockpile Management (SP) MM-2



SP-2. MATERIALS STAGING IN ROADWAY

- MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF MATERIAL STAGING AREA(S)
 - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
 - FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.
 - MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.
 - POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.
 - SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.
 - FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.
 - THIS FEATURE CAN BE USED FOR:
 - UTILITY REPAIRS
 - WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
 - OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

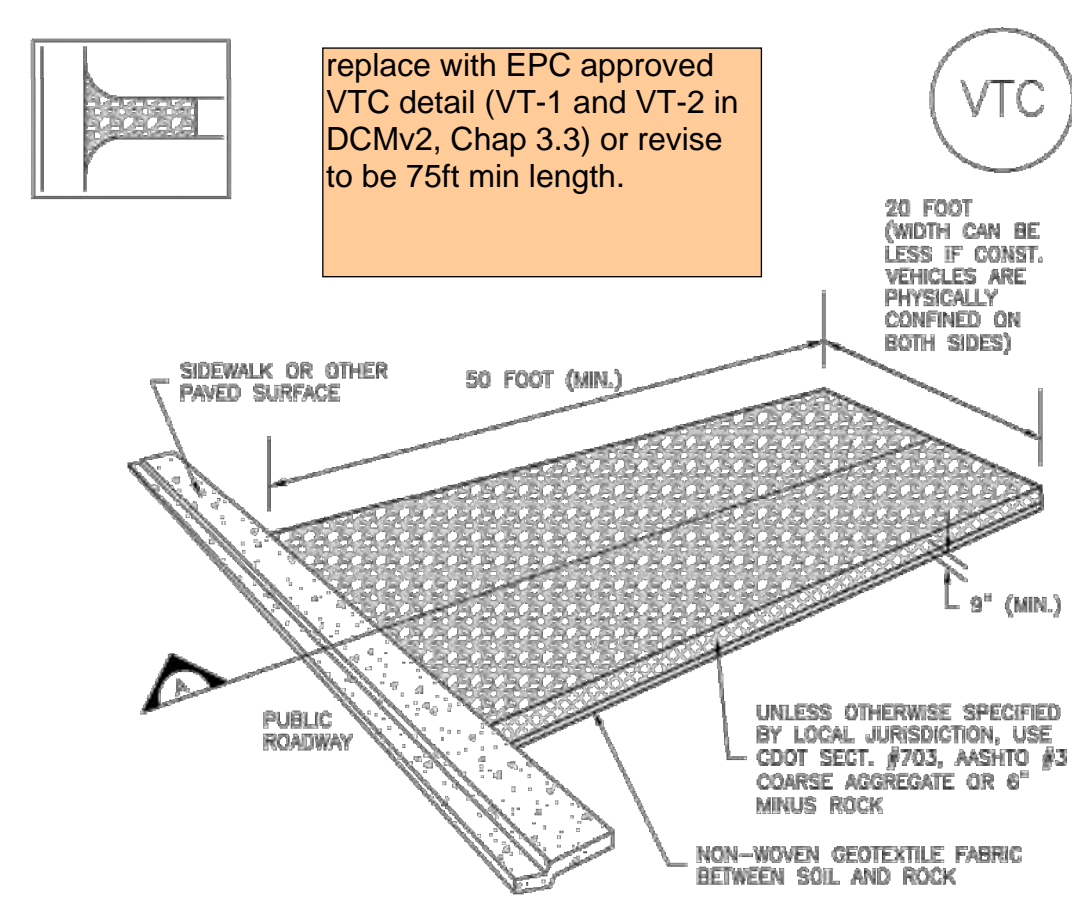
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-5

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- MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES**
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 - 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.
 - INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.
 - CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.
- 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.
- (DETAILS ADAPTED FROM AURORA, COLORADO)

SP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

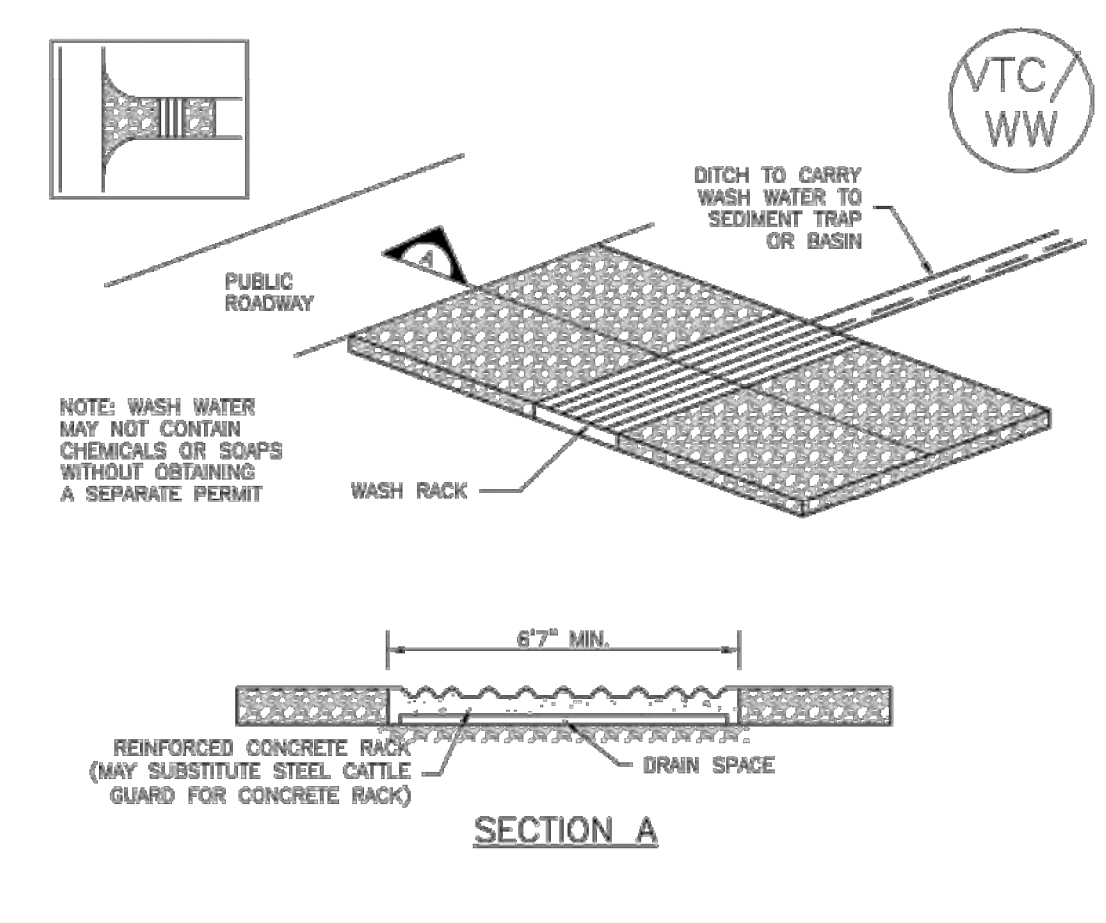
Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

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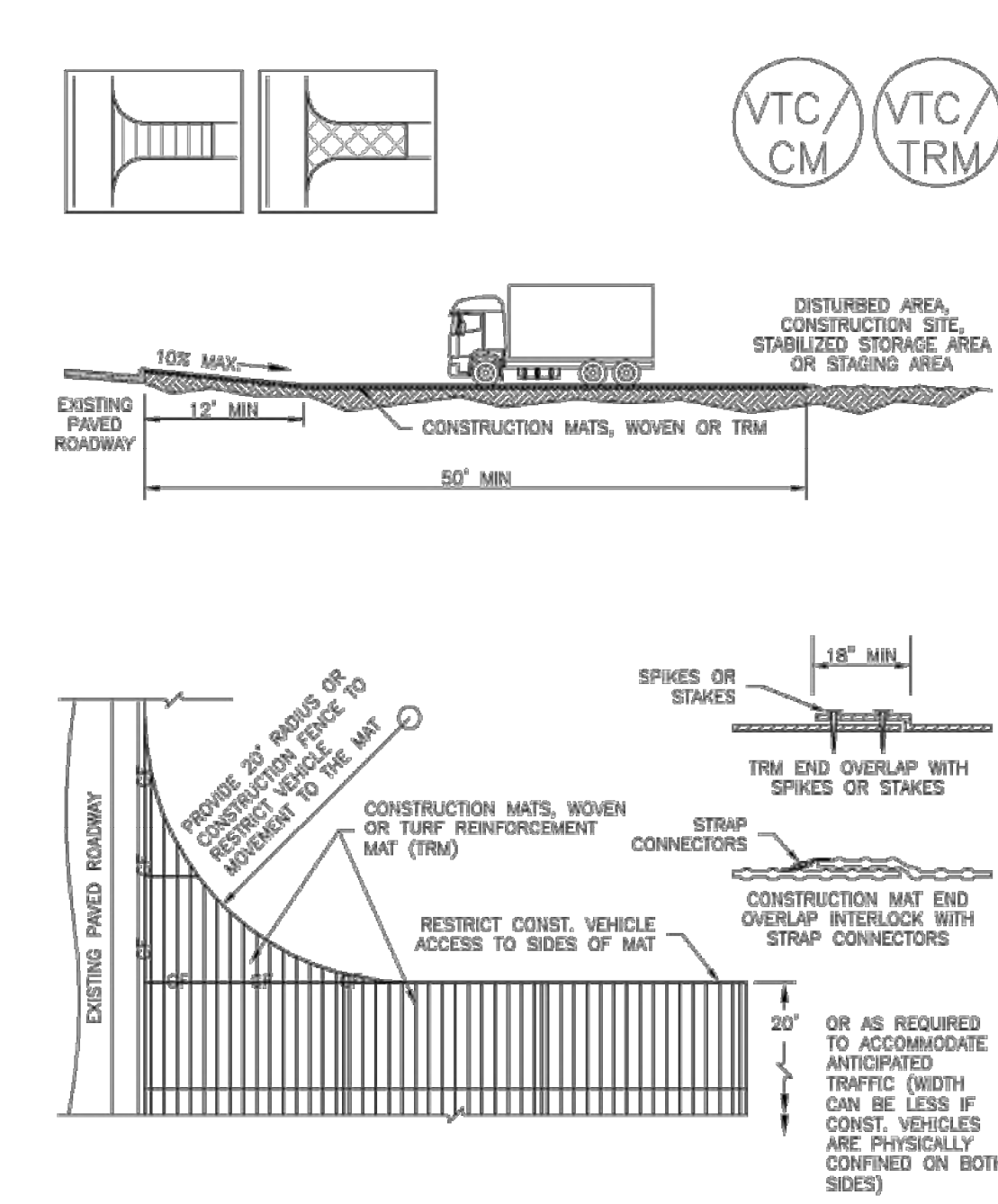
SM-4 Vehicle Tracking Control (VTC)



VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

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SM-4 Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT 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 TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- 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.
- (DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

811
Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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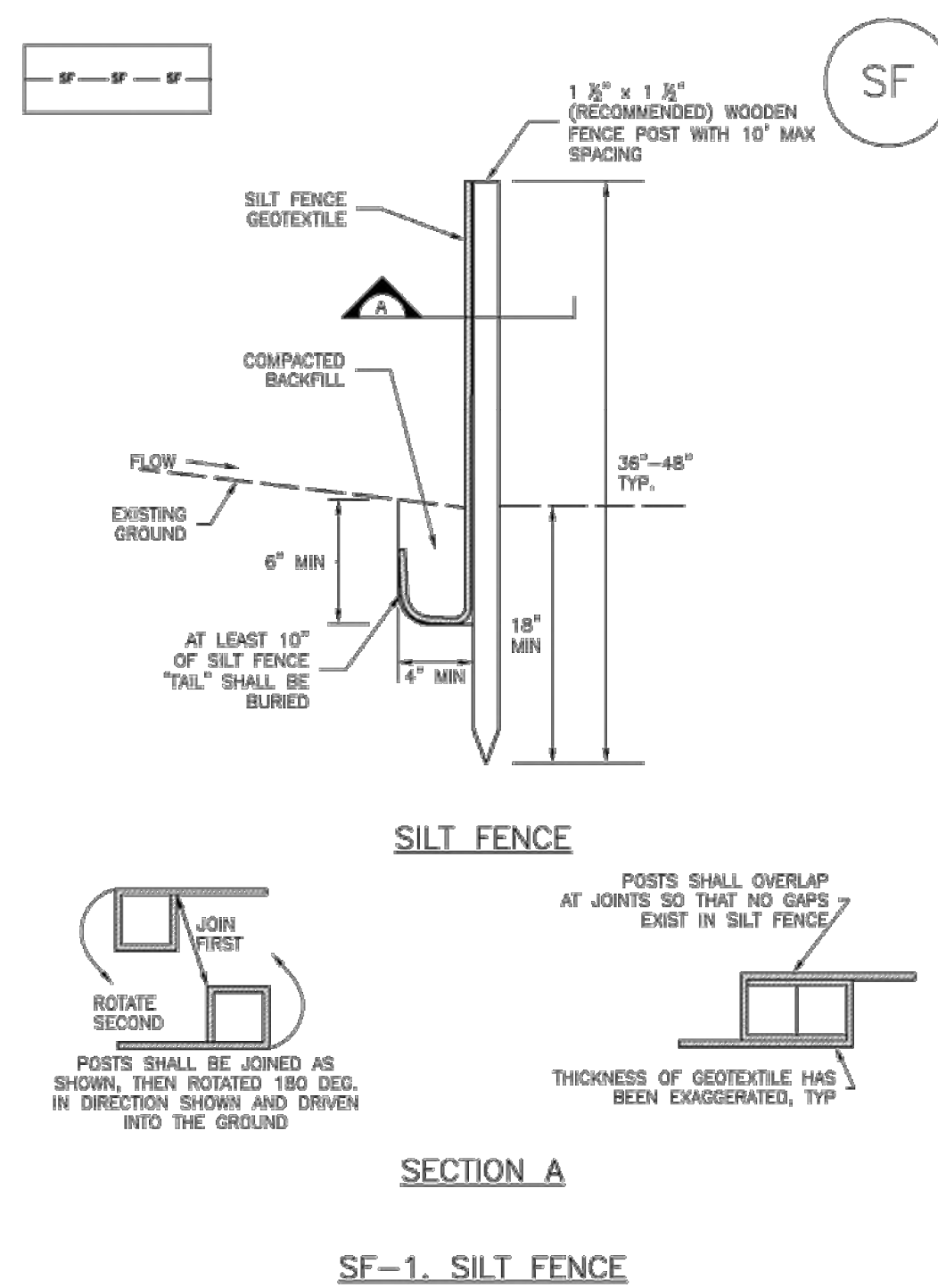
CLIENT: CHALLENGER HOMES
DATE: 8/31/2022
A 1st SUBMITTAL TO EPC 07/29/2022 - RDL

REVISIONS:

COUNTY FILE NO.: PUDSP-22-005
DR: JD CH.
P.M. RDL
JOB: 21005234
SHEET NO. 15
CAD FILE: 21005234-GECP-DETAILS.DWG

Silt Fence (SF)

SC-1



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SC-1

Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. 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. COMPACTION 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 "U-HOOK". THE "U-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.

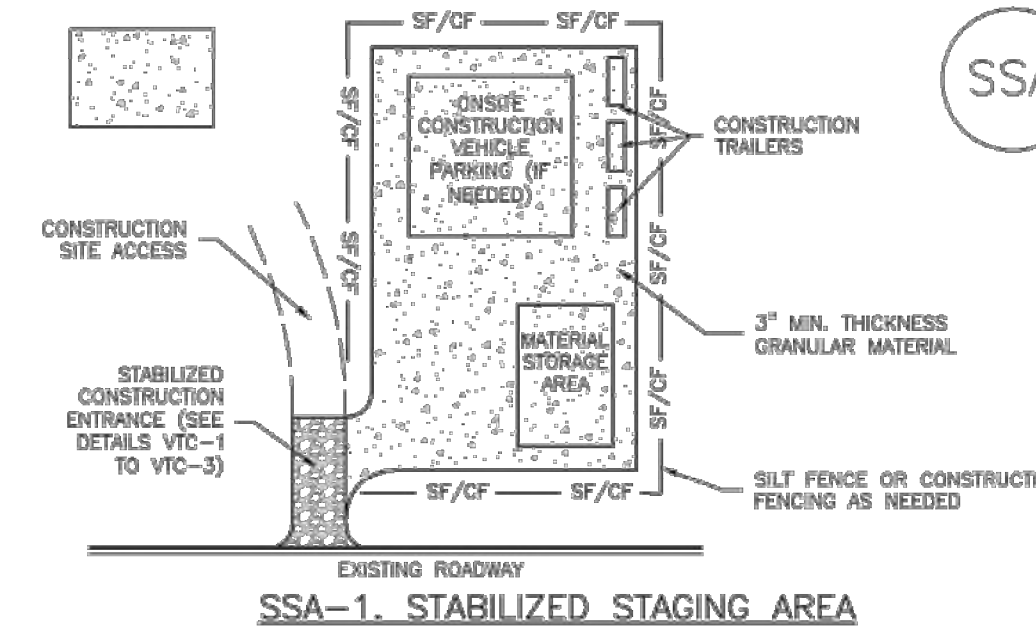
(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

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.

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Stabilized Staging Area (SSA)

SM-6



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, MSHTO #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.

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SM-6

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, 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.

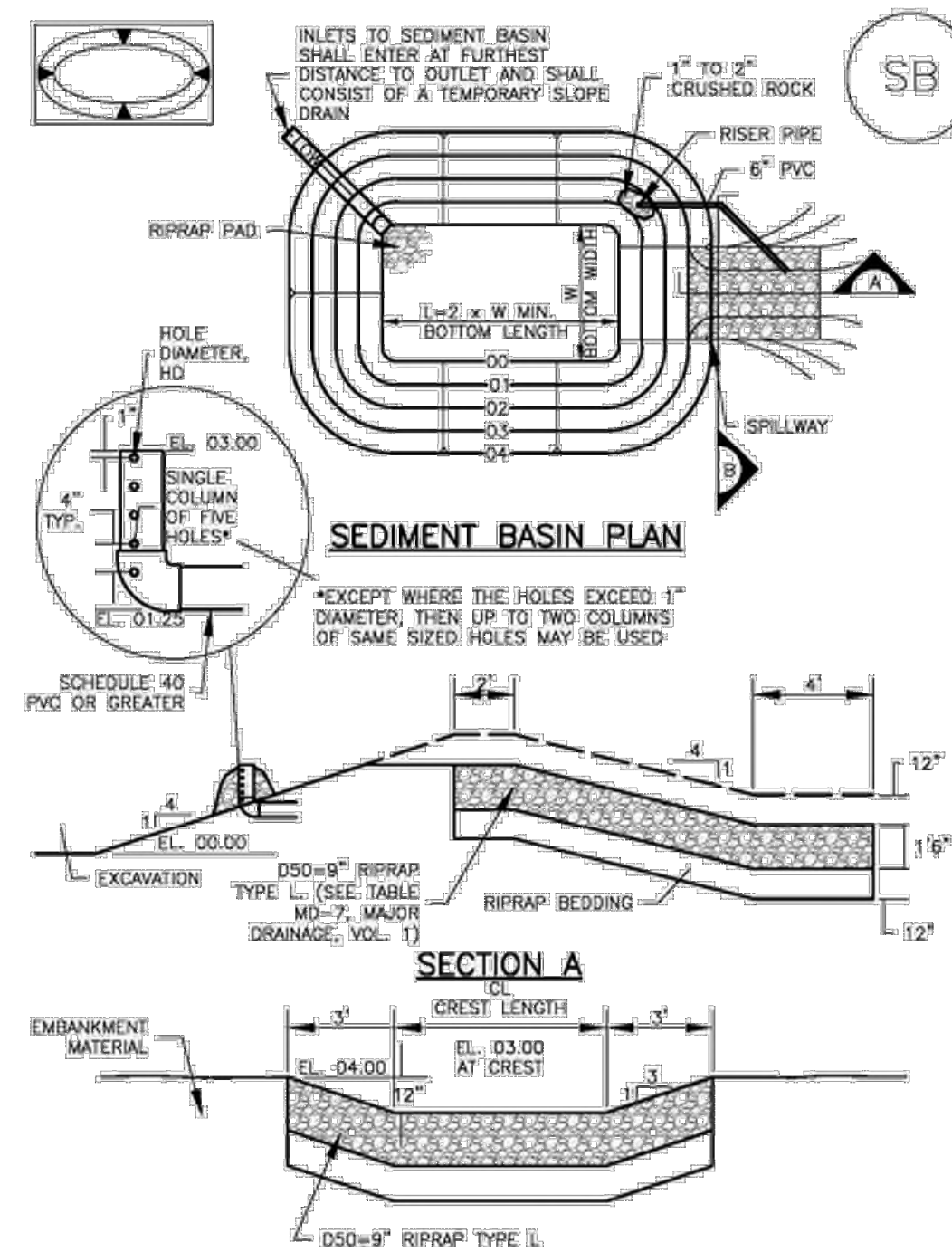
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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Sediment Basin (SB)

SC-7



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SC-7

Sediment Basin (SB)

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	9/16
2	21	3	1 1/16
3	28	5	1 1/8
4	33 1/2	6	1 1/4
5	38 1/2	8	1 3/8
6	43	9	1 1/2
7	47 1/2	11	1 5/8
8	51	12	1 3/4
9	55	13	1 7/8
10	58 1/2	15	1 15/16
11	61	16	1 7/8
12	64	18	1 15/16
13	67 1/2	19	1 7/8
14	70 1/2	21	1 15/16
15	73 1/2	22	1 7/8

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLLARS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASIN AS A STORMWATER CONTROL.
- 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 D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, GUTTER, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Sediment Basin (SB)

SC-7

SEDIMENT BASIN 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 IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

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.

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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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 DETAIL GFCP

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DATE 8/31/2022

A 1st SUBMITTAL TO EPC 07/29/2022 - RDL

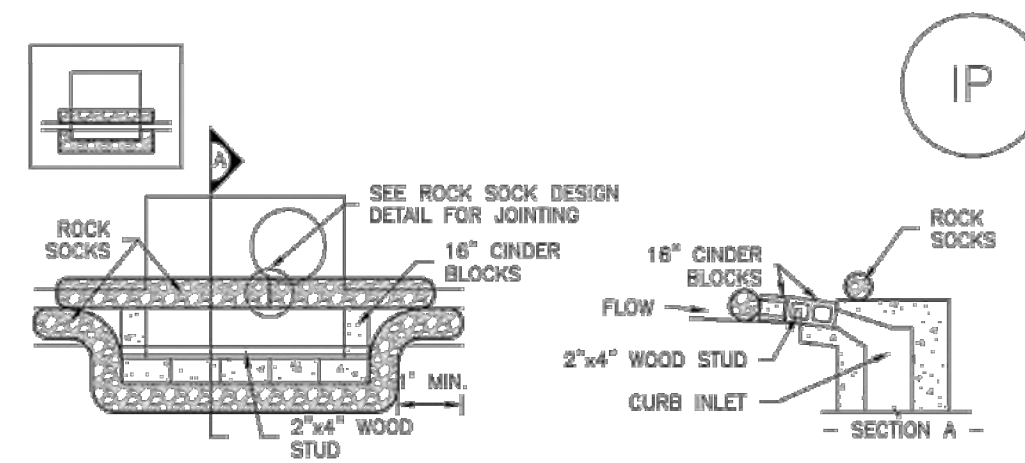
REVISIONS

COUNTY FILE NO.: PUDSP-22-005

DR. JD CH.
 P.M. RDL

JOB 21005234
 SHEET NO.

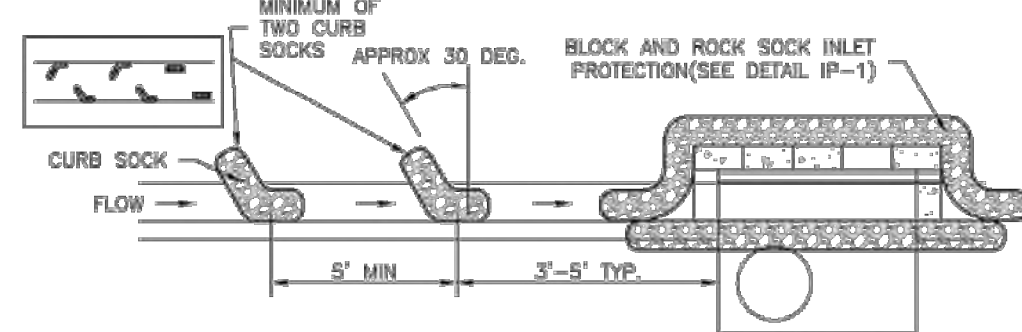
SC-6 Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
3. GRVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



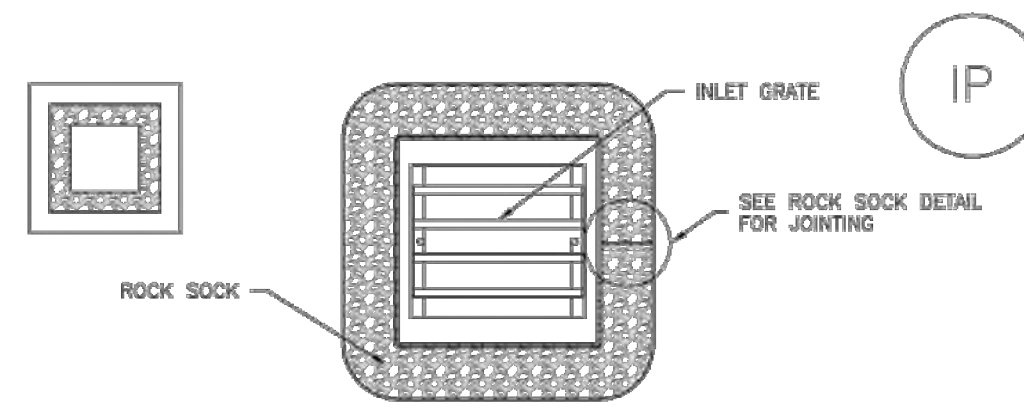
IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

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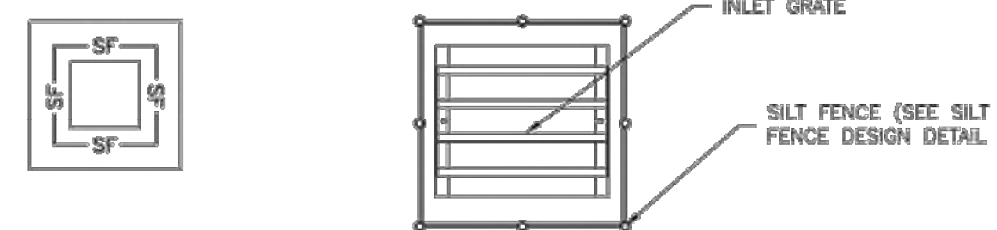
Inlet Protection (IP) SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



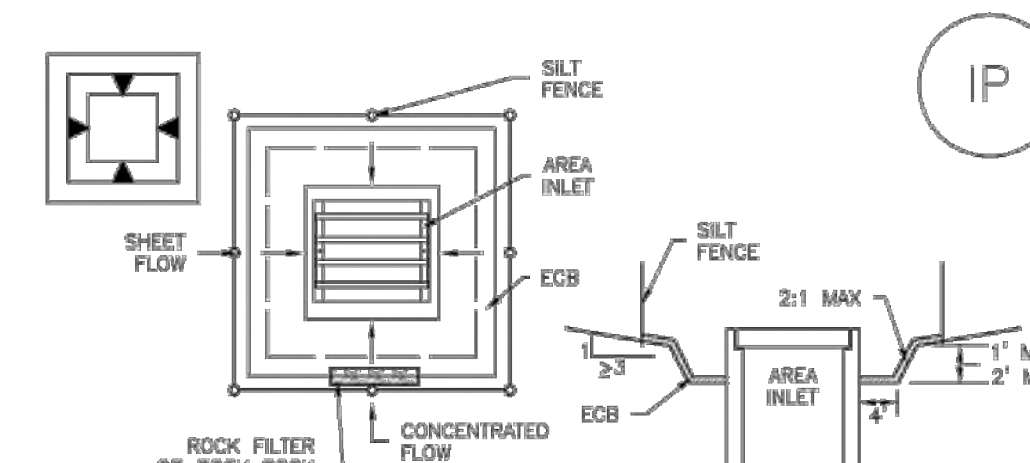
IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

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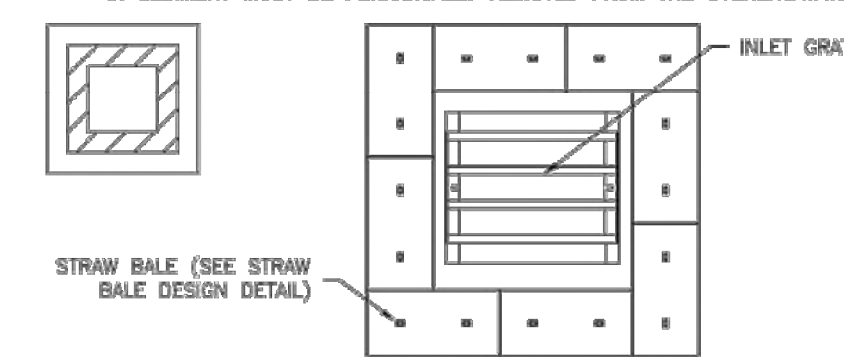
SC-6 Inlet Protection (IP)



IP-5. OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.
2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.
3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.



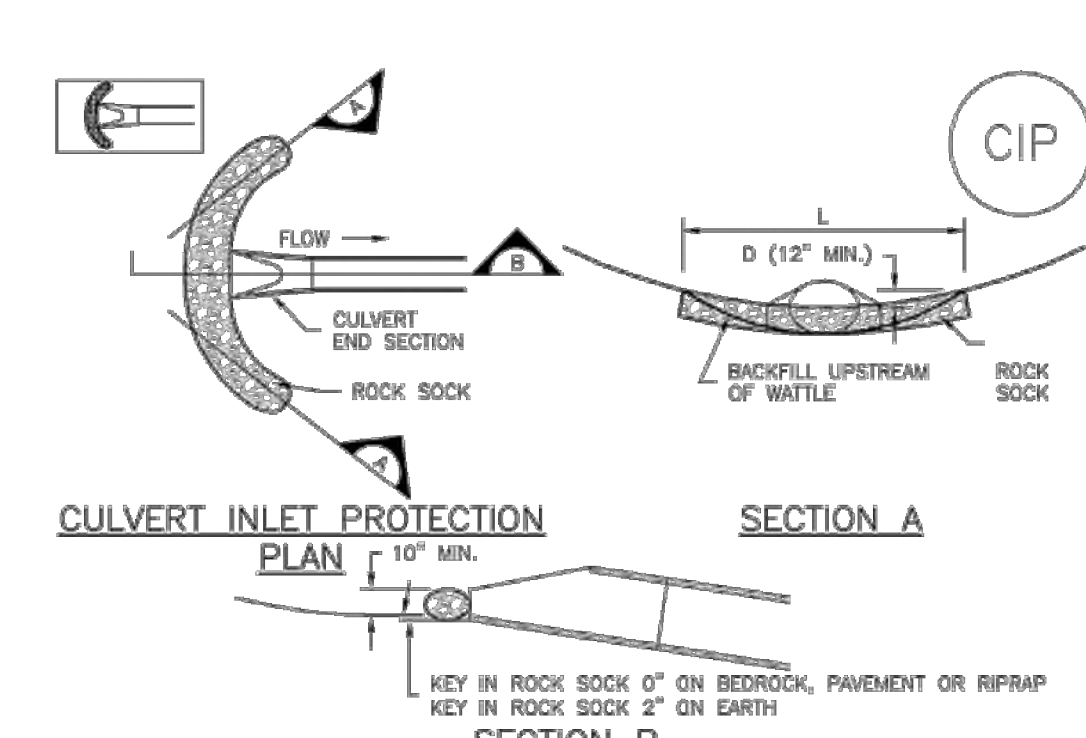
IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

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Inlet Protection (IP) SC-6



CIP-1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF CULVERT INLET PROTECTION.
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM 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.

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Urban Storm Drainage Criteria Manual Volume 3

include seeding and mulching details and seed mix



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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CHALLENGER HOMES
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EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
DETAIL GPCP

CLIENT DATE 8/31/2022

1st SUBMITTAL TO EPIC 07/29/2022 - RDL

NO.	REVISIONS

COUNTY FILE NO.: PUDSP-22-005

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