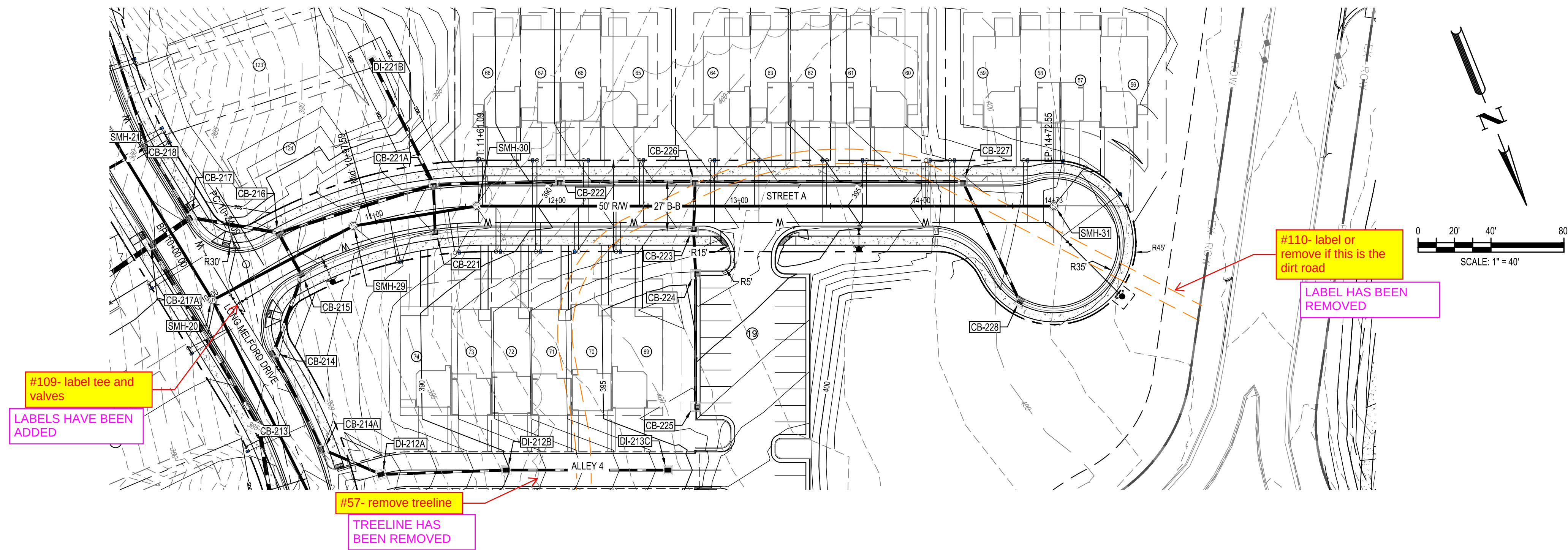
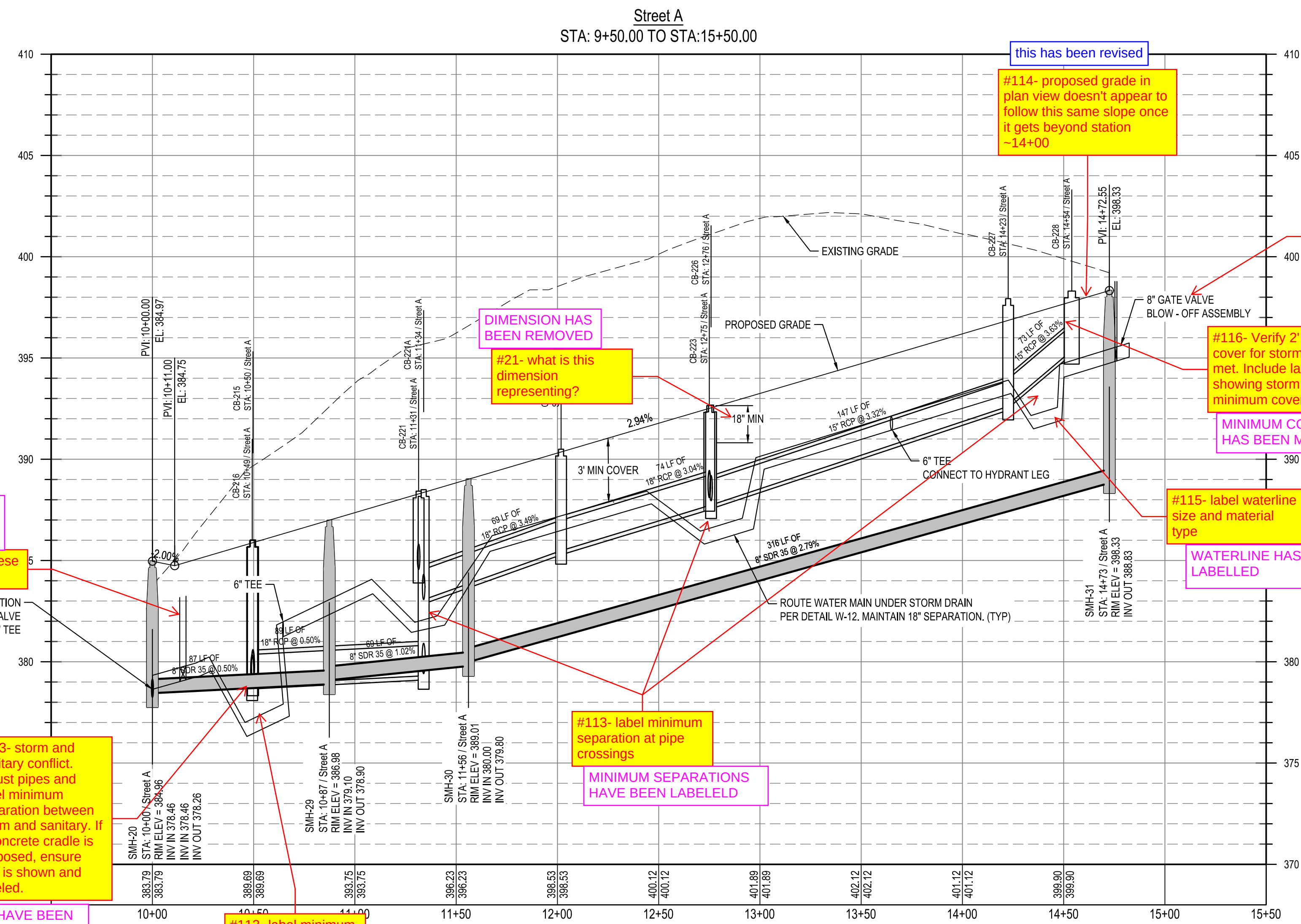




V2 - REsponse
to V1
ENGINEERING
COMMENTs on
Part 3 of 3

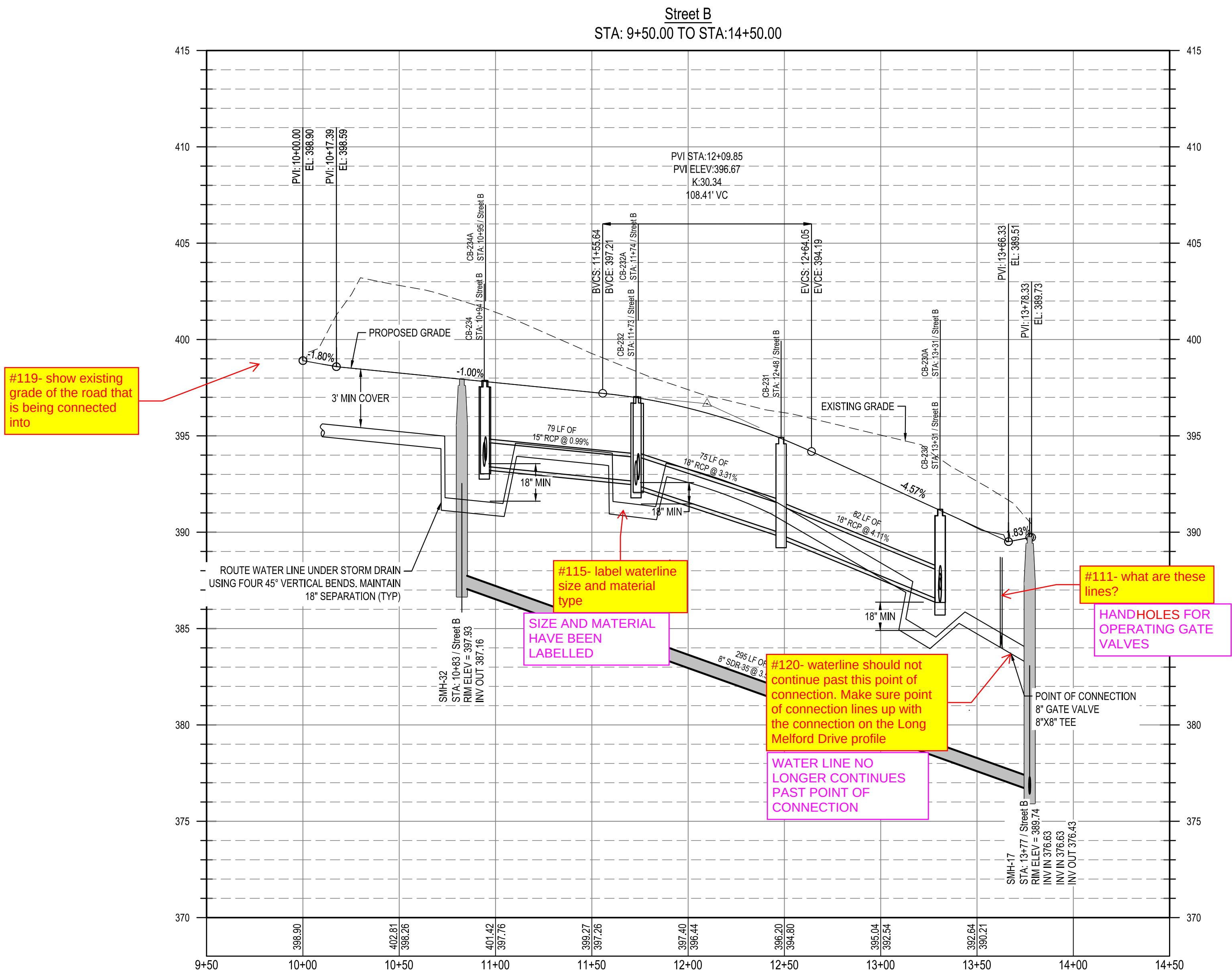
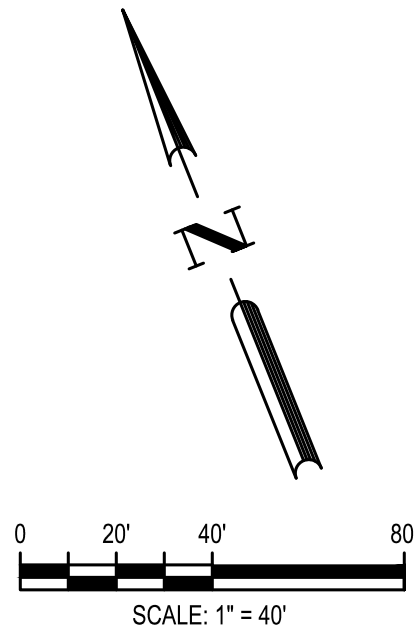
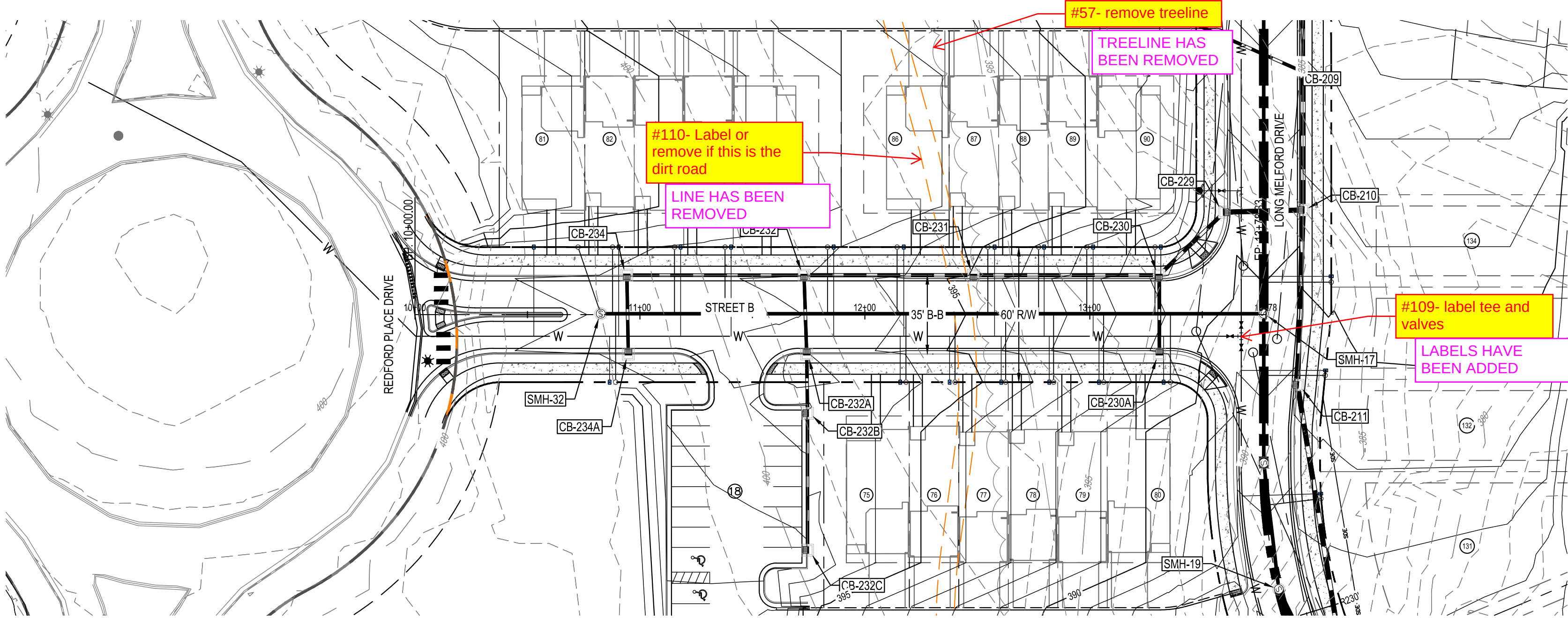
CID-23-06 - V1 -
Part 3 of 3 of plan
set



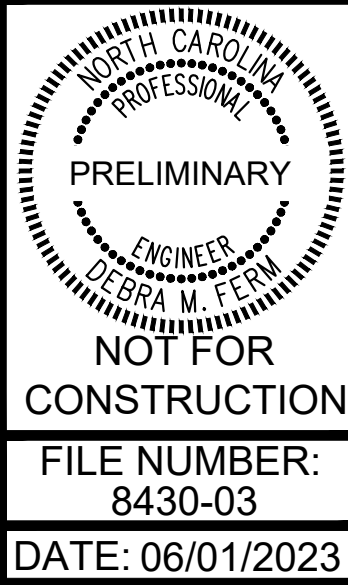
Know what's below.
Call before you dig.

BCE		5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
LENNAR CORPORATION		1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE		82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
STREET A PLAN AND PROFILE		PRELIMINARY ENGINEER FEDRA M. FERNANDEZ NOT FOR CONSTRUCTION FILE NUMBER: 8430-03 DATE: 06/01/2023 C6-0	
DESIGNED BY:	DF/CD	REV	04/03/2023
DRAWN BY:	DF/JWM	REV	06/01/2023
REVIEWED BY:	DF	REV	06/01/2023
PER TOWN OF ROLESVILLE COMMENT		INITIAL SUBMITTAL	

\\browngay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C6-0 ROAD PLAN AND PROFILE.dwg Layout: C6-1 STREET B PLAN AND PROFILE Plotted: 6/1/2023 3:28:22 PM



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FILE NUMBER: 8430-03
DATE: 06/01/2023

C6-1

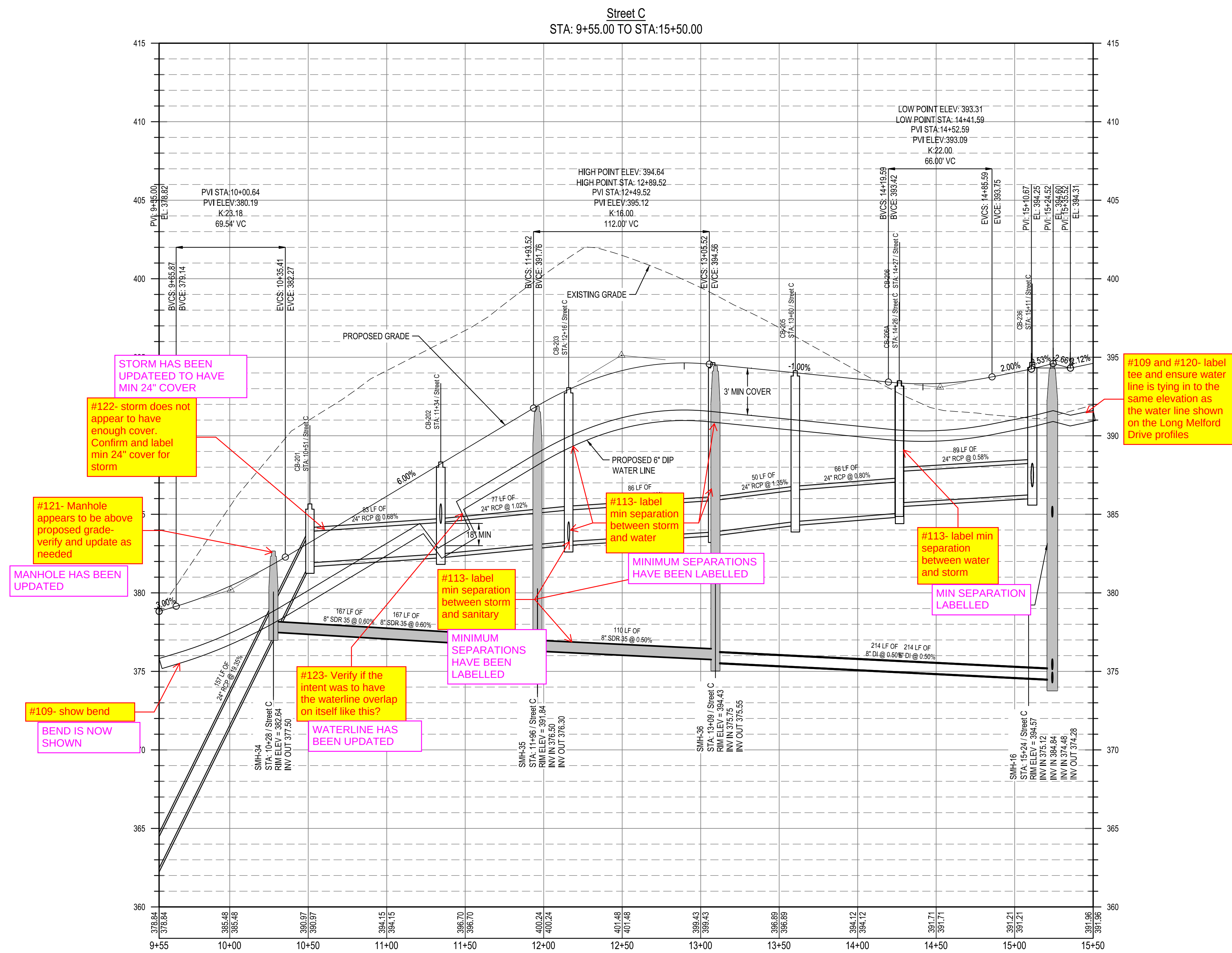
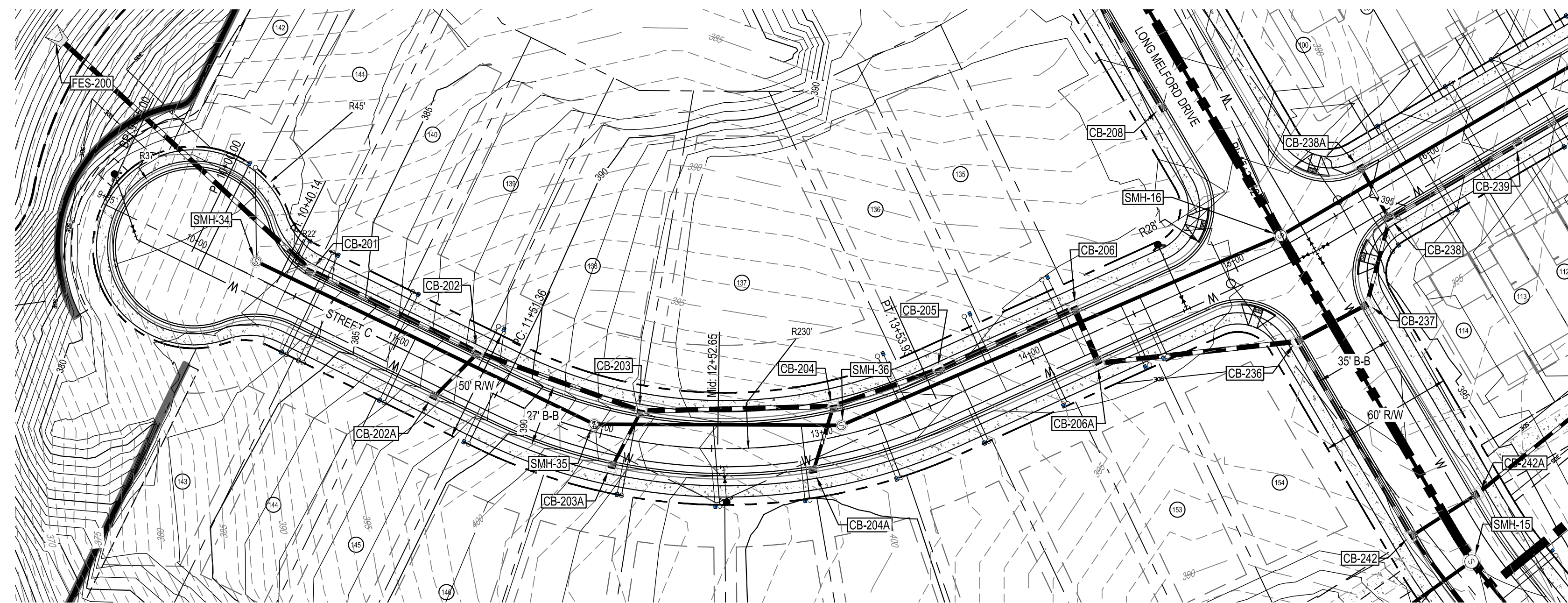
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

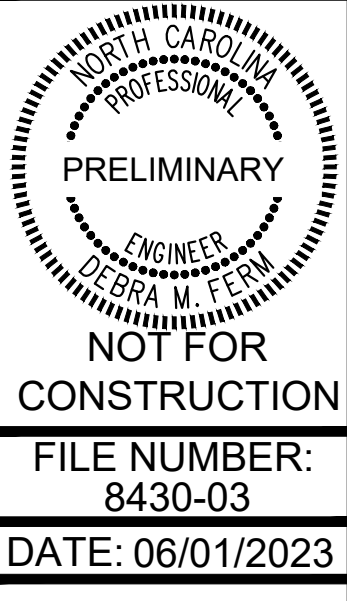
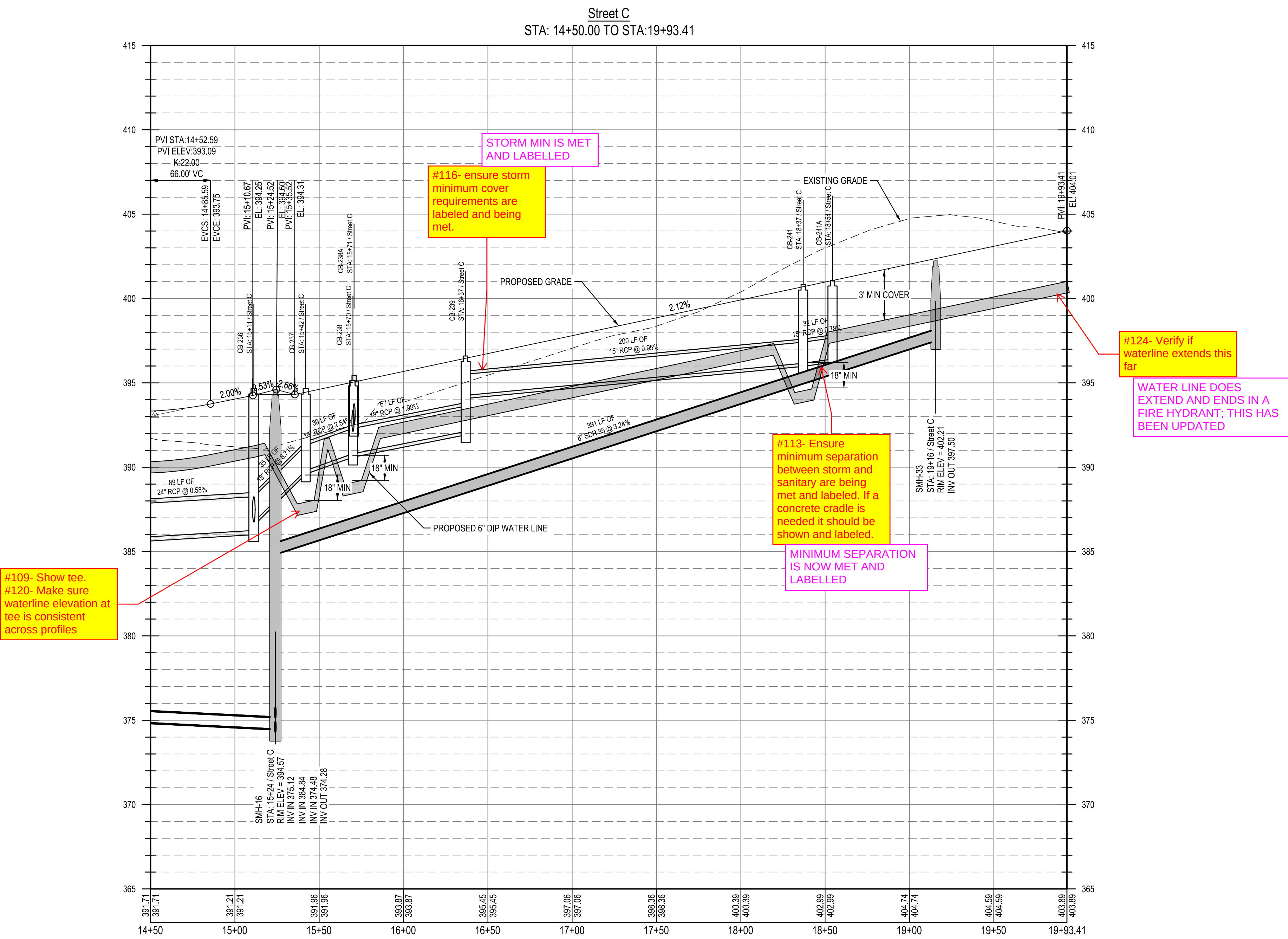
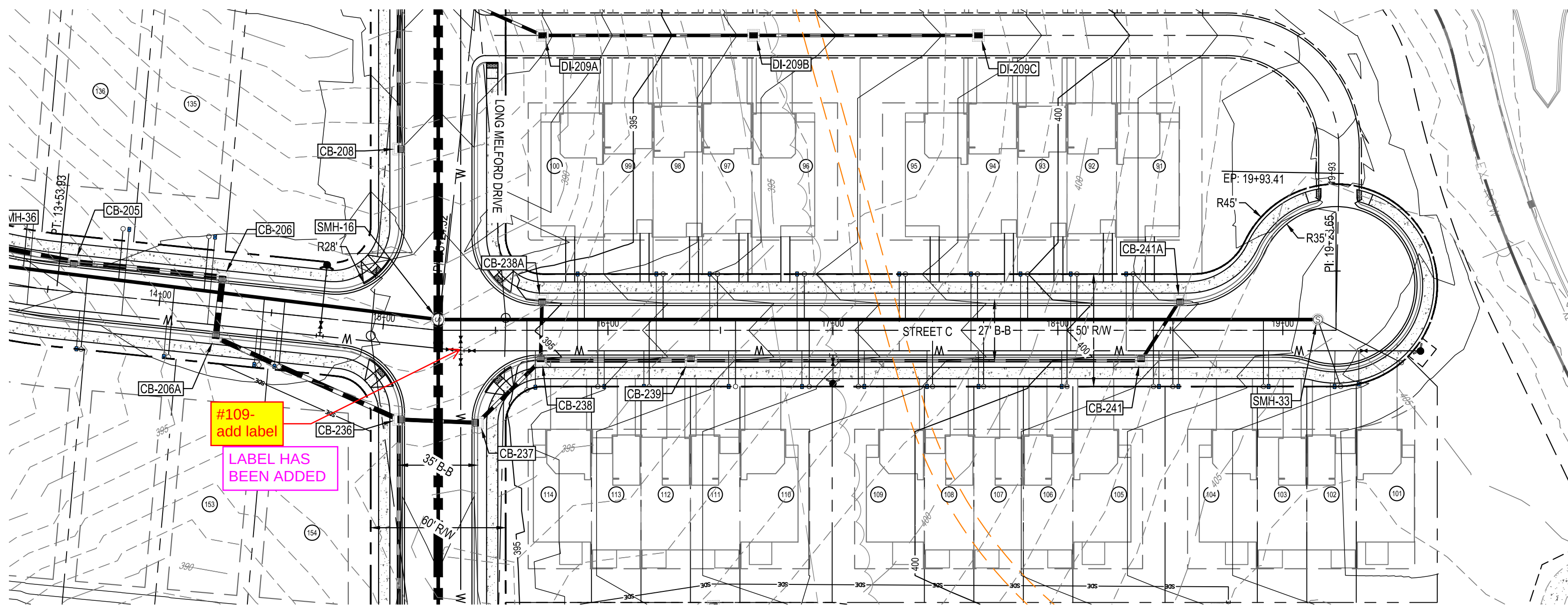
BCE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

REV	DATE	DESCRIPTION
06/01/2023	06/01/2023	PER TOWN OF ROLESVILLE COMMENT
04/03/2023	04/03/2023	INITIAL SUBMITTAL



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FILE NUMBER:
8430-03
DATE: 06/01/2023

C6-3

STREET C PLAN AND
PROFILE (2 OF 2)

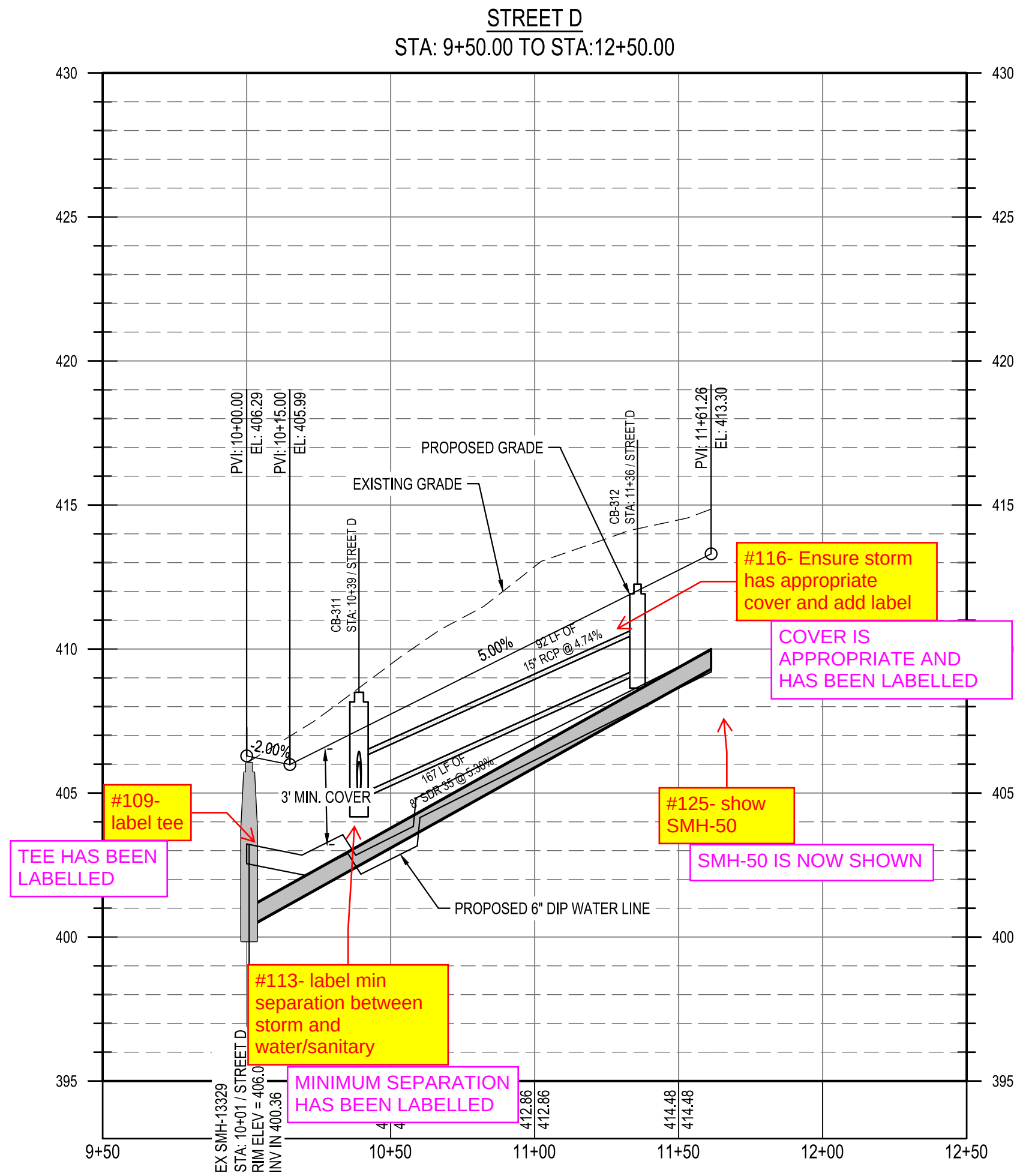
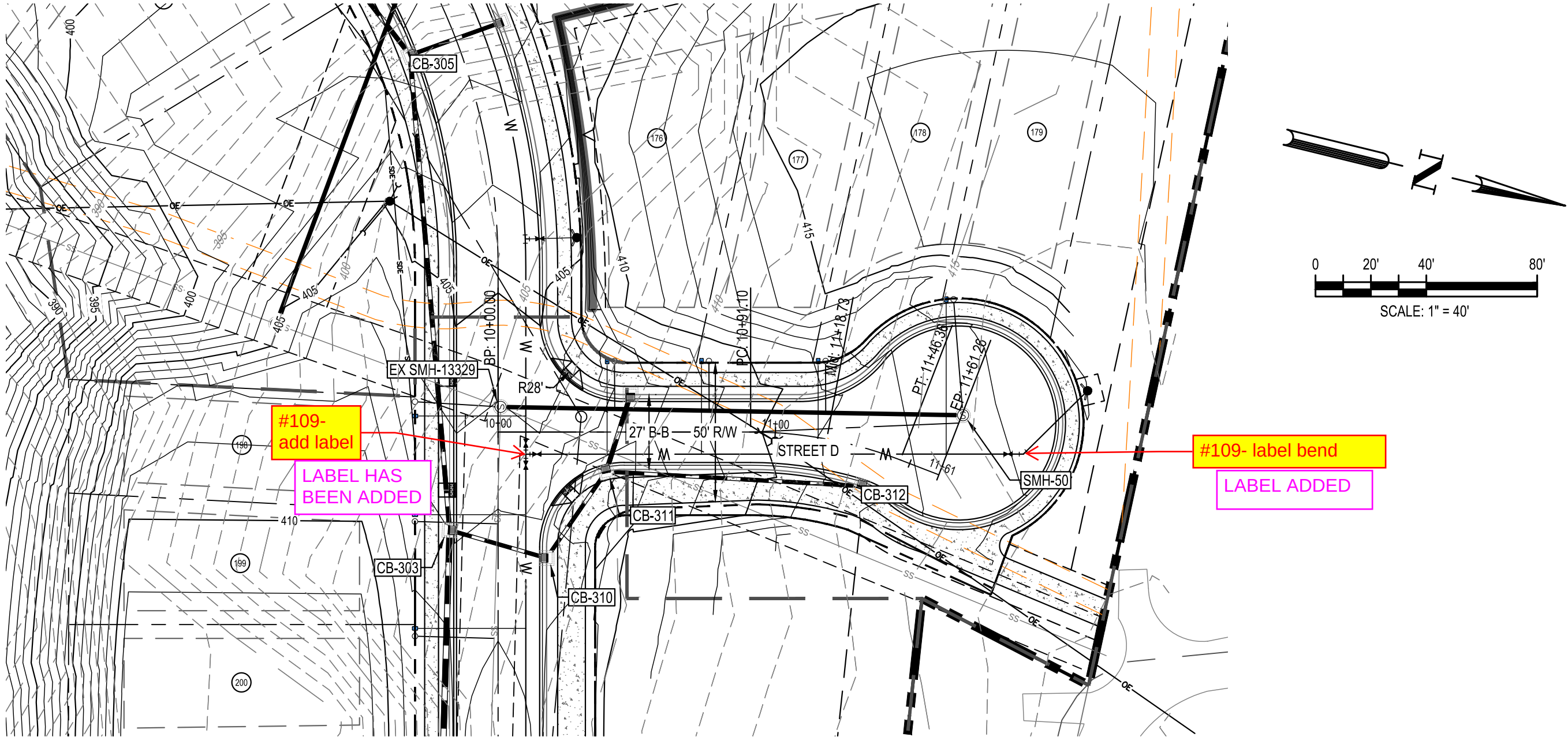
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

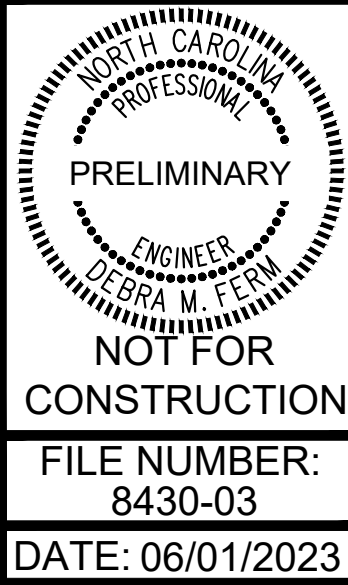
BCE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

REV	04/03/2023	INITIAL SUBMITTAL
06/01/2023	PER TOWN OF ROLESVILLE COMMENT	



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FILE NUMBER: 8430-03
DATE: 06/01/2023

C6-4

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

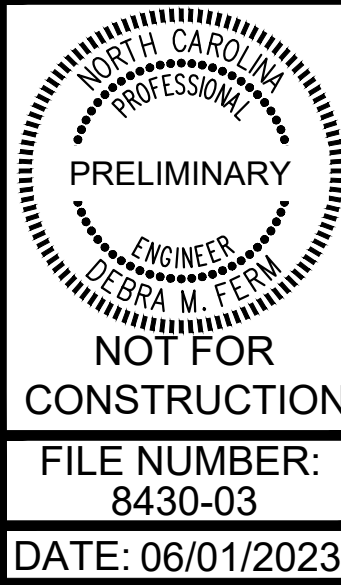
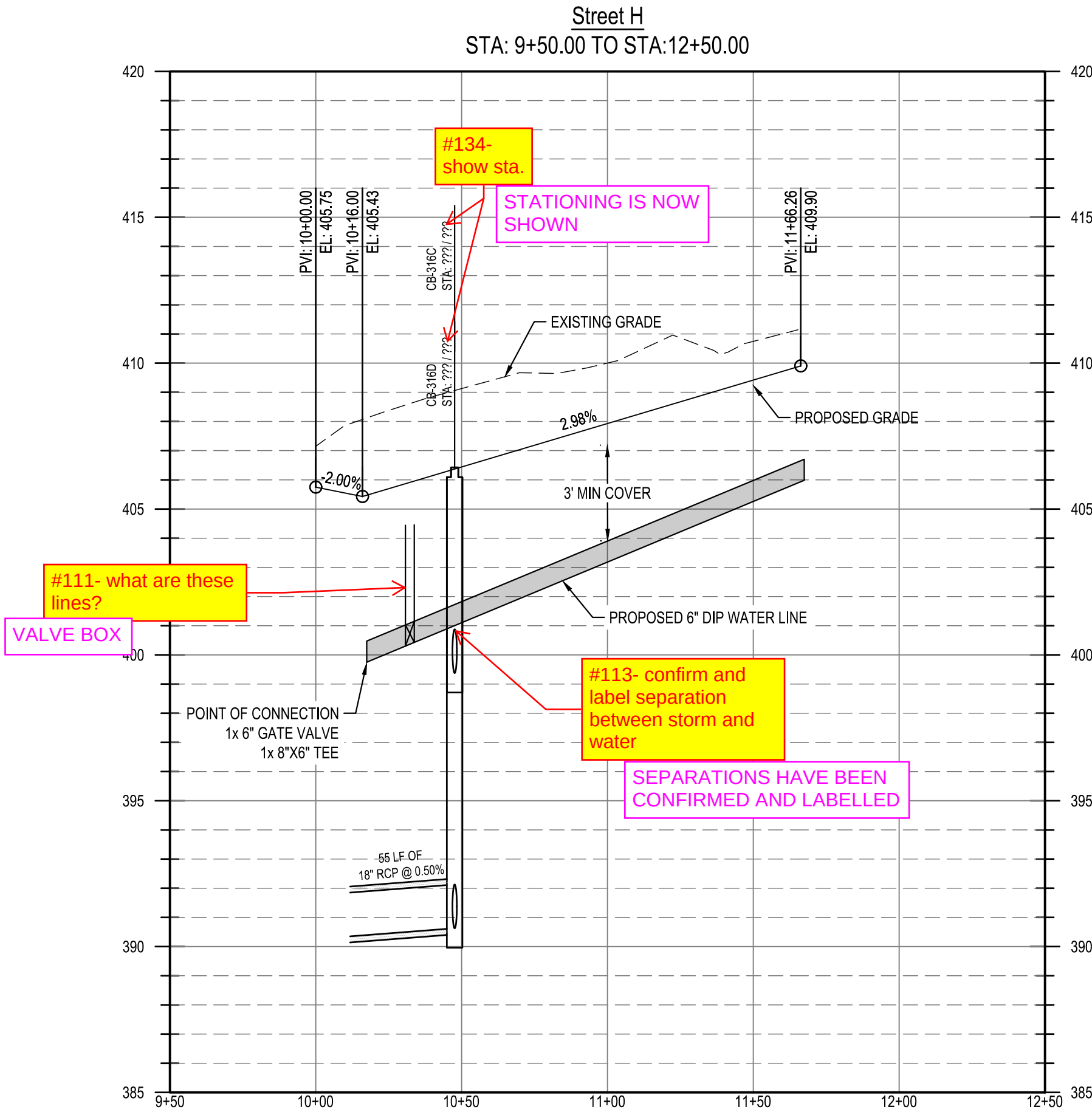
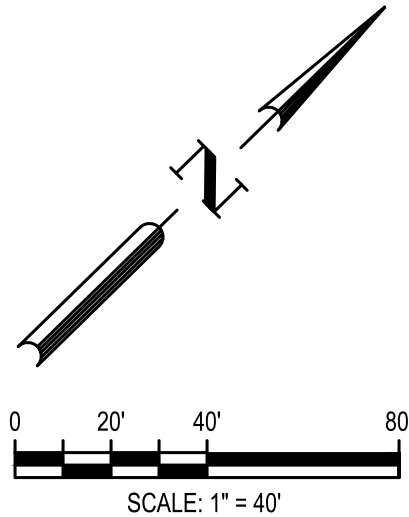
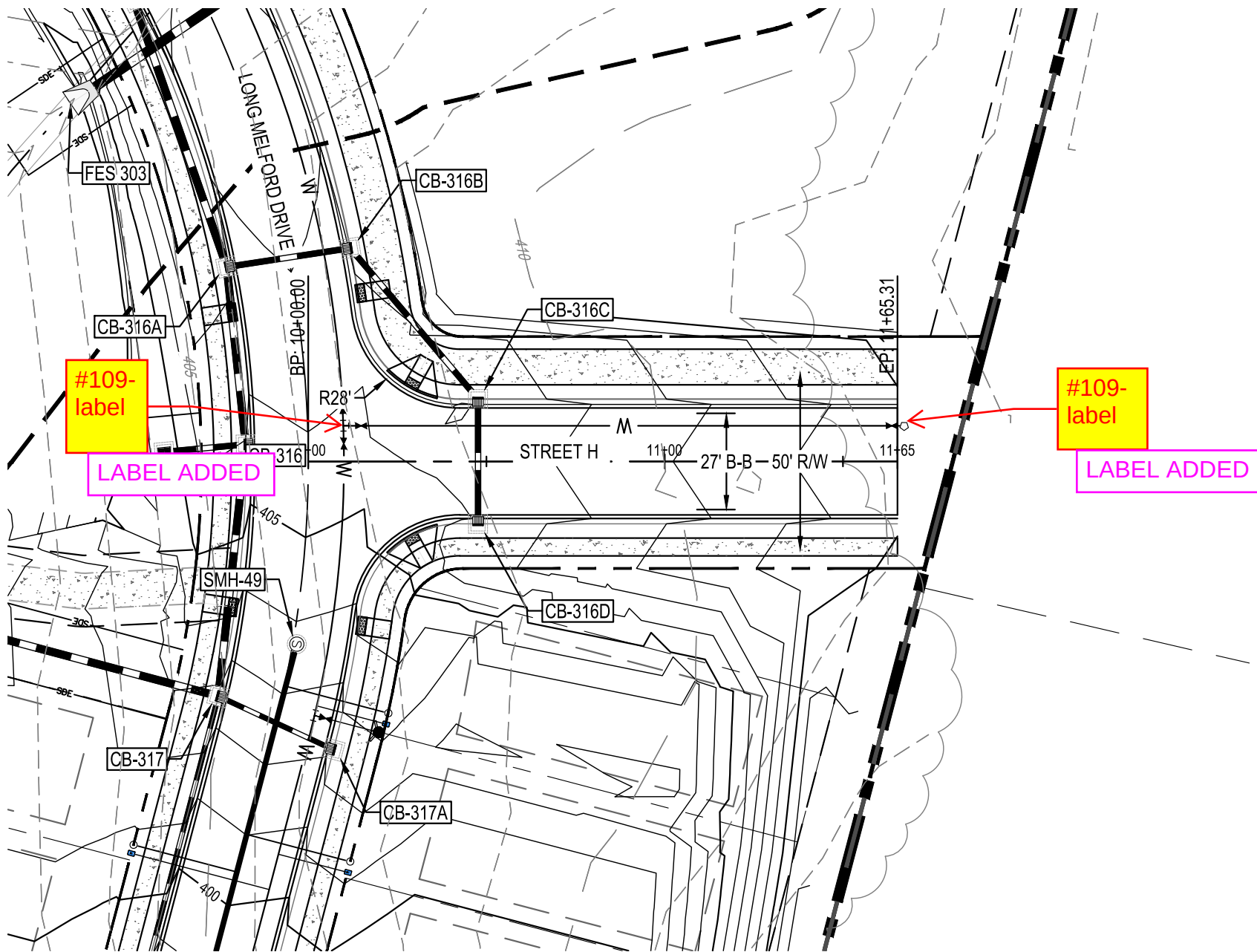
LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

BCE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

REV 04/03/2023
06/01/2023
PER TOWN OF ROLESVILLE COMMENT

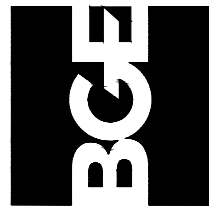
INITIAL SUBMITTAL



STREET H PLAN AND
PROFILE

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

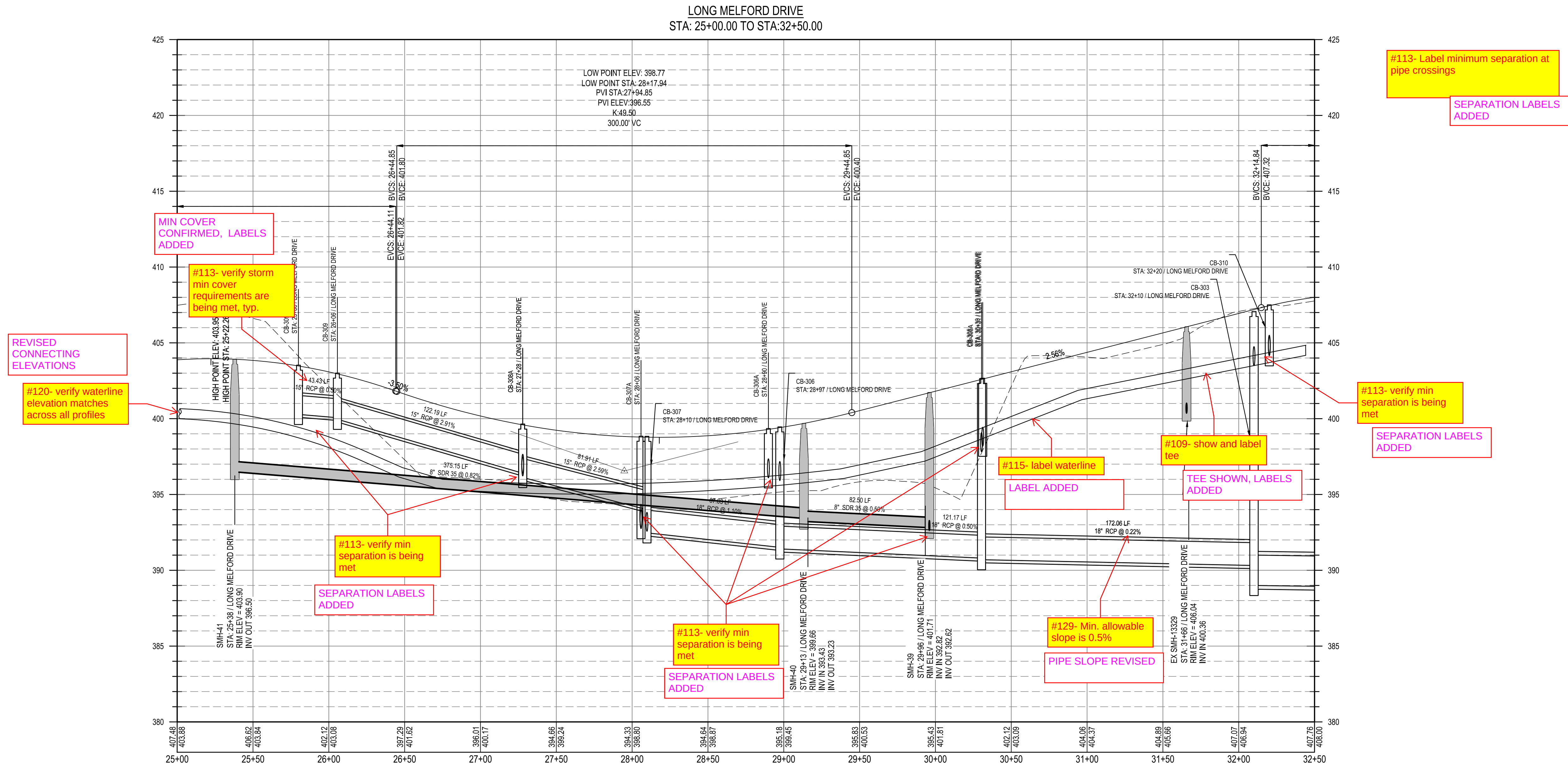
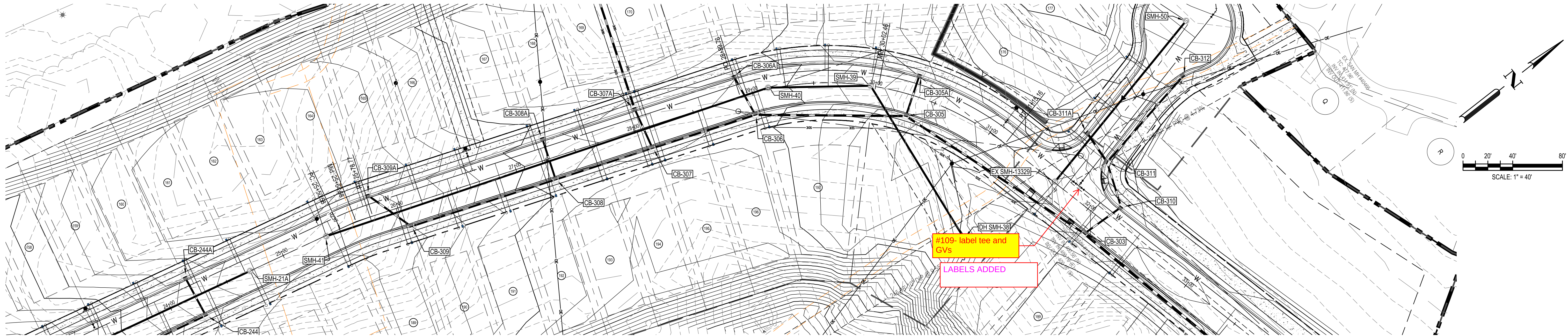


5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

REV	04/03/2023	INITIAL SUBMITTAL
06/01/2023	PER TOWN OF ROLESVILLE COMMENT	

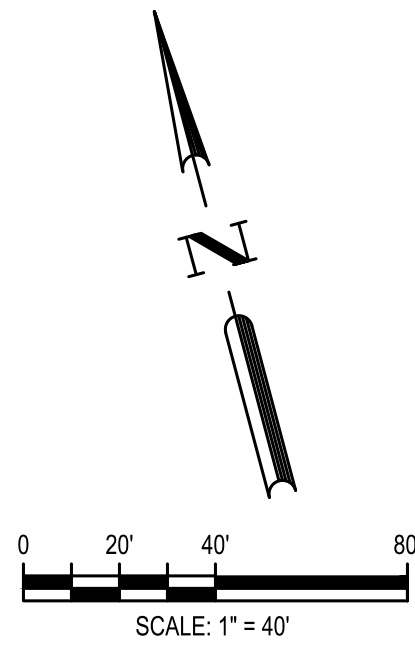
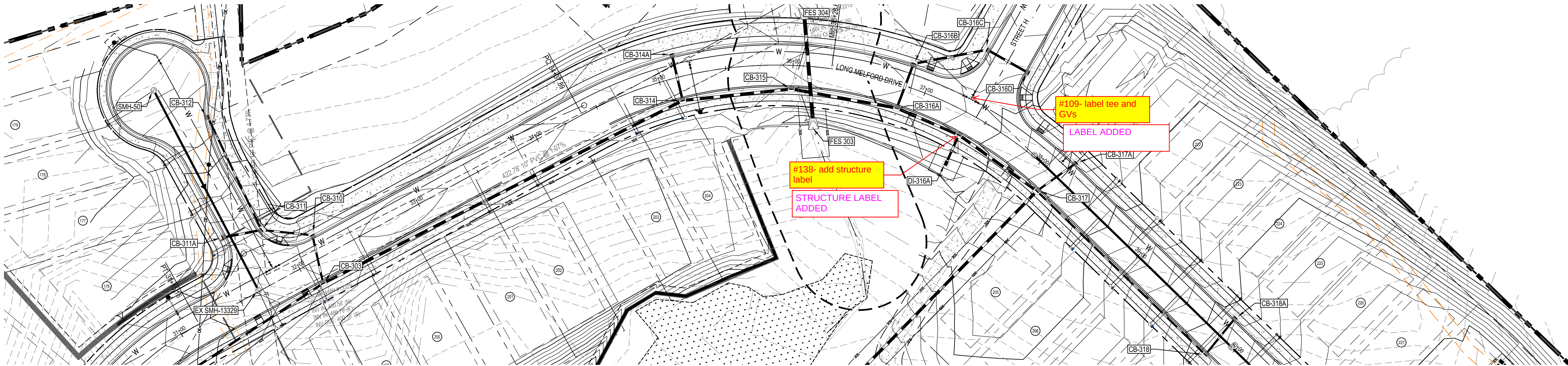
\\browgway.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - DWG\PlanSheets\On-Site\CB-9 LONG MELFORD DRIVE PLAN AND PROFILE (3 OF 5) Plotted: 6/1/2023 3:31:22 PM



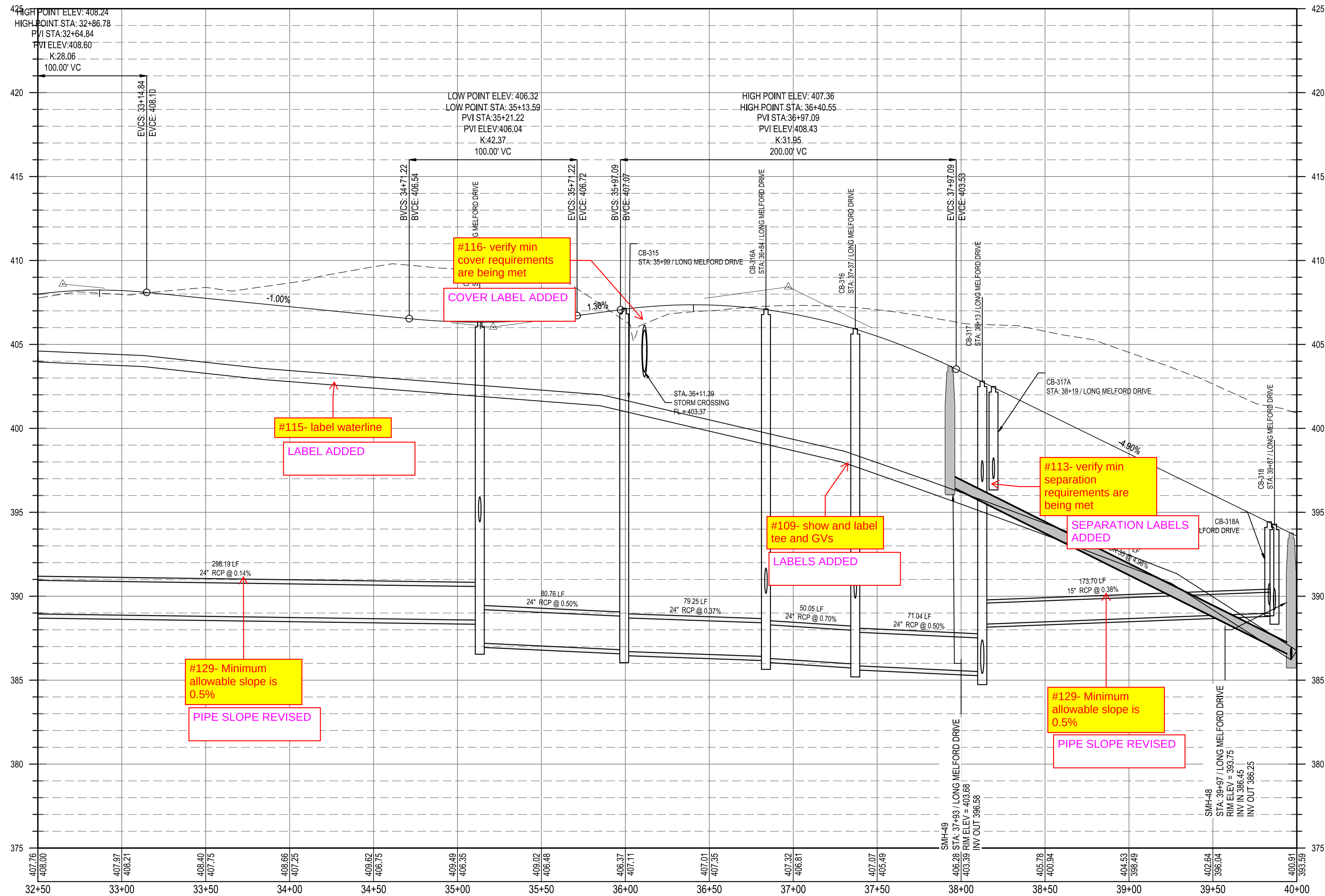
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LENNAR CORPORAION		1100 PERMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE		82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
LONG MELFORD DRIVE PLAN AND PROFILE (3 OF 5)		PRELIMINARY ENGINEER DEBRA M. FERN NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03		DATE: 06/01/2023	
C6-11		REV 04/03/2023 DESIGNED BY: DF/CD DRAWN BY: DF/JWM REVIEWED BY: DF	
06/01/2023		PER TOWN OF ROLESVILLE COMMENT	
REV		INITIAL SUBMITTAL	

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LONG MELFORD DRIVE
STA: 32+50.00 TO STA:40+00.00



#113- Label minimum separation at
pipe crossings

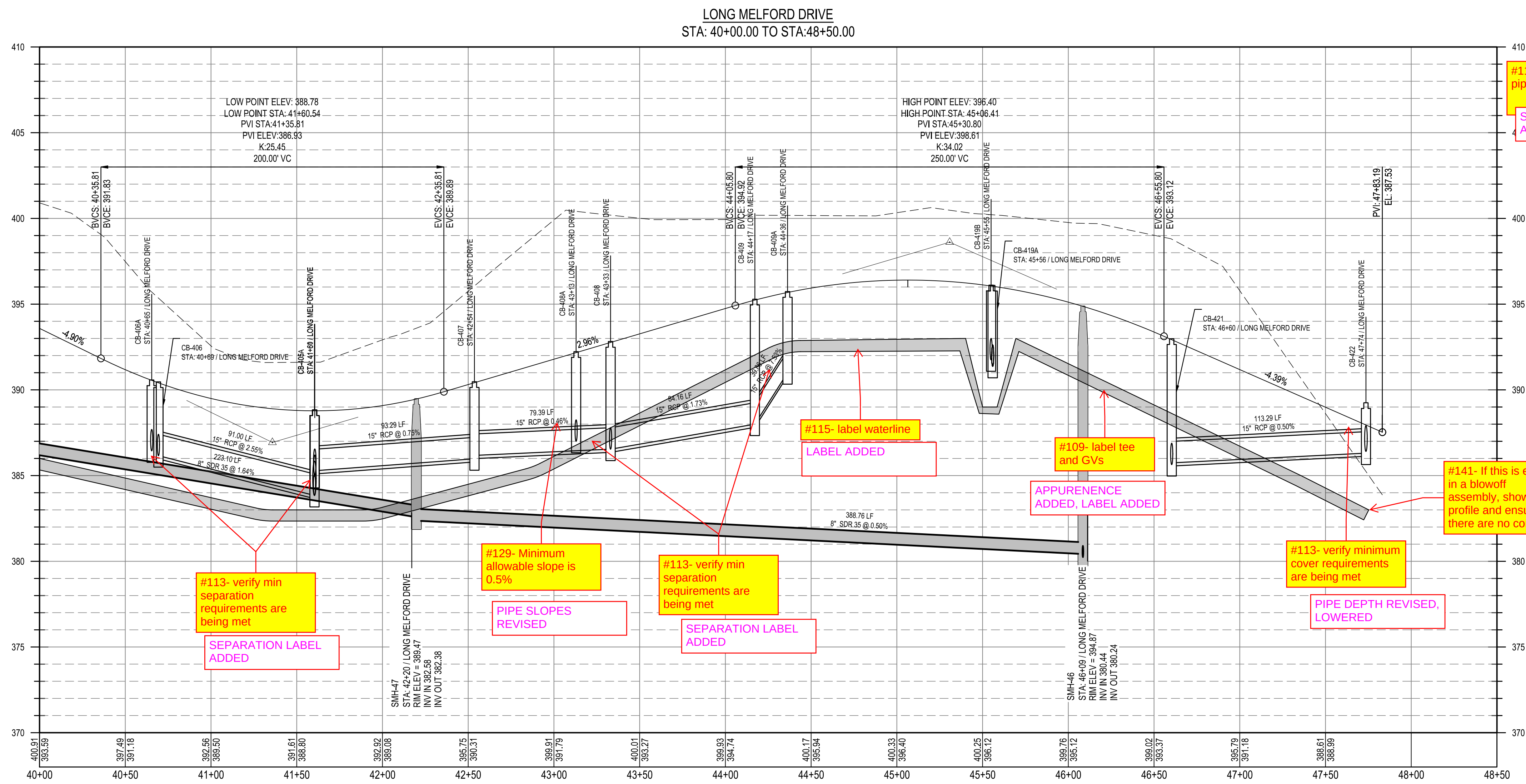
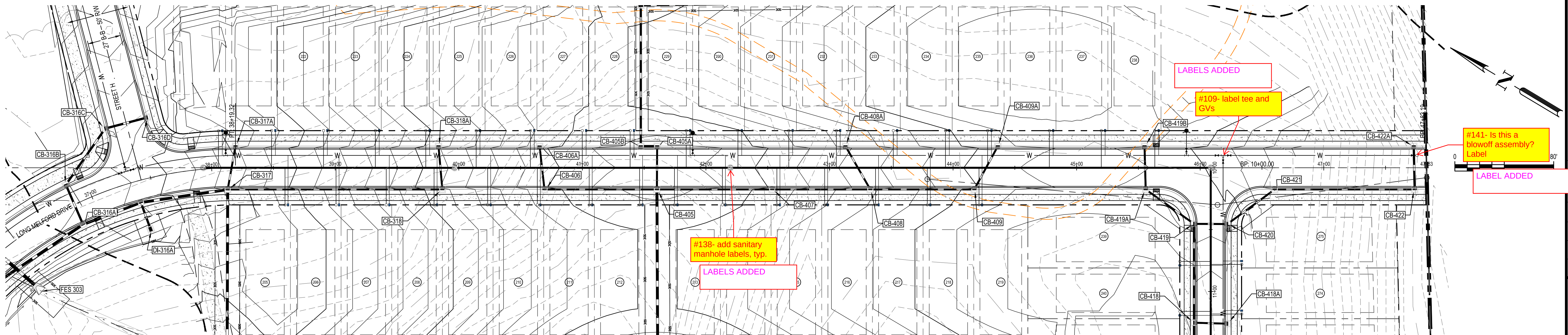
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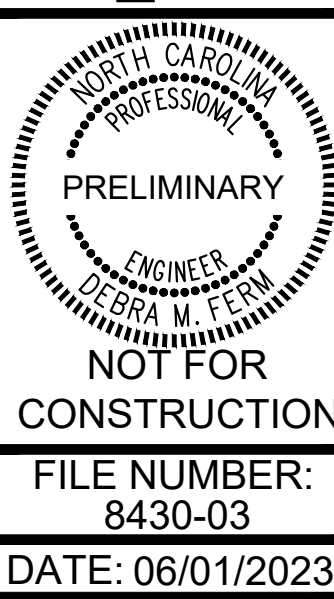
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LENNAR CORPORAION		1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE		82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
LONG MELFORD DRIVE PLAN AND PROFILE (4 OF 5)		PRELIMINARY ENGINEER FEDRA M. FERNANDEZ NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03		DATE: 06/01/2023	
C6-12		PER TOWN OF ROLESVILLE COMMENT 06/01/2023 REV 04/03/2023 INITIAL SUBMITTAL	

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C6-13

LONG MELFORD DRIVE PLAN
AND PROFILE (5 OF 5)

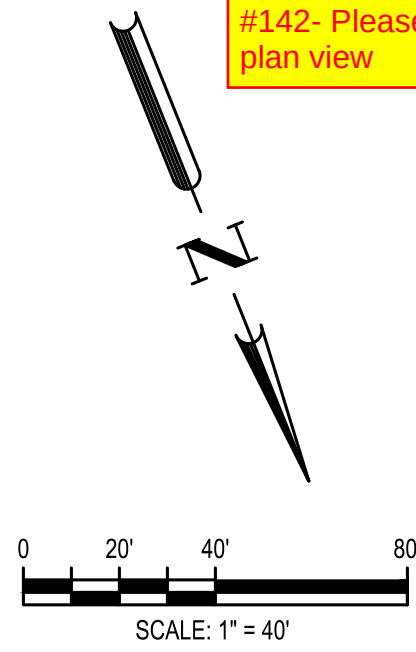
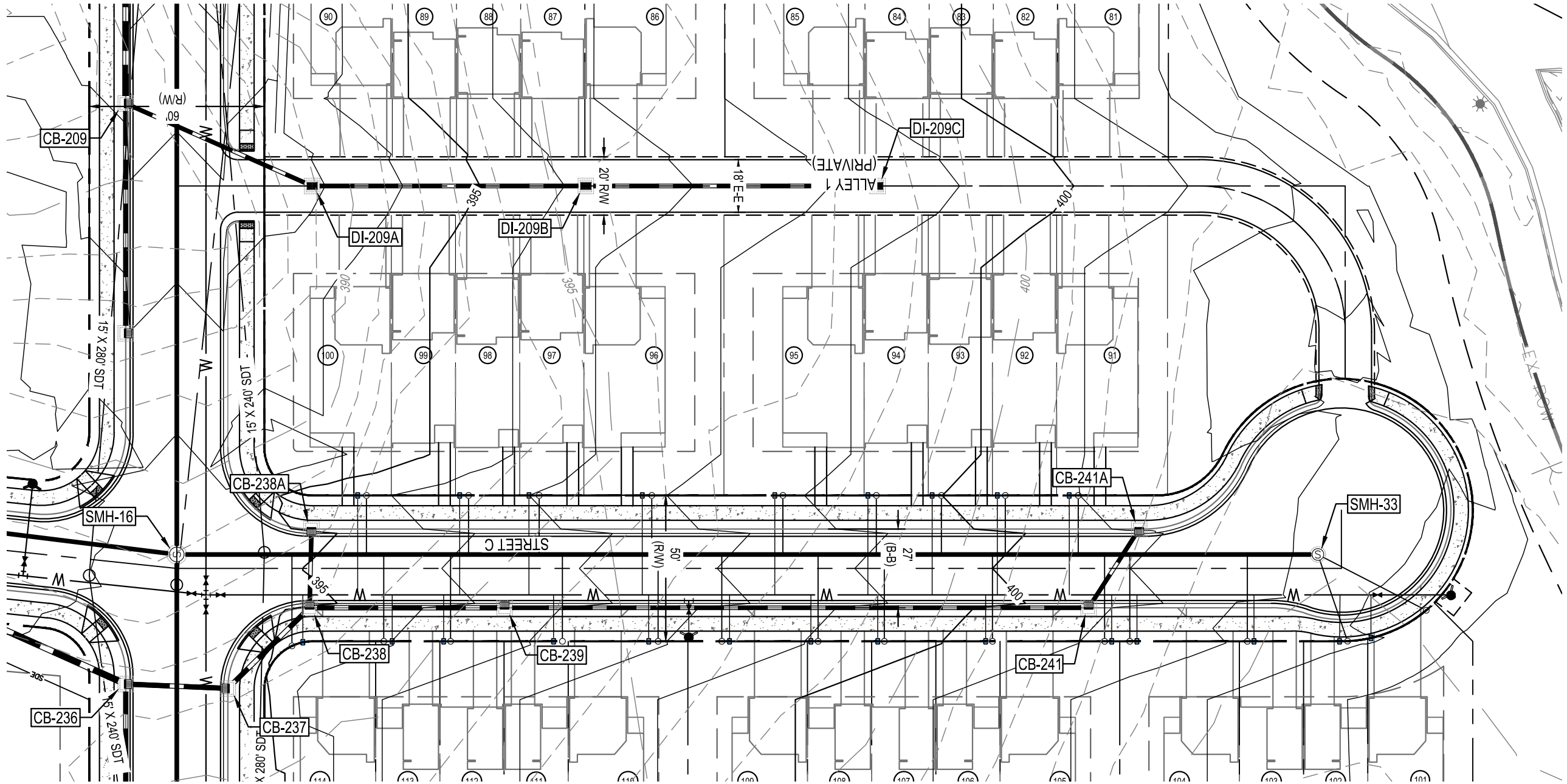
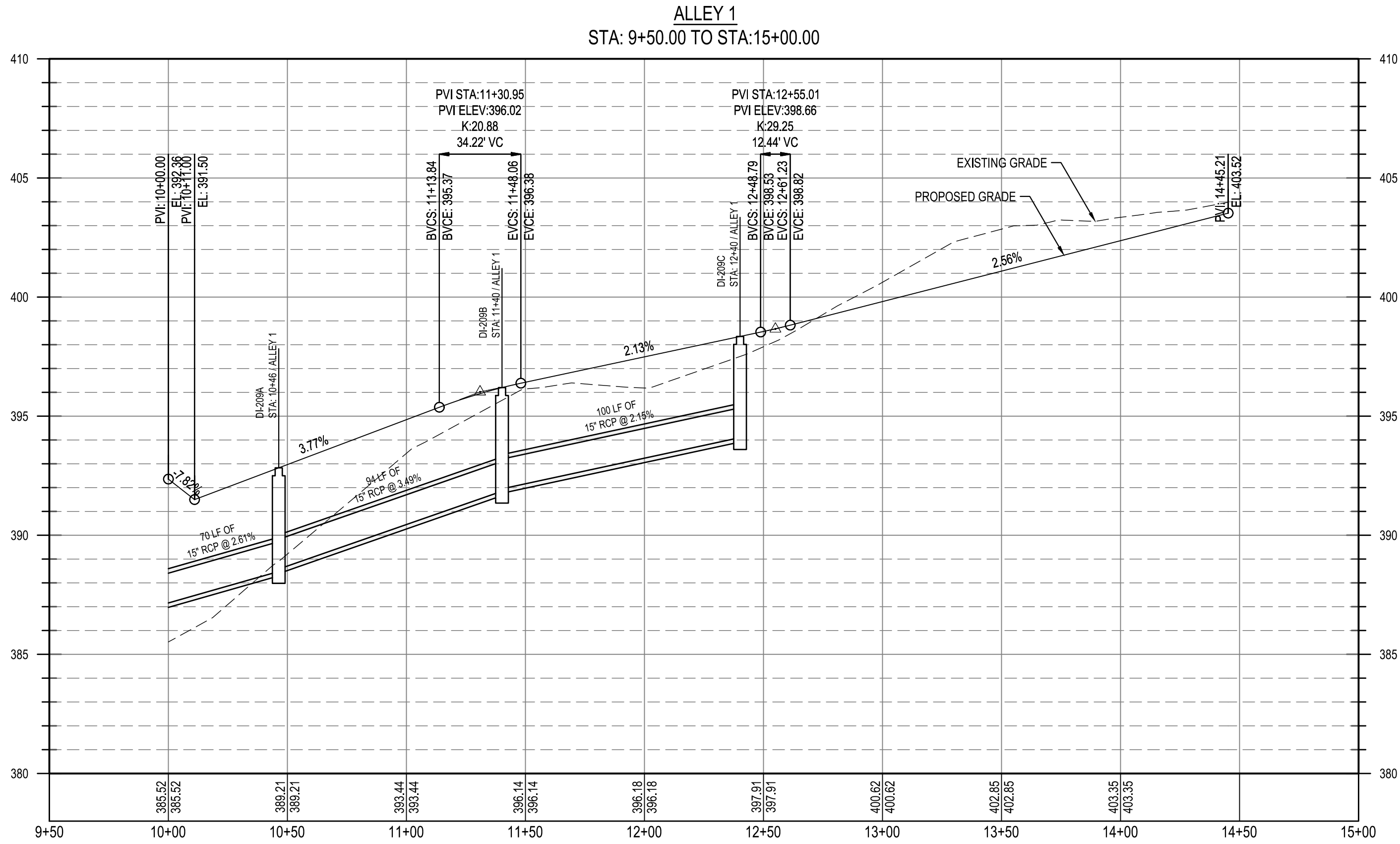
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



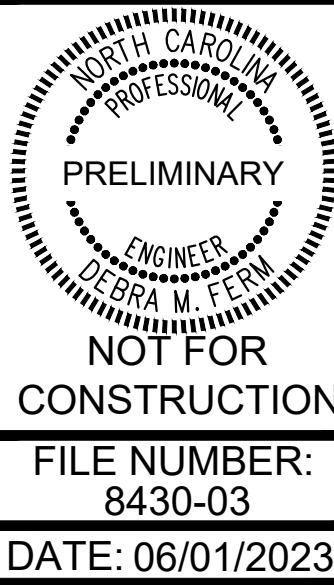
DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

REV 04/03/2023 INITIAL SUBMITTAL
06/01/2023 PER TOWN OF ROLESVILLE COMMENT



#142- Please show stationing on plan view

Station now showing



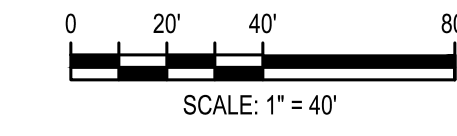
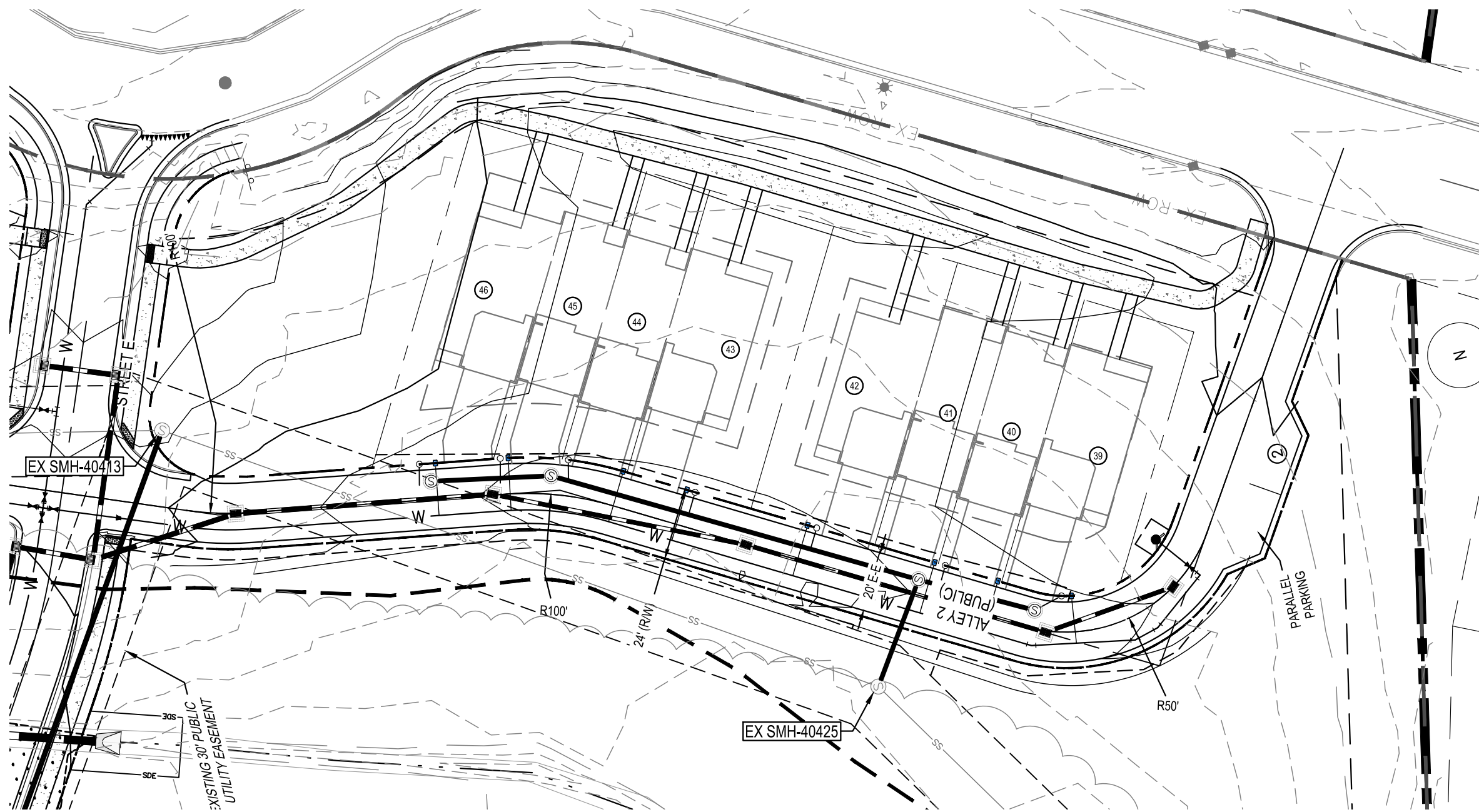
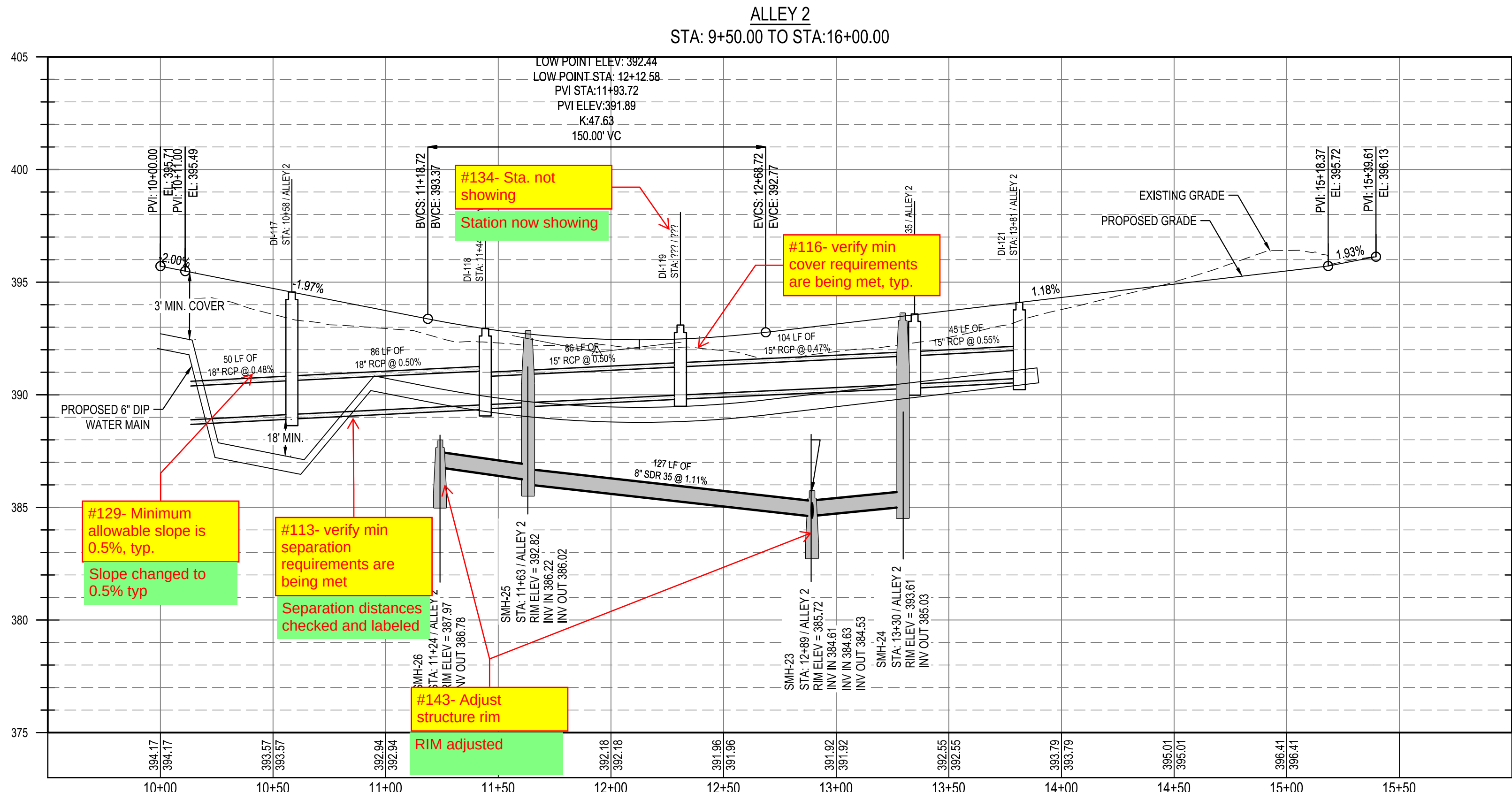
ALLEY 1 PLAN AND PROFILE

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

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NC LICENSE #C-4397

DESIGNED BY:					
DRAWN BY:					
REVIEWED BY:					
					
				06/01/2023	PER TOWN OF ROLESVILLE COMMENT
				04/03/2023	INITIAL SUBMITTAL
				REV	



#142- Please show stationing on plan view

#138- Label structures in plan view

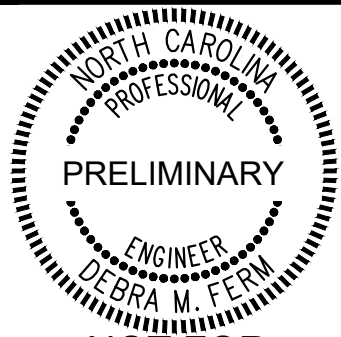
Station now showing

Structures now shown

#113- Label minimum separation at pipe crossings



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CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 06/01/2023

C6-15

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CORPORAION

PARKER RIDGE
82 SCHOOL STREET

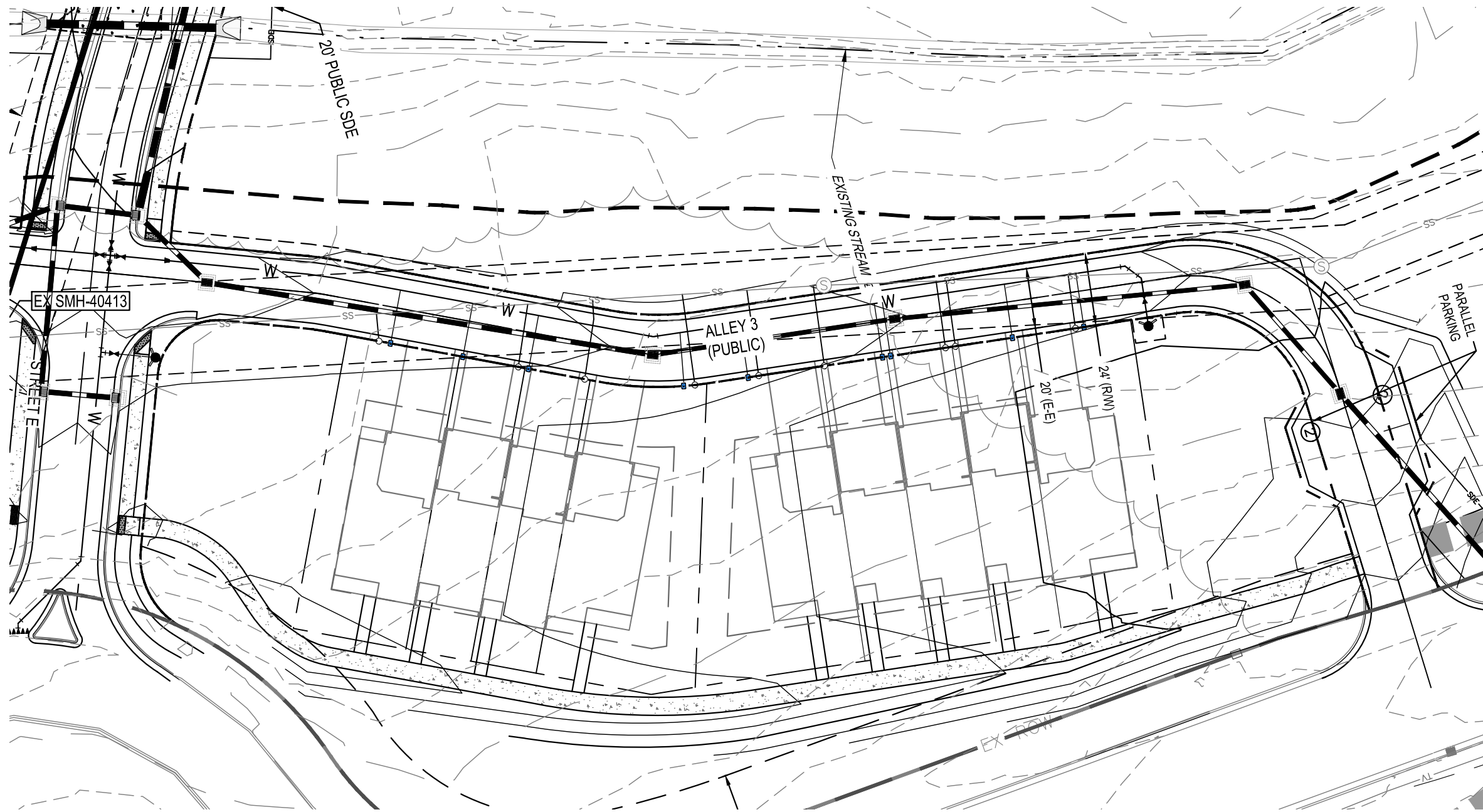
1100 PERIMETER PARK DRIVE, SUITE 112
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5440 WADE PARK BLVD, SUITE 102
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06/01/2023	PER TOWN OF ROLESVILLE COMMENT

REV	04/03/2023	INITIAL SUBMITTAL
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#142- Please show stationing on plan view

Stationing now shown

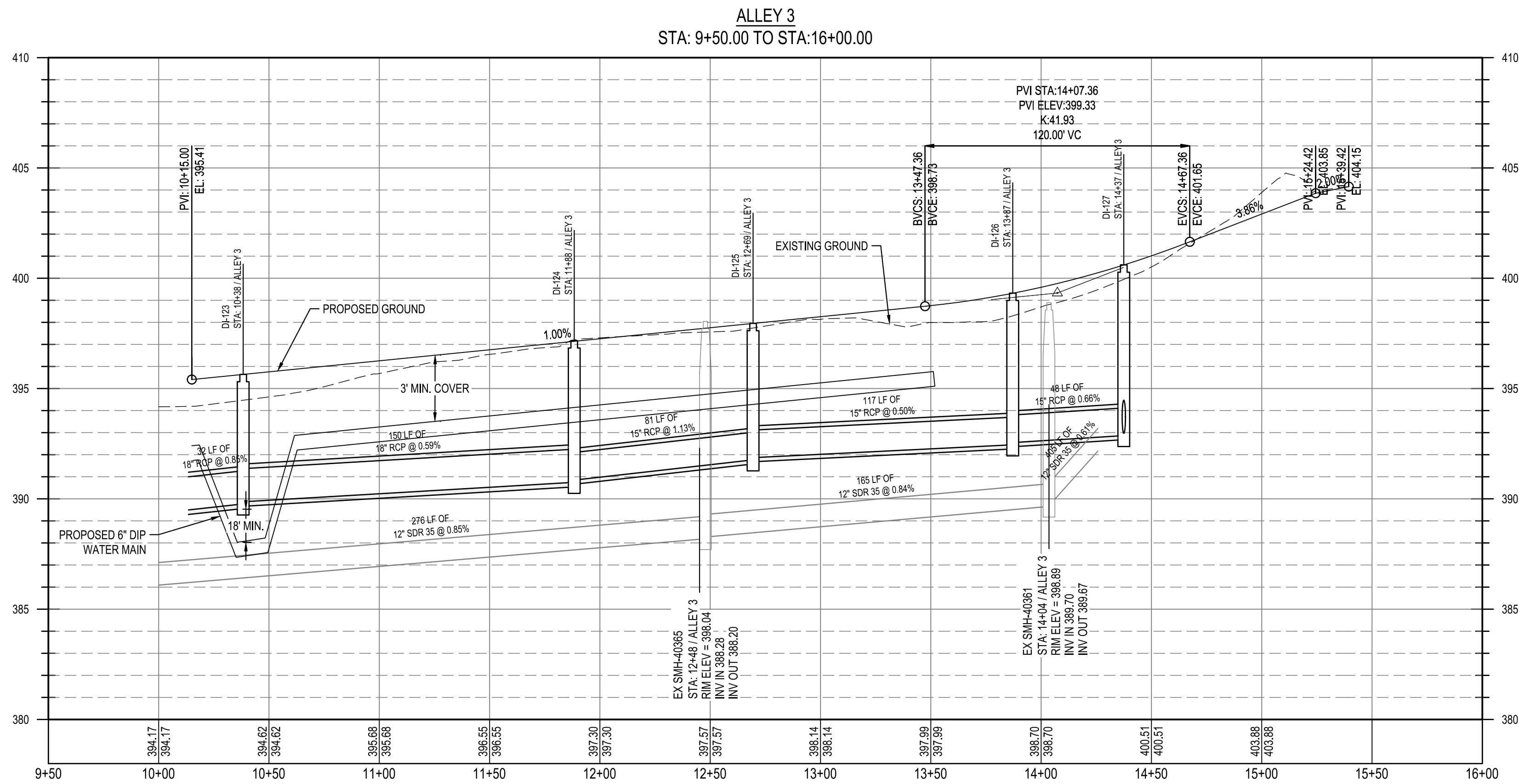
#138- Label structures in plan view

Structures now shown

0 20' 40' 80'

SCALE: 1" = 40'

N



#113- Label minimum separation at pipe crossings

minimum separation at pipe crossings shown



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NORTH CAROLINA PROFESSIONAL ENGINEER PEDRA M. FERNANDEZ

PRELIMINARY

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 06/01/2023

ALLEY 3 PLAN AND PROFILE

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

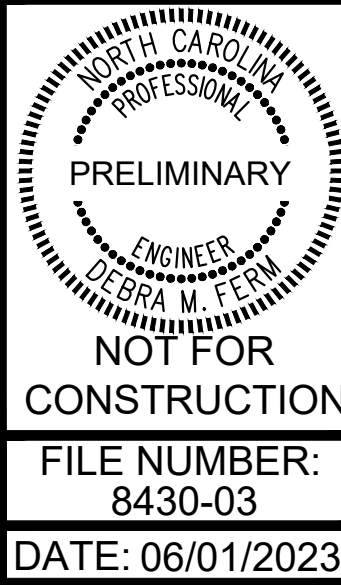
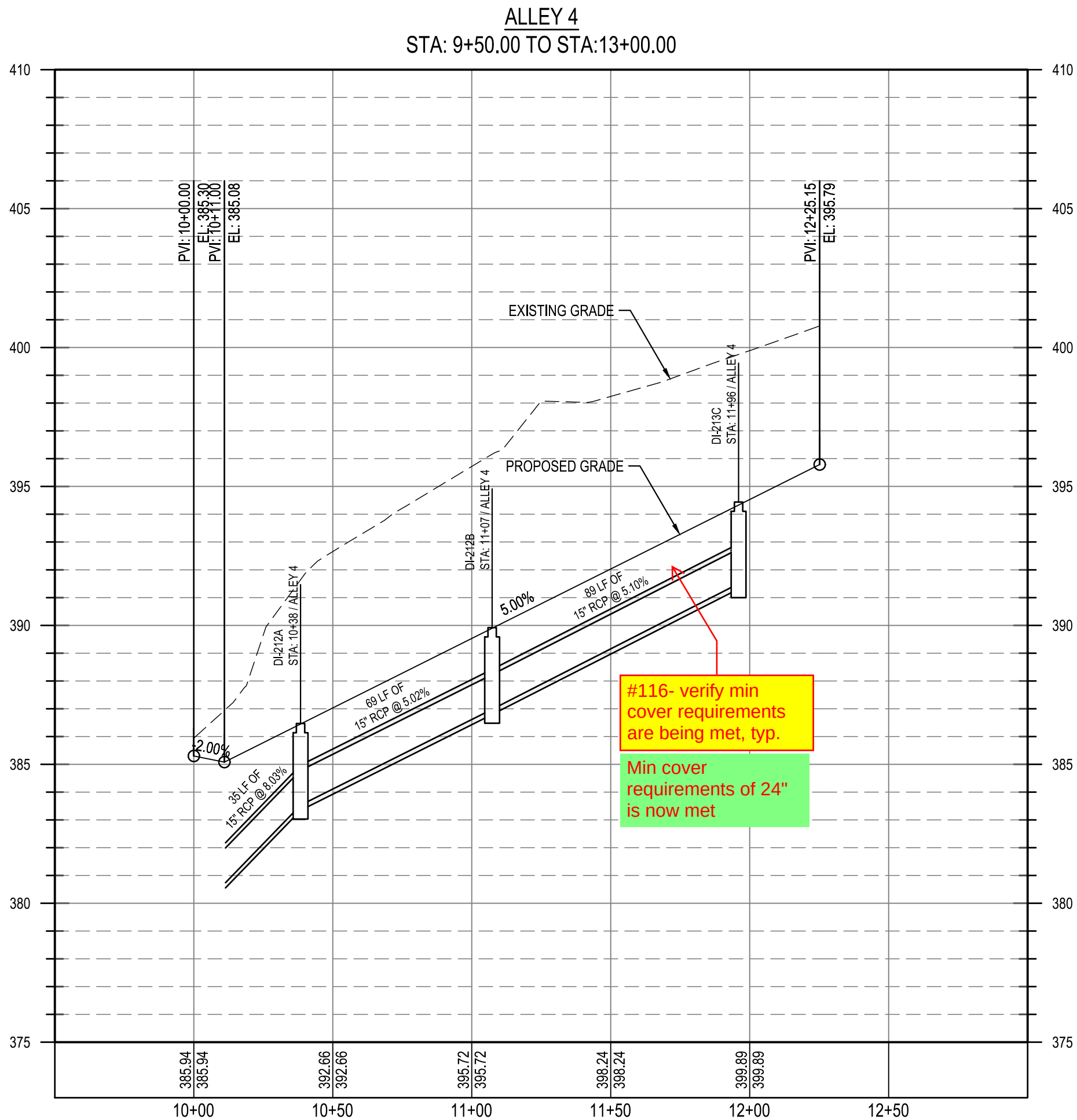
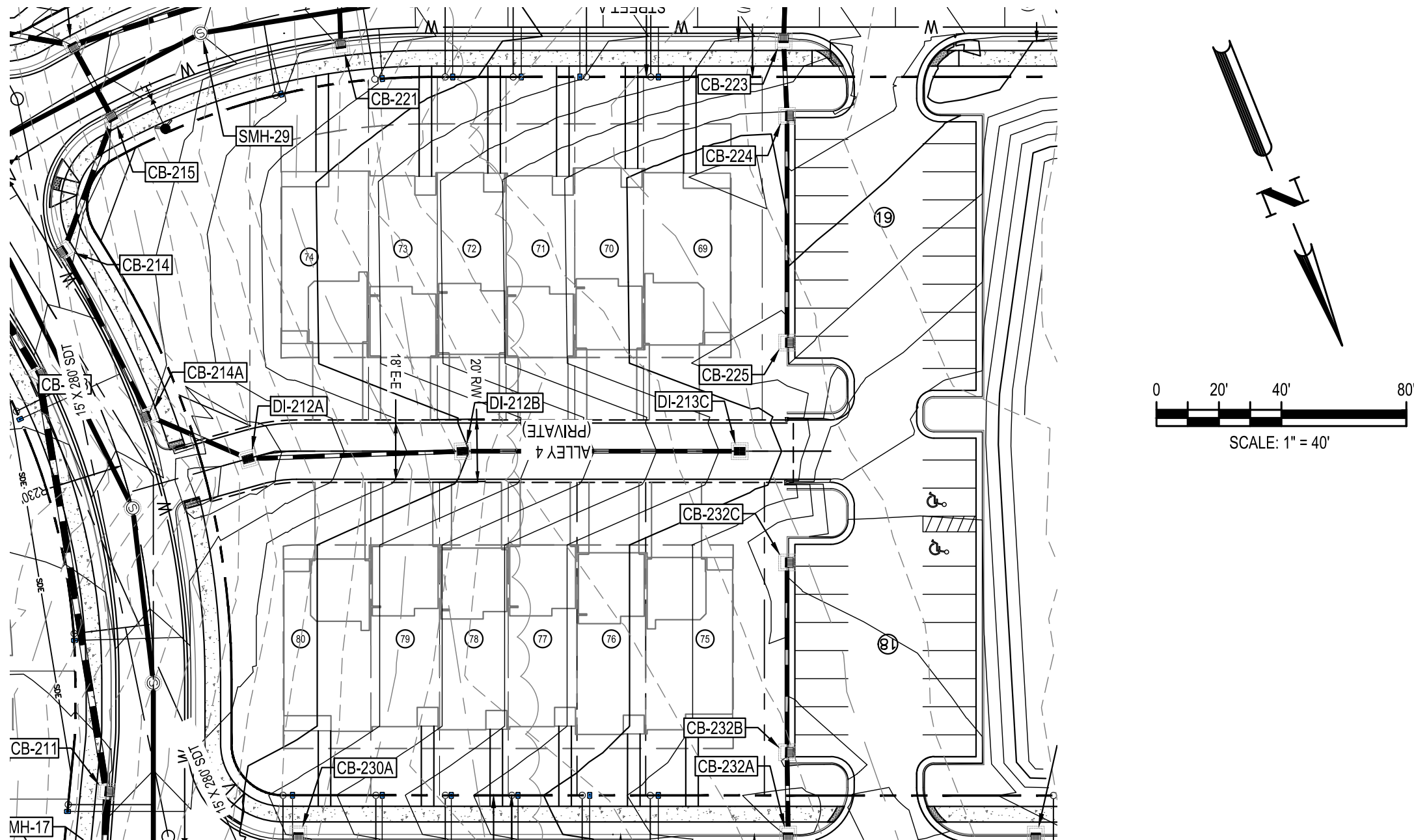
LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

BCE

5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

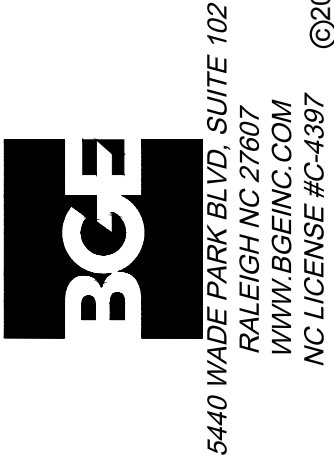
REV	04/03/2023	INITIAL SUBMITTAL
06/01/2023	PER TOWN OF ROLESVILLE COMMENT	



ALLEY 4 PLAN AND PROFILE

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

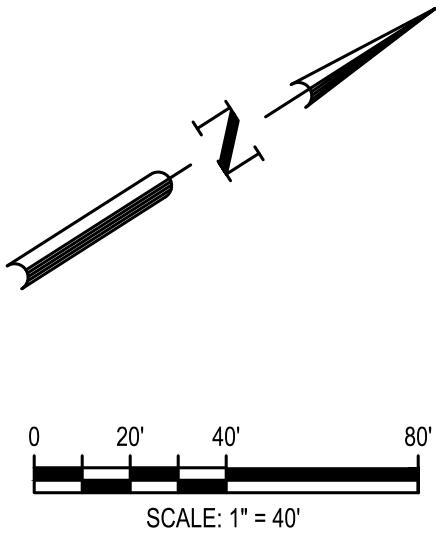
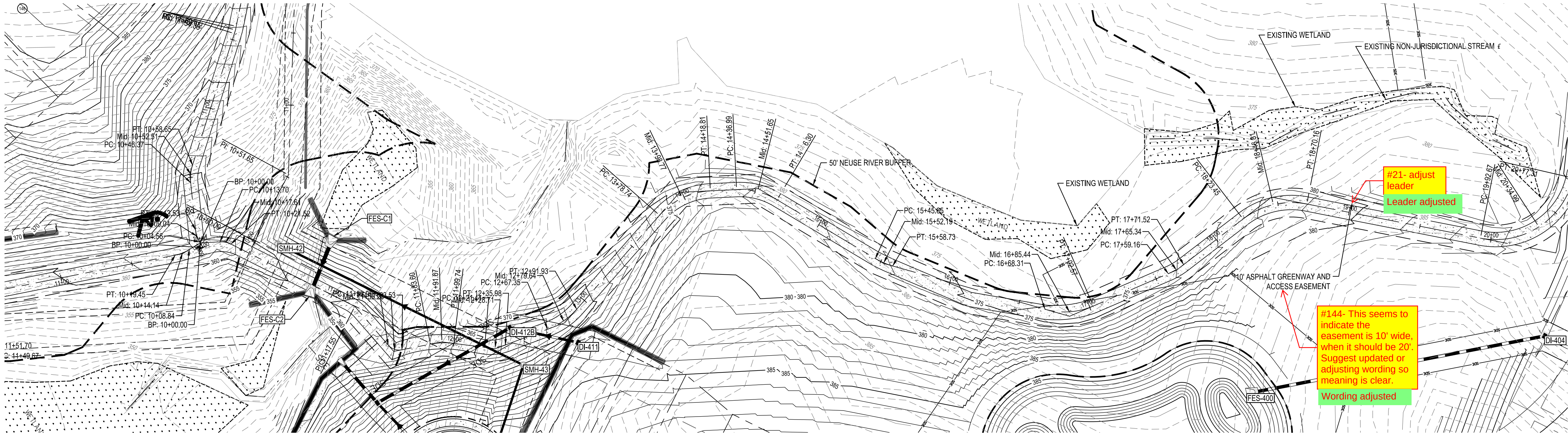
LENNAR
CORPORAION
1100 PERMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

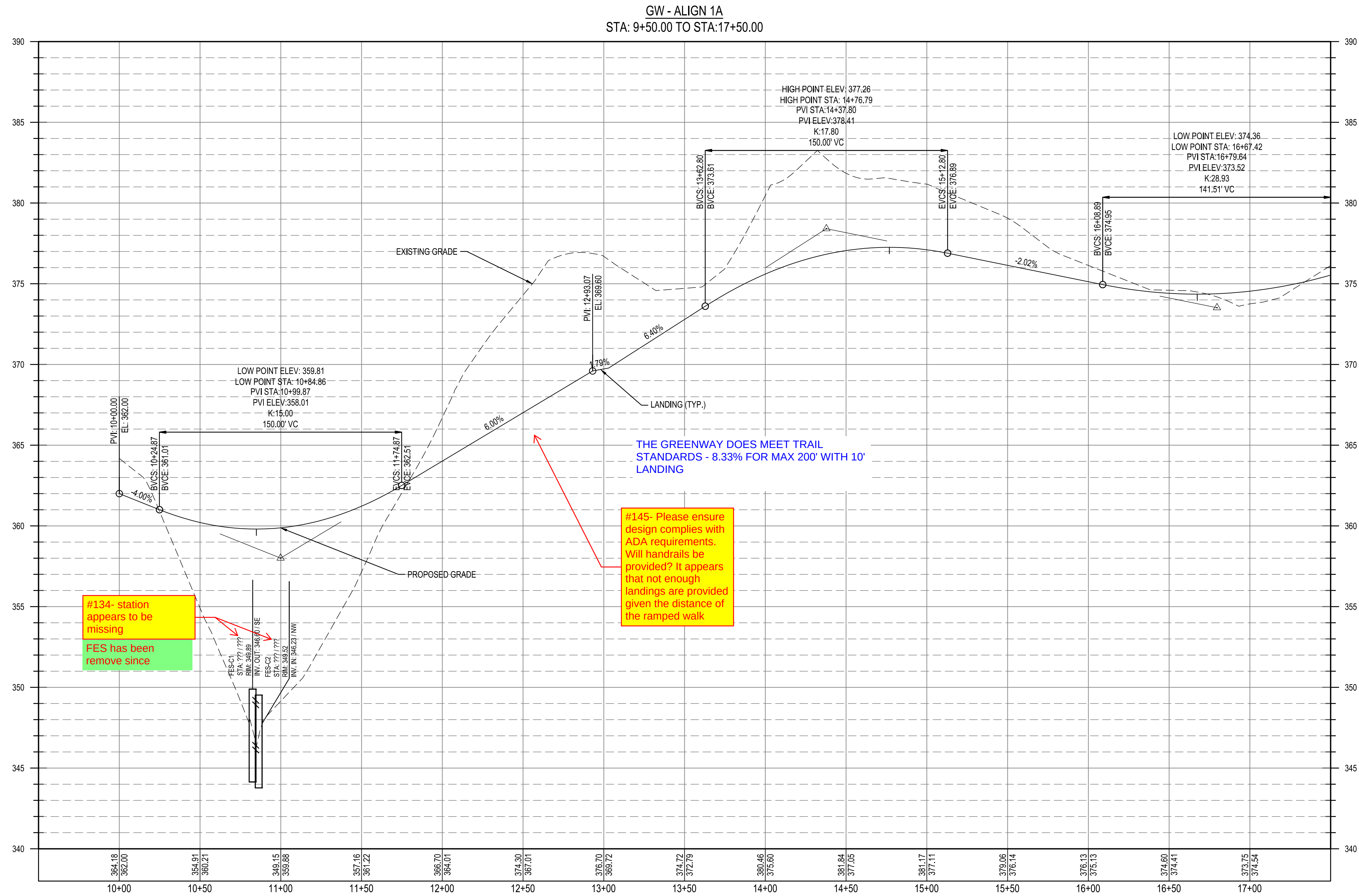
△	△	△	△	REV	04/03/2023	INITIAL SUBMITTAL
△	△	△	△	REV	06/01/2023	PER TOWN OF ROLESVILLE COMMENT

\\browgway.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C6-18 GREENWAY PLAN AND PROFILE.dwg Layout: GW1A GREENWAY PLAN AND PROFILE (1 OF 2) Plotted: 6/1/2023 3:33:35 PM



#21- adjust leader
Leader adjusted

#144- This seems to indicate the easement is 10' wide, when it should be 20'. Suggest updated or adjusting wording so meaning is clear.
Wording adjusted



#134- station appears to be missing
FES has been remove since

#145- Please ensure design complies with ADA requirements. Will handrails be provided? It appears that not enough landings are provided given the distance of the ramped walk



Know what's below.
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DESIGNED BY: DF/CD		REV 06/01/2023		PER TOWN OF ROLESVILLE COMMENT
DRAWN BY: DF/JWM		REV 04/03/2023		INITIAL SUBMITTAL
REVIEWED BY: DF				

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LENNAR
CORPORAION

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MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

GW1A GREENWAY PLAN
AND PROFILE (1 OF 2)

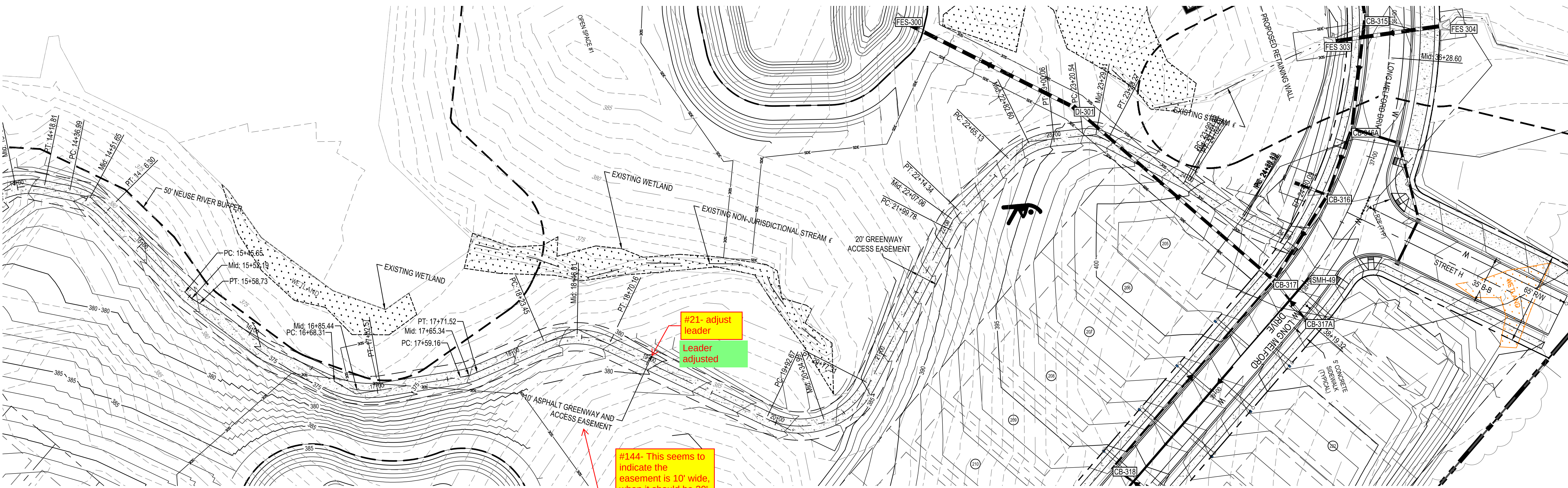
NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 06/01/2023

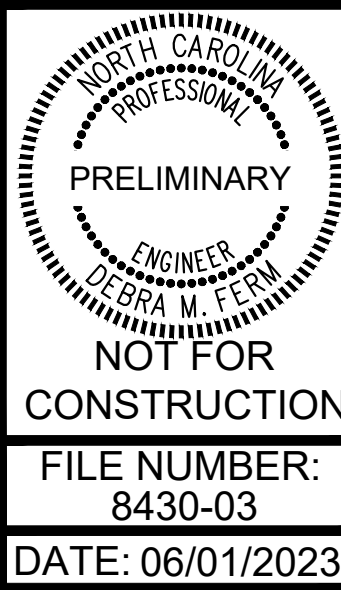
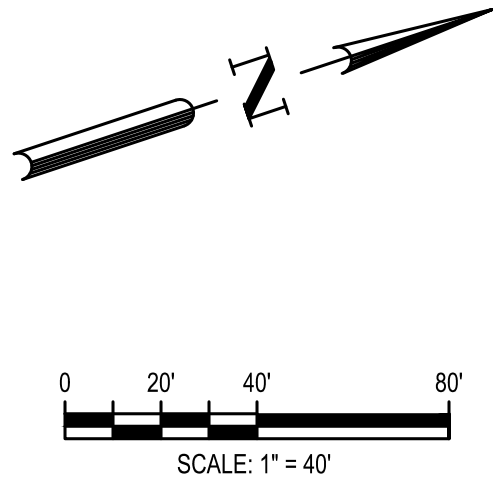
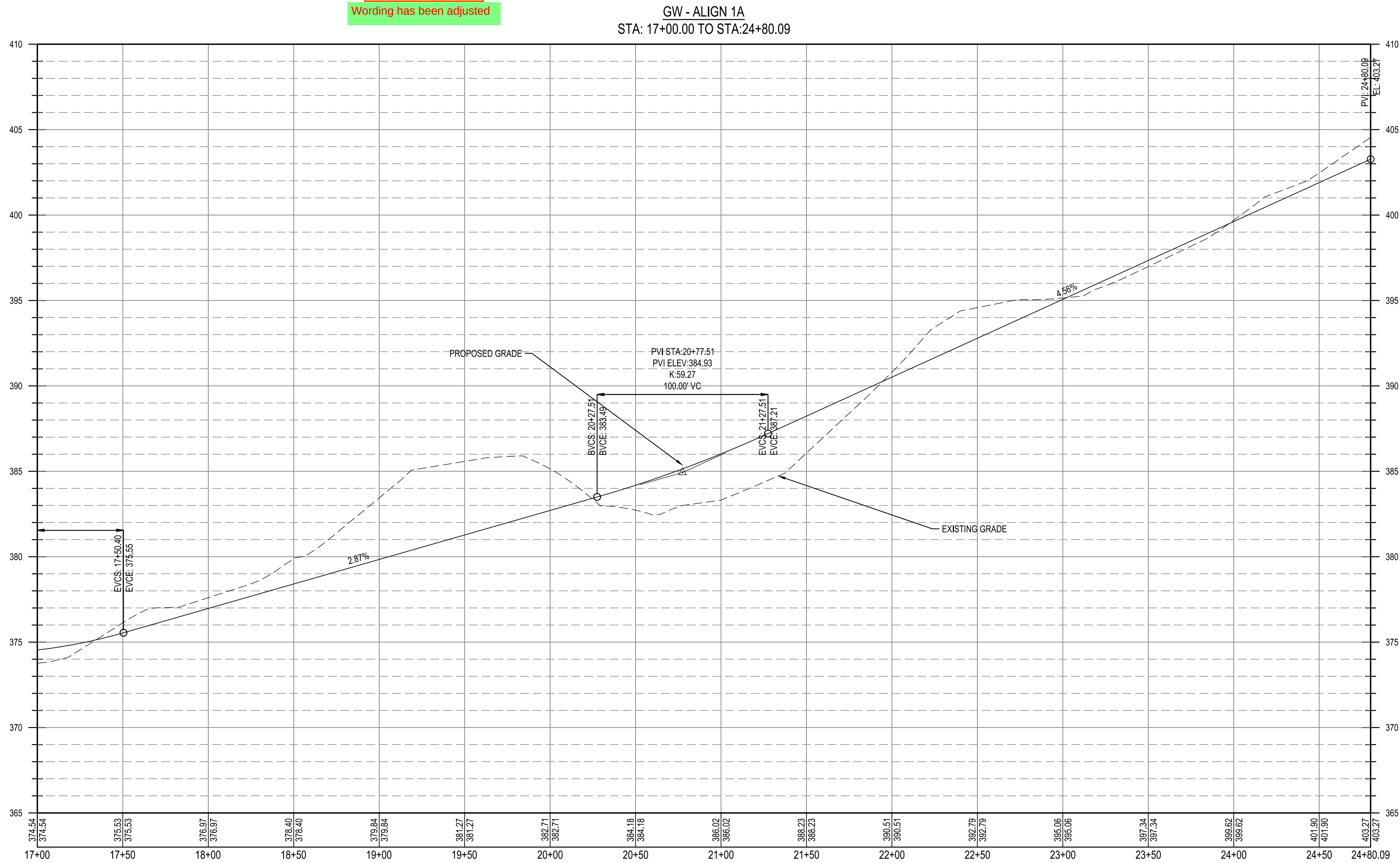
C6-18

\\browngay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C6-18 GREENWAY PLAN AND PROFILE.dwg Layout: GW1A GREENWAY PLAN AND PROFILE (2 OF 2) Plotted: 6/1/2023 3:33:43 PM



#21- adjust leader
Leader adjusted

#144- This seems to indicate the easement is 10' wide, when it should be 20'. Suggest updated or adjusting wording so meaning is clear.
Wording has been adjusted



PARKER RIDGE
82 SCHOOL STREET
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CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
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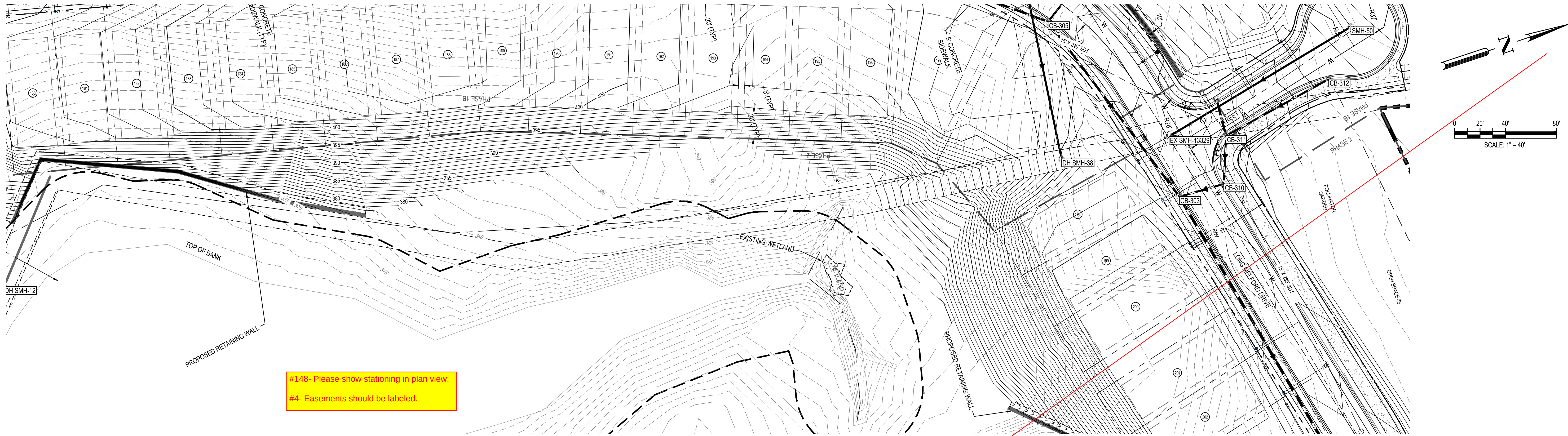
BCE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

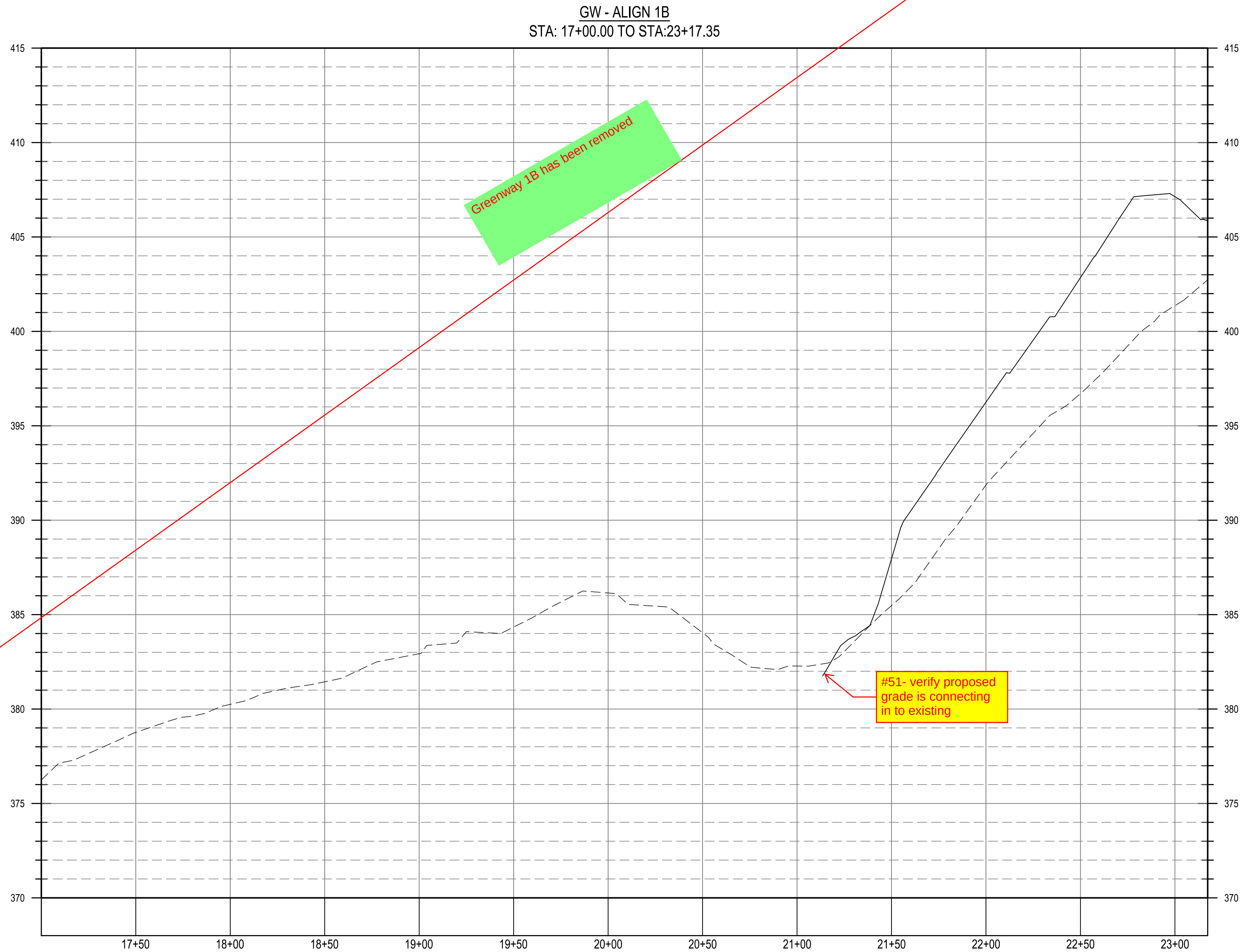
REV	DATE	DESCRIPTION
06/01/2023	06/01/2023	PER TOWN OF ROLESVILLE COMMENT
04/03/2023	04/03/2023	INITIAL SUBMITTAL

C6-19

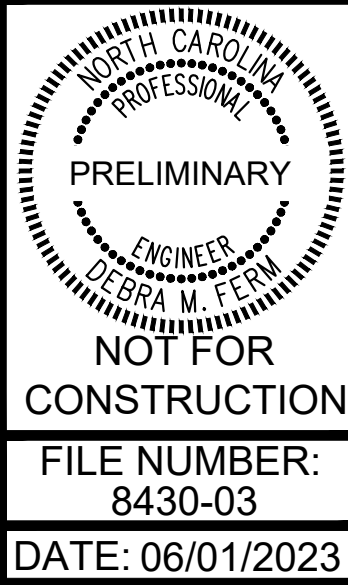
\\browgway.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C6-18 GREENWAY PLAN AND PROFILE.dwg Layout: GW1B GREENWAY PLAN AND PROFILE (2 OF 2) Plotted: 6/1/2023 3:34:03 PM



#148- Please show stationing in plan view.
#4- Easements should be labeled.



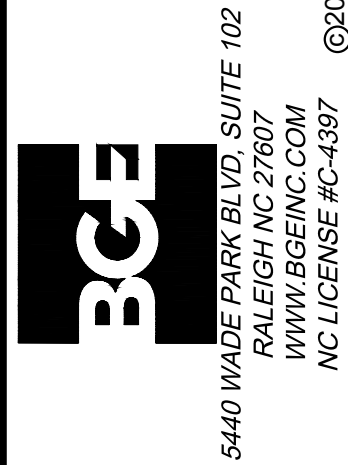
#149- What is the intent of this profile? Is everything that is intended to be shown being shown?



GW1B GREENWAY PLAN
AND PROFILE (2 OF 2)

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

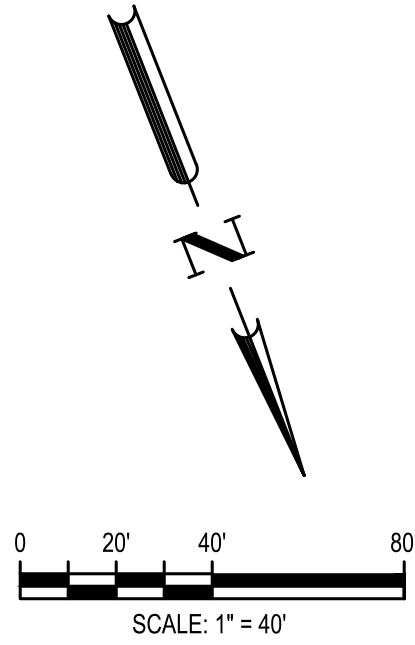
LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



△ ₅	
△ ₄	
△ ₃	
△ ₂	
△ ₁	06/01/2023
PER TOWN OF ROLESVILLE COMMENT	
REV	04/03/2023
INITIAL SUBMITTAL	

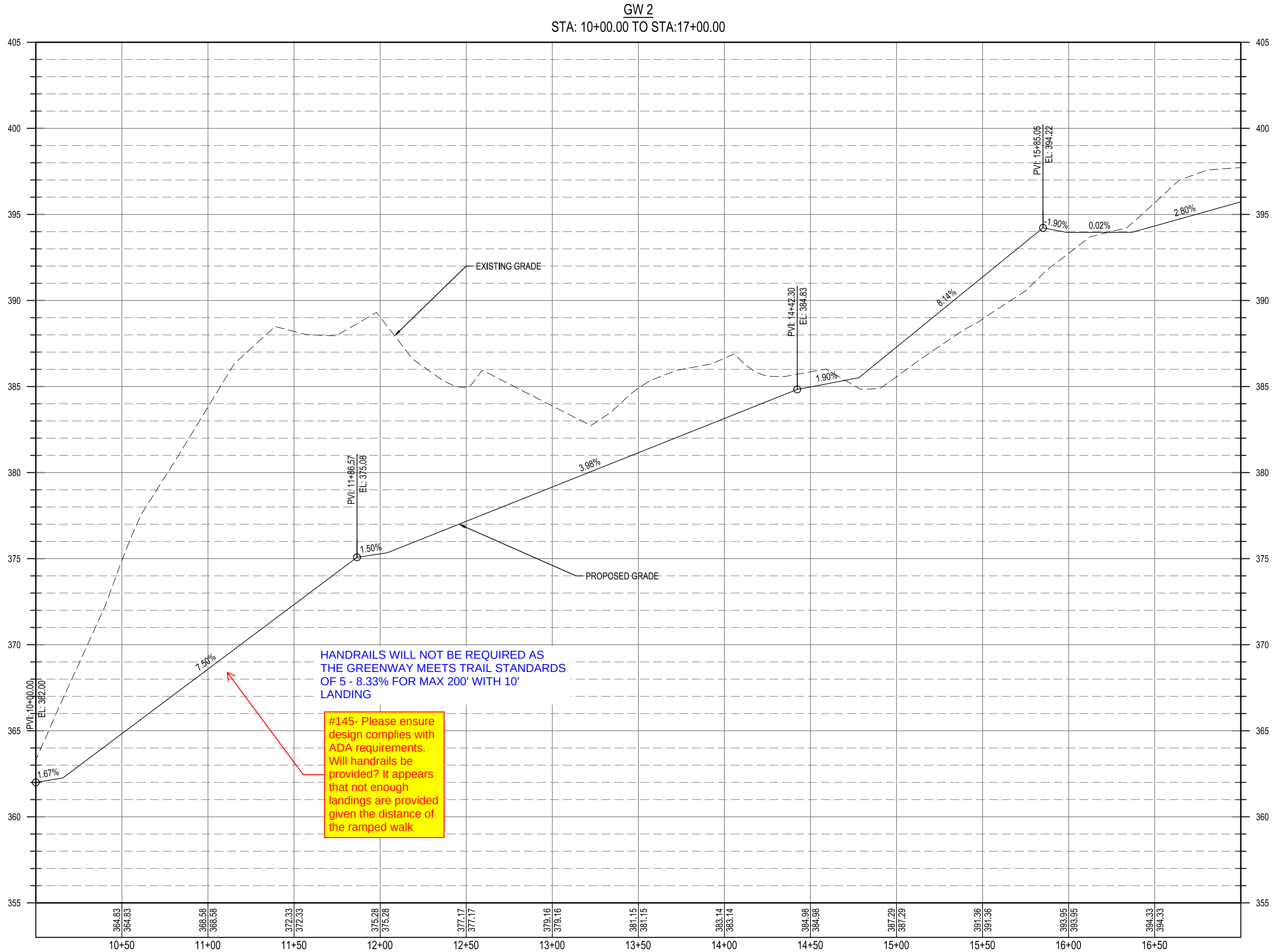
C6-21

\\browgway.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\CB-18 GREENWAY PLAN AND PROFILE.dwg Layout: GW2 GREENWAY PLAN AND PROFILE (1 OF 2) Plotted: 6/1/2023 3:34:14 PM



#146- It's a little confusing have two parallel stationing labels. Can the one that is not being referenced in the profile be frozen?

Appropriate station label only exists now

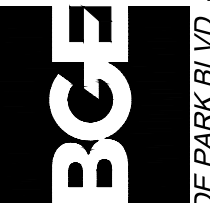
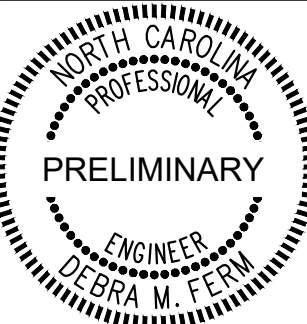


HANDRAILS WILL NOT BE REQUIRED AS THE GREENWAY MEETS TRAIL STANDARDS OF 5 - 8.33% FOR MAX 200' WITH 10' LANDING

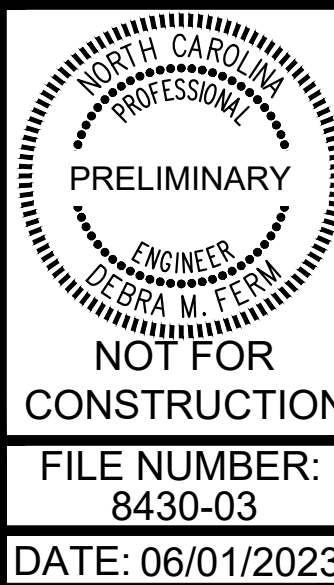
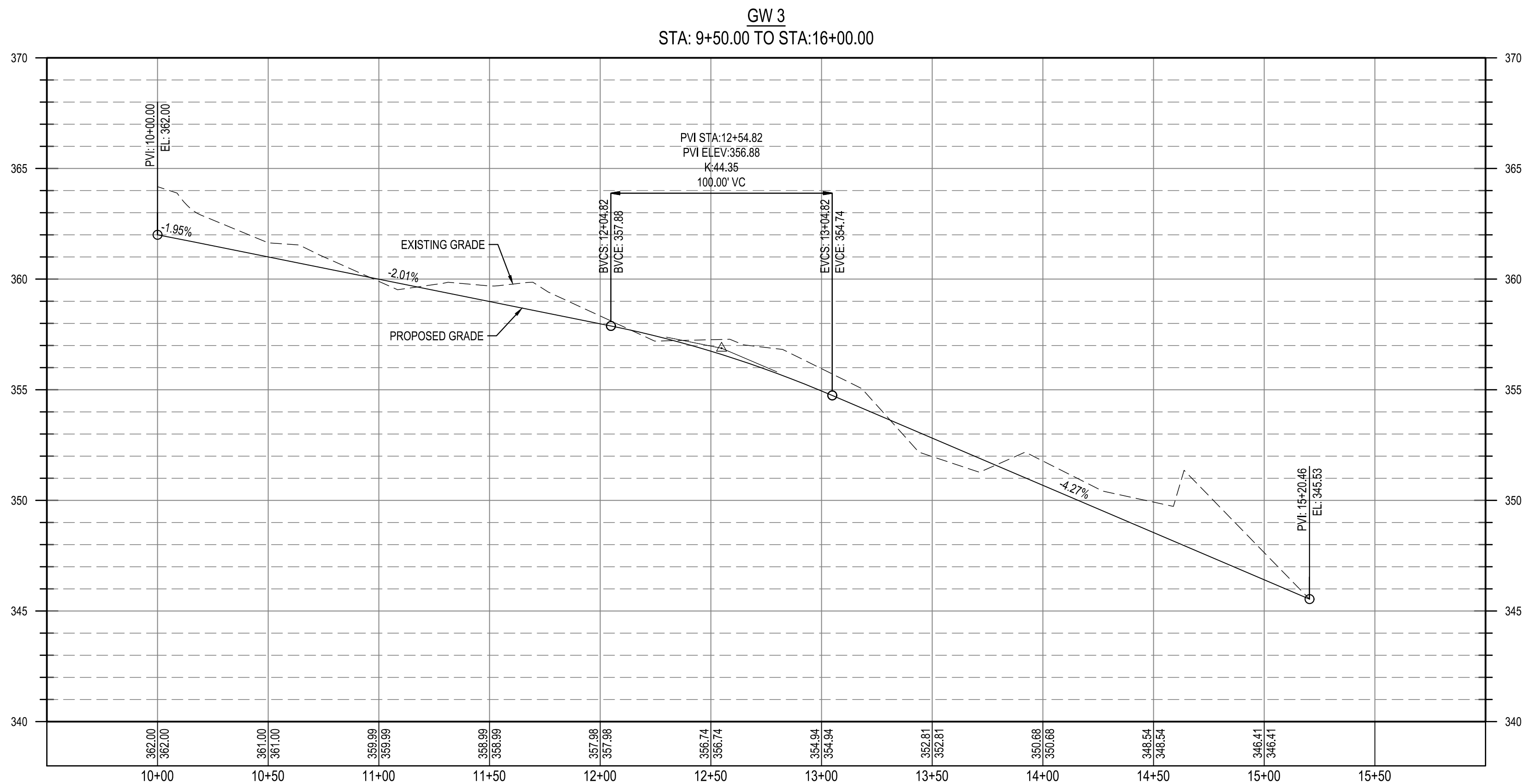
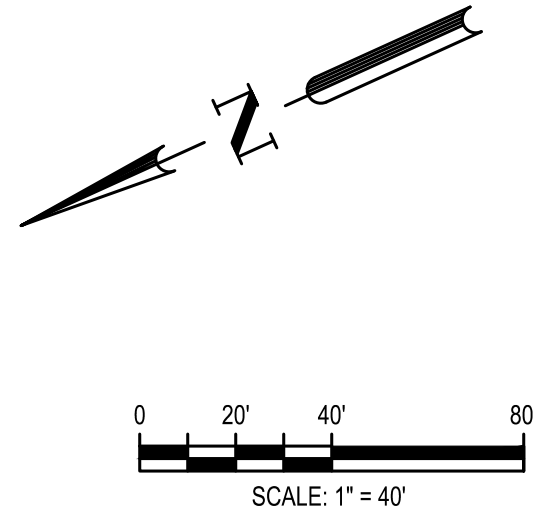
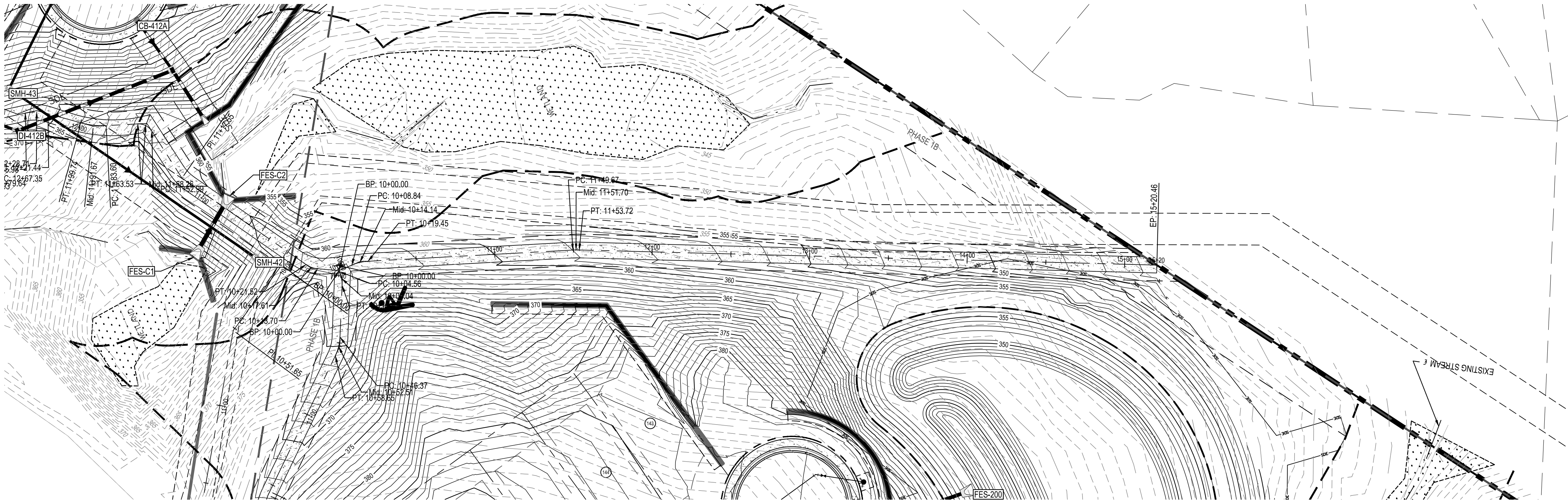
#145- Please ensure design complies with ADA requirements. Will handrails be provided? It appears that not enough landings are provided given the distance of the ramped walk



Know what's below.
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 5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
LENNAR CORPORAION 1100 PERMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
GW2 GREENWAY PLAN AND PROFILE (1 OF 2)	
 PRELIMINARY NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03	
DATE: 06/01/2023	
DESIGNED BY: DF/CD	REV 04/03/2023
DRAWN BY: DF/JWM	PER TOWN OF ROLESVILLE COMMENT
REVIEWED BY: DF	INITIAL SUBMITTAL

\\browsgay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\CB-18 GREENWAY PLAN AND PROFILE.dwg Layout: GW3 GREENWAY PLAN AND PROFILE (1 OF 1) Plotted: 6/1/2023 3:34:33 PM



GW3 GREENWAY PLAN AND
PROFILE (1 OF 1)

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

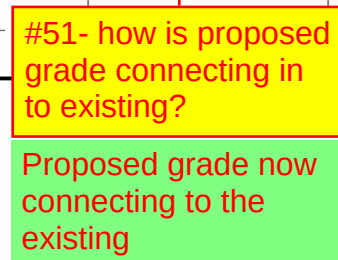
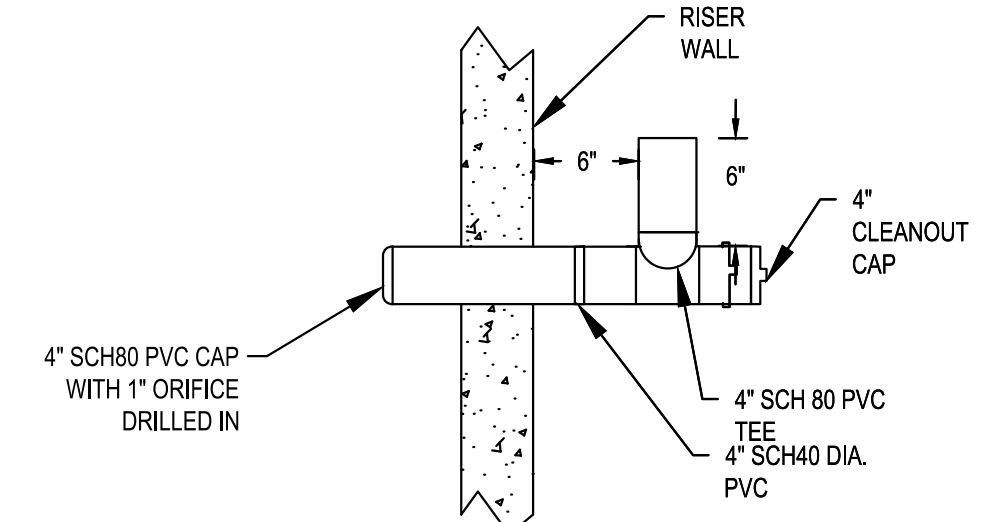
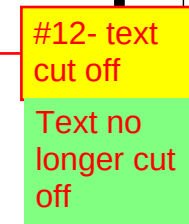
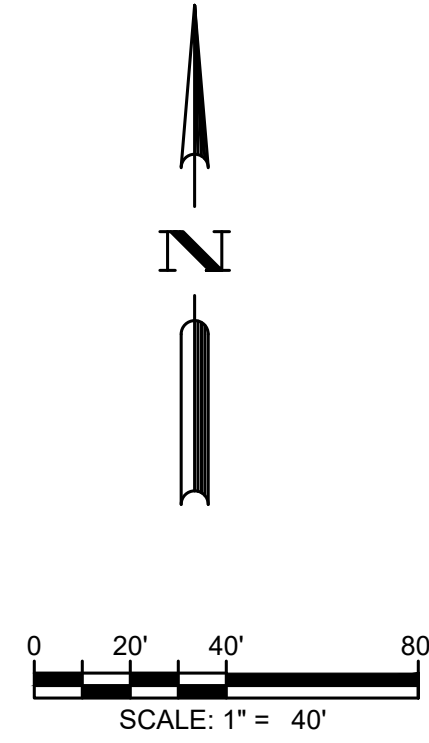


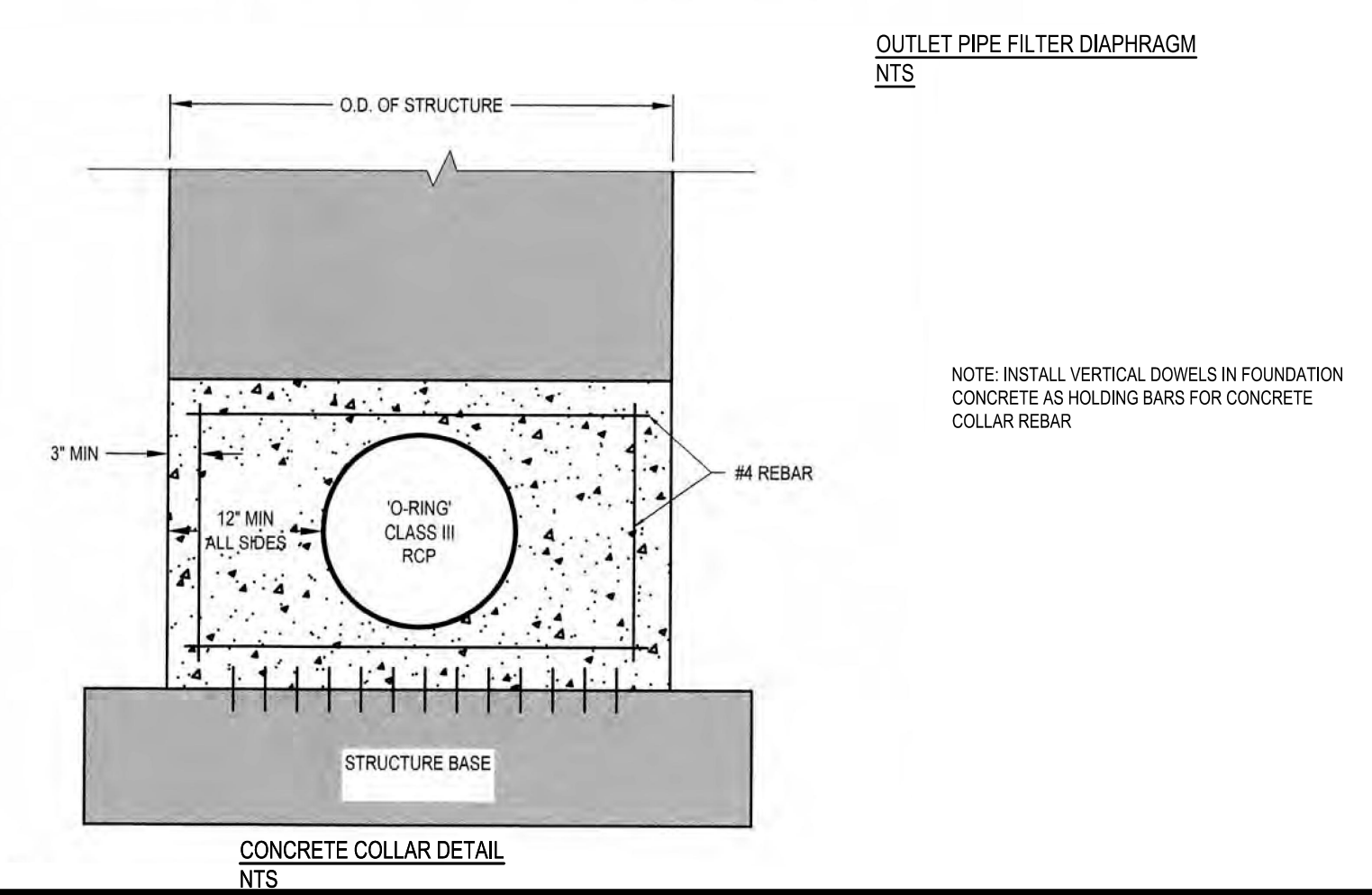
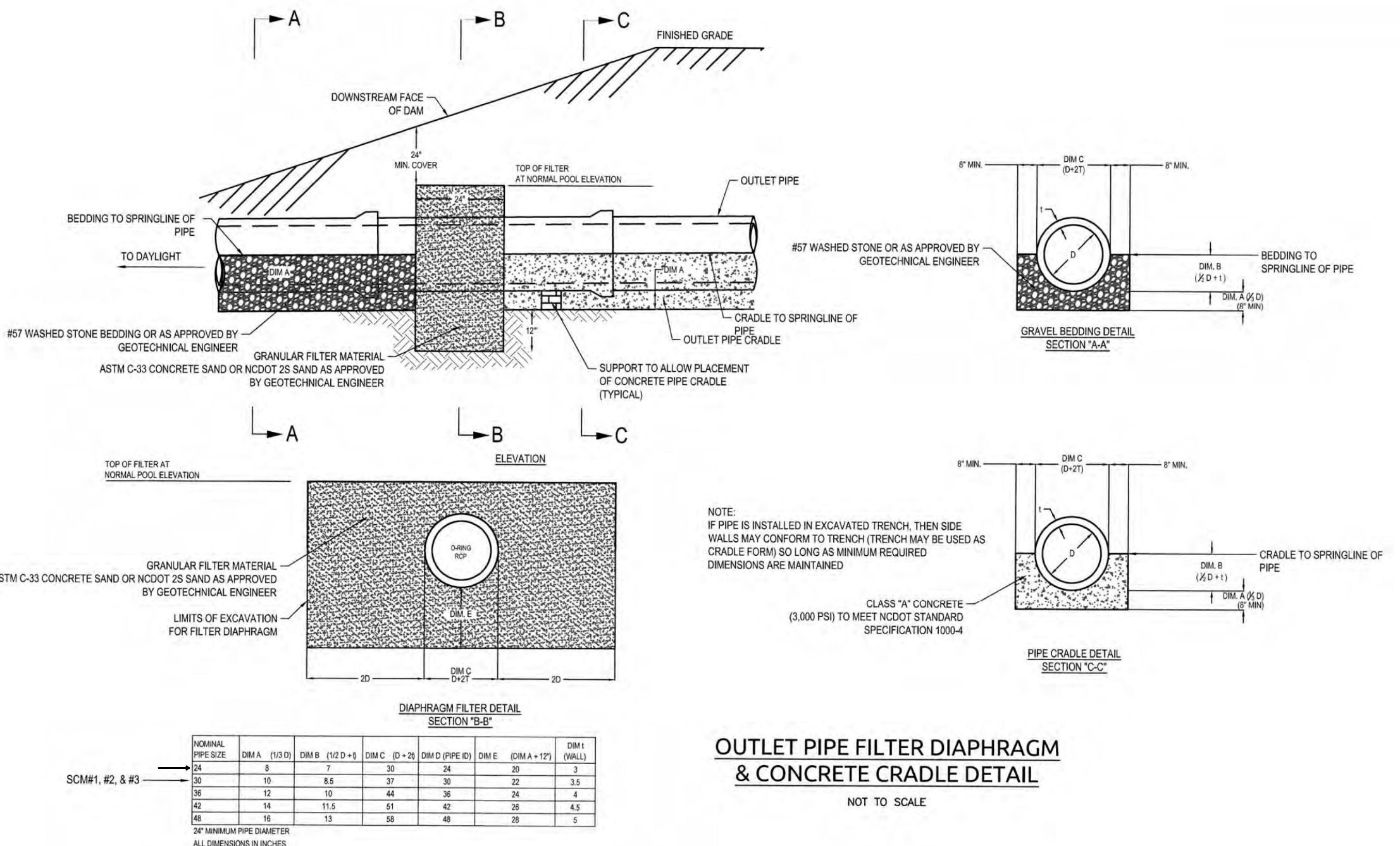
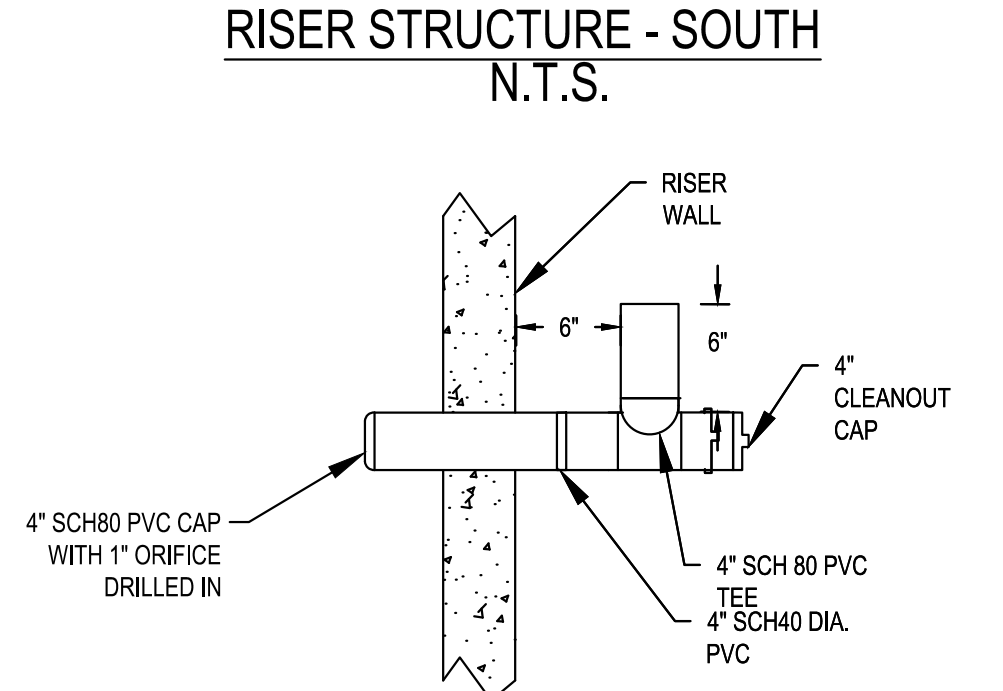
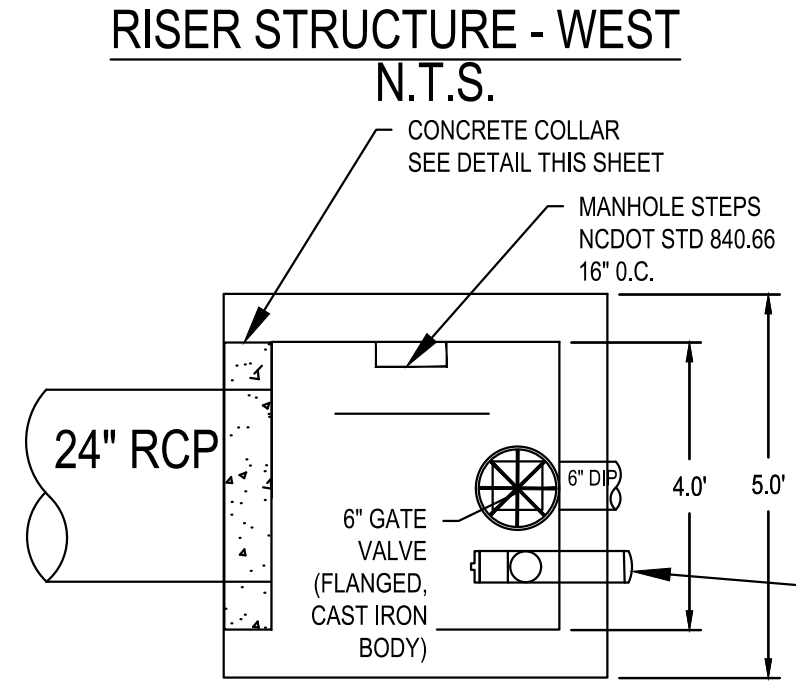
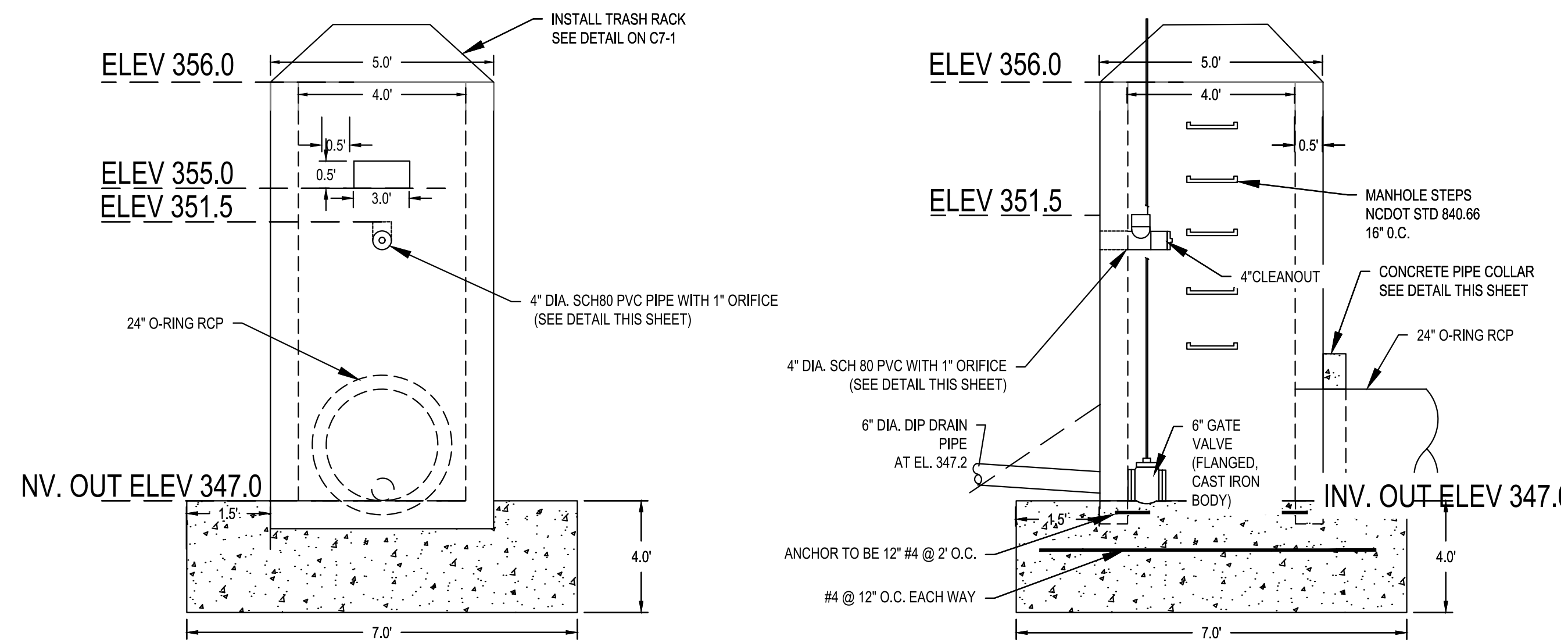
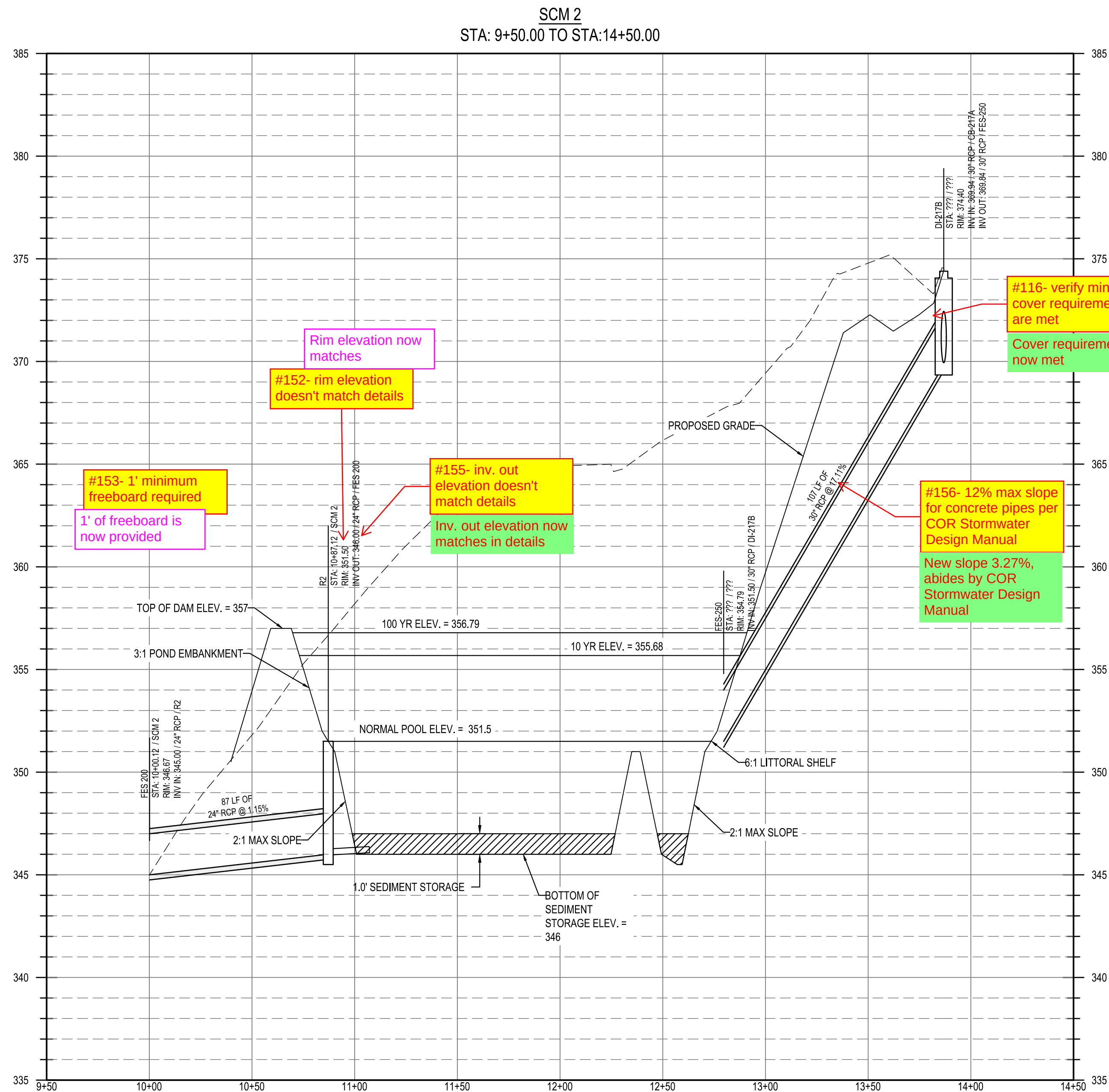
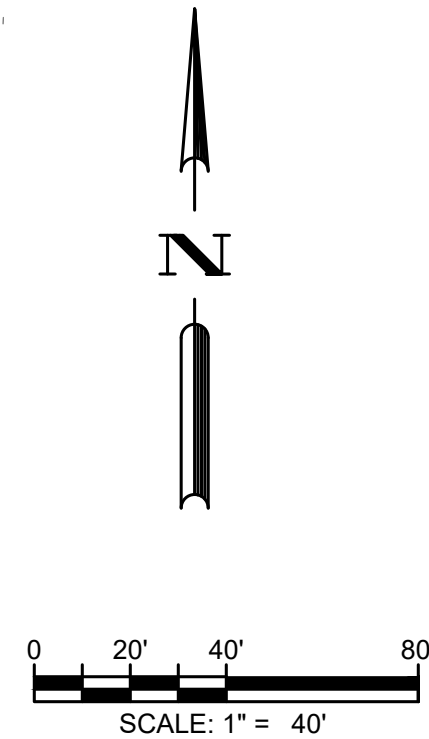
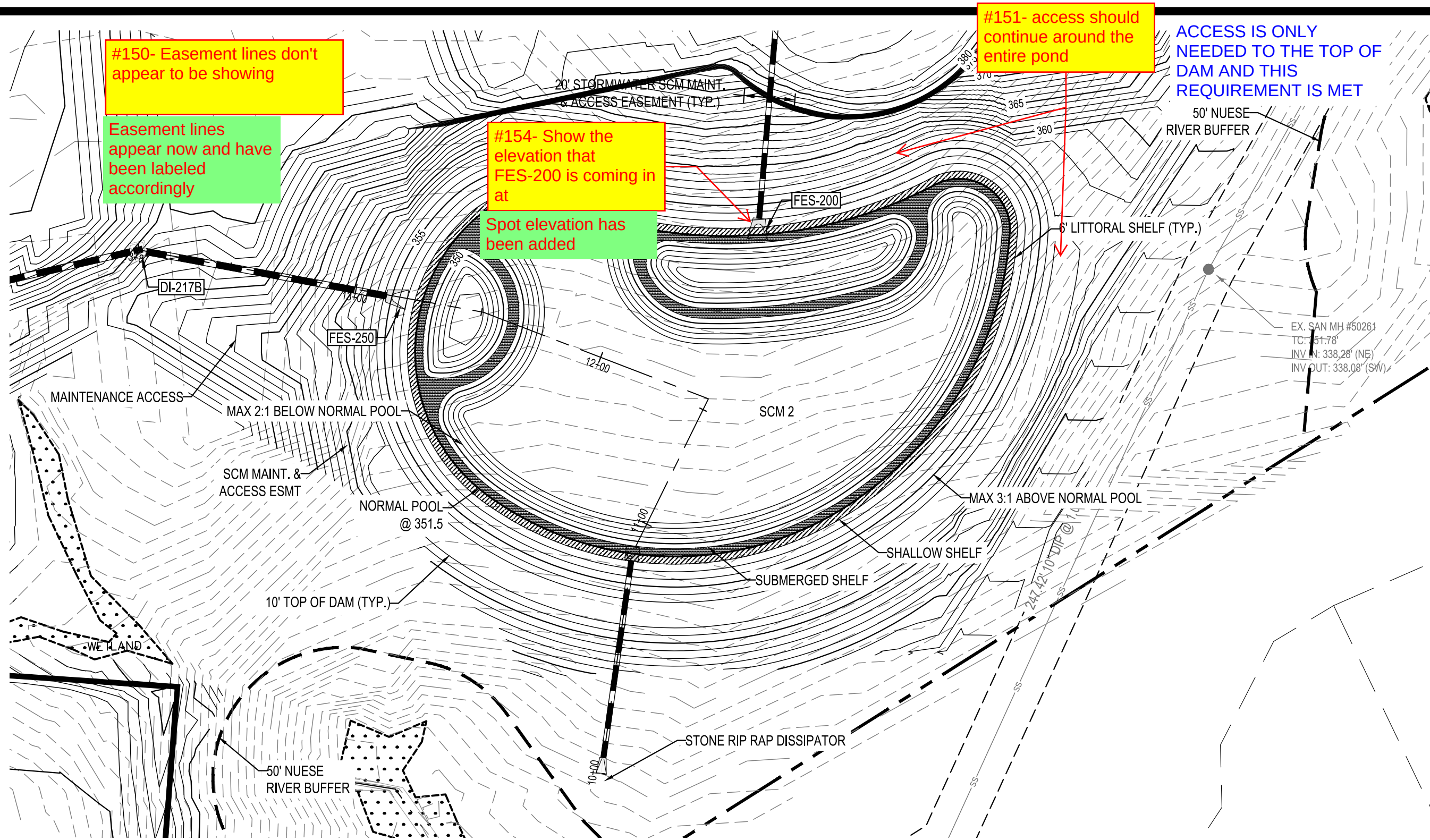
DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

REV 04/03/2023
PER TOWN OF ROLESVILLE COMMENT

06/01/2023
INITIAL SUBMITTAL

C6-24





PER TOWN OF ROLESVILLE COMMENT		06/01/2023	REV	04/03/2023	INITIAL SUBMITTAL
DESIGNED BY:		DF/CD			
DRAWN BY:		DF/JWM			
REVIEWED BY:		DF			

5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
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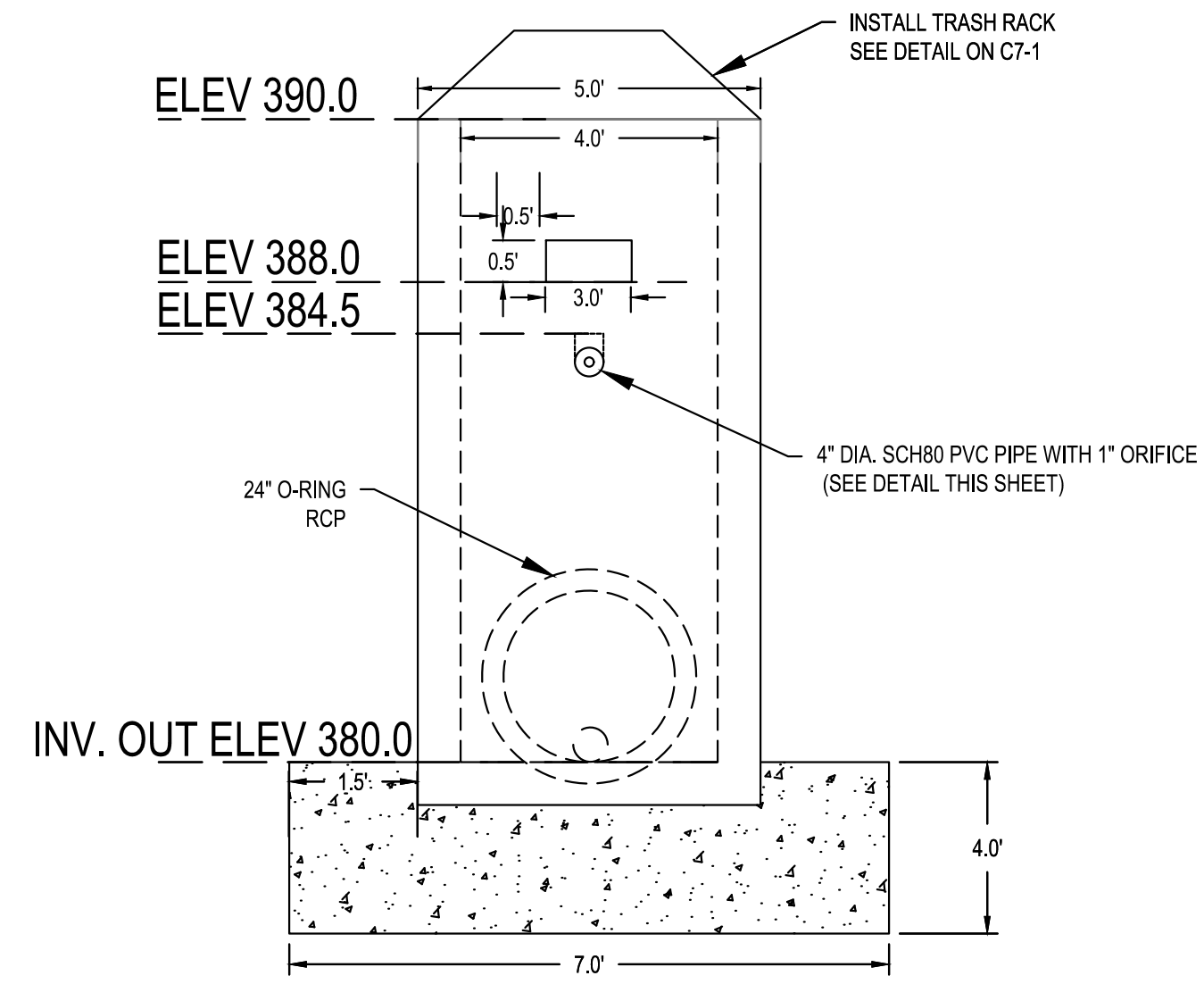
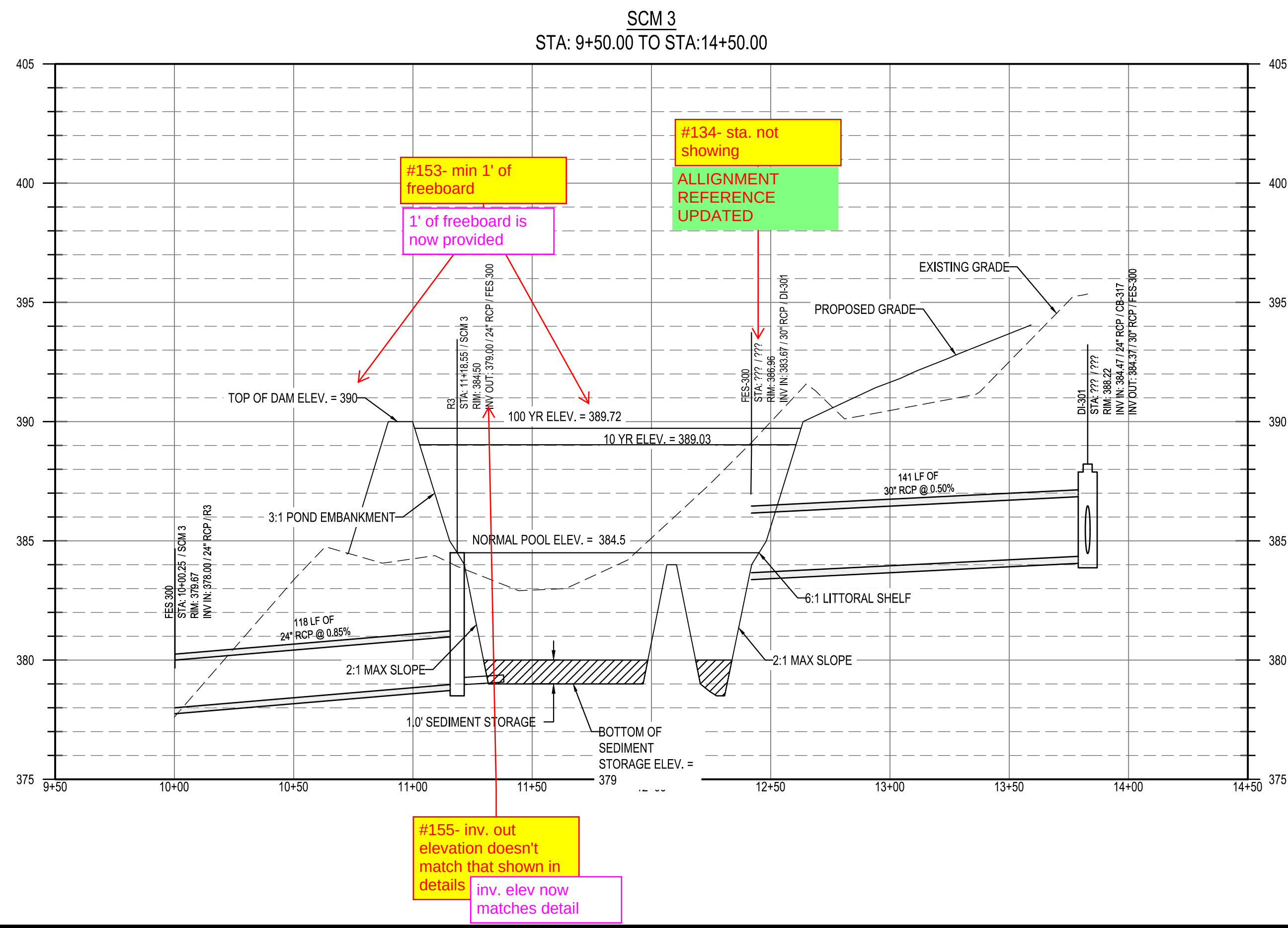
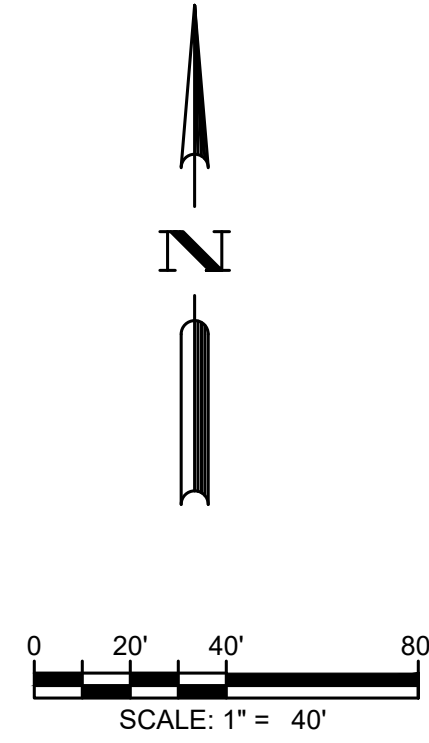
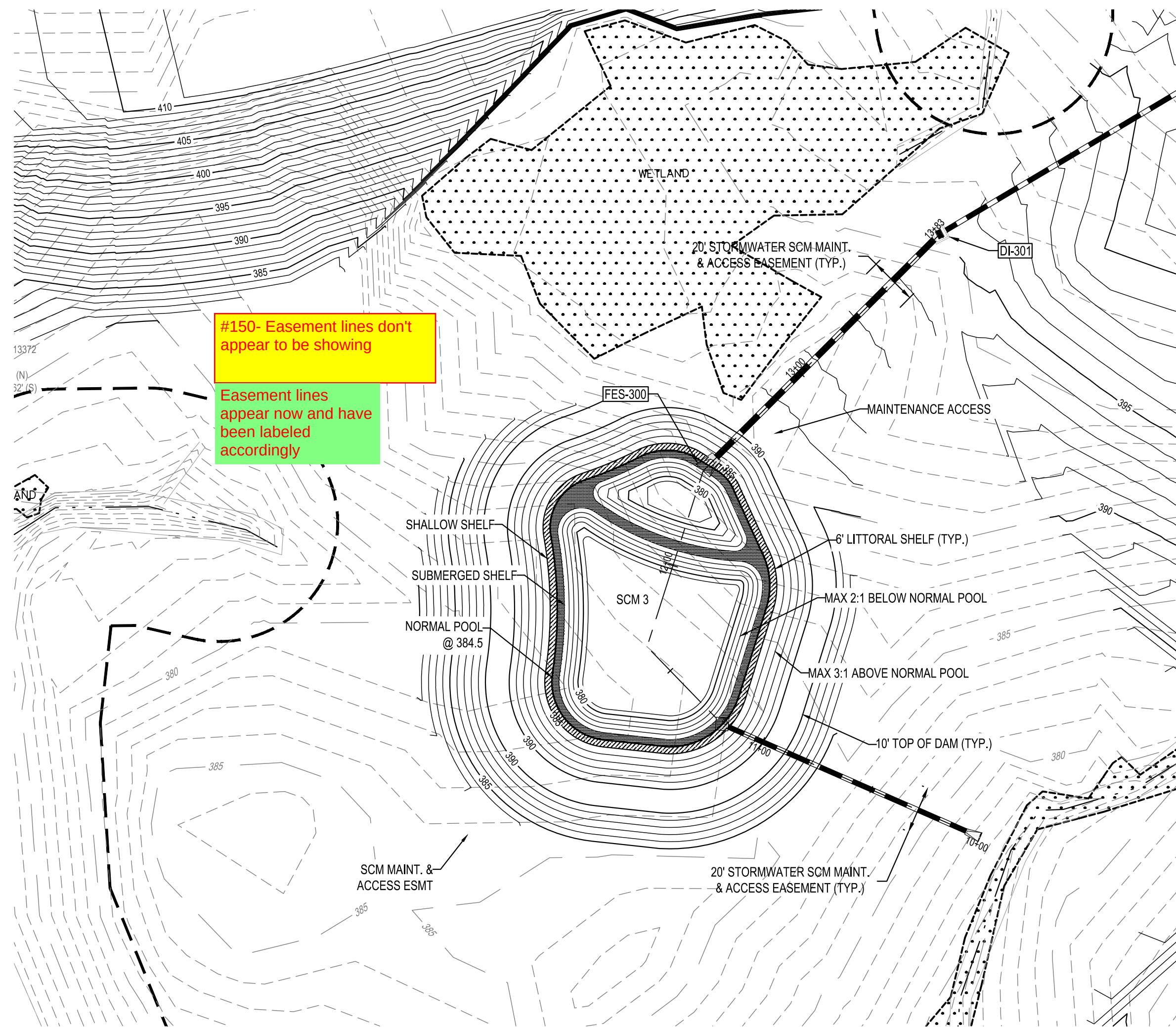
LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

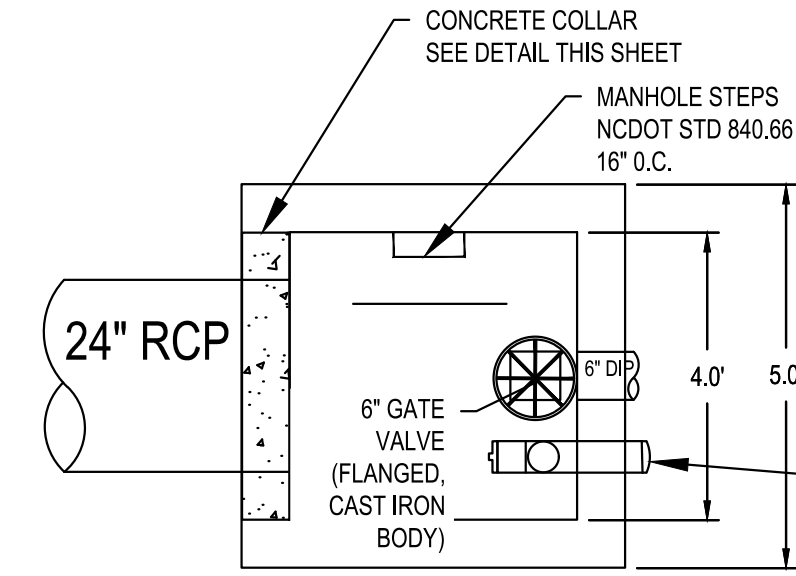
SCM 2 PLAN AND PROFILE

811
Know what's below.
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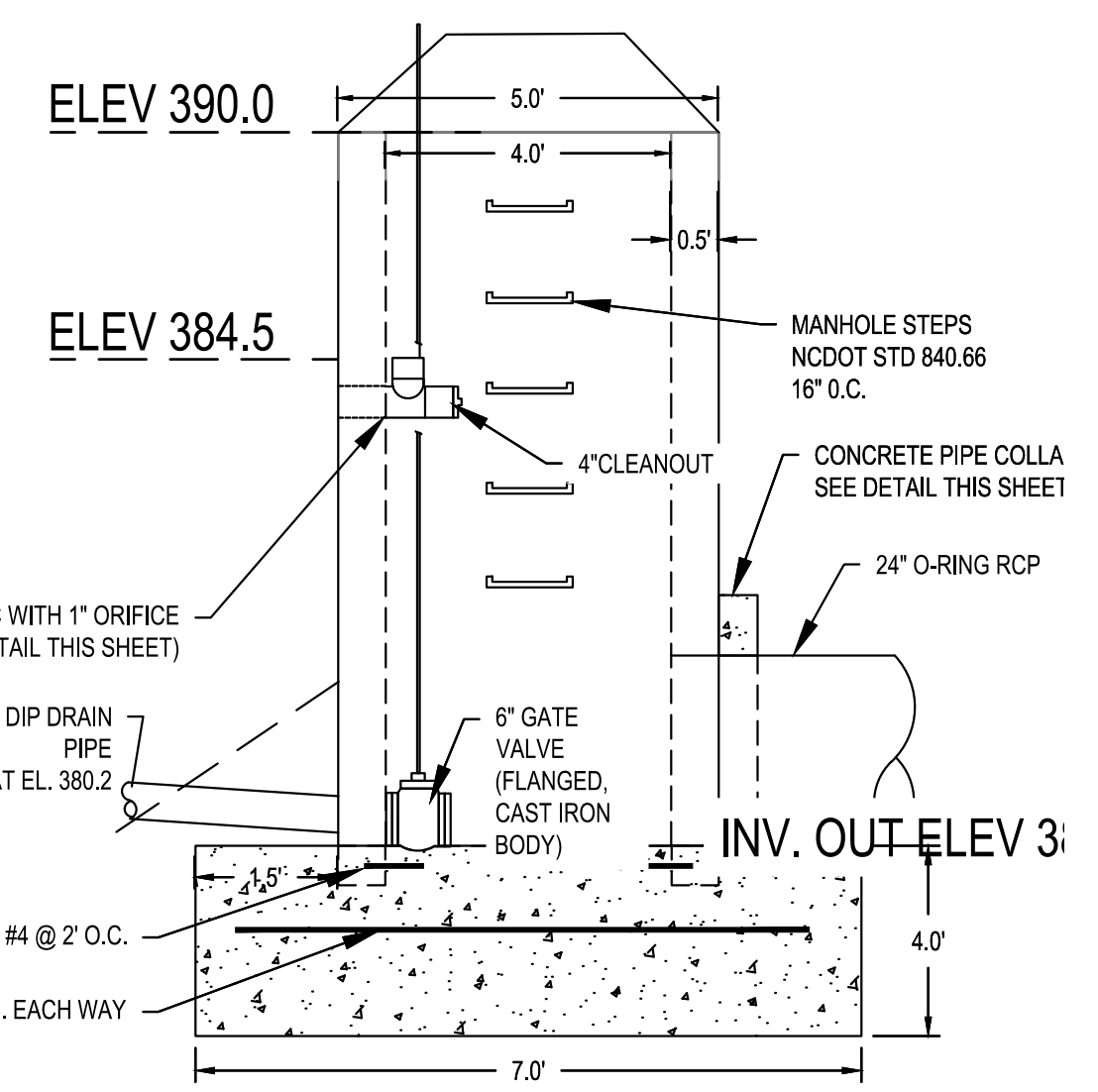
C7-1



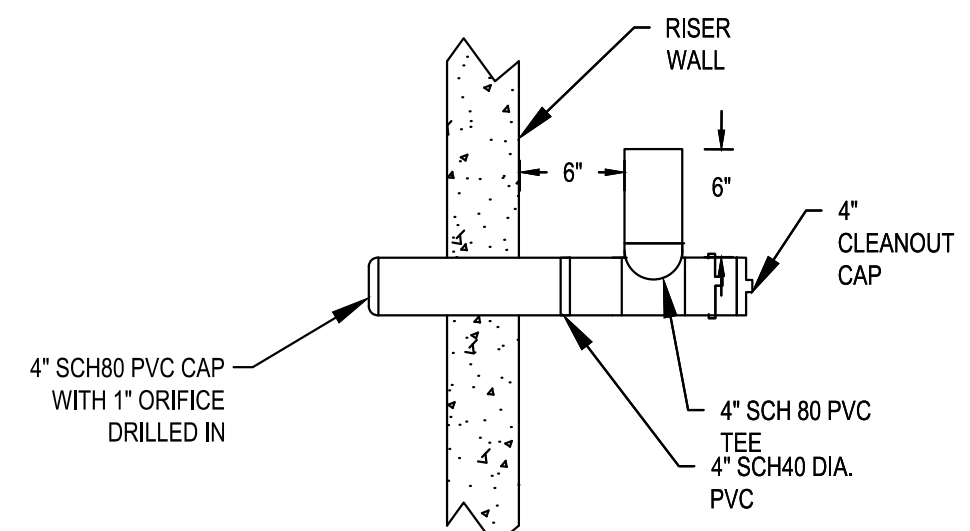
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N.T.S.



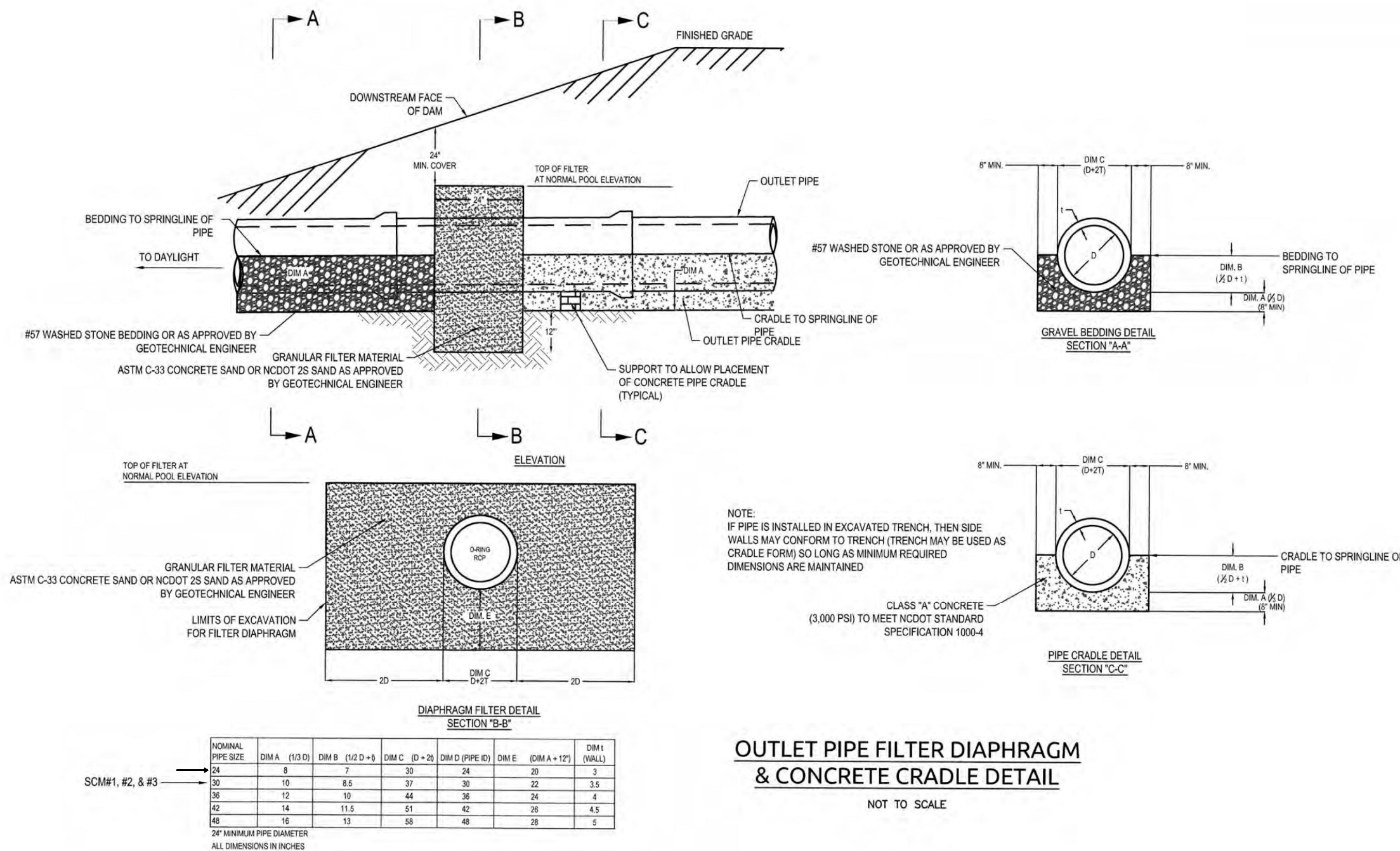
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N.T.S.

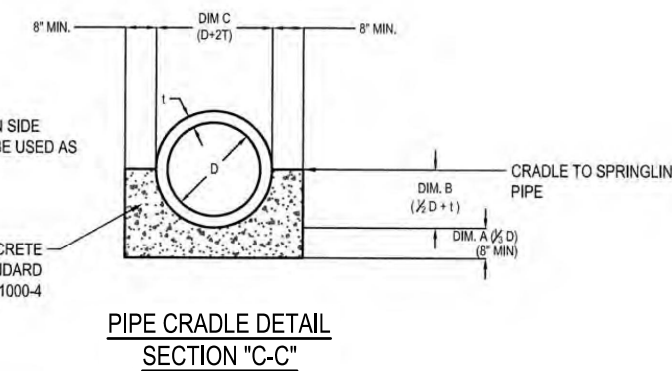
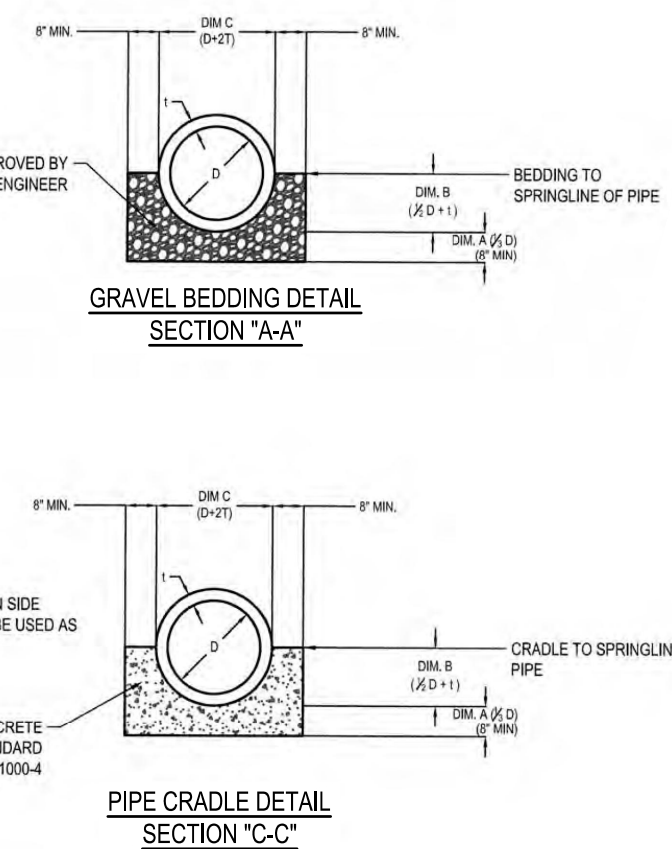
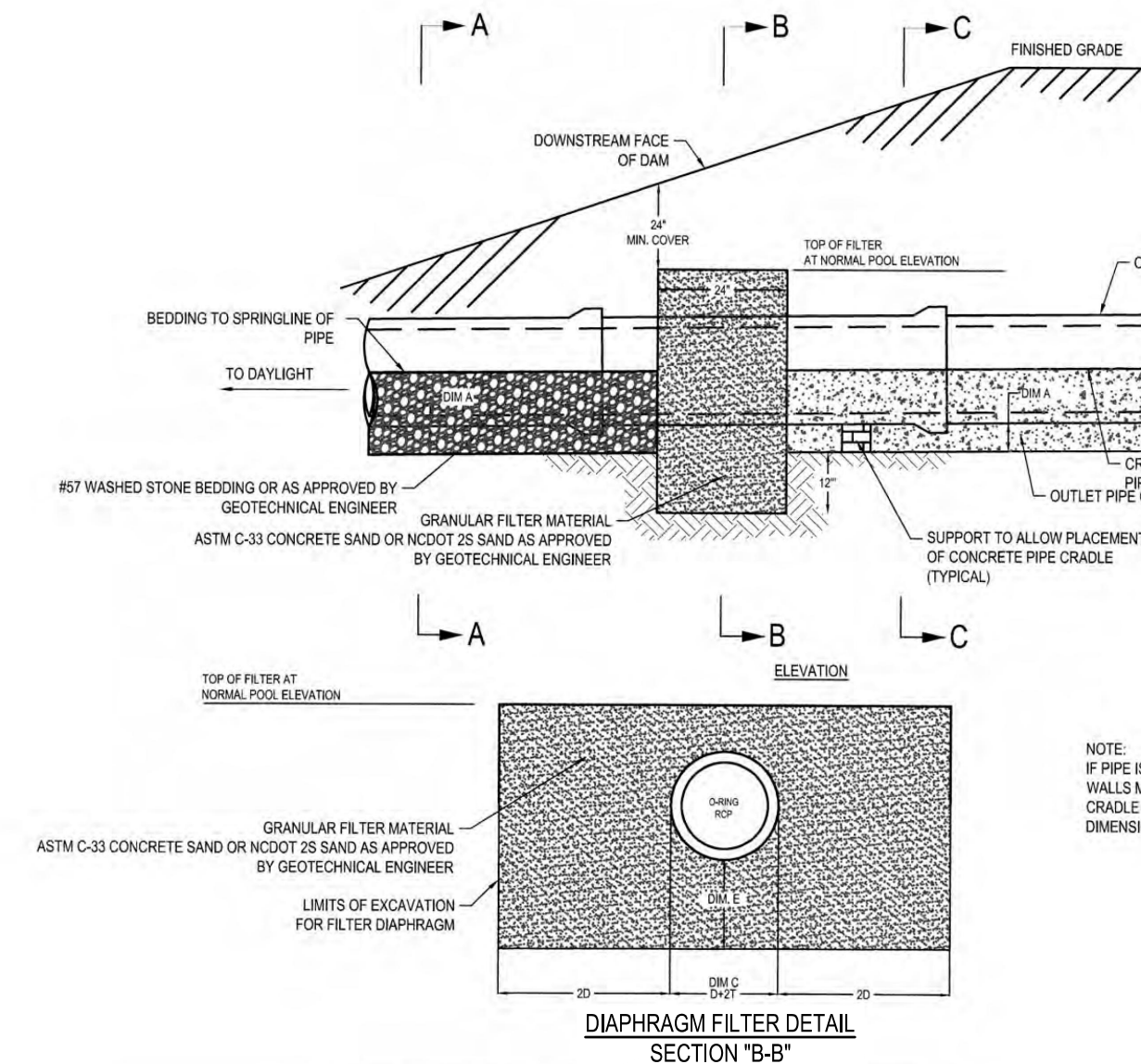
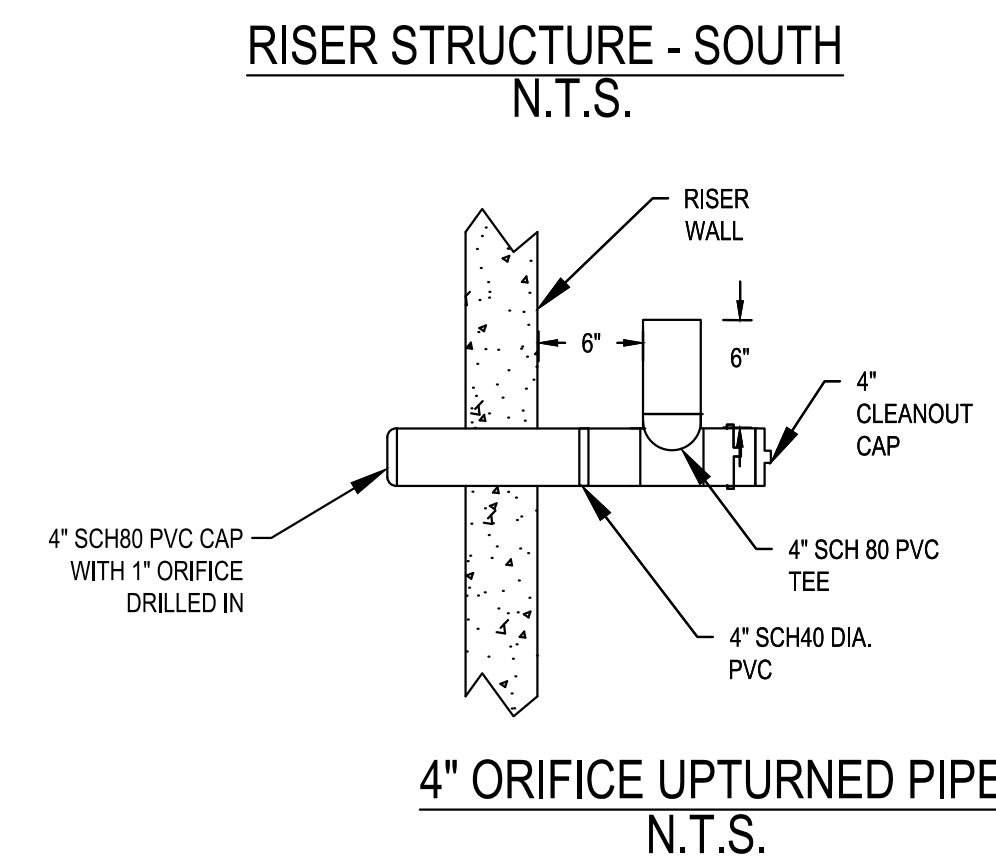
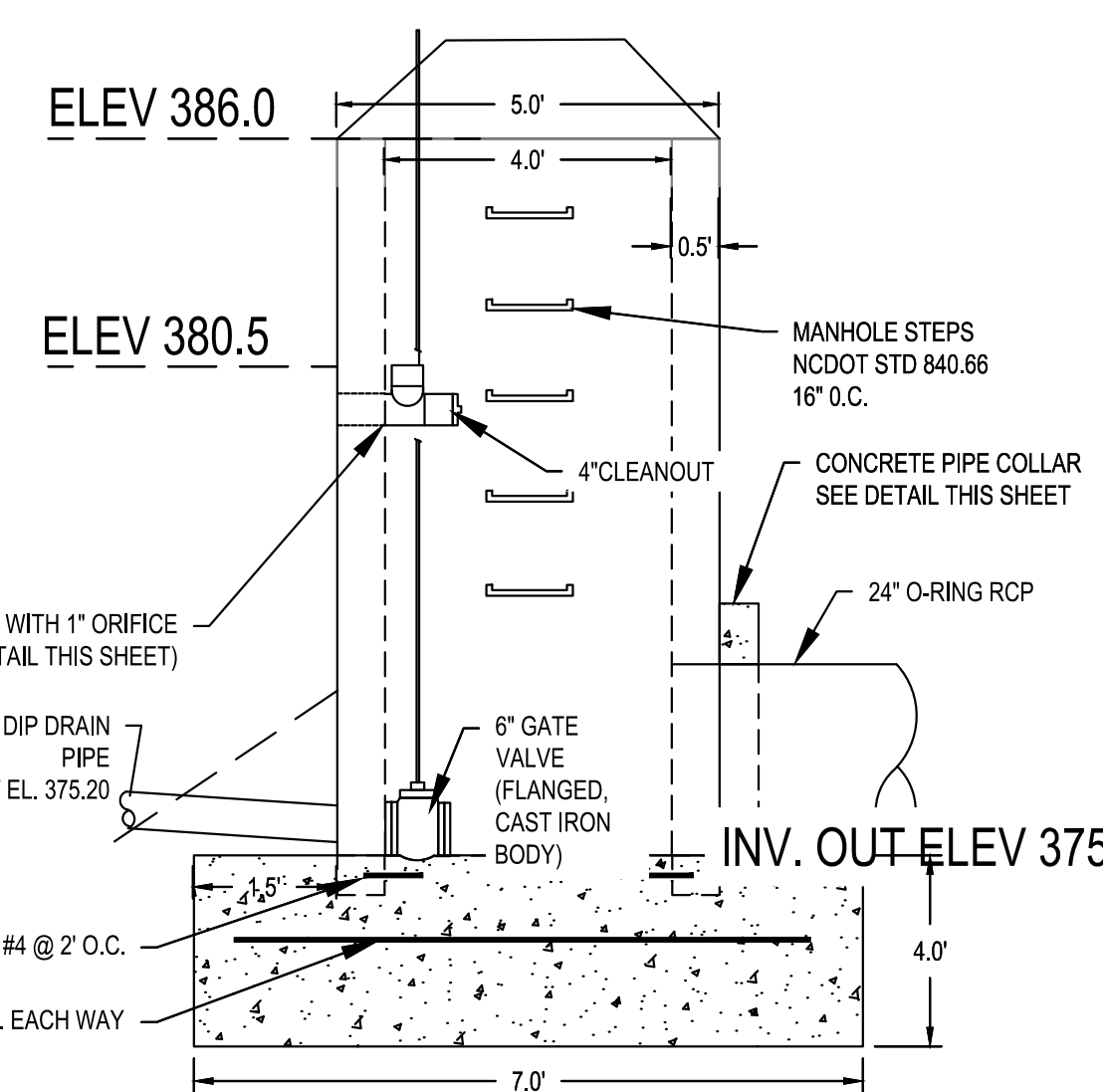
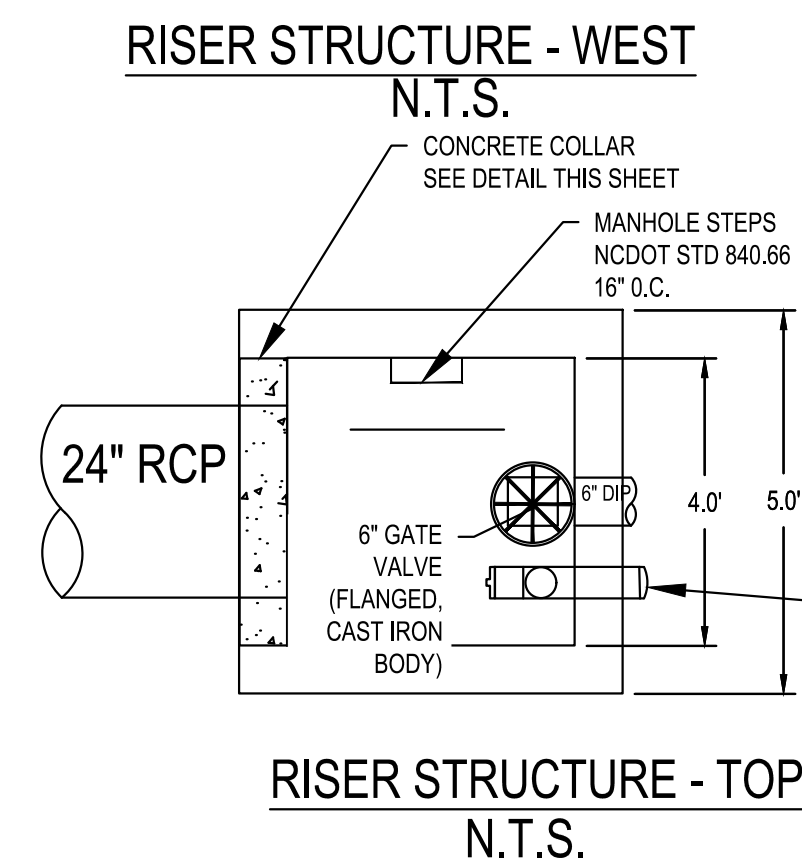
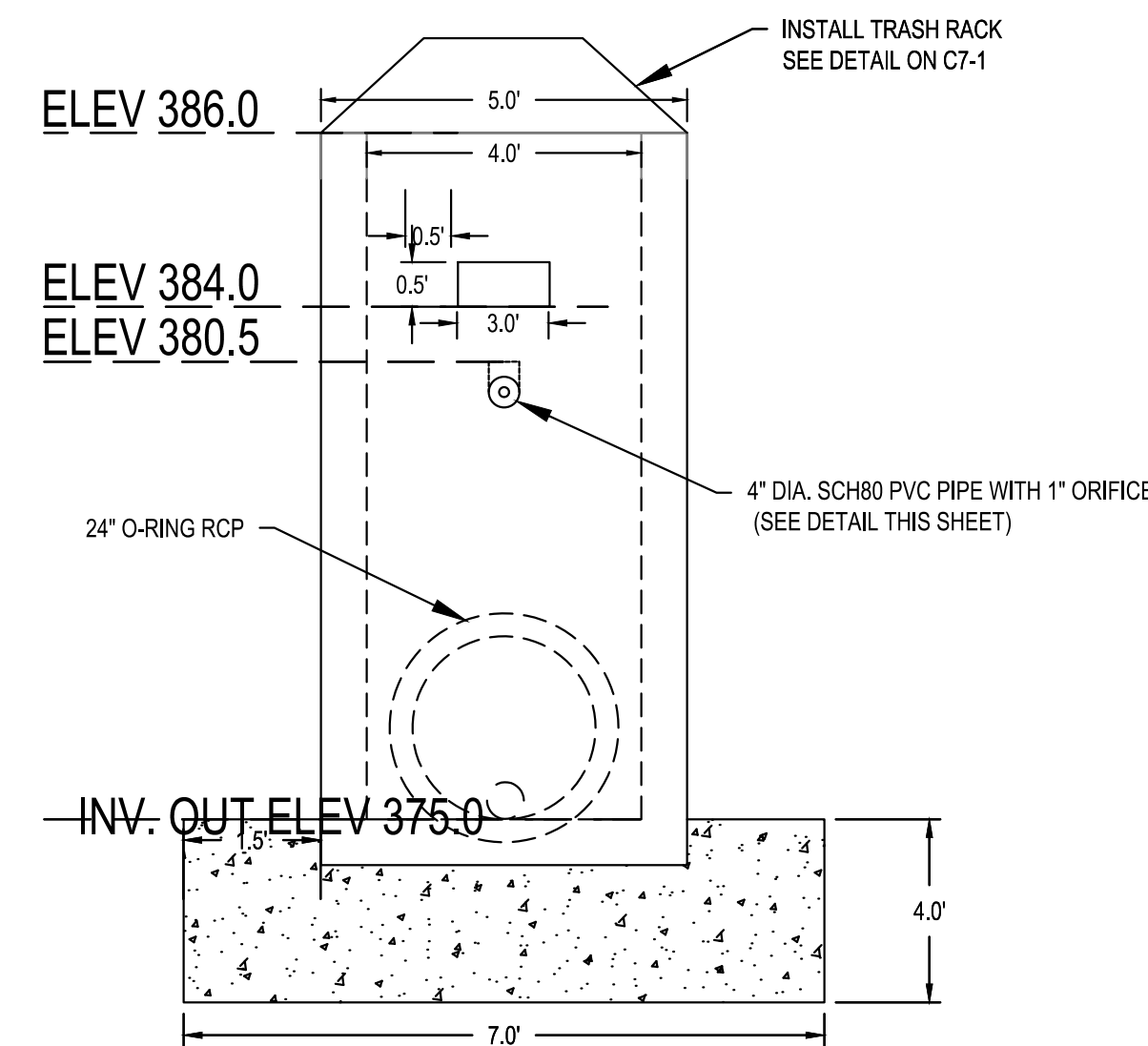
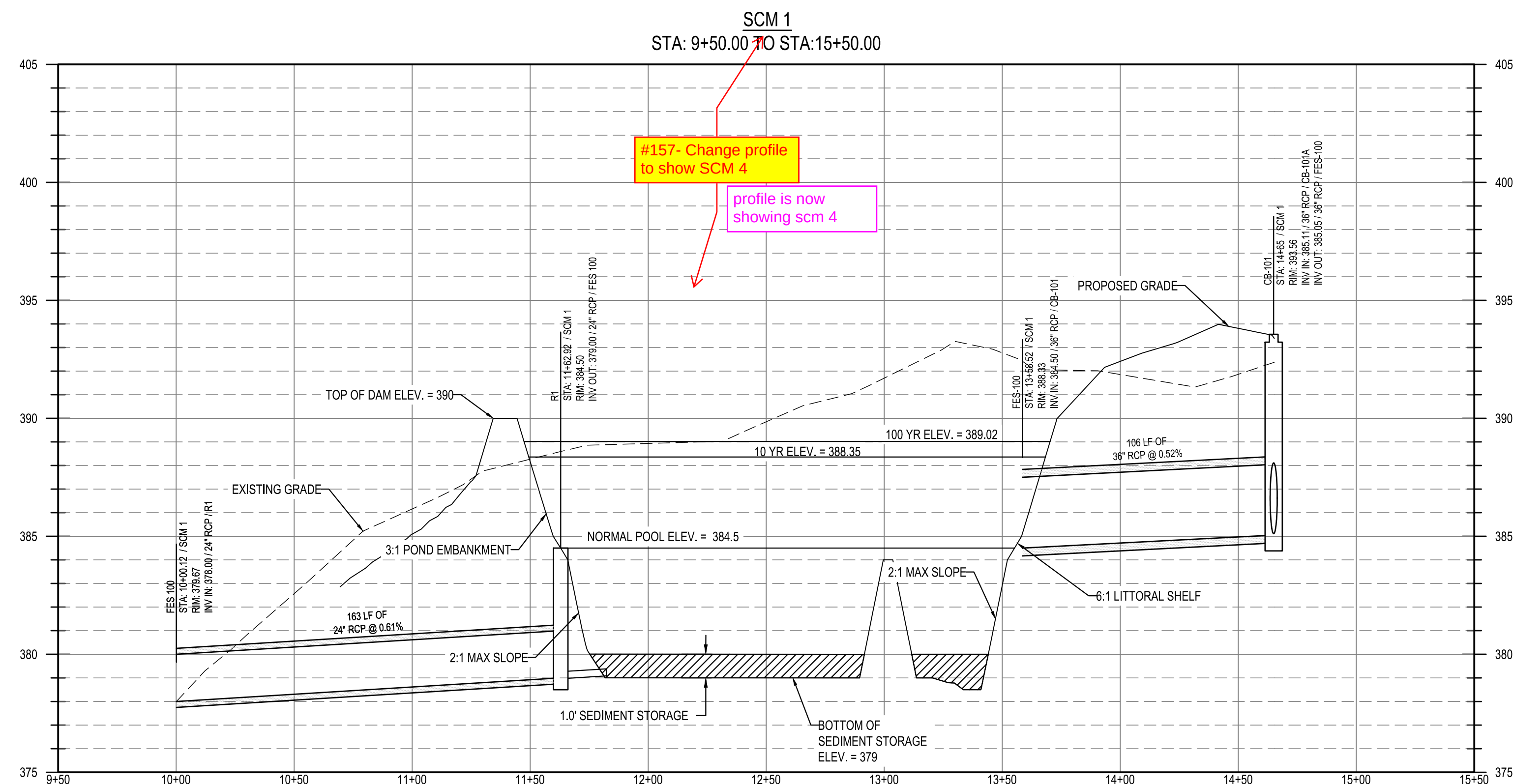
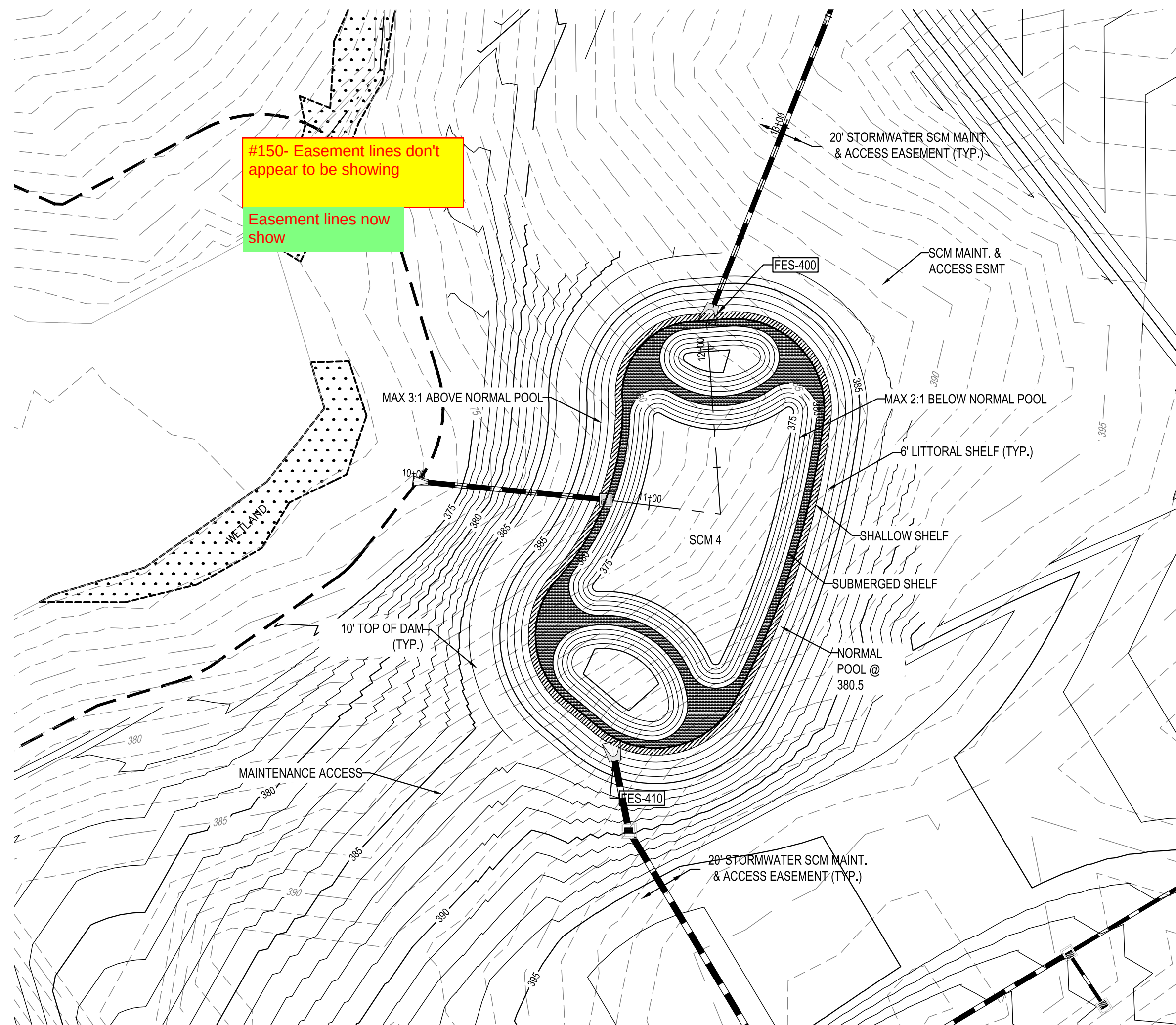


RISER STRUCTURE - SOUTH
N.T.S.



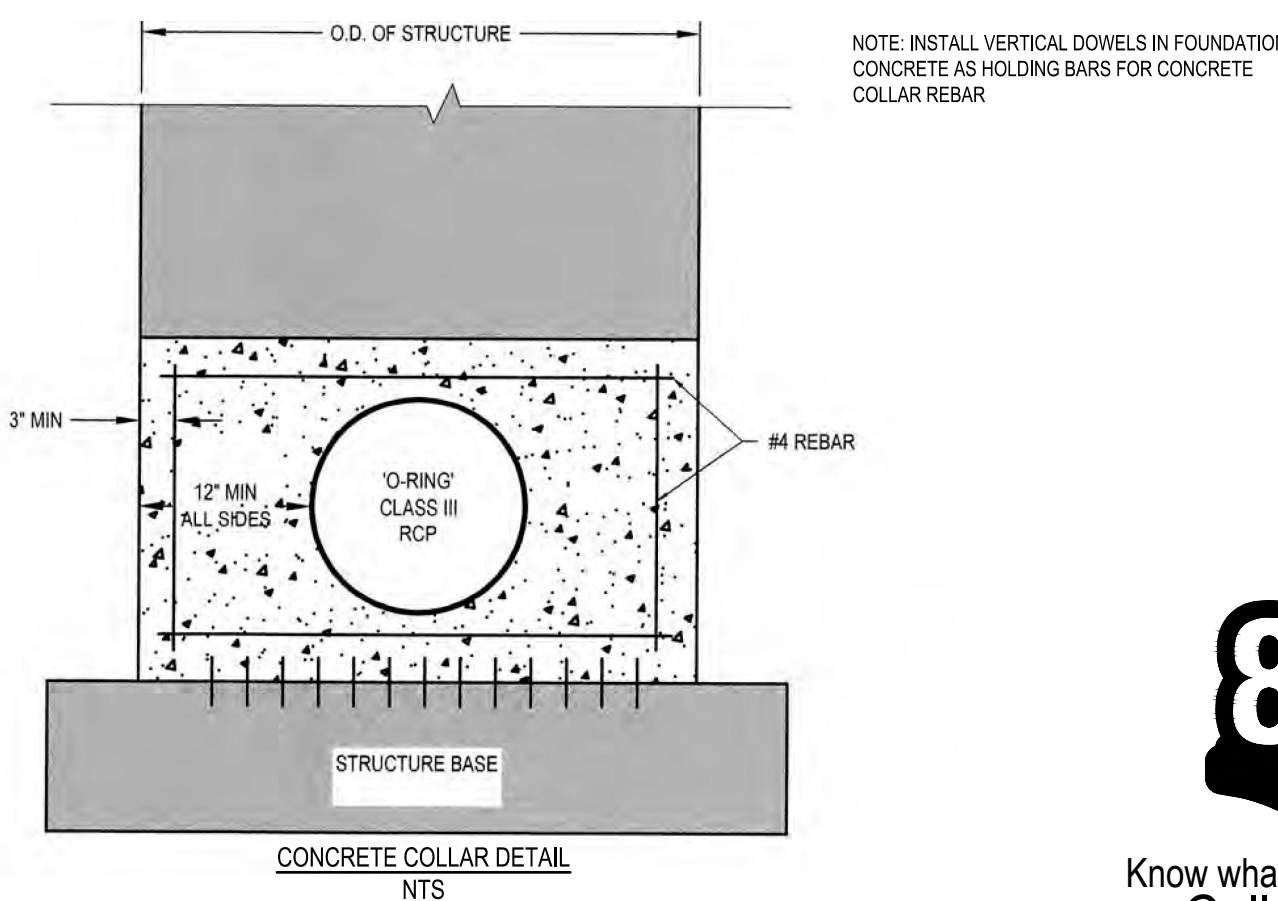
4" ORIFICE UPTURNED PIPE
N.T.S.





Normal Pipe Size	DM A (10'-0")	DM B (10'-0")	DM C (10'-0")	DM D (10'-0")	DM E (10'-0")	DM F (10'-0")
24"	10	10	10	10	10	10
36"	16	16	16	16	16	16
48"	24	24	24	24	24	24
60"	36	36	36	36	36	36
72"	48	48	48	48	48	48
84"	60	60	60	60	60	60
96"	72	72	72	72	72	72
108"	84	84	84	84	84	84
120"	96	96	96	96	96	96

OUTLET PIPE FILTER DIAPHRAGM NTS



Know what's below.
Call before you dig.

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

06/01/2023

04/03/2023

PER TOWN OF ROLESVILLE COMMENT

INITIAL SUBMITTAL

5440 WADE PARK BLVD, SUITE 102

RALEIGH NC 27607

WWW.BCEINC.COM

NC LICENSE #C-4397

LENNA

CORPORAION

1100 PERIMETER PARK DRIVE, SUITE 112

MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET

ROLESVILLE / NORTH CAROLINA / 27571

SCM 4 PLAN AND PROFILE

PRELIMINARY

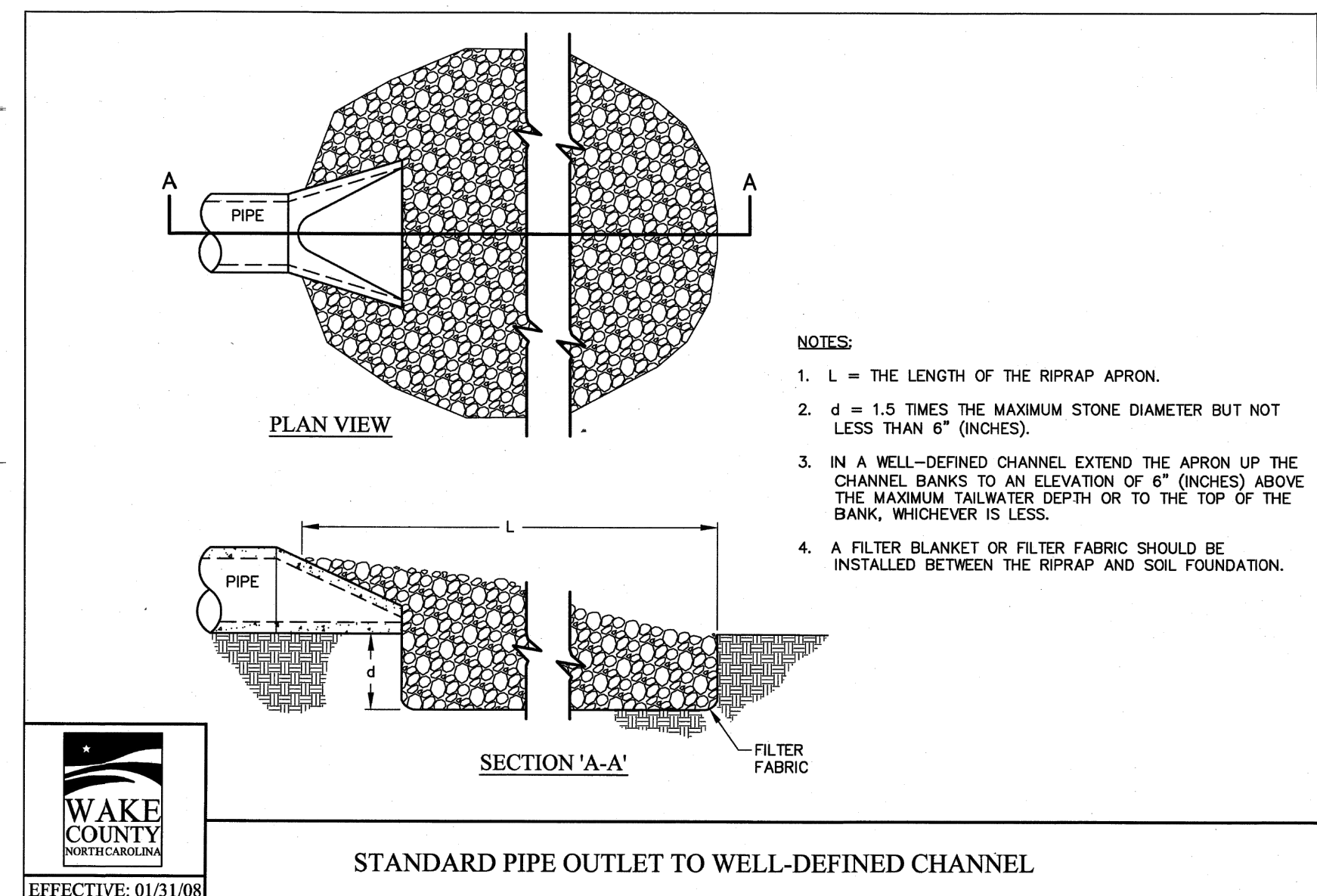
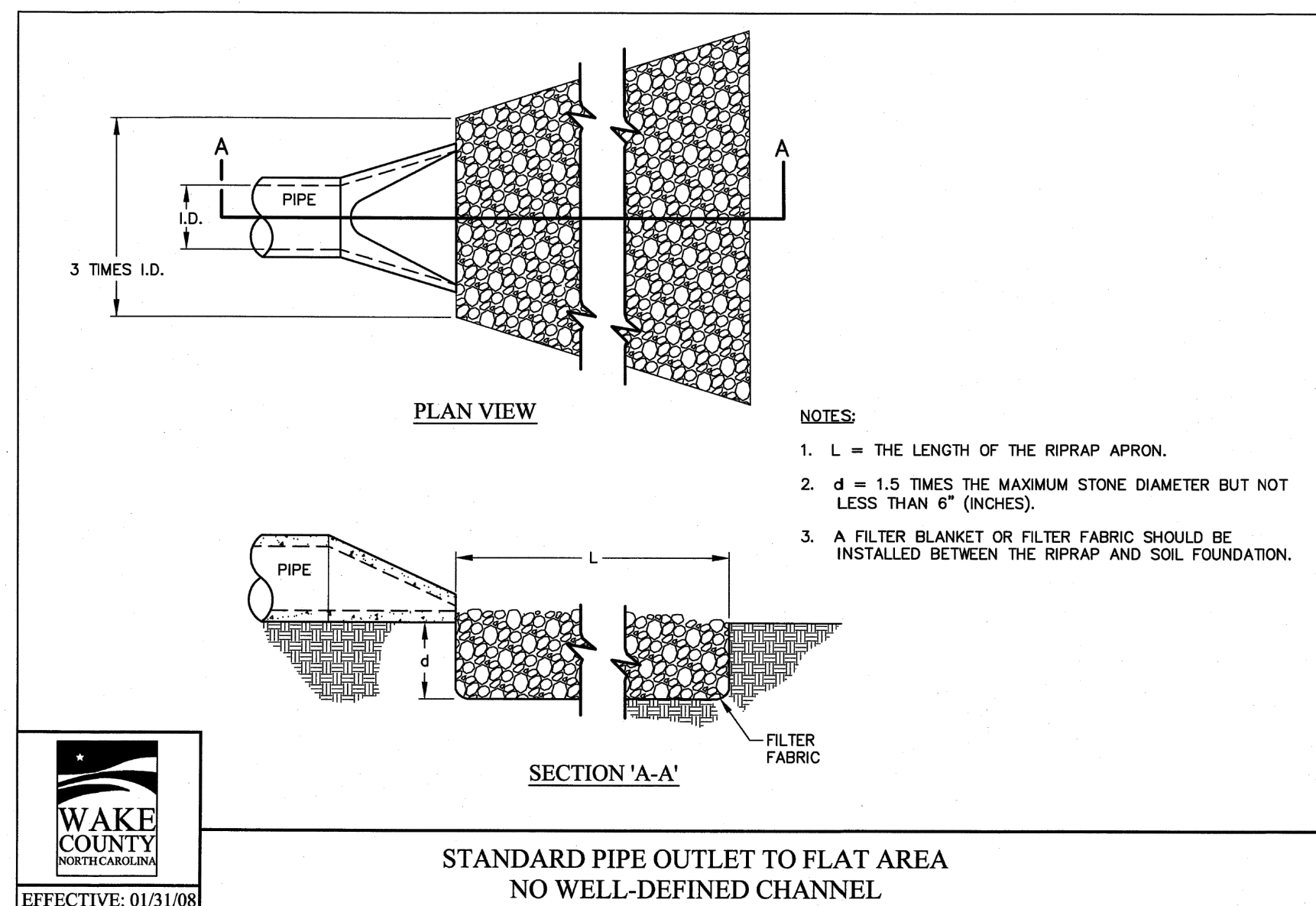
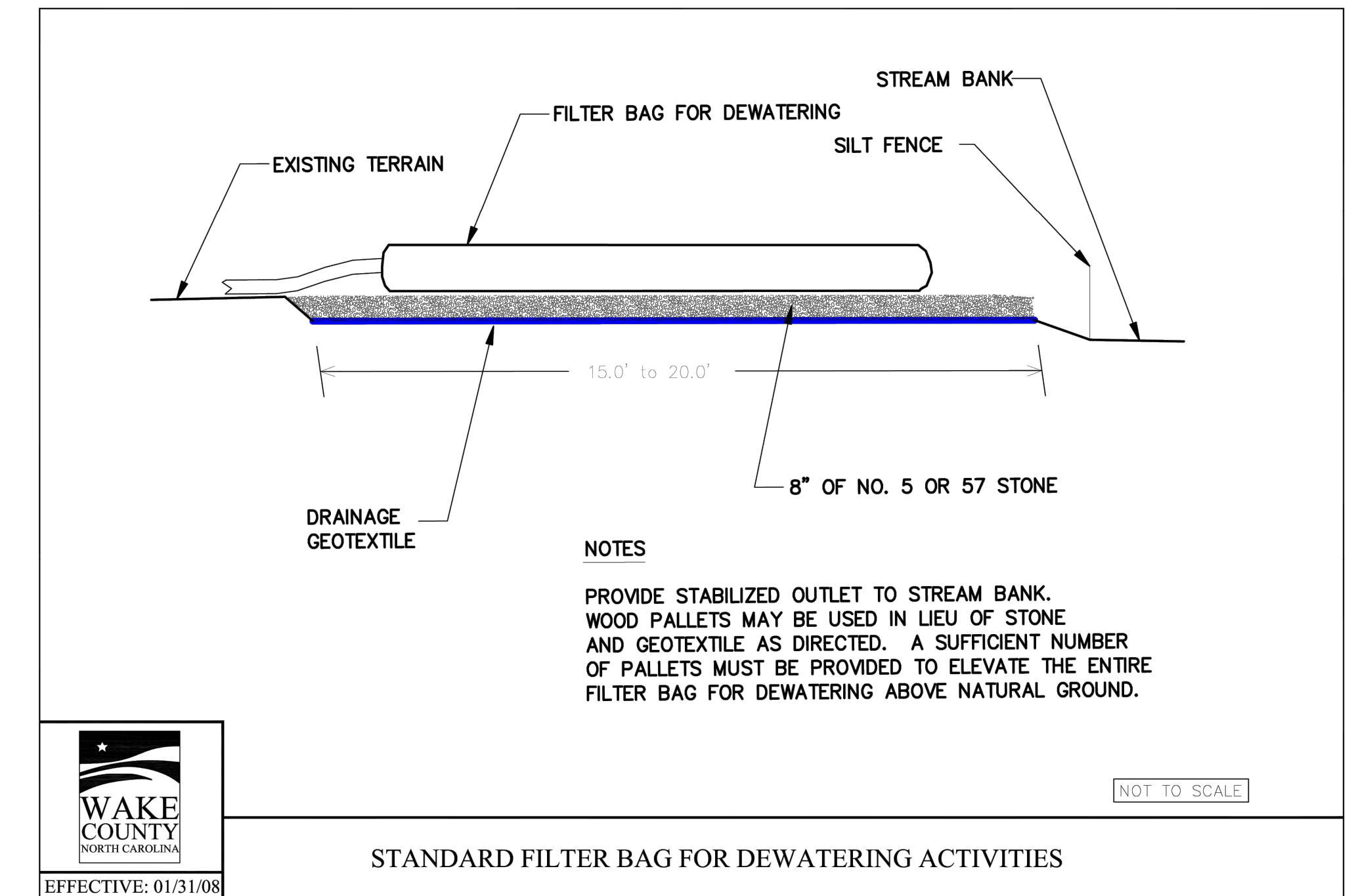
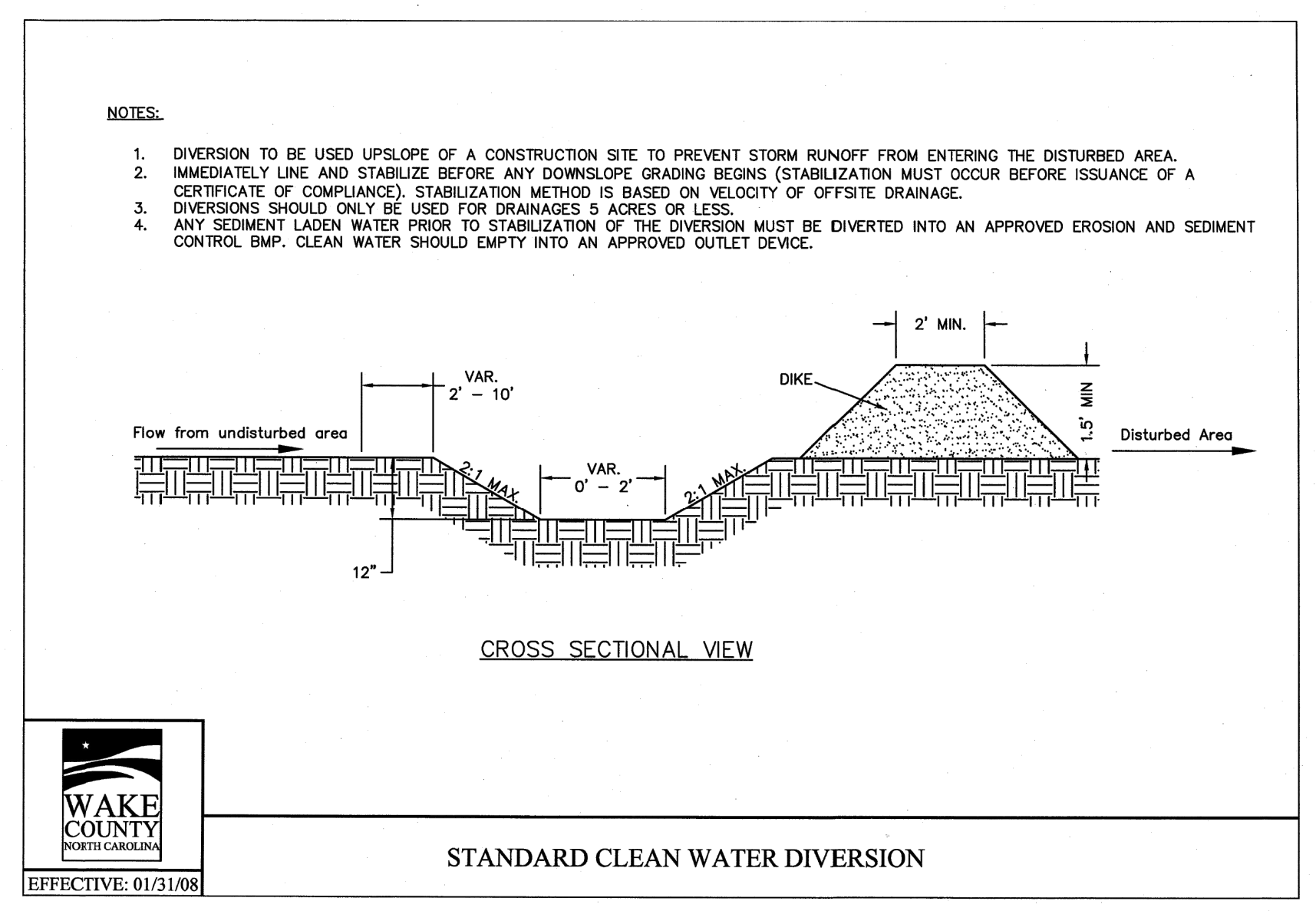
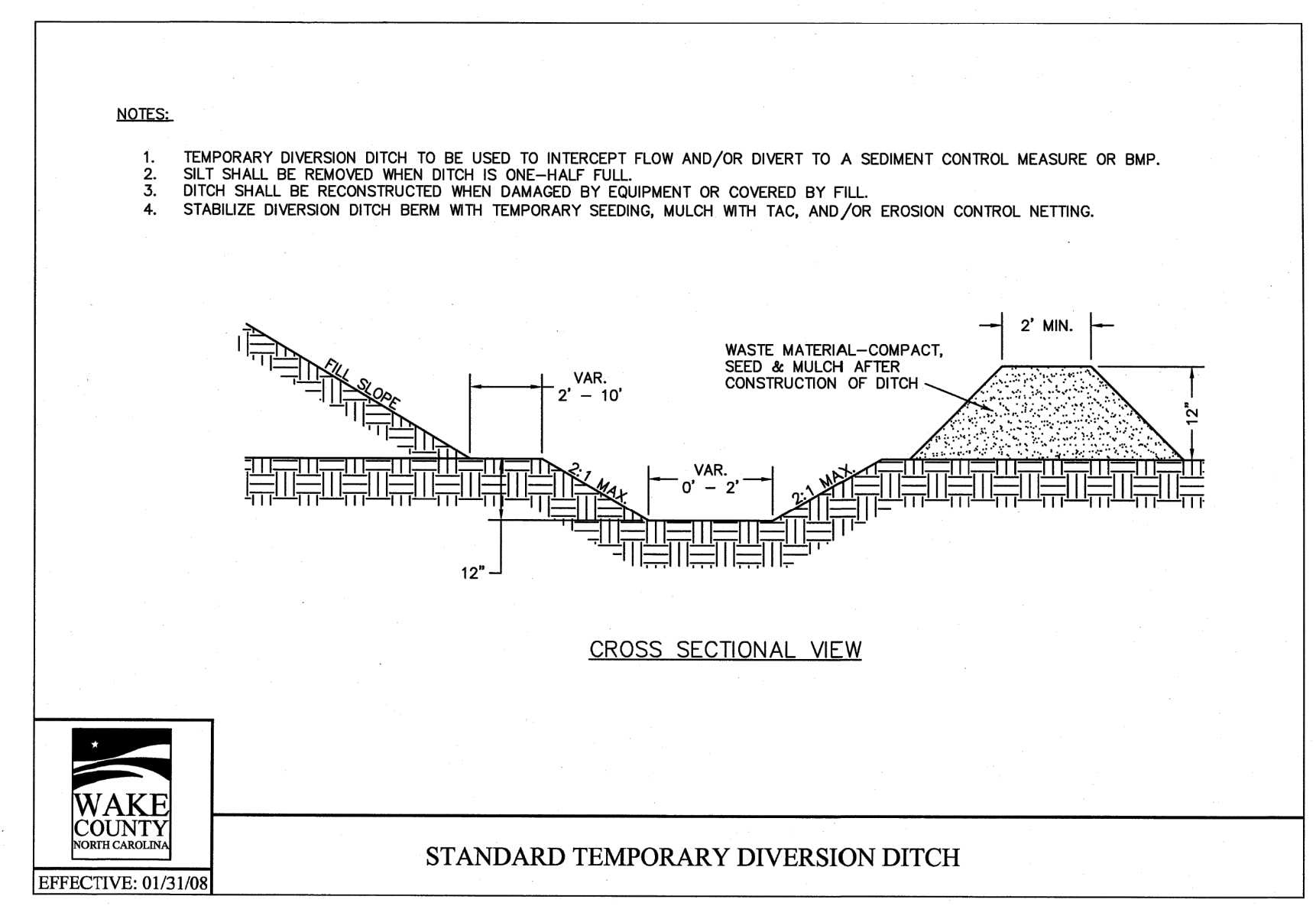
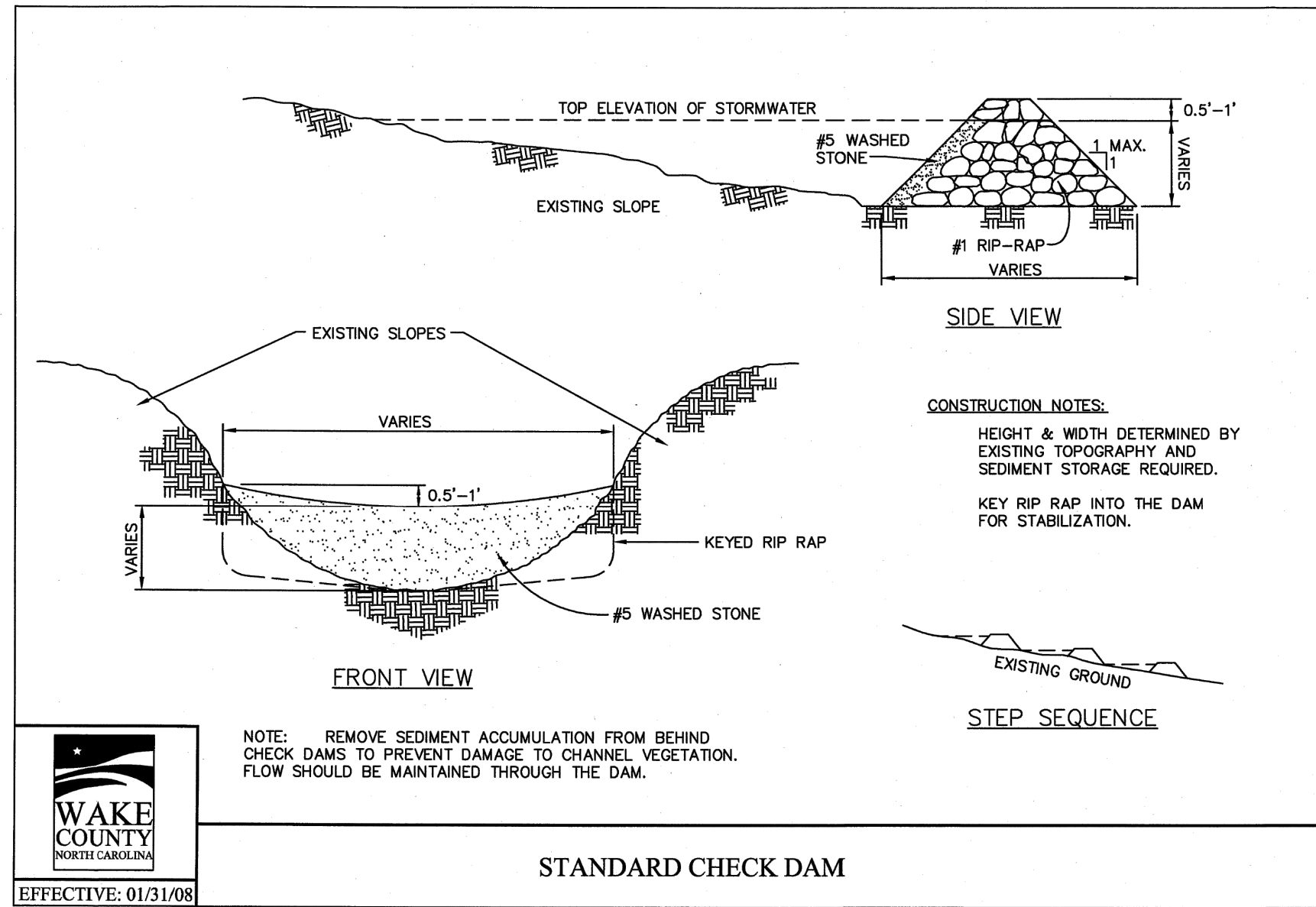
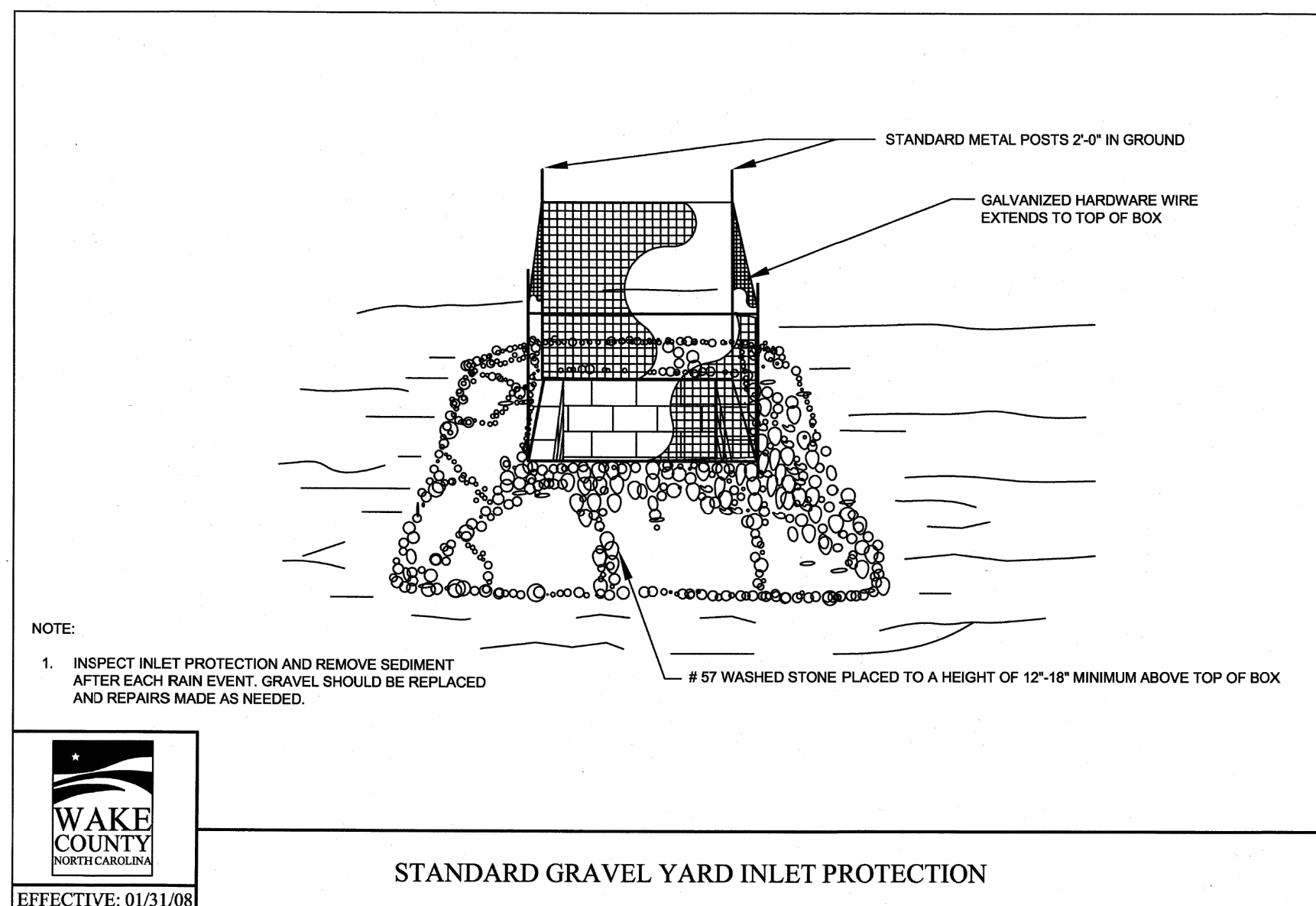
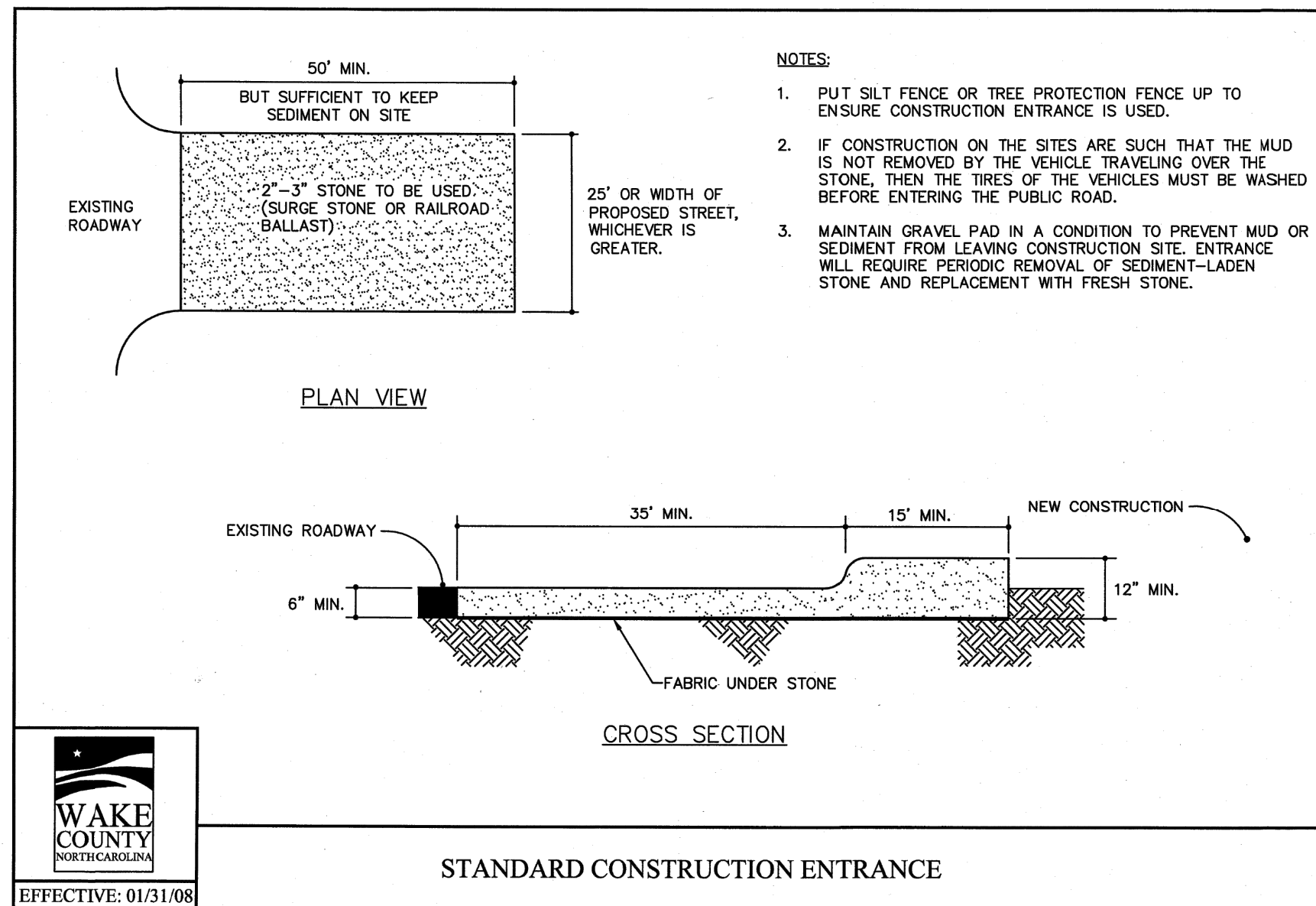
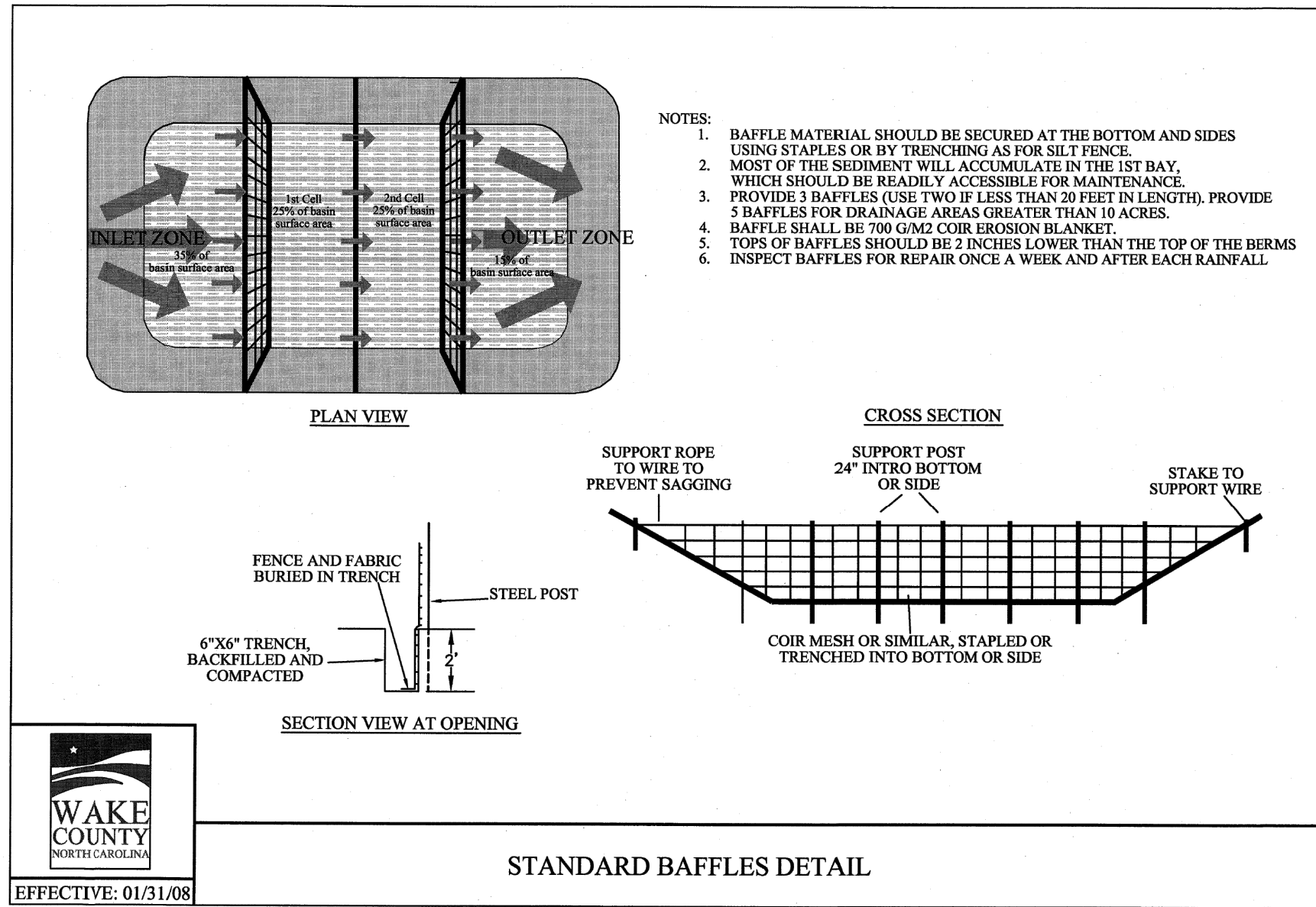
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 06/01/2023

C7-3

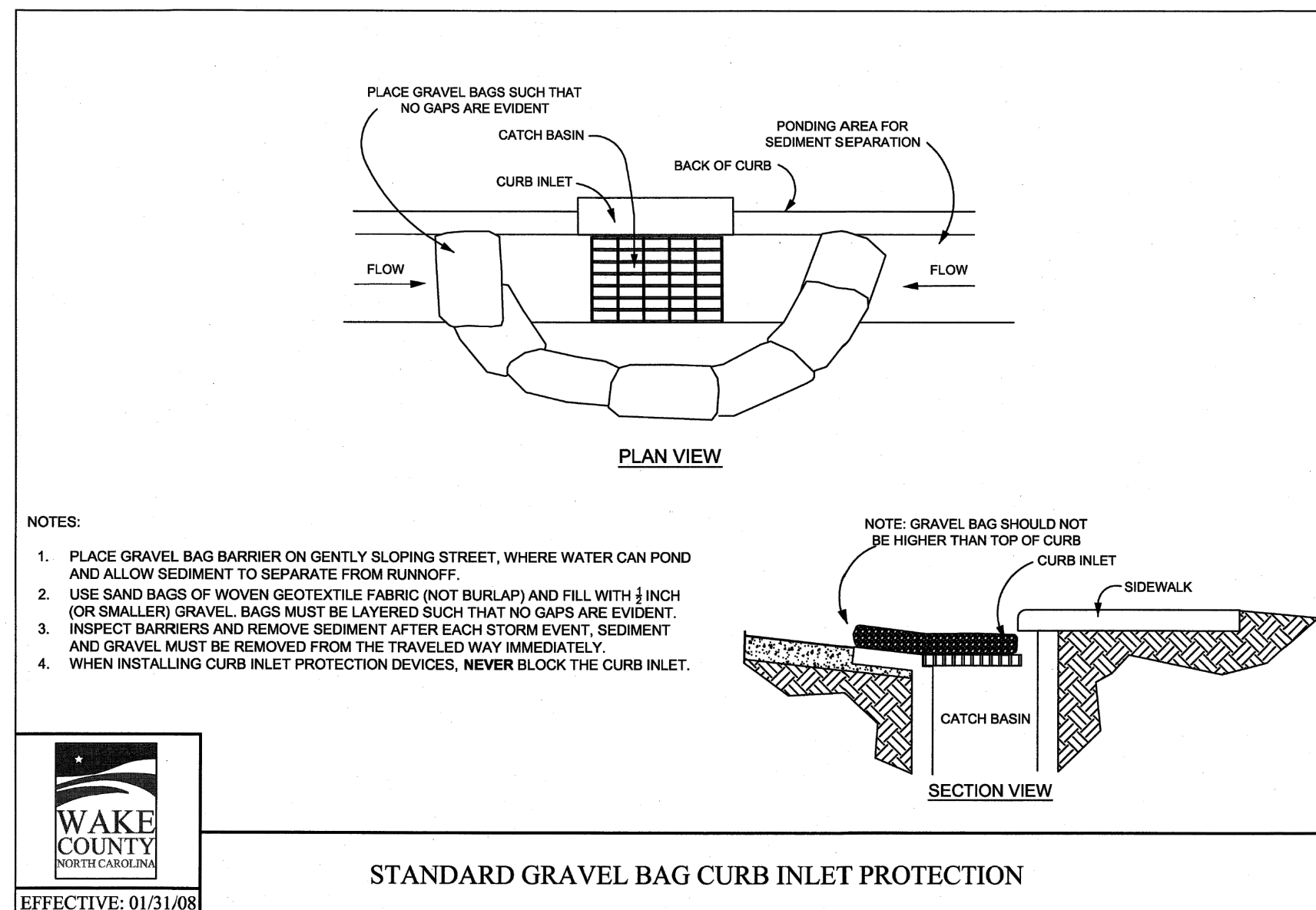
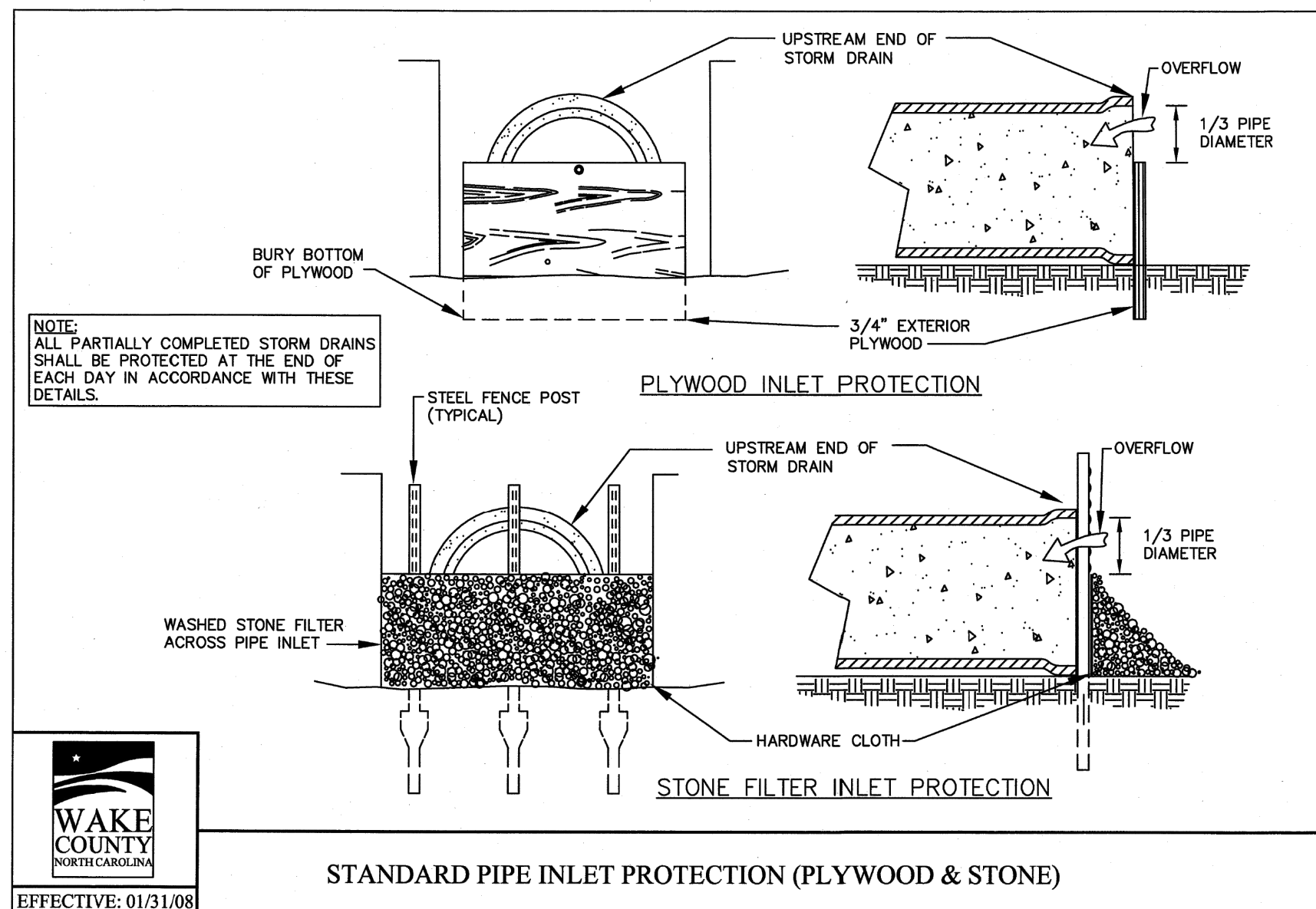
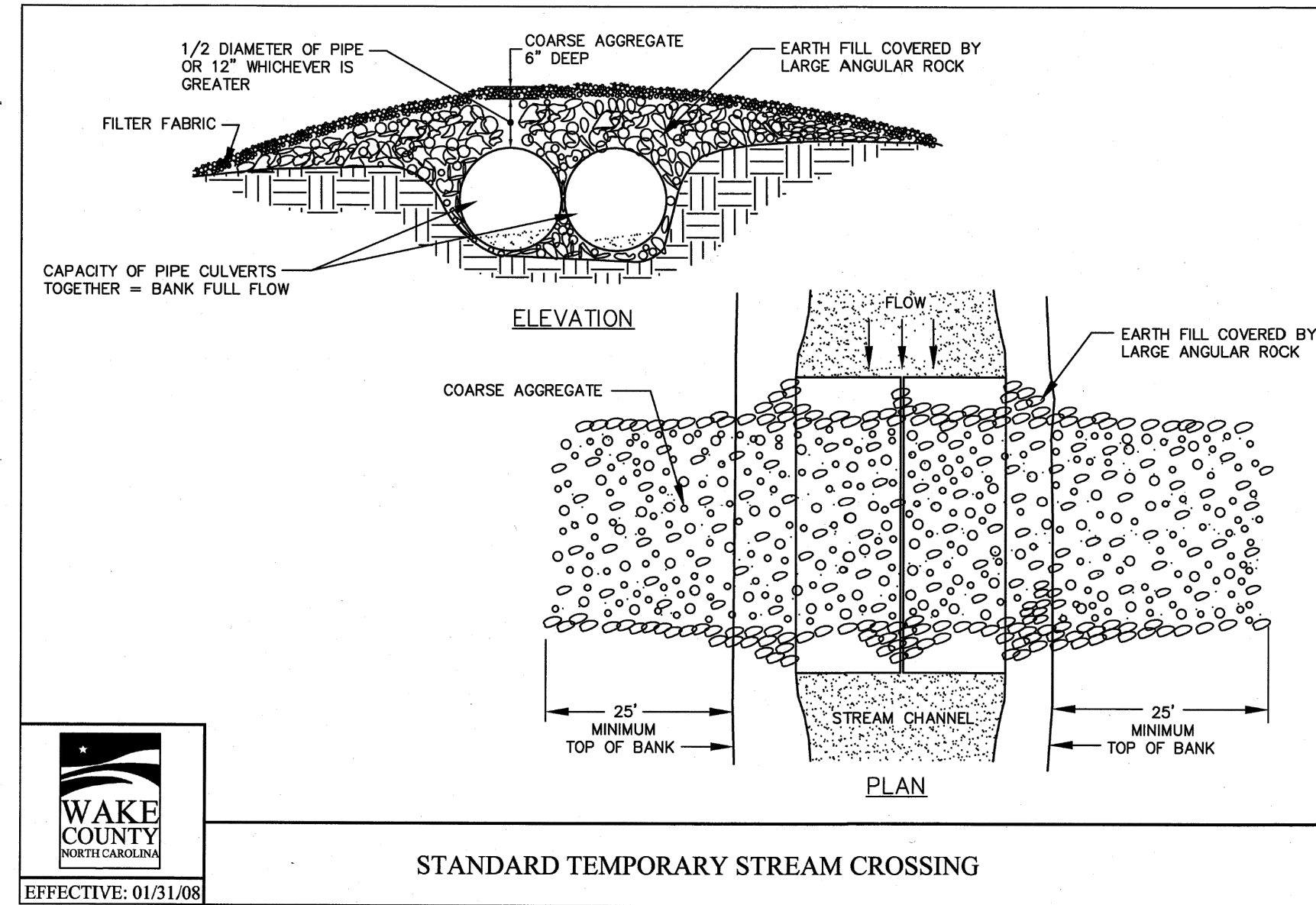
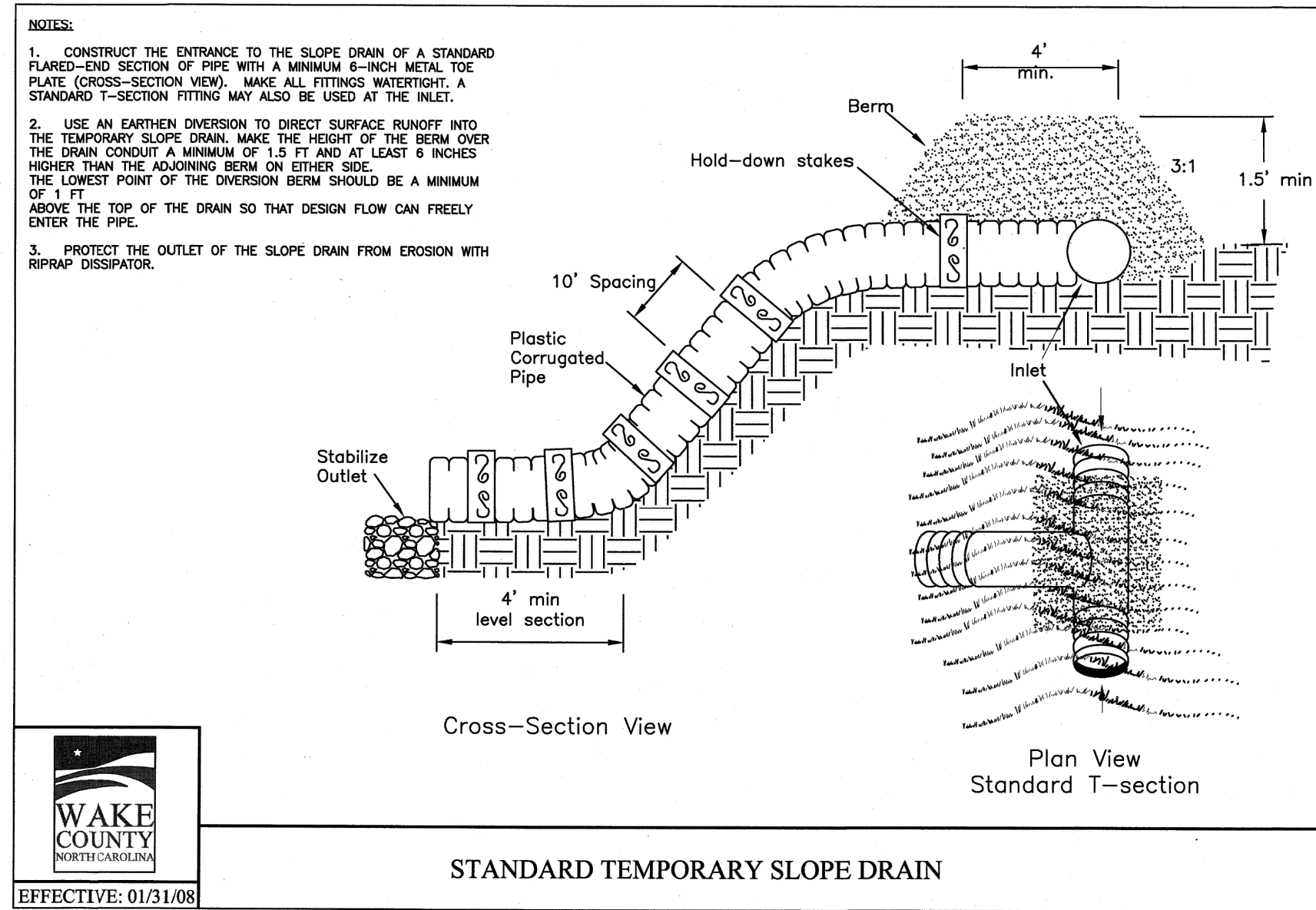
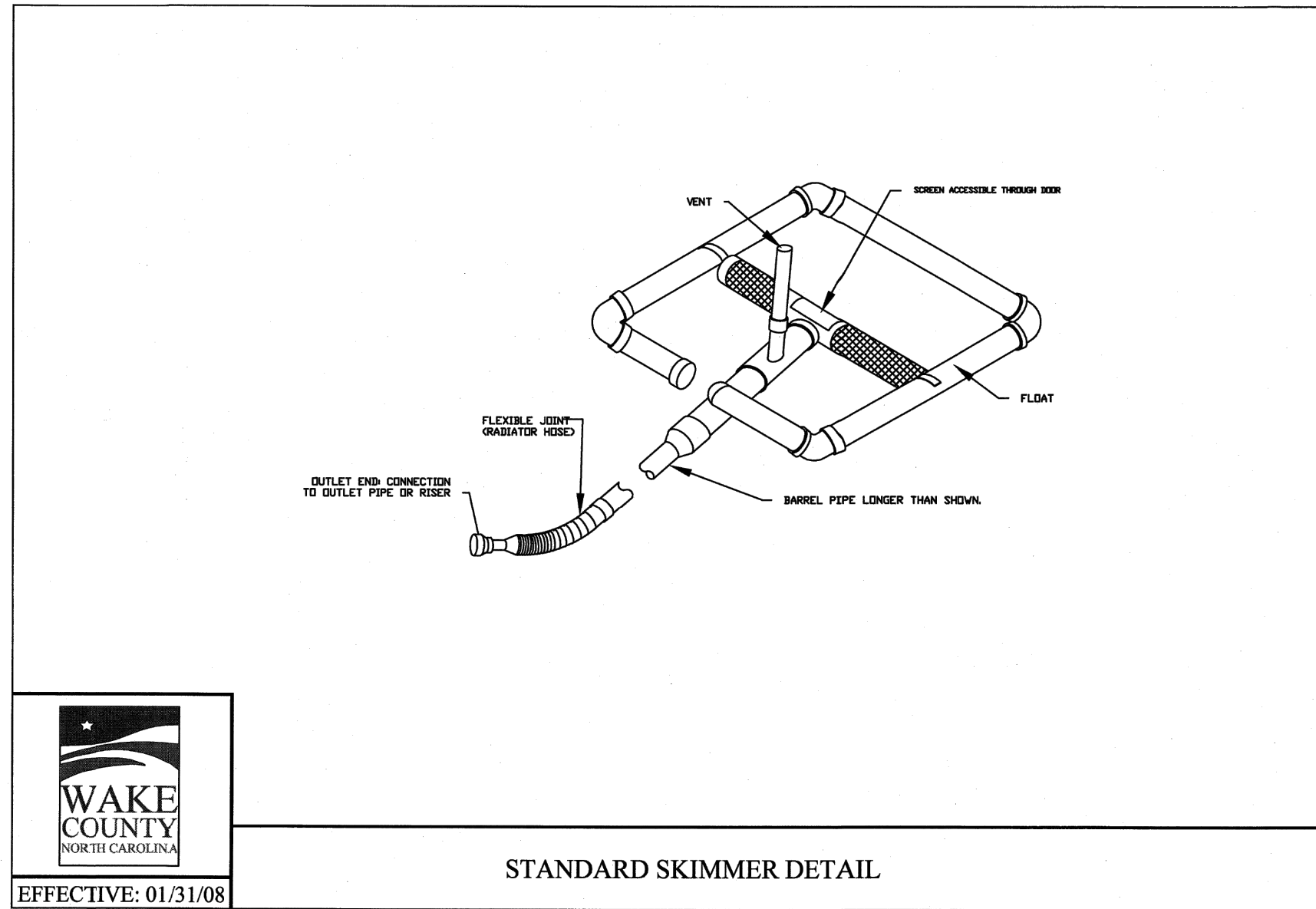
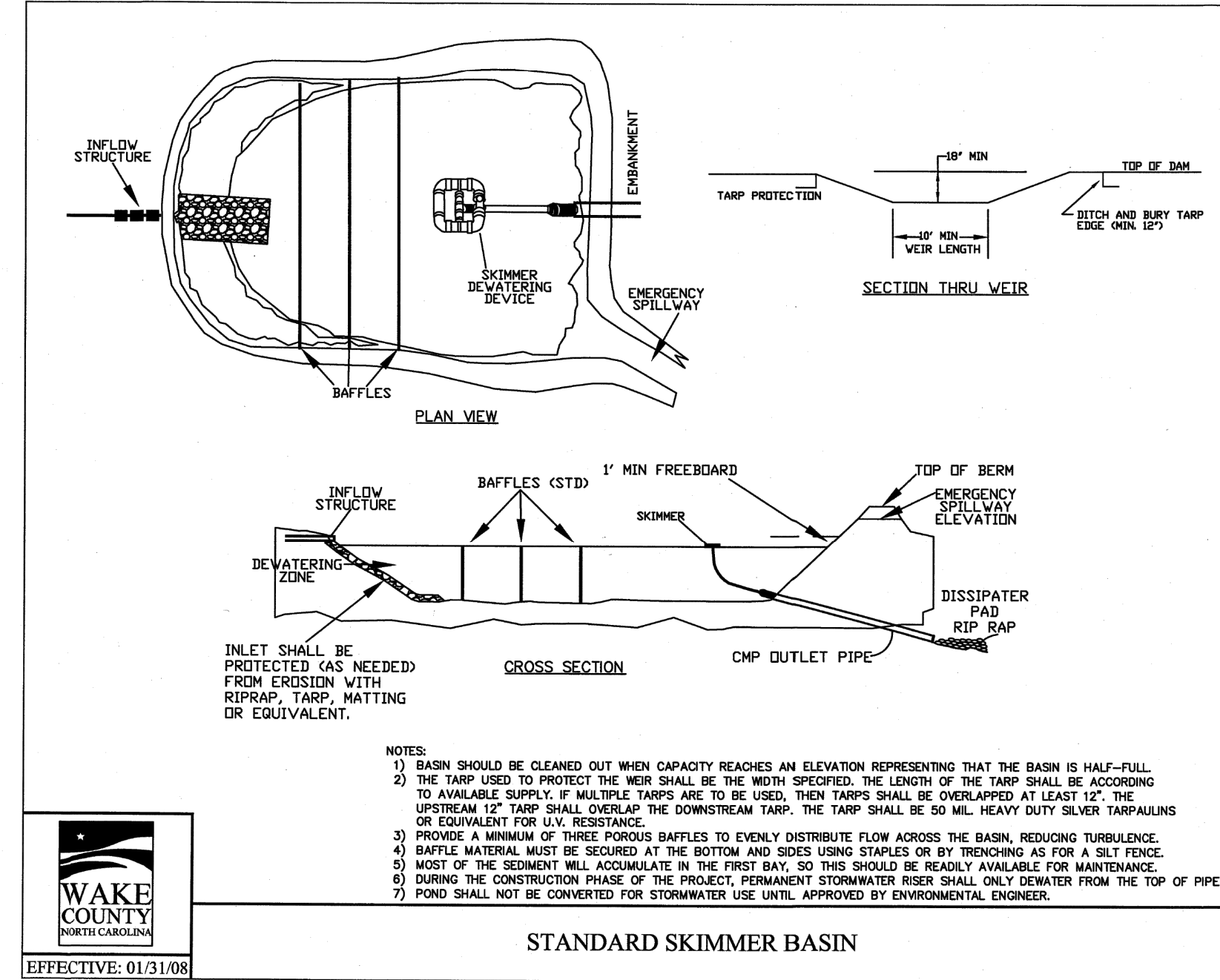
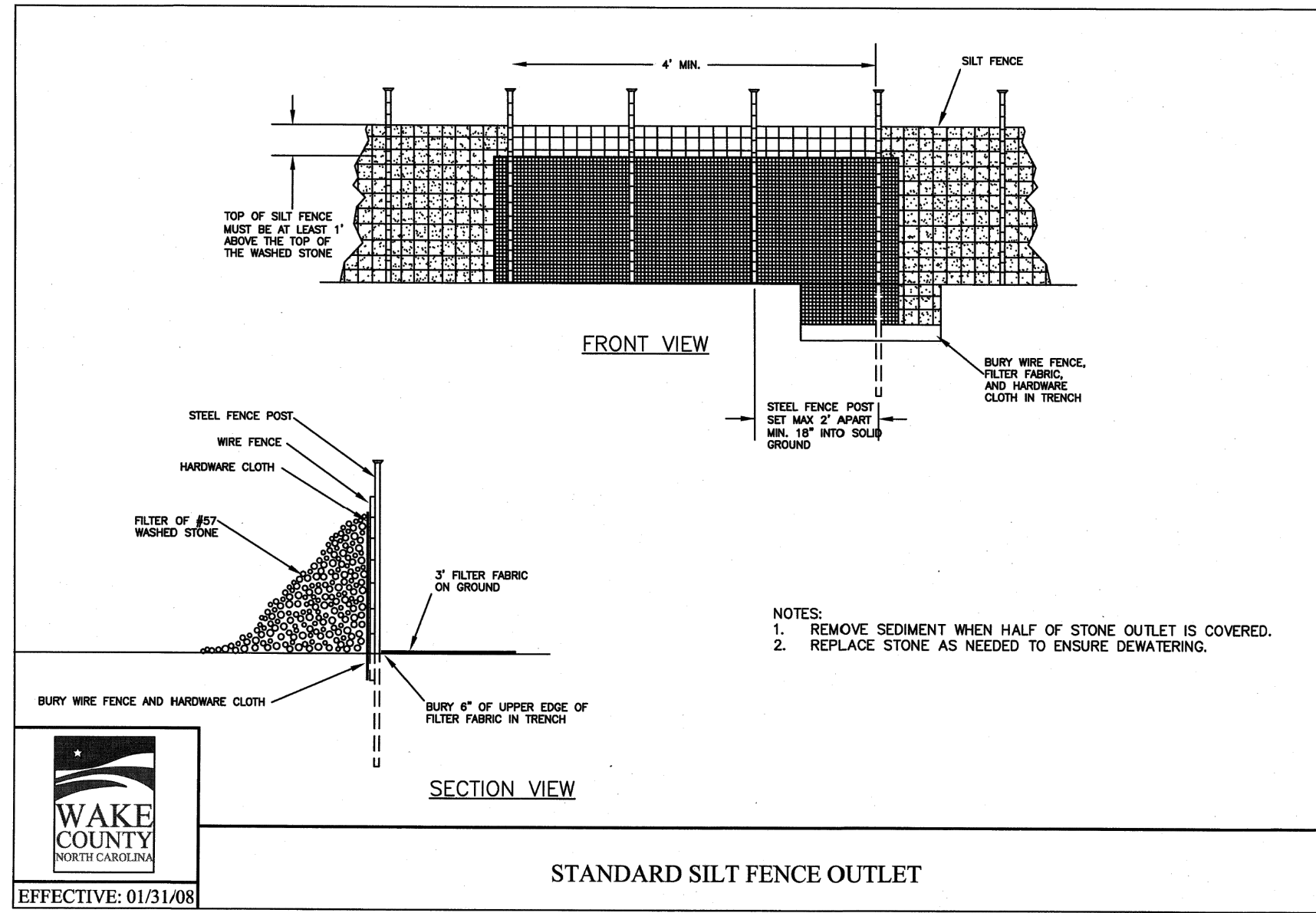
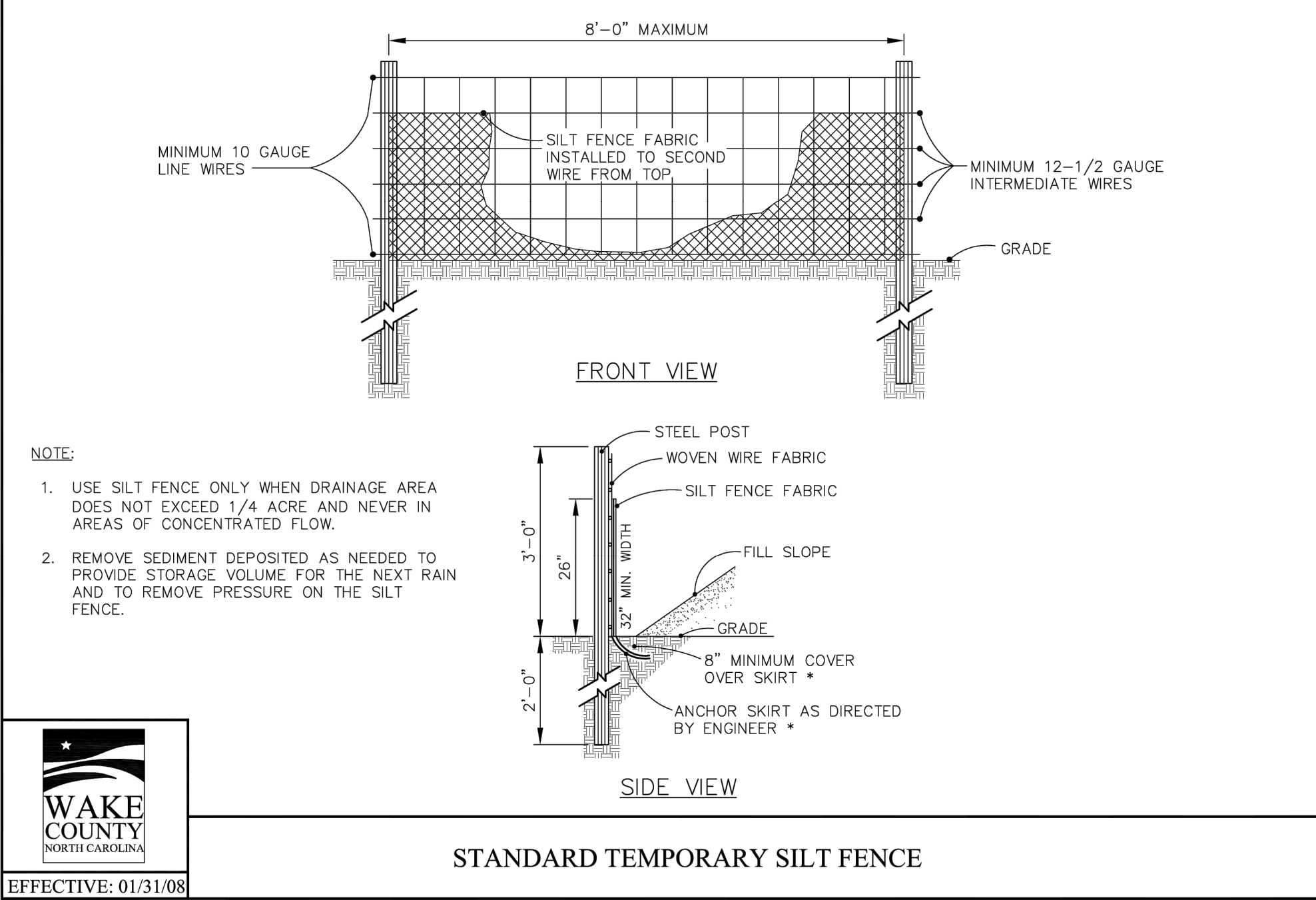
\\browgway.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - DWG\PlanSheets\On-Site\C2-2 - EROS-DET1.dwg Layout: C8-2 EROSION CONTROL DETAILS (1 OF 2) Plotted: 6/1/2023 3:36:06 PM



PER TOWN OF ROLESVILLE COMMENT		INITIAL SUBMITTAL
06/01/2023	REV	04/03/2023
DESIGNED BY: DF/CD		
DRAWN BY: DF/JWM		
REVIEWED BY: DF		
BCE		
5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397		
LENNAR CORPORATION		
1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560		
PARKER RIDGE		
82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571		
EROSION CONTROL DETAILS (1 OF 2)		
PRELIMINARY		
NOT FOR CONSTRUCTION		
FILE NUMBER: 8430-03		
DATE: 06/01/2023		
C8-2		

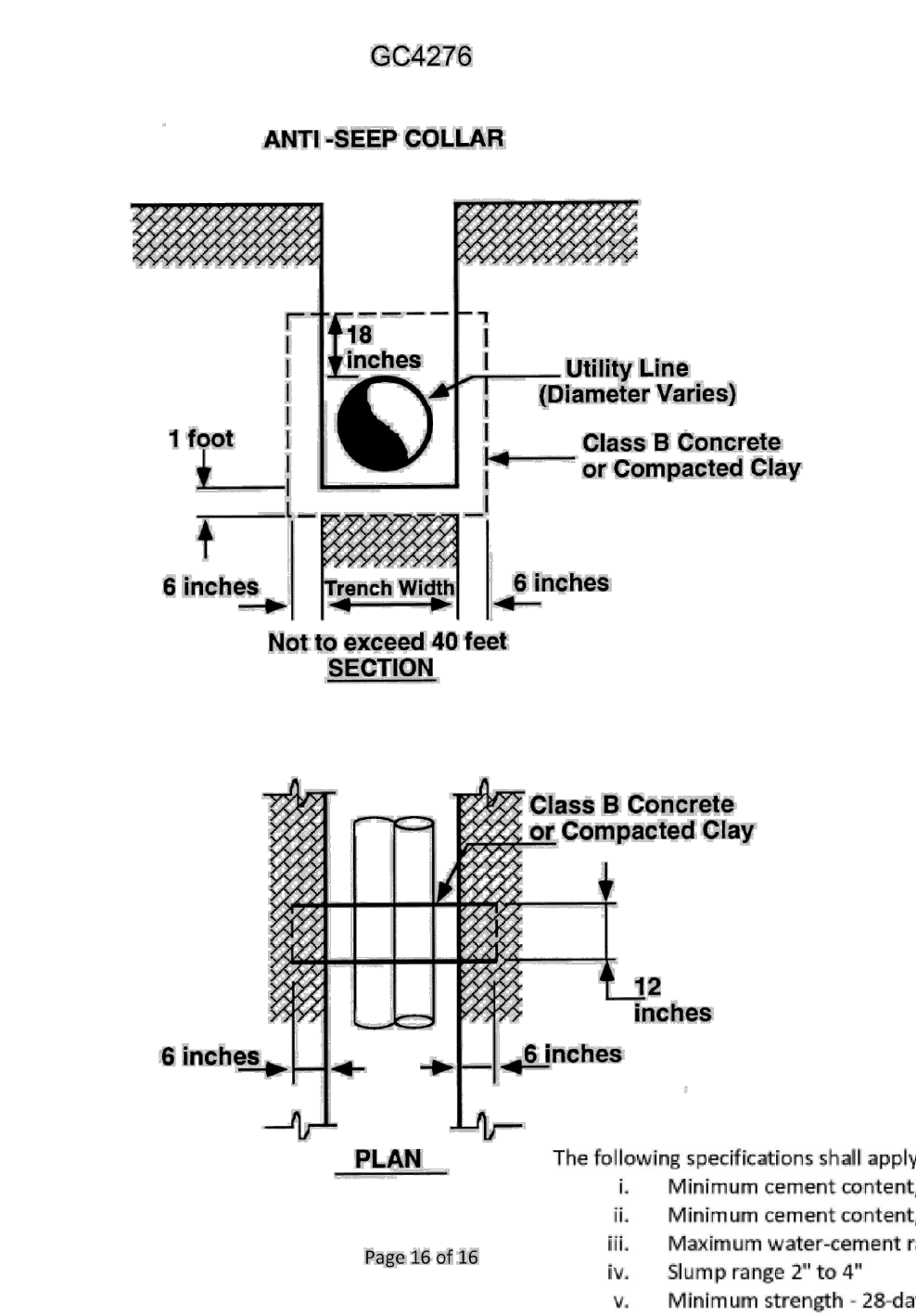
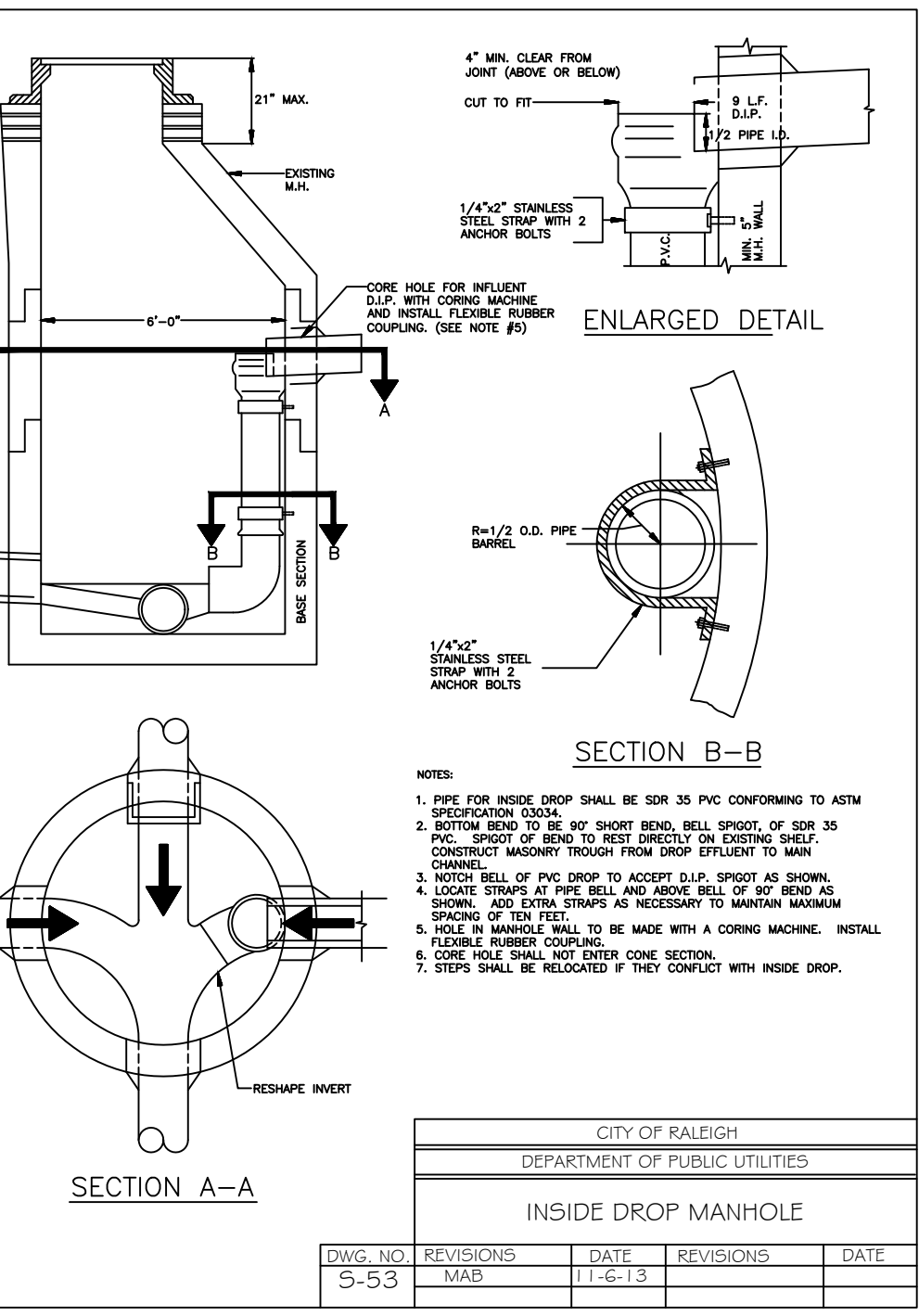
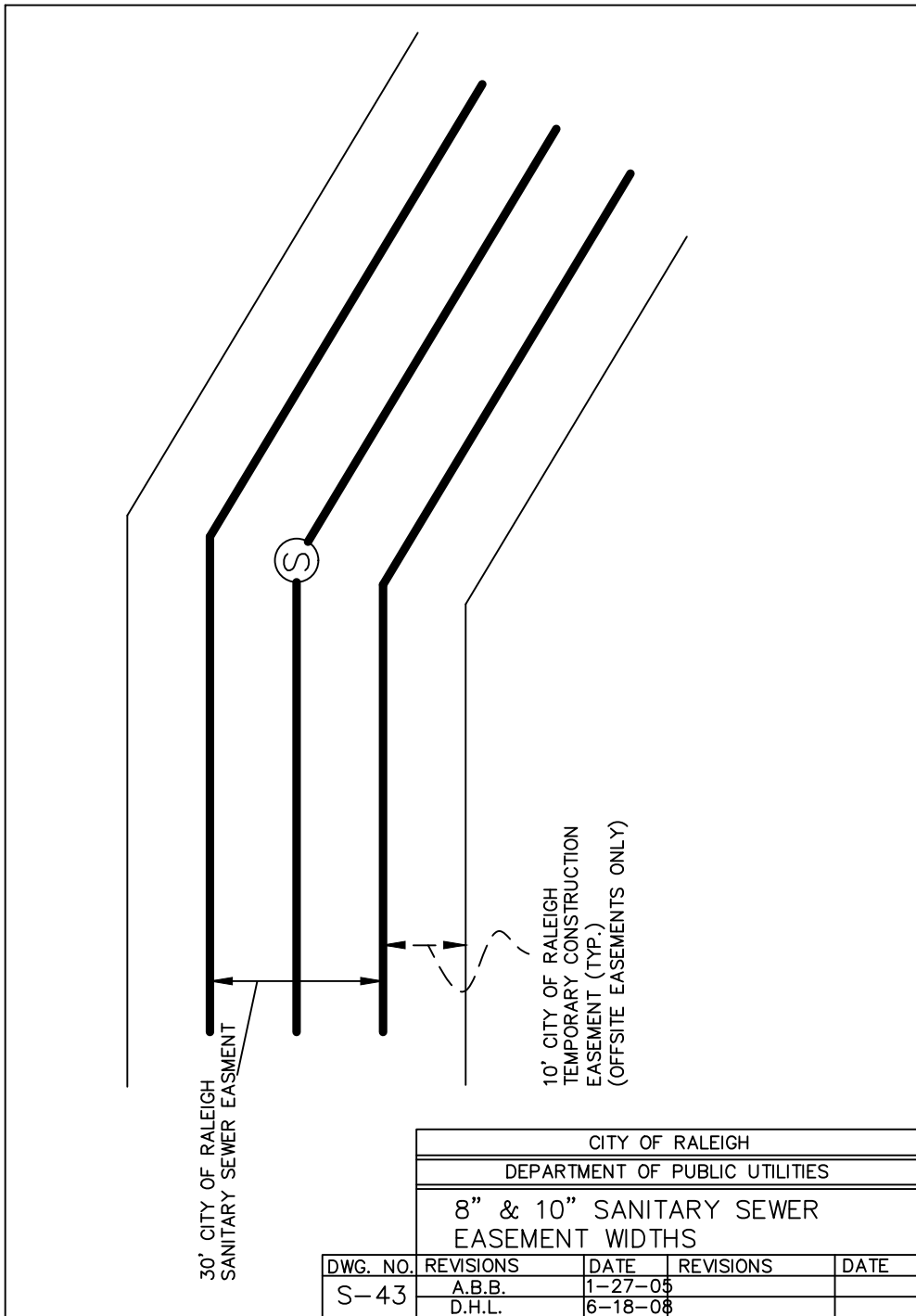
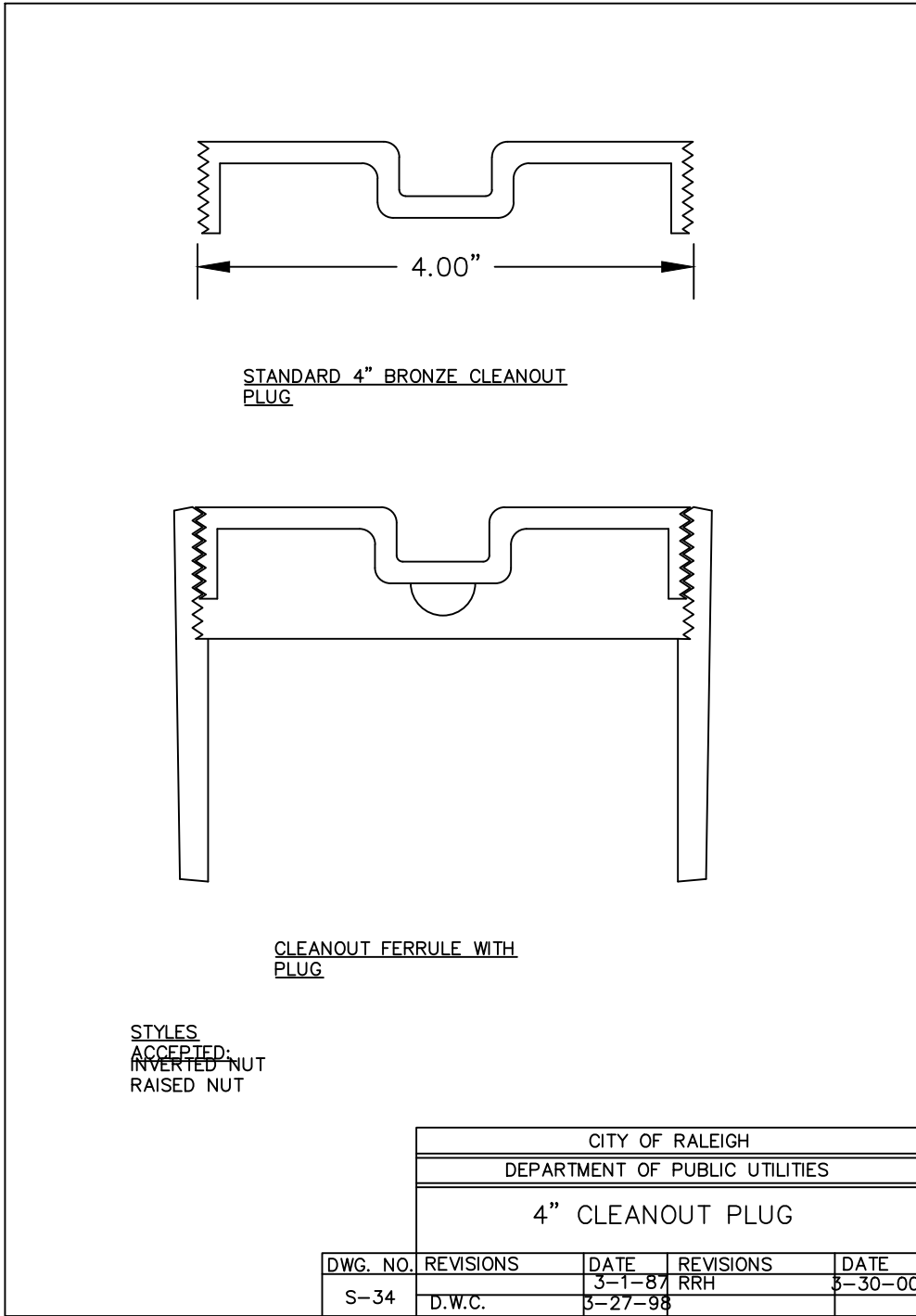
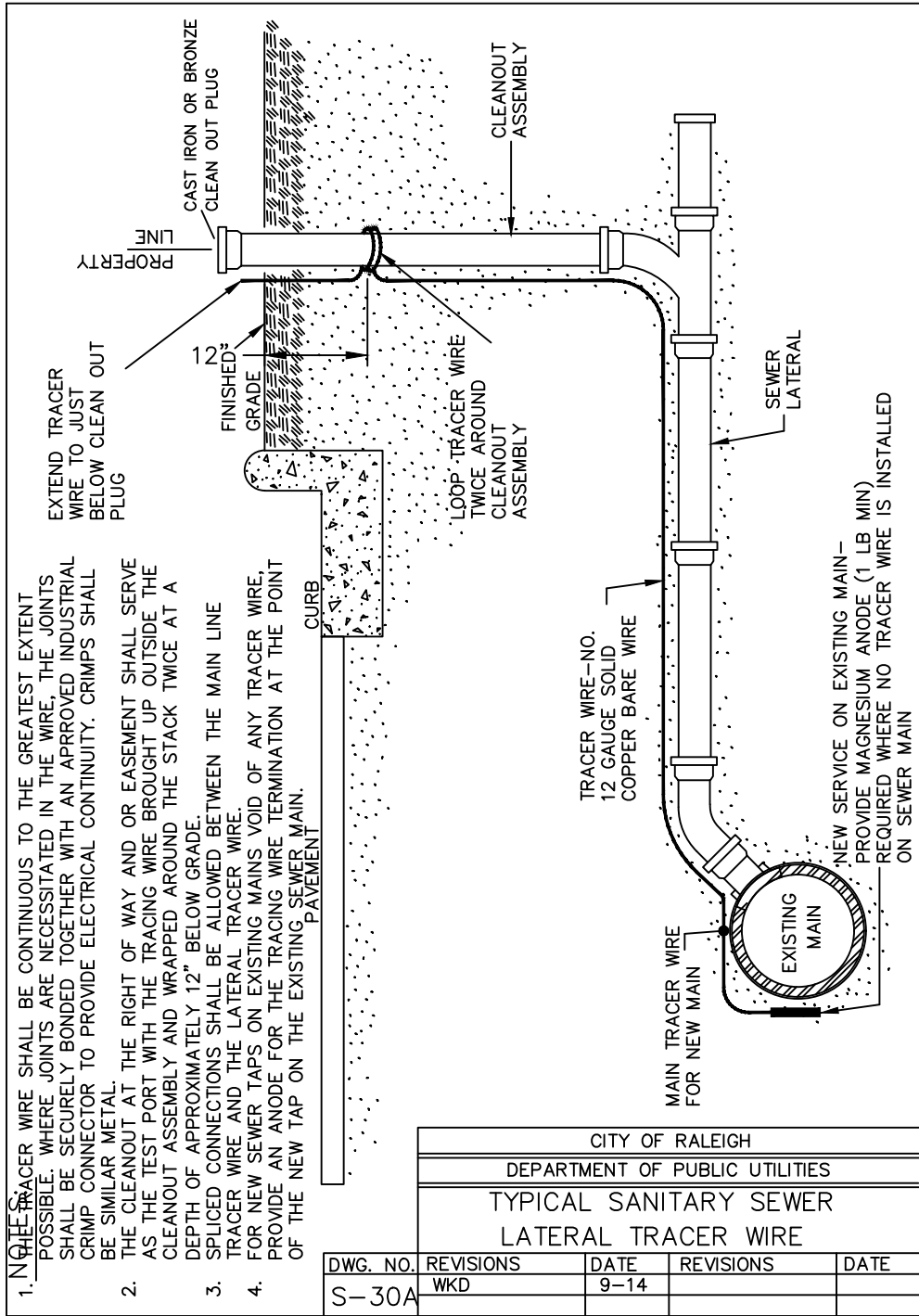
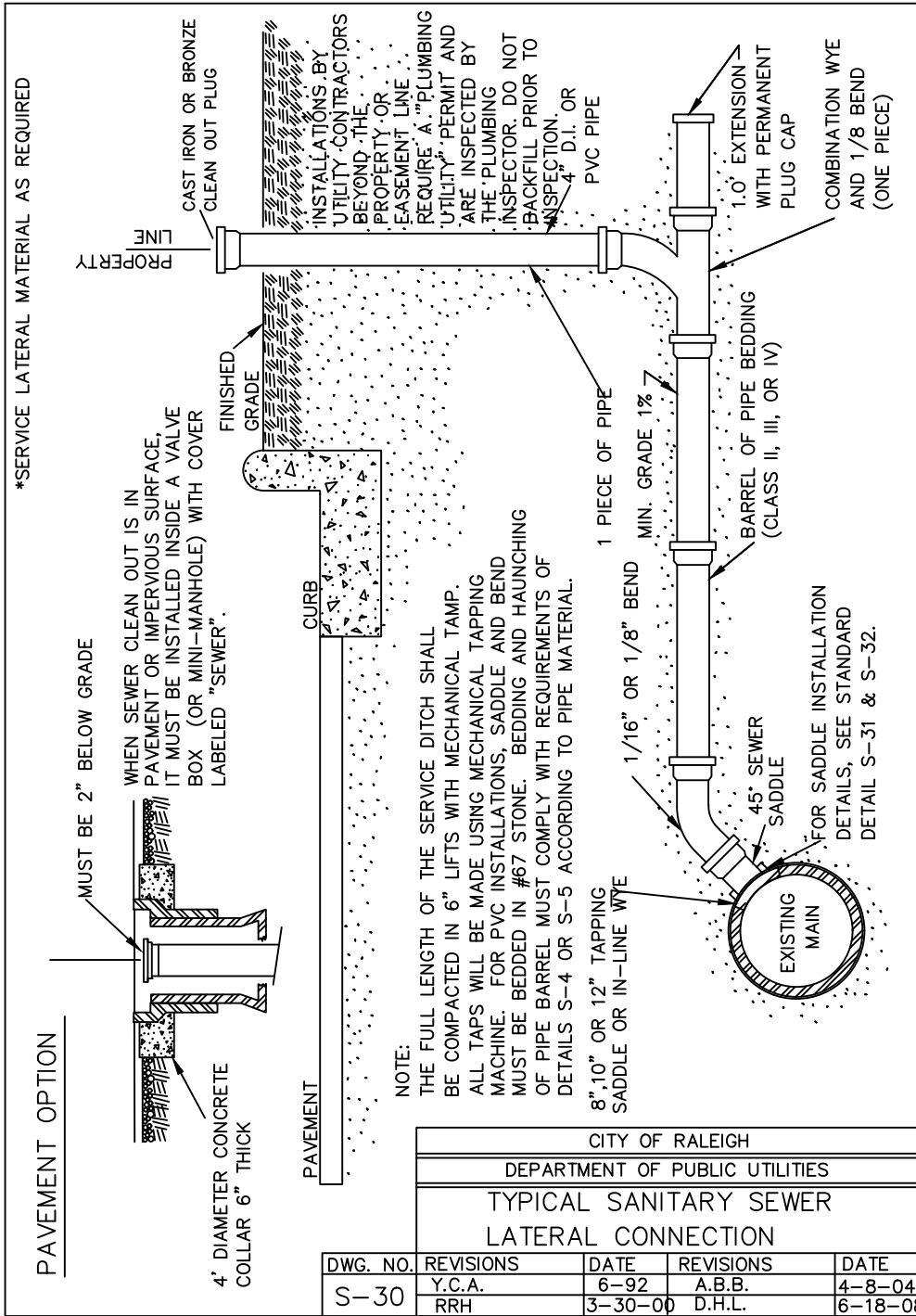
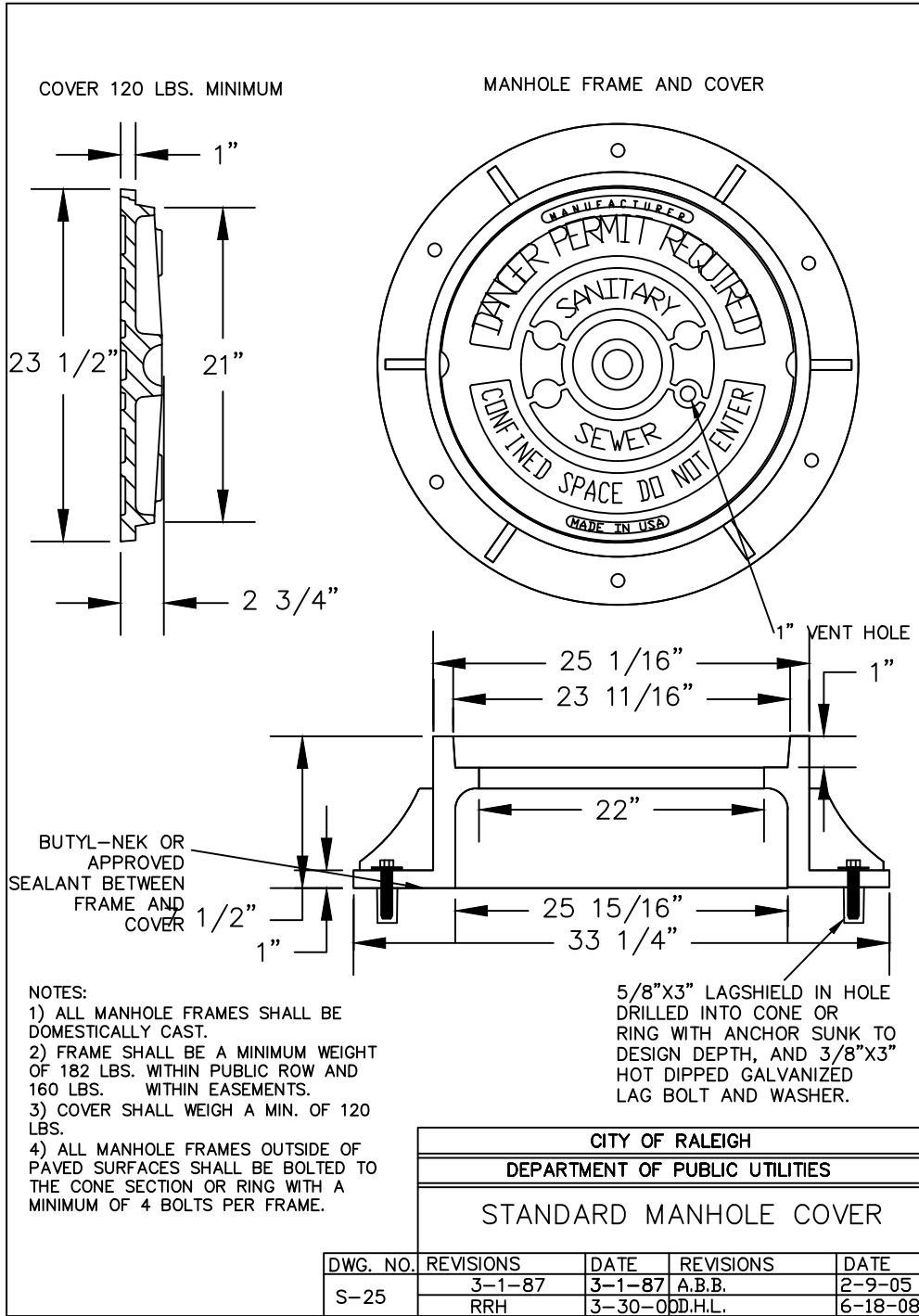
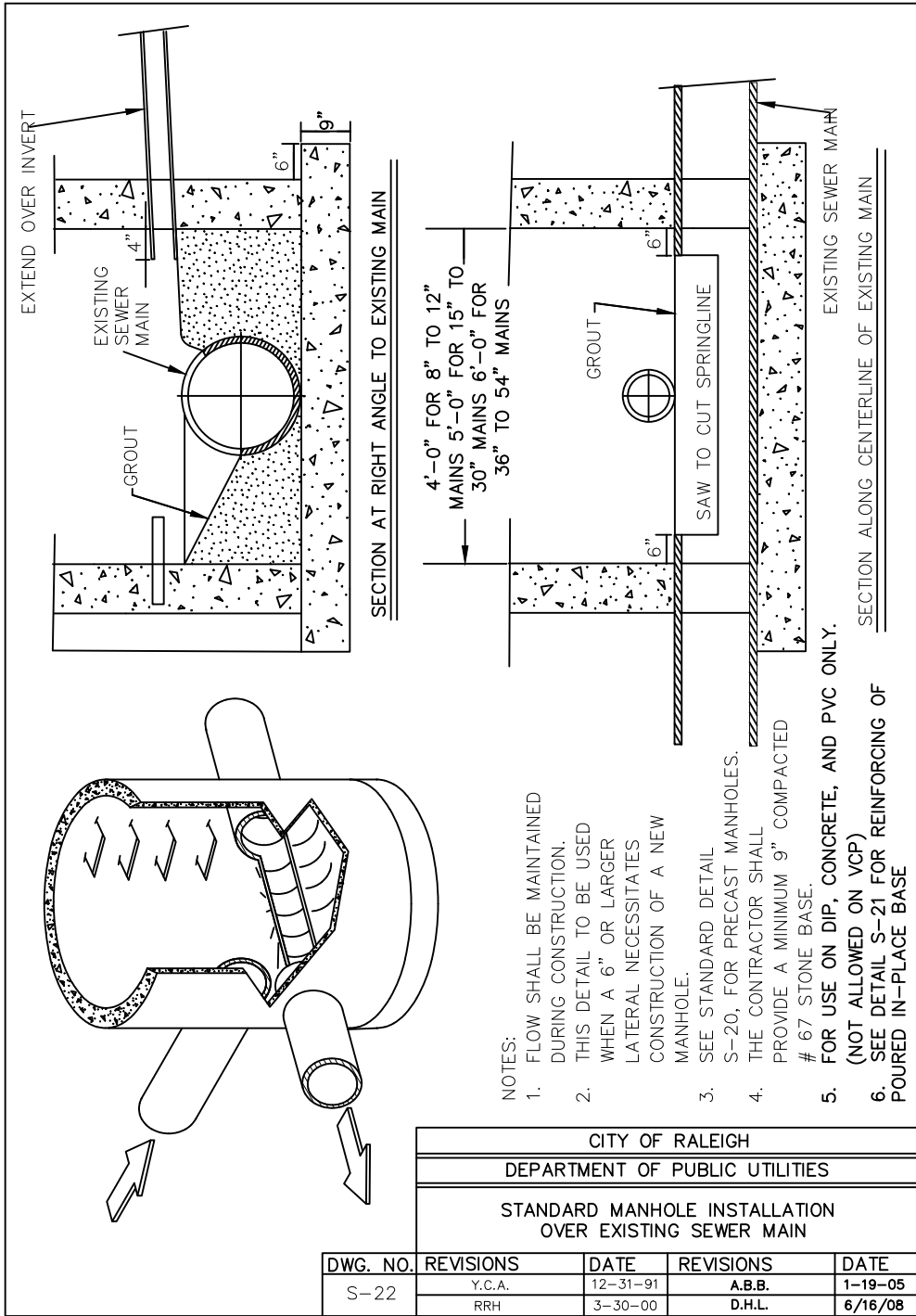
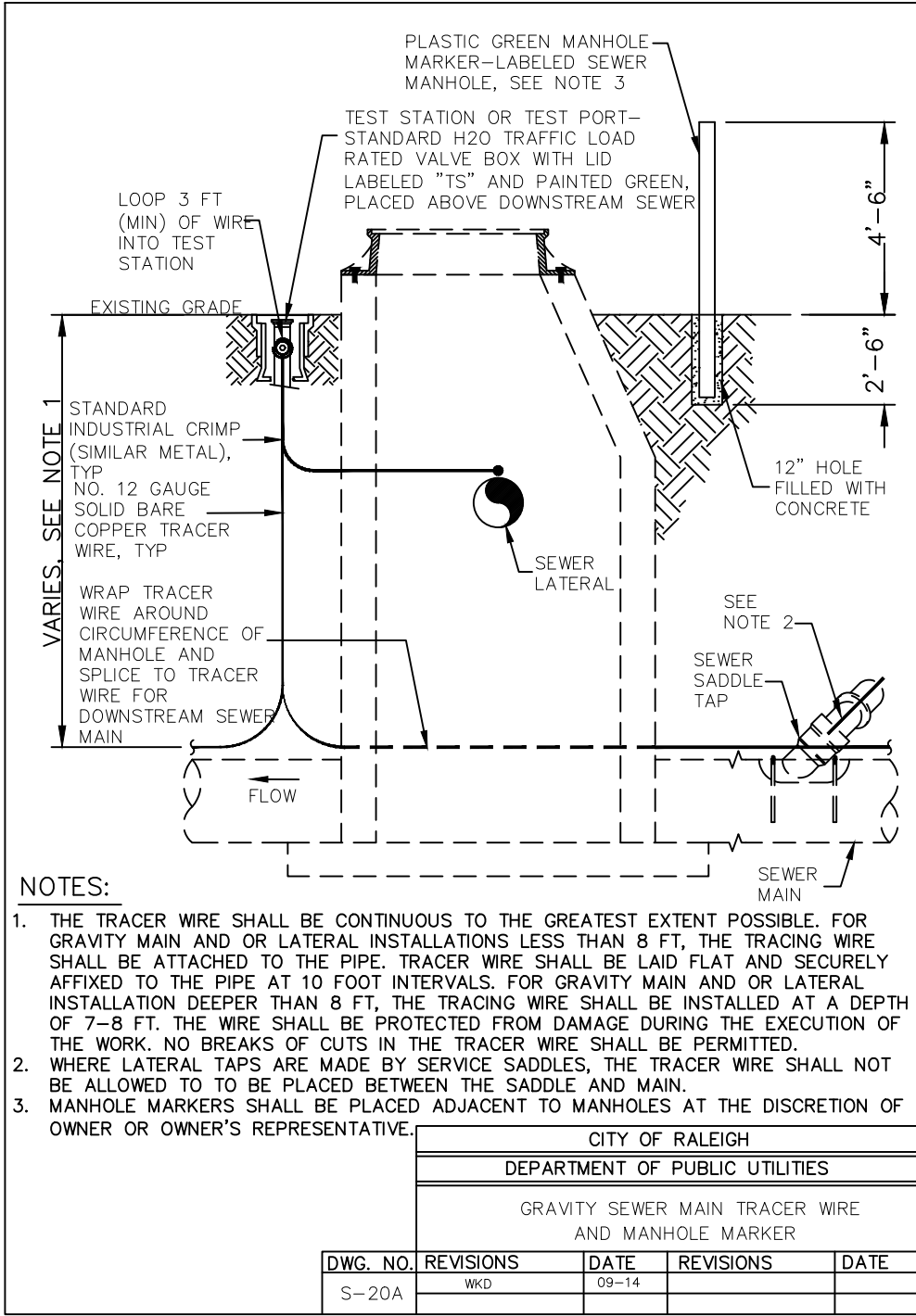
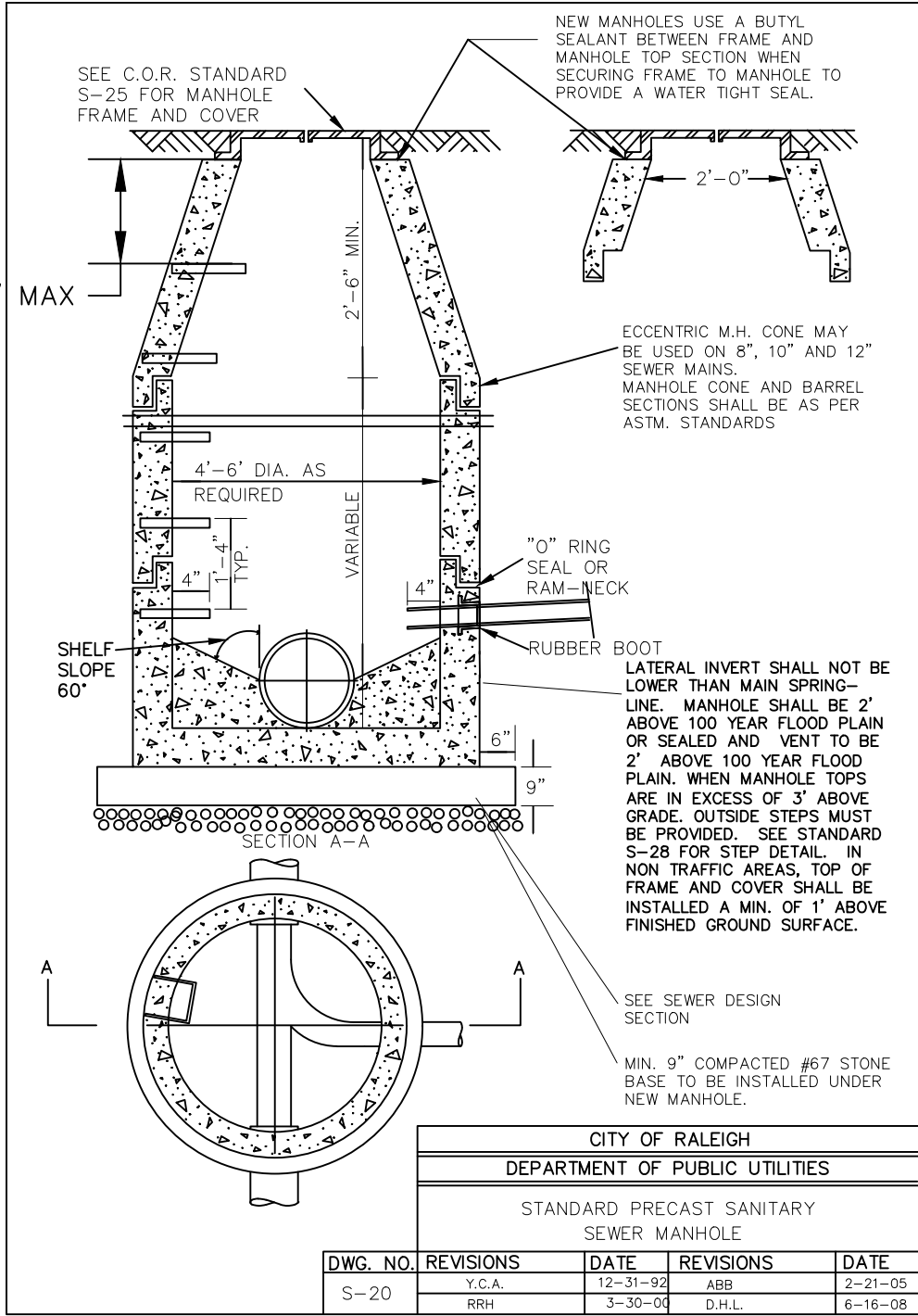
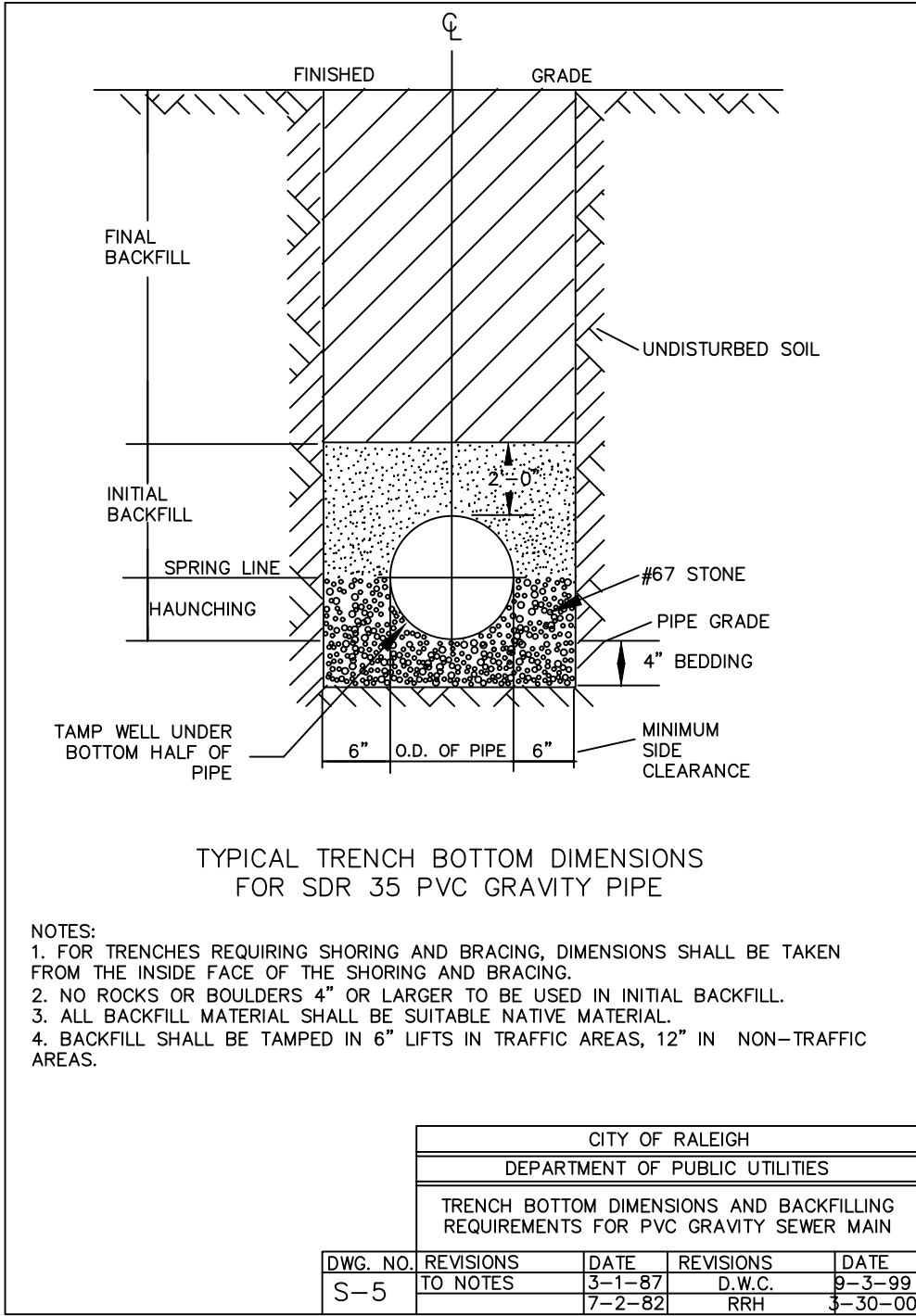
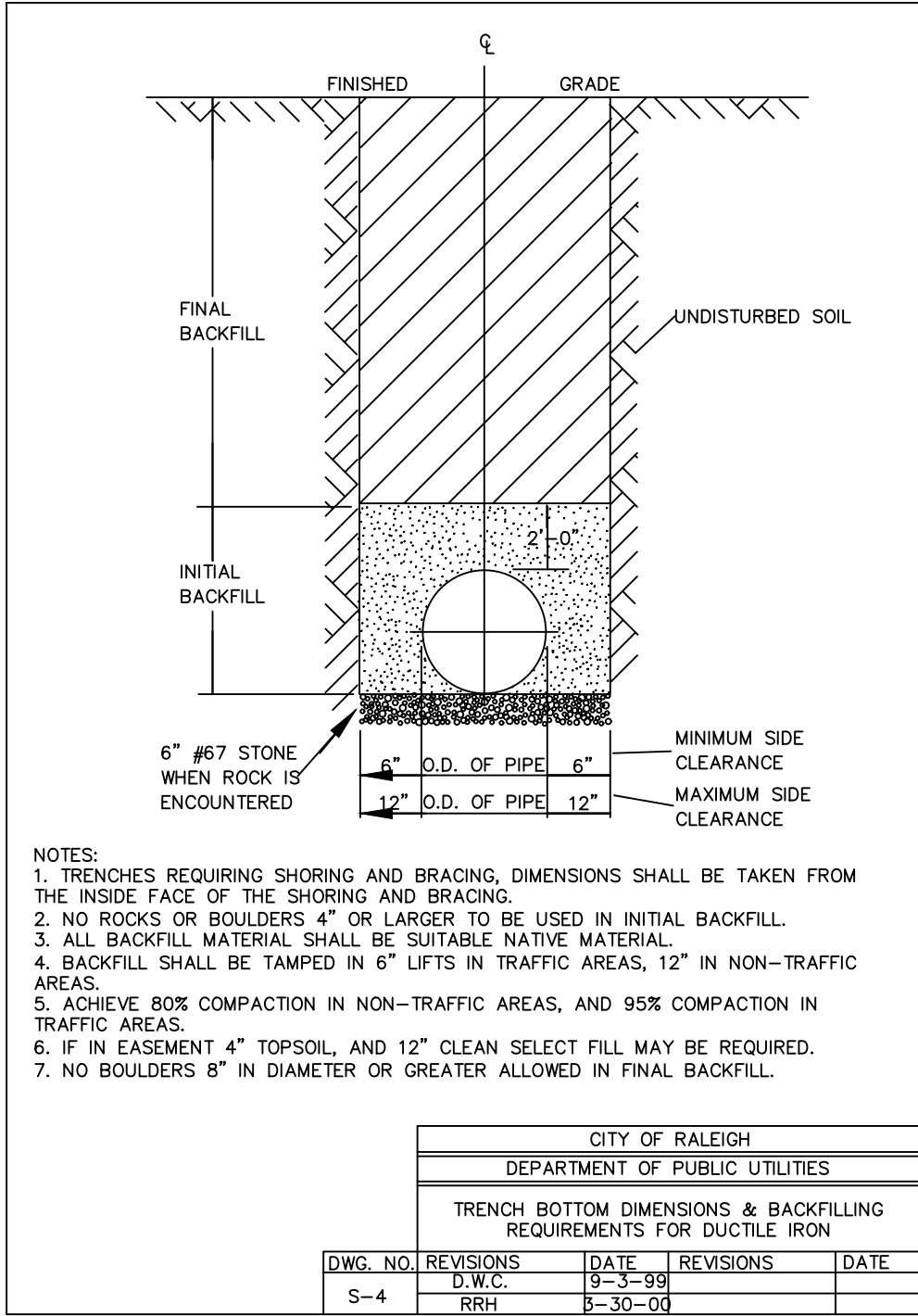
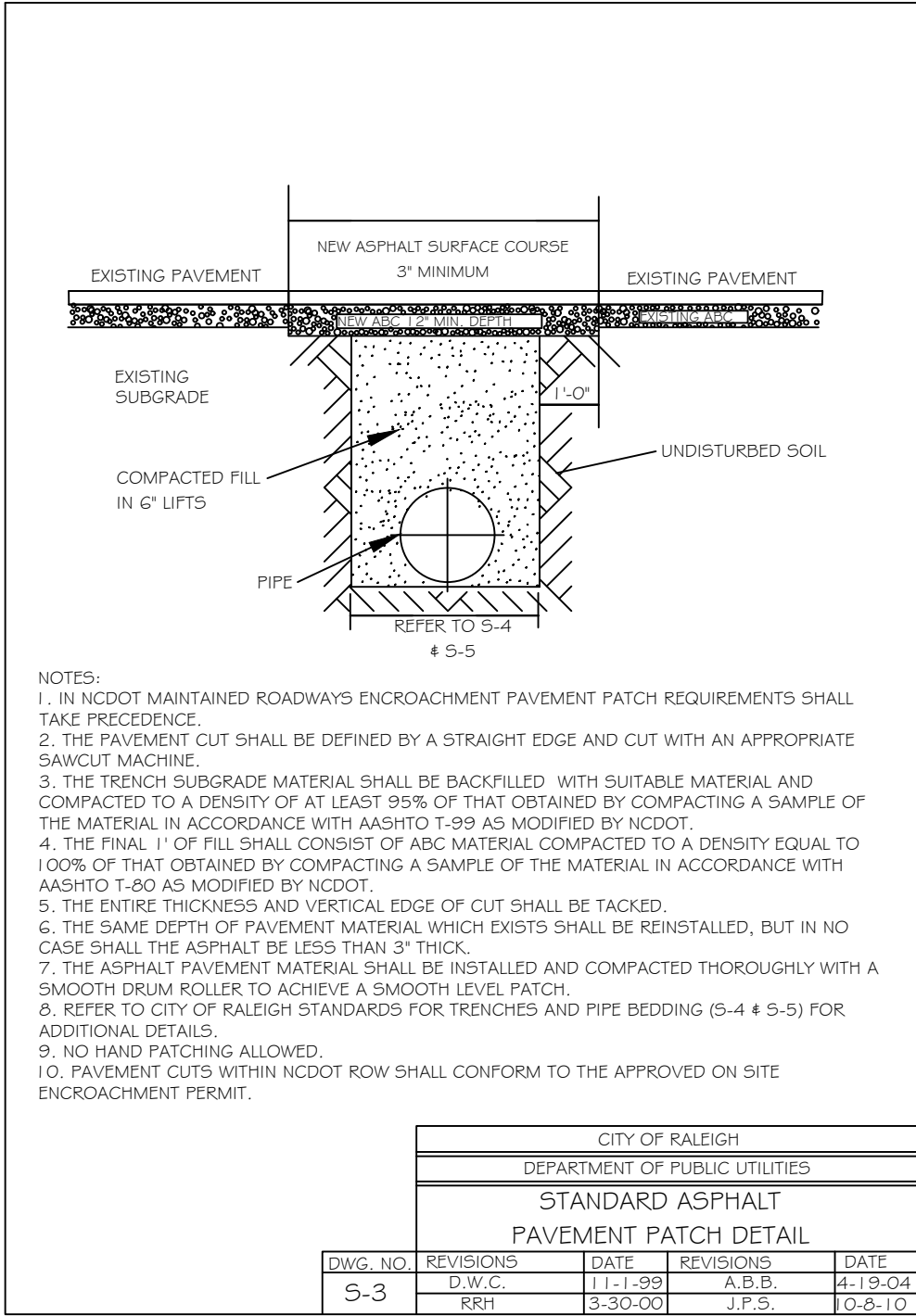


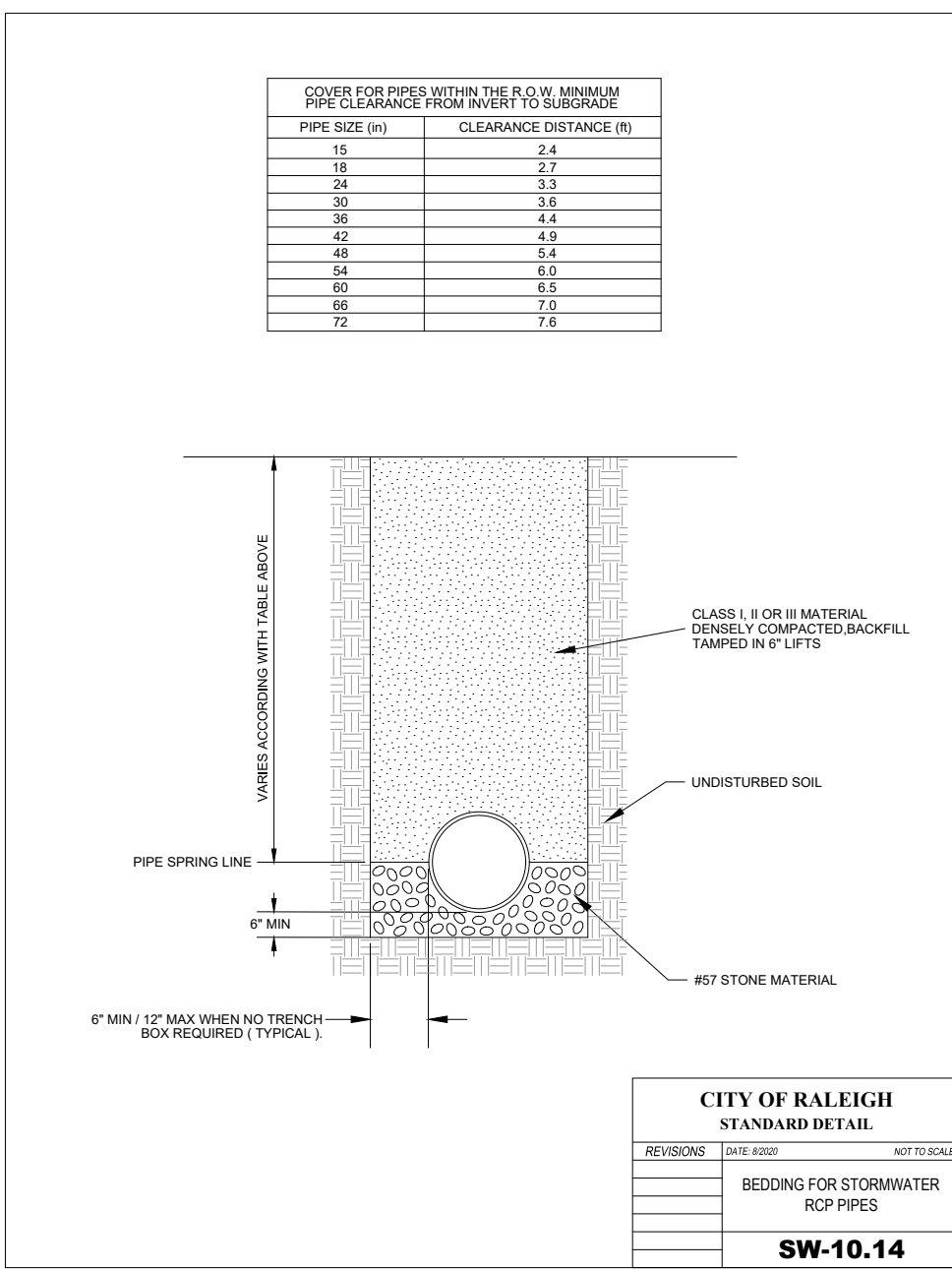
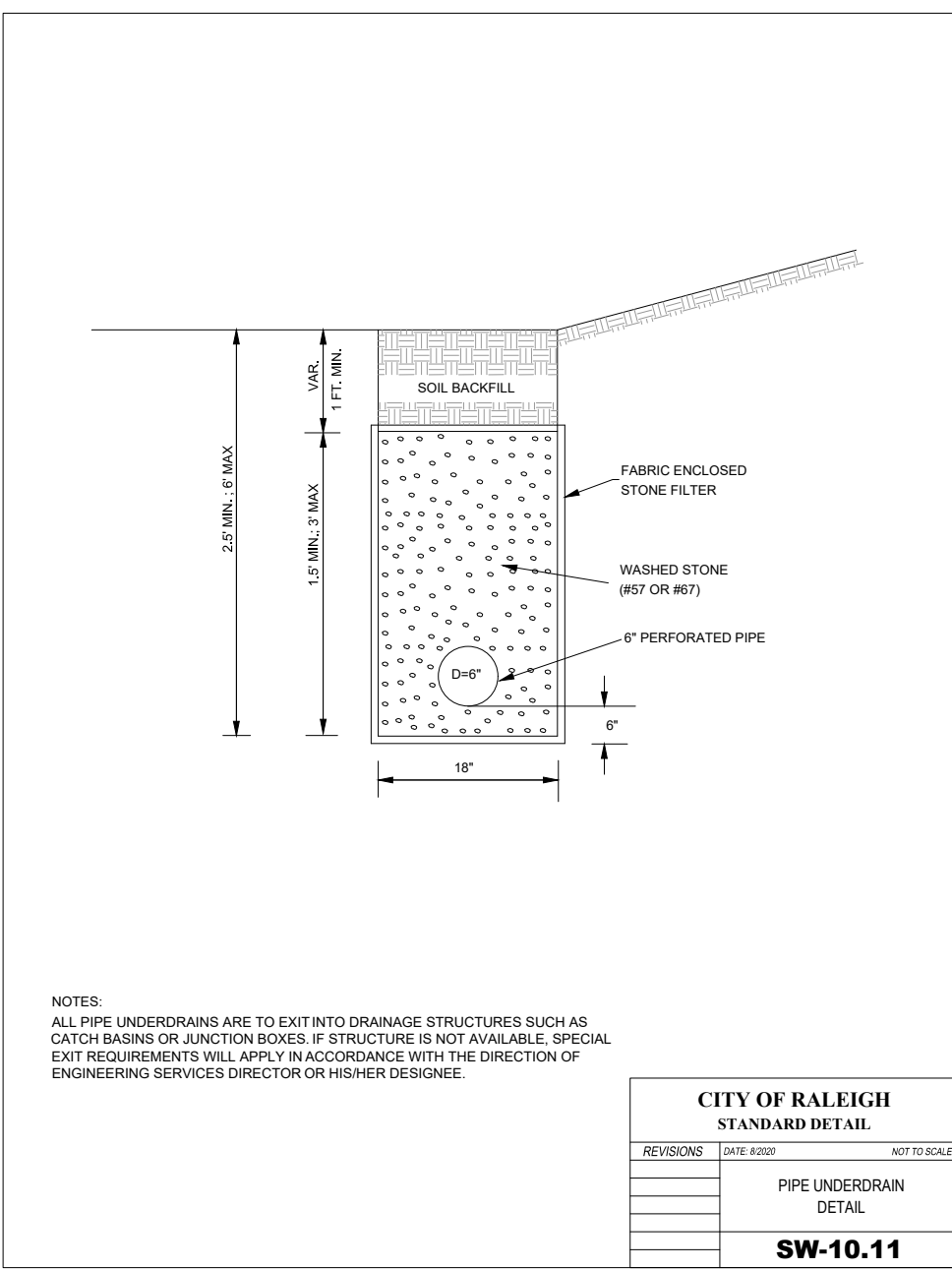
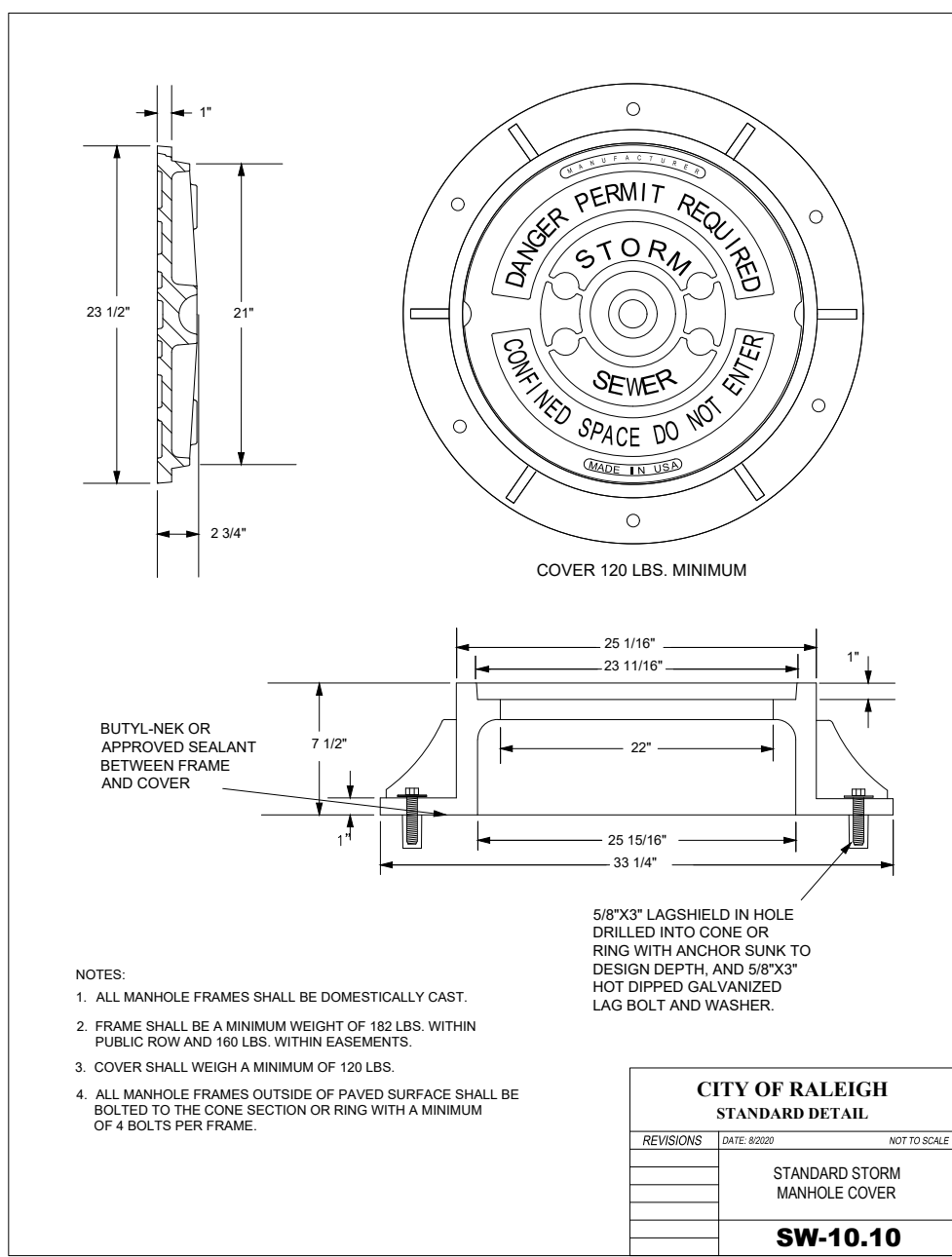
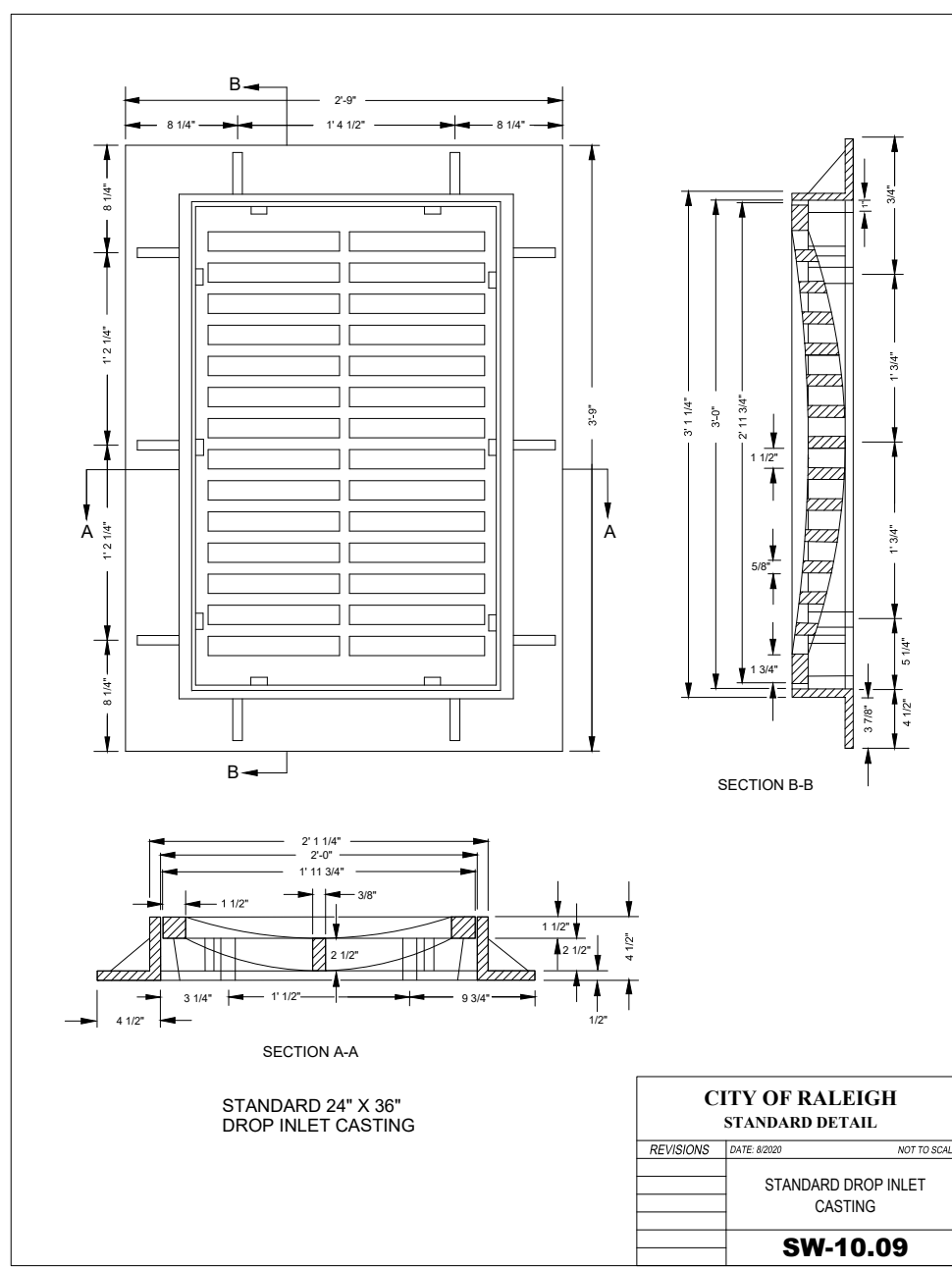
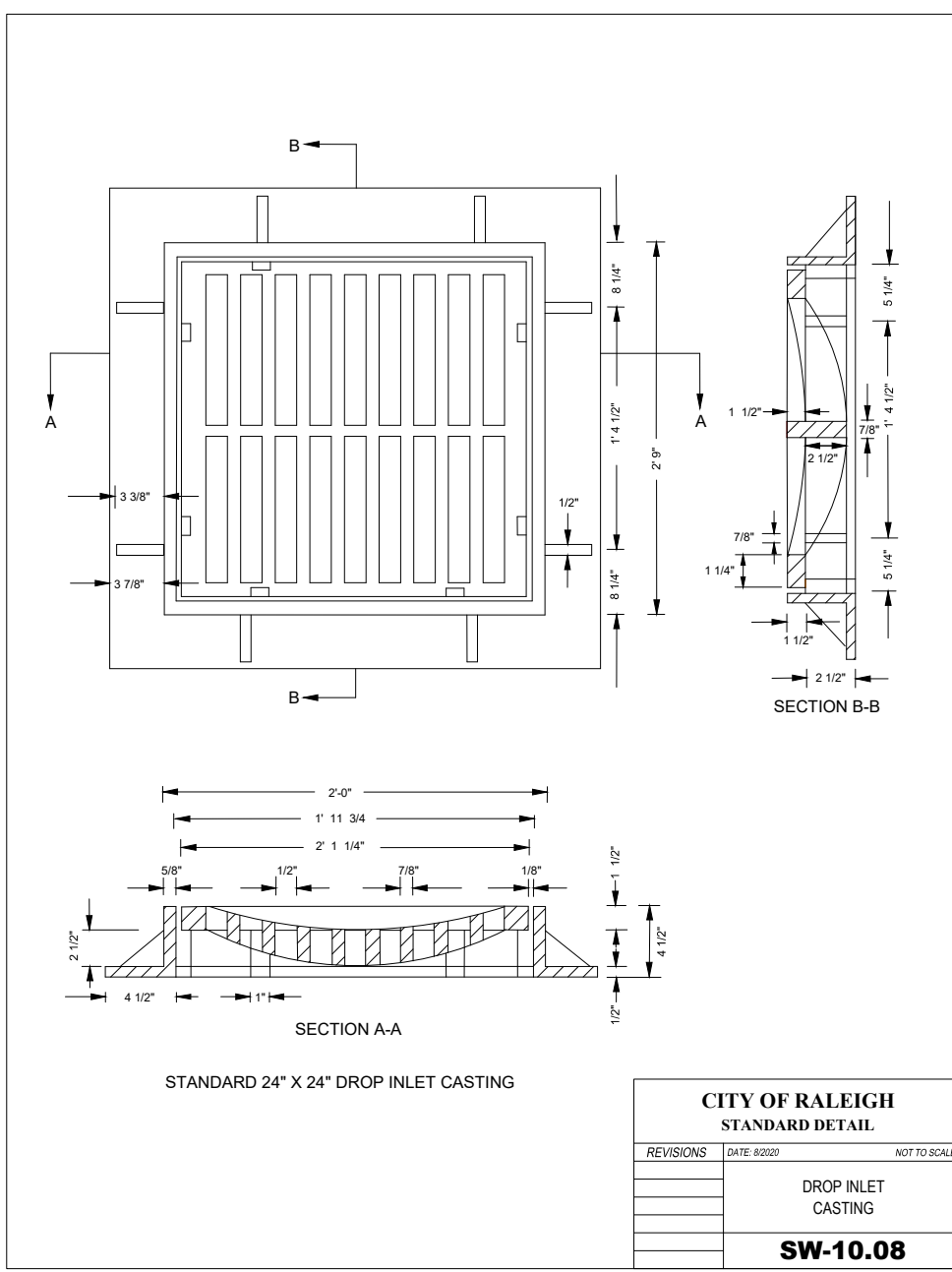
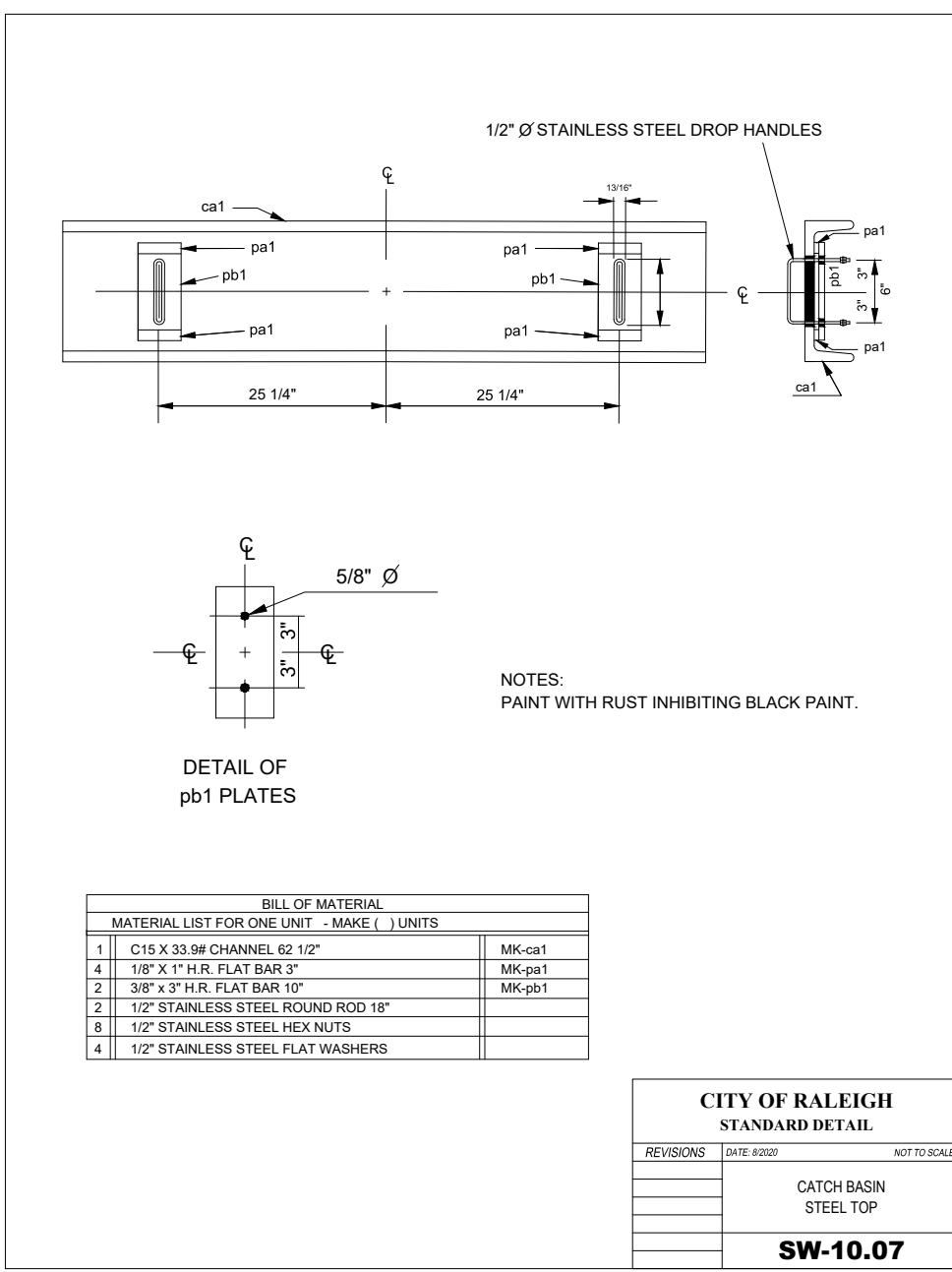
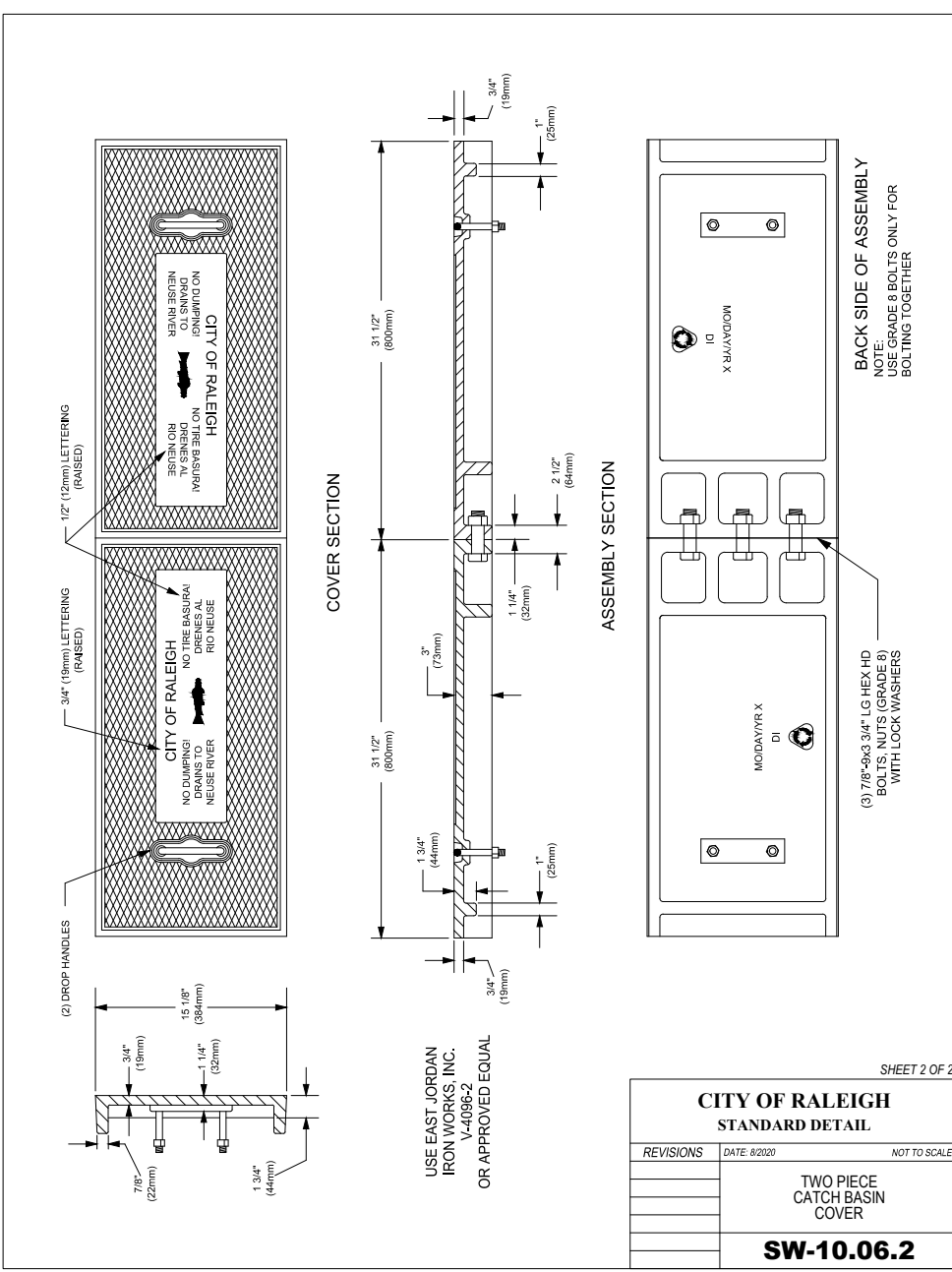
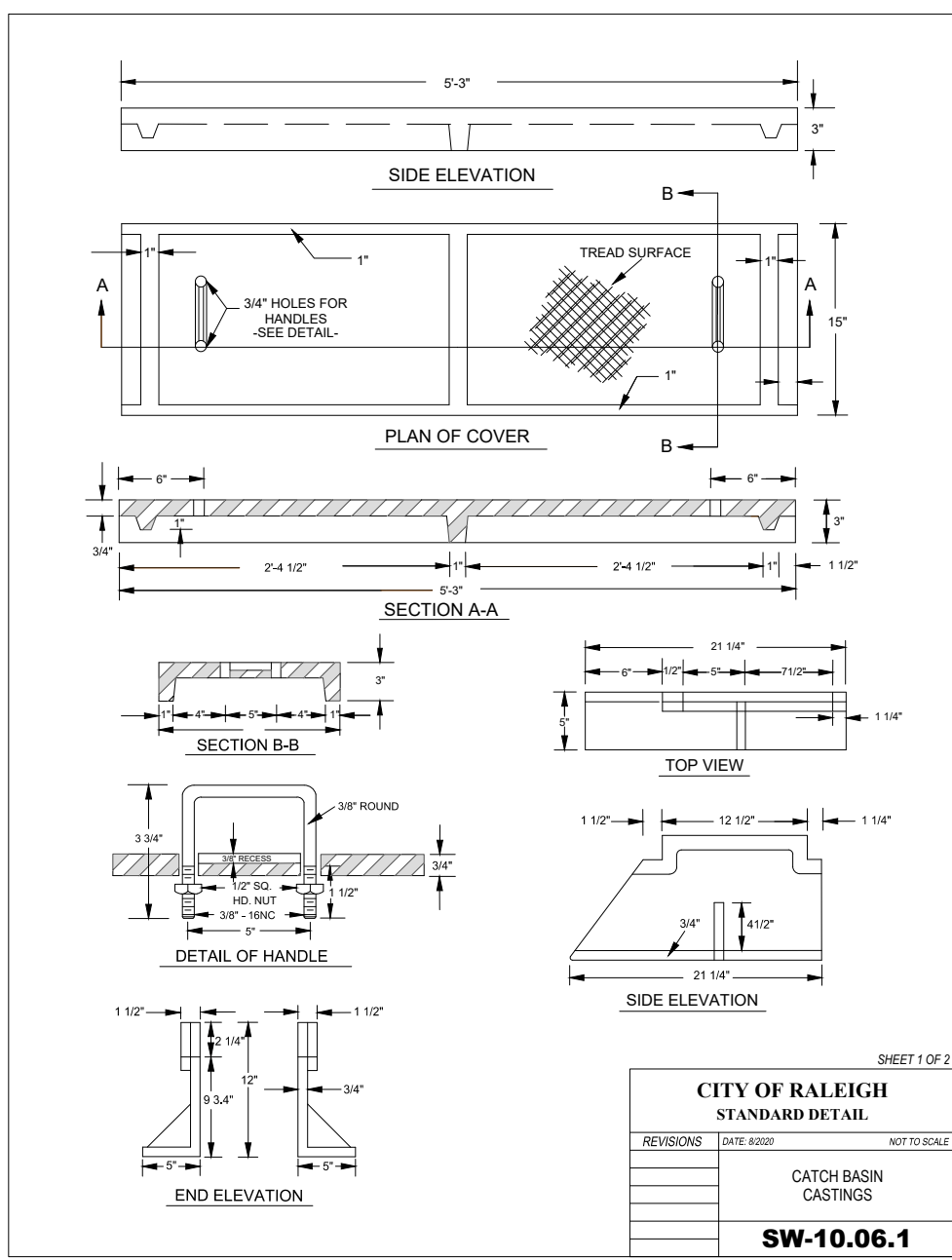
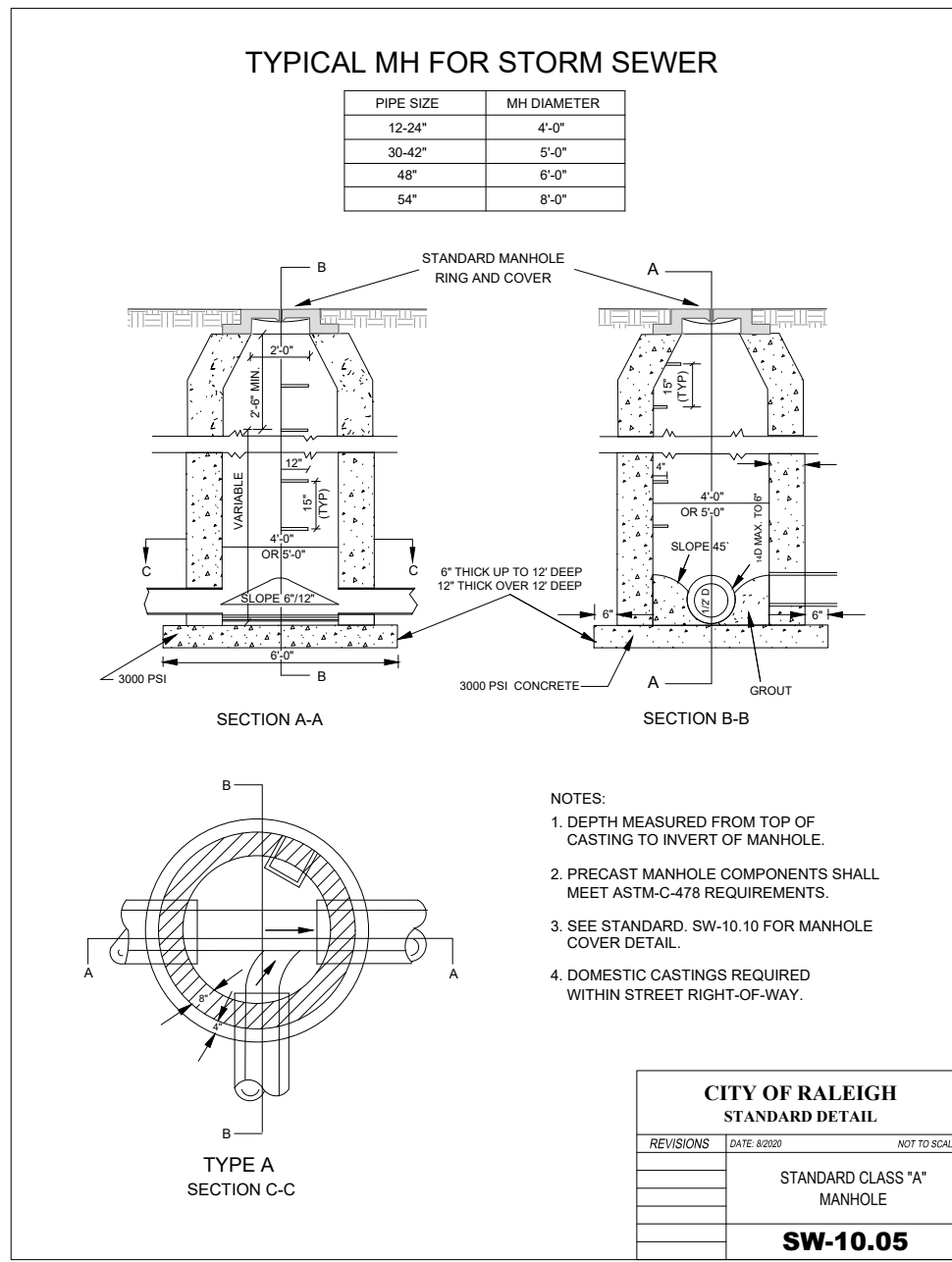
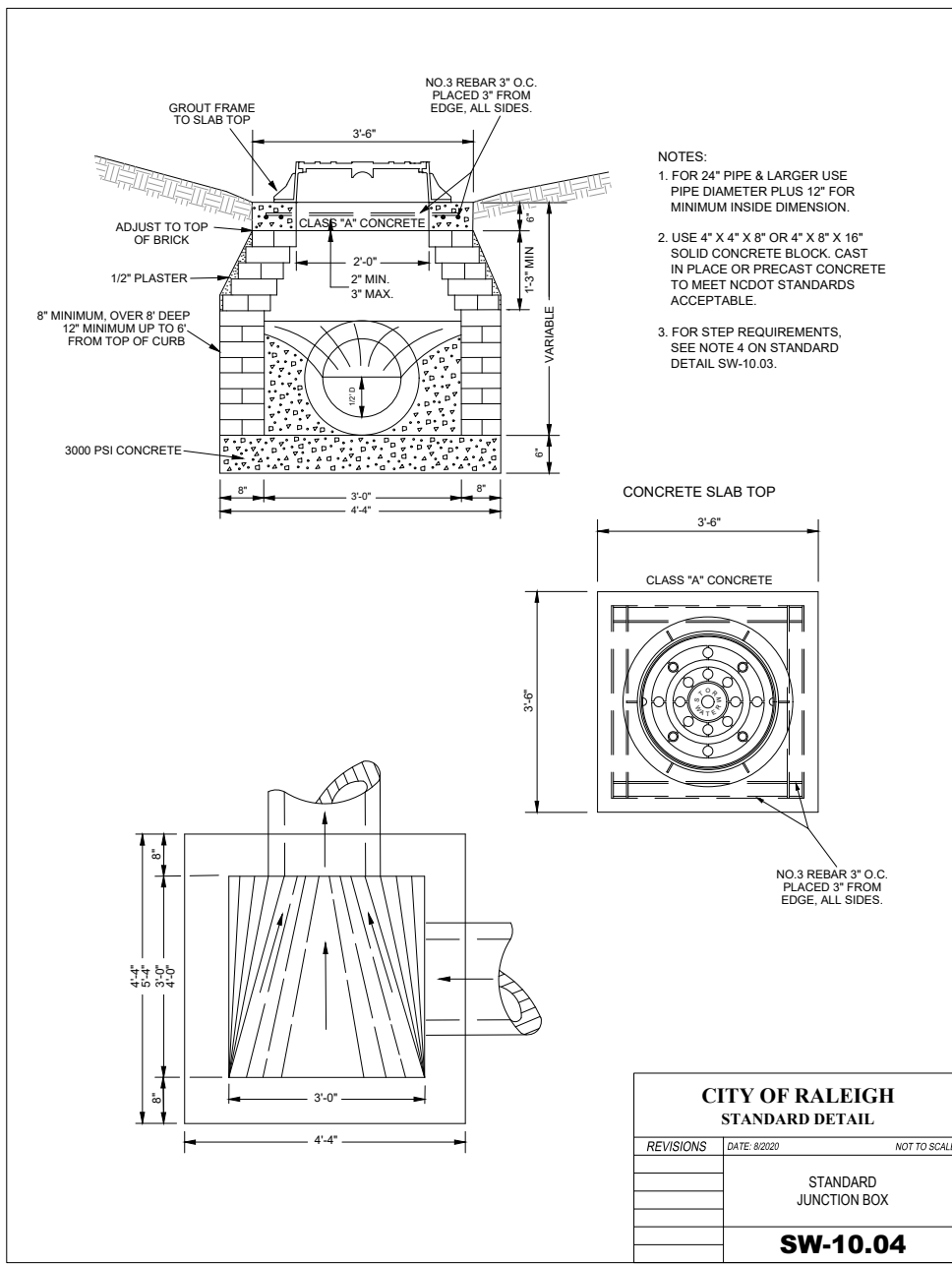
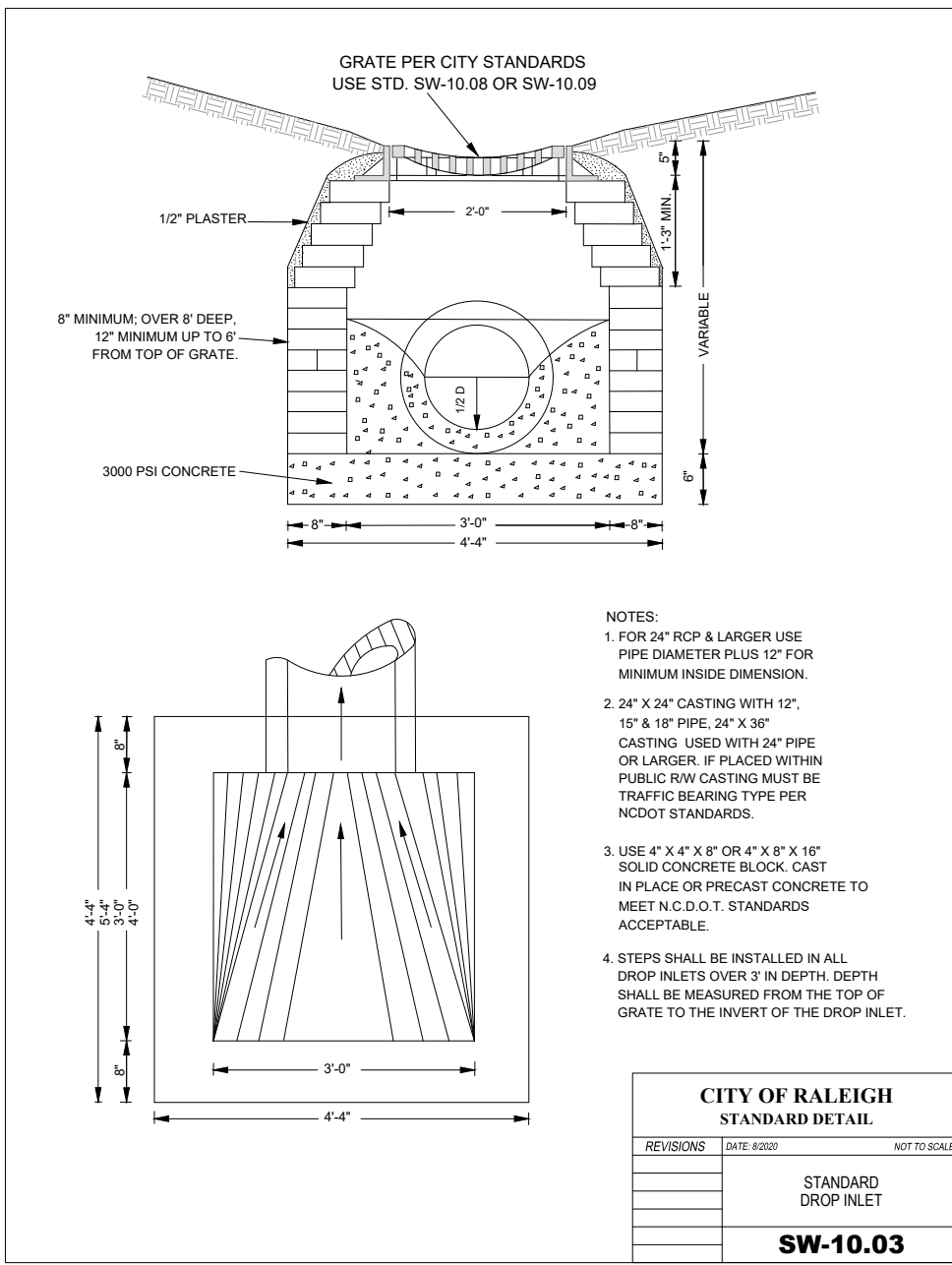
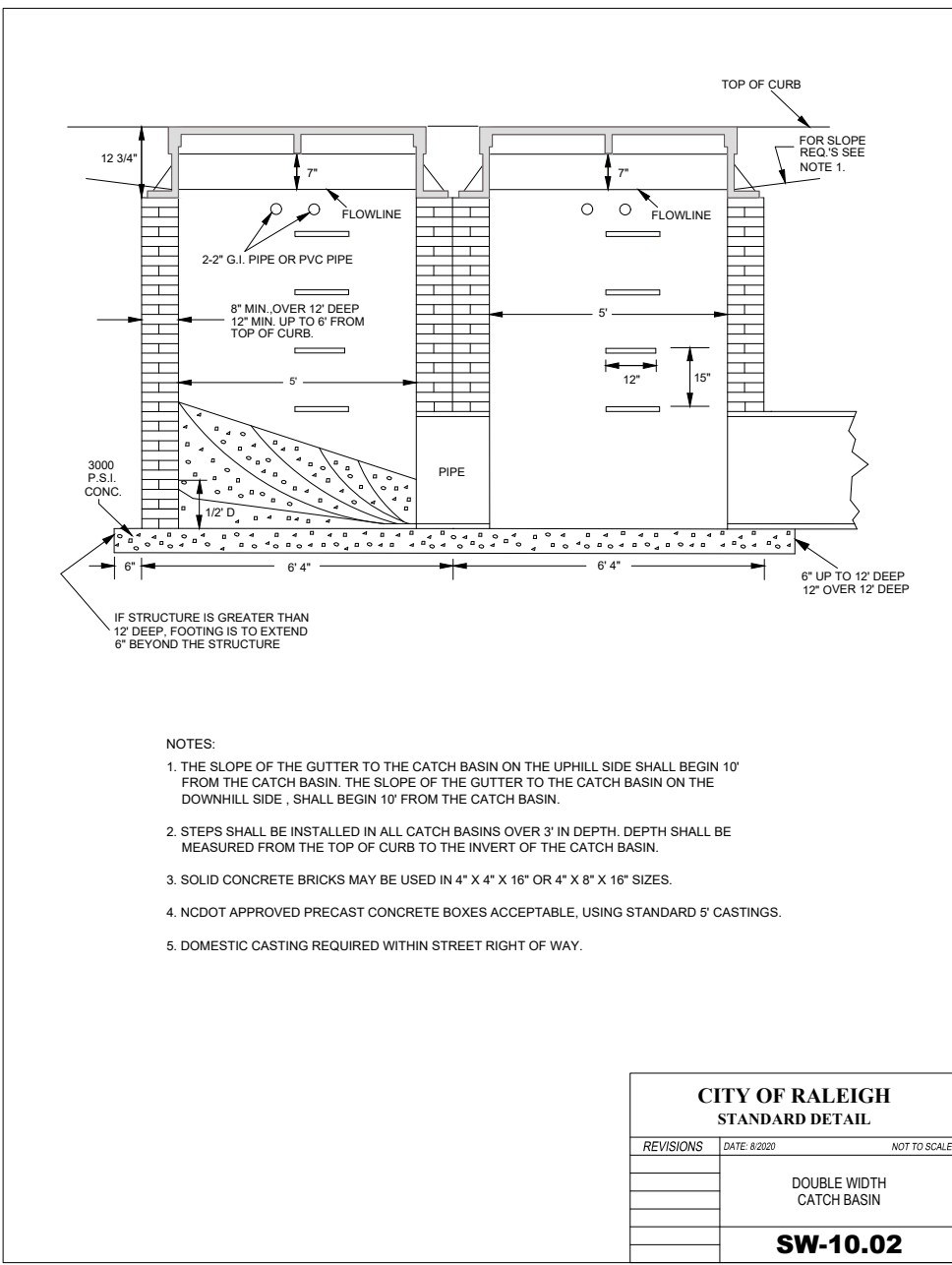
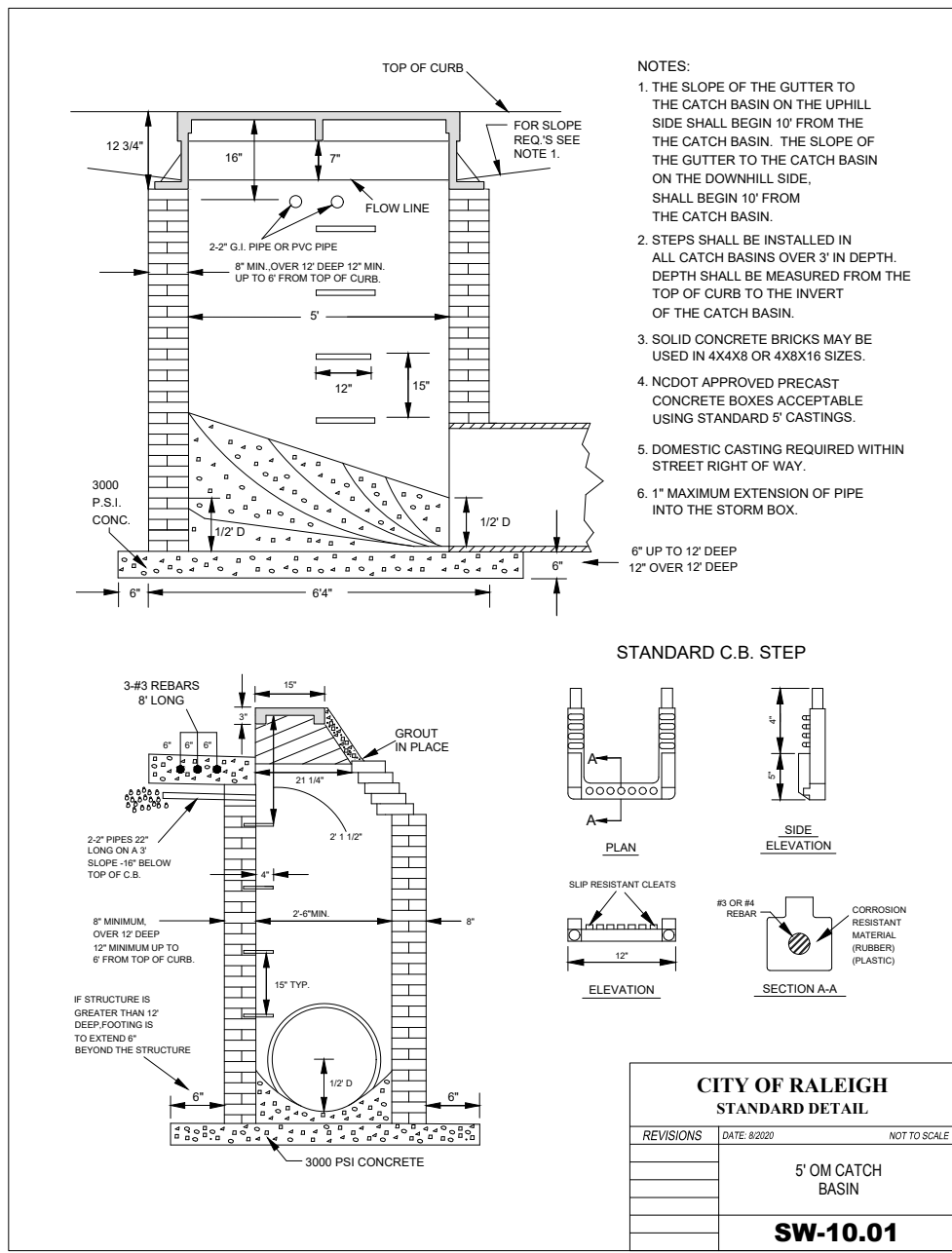
\\browngay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - DWG\PlanSheets\On-Site\C2-2 - EROS-DETL.dwg Layout: 08-3 EROSION CONTROL DETAILS (2 OF 2) Plotted: 6/1/2023 3:36:17 PM



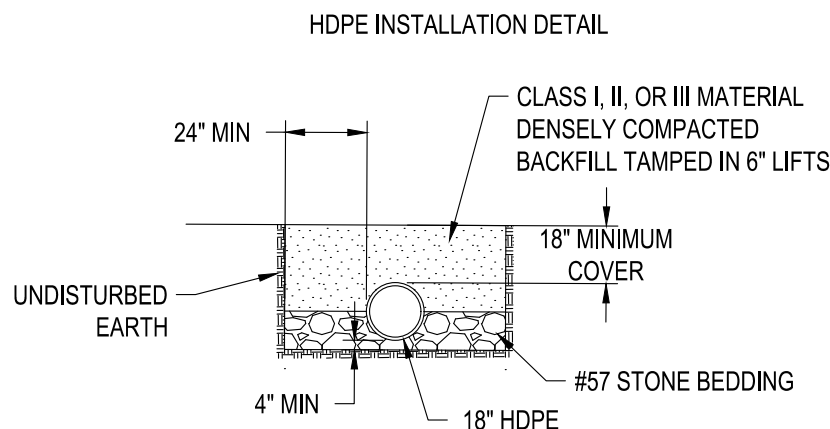
BCE		5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
LENNAR CORPORAION		1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE		82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
EROSION CONTROL DETAILS (2 OF 2)		EROSION CONTROL DETAILS (2 OF 2)	
PRELIMINARY		PRELIMINARY	
NOT FOR CONSTRUCTION		NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03		FILE NUMBER: 8430-03	
DATE: 06/01/2023		DATE: 06/01/2023	
C8-3		C8-3	
DESIGNED BY: DF/CD		DESIGNED BY: DF/CD	
DRAWN BY: DF/JWM		DRAWN BY: DF/JWM	
REVIEWED BY: DF		REVIEWED BY: DF	
PER TOWN OF ROLESVILLE COMMENT		PER TOWN OF ROLESVILLE COMMENT	
06/01/2023		06/01/2023	
REV		REV	
04/03/2023		04/03/2023	
INITIAL SUBMITTAL		INITIAL SUBMITTAL	







Missing or invalid reference
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Sheet: 1



- HDPE INSTALLATION NOTES:
1. ALL HDPE CONSTRUCTION IS TO BE DONE IN COMPLIANCE WITH CITY OF RALEIGH STANDARDS FOR HDPE PIPE.
 2. CONTRACTOR SHALL NOTIFY CITY OF RALEIGH 24 HOURS PRIOR TO HDPE PIPE INSTALLATION.
 3. TRANSITIONS OF HDPE TO RCP REQUIRE DISSIMILAR MATERIALS ADAPTER CONSISTING OF A MASTIC COATING AND STAINLESS STEEL STRAPS, AND A FULL CONCRETE ENCASUREMENT AROUND CONNECTION.
 4. ALL PIPE END TREATMENTS ARE TO BE REINFORCED CONCRETE MATERIAL.



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DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

06/01/2023

04/03/2023

REV

PER TOWN OF ROLESVILLE COMMENT

INITIAL SUBMITTAL

LENNA

CORPORAION

1100 PERMETER PARK DRIVE, SUITE 112

MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET

ROLESVILLE / NORTH CAROLINA / 27571

STORM-DETAIL

PRELIMINARY

ENGINEER

EDWARD M. FERN

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 06/01/2023

C8-5

BCE

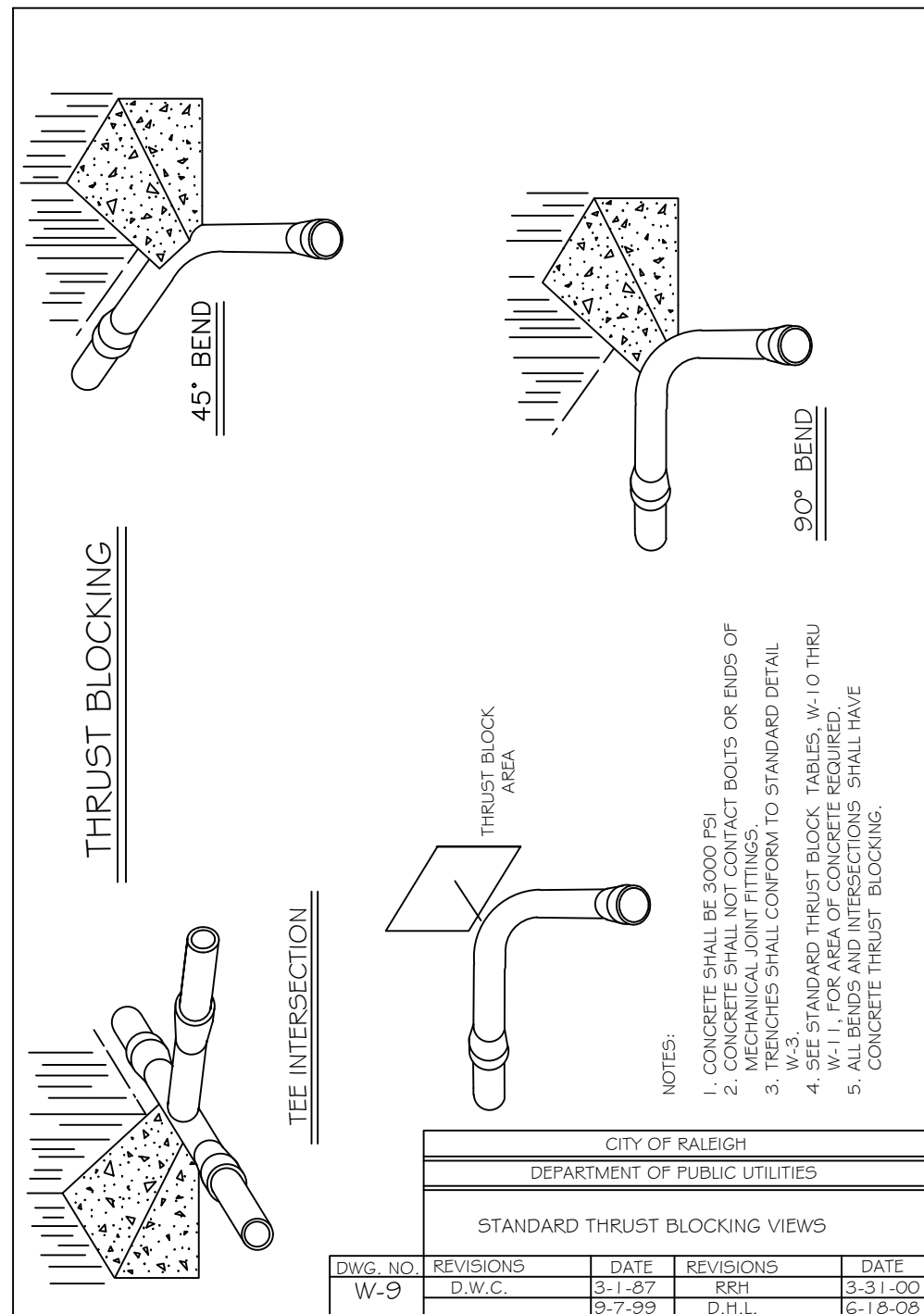
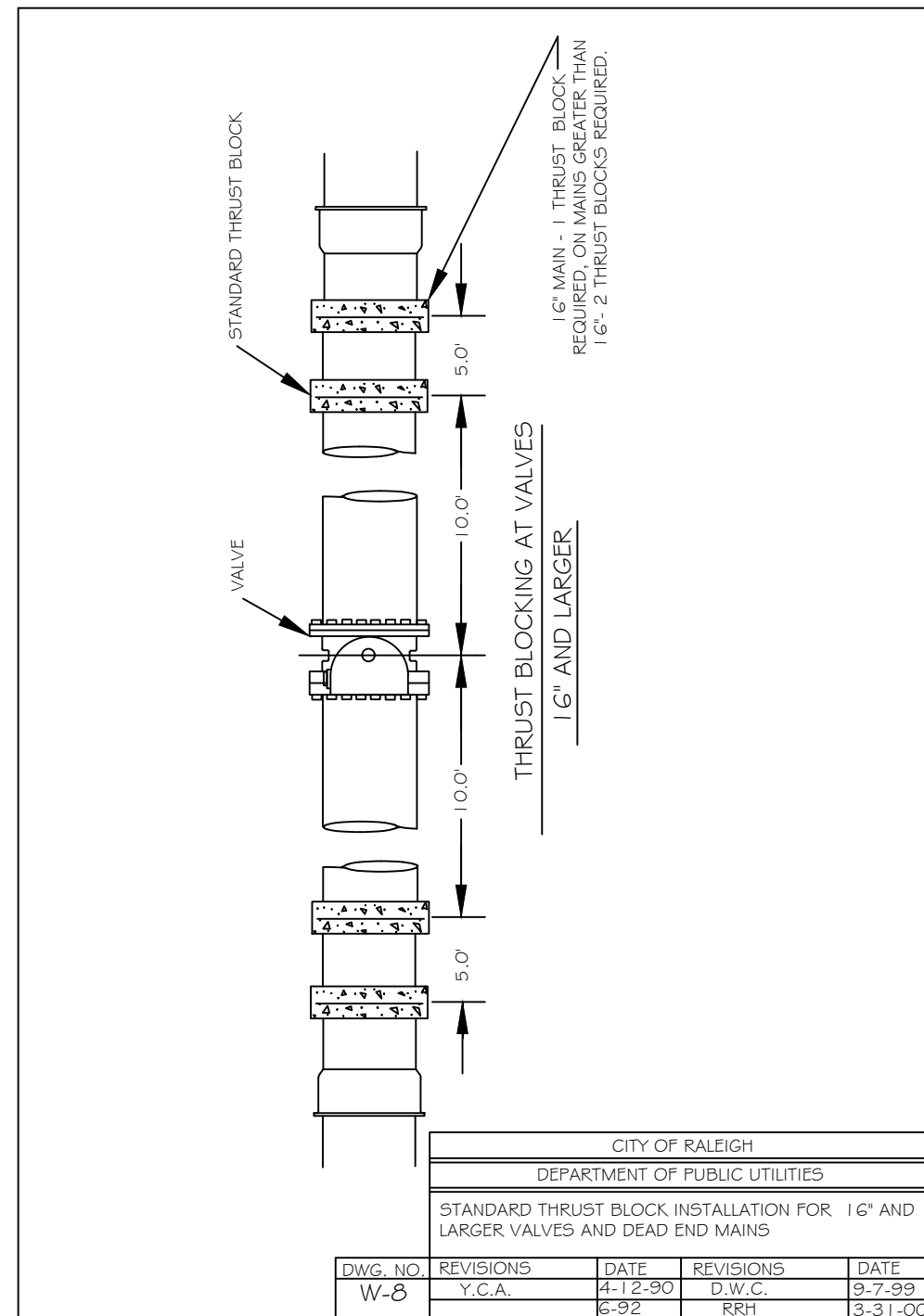
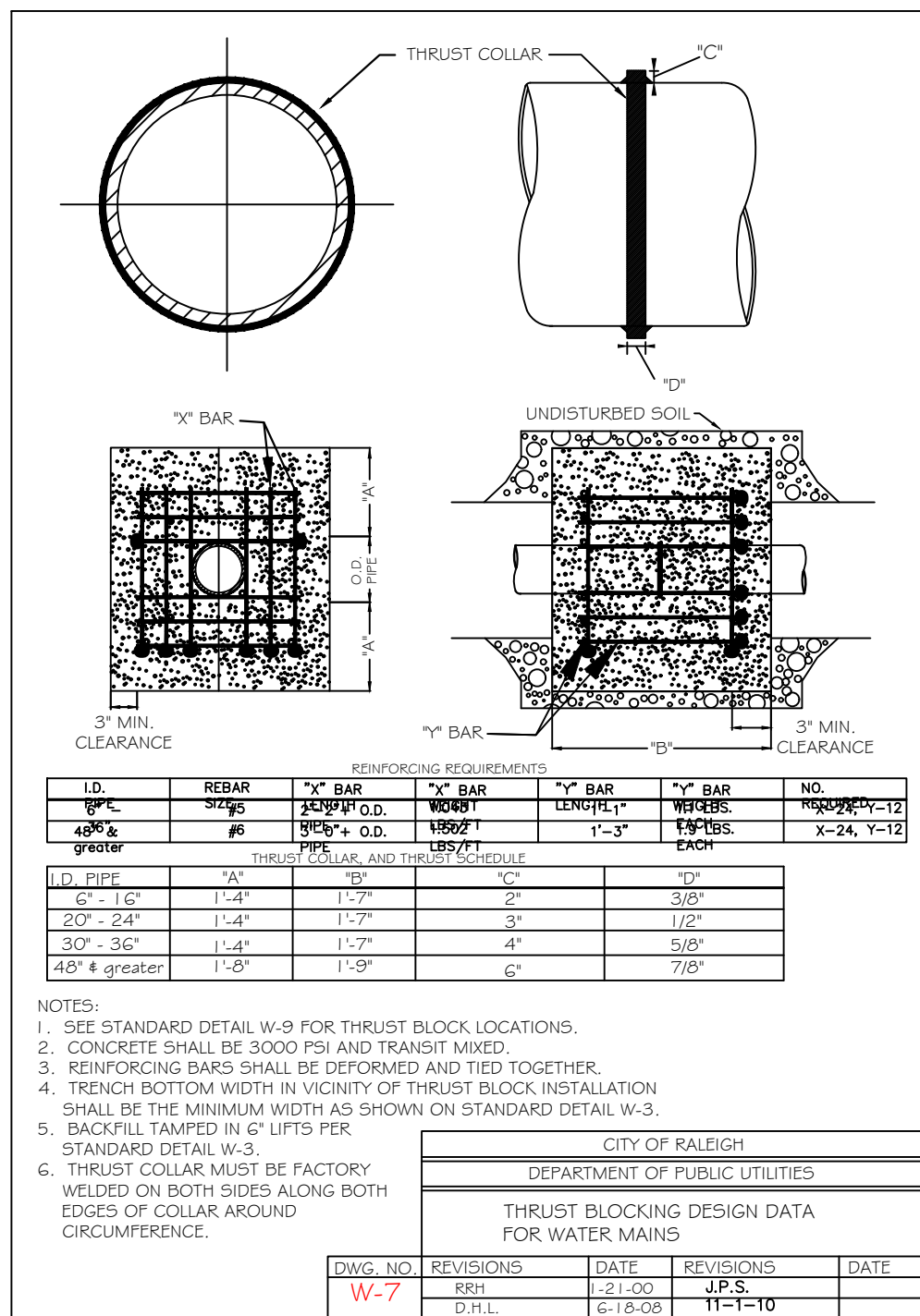
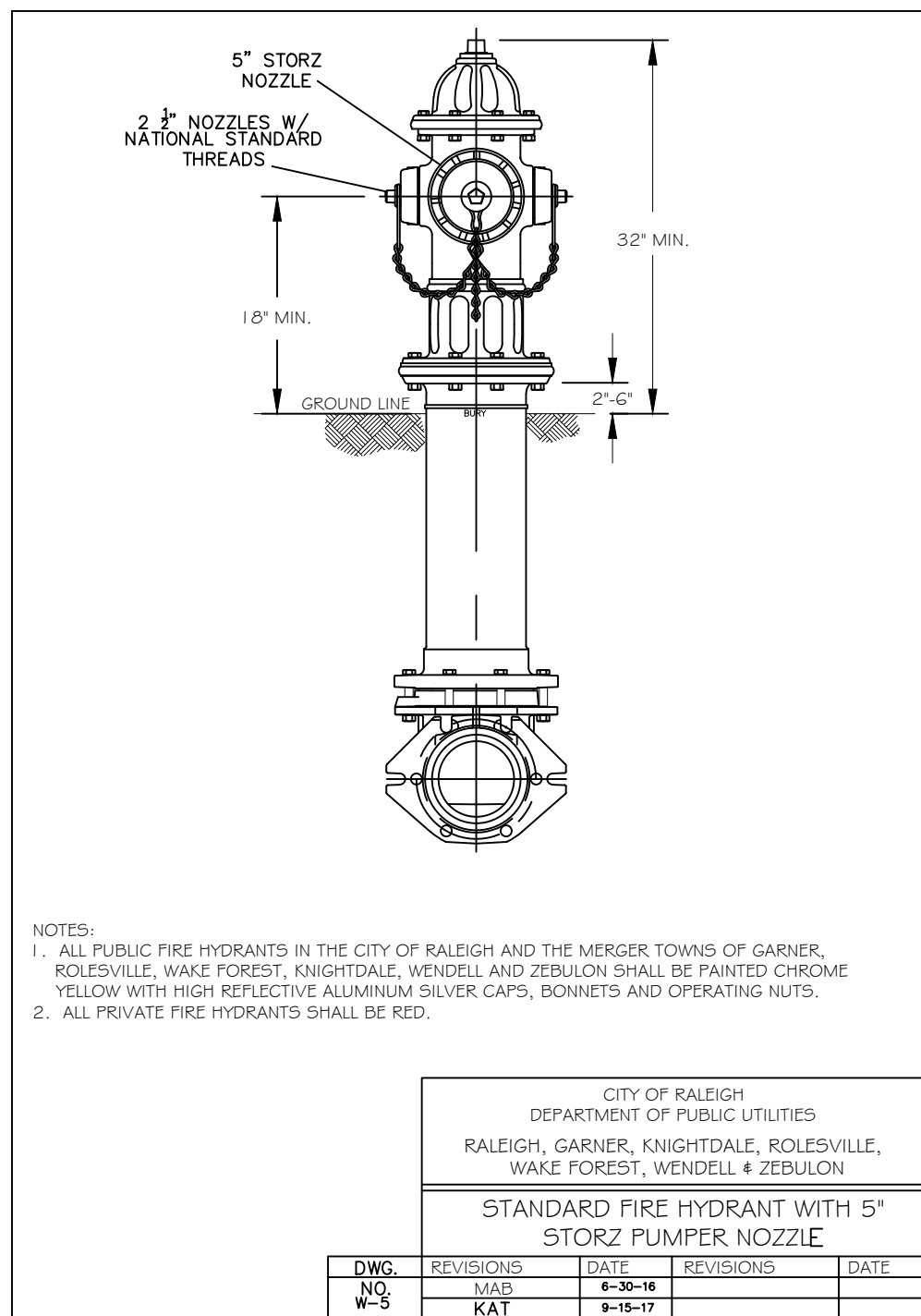
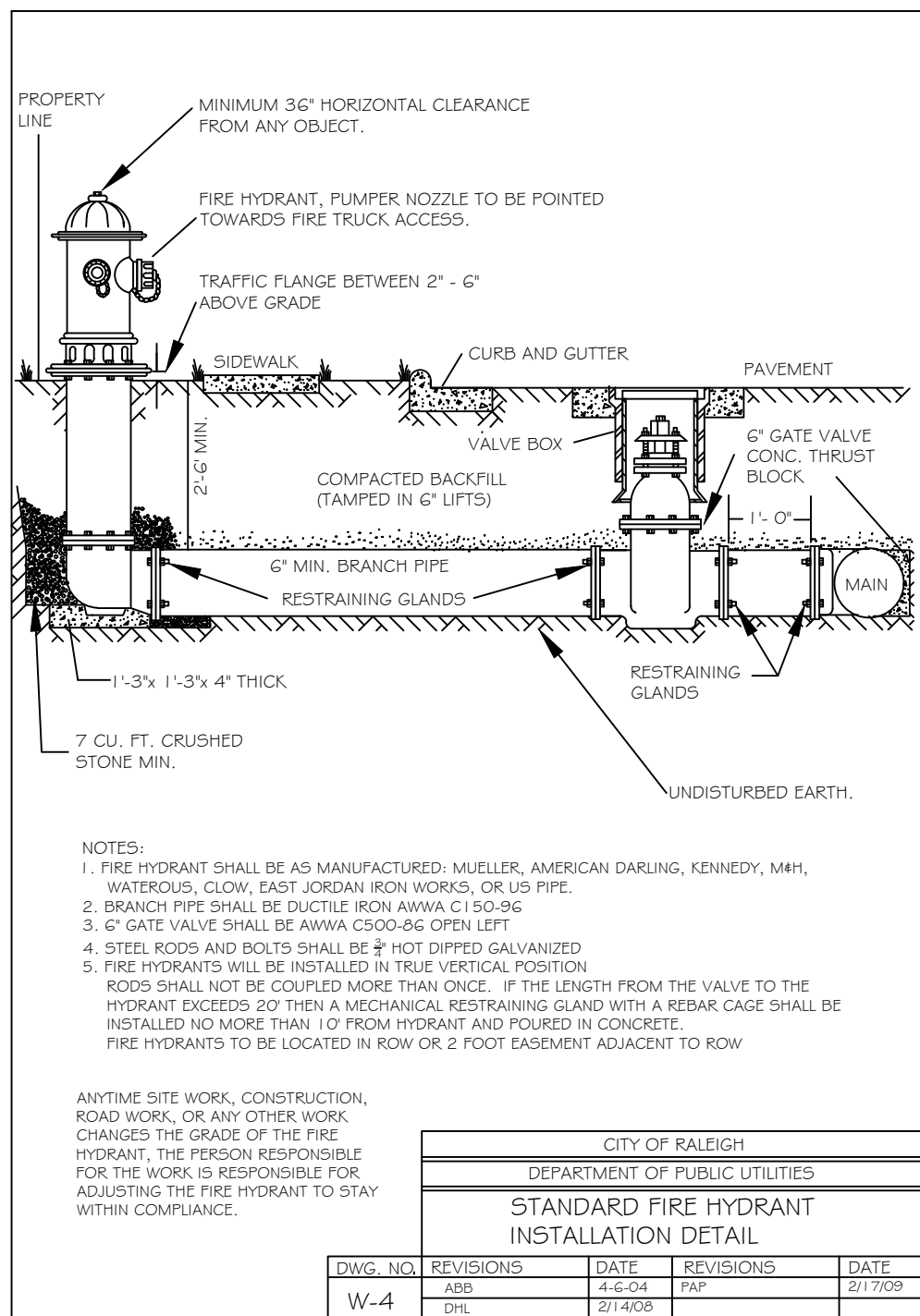
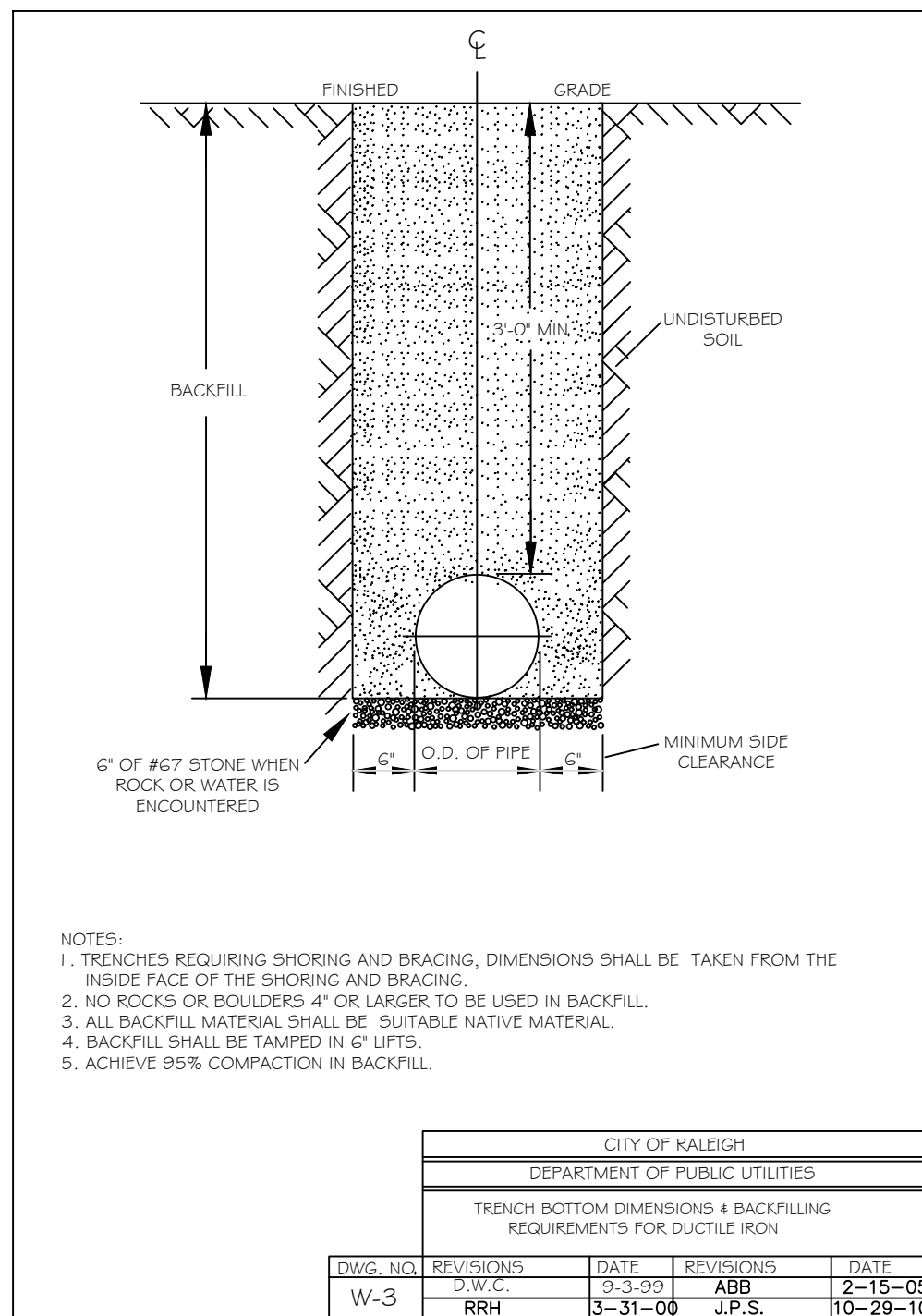
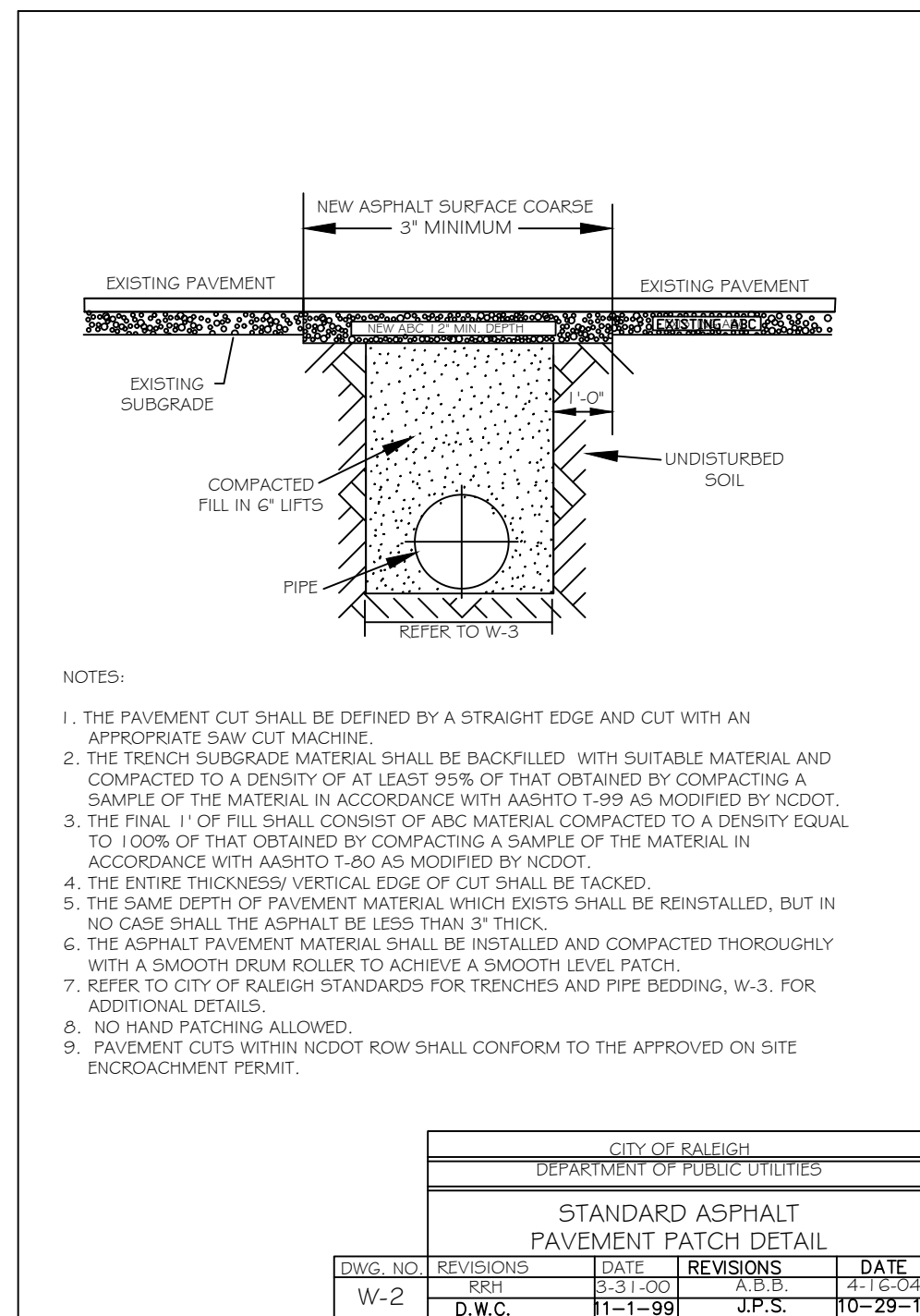
5440 WADE PARK BLVD, SUITE 102

RALEIGH NC 27607

WWW.BCEINC.COM

NC LICENSE #C-4397

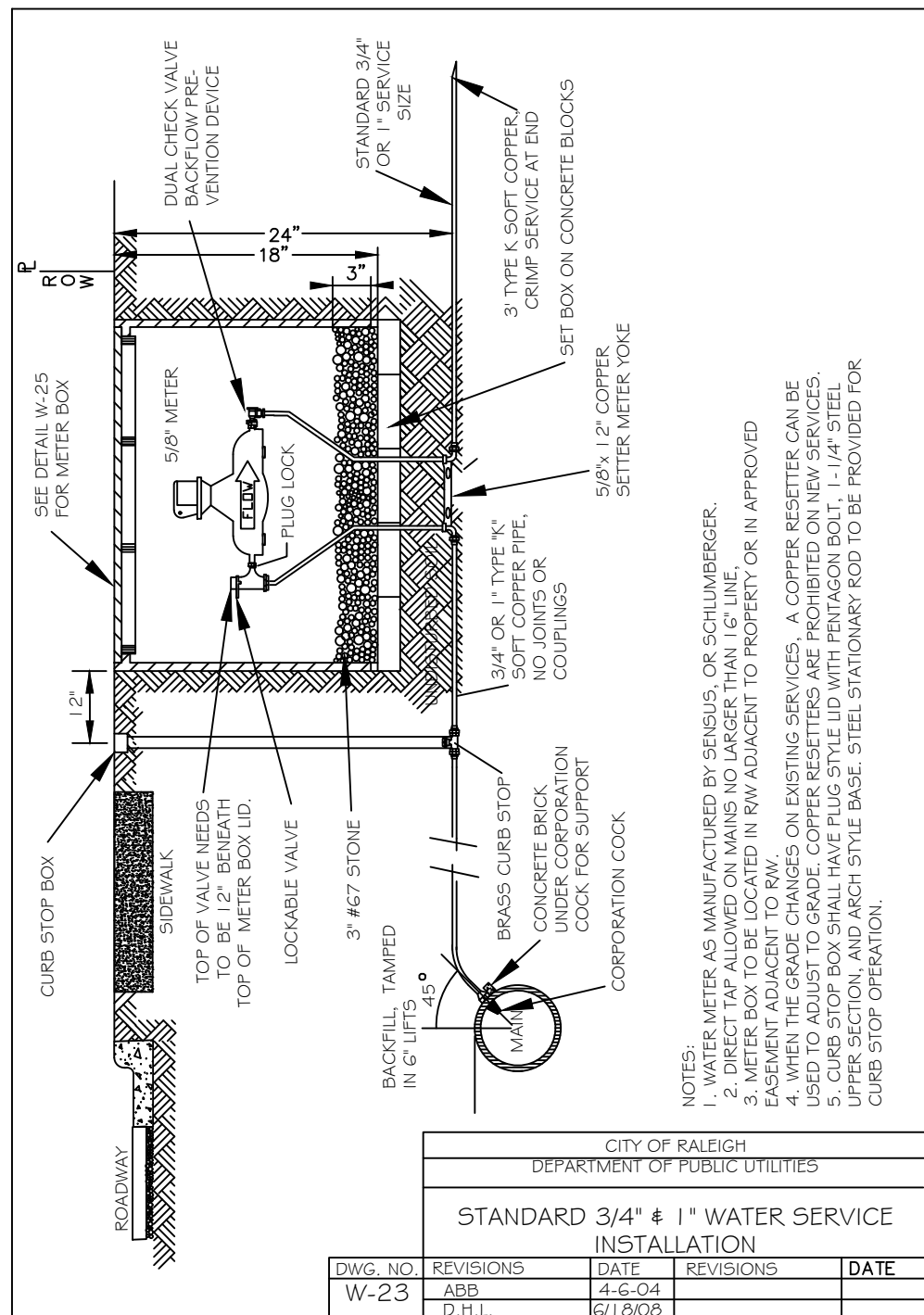
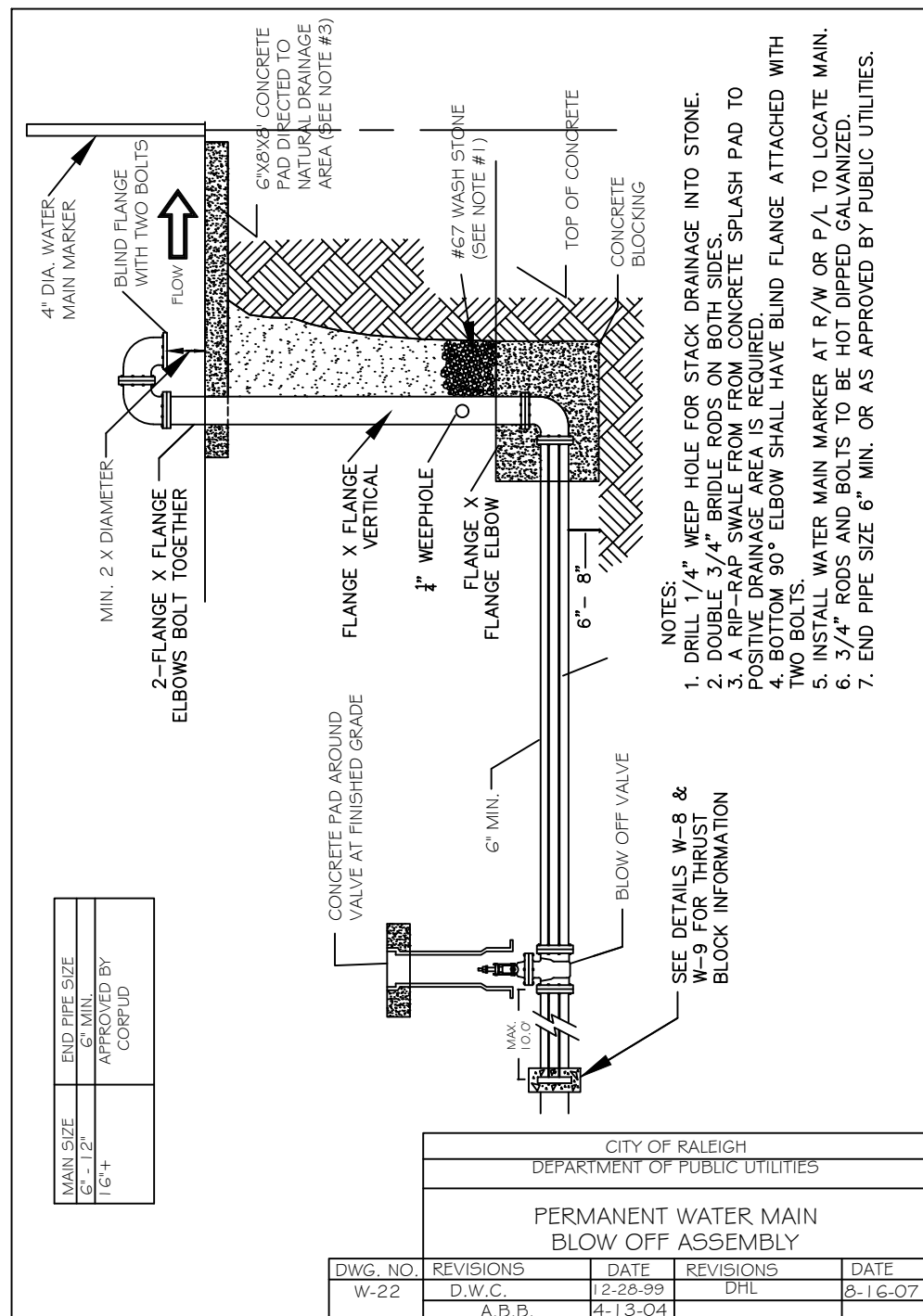
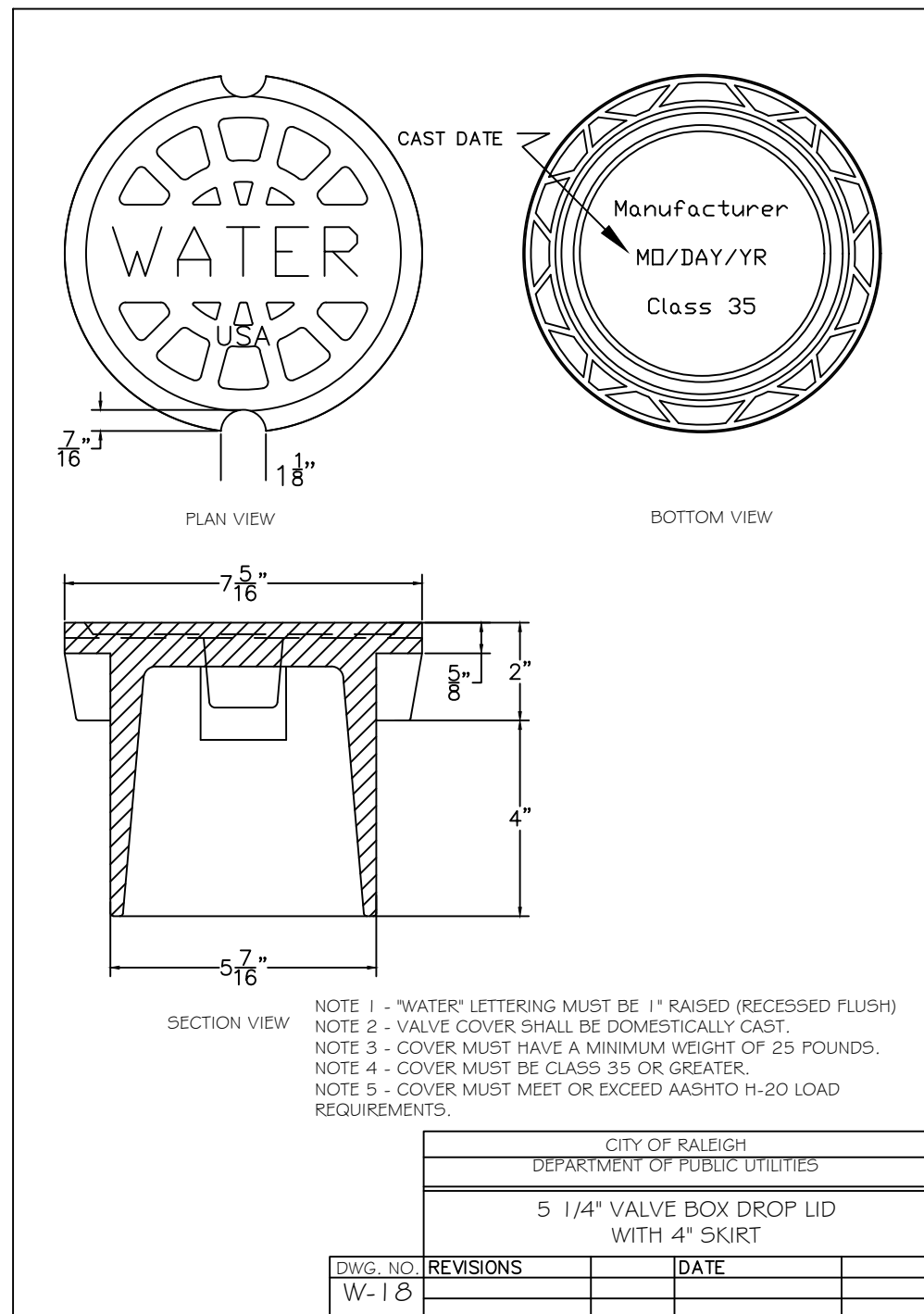
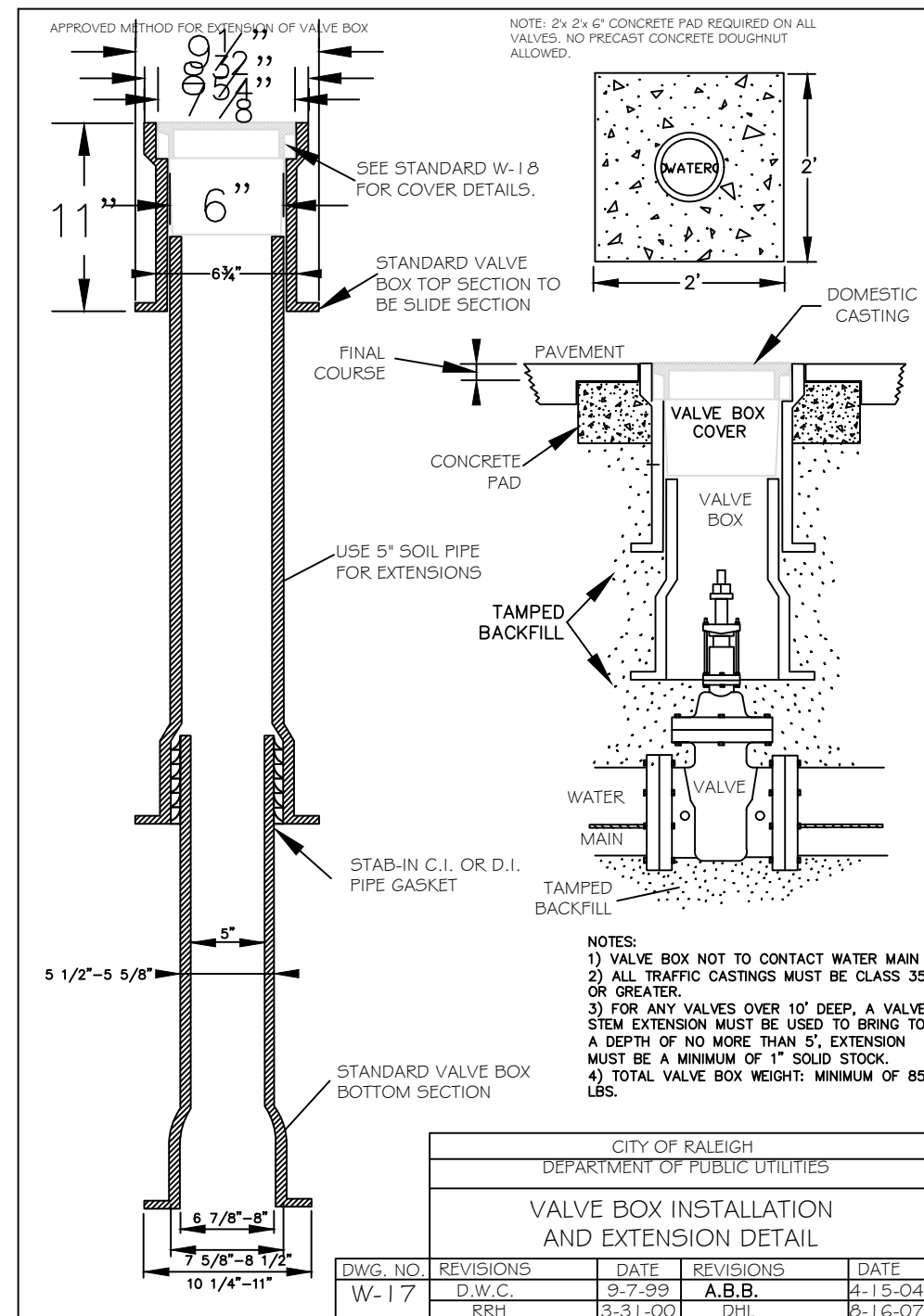
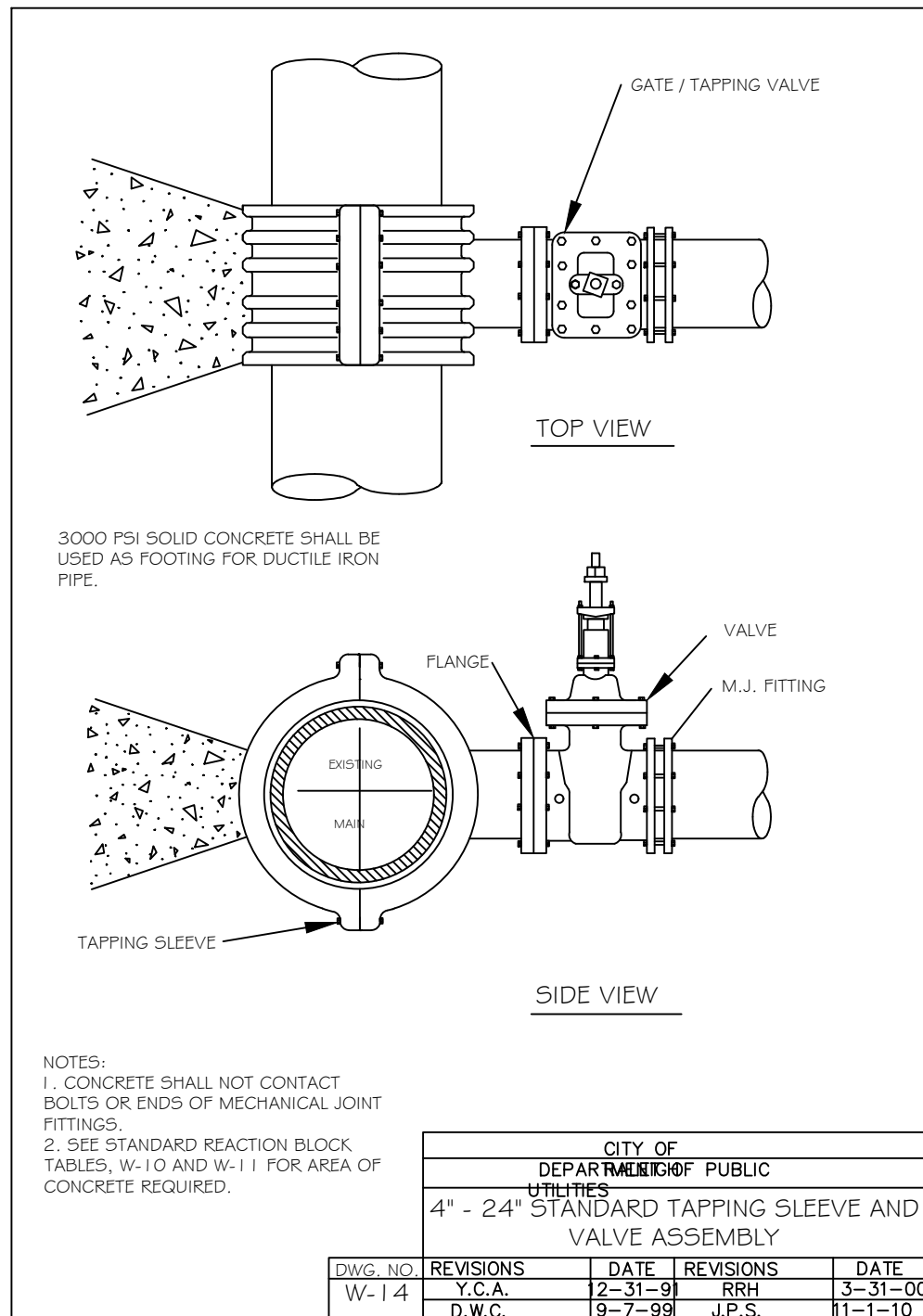
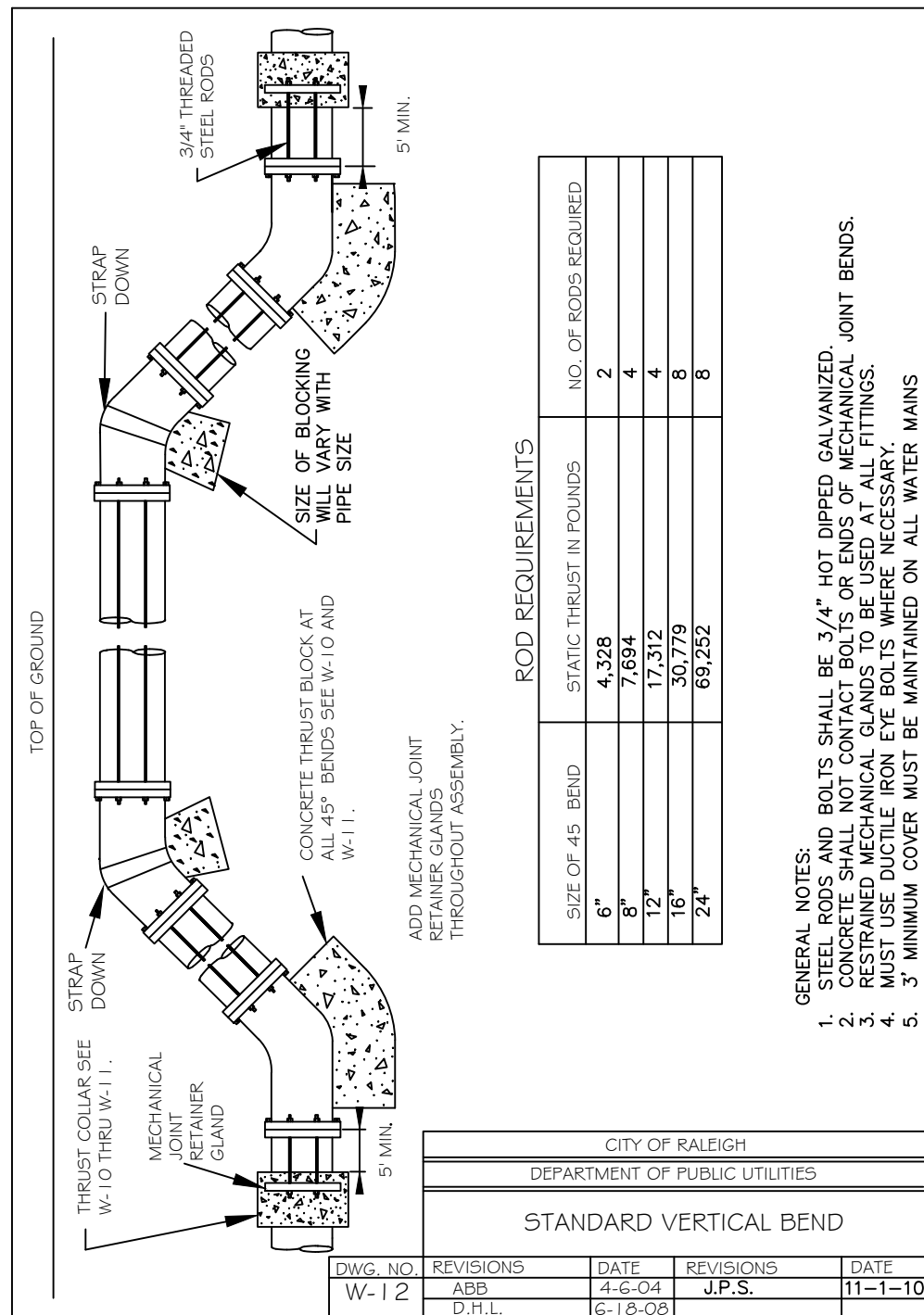
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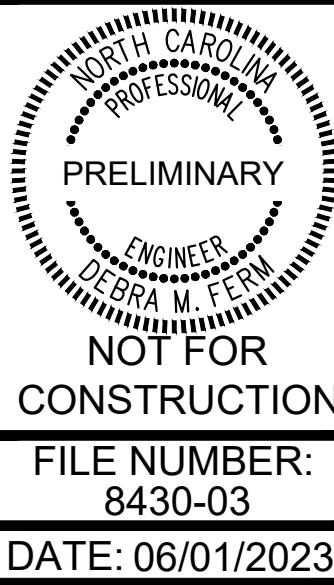
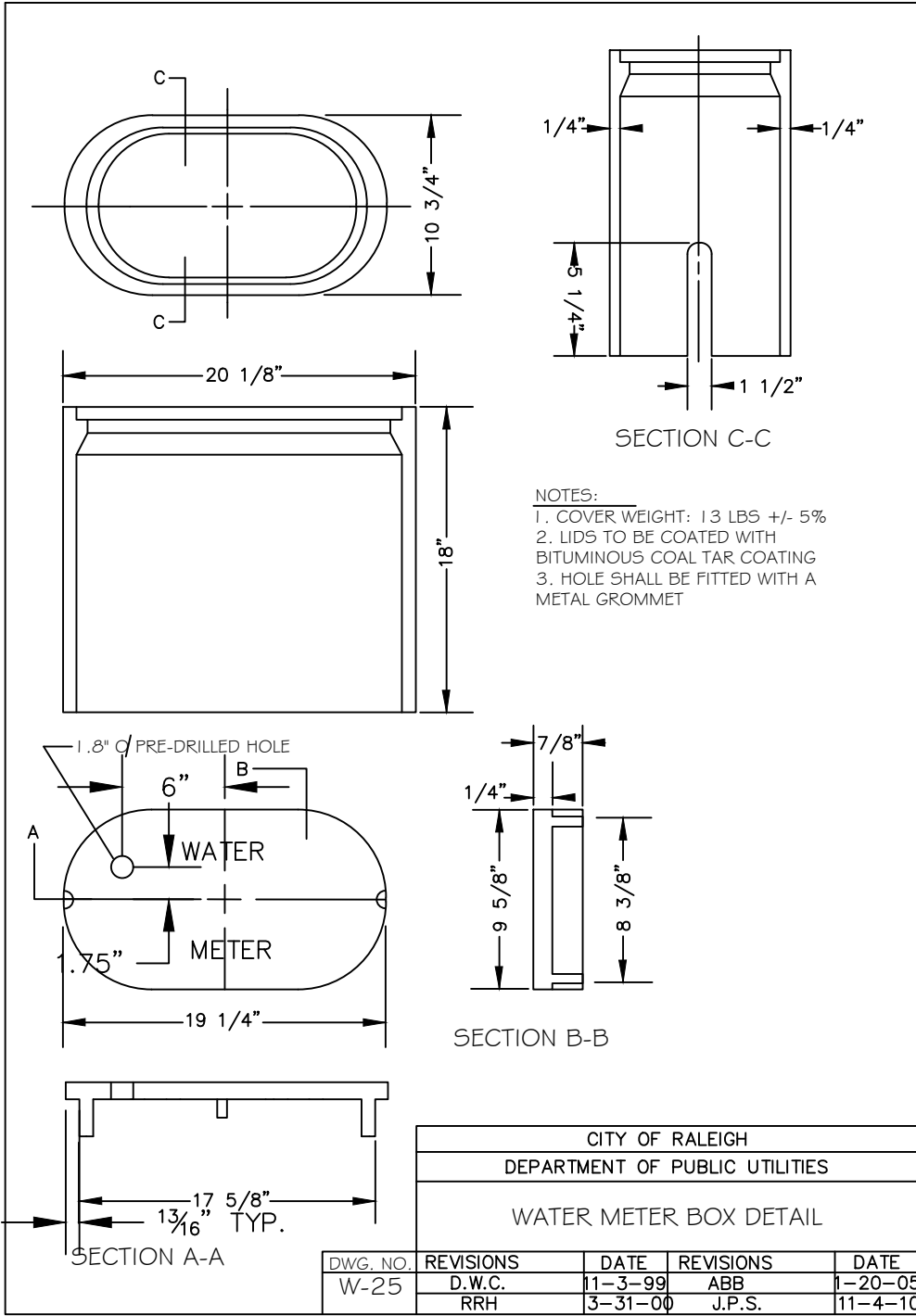


REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE SLEDS BASED ON TEST PRESSURE OF 200 P.S.I.										
ALL AREAS GIVEN IN SQUARE FEET										
	SIZE AND DEGREE OF SAND	SYNTH. RUBBER (IN)	WOODSHEED 150' LAY	SOFT SAND 150' LAY	1600 150' LAY	2000 150' LAY	2000 150' LAY	2000 150' LAY	2000 150' LAY	2000 150' LAY
6"										
11 1/4"	1,108	1	1	1	1	1	1	2	1	
22 1/2"	2,207	1	2	2	1	1	1	3	1	
45°	4,328	2	3	3	1	1	2	5	1	
90°	7,996	2	4	5	1	1	2	8	1	
FLUG	5,655	2	3	4	1	1	2	6	1	
8"										
11 1/4"	1,970	1	1	2	1	1	1	2	1	
22 1/2"	3,922	1	2	3	1	1	1	4	1	
45°	7,694	2	4	5	1	1	2	8	1	
90°	14,215	4	8	9	2	2	4	15	2	
FLUG	10,053	3	5	6	2	2	3	10	1	
12"										
11 1/4"	4,433	2	3	3	1	1	2	5	1	
22 1/2"	8,826	3	5	6	2	2	3	9	1	
45°	17,312	5	9	11	3	3	5	18	2	
90°	31,983	8	16	19	4	4	8	32	4	
FLUG	22,619	6	12	14	3	3	6	23	3	
16"										
11 1/4"	7,881	2	4	5	1	1	2	8	1	
22 1/2"	15,691	4	8	10	2	2	4	16	2	
45°	30,779	8	16	19	4	4	8	31	4	
90°	58,861	15	29	35	8	8	15	57	6	
FLUG	40,213	10	21	25	5	5	10	41	5	

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

CITY OF RALPH				
DEPARTMENT OF PUBLIC UTILITIES				
THRUST BLOCKING DESIGN QUANTITY TABLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-10	P.W.C.			





WATER DETAIL (2 OF 2)

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

**LENNAR
CORPORAION**
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

REV 04/03/2023
06/01/2023

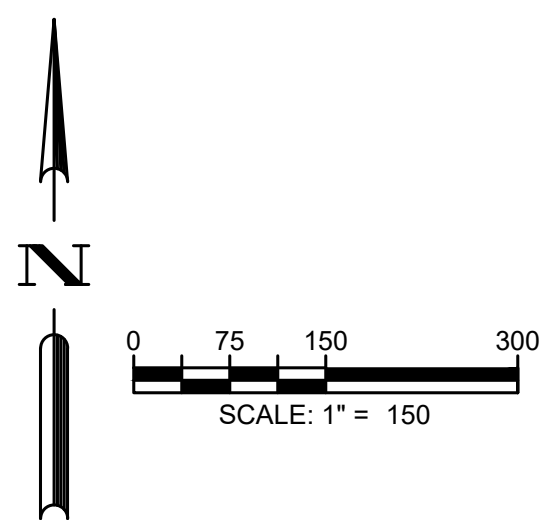
PER TOWN OF ROLESVILLE COMMENT
INITIAL SUBMITTAL

C8-7



OPEN SPACE CALCULATIONS				
TOTAL SITE AREA	85.27	AC		
RM CLUSTER DISTRICT (SINGLE-FAMILY DETACHED)				
RM CLUSTER ZONING DISTRICT AREA	57.89	AC		
REQUIRED PASSIVE OPEN SPACE (12%)	6.95	AC		
REQUIRED ACTIVE OPEN SPACE (50% OF PASSIVE OPEN SPACE)	3.47	AC		
RH CLUSTER DISTRICT (TOWNHOMES)				
RH CLUSTER ZONING DISTRICT AREA	27.38	AC		
REQUIRED PASSIVE OPEN SPACE (15%)	4.11	AC		
REQUIRED ACTIVE OPEN SPACE (50% OF PASSIVE OPEN SPACE)	2.05	AC		
REQUIRED OPEN SPACE				
PASSIVE OPEN SPACE	11.05	AC		
ACTIVE OPEN SPACE	5.53	AC		
REQUIRED CLUSTER OPEN SPACE (40%)	34.11	AC		
PROVIDED OPEN SPACE				
PASSIVE OPEN SPACE	24.74	AC		
STORMWATER PONDS (5% MAXIMUM)	0.00	AC		0.00%
NATURAL RESOURCE AREAS (20% MAXIMUM)	3.85	AC		11.29%
ACTIVE OPEN SPACE	5.54	AC		
TOTAL PROVIDED OPEN SPACE	34.13	AC		

OPEN SPACE BREAKDOWN BY AREA										
OPEN SPACE TYPE	OPEN SPACE #1	OPEN SPACE #2	OPEN SPACE #3	OPEN SPACE #4	OPEN SPACE #5	OPEN SPACE #6	OPEN SPACE #7	TOTAL AREA	PERCENTAGE	MAX ALLOWED
PASSIVE OPEN SPACE (AC)	13.43	0.34	2.79	1.21	0.47	0.6	5.9	24.74	NA	NA
STORMWATER PONDS (AC)	0	0	0	0	0	0	0	0	0.0%	5%
NATURAL RESOURCE AREAS (AC)	2.97	0	0.88	0	0	0	0	3.85	11.3%	20%
ACTIVE OPEN SPACE (AC)	1.73	0.33	0.82	0.73	0.16	0.32	1.45	5.54	NA	NA



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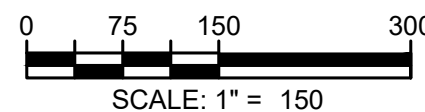
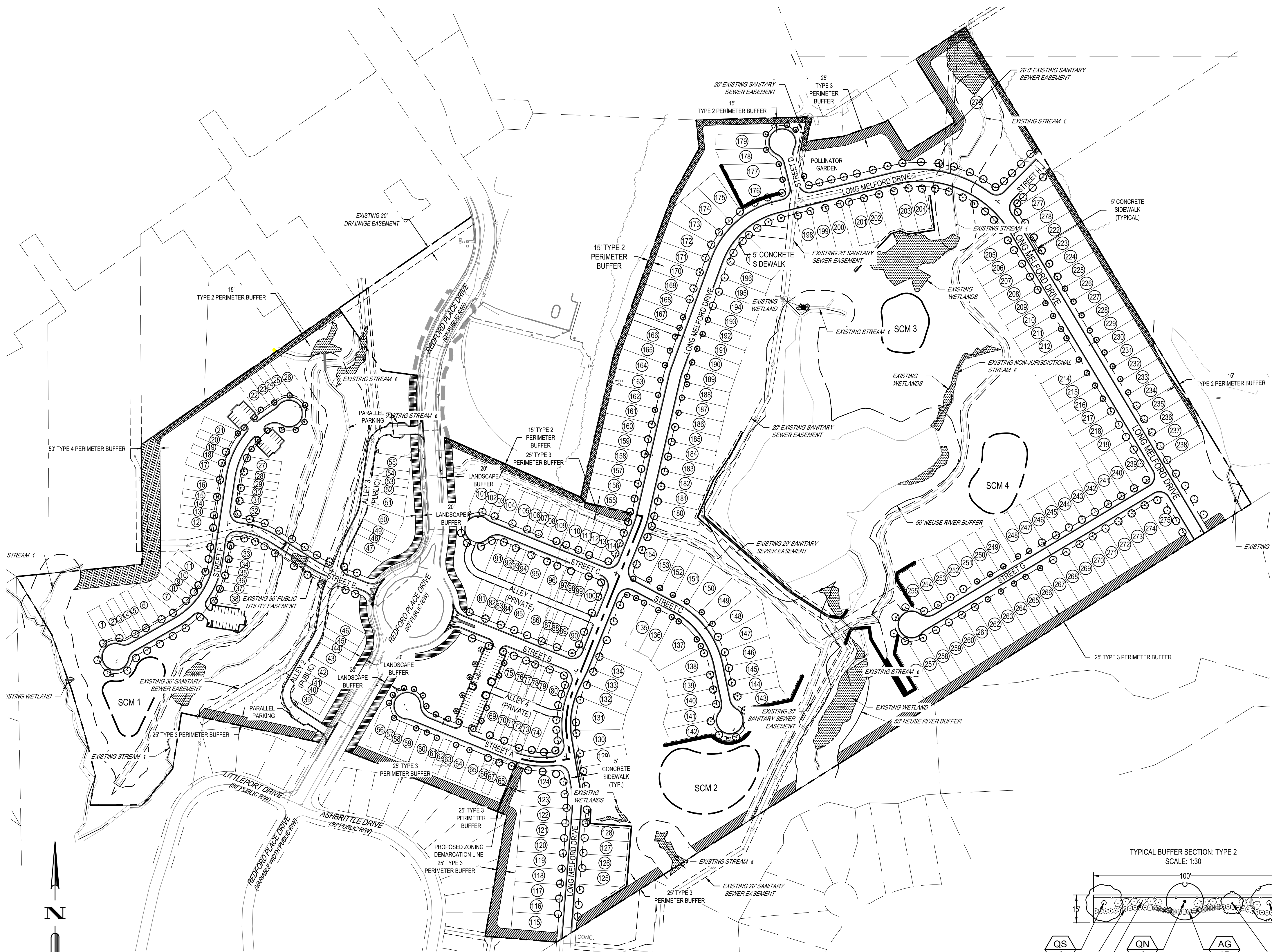


NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 06/01/2023

C9-0



BUFFER LANDSCAPE (QUANTITIES T.B.D.)

CANOPY TREES	CODE	BOTANICAL NAME	COMMON NAME	CAL	HT
	QS	Quercus shumardii	Shumard Oak	2" MIN.	8' MIN.
UNDERSTORY TREES	CODE	BOTANICAL NAME	COMMON NAME	CAL	HT
	CC	Cercis canadensis	Eastern Redbud	1" MIN.	8' MIN.
	MS	Magnolia stellata	Star Magnolia	1" MIN.	8' MIN.
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	HT	SPR
	IC	Ilex cornuta 'Burfordii Nana'	Dwarf Burford Holly	18-24"	18-24"
	IR	Ilex crenata 'Rotundifolia'	Japanese Holly	18-24"	18-24"
	IG	Ilex glabra	Inkberry Holly	18-24"	18-24"
	LC	Loropetalum chinense	Chinese Fringe Flower	18-24"	18-24"

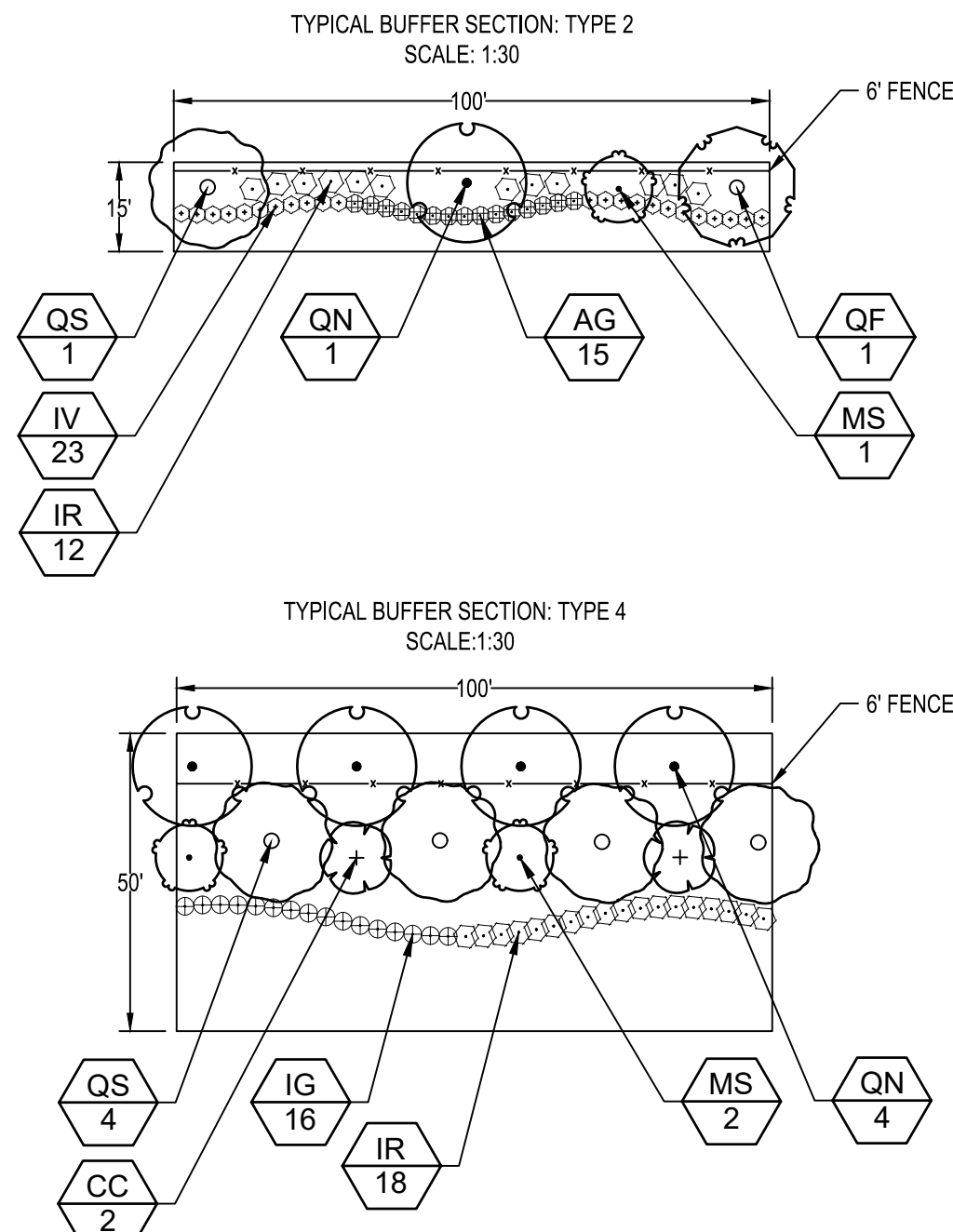
PARKING LANDSCAPE

PARKING LOT 'A'
REQUIRED: PERIMETER SHRUBS 3' O.C.
ROADWAY SCREENING
PROVIDED: 56 SHRUBS

REQUIRED: 1 TREE / 150 SF OF PARKING ISLANDS
1,689 SF PARKING ISLANDS = 11 TREES
PROVIDED: 12 TREES

PARKING LOT 'B'
REQUIRED: PERIMETER SHRUBS 3' O.C.
ROADWAY SCREENING
PROVIDED: 56 SHRUBS

PARKING LOT 'C'
REQUIRED: PERIMETER SHRUBS 3' O.C.
ROADWAY SCREENING
PROVIDED: 28 SHRUBS



PLANT SCHEDULE

CANOPY TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CAL	HT
	KP	5	Koelreuteria paniculata	Golden Rain Tree	2" MIN.	8' MIN.
	PS	98	Pistacia chinensis	Chinese Pistache	2" MIN.	8' MIN.
	QC	81	Quercus coccinea	Scarlet Oak	2" MIN.	8' MIN.
	QF	61	Quercus falcata	Southern Red Oak	2" MIN.	8' MIN.
	QN	95	Quercus nuttallii	Nuttall Oak	2" MIN.	8' MIN.
	ZS	68	Zelkova serrata	Sawleaf Zelkova	2" MIN.	8' MIN.
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	HT	SPR
	AG	56	Abelia x grandiflora	Glossy Abelia	18-24"	18-24"
	IV	47	Ilex vomitoria 'Nana'	Dwarf Yaupon	18-24"	18-24"

LANDSCAPE BUFFERS

PERIMETER BUFFER TYPE 2: 15' WIDTH, 3,338 TOTAL LF
REQUIRED: 3 CANOPY TREES PER 100 LF
1 UNDERSTORY TREE PER 100 LF
50 SHRUBS PER 100 LF
6' FENCE
PROVIDED: *SEE NOTE BELOW

PERIMETER BUFFER TYPE 3: 25' WIDTH, 3,884 TOTAL LF
REQUIRED: 4 CANOPY TREES PER 100 LF
2 UNDERSTORY TREES PER 100 LF
60 SHRUBS PER 100 LF
6' WALL (6' FENCE PER ZONING)
PROVIDED: *SEE NOTE BELOW

PERIMETER BUFFER TYPE 4: 50' WIDTH, 517 TOTAL LF
REQUIRED: 8 CANOPY TREES PER 100 LF
4 UNDERSTORY TREES PER 100 LF
CONTINUOUS HEDGE
3' WALL + 5' BERM (6' FENCE PER ZONING)
PROVIDED: *SEE NOTE BELOW

STREET BUFFER - REDFORD PLACE DRIVE: 20' WIDTH, 2,037 LF OF FRONTAGE
REQUIRED: 1 STREET TREE EVERY 40 LF OF FRONTAGE
2,037 LF OF FRONTAGE / 40' = 23 TREES
EXISTING STREET TREES SHALL SATISFY STREET TREE REQUIREMENT

* IF EXISTING CANOPY DOES NOT MEET BUFFER REQUIREMENTS, ADDITIONAL PLANTINGS MUST BE ADDED TO FULFILL BUFFER REQUIREMENTS (SEE TYPICAL BUFFER SECTIONS).

STREET TREES

REQUIRED: 1 STREET TREE EVERY 40 LF OF FRONTAGE

STREET A
REQUIRED: 918 LF OF FRONTAGE / 40' = 23 TREES
PROVIDED: 28 TREES

STREET B
REQUIRED: 554 LF OF FRONTAGE / 40' = 14 TREES
PROVIDED: 14 TREES

STREET C
REQUIRED: 1,722 LF OF FRONTAGE / 40' = 43 TREES
PROVIDED: 52 TREES

STREET D
REQUIRED: 292 LF OF FRONTAGE / 40' = 7 TREES
PROVIDED: 7 TREES

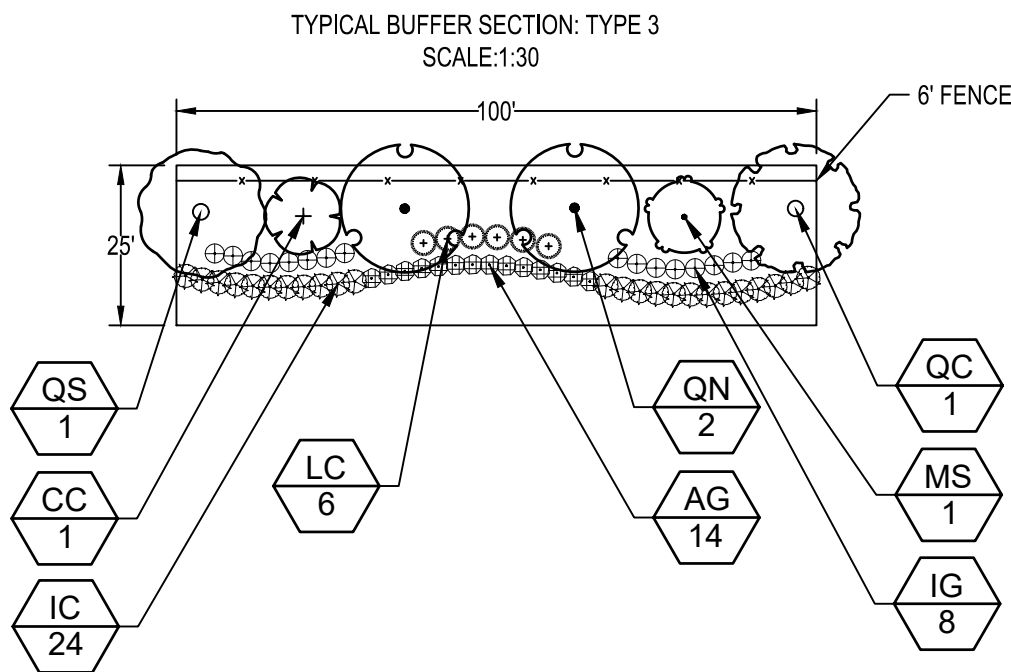
STREET E
REQUIRED: 704 LF OF FRONTAGE / 40' = 18 TREES
PROVIDED: 18 TREES

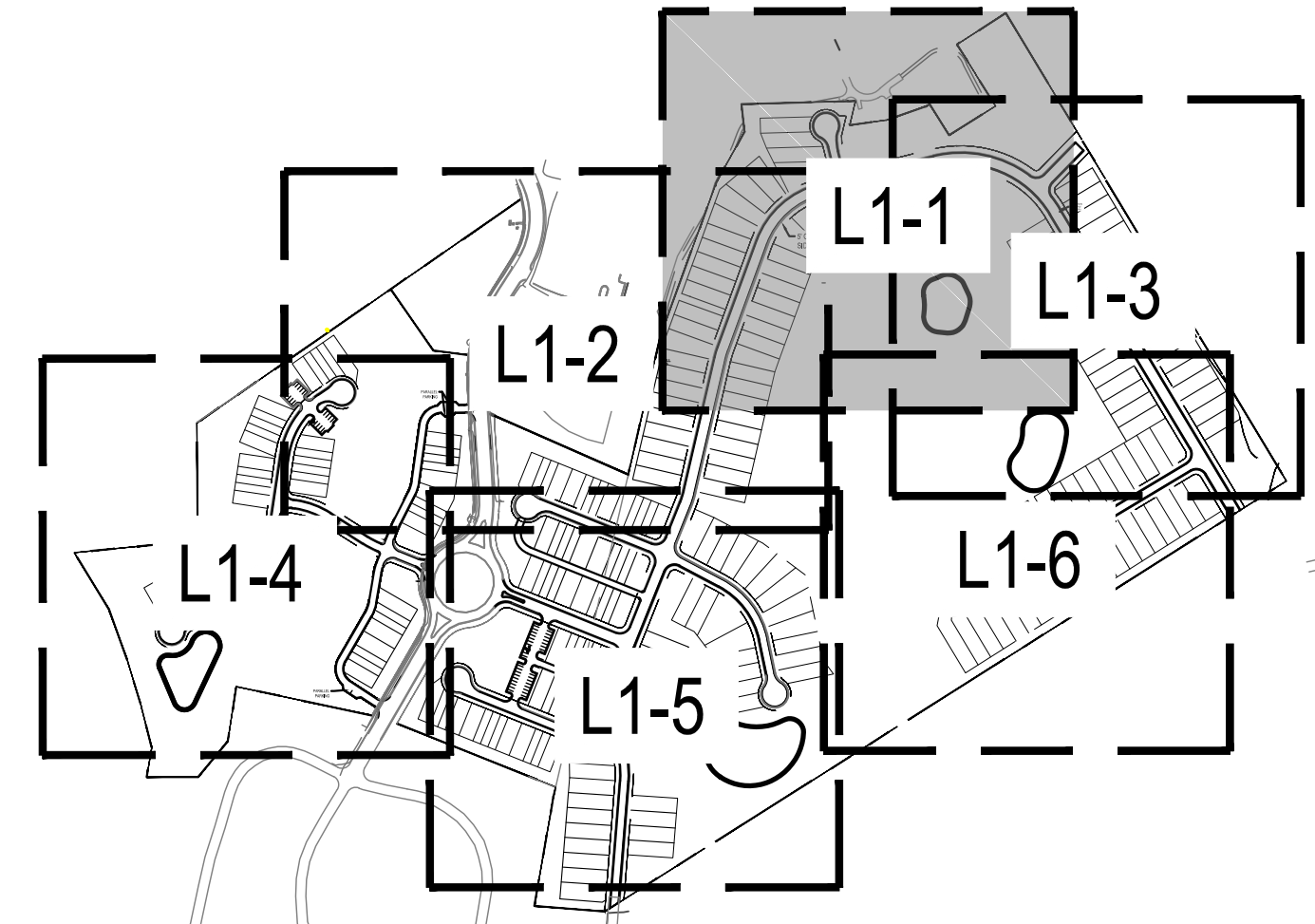
STREET F
REQUIRED: 1,660 LF OF FRONTAGE / 40' = 41 TREES
PROVIDED: 50 TREES

STREET G
REQUIRED: 1,528 LF OF FRONTAGE / 40' = 38 TREES
PROVIDED: 41 TREES

STREET H
REQUIRED: 264 LF OF FRONTAGE / 40' = 7 TREES
PROVIDED: 7 TREES

LONG MELFORD DRIVE
REQUIRED: 7,276 LF OF FRONTAGE / 40' = 182 TREES
PROVIDED: 182 TREES





LANDSCAPE BUFFERS

PERIMETER BUFFER TYPE 2 (15' WIDTH)

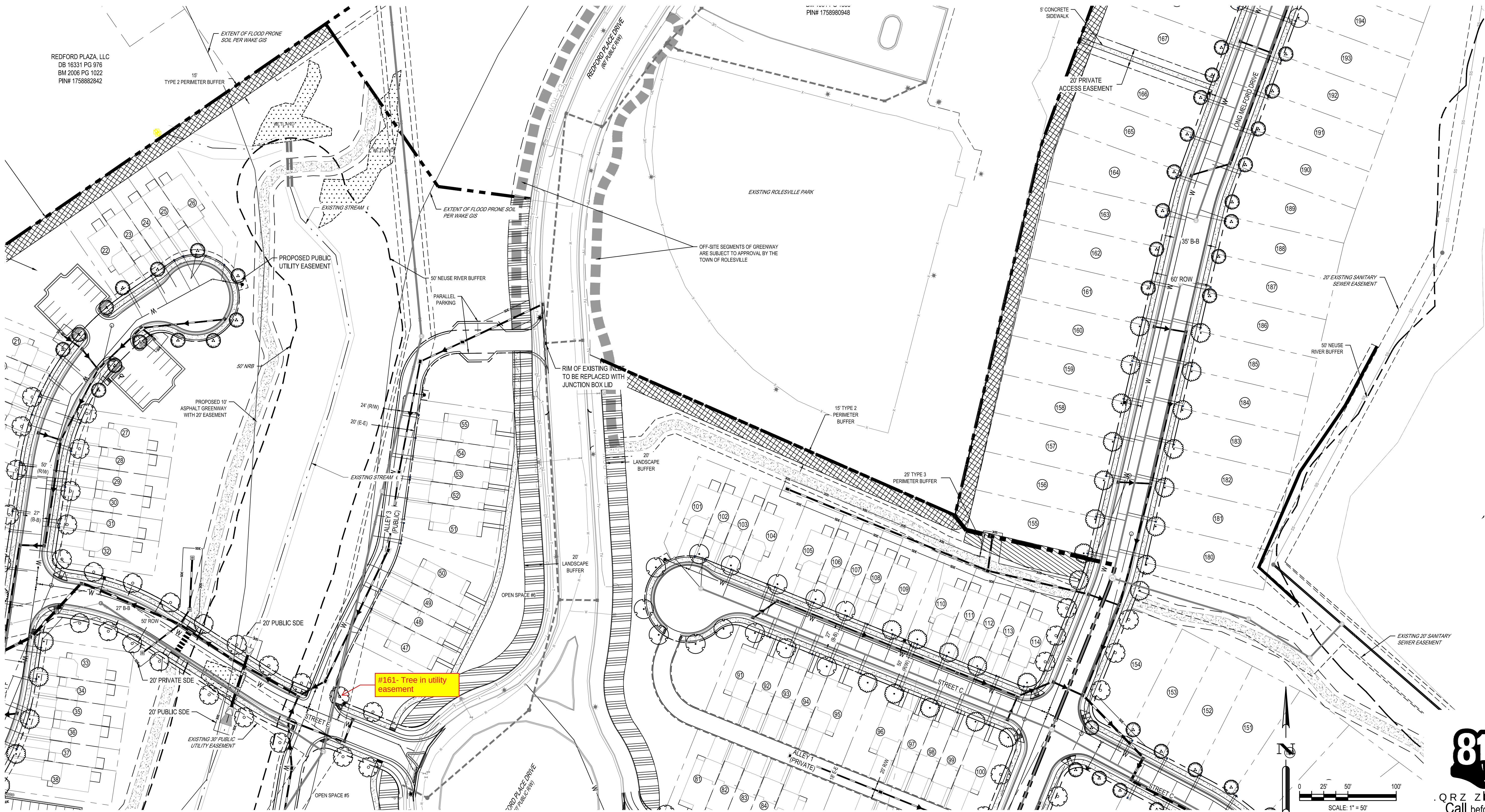
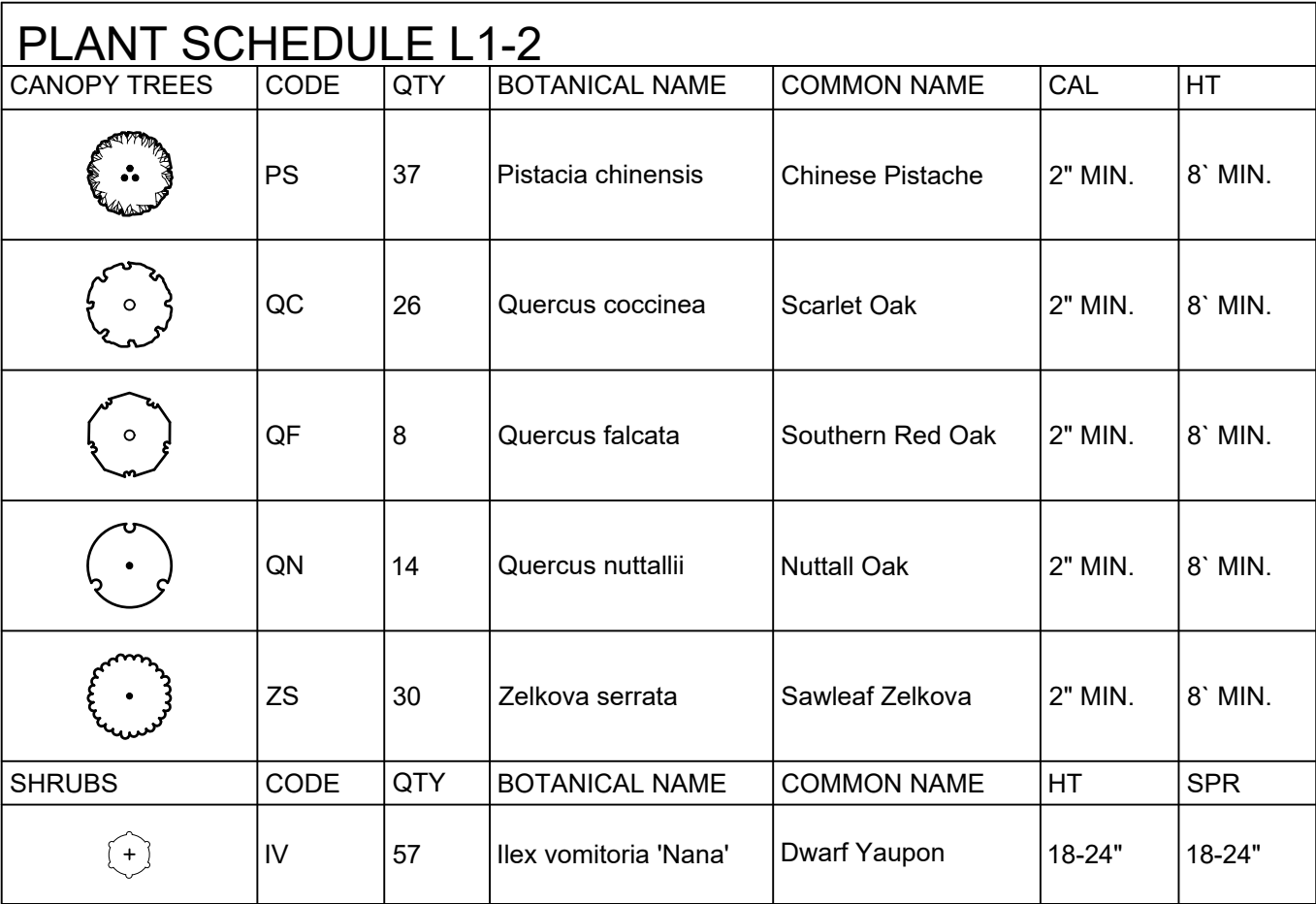
PERIMETER BUFFER TYPE 3 (25' WIDTH)

PERIMETER BUFFER TYPE 4 (50' WIDTH)

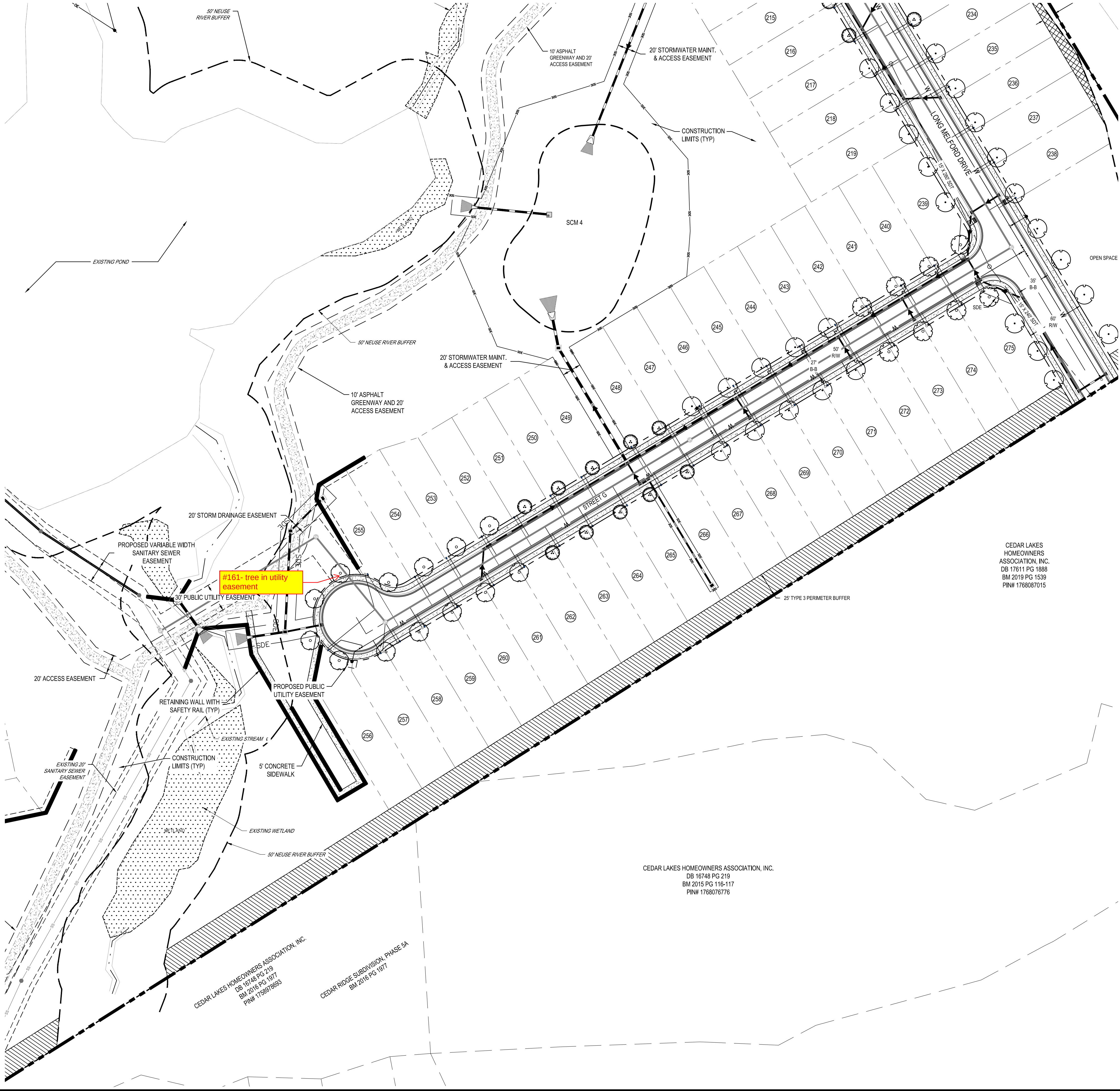
STREET BUFFER (20' WIDTH)

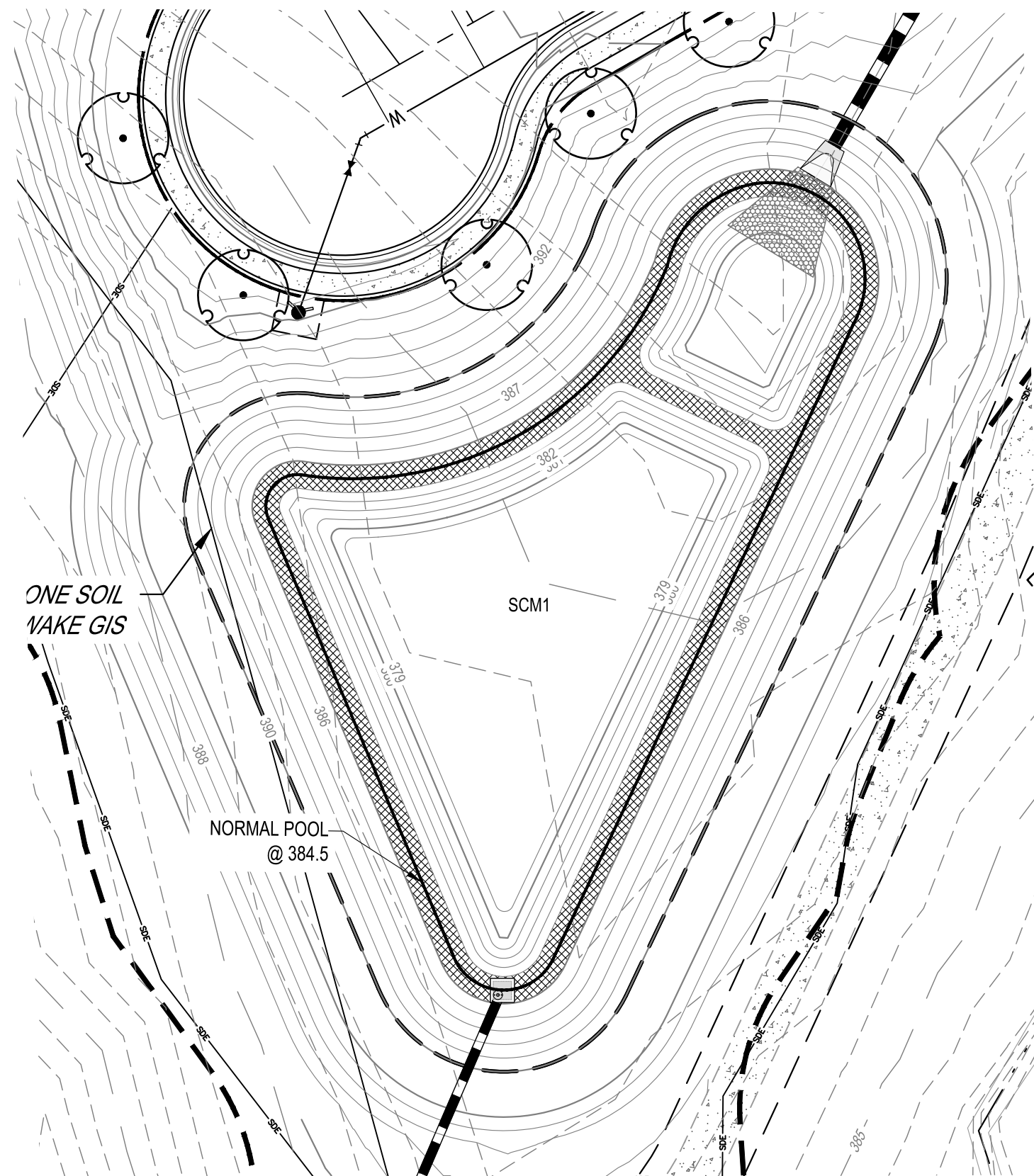


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SCM 1 PLANTING CALCULATIONS

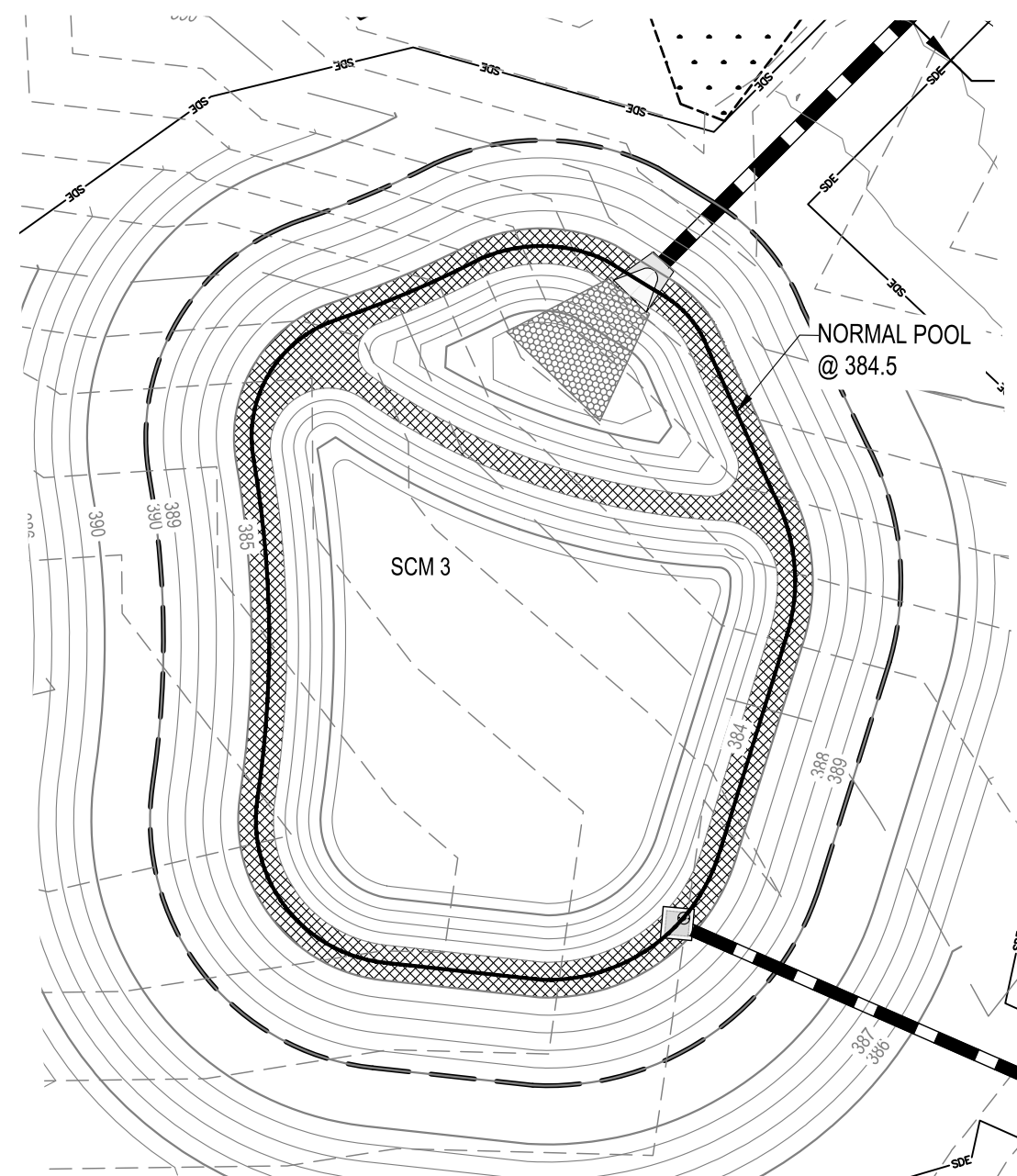
NORMAL POOL ELEVATION: 384.5

VEGETATED SHELF: 3,065 S.F. (0.5' BELOW TO 0.5' ABOVE PERMANENT POND ELEV.)

REQUIRED: .25 PLANTS PER SQUARE FOOT
(3 MINIMUM HERBACEOUS SPECIES)
0.25 PLANTS x 3,065 SF = 766 PLANTS
PROVIDED: (255) HC, (255) LC, (255) CT

SCM 1 PLANTING SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
HC	255	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5" PLUG
LC	255	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5" PLUG
CT	255	CAREX TENERA	QUILL SEDGE	24"Ø x 5" PLUG

 VEGETATED SHELF MIX

SCM 3 PLANTING CALCULATIONS

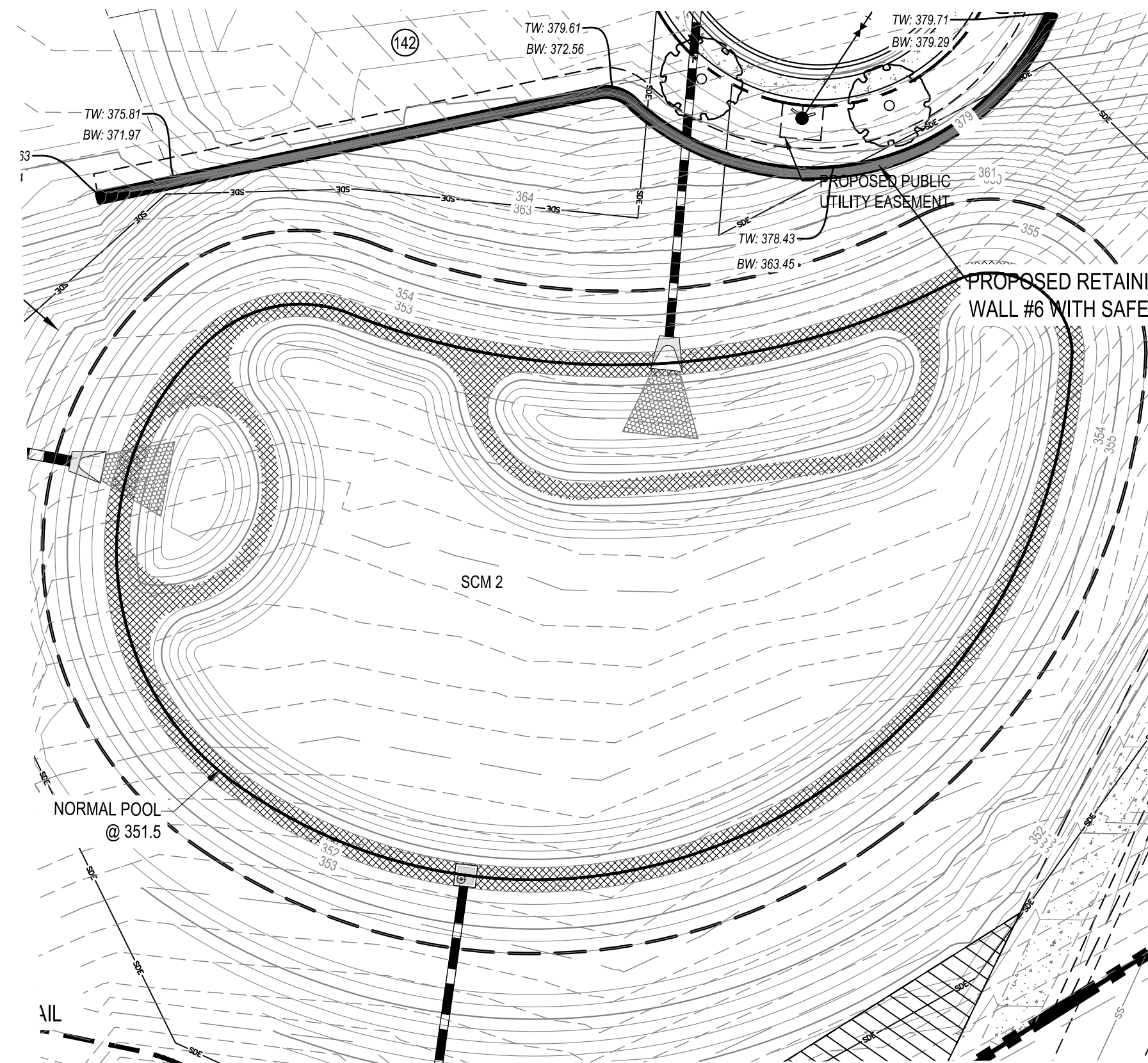
NORMAL POOL ELEVATION: 384.5

VEGETATED SHELF: 2,574 S.F. (0.5' BELOW TO 0.5'
ABOVE PERMANENT POND ELEV.)

REQUIRED: .25 PLANTS PER SQUARE FOOT
(3 MINIMUM HERBACEOUS SPECIES)
0.25 PLANTS x 2,574 SF = 644 PLANTS
PROVIDED: (215) HC, (215) LC, (215) CT

SCM 3 PLANTING SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CON.
HC	215	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5" PLUG
LC	215	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5" PLUG
CT	215	CAREX TENERA	QUILL SEDGE	24"Ø x 5" PLUG

 VEGETATED SHELF MIX

SCM 2 PLANTING CALCULATIONS

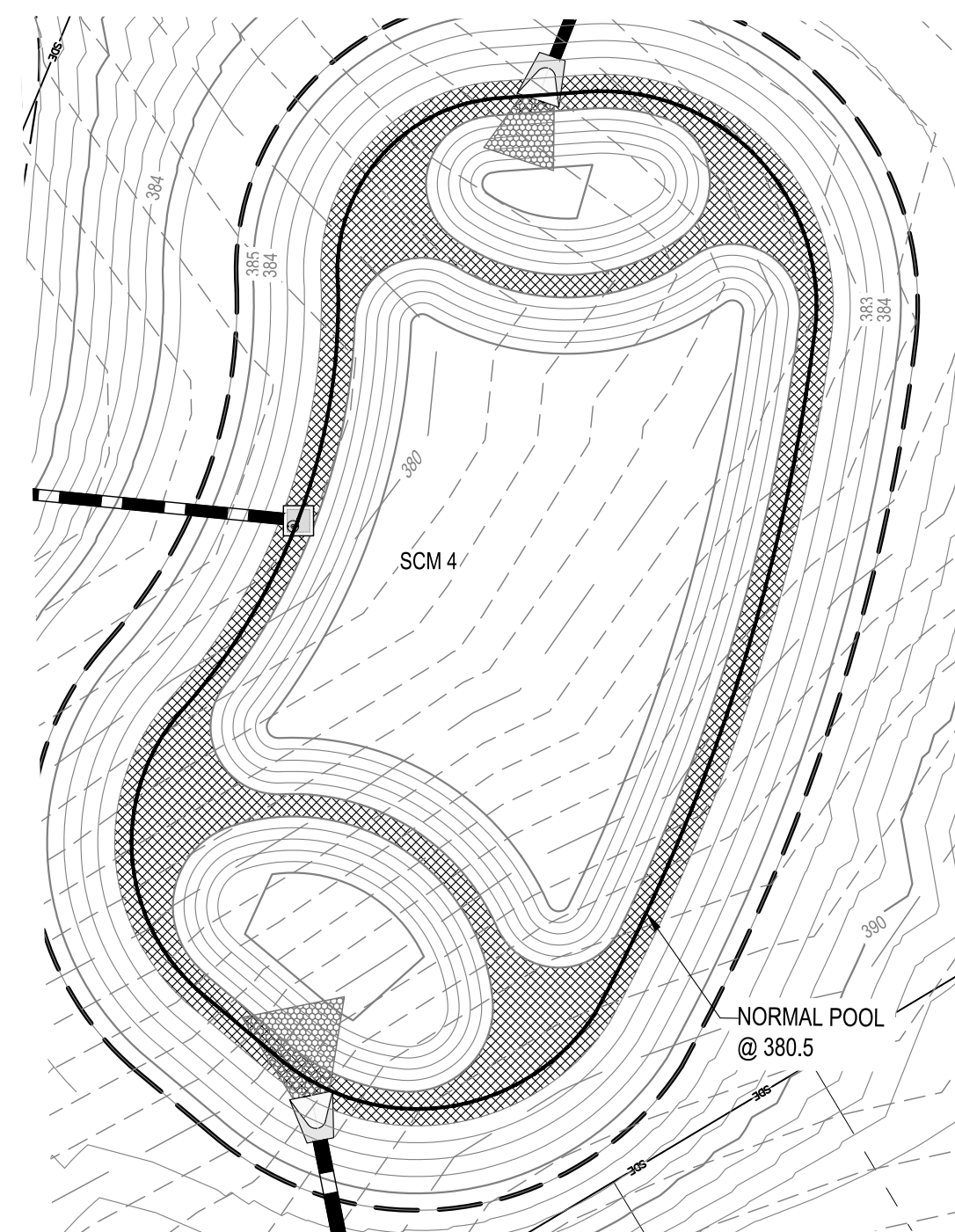
NORMAL POOL ELEVATION: 351.5

VEGETATED SHELF: 5,108 S.F. (0.5' BELOW TO 0.5' ABOVE PERMANENT POND ELEV.)

REQUIRED: .25 PLANTS PER SQUARE FOOT
(3 MINIMUM HERBACEOUS SPECIES)
0.25 PLANTS x 5,108 SF = 1,277 PLANTS
PROVIDED: (426) HC, (426) LC, (426) CT

SCM 2 PLANTING SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CON.
HC	426	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5" PLUG
LC	426	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5" PLUG
CT	426	CAREX TENERA	QUILL SEDGE	24"Ø x 5" PLUG

 VEGETATED SHELF MIX

SCM 4 PLANTING CALCULATIONS

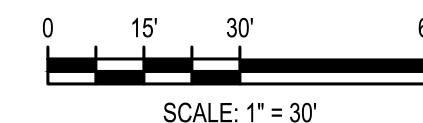
NORMAL POOL ELEVATION: 380.5

VEGETATED SHELF: 4,398 S.F. (0.5' BELOW TO 0.5' ABOVE PERMANENT POND ELEV.)

REQUIRED: .25 PLANTS PER SQUARE FOOT
(3 MINIMUM HERBACEOUS SPECIES)
0.25 PLANTS x 4,398 SF = 1,100 PLANTS
PROVIDED: (367) HC, (367) LC, (367) CT

SCM 4 PLANTING SCHEDULE

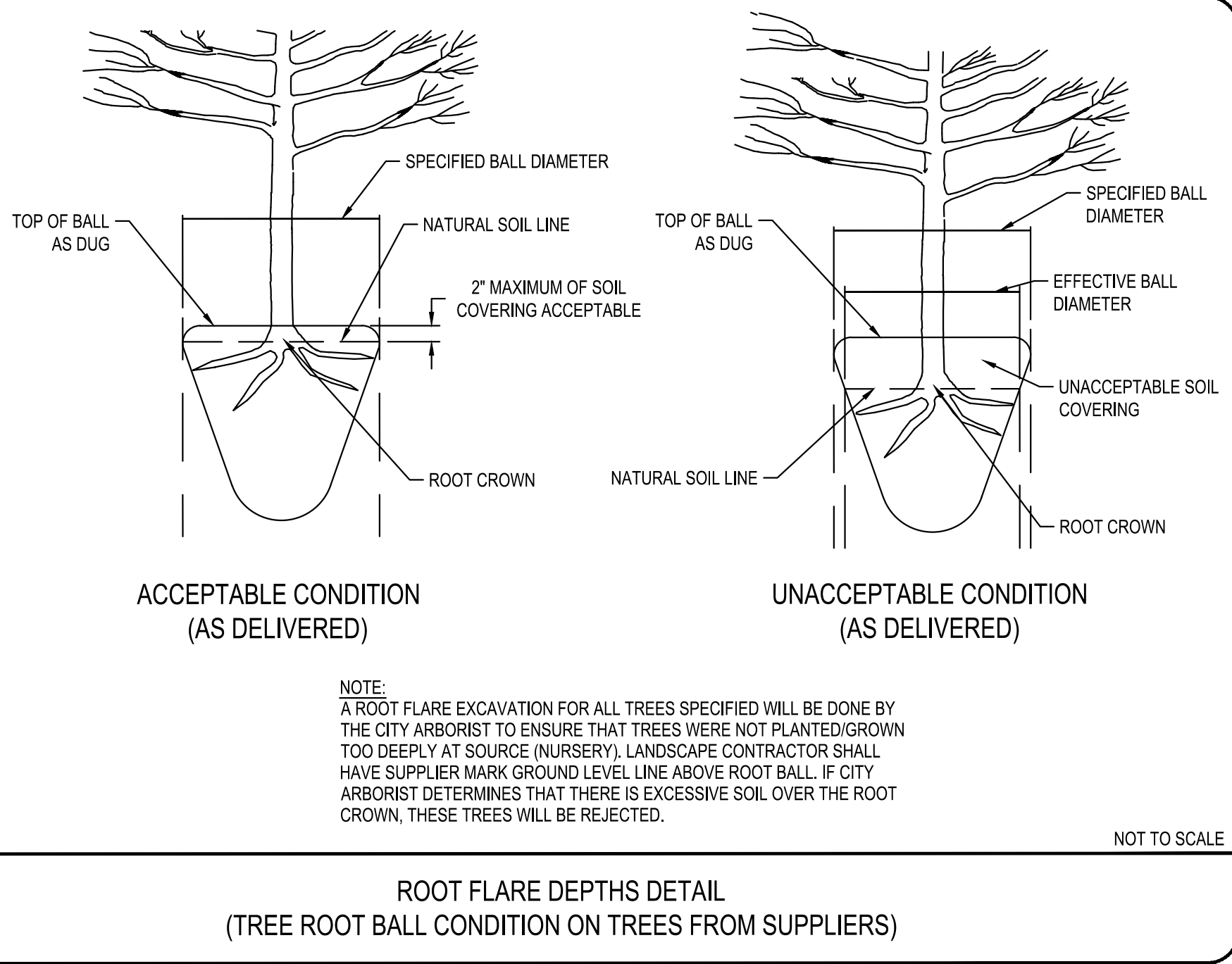
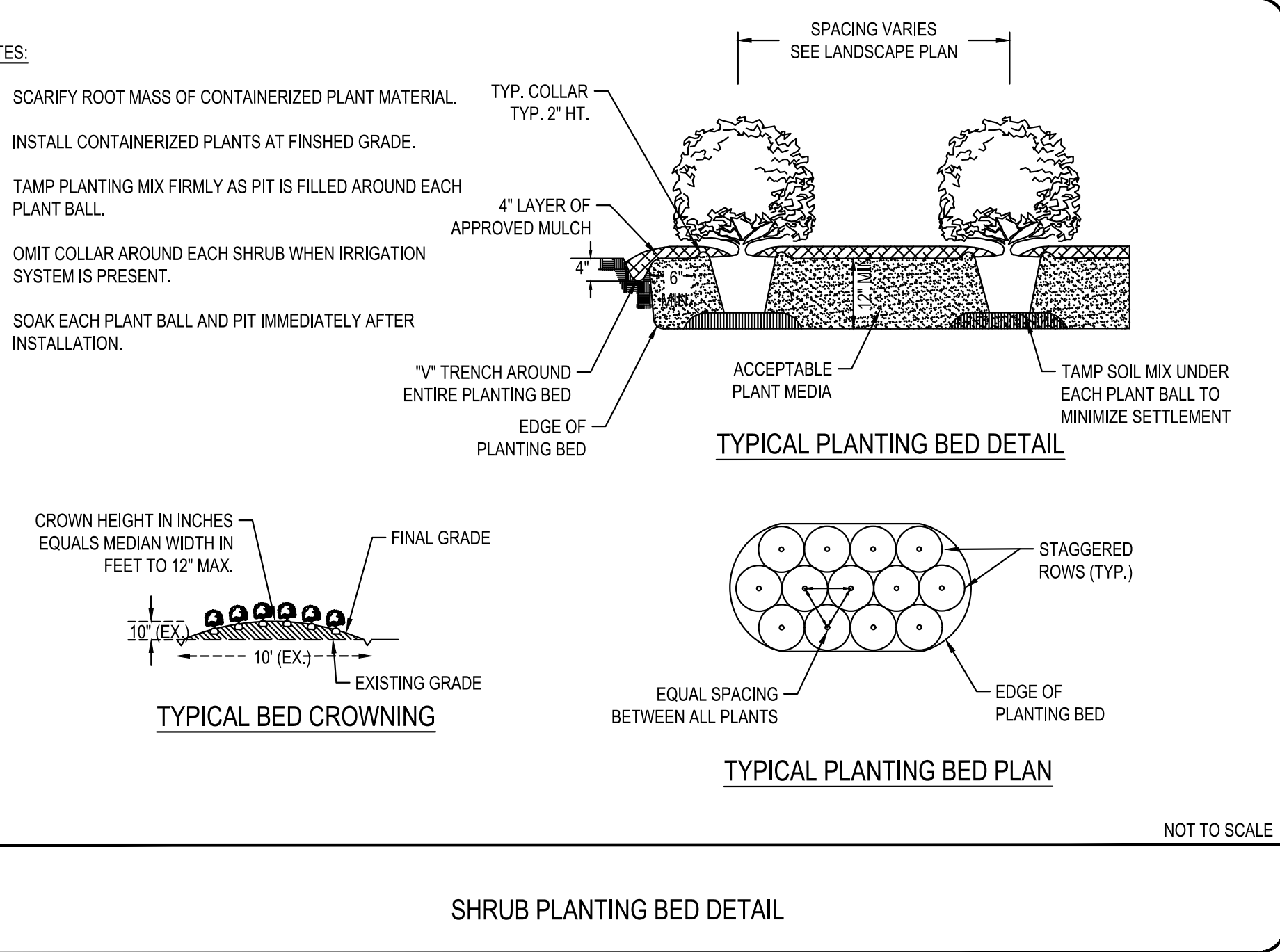
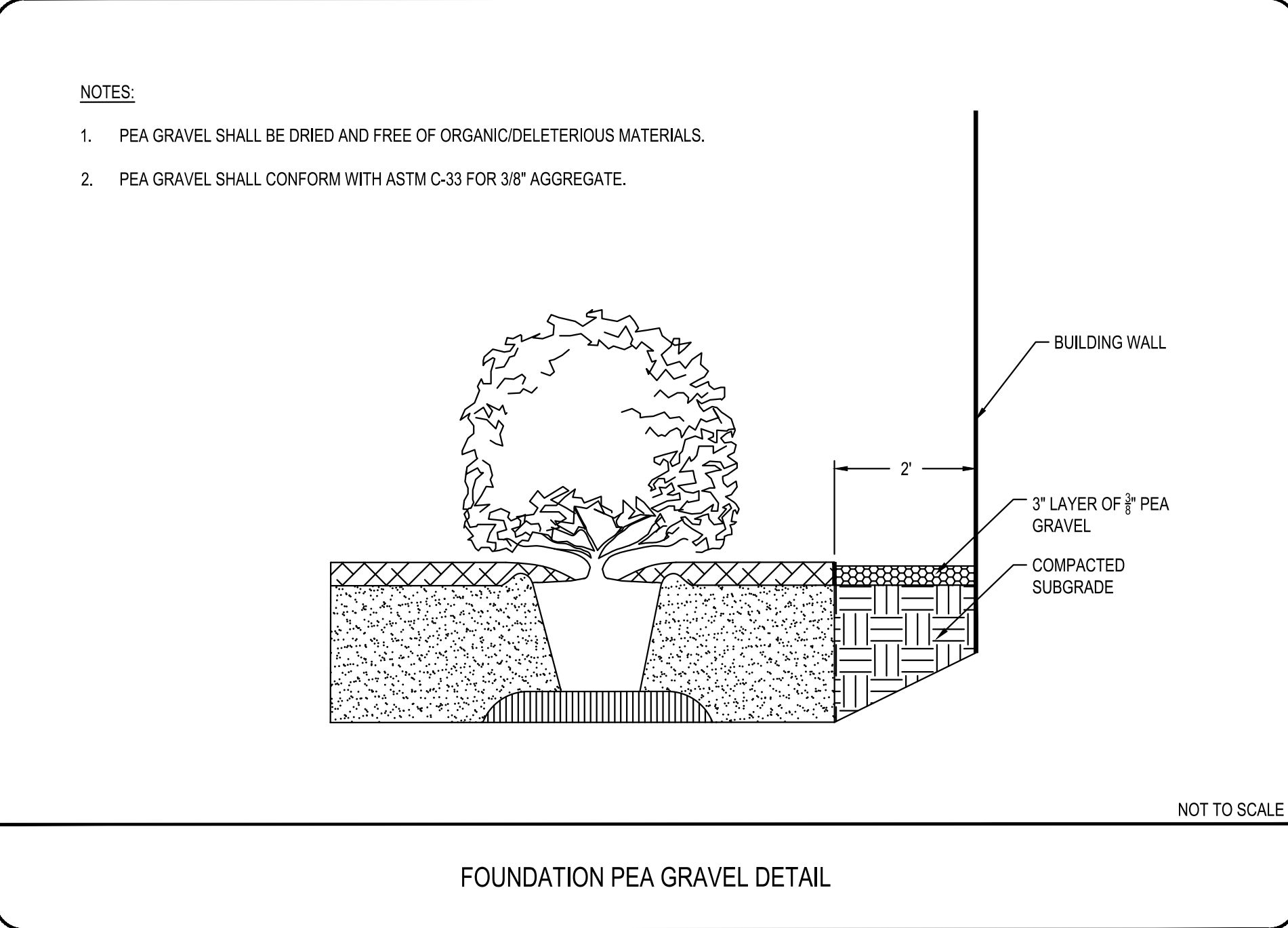
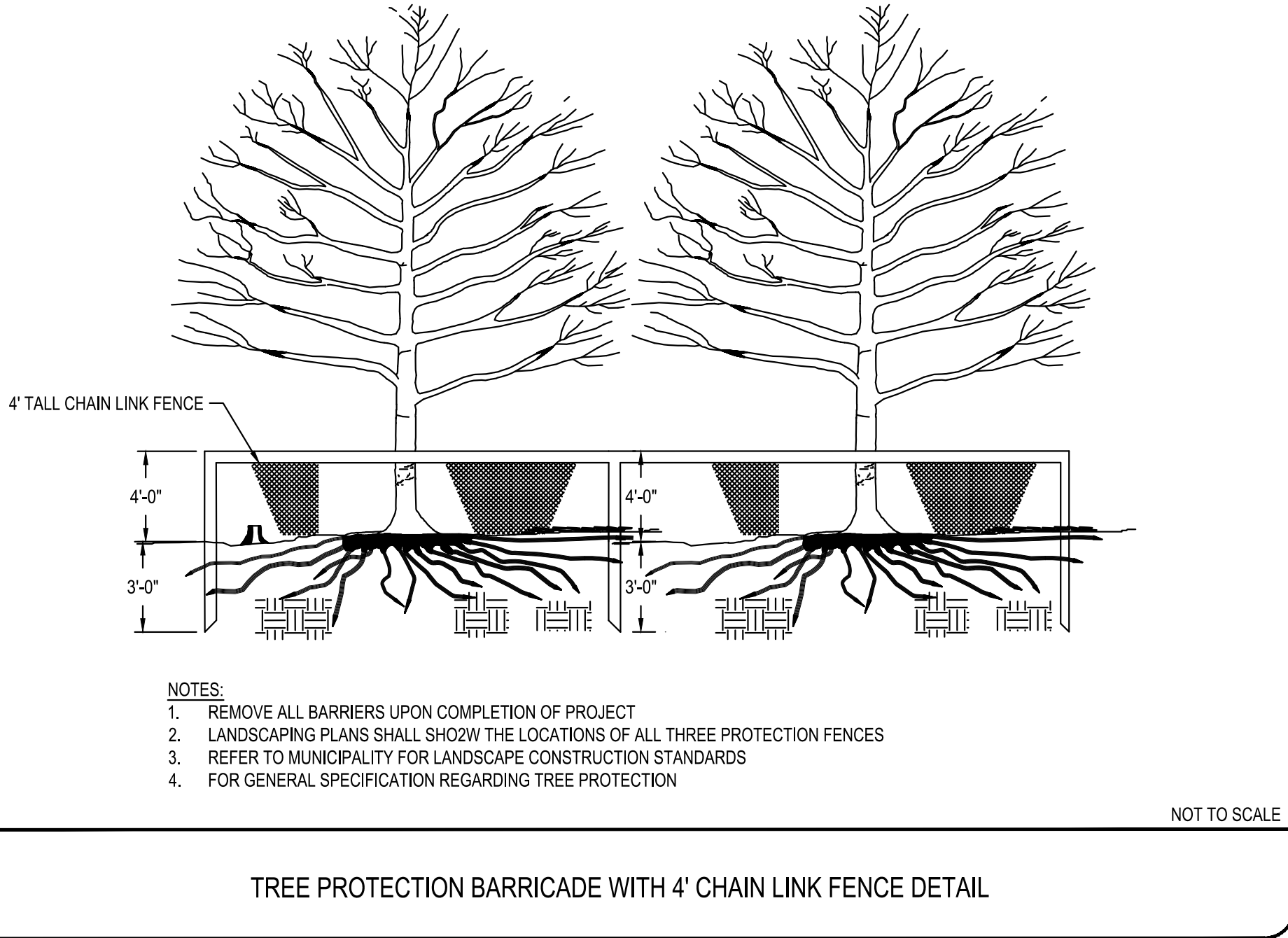
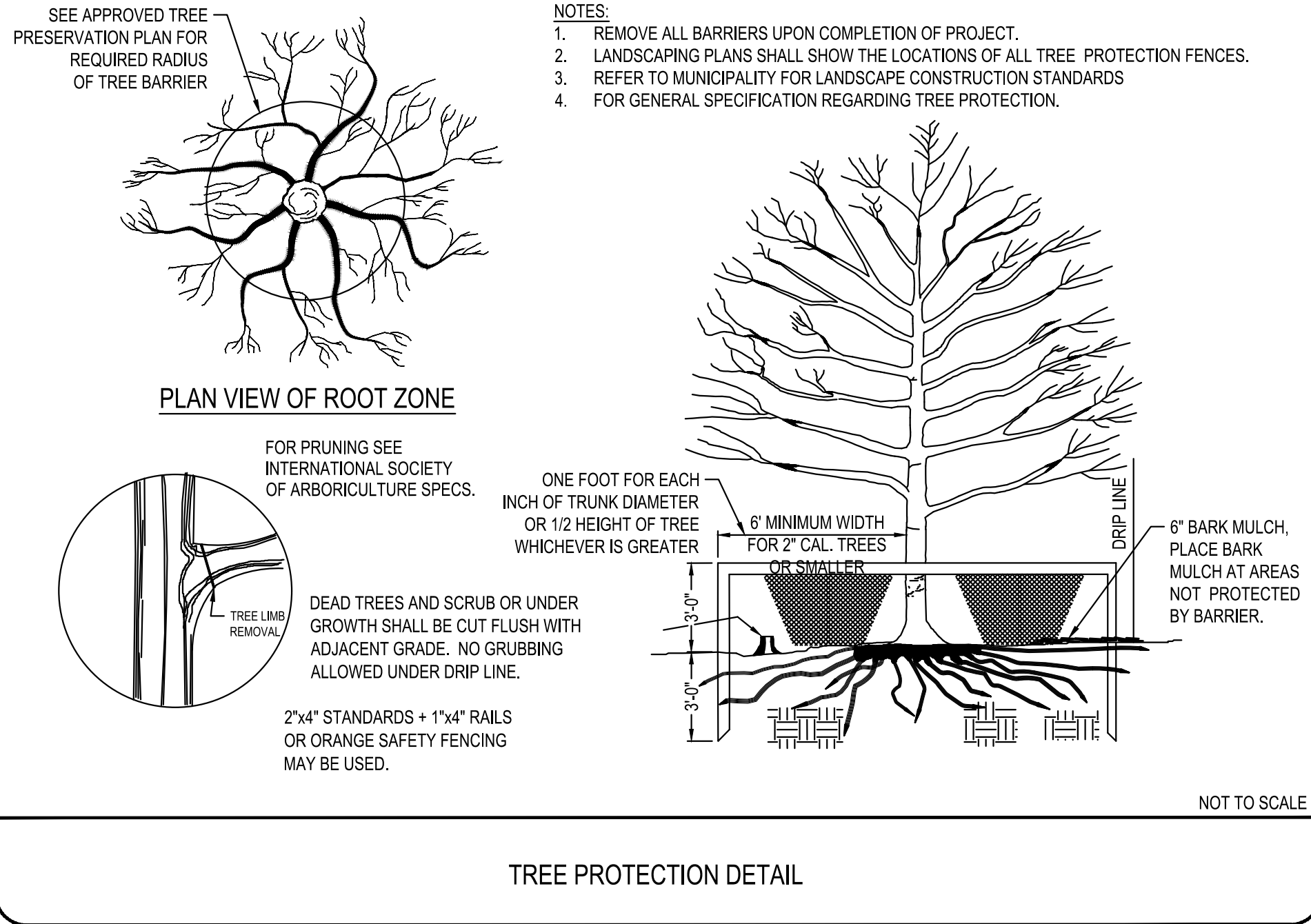
KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CON.
HC	367	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5' PLUG
LC	367	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5' PLUG
CT	367	CAREX TENERA	QUILL SEDGE	24"Ø x 5' PLUG

 VEGETATED SHELF MIX

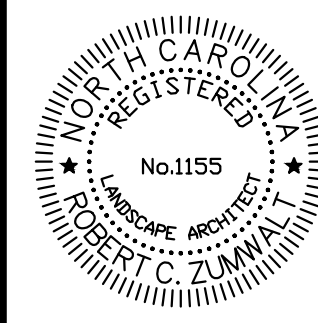
NOTES:

NOTES:
TREES AND WOODY SHRUBS ARE NOT PERMITTED ON THE
DAM OR EMBANKMENT SLOPES AND ANY VOLUNTEERS
SHOULD BE REMOVED AS PART OF REGULAR MAINTENANCE
ACTIVITIES.
TREES AND SHRUBS MAY BE PLANTED OUTSIDE OF
EMBANKMENT SLOPES AND CLEAR FROM MAINTENANCE
EASEMENT.

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\L1-2 - LS-DETL.dwg Plotted: 6/1/2023 4:08:32 PM Layout: L1-7 LANDSCAPE DETAILS



Know what's below.
Call before you dig.



NOT FOR CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 06/01/2023

L1-8

LANDSCAPE DETAILS

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

REV 04/03/2023

PER TOWN OF ROLESVILLE COMMENT

INITIAL SUBMITTAL