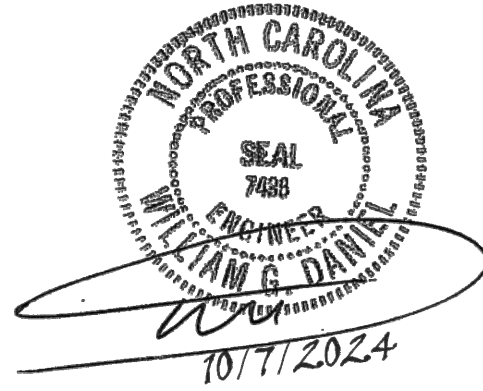


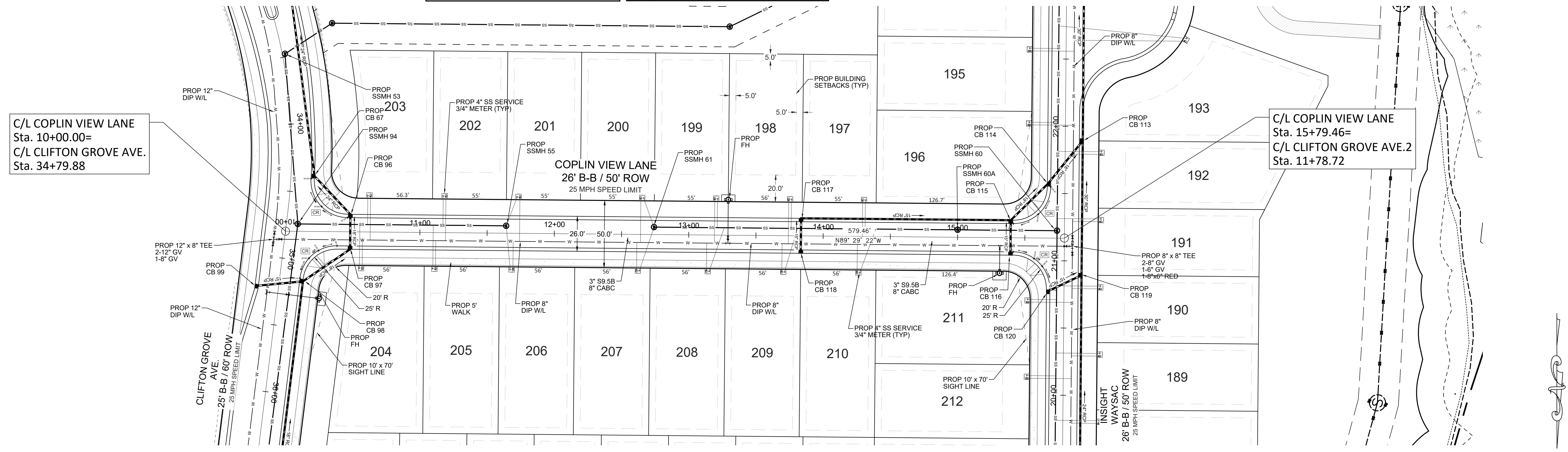
Public Water Distribution / Extension System		Public Sewer Collection / Extension System	
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.		The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.	
City of Raleigh Public Utilities Department Permit #	W-3961	City of Raleigh Public Utilities Department Permit #	S-5098
Authorization to Construct		Authorization to Construct	
Date		Date	

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS AND NCDOT IF APPLICABLE.

Wm. G. Daniel & Assoc.
Engineering Planning
Site Design
1150 SE MAYNARD ROAD
SUITE 280
CARY, NC 27511
Ph:919-467-9708 Fx:919-460-7585
C-0329

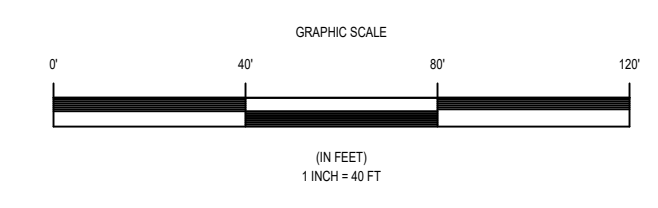
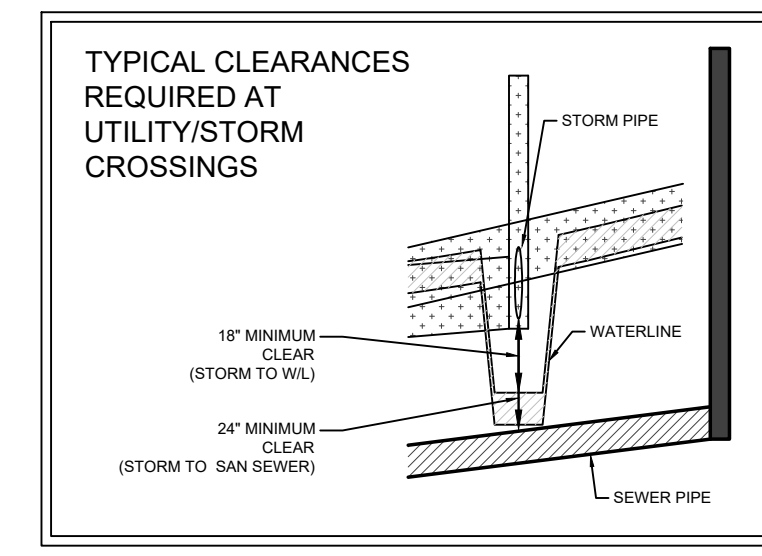
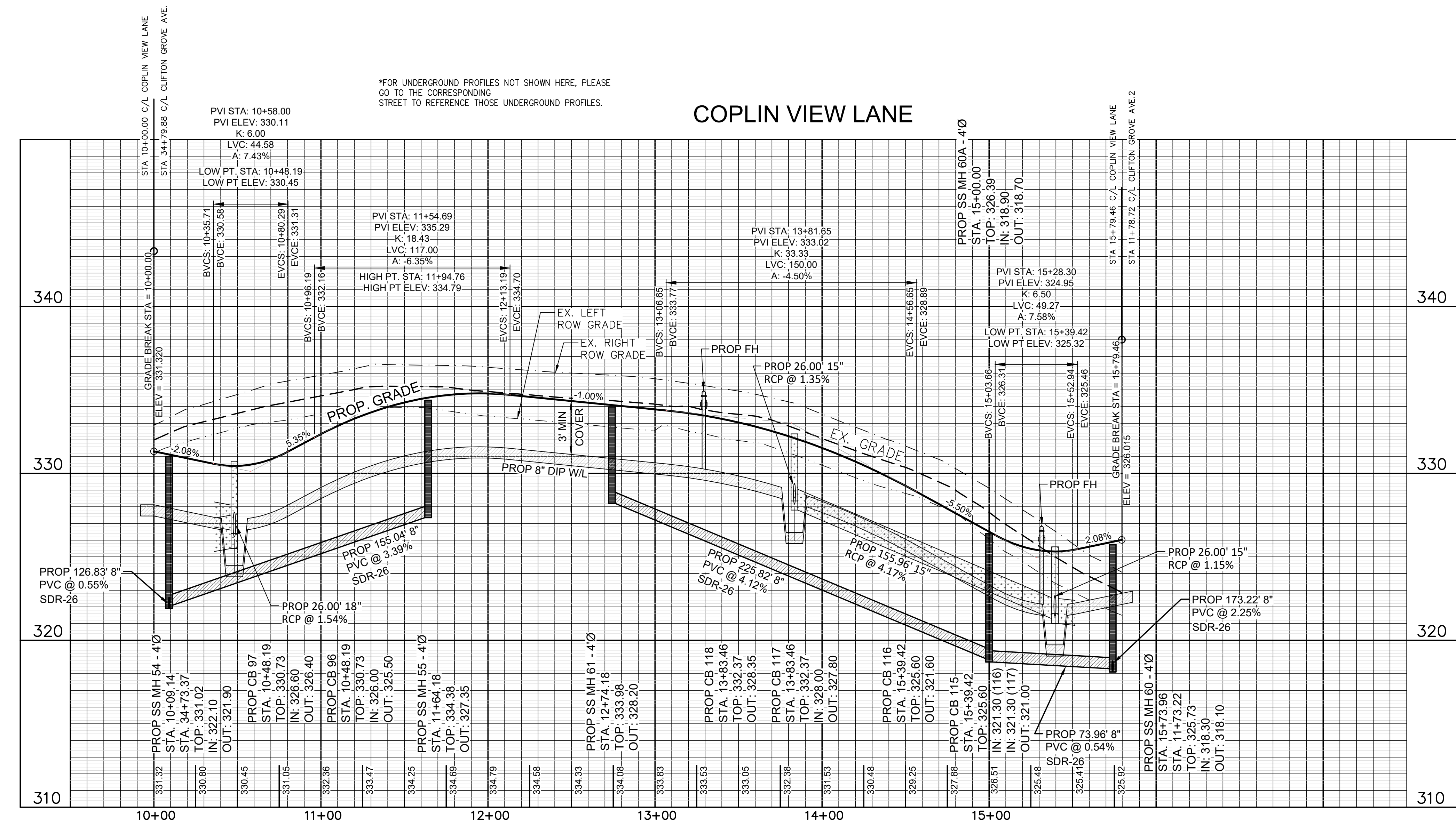


- Revisions**
- 07.13.22-06.12.23 Per City/Town 1st-5th review
 - 10.19.23 Per Wake Co review
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*FOR UNDERGROUND PROFILES NOT SHOWN HERE, PLEASE GO TO THE CORRESPONDING STREET TO REFERENCE THOSE UNDERGROUND PROFILES.

COPLIN VIEW LANE



Owner:
D.R. Horton, Inc.
7208 Falls of Neuse Road
Raleigh NC 27615
919.497.2163

Project
Clifton Grove

COPLIN VIEW LANE

Date
February 15, 2022

Scale
Horiz: 1" = 40'
Vert: 1" = 4'

Sheet

CS-26

PEARCES ROAD TYPICAL WIDENING
STA. 10+70 - 20+65
C/L FOR LANE WIDTHS/STRIPING, PLEASE SEE CS-31

Public
Water Distribution / Extension System
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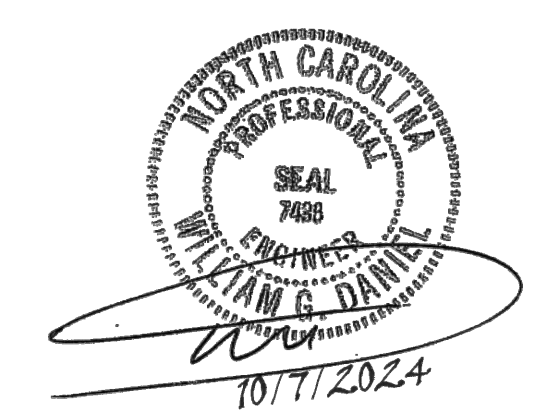
City of Raleigh
Public Utilities Department Permit # **W-3961**
Authorization to Construct _____
Date _____

Public
Sewer Collection / Extension System
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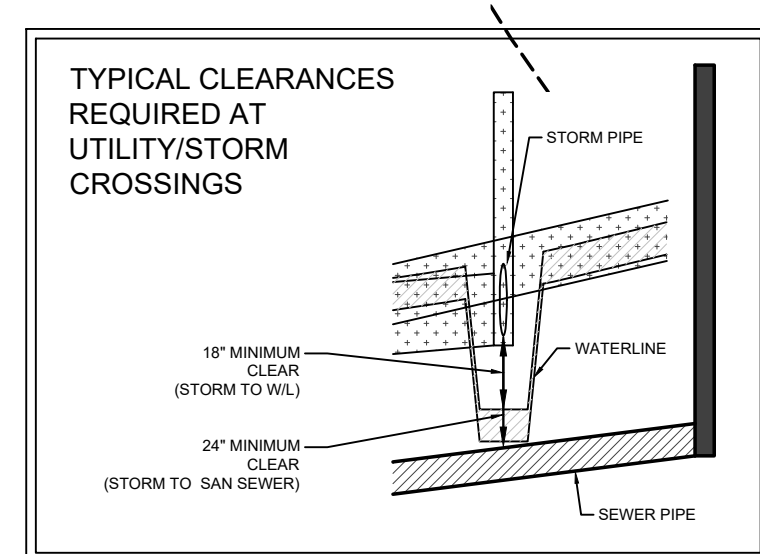
City of Raleigh
Public Utilities Department Permit # **S-5098**
Authorization to Construct _____
Date _____

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Wm. G. Daniel & Assoc.
Engineering Planning
Site Design
1150 SE MAYNARD ROAD
SUITE 260
CARY, NC 27511
Ph: 919-467-9708 Fx: 919-460-7585
C-0329



Revisions
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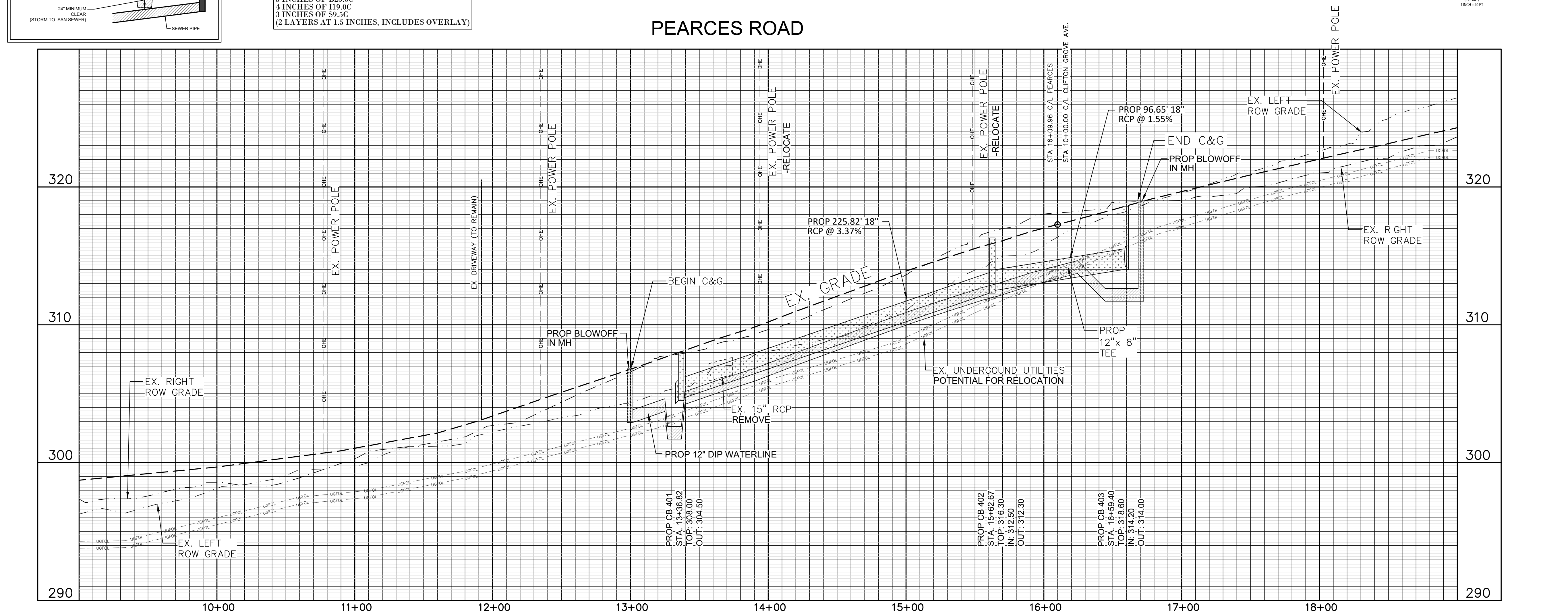


NCDOT ROADWAY PAVEMENT SECTIONS

FOR AREAS GREATER 6' IN WIDTH SHALL USE:
10 INCHES OF C&G
4 INCHES OF 119.0C
3 INCHES OF S9.5C
(2 LAYERS AT 1.5 INCHES, INCLUDES OVERLAY)

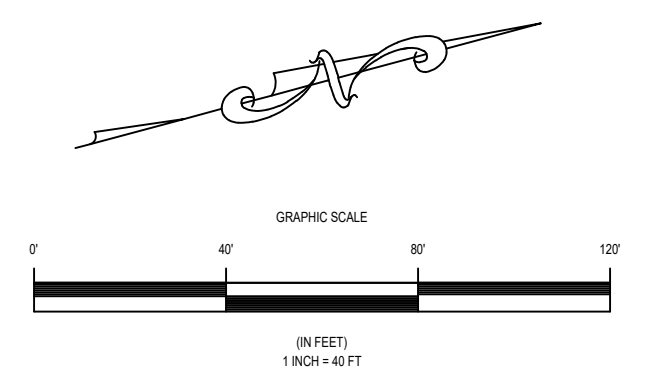
FOR AREAS 6' IN WIDTH OR LESS SHALL USE:
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PEARCES ROAD

C/L PEARCES RD.
Sta. 16+09.96=
C/L CLIFTON GROVE AVE.
Sta. 10+00.00



Owner:
D.R. Horton, Inc.
7208 Falls of Neuse Road
Raleigh NC 27615
919.497.2163

Project
Clifton Grove

Pearces Road

Date
February 15, 2022

Scale
Horiz: 1" = 40'
Vert: 1" = 4'
Sheet

Public Water Distribution / Extension System
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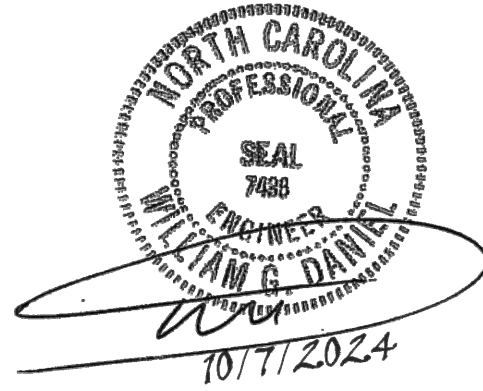
City of Raleigh
 Public Utilities Department Permit # **W-3961**
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 Date _____

Public Sewer Collection / Extension System
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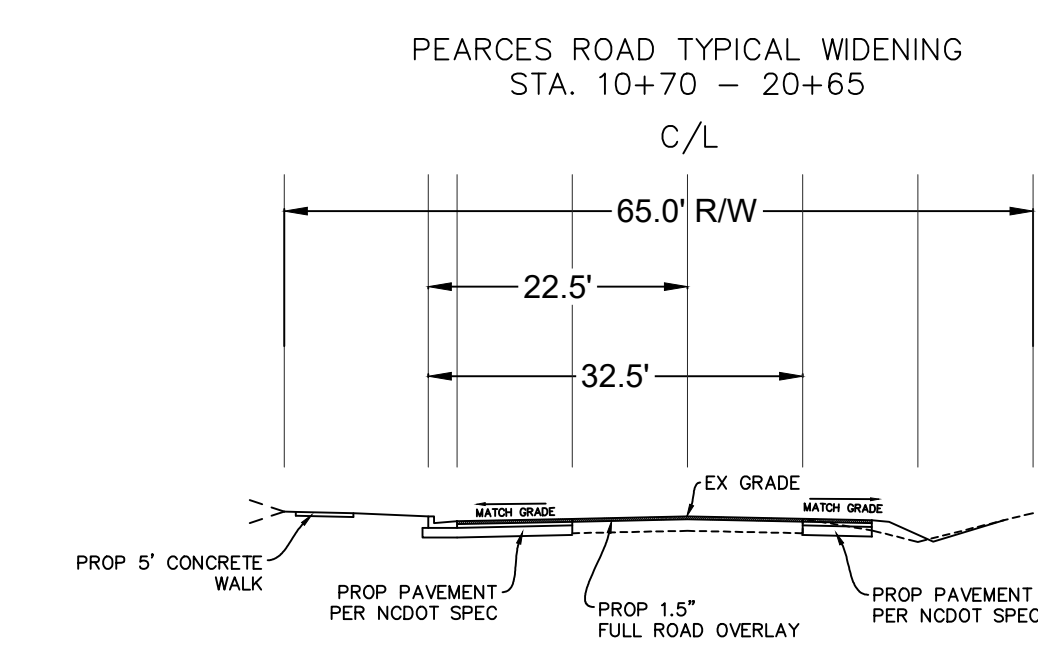
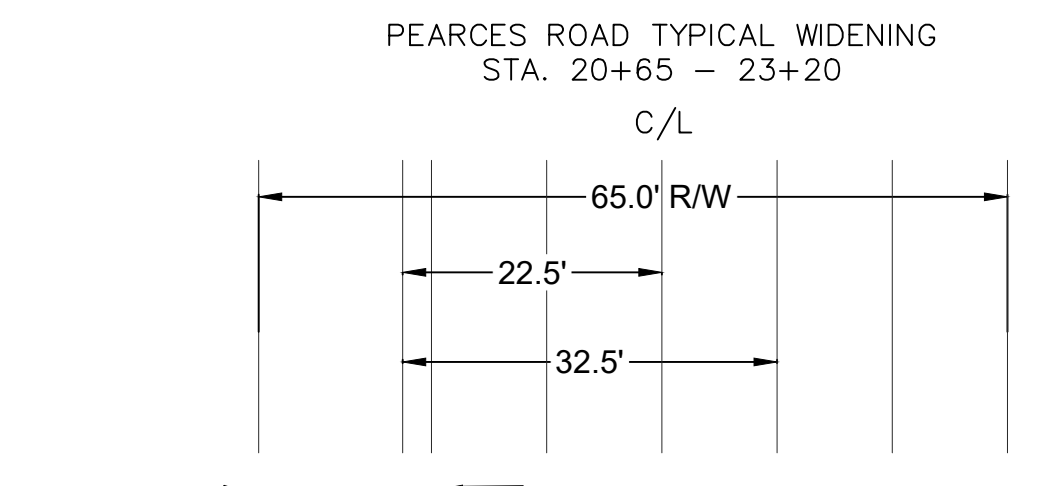
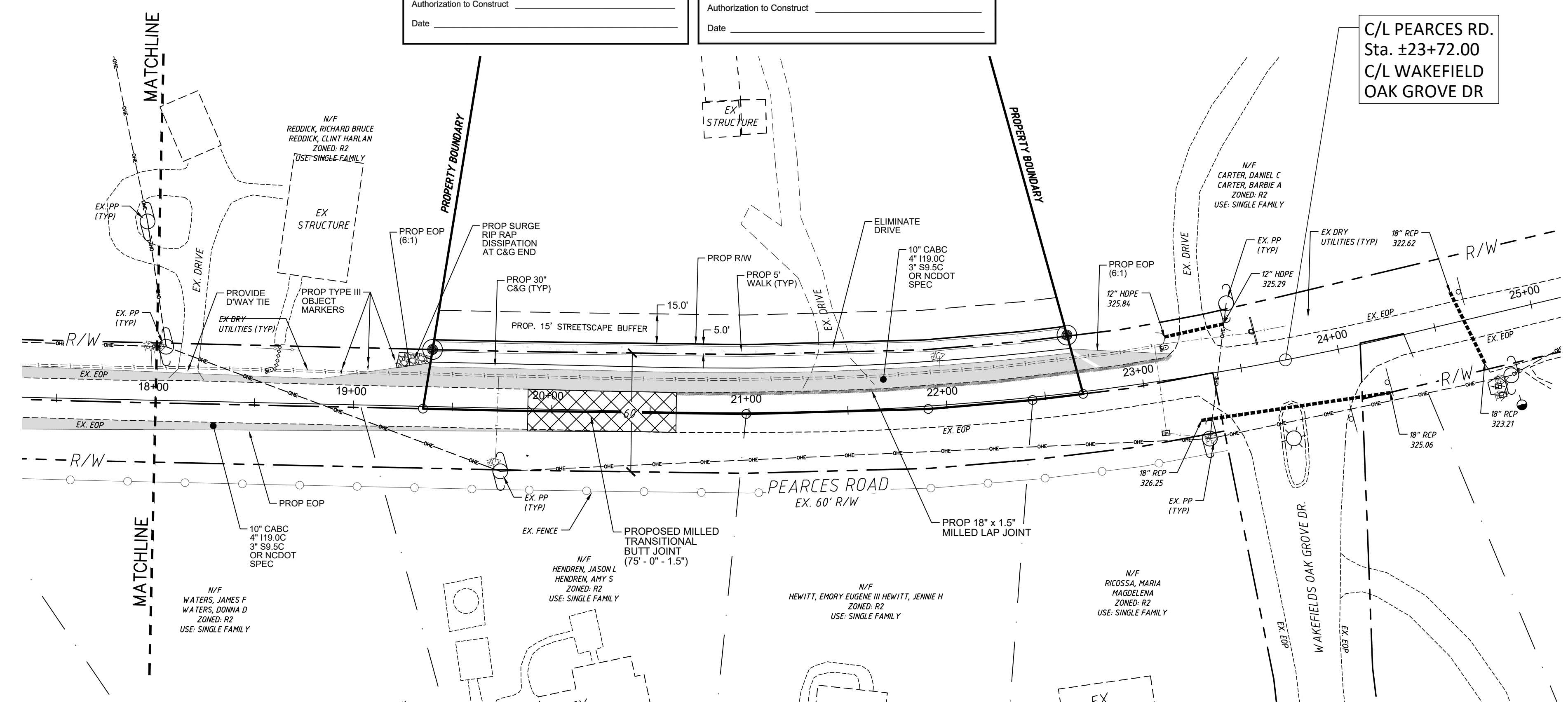
City of Raleigh
 Public Utilities Department Permit # **S-5098**
 Authorization to Construct _____
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Wm. G. Daniel & Assoc.
 Engineering Planning Site Design
 1150 SE MAYNARD ROAD
 SUITE 280
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 Ph:919-467-9708 Fx:919-460-7585
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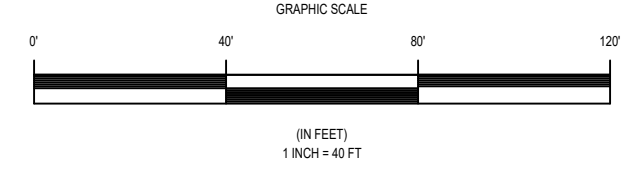


Revisions
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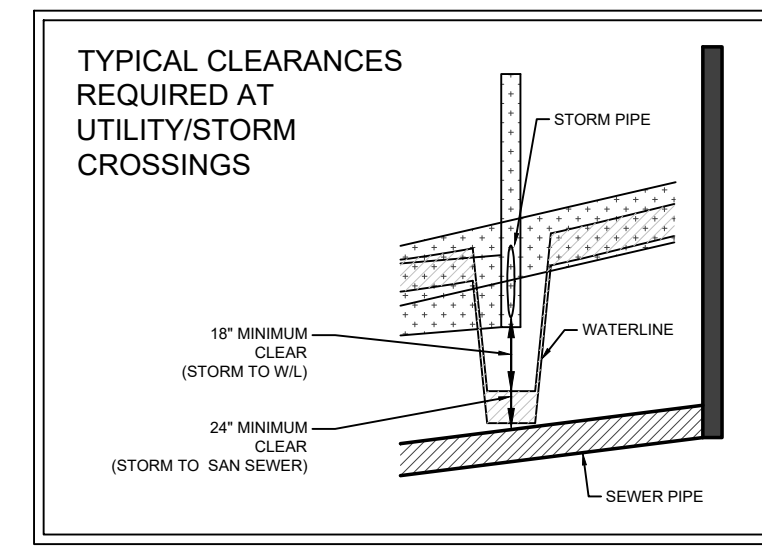
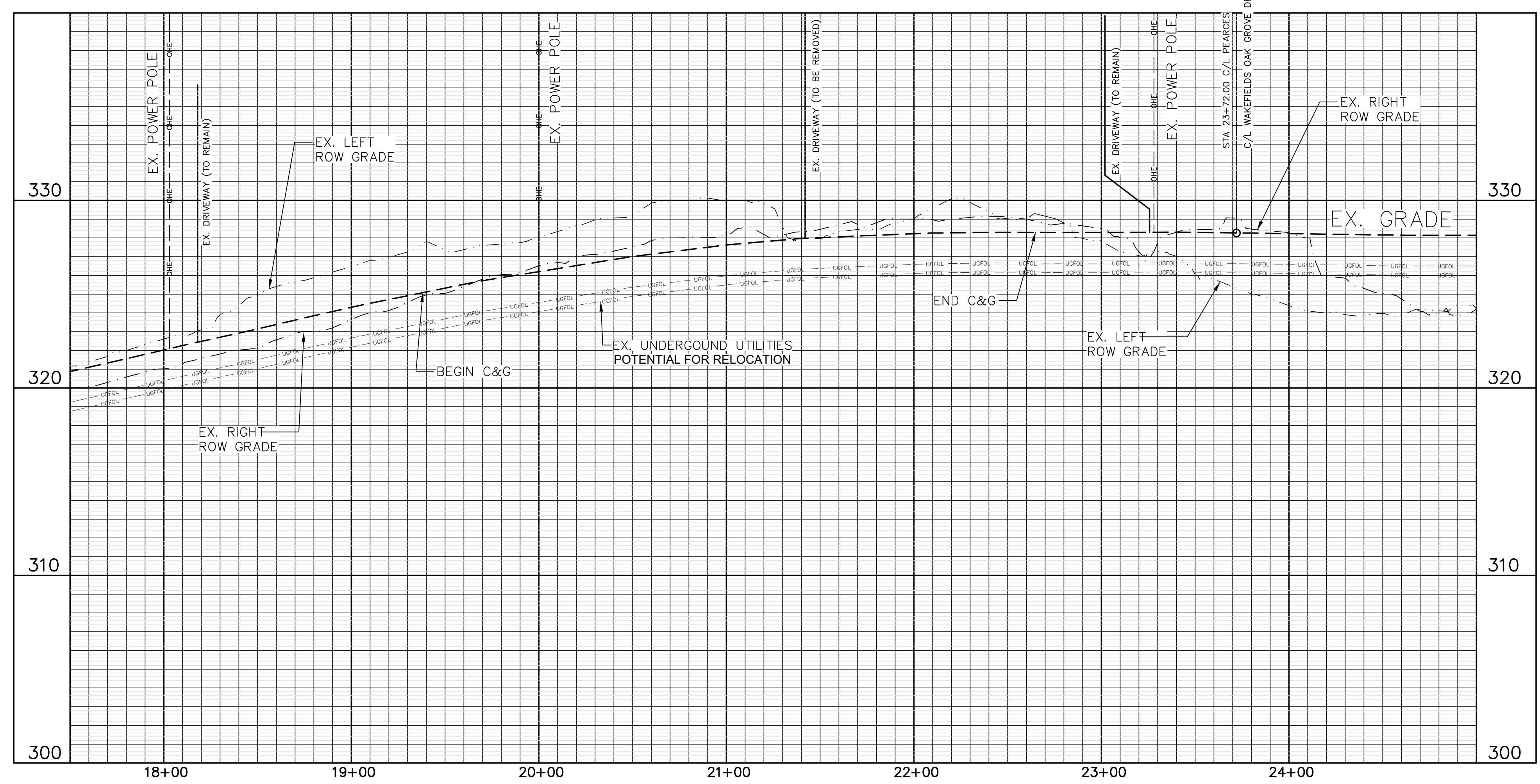


NCDOT ROADWAY PAVEMENT SECTIONS
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 10 INCHES OF C&G
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PEARCES ROAD



Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove
 Pearces Road

Date
 February 15, 2022

Scale
 Horiz: 1" = 40'
 Vert: 1" = 4'

Sheet

CS-28

C/L PIPPIN RD.
Sta. ±11+55.00
C/L LACEWING DR.

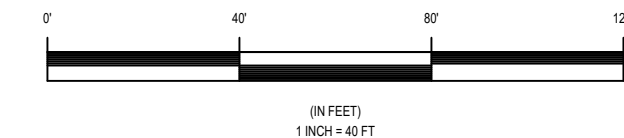
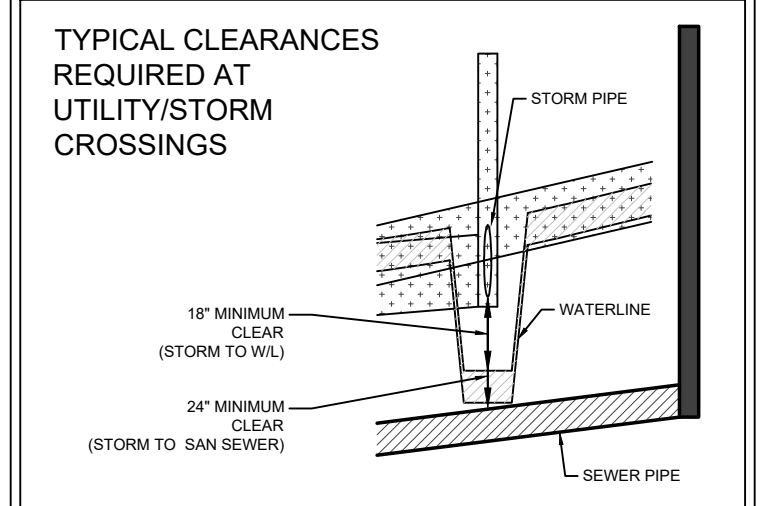
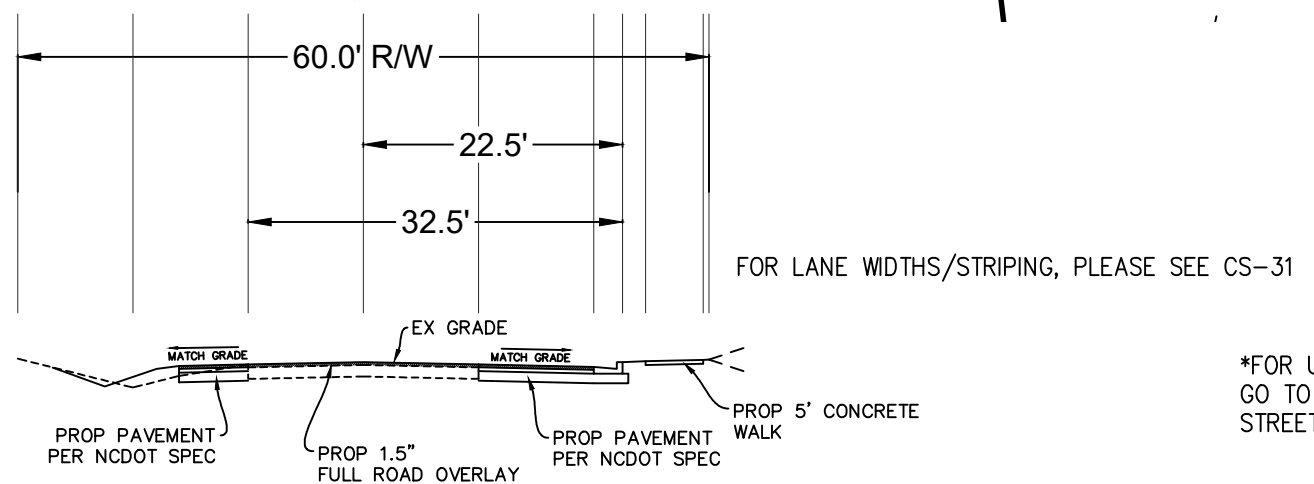
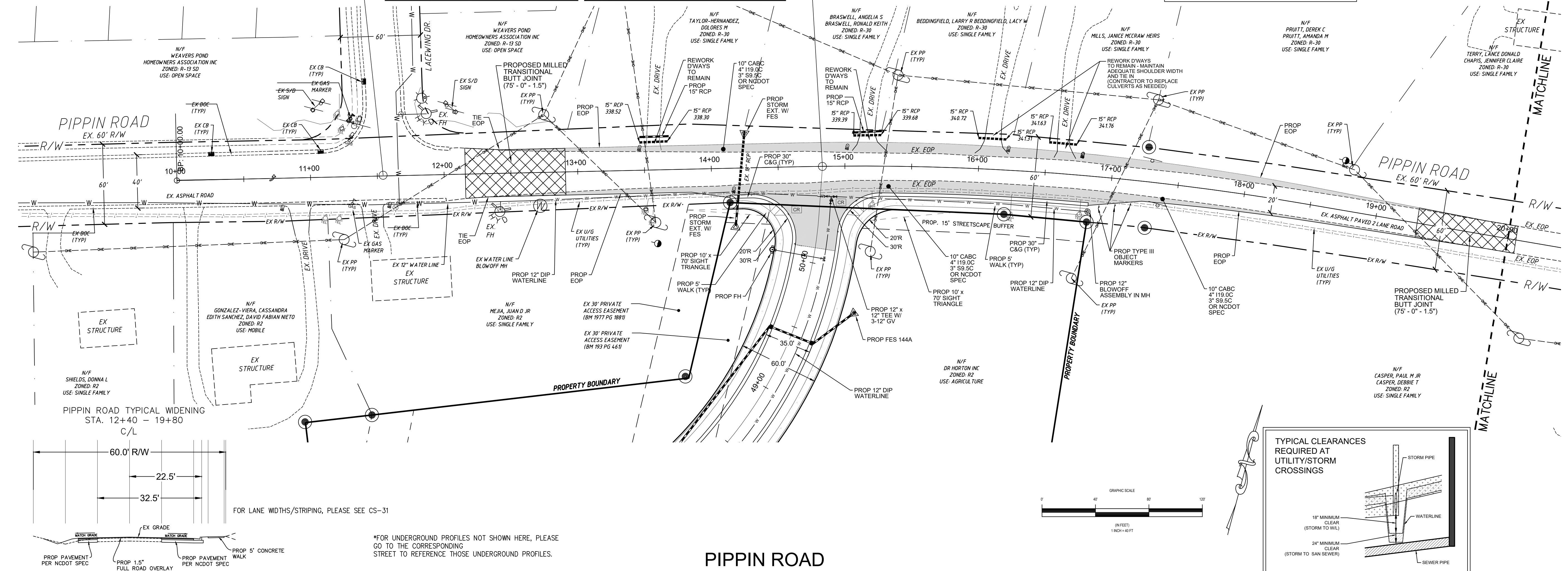
Public
Water Distribution / Extension System
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City of Raleigh
Public Utilities Department Permit # **W-3961**
Authorization to Construct _____
Date _____

Public
Sewer Collection / Extension System
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City of Raleigh
Public Utilities Department Permit # **S-5098**
Authorization to Construct _____
Date _____

C/L PIPPIN RD.
Sta. 15+16.81=
C/L CLIFTON GROVE AVE.
Sta. 50+72.58

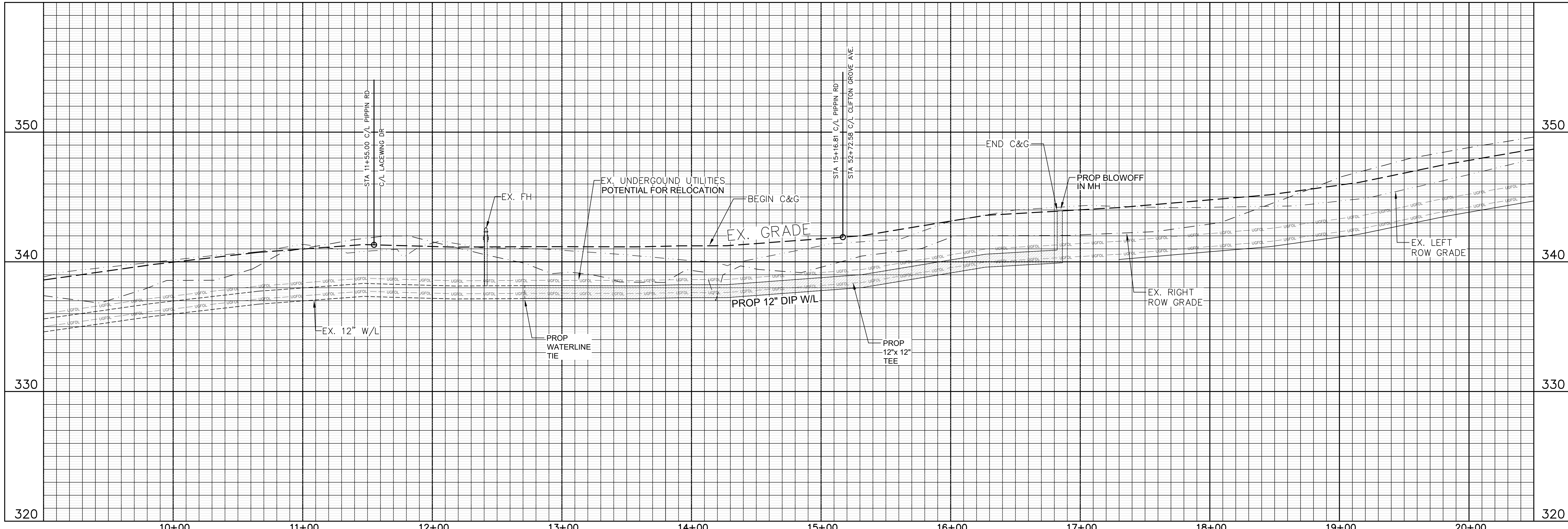
NC DOT ROADWAY PAVEMENT SECTIONS
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4 INCHES OF 119.0C
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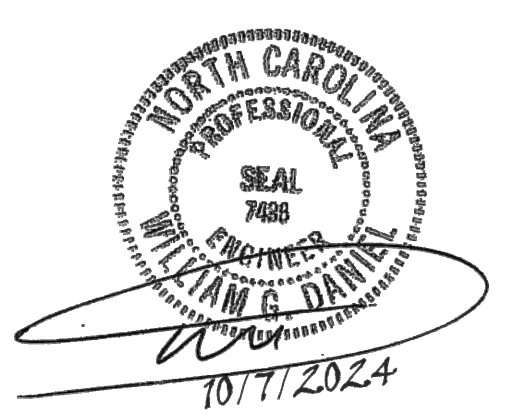


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PIPPIN ROAD



Wm. G. Daniel & Assoc.
Engineering Planning
Site Design
1150 SE MAYNARD ROAD
SUITE 260
CARY, NC 27511
Ph: 919-467-9708 Fx: 919-460-7585
C-0329



- Revisions**
07.13.22-06.12.23 Per City/Town 1st-5th review
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Owner:
D.R. Horton, Inc.
7208 Falls of Neuse Road
Raleigh NC 27615
919.497.2163

Project
Clifton Grove

Pippin Road

Date
February 15, 2022

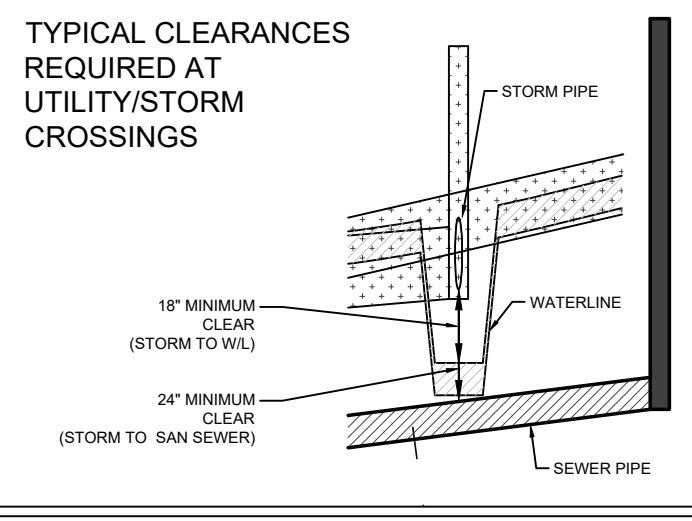
Scale
Horiz: 1" = 40'
Vert: 1" = 4'

Sheet

CS-29

Public
Water Distribution / Extension System
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 City of Raleigh
 Public Utilities Department Permit # **W-3961**
 Authorization to Construct _____
 Date _____

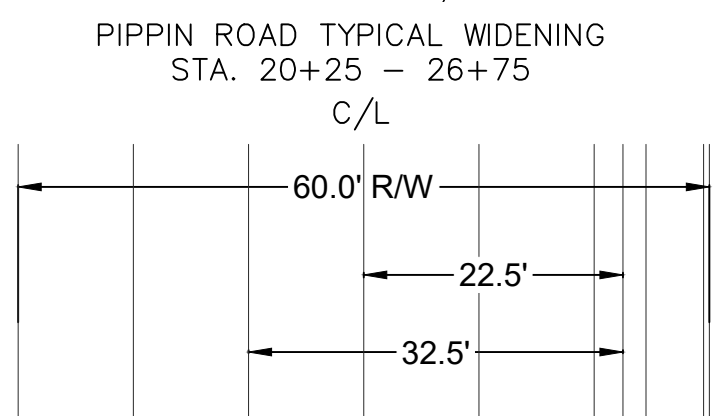
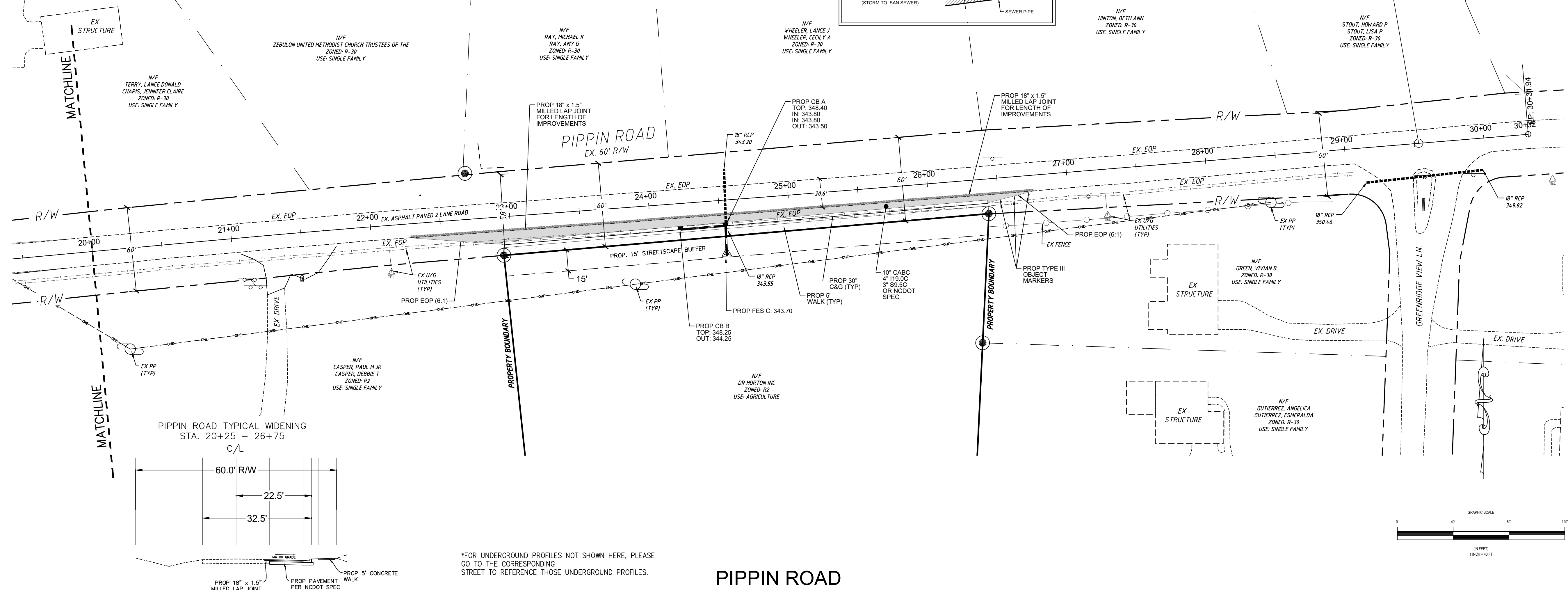
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 City of Raleigh
 Public Utilities Department Permit # **S-5098**
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NC DOT ROADWAY PAVEMENT SECTIONS
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 4 INCHES OF 119.0C
 3 INCHES OF S9.5C
 (2 LAYERS AT 1.5 INCHES, INCLUDES OVERLAY)
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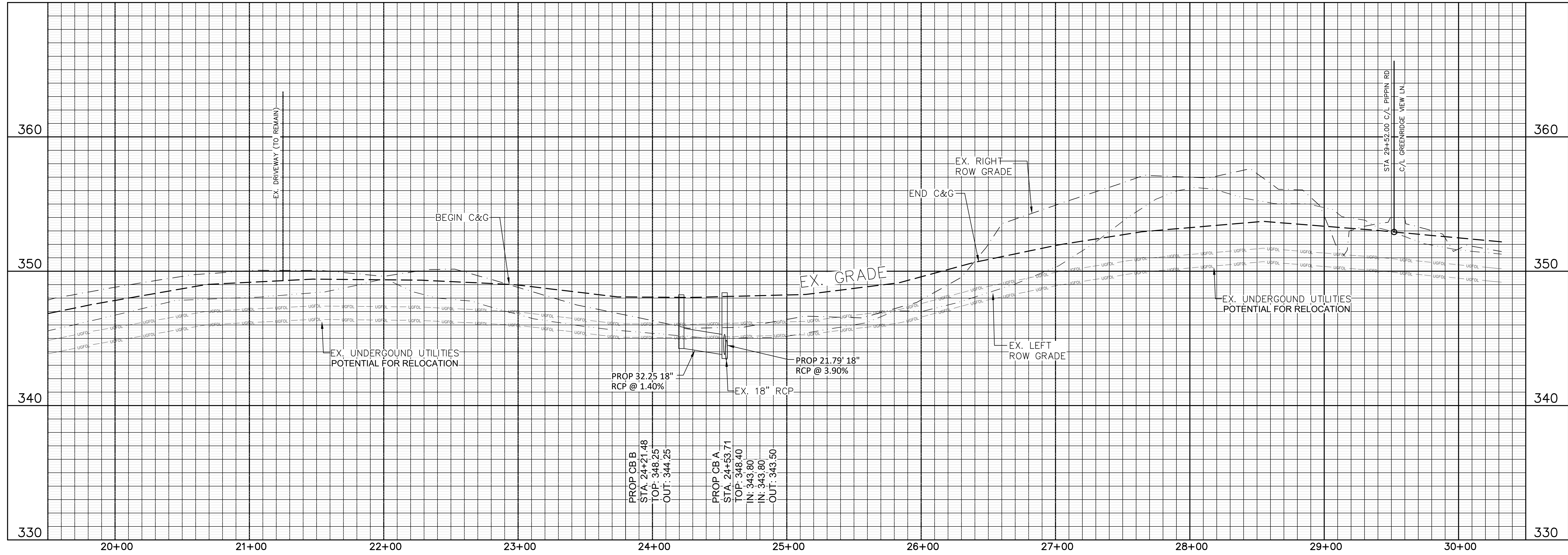
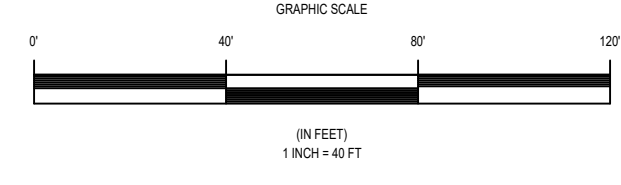
**C/L PIPPIN RD.
 Sta. ±29+52.00
 C/L GREENRIDGE VIEW LANE**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS AND NC DOT IF APPLICABLE.



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PIPPIN ROAD



Wm. G. Daniel & Assoc.
 Engineering Planning
 Site Design
 1150 SE MAYNARD ROAD
 SUITE 260
 CARY, NC 27511
 Ph: 919-467-9708 Fx: 919-460-7585
 C-0329



Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
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Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove

Pippin Road

Date
 February 15, 2022

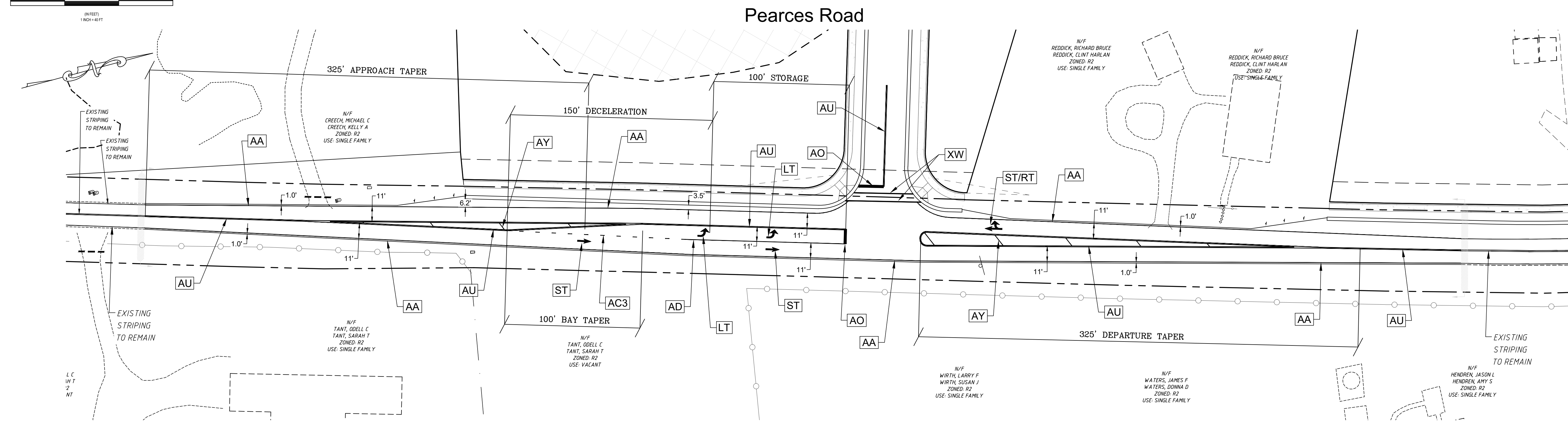
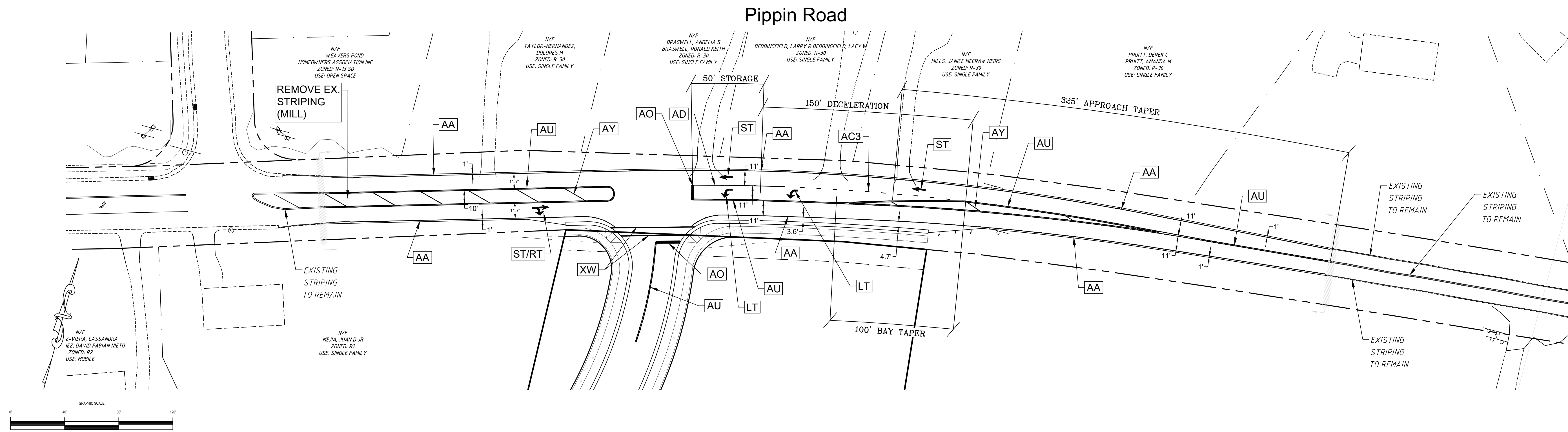
Scale
 Horiz: 1" = 40'
 Vert: 1" = 4'

Sheet

CS-30



- Revisions**
- 07.13.22-06.12.23 Per City/Town 1st-5th review
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 - 08.01.24 Per Wake Co review
 - 09.05.24 Per Wake Co review
 - 10.07.24 Per Wake Co review



PAVEMENT MARKING SCHEDULE

ITEM	DESCRIPTION
AA	THERMOPLASTIC (4" WHITE, 90 MILS) EDGELINE
AC3	THERMOPLASTIC (4" WHITE, 120 MILS) 4"x3' W/ 9' SPACING MINI-SKIP (LANE LINES AND LINE EXTENSIONS THROUGH TAPERS)
AD	THERMOPLASTIC (4" WHITE, 120 MILS) SOLID LANE LINE
AO	THERMOPLASTIC (24" WHITE, 120 MILS) STOP BAR
AU	THERMOPLASTIC (4" YELLOW, 120 MILS) DOUBLE CENTER LINE
AY	THERMOPLASTIC (12" YELLOW, 90 MILS) DIAGONAL (8" = < 45 MPH) (12" = ≥ 45 MPH)
LT	THERMOPLASTIC (WHITE, 120 MILS) DIRECTIONAL ARROW - LEFT
XW	THERMOPLASTIC (WHITE, 120 MILS) 8" CROSSWALK LINES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS AND NCDOT IF APPLICABLE.

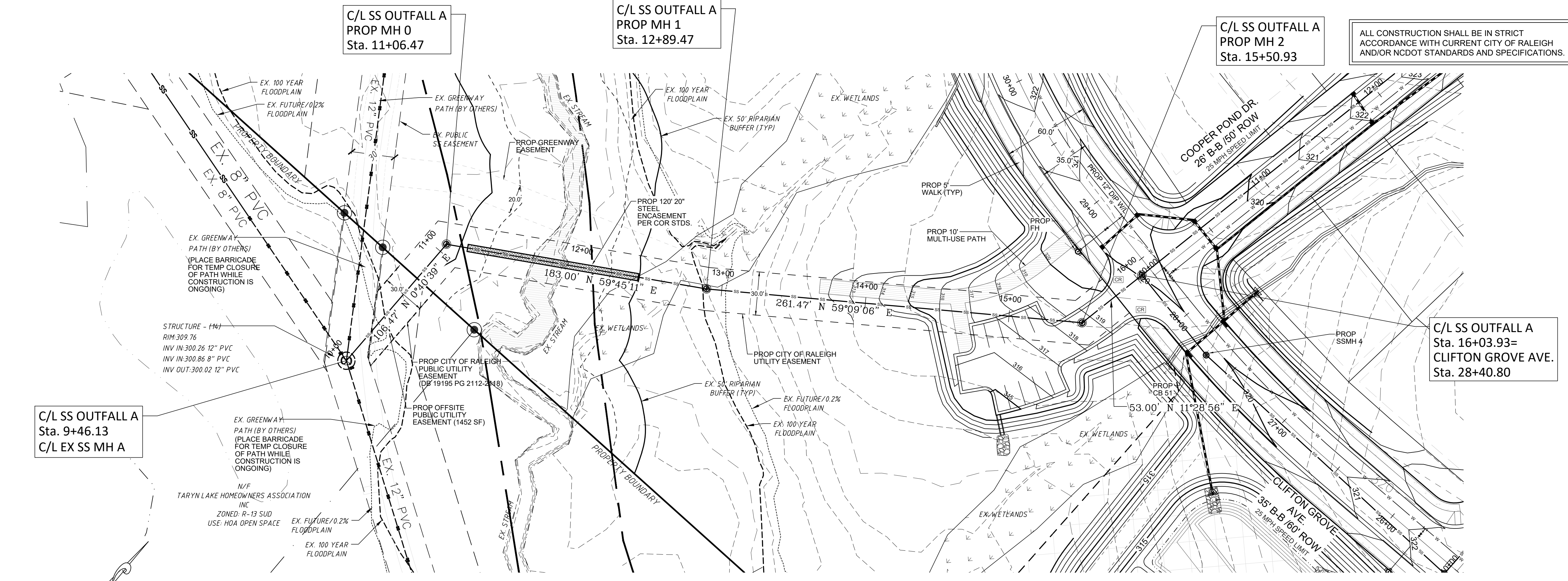
Project
 Clifton Grove

Striping Plan
 -Pearces Rd & Pippin Rd

Date
 February 15, 2022

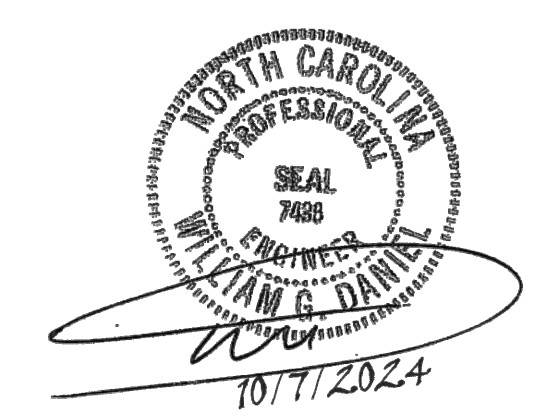
Scale
 1" = 40'

Sheet

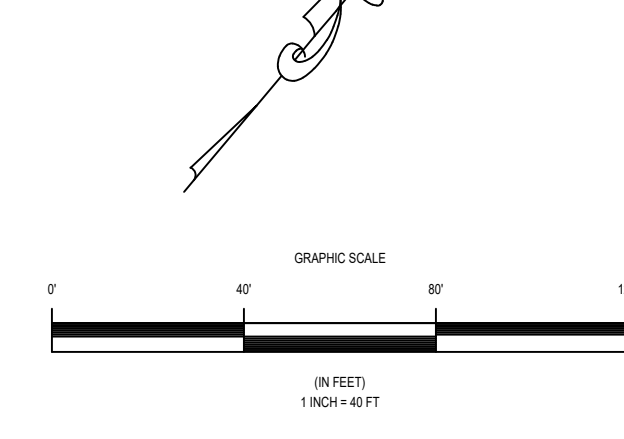


ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CURRENT CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

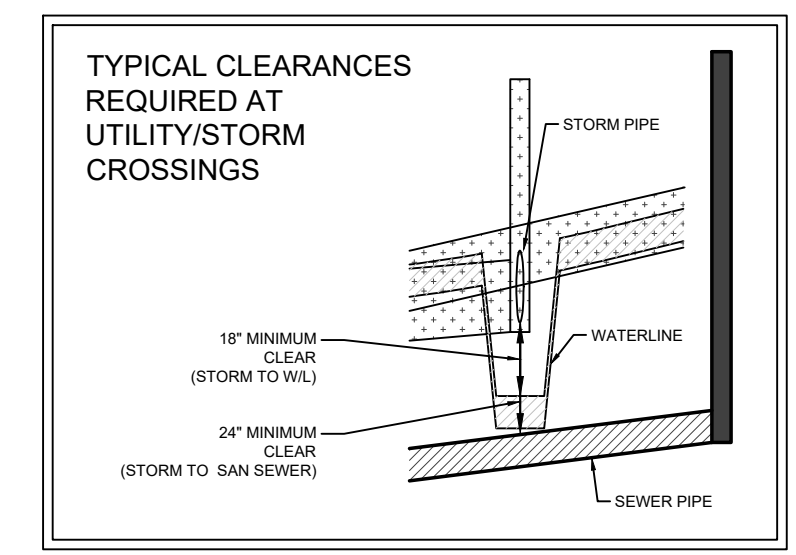
Wm. G. Daniel & Assoc.
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 Site Design
 1150 SE MAYNARD ROAD
 SUITE 260
 CARY, NC 27511
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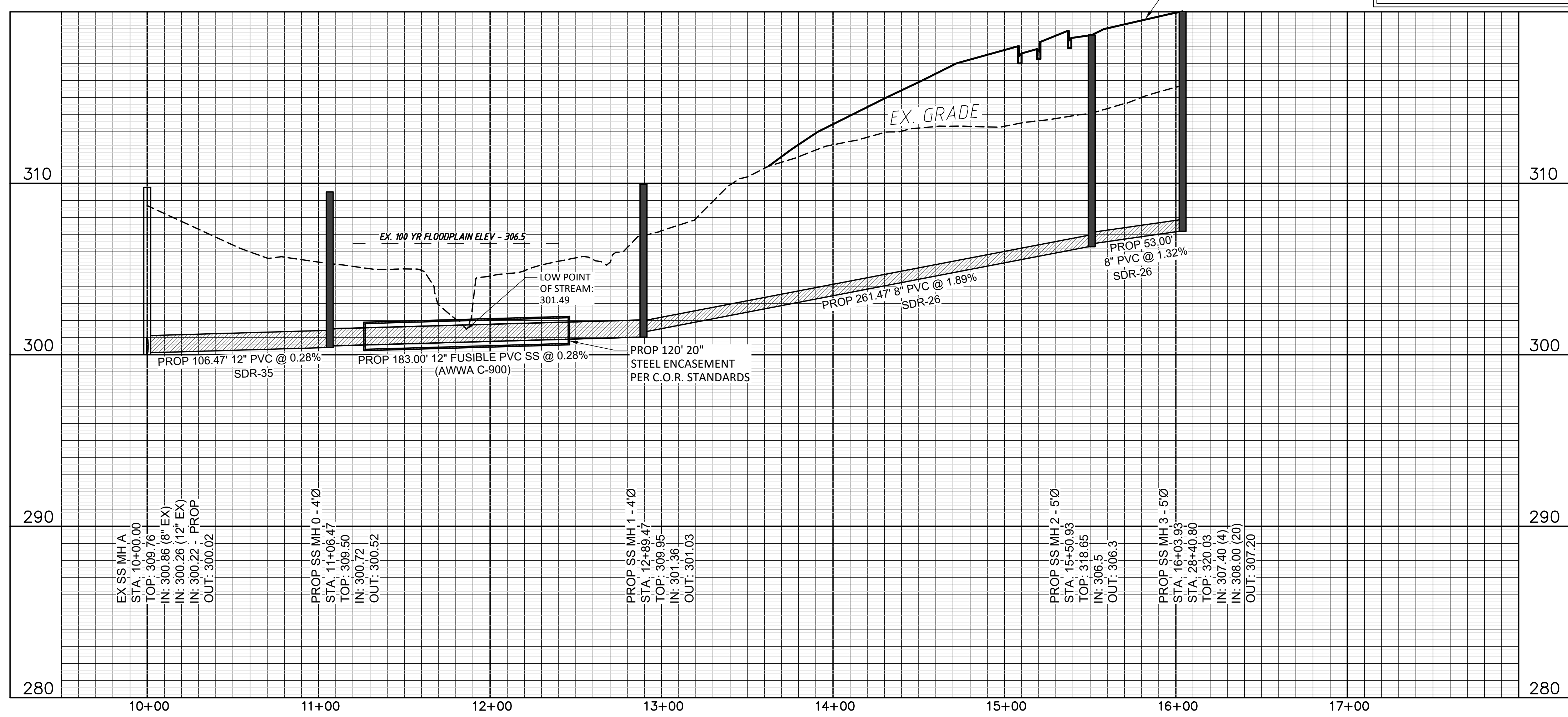
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<p align="center">Public Water Distribution / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # W-3961</p> <p>Authorization to Construct _____ Date _____</p>	<p align="center">Public Sewer Collection / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # S-5098</p> <p>Authorization to Construct _____ Date _____</p>
--	--



Sanitary Sewer Outfall A



Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove
 Sanitary Sewer Outfall A

Date
 February 15, 2022
 Scale
 Horiz: 1" = 40'
 Vert: 1" = 4'
 Sheet

Public
Water Distribution / Extension System
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 City of Raleigh
 Public Utilities Department Permit # **W-3961**
 Authorization to Construct _____
 Date _____

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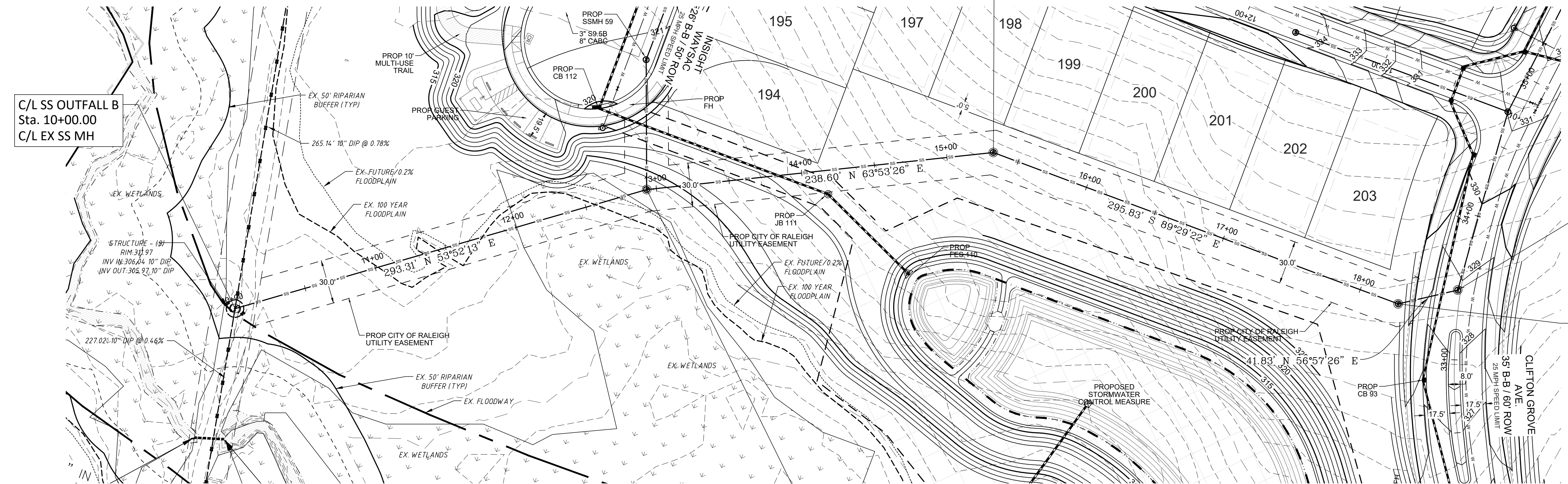
C/L SS OUTFALL B
PROP MH 51
Sta. 15+31.91

ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CURRENT CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

Wm. G. Daniel & Assoc.
 Engineering Planning
 Site Design
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 SUITE 260
 CARY, NC 27511
 Ph: 919-467-9708 Fx: 919-460-7585
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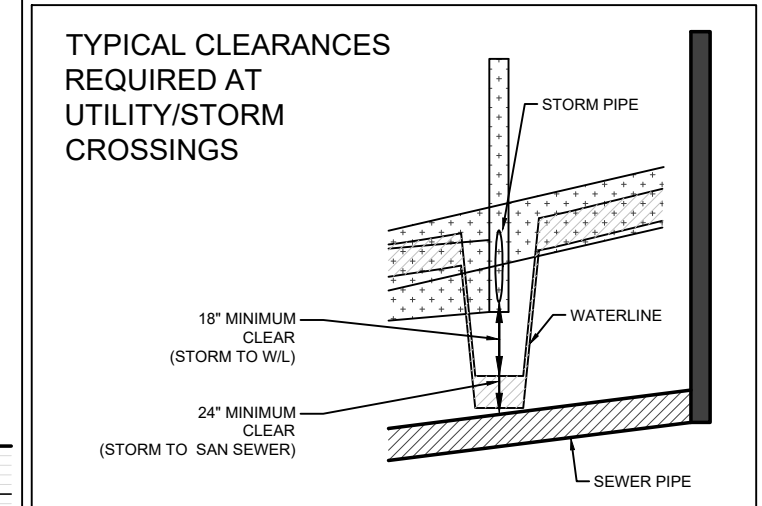
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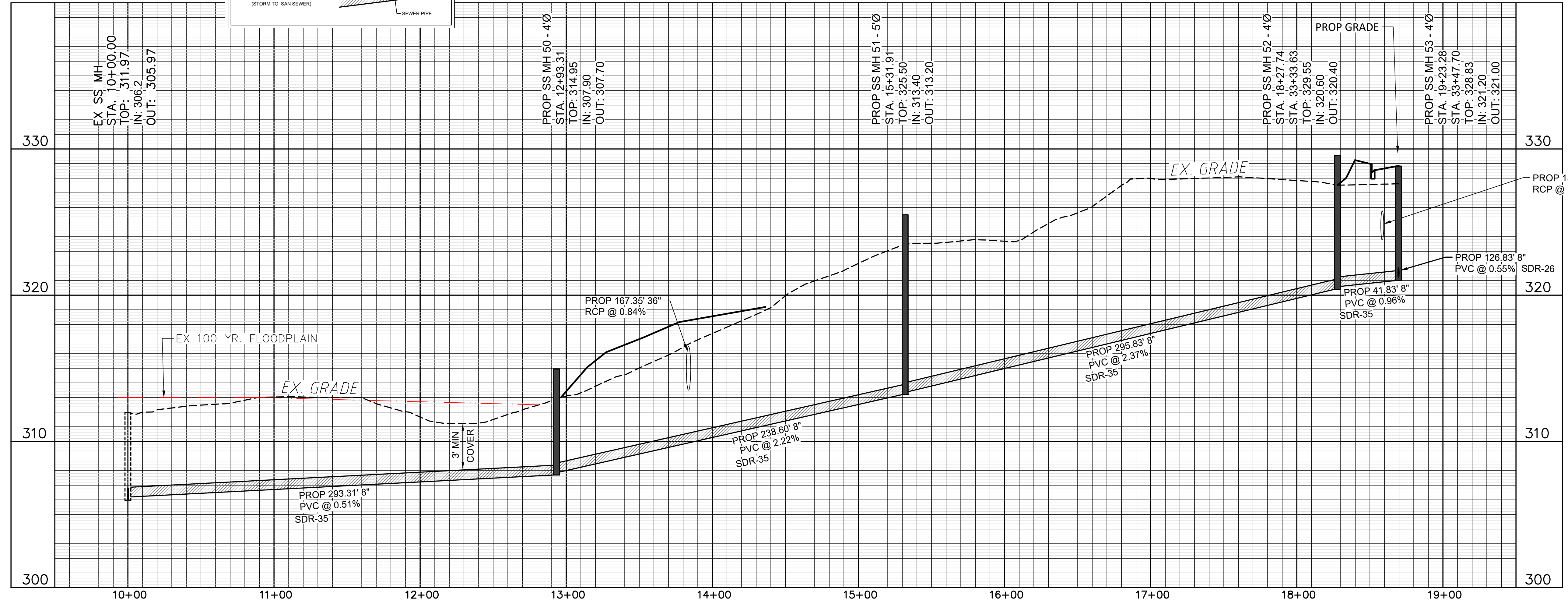
C/L SS OUTFALL B
Sta. 18+69.57=
CLIFTON GROVE AVE.
Sta. 33+47.70

C/L SS OUTFALL B
PROP MH 52
Sta. 18+27.74

C/L SS OUTFALL B
PROP MH 50
Sta. 12+93.31



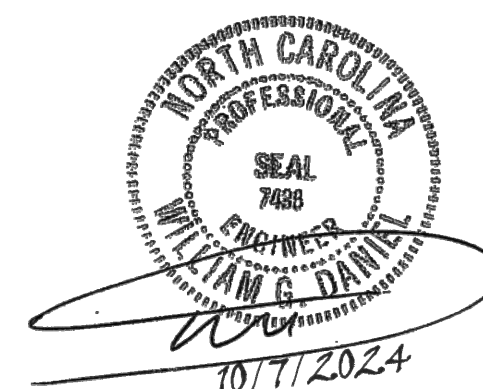
Sanitary Sewer Outfall B



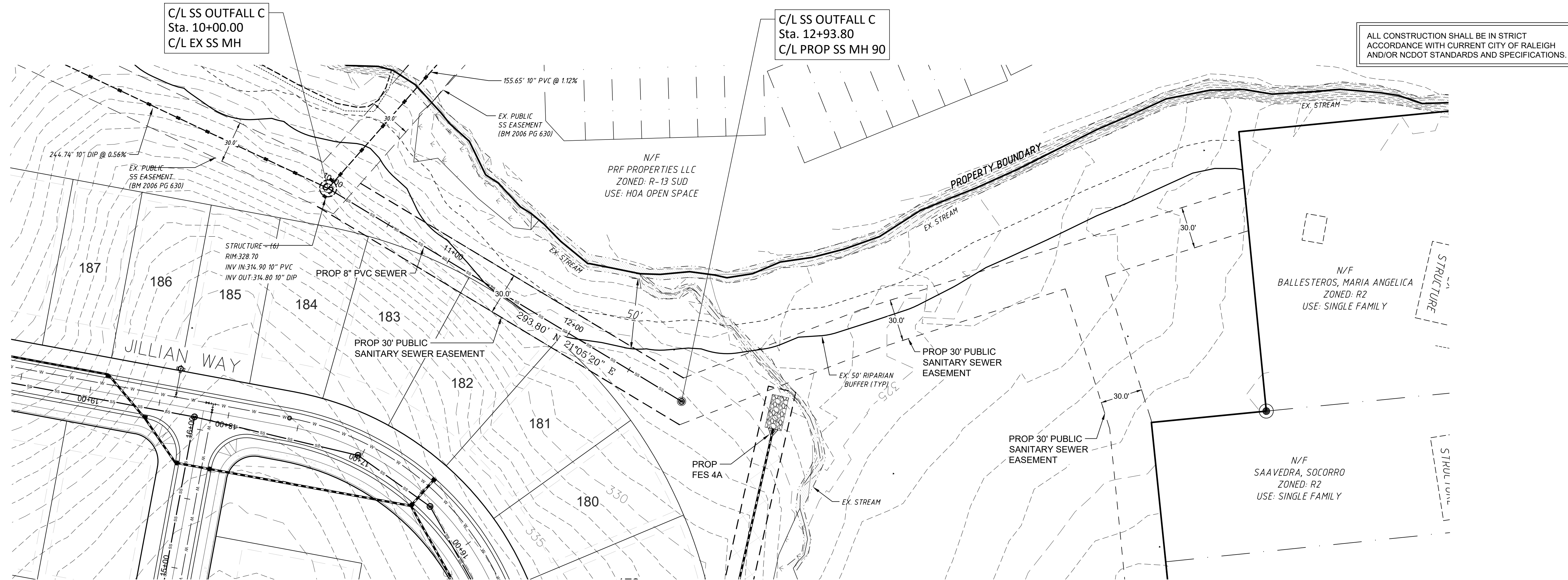
Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove
 Sanitary Sewer Outfall B

Date
 February 15, 2022
 Scale
 Horiz: 1" = 40'
 Vert: 1" = 4'
 Sheet



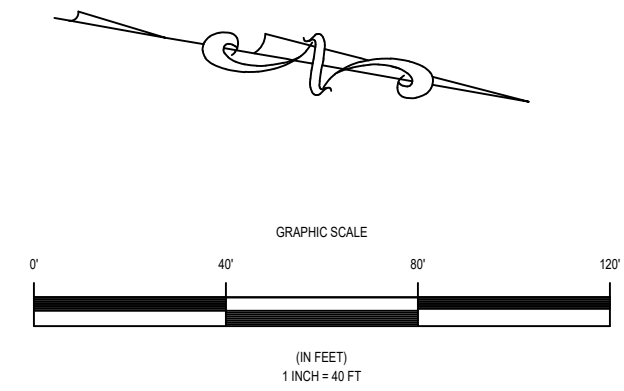
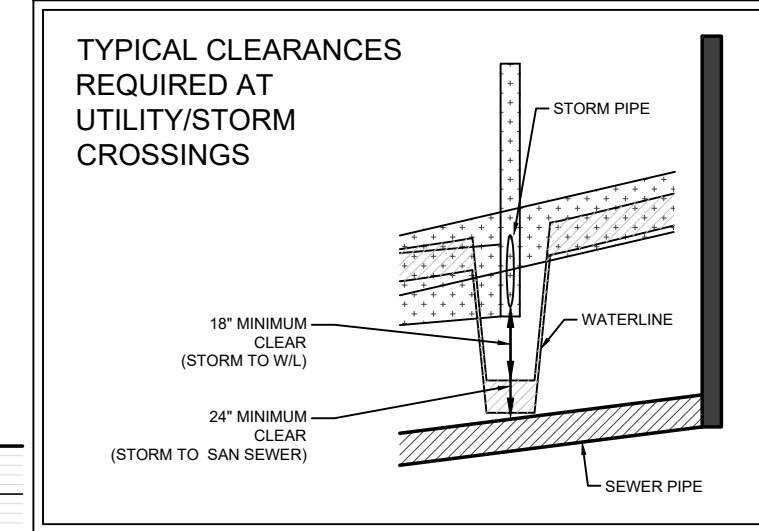
- Revisions**
- 07.13.22-06.12.23 Per City/Town 1st-5th review
 - 10.19.23 Per Wake Co review
 - 01.31.24 Per Wake Co review
 - 08.01.24 Per Wake Co review
 - 09.05.24 Per Wake Co review
 - 10.07.24 Per Wake Co review



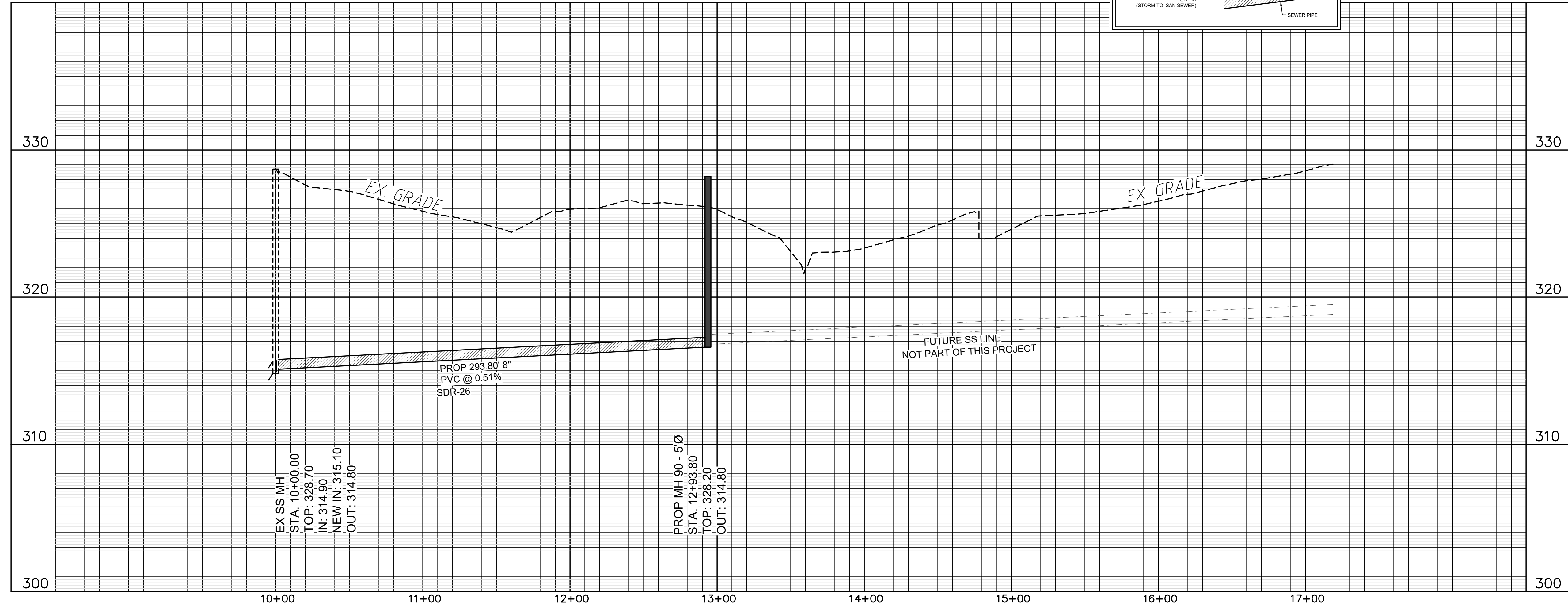
ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CURRENT CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

Public Water Distribution / Extension System
 The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
 City of Raleigh Public Utilities Department Permit # **W-3961**
 Authorization to Construct _____
 Date _____

Public Sewer Collection / Extension System
 The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
 City of Raleigh Public Utilities Department Permit # **S-5098**
 Authorization to Construct _____
 Date _____



Sanitary Sewer Outfall C



Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

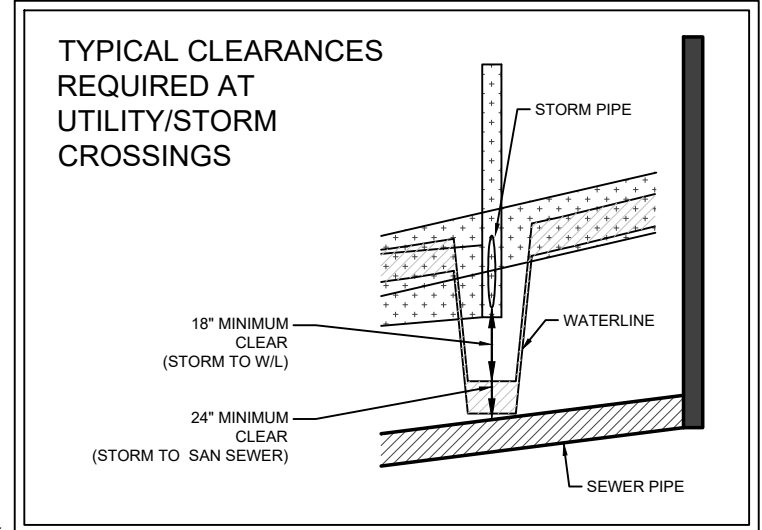
Project
 Clifton Grove
 Sanitary Sewer Outfall C

Date
 February 15, 2022
 Scale
 Horiz: 1" = 40'
 Vert: 1" = 4'
 Sheet

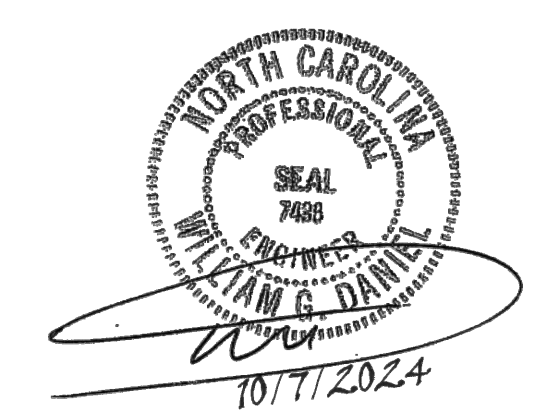
C/L SS OUTFALL D
Sta. 10+00.00

C/L SS OUTFALL D
PROP MH 28A
Sta. 12+01.15

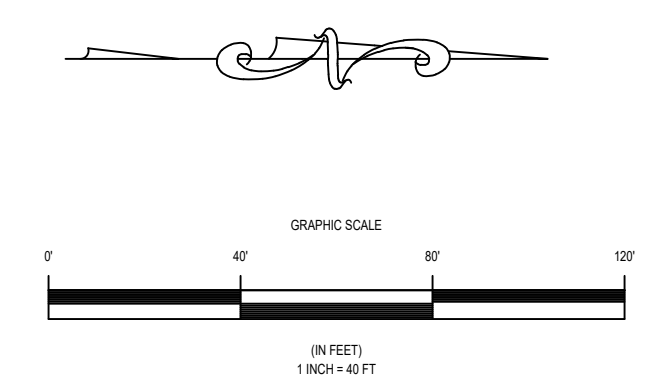
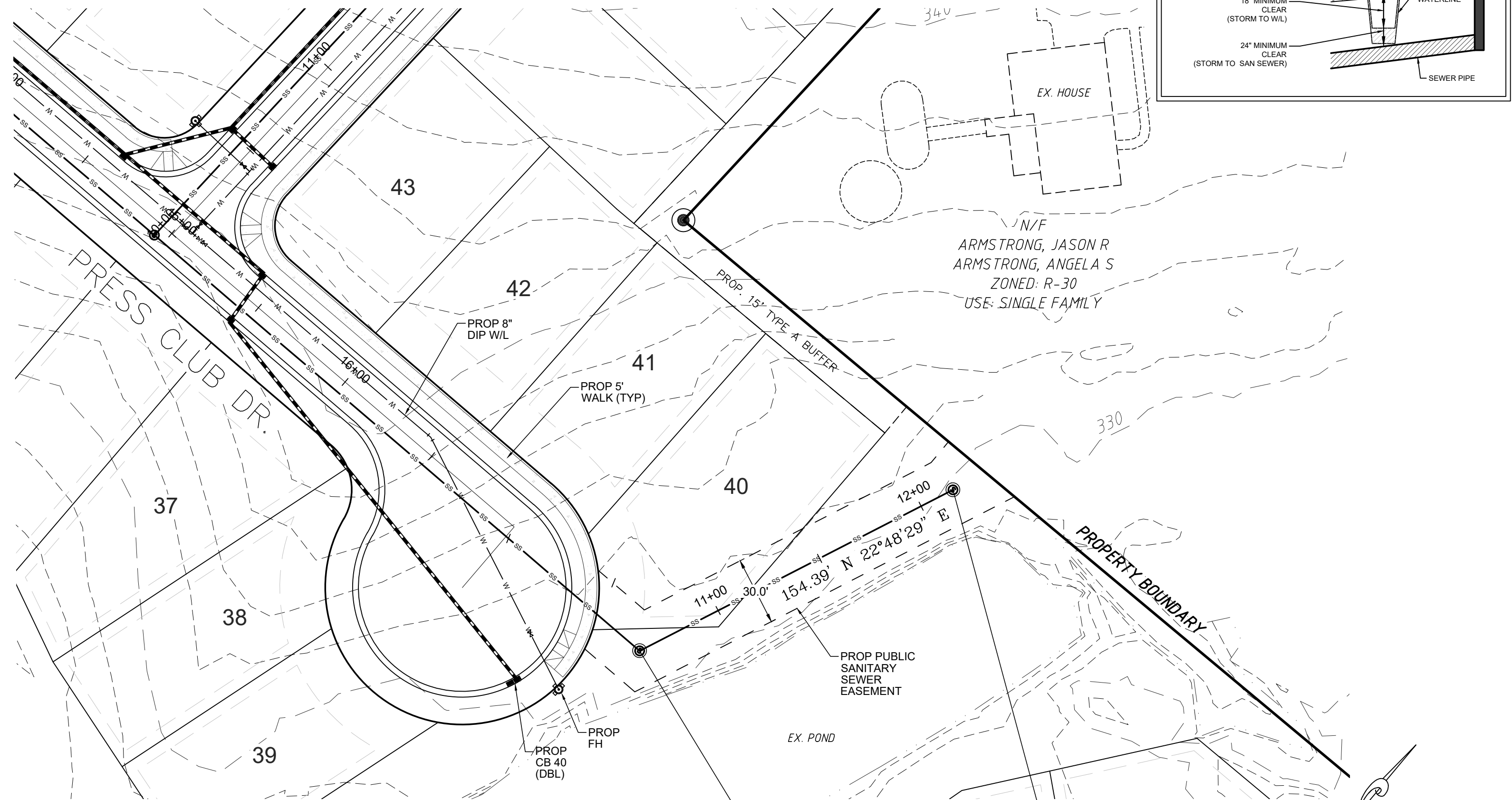
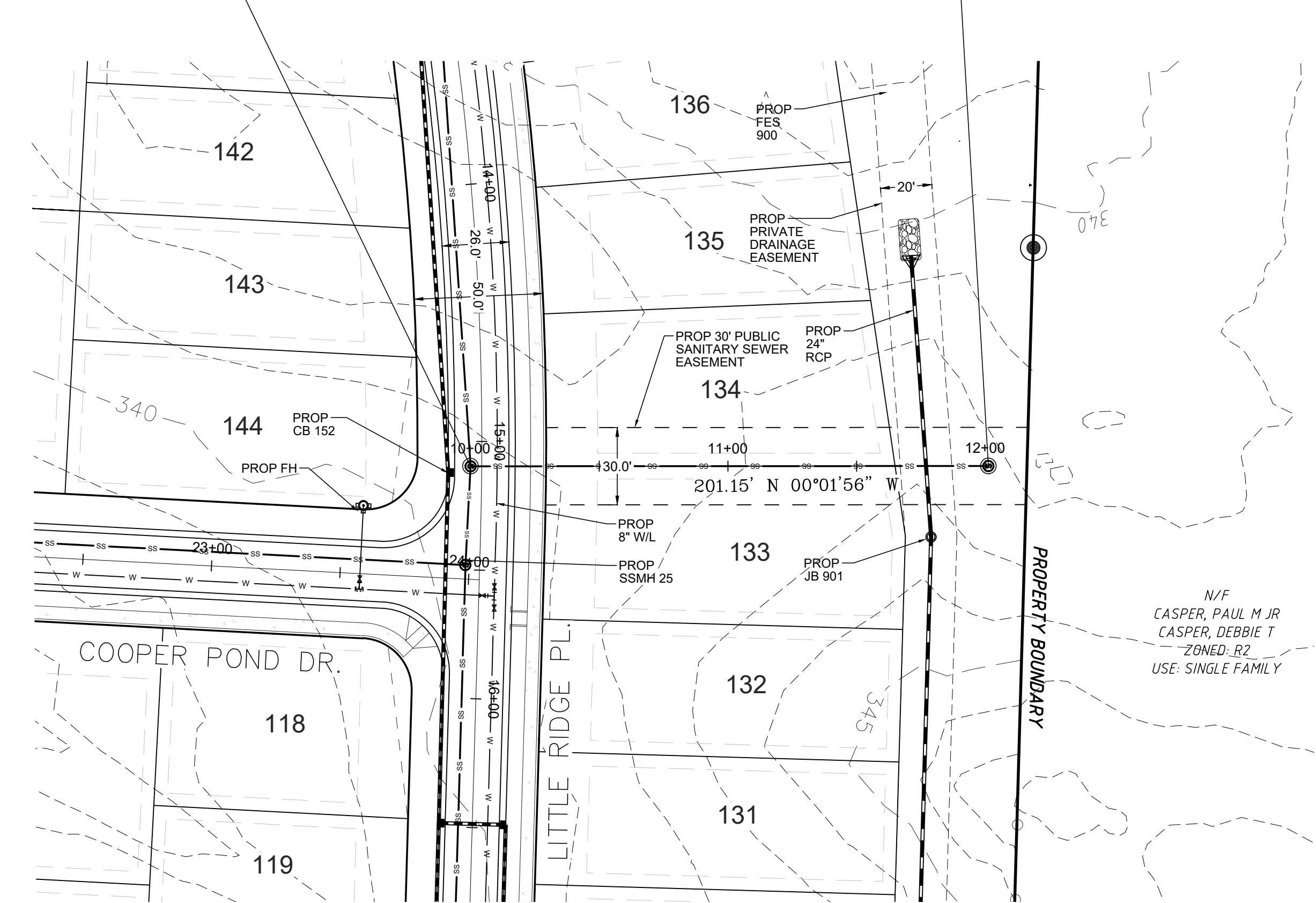
ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CURRENT CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS.



Wm. G. Daniel & Assoc.
Engineering Planning
Site Design
1150 SE MAYNARD ROAD
SUITE 280
CARY, NC 27511
Ph: 919-467-9708 Fx: 919-460-7585
C-0329



- Revisions
- 07.13.22-06.12.23 Per City/Town 1st-5th review
 - 10.19.23 Per Wake Co review
 - 01.31.24 Per Wake Co review
 - 08.01.24 Per Wake Co review
 - 09.05.24 Per Wake Co review
 - 10.07.24 Per Wake Co review

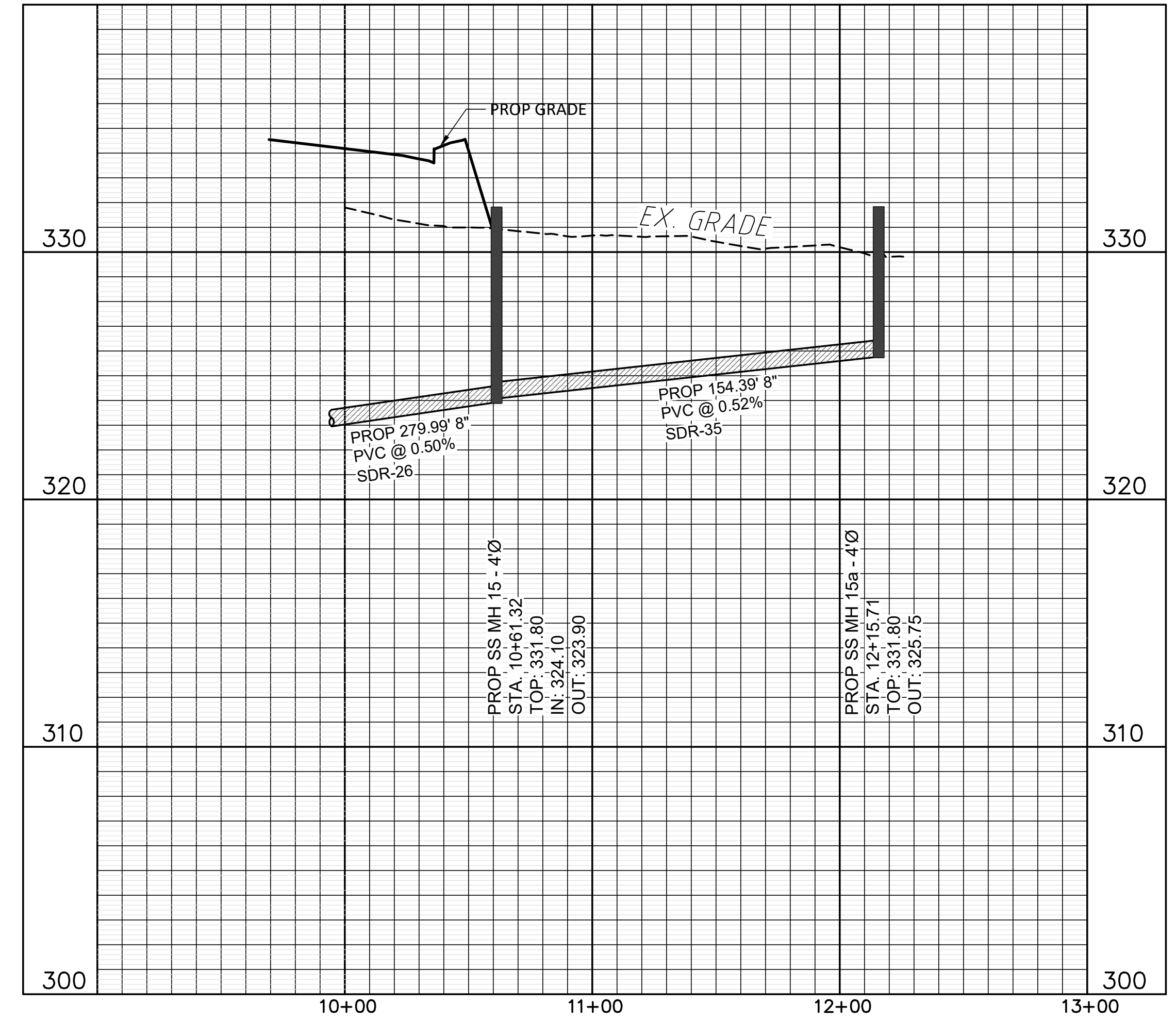
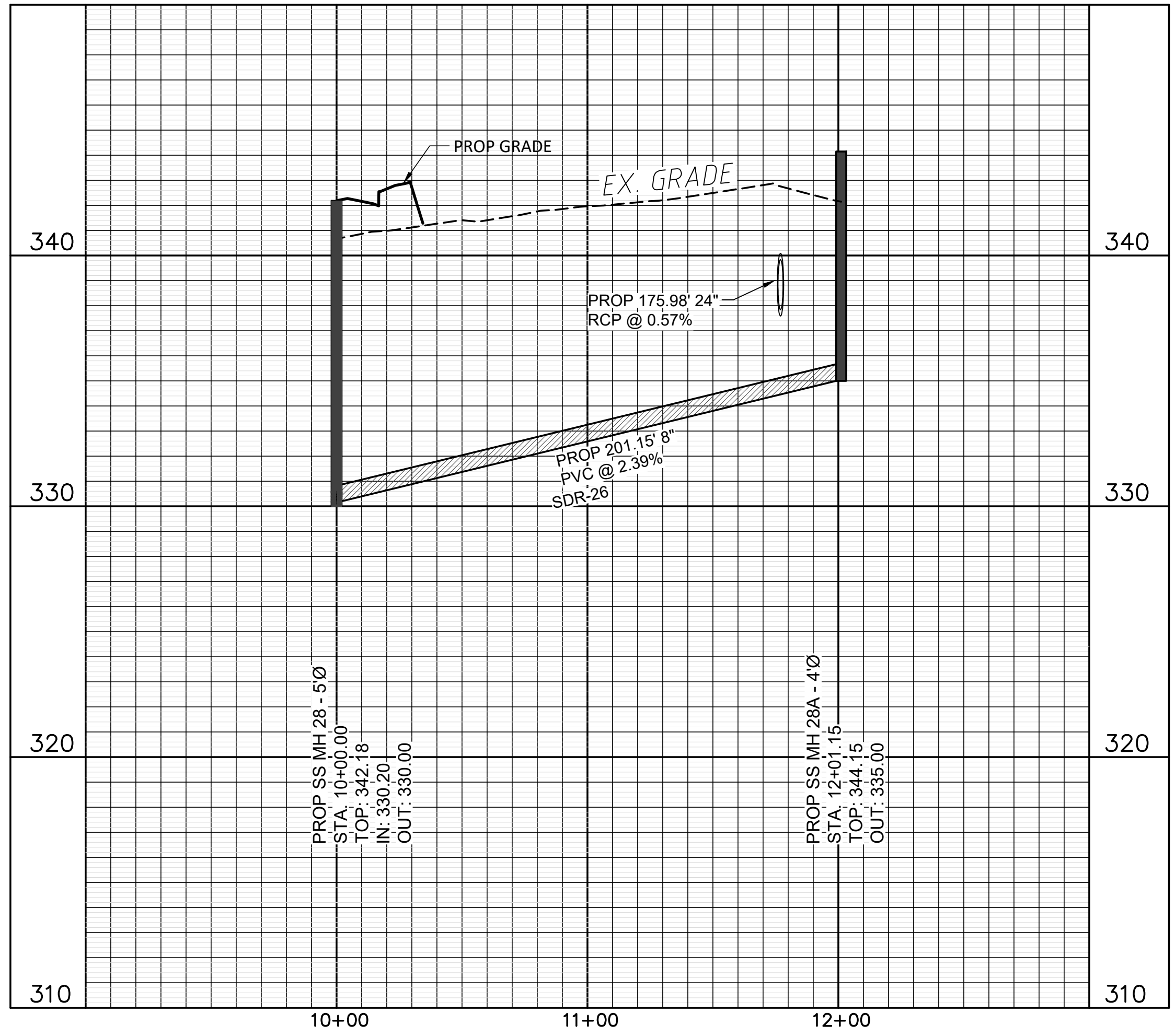
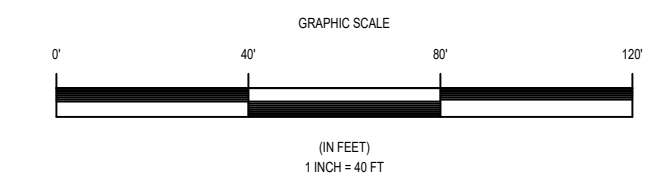


Sanitary Sewer Outfall D

Public Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **W-3961**
Authorization to Construct _____
Date _____

Public Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **S-5098**
Authorization to Construct _____
Date _____

Sanitary Sewer Outfall E



Owner:
D.R. Horton, Inc.
7208 Falls of Neuse Road
Raleigh NC 27615
919.497.2163

Project
Clifton Grove

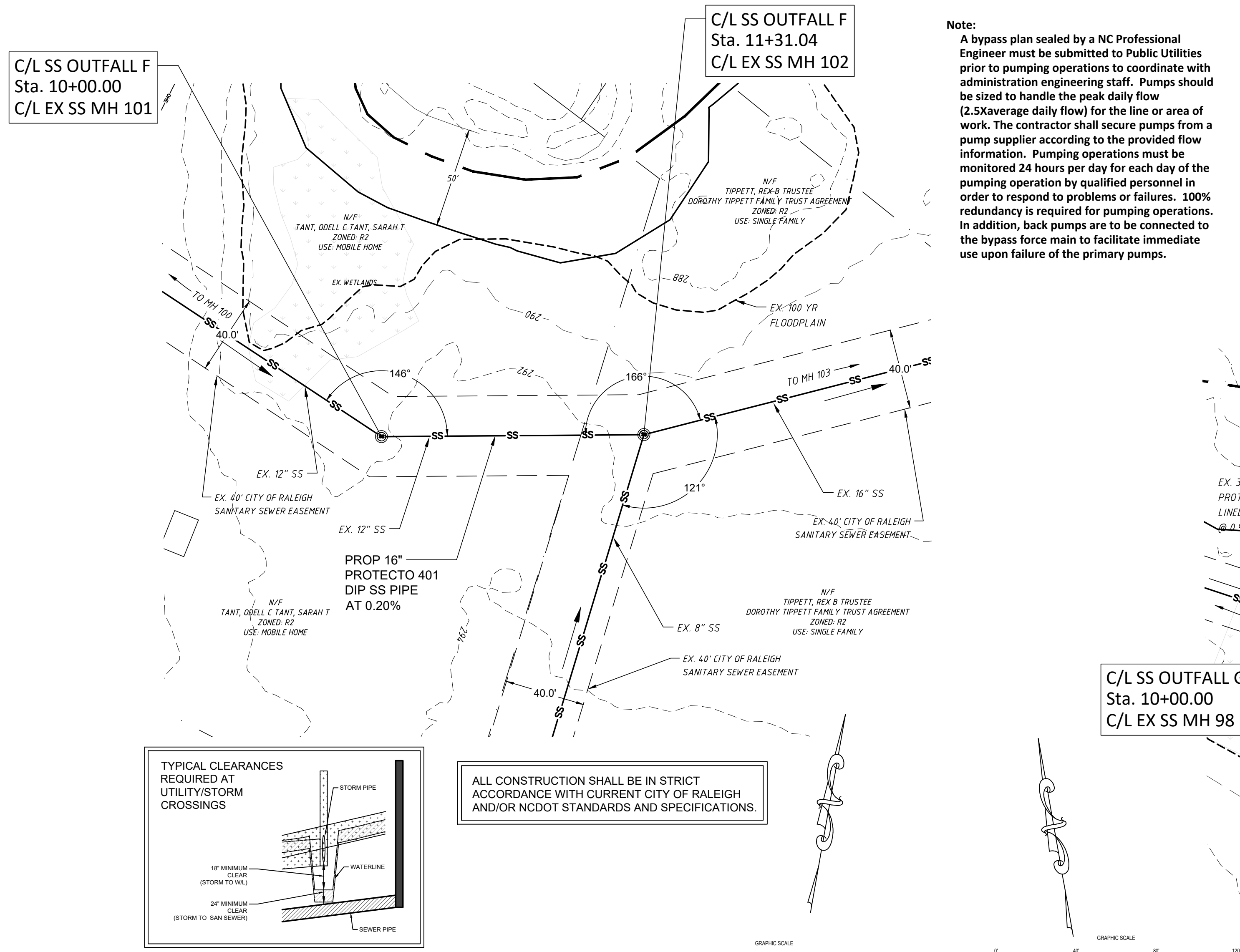
Sanitary Sewer Outfall D
& Outfall E

Date
February 15, 2022

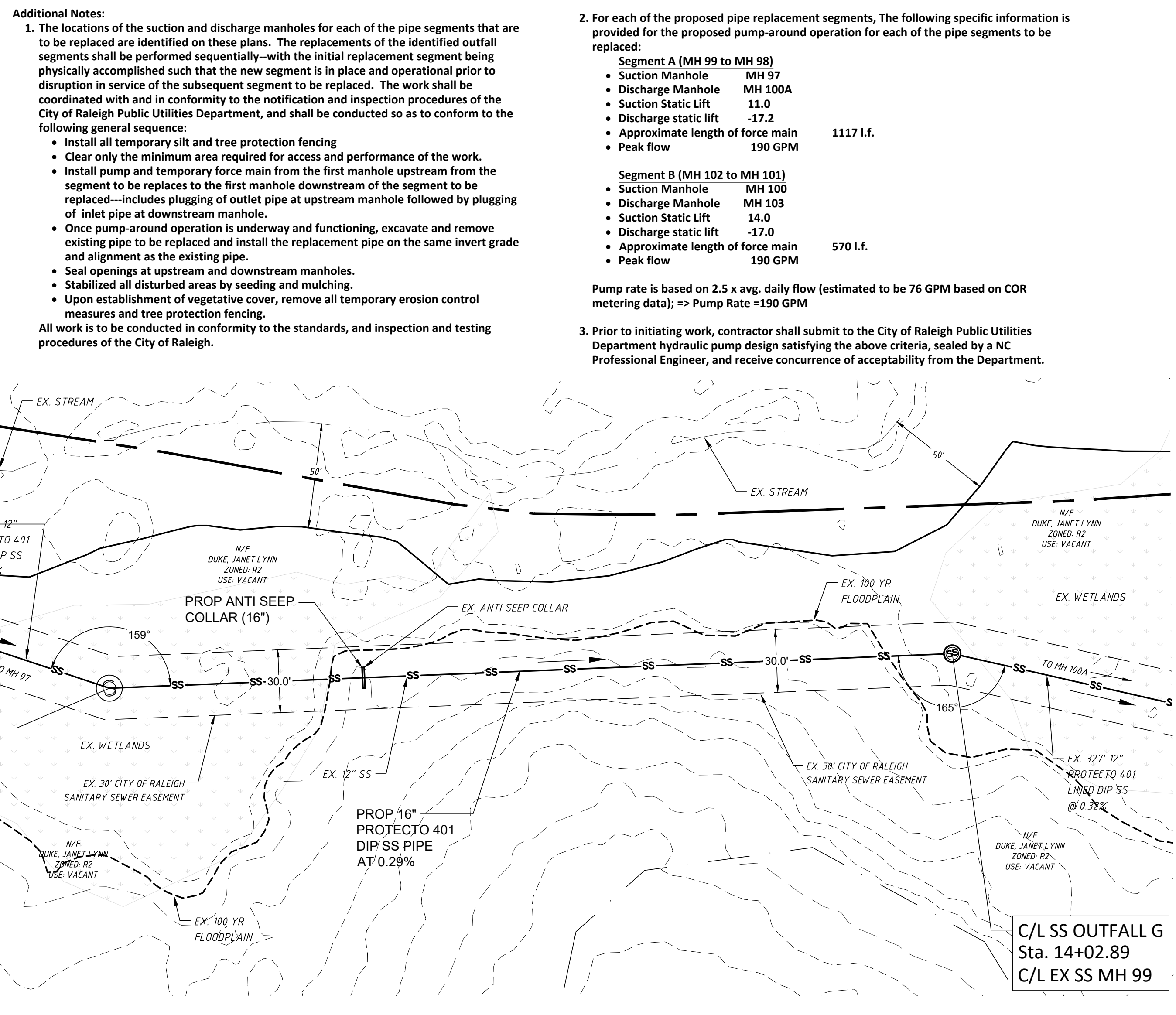
Scale
Horiz: 1" = 40'
Vert: 1" = 4'

Sheet

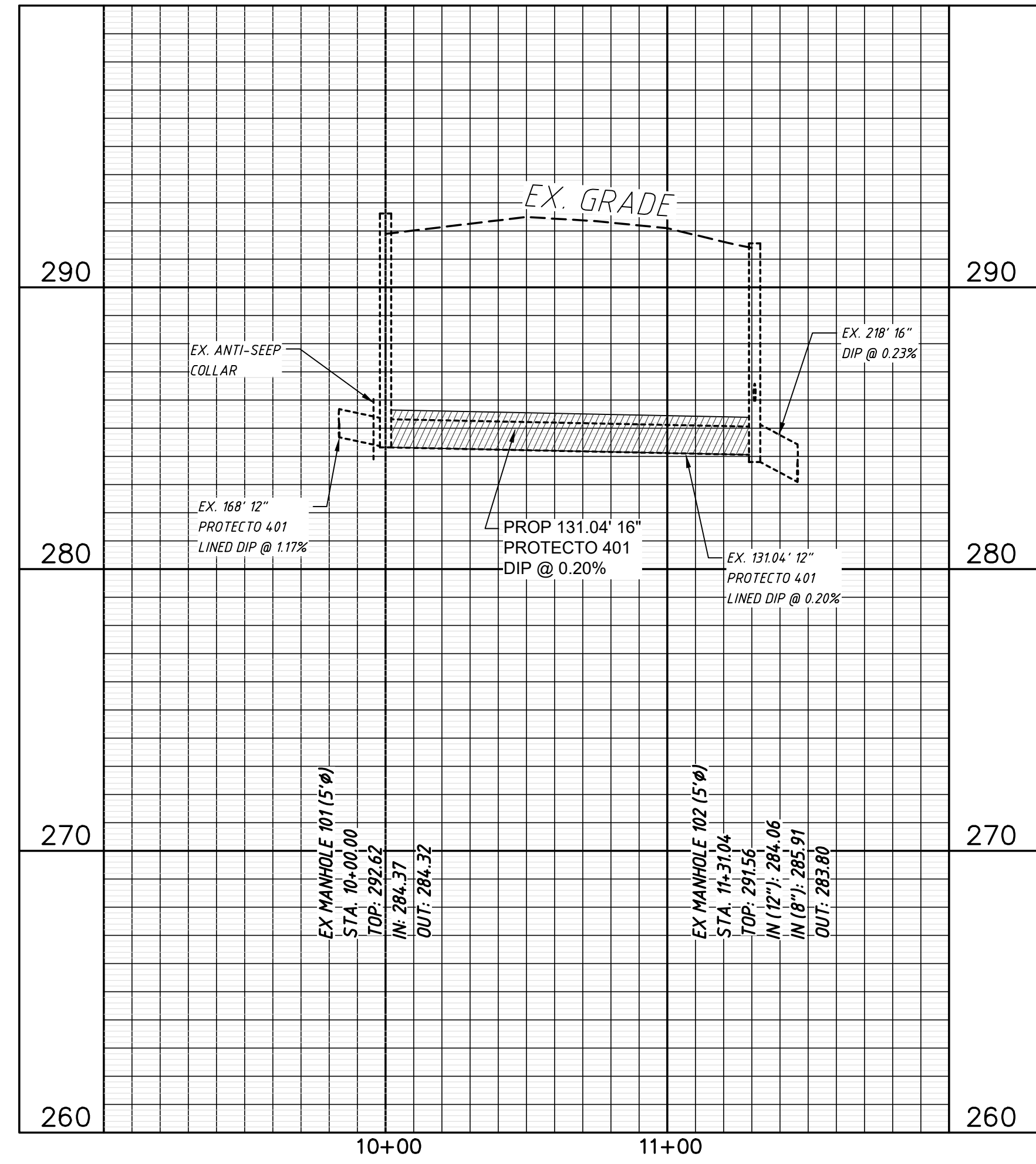
CS-35



Sanitary Sewer Outfall F

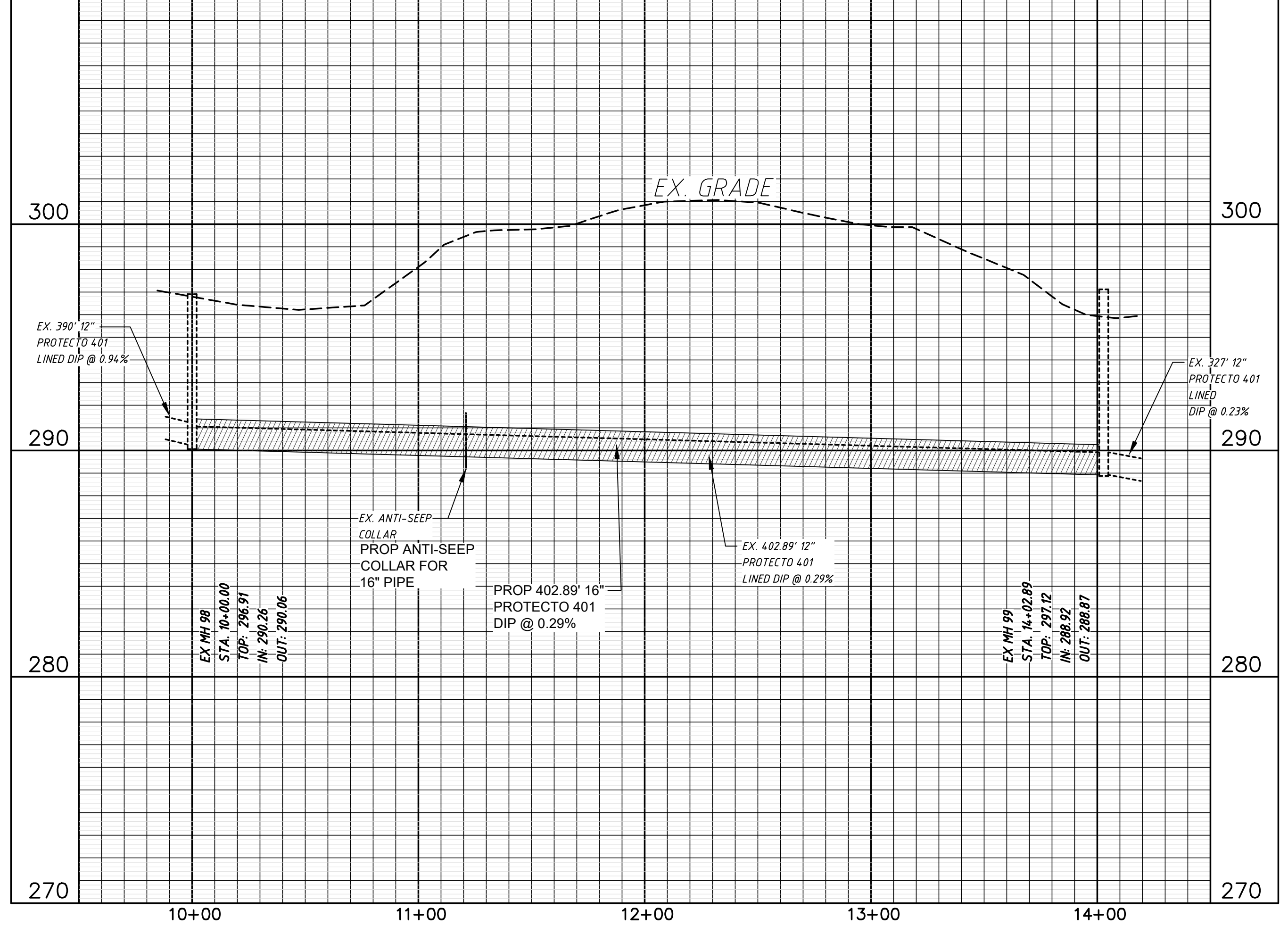


Sanitary Sewer Outfall G



Public Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **W-3961**
Authorization to Construct _____
Date _____

Public Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **S-5098**
Authorization to Construct _____
Date _____



- Revisions**
- 07.13.22-06.12.23 Per City/Town 1st-5th review
 - 10.19.23 Per Wake Co review
 - 01.31.24 Per Wake Co review
 - 08.01.24 Per Wake Co review
 - 09.05.24 Per Wake Co review
 - 10.07.24 Per Wake Co review

Owner:
D.R. Horton, Inc.
7208 Falls of Neuse Road
Raleigh NC 27615
919.497.2163

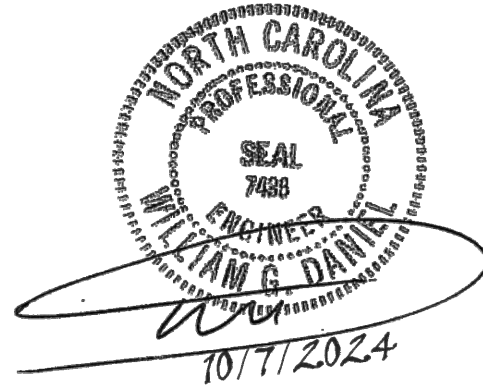
Project
Clifton Grove

Sanitary Sewer Outfall F & Outfall G

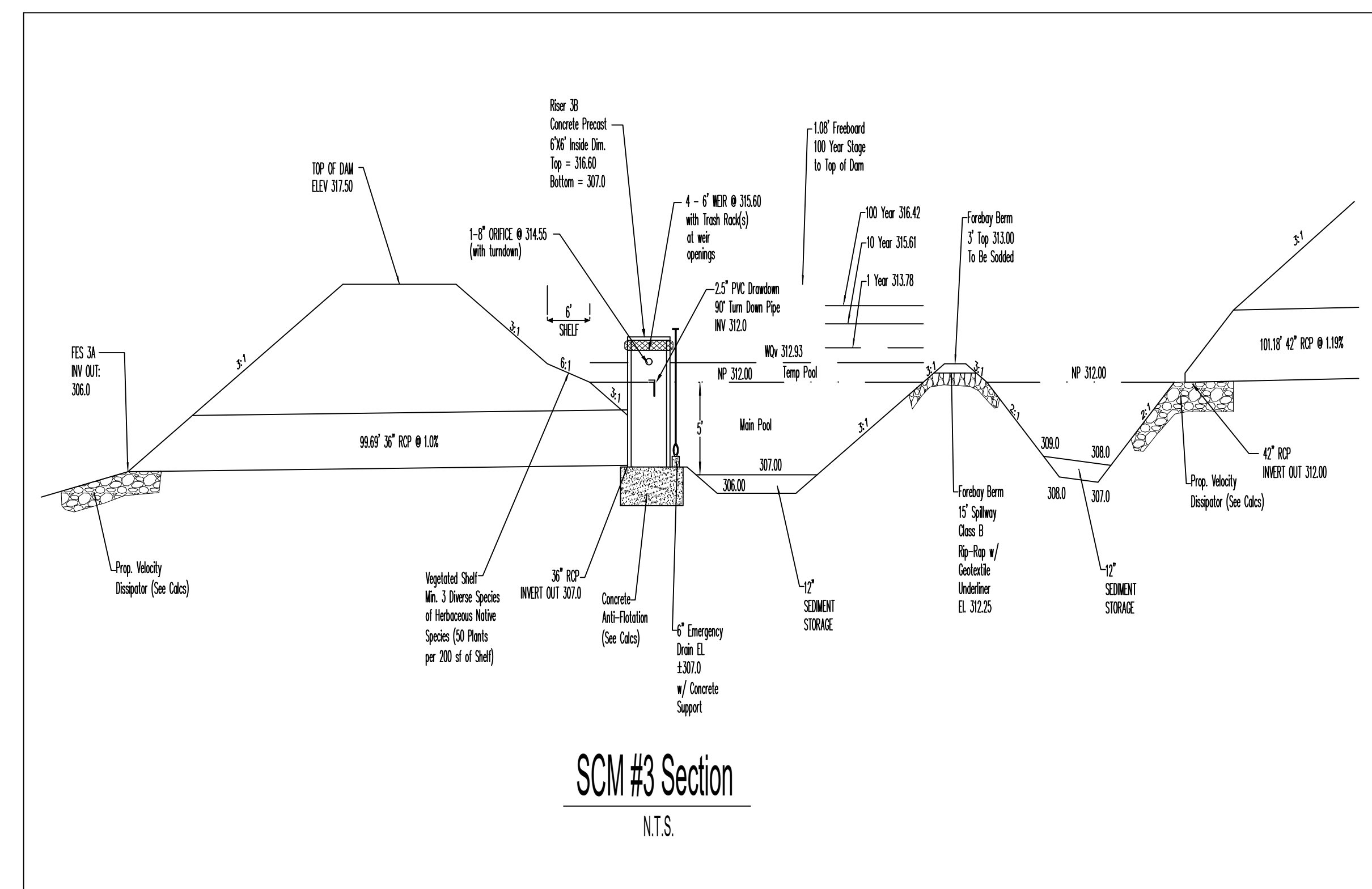
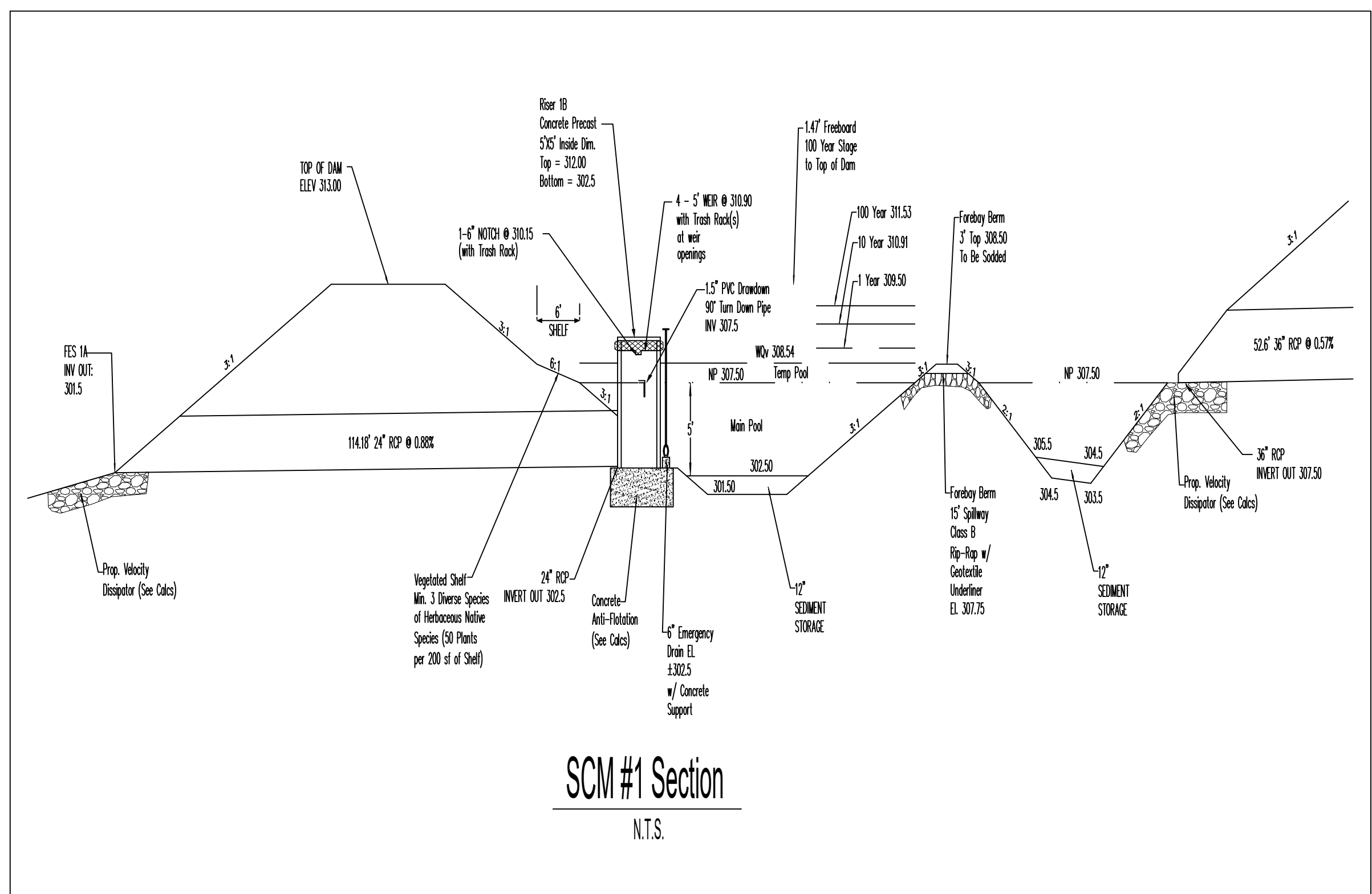
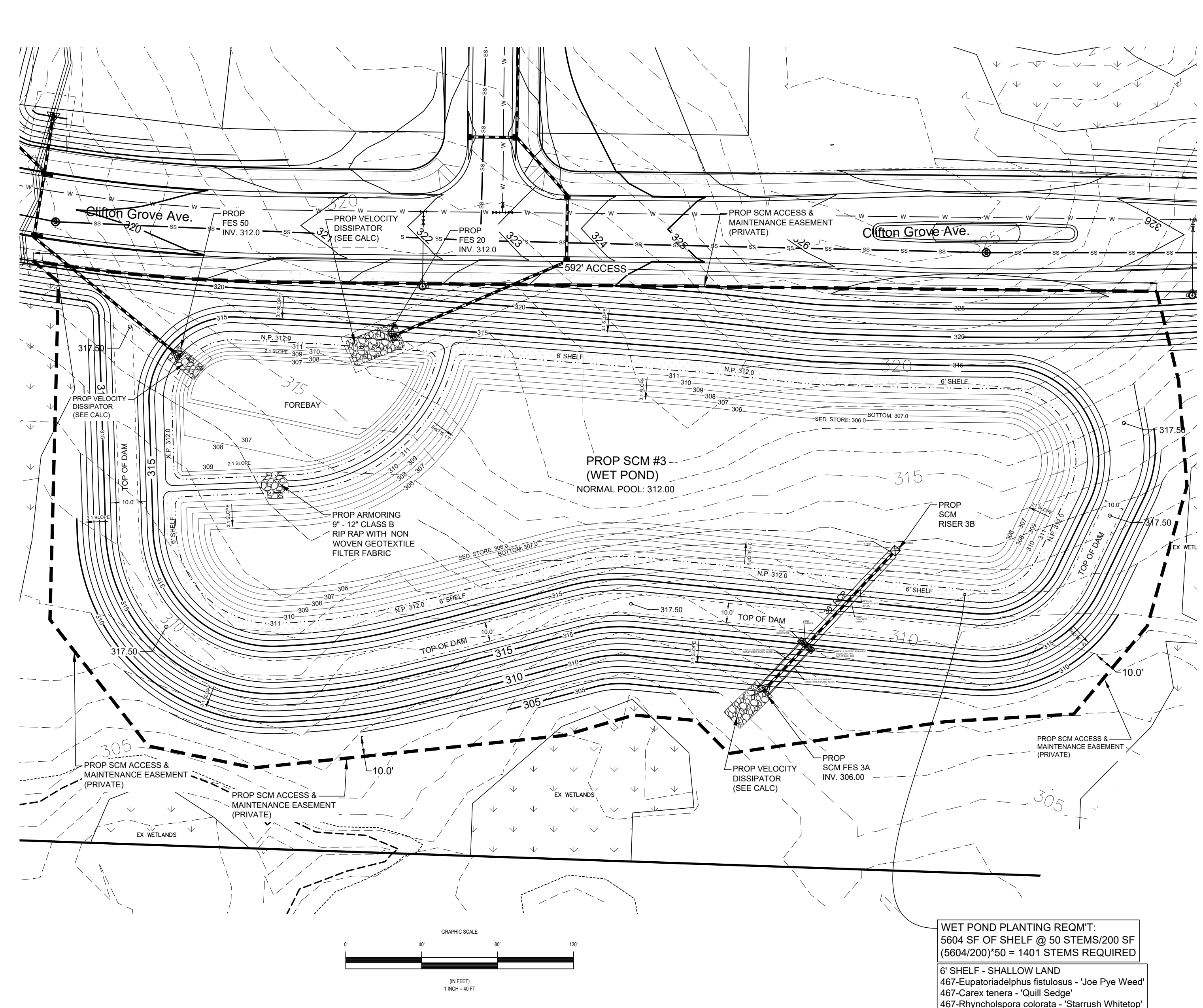
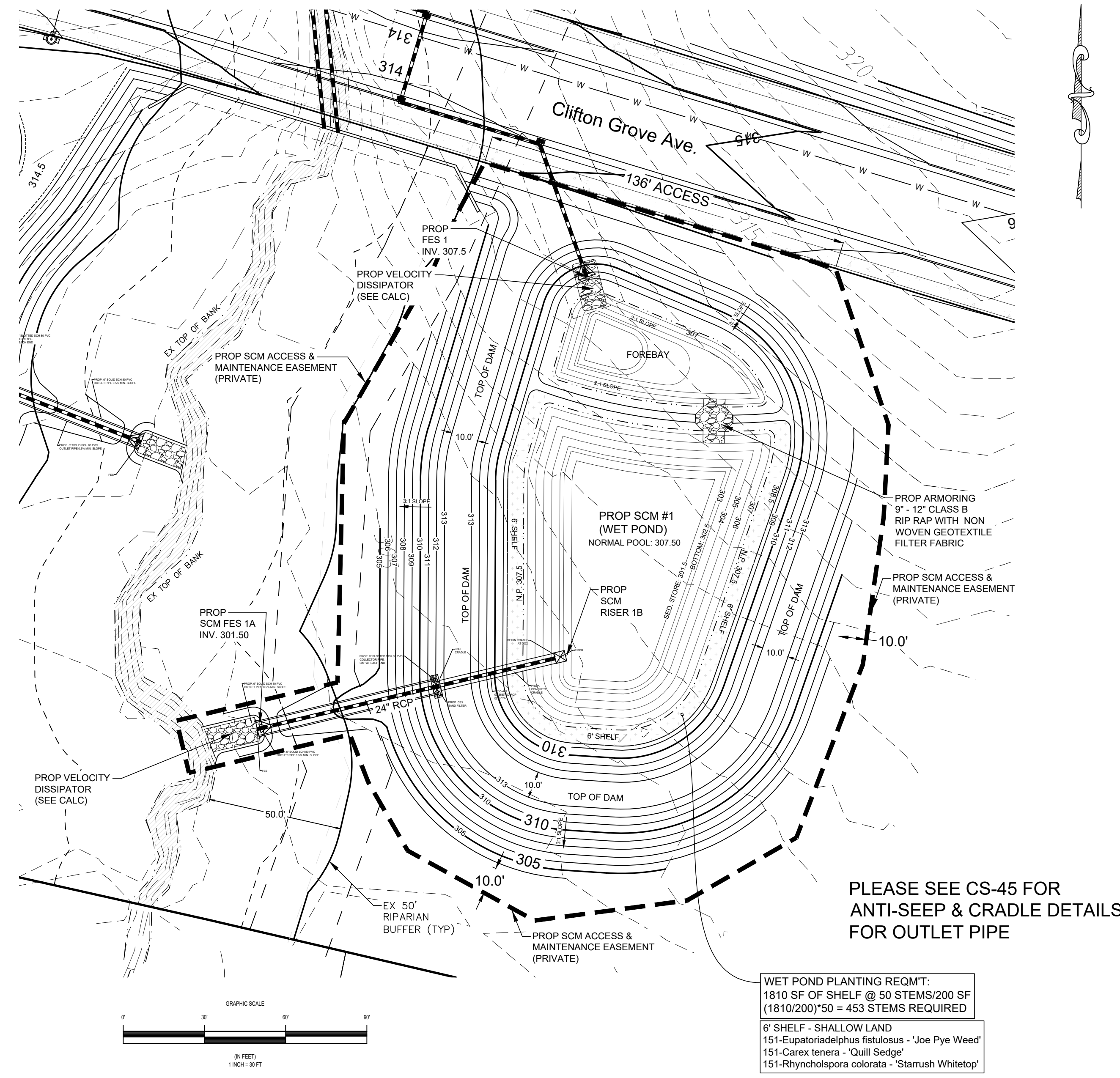
Date
February 15, 2022

Scale
Horiz: 1" = 40'
Vert: 1" = 4'

Sheet



Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
 10.19.23 Per Wake Co review
 01.31.24 Per Wake Co review
 08.01.24 Per Wake Co review
 09.05.24 Per Wake Co review
 10.07.24 Per Wake Co review



Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove

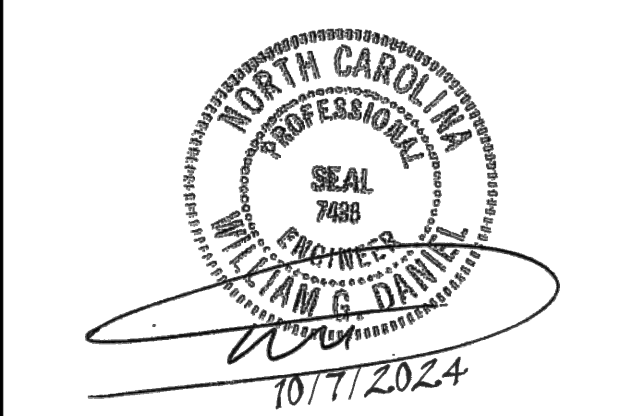
SCM 1 & 3 Details

Date
 February 15, 2022

Scale
 As Shown

Sheet

CS-36



Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
 10.19.23 Per Wake Co review
 01.31.24 Per Wake Co review
 08.01.24 Per Wake Co review
 09.05.24 Per Wake Co review
 10.07.24 Per Wake Co review

Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove

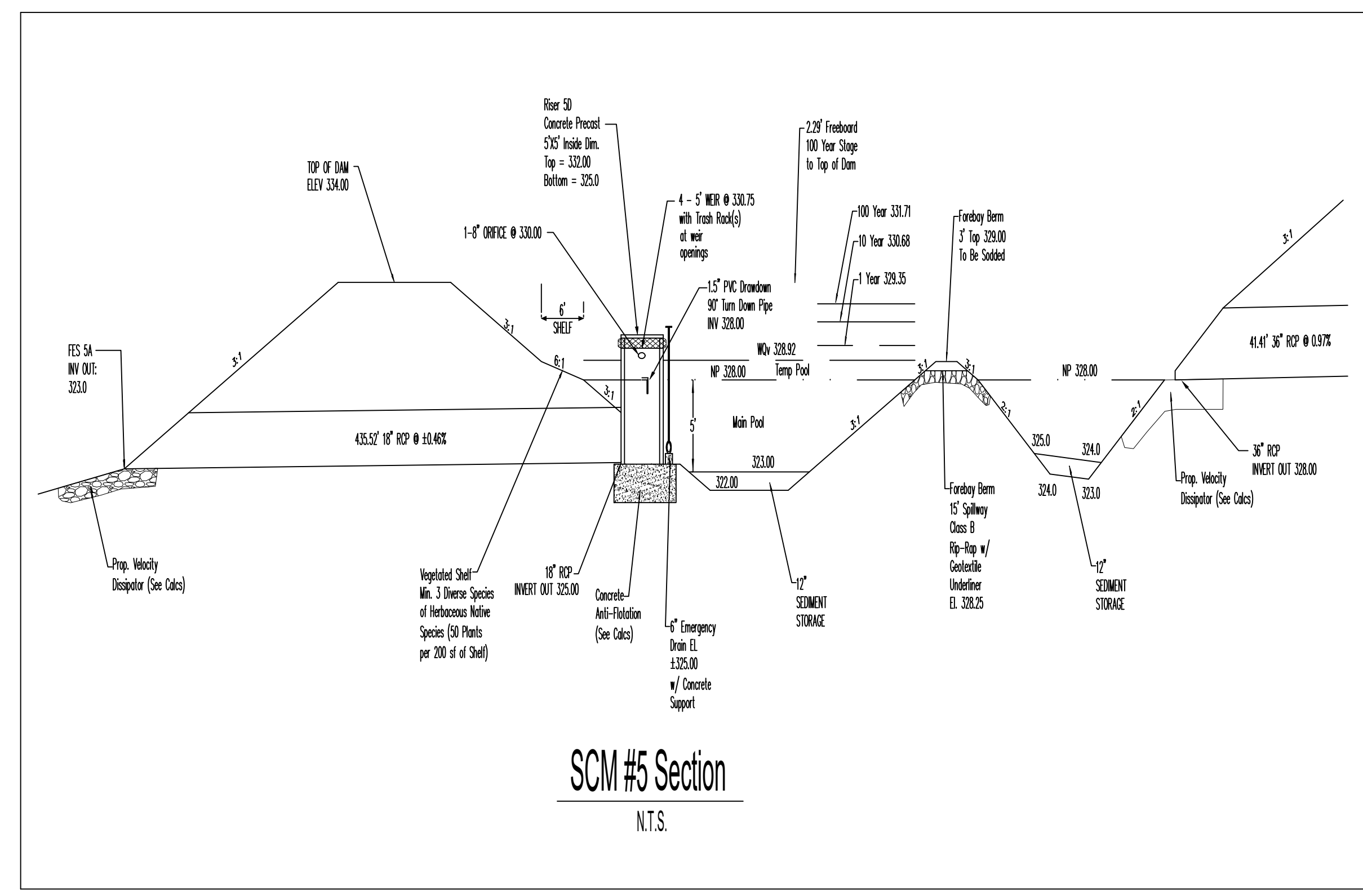
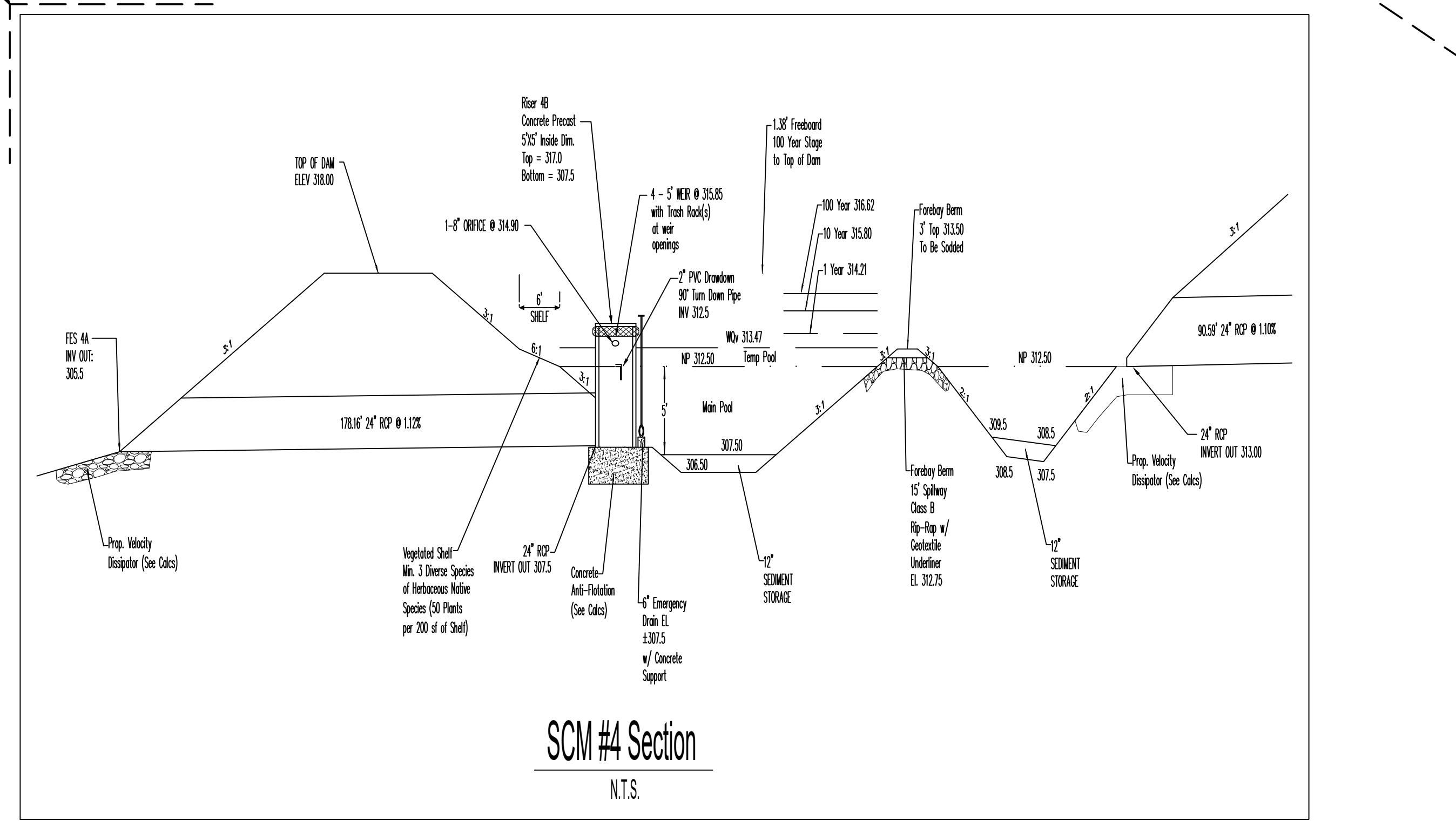
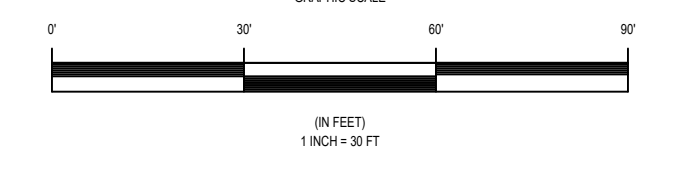
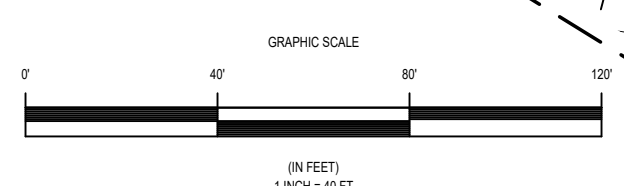
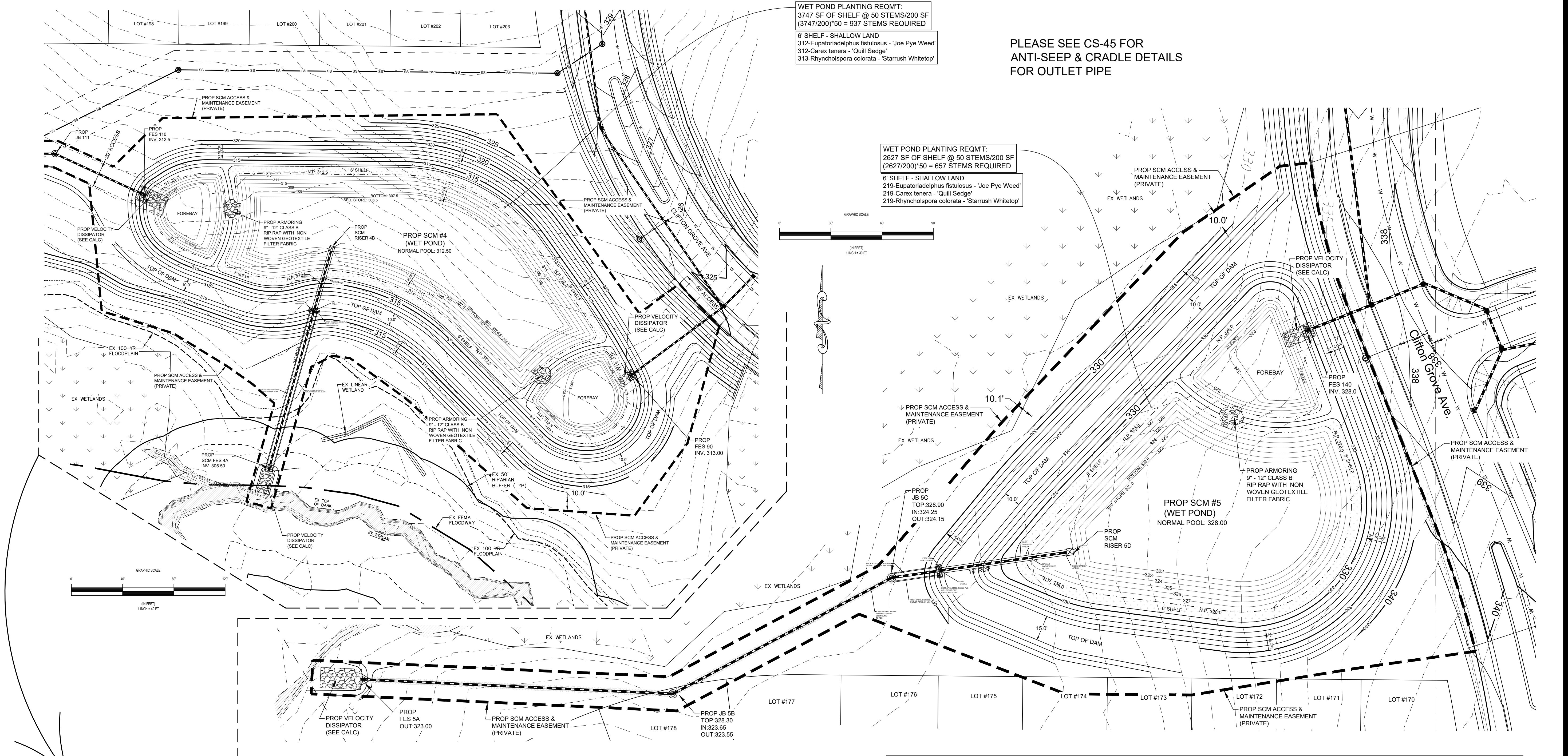
SCM 4 & 5 Details

Date
 February 15, 2022

Scale
 As Shown

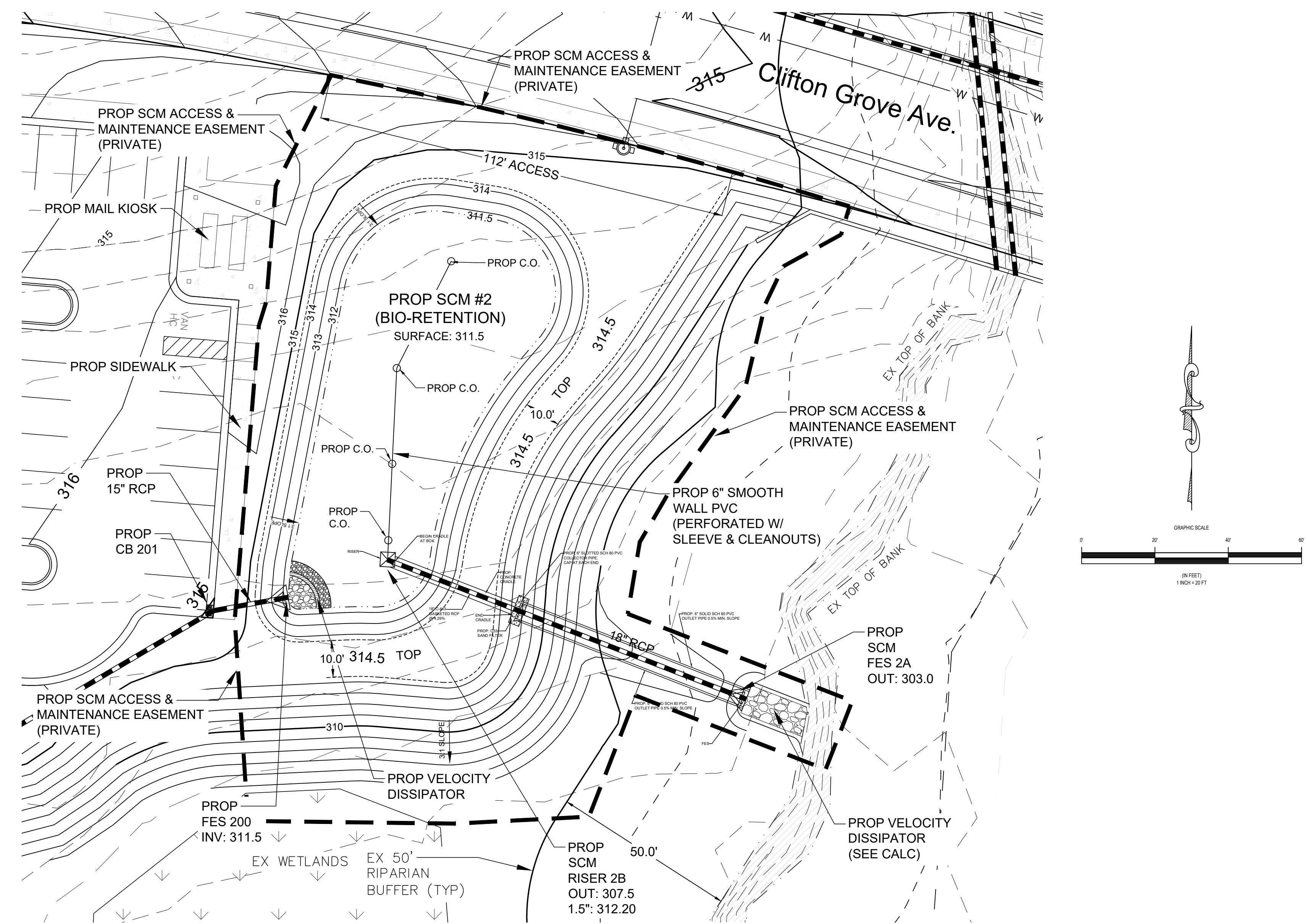
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CS-37

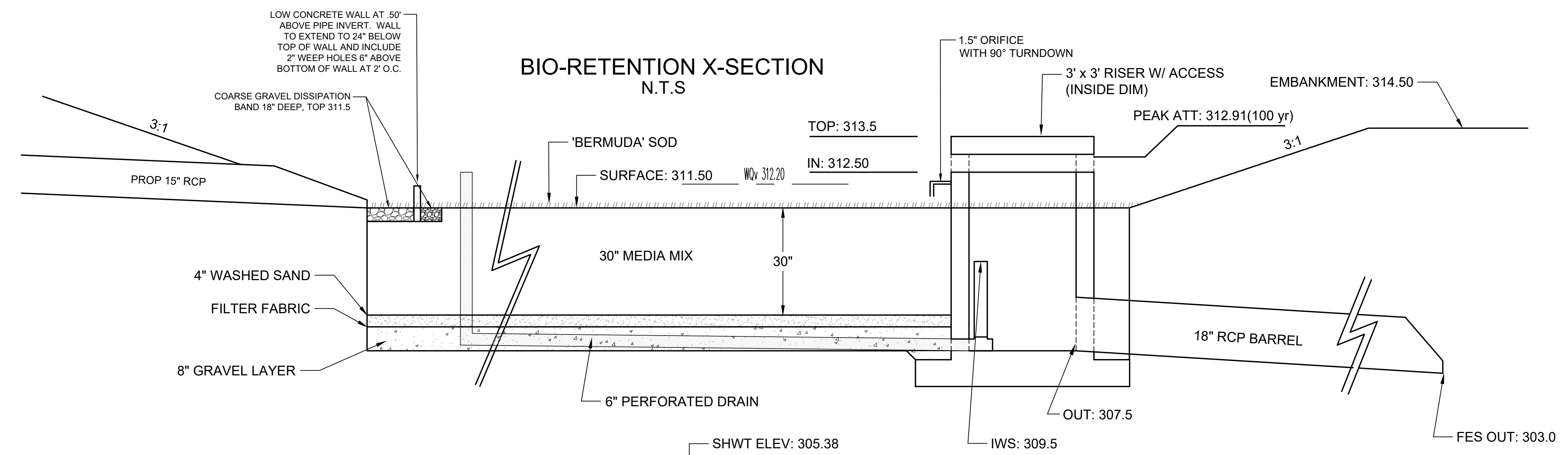




- Revisions**
- 07.13.22-06.12.23 Per City/Town 1st-5th review
 - 10.19.23 Per Wake Co review
 - 01.31.24 Per Wake Co review
 - 08.01.24 Per Wake Co review
 - 09.05.24 Per Wake Co review
 - 10.07.24 Per Wake Co review



PLEASE SEE CS-45 FOR ANTI-SEEP & CRADLE DETAILS FOR OUTLET PIPE



MEDIA MIX:
 THE MEDIA SHOULD BE COMPOSED OF A HOMOGENOUS MIX OF THE FOLLOWING:
 A. 75-85% MEDIUM TO COARSE WASHED SAND
 B. 8-10% FINES (SILT AND CLAY); AND
 C. 5-10% ORGANIC MATTER (SUCH AS PINE PARK FINES)

Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

Project
 Clifton Grove

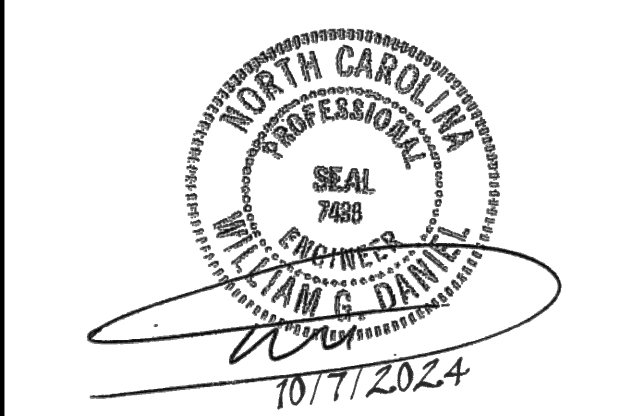
SCM 2 Details

Date
 February 15, 2022

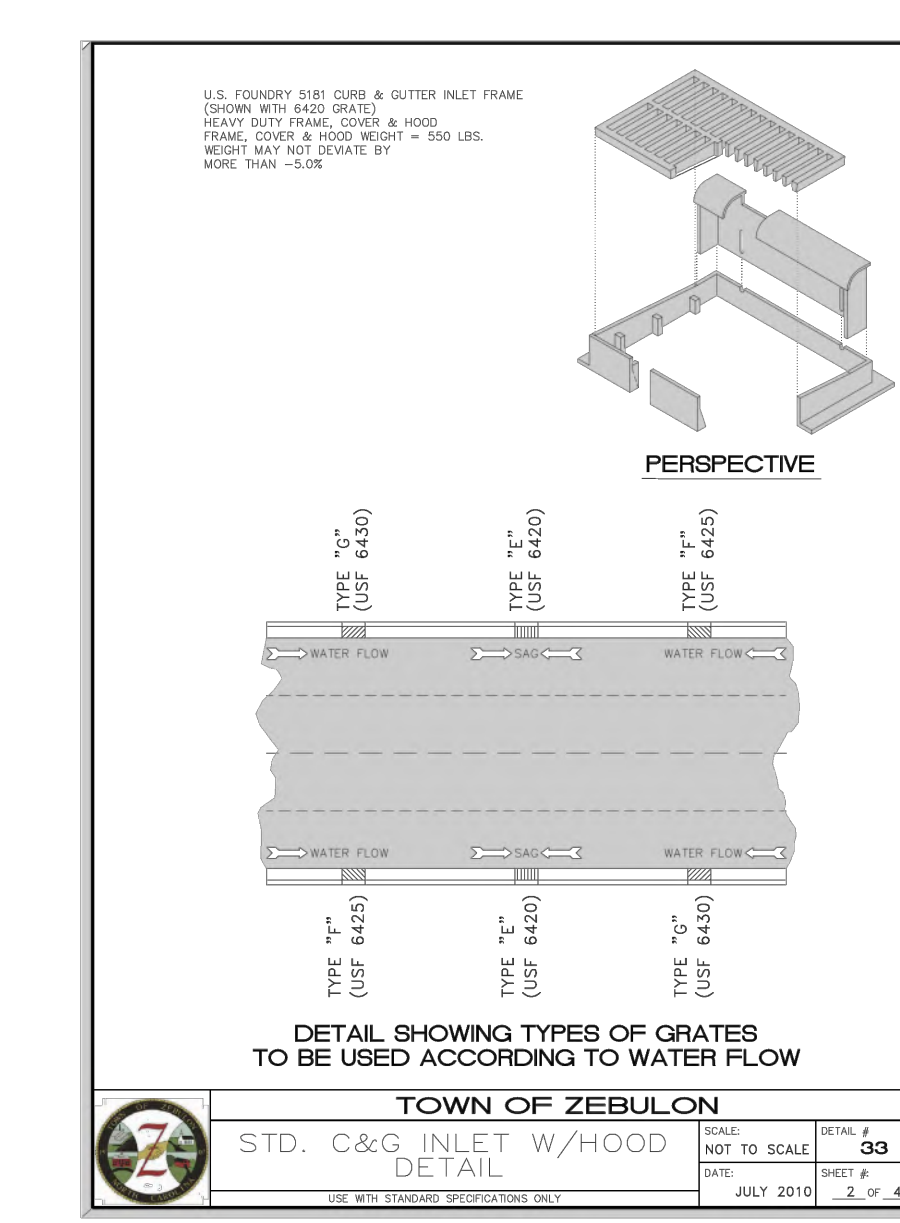
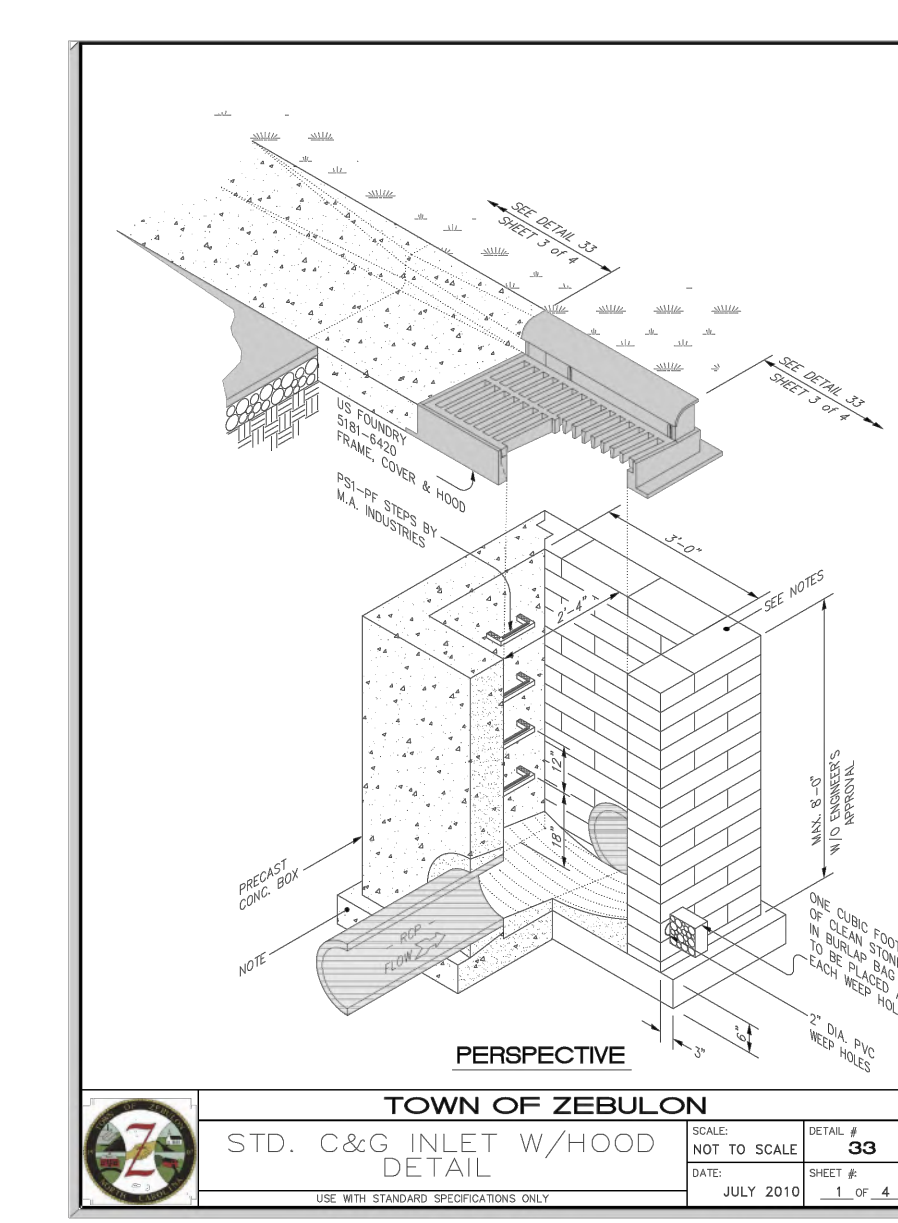
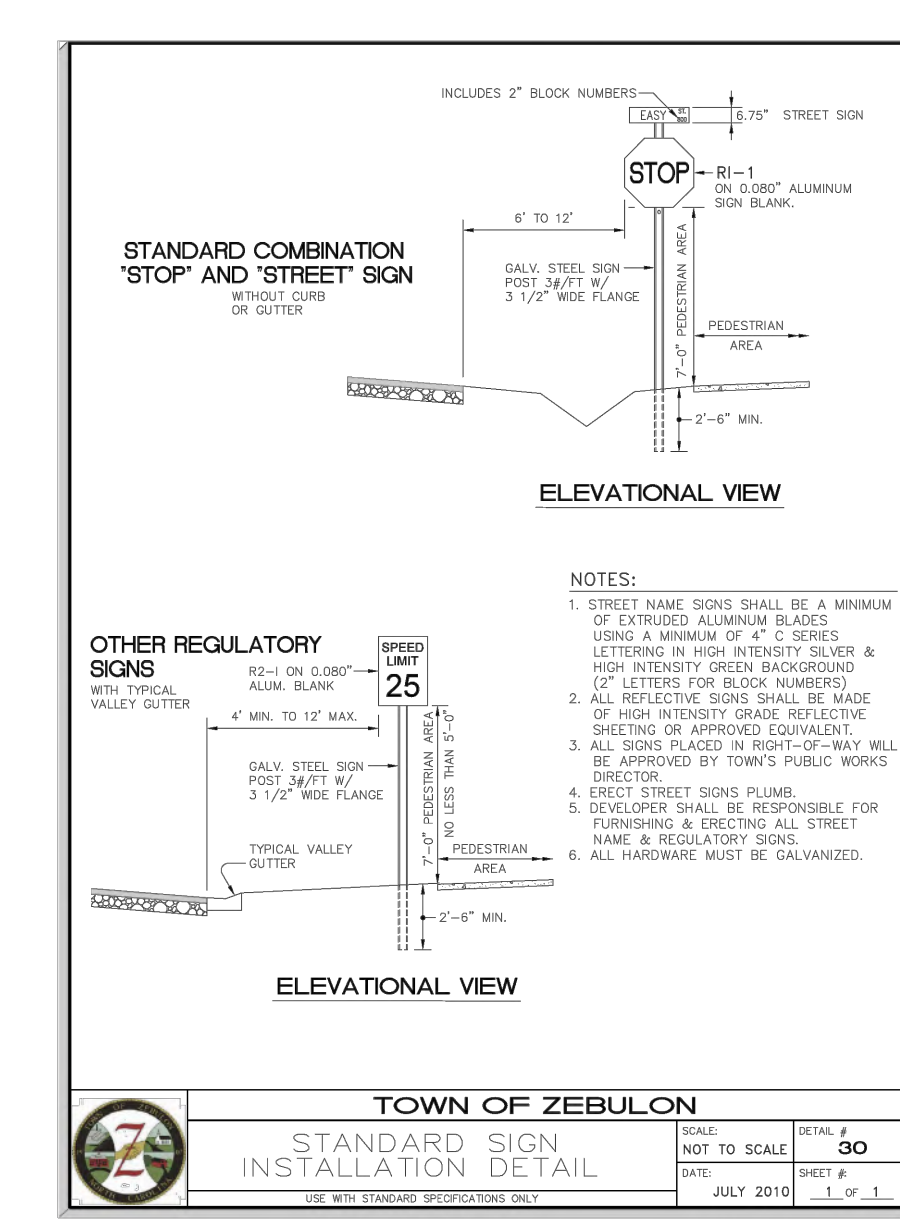
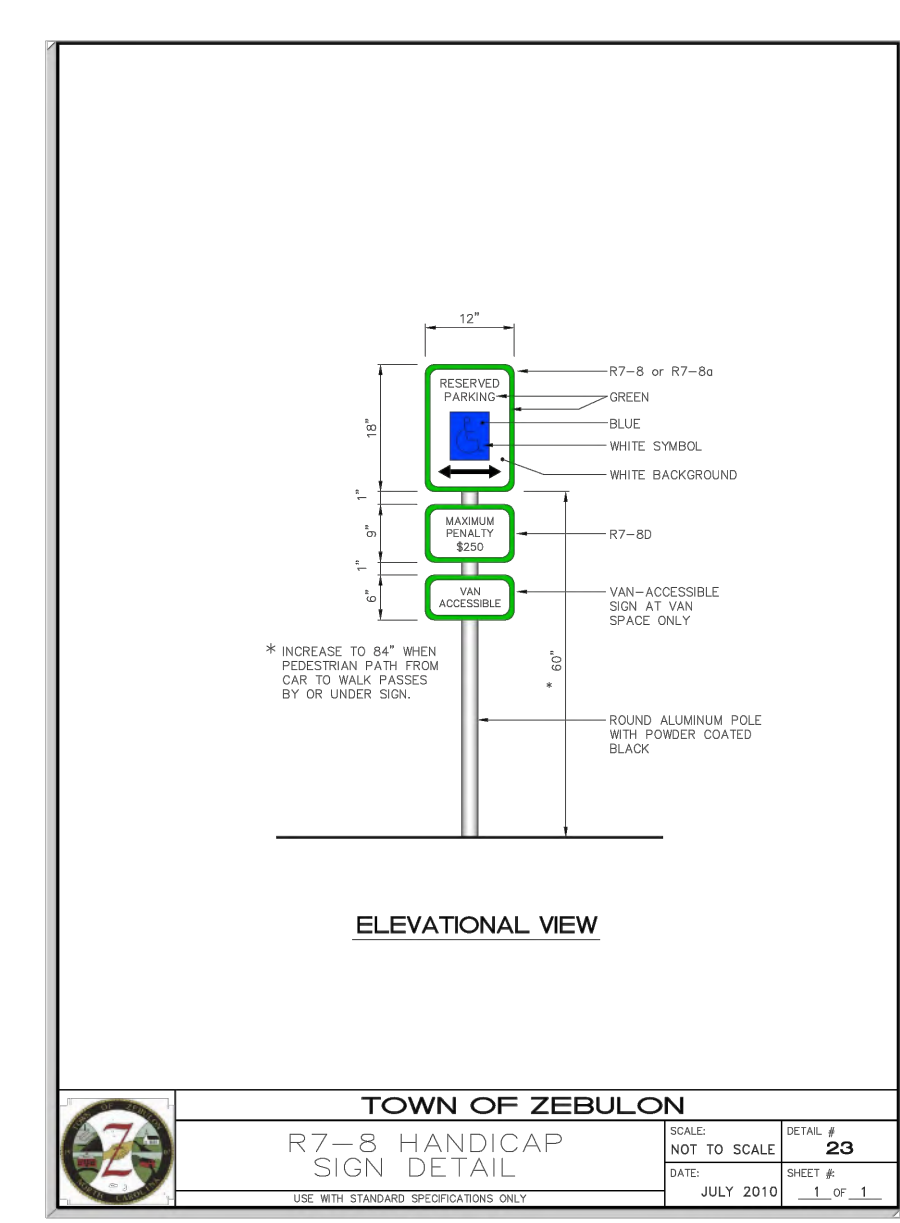
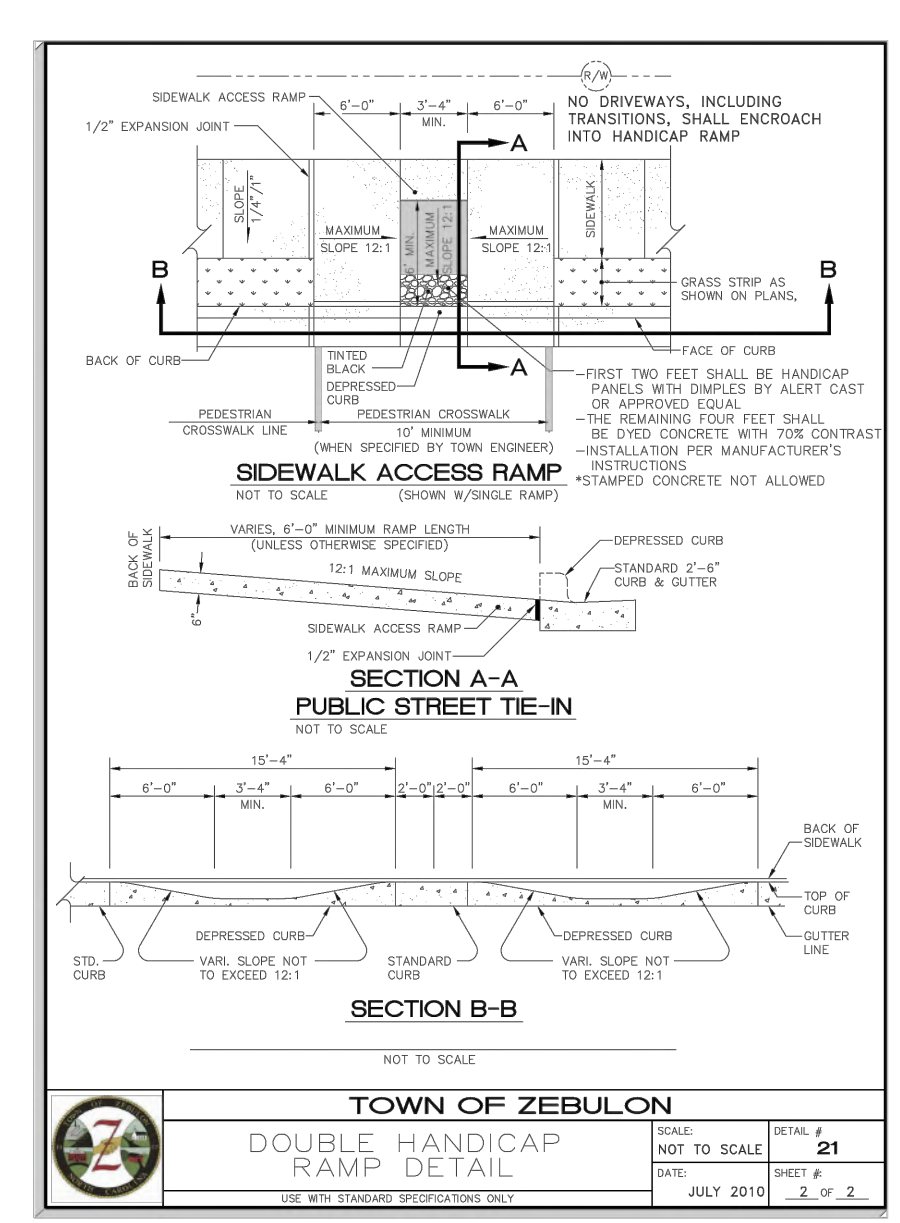
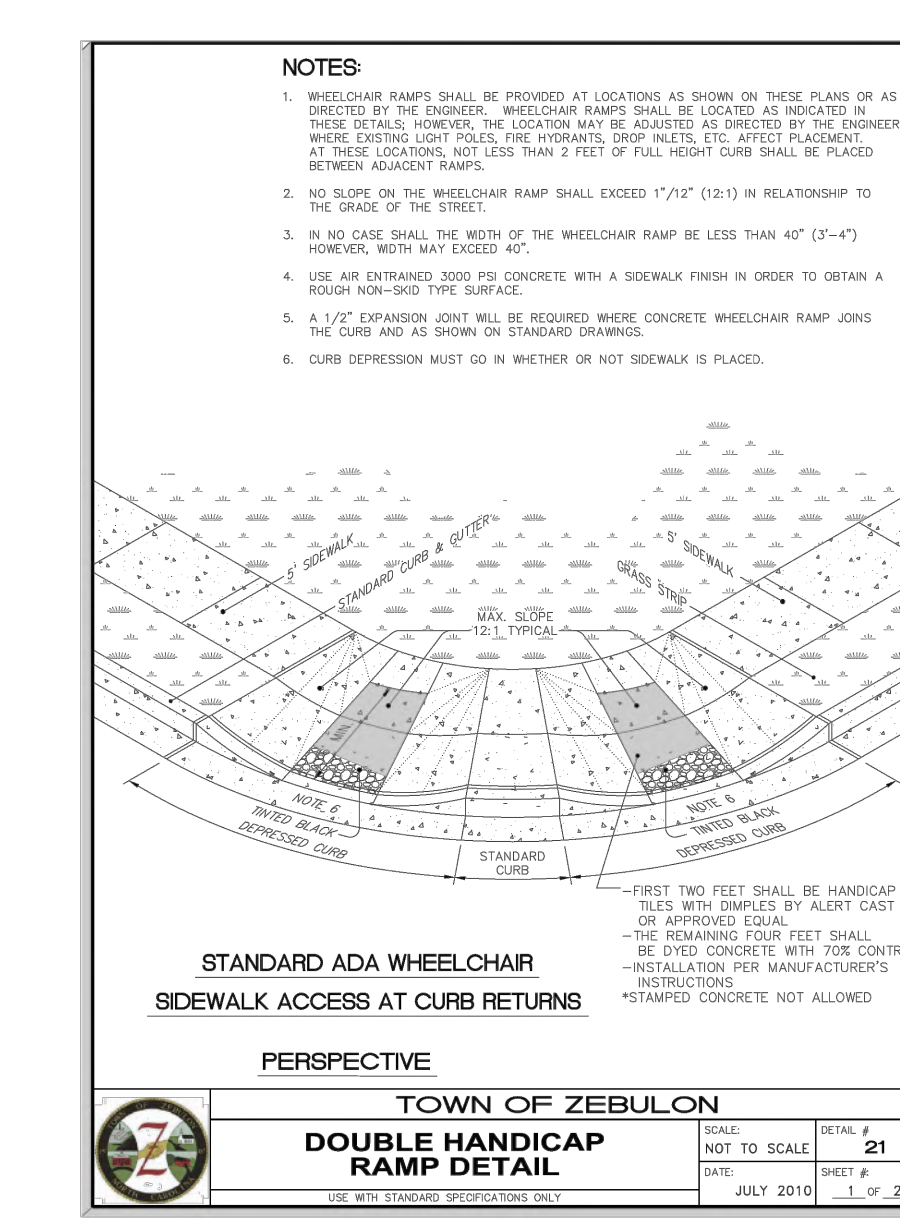
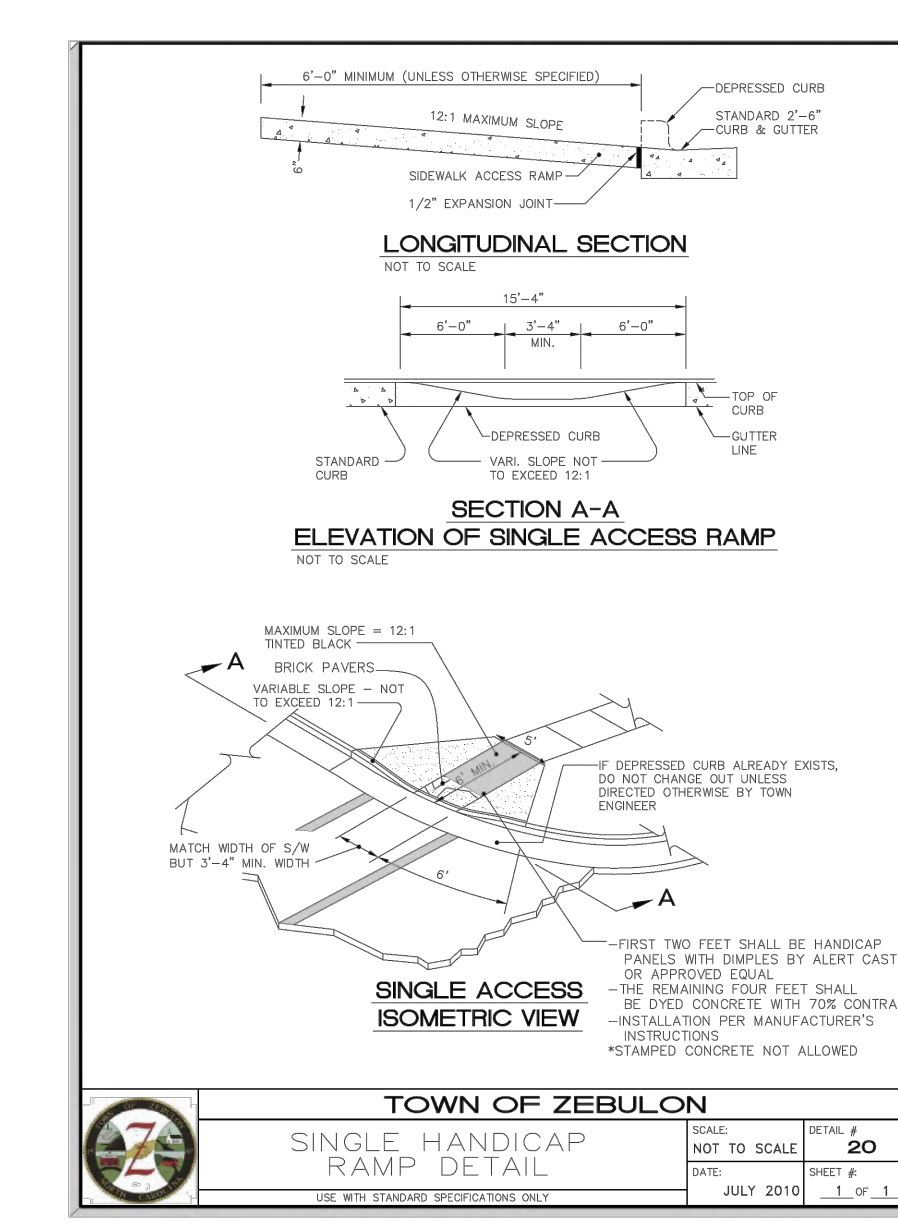
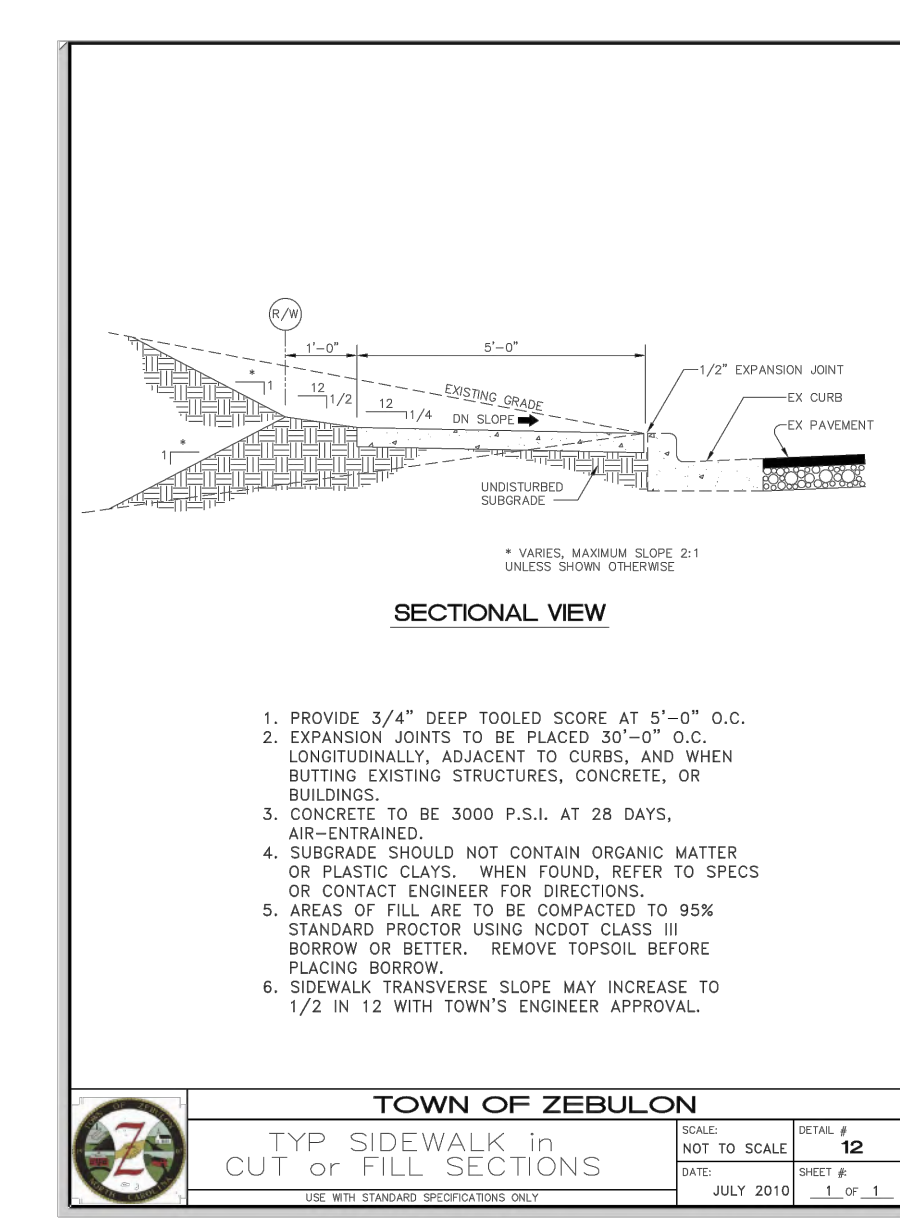
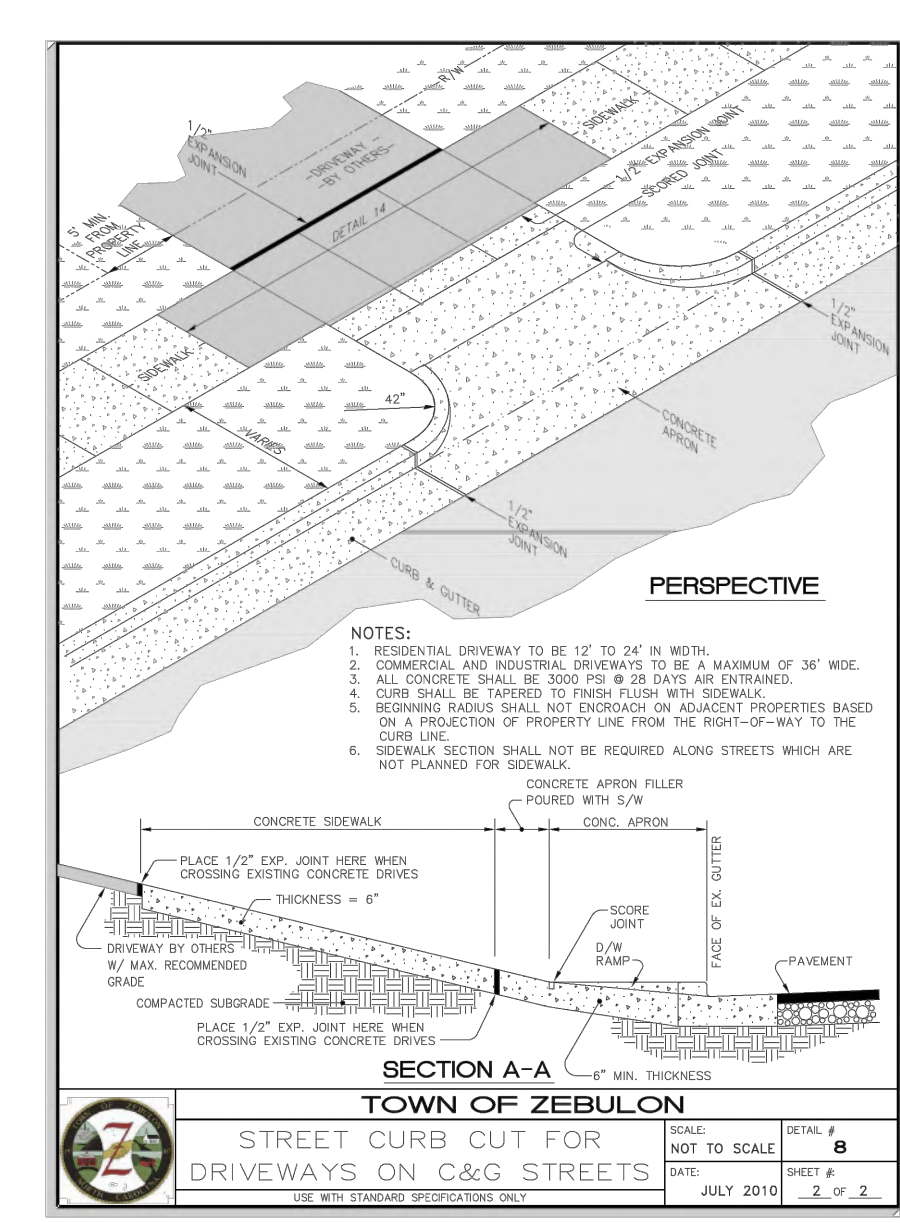
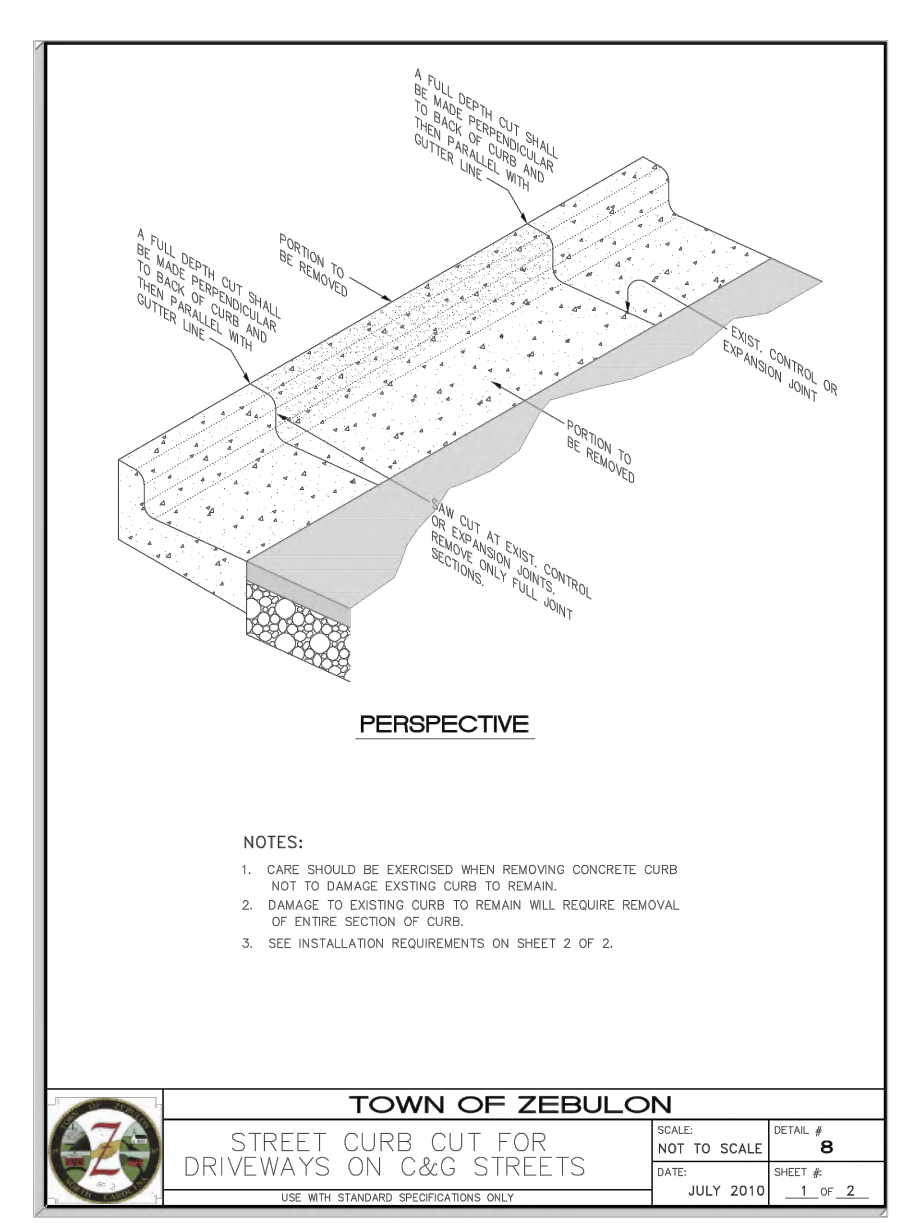
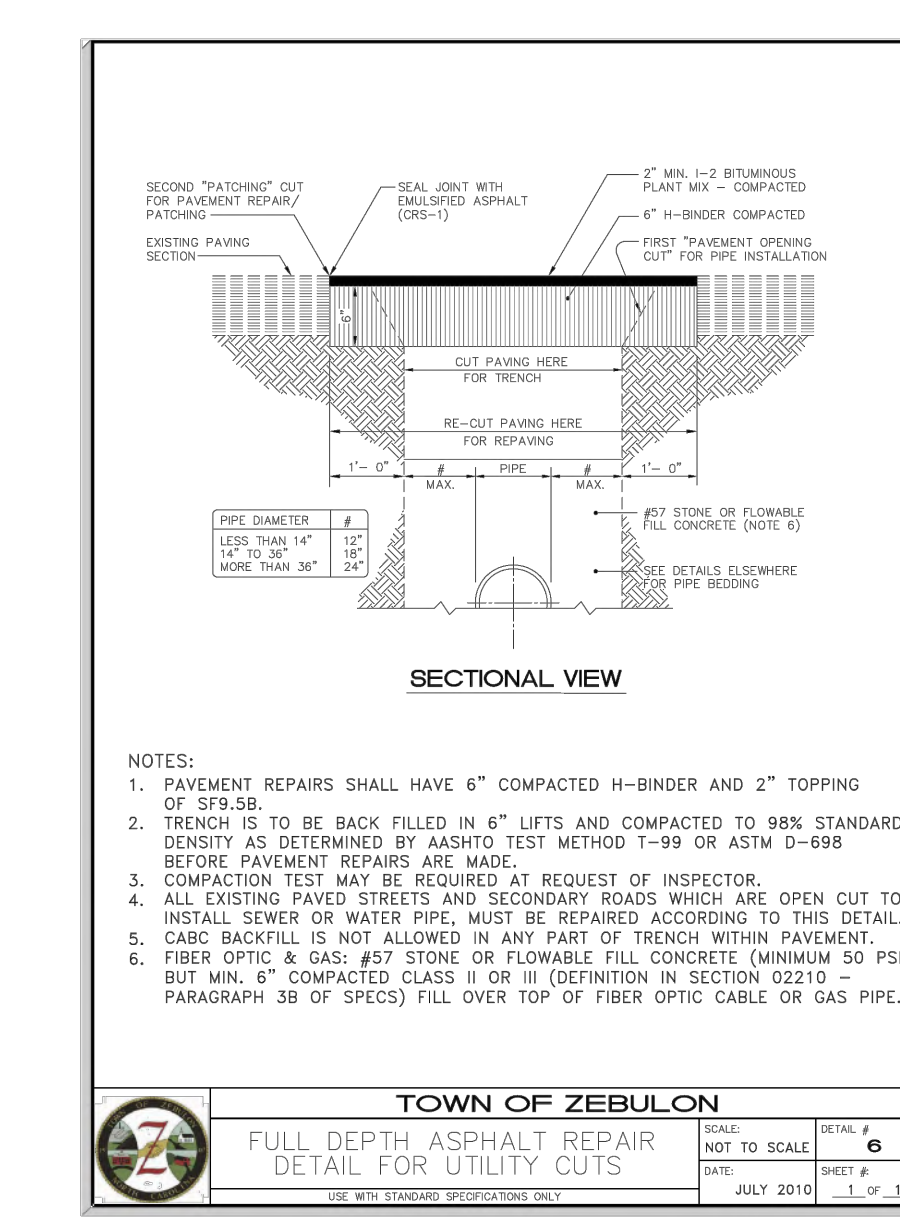
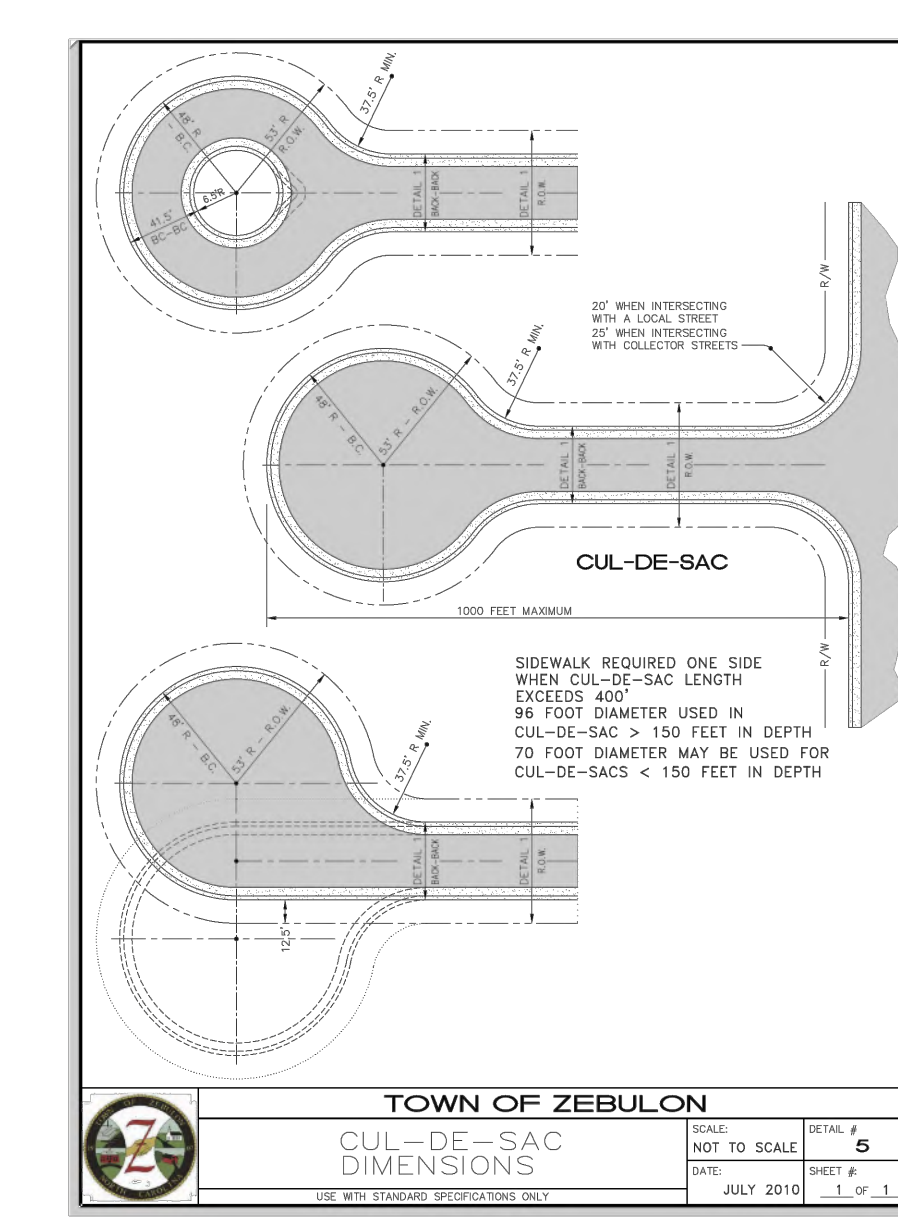
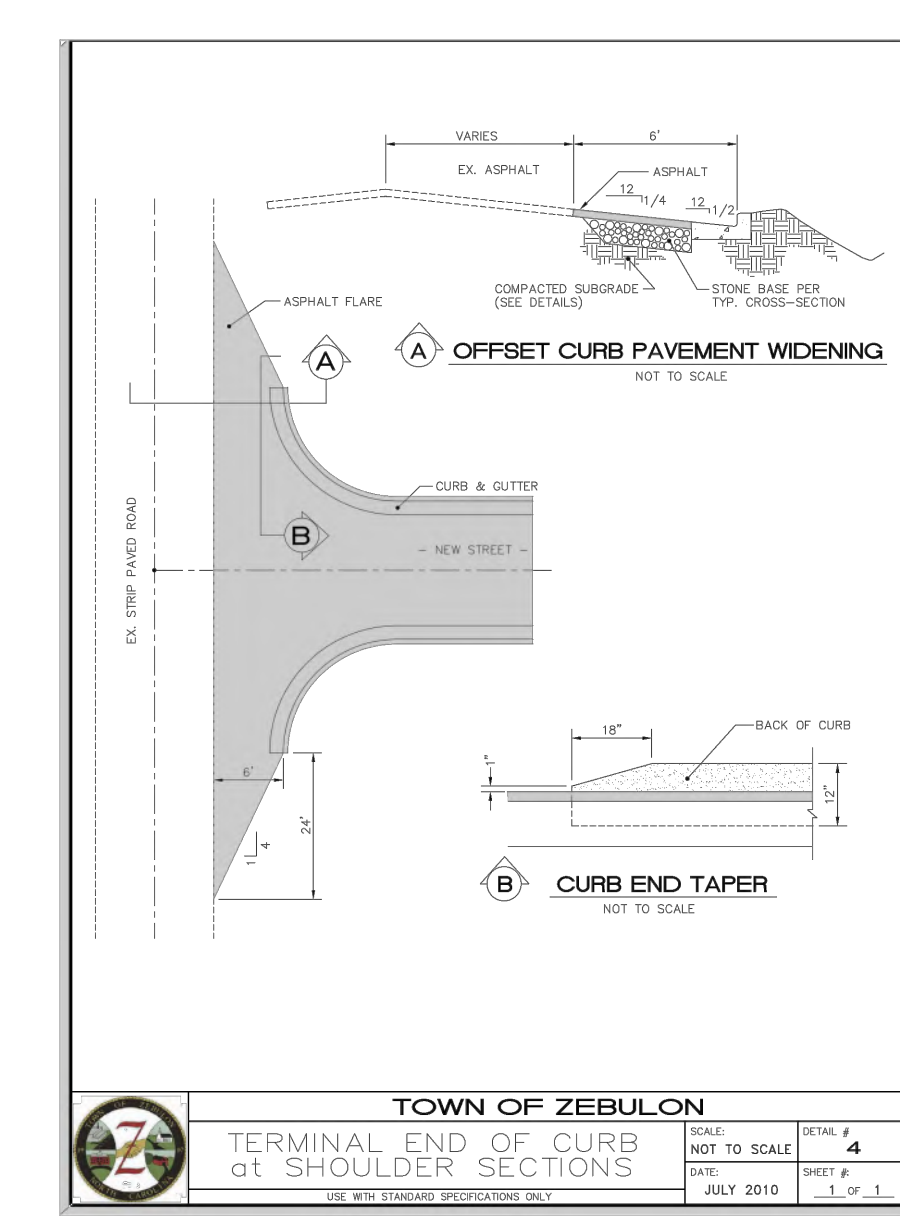
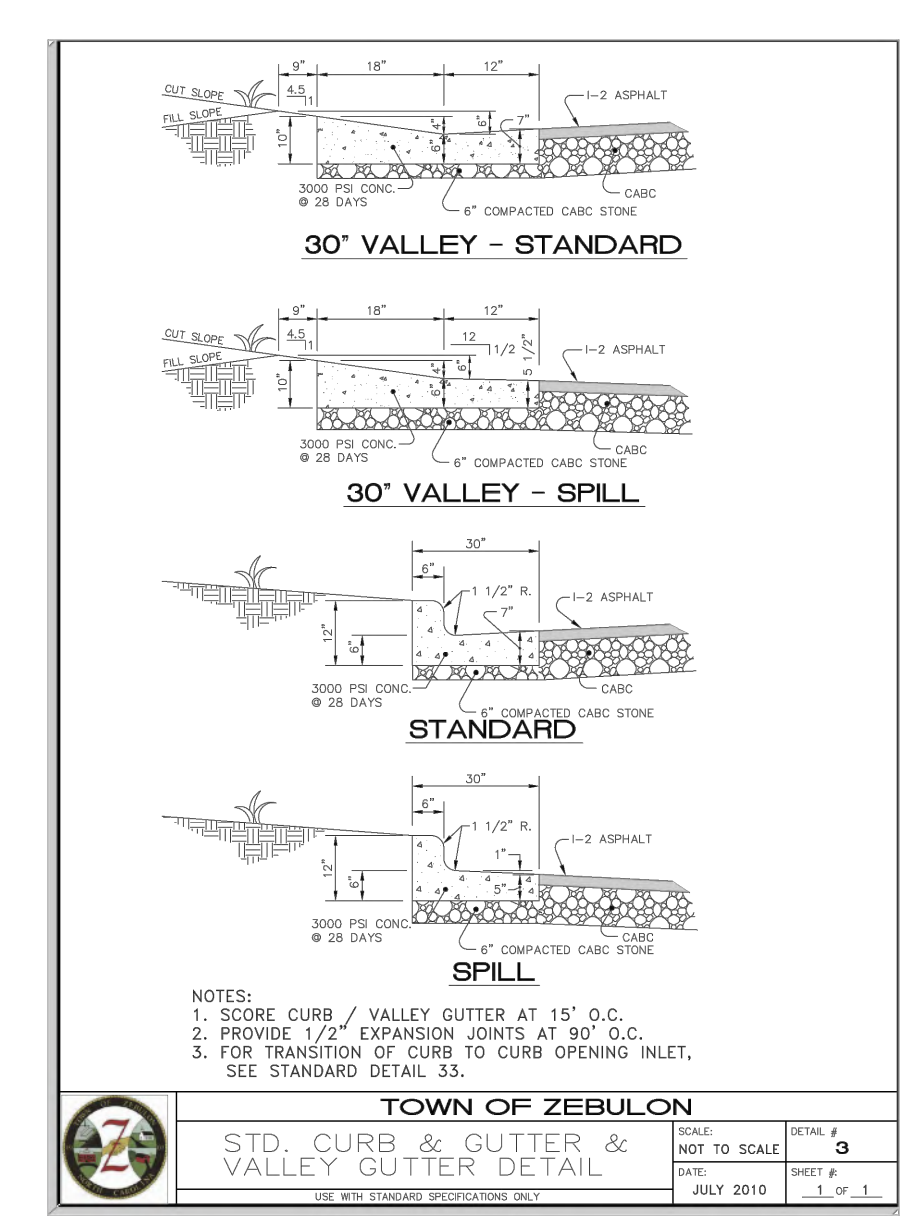
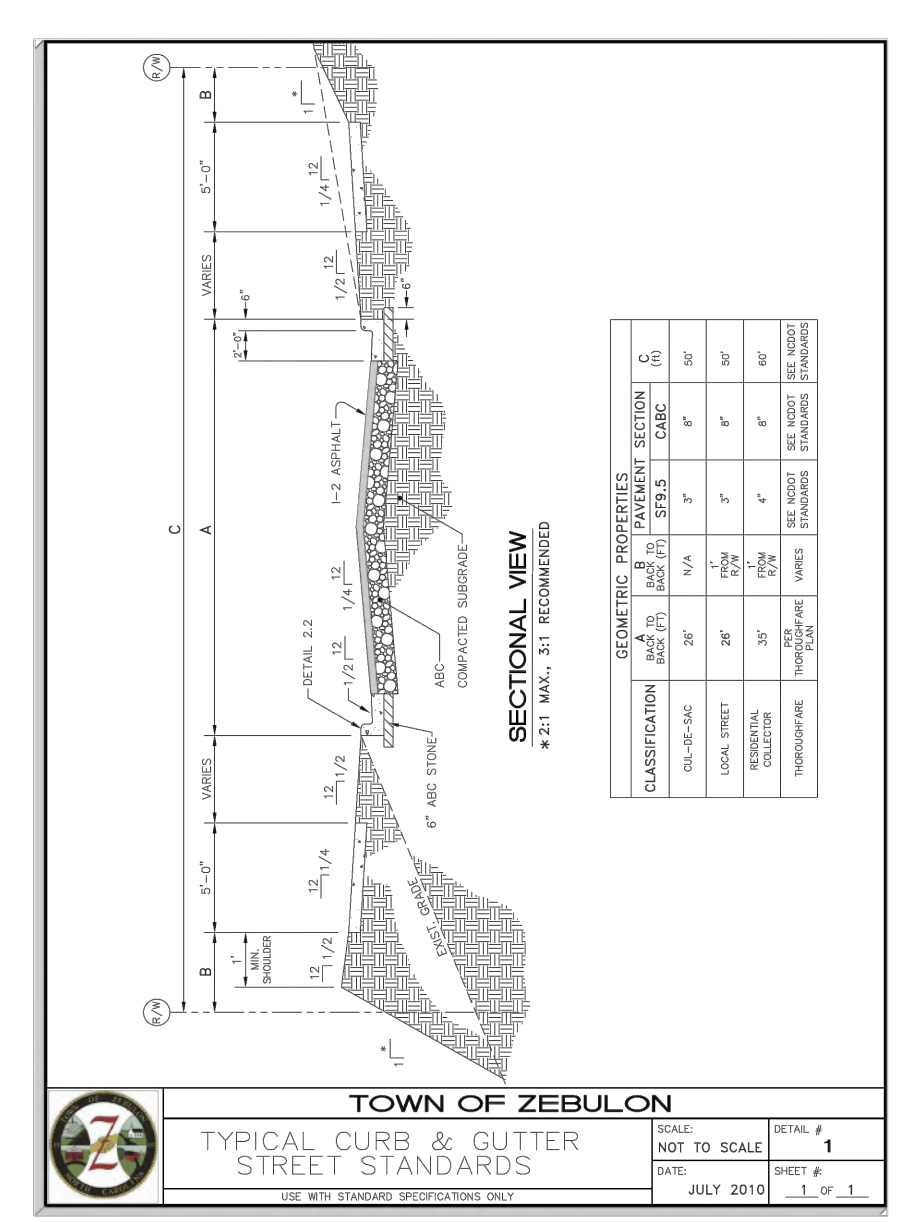
Scale
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Sheet

CS-38



Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
 10.19.23 Per Wake Co review
 01.31.24 Per Wake Co review
 08.01.24 Per Wake Co review
 09.05.24 Per Wake Co review
 10.07.24 Per Wake Co review



Owner:
 Watson Family II LLC
 6220 Forestville Road
 Raleigh NC 27604
 919.819.5509

Project
 Clifton Grove

Details

Date
 February 15, 2022

Scale
 None

Sheet



Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
 10.19.23 Per Wake Co review
 01.31.24 Per Wake Co review
 08.01.24 Per Wake Co review
 09.05.24 Per Wake Co review
 10.07.24 Per Wake Co review

TOWN OF ZEBULON
 STD. TRANSITION FROM INLET TO STD. C&G VALLEY GUTTER
 SHEET # 33 OF 4
 DATE: JULY 2010

TOWN OF ZEBULON
 DETAIL FOR STORM DRAIN WITH DRIVEWAY CONFLICT
 SHEET # 33 OF 4
 DATE: JULY 2010

END SECTION DIMENSIONS		D		E	
DIA. A	B	D	E	D	E
18"	2"	2'-3 1/4"	3'-11 1/2"	8'-2 3/4"	2'-6"
18"	9"	3'-2"	3'-11 1/2"	6'-8"	3'-11 3/4"
30"	1'-2"	3'-7 1/4"	3'-11 1/2"	8'-2 3/4"	3'-0"
30"	1'-2"	3'-7 1/4"	3'-11 1/2"	8'-2 3/4"	3'-0"
42"	1'-10 1/4"	3'-1 3/8"	3'-11 1/2"	8'-2 3/8"	6'-5 1/4"

TOWN OF ZEBULON
 STD. FLARED END SECTIONS DESIGN AID DETAIL
 SHEET # 35 OF 1
 DATE: JULY 2010

TOWN OF ZEBULON
 STD. TRENCH INSTALLATION FOR CONCRETE PIPE
 SHEET # 36 OF 3
 DATE: JULY 2010

TOWN OF ZEBULON
 STD. TRENCH INSTALLATION FOR CONCRETE PIPE
 SHEET # 36 OF 3
 DATE: JULY 2010

USDO Soil (Category I)	USCS	AASHTO	Standard Proctor	Modified Proctor
Gravelly Sand (Category I)	SK, SW, SA, SP	A1-A3	100	85
Sandy Silty Clay (Category II)	SH, SW, WL, MH, SC, CL, ML, OL, CH, CL, ML, OL	A2-A4	100	85
Silty Clay (Category II)	CL, ML, OL	A5-A6	100	85
Clay (Category II)	CH, MH, SH, OH	A7-A9	100	85

TOWN OF ZEBULON
 STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)
 SHEET # 36 OF 3
 DATE: JULY 2010

Installation Type	Bedding	Haunch and Outer Bedding	Lower Side
Type 1	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	98% Category I	98% Category I, 98% Category II, 100% Category II
Type 2	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	98% Category I	98% Category I, 98% Category II, 100% Category II
Type 3	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	98% Category I, 98% Category II	98% Category I, 98% Category II, 100% Category II
Type 4	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	No compaction required, except for 98% Category I, use 98% Category II	No compaction required, except for 98% Category I, use 98% Category II

TOWN OF ZEBULON
 STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)
 SHEET # 36 OF 3
 DATE: JULY 2010

Installation Type	Bedding	Haunch and Outer Bedding	Lower Side
Type 1	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	98% Category I	98% Category I, 98% Category II, 100% Category II
Type 2	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	98% Category I	98% Category I, 98% Category II, 100% Category II
Type 3	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	98% Category I, 98% Category II	98% Category I, 98% Category II, 100% Category II
Type 4	D ₁ /24 minimum, not less than 75 mm (3") if rock fragments, use D ₁ /12 minimum, not less than 150 mm (6")	No compaction required, except for 98% Category I, use 98% Category II	No compaction required, except for 98% Category I, use 98% Category II

TOWN OF ZEBULON
 STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)
 SHEET # 36 OF 3
 DATE: JULY 2010

TOWN OF ZEBULON
 STD. M.H. J.B. VARIABLE LENGTH
 SHEET # 37 OF 3
 DATE: JULY 2010

TOWN OF ZEBULON
 STANDARD MANHOLE & RING
 SHEET # 37 OF 3
 DATE: JULY 2010

TOWN OF ZEBULON
 STD. MULTIPLE 2' x 3' CATCH BASIN DETAIL
 SHEET # 38 OF 1
 DATE: JULY 2010

TOWN OF ZEBULON
 STD. 3' VARIABLE LENGTH PRECAST BOX WITH 2' x 3' C.B.
 SHEET # 39 OF 2
 DATE: JULY 2010

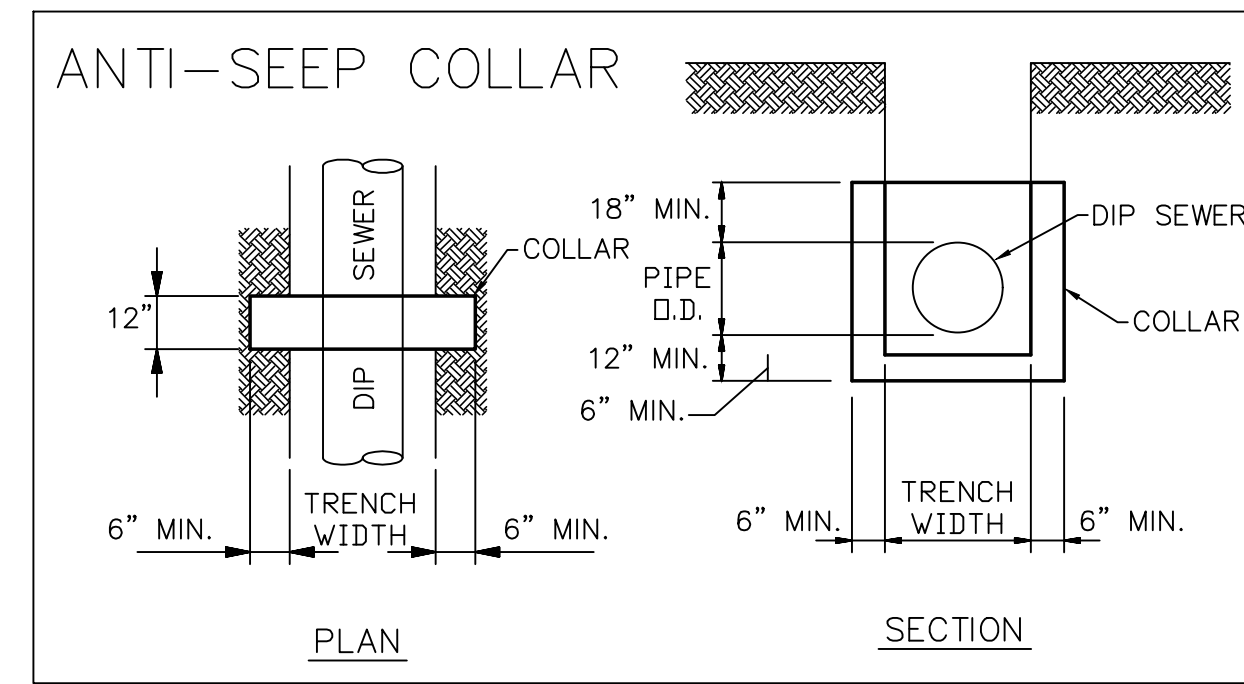
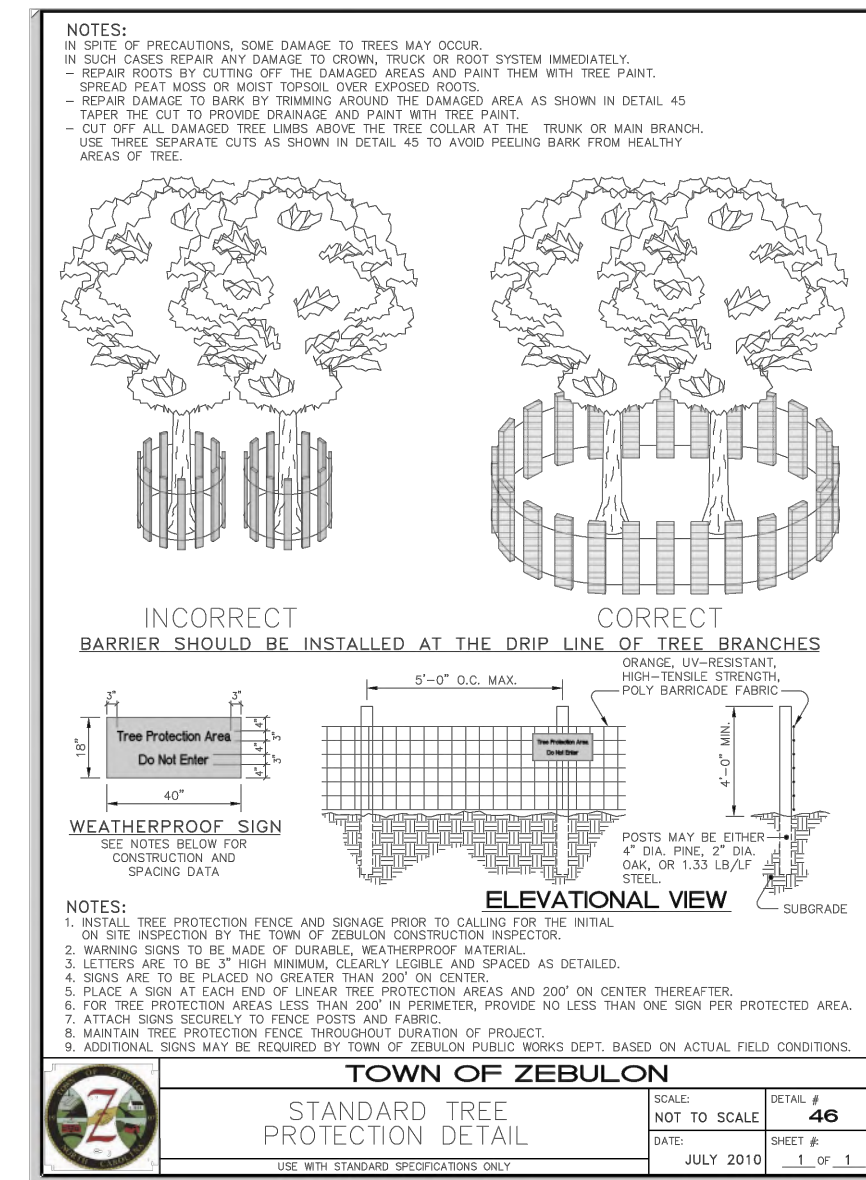
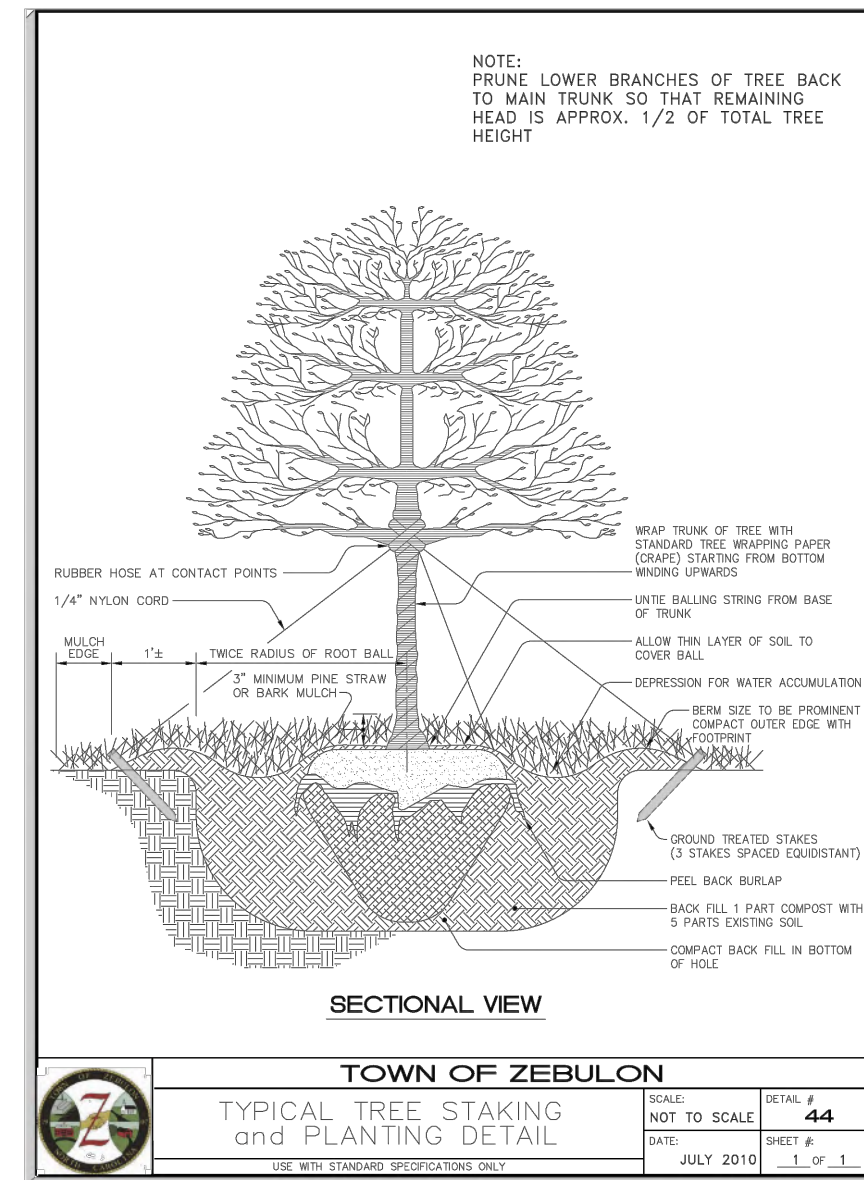
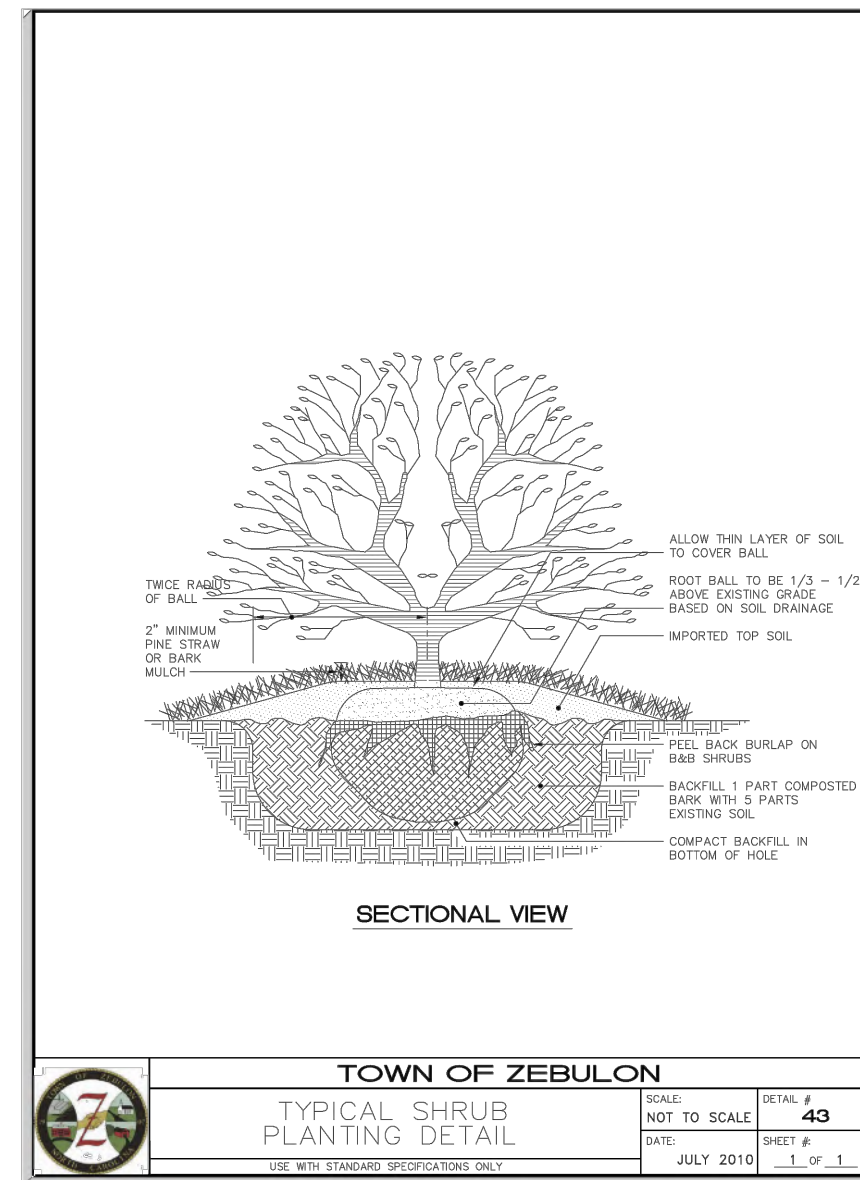
TOWN OF ZEBULON
 STD. 3' VARIABLE LENGTH PRECAST BOX WITH 2' x 3' C.B.
 SHEET # 39 OF 2
 DATE: JULY 2010

TOWN OF ZEBULON
 PRECAST CONCRETE MANHOLE
 SHEET # 40 OF 1
 DATE: JULY 2010

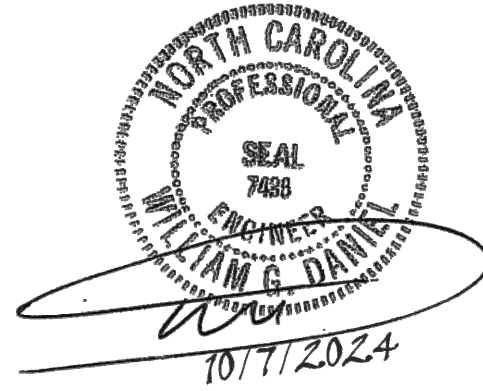
TOWN OF ZEBULON
 PRECAST CONCRETE MANHOLE
 SHEET # 41 OF 1
 DATE: JULY 2010

Project
 Clifton Grove
 Details
 Date
 February 15, 2022
 Scale
 None
 Sheet
 CS-40

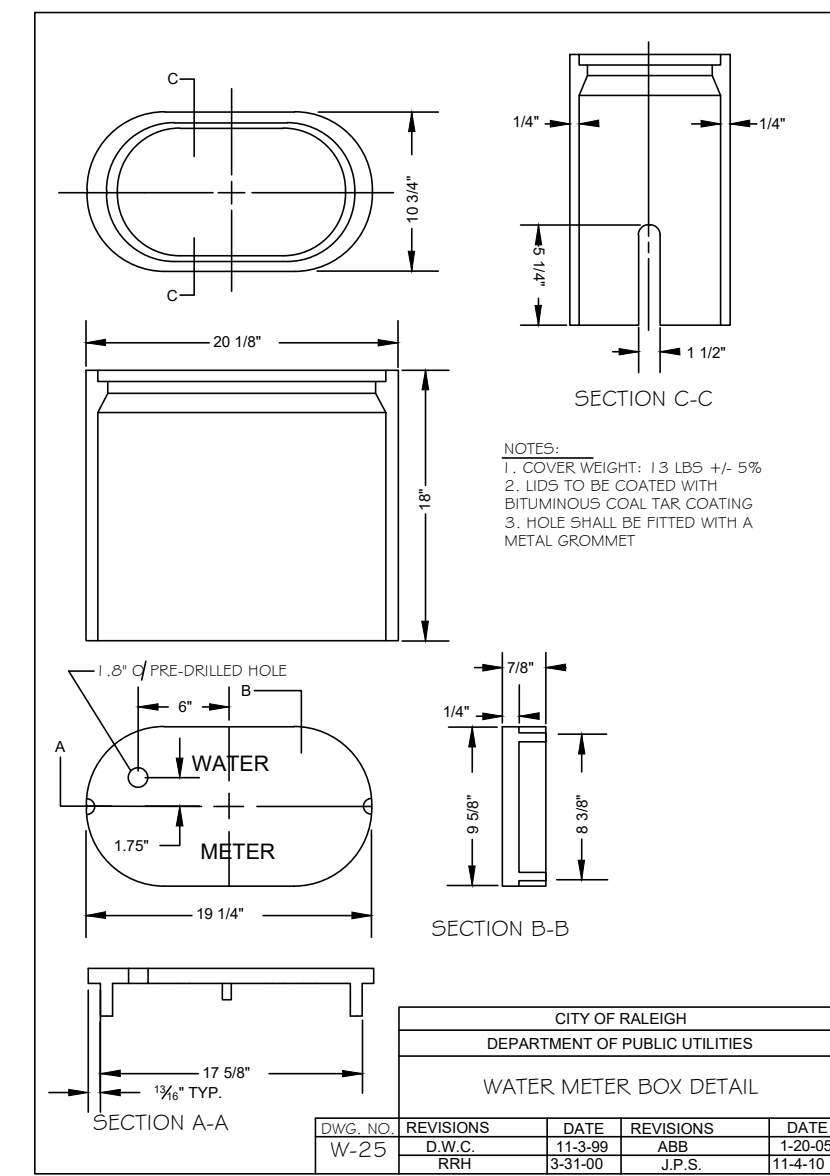
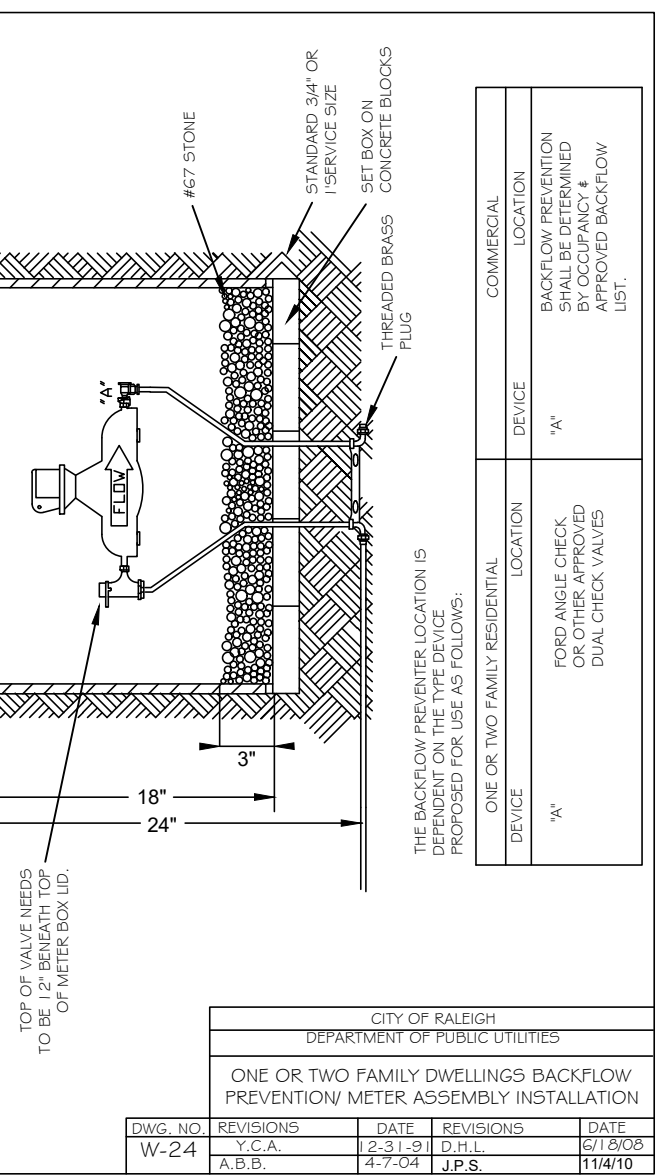
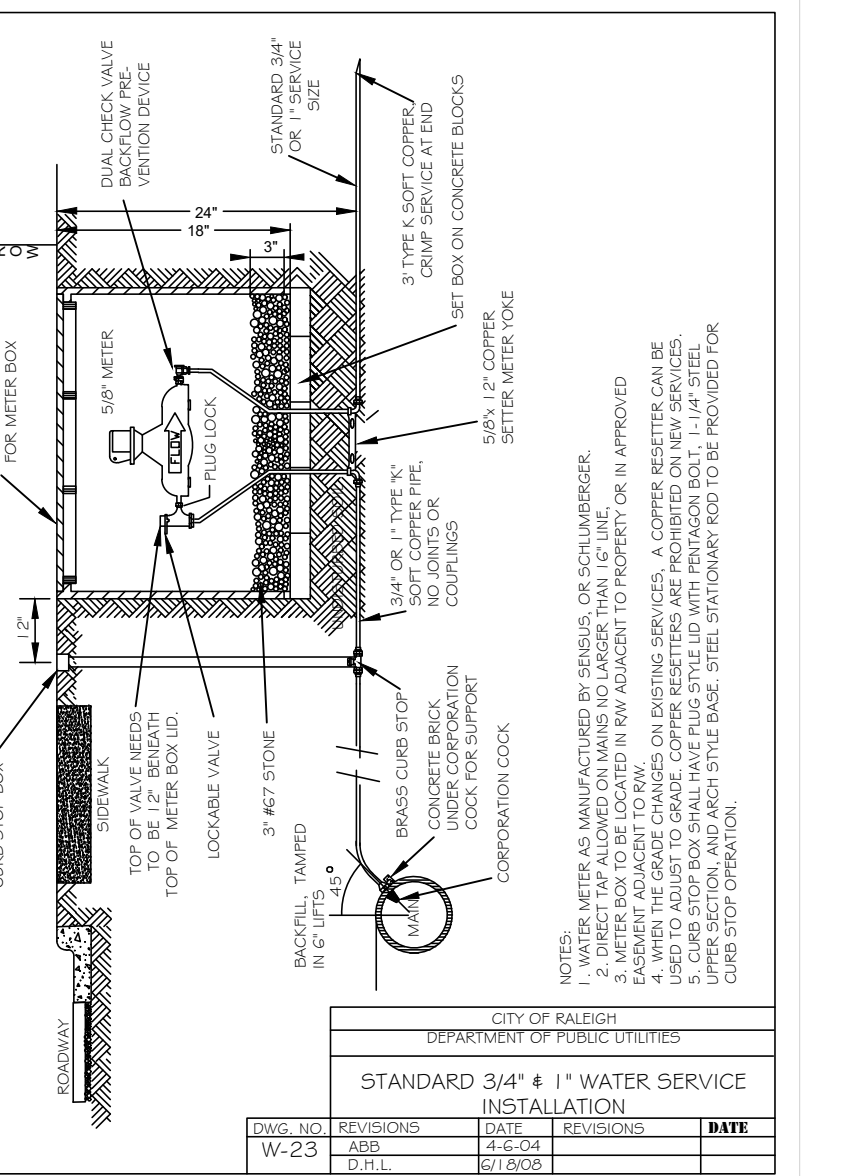
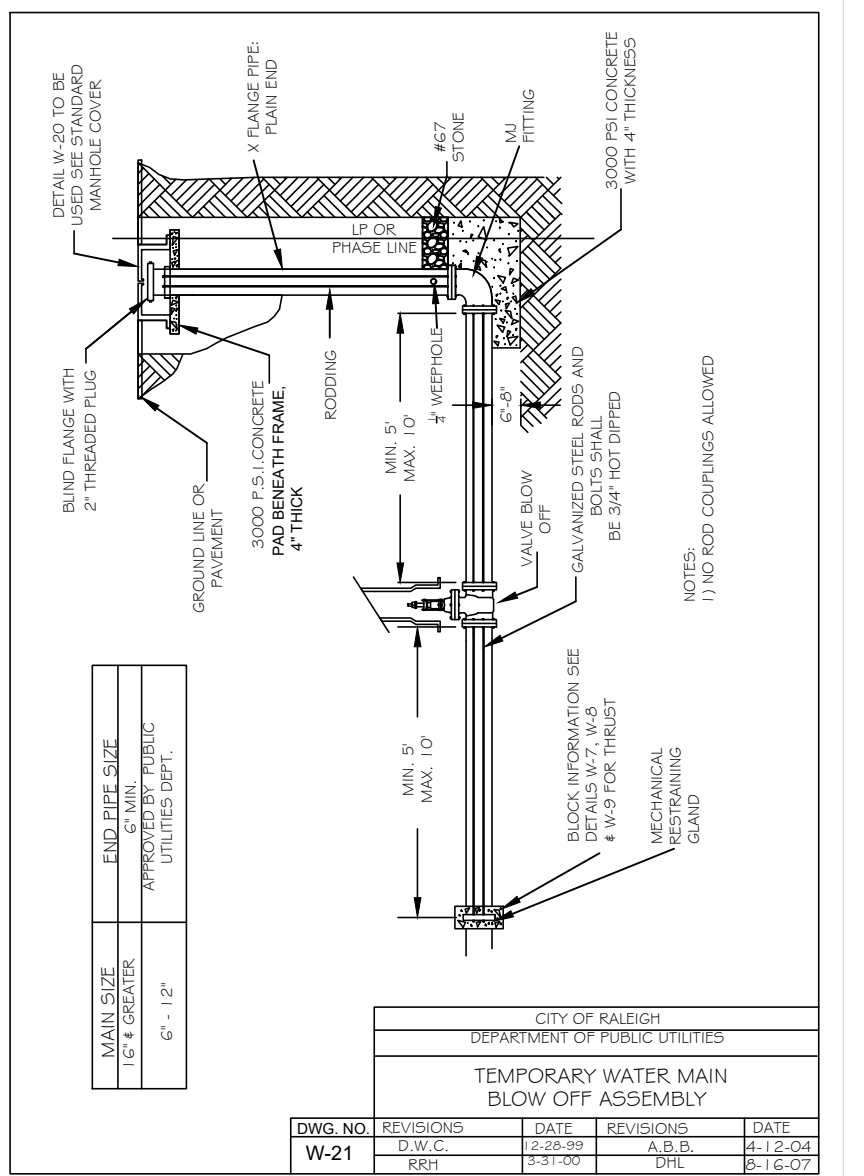
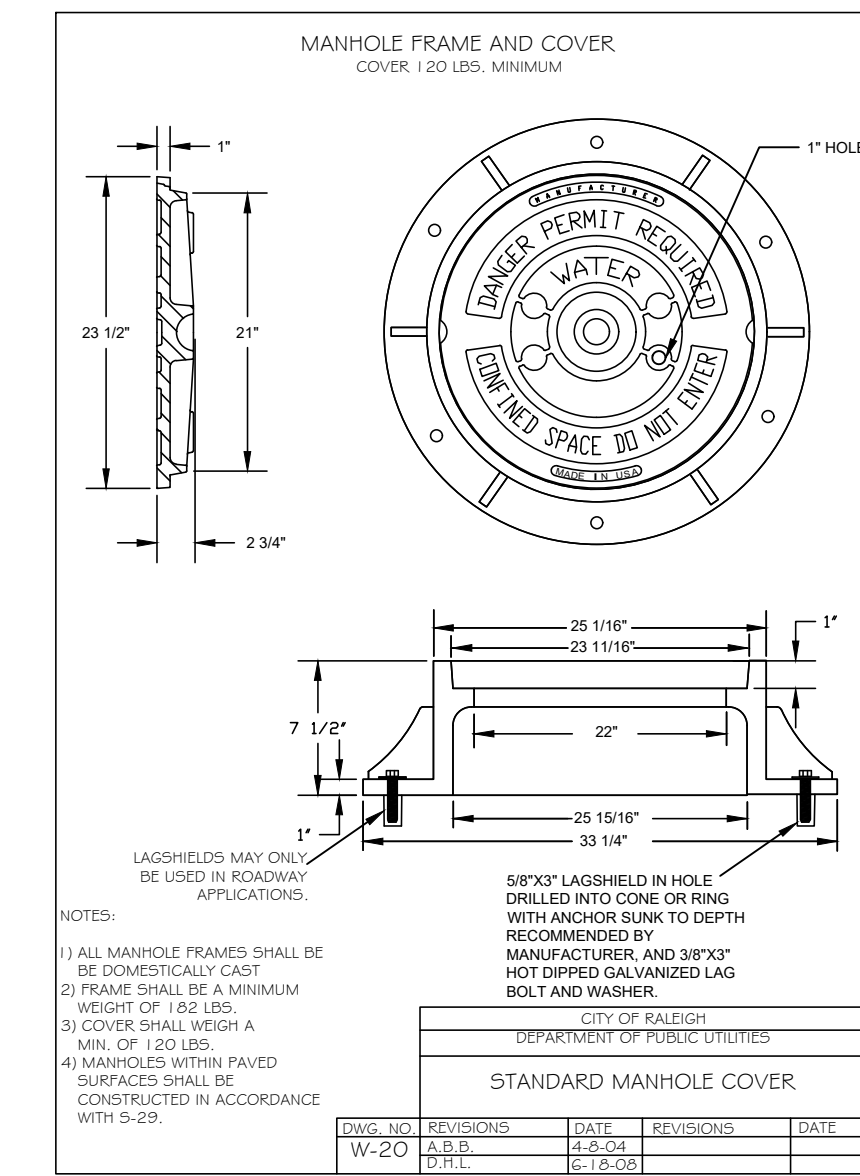
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- A. Anti-seep Collars: Provide anti-seep collars to prevent groundwater flow along pipe in wetlands as indicated on the Drawings. Use select clay material for collars. Collars shall extend past trench walls and bear against undisturbed soils. Dimension of collars shall be as indicated on the Drawings. Do not place stone in area of anti-seep collars.
- B. Clay Collar: Provide clay of medium to high plasticity with a soil classification of CL or CH and a permeability of 10-5 cm / second. Place clay in 6-inch lifts and compact by use of a mechanical hydraulic trowel to 95 percent.



- Revisions**
- 07.13.22-06.12.23 Per City/Town 1st-5th review
 - 10.19.23 Per Wake Co review
 - 01.31.24 Per Wake Co review
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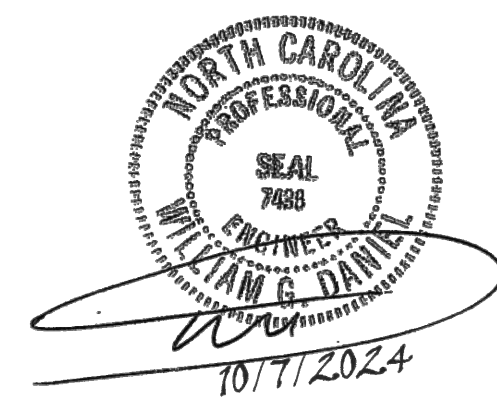
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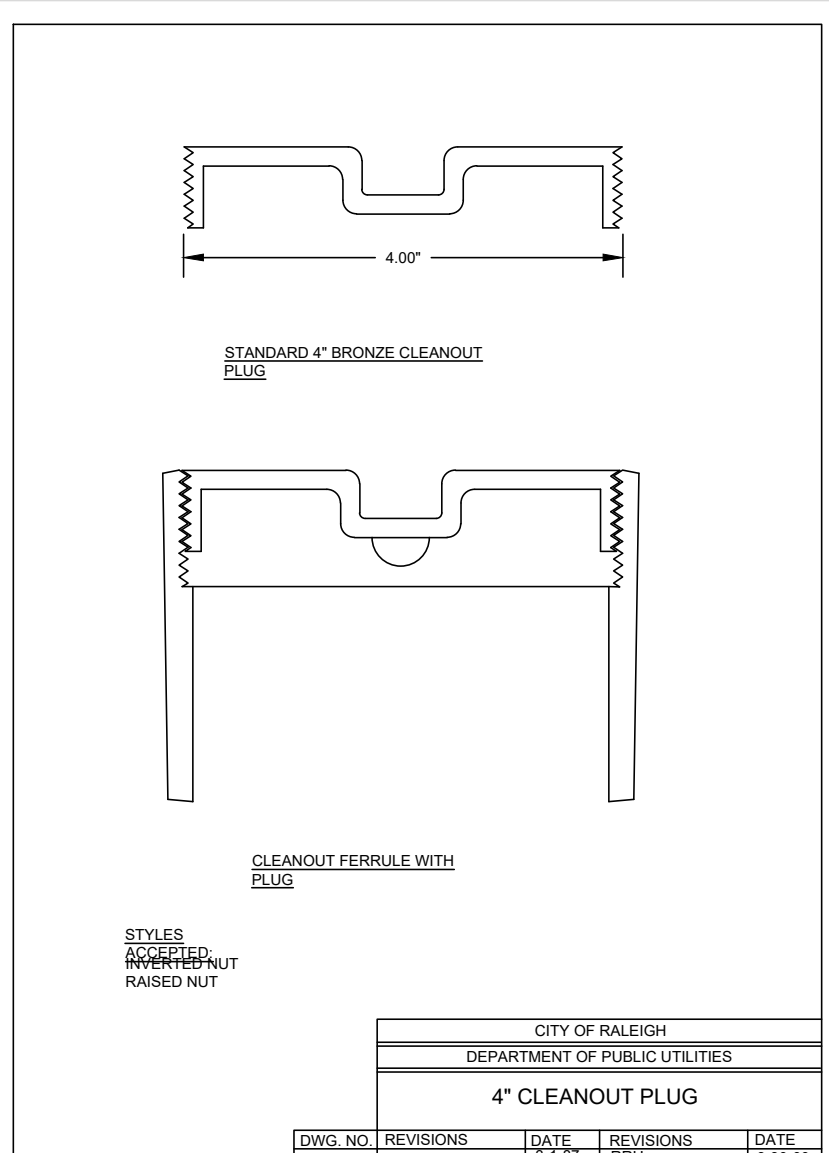
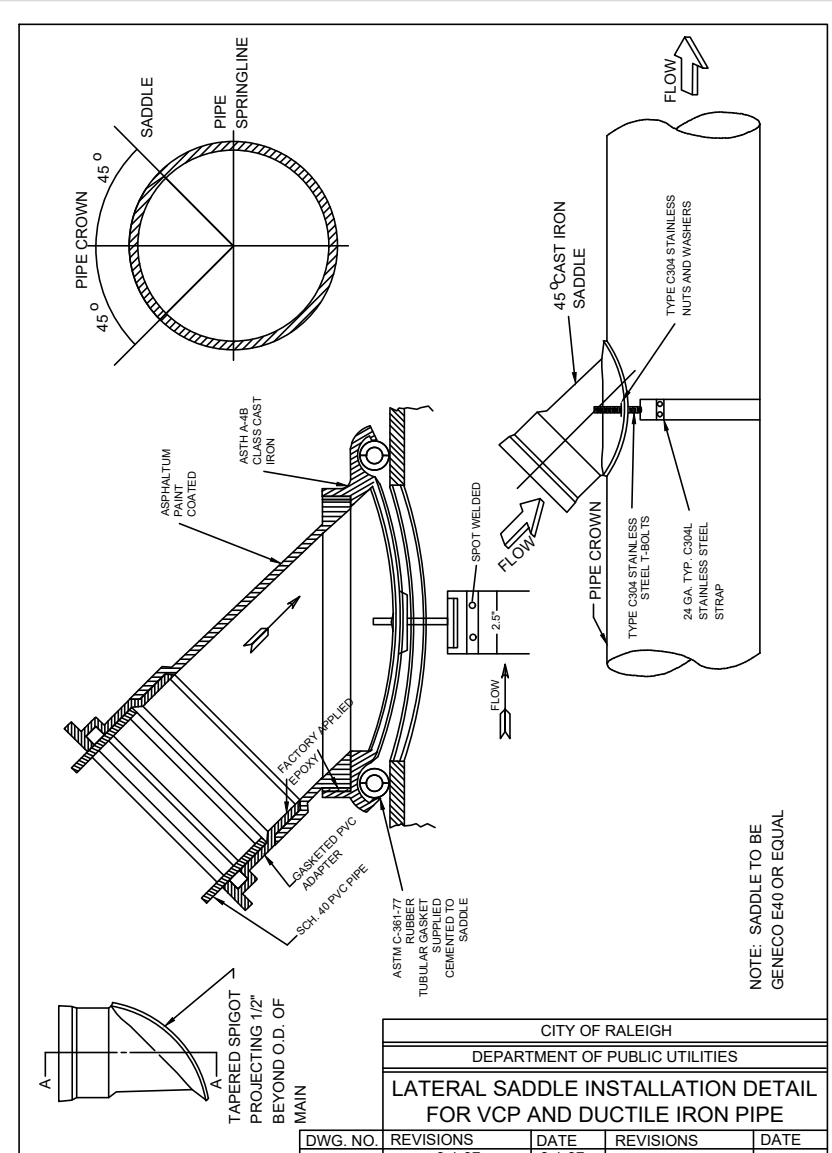
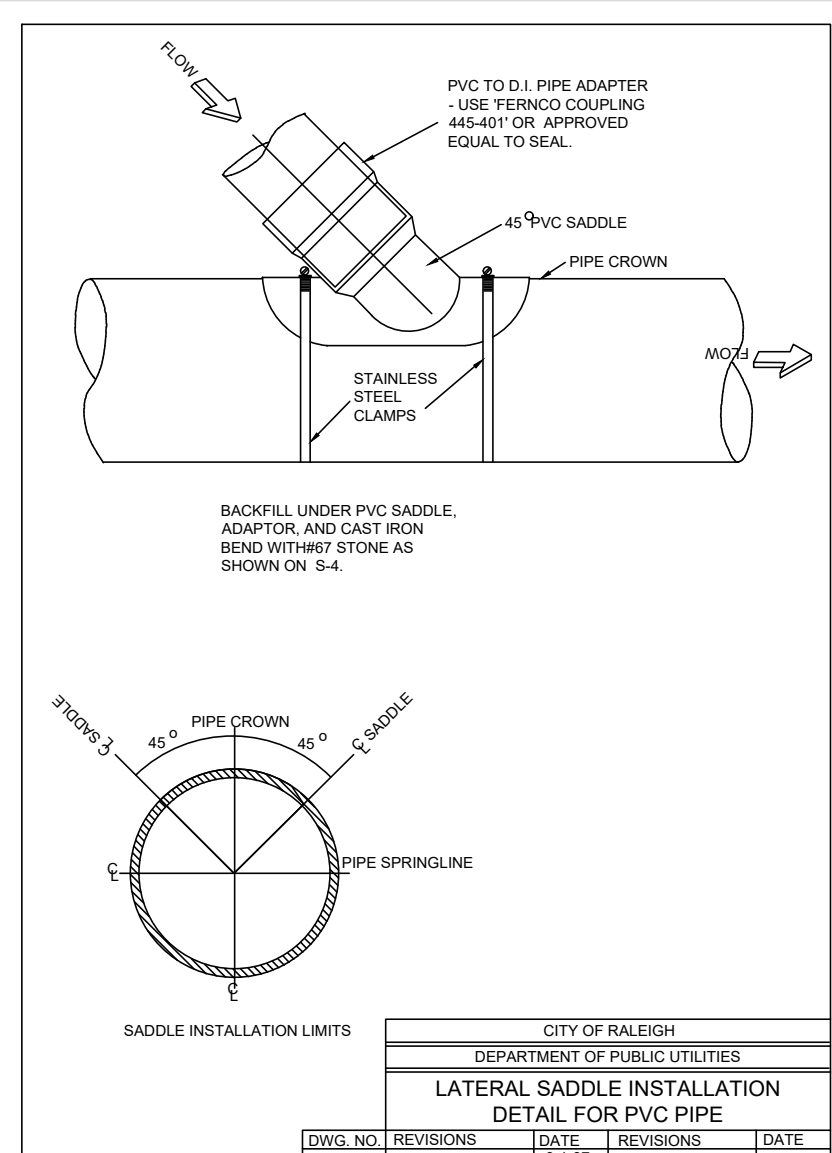
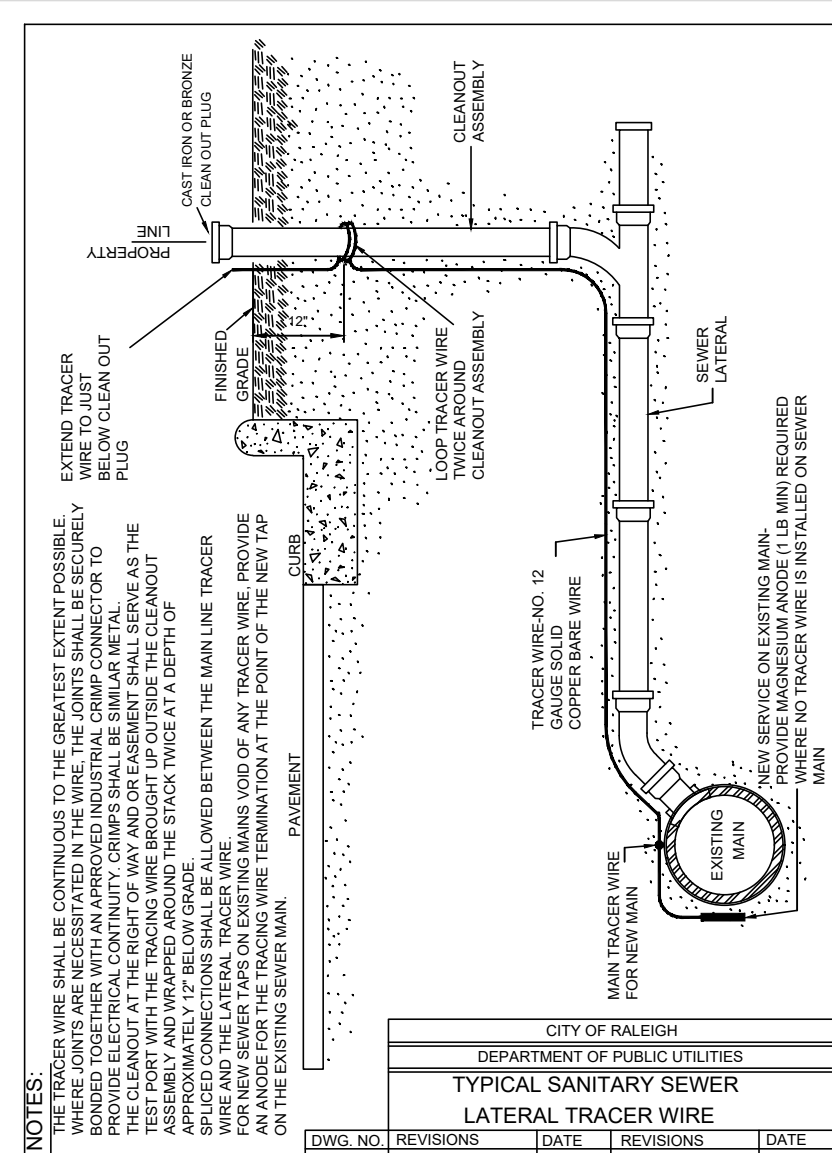
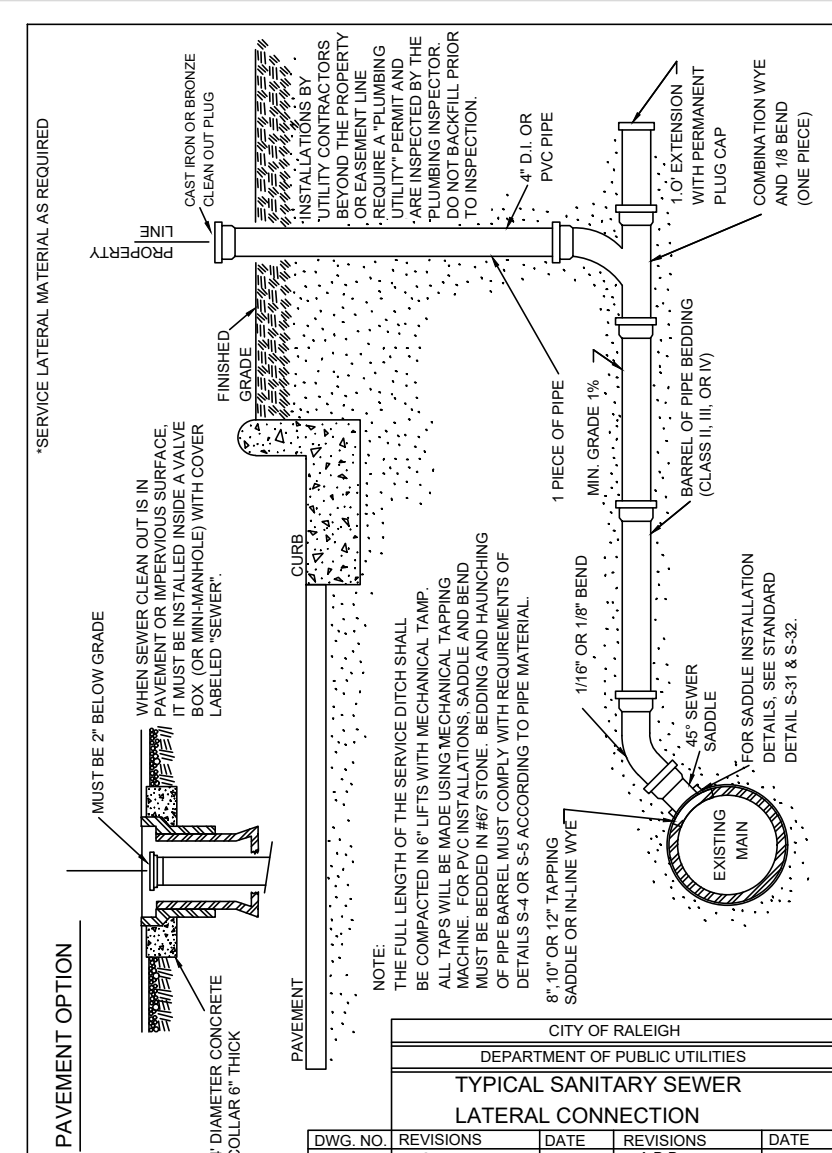
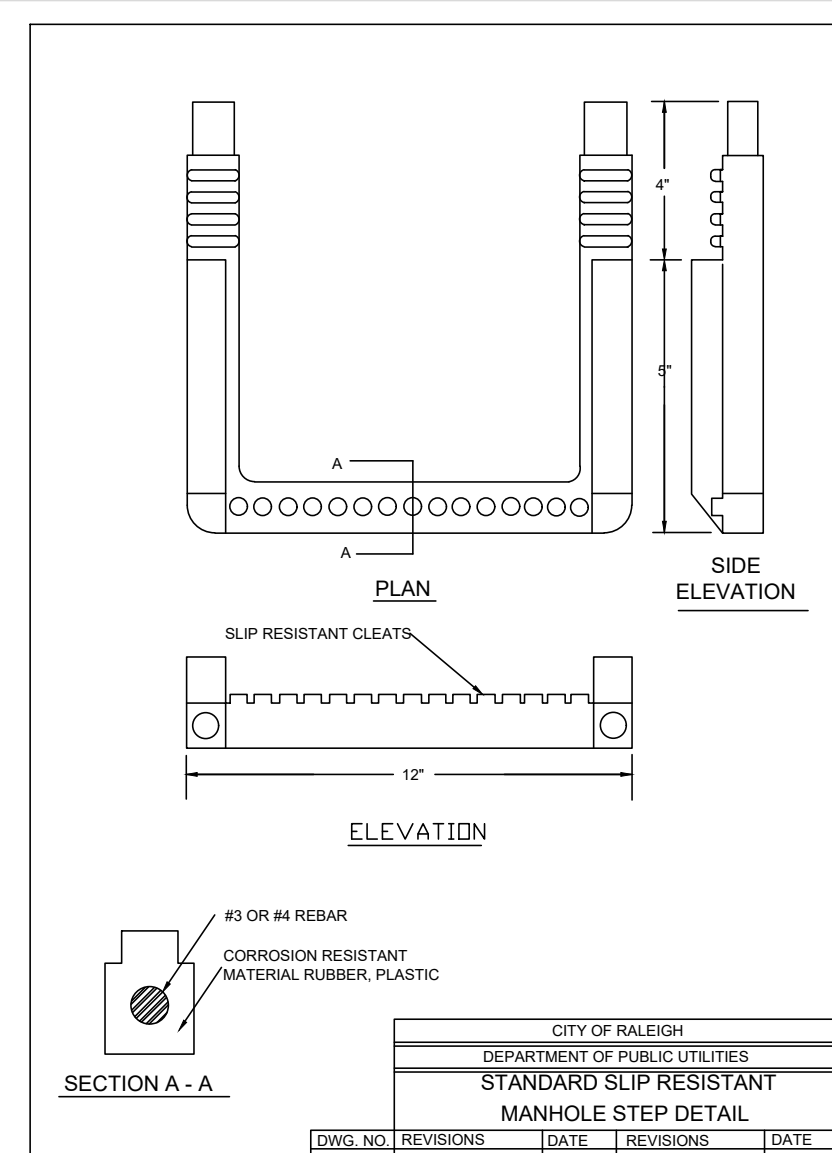
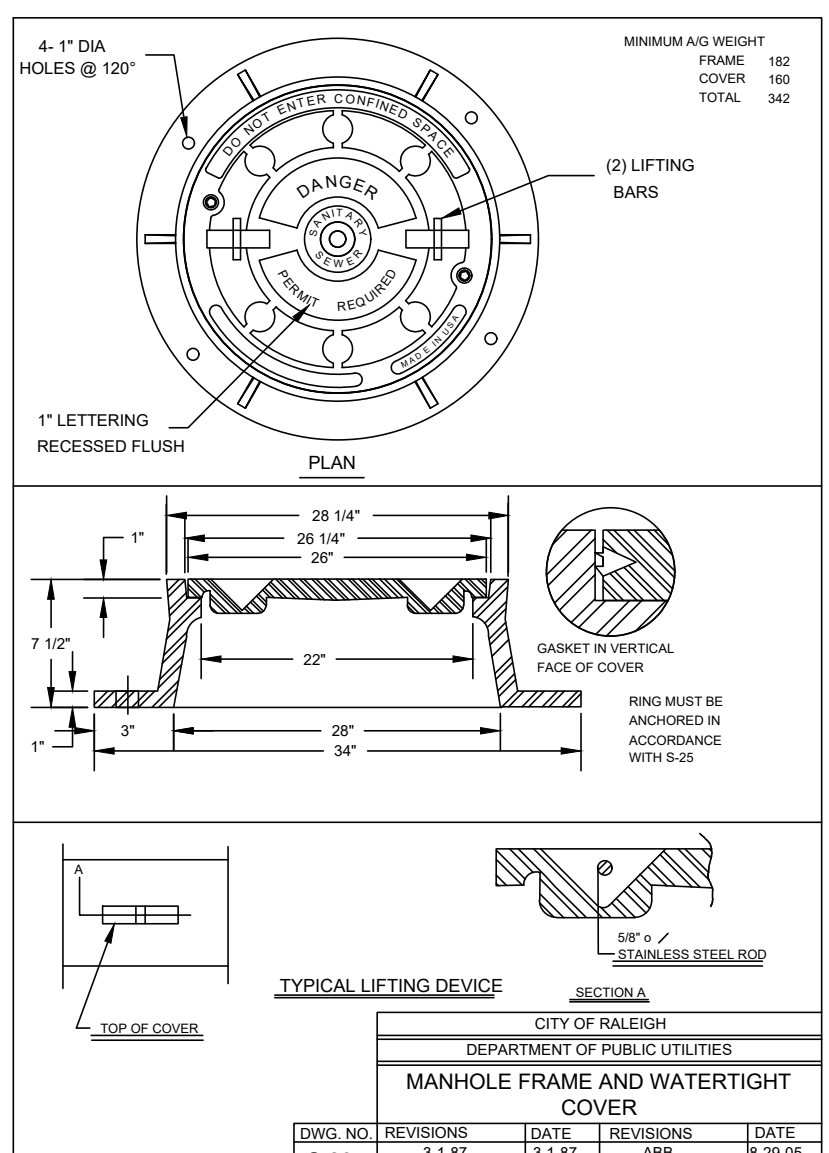
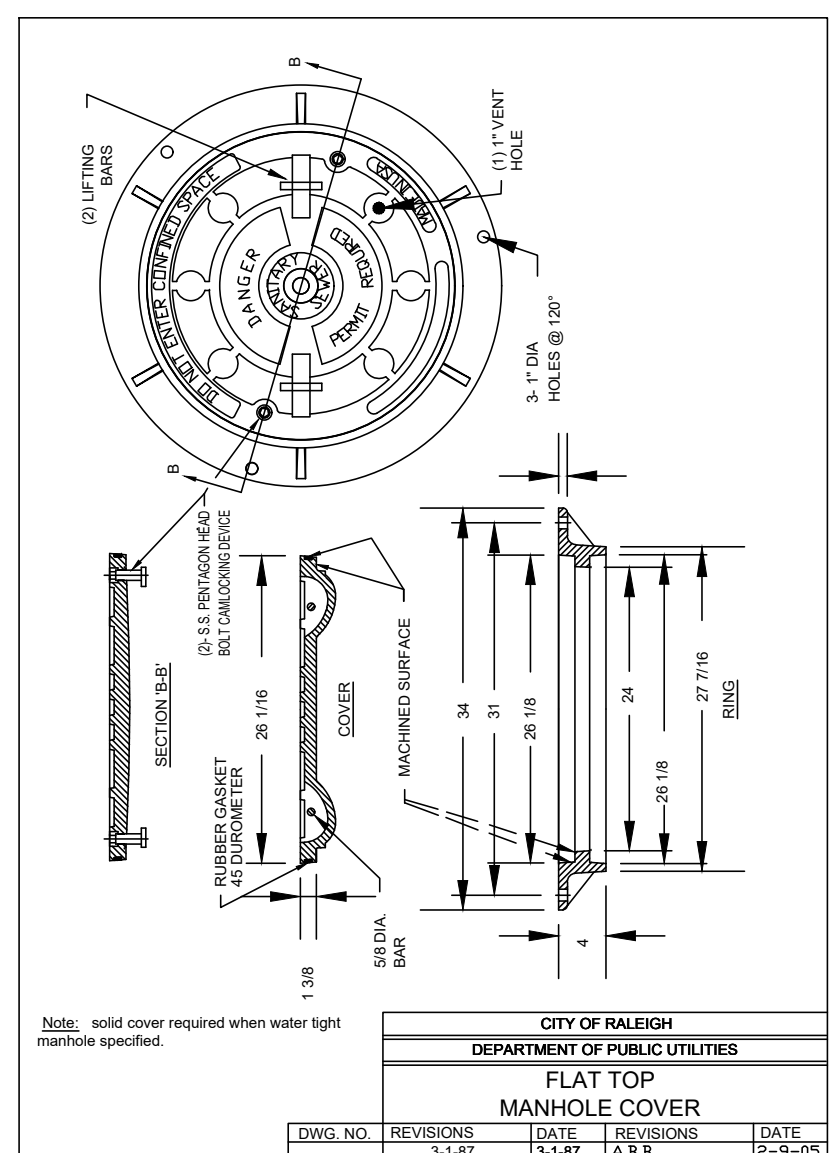
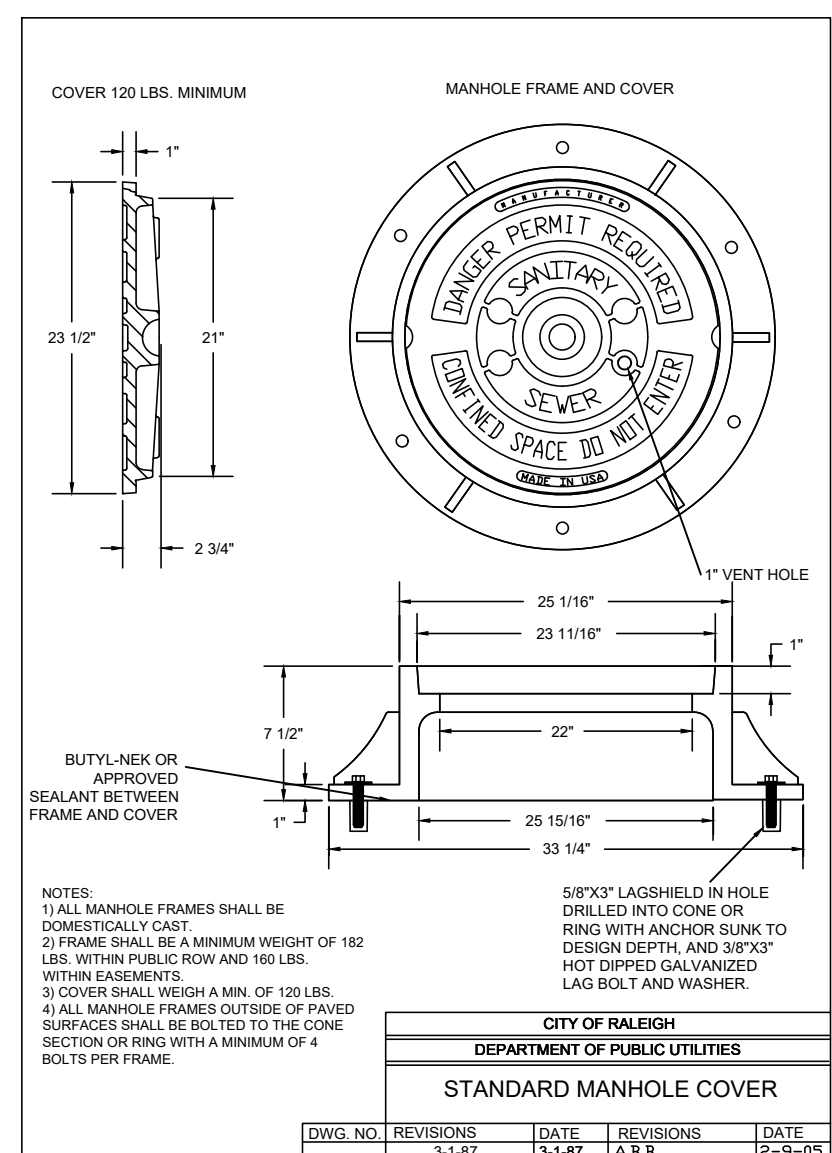
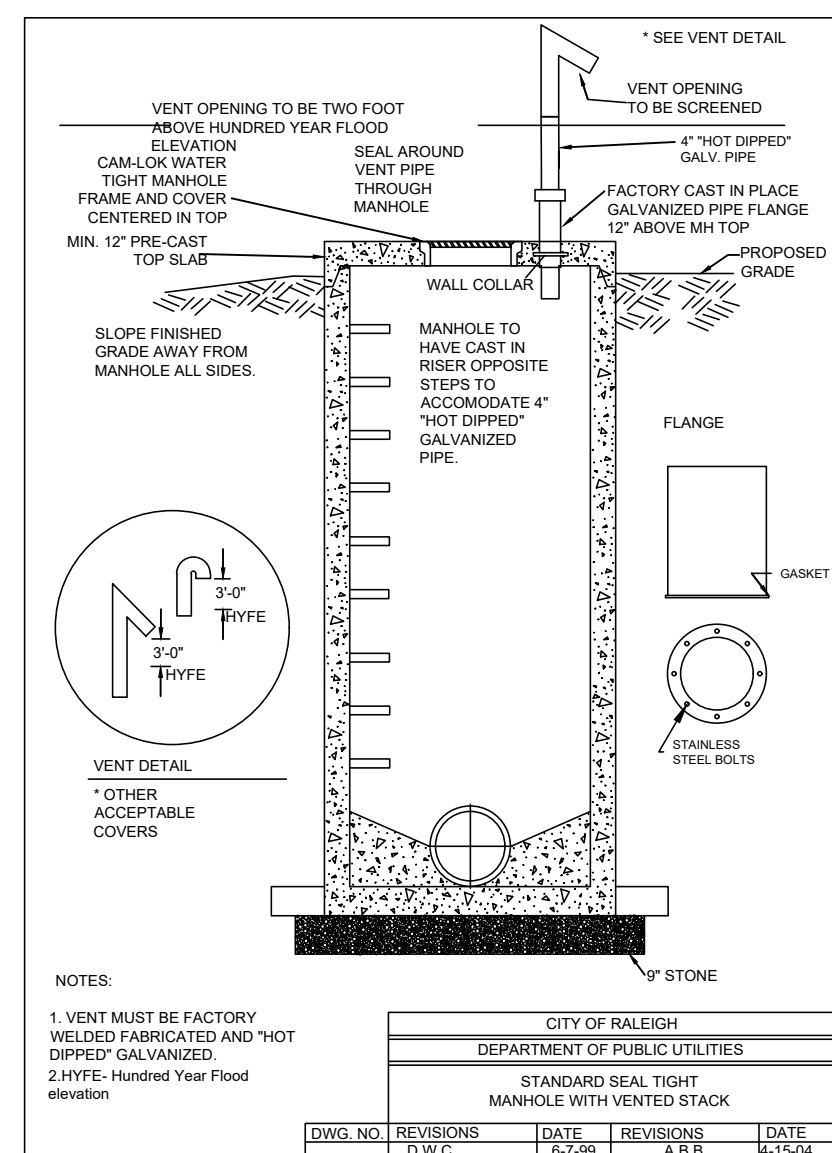
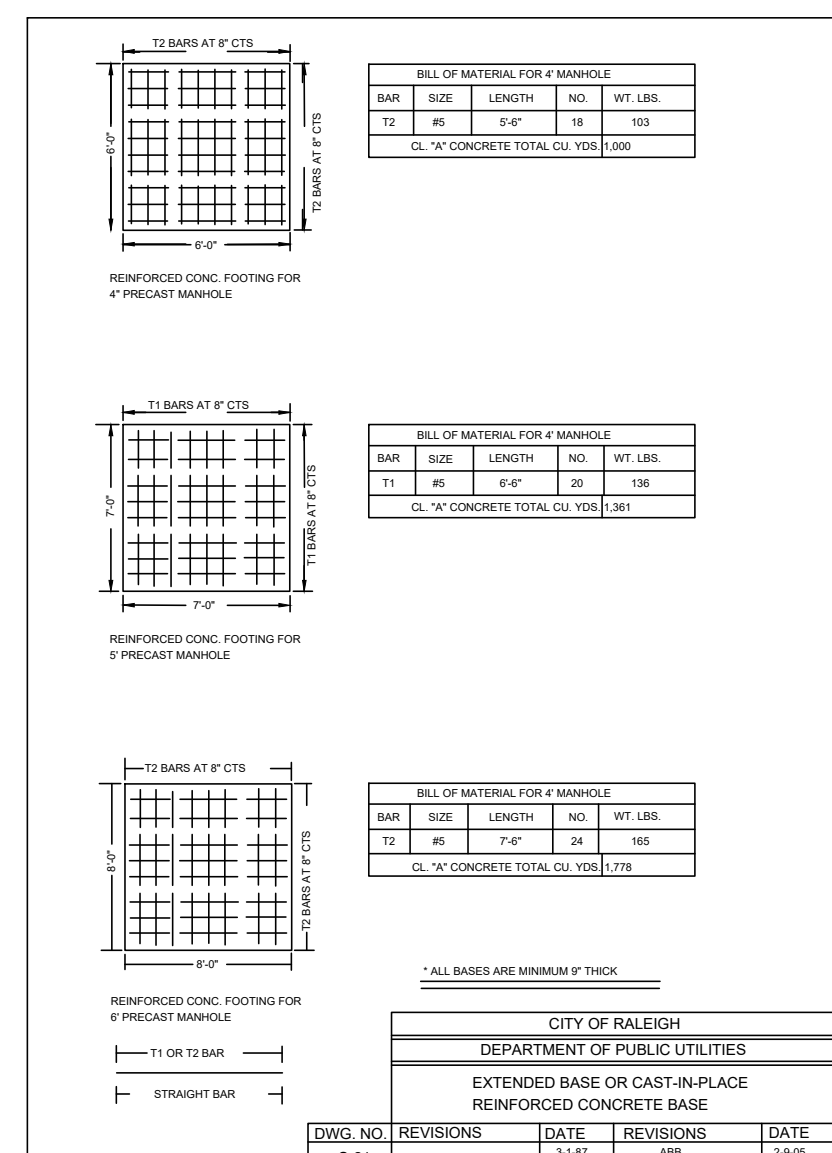
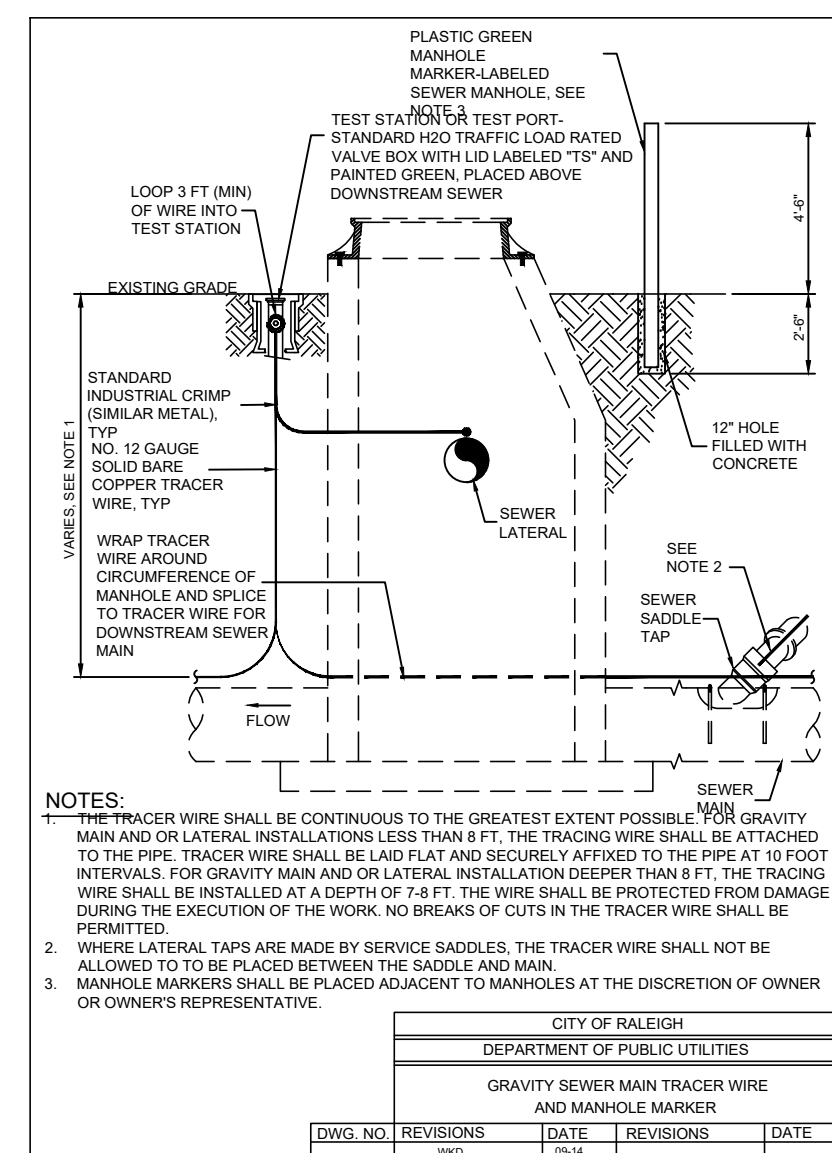
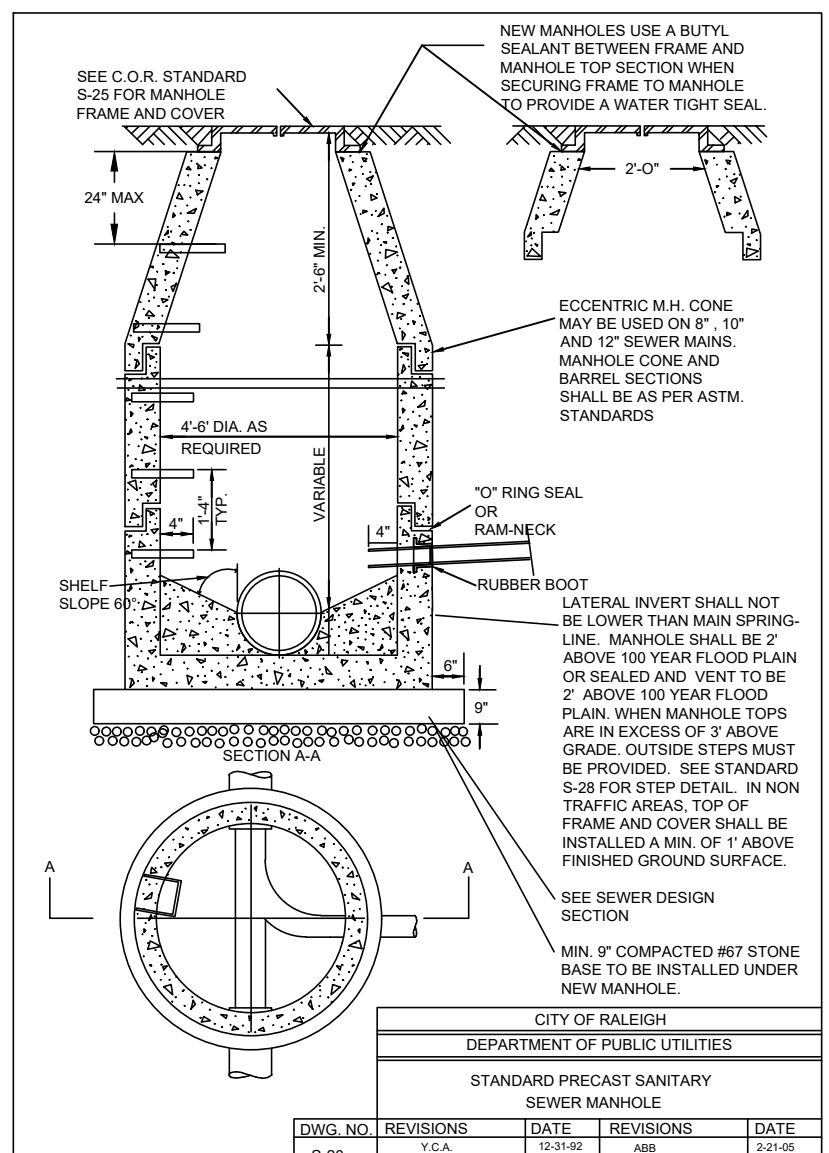
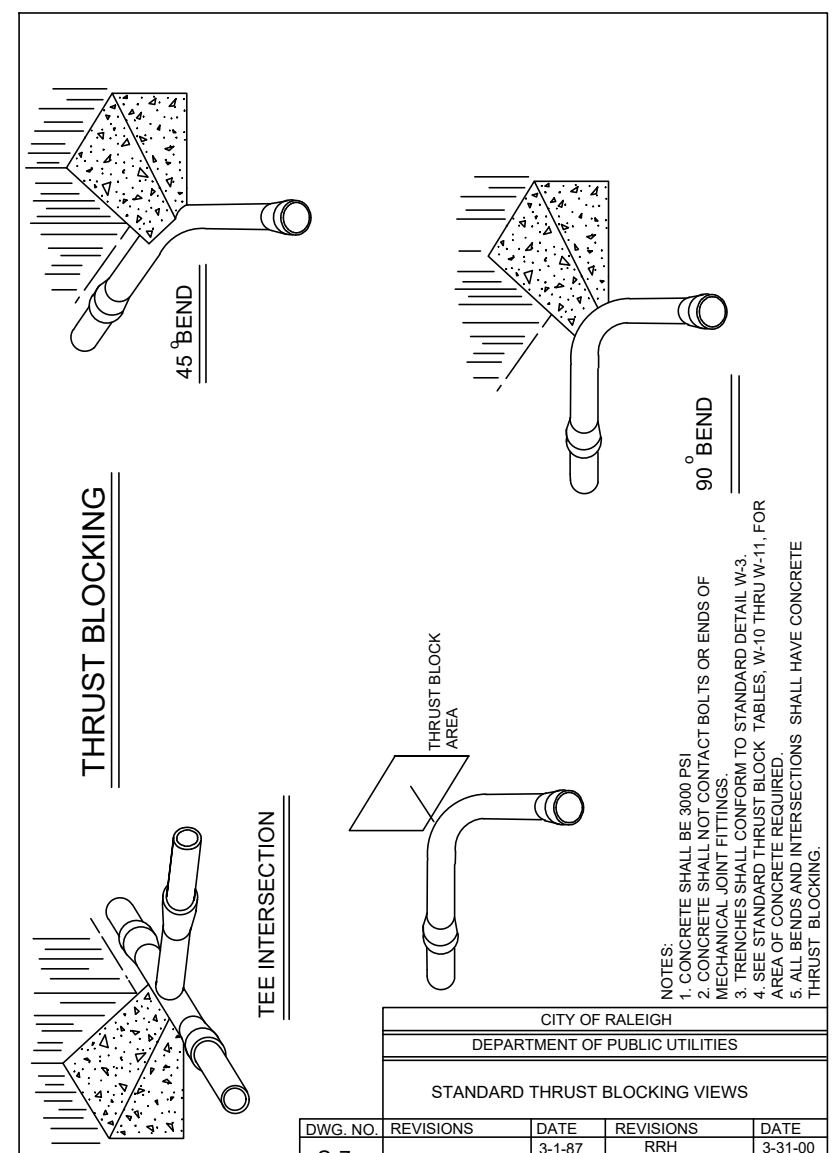
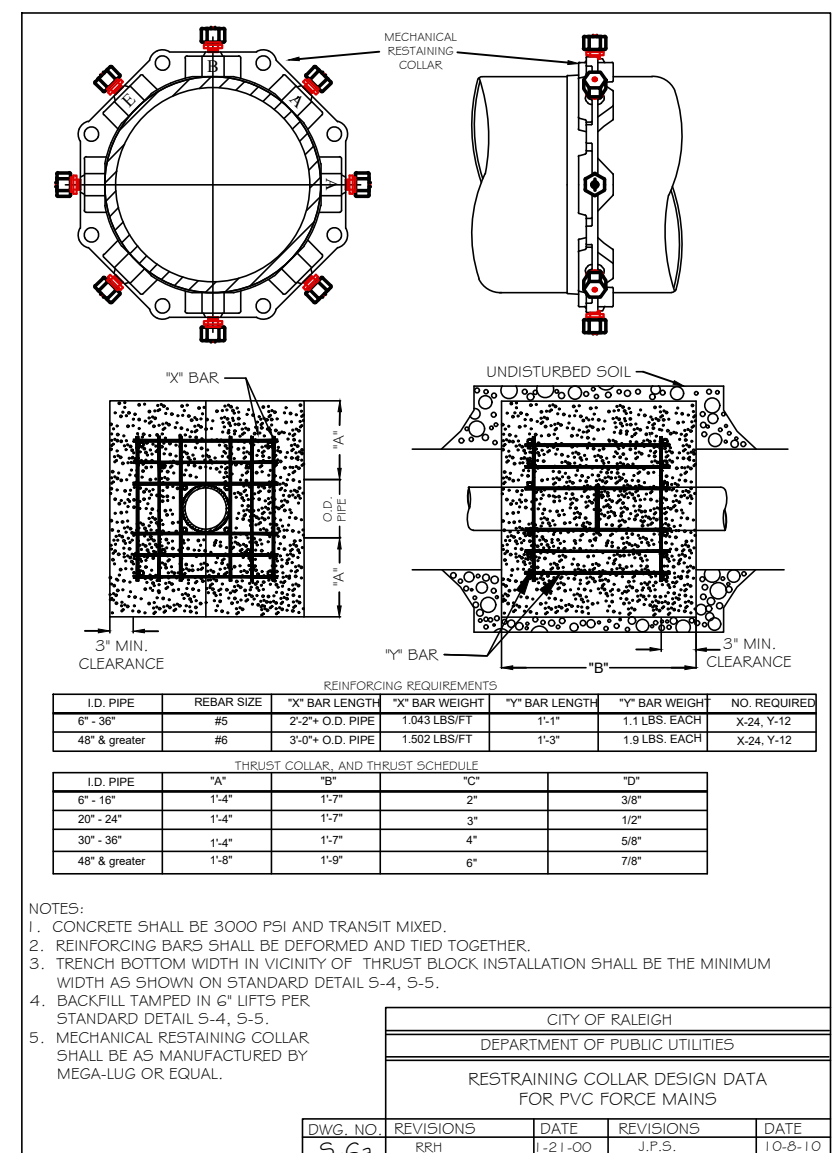
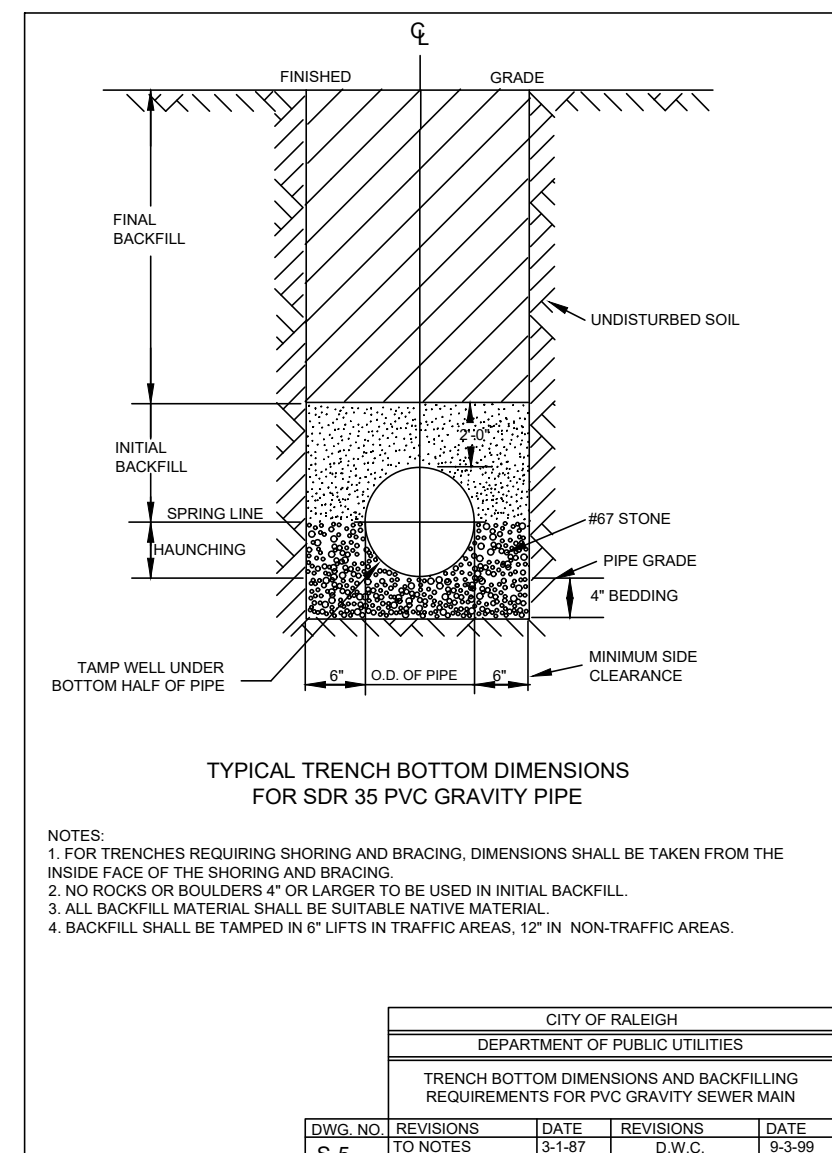
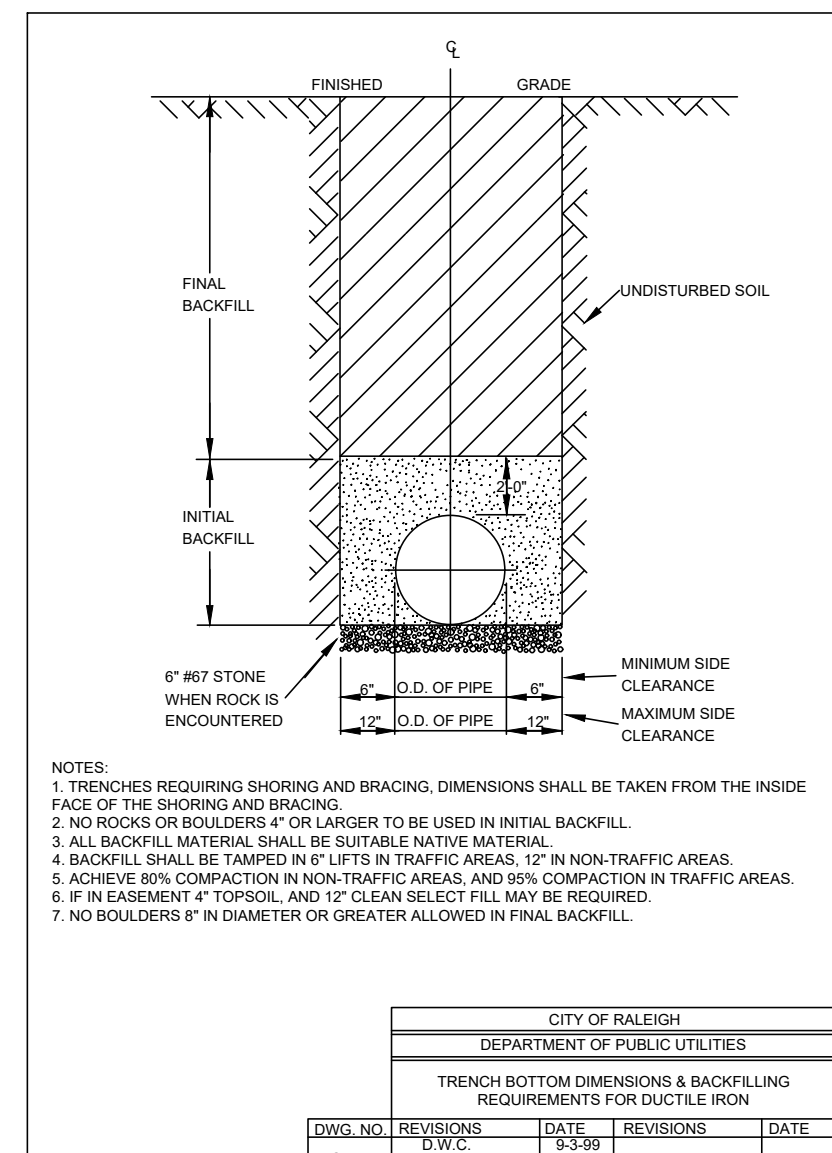
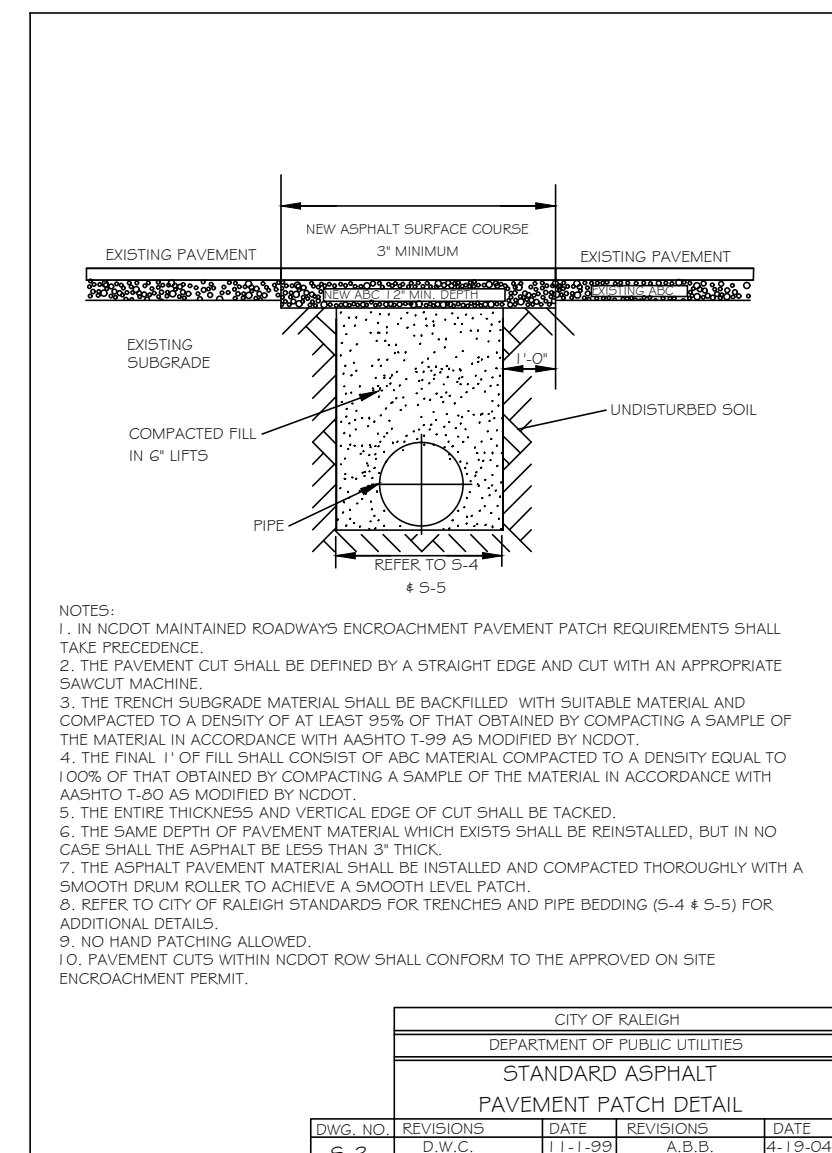
Date
February 15, 2022

Scale
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Sheet



Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
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Date
 February 15, 2022

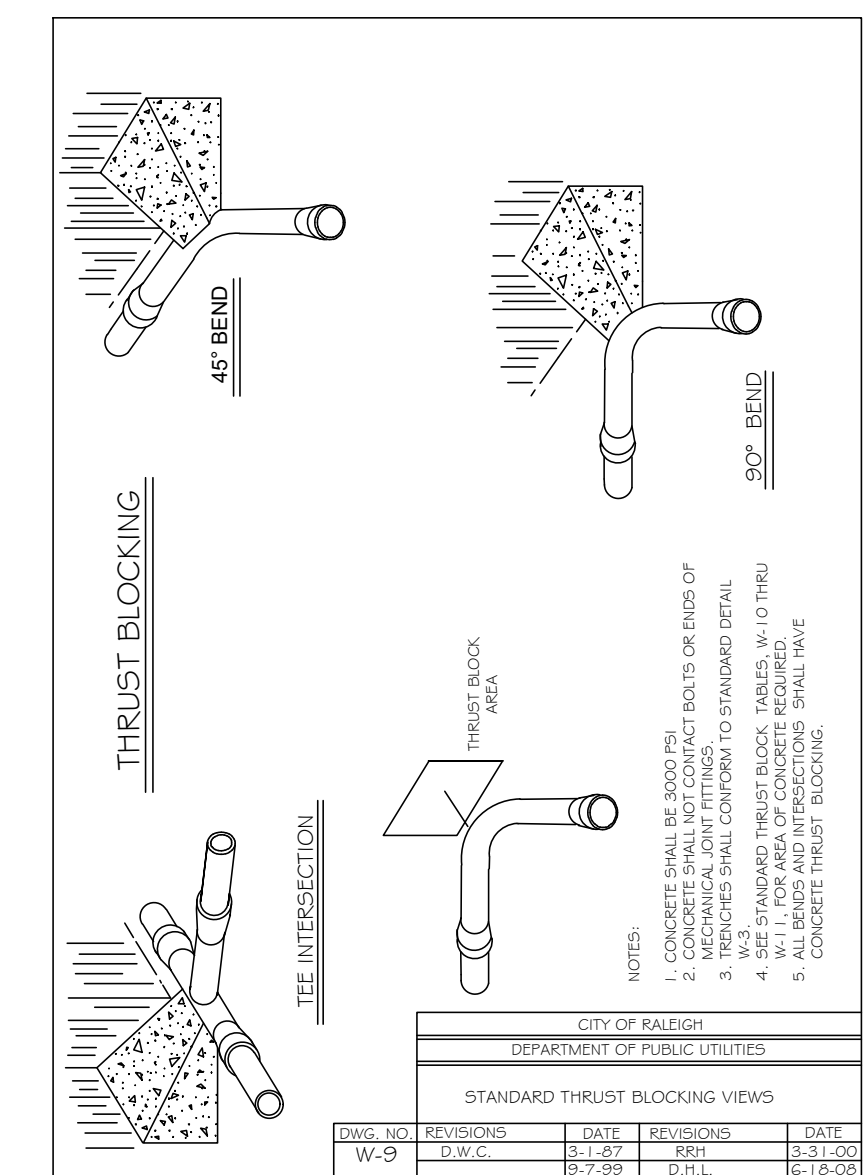
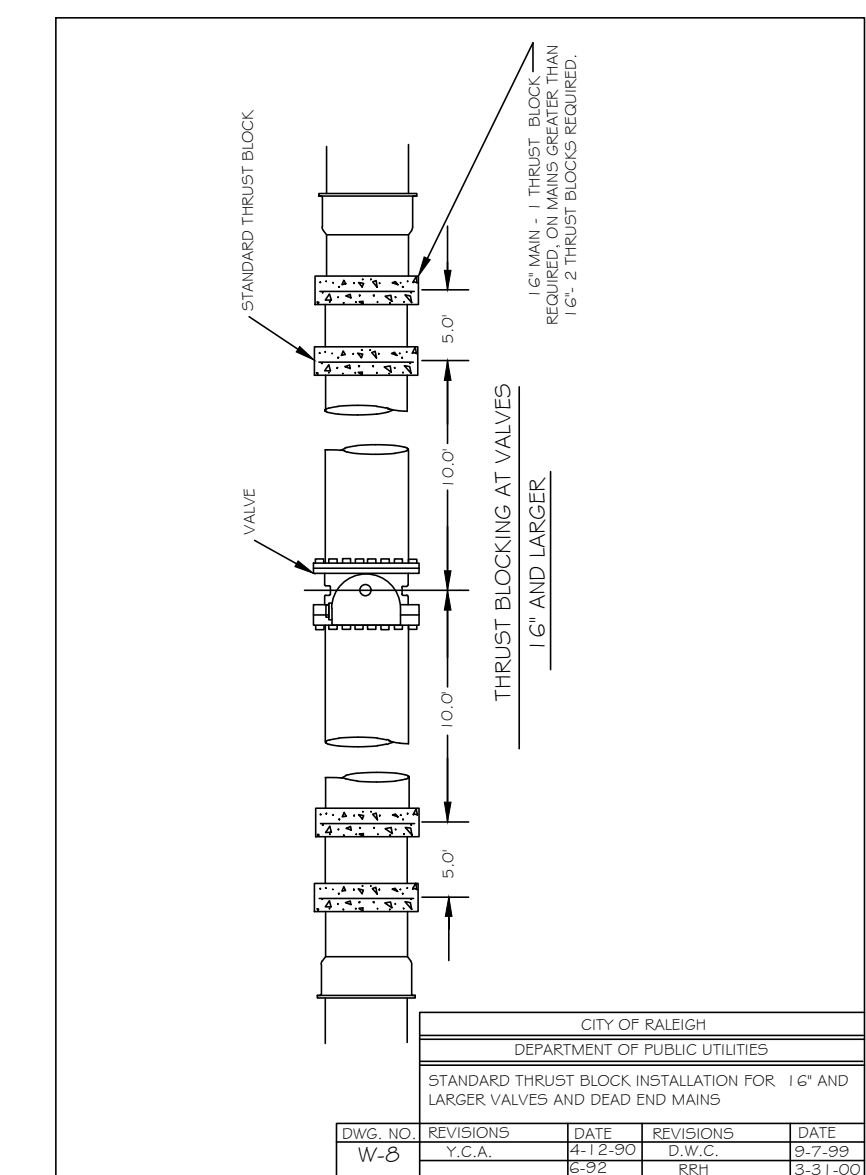
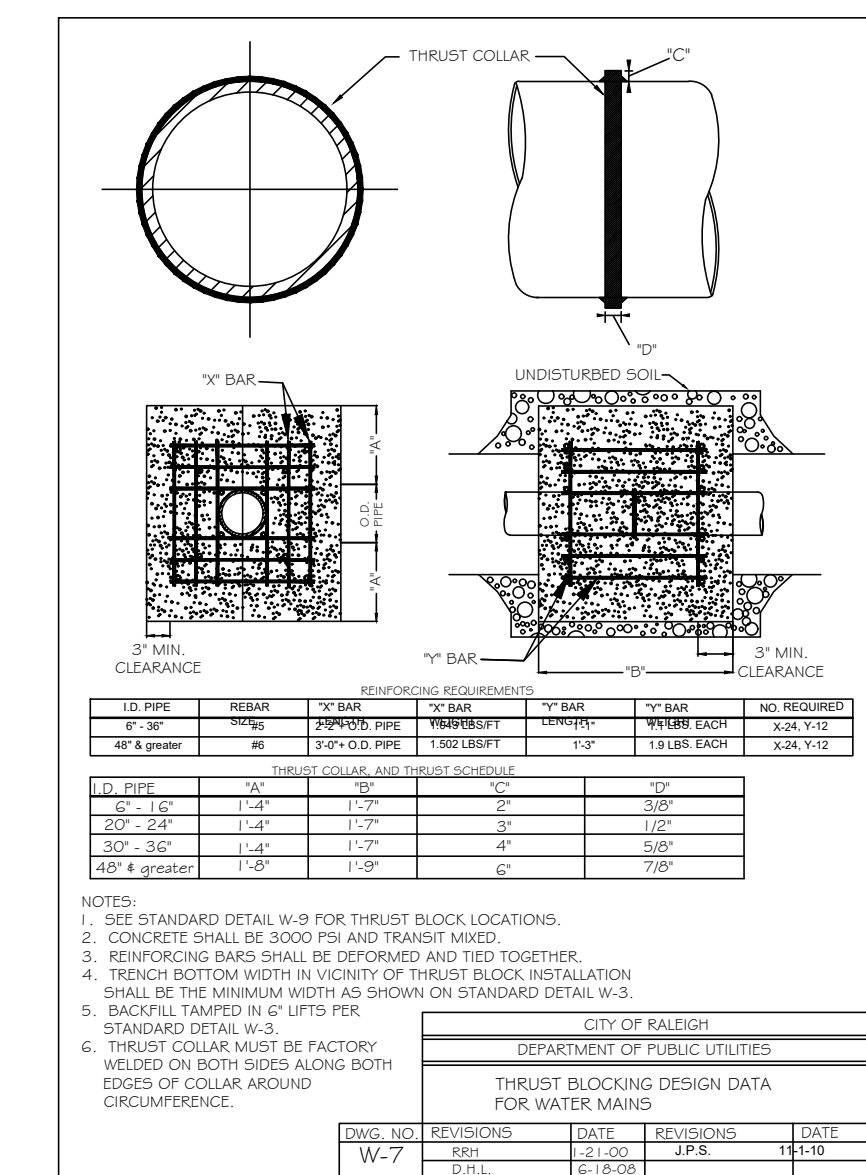
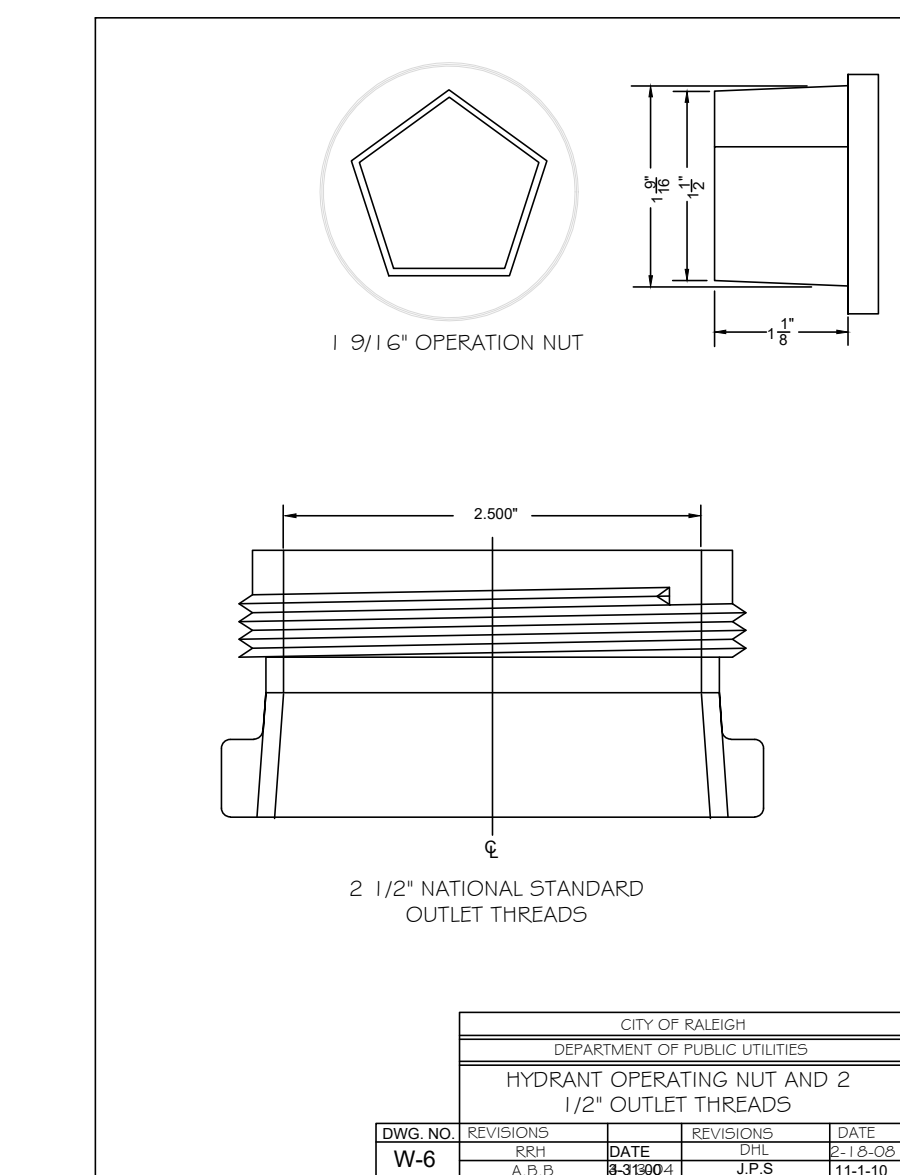
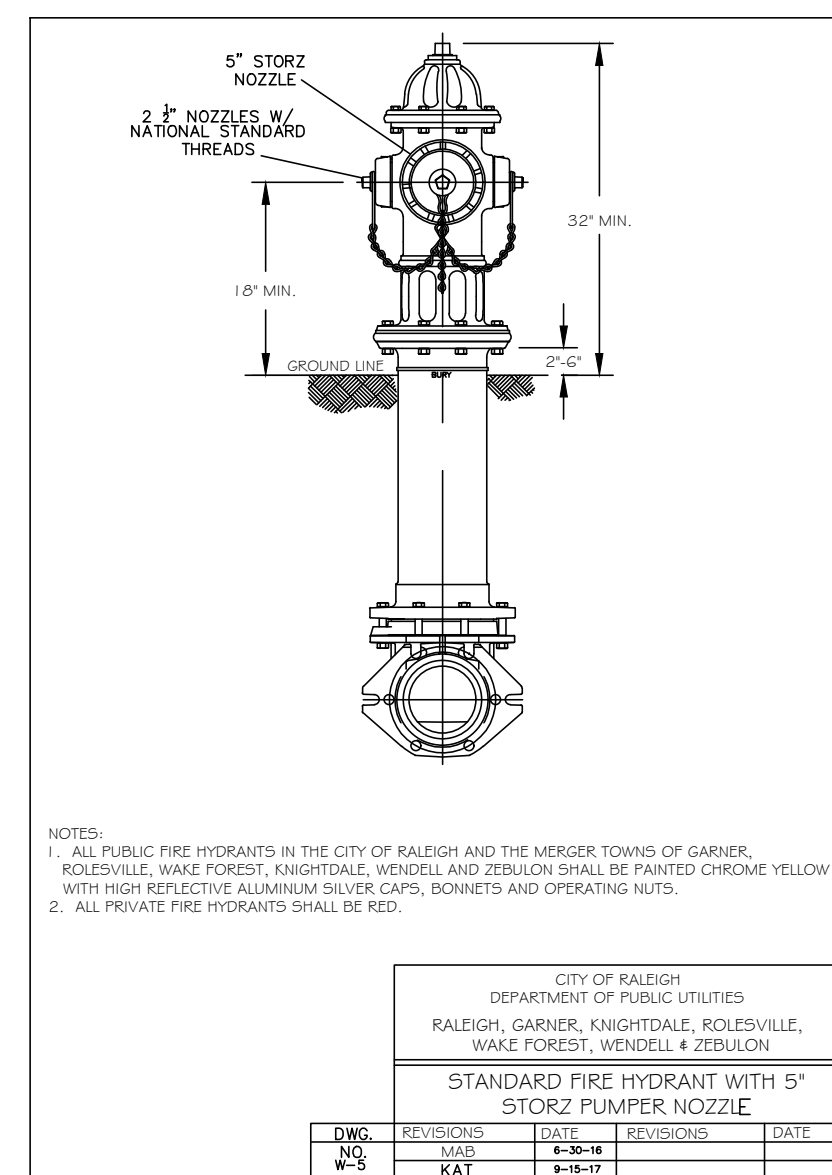
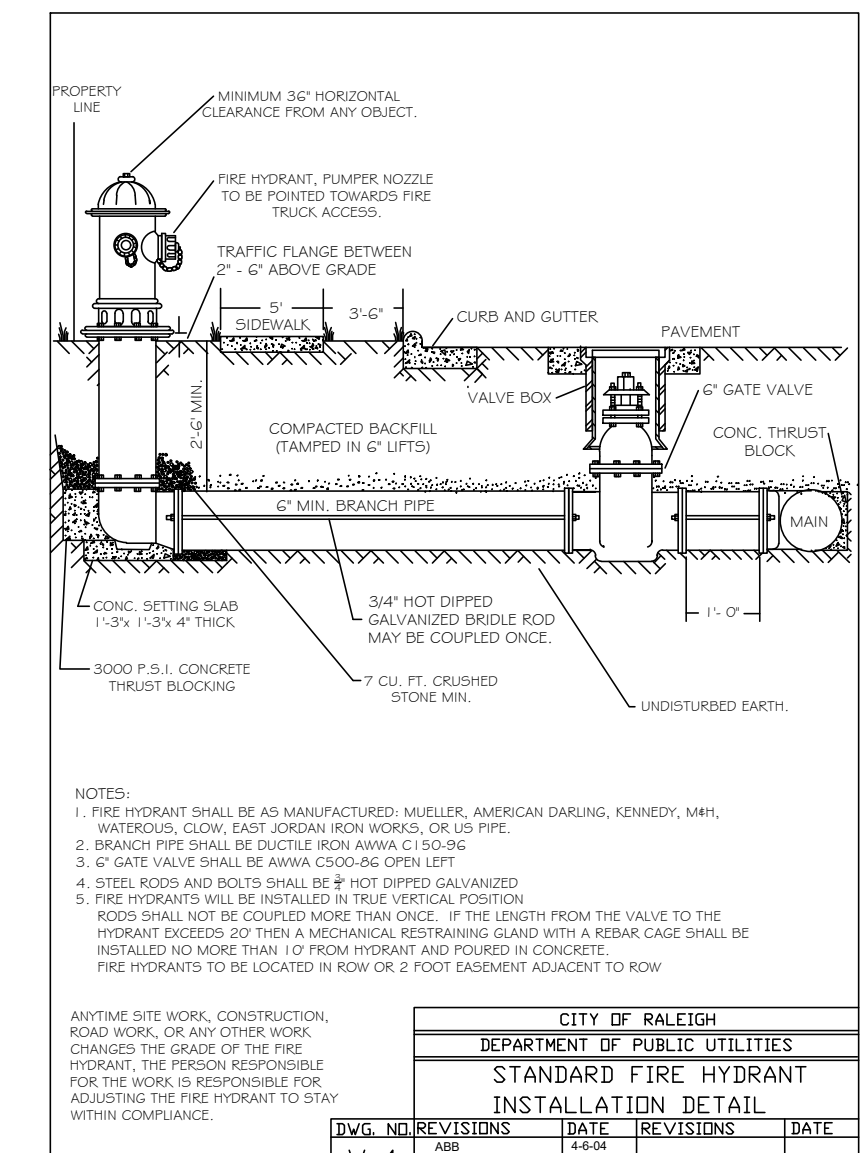
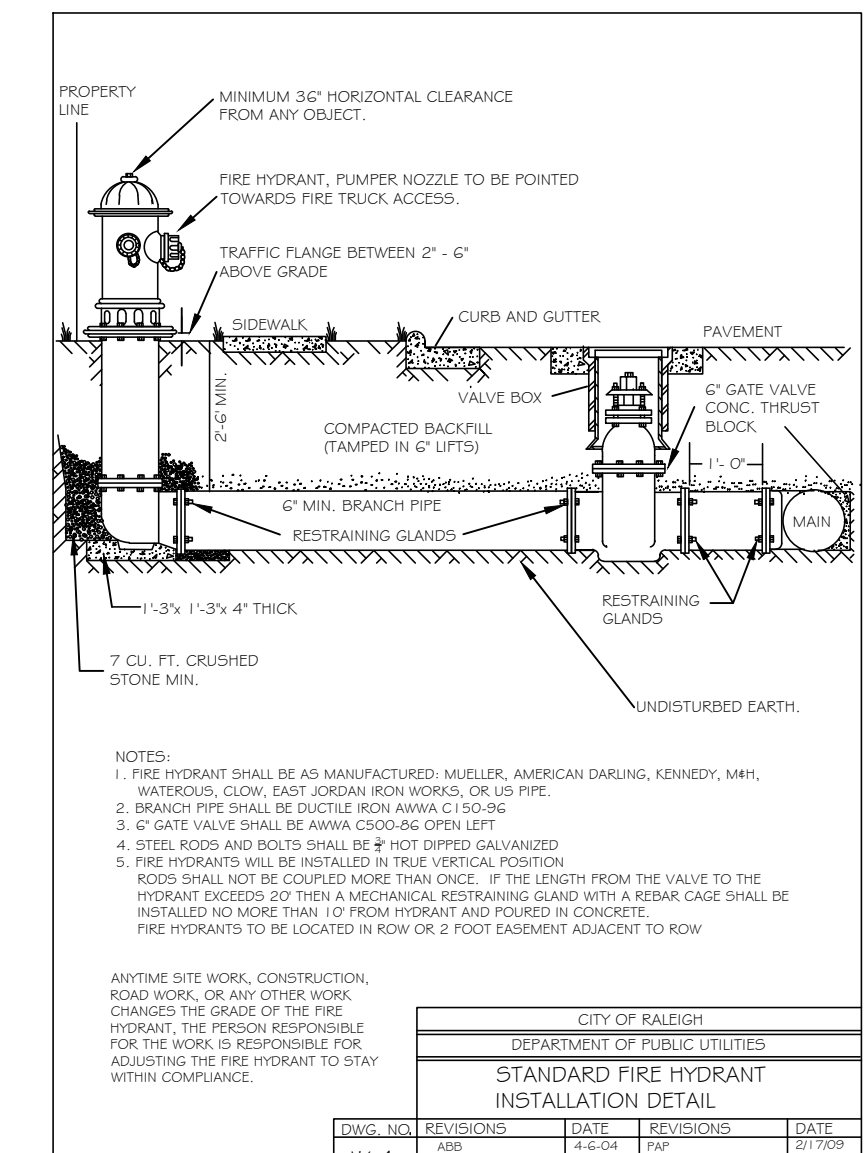
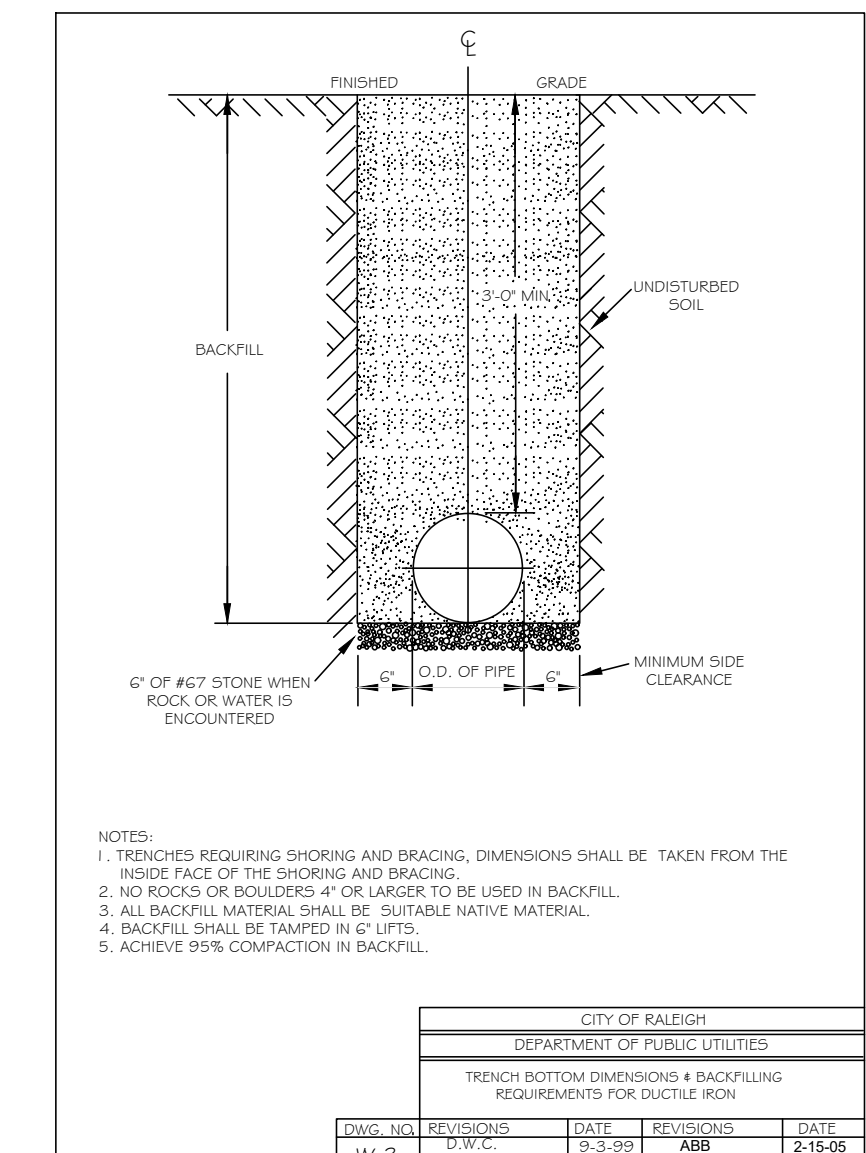
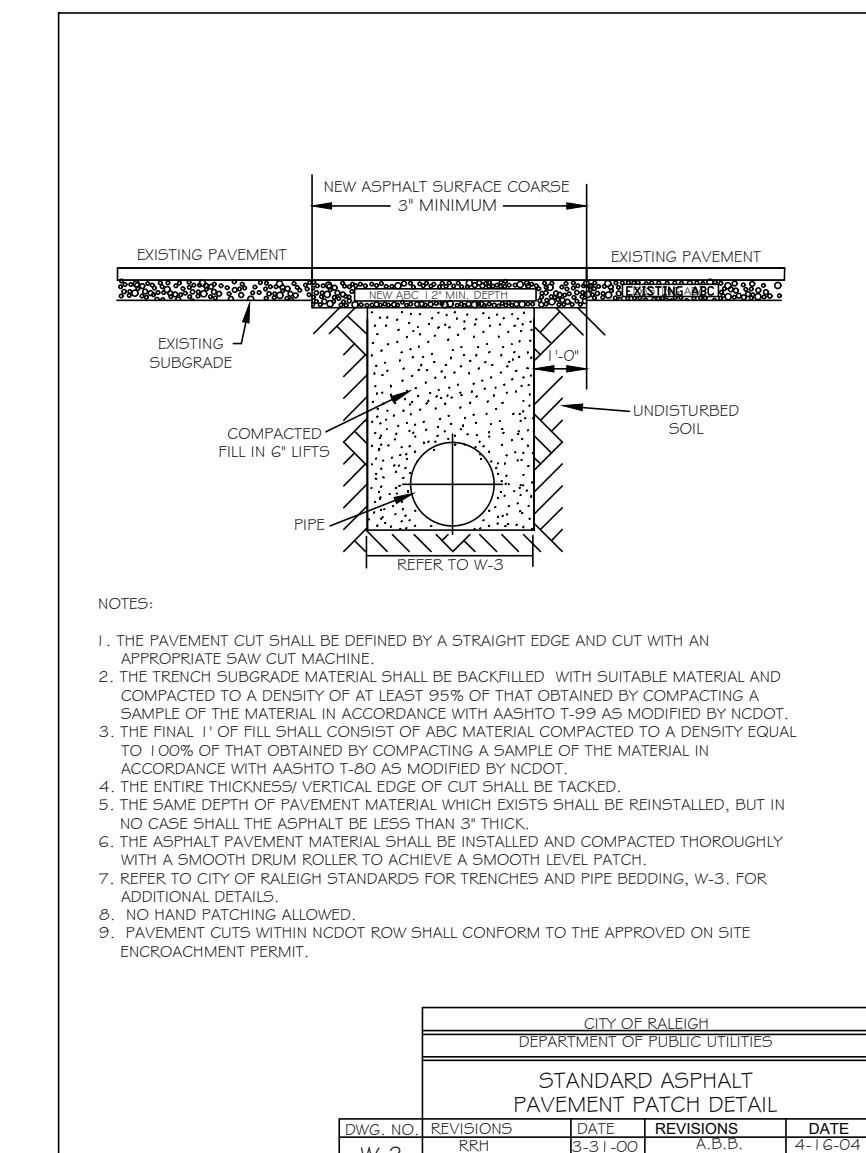
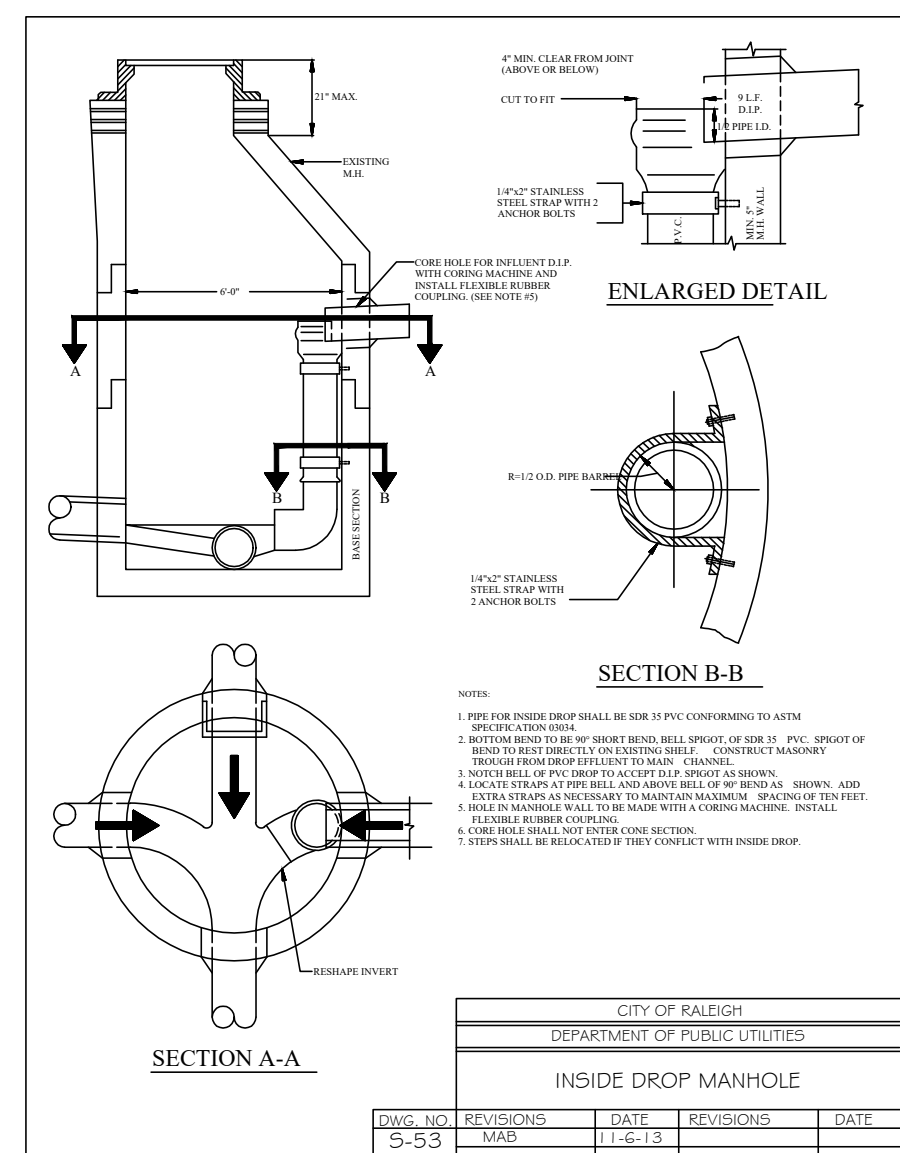
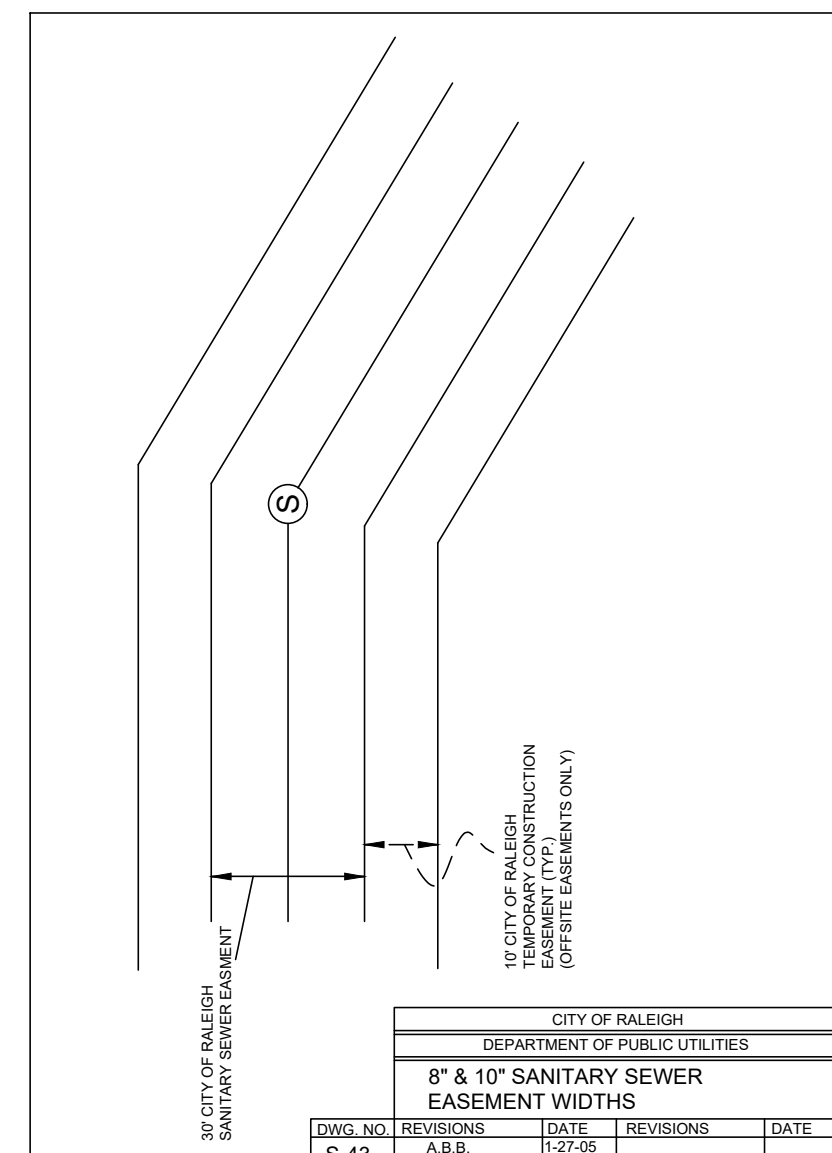
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Revisions
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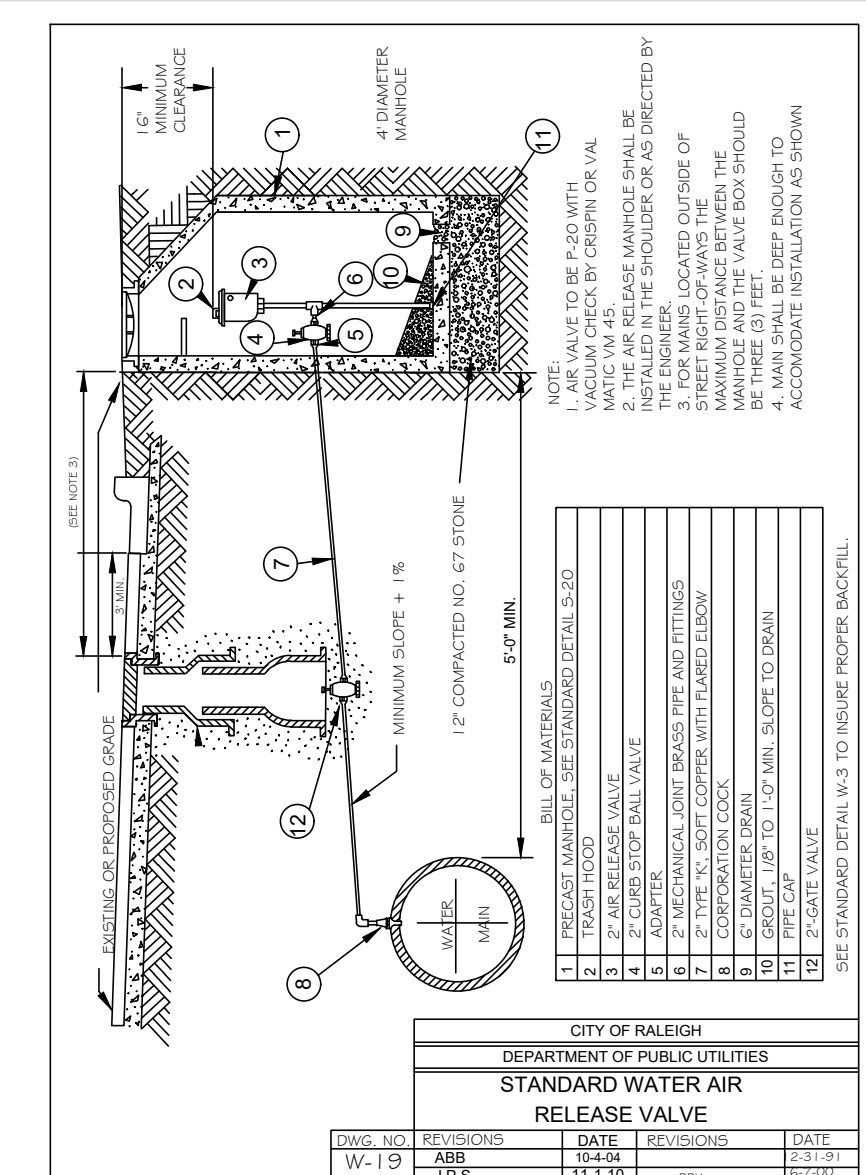
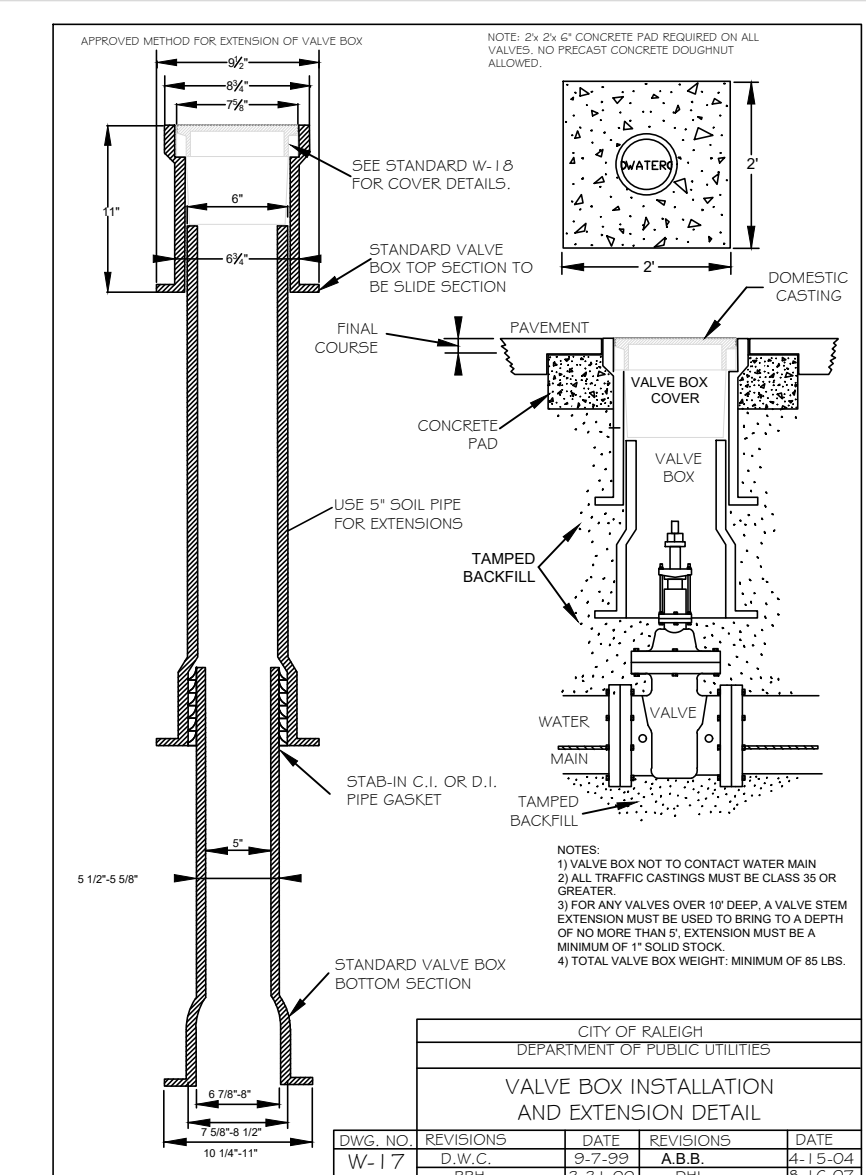
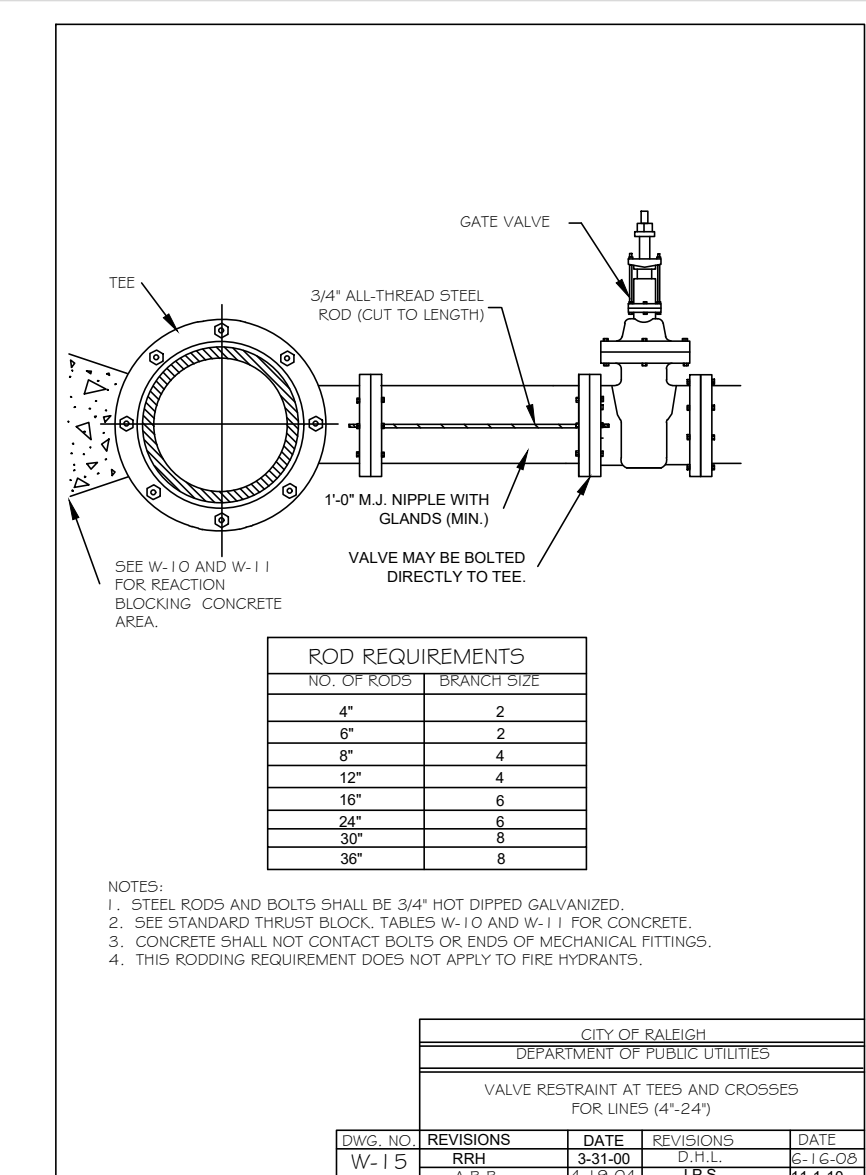
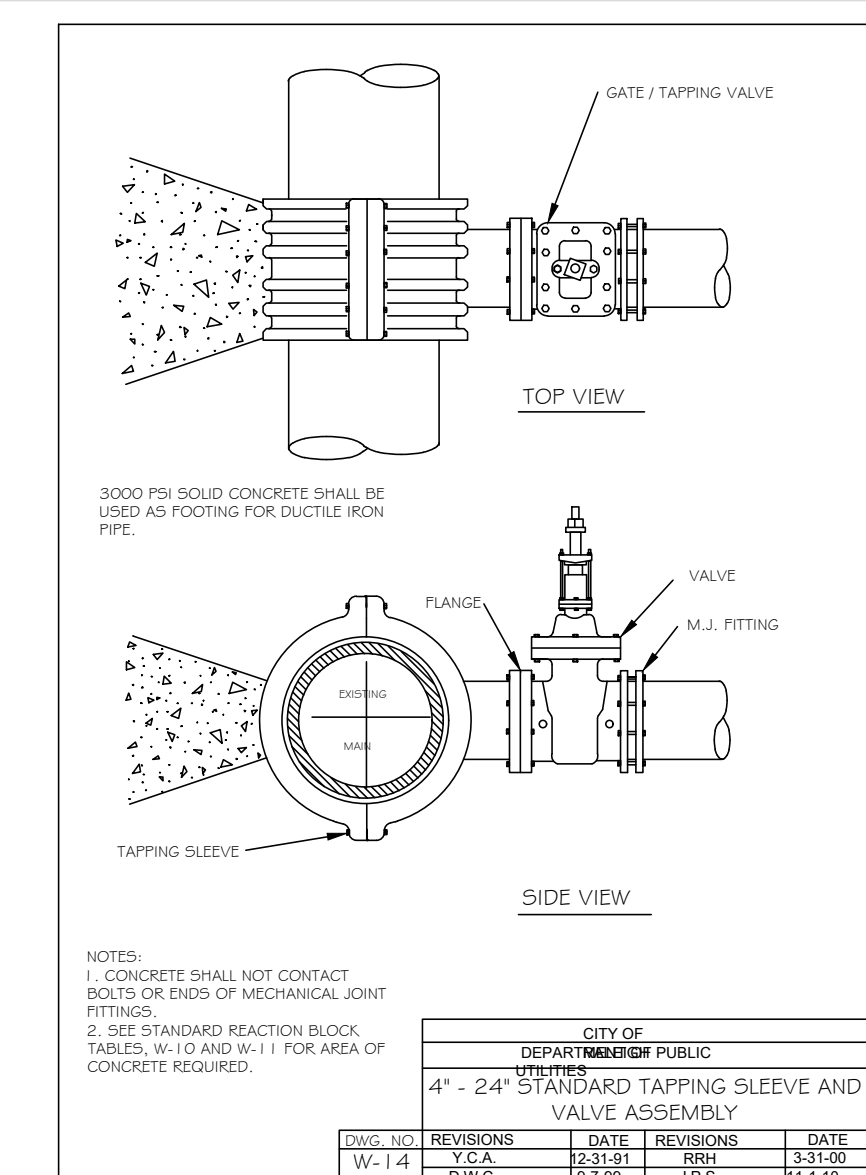
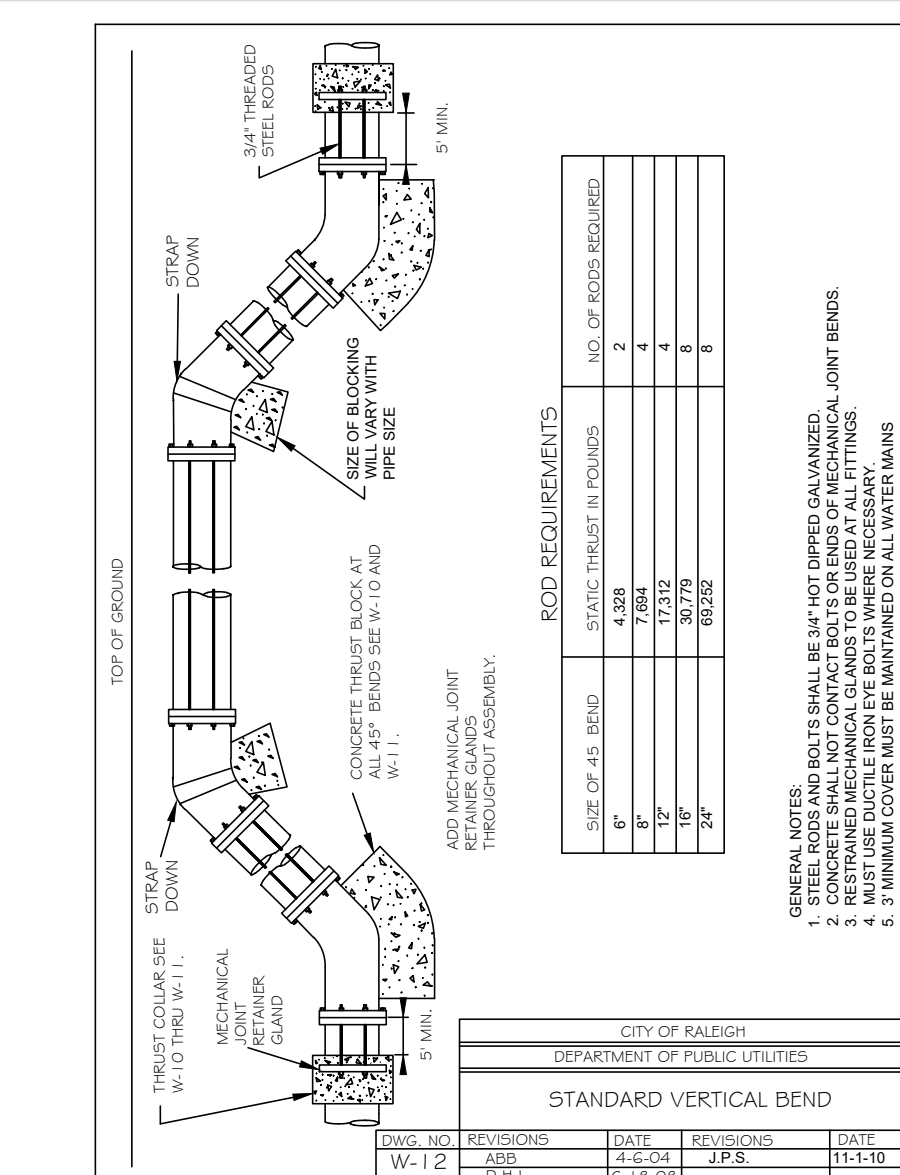


REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
(BASED ON TEST PRESSURE OF 200 P.S.I.)

PIPE SIZE	90° BEND	45° BEND	45° BEND	45° BEND	45° BEND	45° BEND	45° BEND
6"	1,108	1	1	1	1	1	1
8"	1,875	1	1	2	1	1	2
10"	2,822	1	2	3	1	1	4
12"	4,433	2	3	3	1	1	5
14"	7,881	2	4	5	1	1	8
16"	15,691	4	8	10	2	2	16
18"	30,379	8	16	19	4	4	31
20"	56,861	15	29	35	8	8	57
22"	82,413	21	41	50	11	11	80

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
(BASED ON TEST PRESSURE OF 200 P.S.I.)

PIPE SIZE	90° BEND	45° BEND	45° BEND	45° BEND	45° BEND	45° BEND	45° BEND
24"	17,734	5	9	11	3	3	5
26"	35,305	9	18	22	5	5	9
28"	69,252	18	35	42	9	9	18
30"	127,938	32	64	77	16	16	32
32"	30,478	23	46	58	12	12	23
34"	27,709	7	14	17	4	4	7
36"	55,163	14	28	34	7	7	14
38"	108,206	28	55	65	14	14	28
40"	199,800	50	100	120	25	25	50
42"	341,372	91	181	217	46	46	91
44"	70,835	18	36	43	9	9	18
46"	141,216	36	71	85	18	18	36
48"	277,007	70	139	166	35	35	70
50"	511,742	126	250	304	64	64	126
52"	305,911	51	102	122	26	26	51



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 None

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 CS-43

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Zebulon, North Carolina

Storm Chart (10 Year Event)

Date: 10/12/2021

Revised: 7/23/2024

Main storm chart table with columns for Downstream Structure, Upstream Structure, Top Elev, Pipe Segment Data, Area, Invert, and Invert Upstream Structure.

Main storm chart table with columns for Downstream Structure, Upstream Structure, Top Elev, Pipe Segment Data, Area, Invert, and Invert Upstream Structure.

Main storm chart table with columns for Downstream Structure, Upstream Structure, Top Elev, Pipe Segment Data, Area, Invert, and Invert Upstream Structure.

Notes: CB IS CATCH BASIN; FES IS FLEED END SECTION - NCDOT STD. 310.01; HW IS HEADWALL - NCDOT STD. 308.11; DIP IS DUCTILE IRON PIPE; ID IS INLINE DRAIN NYLON/PLAST OR EQUAL.

Clifton Grove Zebulon, NC

Date: 2/9/2022 Rev: 8/1/2024

Erosion Control Basins (Designed for Efficiency)

Table of erosion control basins with columns for Basin #, Drainage Area, C, Q25, Surface Area, Dimensions, Surface Area Prvd, Basin Type, and Spillway Length.

Velocity Dissipator Velocity Dissipator Calculations

Table for velocity dissipator calculations with columns for Pipe Number, Diameter, Slope, Manning's n, Q, V, Zone, Length, Minimum Rip-Rap, and Rip-Rap Thickness.

Note: Velocity Dissipation design per NCDOT method. Velocity adjusted for less than full flow in pipe.

Four tables for Riser Basin Anti-Floitation Calculations, one for each of the four riser basins, showing dimensions, required volume, and buoyancy.

Summary table for Riser Basins 1-5, Skimmer Basins 6-7, and Skimmer Basin 8, listing various parameters like required volume, dimensions, and spillway length.



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10/17/2024

Revisions 07.13.22--06.12.23 Per City/Town 1st--5th review 10.19.23 Per Wake Co review 01.31.24 Per Wake Co review 08.01.24 Per Wake Co review 09.05.24 Per Wake Co review 10.07.24 Per Wake Co review

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Date February 15, 2022

Scale None

Sheet CS-44

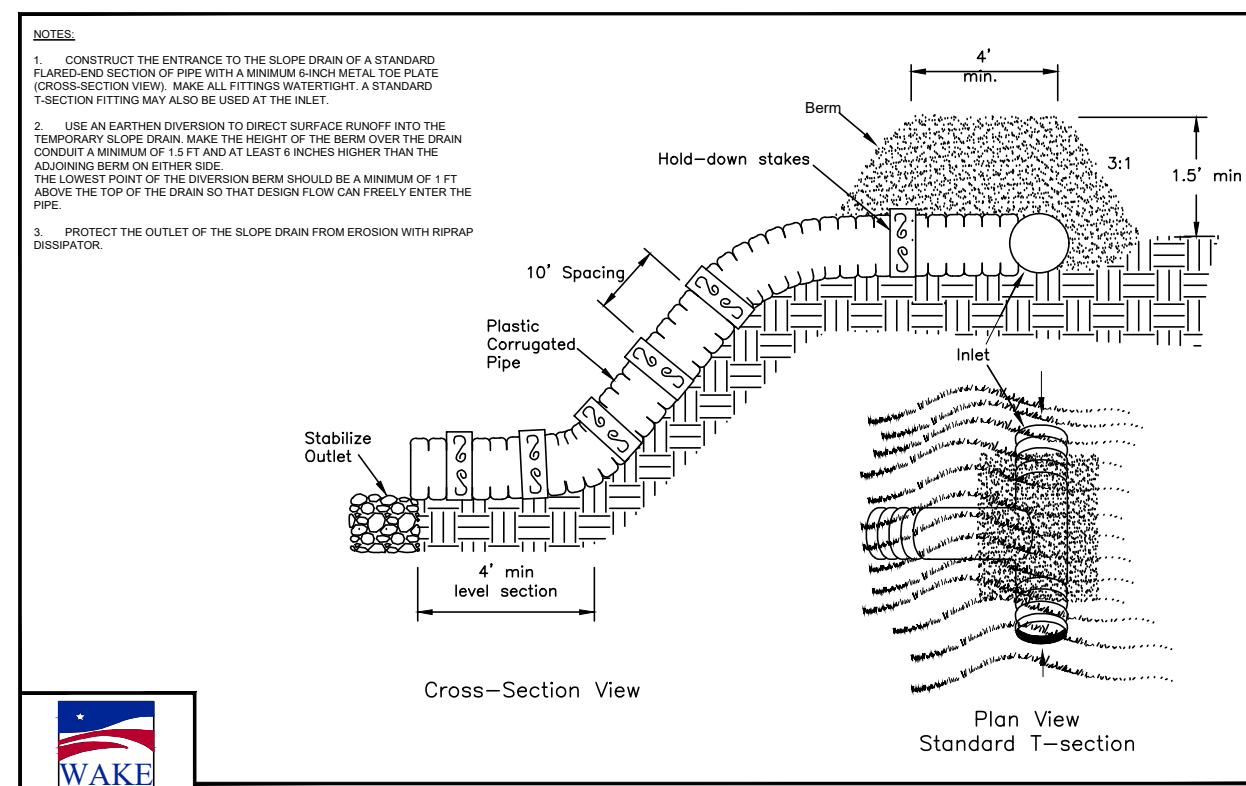
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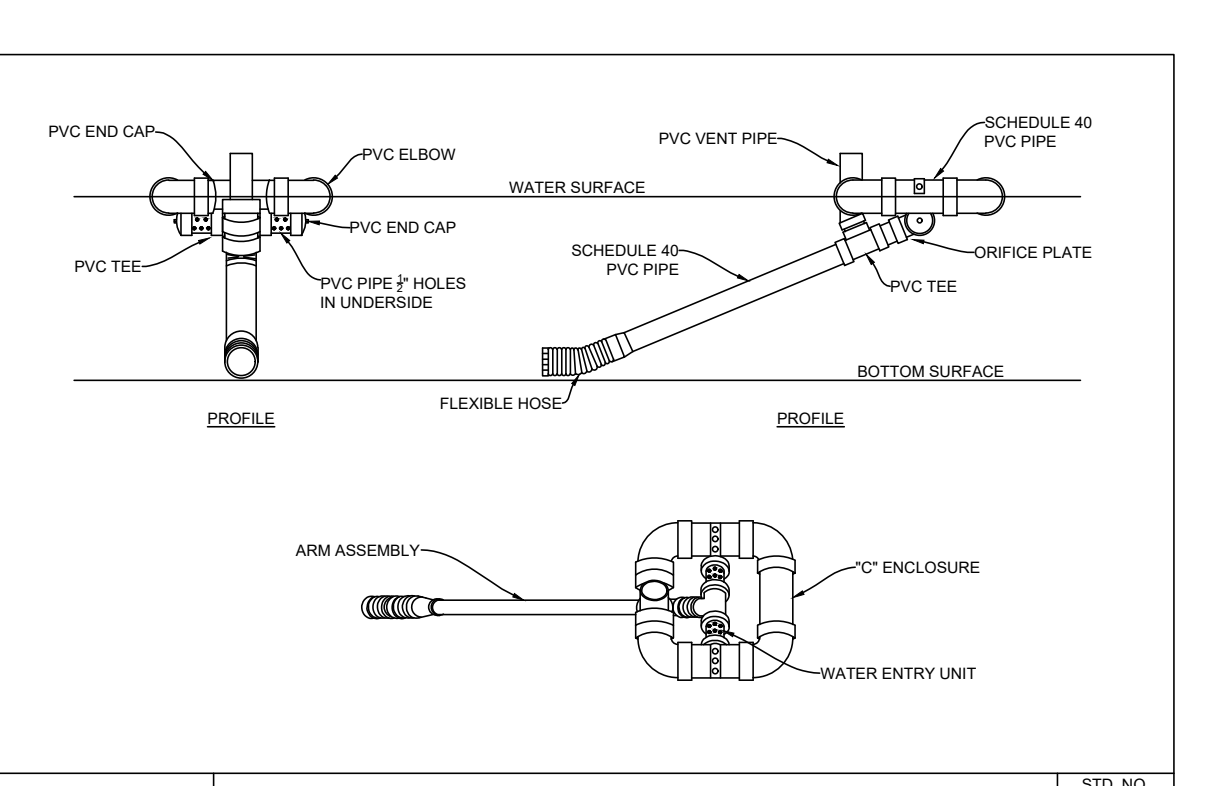
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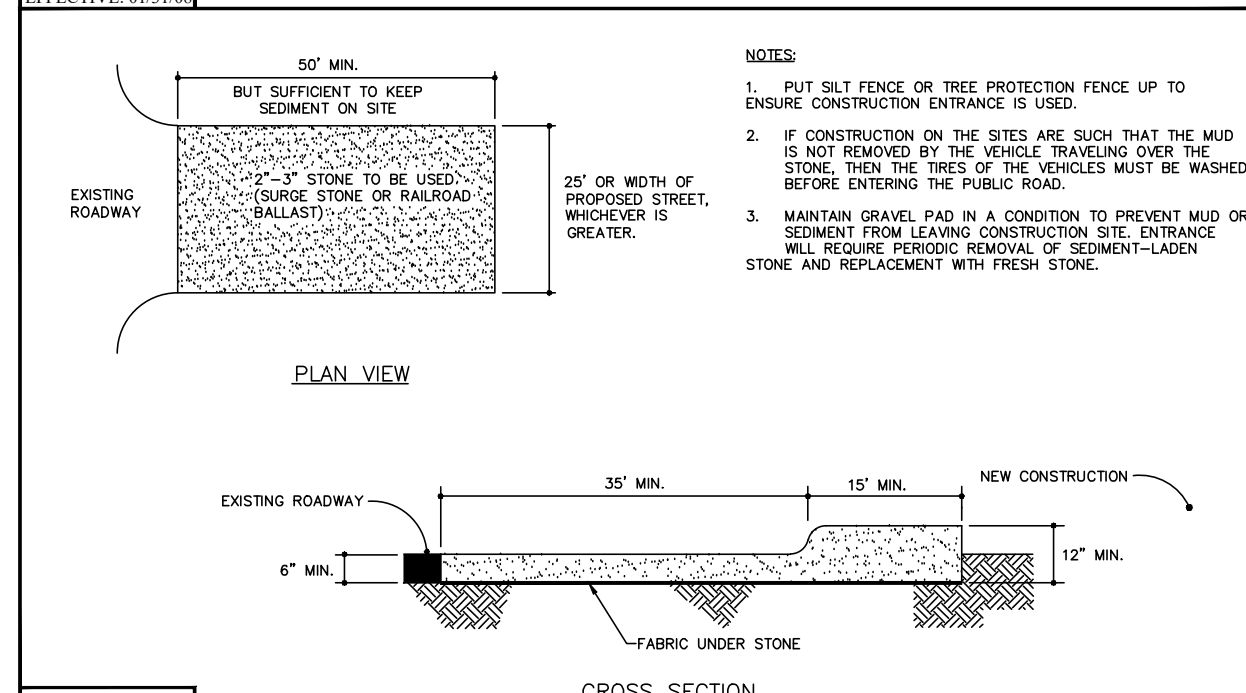
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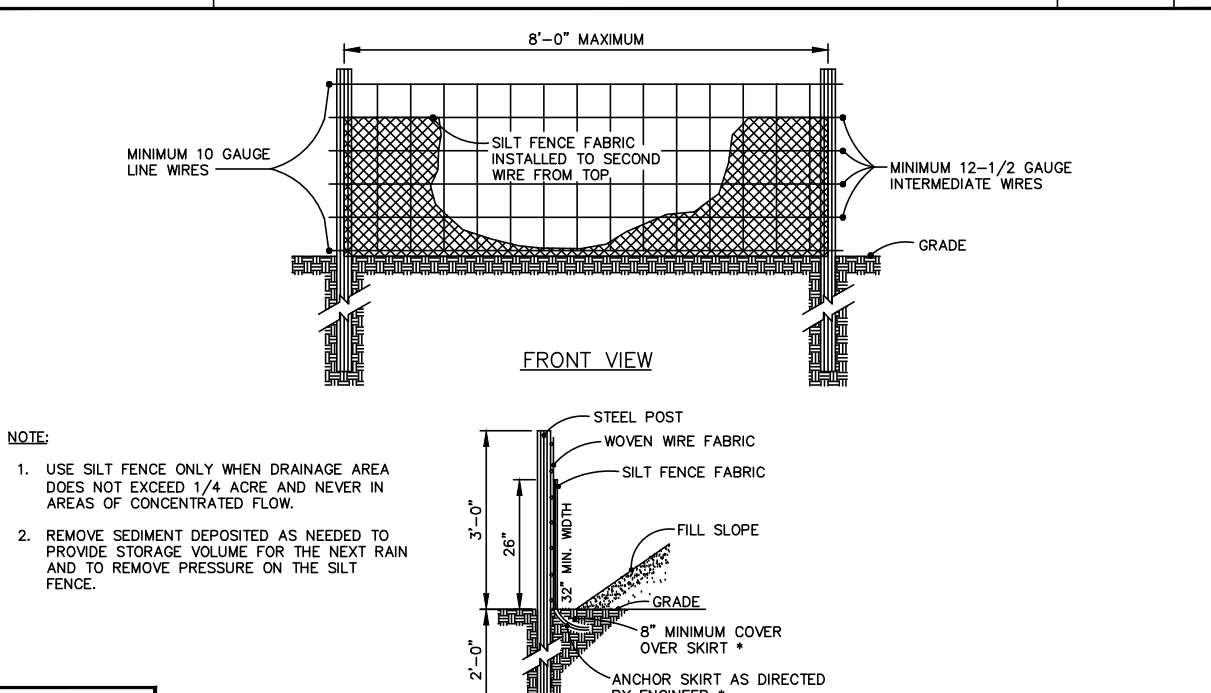
STANDARD TEMPORARY SLOPE DRAIN



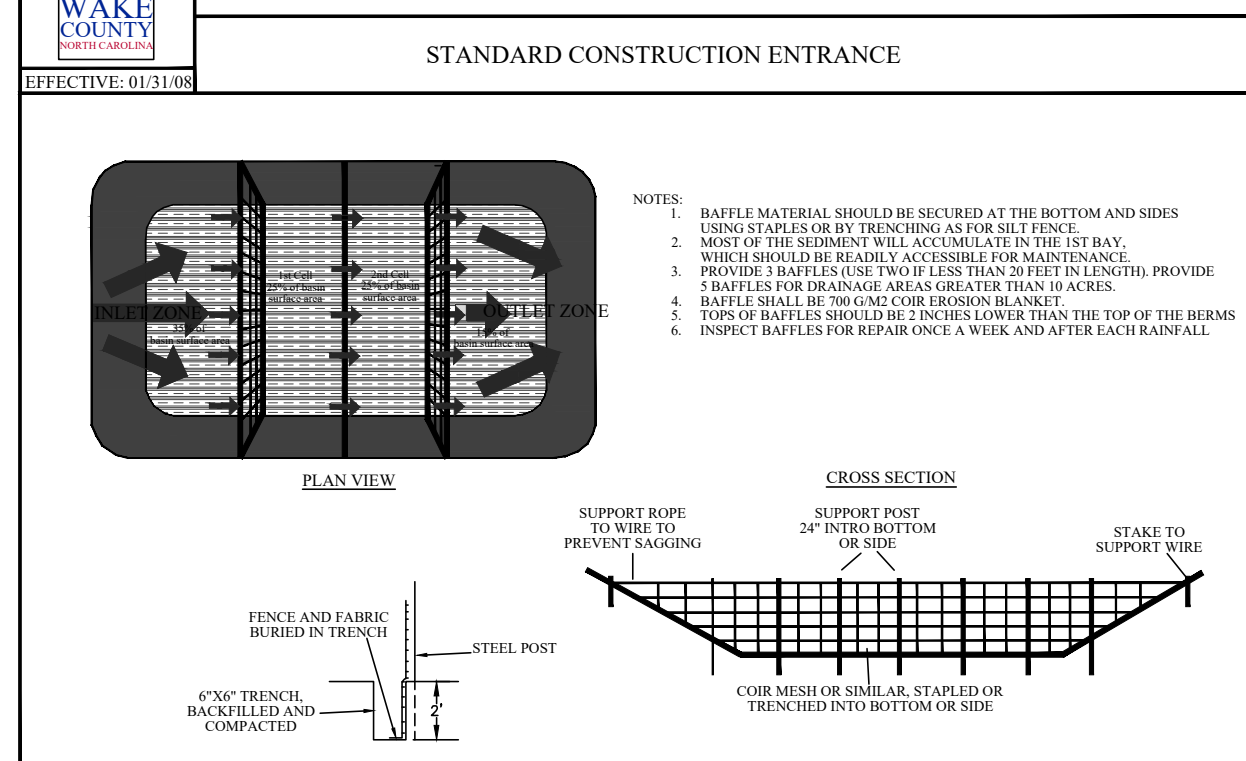
SKIMMER DETAIL



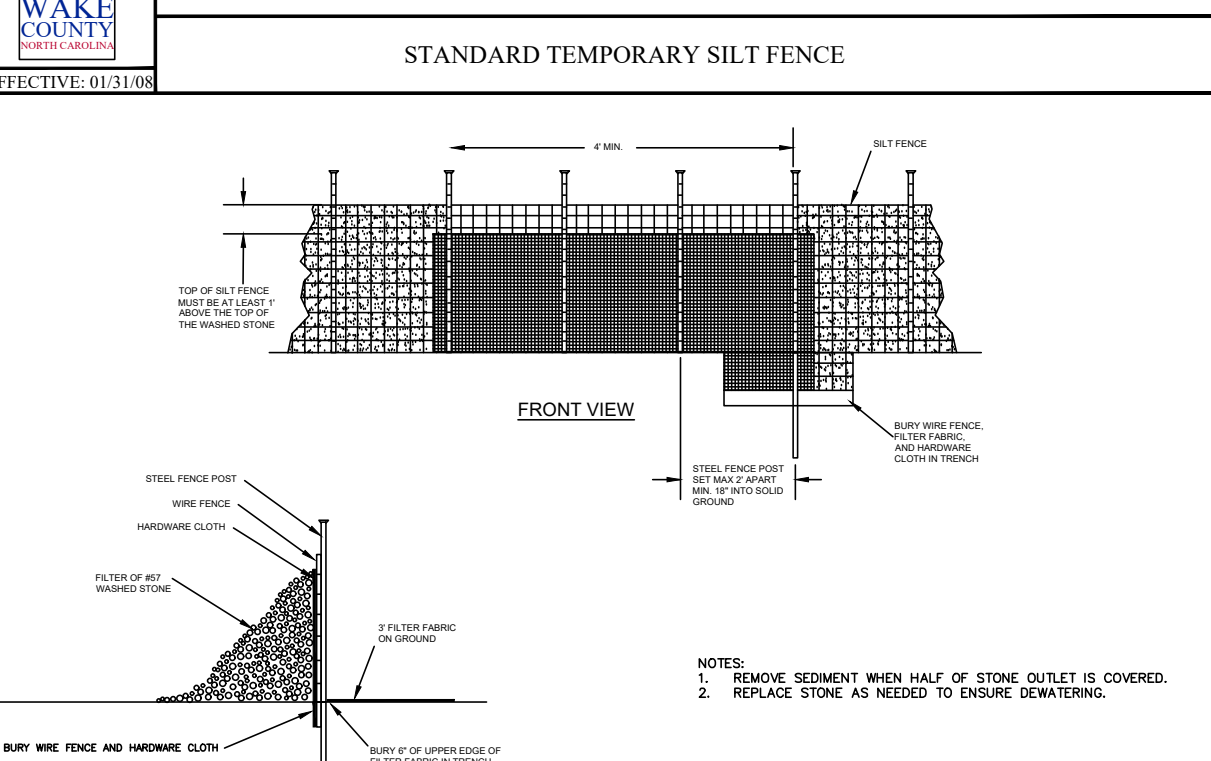
STANDARD CONSTRUCTION ENTRANCE



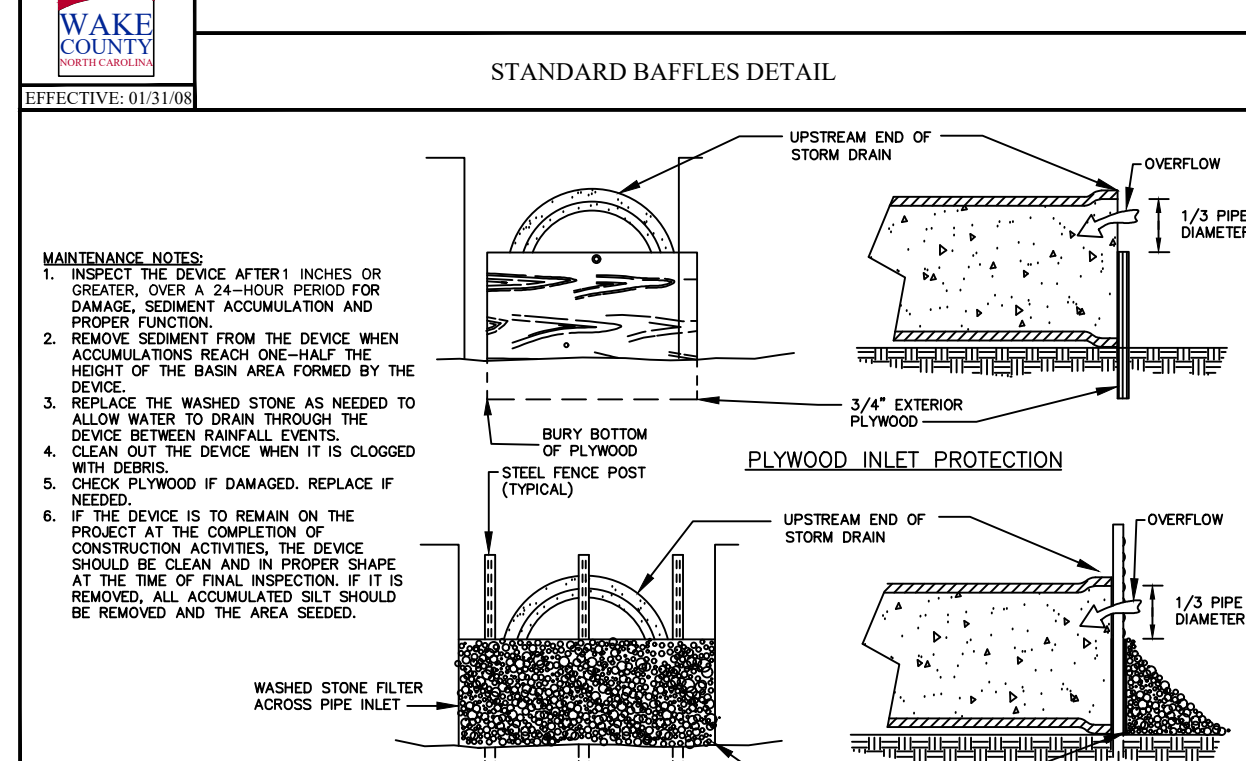
STANDARD TEMPORARY SILT FENCE



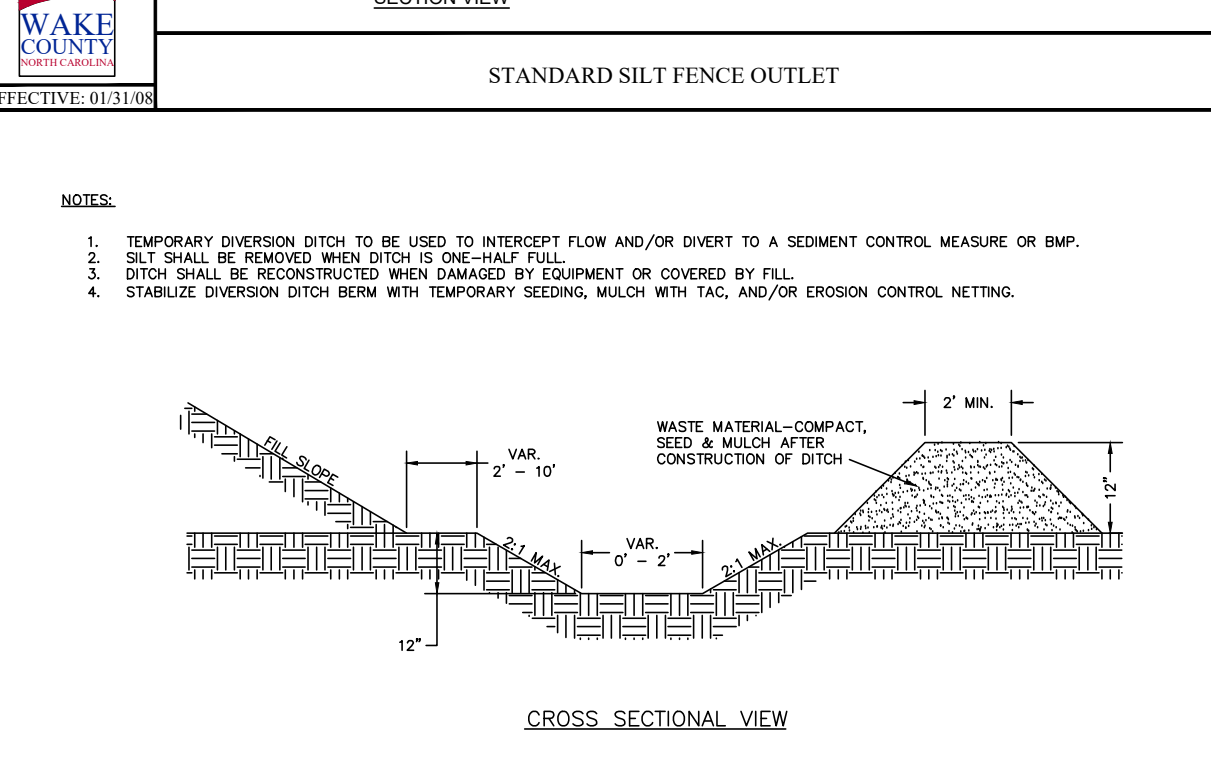
STANDARD BAFFLES DETAIL



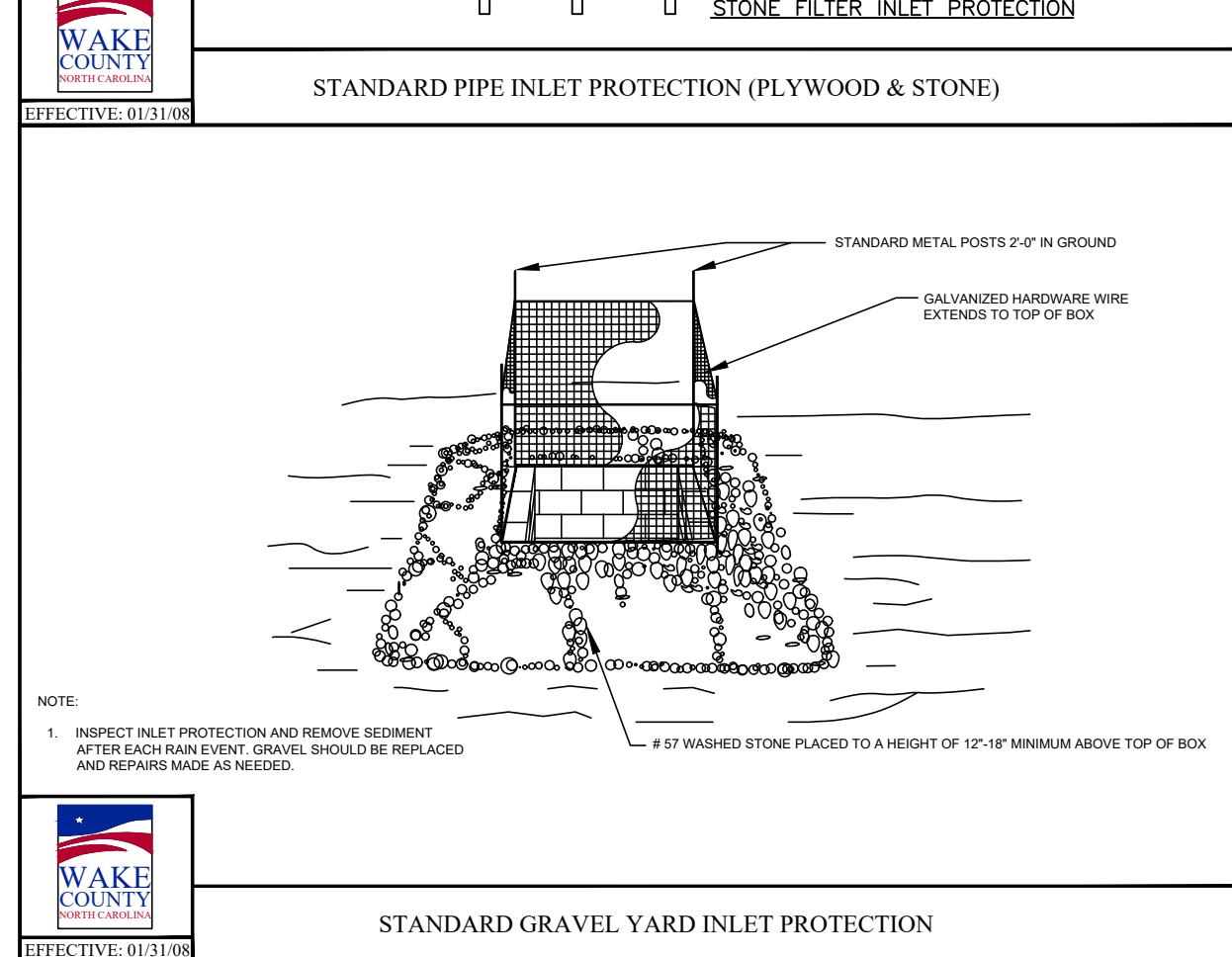
STANDARD SILT FENCE OUTLET



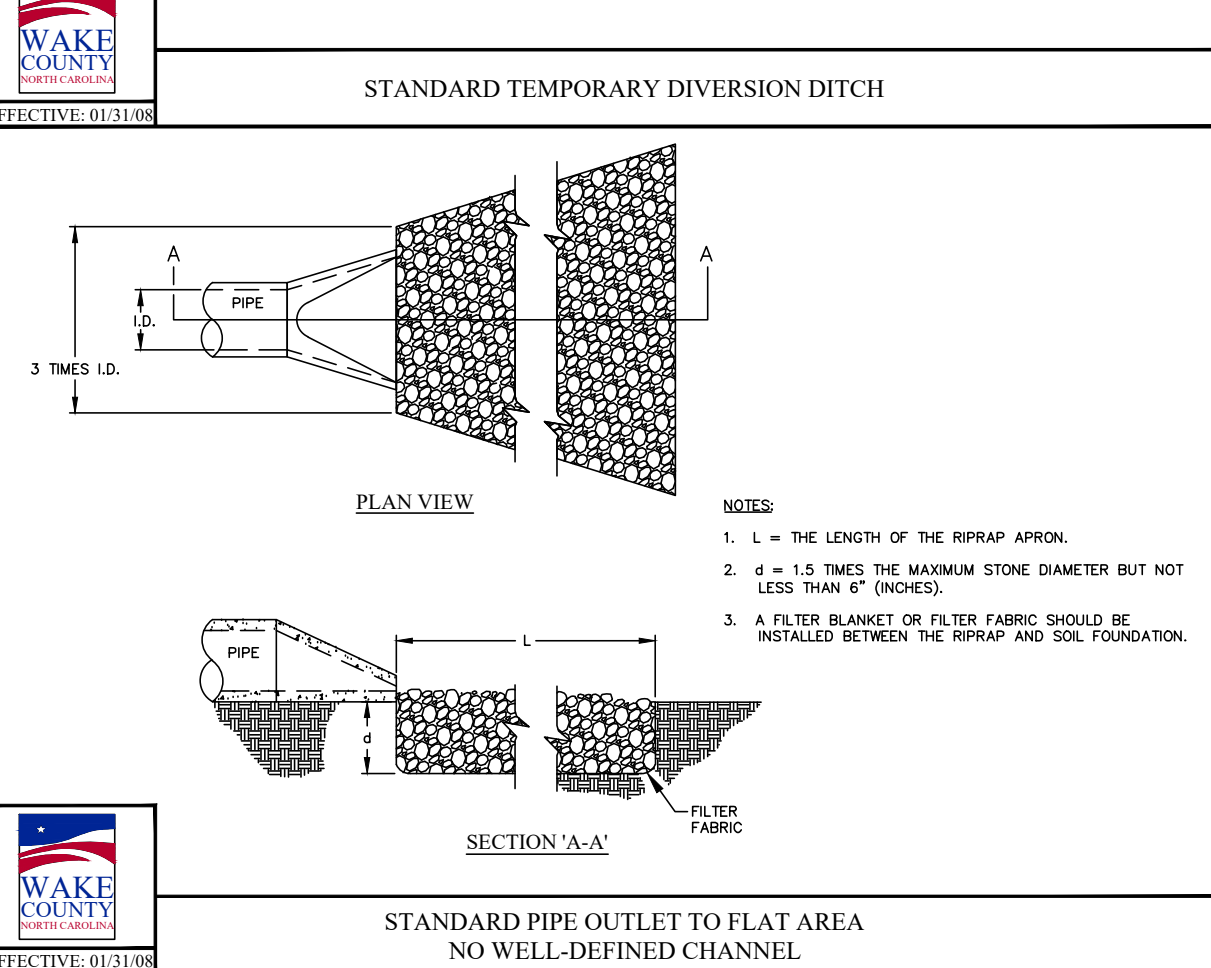
STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)



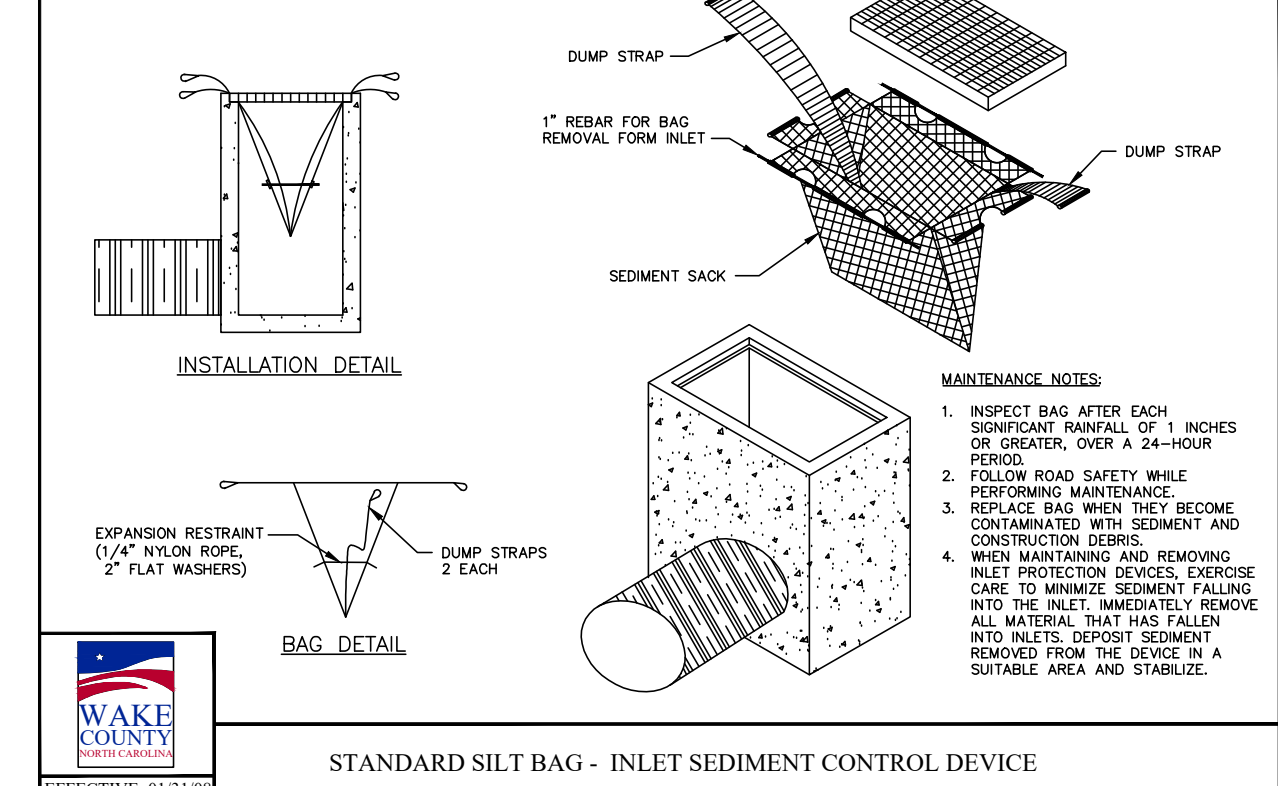
STANDARD TEMPORARY DIVERSION DITCH



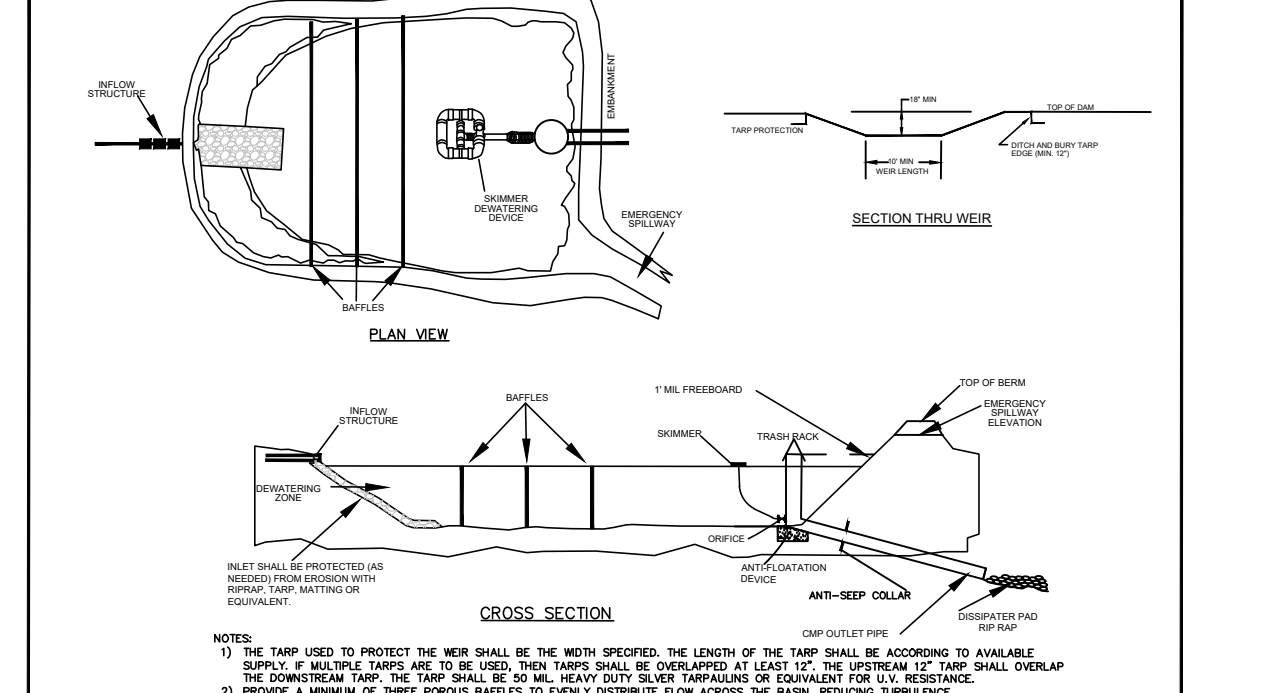
STANDARD GRAVEL YARD INLET PROTECTION



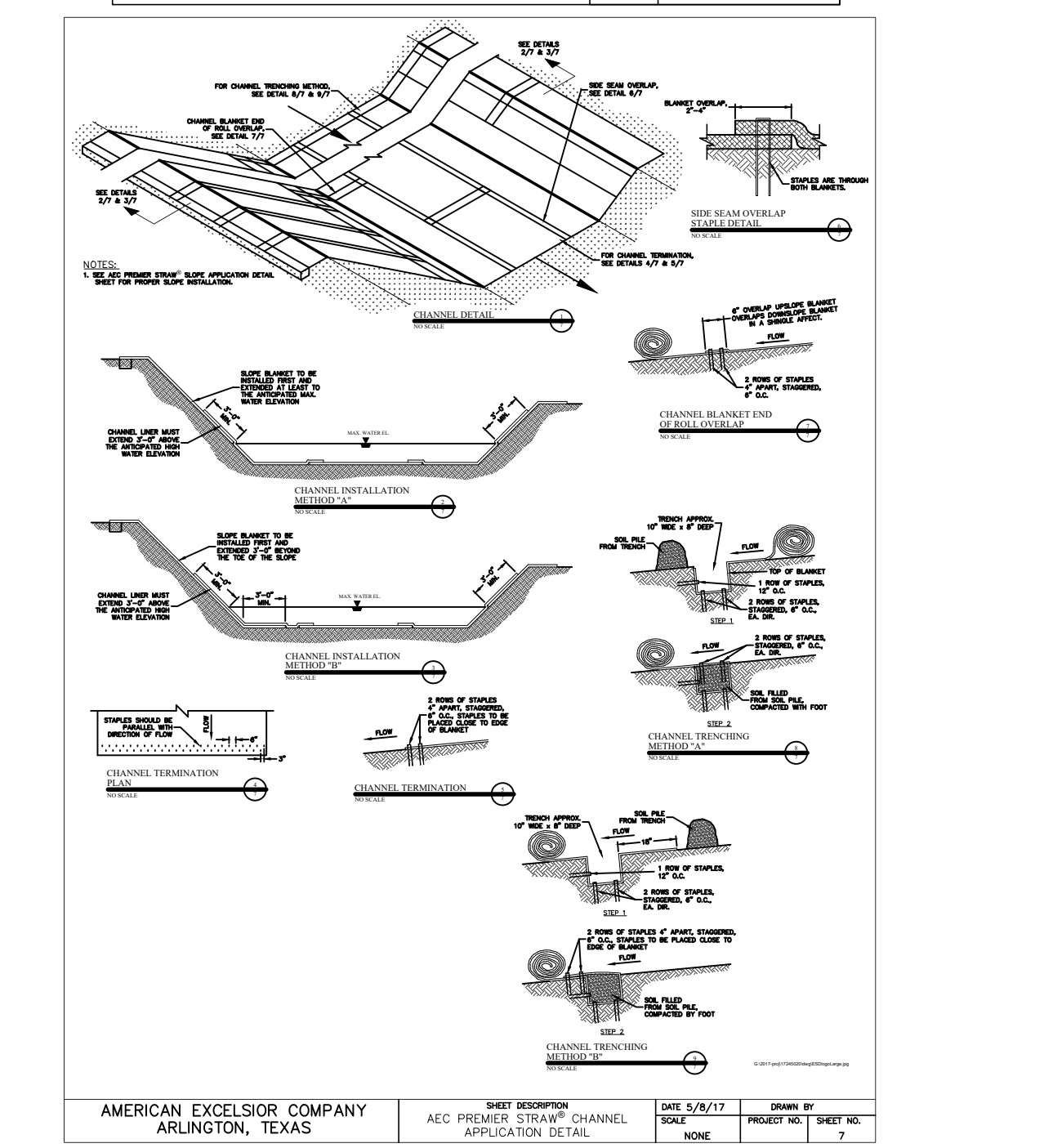
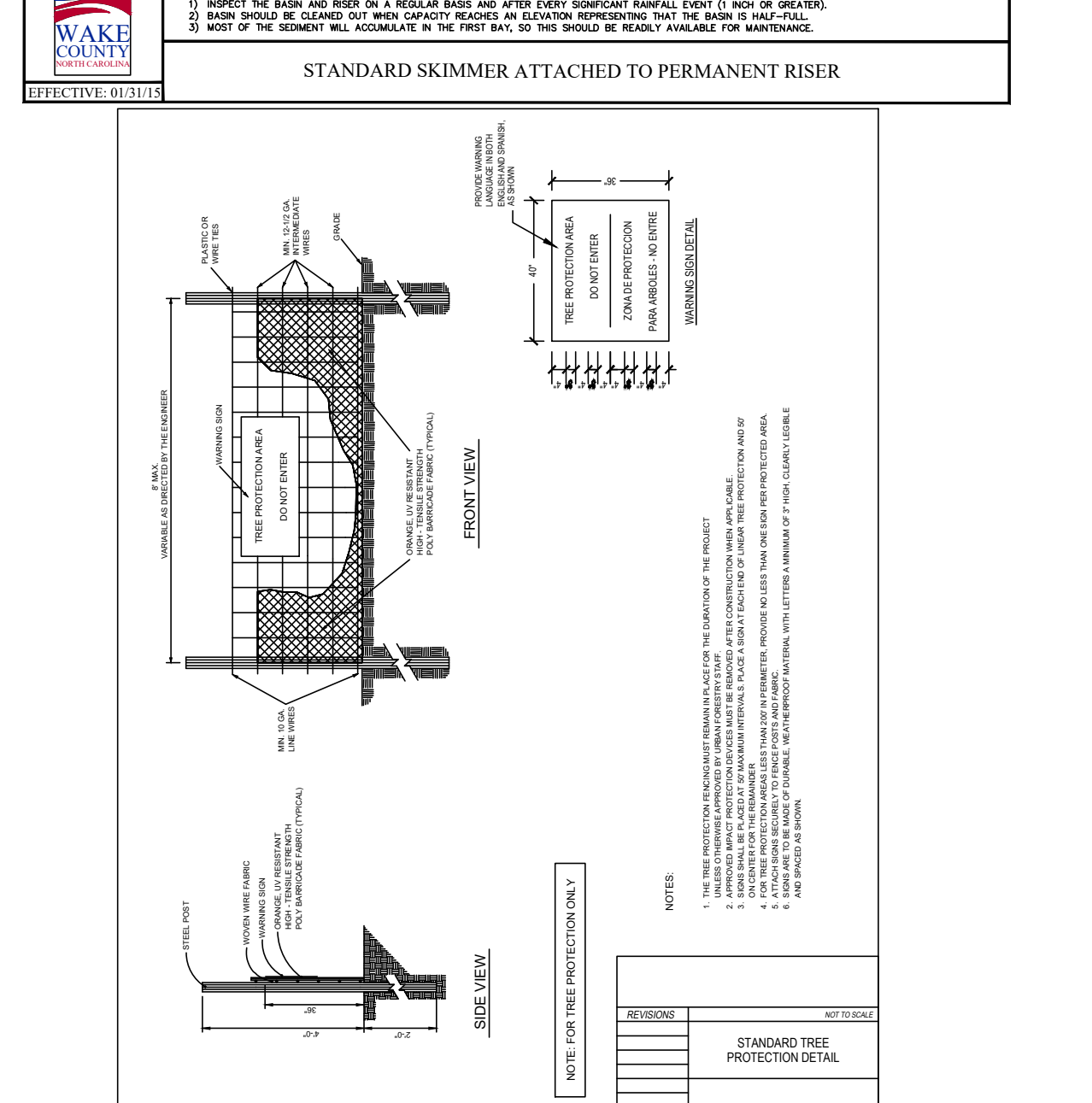
STANDARD PIPE OUTLET TO FLAT AREA NO WELL-DEFINED CHANNEL



STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE



STANDARD SKIMMER ATTACHED TO PERMANENT RISER



Erosion Control Construction Sequence

- Schedule a preconstruction conference with the Wake County and Town of Zebulon. Obtain a land-disturbing permit.
- Implementation of the erosion control plan for the activities related to these Construction Plans shall be conducted in two sequential phases and close-out as described below:
 - Stage 1-Installation of Initial Measures**
 - Install measures as shown on the approved plan (silt fence, construction entrances, diversion ditches, riser basins, bypass pipes (see CS-45 for sequence of stream pump around for bypass pipes). Clear only as necessary to install these devices.
 - Install protective lining and/or seed (as specified on the plans) for temporary diversions, berms and basins immediately after installation.
 - Call Engineering Construction Inspector for a compliance inspection.
 - Stage 2 -Conduct grading and install infrastructure elements**
 - Conduct grading operations and installation of temporary culverts as necessary to attain proposed subgrade elevation-taking care at all times to maintain and adjust, if necessary, erosion/sediment control measures to ensure there is no export of sediment from the site
 - Upon attainment of subgrade elevations, install storm drainage piping including velocity dissipaters, structures, and utilities in strict conformity to the inspection procedures of the Town of Zebulon and the City of Raleigh.
 - Prepare street subgrade for inspection by the Town or NCDOT - as applicable.
 - Upon receipt of approval of subgrade, place and compact street base course, and install walks.
 - Prepare stone base for structural and template inspection and contact Town for inspection.
 - Upon receipt of approval of street base for paving, place 1st lift of asphalt.
 - Seed and mulch to vegetatively stabilize all disturbed areas outside of the surface infrastructure elements.

Site Stabilization and Close-out

- Upon attaining vegetative stabilization of all disturbed areas, and receipt of concurrence from the Engineering Construction Inspector, remove all temporary erosion control measures/sediment basins, and for those sediment basins occupying the locations of permanent SCMs, convert those basins to achieve conformity to approved SCM plans and details in accordance with the procedure cited below.
 - Conversion of Sediment Basins to SCMs.
 - Utilizing a pump with floating inlet and a sediment basin dewatering bag as indicated on the plans, dewater the sediment basins and remove baffles. Retain the pump and sediment basin dewatering bag to maintain dewatered condition during close-out operation.
 - Remove and dispose of accumulated sediment from the sediment basins, and fine grade the interior of the SCM to achieve conformity to the grades, contours, and details shown on the plans.
 - Obtain field surveyed data providing detailed topo and spot elevations of the dam and associated slopes, the interior surface of the SCM, and the dimensions and elevations of the outlet structure, orifices, weirs, and outlet pipes.
 - Relay surveyed data to the Design Engineer for inspection and approval prior to installation of plant materials or sod within the SCM.
 - Upon approval from the Design Engineer, implement the planting plan for the SCM (see landscape notes and specifications on sheets CS-36 through CS-38), and call Design Engineer for inspection of same.
 - Upon approval of the landscaping and attainment of vegetative stabilization, remove dewatering pump and appurtenances.
 - Call for a final site inspection by the Engineering Construction Inspector.

NOTE: As noted on the plans, the ultimate drainage patterns of the project and the resulting contributory areas to the SCMs will not be achieved until implementation of on-lot grading that will be conducted in accordance with Stage 3 Grading Plans to be conducted subsequent to, and under separate land disturbance permit(s) from, the implementation of the grading and infrastructure installation activities included in the scope of work covered by permits issued for these Construction Plans. Accordingly, and depending upon the implementation schedule of the Stage 3 (on-lot) grading, full conversion and certification of some of the SCMs may occur after the date of completion of infrastructure elements and recordation of future lots within the contributory area of a given SCM. In such cases, appropriate financial guaranty for the costs of SCM conversion would be posted in conformity to the policies and procedures of the Town of Zebulon and Wake County prior to recordation of lots contributory to the subject SCM.

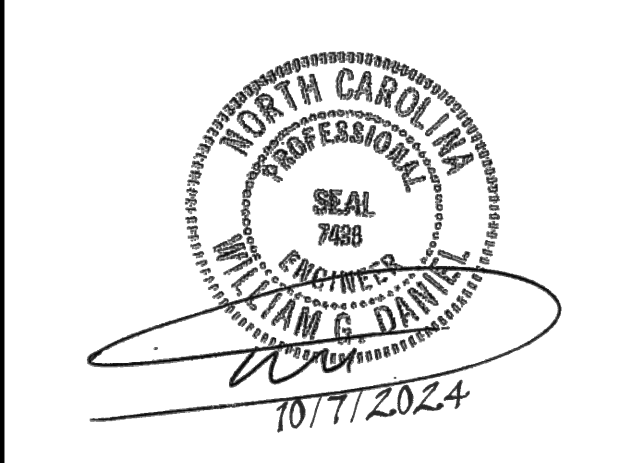
GENERAL INSTRUCTIONS

- Maintain devices as needed for all phases of project. Remove erosion control devices with Engineering Construction Inspector approval only.
- Maintain rain gauge and self-inspection records per NPDES requirements as proceeding with clearing and grading site.
- Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas per ground stabilization time frames on approved plan.

END OF CONSTRUCTION SEQUENCE

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are note steeper than 2:1, 14 days are allowed
Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)

*Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable. (Section II B(2)(b))



Revisions

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Project
Clifton Grove

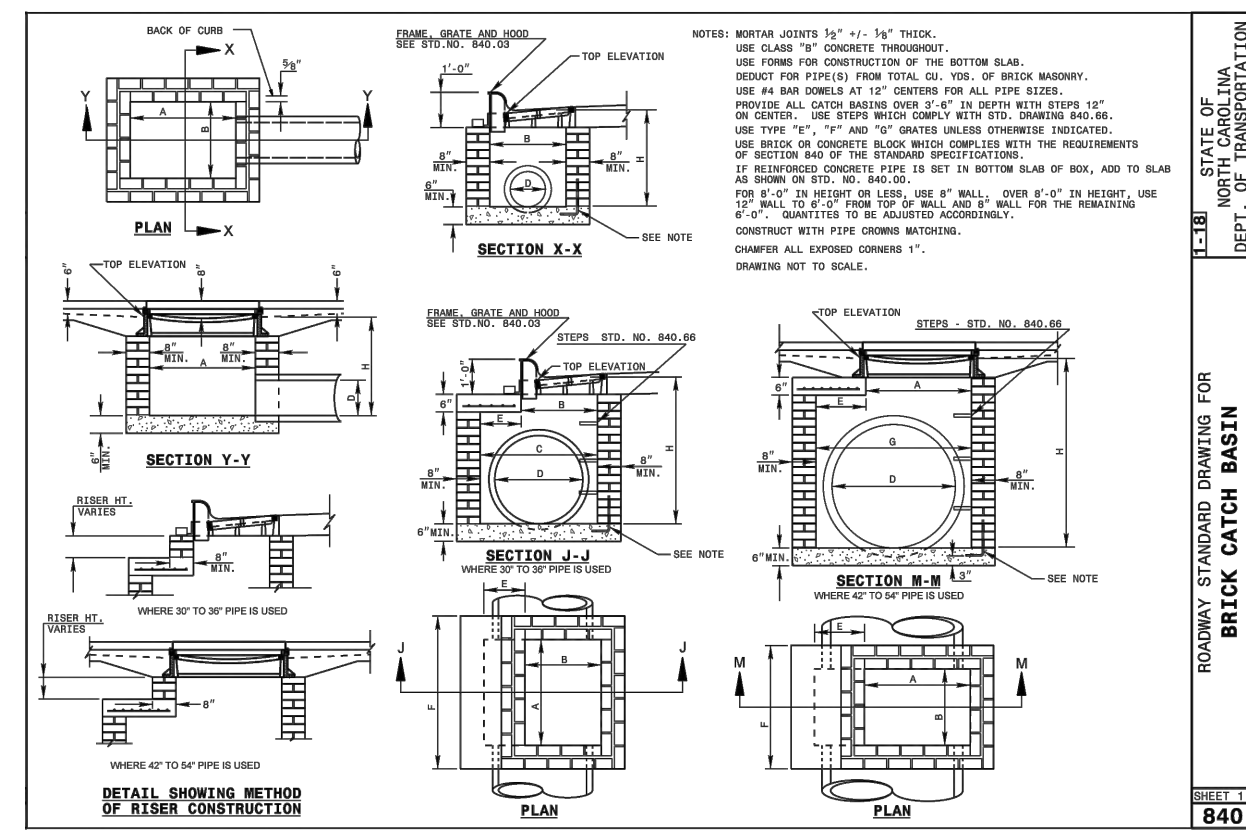
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Date
February 15, 2022

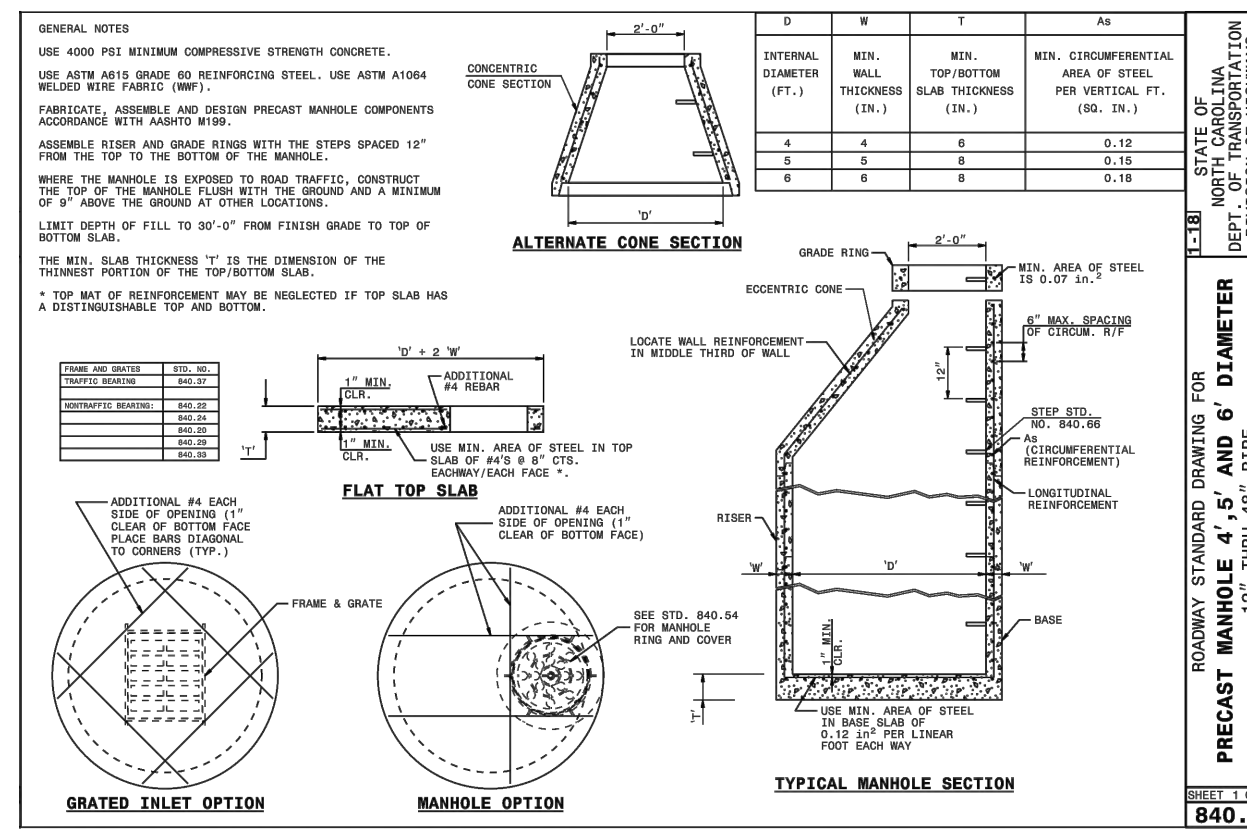
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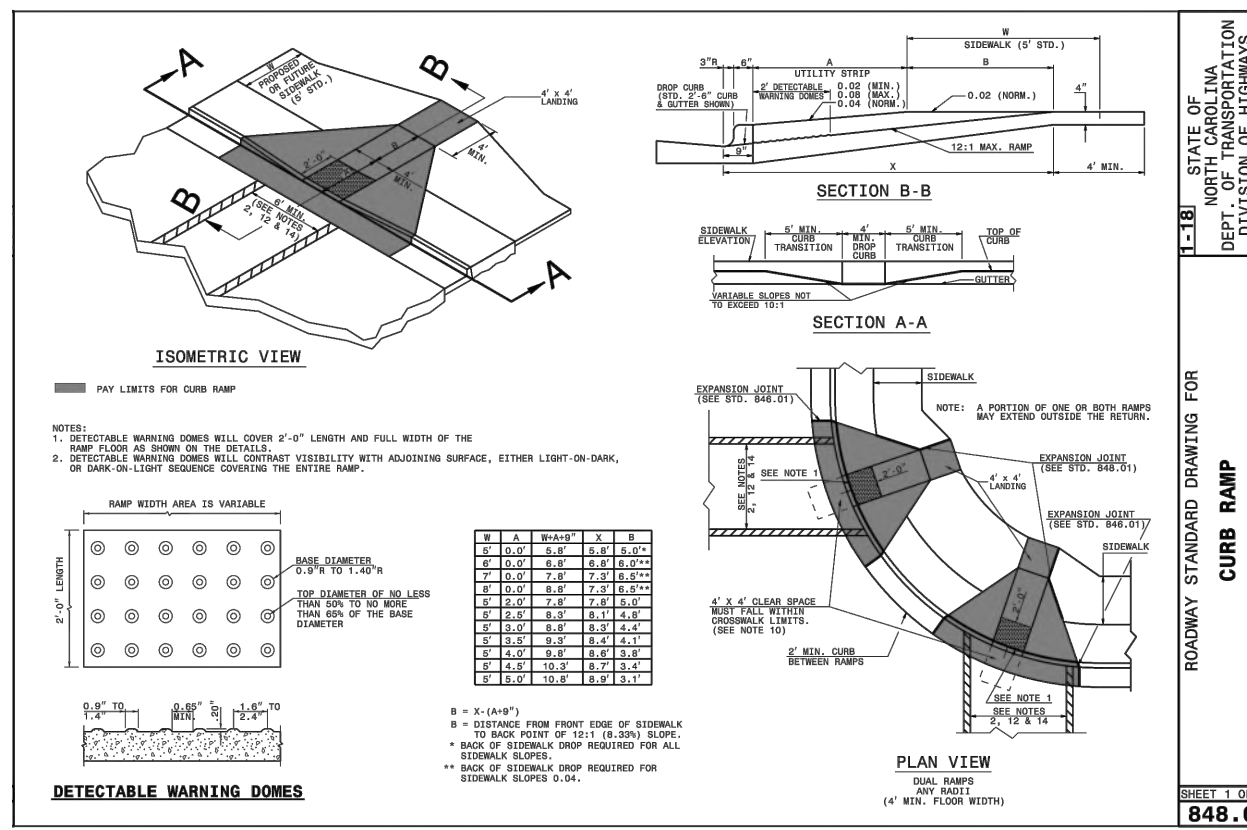
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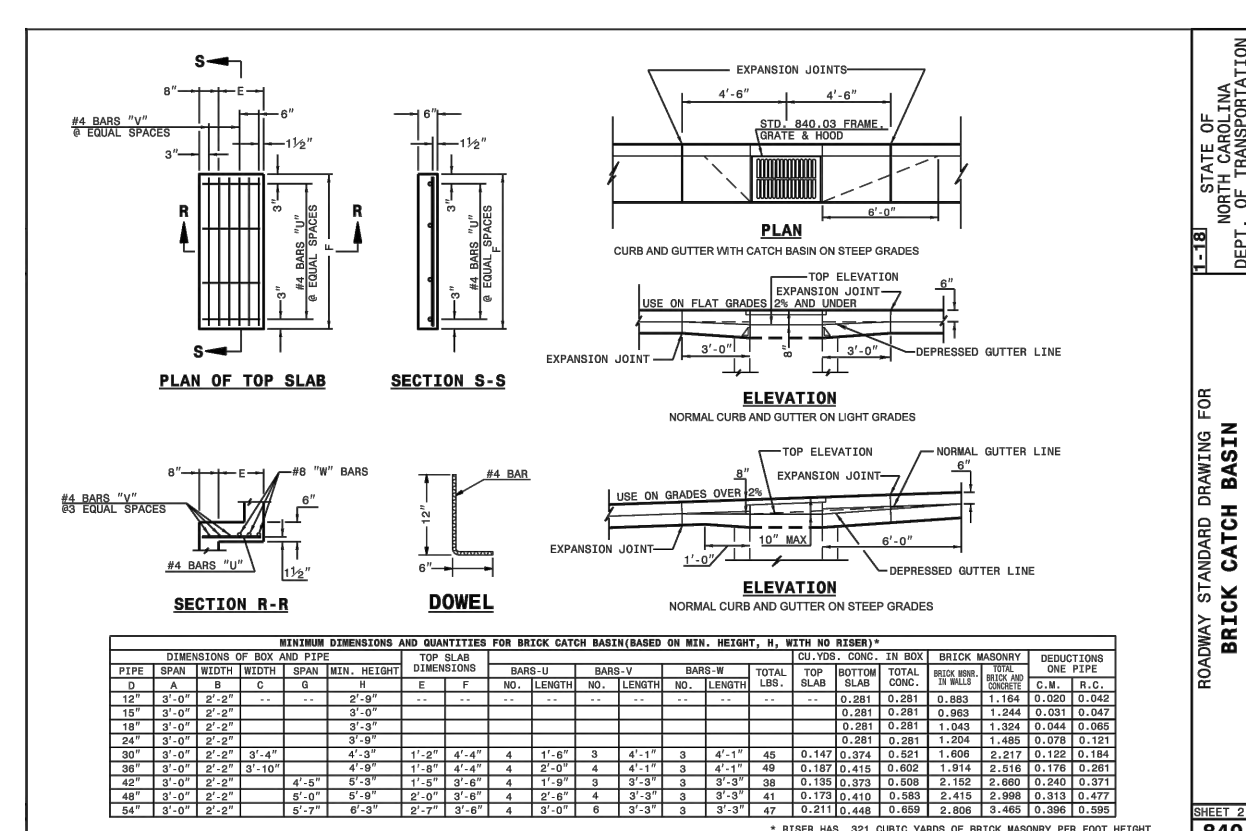
ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN FOR USE ON STANDARD CATCH BASIN DIVISION OF HIGHWAY DEPARTMENT OF TRANSPORTATION, N.C.



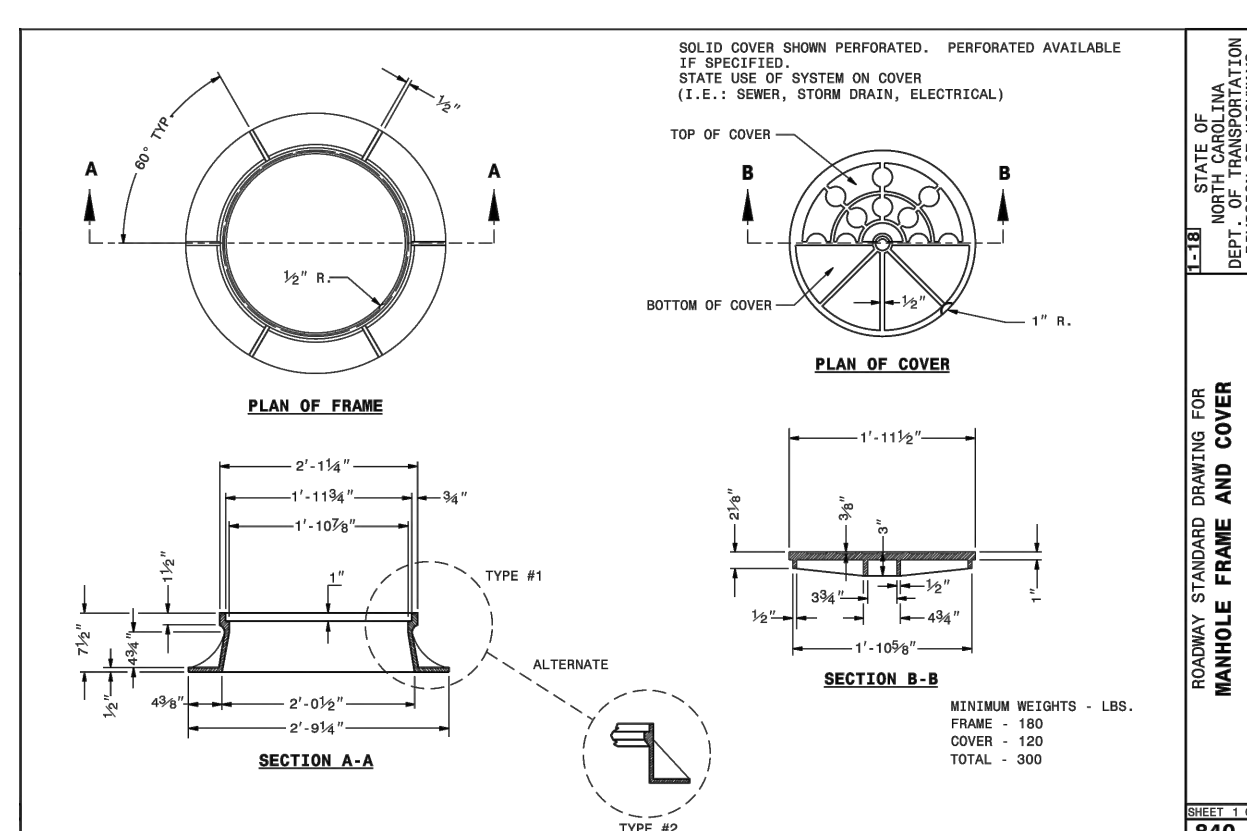
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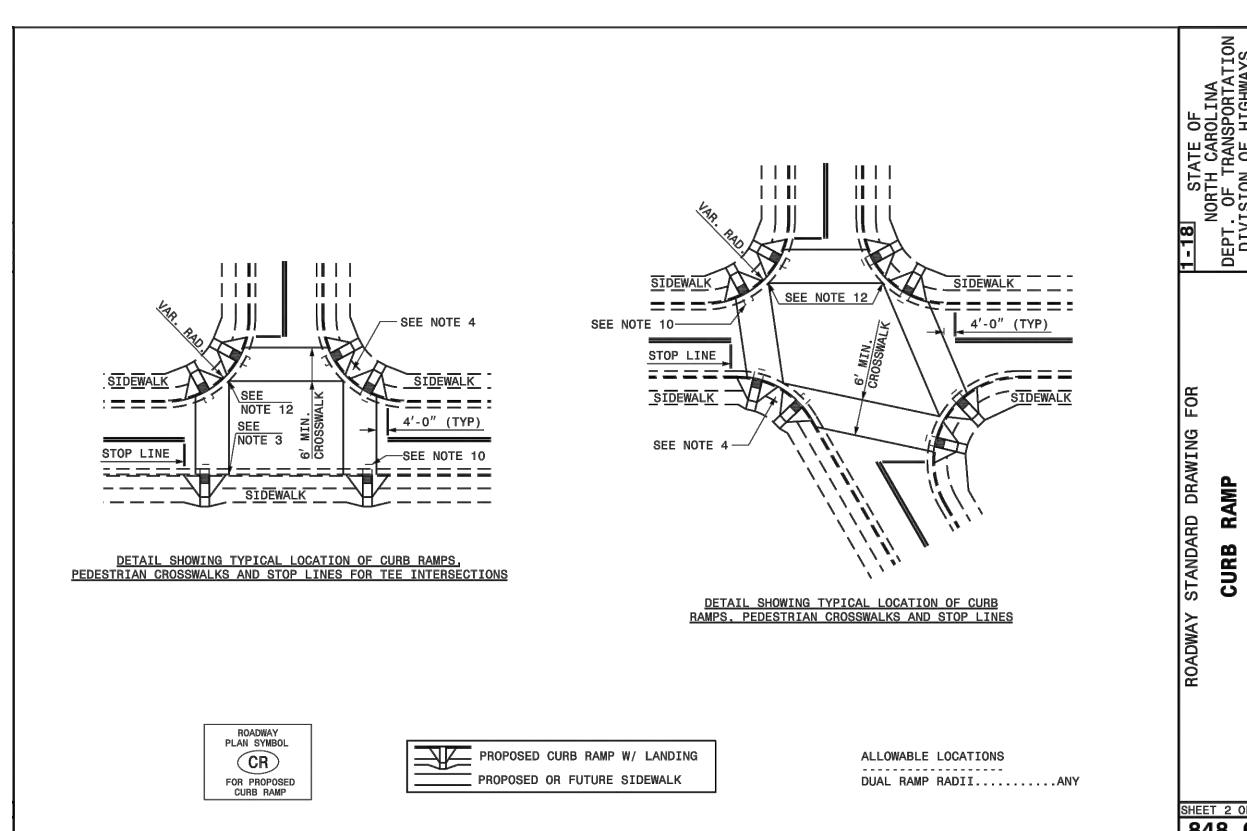
ROADWAY STANDARD DRAWING FOR CURB RAMP PROPOSED CURB AND GUTTER DIVISION OF HIGHWAY DEPARTMENT OF TRANSPORTATION, N.C.



ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN FOR USE ON STANDARD CATCH BASIN DIVISION OF HIGHWAY DEPARTMENT OF TRANSPORTATION, N.C.



ROADWAY STANDARD DRAWING FOR MANHOLE FRAME AND COVER DIVISION OF HIGHWAY DEPARTMENT OF TRANSPORTATION, N.C.



ROADWAY STANDARD DRAWING FOR CURB RAMP PROPOSED CURB AND GUTTER DIVISION OF HIGHWAY DEPARTMENT OF TRANSPORTATION, N.C.

Permanent Seeding Schedule

Date	Type	Planting Rate
Aug-15-Nov-1	Tall Fescue	300 lbs./acre
Nov-1-Mar-1	Tall Fescue & Abruzzi Rye	300 lbs./acre
Mar-1-Apr-15	Tall Fescue	300 lbs./acre
Apr-15-Jun-30	Hulled Common Bermudagrass	25 lbs./acre
Jul-1-Aug-15	Tall Fescue and Browntop Millet	120 lbs./acre

Slopes (3:1 to 2:1)

Date	Type	Planting Rate
Mar-1-Jun-1	Sericea Lespedeza (Scarified) & Add Tall Fescue	50 lbs./acre
(Mar-1-Apr-15)	Or Add Hulled Common Bermudagrass	120 lbs./acre
(Mar-1-June-30)	Tall Fescue and Browntop Millet	120 lbs./acre
Jun-1-Sep-1	Tall Fescue and Browntop Millet	35 lbs./acre
Sep-1-Mar-1	Sericea Lespedeza (unhulled-uncarified) and Tall Fescue	70 lbs./acre
(Nov-1-Mar-1)	Add Abruzzi Rye	25 lbs./acre

Consult Conservation Engineer or Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.

Seeding Preparation

- 1.) Chisel compacted areas and spread topsoil 3 inches deep over adverse soil conditions, if available.
- 2.) Rip the entire area to 6 inches depth.
- 3.) Remove all loose rock, roots, and other obstructions leaving surface reasonably smooth and uniform.
- 4.) Apply agricultural lime, fertilizer, and superphosphate uniformly and mix with soil (see below).
- 5.) Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared 4 to 6 inches deep.
- 6.) Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
- 7.) Mulch immediately after seeding and anchor mulch.
- 8.) Inspect all seeded areas and make necessary repairs or reseedings within the planting season. If possible, if stand should be over 60% damaged, reestablish following original lime, fertilizer and seeding rates.
- 9.) Consult Conservation Inspector on maintenance treatment and fertilization after permanent cover is established.

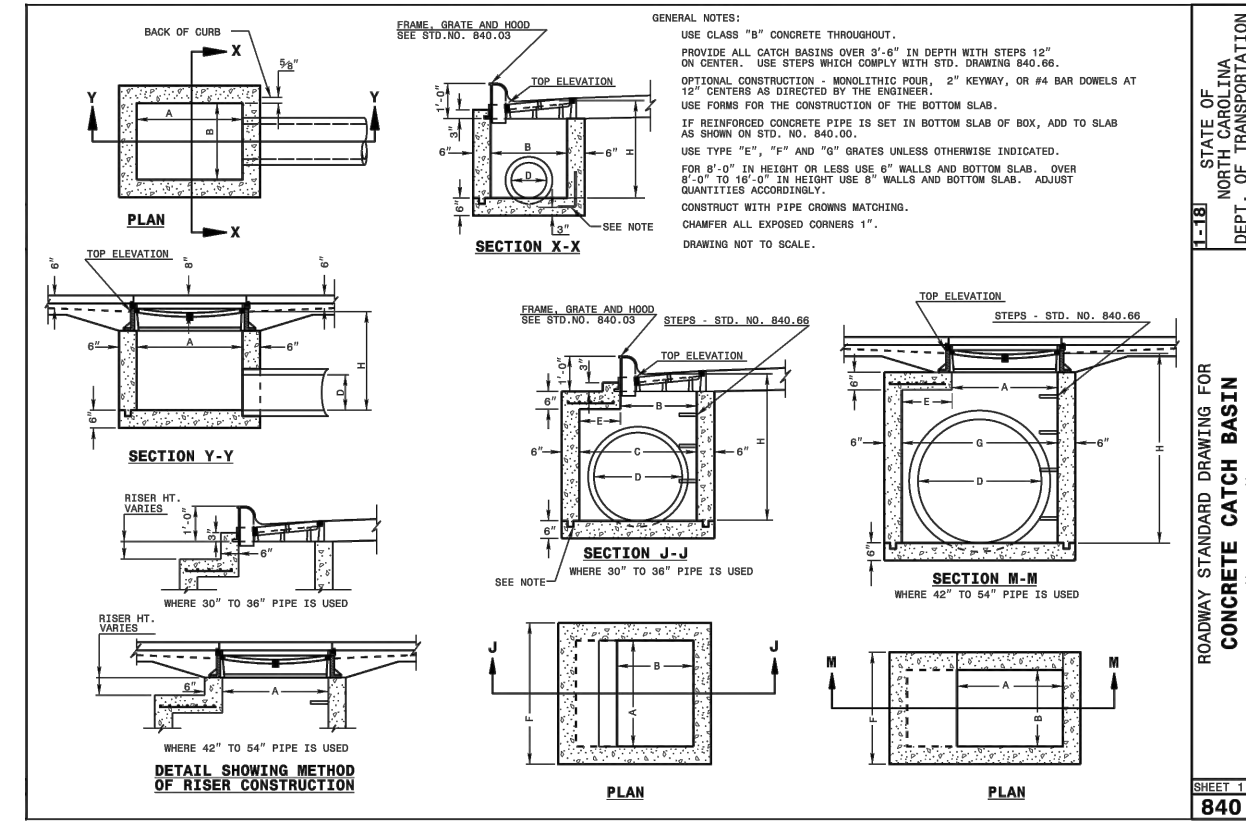
- * Apply Agricultural Limestone - 2 tons/acre (3 tons/acre in clay soils)
- Fertilizer - 1,000 lbs./acre - 10-10-10
- Superphosphate - 500 lbs./acre - 20% analysis
- Mulch - 2 tons/acre - small grain straw
- Anchor - Asphalt Emulsion @ 300 gals./acre

MAINTENANCE SPECIFICATIONS FOR EROSION CONTROL DEVICES

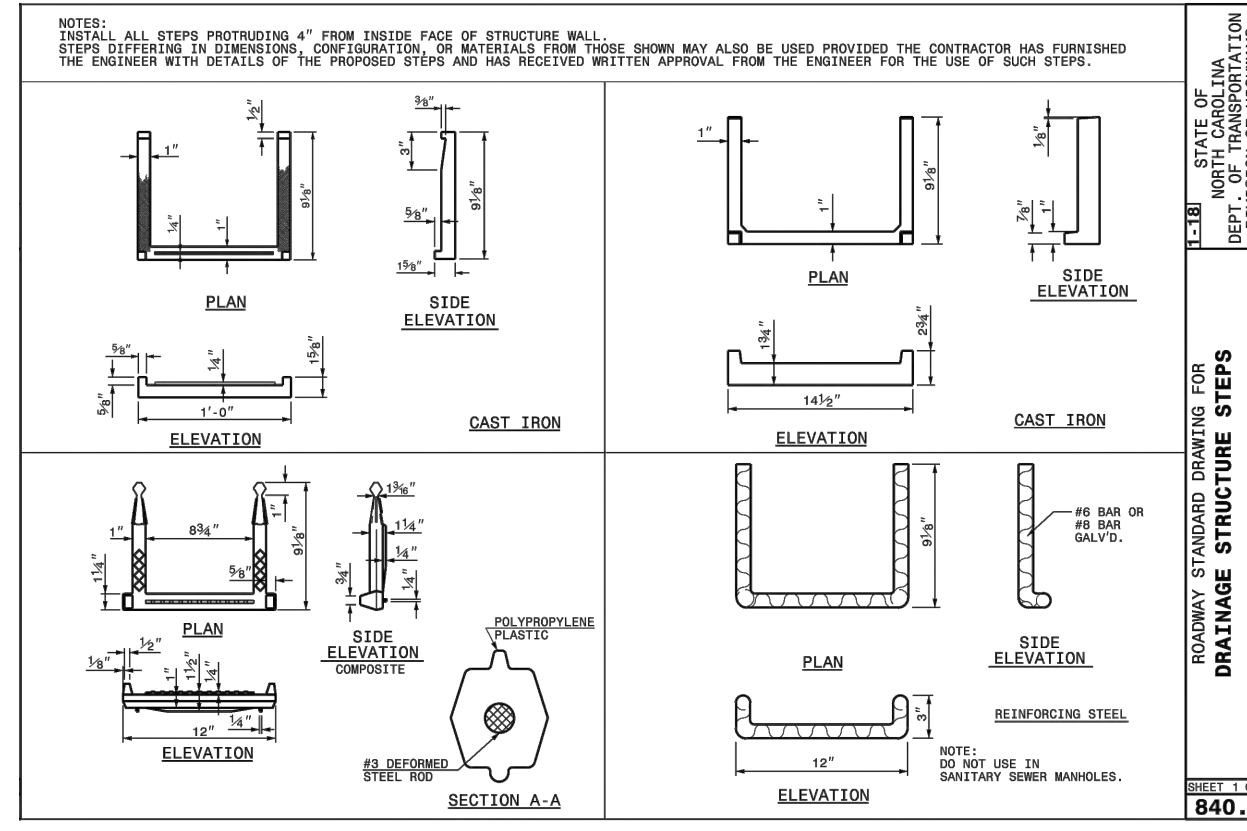
Skimmer Sediment Basin with Baffles
Inspect skimmer sediment basins at least weekly and after each significant (one-half inch or greater) rainfall event and repair immediately. Remove sediment and restore the basin to its original dimensions when sediment accumulates to one-half the height of the first baffle. Pull the skimmer to one side so that the sediment underneath it can be excavated. Excavate the sediment from the entire basin, not just around the skimmer or the first cell. Make sure vegetation growing in the bottom of the basin does not hold down the skimmer.
Repair the baffles if they are damaged. Re-anchor the baffles if water is flowing underneath or around them.
If the skimmer is clogged with trash and there is water in the basin, usually jacking on the rope will make the skimmer bob up and down and dislodge the debris and restore flow. If this does not work, pull the skimmer over to the side of the basin and remove the debris. Also check the orifice inside the skimmer to see if it is clogged, if so remove the debris.
If the skimmer arm or barrel pipe is clogged, the orifice can be removed and the obstruction cleared with a plumber's snake or by flushing with water. Be sure and replace the orifice before repositioning the skimmer.

Silt Fence
Install silt fence at least one week and after each rainfall. Make any required repairs immediately.
Should the fabric of a sediment fence collapse, tear, decompose or become ineffective, replace it promptly.
Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanup.
Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

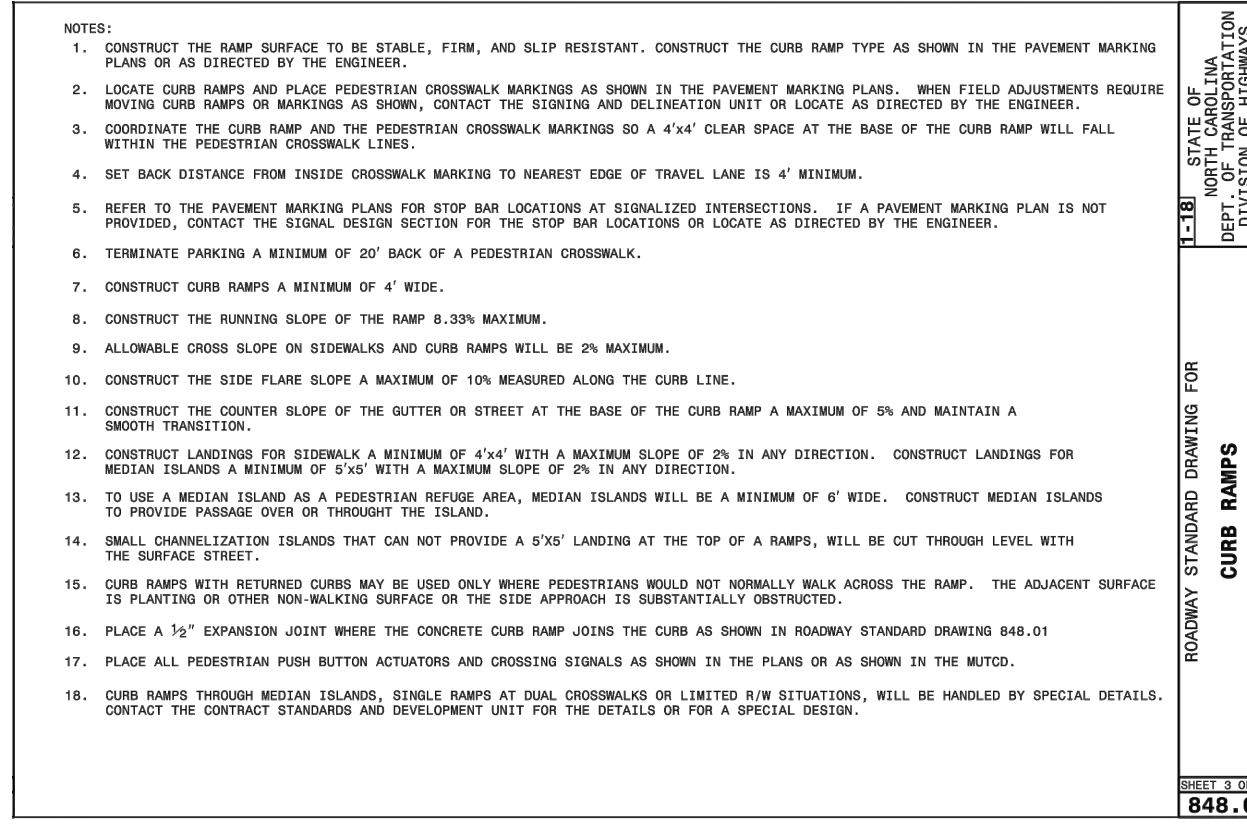
Construction Entrance
Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone. After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. Immediately remove all objectionable materials spilled, washed, or tracked onto public roadways.



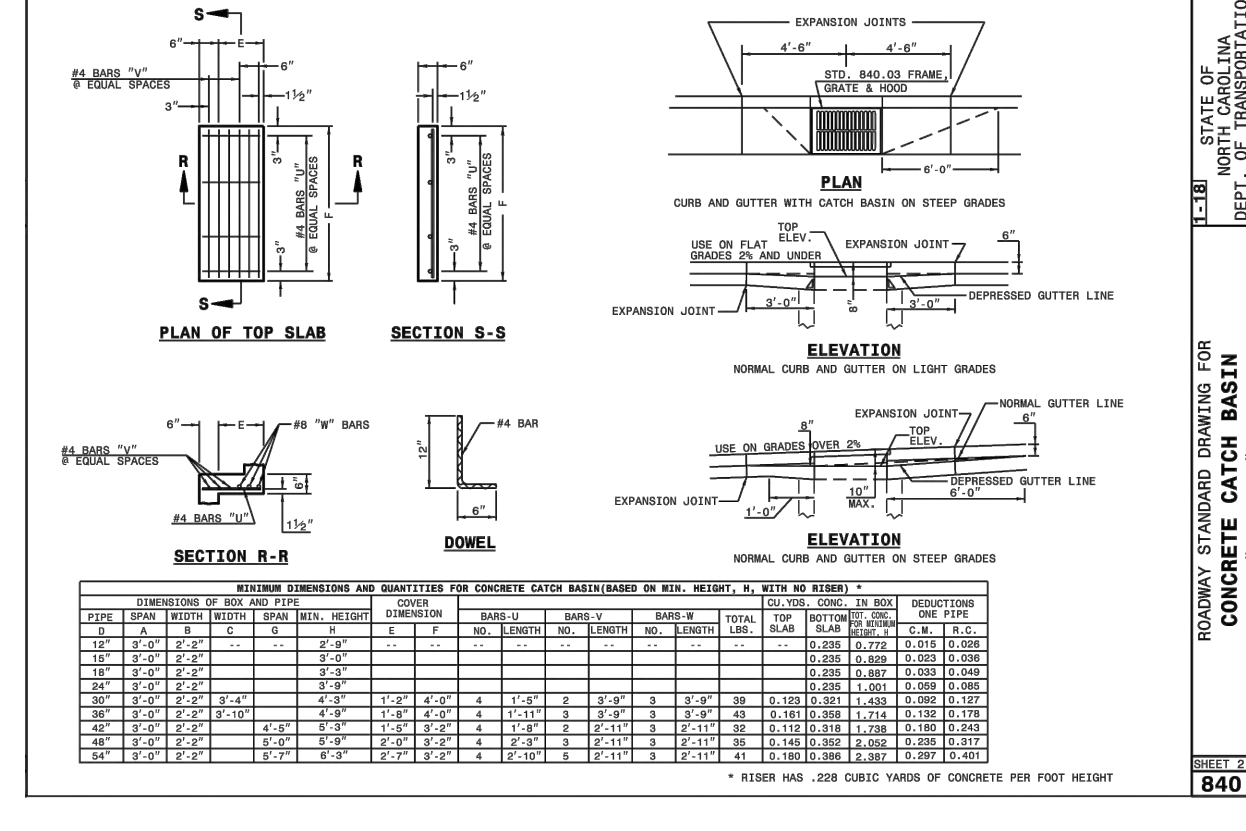
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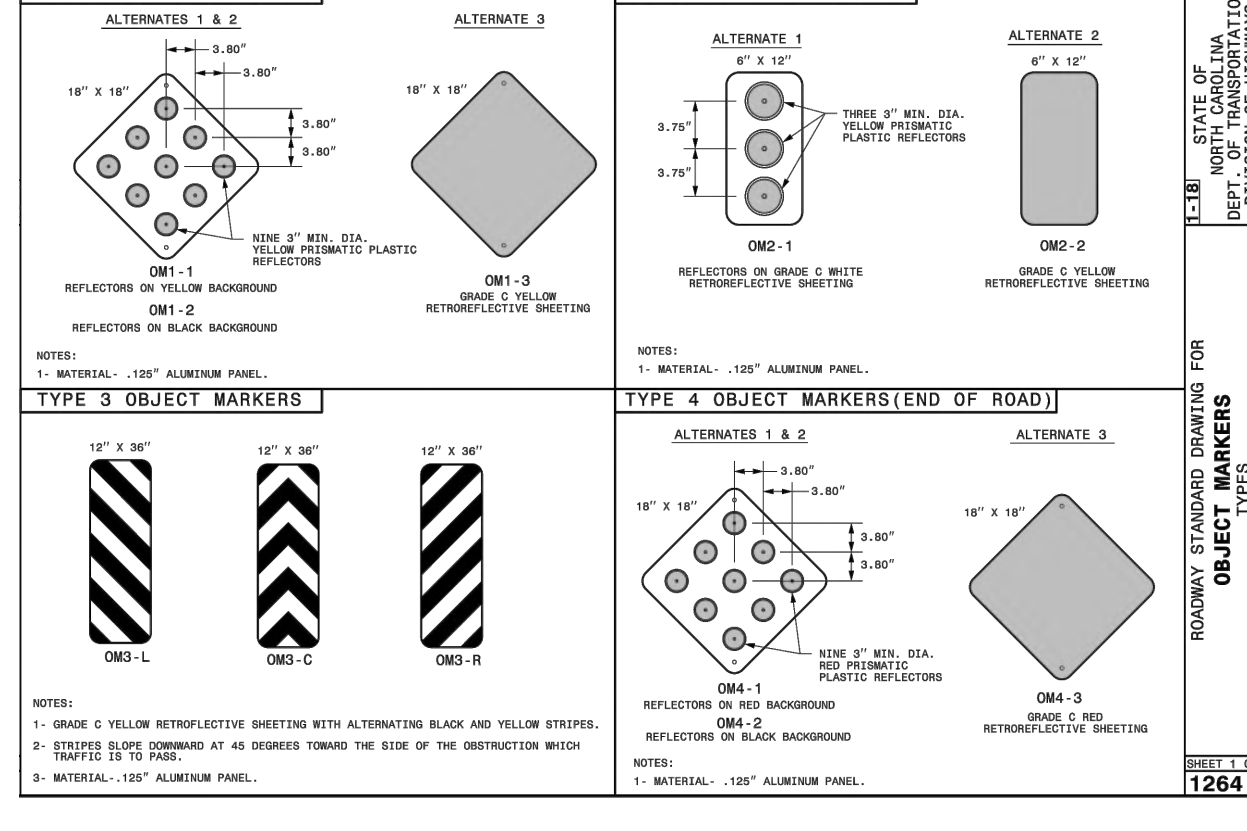
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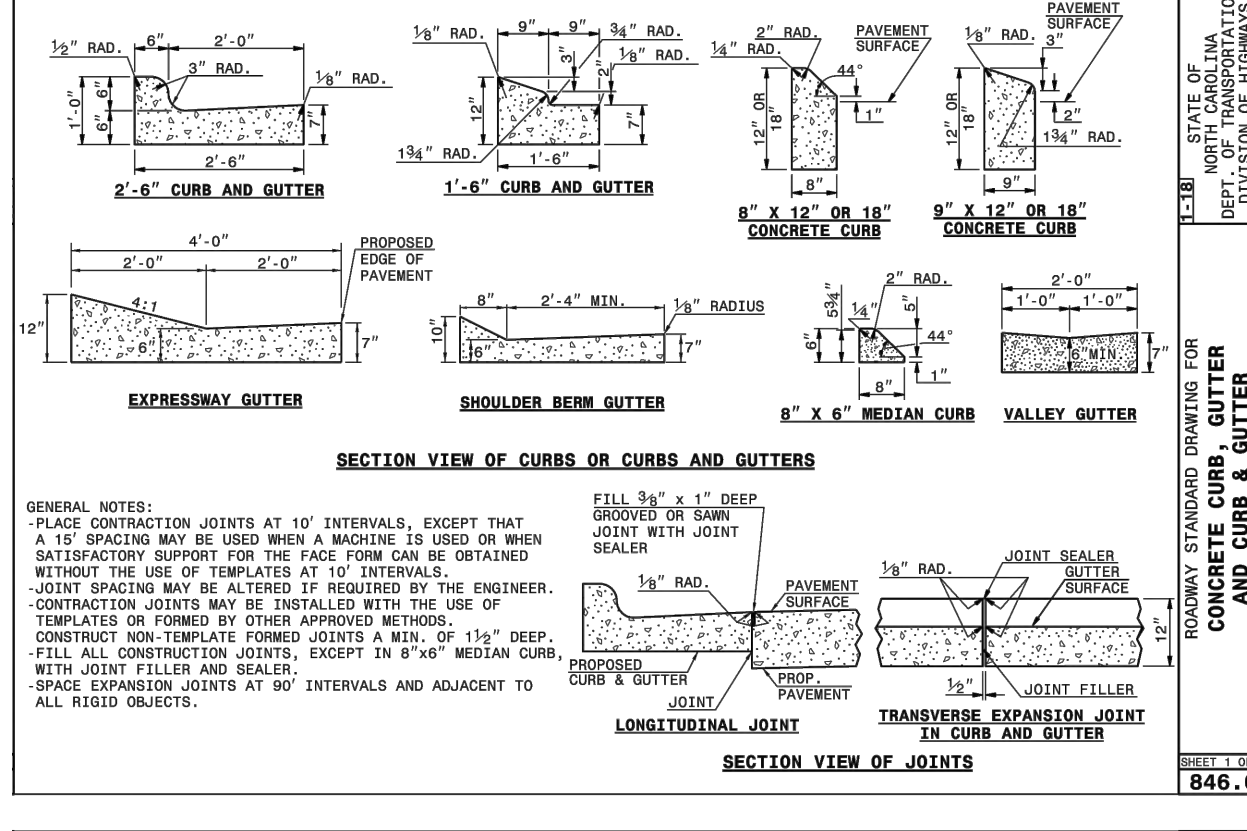
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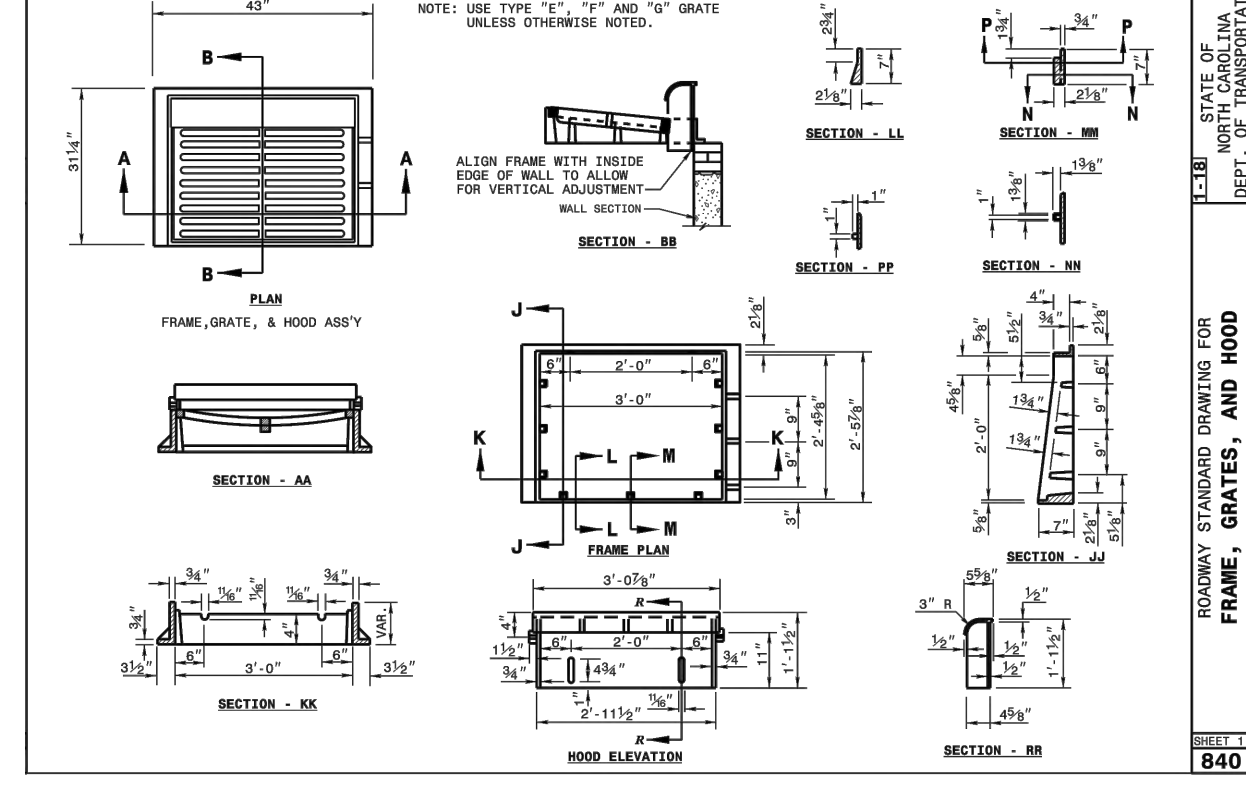
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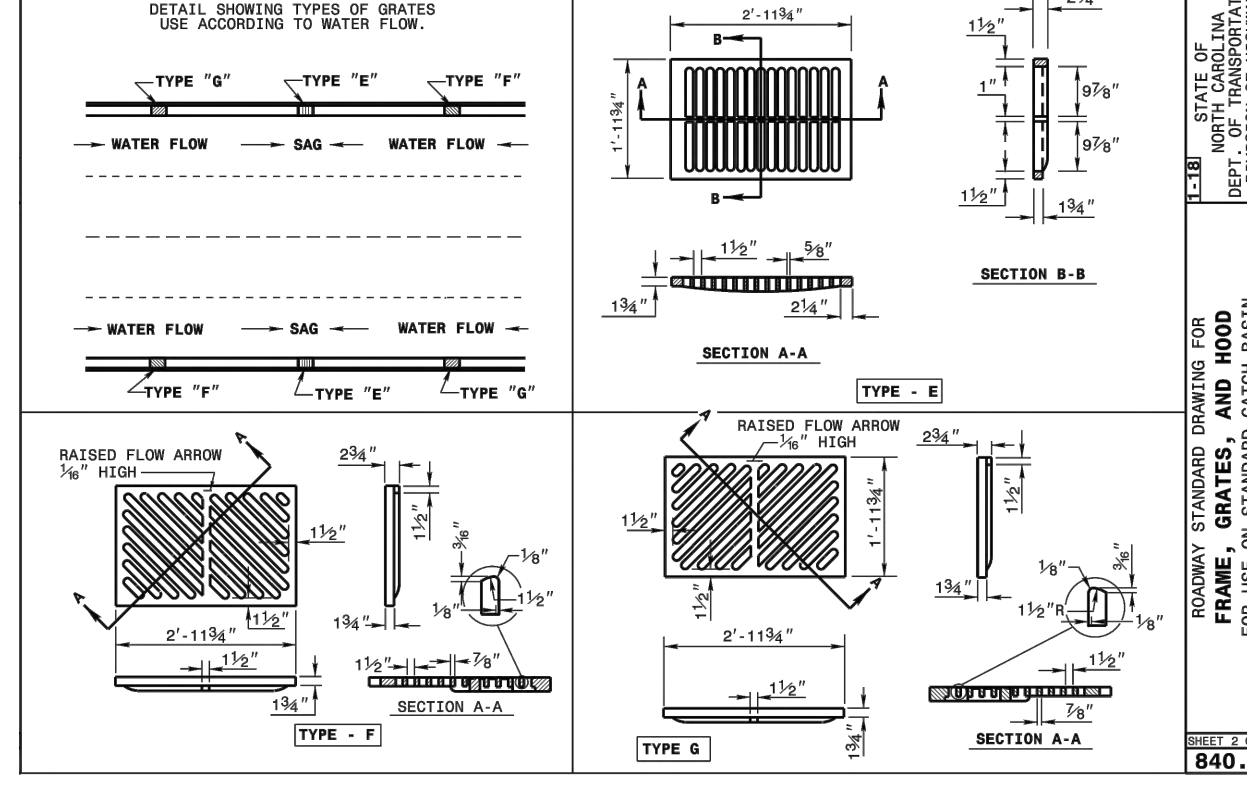
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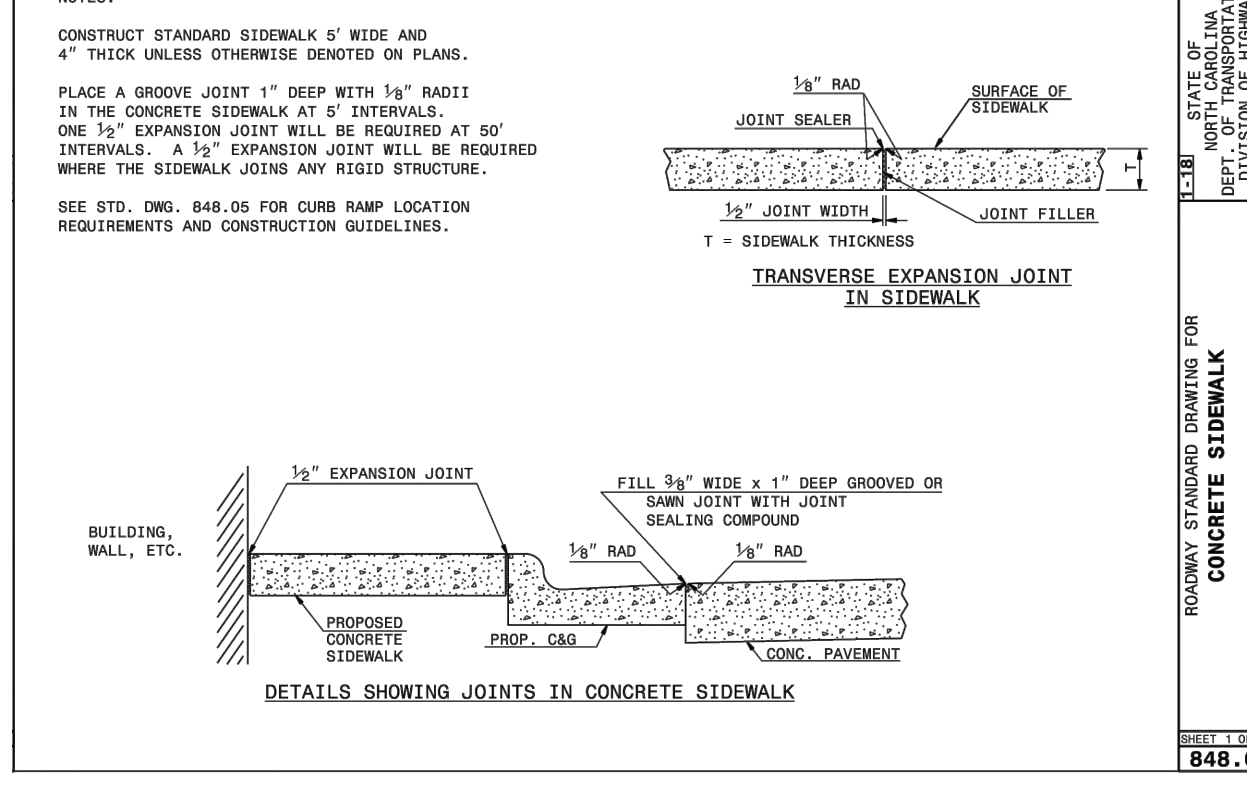
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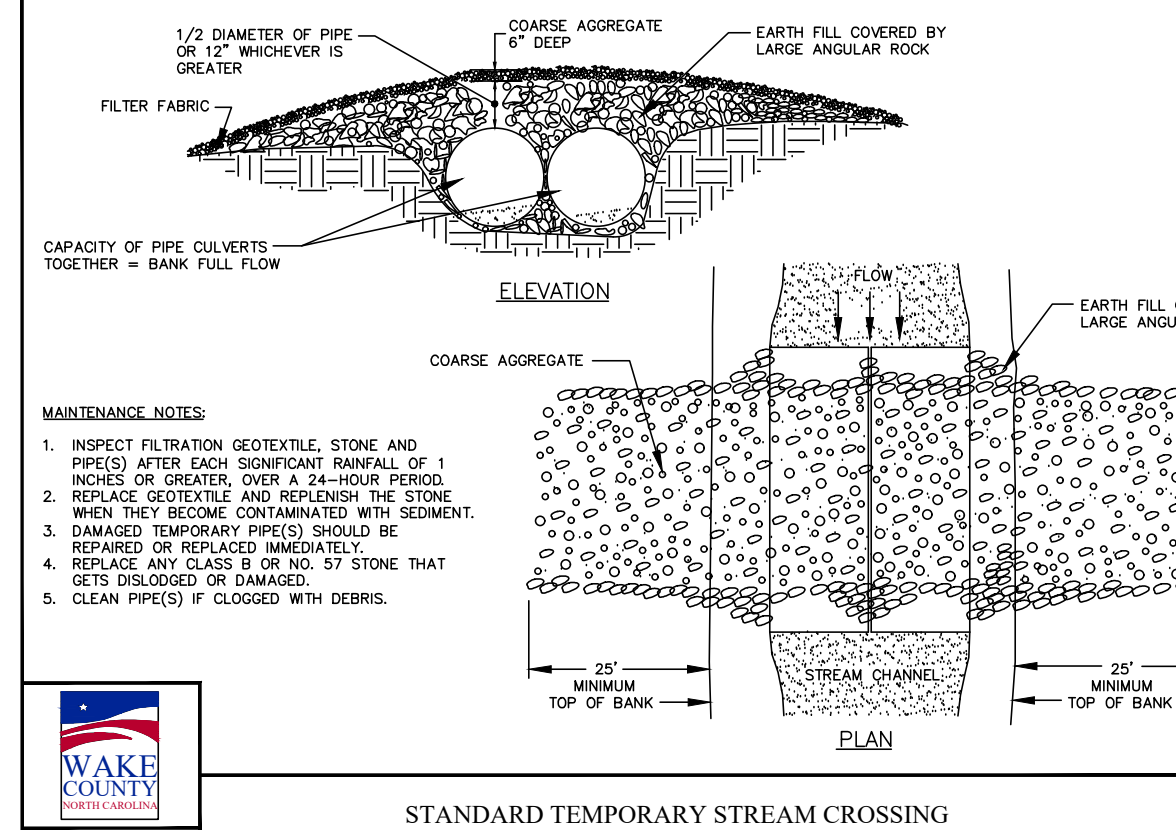
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Revisions
07.13.22-06.12.23 Per City/Town 1st-5th review
10.19.23 Per Wake Co review
01.31.24 Per Wake Co review
08.01.24 Per Wake Co review
09.05.24 Per Wake Co review
10.07.24 Per Wake Co review

Owner:
Watson Family II LLC
6220 Forestville Road
Raleigh NC 27604
919.819.5509

Project
Clifton Grove

Details

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Scale
None
Sheet



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**PART III
 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION
 Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurements for those unattended days (and this will decrease if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-measuring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands on-site or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Record of the required reports to the appropriate Division Regional Office per Part III, Section C, Item 2(j) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground covers). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

**PART III
 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation
 The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
 In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
 (a) This General Permit as well as the Certificate of Coverage, after it is received.
 (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years
 All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III
 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that Must be Reported
 Permittees shall report the following occurrences:
 (a) Visible sediment deposition in a stream or wetland.
 (b) Oil spills if:
 • They are 25 gallons or more,
 • They are less than 25 gallons but cannot be cleaned up within 24 hours,
 • They cause sheen on surface waters (regardless of volume), or
 • They are within 100 feet of surface waters (regardless of volume).
 (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
 (d) Anticipated bypasses and unanticipated bypasses.
 (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
 After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 339(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses 140 CFR 122.41(m)(3)	<ul style="list-style-type: none"> • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses 140 CFR 122.41(m)(3)	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment 40 CFR 122.41(l)(7)	<ul style="list-style-type: none"> • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(l)(6)]. • Division staff may waive the requirement for a written report on a case-by-case basis.

**PART II, SECTION G, ITEM (4)
 DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item 2(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
 Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

NOTE: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION
 Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> • Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting 	<ul style="list-style-type: none"> • Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Secure staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

ON-SITE CONCRETE WASHOUT STRUCTURE WITH LINER

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

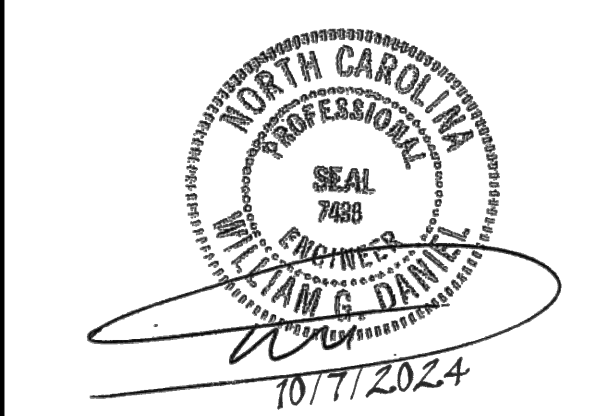
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19





Revisions
 07.13.22-06.12.23 Per City/Town 1st-5th review
 10.19.23 Per Wake Co review
 01.31.24 Per Wake Co review
 08.01.24 Per Wake Co review
 09.05.24 Per Wake Co review
 10.07.24 Per Wake Co review

Owner:
 D.R. Horton, Inc.
 7208 Falls of Neuse Road
 Raleigh NC 27615
 919.497.2163

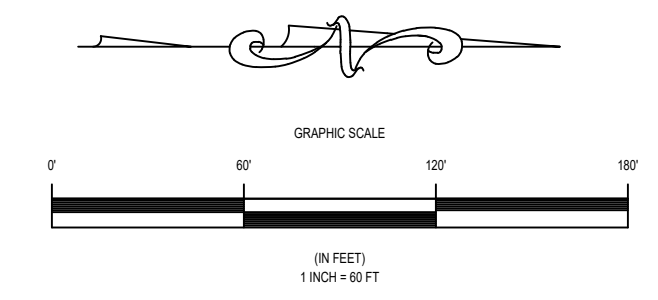
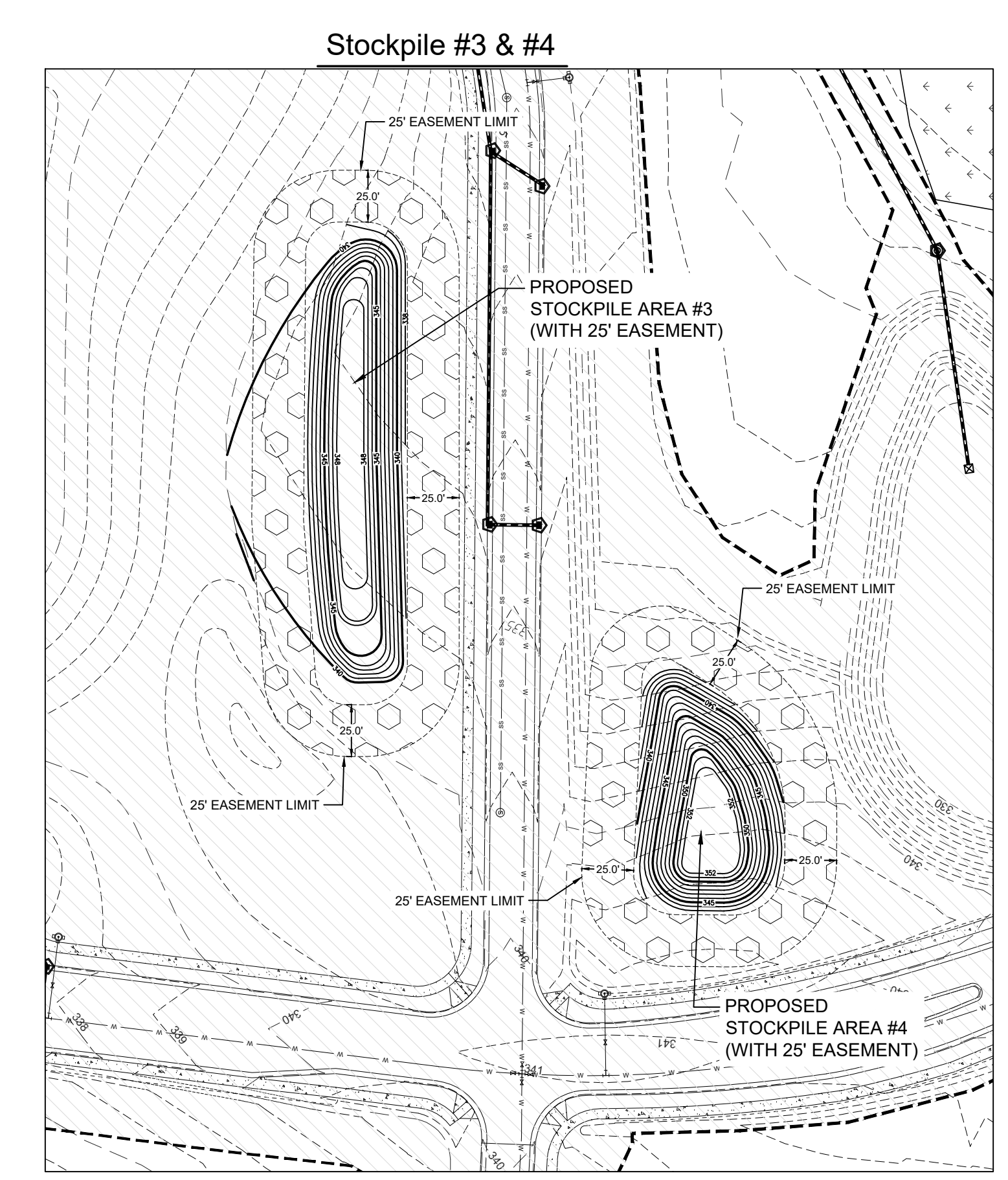
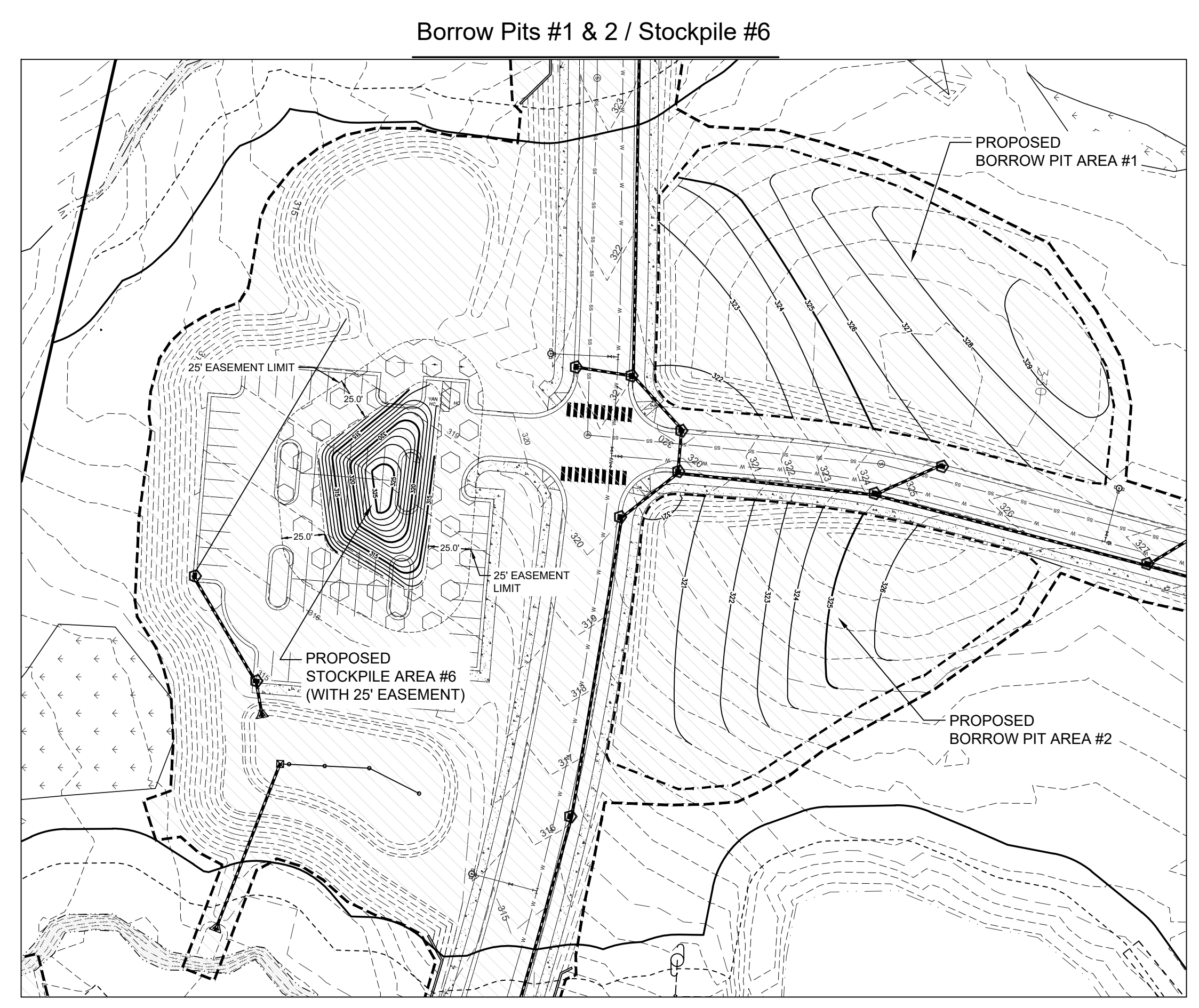
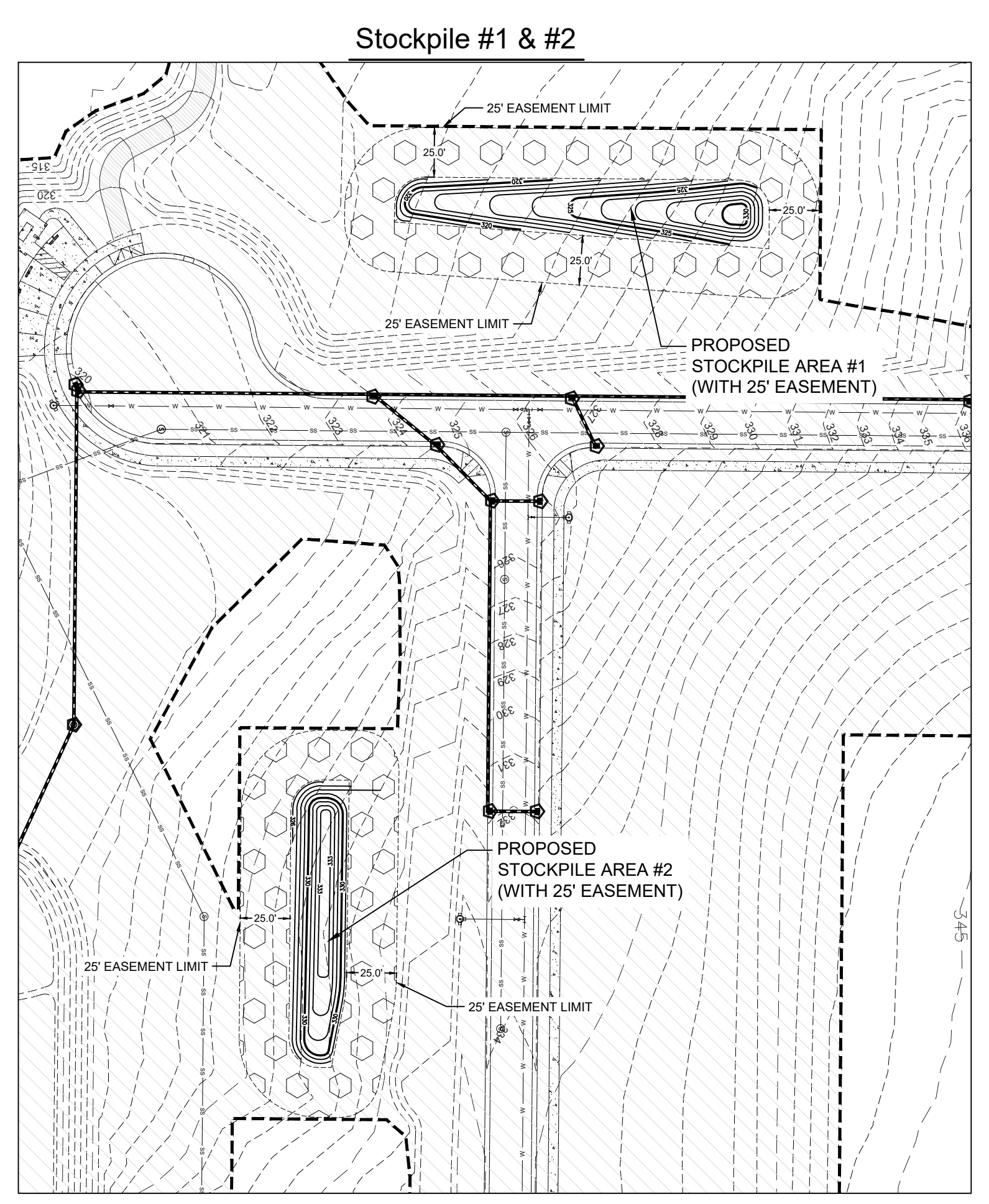
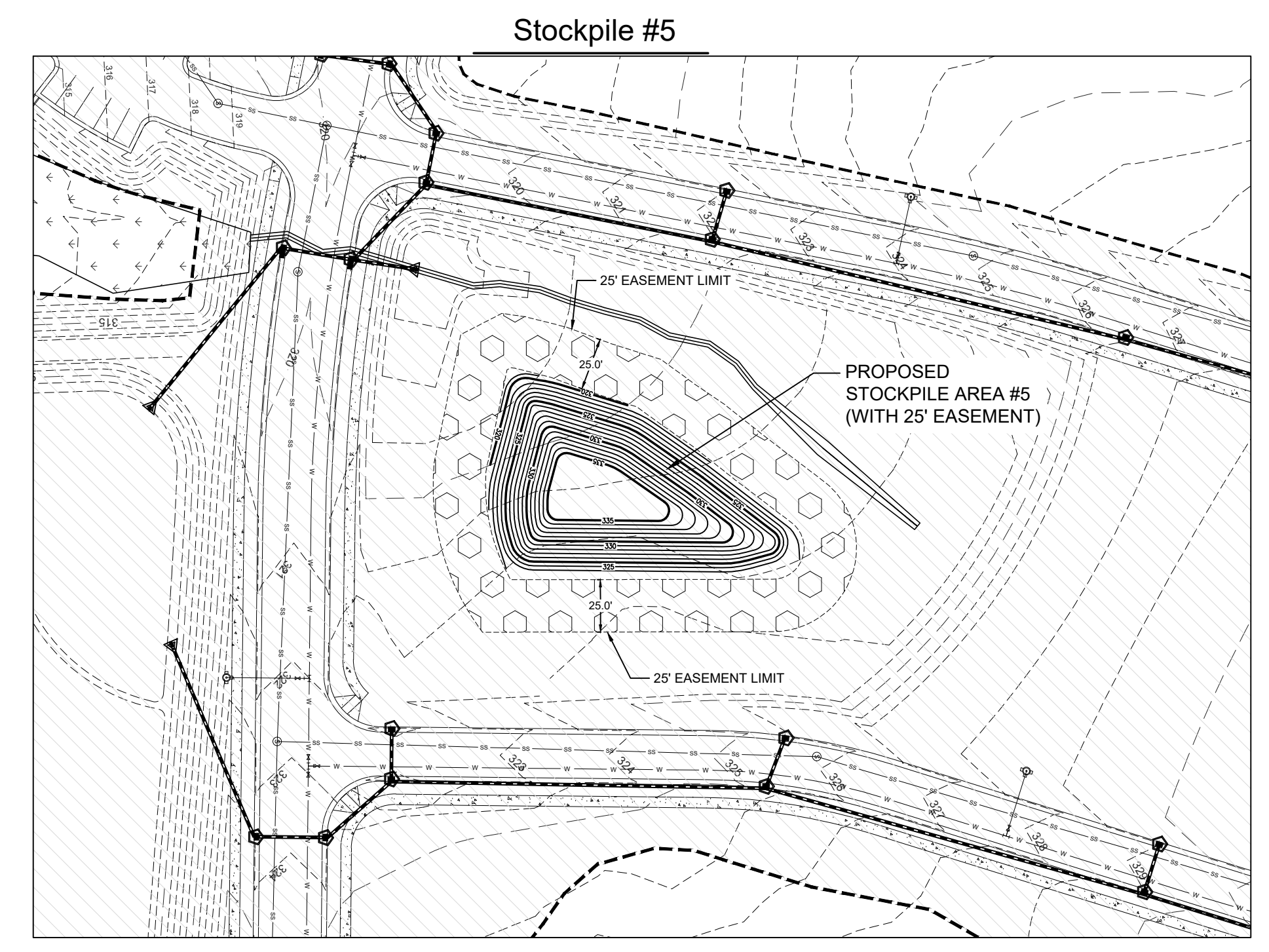
Project
 Clifton Grove

Erosion Control Plan
 Stockpile & Borrow Areas

Date
 February 15, 2022

Scale
 1" = 60'

Sheet
CS-51



- PROP TREE PROTECTION FENCE
- PROP COMBINATION SILT/TREE FENCE
- PROP SUPER SILT FENCE
- PROP STORM DRAINAGE
- PROP JUNCTION BOX
- PROP CATCH BASIN
- PROP FLARED END SECTION
- PROP INLET PROTECTION
- PROP DIVERSION DITCH
- PROP TEMPORARY CONSTRUCTION ENTRANCE
- PROP RISER/SKIMMER BASIN
- PROP CHECK DAM
- PROP SLOPE DRAIN
- DENUDED AREA (TYP)
- SILT OUTLET (TYP)
- STOCKPILE AREAS
- CLEAN WATER SWALE