

GENERAL CONSTRUCTION NOTES:

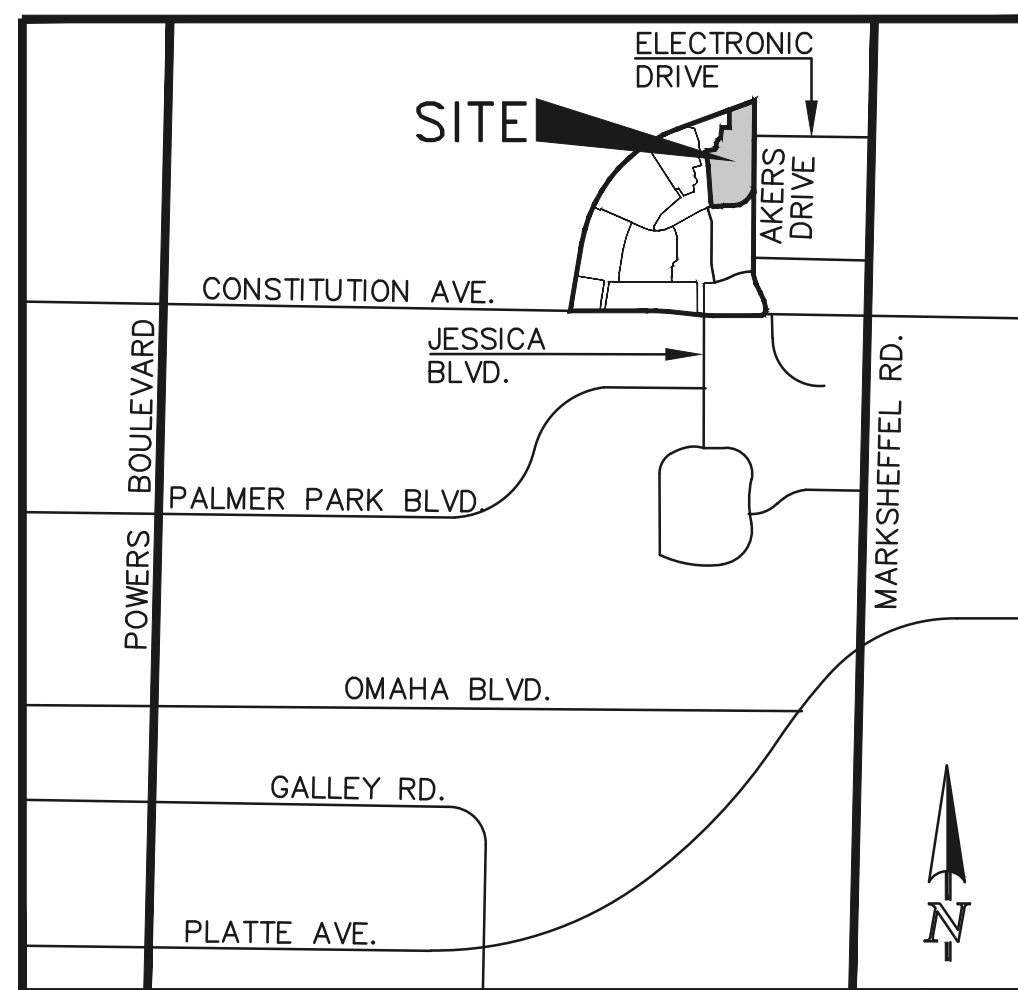
- 1. ALL CONSTRUCTION WITHIN EL PASO COUNTY PUBLIC RIGHT-WAYS SHALL BE IN ACCORDANCE WITH MOST CURRENT STANDARDS AND SPECIFICATIONS OF EL PASO COUNTY.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK...

HANNAH RIDGE AT FEATHERGRASS FILING NO. 5

COUNTY OF EL PASO, STATE OF COLORADO SECTION 32, TOWNSHIP 13 SOUTH, RANGE 65 WEST

CONSTRUCTION PLANS

OCTOBER 2018



VICINITY MAP NOT TO SCALE

SHEET INDEX

Table listing sheet titles and their corresponding sheet numbers, including Title Sheet, Overlot Grading Plan, Street Improvement Plan, etc.

BENCHMARKS:

- A #5 REBAR LOCATED APPROXIMATELY 170 FEET NORTHEAST OF THE NORTHEASTERLY CORNER OF TRACTS JJ AS PLATTED IN HANNAH RIDGE AT FEATHERGRASS FILING NO. 1...

BASIS OF BEARINGS:

BEARING REFERRED TO HEREIN ARE BASED ON THE SOUTH LINE OF TRACT FF, HANNAH RIDGE AT FEATHERGRASS FILING NO. 1...

SIGNING AND STRIPING NOTES:

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT...

EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2...
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES...

AGENCIES:

Table listing agencies and their contact information: Developer (Elite Properties of America, Inc.), Civil Engineer (Classic Consulting Engineers & Surveyors), County Engineering (Development Services Department), Water & Sanitation District (Cherokee Metro District), Fire District (Falcon Fire Protection District), Gas Company (City of Colorado Springs), Electric Company (Mountain View Electric), Telephone Company (Century Link Communications).

APPROVALS:

ENGINEER'S STATEMENT:

DETAILED IMPROVEMENT PLANS AND SPECIFICATIONS ENGINEER'S STATEMENT: THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION...

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

I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

OWNER/DEVELOPER STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE DRAINAGE REPORT AND PLAN AND THIS SET OF CONSTRUCTION DOCUMENTS. THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

DOUGLAS M. STIMPLE DATE ELITE PROPERTIES OF AMERICA, INC.

EL PASO COUNTY:

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

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

ANDRE BRACKIN, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR Jennifer Irvine, P.E. DATE

CHEROKEE METROPOLITAN DISTRICT:

THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR SANITARY SEWER, WATER MAIN AND ASSOCIATED UTILITY SERVICE CONSTRUCTION.

FOR AND ON BEHALF OF THE CHEROKEE METRO. DISTRICT DATE

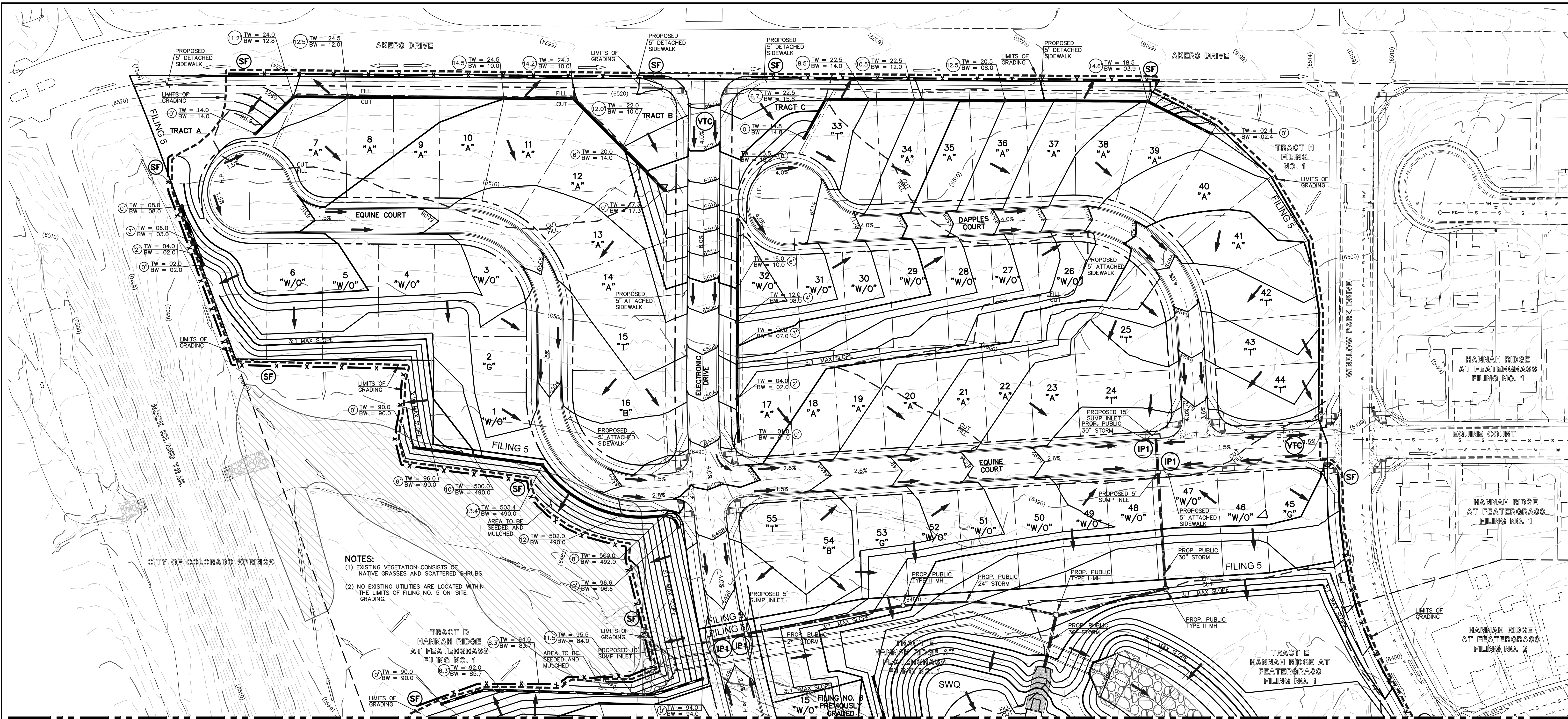
FALCON FIRE PROTECTION DISTRICT:

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE FALCON FIRE PROTECTION DISTRICT SPECIFICATIONS. THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FALCON FIRE PROTECTION DISTRICT.

FOR AND ON BEHALF OF FALCON FIRE PROTECTION DISTRICT DATE SF - 18 - 038

Project summary and approval block containing: 48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811; Utility Notification Center of Colorado; Review table with columns for NO., REVISION, and DATE; Review text: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC; Signature of Kyle R. Campbell, Colorado P.E. #29794; Classic Consulting Engineers & Surveyors logo and address; Hannah Ridge at Feathergrass Filing No. 5 Construction Drawings Title Sheet; Designer: KRC, Scale: (H) 1"=VARIES, Date: 10/12/18; Drawn by: KC, Sheet: 1 OF 11; Checked by: (V) 1"= NA, Job No.: 1116.05.

Vertical text on the left margin: N:\UTLINES\REVIEWS\CONSTRUCTION\101161605.dwg, 10/22/2018 3:24:04 PM, 1:1



NOTES:
(1) EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND SCATTERED SHRUBS.
(2) NO EXISTING UTILITIES ARE LOCATED WITHIN THE LIMITS OF FILING NO. 5 ON-SITE GRADING.

TRACT D HANNAH RIDGE AT FEATHERGRASS FILING NO. 1
TRACT E HANNAH RIDGE AT FEATHERGRASS FILING NO. 1

SEE SHEET 3

NOTES:

AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

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

NO PORTION OF THIS SITE IS LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBER 08041C0752F AND EFFECTIVE DATE, MARCH 17, 1997.

THE AVERAGE SOIL CONDITION REFLECTS PRING COURSE SANDY LOAM AS DETERMINED BY THE "SOIL SURVEY OF EL PASO COUNTY AREA" PREPARED BY THE U.S. SOIL CONSERVATION SERVICE.

EXISTING VEGETATION CONSISTS OF TALL NATIVE GRASSES AND WEEDS WITH SPORADIC CACTI AND YUCCAS THROUGH-OUT THE SITE.

EMERGENCY OVERFLOW SWALES FOR INLETS IN THE INTERIM UNTIL CURB AND ASPHALT IS INSTALLED WILL BE THE LOTS, FINAL WILL BE TO OVERTOP THE HIGH POINT IN ROADWAY TO THE NEXT AVAILABLE INLET OR TO PROPOSED POND.

STOCKPILE LOCATIONS FOR HOMEBUILDING TO BE ON EACH INDIVIDUAL LOT THAT IS BEING BUILT UPON.

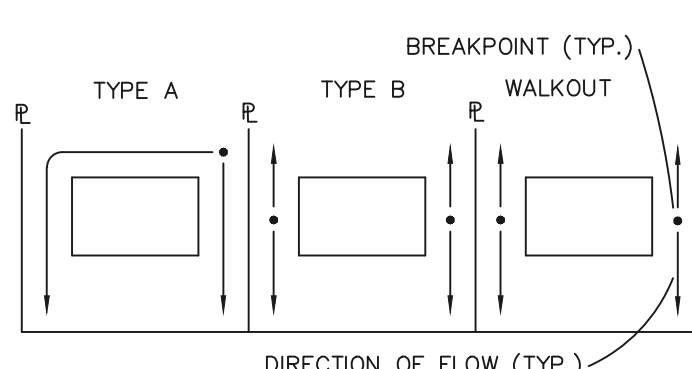
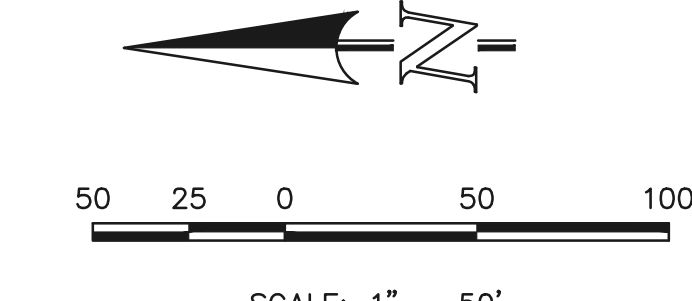
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ALL AREAS ARE TO BE RESEEDED OUTSIDE OF THE FILING NO. 5, 6 AND 7 AREA. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.

ALL RETAINING WALLS TO BE STACKED BLOCK WALLS.
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LOT DRAINAGE TYPES

NOTE:
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Provide typical roadway sections.

Use EPC Optional Type C C&G for Type C

LEGEND

- (6770) --- EXISTING CONTOUR
- PROPOSED CONTOUR
- - - - FILING LINE
- - - - BOUNDARY/R.O.W. LINE
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- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- PROPOSED RETAINING WALL
- (TSB) TEMPORARY SEDIMENT BASIN
- (SF) SILT FENCE
- (IP) INLET PROTECTION
- (VTC) VEHICLE TRACKING CONTROL

NOTE:
SEE SHEET 5 FOR LOT TEMPLATES
SEE SHEET 5 FOR EROSION CONTROL DETAILS

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p>	<table border="1"><thead><tr><th>NO.</th><th>REVISION</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	REVISION	DATE										<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE</p>	<p>HANNAH RIDGE AT FEATHERGRASS FILING NO. 5, 6 & 7 OVERLOT GRADING AND EROSION CONTROL PLAN</p> <p>CLASSIC CONSULTING ENGINEERS & SURVEYORS</p> <table border="1"><tr><td>DESIGNED BY</td><td>KRC</td><td>SCALE</td><td>DATE</td></tr><tr><td>DRAWN BY</td><td>KC</td><td>(H) 1" = 50'</td><td>10/12/18</td></tr><tr><td>CHECKED BY</td><td>(V) 1" = NA</td><td>SHEET 2 OF 11</td><td>JOB NO. 1116.05</td></tr></table> <p>719)785-0790 719)785-0799(Fax)</p>	DESIGNED BY	KRC	SCALE	DATE	DRAWN BY	KC	(H) 1" = 50'	10/12/18	CHECKED BY	(V) 1" = NA	SHEET 2 OF 11	JOB NO. 1116.05	<p>CLASSIC CONSULTING ENGINEERS & SURVEYORS</p>
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 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
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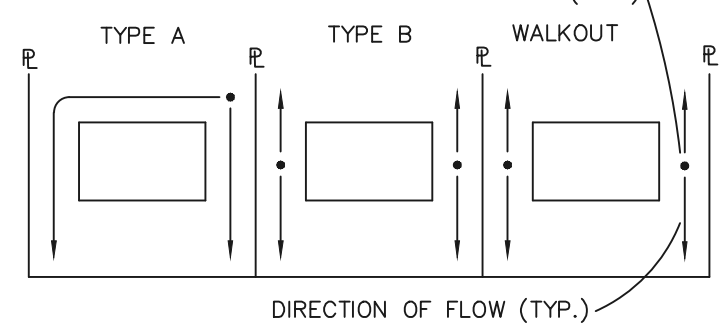
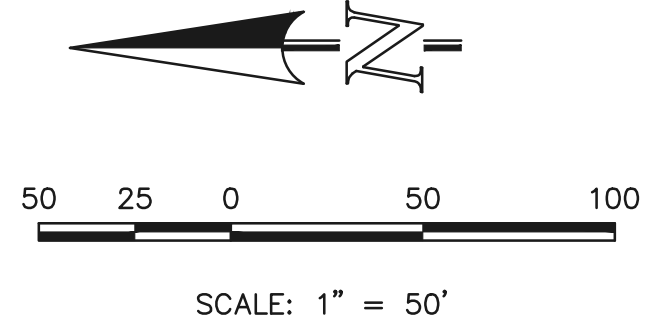
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There is generally an insufficient amount of sediment control shown on this plan. For example:
 There is only one TSB where they are recommended in the criteria to be placed for roughly one acre areas.
 There is no concrete wash out shown.
 There is no provisions for, or ditch checks provided to stop erosion where the curb and gutter will be constructed.
 There are several areas (back yards, etc) where silt fence should be shown.

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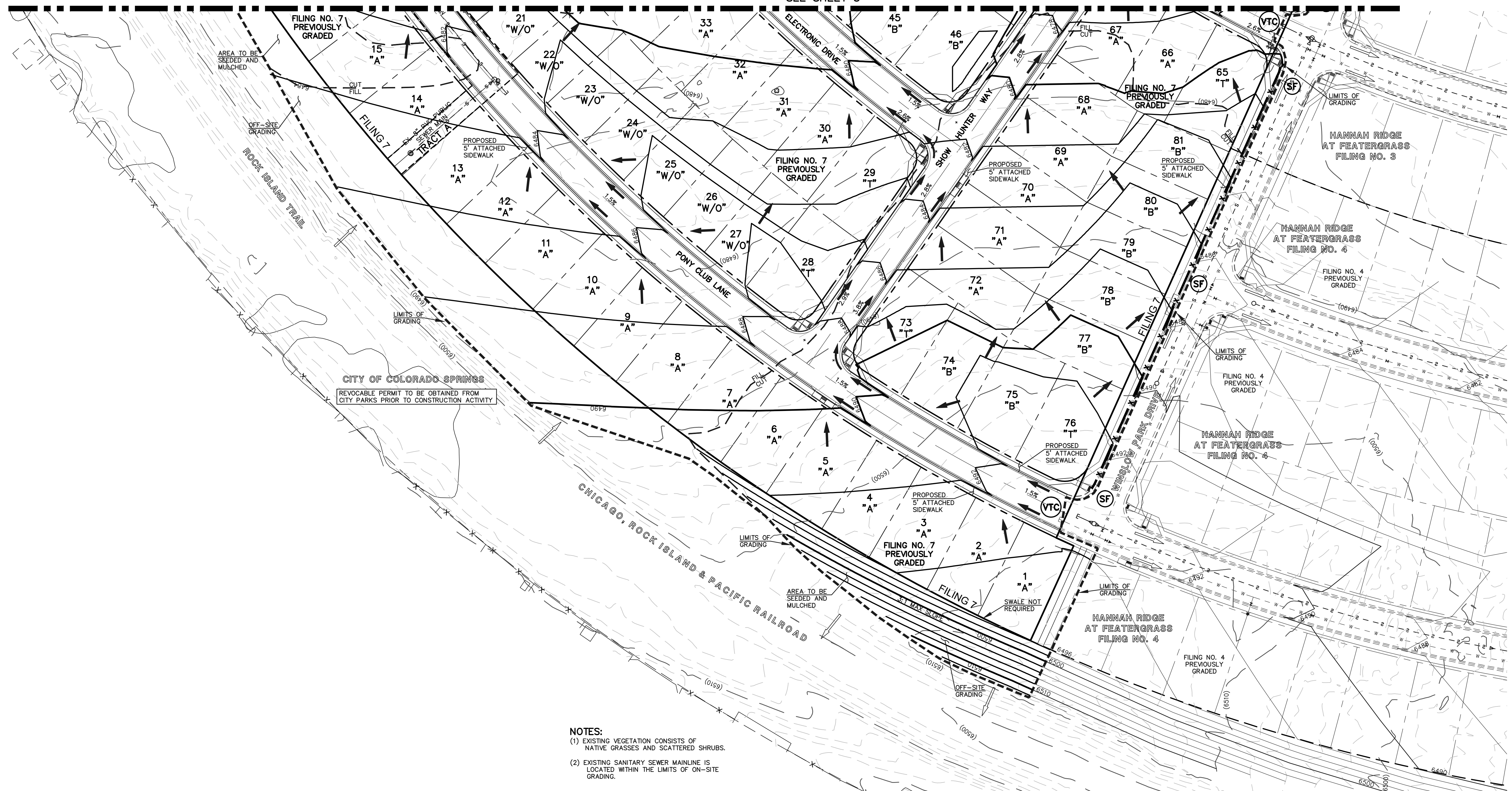
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PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC	
KYLE R. CAMPBELL, COLORADO P.E. #29794	DATE

CLASSIC
CONSULTING ENGINEERS & SURVEYORS

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

HANNAH RIDGE AT FEATHERGRASS FILING NO. 5, 6 & 7 OVERLOT GRADING AND EROSION CONTROL PLAN			
DESIGNED BY	KRC	SCALE	DATE 10/12/18
DRAWN BY	KC	(H) 1" = 50'	SHEET 3 OF 11
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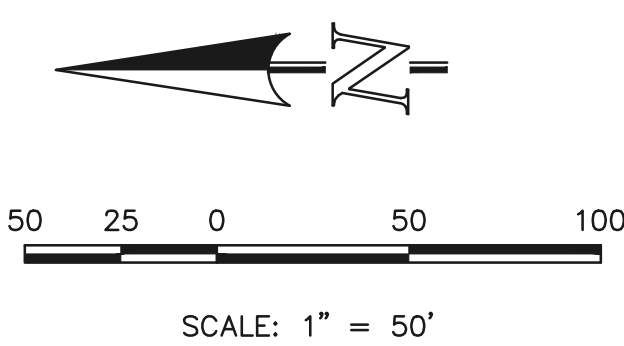
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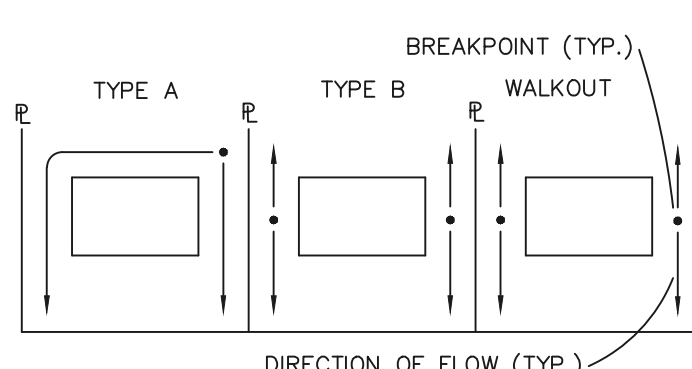
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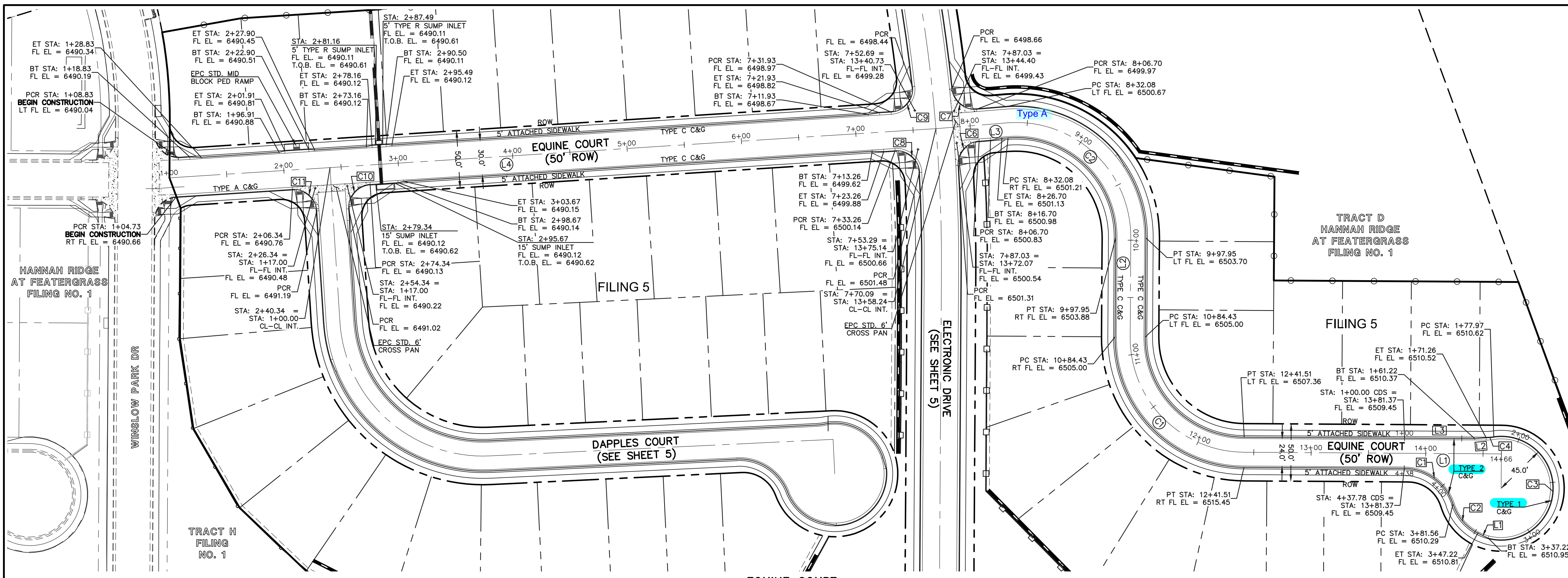
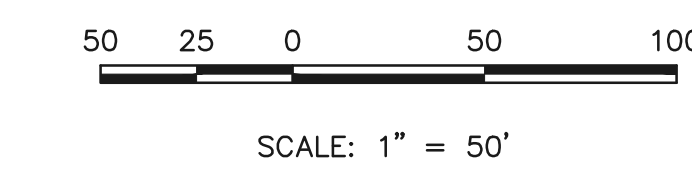
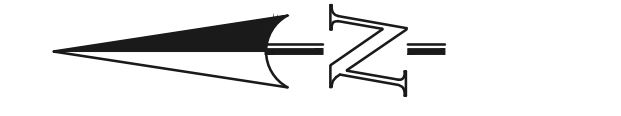
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CLASSIC CONSULTING ENGINEERS & SURVEYORS

STREET ABBREVIATION INDEX:

EQC EQUINE COURT
 ETD ELECTRONIC DRIVE
 DPC DAPPLES COURT
 WPD WINSLOW PARK DRIVE



CENTERLINE LINE TABLE

LENGTH	BEARING
L1 224.47	S0° 21' 32.94"W
L2 86.48	N89° 38' 27.06"W
L3 61.98	S4° 40' 44.62"E
L4 670.09	S3° 40' 25.25"E

CENTERLINE CURVE TABLE

LENGTH	RADIUS	DELTA
C1 157.08	100.00	90.00
C2 165.87	100.00	95.04

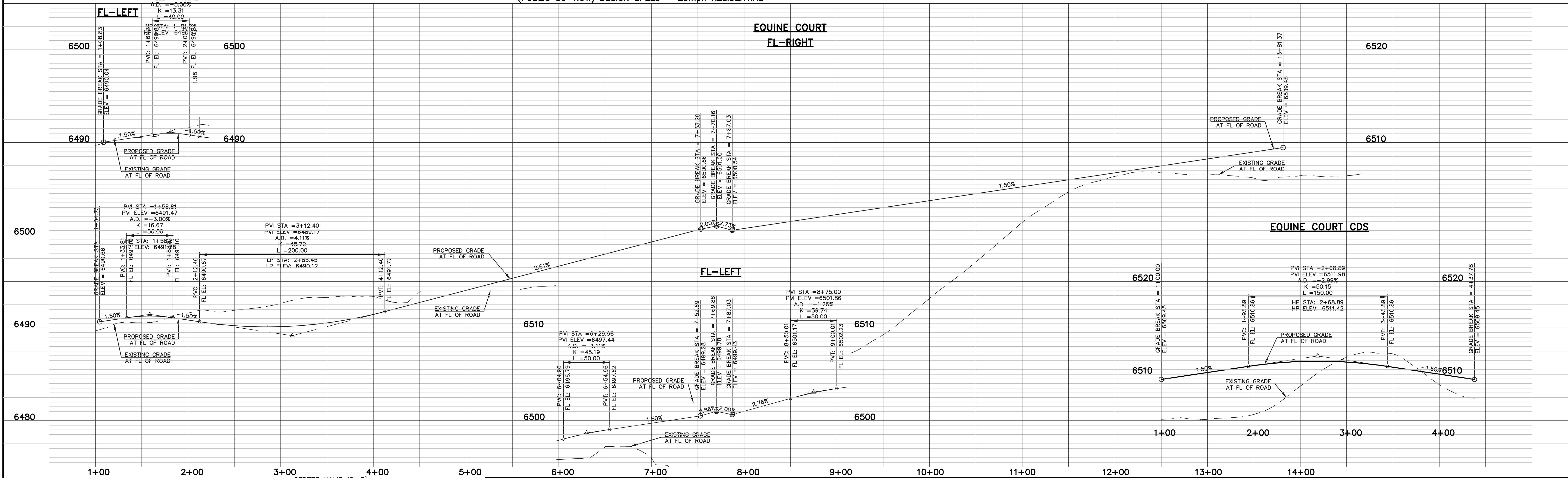
FL CURB CURVE TABLE

LENGTH	RADIUS	DELTA
C1 56.22	45.00	71.58
C2 34.34	44.17	44.55
C3 159.24	45.00	202.75
C4 6.71	45.00	8.55
C5 17.64	45.00	22.47
C6 30.95	20.00	88.67
C7 30.95	20.00	88.67
C8 31.59	20.00	90.49
C9 32.31	20.00	92.55
C10 31.42	20.00	90.00
C11 31.42	20.00	90.00

FL CURB LINE TABLE

LENGTH	BEARING
L1 10.00	N25° 42' 44.43"E
L2 10.03	S04° 23' 07.88"E
L3 61.22	S00° 21' 32.94"W

EQUINE COURT
 (PUBLIC 50' ROW) DESIGN SPEED - 25mph RESIDENTIAL



Provide Signing and Striping Plans for all three filings.



48 HOURS BEFORE YOU DIG,
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 UTILITY NOTIFICATION CENTER OF COLORADO
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NO.	REVISION	DATE

REVIEW:
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

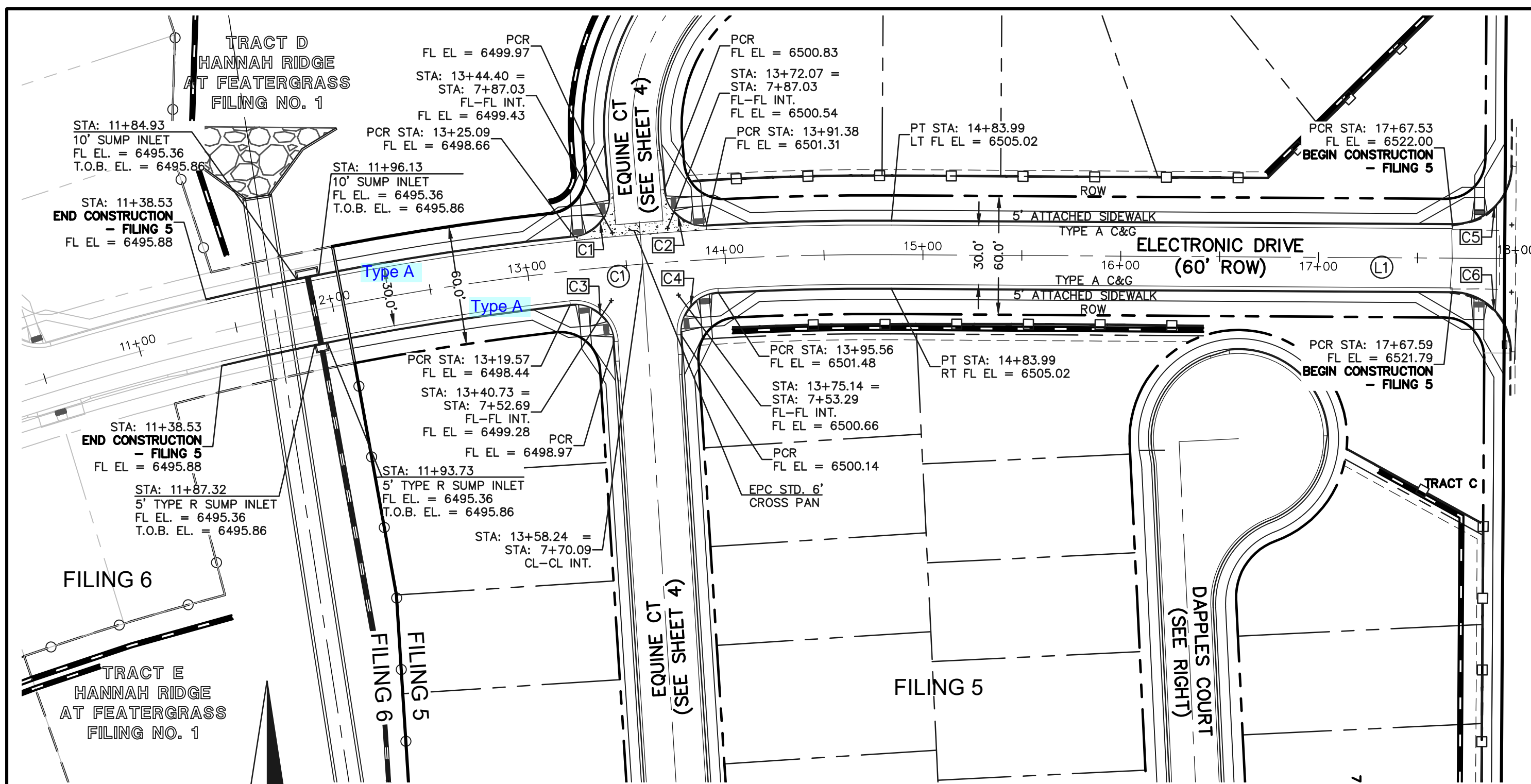
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



HANNAH RIDGE AT FEATHERGRASS
 FILING NO. 5
 STREET IMPROVEMENT PLANS
 EQUINE COURT

DESIGNED BY	KRC	SCALE	DATE	10/12/18
DRAWN BY	KC	(H) 1" = 50'	SHEET	6 OF 11
CHECKED BY	(V) 1" = 5'	JOB NO.	1116.05	

N:\111605\DRAWINGS\CONSTRUCTION\FILING 5\06-111605-5-01.dwg, 10/22/2018 3:21:28 PM, 1:1



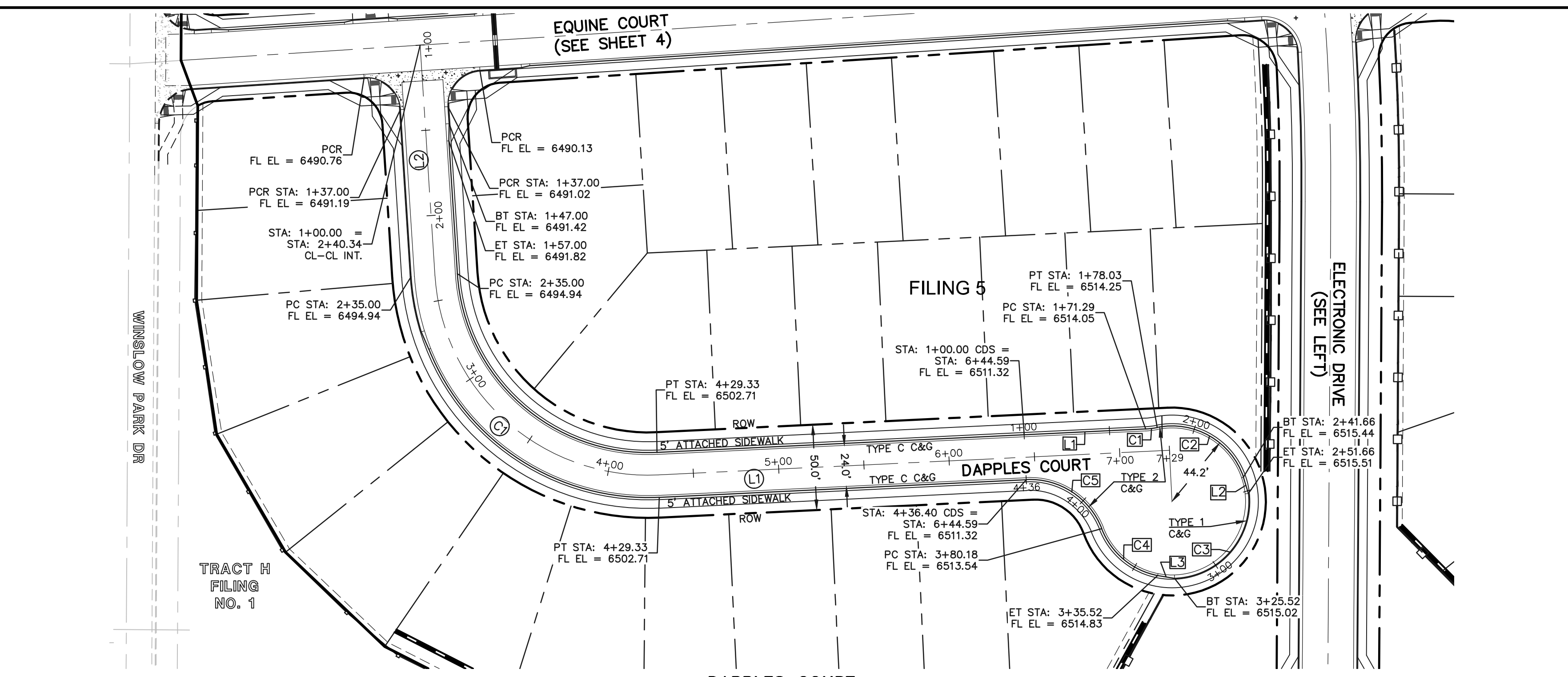
ELECTRONIC DRIVE
(PUBLIC 60' ROW) DESIGN SPEED - 30mph RESIDENTIAL

LENGTH	RADIUS	DELTA	
C1	278.47	1430.08	11.16

LENGTH	BEARING
L1	310.06 N89° 38' 27.06"W

LENGTH	RADIUS	DELTA	
C1	30.95	20.00	88.67
C2	30.95	20.00	88.67
C3	32.31	20.00	92.55
C4	31.59	20.00	90.49

SCALE: 1" = 50'



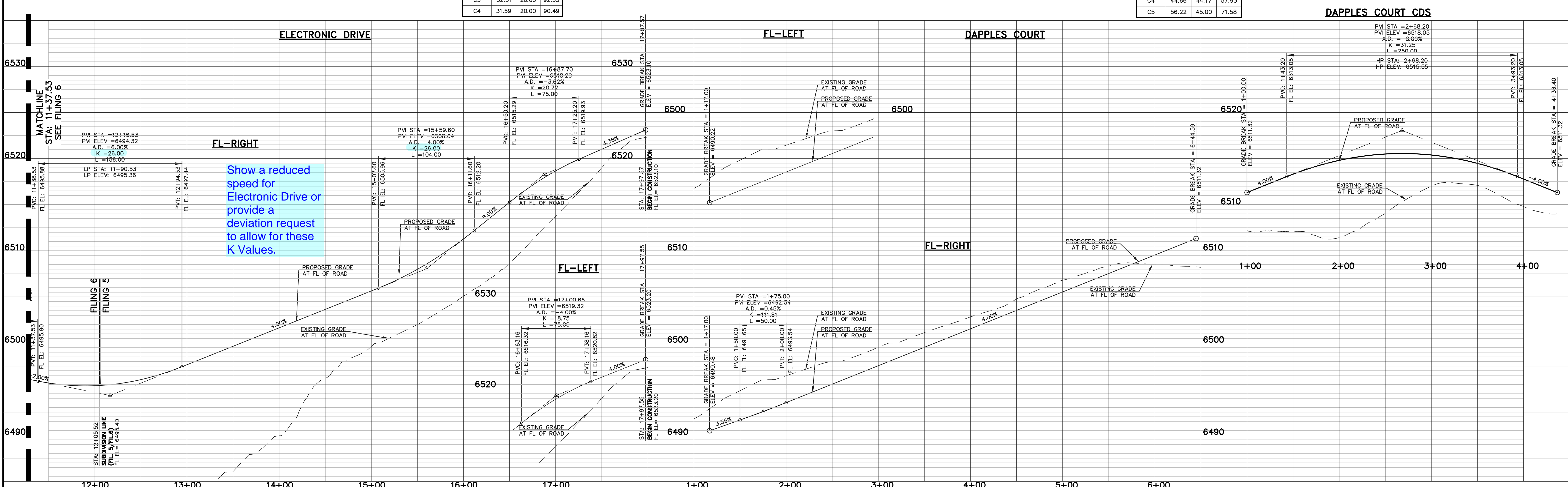
DAPPLES COURT
(PUBLIC 50' ROW) DESIGN SPEED - 25mph RESIDENTIAL

LENGTH	RADIUS	DELTA	
C1	194.33	125.00	89.08

LENGTH	RADIUS	DELTA	
C1	6.75	45.00	8.59
C2	63.62	44.17	82.53
C3	73.87	45.00	94.05
C4	44.66	44.17	57.93
C5	56.22	45.00	71.58

LENGTH	BEARING
L1	71.29 N02° 44' 58.68"W
L2	10.00 N72° 52' 42.23"E
L3	10.00 S09° 13' 21.15"W

SCALE: 1" = 50'



Show a reduced speed for Electronic Drive or provide a deviation request to allow for these K Values.



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NO.	REVISION	DATE

REVIEW:
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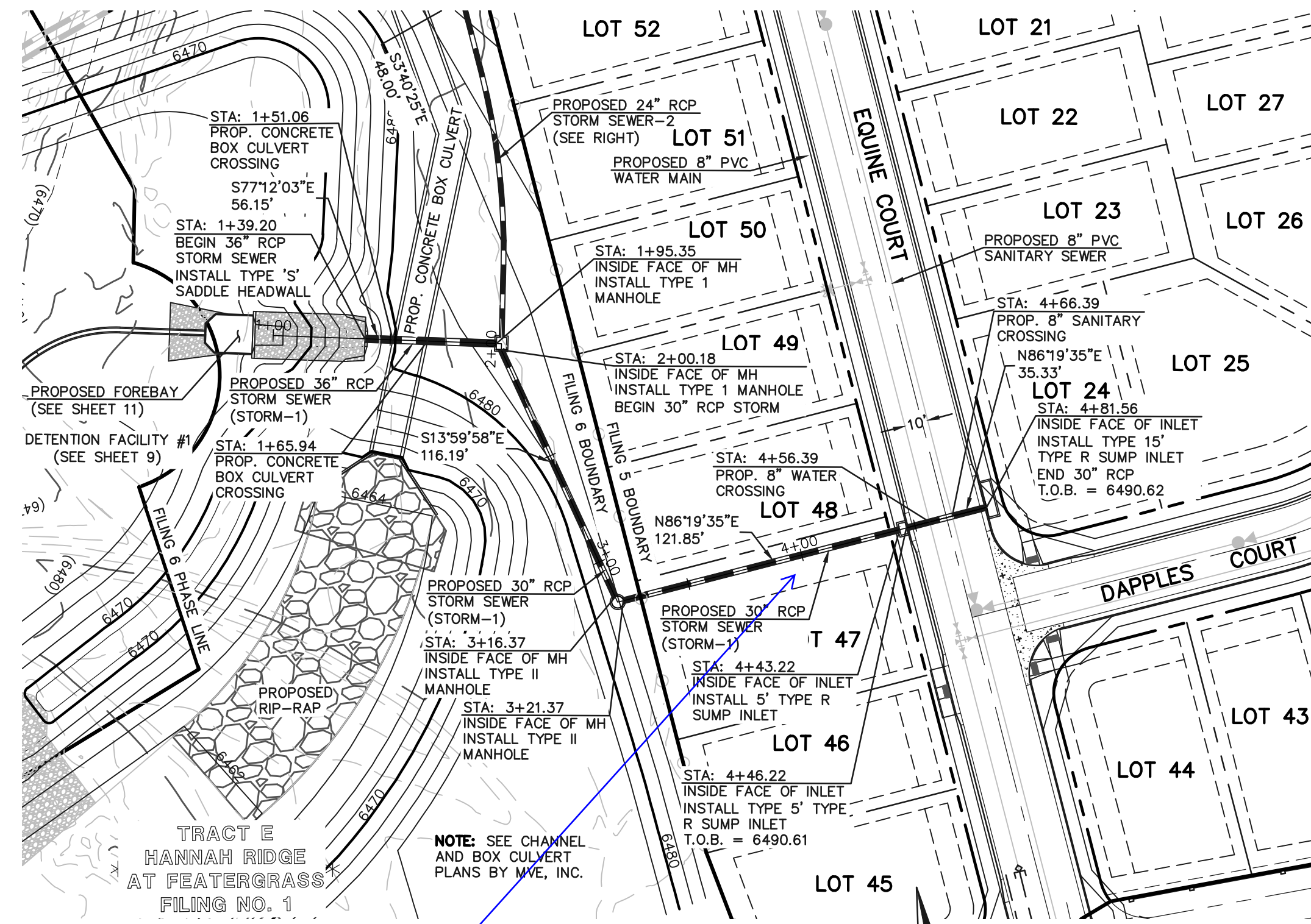
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



HANNAH RIDGE AT FEATHERGRASS
FILING NO. 5
STREET IMPROVEMENT PLANS
ELECTRONIC DRIVE/DAPPLES COURT

DESIGNED BY	KRC	SCALE	DATE	10/12/18
DRAWN BY	KC	(H) 1" = 50'	SHEET	7 OF 11
CHECKED BY	(V) 1" = NA	JOB NO.	1116.05	

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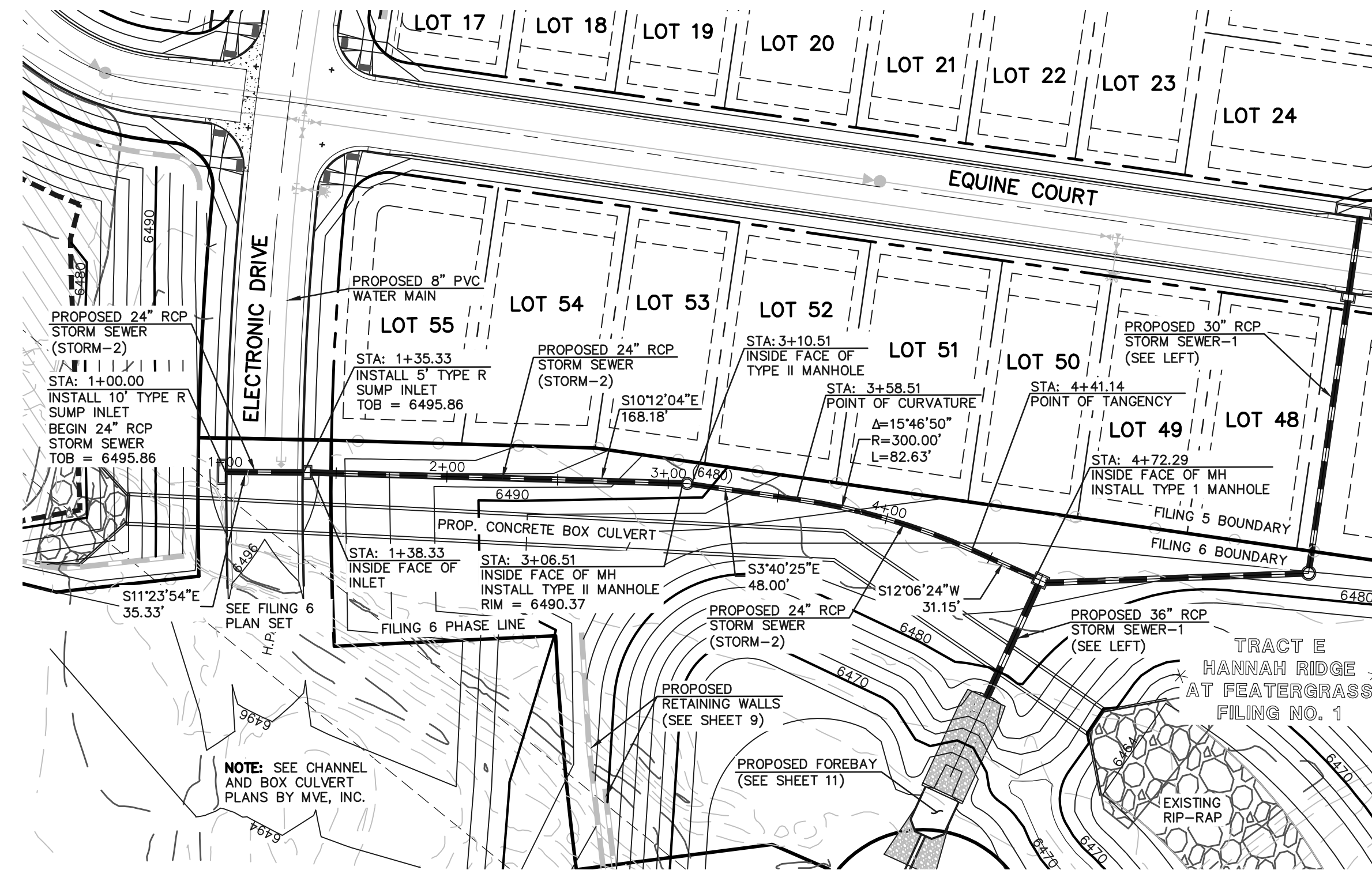


STORM SEWER RUN 1

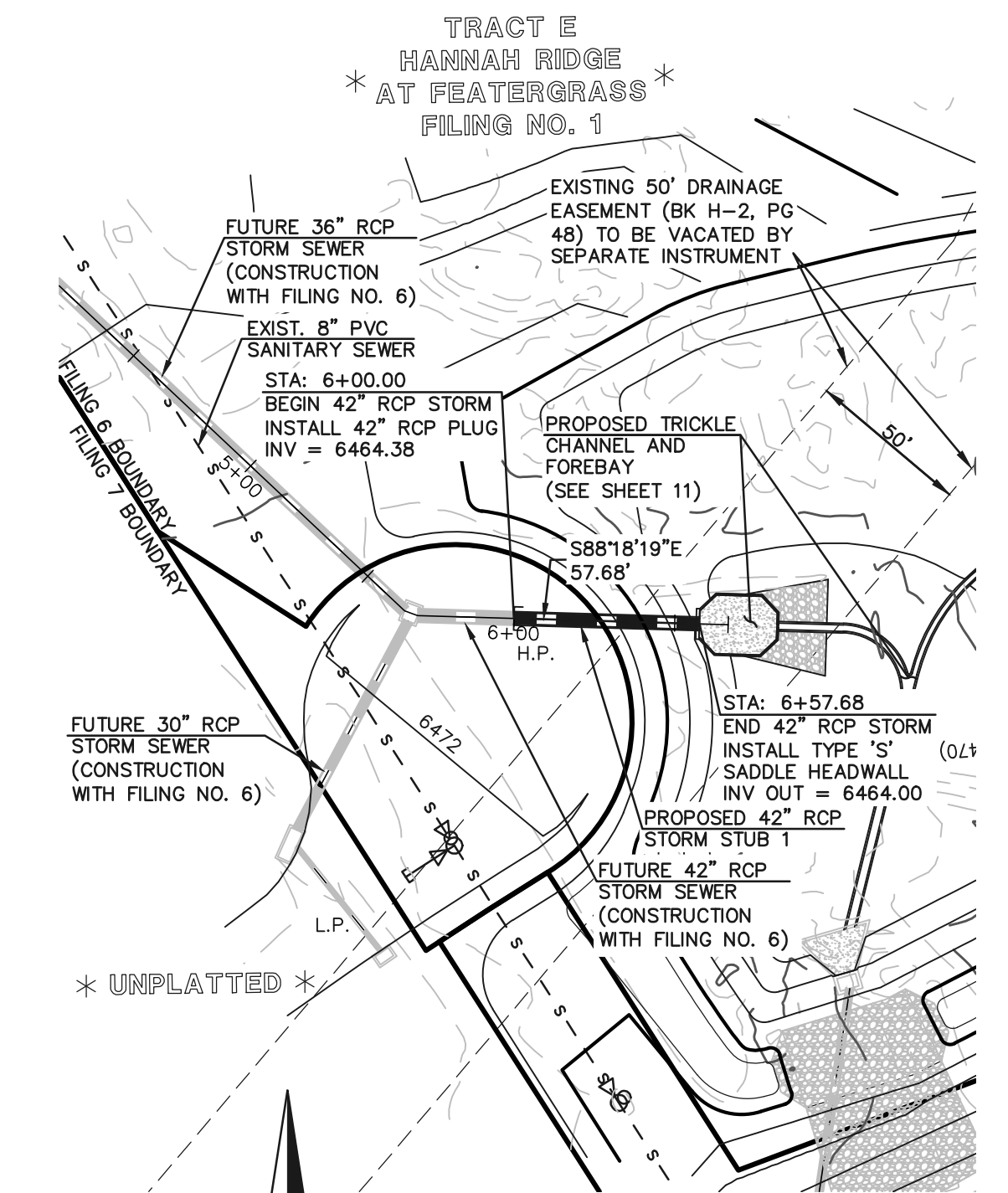
Call out Public Drainage easement.

50 25 0 50 100

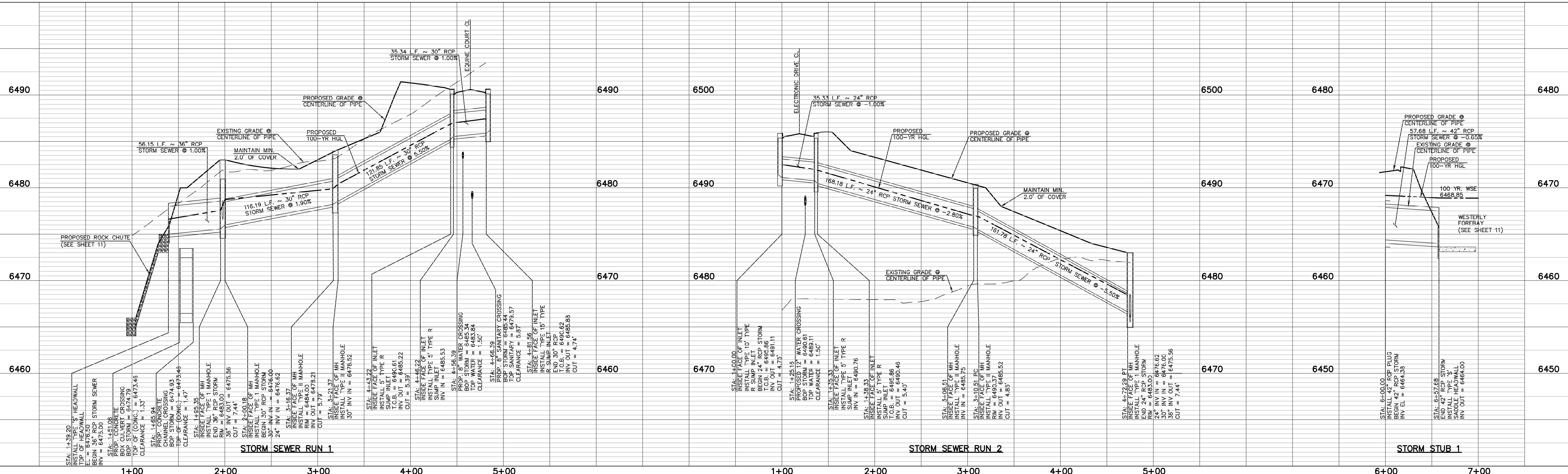
SCALE: 1" = 50' HORIZ.
SCALE: 1" = 5' VERT.



STORM SEWER RUN 2



STORM STUB 1



STORM SEWER RUN 1

STORM SEWER RUN 2

STORM STUB 1

LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN
	EXISTING SANITARY SEWER MAIN
	EXISTING STORM SEWER
	EXISTING STORM INLET
	EXISTING GAS MAIN
	EXISTING ELECTRIC

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REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

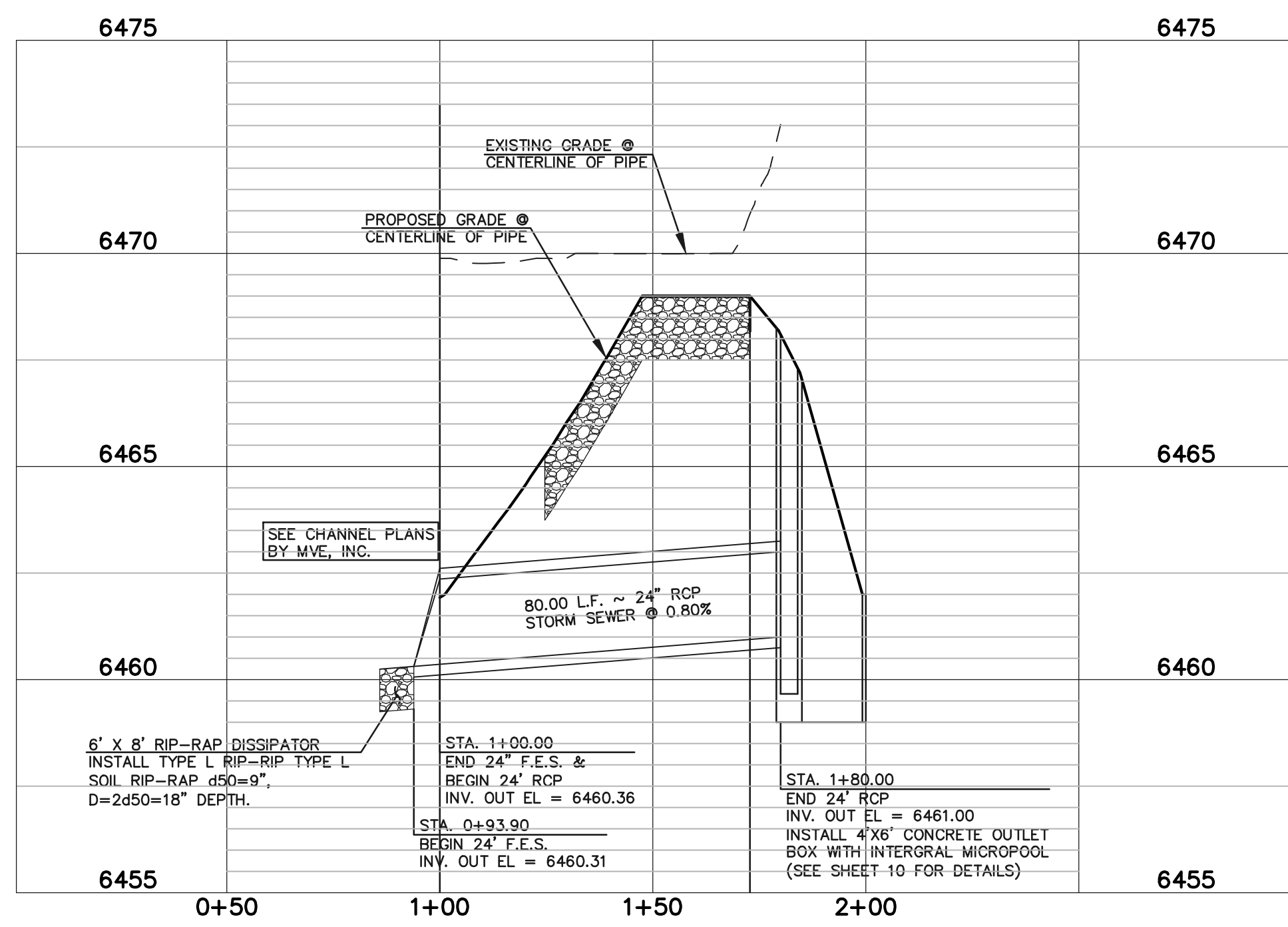
CLASSIC
CONSULTING ENGINEERS & SURVEYORS

HANNAH RIDGE AT FEATHERGRASS
FILING NO. 5
PUBLIC STORM SEWER PLANS

DESIGNED BY	MAW	SCALE	DATE	10/12/18
DRAWN BY	ESO	(H) 1" = 50'	SHEET	8 OF 11
CHECKED BY	(V) 1" = NA	JOB NO.	1116.05	

618 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0780
(719) 785-0799 (fax)

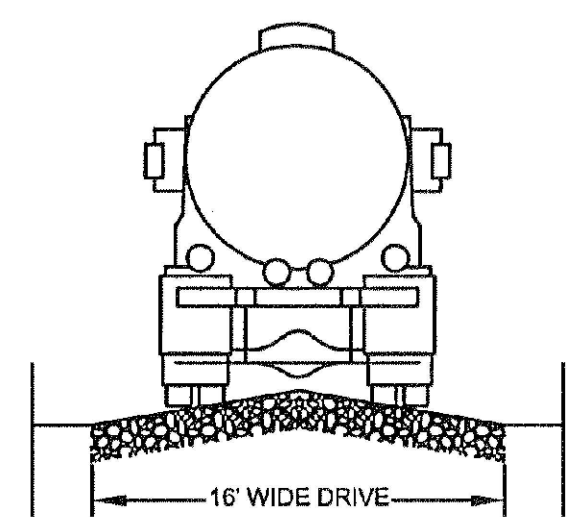
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**DETENTION FACILITY NO. 1
POND OUTLET PROFILE**

SCALE: HORIZONTAL 1"=30'
VERTICAL 1"=3'

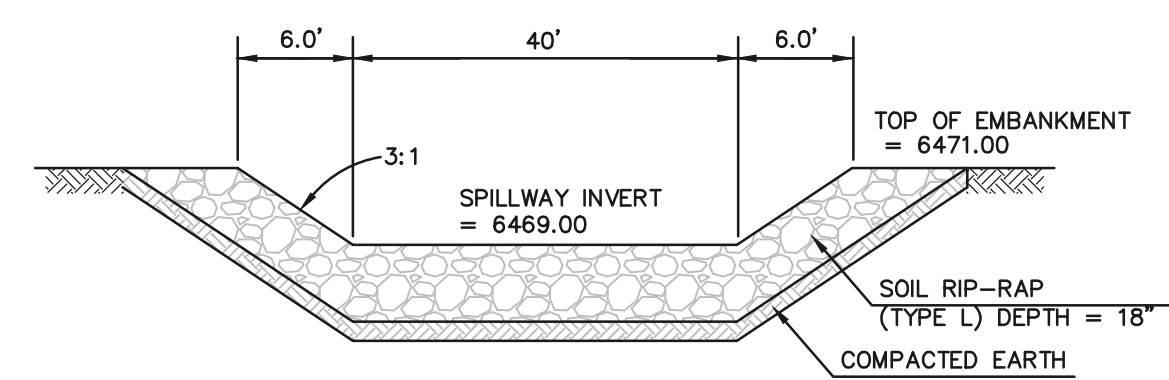
INSTALL JOINT FASTENERS FROM
STA: 0+93.90-1+50.00



TYPICAL ACCESS ROAD CROSS SECTION

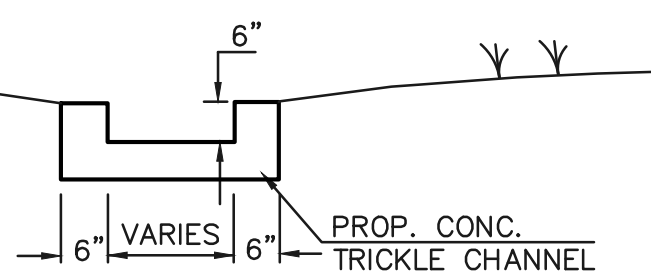
**TYPICAL ACCESS ROAD
CROSS SECTION**

SCALE: N.T.S.



**EMERGENCY SPILLWAY
CROSS SECTION**

SCALE: N.T.S.



**TRICKLE CHANNEL
TYPICAL SECTION**

SCALE: N.T.S.

FILL/EMBANKMENT SHALL BE PLACED IN THIN LOOSE LIFTS, MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D1557). PLACEMENT AND COMPACTION SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEERING FIRM.

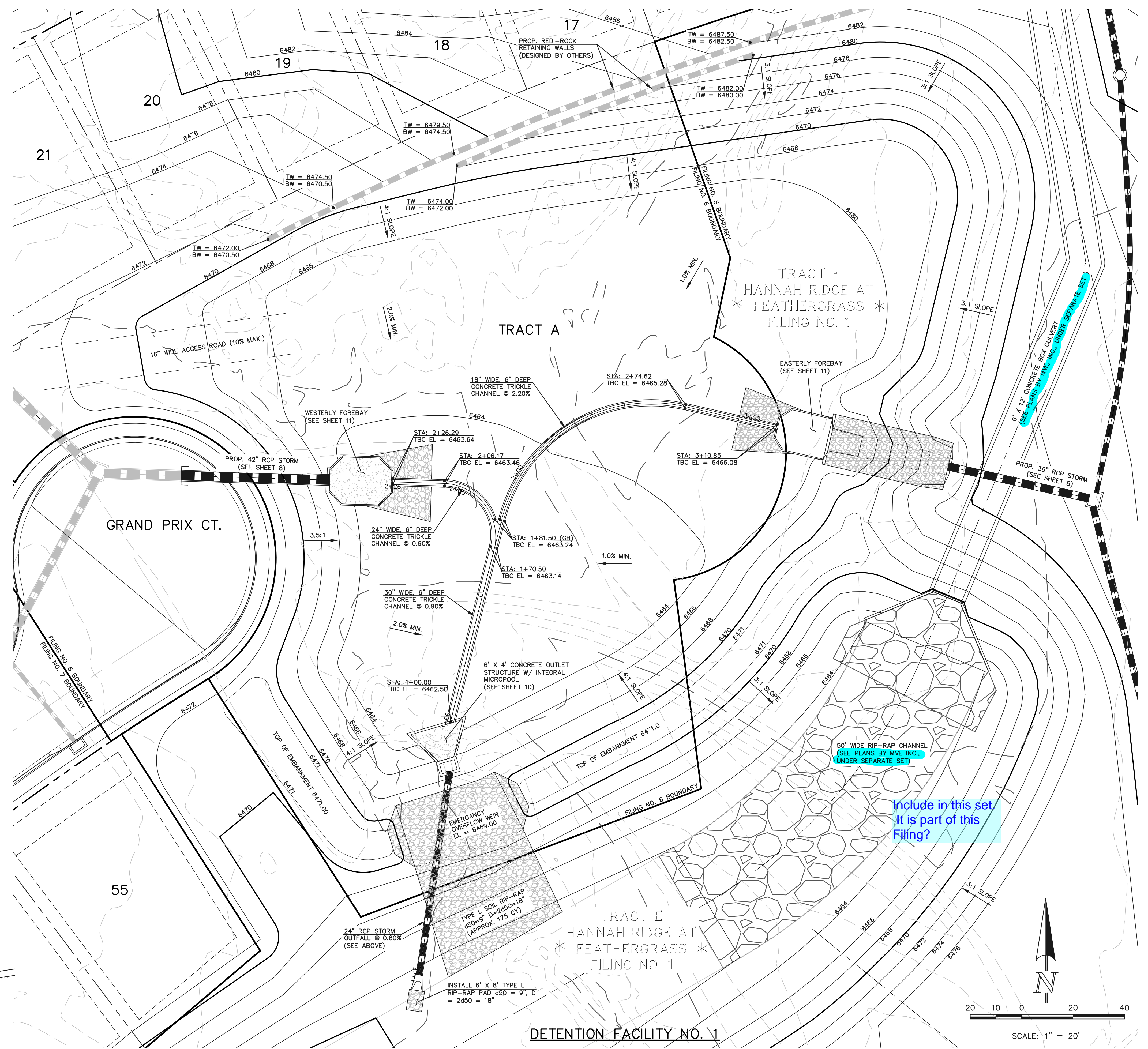
CONTRACTOR SHALL GRUB THE ENTIRE EMBANKMENT AREA TO DEPTH/CONDITION DIRECTED BY THE GEOTECHNICAL ENGINEER.

EXCAVATE TO THE SHOWN LIMITS THEN BACKFILL IN THIN LAYERS MOISTURE CONDITIONED WITHIN 2% OF OPTIMUM AND COMPACTED TO AT LEAST 95% MAX. MODIFIED PROCTOR DRY DENSITY.

**SECTION A
TYPICAL EMBANKMENT
WITH SOIL KEYWAY**

SCALE: N.T.S.

* UPON GRUBBING EXISTING SOILS IN EMBANKMENT AREA, ENGINEER SHALL BE CONTACTED TO DETERMINE SOIL QUALITY. IF POOR PERMEABILITY IS FOUND (I.E. SANDY-SILT) ONLY TOP 2' X 14' PORTION OF EMBANKMENT KEY IS REQUIRED FOR CONSTRUCTION.



DETENTION FACILITY NO. 1

Include in this set
It is part of this
Filing?

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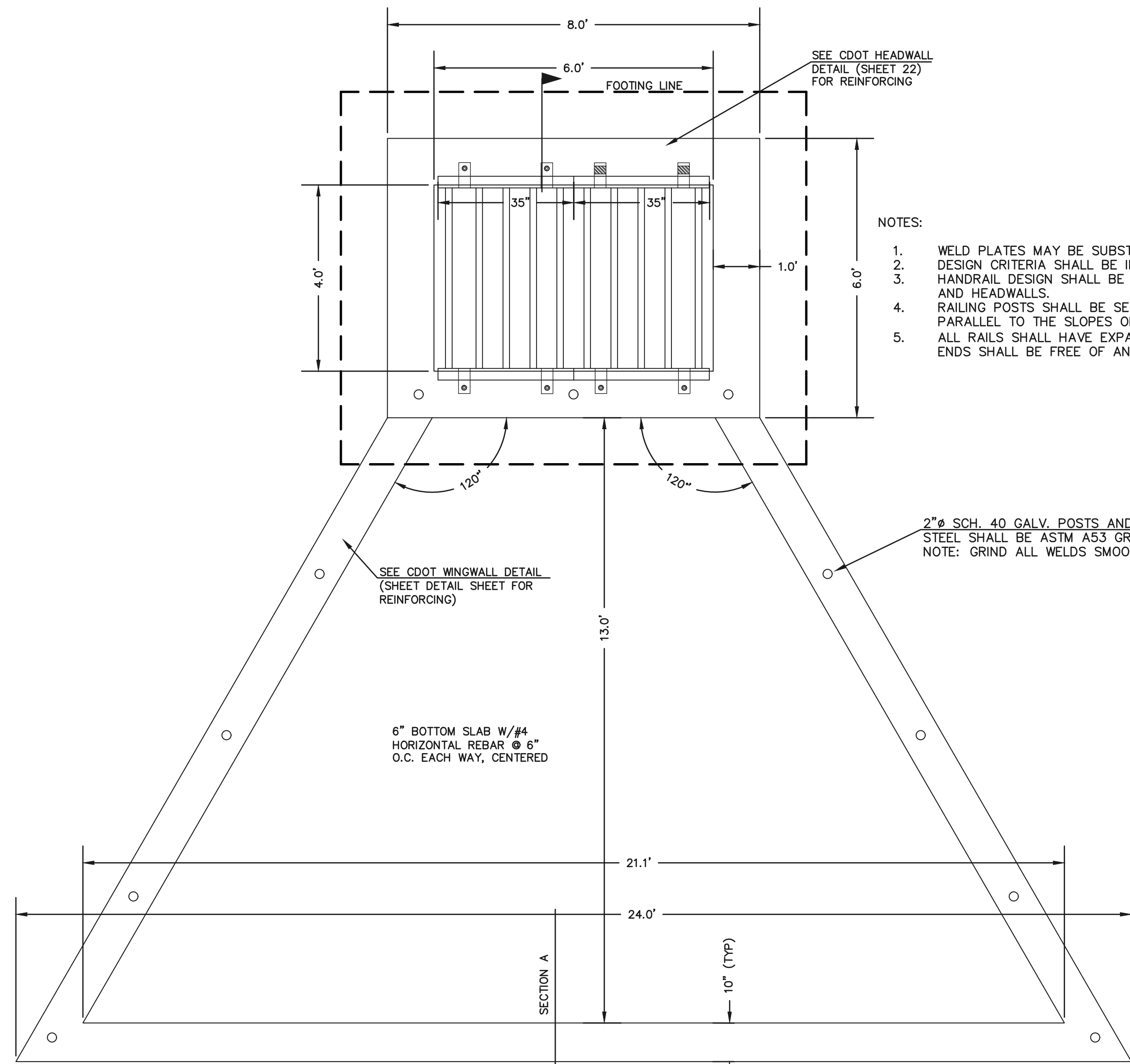
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

CLASSIC
CONSULTING ENGINEERS & SURVEYORS

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Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

HANNAH RIDGE AT FEATHERGRASS FIL. 5			
CONSTRUCTION DRAWINGS			
DETENTION FACILITY NO. 1			
POND PLAN			
DESIGNED BY	MAW	SCALE	DATE 10/12/18
DRAWN BY	ESO	(H) 1"= 30'	SHEET 9 OF 11
CHECKED BY	(V) 1"= 3'	JOB NO.	1116.05

N:\111605\DRAWINGS\CONSTRUCTION\FILING 5\09 - POND 1 PLAN.dwg, 10/22/2018 3:18:36 PM, 1:1

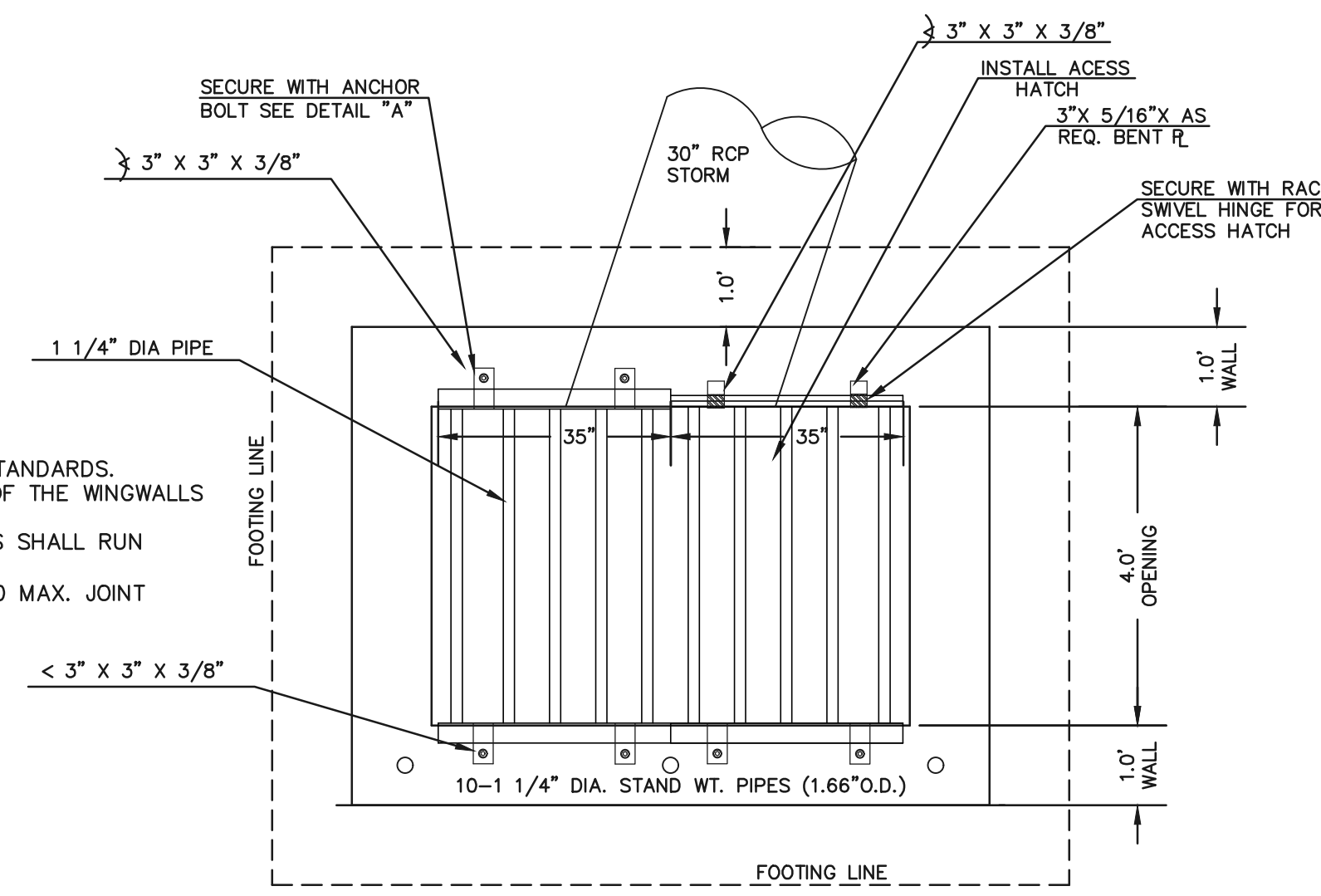


CONCRETE MICROPOOL
SCALE 1" = 2'

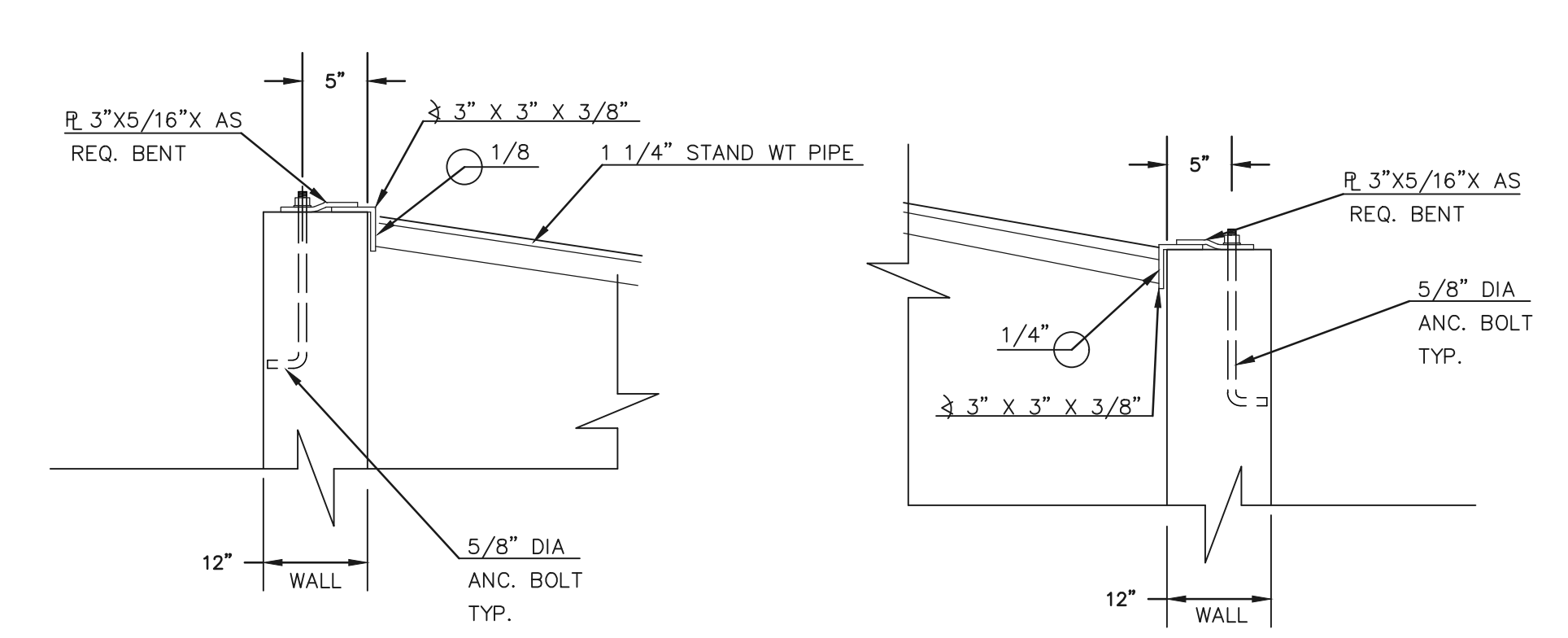
NOTES:

1. WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
2. HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
3. RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
4. ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.

2" SCH. 40 GALV. POSTS AND RAILS
STEEL SHALL BE ASTM A53 GR. B
NOTE: GRIND ALL WELDS SMOOTH

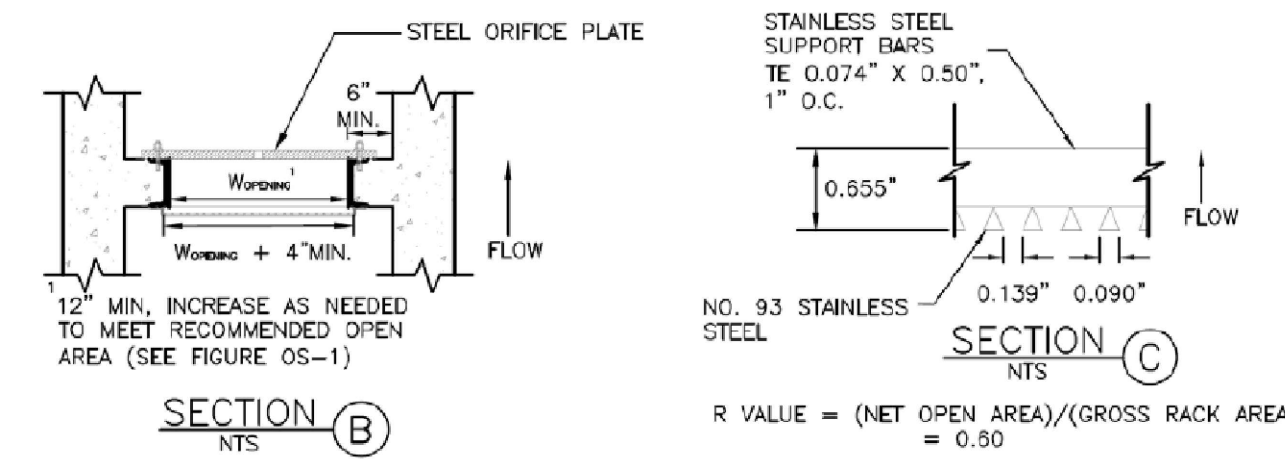


6'X4' OUTLET BOX OVERFLOW TRASH RACK
SCALE 1" = 2'



MICROPOOL RAILING

OUTLET BOX RAILING
N.T.S.



100-YR W.S.E. = 6468.85

EURV W.S.E. = 6466.95 / 5 YEAR W.S.E. = 6467.21

2 YEAR W.S.E. = 6466.50

WQCV YR W.S.E. = 6464.91

(ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)

ORIFICE PLATE NOTES:

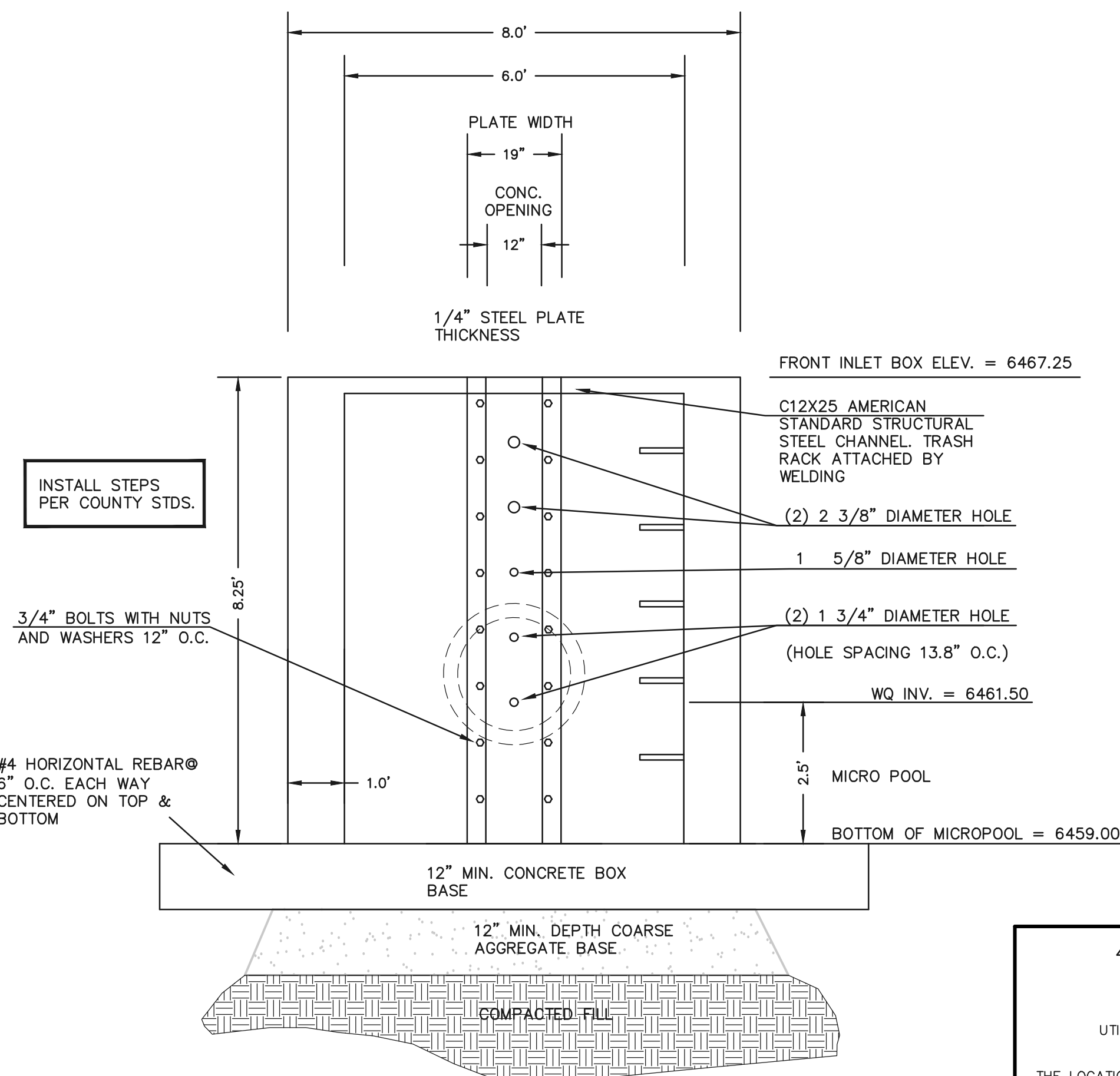
1. INSTALL HOLES AS SHOWN ON DETAIL TO RIGHT.
2. PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

EURV AND WQCV TRASH RACKS:

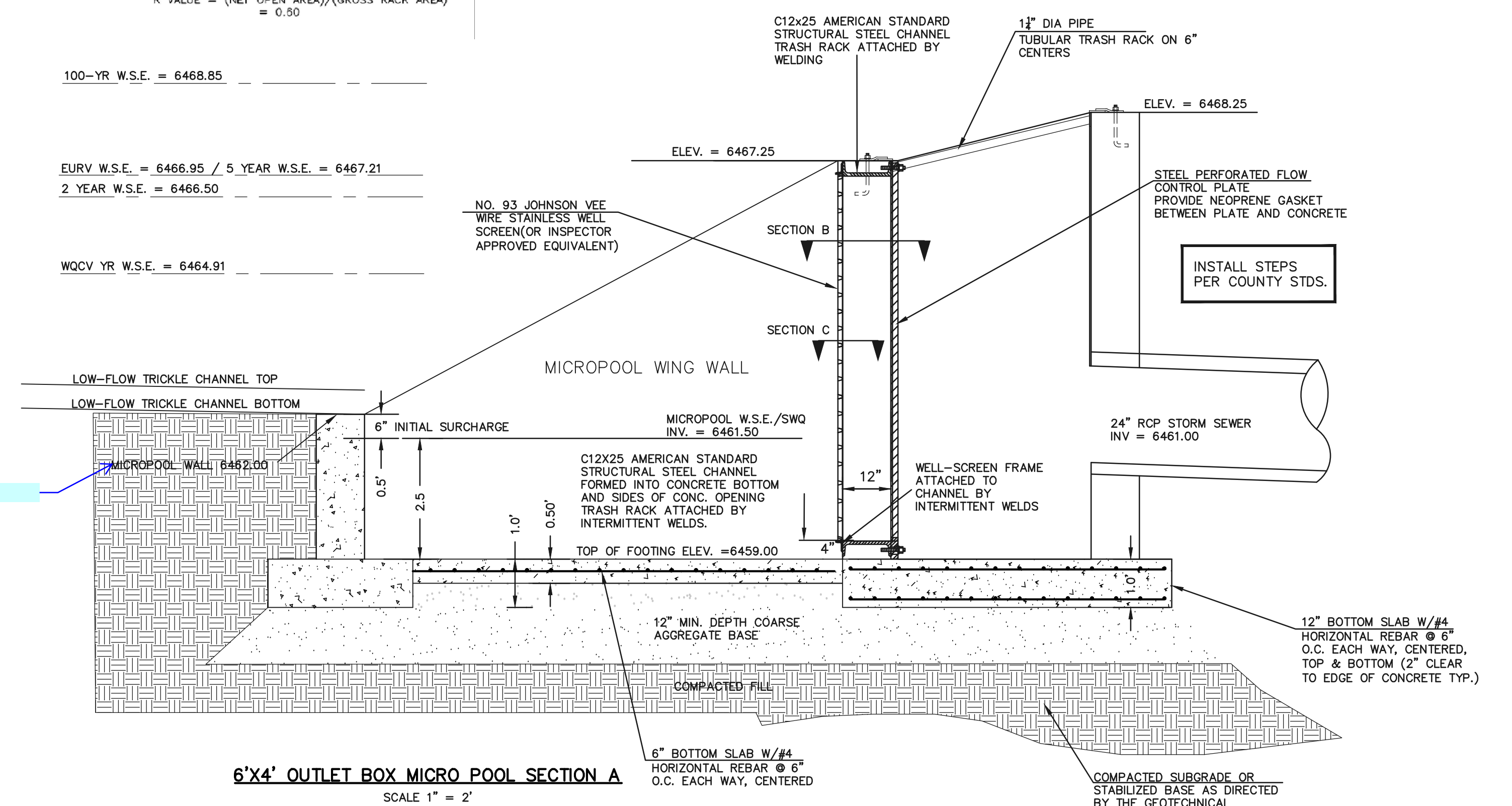
3. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
4. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
5. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK

OVERFLOW TRASH RACKS:

1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS
2. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
3. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
4. STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

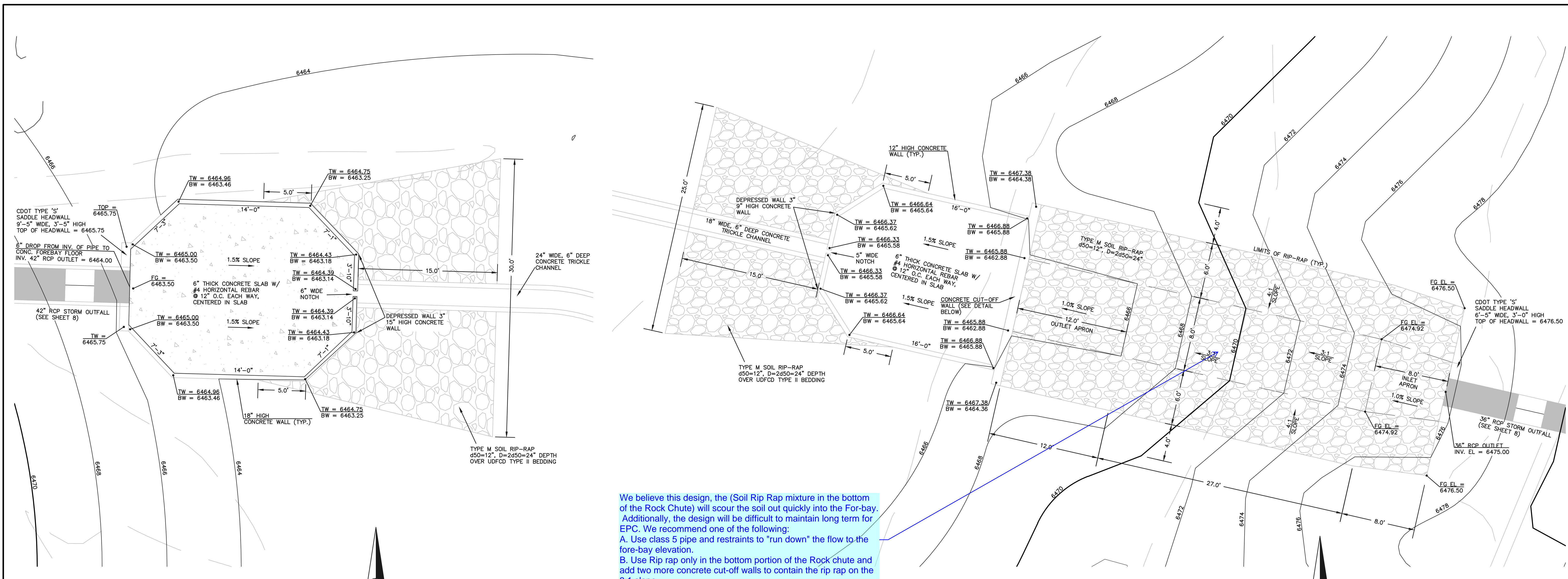


6'X4' OUTLET BOX ORIFICE PLATE
SCALE 1" = 2'

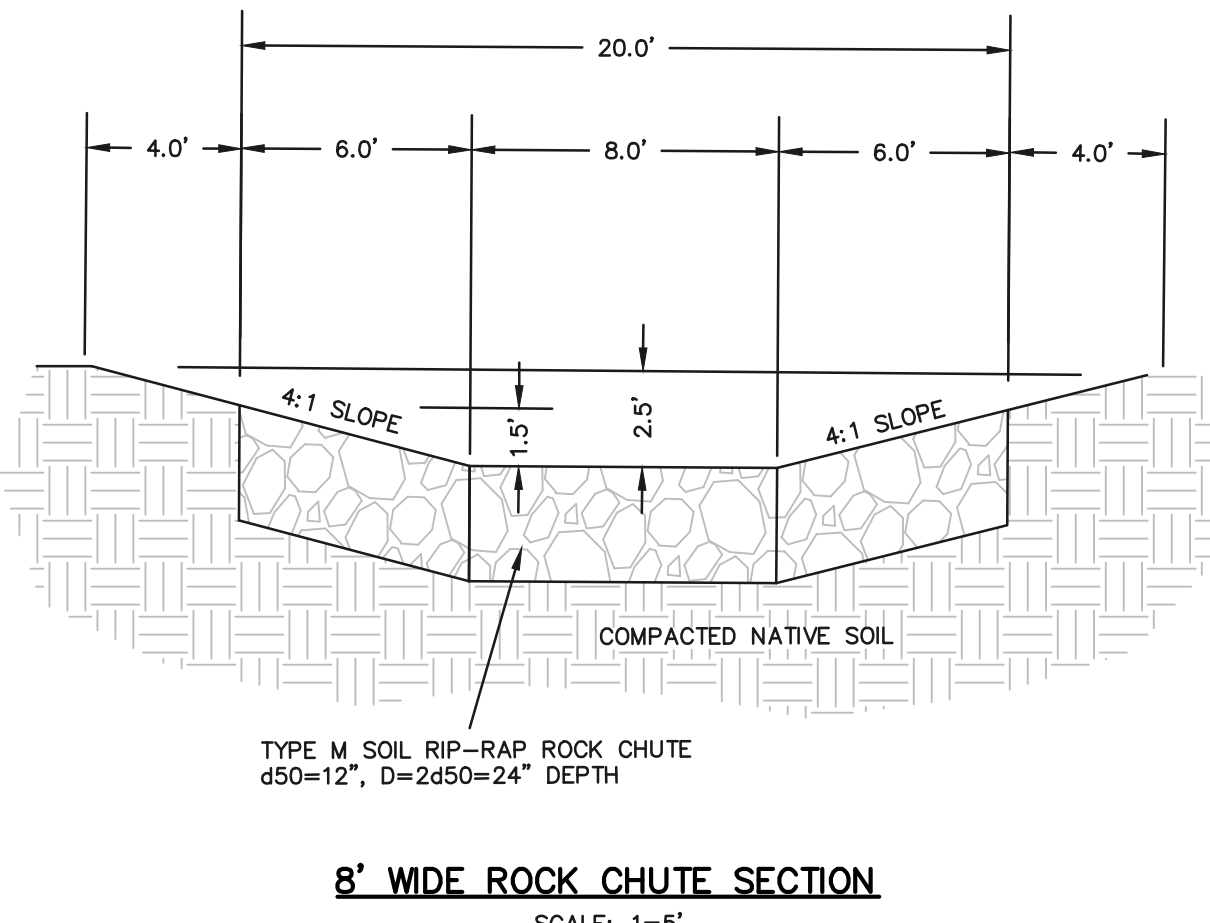
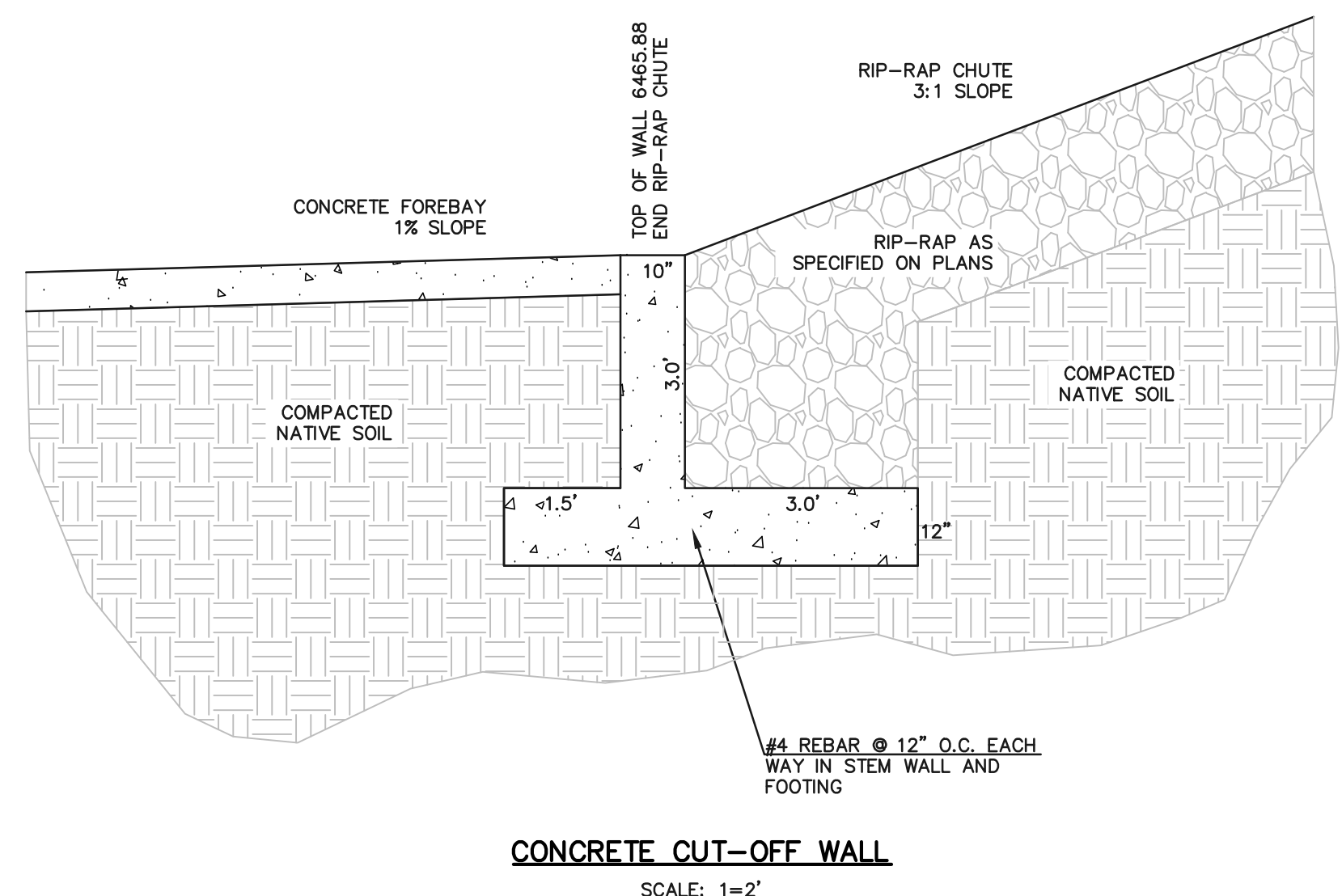
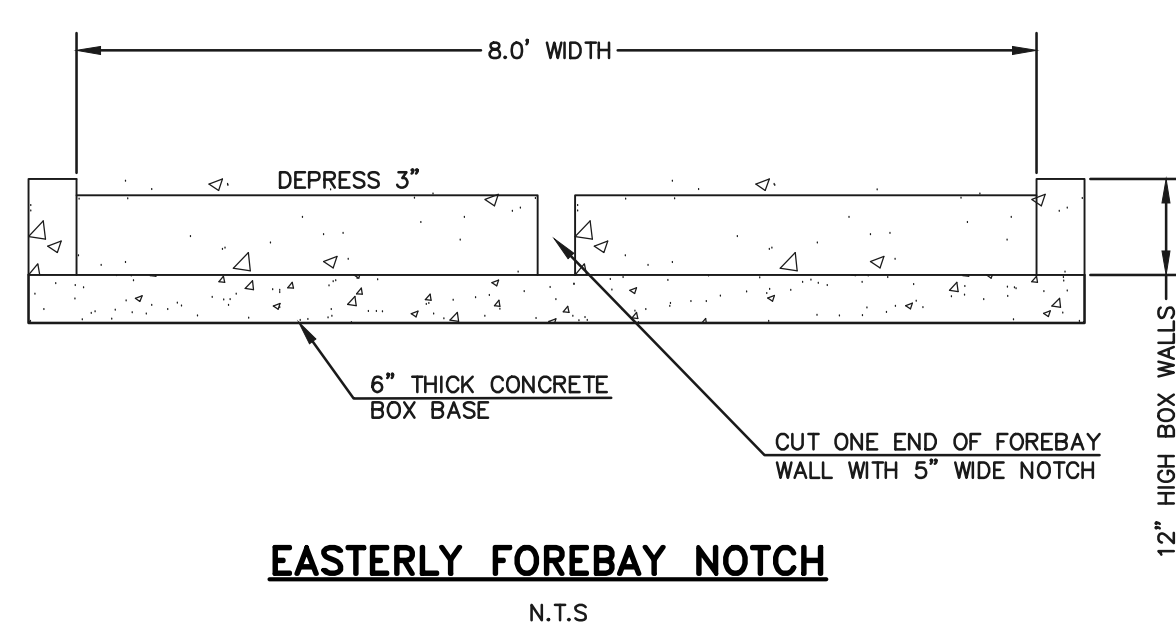
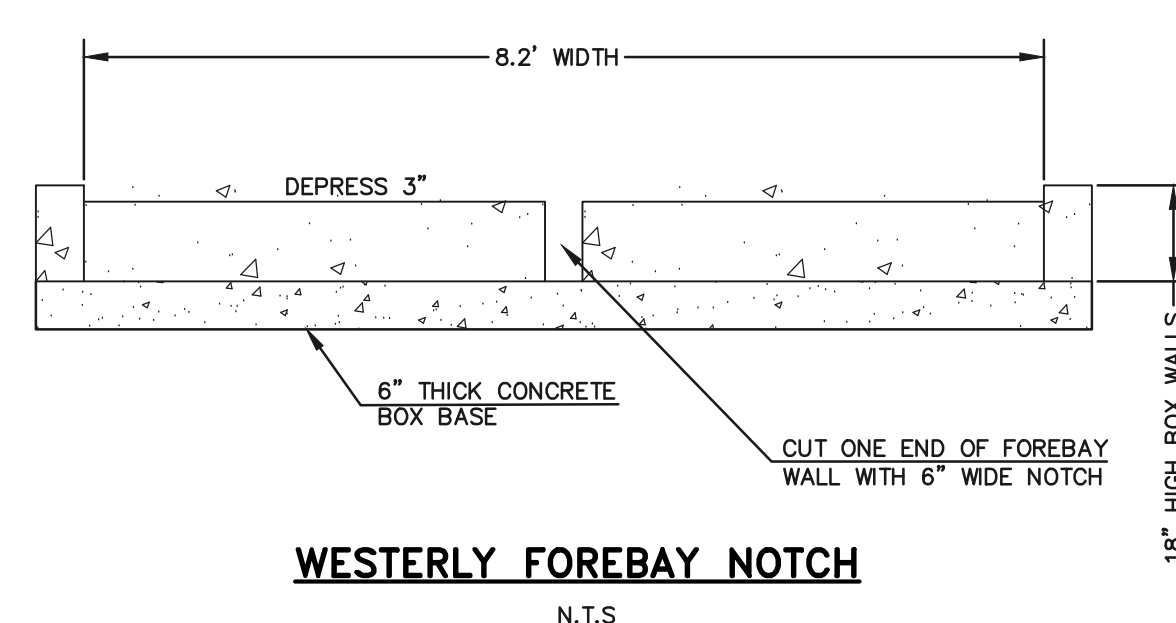


6'X4' OUTLET BOX MICRO POOL SECTION A
SCALE 1" = 2'

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We believe this design, the (Soil Rip Rap mixture in the bottom of the Rock Chute) will scour the soil out quickly into the For-bay. Additionally, the design will be difficult to maintain long term for EPC. We recommend one of the following:
 A. Use class 5 pipe and restraints to "run down" the flow to the fore-bay elevation.
 B. Use Rip rap only in the bottom portion of the Rock chute and add two more concrete cut-off walls to contain the rip rap on the 3:1 slope.



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KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

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Colorado Springs, Colorado 80903

(719) 785-0790
(719) 785-0799 (Fax)

HANNAH RIDGE AT FEATHERGRASS FIL. 5			
CONSTRUCTION DRAWINGS			
DETENTION FACILITY NO. 1			
ROCK CHUTE / FOREBAY DETAILS			
DESIGNED BY	MAW	SCALE	DATE 10/12/18
DRAWN BY	MAW	(H) 1" = 5'	SHEET 11 OF 11
CHECKED BY	(V) 1" = N/A	JOB NO.	1116.05

N:\11605\DRAWINGS\CONSTRUCTION\PLAN\5\11-pond 1 OUTLET-FOREBAY.dwg, 10/22/2018 3:17:39 PM, 1:1

Markup Summary

Steve Kuehster (24)

Jennifer Irvine, P.E. TX
VIEWED AND APPROVED FOR SANITARY SEWER

Subject: text box
Page Label: 1
Author: Steve Kuehster
Date: 11/13/2018 8:35:29 AM
Color: ■

Jennifer Irvine, P.E.

ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO PERMIT, U.S. ARMY CORPS OF ENGINEERS-DSO AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGNER.
Change DSD To PCD
PASO COUNTY DSD PRIOR TO PLACEMENT OF CURB
THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED.

Subject: text box
Page Label: 1
Author: Steve Kuehster
Date: 11/13/2018 8:48:08 AM
Color: ■

Change DSD To PCD

INSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND PERMITS. PASO COUNTY STANDARDS, FOLLOW THE MANUAL VOLUME 2. ANY DEVIATIONS FROM PERMITS AFTER THE FACT WILL BE ENTIRELY THE DESIGNER'S RESPONSIBILITY.
ON THE CONSTRUCTION PLANS, ANY MODIFICATIONS TO THE PERMITS, INCLUDING BUT NOT LIMITED TO PERMIT, U.S. ARMY CORPS OF ENGINEERS-DSO AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGNER.
Change DSD To PCD
TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO PERMIT, U.S. ARMY CORPS OF ENGINEERS-DSO AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGNER.

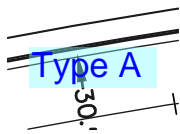
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Author: Steve Kuehster
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Change DSD To PCD

CO 80903
JL P.E. (719) 785-0790
P.E. DEPARTMENT
ORACLE
COLORADO 80010
P.O. BOX 7845
JEFF RICE, P.E. 520-7877
TRIST
ROAD
CO
(719) 597-5080
IRON DISTRICT
0831

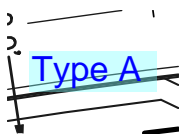
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Date: 11/13/2018 9:55:10 AM
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Jeff Rice, P.E. 520-7877



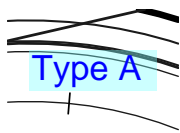
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Date: 11/15/2018 1:16:26 PM
Color: ■

Type A



Subject: text box
Page Label: 7
Author: Steve Kuehster
Date: 11/15/2018 1:16:34 PM
Color: ■

Type A



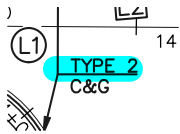
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Page Label: 6
Author: Steve Kuehster
Date: 11/15/2018 1:18:04 PM
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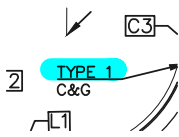
SF - 18 - 038
RIDGE AT FEATHERGRASS
0.5

Subject: text box
Page Label: 1
Author: Steve Kuehster
Date: 11/19/2018 2:29:05 PM
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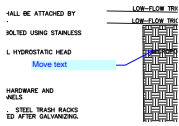
SF - 18 - 038



Subject: Highlight
Page Label: 6
Author: Steve Kuehster
Date: 11/19/2018 7:39:46 AM
Color: ■



Subject: Highlight
Page Label: 6
Author: Steve Kuehster
Date: 11/19/2018 7:39:52 AM
Color: ■



Subject: arrow & box
Page Label: 10
Author: Steve Kuehster
Date: 11/19/2018 9:17:59 AM
Color: ■

Move text



Subject: text box
Page Label: 3
Author: Steve Kuehster
Date: 11/20/2018 1:56:42 PM
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There is generally an insufficient amount of sediment control shown on this plan. For example:

There is only one TSB where they are recommended in the criteria to be placed for roughly one acre areas.
There is no concrete wash out shown.
There is no provisions for, or ditch checks provided to stop erosion where the curb and gutter will be constructed.
There are several areas (back yards, etc) where silt fence should be shown.



Subject: arrow & box
Page Label: 8
Author: Steve Kuehster
Date: 11/20/2018 10:19:26 AM
Color: ■

Call out Public Drainage easement.

Provide Signing and Striping Plans for all three filings.

Subject: text box
Page Label: 6
Author: Steve Kuehster
Date: 11/20/2018 12:34:54 PM
Color: ■

Provide Signing and Striping Plans for all three filings.

Use EPC Optional Type C C&G for Type C

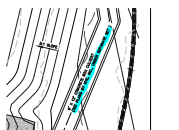
Subject: text box
Page Label: 2
Author: Steve Kuehster
Date: 11/20/2018 12:41:16 PM
Color: ■

Use EPC Optional Type C C&G for Type C

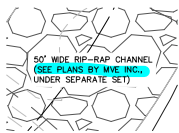


Subject: arrow & box
Page Label: 11
Author: Steve Kuehster
Date: 11/20/2018 12:57:07 PM
Color: ■

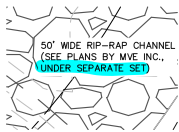
We believe this design, the (Soil Rip Rap mixture in the bottom of the Rock Chute) will scour the soil out quickly into the For-bay. Additionally, the design will be difficult to maintain long term for EPC. We recommend one of the following:
A. Use class 5 pipe and restraints to "run down" the flow to the fore-bay elevation.
B. Use Rip rap only in the bottom portion of the Rock chute and add two more concrete cut-off walls to contain the rip rap on the 3:1 slope.



Subject: Highlight
Page Label: 9
Author: Steve Kuehster
Date: 11/20/2018 2:06:22 PM
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Subject: Highlight
Page Label: 9
Author: Steve Kuehster
Date: 11/20/2018 2:06:35 PM
Color: ■



Subject: Highlight
Page Label: 9
Author: Steve Kuehster
Date: 11/20/2018 2:06:38 PM
Color: ■



Subject: text box
Page Label: 9
Author: Steve Kuehster
Date: 11/20/2018 2:07:17 PM
Color: ■

Include in this set. It is part of this Filing?

PVI STA =12+16.53
PVI ELEV =6494.32
A.D. =6.00%
K =26.00
L =156.00
LP STA: 11+90.53
LP ELEV: 6422.32

Subject: Highlight
Page Label: 7
Author: Steve Kuehster
Date: 11/20/2018 2:10:58 PM
Color: ■

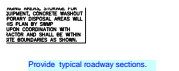
PVI STA =15+59.60
PVI ELEV =6508.04
A.D. =4.00%
K =26.00
L =104.00

Subject: Highlight
Page Label: 7
Author: Steve Kuehster
Date: 11/20/2018 2:11:04 PM
Color: ■

Show a reduced speed for Electronic Drive or provide a deviation request to allow for these K Values.

Subject: text box
Page Label: 7
Author: Steve Kuehster
Date: 11/20/2018 2:38:23 PM
Color: ■

Show a reduced speed for Electronic Drive or provide a deviation request to allow for these K Values.



Subject: text box
Page Label: 2
Author: Steve Kuehster
Date: 11/20/2018 8:12:33 AM
Color: ■

Provide typical roadway sections.