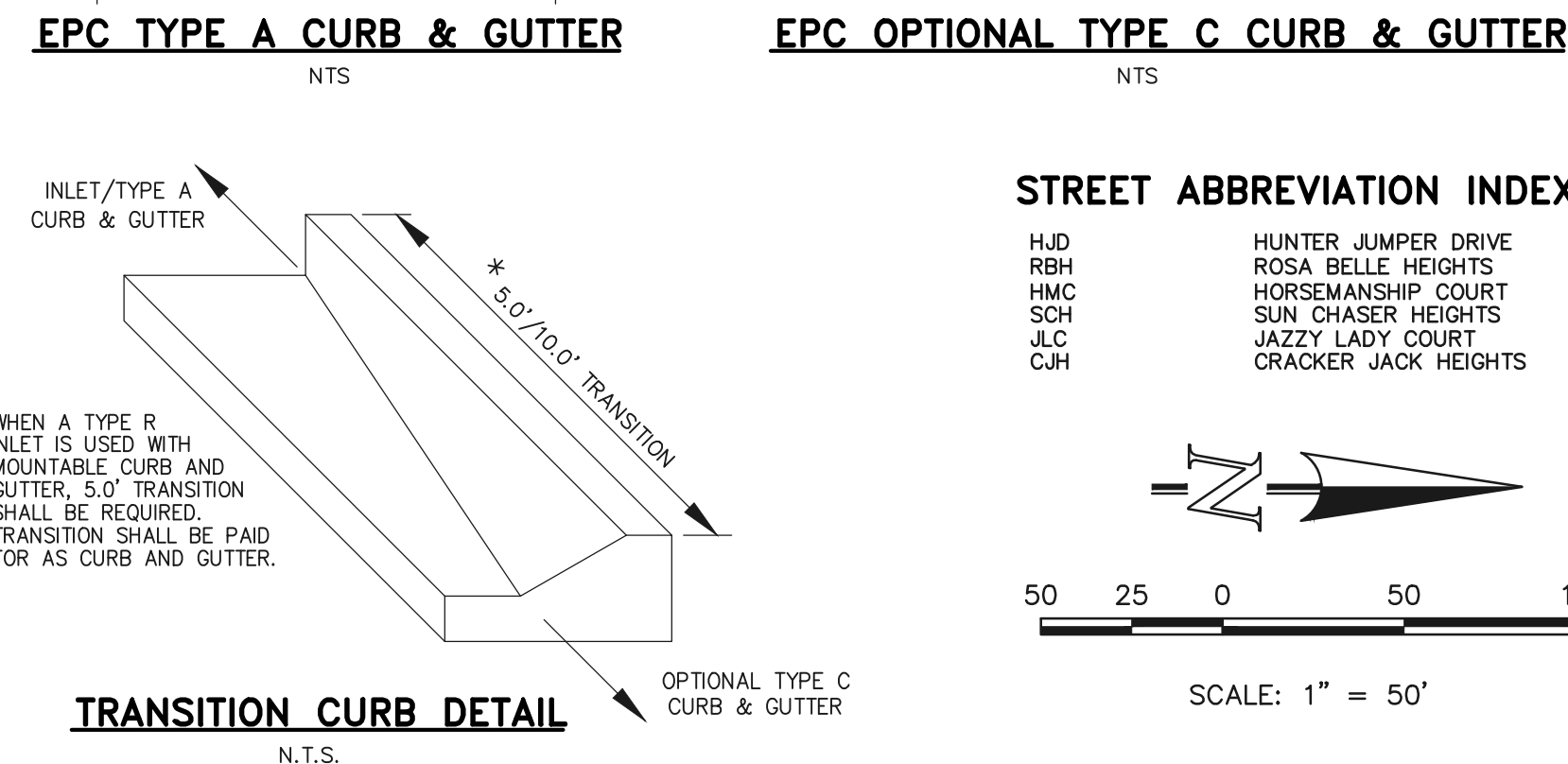
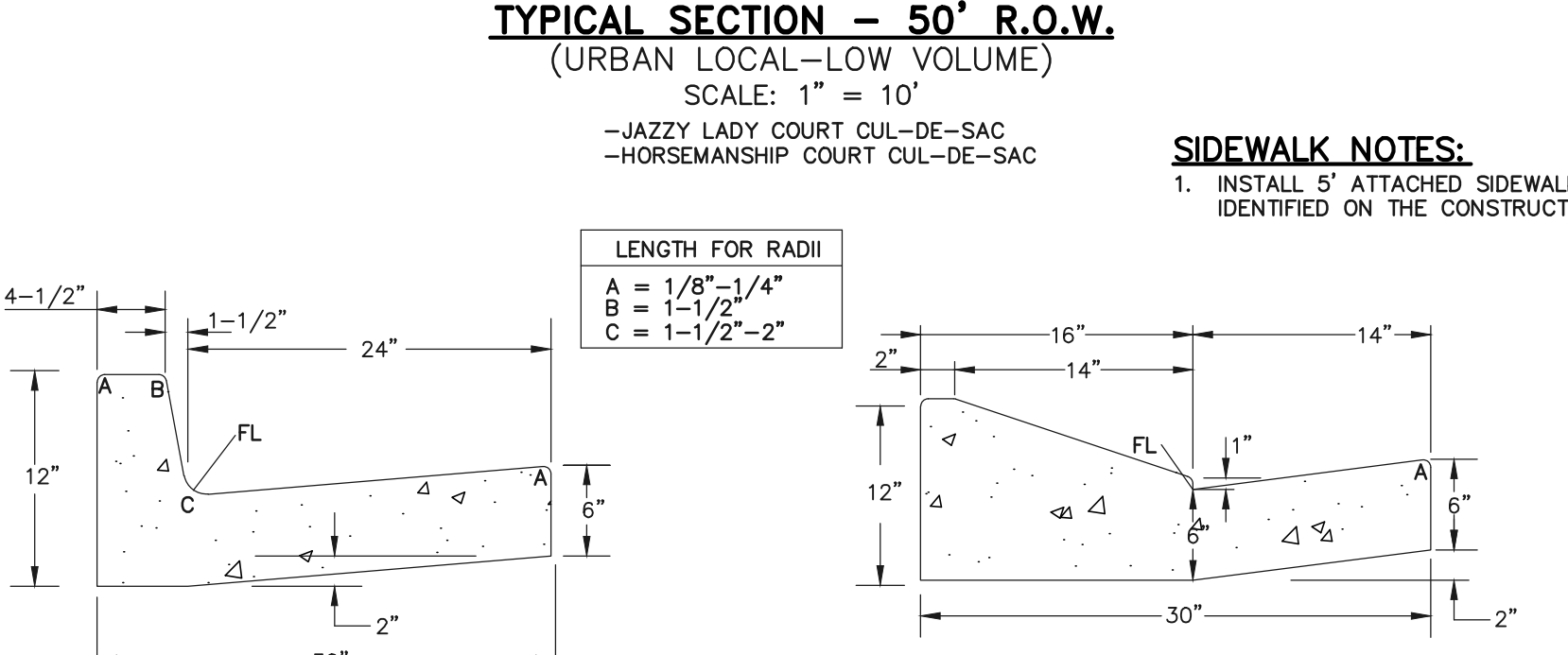
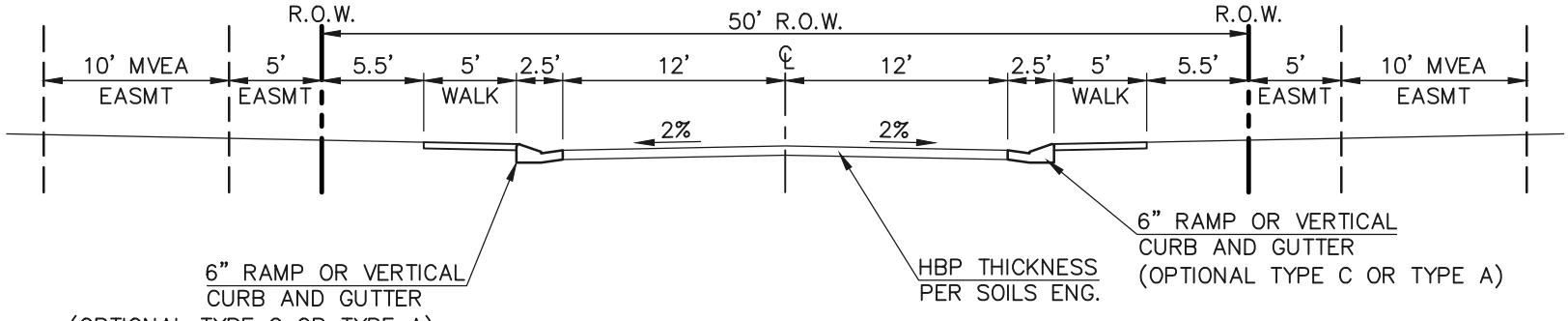


CENTERLINE LINE TABLE		
LINE	BEARING	DISTANCE
L1	N00°20'42"E	215.81'

FL CURB CURVE TABLE			
LINE	DELTA	RADIUS	LENGTH
F1	89°53'09"	20.00'	31.38'
F2	89°52'26"	20.00'	31.37'
F3	90°00'00"	15.00'	23.56'

LINE	BEARING	DISTANCE
F4	90°00'00"	15.00'
F5	71°12'09"	45.00'
F6	75°30'19"	45.00'
F7	25°56'59"	44.17'
F8	82°48'39"	45.00'

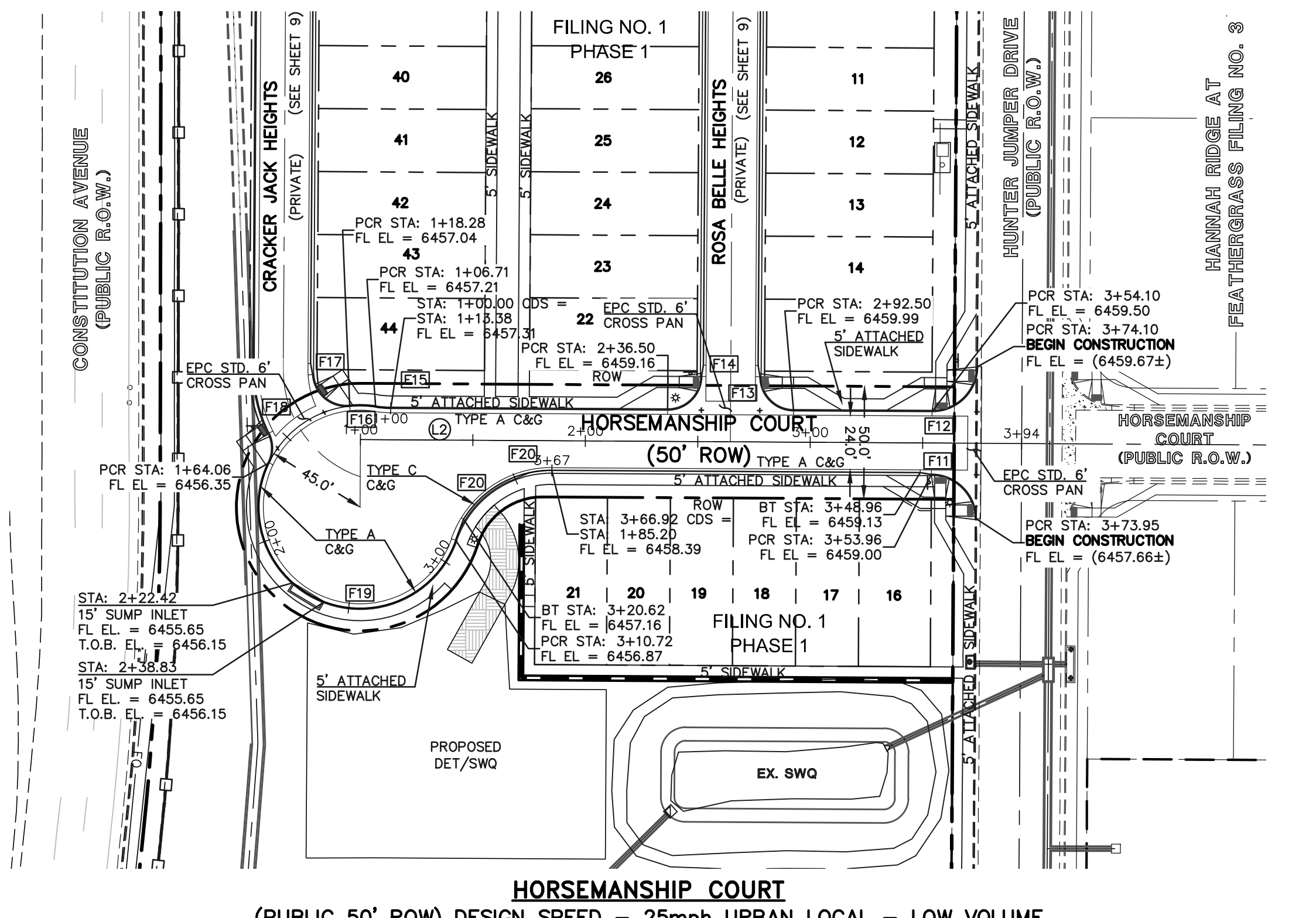
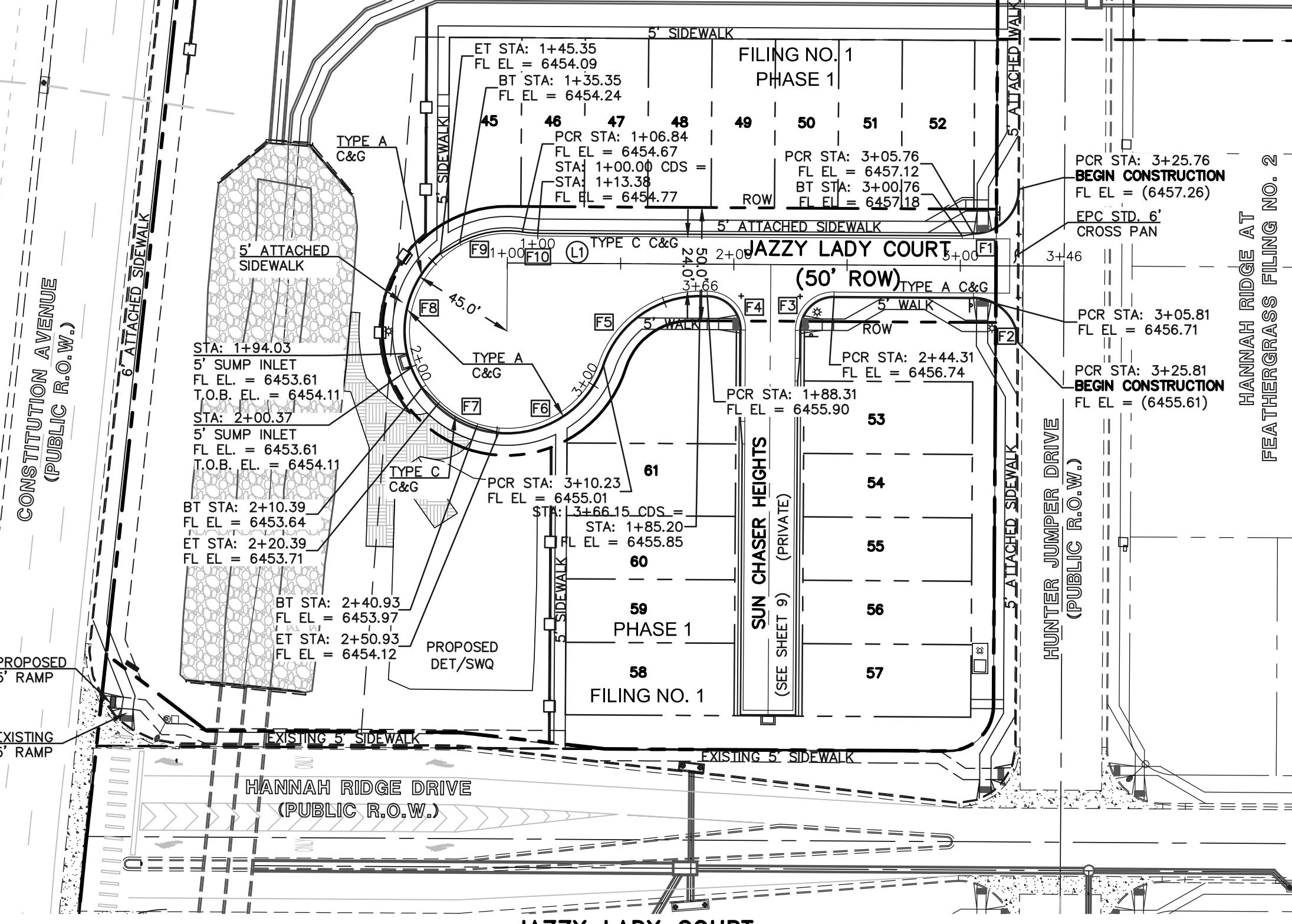
LINE	BEARING	DISTANCE
F9	36°59'03"	44.17'
F10	08°32'57"	45.83'
F11	88°39'46"	45.00'
F12	90°01'32"	20.00'
F13	90°00'00"	15.00'



CENTERLINE LINE TABLE		
LINE	BEARING	DISTANCE
L2	N00°20'42"E	264.00'

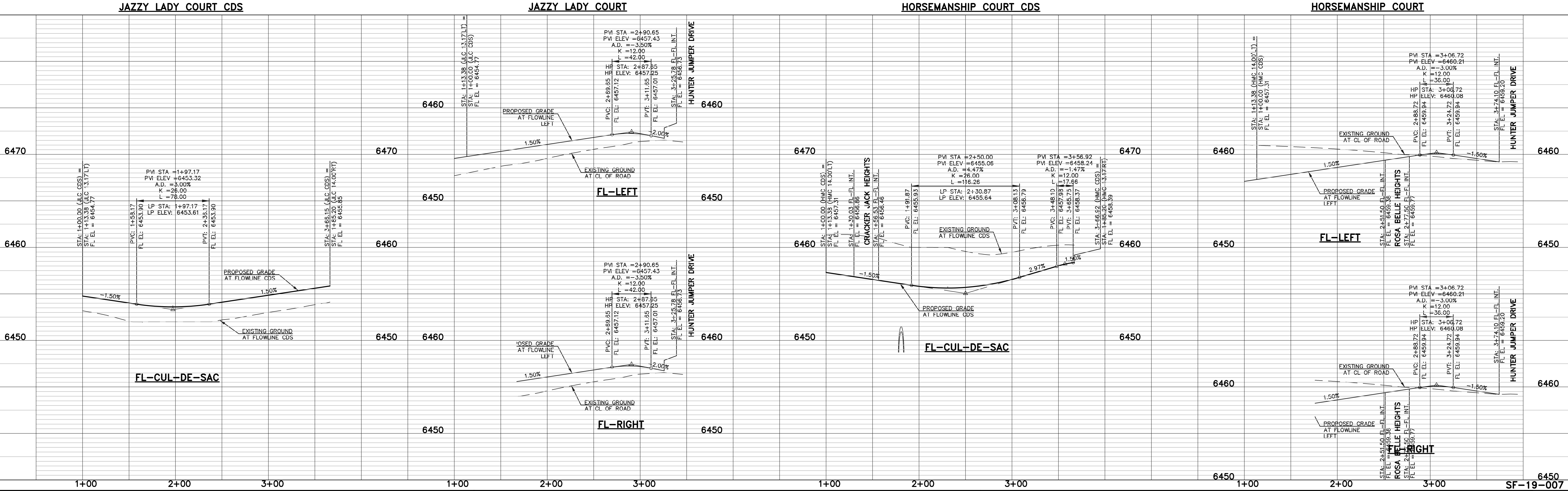
FL CURB CURVE TABLE			
LINE	DELTA	RADIUS	LENGTH
F14	90°00'00"	15.00'	23.56'
F15	08°32'57"	45.00'	6.71'
F16	14°43'43"	45.00'	11.57'
F17	92°39'54"	15.00'	24.28'
F18	52°18'32"	15.00'	13.68'

LINE	BEARING	DISTANCE
F19	186°44'21"	45.00'
F20	58°36'15"	45.83'



JAZZY LADY COURT (PUBLIC 50' ROW) DESIGN SPEED - 25mph URBAN LOCAL - LOW VOLUME

HORSEMANSHIP COURT (PUBLIC 50' ROW) DESIGN SPEED - 25mph URBAN LOCAL - LOW VOLUME



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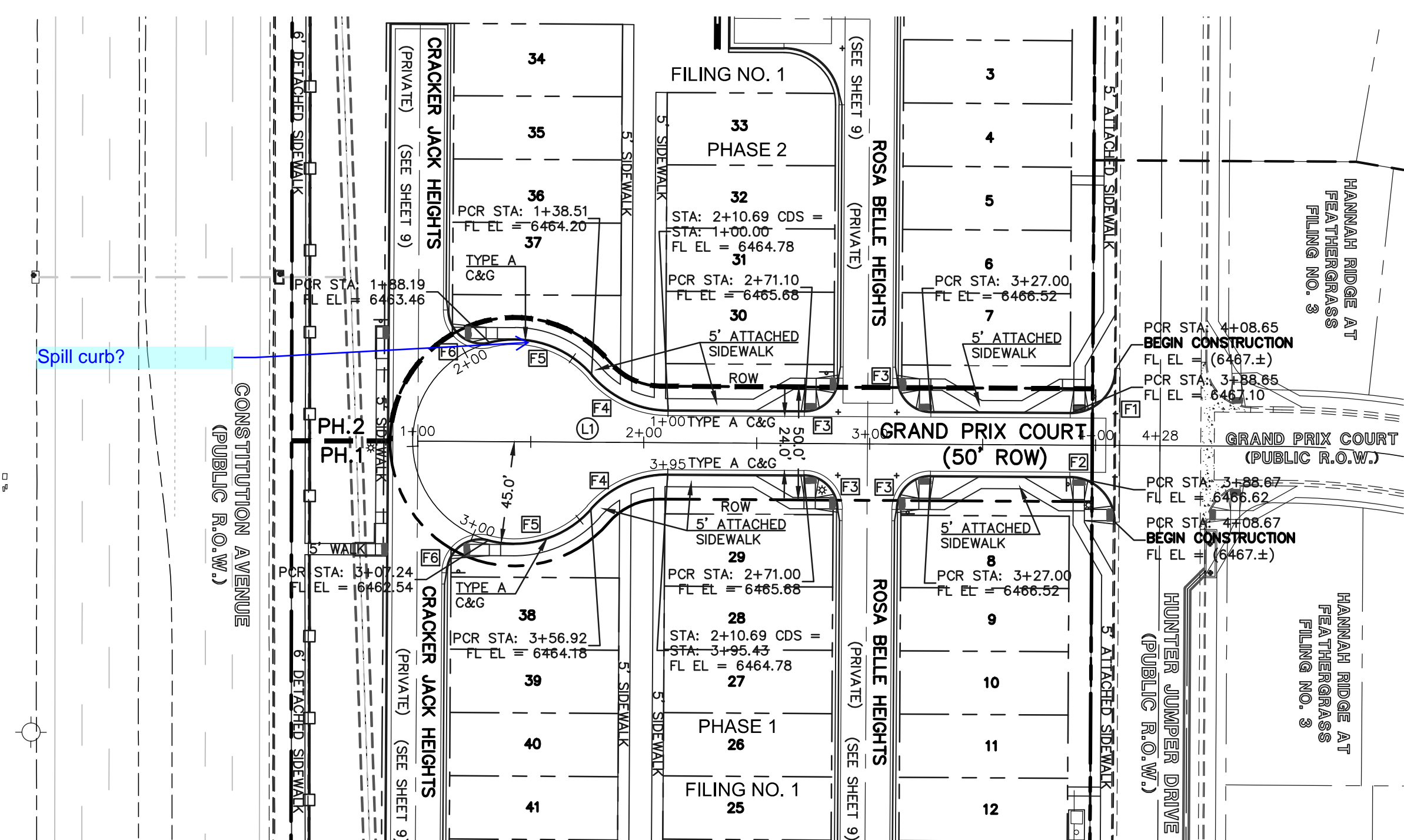
NO.	REVISION	DATE

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

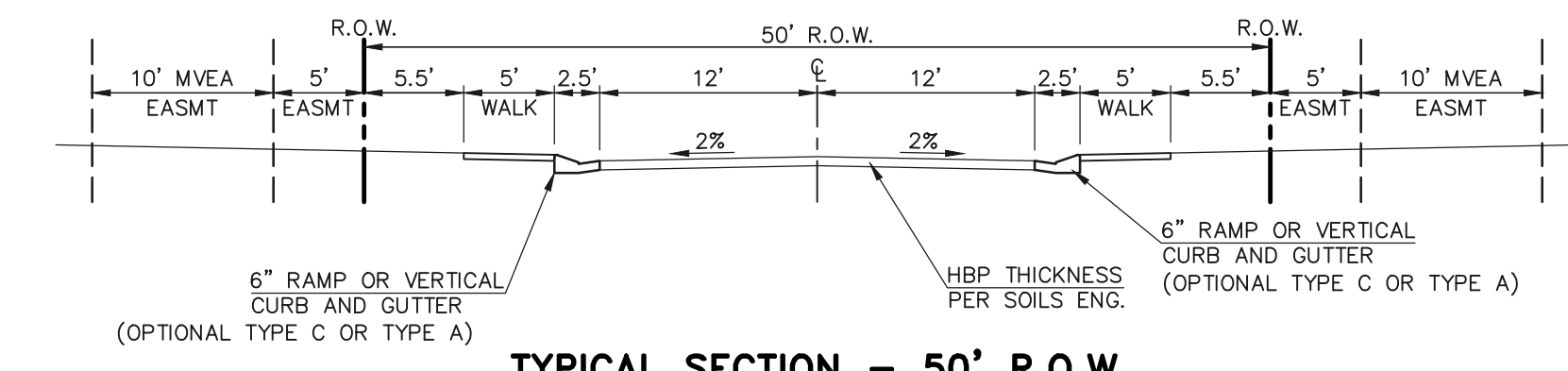
KYLE R. CAMPBELL, COLORADO P.E. #29794

MIDTOWN COLLECTION AT HANNAH RIDGE			
FILING NO. 1			
STREET IMPROVEMENT PLANS			
JAZZY LADY COURT / HORSEMANSHIP COURT			
DESIGNED BY	JRH	SCALE	DATE
DRAWN BY	JRH	(H) 1" = 50'	SHEET 7 OF 20
CHECKED BY	JRH	(V) 1" = 5'	JOB NO. 1116.30

N:\11630\DRAWINGS\CONSTRUCTION\STREET\BB\07-111630-FIL-5-01.dwg, 12/10/2019 10:05:56 AM, 1:1



**GRAND PRIX COURT**  
(PUBLIC 50' ROW) DESIGN SPEED - 25mph URBAN LOCAL - LOW VOLUME



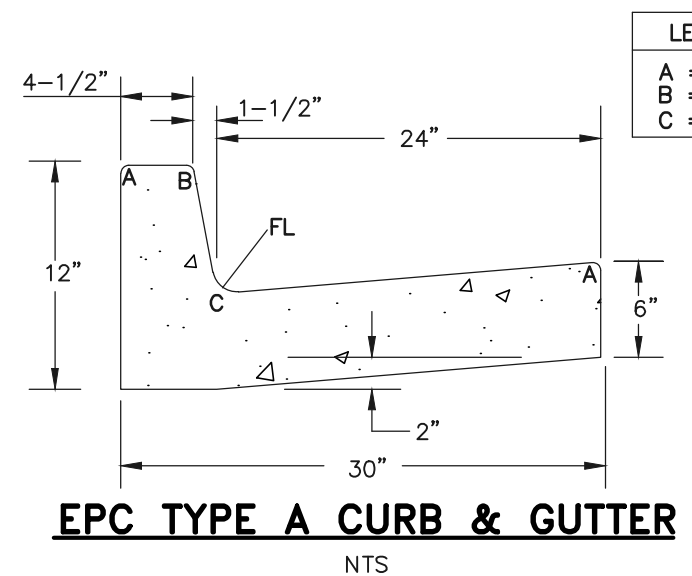
**TYPICAL SECTION - 50' R.O.W.**  
(URBAN LOCAL-LOW VOLUME)  
SCALE: 1" = 10'  
-GRAND PRIX COURT CUL-DE-SAC

**CENTERLINE LINE TABLE**

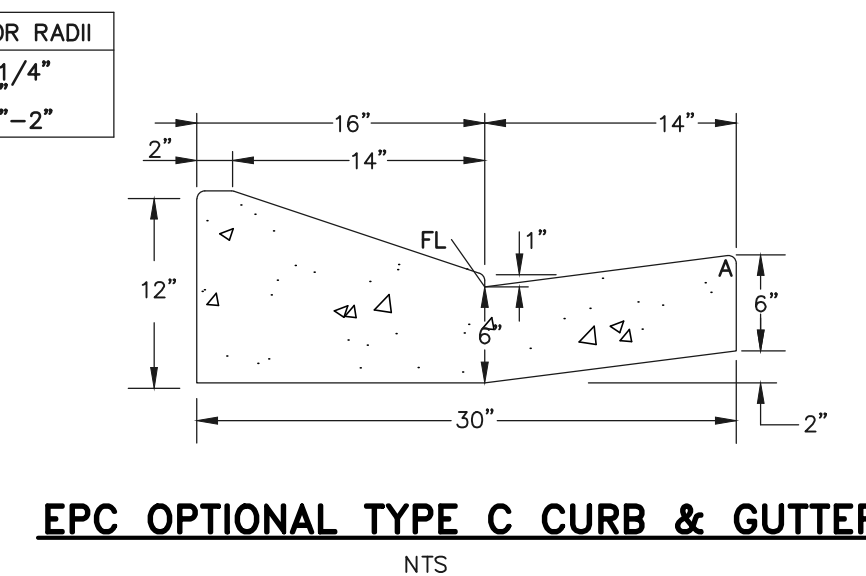
LINE	BEARING	DISTANCE
L1	N00°20'42"E	255.77'

**FL CURB CURVE TABLE**

FL	DELTA	RADIUS	LENGTH
F1	90°07'28"	20.00'	31.46'
F2	89°52'46"	20.00'	31.37'
F3	90°00'00"	15.00'	23.56'
F4	49°02'18"	45.00'	38.51'
F5	63°14'41"	45.00'	49.67'
F6	104°12'24"	15.00'	27.28'



**EPC TYPE A CURB & GUTTER**  
N.T.S.

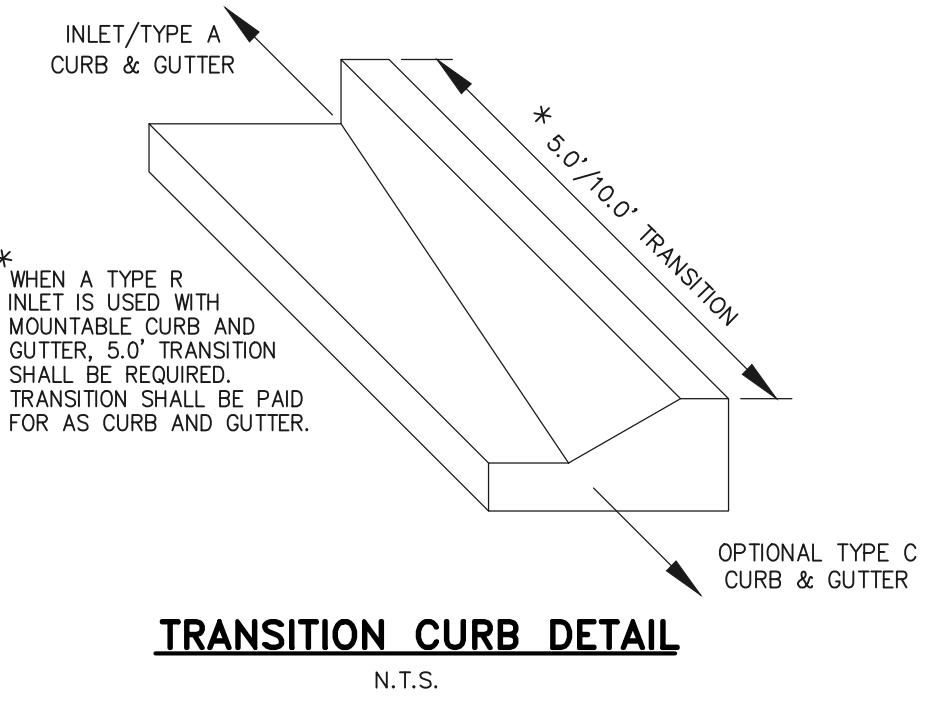


**EPC OPTIONAL TYPE C CURB & GUTTER**  
N.T.S.

**SIDEWALK NOTES:**  
1. INSTALL 5' ATTACHED SIDEWALK ONLY WHERE IDENTIFIED ON THE CONSTRUCTION PLANS.

**STREET ABBREVIATION INDEX:**

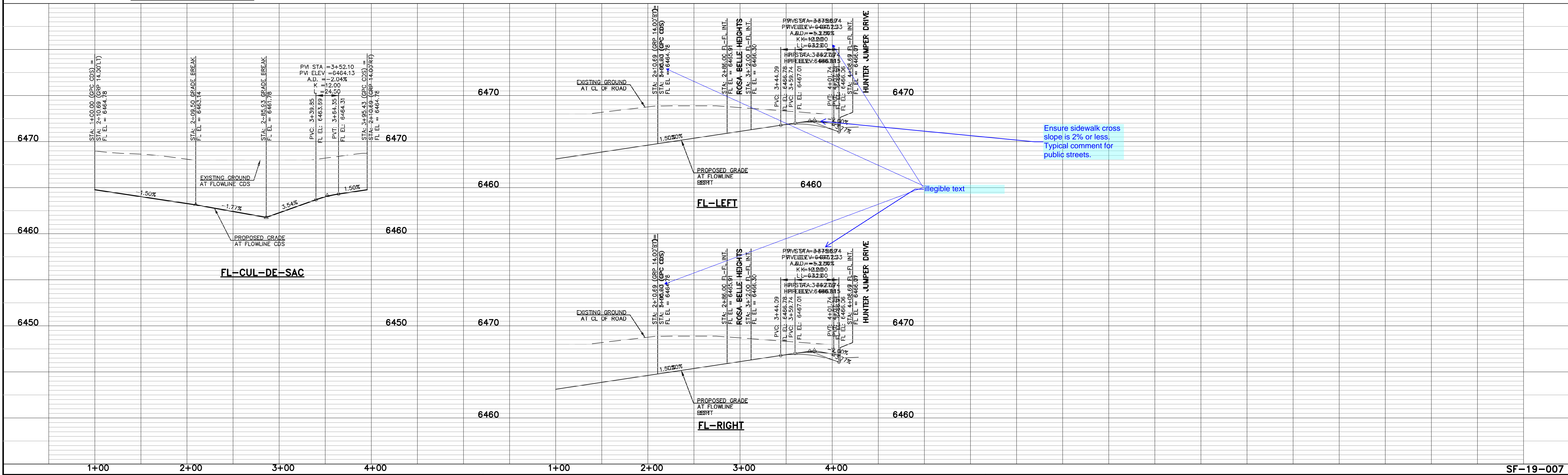
- HJD HUNTER JUMPER DRIVE
- RBH ROSA BELLE HEIGHTS
- GPC GRAND PRIX COURT
- CJH CRACKER JACK HEIGHTS



**TRANSITION CURB DETAIL**  
N.T.S.

**GRAND PRIX COURT CDS**

**GRAND PRIX COURT**



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NO.	REVISION	DATE

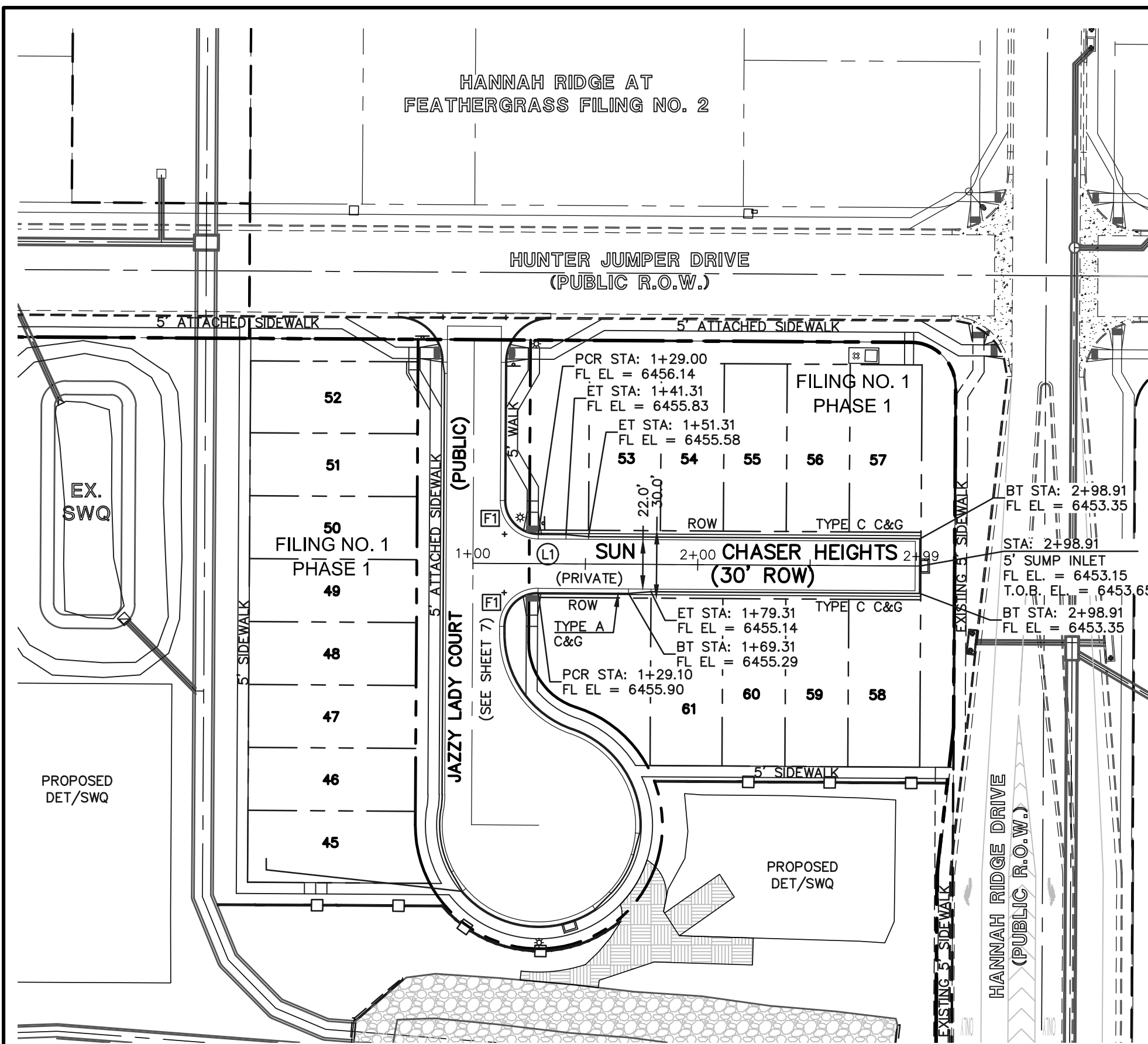
REVIEW:  
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF  
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

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

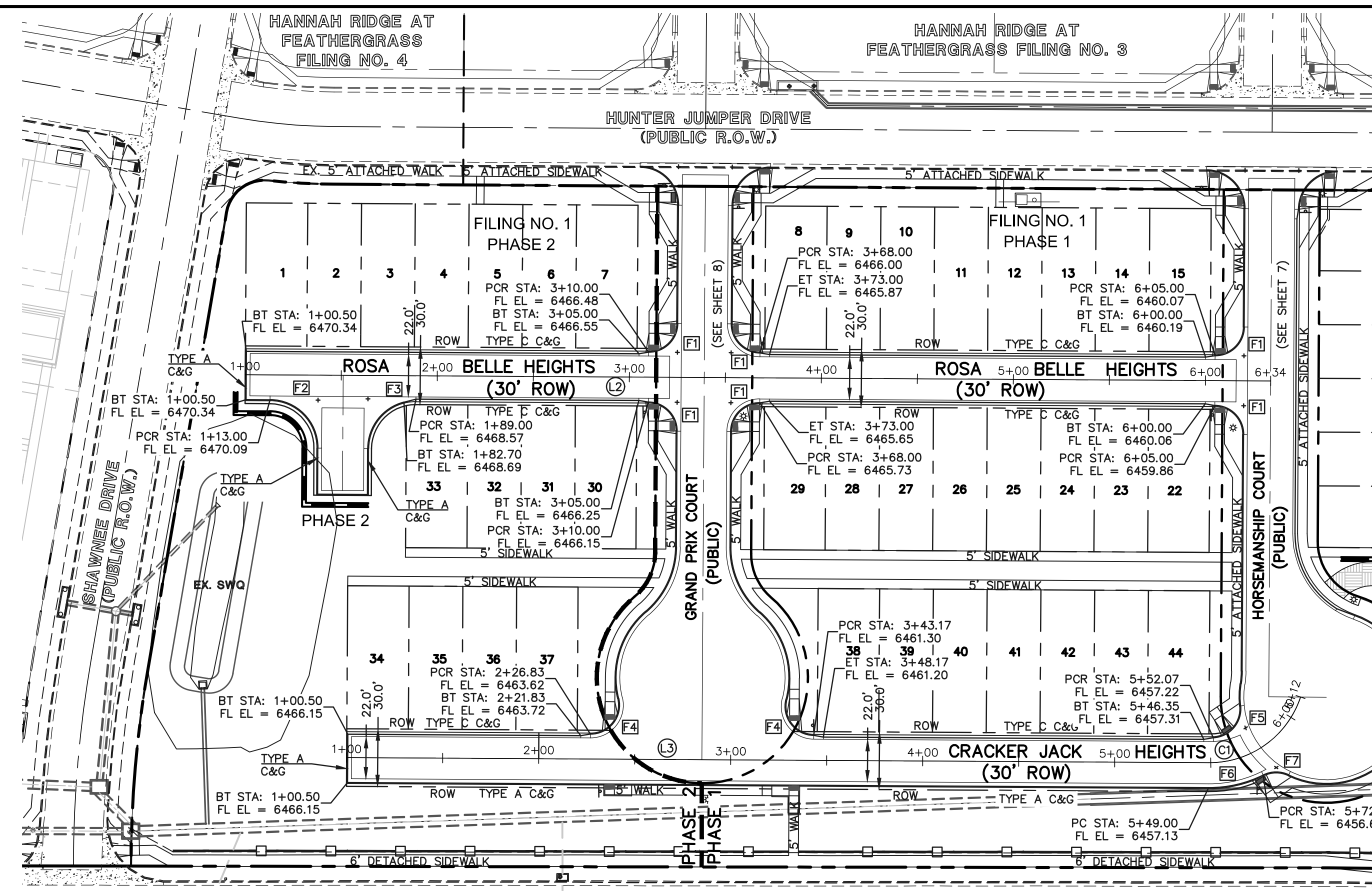
618 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (fax)

**MIDTOWN COLLECTION AT HANNAH RIDGE**  
FILING NO. 1  
STREET IMPROVEMENT PLANS  
GRAND PRIX COURT

DESIGNED BY	JRH	SCALE	DATE	03/22/19
DRAWN BY	JRH	(H) 1" = 50'	SHEET	8 OF 20
CHECKED BY		(V) 1" = 5'	JOB NO.	1116.30

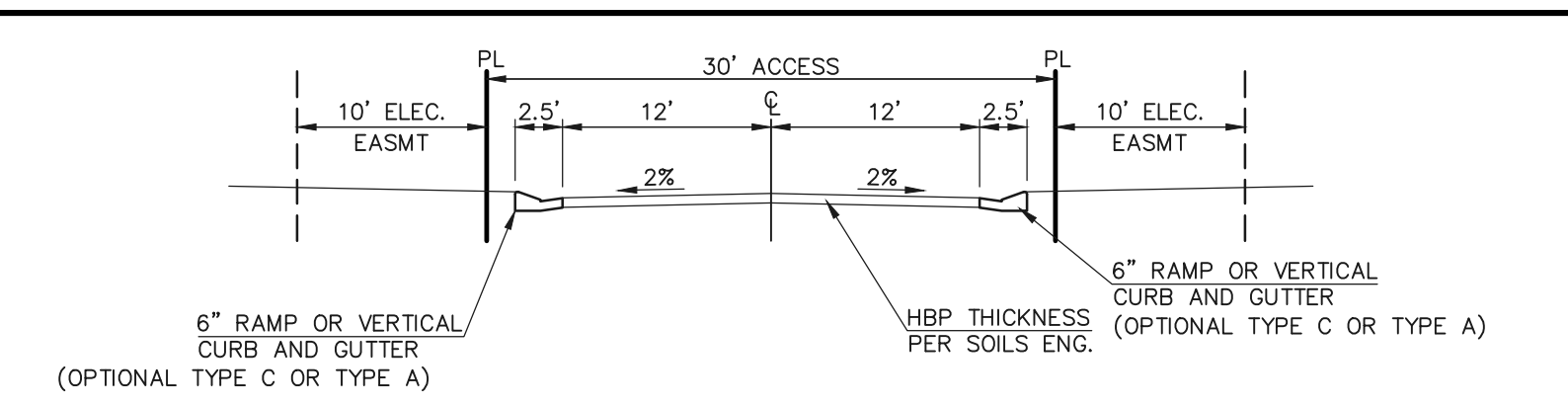


**SUN CHASER HEIGHTS**  
(PRIVATE 30' ROW) DESIGN SPEED - 20mph



**ROSA BELLE HEIGHTS**  
(PRIVATE 30' ROW) DESIGN SPEED - 20mph

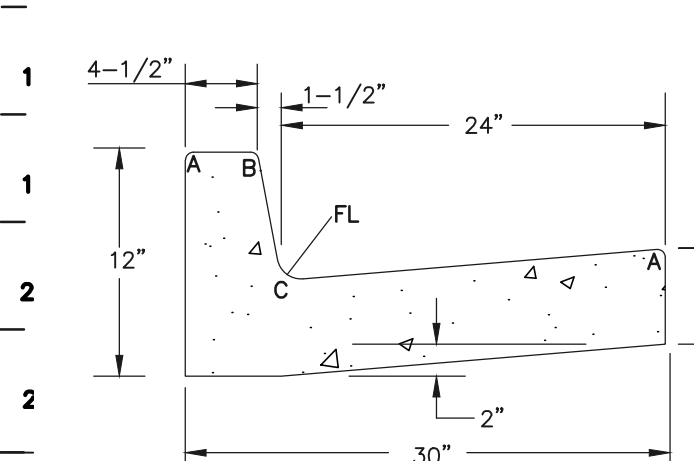
**CRACKER JACK HEIGHTS**  
(PRIVATE 30' ROW) DESIGN SPEED - 20mph



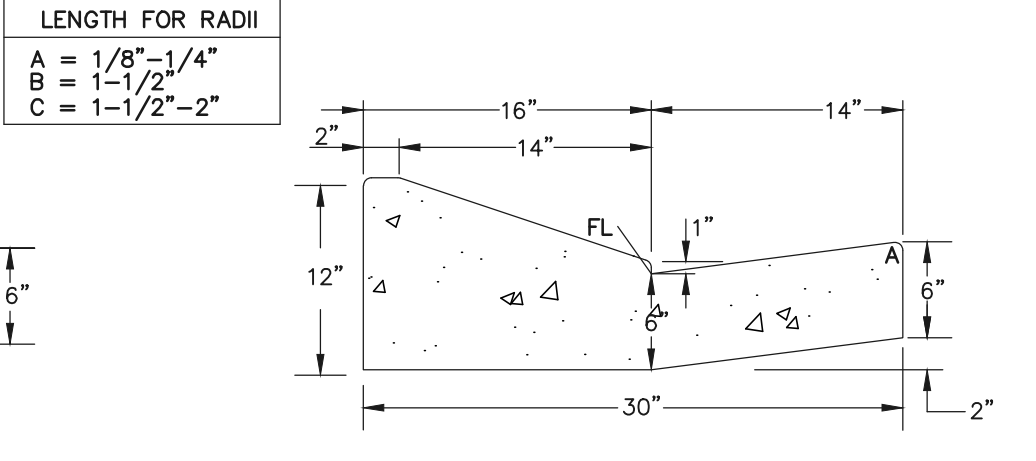
**TYPICAL SECTION - 30' PRIVATE ACCESS**  
SCALE: 1" = 10'

- SUN CHASER HEIGHTS
- ROSA BELLE HEIGHTS
- CRACKER JACK HEIGHTS

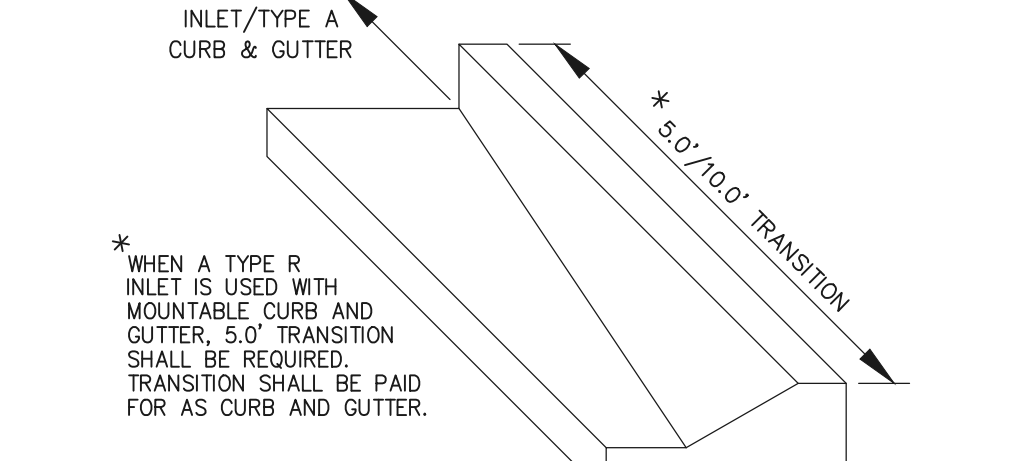
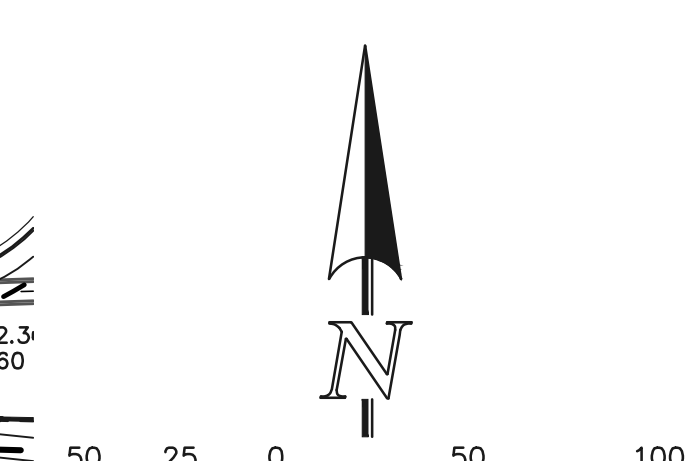
**SIDEWALK NOTES:**  
1. INSTALL 5' ATTACHED SIDEWALK ONLY WHERE IDENTIFIED ON THE CONSTRUCTION PLANS.



**EPC TYPE A CURB & GUTTER**  
NTS

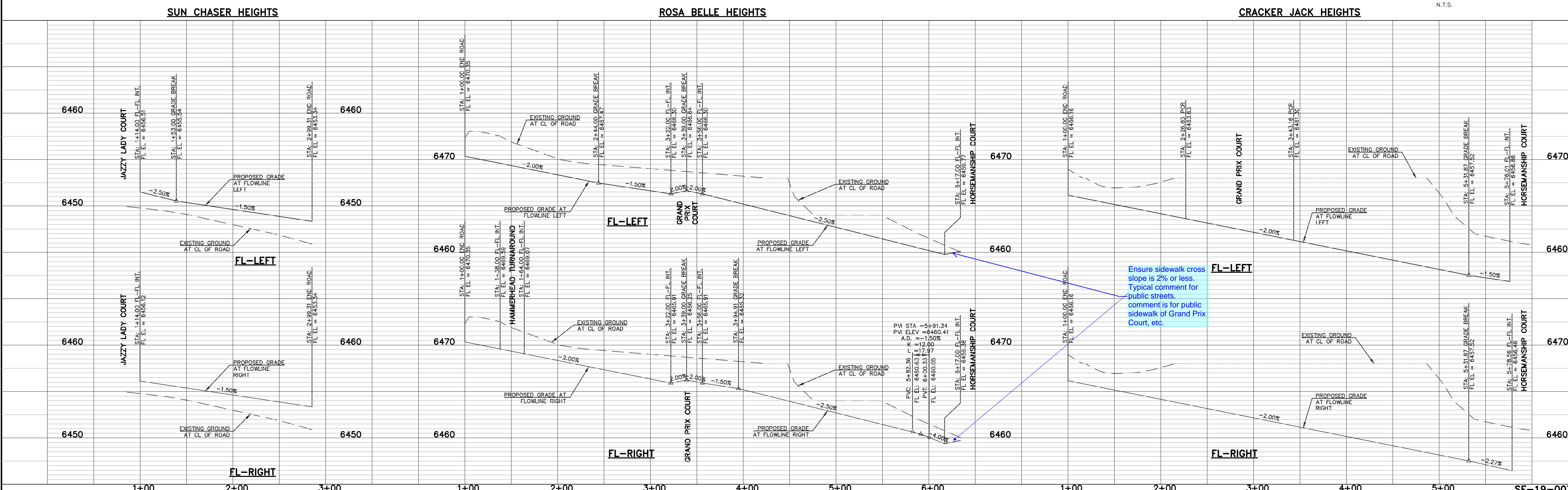


**EPC OPTIONAL TYPE C CURB & GUTTER**  
NTS



**TRANSITION CURB DETAIL**  
N.T.S.

SCALE: 1" = 50'



Ensure sidewalk cross slope is 2% or less. Typical comment for public streets. comment is for public sidewalk of Grand Prix Court, etc.

CENTERLINE LINE TABLE			FL CURB CURVE TABLE				
BEARING	DISTANCE	DELTA	RADIUS	LENGTH	DELTA	RADIUS	LENGTH
L1	S89°39'18"E	199.31'	F1	90°00'00"	15.00'	23.56'	
L2	S89°39'18"E	534.00'	F2	90°00'00"	25.00'	39.27'	
L3	S89°39'18"E	449.00'	F3	75°24'27"	25.00'	32.90'	
			F4	104°12'24"	15.00'	27.28'	
			F5	92°39'54"	15.00'	24.26'	
			F6	26°46'20"	63.00'	29.44'	
			F7	52°18'32"	15.00'	13.69'	

**STREET ABBREVIATION INDEX:**

RBH	ROSA BELLE HEIGHTS
GPC	GRAND PRIX COURT
HMC	HORSEMANSHIP COURT
SOH	SUN CHASER HEIGHTS
JLC	JAZZY LADY COURT
CJH	CRACKER JACK HEIGHTS

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NO.	REVISION	DATE

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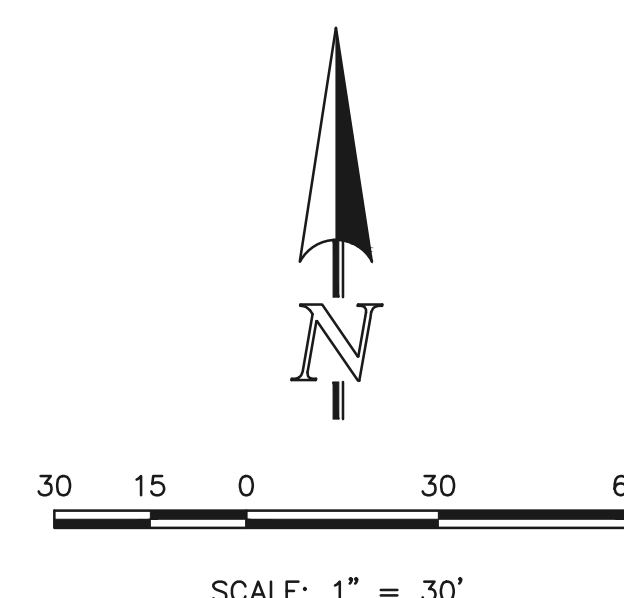
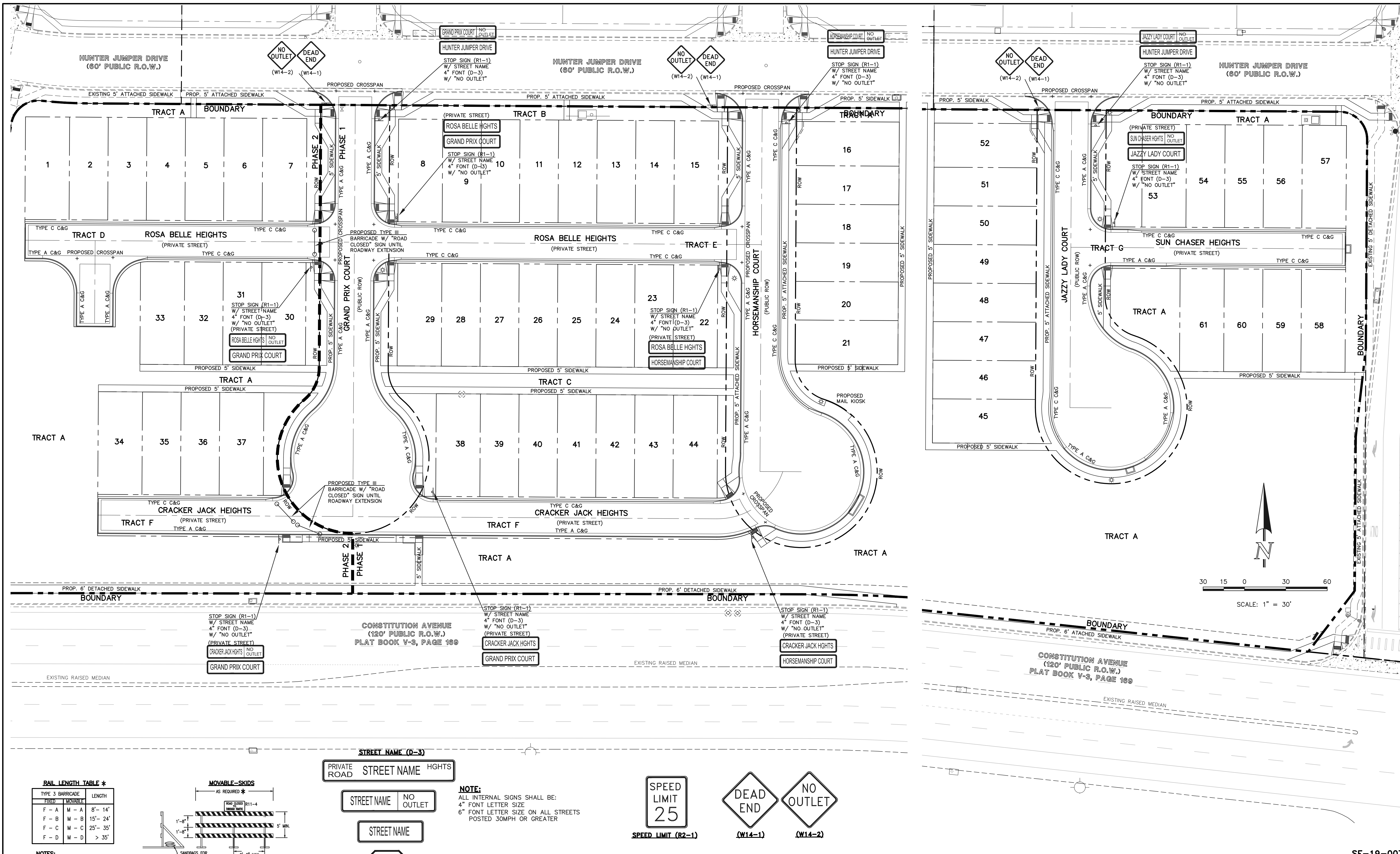
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



**MIDTOWN COLLECTION AT HANNAH RIDGE**  
FILING NO. 1  
STREET IMPROVEMENT PLANS  
SUN CHASER - ROSSA BELLE - CRACKER JACK

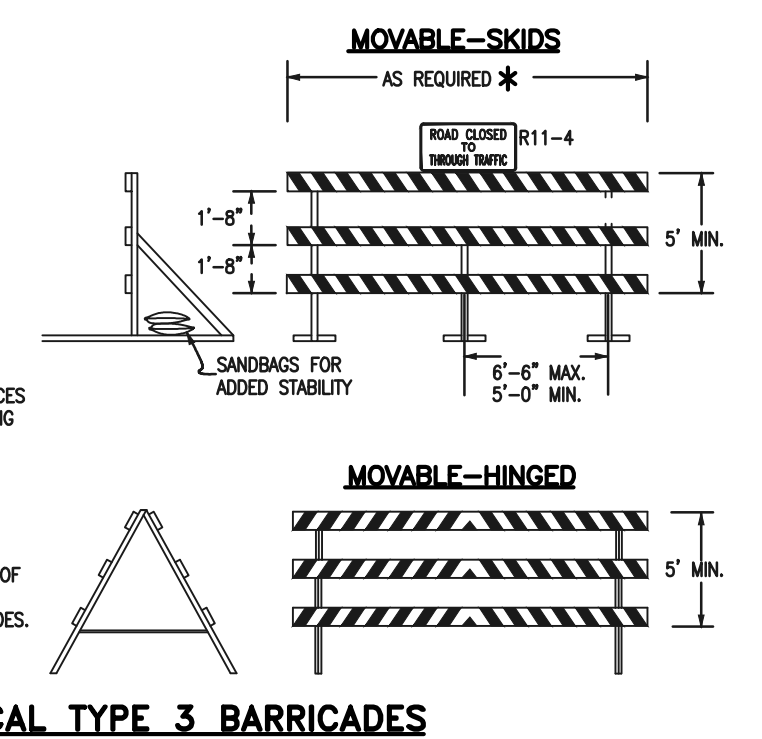
DESIGNED BY	JRH	SCALE	DATE	03/22/19
DRAWN BY	JRH	(H) 1" = 50'	SHEET	9 OF 20
CHECKED BY		(V) 1" = 5'	JOB NO.	1116.30





**RAIL LENGTH TABLE \***

TYPE 3 BARRICADE	FIXED	MOVABLE	LENGTH
F - A	M - A	8' - 14'	
F - B	M - B	15' - 24'	
F - C	M - C	25' - 35'	
F - D	M - D	> 35'	



- NOTES:**
- TYPE 3 BARRICADES HAVE 3 REFLECTORIZED RAIL FACES IF FACING TRAFFIC IN ONE DIRECTION AND 6 IF FACING TRAFFIC IN TWO DIRECTIONS.
  - THE PORTION OF THE POST ABOVE THE GROUND LINE SHALL BE PAINTED IN ACCORDANCE WITH THE APPROPRIATE GENERAL NOTE.
  - DETACHABLE EXTENSION WING RAILS FOR BYPASSING OF CONSTRUCTION EQUIPMENT ARE PERMITTED WHEN NECESSARY, ON FIXED OR MOVABLE TYPE 3 BARRICADES. THE LENGTH SHALL BE ADEQUATE TO CLOSE THE BORROW PIT AND/OR SHOULDER AS REQUIRED.

**TYPICAL TYPE 3 BARRICADES**

STREET NAME (D-3)  
PRIVATE ROAD STREET NAME HIGHTS

STREET NAME NO OUTLET

STREET NAME

STOP (R1-1) (30X30)

**NOTE:**  
ALL INTERNAL SIGNS SHALL BE:  
4" FONT LETTER SIZE  
6" FONT LETTER SIZE ON ALL STREETS  
POSTED 30MPH OR GREATER

SPEED LIMIT (R2-1)  
25  
SPEED LIMIT (R2-1)

DEAD END (W14-1)

NO OUTLET (W14-2)

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NO. REVISION	DATE	REVIEW:

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

**CLASSIC**  
CONSULTING ENGINEERS & SURVEYORS

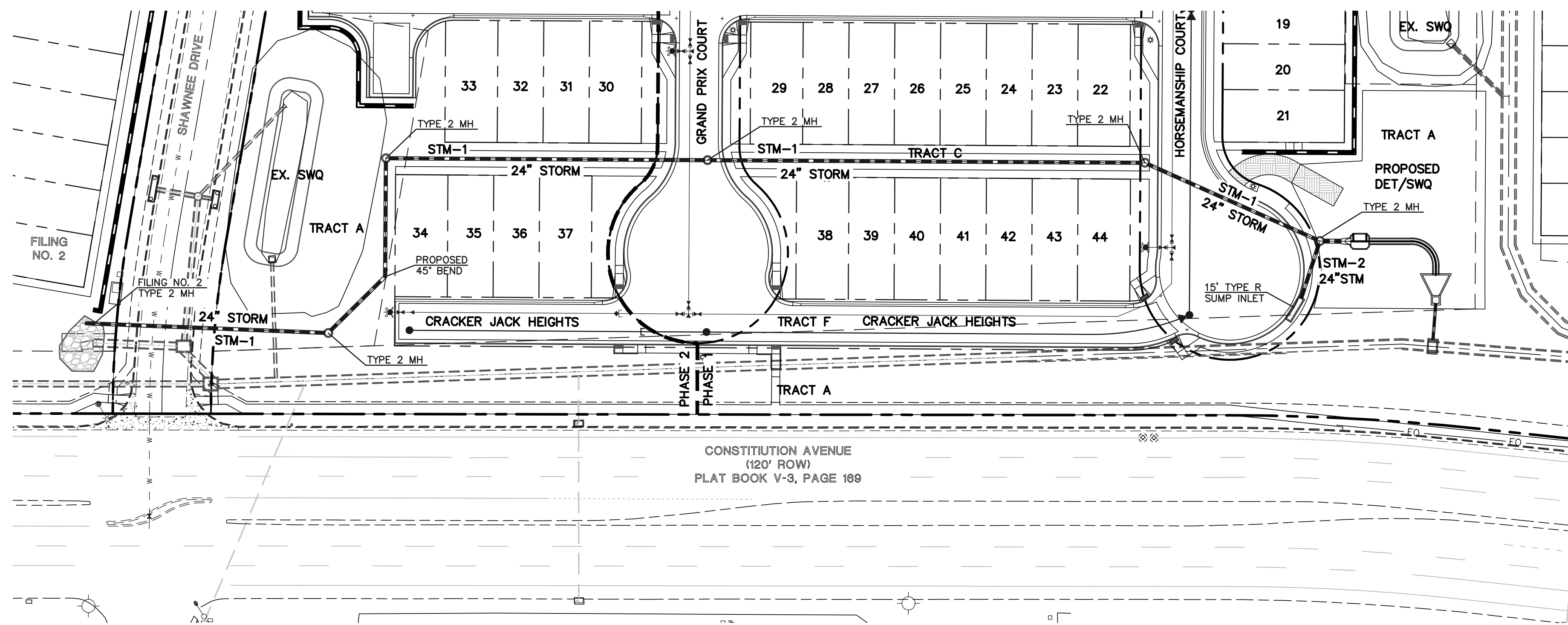
618 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719)785-0790  
(719)785-0799(Fax)

**MIDTOWN COLLECTION AT HANNAH RIDGE**  
FILING NO. 1  
STREET IMPROVEMENT SIGNAGE PLAN

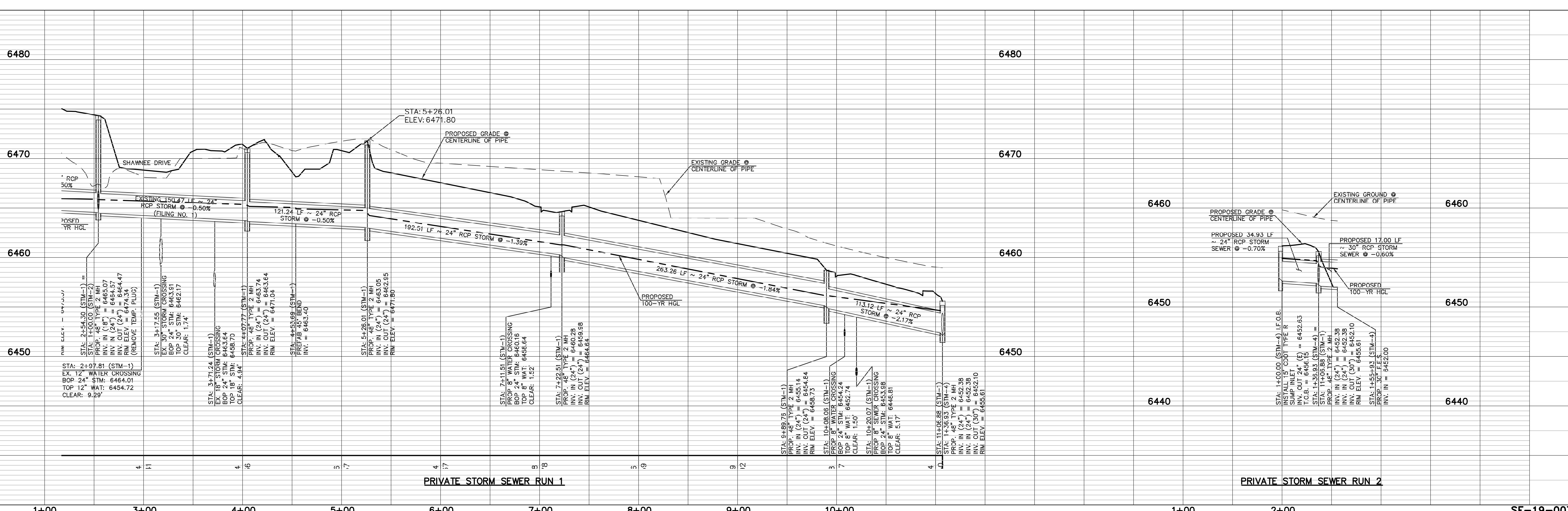
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DRAWN BY	KC	(H) 1" = 30'	SHEET	10 OF 20
CHECKED BY	(V)	1" = N/A	JOB NO.	1116.30

SF-19-007

**CLASSIC**  
ENGINEERS & SURVEYORS



PRIVATE STORM SEWER RUN 1 & RUN 2



PRIVATE STORM SEWER RUN 1

PRIVATE STORM SEWER RUN 2

**LEGEND**

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

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NO.	REVISION	DATE

REVIEW:

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

618 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

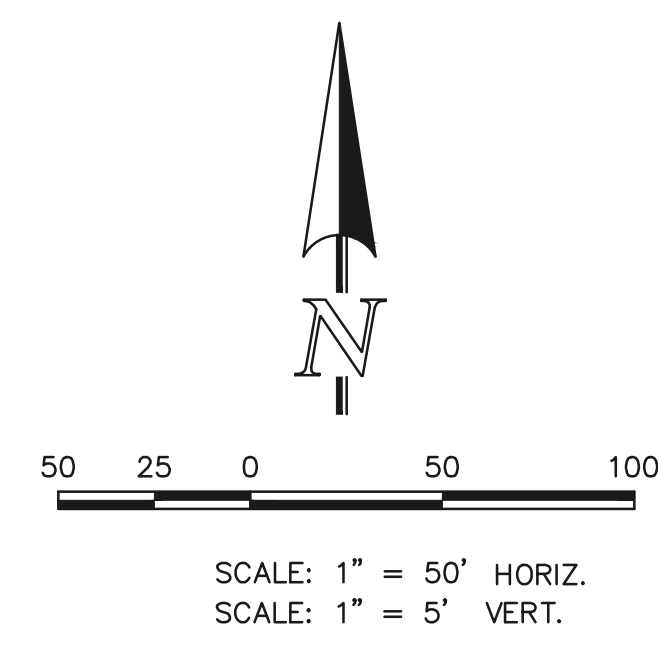
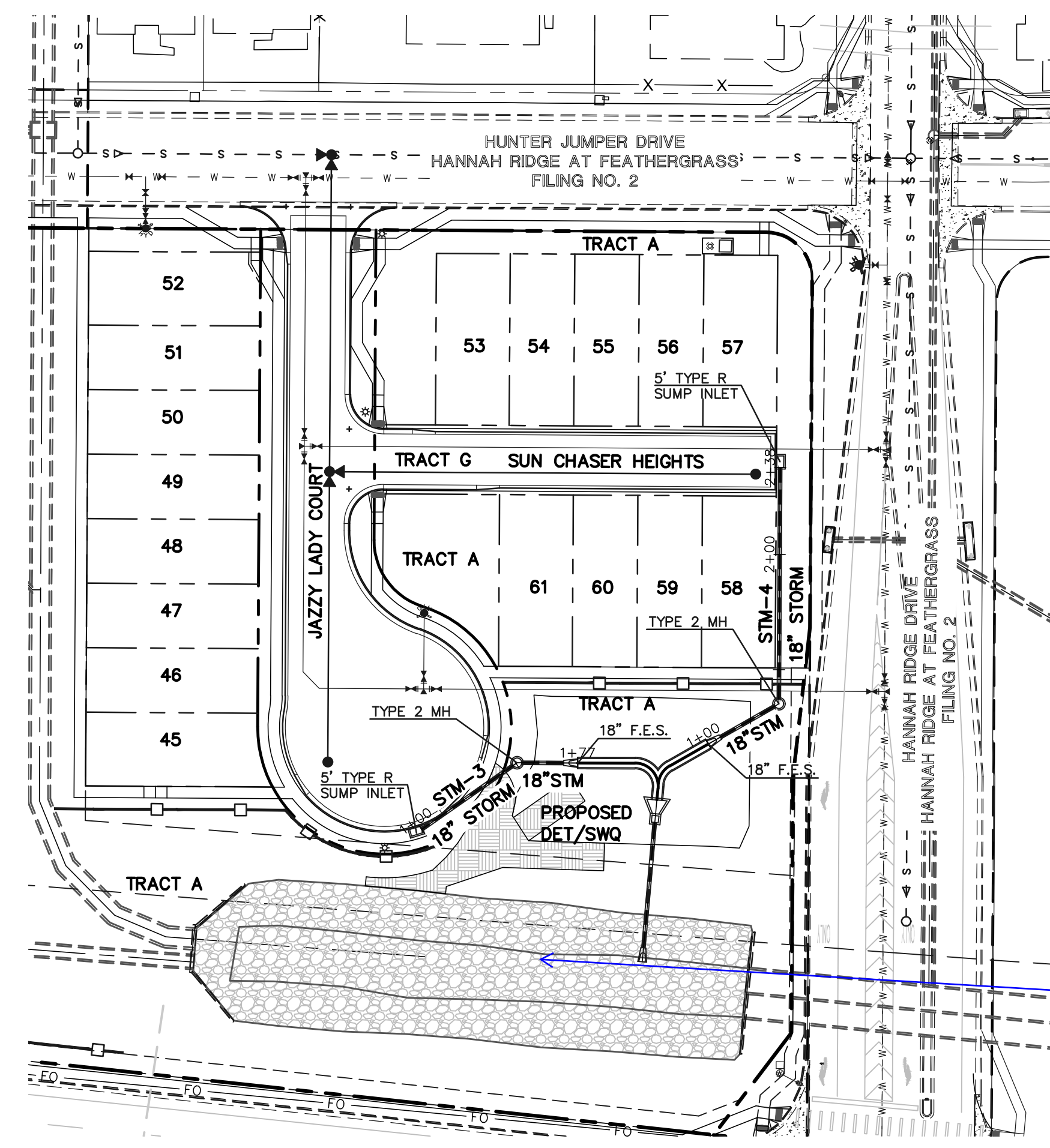
(719) 785-0780  
(719) 785-0799 (fax)

**CLASSIC**  
CONSULTING ENGINEERS & SURVEYORS

MIDTOWN COLLECTION AT HANNAH RIDGE  
FILING NO. 1  
PRIVATE STORM SEWER PLANS

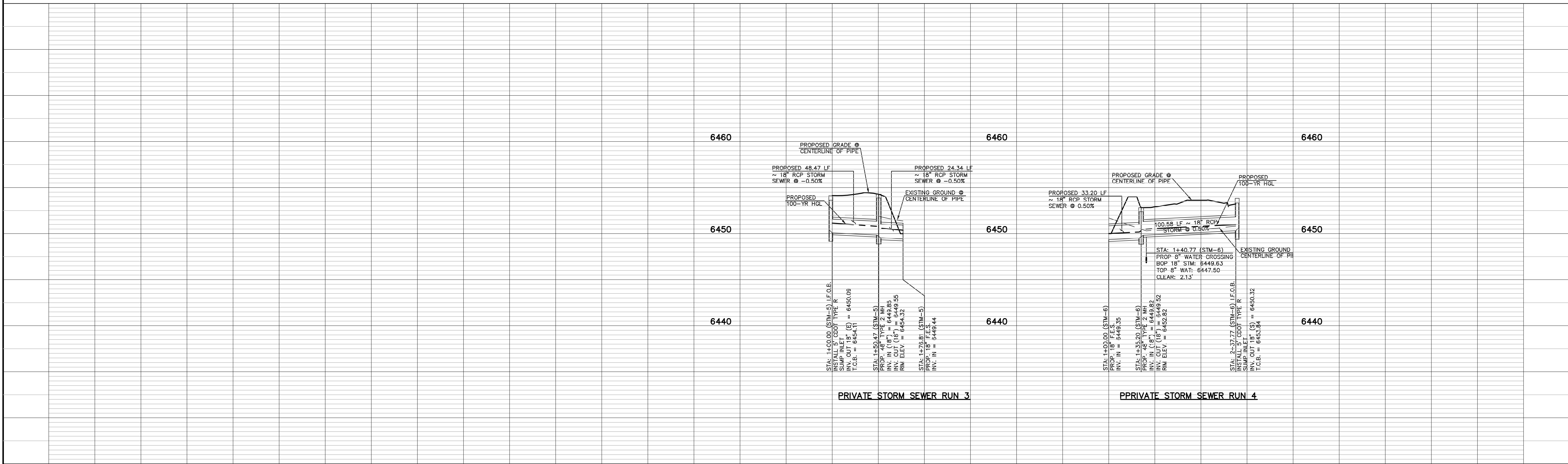
DESIGNED BY	JRH	SCALE	DATE	03/22/19
DRAWN BY	JRH	(H) 1" = 50'	SHEET	11 OF 20
CHECKED BY		(V) 1" = 5'	JOB NO.	1116.30

N:\11630\DRAWINGS\CONSTRUCTIVE\DWG\STORM\SBV11-11630-FEL-STM-01.dwg, 12/11/2019, 4:47:28 PM, 1:1



Include a note that indicates the sediment is removed from this facility prior to final acceptance

PRIVATE STORM SEWER RUN 3 AND 4



**LEGEND**

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

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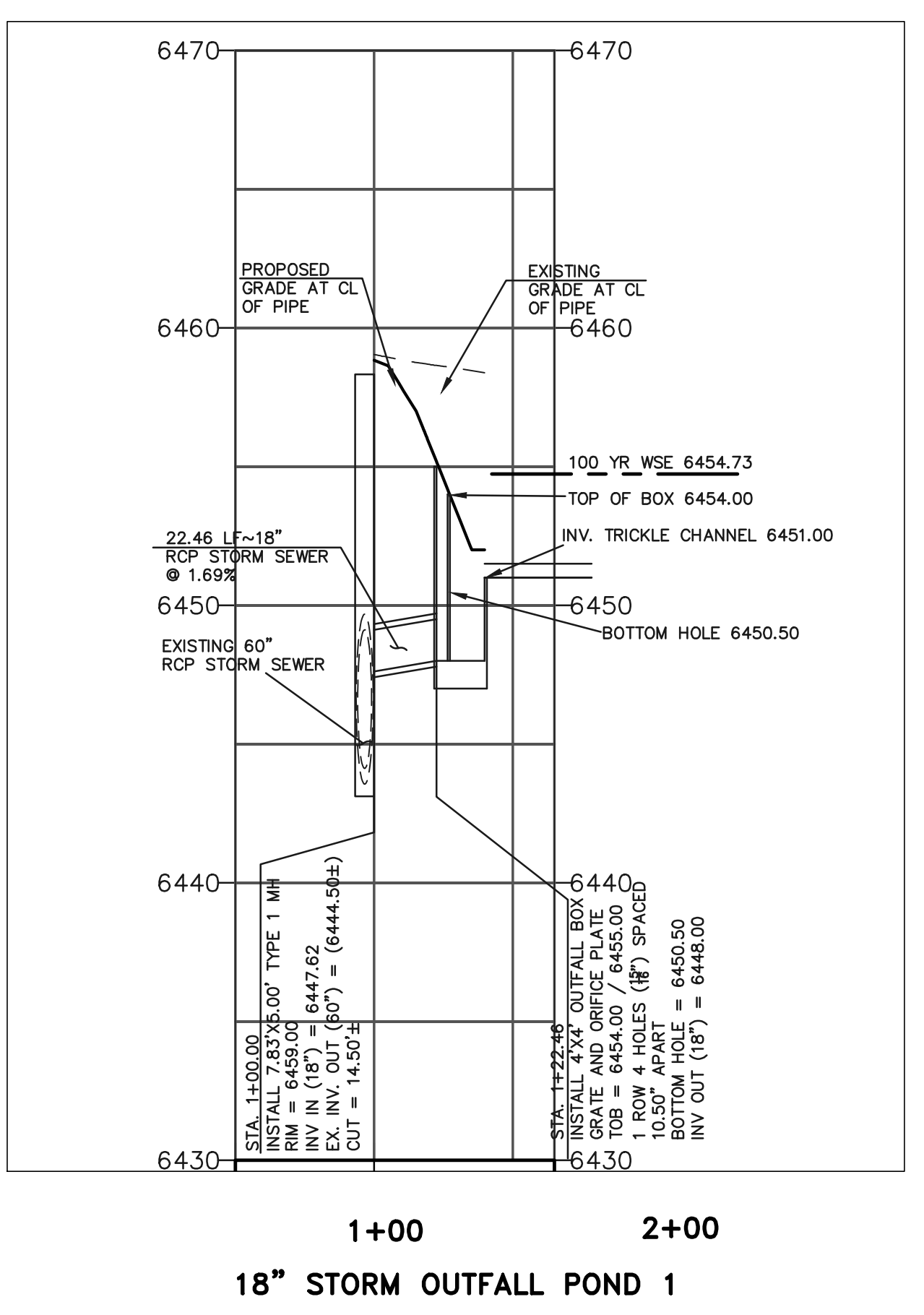
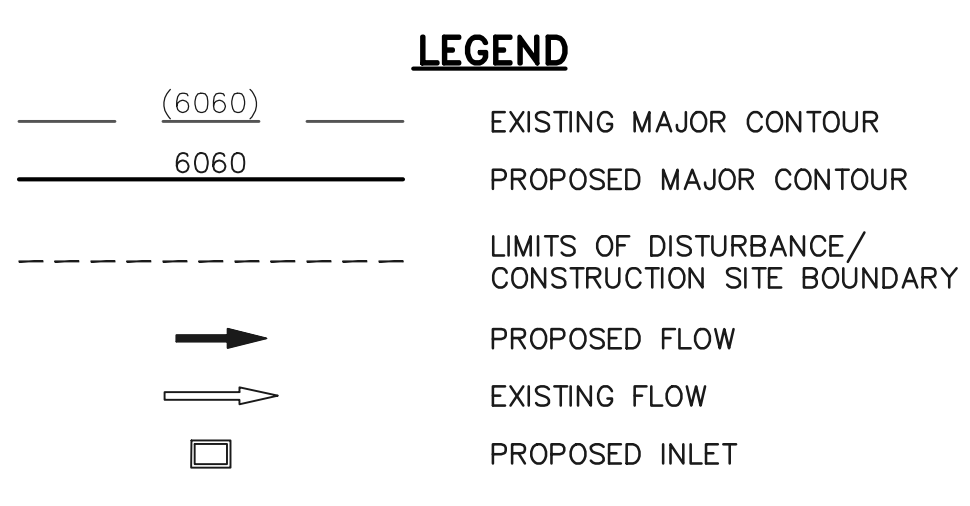
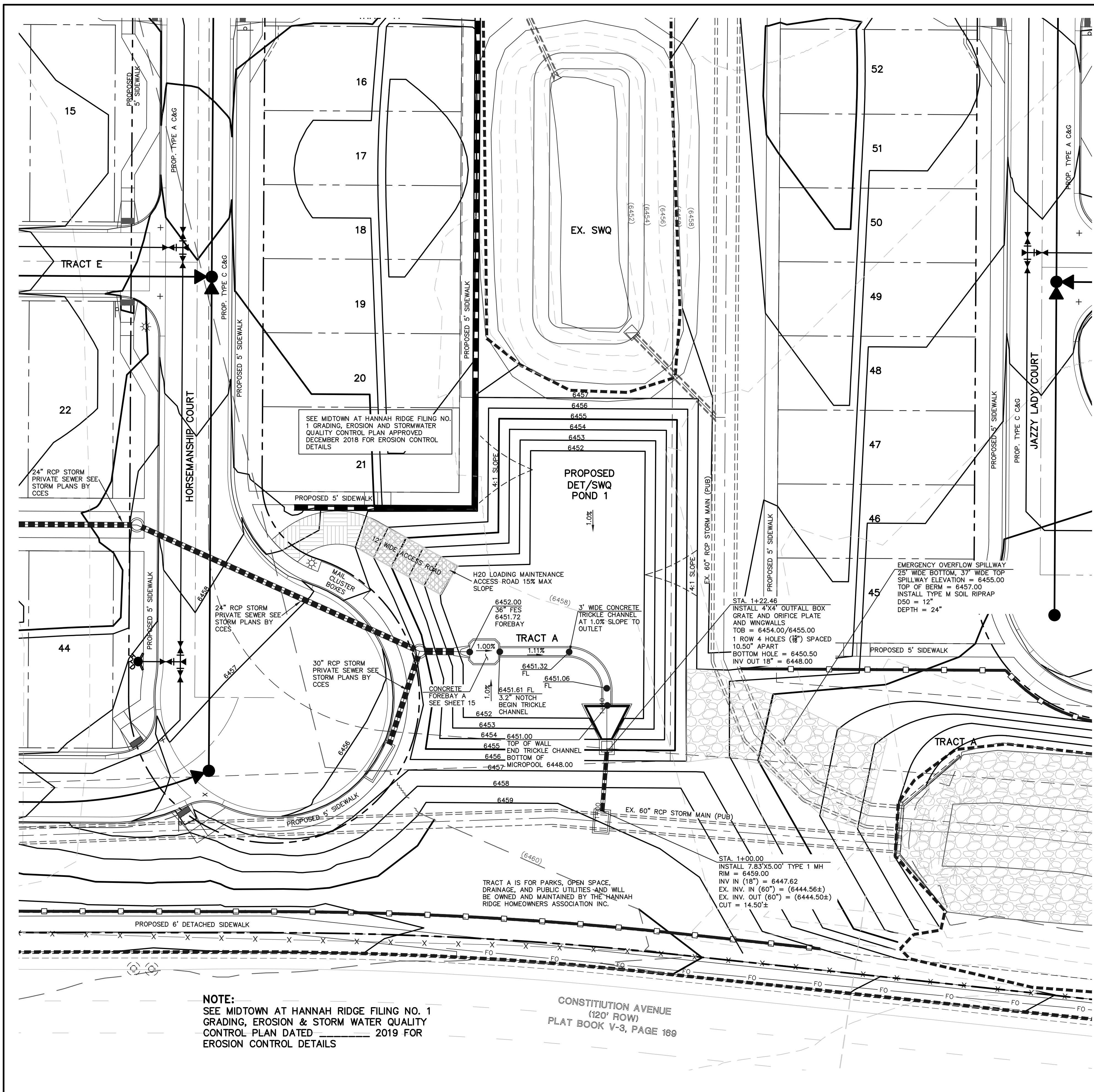
KYLE R. CAMPBELL, COLORADO P.E. #29794      DATE

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

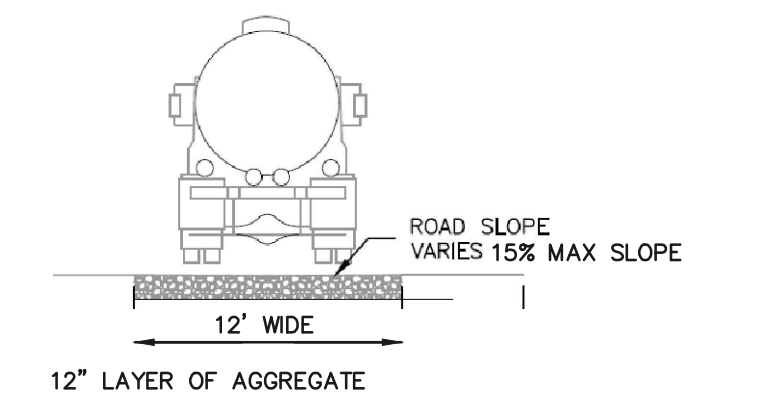
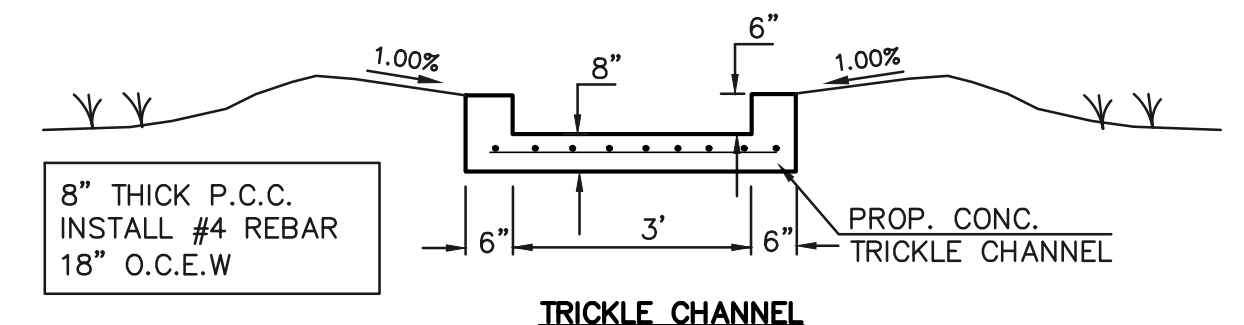
MIDTOWN COLLECTION AT HANNAH RIDGE  
FILING NO. 1  
PRIVATE STORM SEWER PLANS

DESIGNED BY	JRH	SCALE	DATE	03/22/19
DRAWN BY	JRH	(H) 1" = 50'	SHEET	12 OF 20
CHECKED BY		(V) 1" = 5'	JOB NO.	1116.30

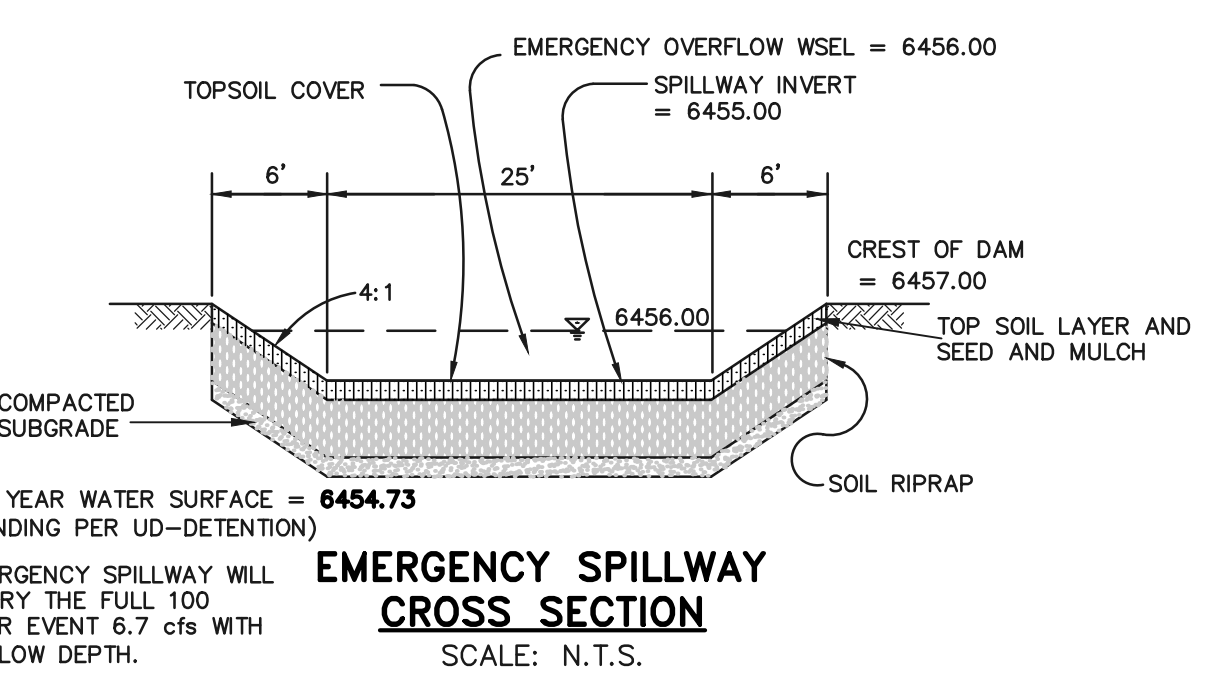
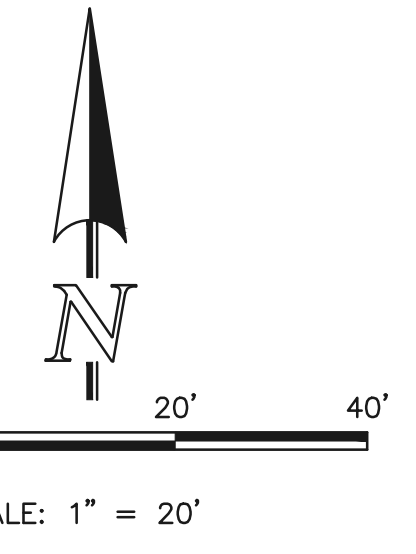
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**RESEEDING NOTE:**  
 ALL AREAS OF LAND DISTURBANCE ARE TO BE RESEED. REAPPLY SEED & OTHER EROSION CONTROL MEASURES AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO AND FROM CONSTRUCTION ACTIVITIES.



**NOTES:**  
 - POND BOTTOM TO SLOPE TOWARD TRICKLE CHANNEL AT 1%



**NOTE:**  
 SEE MIDTOWN AT HANNAH RIDGE FILING NO. 1 GRADING, EROSION & STORM WATER QUALITY CONTROL PLAN DATED 2019 FOR EROSION CONTROL DETAILS

CONSTITUTION AVENUE  
 (120' ROW)  
 PLAT BOOK V-3, PAGE 189

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW		NO. REVISION	DATE
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.			

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

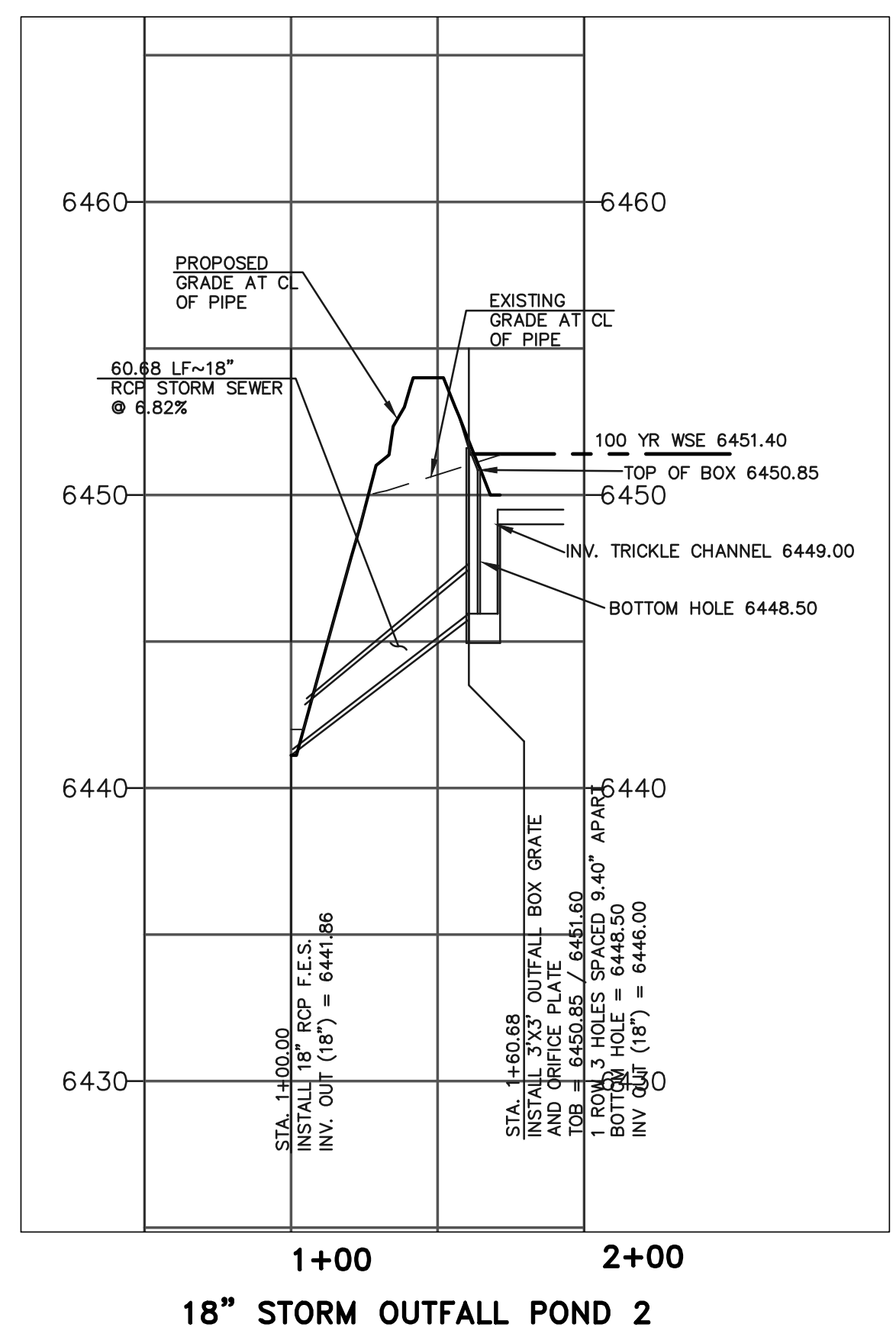
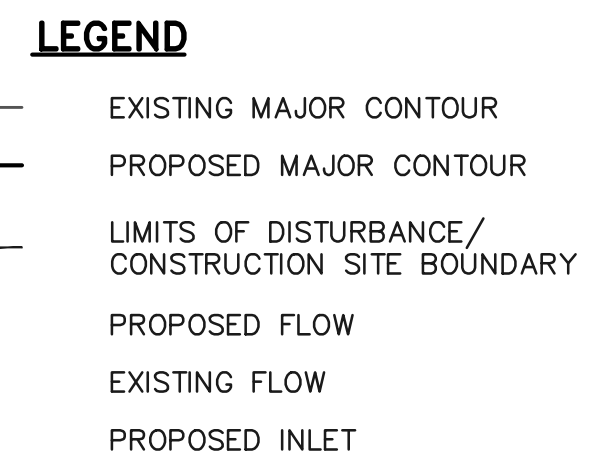
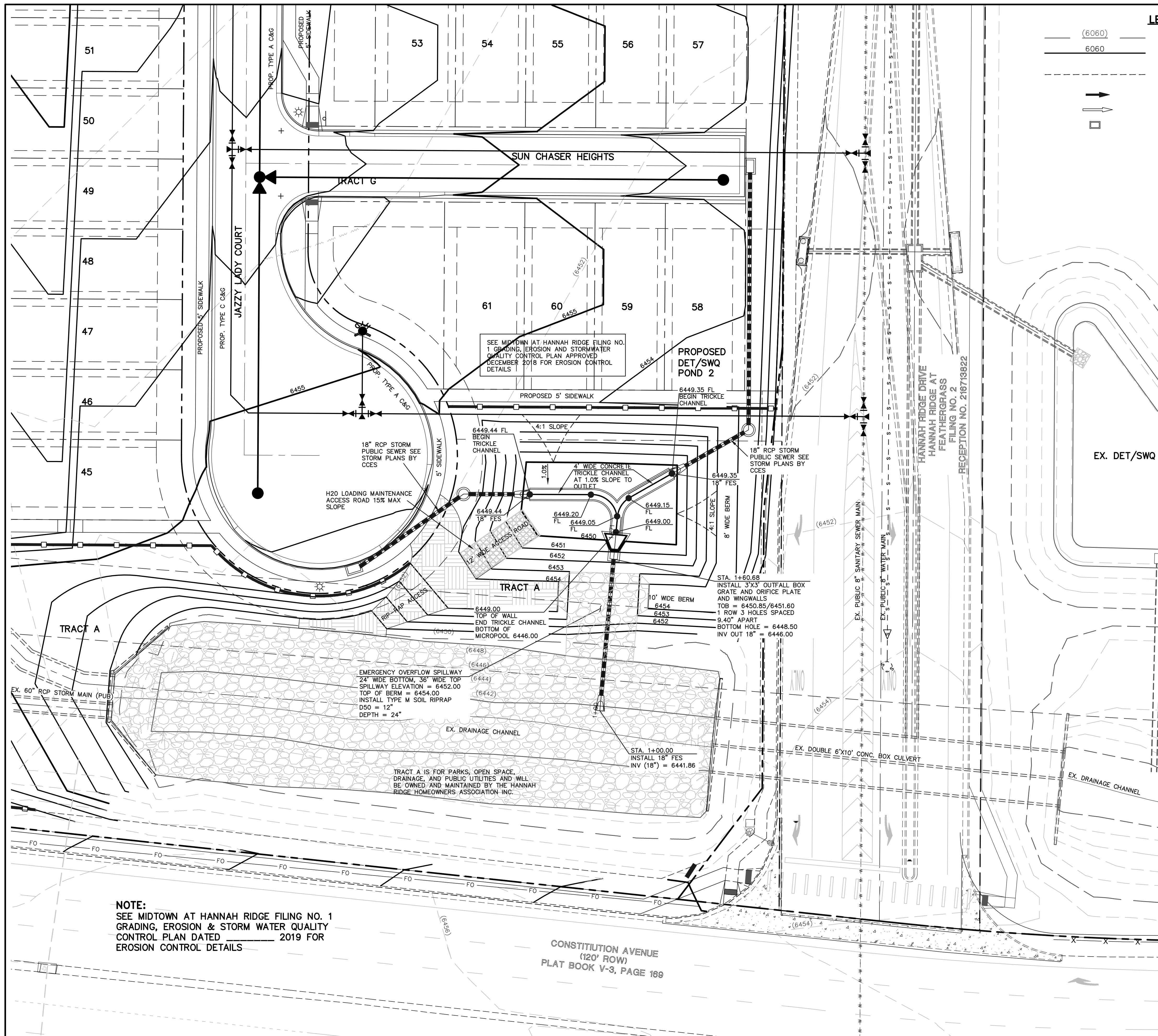
CLASSIC CONSULTING ENGINEERS & SURVEYORS  
 619 N. Cascade Avenue, Suite 200  
 Colorado Springs, Colorado 80903  
 (719)785-0790  
 (719)785-0799(Fax)

**SF-19-007**

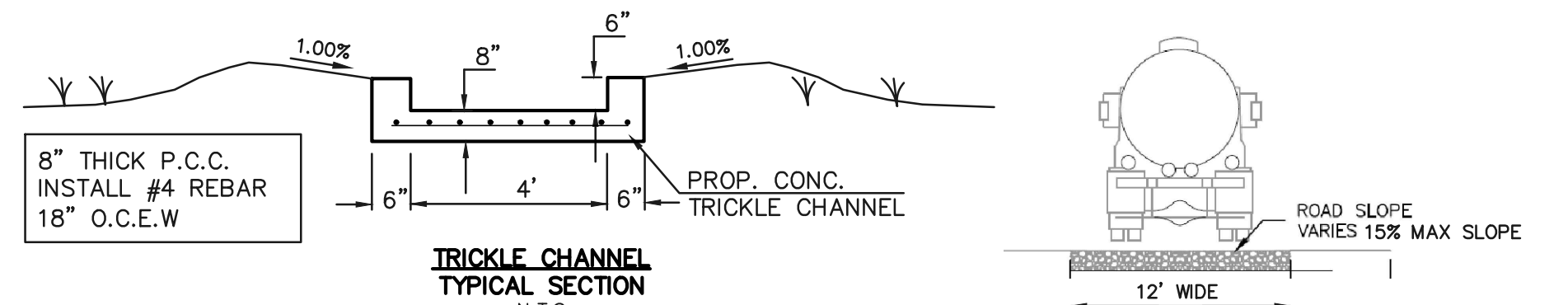
MIDTOWN COLLECTION AT HANNAH RIDGE  
 FILING NO. 1  
 PUBLIC EXTENDED DETENTION BASIN  
 GRADING AND OUTLET PROFILE POND 1

DESIGNED BY	JRH	SCALE	DATE	03/26/19
DRAWN BY	JRH	(H) 1" = 50'	SHEET	13 OF 20
CHECKED BY		(V) 1" = 5'	JOB NO.	1116.30

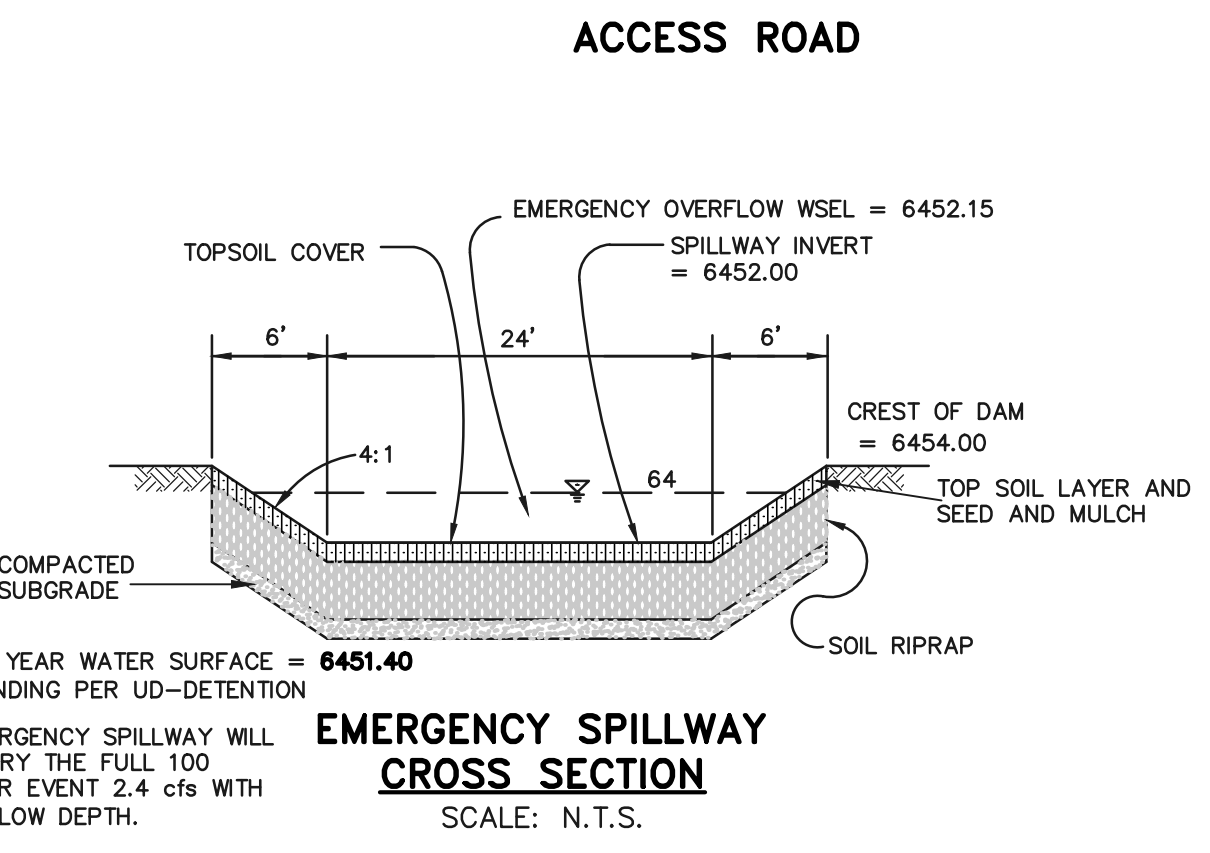
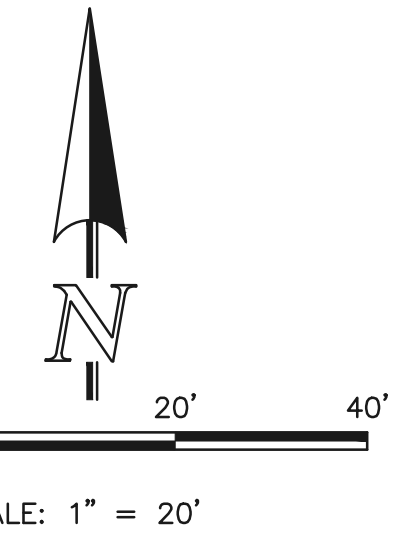
N:\11630\DRAWINGS\CONSTRUCTION\DRAW\STORM\SF-19-007-FULL-FINAL.dwg, 12/10/2019 10:10:07 AM, 1:1



**RESEEDING NOTE:**  
 ALL AREAS OF LAND DISTURBANCE ARE TO BE RESEED. REAPPLY SEED & OTHER EROSION CONTROL MEASURES AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO AND FROM CONSTRUCTION ACTIVITIES.



**NOTES:**  
 - POND BOTTOM TO SLOPE TOWARD TRICKLE CHANNEL AT 1%



**NOTE:**  
 SEE MIDTOWN AT HANNAH RIDGE FILING NO. 1 GRADING, EROSION & STORM WATER QUALITY CONTROL PLAN DATED 2019 FOR EROSION CONTROL DETAILS

<p>48 HOURS BEFORE YOU DIG,          CALL UTILITY LOCATORS  <b>811</b>          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>	NO. REVISION	DATE	REVIEW:

SF-19-007

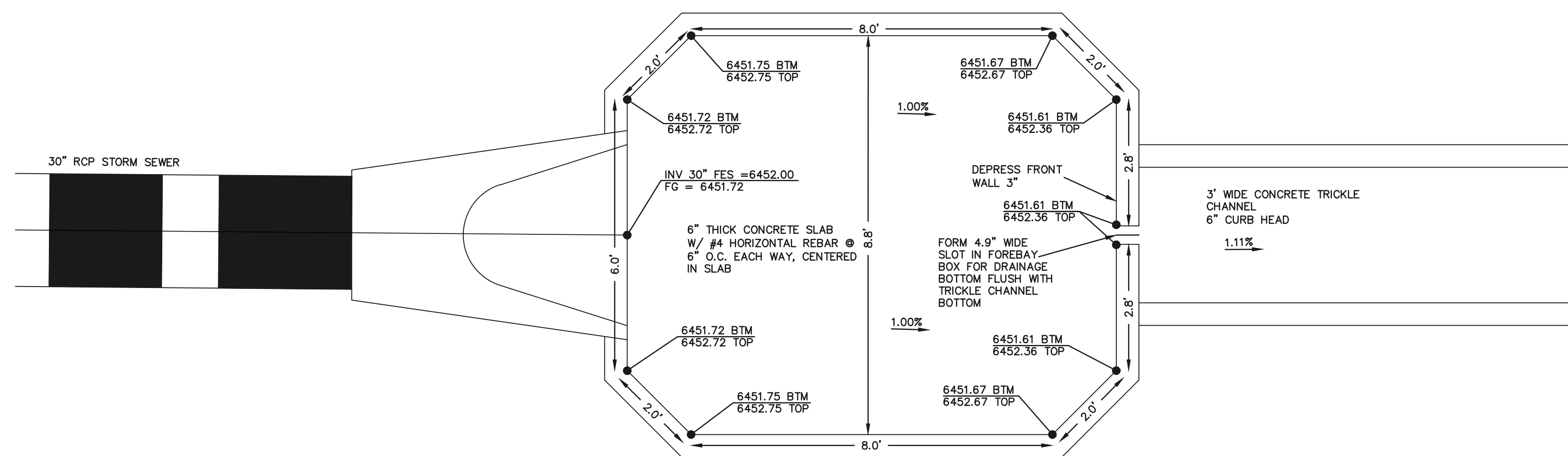
**CLASSIC**  
 CONSULTING  
 ENGINEERS & SURVEYORS

**MIDTOWN COLLECTION AT HANNAH RIDGE**  
 FILING NO. 1  
 PUBLIC EXTENDED DETENTION BASIN  
 GRADING AND OUTLET PROFILE POND 2

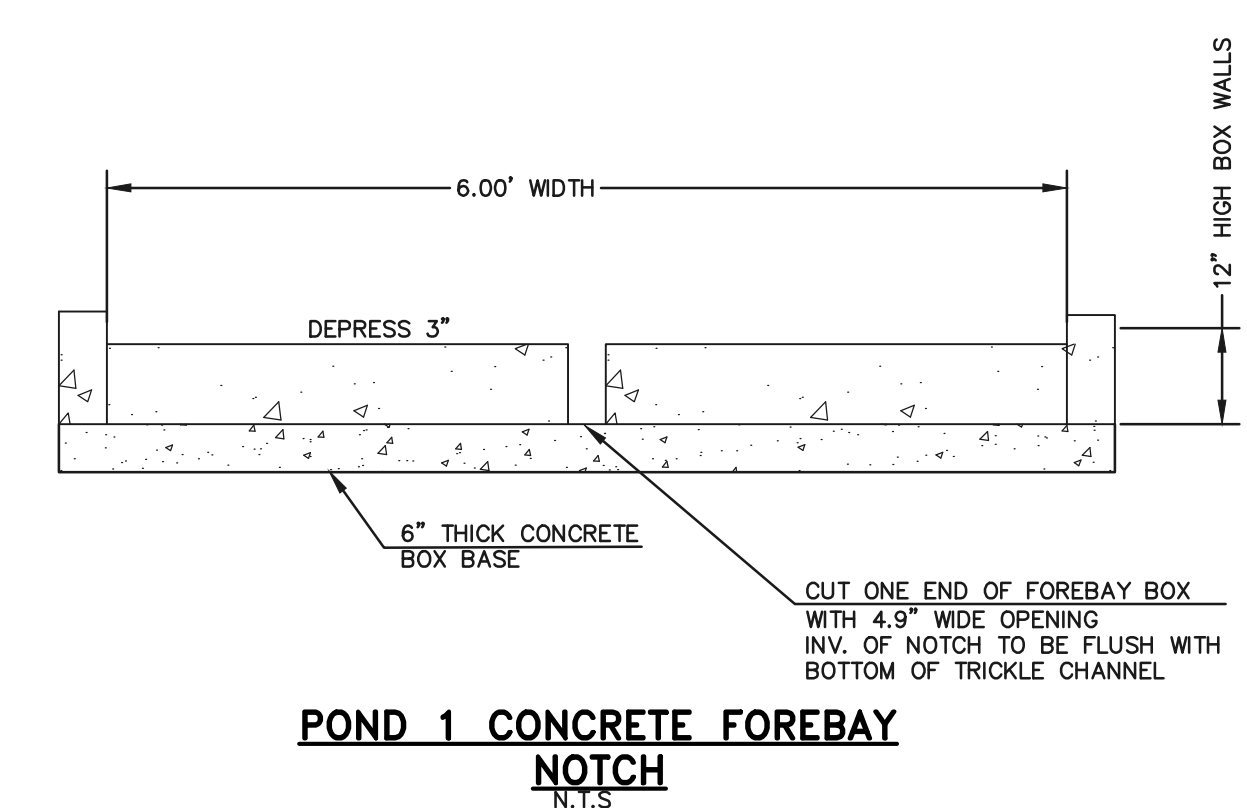
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DRAWN BY	JRH	(H) 1" = 50'	SHEET	14 OF 20
CHECKED BY		(V) 1" = 5'	JOB NO.	1116.30

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**POND 1 CONCRETE FOREBAY 'A'**  
SCALE: 1" = 2'



**POND 1 CONCRETE FOREBAY NOTCH**  
N.T.S.

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p><b>811</b></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>	NO. REVISION	DATE

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

619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

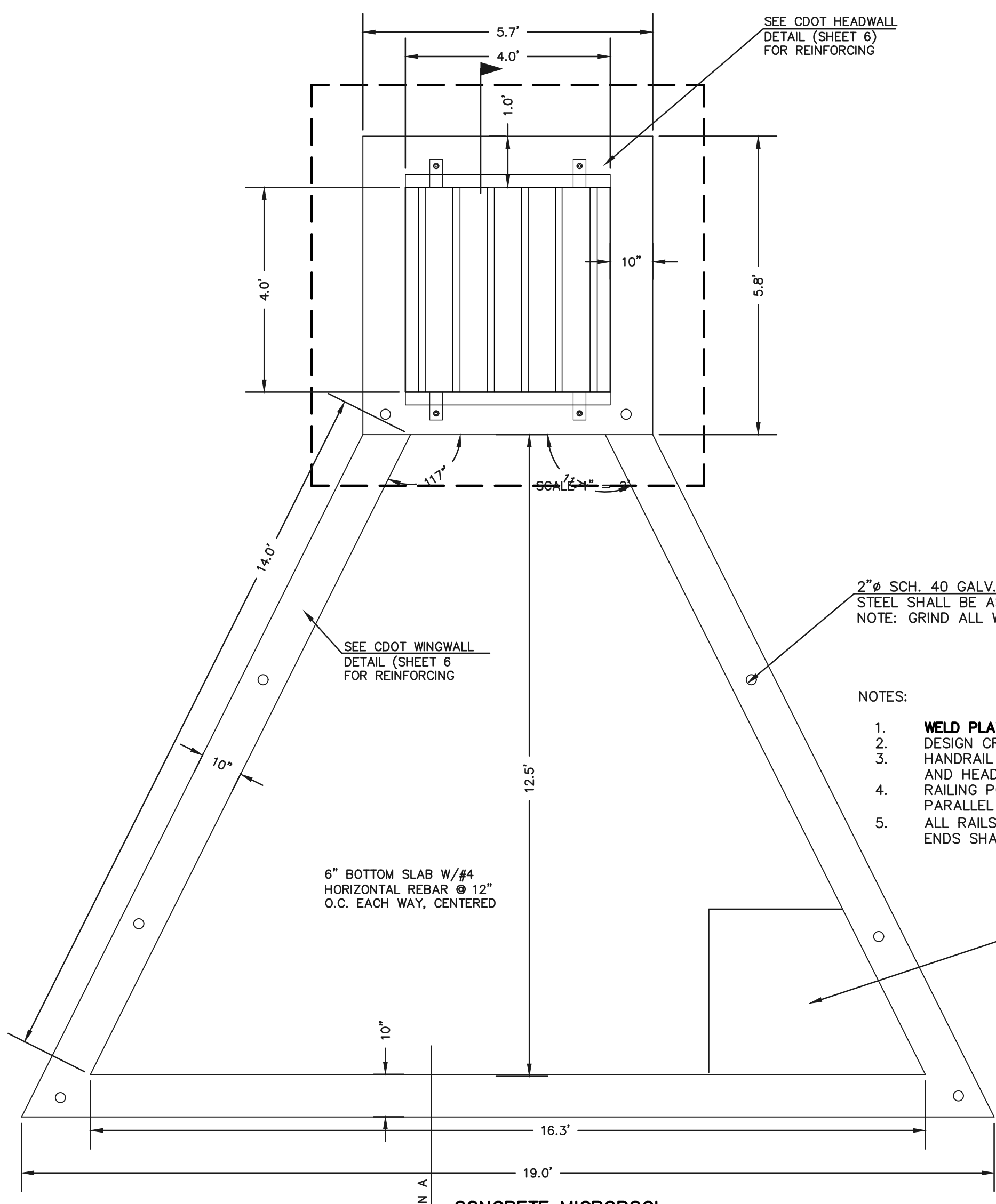
(719)785-0790  
(719)785-0799 (fax)

<p><b>MIDTOWN COLLECTIONS AT HANNAH RIDGE</b></p> <p>FILING NO. 1</p> <p>PUBLIC EXTENDED DETENTION BASIN</p> <p>FOREBAY DETAIL POND 1</p>			
DESIGNED BY	DLG	SCALE	DATE
DRAWN BY	JRH	(H) 1" = 2'	SHEET 15 OF 20
CHECKED BY	(V) 1" = N/A	JOB NO.	1116.30

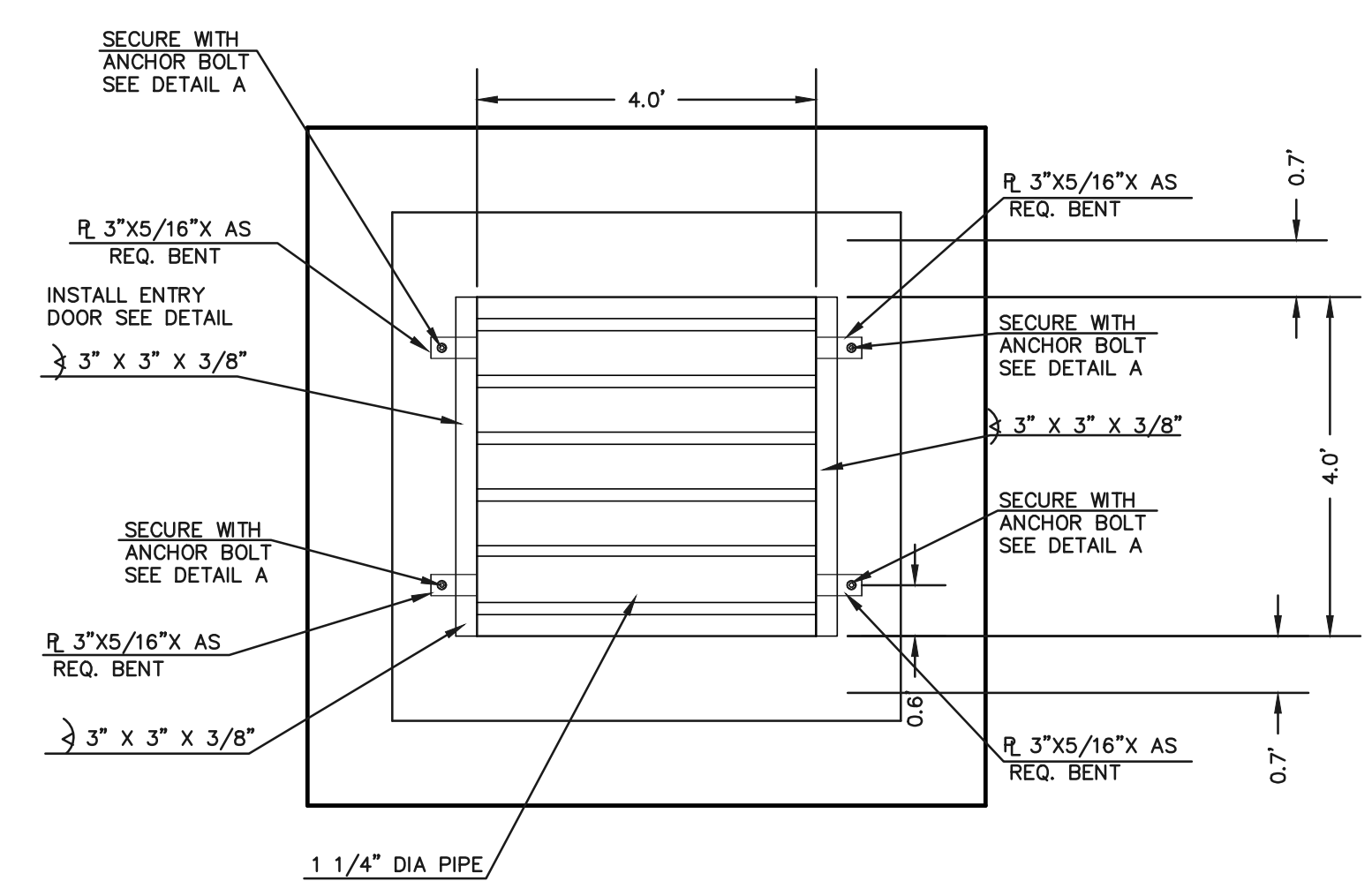
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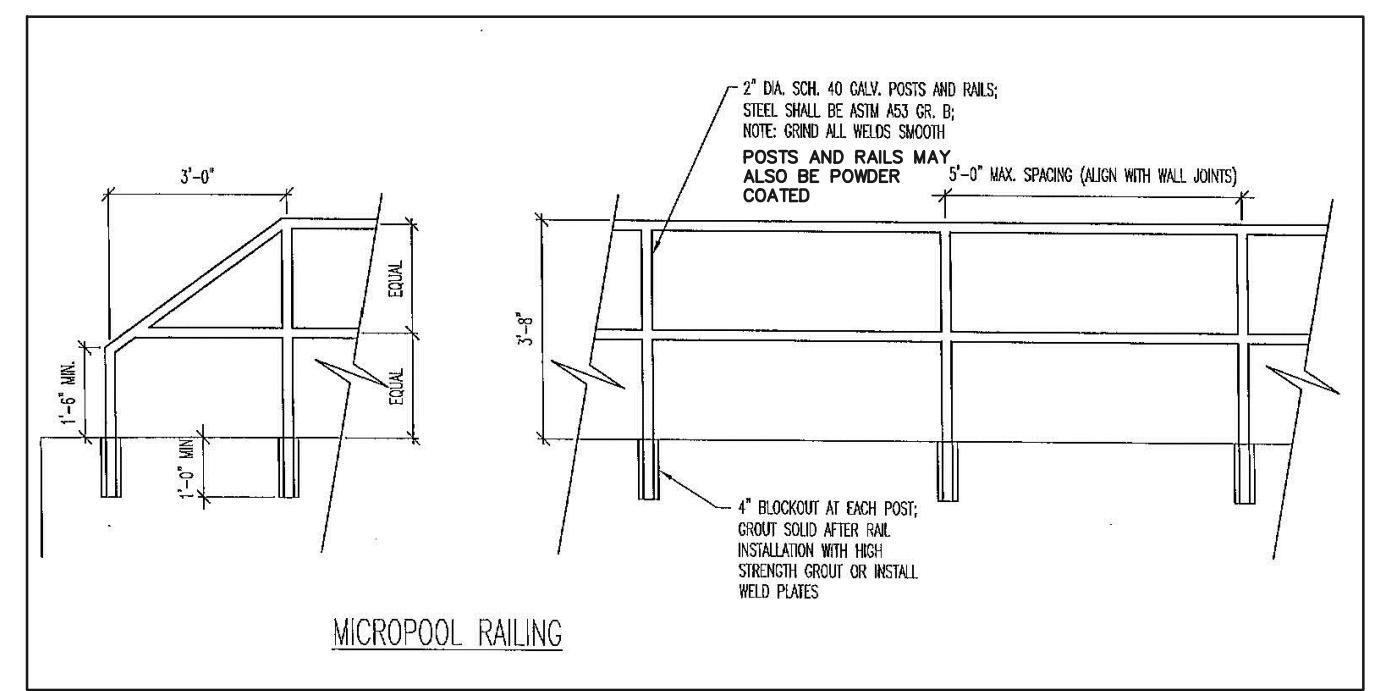
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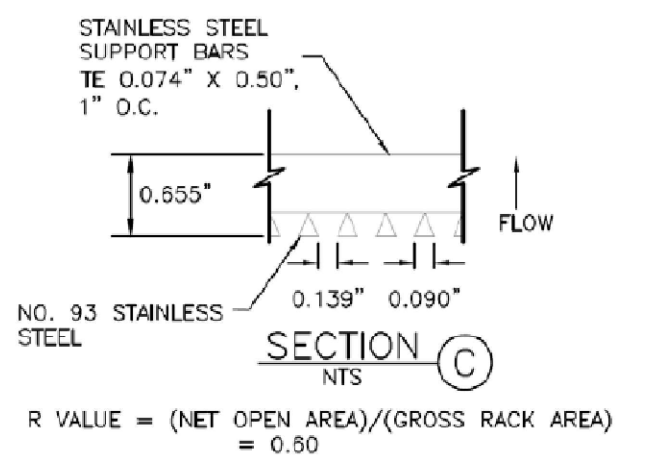
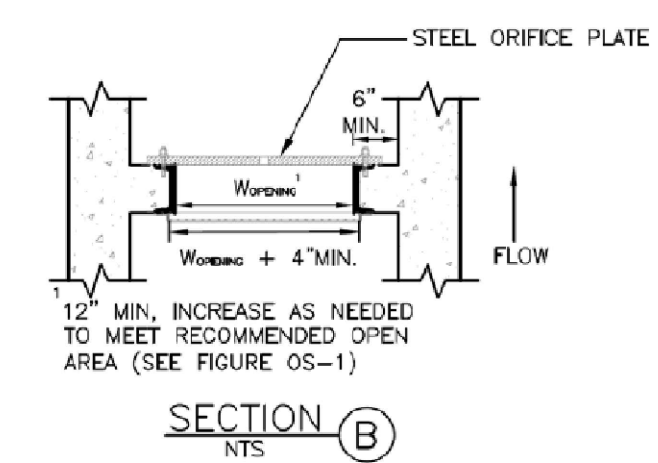
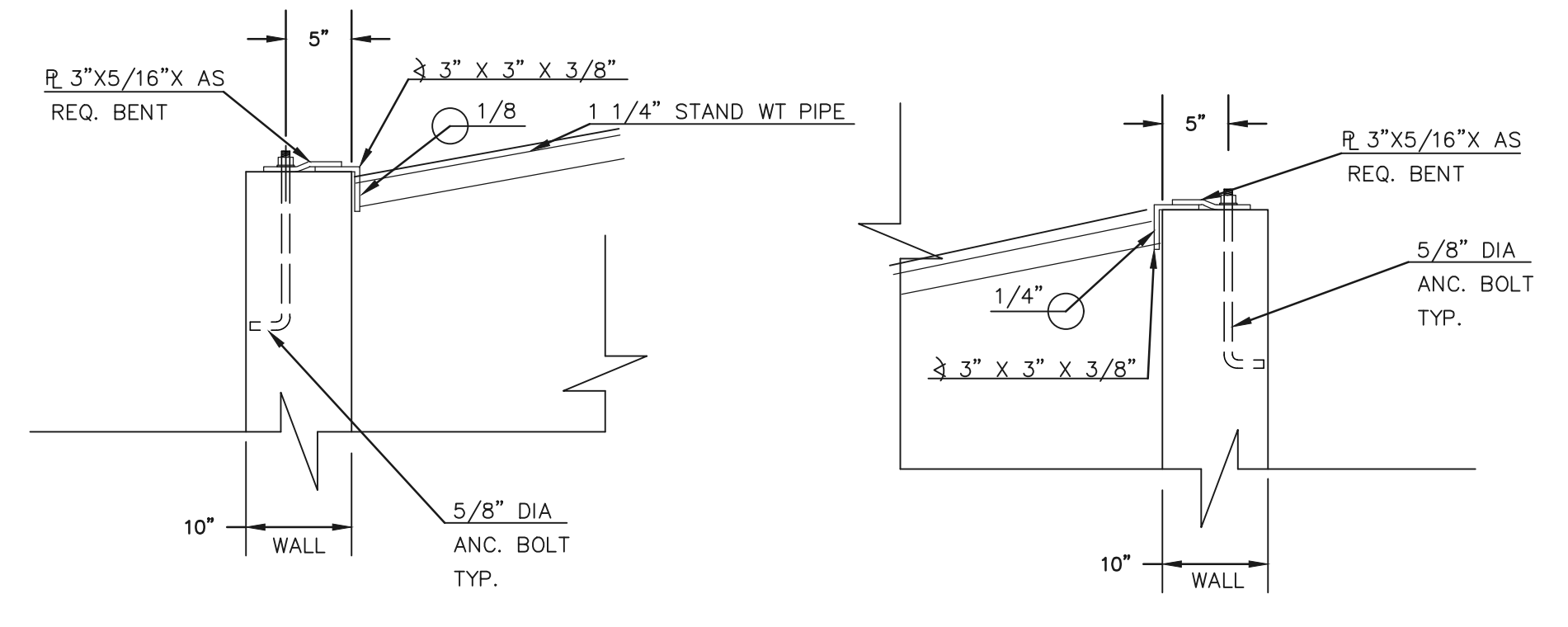
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  2. HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
  3. RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF THE WALLS.
  4. ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.



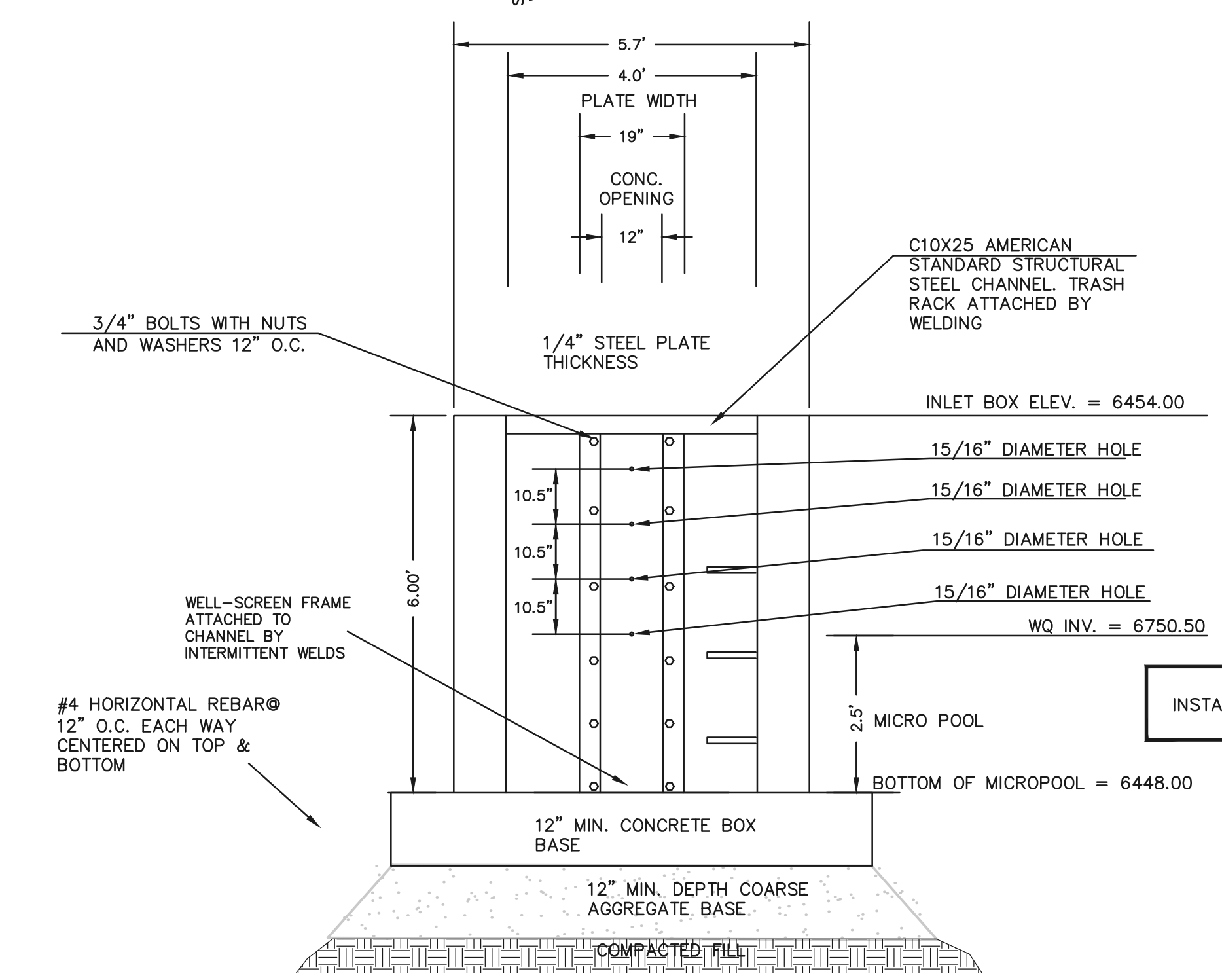
**4'X4' OUTLET BOX OVERFLOW TRASH RACK**



**OUTLET BOX RAILING**  
N.T.S.



Call out the 100-Yr. WSE & the EURV. WSE

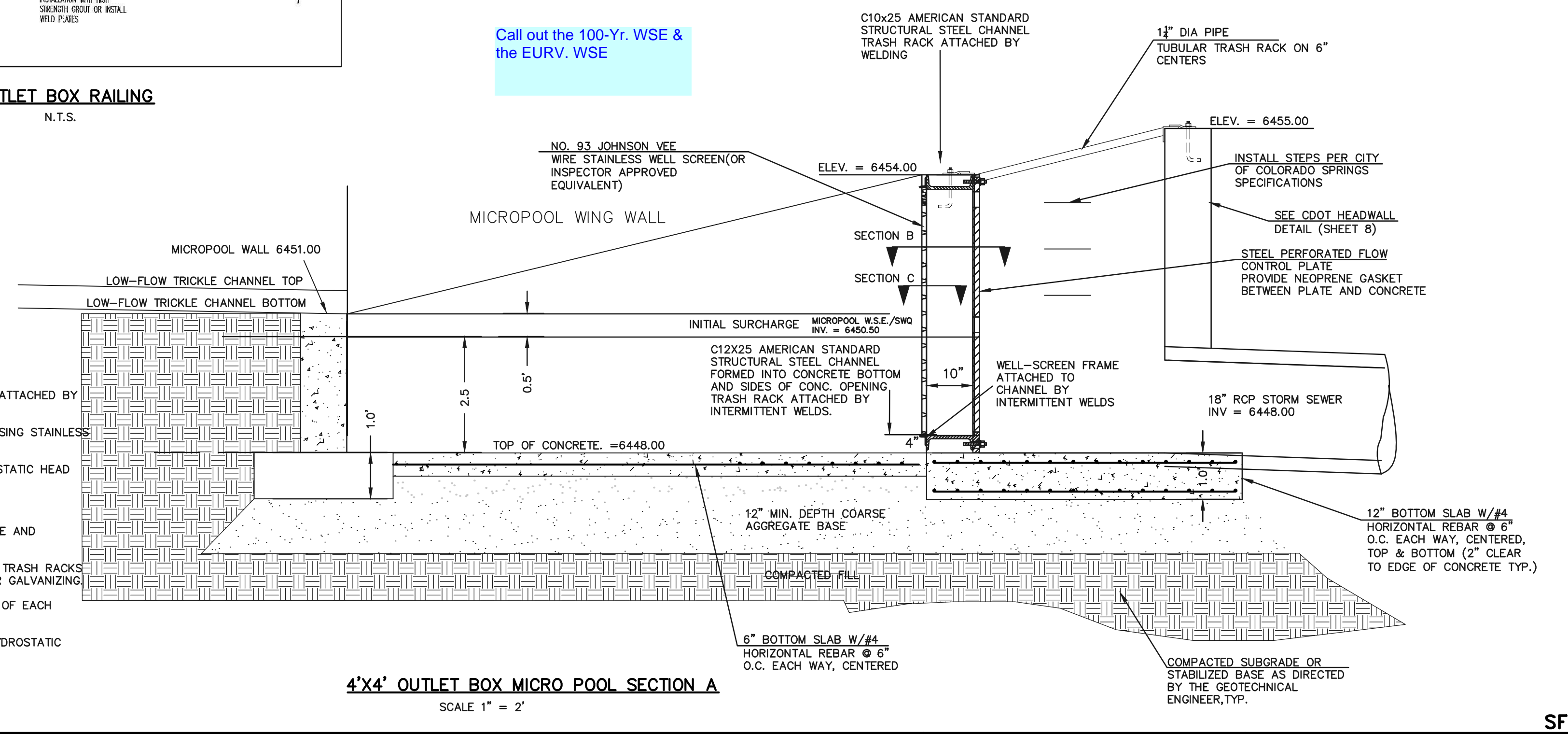


**4'X4' OUTLET BOX ORIFICE PLATE**  
SCALE 1" = 2"

- (ALL MATERIALS PER CITY OF COLORADO SPRINGS 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 WCW TRASH RACKS:
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
  2. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
  3. 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.

Include a note as to why the designer chose not to use a restrictor plate on the 18" outlet pipe.



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

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	NO. REVISION	DATE	REVIEW:
<b>811</b> UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW			PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
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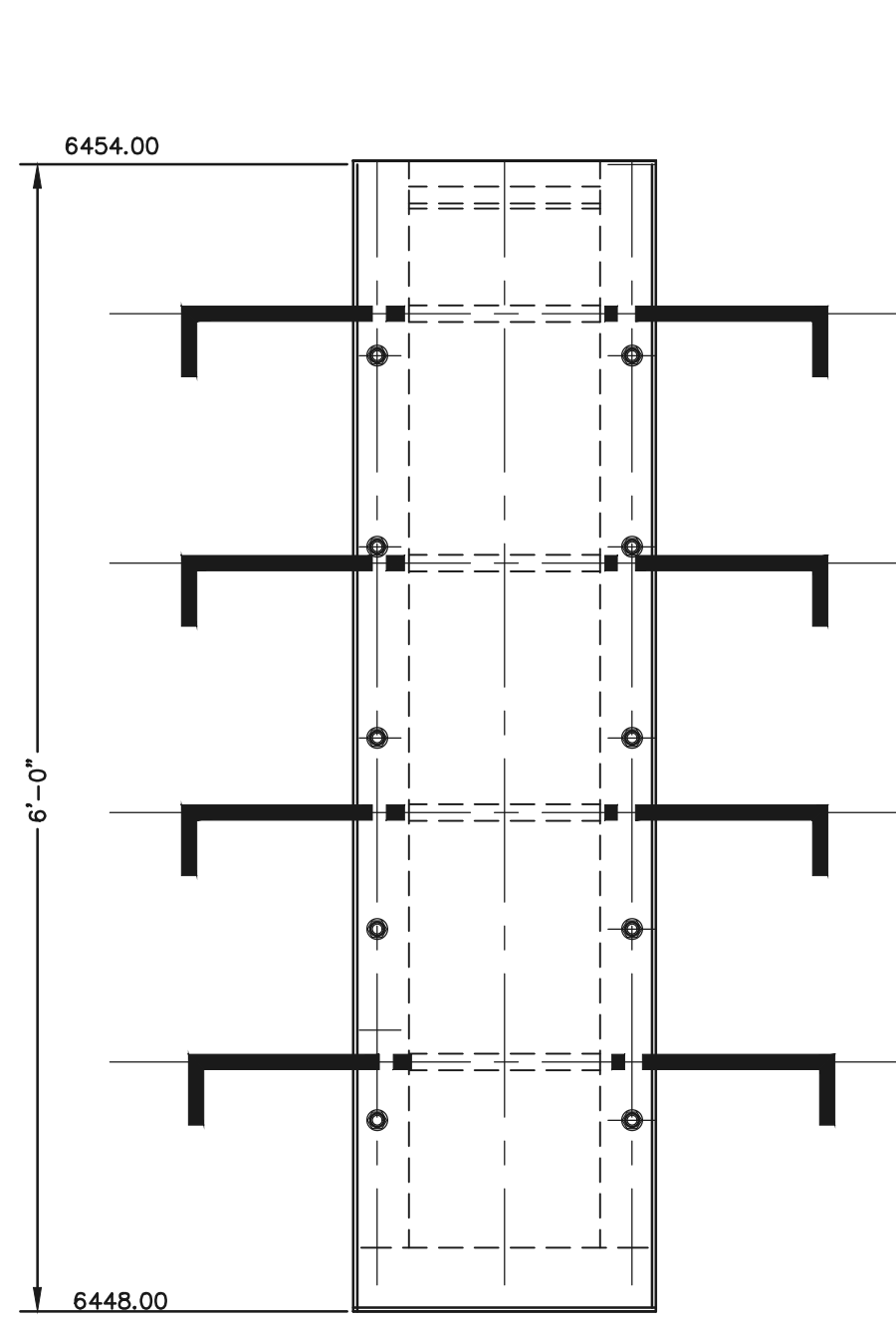
SF-19-007

**CLASSIC CONSULTING**

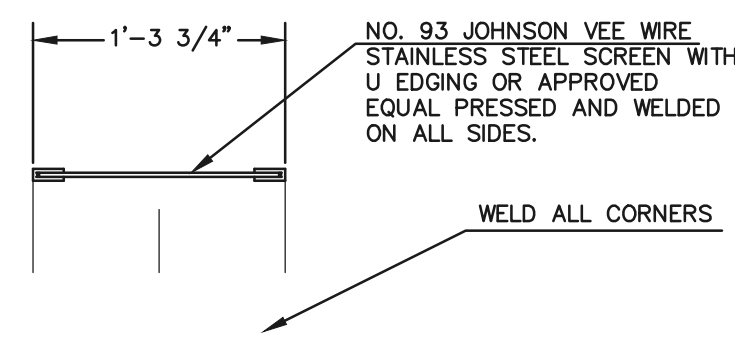
**MIDTOWN COLLECTION AT HANNAH RIDGE**  
FILING NO. 1  
PUBLIC EXTENDED DETENTION BASIN  
OUTLET BOX DETAILS POND 1

DESIGNED BY	DLG	SCALE	DATE	03/26/19
DRAWN BY	DLG	(H) 1" = N/A	SHEET	16 OF 20
CHECKED BY		(V) 1" = N/A	JOB NO.	1116.30

N:\11630\DRAWINGS\CONSTRUCTIVE\DRAW\STORM\811\16-111630-FEL-F010-04.dwg, 12/10/2019 10:13:32 AM, 1:1

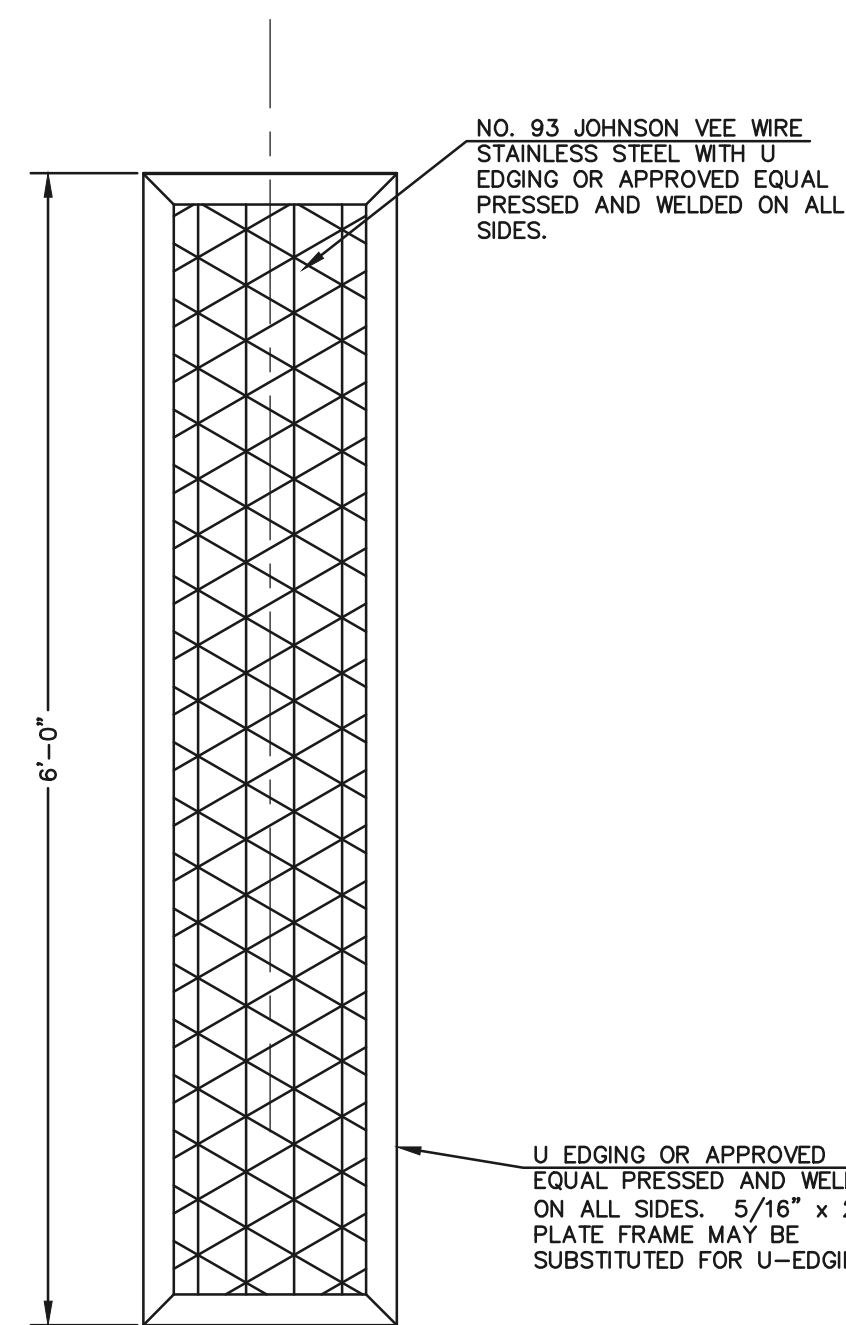


**OUTLET CONTROL  
PLATE AND FRAME**  
SCALE: 1"=1'



NO. 93 JOHNSON VEE WIRE  
STAINLESS STEEL SCREEN WITH  
U EDGING OR APPROVED  
EQUAL PRESSED AND WELDED  
ON ALL SIDES.

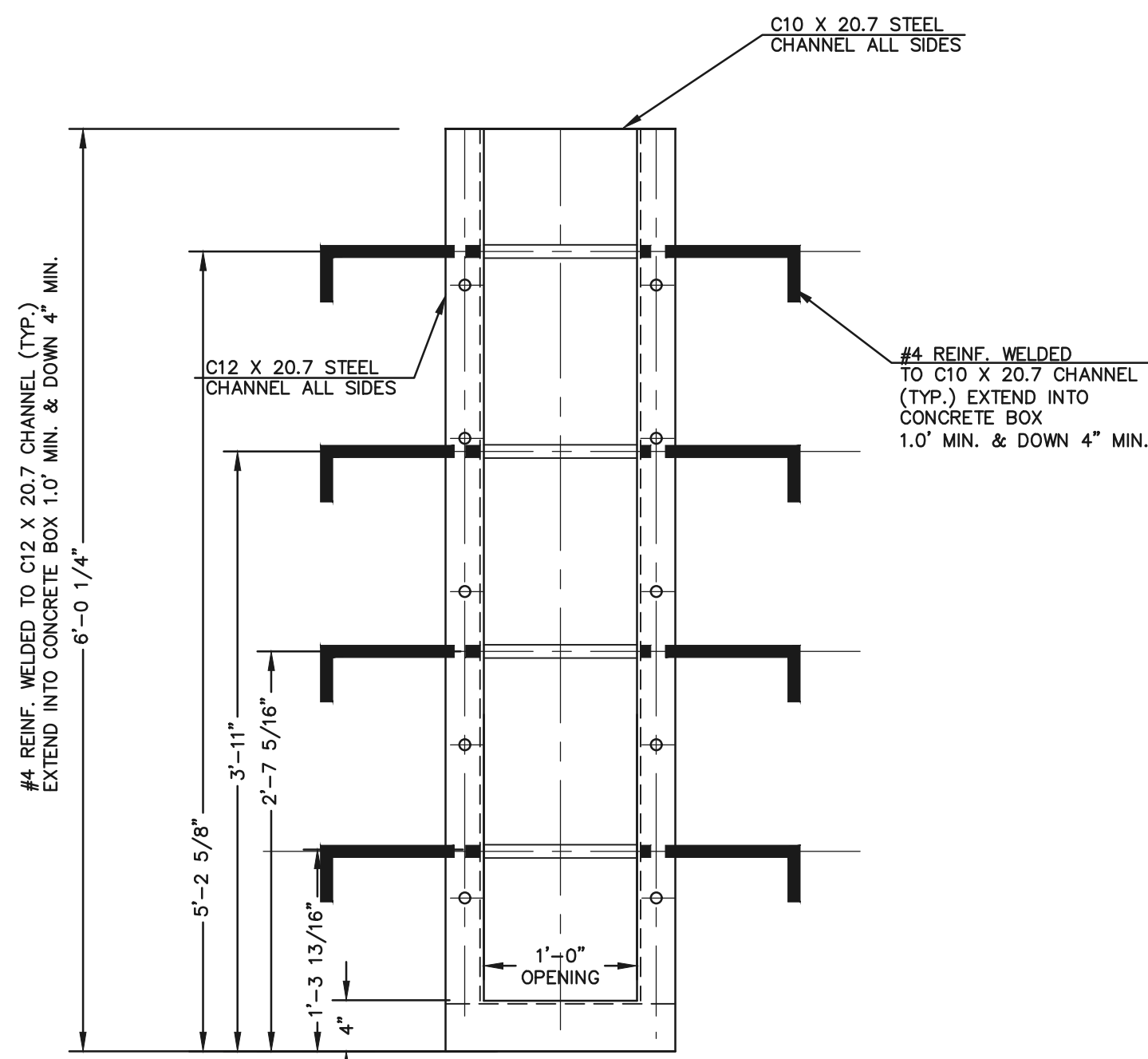
WELD ALL CORNERS



**TRASH SCREEN**  
SCALE: 1"=1'

NO. 93 JOHNSON VEE WIRE  
STAINLESS STEEL WITH U  
EDGING OR APPROVED  
EQUAL PRESSED AND WELDED  
ON ALL SIDES.

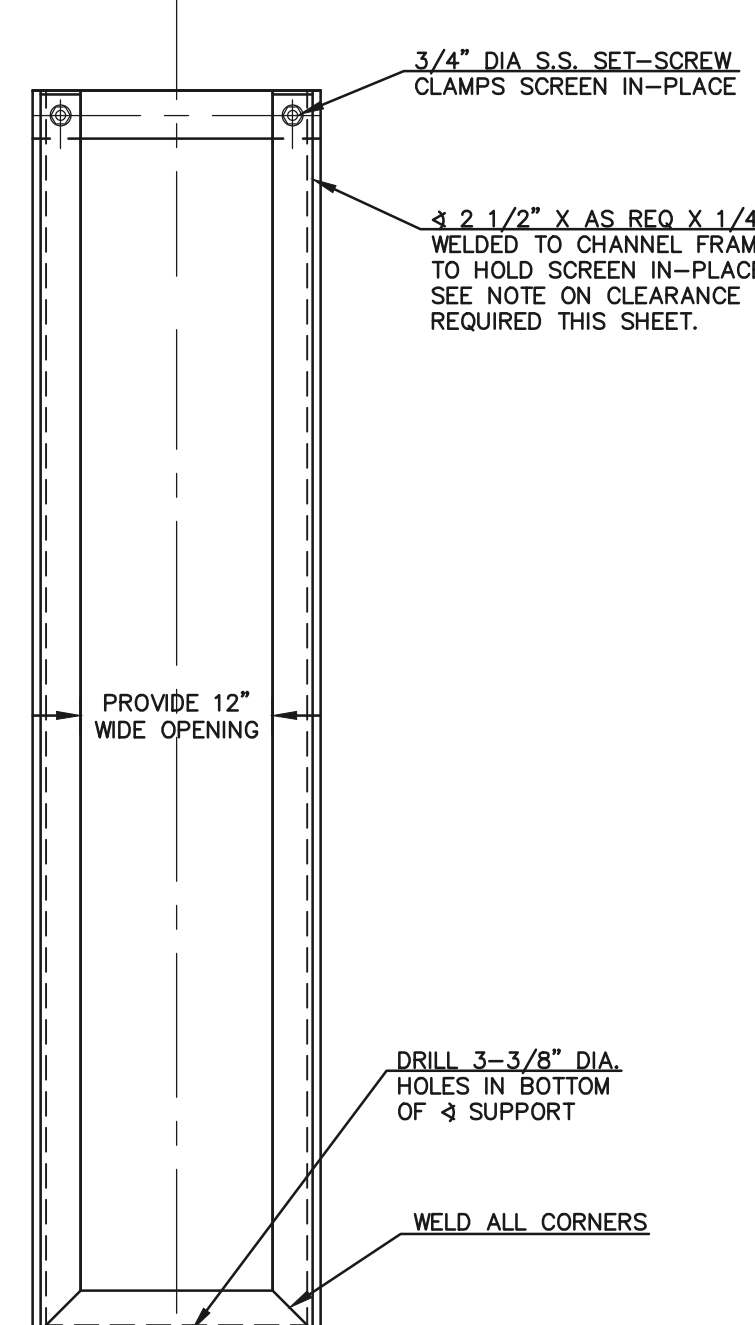
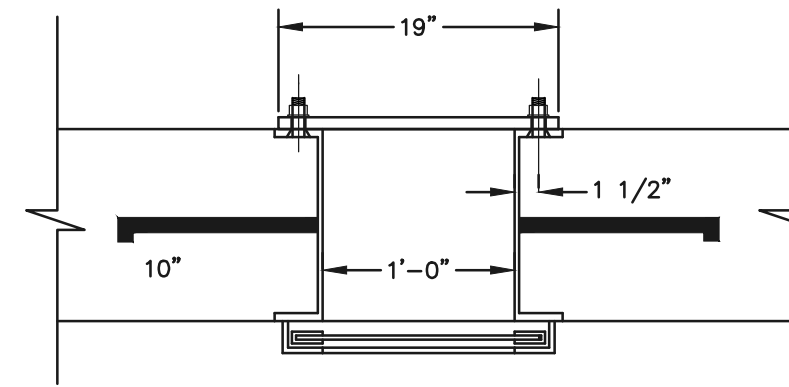
U EDGING OR APPROVED  
EQUAL PRESSED AND WELDED  
ON ALL SIDES. 5/16" x 2"  
PLATE FRAME MAY BE  
SUBSTITUTED FOR U-EDGING



**CHANNEL FRAME  
WITH WALL ANCHORS**  
SCALE: 1"=1'

#4 REINF. WELDED TO C12 X 20.7 CHANNEL (TYP.)  
EXTEND INTO CONCRETE BOX 1.0' MIN. & DOWN 4" MIN.

#4 REINF. WELDED  
TO C10 X 20.7 CHANNEL  
(TYP.) EXTEND INTO  
CONCRETE BOX  
1.0' MIN. & DOWN 4" MIN.



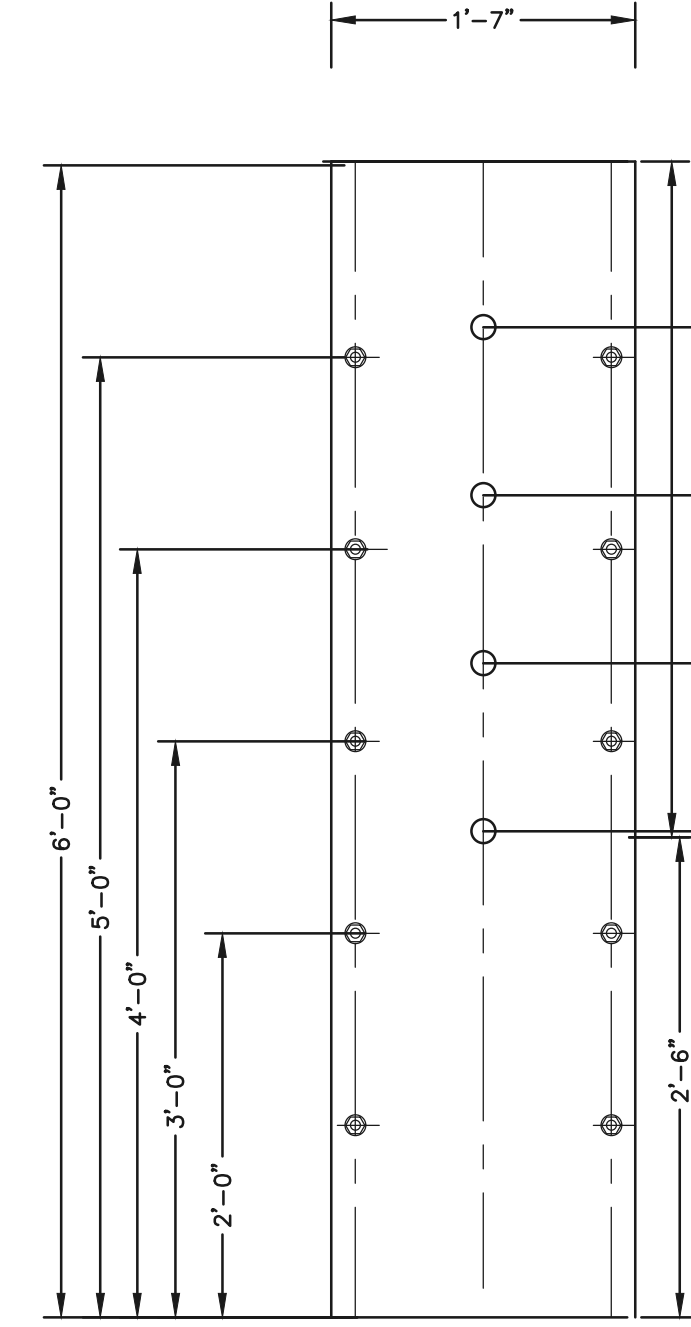
**SCREEN SUPPORT**  
SCALE: 1"=1'

3/4" DIA S.S. SET-SCREW  
CLAMPS SCREEN IN-PLACE

PROVIDE 12"  
WIDE OPENING

DRILL 3-3/8" DIA.  
HOLES IN BOTTOM  
OF 4 SUPPORT

WELD ALL CORNERS



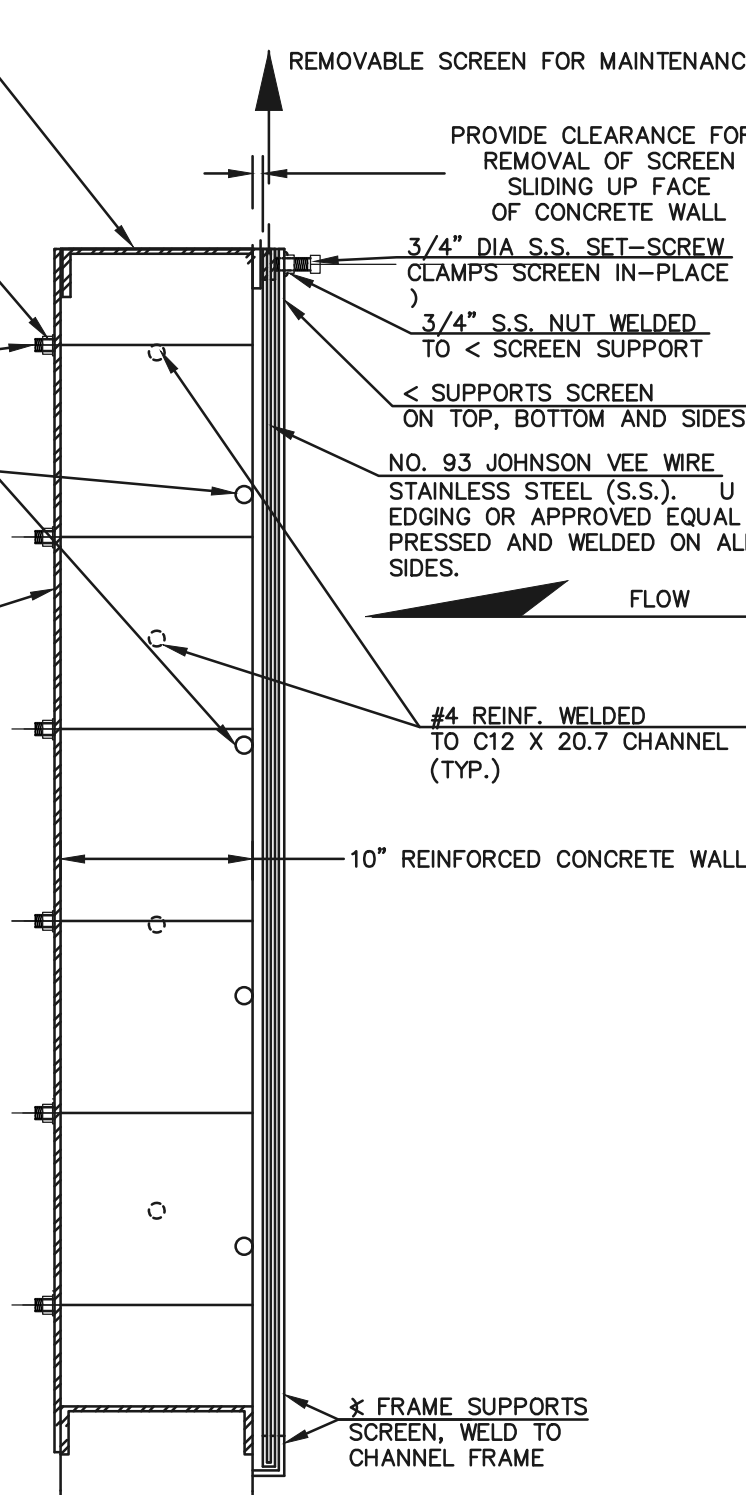
**1/4" THICK  
ORIFICE PLATE**  
SCALE: 1"=1'

WELL-SCREEN FRAME ATTACHED TO  
CHANNEL BY INTERMITTENT WELDS

LOWEST ORIFICE (15/16") INVERT = 6450.50  
ORIFICE (15/16") INVERT = 6451.37  
ORIFICE (15/16") INVERT = 6452.25  
ORIFICE (15/16") INVERT = 6453.12

C10 X 25  
CHANNEL

**SECTION A-A**  
SCALE: 1"=1'



S.S. NUT &  
WASHER

S.S. 3/4" DIA.  
THREADED STUD  
WELDED IN  
CHANNEL, TYP.

3/4" DIA. STD. WT.  
PIPE WELDED TO  
SIDE CHANNELS  
(SCREEN SUPPORT)

1/4" THICK  
ORIFICE PLATE

3/4" DIA S.S. SET-SCREW  
CLAMPS SCREEN IN-PLACE

3/4" S.S. NUT WELDED  
TO < SCREEN SUPPORT

< SUPPORTS SCREEN  
ON TOP, BOTTOM AND SIDES

NO. 93 JOHNSON VEE WIRE  
STAINLESS STEEL (S.S.). U  
EDGING OR APPROVED EQUAL  
PRESSED AND WELDED ON ALL  
SIDES.

#4 REINF. WELDED  
TO C12 X 20.7 CHANNEL  
(TYP.)

10" REINFORCED CONCRETE WALL

X FRAME SUPPORTS  
SCREEN, WELD TO  
CHANNEL FRAME

REMOVABLE SCREEN FOR MAINTENANCE

PROVIDE CLEARANCE FOR  
REMOVAL OF SCREEN  
SLIDING UP FACE  
OF CONCRETE WALL

3/4" DIA S.S. SET-SCREW  
CLAMPS SCREEN IN-PLACE

3/4" S.S. NUT WELDED  
TO < SCREEN SUPPORT

< SUPPORTS SCREEN  
ON TOP, BOTTOM AND SIDES

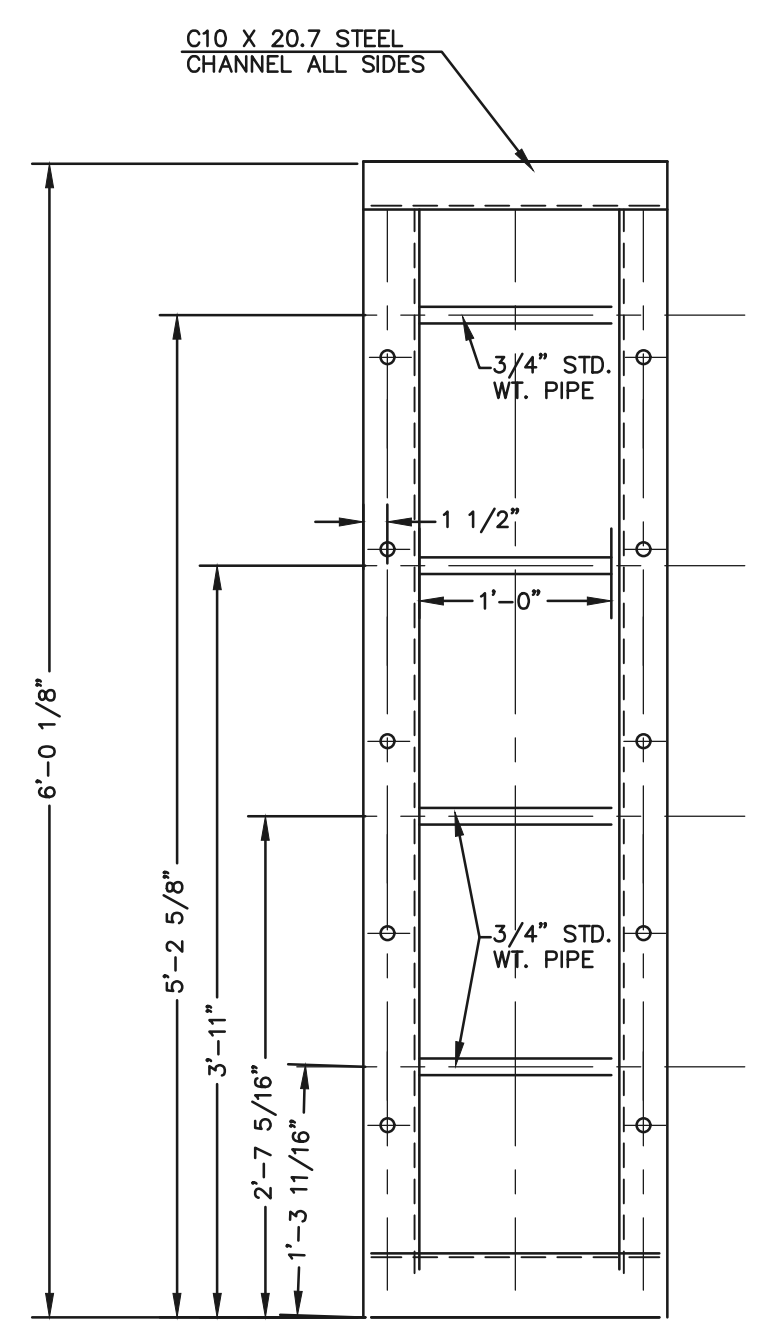
NO. 93 JOHNSON VEE WIRE  
STAINLESS STEEL (S.S.). U  
EDGING OR APPROVED EQUAL  
PRESSED AND WELDED ON ALL  
SIDES.

#4 REINF. WELDED  
TO C12 X 20.7 CHANNEL  
(TYP.)

10" REINFORCED CONCRETE WALL

X FRAME SUPPORTS  
SCREEN, WELD TO  
CHANNEL FRAME

FLOW



**CHANNEL FRAME**  
SCALE: 1"=1'

C10 X 20.7 STEEL  
CHANNEL ALL SIDES

3/4" STD.  
WT. PIPE

1 1/2"

1'-0"

3/4" STD.  
WT. PIPE

6'-0 1/8"

5'-2 5/8"

3'-11"

2'-7 5/16"

1'-3 11/16"

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

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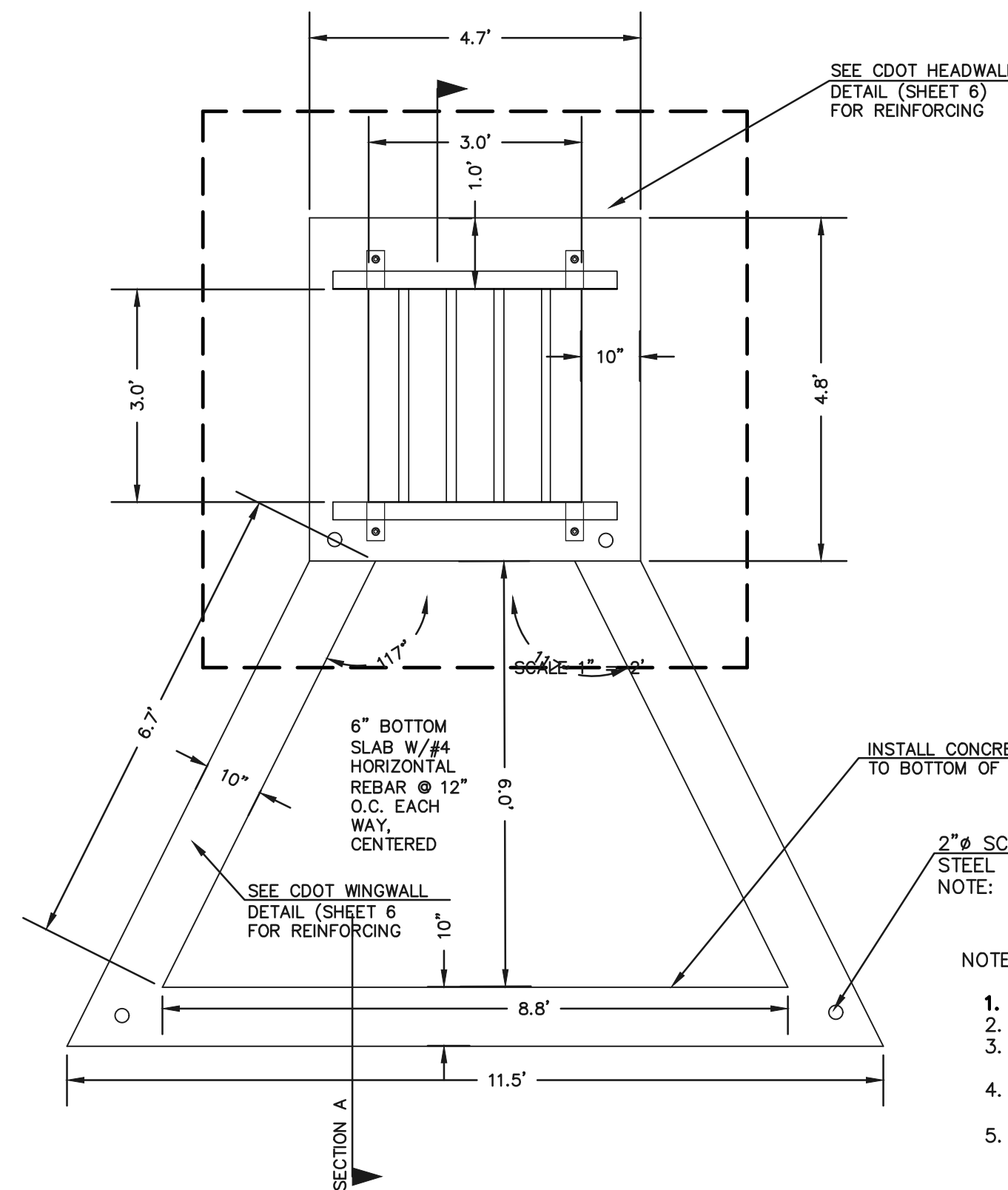
(719)785-0790  
(719)785-0799(fax)

MIDTOWN COLLECTION AT HANNAH RIDGE			
FILING NO. 1			
PUBLIC EXTENDED DETENTION BASIN			
OUTLET PLATE DETAILS POND 1			
DESIGNED BY	DLG	SCALE	DATE 03/26/19
DRAWN BY	DLG	(H) 1"= N/A	SHEET 17 OF 20
CHECKED BY		(V) 1"= N/A	JOB NO. 1116.30

SF-19-007

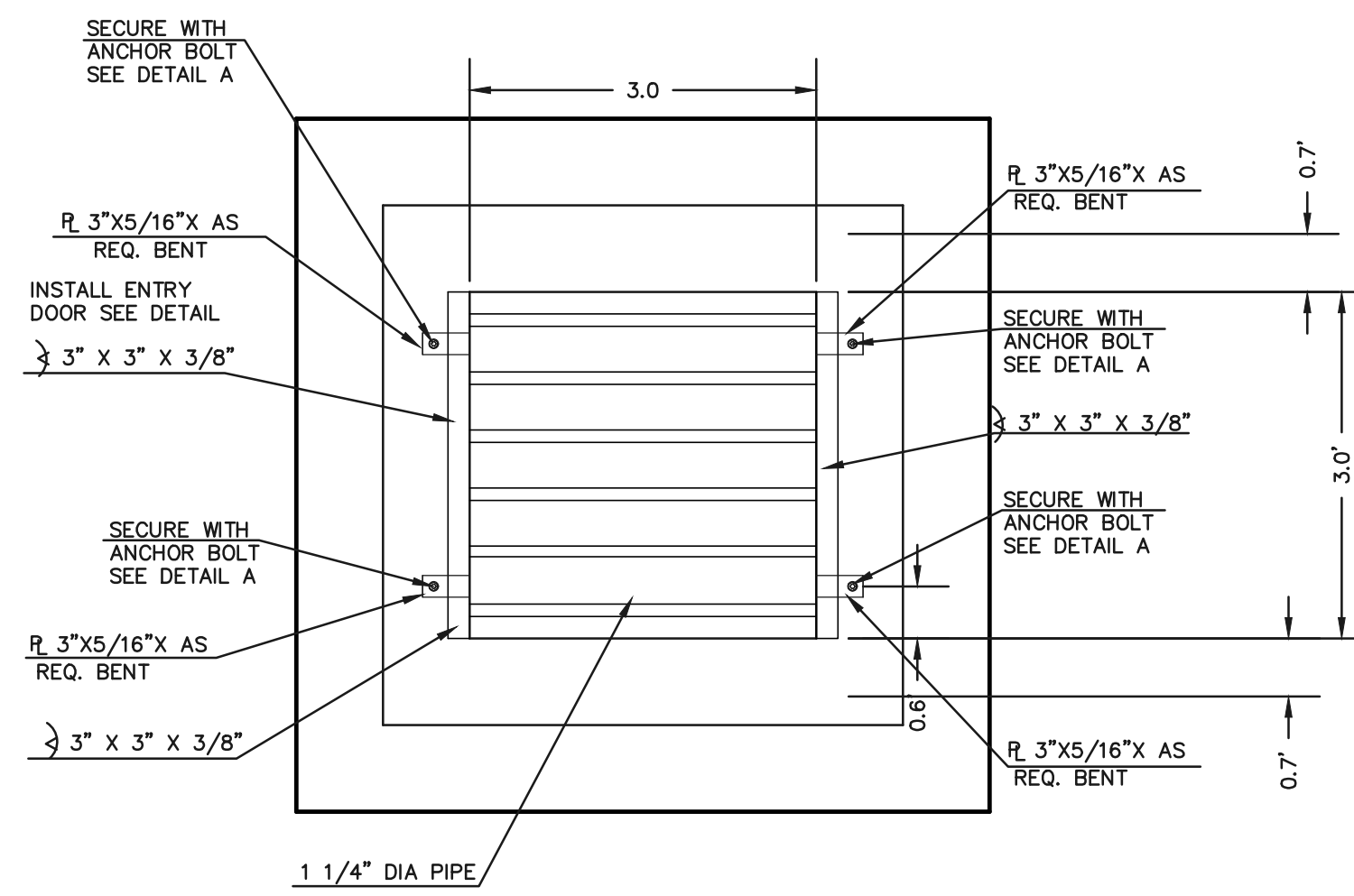


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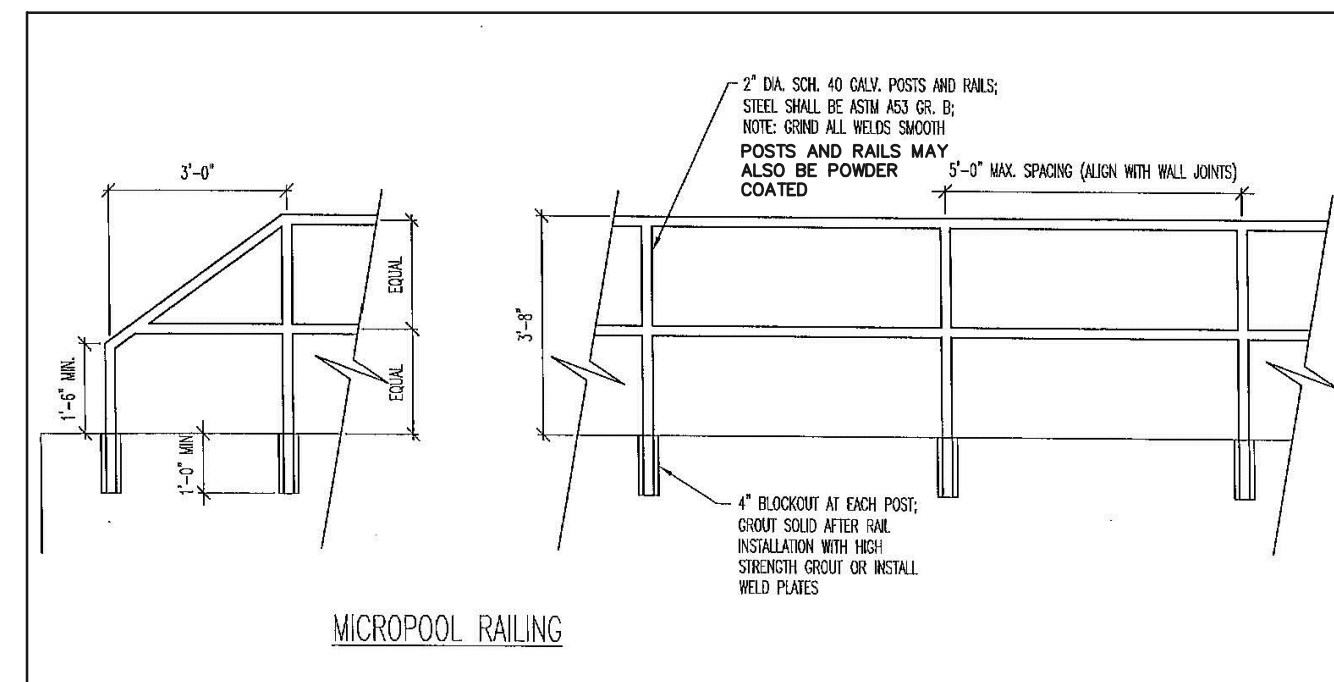
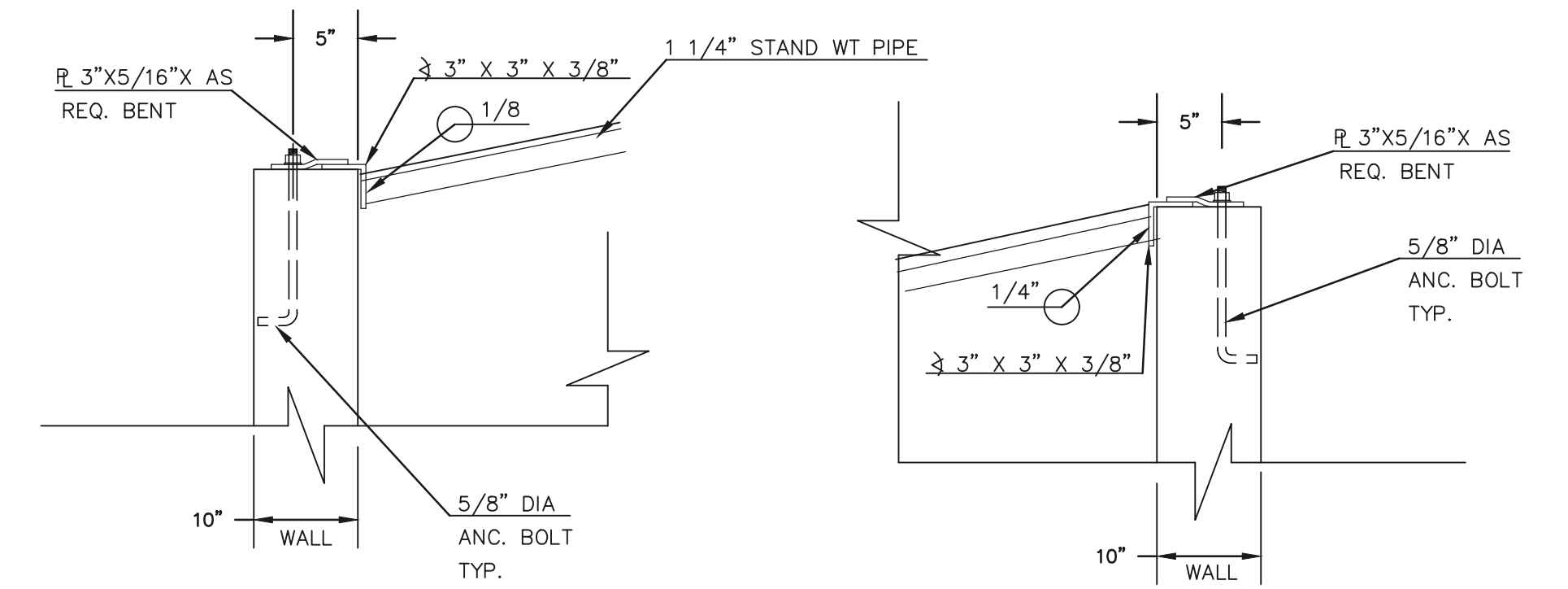


NOTES:

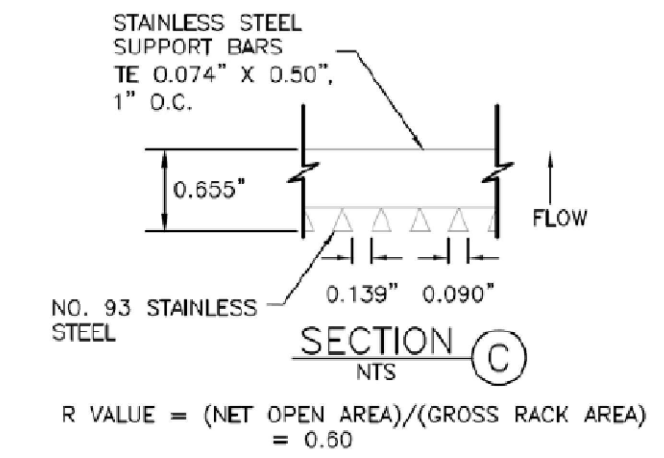
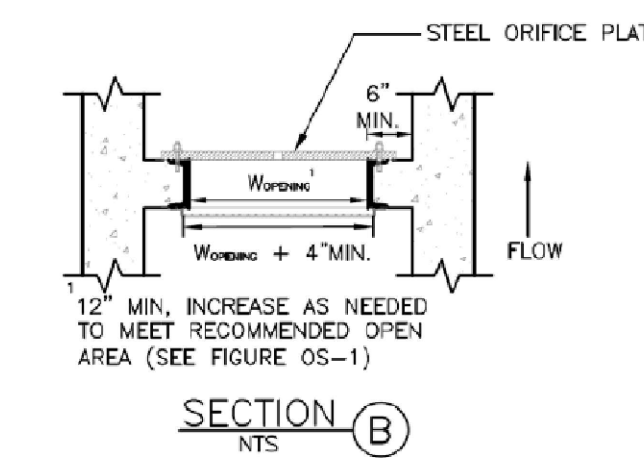
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3'X3' OUTLET BOX OVERFLOW TRASH RACK



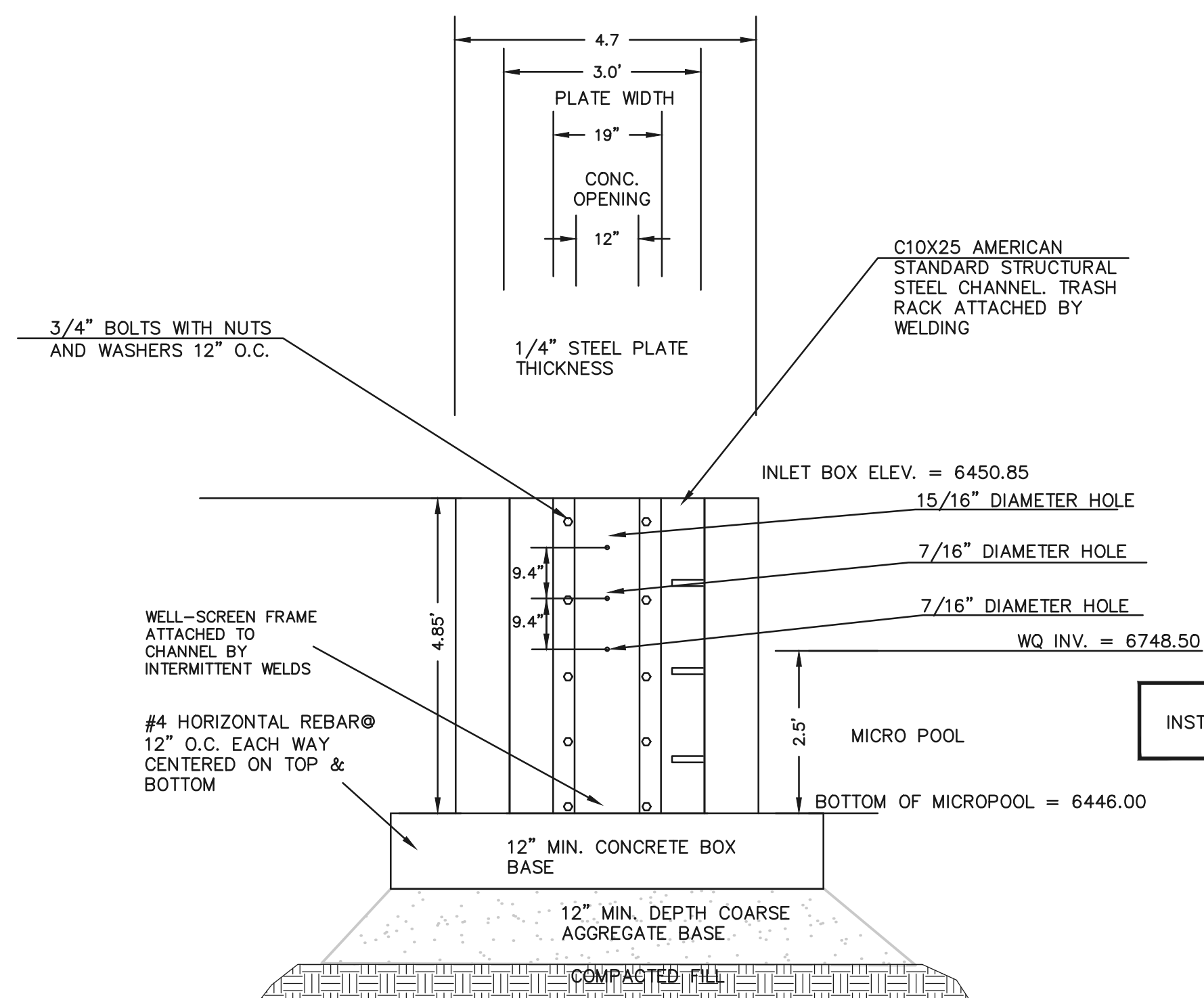
OUTLET BOX RAILING



Call out the 100-Yr. WSE & the EURV. WSE

CONCRETE MICROPOOL

SCALE 1" = 2'



3'x3' OUTLET BOX ORIFICE PLATE

SCALE 1" = 2'

(ALL MATERIALS PER CITY OF COLORADO SPRINGS SPECIFICATIONS)

ORIFICE PLATE NOTES:

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

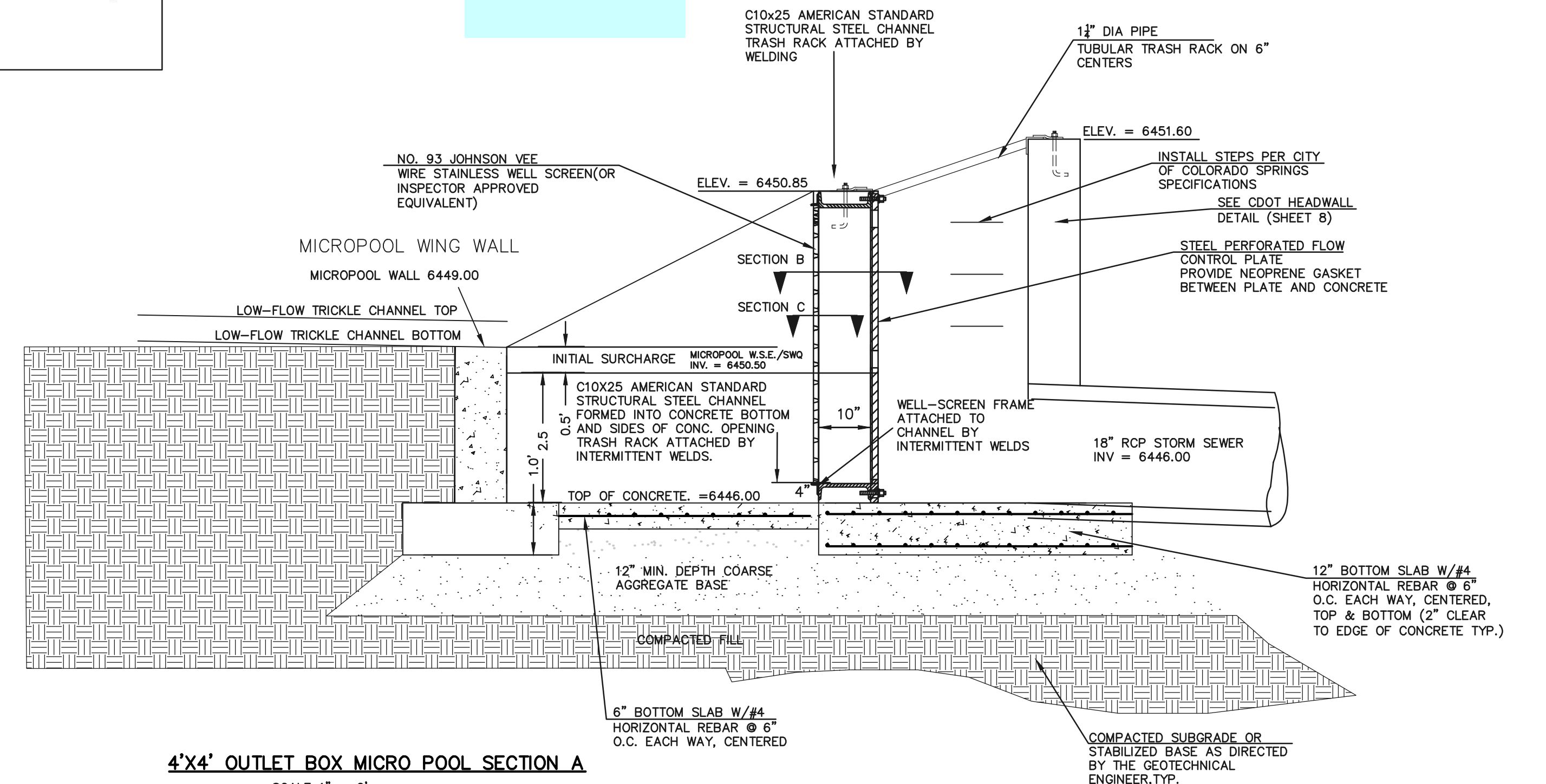
EURV AND WQCV TRASH RACKS:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
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3. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK.

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Include a note as to why the designer chose not to use a restrictor plate on the 18" outlet pipe.



4'x4' OUTLET BOX MICRO POOL SECTION A

SCALE 1" = 2'

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<b>811</b>			
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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

618 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

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

**CLASSIC CONSULTING**

**SF-19-007**

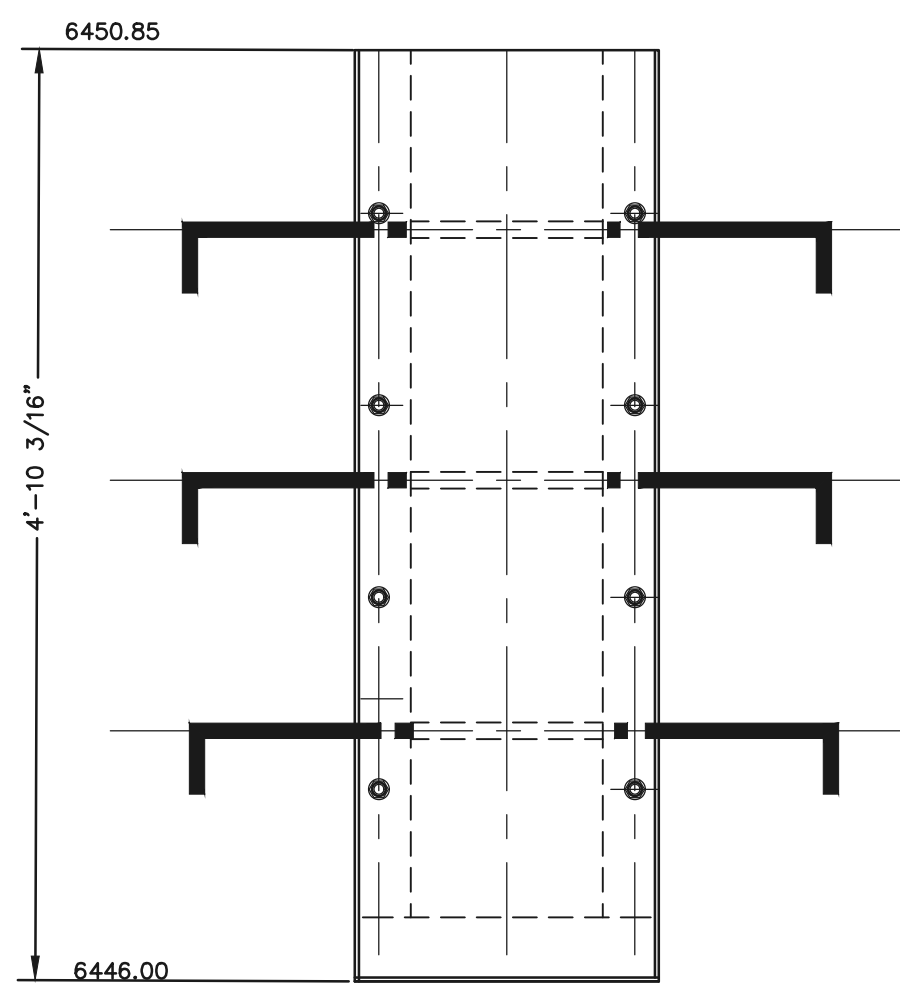
MIDTOWN COLLECTION AT HANNAH RIDGE

FILING NO. 1

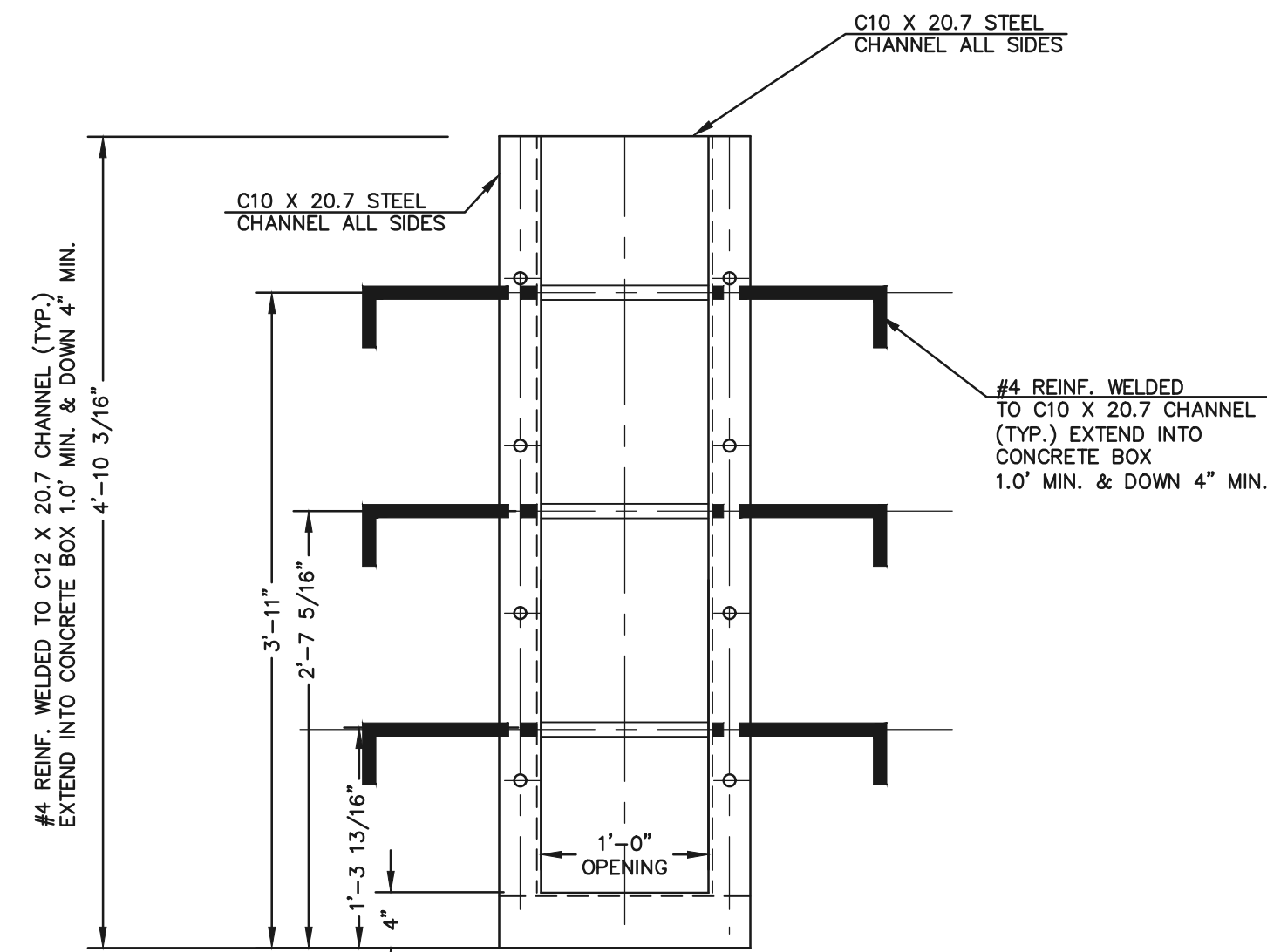
PUBLIC EXTENDED DETENTION BASIN

OUTLET BOX DETAILS POND 2

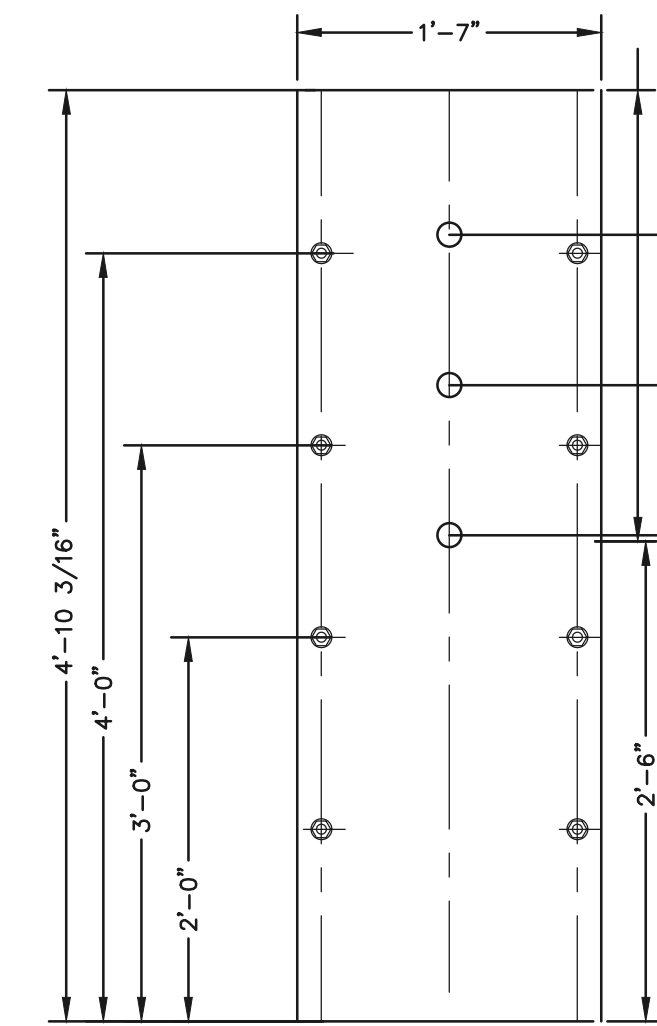
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CHECKED BY		(V) 1" = N/A	JOB NO.	1116.30



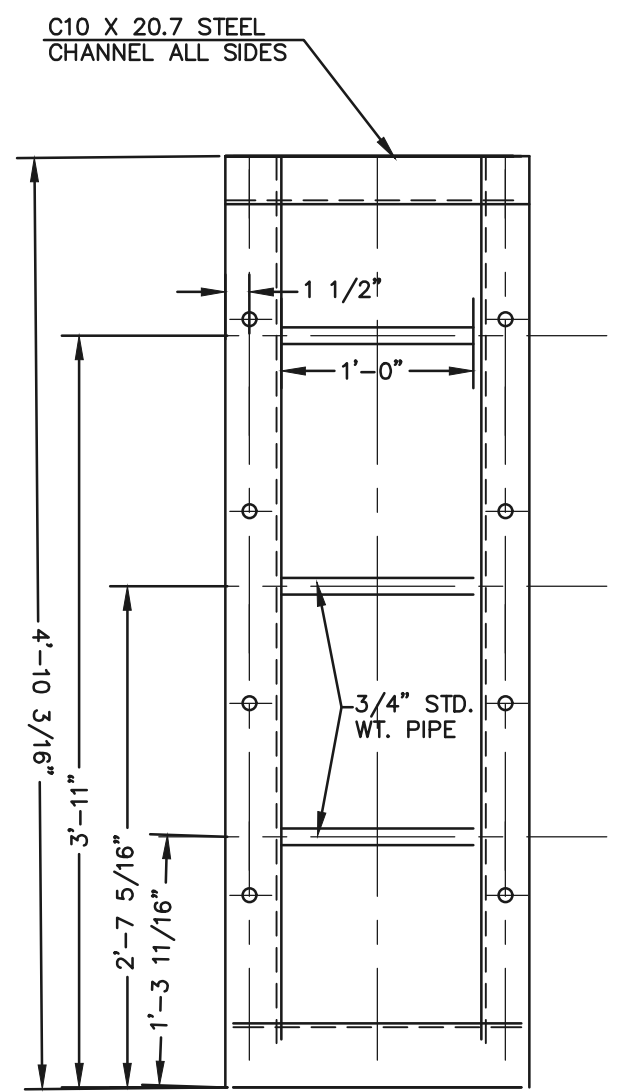
**OUTLET CONTROL  
PLATE AND FRAME**  
SCALE: 1"=1'



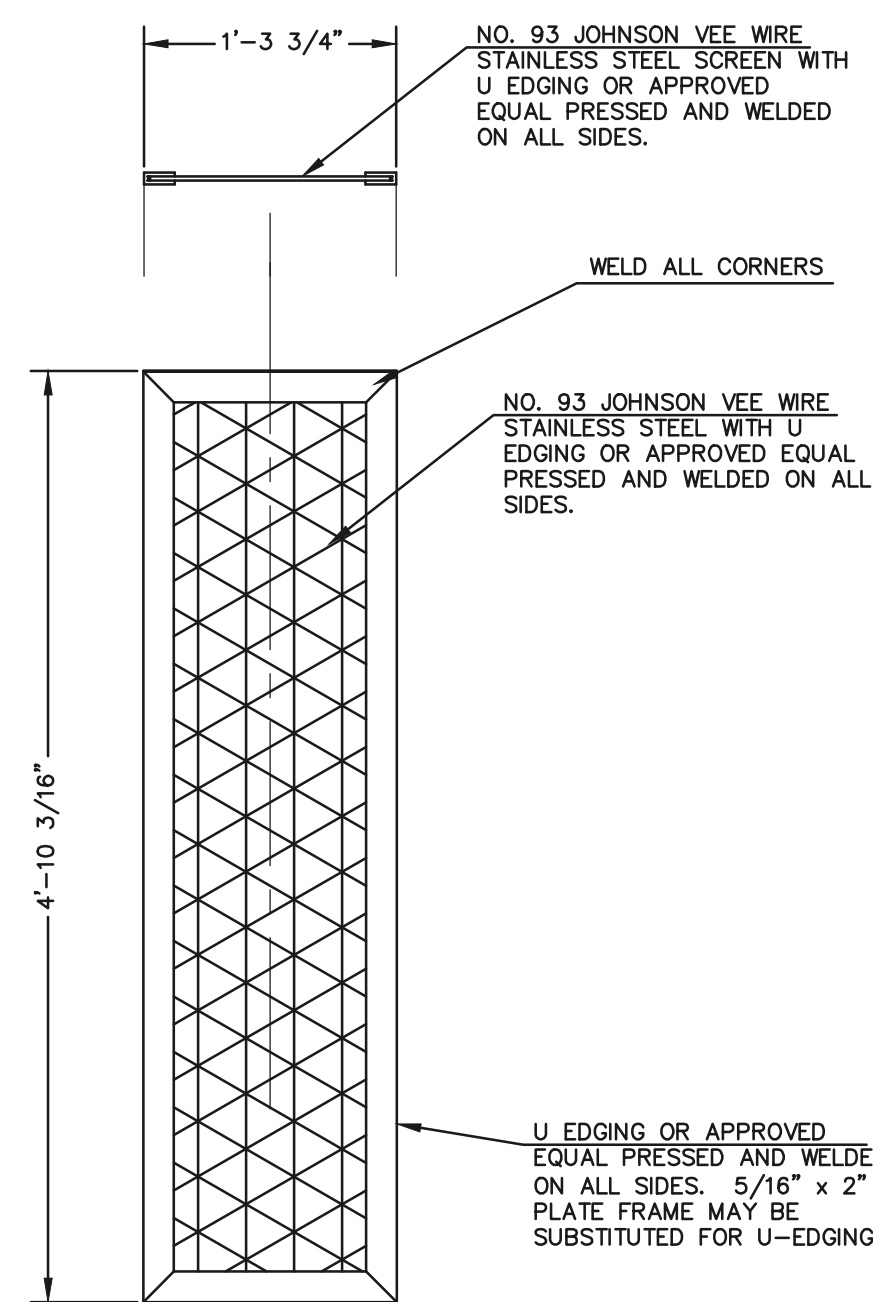
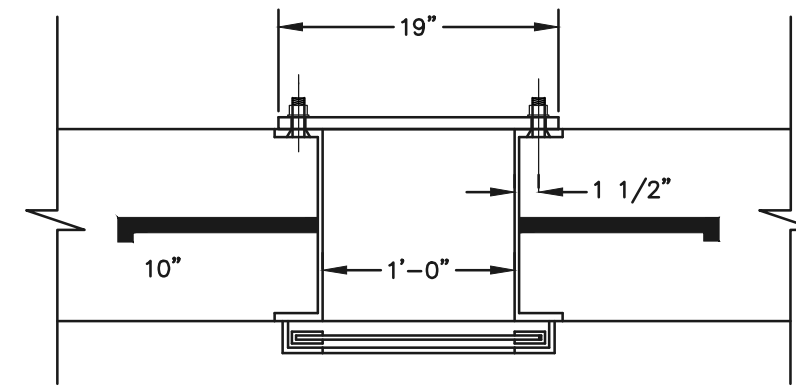
**CHANNEL FRAME  
WITH WALL ANCHORS**  
SCALE: 1"=1'



**1/4" THICK  
ORIFICE PLATE**  
SCALE: 1"=1'

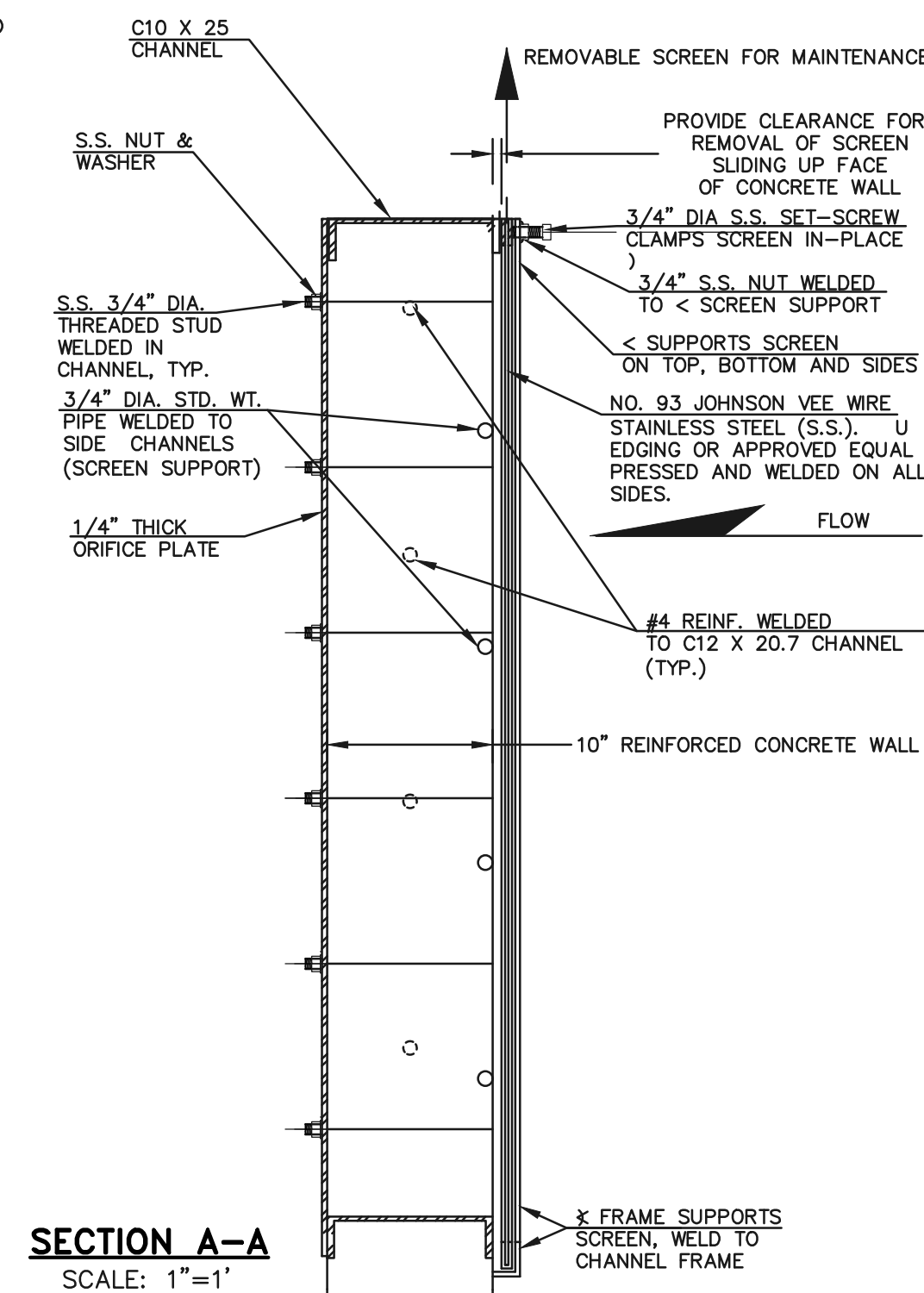
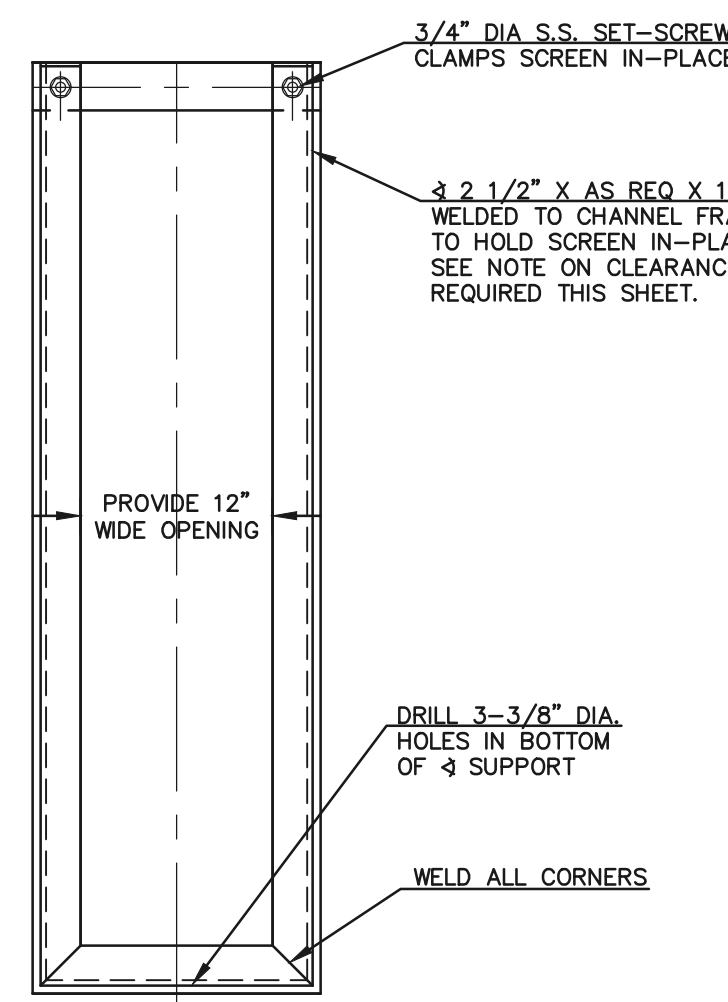


**CHANNEL FRAME**  
SCALE: 1"=1'



**TRASH SCREEN**  
SCALE: 1"=1'

**SCREEN SUPPORT**  
SCALE: 1"=1'



**SECTION A-A**  
SCALE: 1"=1'

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619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903

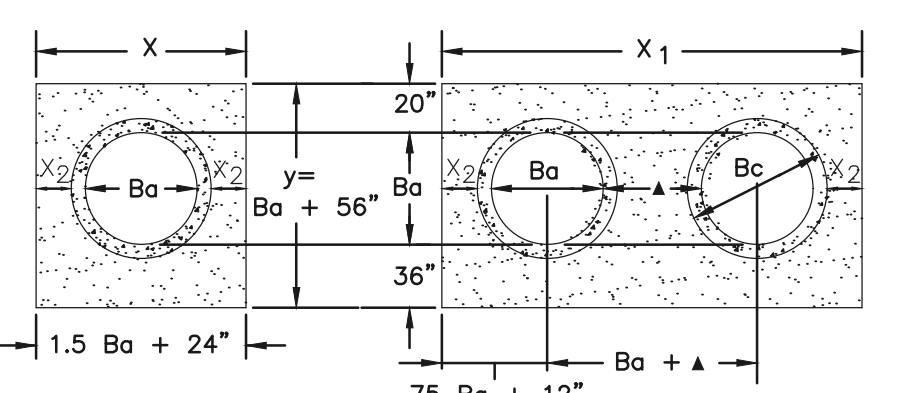
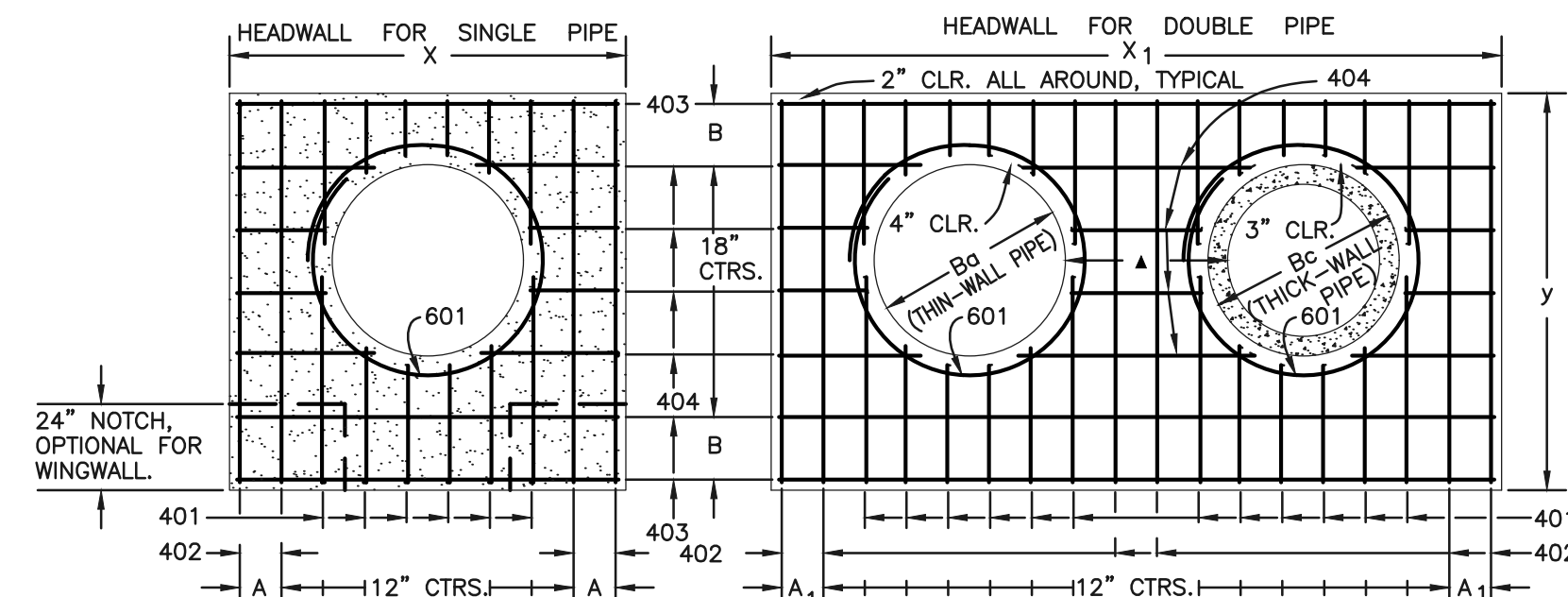
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<p><b>MIDTOWN COLLECTION AT HANNAH RIDGE</b></p> <p>FILING NO. 1</p> <p>PUBLIC EXTENDED DETENTION BASIN</p> <p>OUTLET PLATE DETAILS POND 2</p>			
DESIGNED BY	DLG	SCALE	DATE
DRAWN BY	DLG	(H) 1"= N/A	03/26/19
CHECKED BY		(V) 1"= N/A	SHEET 19 OF 20
			JOB NO. 1116.30

SF-19-007

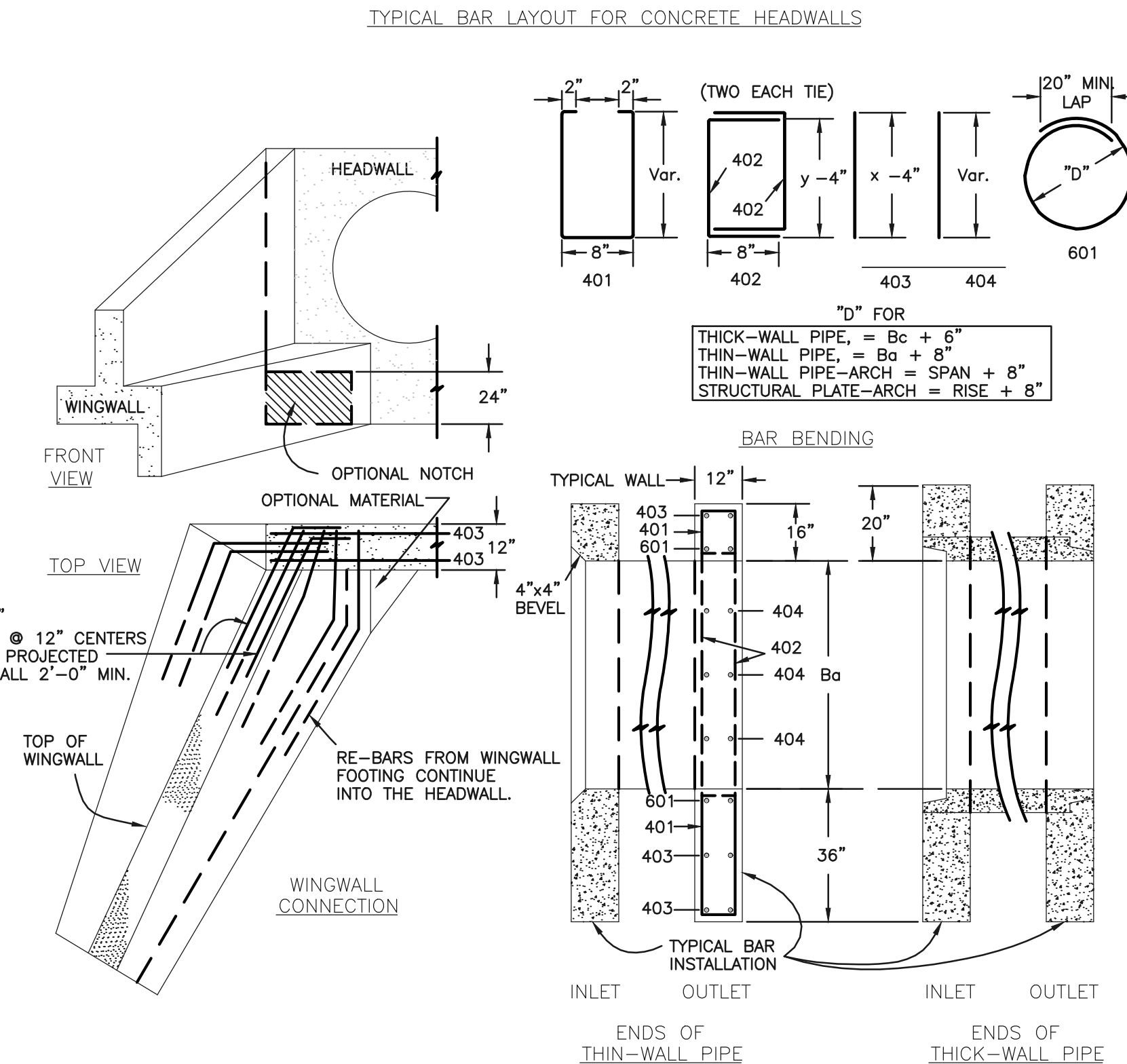


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DIMENSIONS		QUANTITIES										
Ba	Bc	CONCRETE	STEEL									
in.	in.	CU. YD.	LB.									
54	65	8.9	8.7	15.6	7	9-2	17	20	2.12	3.55	209	364
60	72	9-6	7	17-0	10	9-8	11	21	2.35	3.99	236	414
66	79	10-3	11 1/2	18-6	7	10-2	14	22	2.60	4.44	249	453
72	86	11-0	10	20-0	10	10-8	17	23	2.85	4.91	270	476
78	93	11-9	8 1/2	21-3	11	11-2	11	24	3.11	5.29	306	527
84	100	12-6	7	22-6	7	11-8	14	25	3.38	5.68	333	572
90	107	13-3	11 1/2	23-9	8 1/2	12-2	17	26	3.66	6.08	335	593
96	114	14-0	10	25-0	10	12-8	11	27	3.94	6.48	379	649
102	121	14-9	8 1/2	26-3	11 1/2	13-2	14	28	4.24	6.89	400	664
108	128	15-6	7	27-6	7	13-8	17	29	4.54	7.30	424	707

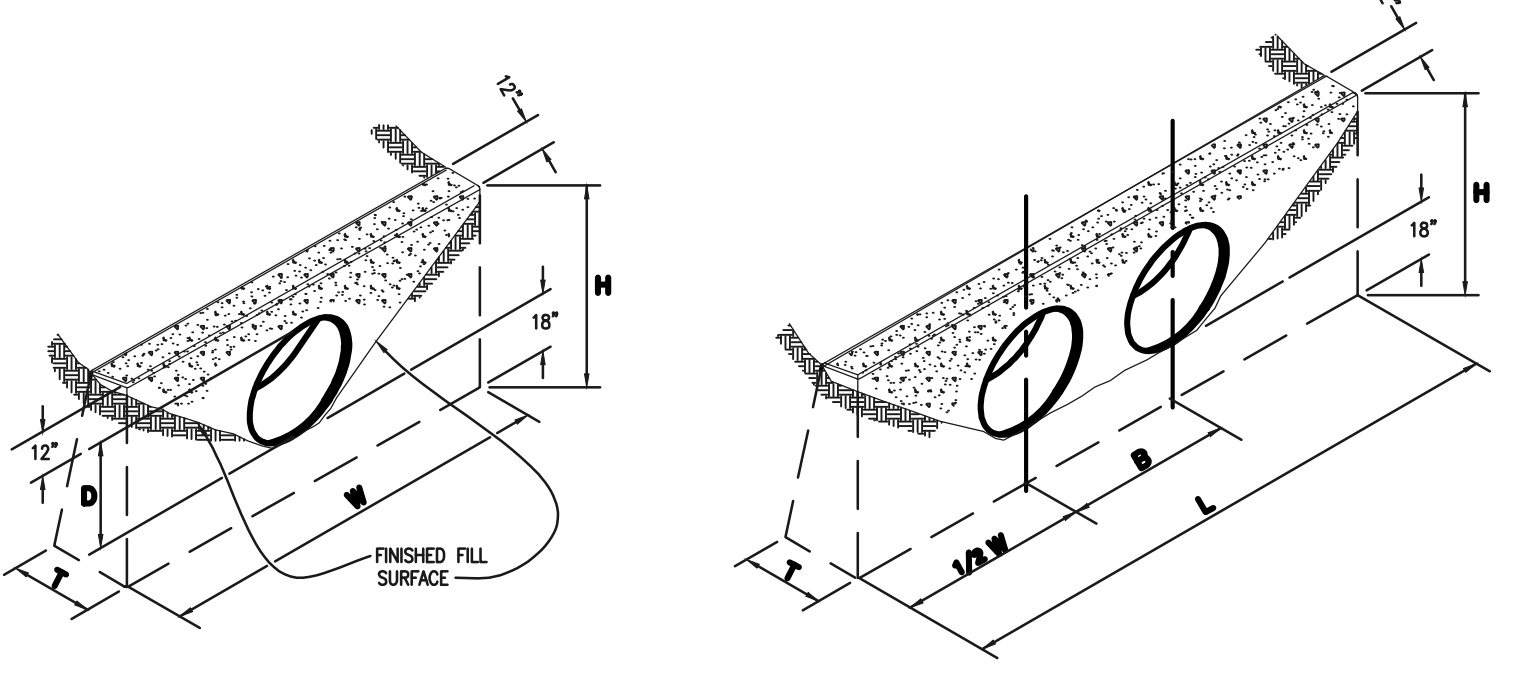
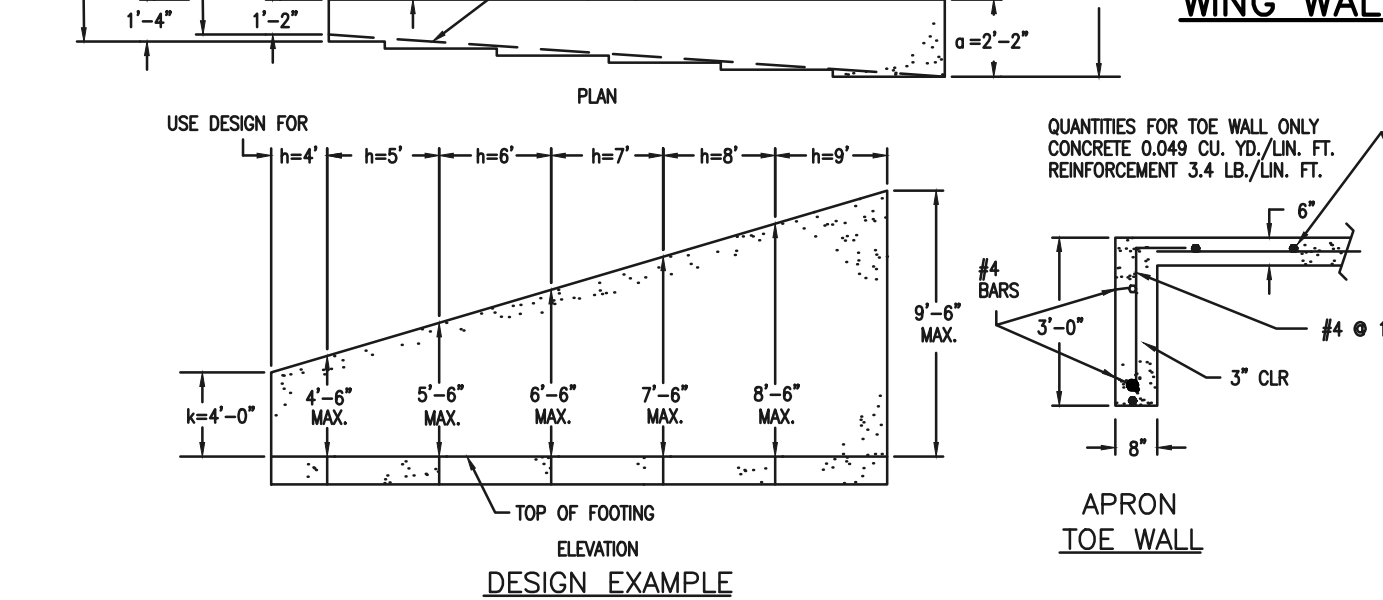
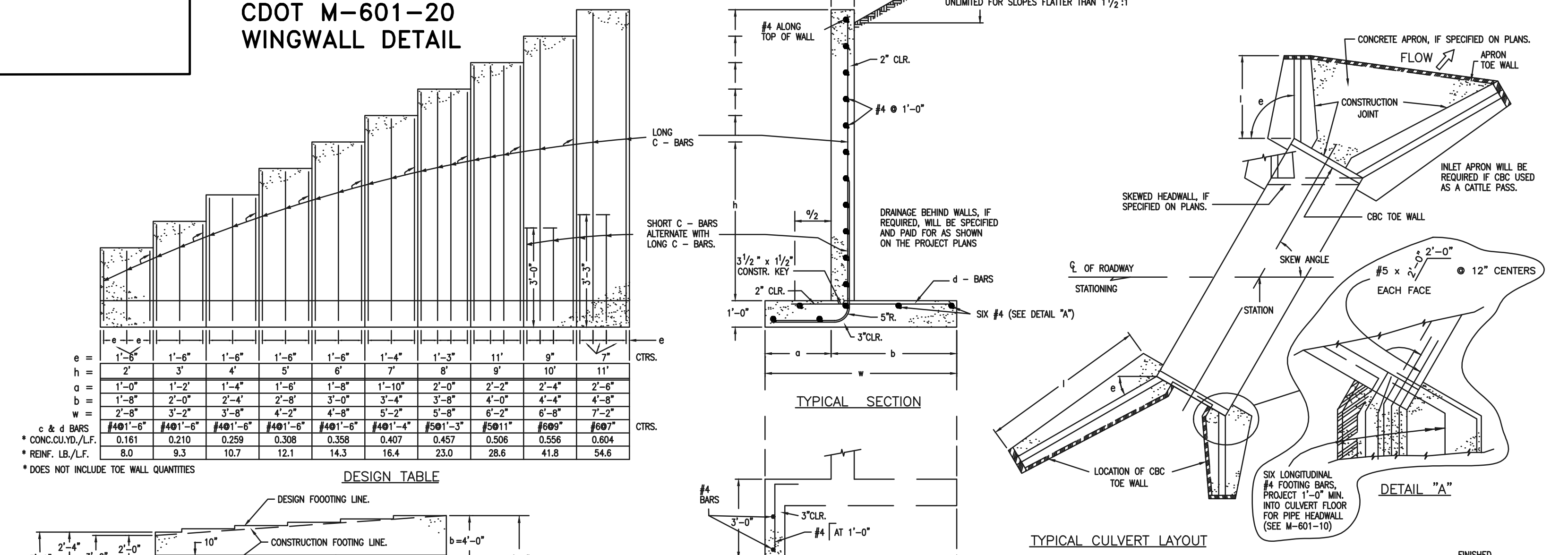
GENERAL NOTES  
 1. CONCRETE SHALL BE CLASS B.  
 2. HEADWALL SHALL BE PERPENDICULAR TO THE CULVERT CENTERLINE UNLESS OTHERWISE SHOWN ON THE PLANS. TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.  
 3. FOR WINGWALL DETAILS, SEE STANDARD M-601-20.  
 4. VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.  
 5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".  
 6. ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE.  
 \* WHEN TWO OR MORE CONDUITS ARE LAID SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE 1/2 INSIDE DIAMETER OR 1/2 INSIDE SPAN OR 3 FEET APART (INCLUDING WALL THICKNESS) WHICHEVER IS LESS.  
 \* ADD 0.89 x (X OR X1) (LB.) WHEN APRON IS REQUIRED.



GENERAL NOTES  
 1. FOR SIZE AND LOCATION OF CULVERTS, SEE PLANS.  
 2. ALL CONCRETE SHALL BE CLASS B.  
 3. FOOTINGS IN ROCK SHALL BE POURED OUT TO ROCK AND NOT FORMED.  
 4. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".  
 5. HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED IN A PATTERN SIMILAR TO STANDARD PLAN M-601-10 (ABOVE).  
 6. COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE WORK UNLESS THE STEEL QUANTITIES ARE LISTED IN THE PLANS.

### CDOT M-601-10 - HEADWALL DETAIL

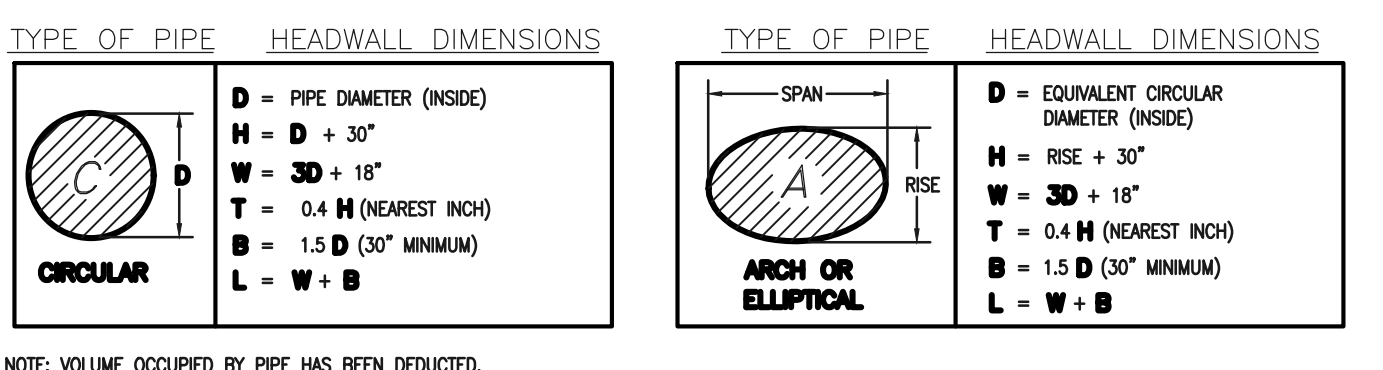
### CDOT M-601-20 WINGWALL DETAIL



QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)  
 SEE M-601-10 FOR REINFORCING DETAILS.

PIPE TYPE	MATERIAL	DIAMETER (AND EQUIVALENT DIAMETER) (INCHES)													
		18	24	30	36	42	48	54	60						
CIRCULAR	RCP	1.0	1.3	1.5	2.0	2.0	2.7	2.8	3.6	4.6	6.0				
	CMP OR PLASTIC	1.1	1.4	1.6	2.1	2.2	3.0	3.0	4.0	5.3	6.8				
ELLIPTICAL	RCP	23 x 14		30 x 19		38 x 24		45 x 29		53 x 34		60 x 38			
	CMP	0.9	1.2	1.3	1.6	1.7	2.2	2.3	2.9	3.7	3.5	4.4			
ARCH	RCP	22 x 13		29 x 18		36 x 22		43 x 27		50 x 31		58 x 36			
	CMP	0.9	1.3	1.4	1.9	1.8	2.4	2.4	3.4	3.2	4.4	3.4	5.0		

THICKNESS	MATERIAL	DIAMETER (INCHES)					
		18	24	30	36	42	48
4"	CONCRETE	0.4	0.8	1.2			
6"	CONCRETE				2.6	3.6	4.7
18"	RIPRAP	2.0	3.5	5.4	7.8	10.7	13.9



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 FILN NO. 1  
 PUBLIC EXTENDED DETENTION BASIN  
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DESIGNED BY DLG SCALE DATE 03/26/19  
 DRAWN BY DLG (H) 1"= 2' SHEET 20 OF 20  
 CHECKED BY (V) 1"= N/A JOB NO. 1116.30