

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

- COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD-PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

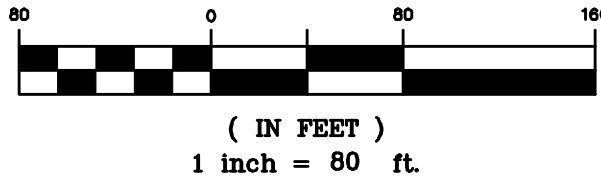
VICINITY MAP
1" = 1,000'

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.
4. THE USE OF CONSTRUCTION OFFICE TRAILERS REQUIRE PCD PERMITTING.
5. NO DEWATERING OPERATIONS ARE ANTICIPATED AT THIS TIME. IF THE CONTRACTOR DISCOVERS GROUNDWATER, ALL CONSTRUCTION SHALL STOP UNTIL PROPER PROCEDURES APPROVED BY THE ENGINEER OF RECORD AND EL PASO COUNTY ARE PUT IN PLACE.
6. THERE IS NO PROPOSED OFFSITE DISTURBANCE AND THERE ARE NO OFFSITE STORMWATER CONTROL MEASURES PROPOSED.
7. THERE ARE NO PROPOSED RETAINING WALLS LOCATED WITHIN COUNTY RIGHT-OF-WAY.
8. STRUCTURAL CONTROL MEASURES INCLUDE PONDS 1, 2, AND WU AND PROPOSED GRASSLINED SWALE.

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

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 FOUND3-1/4" ALUMINUM CAP STAMPED "AZTEC CONSULTANTS
PLS 38256" AND AT THE NORTH END BY A FOUND 3-1/4"
ALUMINUM CAP STAMPED "PLS 4842".

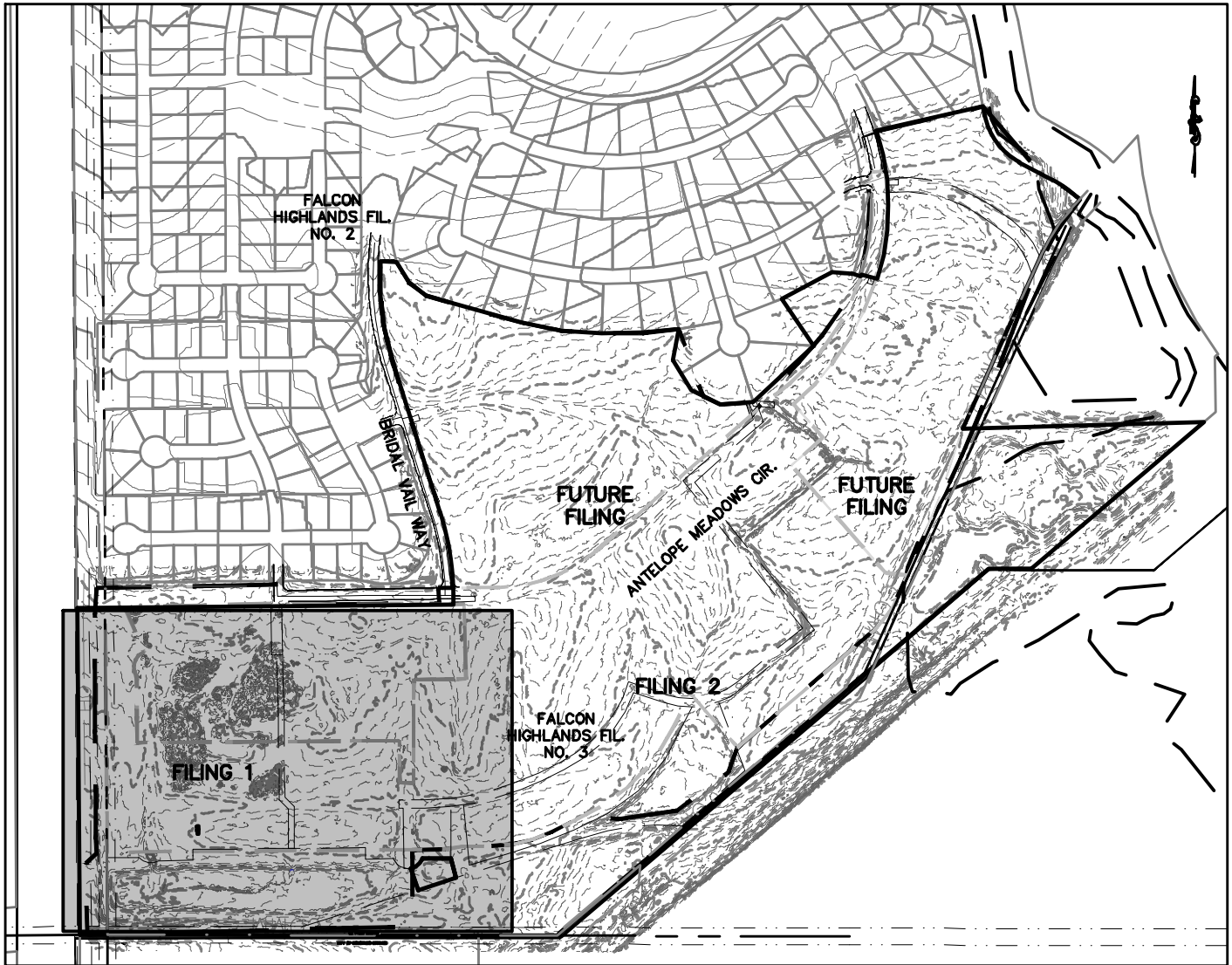




GRADING AND EROSION CONTROL LEGEND		
(SF)	---	SILT FENCE
(IPO)		ON-GRADE INLET PROTECTION
(IPS)		SUMP INLET PROTECTION
(RRC)		CULVERT PROTECTION
(VTC)		VEHICLE TRACKING CONTROL
(CWA)		CONCRETE WASHOUT AREA
(SSA)		STABILIZED STAGING AREA
(SM)		SEEDING AND MULCHING
(LOC)	---	LIMITS OF CONSTRUCTION/DISTURBANCE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

GRADING AND EROSION CONTROL NOTES:

1. SILT FENCE TO BE REMOVED AFTER PLACEMENT OF ECB OR SEEDING & MULCHING OF LOTS HAS REACH 70% VEGETATION AND BEEN APPROVED BY THE EPC STORMWATER INSPECTOR.
2. INLET PROTECTION TO BE REMOVED AFTER DEVELOPMENT AND STABILIZATION OF LOTS.
3. VTC TO BE REMOVED UPON COMPLETION OF PAVING OPERATIONS.
4. SEE COVER SHEET FOR EL PASO COUNTY STANDARD GRADING & EROSION PLAN NOTES.
5. SHADED BMP'S WERE INSTALLED IN INITIAL OR INTERIM STAGES AND SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
6. 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.



LEGEND	
---	EXISTING LOT LINES
---	EXISTING CONTOURS
---	INITIAL PHASE DRAINAGE FLOW ARROWS
---	EXISTING ROW
---	EXISTING UTILITY EASEMENT
---	FILING 1 BOUNDARY
---	FILING 2 BOUNDARY
---	FUTURE FILING

LEGEND CONTINUED	
---	SECTION LINES
---	SB OVERFLOW SPILLWAY PROTECTION

BENCHMARK:
ELEVATIONS ARE BASED UPON SW COR SEC. 12, T13S, R65W, 6TH PM, FND. 3.25" ALUM. CAP.
(ELEVATION: 6810.43=NAV88).

BASIS OF BEARINGS:
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Know what's below.
Call before you dig.

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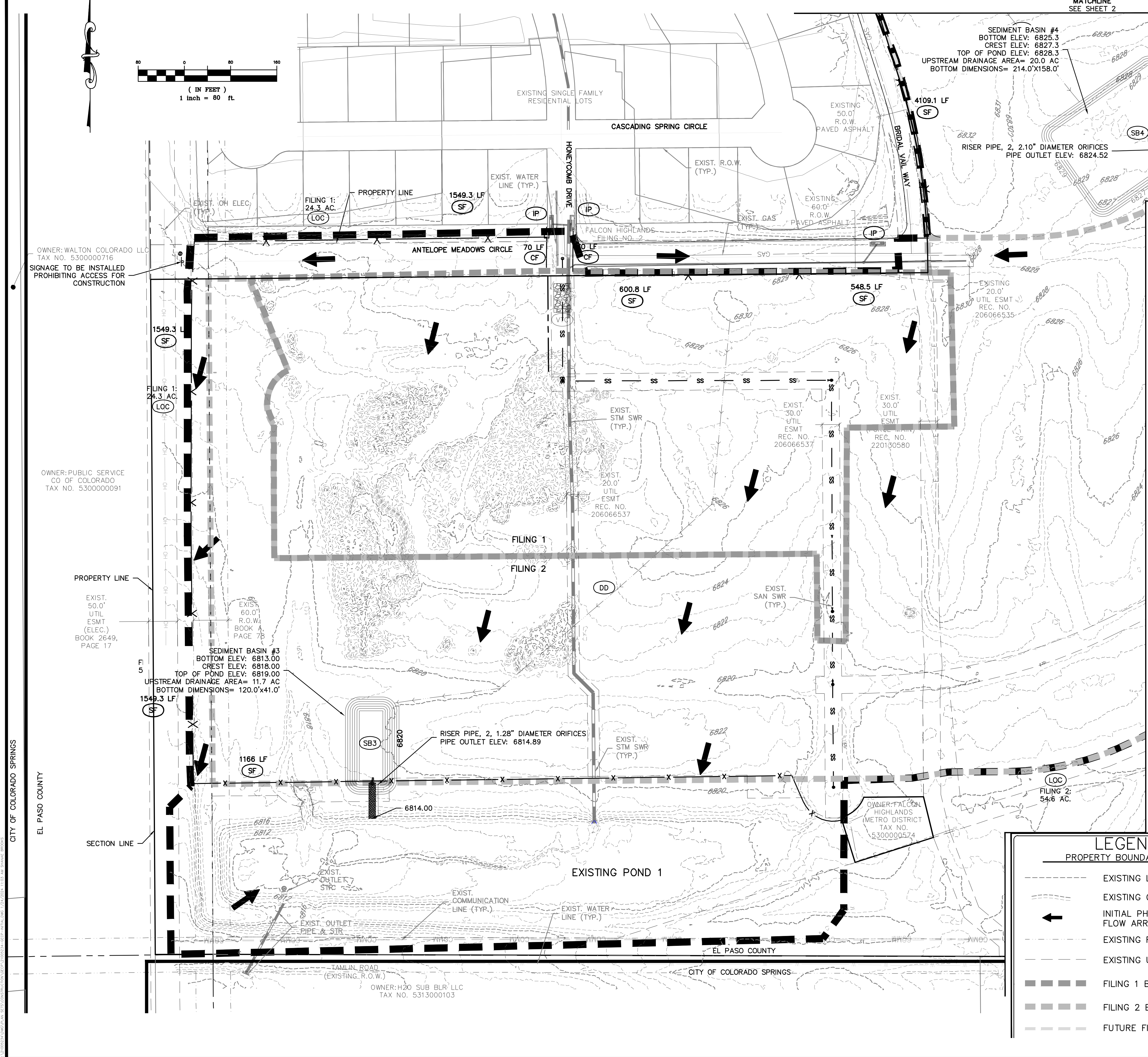
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LAKEWOOD, CO 80228
303.462.1100

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	GRADING AND EROSION CONTROL PLAN INITIAL GEP
DATE	03/14/2022	
A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/31/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL
REVISIONS		
COUNTY FILE NO.: PUDSP-22-005		
DR.	JD	CH.
P.M.	RDL	
JOB	21005234	
SHEET NO.	3	

CAD FILE: 21005234-GECP-INITIAL.DWG





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CHALLENGER HOMES
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GRADING AND EROSION CONTROL PLAN
INITIAL GECP

CLIENT

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REVISIONS



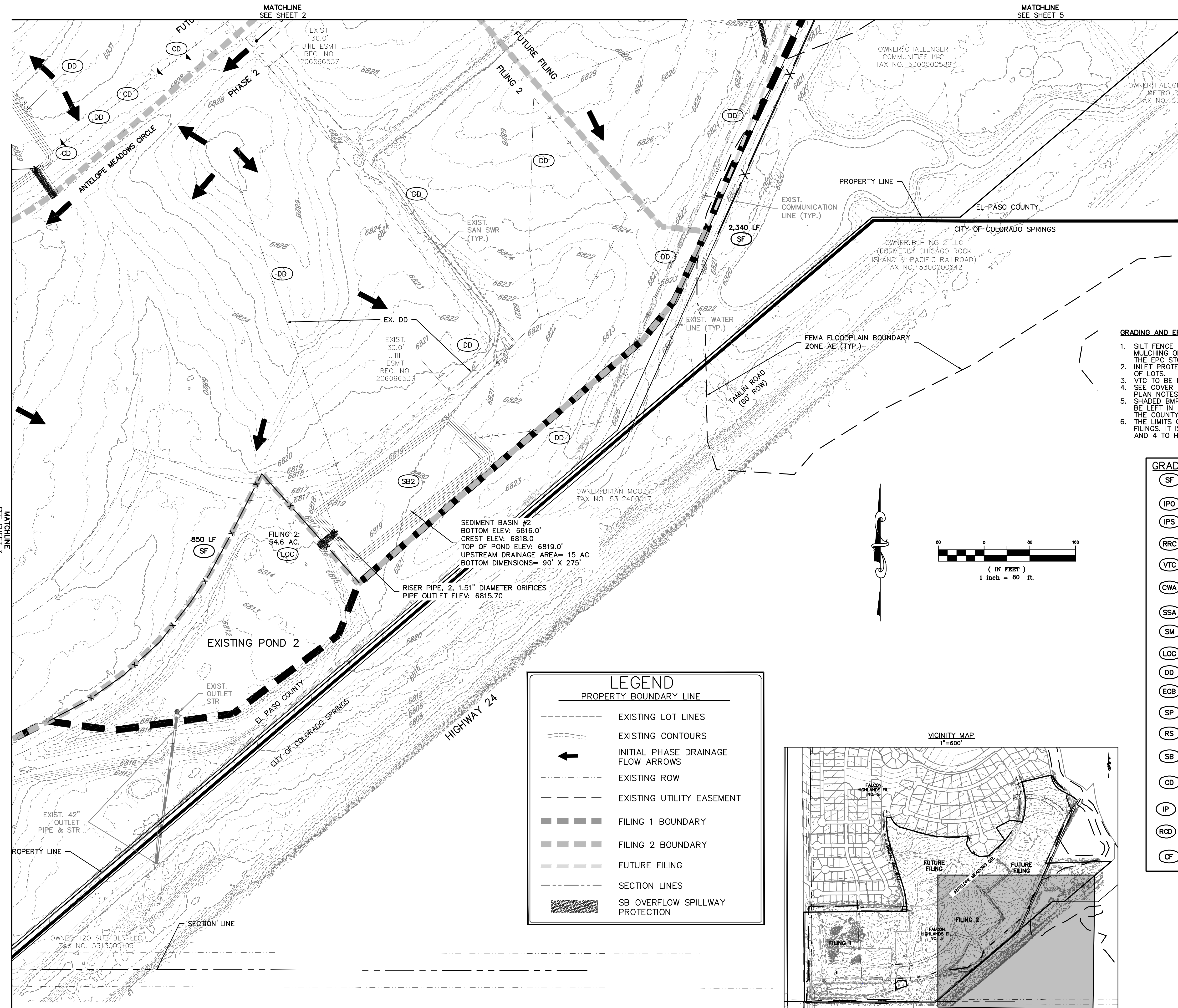
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DR. JD CH.
P.M. RDL

JOB 21005234
SHEET NO.

4

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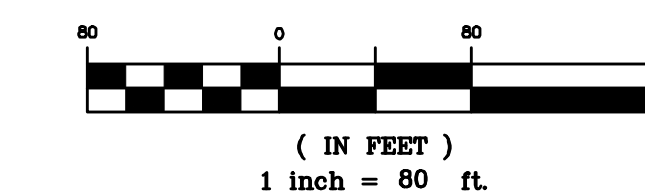


GRADING AND EROSION CONTROL NOTES:

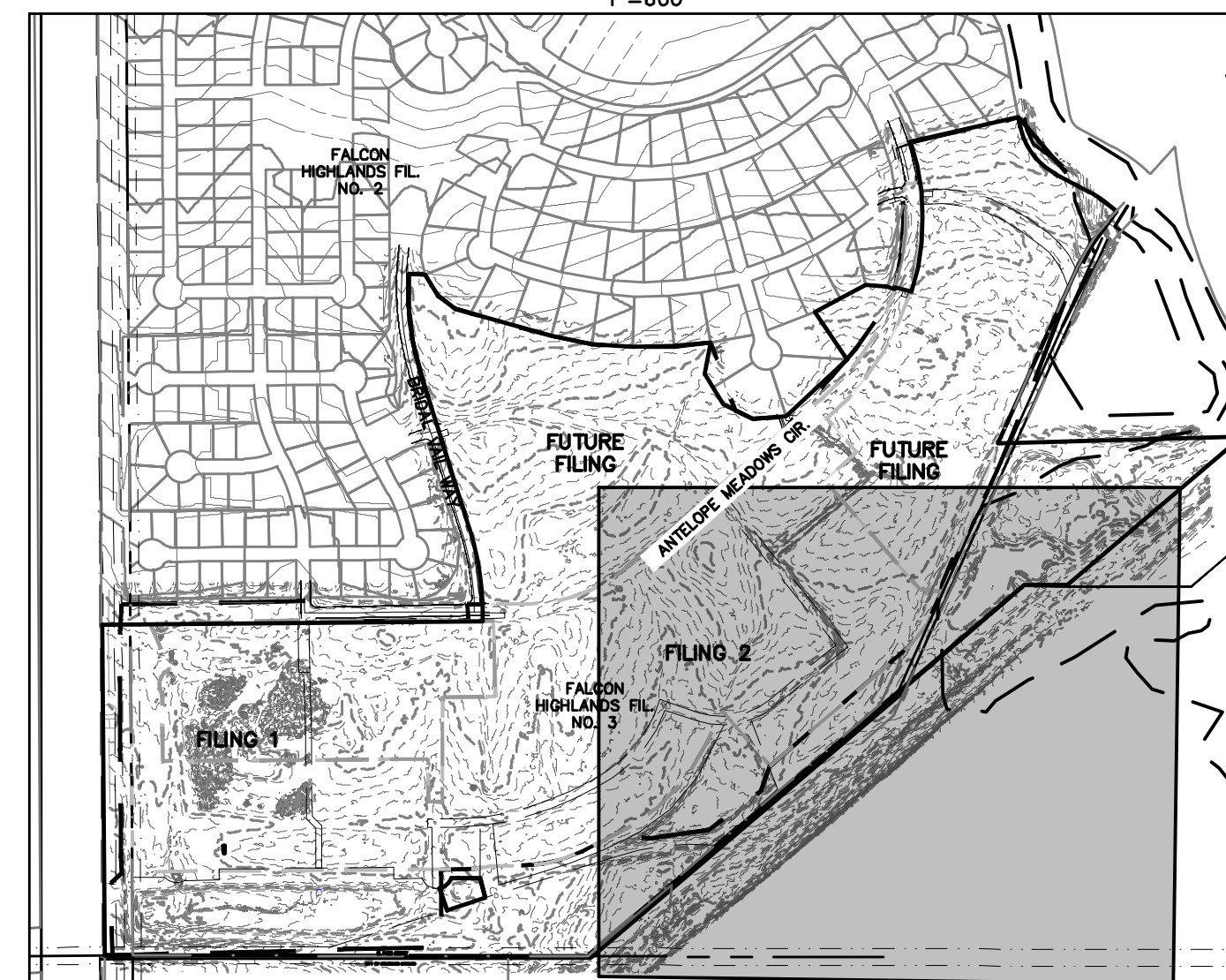
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(SF)		SILT FENCE
(IPO)		ON-GRADE INLET PROTECTION
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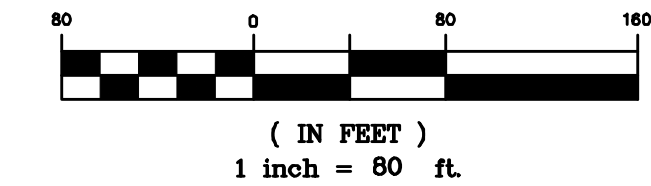
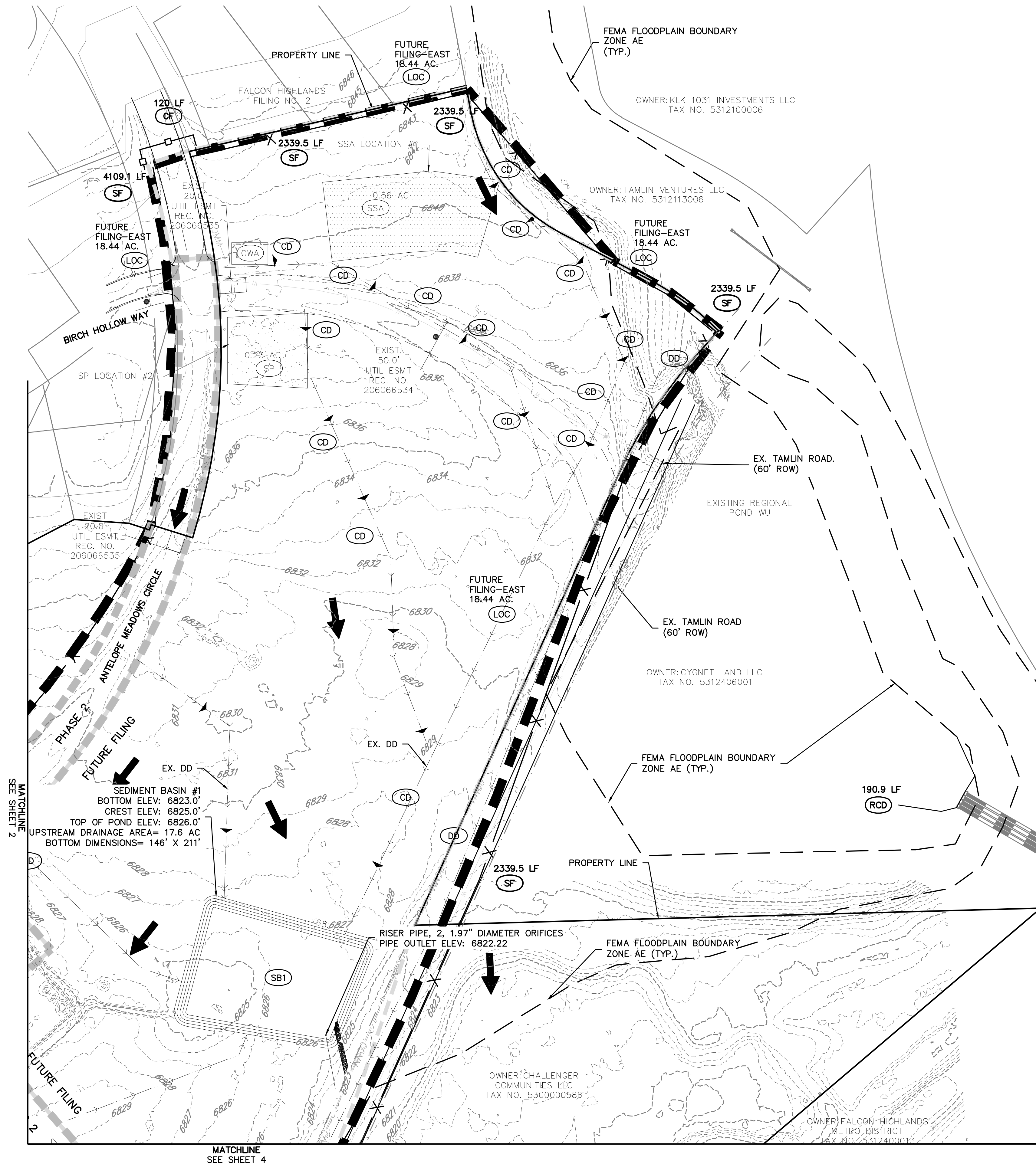
VICINITY MAP
1"=600'



BENCHMARK:
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GRADING AND EROSION CONTROL LEGEND

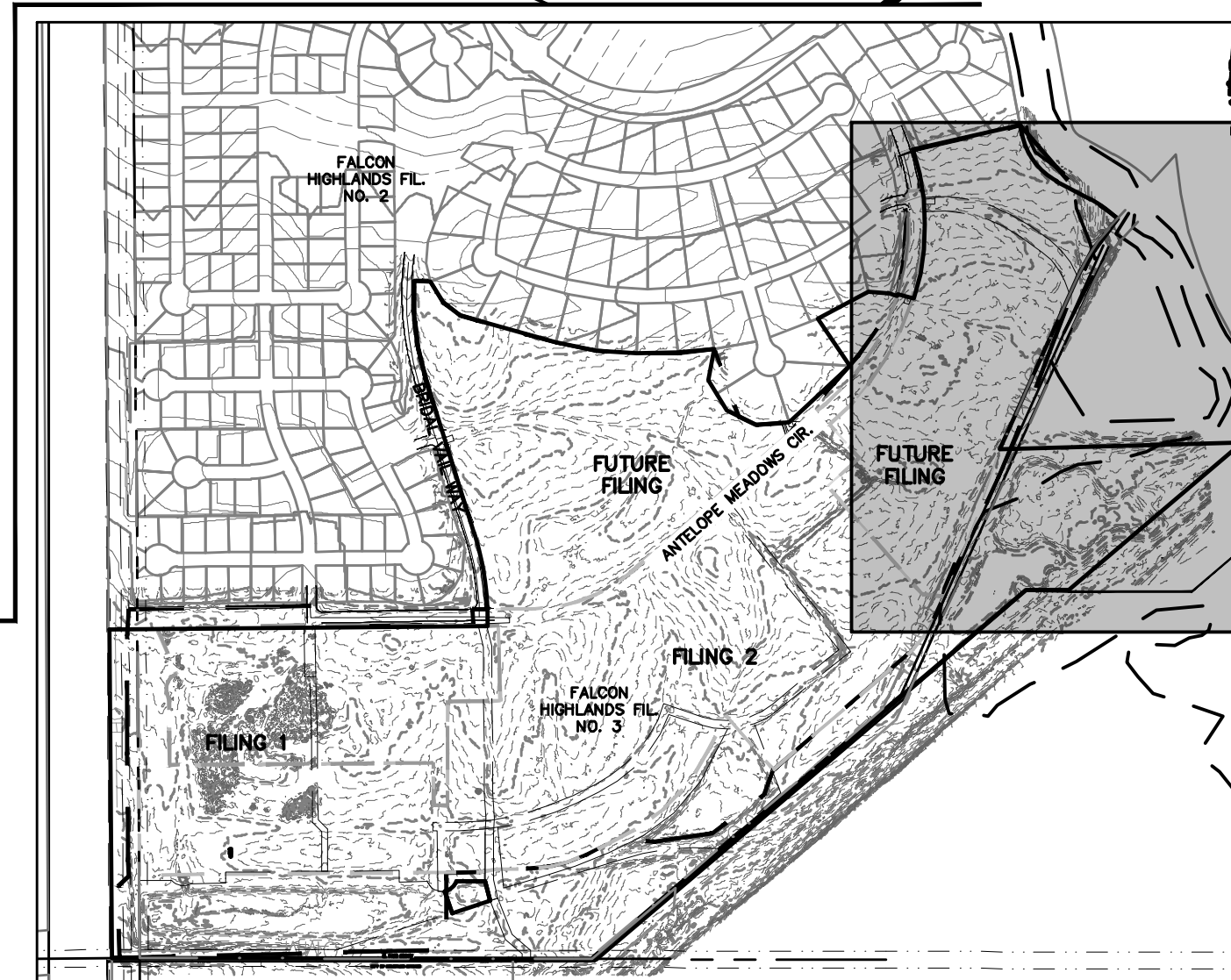
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LEGEND

PROPERTY BOUNDARY LINE	
	EXISTING LOT LINES
	EXISTING CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	EXISTING ROW
	EXISTING UTILITY EASEMENT
	FILING 1 BOUNDARY
	FILING 2 BOUNDARY
	FUTURE FILING
	SECTION LINES
	SB OVERFLOW SPILLWAY PROTECTION

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VICINITY MAP
1"=600'



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INITIAL GECP

CLIENT
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REVISIONS
36834
01/24/24
PROFESSIONAL ENGINEER

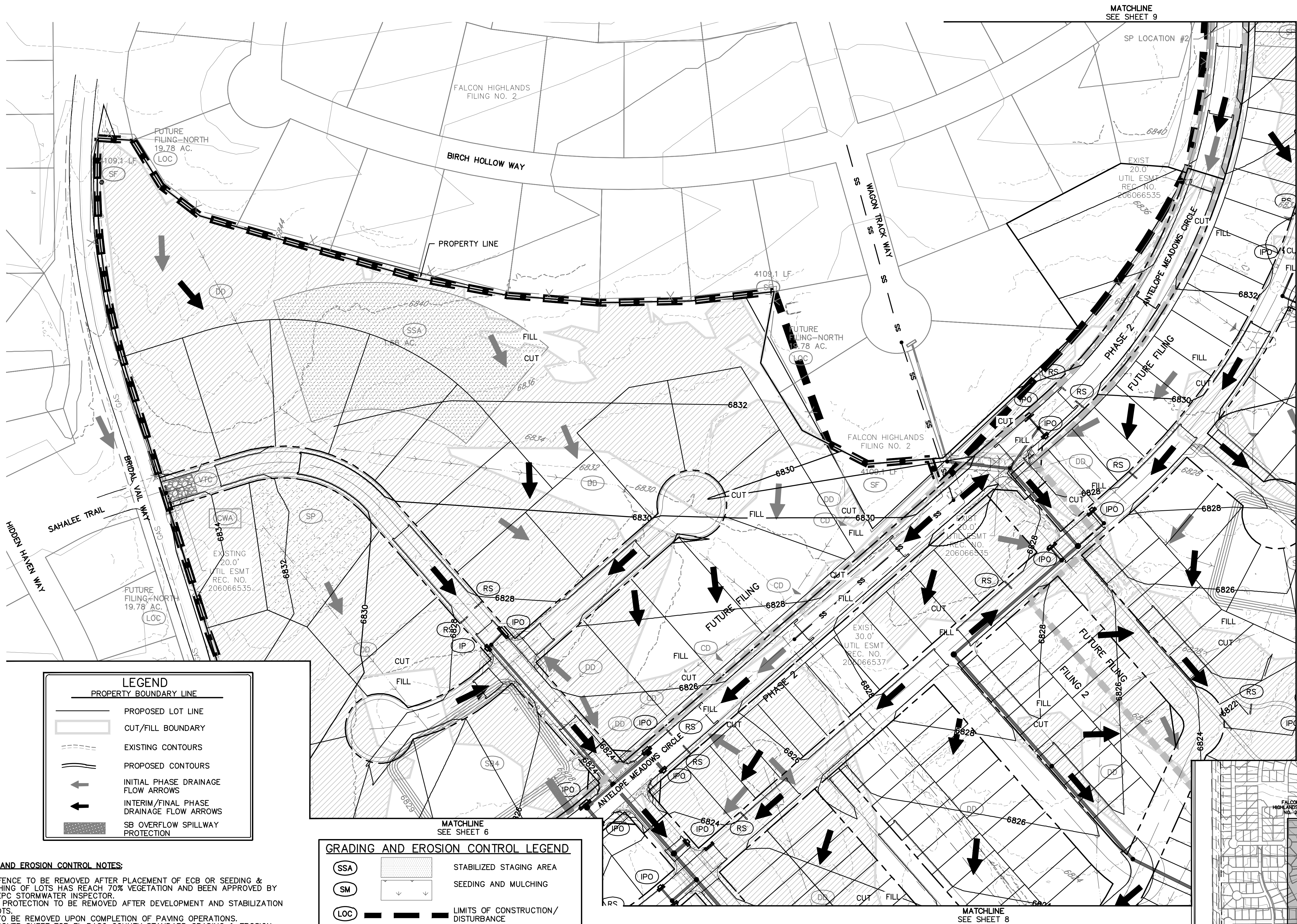
COUNTY FILE NO.:
PUDSP-22-005

DR: JD CH:
P.M. RDL

JOB: 21005234
SHEET NO.
5

CAD FILE: 21005234-SECP-INITIAL.DWG

\\P001\proj\21005234\21005234-GRD-INT-GRD.DWG 2/1/2024 10:30 AM SHAWN BROWN



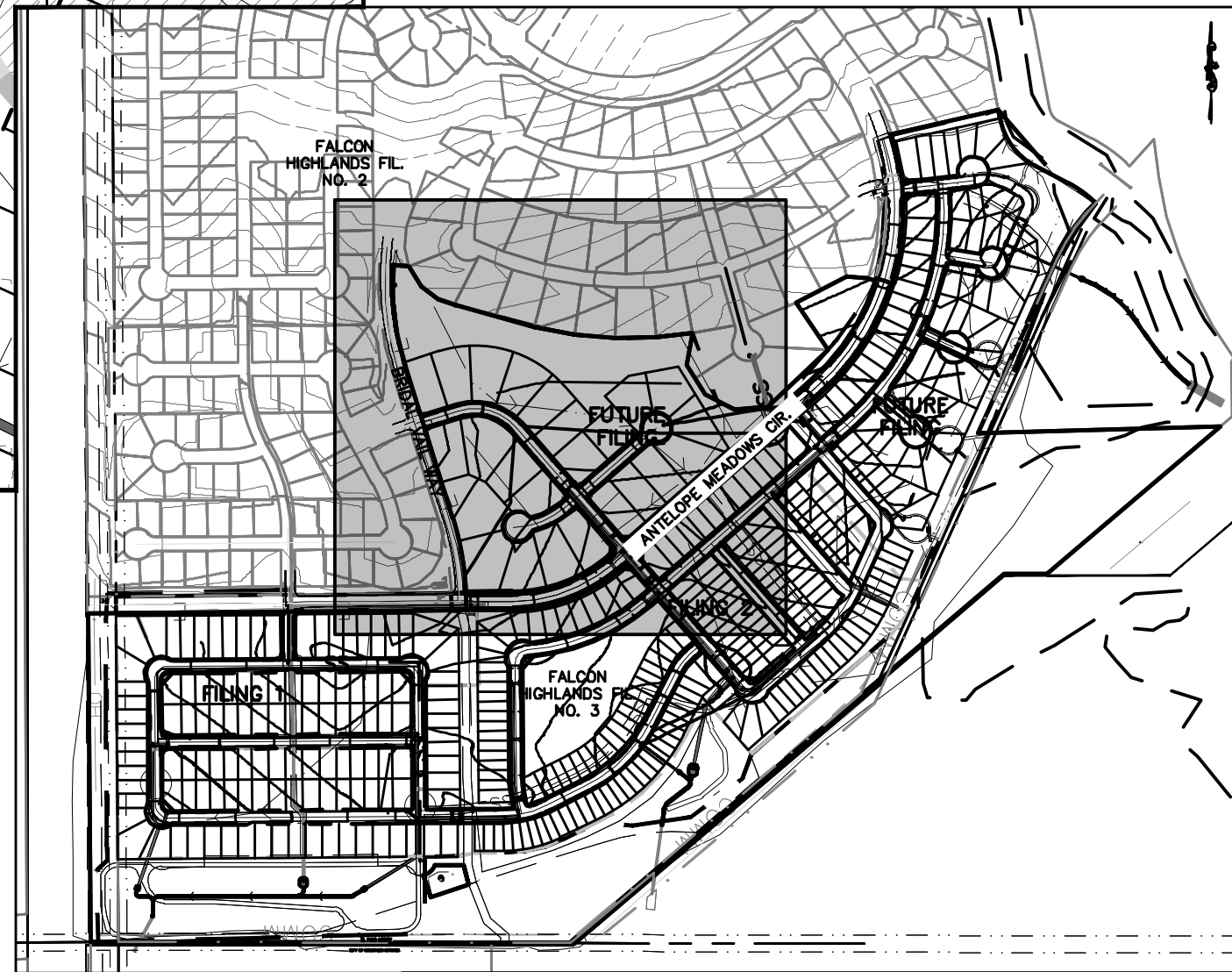
LEGEND	
PROPERTY BOUNDARY LINE	
	PROPOSED LOT LINE
	CUT/FILL BOUNDARY
	EXISTING CONTOURS
	PROPOSED CONTOURS
	INITIAL PHASE DRAINAGE FLOW ARROWS
	INTERIM/FINAL PHASE DRAINAGE FLOW ARROWS
	SB OVERFLOW SPILLWAY PROTECTION

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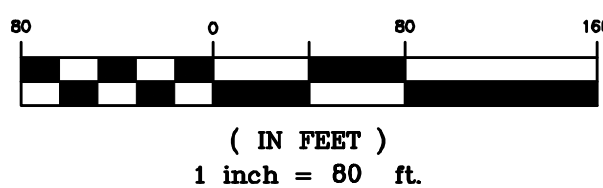
GRADING AND EROSION CONTROL LEGEND

	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
	SF	SILT FENCE
	RRC	RRB FOR CULVERT PROTECTION
	IPS	SUMP INLET PROTECTION



BENCHMARK:
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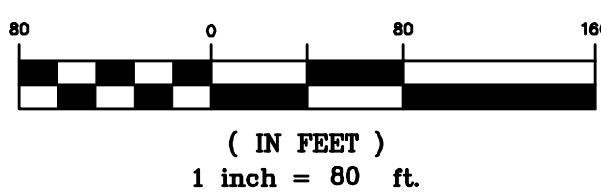
REVISIONS

COUNTY FILE NO.: PUDSP-22-005

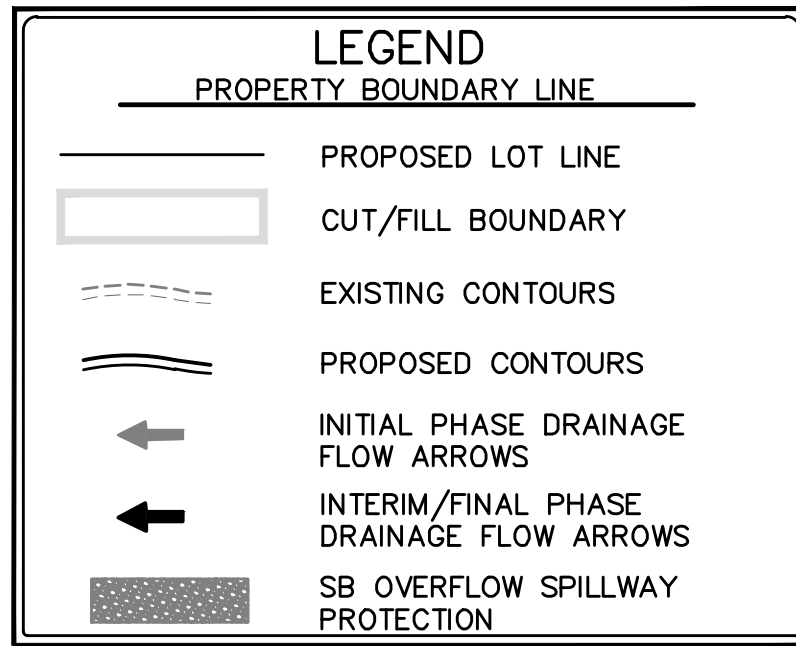
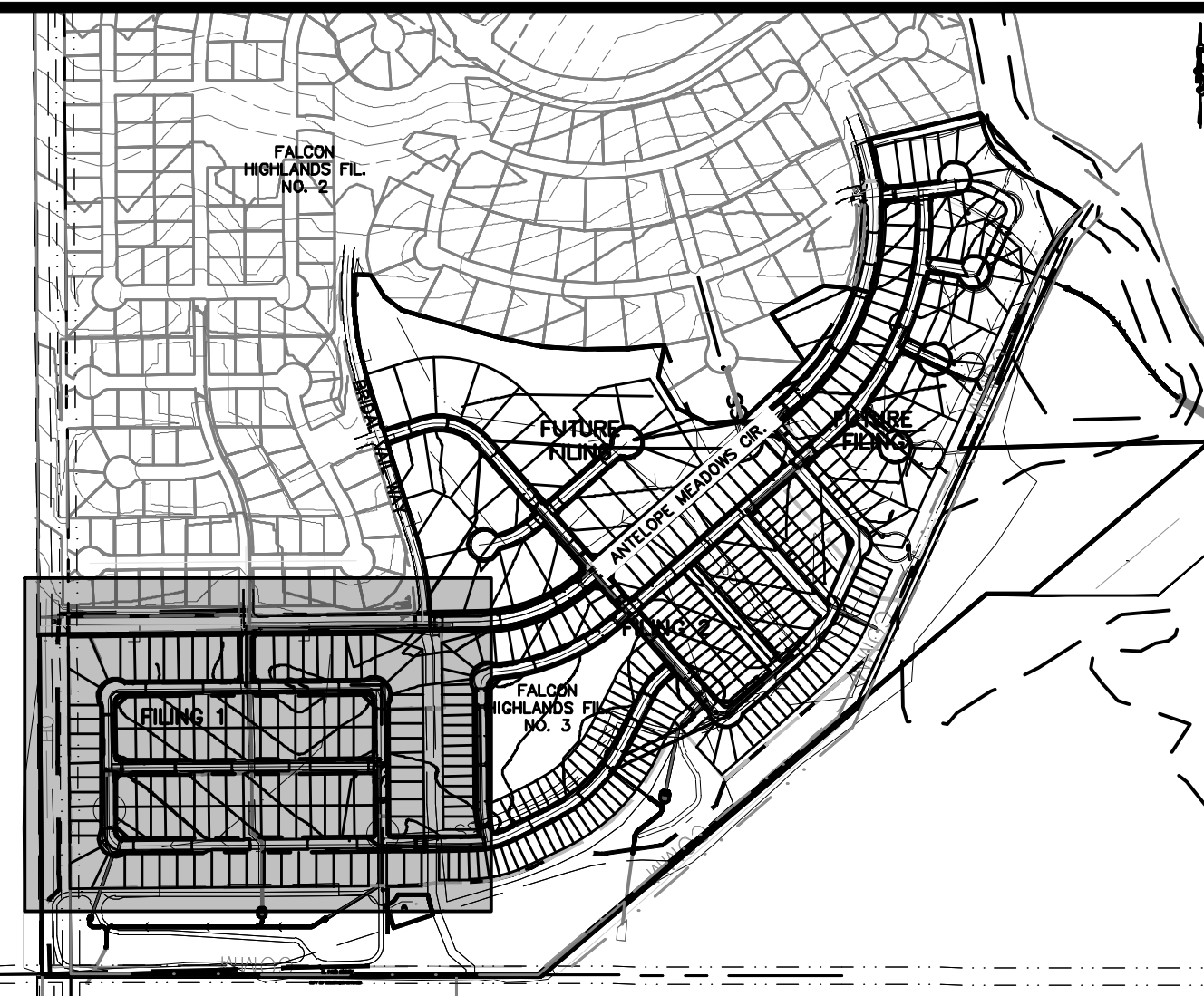
DR:	JD	CH:
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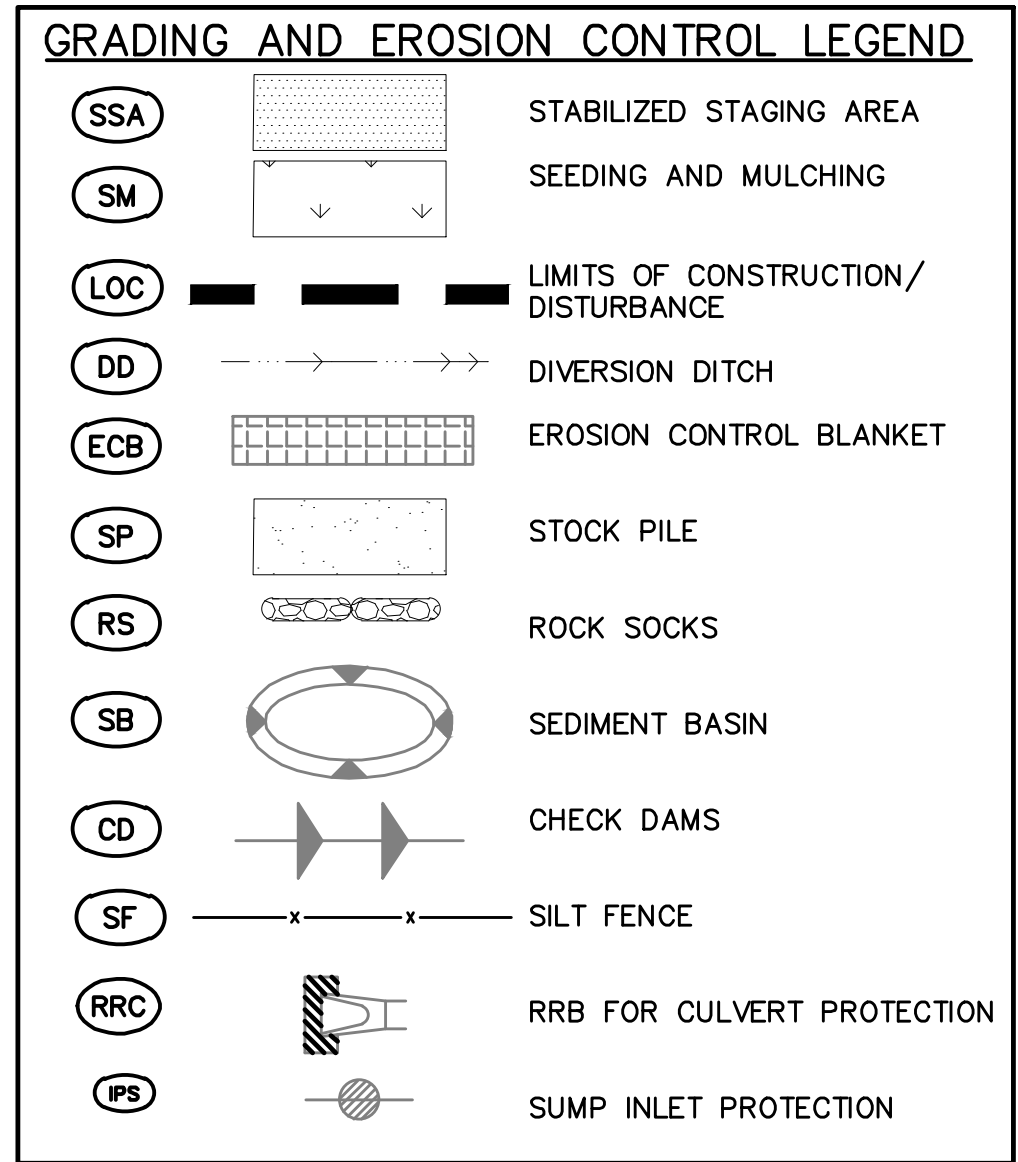


MATCHLINE
SEE SHEET 7



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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
INTERIM GEOP

DATE: 03/14/2022

A	1st SUBMITTAL TO EPC	03/14/2022 - RDL
B	2nd SUBMITTAL TO EPC	08/31/2022 - RDL
C	3rd SUBMITTAL TO EPC	04/18/2023 - RDL
D	4th SUBMITTAL TO EPC	07/20/2023 - RDL

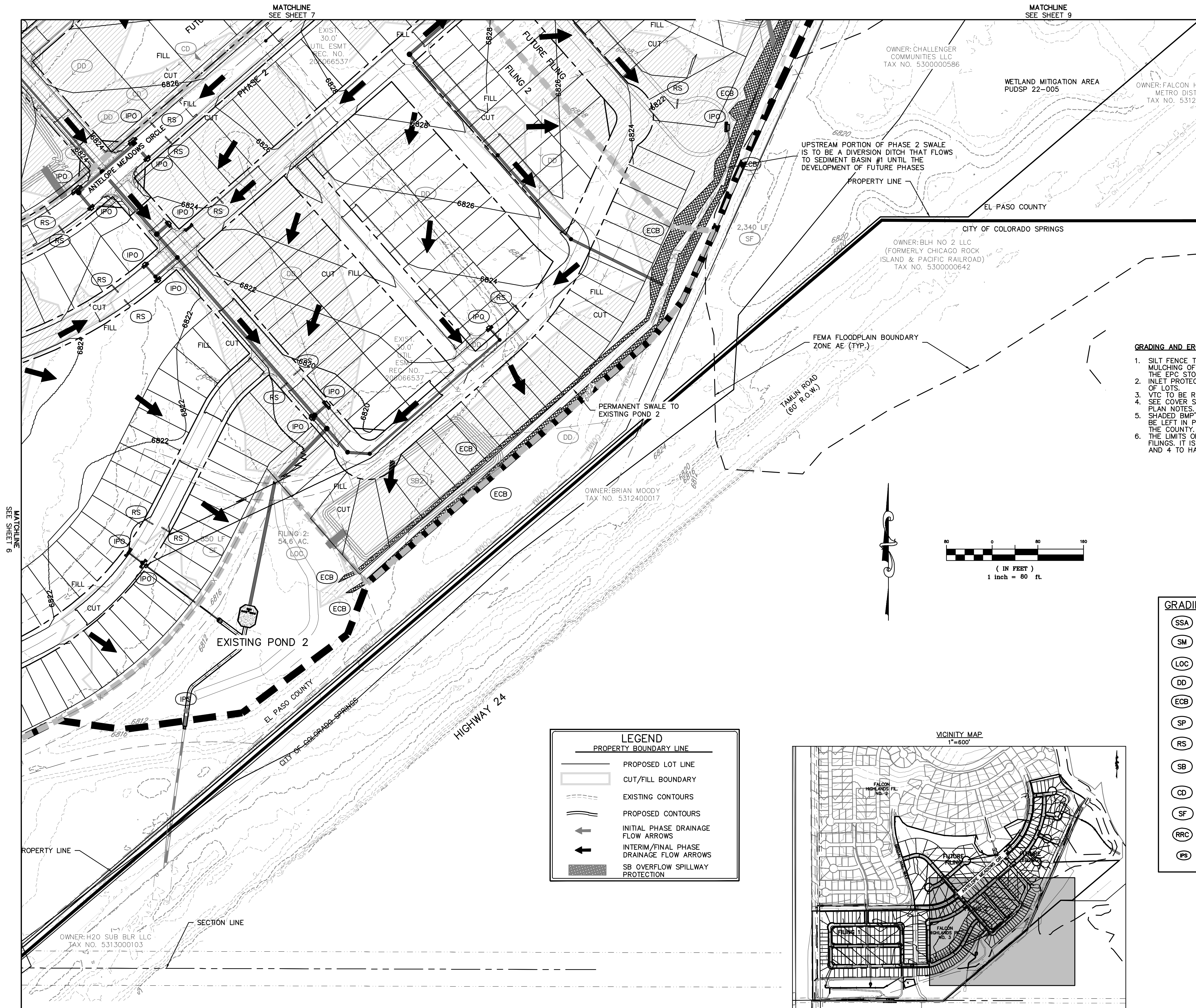
REVISIONS

COUNTY FILE NO.: PUDSP-22-005

DR:	JD	CH:
P.M.:	RDL	

JOB: 21005234
SHEET NO. 6

CAD FILE: 21005234-GEOP-INTERIM.DWG



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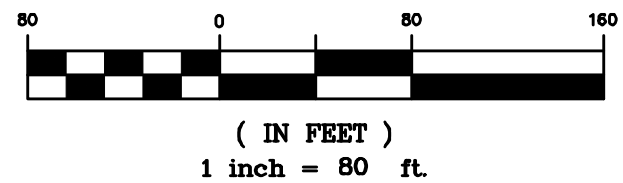
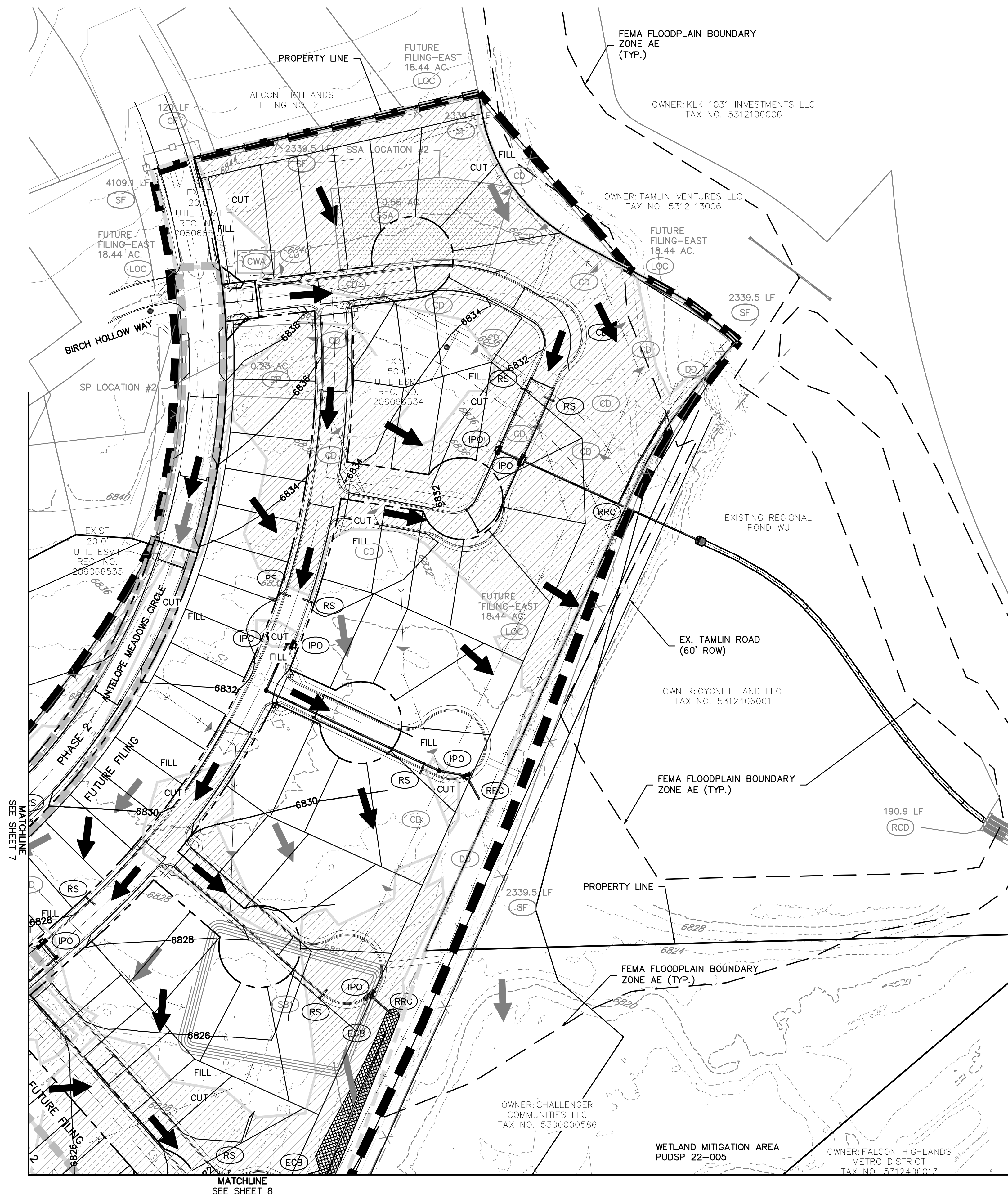
PROFESSIONAL ENGINEER
S 36834
01/26/24

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P.M. RDL

JOB: 21005234
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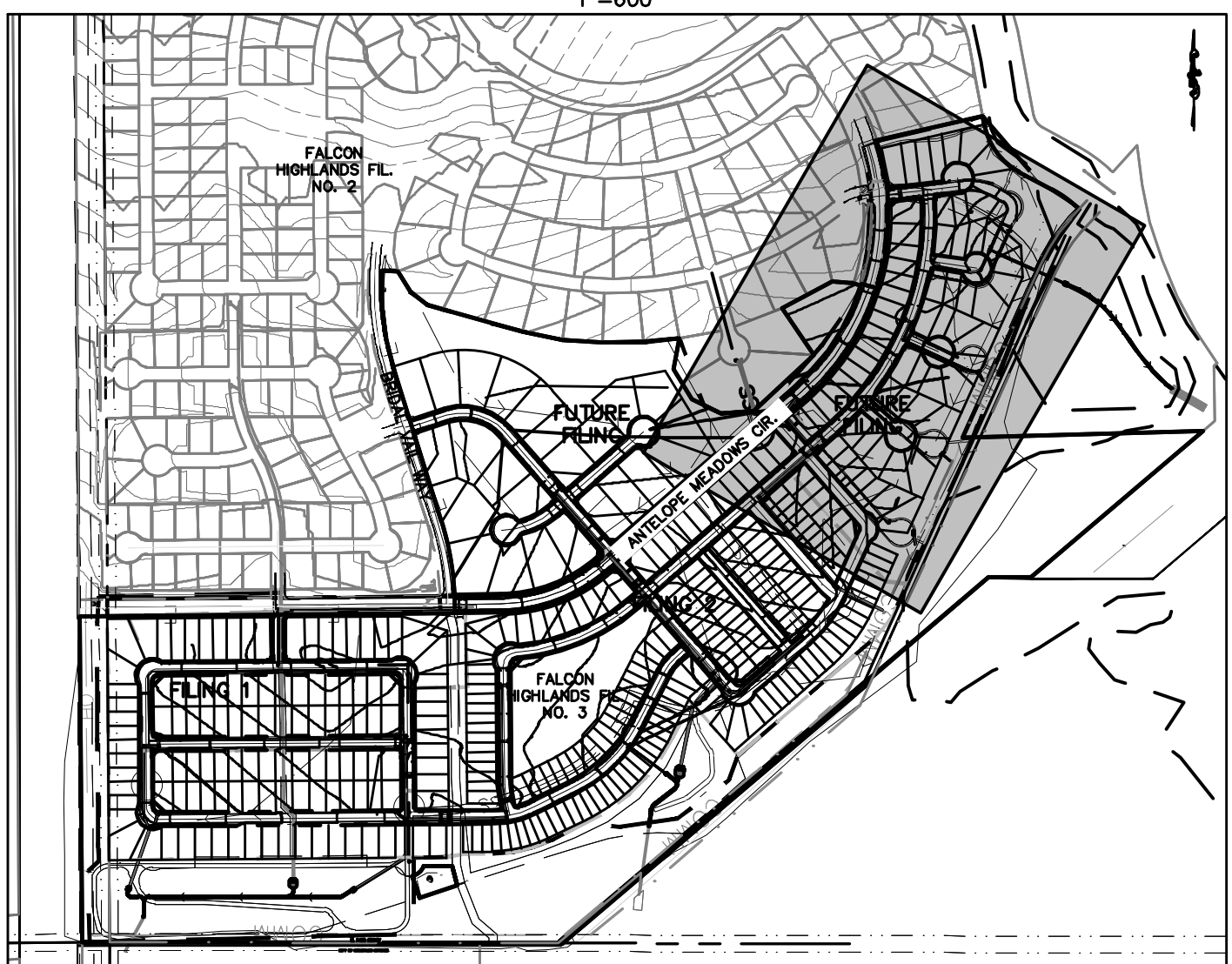
LEGEND
PROPERTY BOUNDARY LINE

- PROPOSED LOT LINE
- CUT/FILL BOUNDARY
- EXISTING CONTOURS
- PROPOSED CONTOURS
- INITIAL PHASE DRAINAGE FLOW ARROWS
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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
(SF)		SILT FENCE
(RRC)		RRB FOR CULVERT PROTECTION
(IPS)		SUMP INLET PROTECTION



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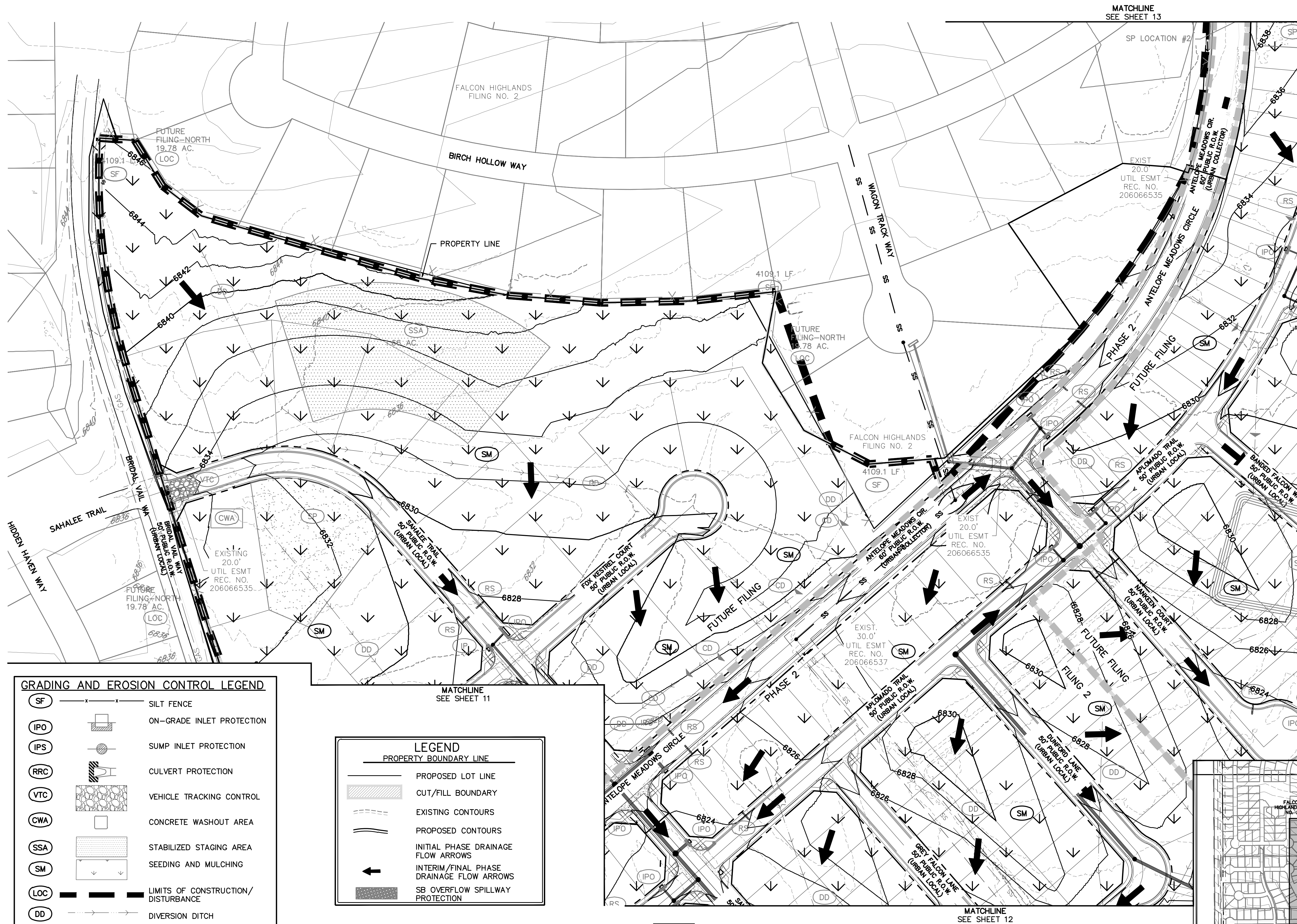
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DR.	JD	CH.
P.M.	RDL	
JOB	21005234	
SHEET NO.	9	

CAD FILE: 21005234-GEOP-INTERIM.DWG

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GRADING AND EROSION CONTROL LEGEND

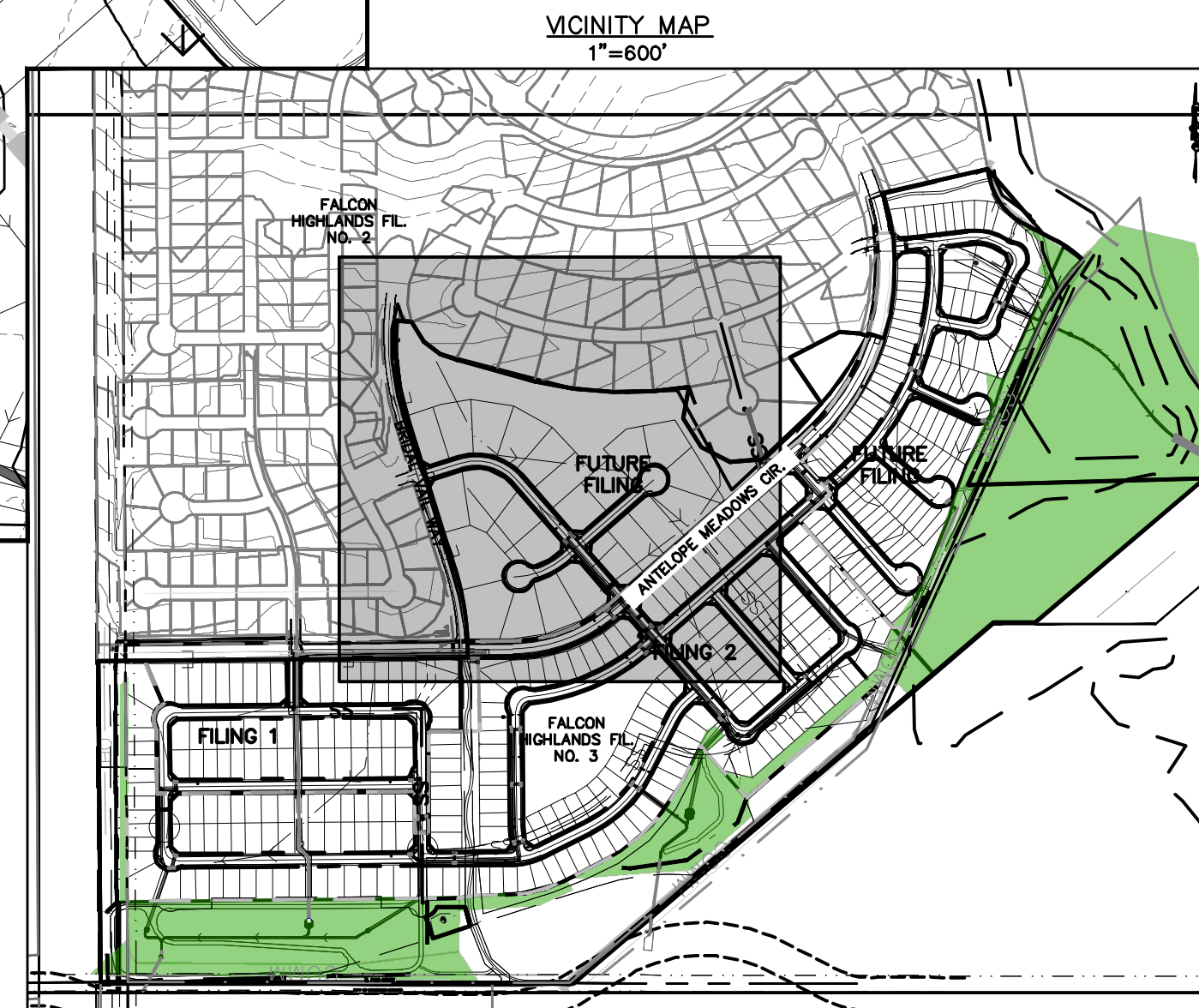
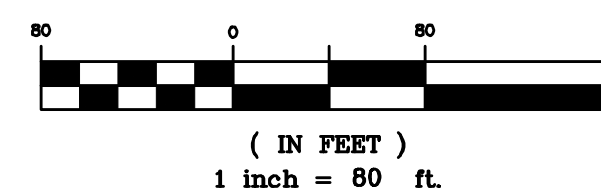
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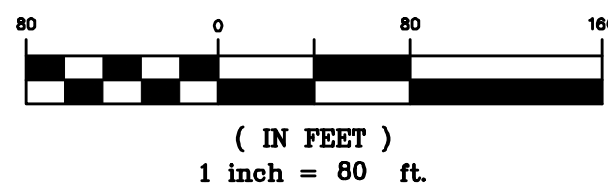
DR. JD CH.
P.M. RDL

JOB 21005234

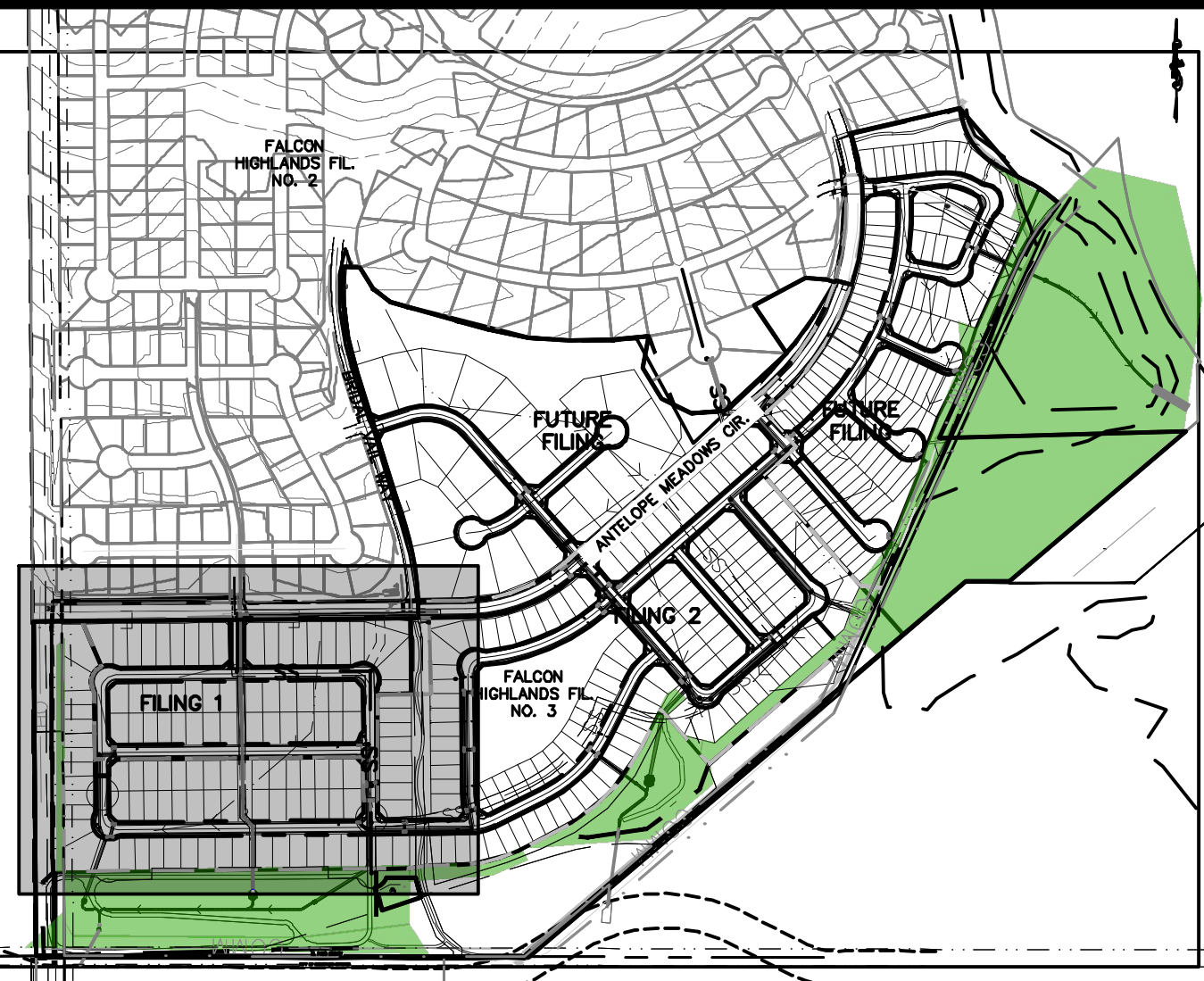
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MATCHLINE
SEE SHEET 10



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	CUT/FILL BOUNDARY
	EXISTING CONTOURS
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(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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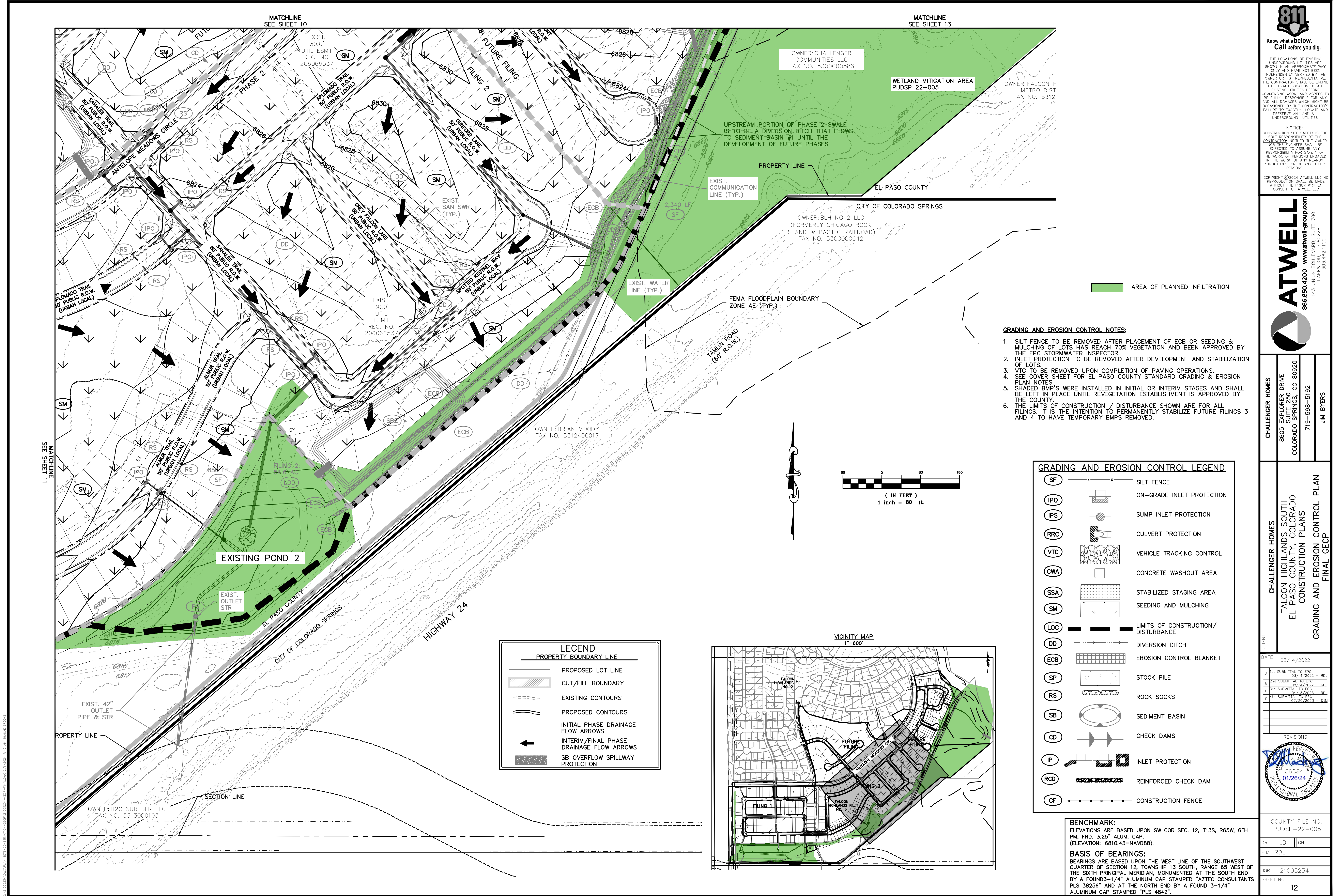
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JOB: 21005234 SHEET NO. 11

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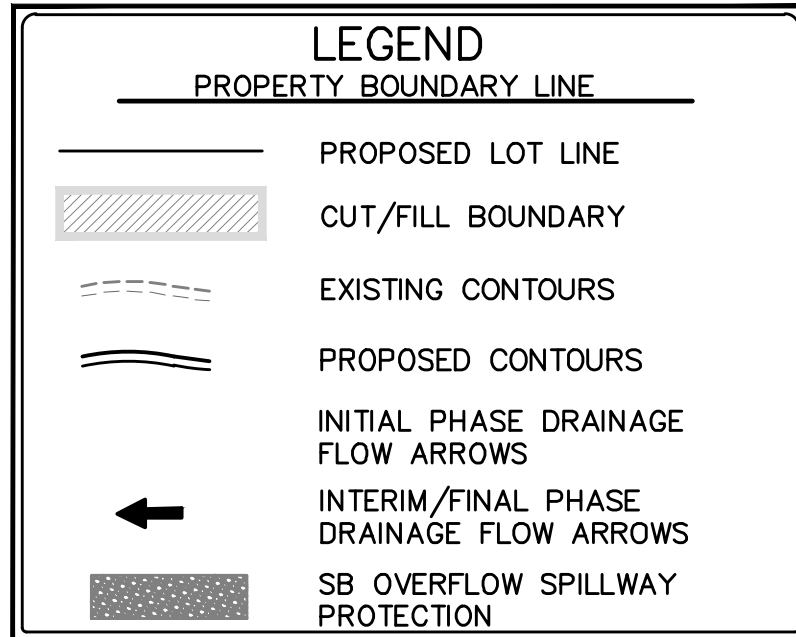
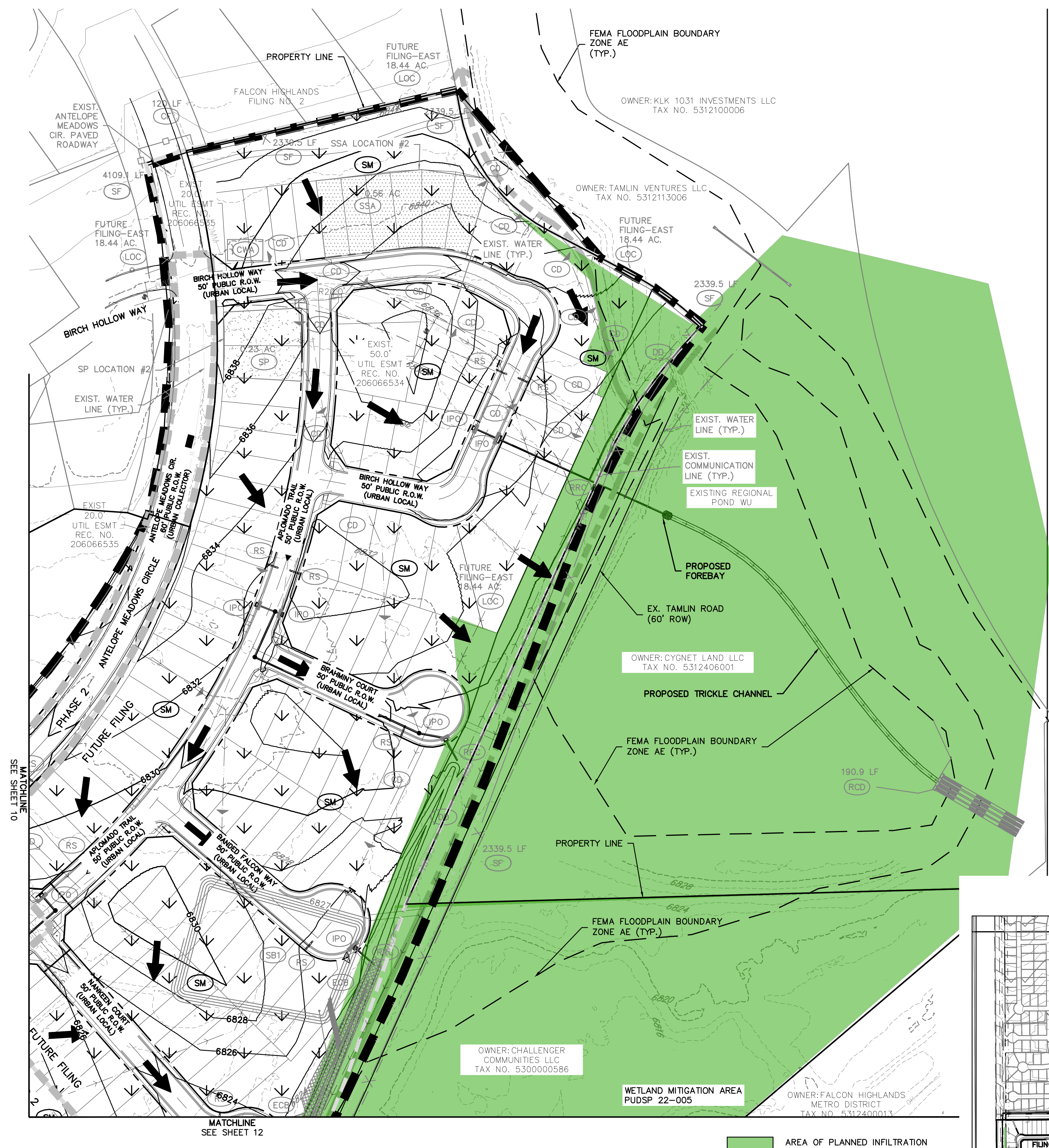
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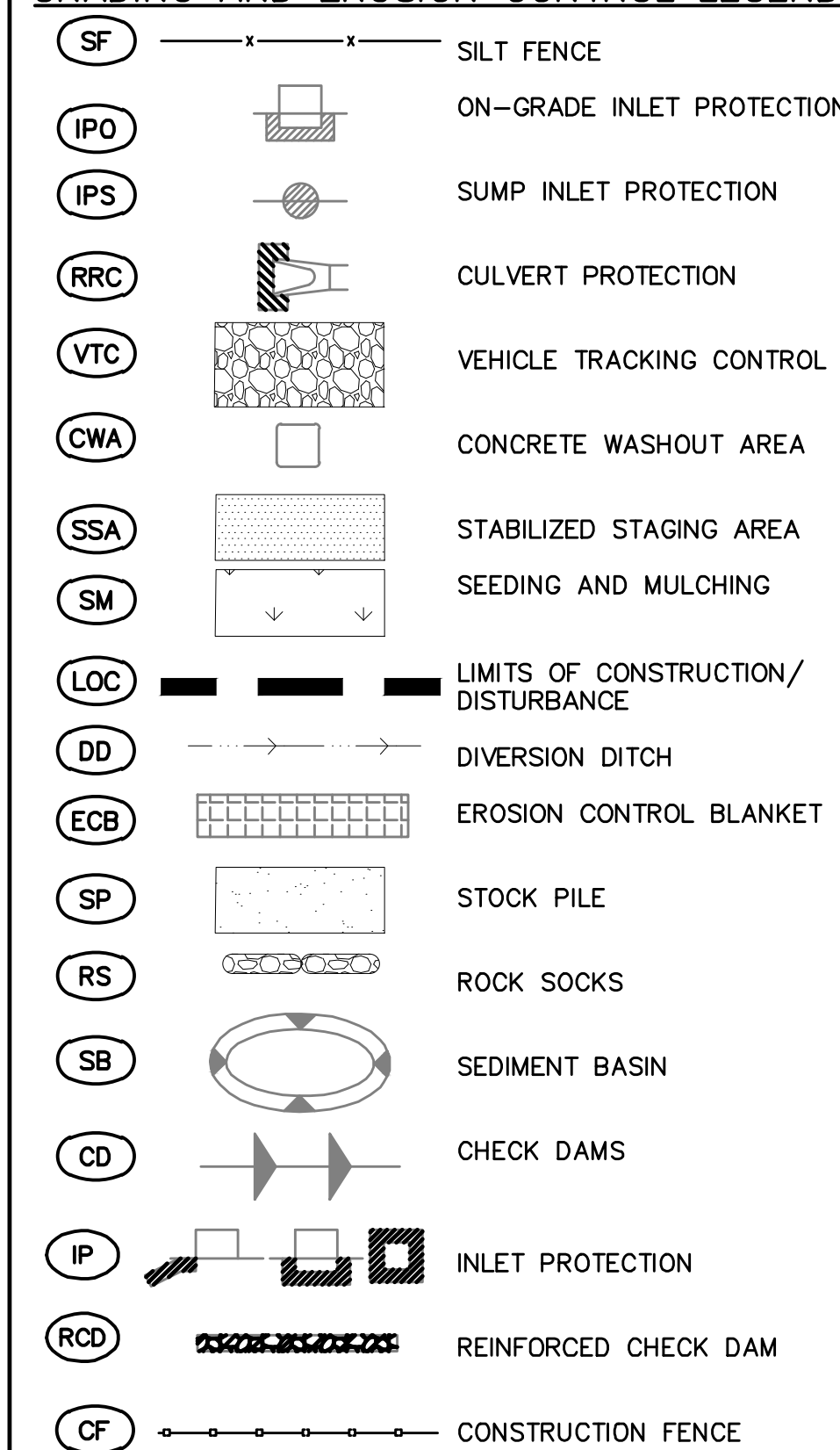
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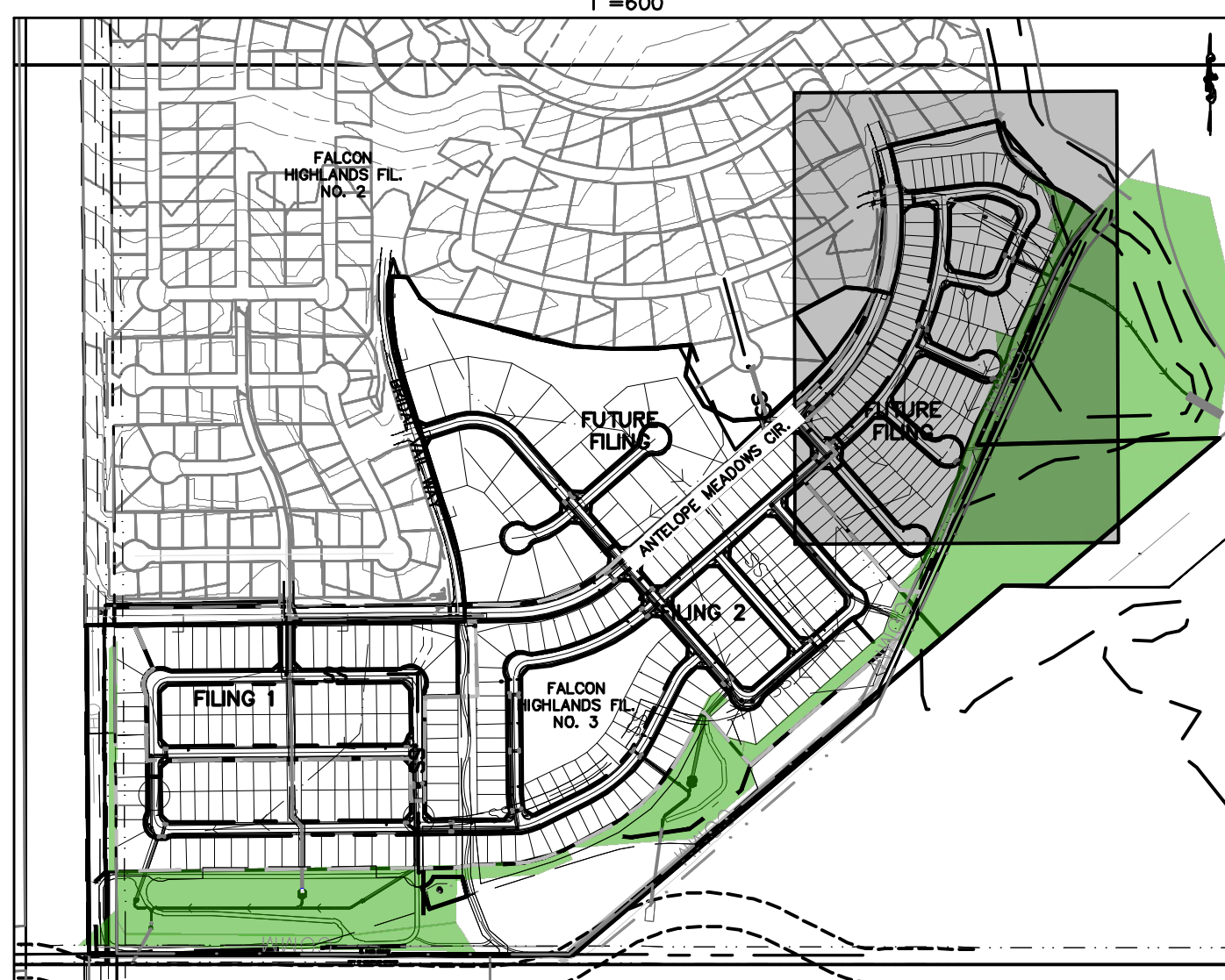
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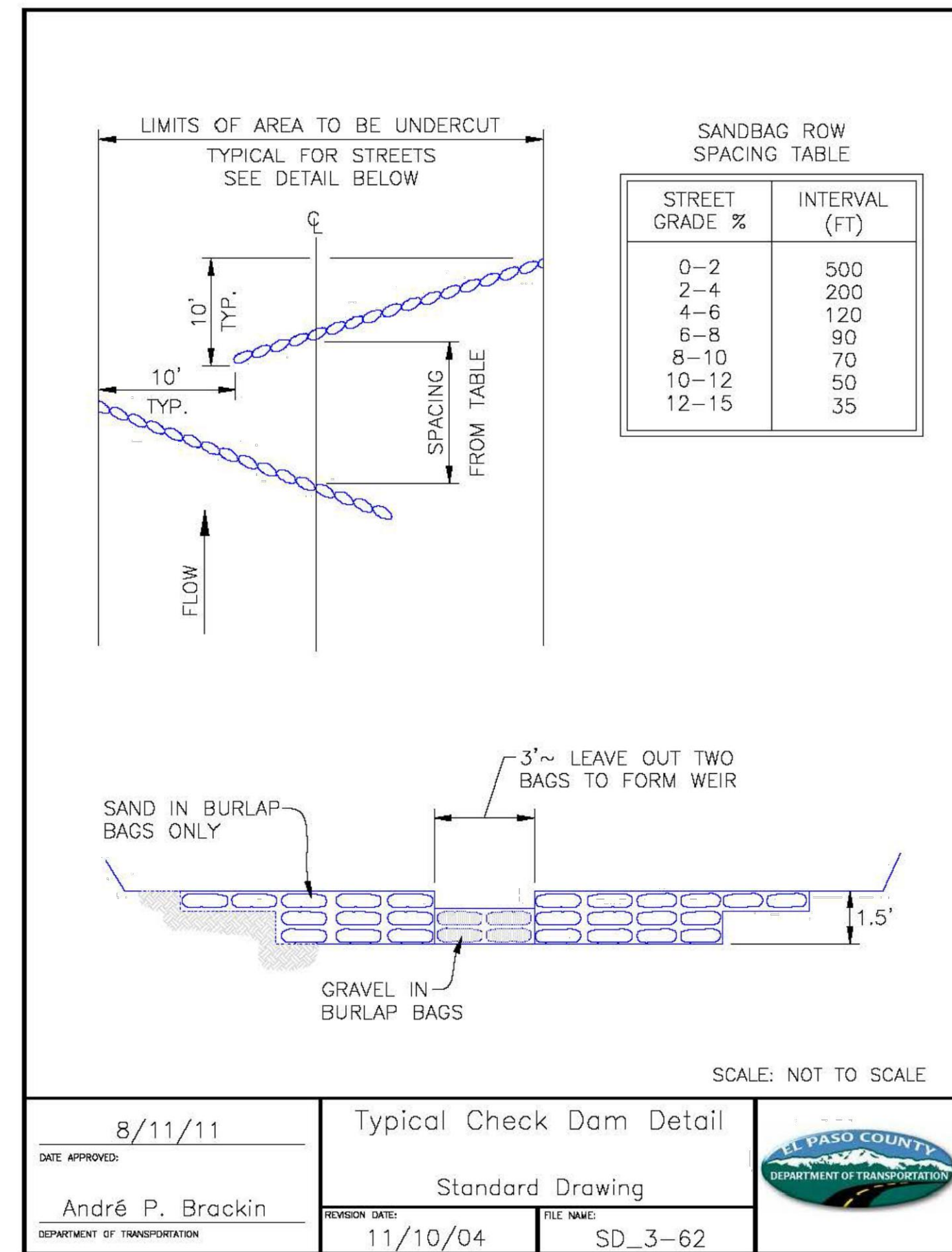


VICINITY MAP
1"=600'



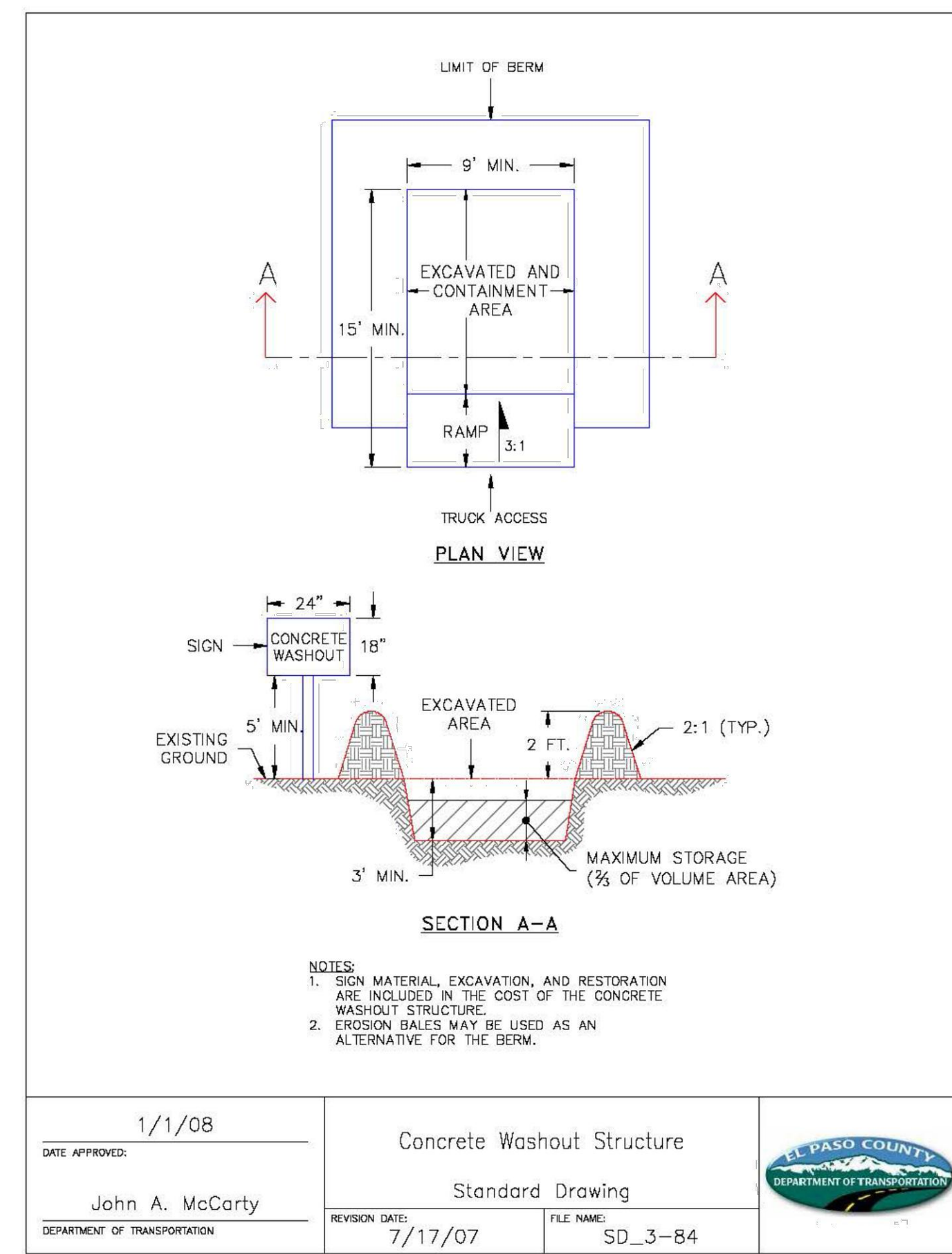
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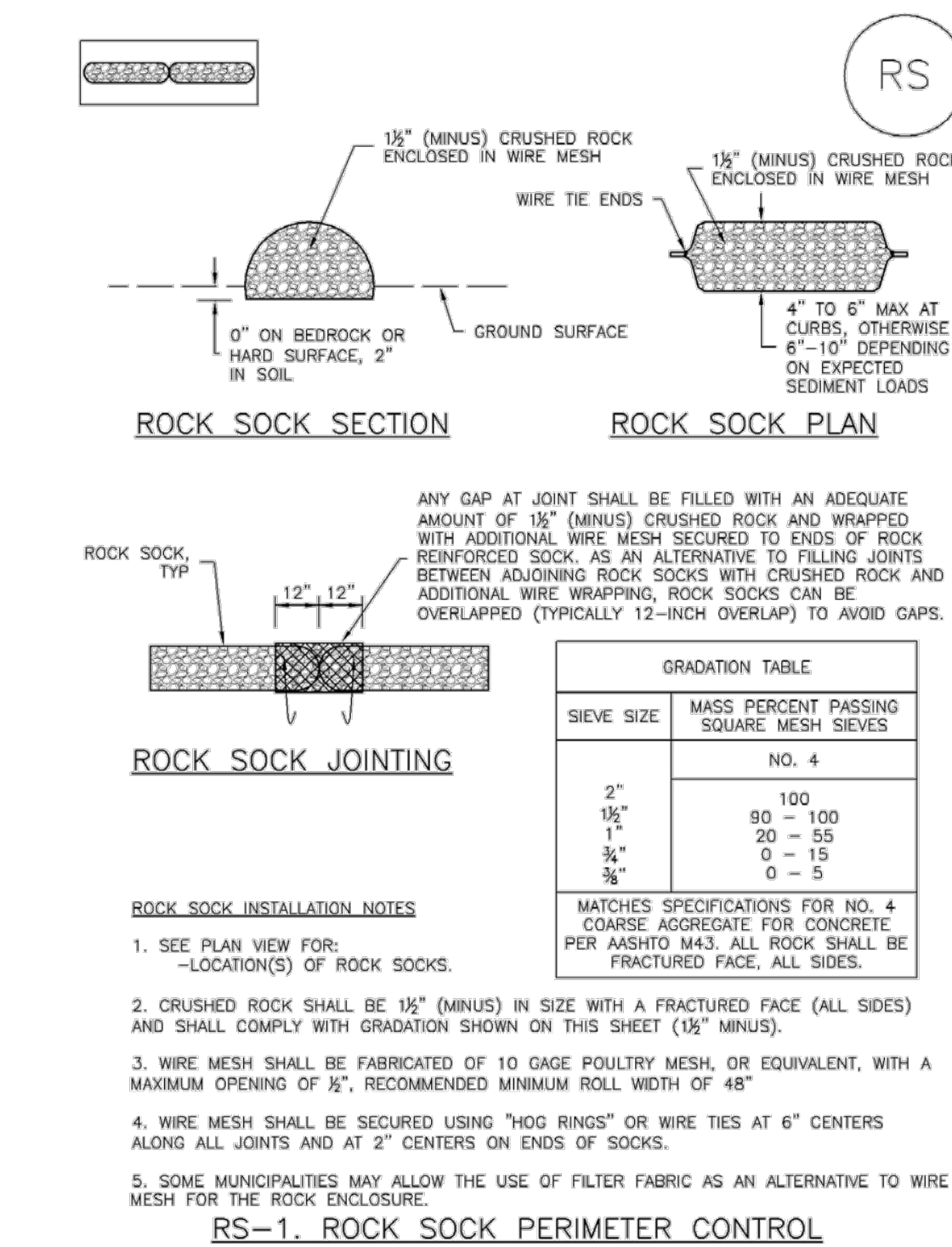


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SC-5

Rock Sock (RS)



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

EC-6

Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF ECB -TYPE OF ECB (STRAW, STRAW-COCOONUT, COCONUT, OR EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS				
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/NATURAL
STRAW-COCOONUT	30% MIN	70% MAX	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

*STRAW ECBs MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNELS.
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

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Rock Sock (RS)

SC-5

ROCK SOCK 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. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE ROCK SOCK.
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

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

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

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

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Rolled Erosion Control Products (RECP)

EC-6

EROSION CONTROL BLANKET MAINTENANCE NOTES

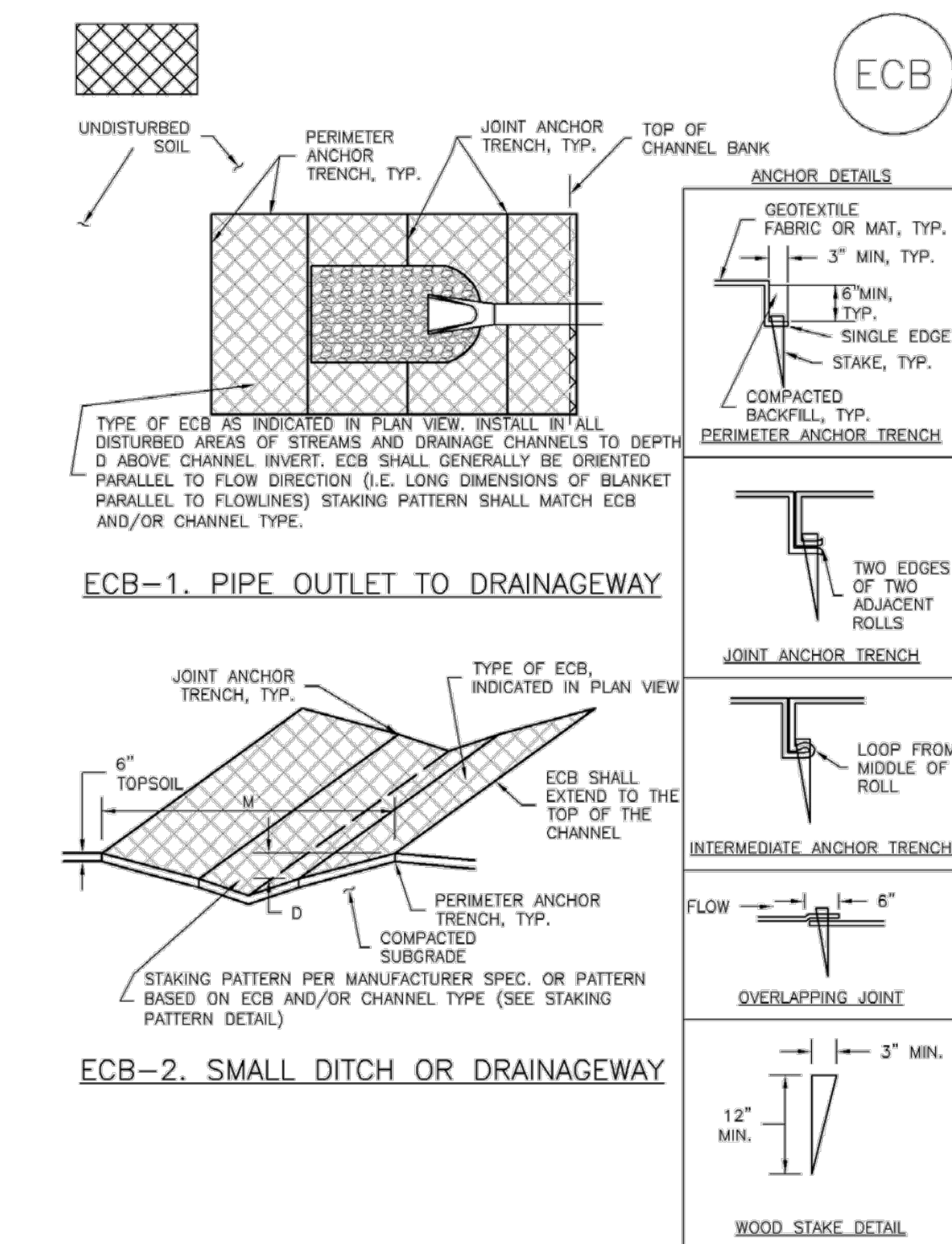
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 2. FREQUENT OBSERVATIONS 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. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
 5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.
- 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 AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

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EC-6

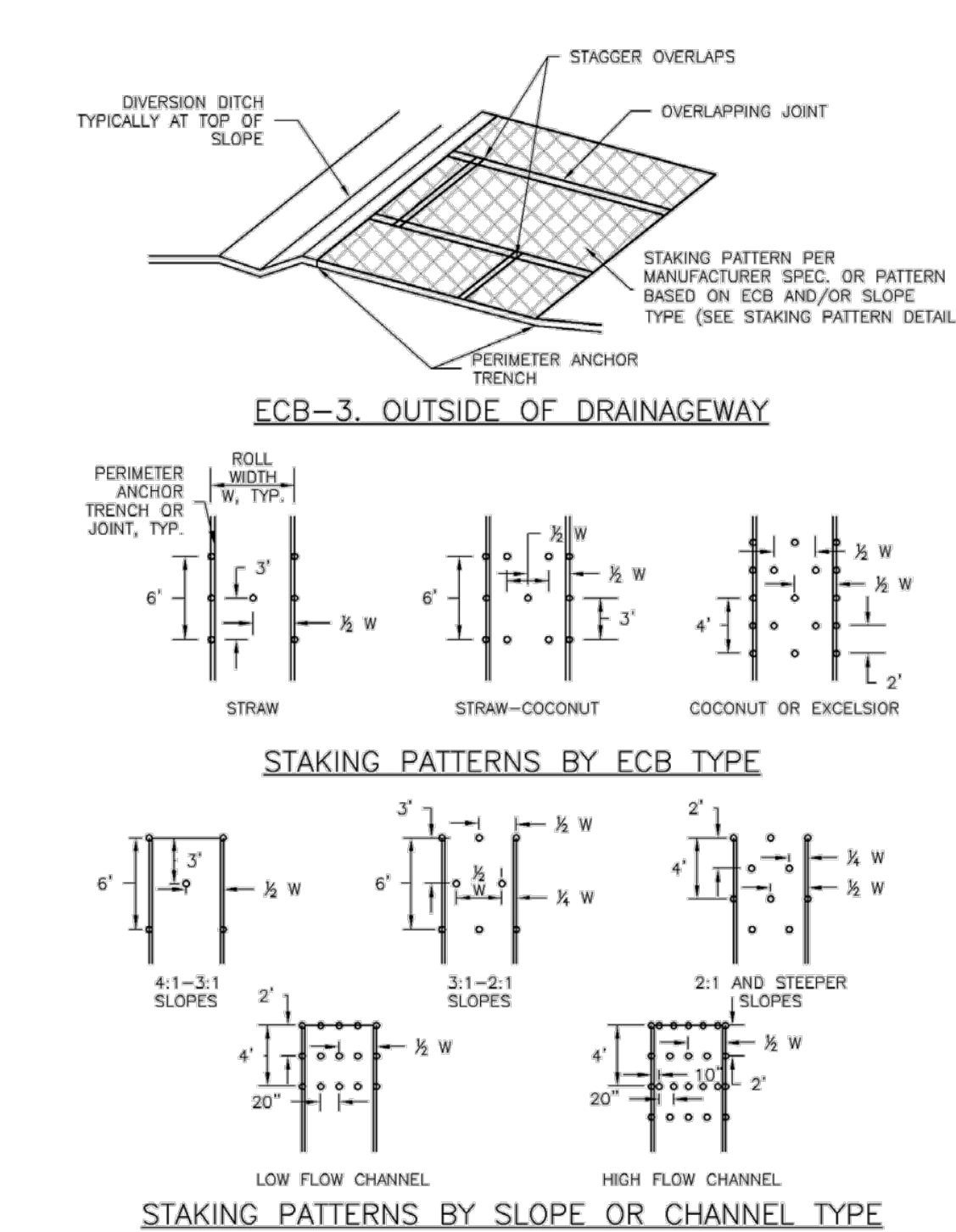
Rolled Erosion Control Products (RECP)



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

Rolled Erosion Control Products (RECP)

EC-6



November 2010 Urban Drainage and Flood Control District RECP-7
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RECP-8 Urban Drainage and Flood Control District November 2010
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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 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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EL PASO COUNTY, COLORADO
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
DETAIL GFCP

DATE 03/14/2022

A 1st SUBMITTAL TO EPC 03/14/2022 - RDL
B 2nd SUBMITTAL TO EPC 08/31/2022 - RDL
C 3rd SUBMITTAL TO EPC 04/18/2023 - RDL
D 4th SUBMITTAL TO EPC 07/20/2023 - RDL

REVISIONS



COUNTY FILE NO.:
PUDSP-22-005

DR. JD CH.

P.M. RDL

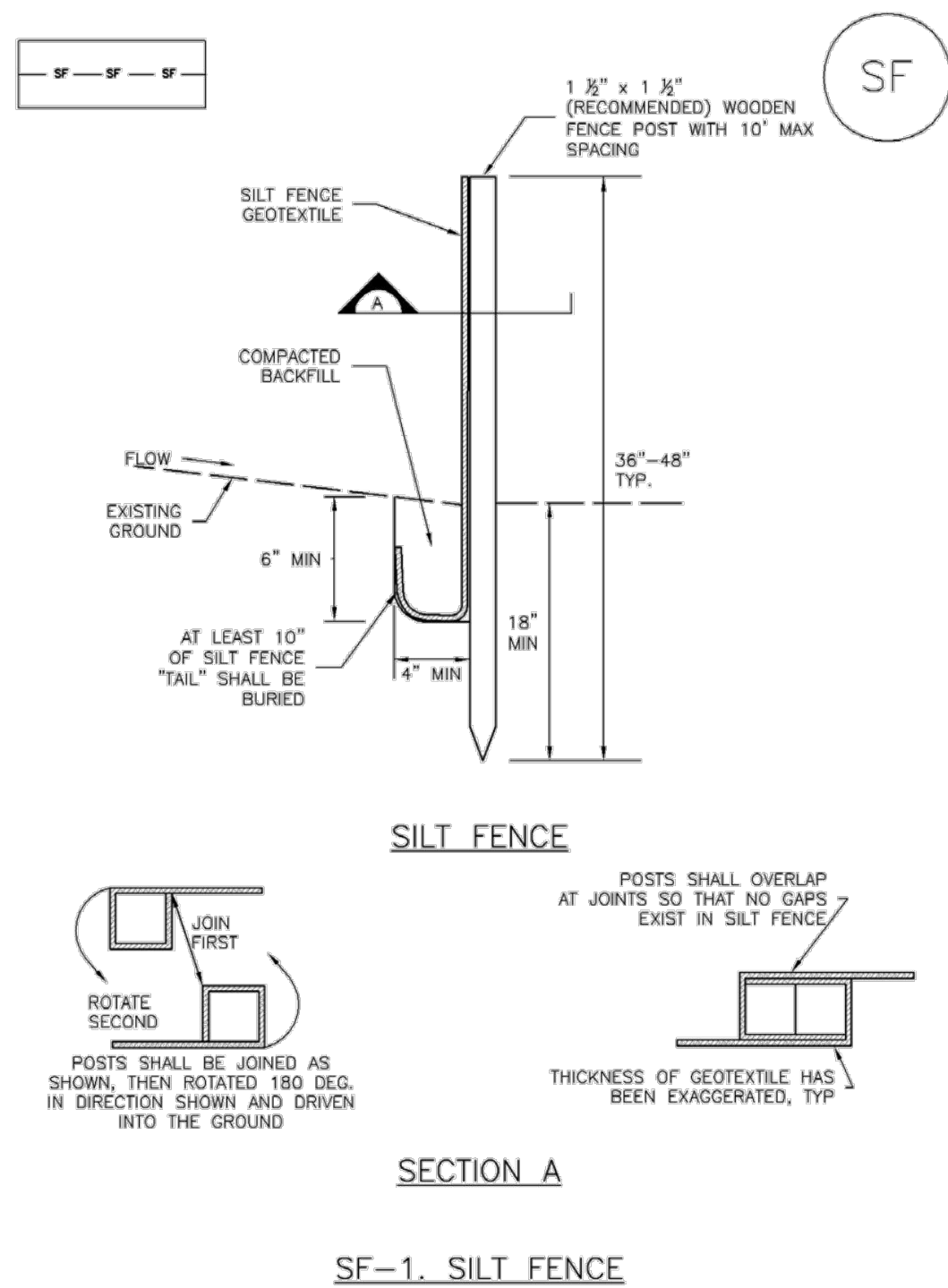
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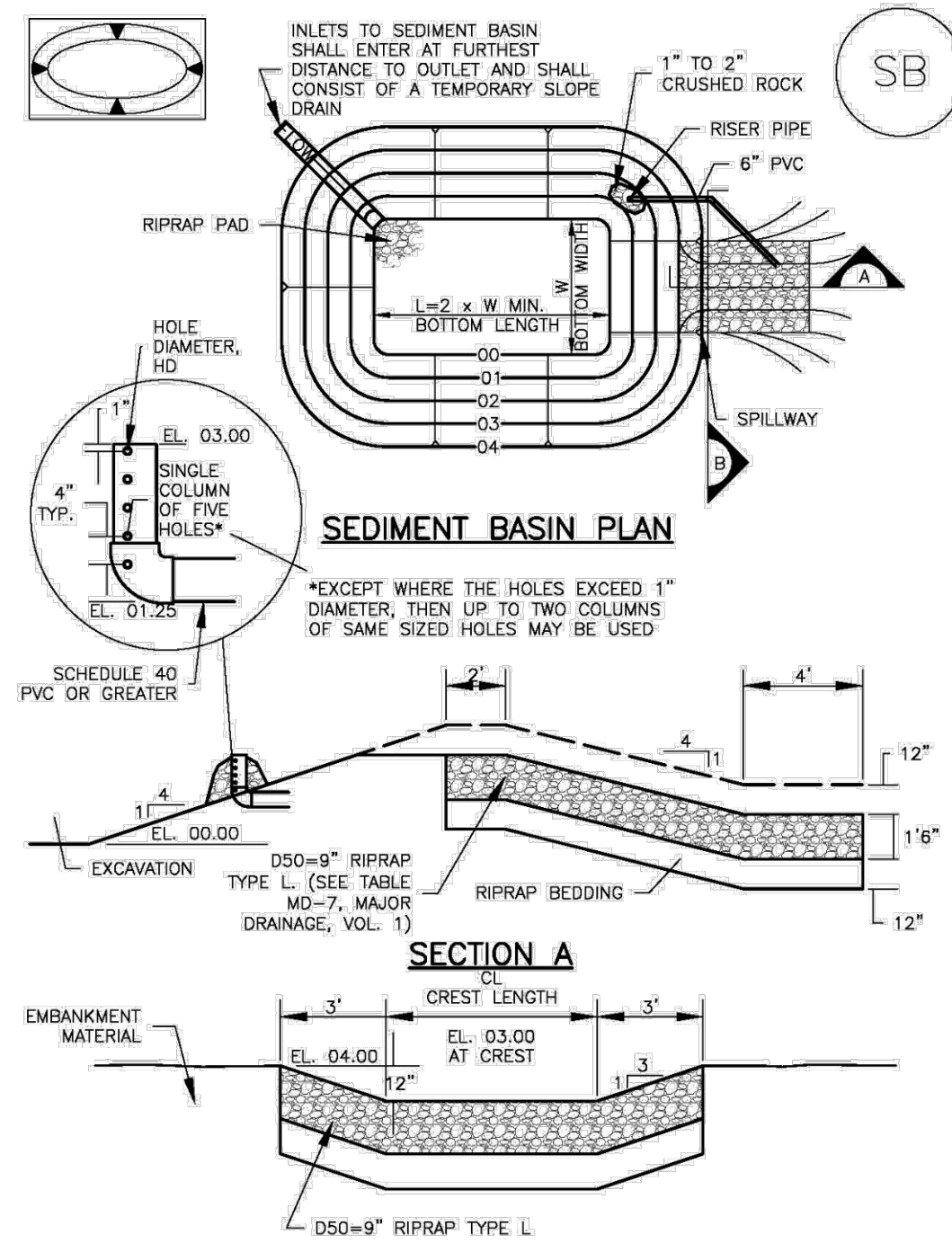
Silt Fence (SF)

SC-1

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Sediment Basin (SB)

SC-7

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SC-1

Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE 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 SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
 5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 6. 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.
 7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAIL 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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SC-7

Sediment Basin (SB)

TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN			
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	9/32
2	21	3	13/16
3	29	5	1 1/8
4	33 1/2	6	1 1/4
5	38 1/2	8	1 5/16
6	43	9	1 3/8
7	47 1/2	11	1 7/16
8	51	12	1 1/2
9	55	13	1 5/8
10	58 1/2	15	1 3/4
11	61	16	1 7/8
12	64	18	2
13	67 1/2	19	2 1/16
14	70 1/2	21	2 1/8
15	73 1/2	22	2 1/4

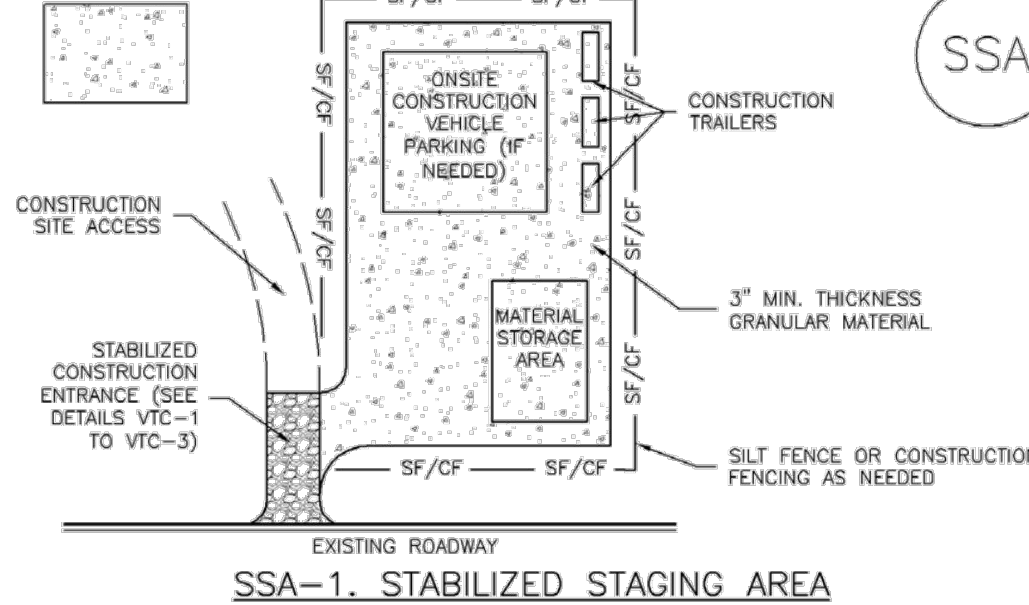
SEDIMENT BASIN INSTALLATION NOTES

1. 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 COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS A STORMWATER CONTROL.
4. 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.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE SCH 40 OR GREATER SHALL BE USED.
7. 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, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

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Stabilized Staging Area (SSA)

SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

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

STABILIZED STAGING AREA 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. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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Sediment Basin (SB)

SC-7

SEDIMENT BASIN 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 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).
5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
6. 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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Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
 6. 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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NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE RESPONSIBLE TO ASSURE 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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CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
DETAIL G/CP

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REVISIONS

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P.M. RDLJOB 21005234
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