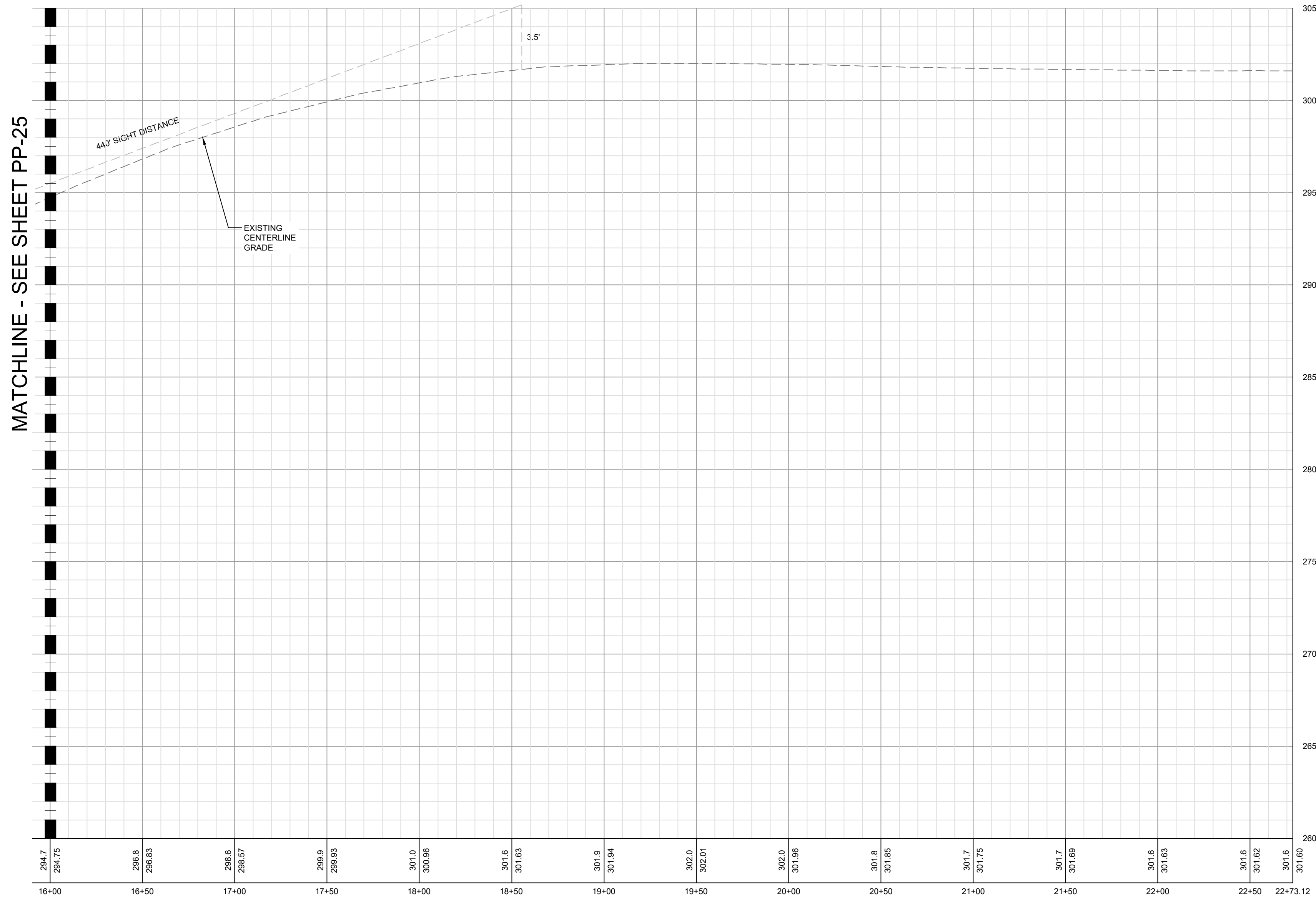
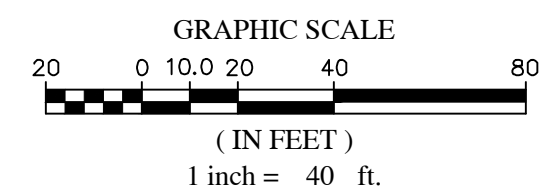


MATCHLINE - SEE SHEET PP-25



**PONY RD. PROFILE
STA 16+00 TO 22+73
60' PUBLIC R/W**



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WATER AND SEWER PERMITS

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-3863.

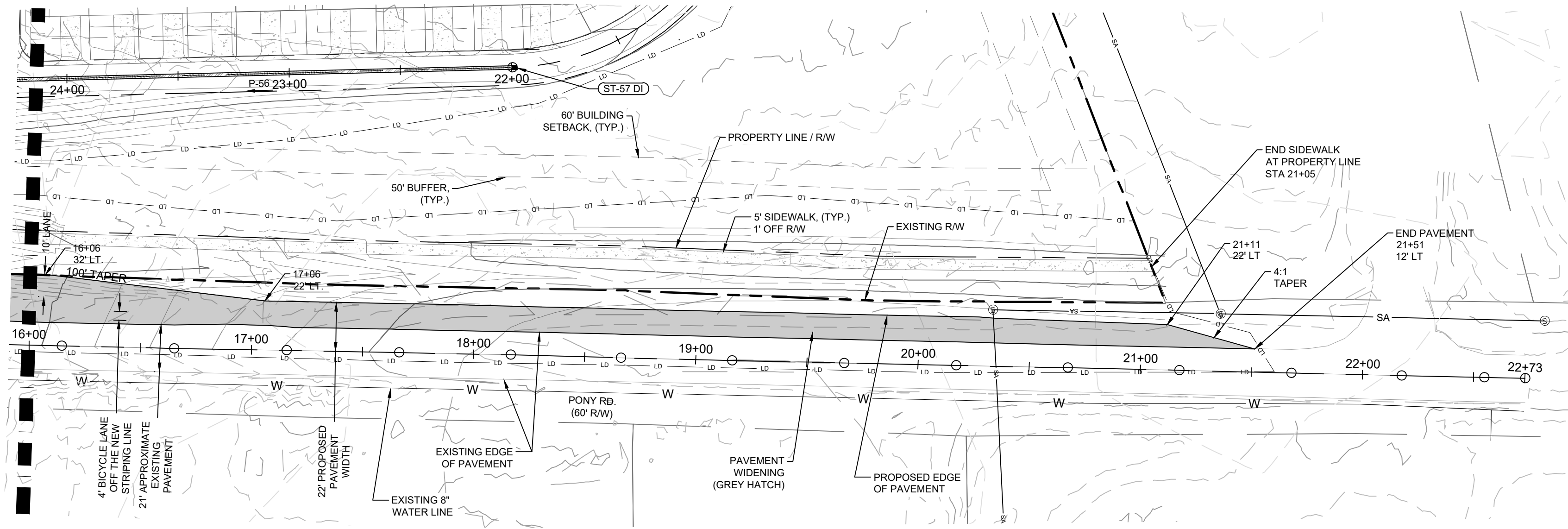
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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

MATCHLINE - SEE SHEET PP-25



| | | | |
|---|--|------------|-----|
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| 3 | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 | 04/06/2022 | DAS |
| 2 | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 | 02/25/2022 | DAS |
| 1 | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/23/2021 | 01/07/2022 | DAS |

COMPANY 2025
DESIGN AND
ENGINEERING SURV/CLS

PROJECT ENGINEER/ARCHITECT
AM/ALXKMGOT@SUMMITDE.NET

PROJECT MANAGER
DAS/DON.SCHER@SUMMITDE.NET

DRAWN BY
JA/JIMMY.ASHLEY@SUMMITDE.NET

FIRST ISSUE DATE
10/01/2021

SEAL
24627
09/01/2022

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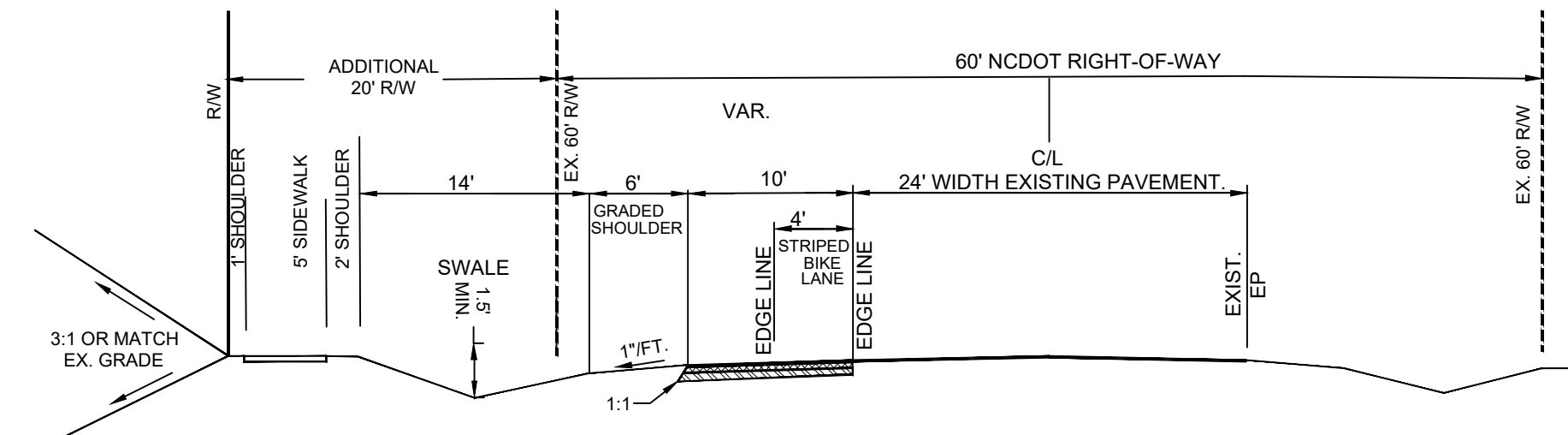
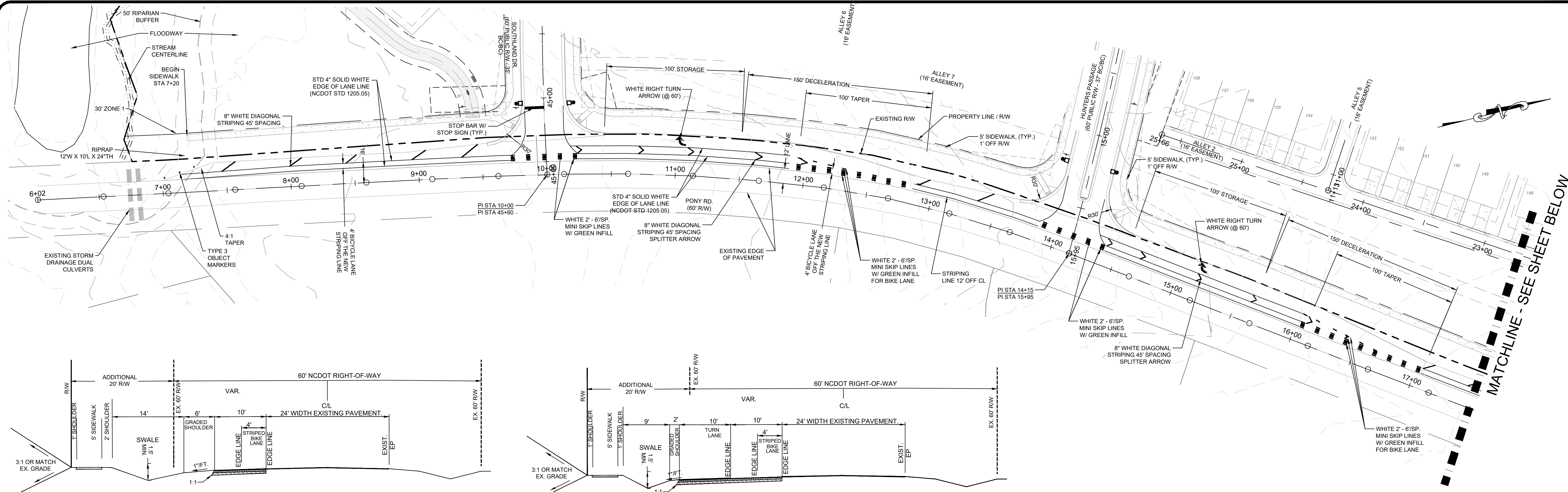
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

PONY RD. IMPROVEMENTS
STA 16+00 TO 22+73

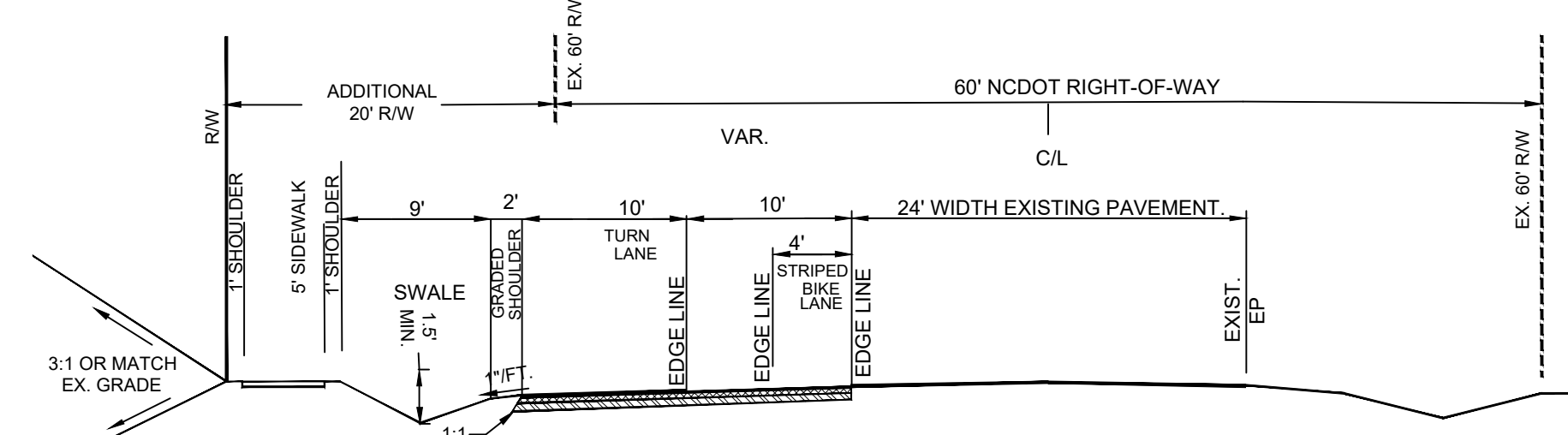
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19-0103

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19-0103_pony-rd-widening.dwg

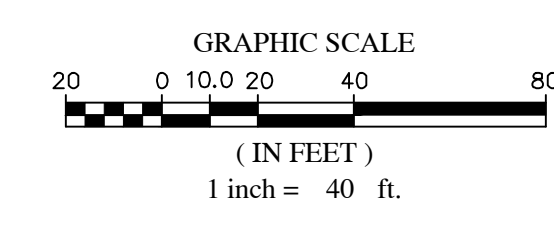
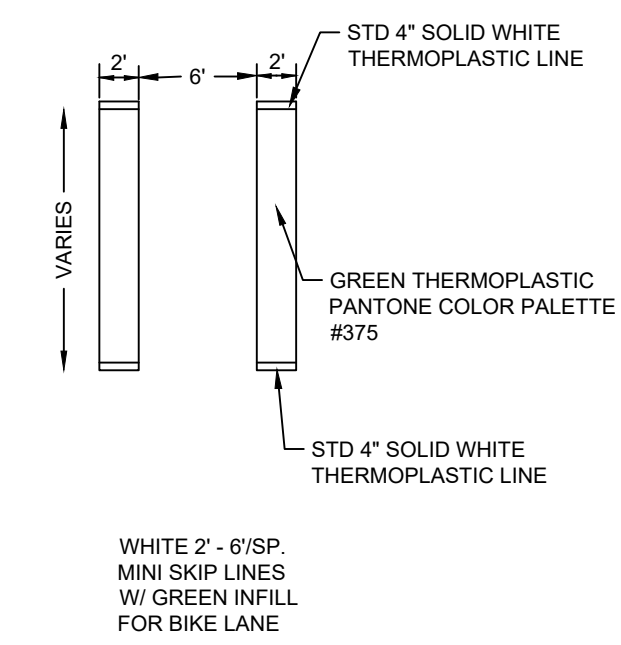
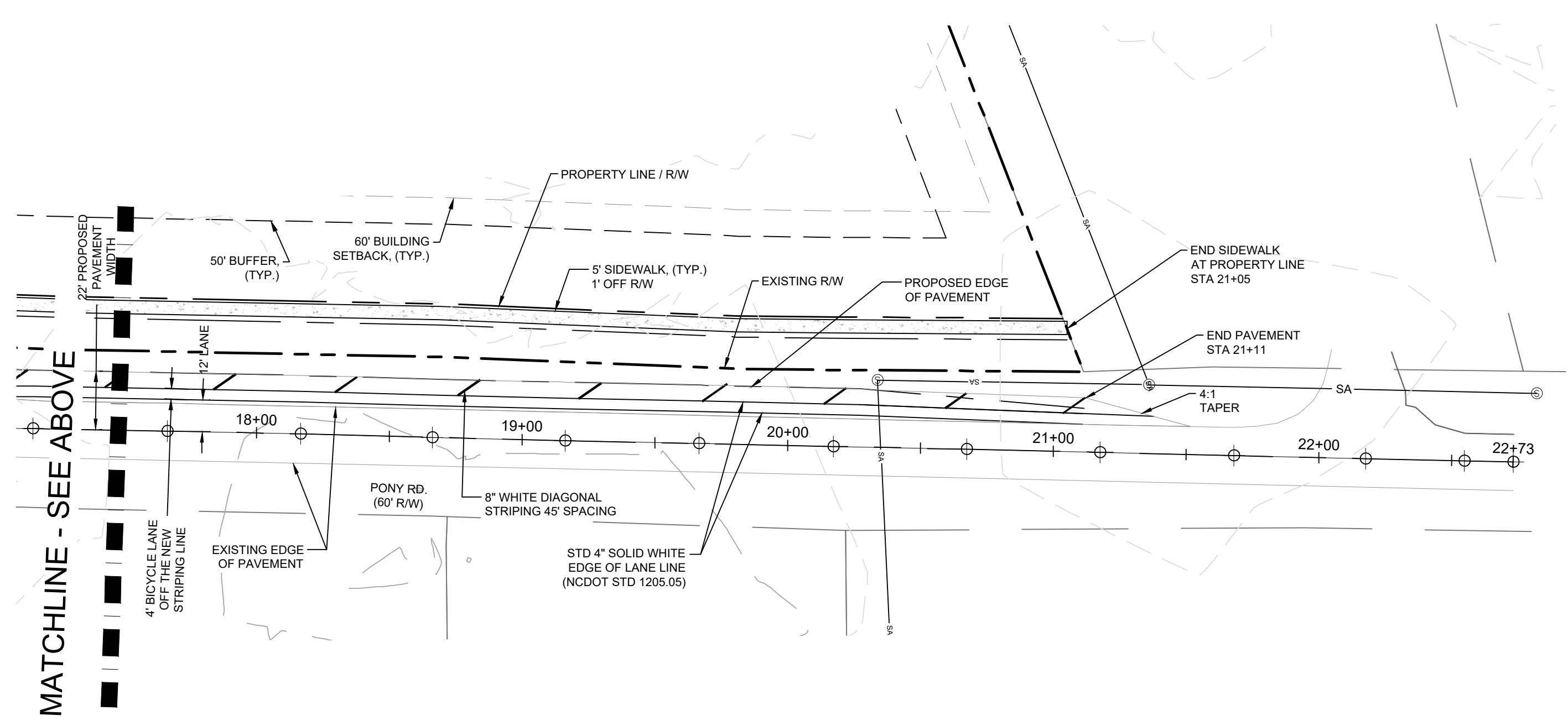
SHEET NO.
PP-25A



TYPICAL SECTION
NTS
PONY R. PROFILE
STA 7+00 TO 10+45
STA 12+95 TO 14+56
STA 17+06 TO 21+11



DROP RIGHT SECTION
NTS
PONY RD. PROFILE
STA 10+45 TO 11+95, 32' WIDE
STA 11+95 TO 12+95, 32' - 22' TAPER
PONY RD. PROFILE
STA 14+56 TO 16+06, 32' WIDE
STA 16+06 TO 17+06, 32' - 22' TAPER



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L.L.C.

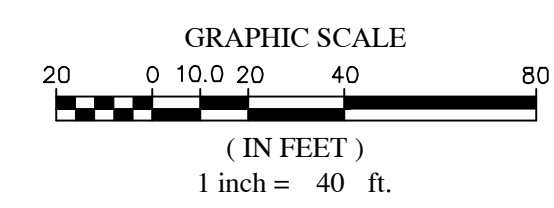
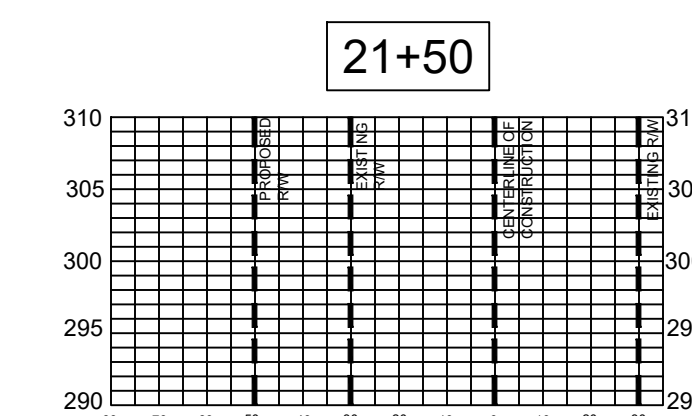
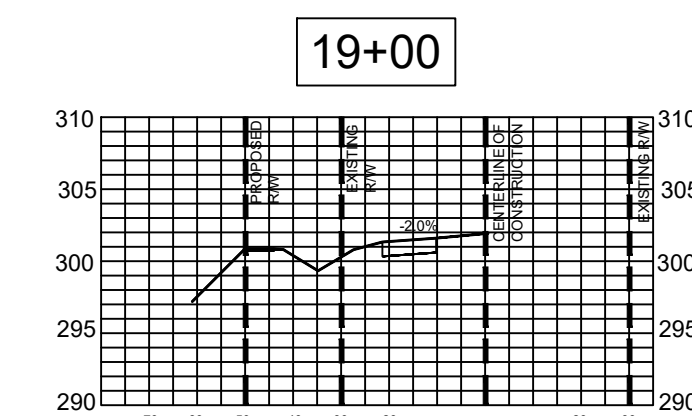
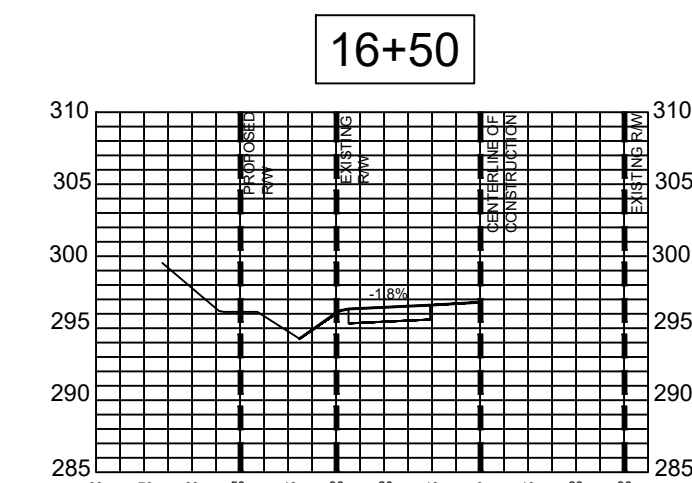
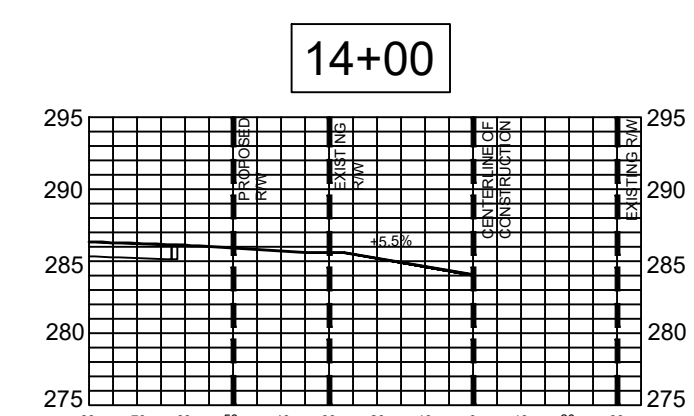
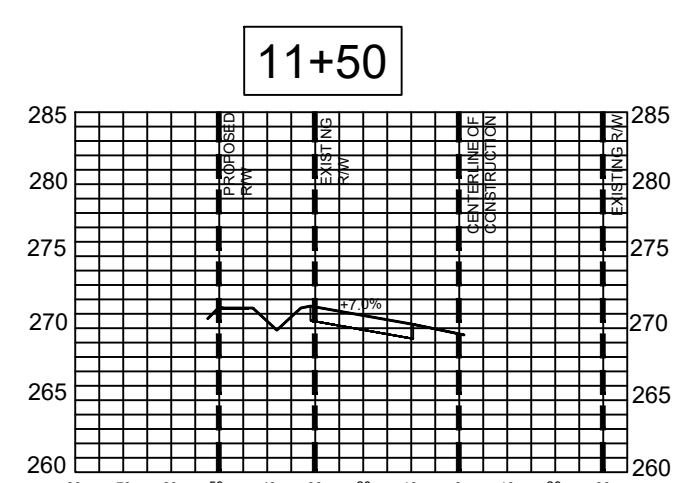
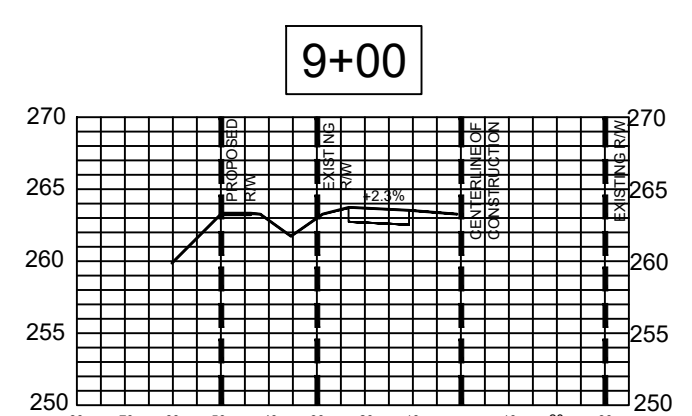
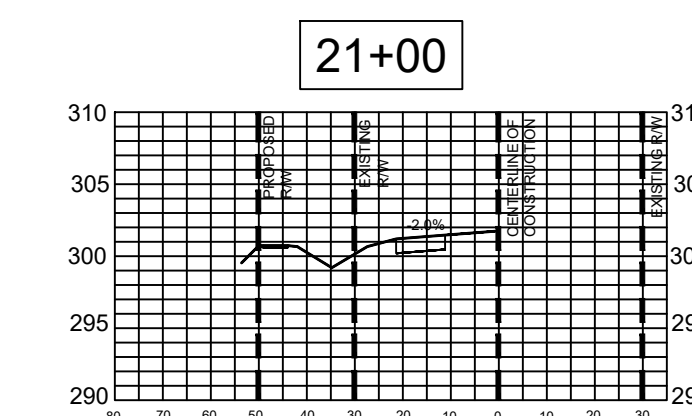
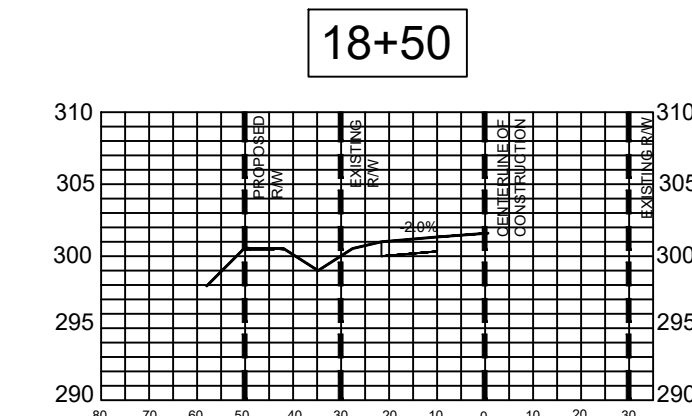
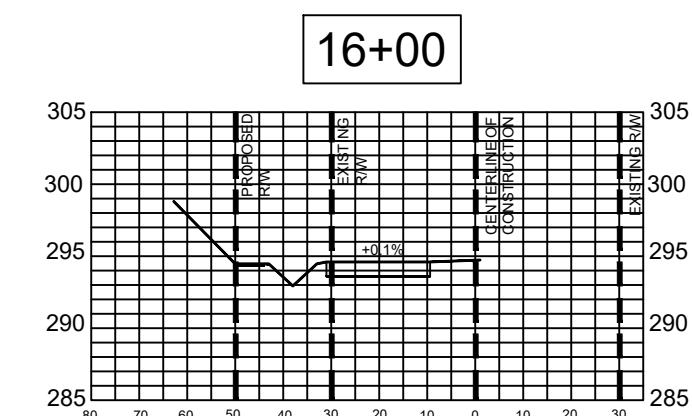
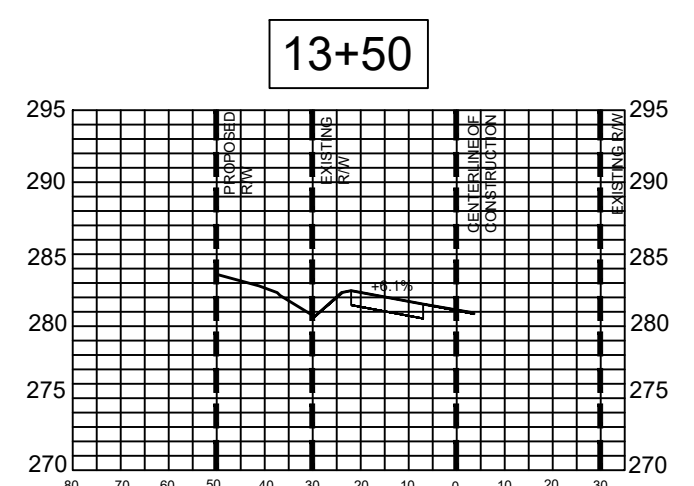
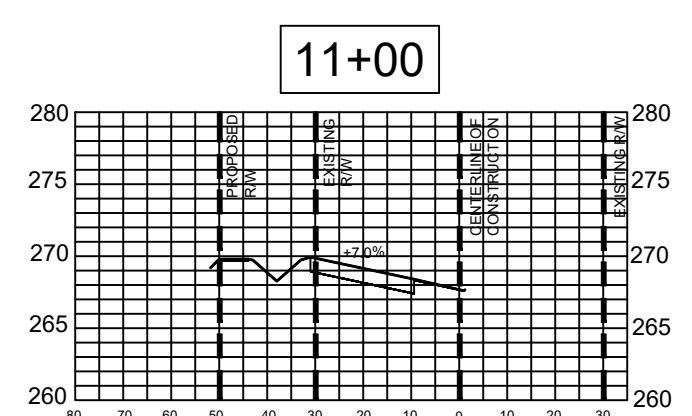
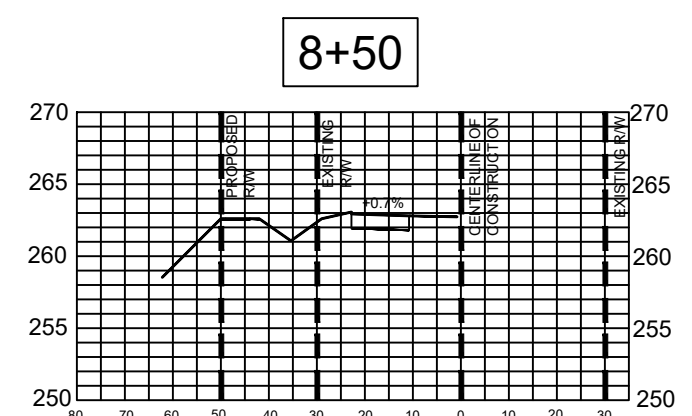
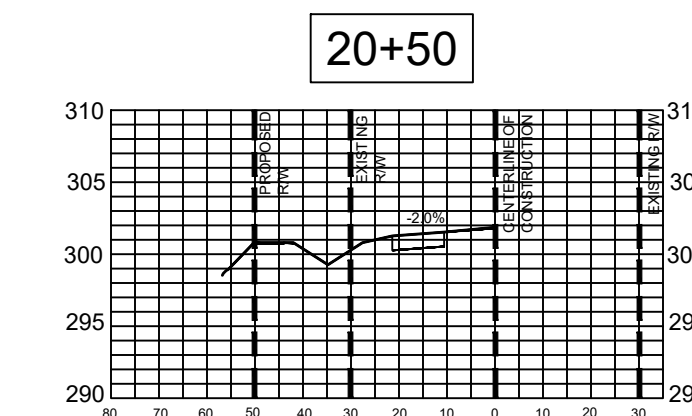
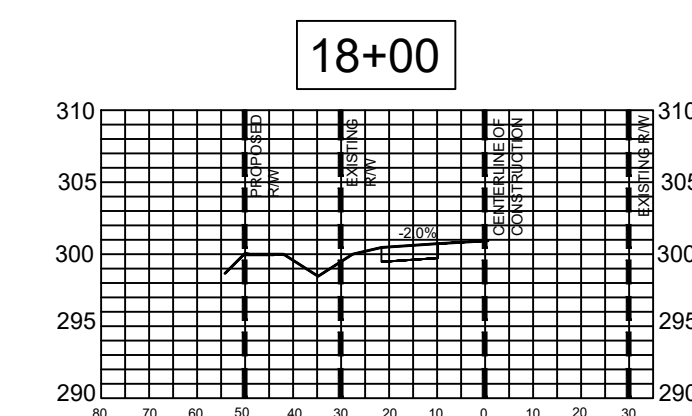
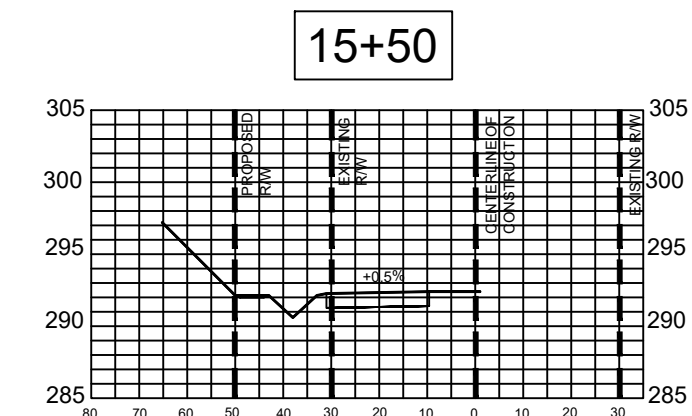
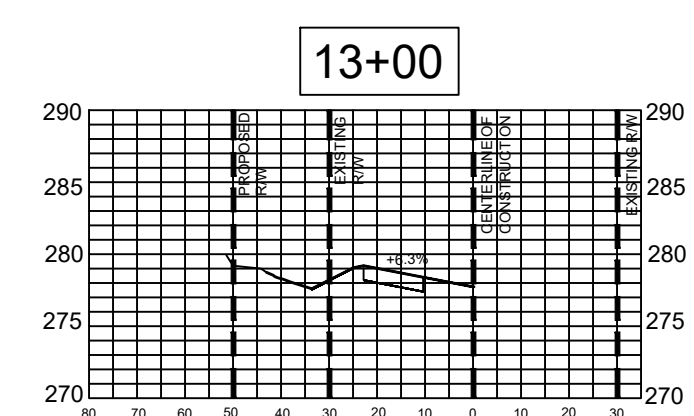
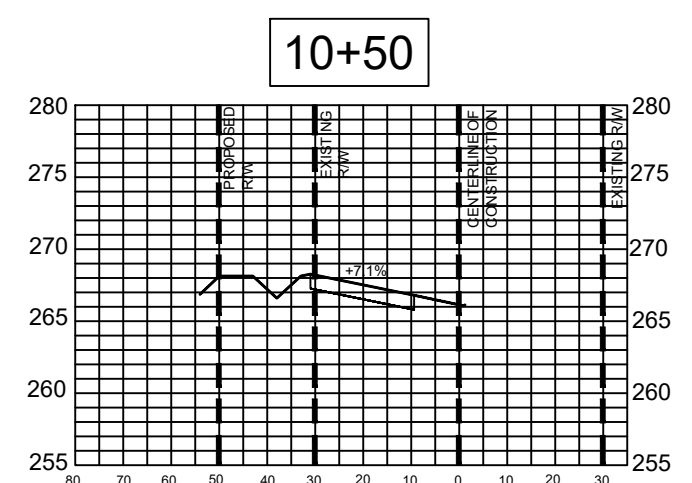
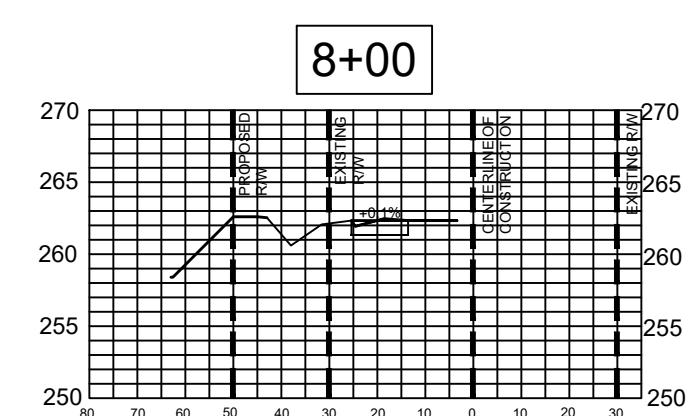
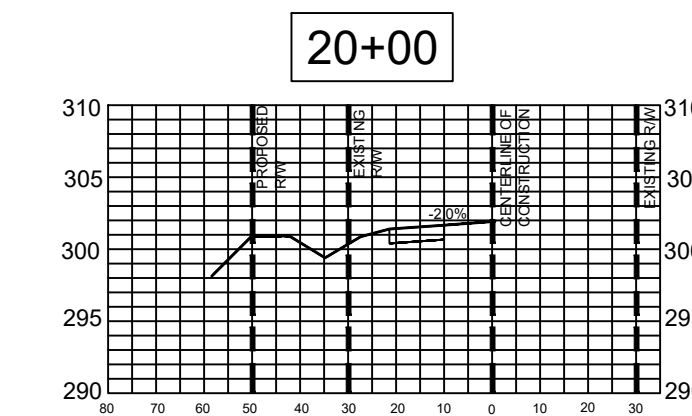
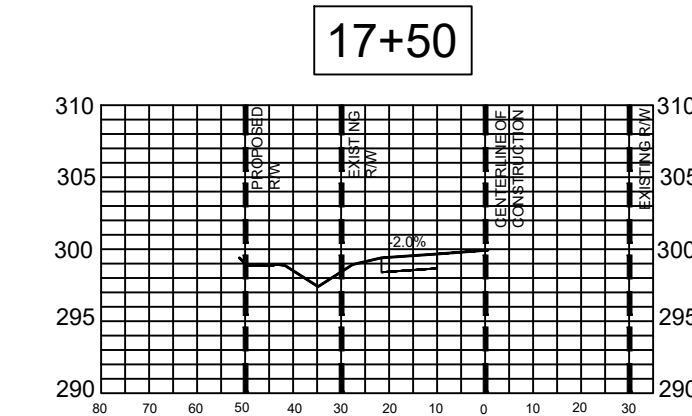
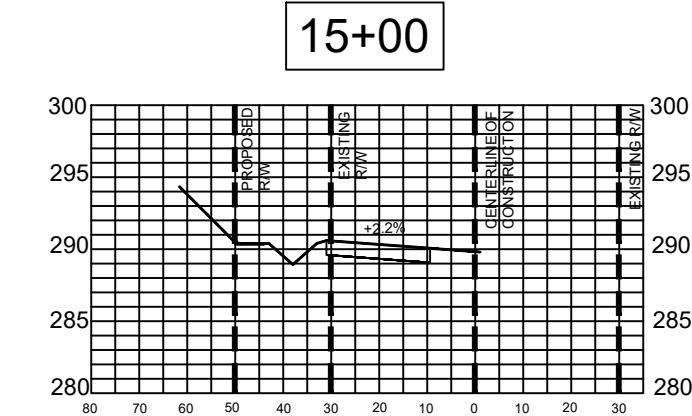
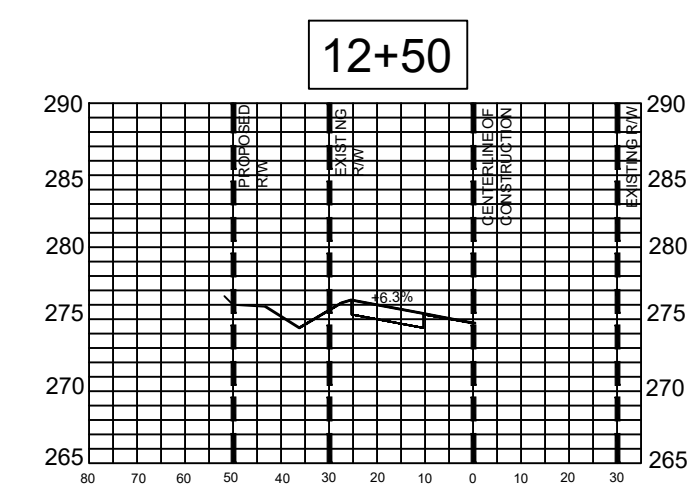
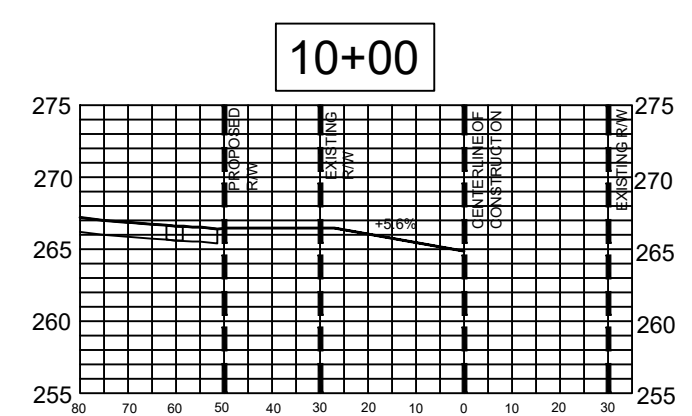
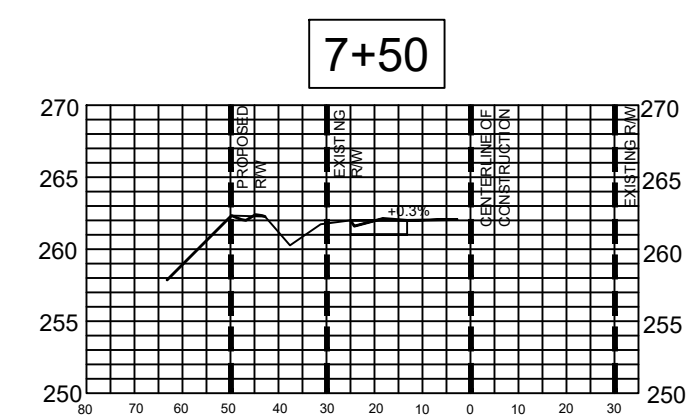
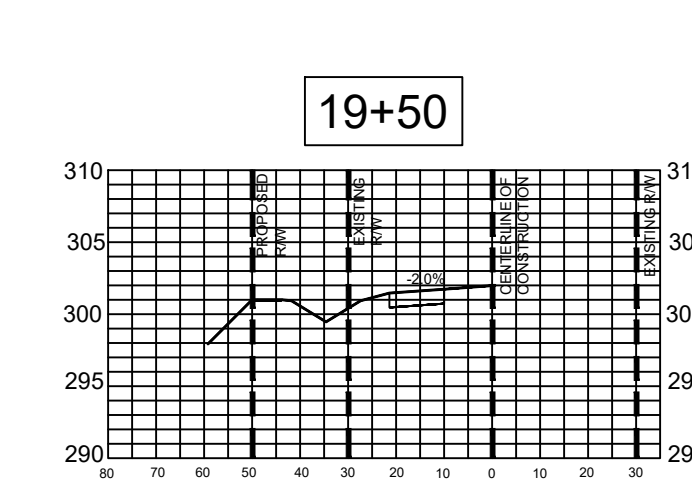
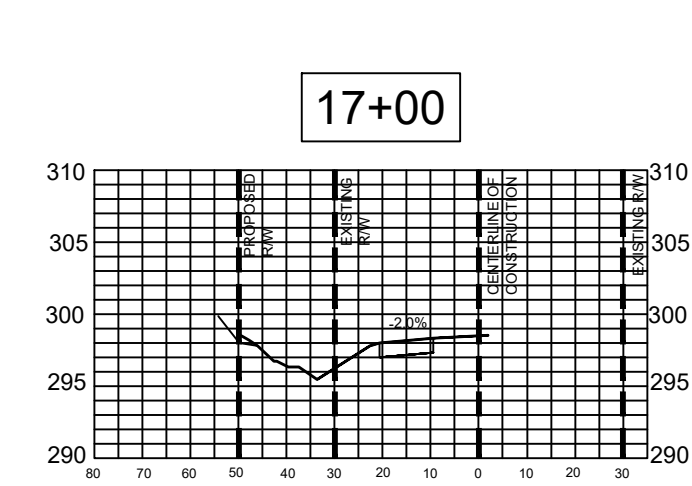
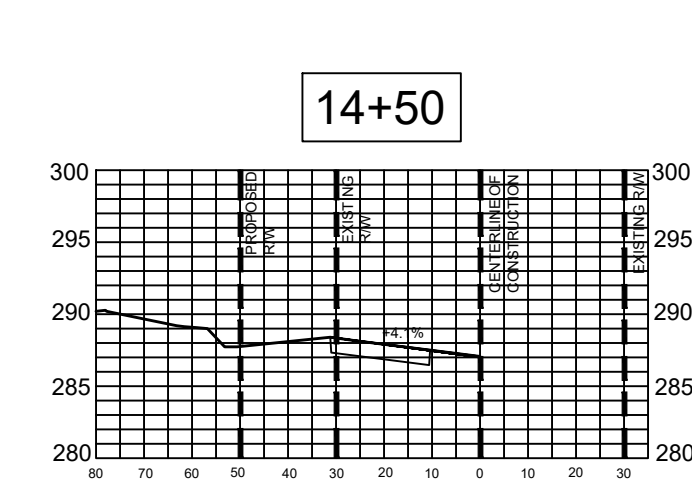
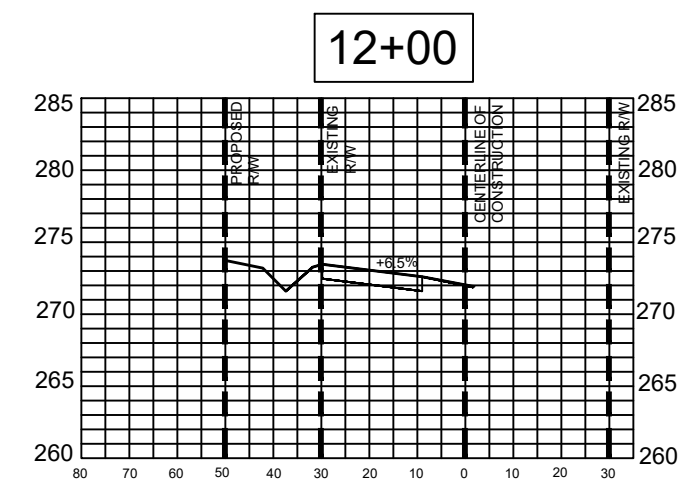
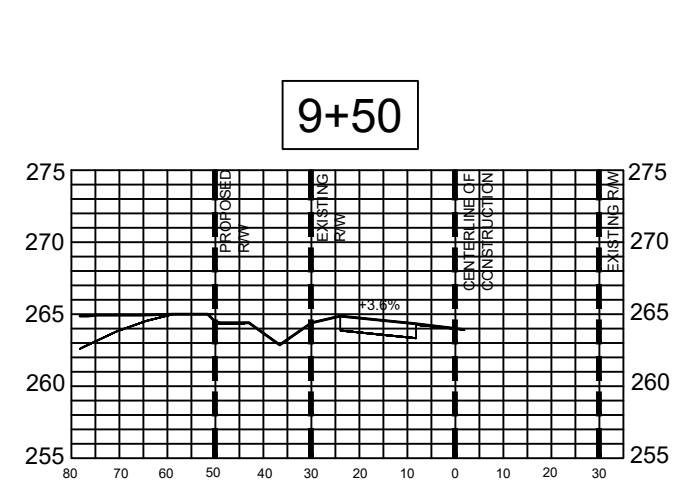
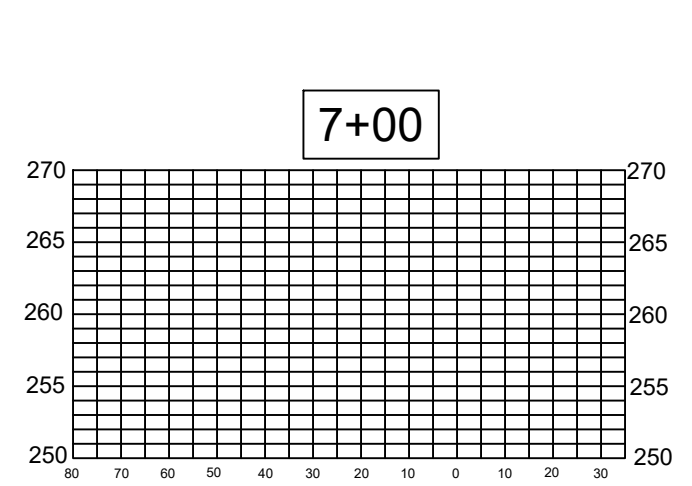
PROJECT ENGINEER/ARCHITECT
AM/ALXMMAG@SUMMITDE.NET
PROJECT MANAGER
DAS/DON.SCHER@SUMMITDE.NET
DRAWN BY
JAJIMMYASHLEY@SUMMITDE.NET
FIRST ISSUE DATE
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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
PONY RD. IMPROVEMENTS
STRIPING PLAN

PROJECT NO.
19-0103
DRAWING NAME:
19-0103_pony-rd-widening
SHEET NO.
PP-25B



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PROJECT ENGINEER/ARCHITECT
 AM/ALXKMGOT@SUMMITDE.NET
 PROJECT MANAGER
 DAS/DSON.SCHER@SUMMITDE.NET
 DRAWN BY
 JA/JIMMY.ASHLEY@SUMMITDE.NET
 FIRST ISSUE DATE
 10/01/2021

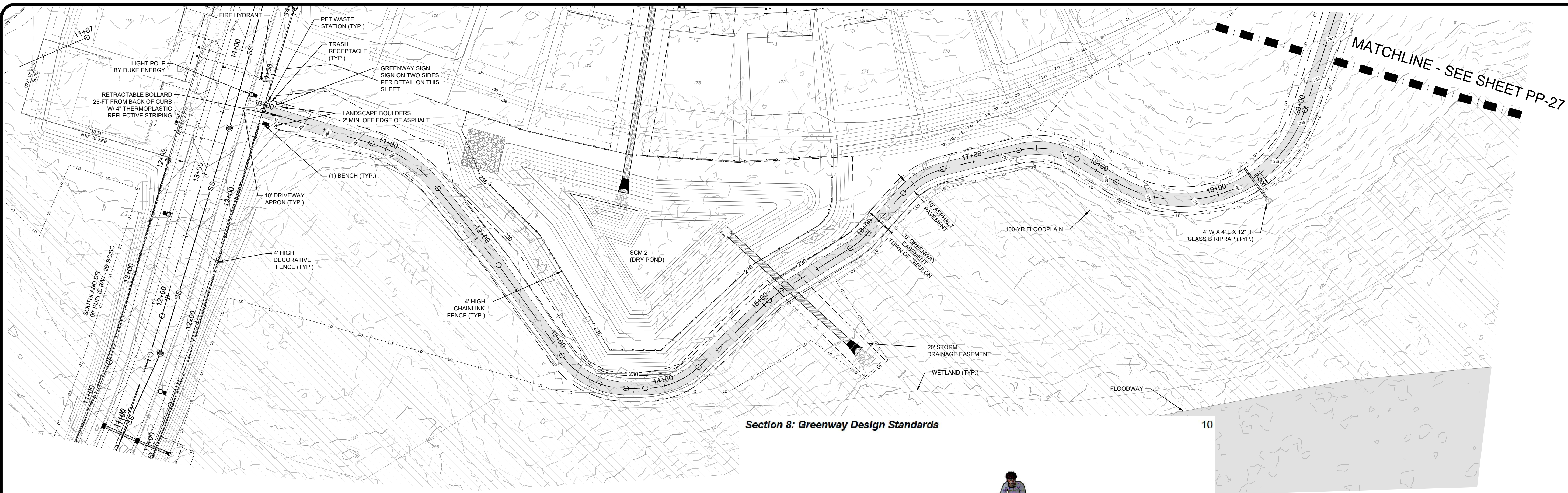


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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC
**PONY RD. IMPROVEMENTS
 CROSS-SECTIONS**

PROJECT NO.
19-0103
 DRAWING NAME:
 19-0103_pony-rd-widening
 SHEET NO.
PP-25C

N:\2019\19-0103 Pony Rd. Widening\Drawings\19-0103_Pony Rd. Widening.dwg, PLOT DATE: 09/01/2022 10:11 PM, sheet: 25 of 31



Section 8: Greenway Design Standards



Figure 8.3.2.1.B

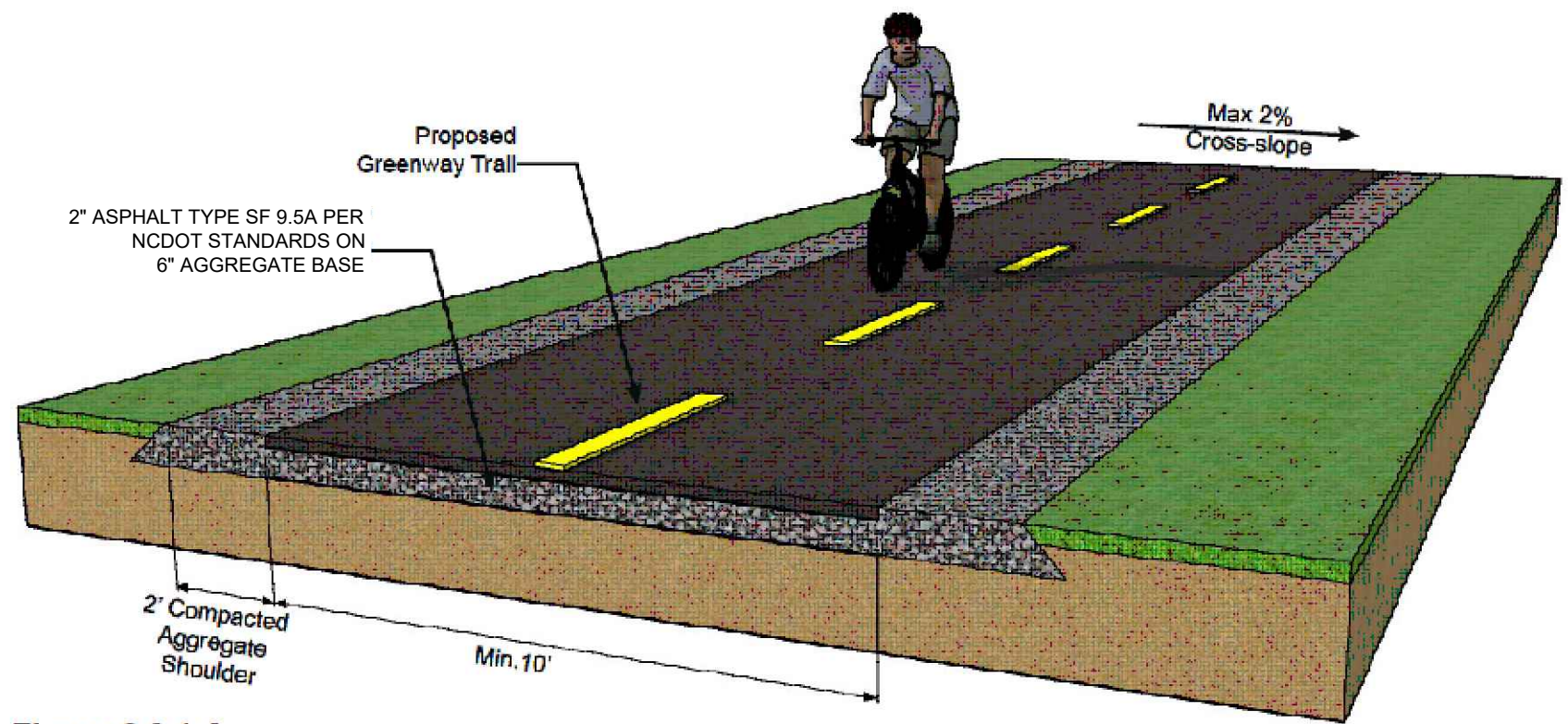
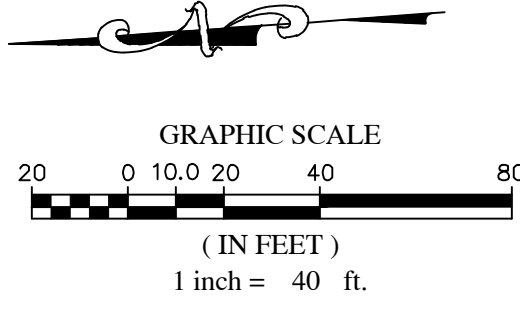
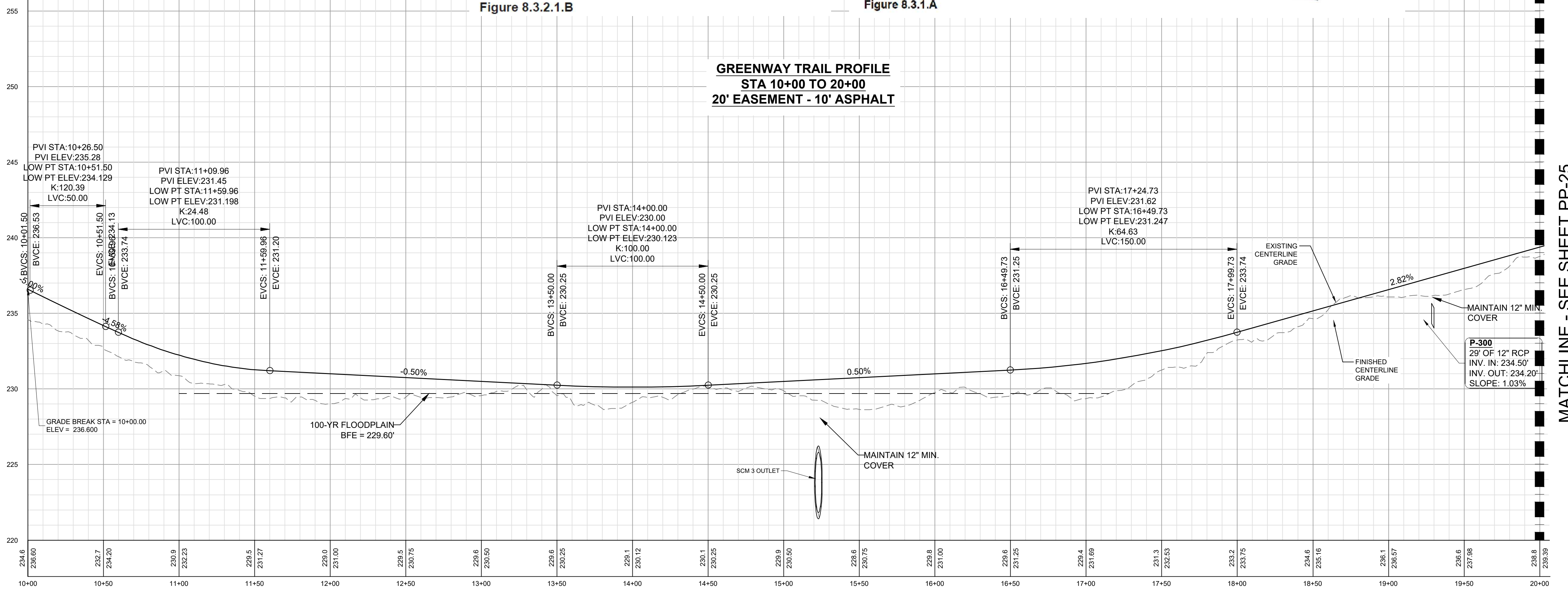


Figure 8.3.1.A

- NOTES:**
- ALL STORM DRAINAGE CULVERT PIPES SHALL BE CLASS III REINFORCED CONCRETE PIPE W/ 12" MIN. COVER
 - REFER TO DETAIL SHEETS D-8 AND D-8A FOR GREENWAY ITEMS



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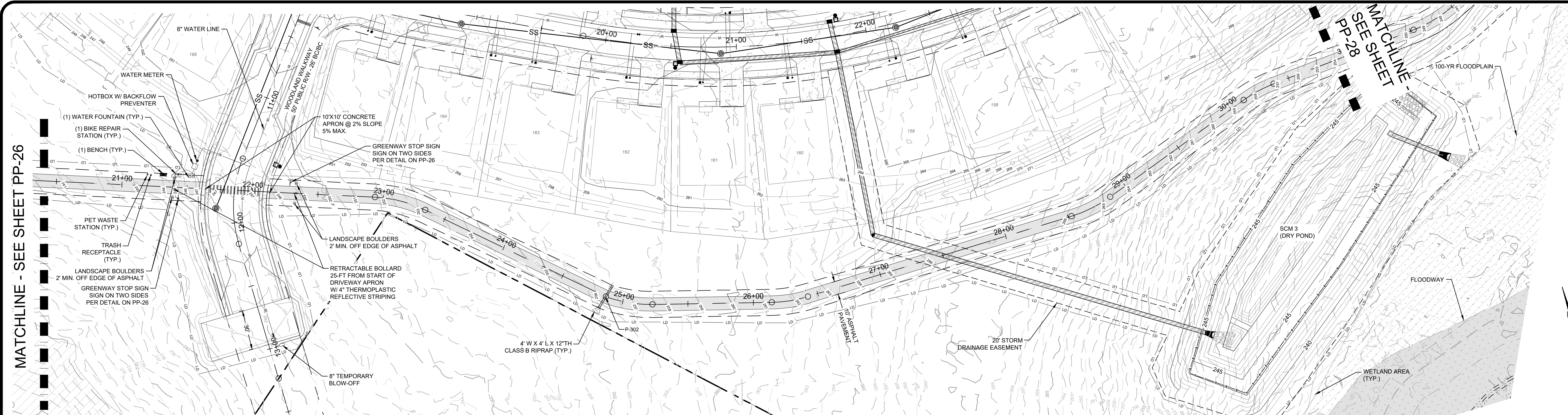
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CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

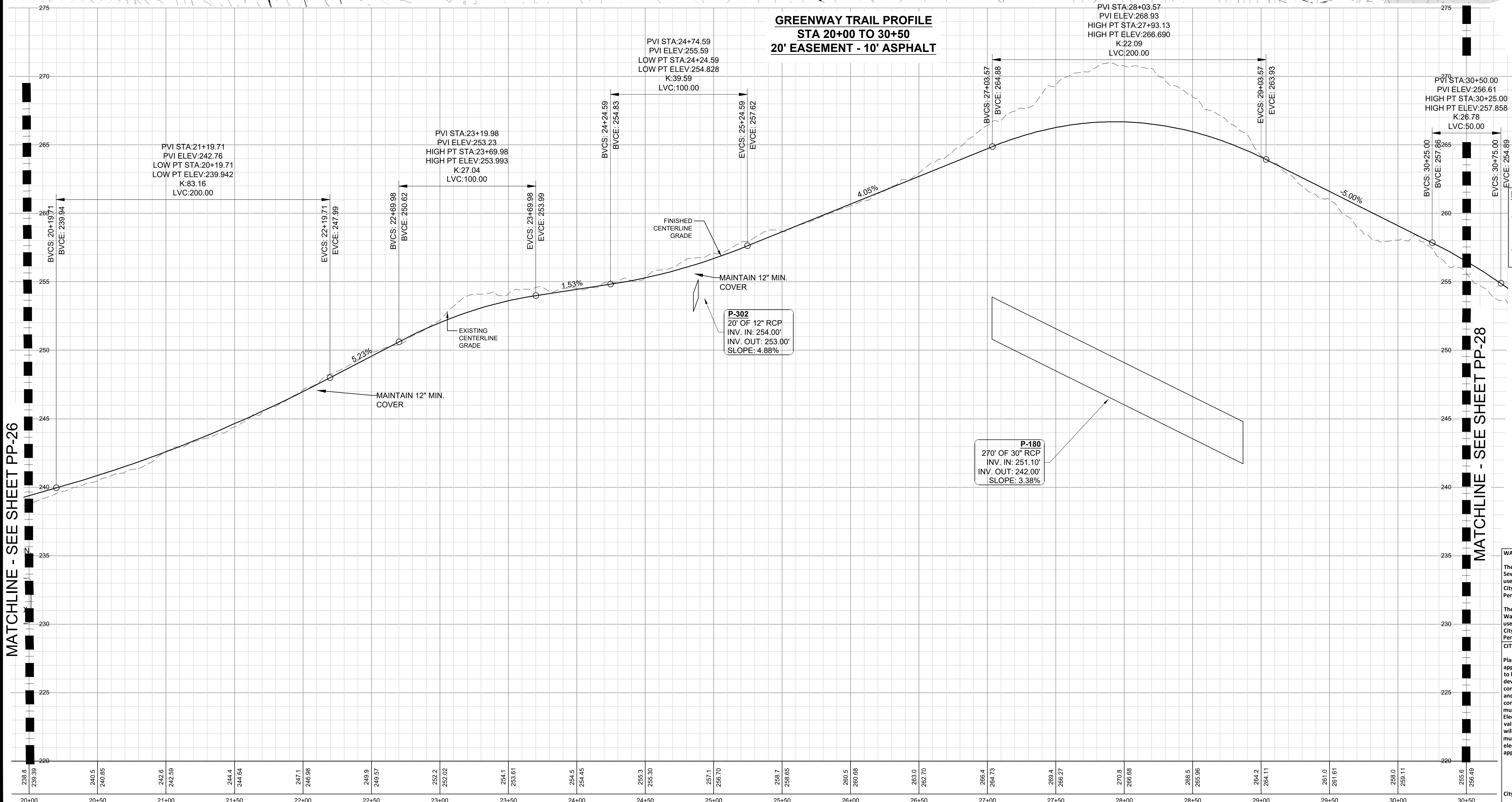
GREENWAY TRAIL
 STA 10+00 TO 20+00

PROJECT NO. 19-0103
 DRAWING NAME: 19-0103_greenway.dwg
 SHEET NO. PP-26

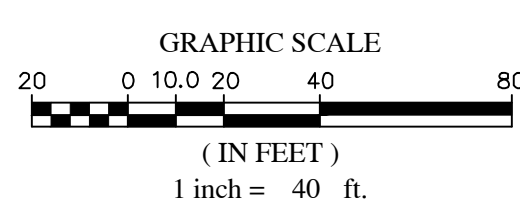
MATCHLINE - SEE SHEET PP-25



**GREENWAY TRAIL PROFILE
STA 20+00 TO 30+50
20' EASEMENT - 10' ASPHALT**



- NOTES:**
- ALL STORM DRAINAGE CULVERT PIPES SHALL BE CLASS III REINFORCED CONCRETE PIPE W/ 12" MIN. COVER
 - REFER TO DETAIL SHEETS D-8 AND D-8A FOR GREENWAY ITEMS



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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

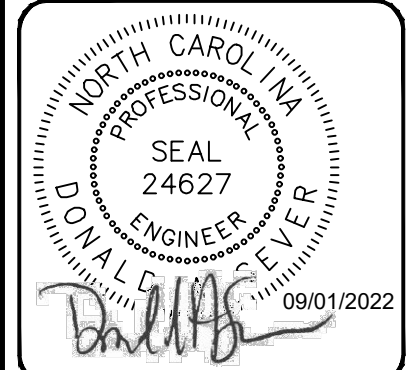
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| 6 | 05/07/2022 | REVISED PER MAKE COUNTY REVIEW COMMENTS 05/24/2022 |
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| 4 | 04/09/2022 | REVISED PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | REVISED PER MAKE COUNTY REVIEW COMMENTS 03/24/2022 |
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**PROJECT ENGINEER/ARCHITECT
AM/ALEXMAGDO@SUMMITDE.NET**
PROJECT MANAGER
DASDAN.SECER@SUMMITDE.NET



**SUMMIT
DESIGN AND ENGINEERING SERVICES**
320 Executive Court
Hillsborough, NC 27278
Voice: (919) 732-8883 Fax: (919) 732-2476
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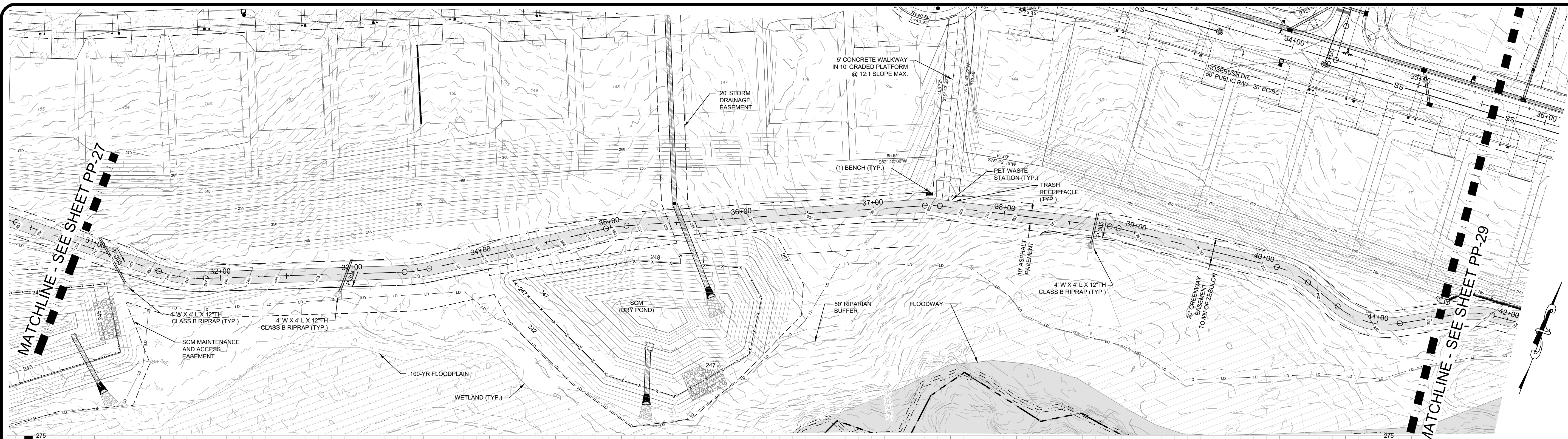
**CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC**

**GREENWAY TRAIL
STA 20+00 TO 30+50**

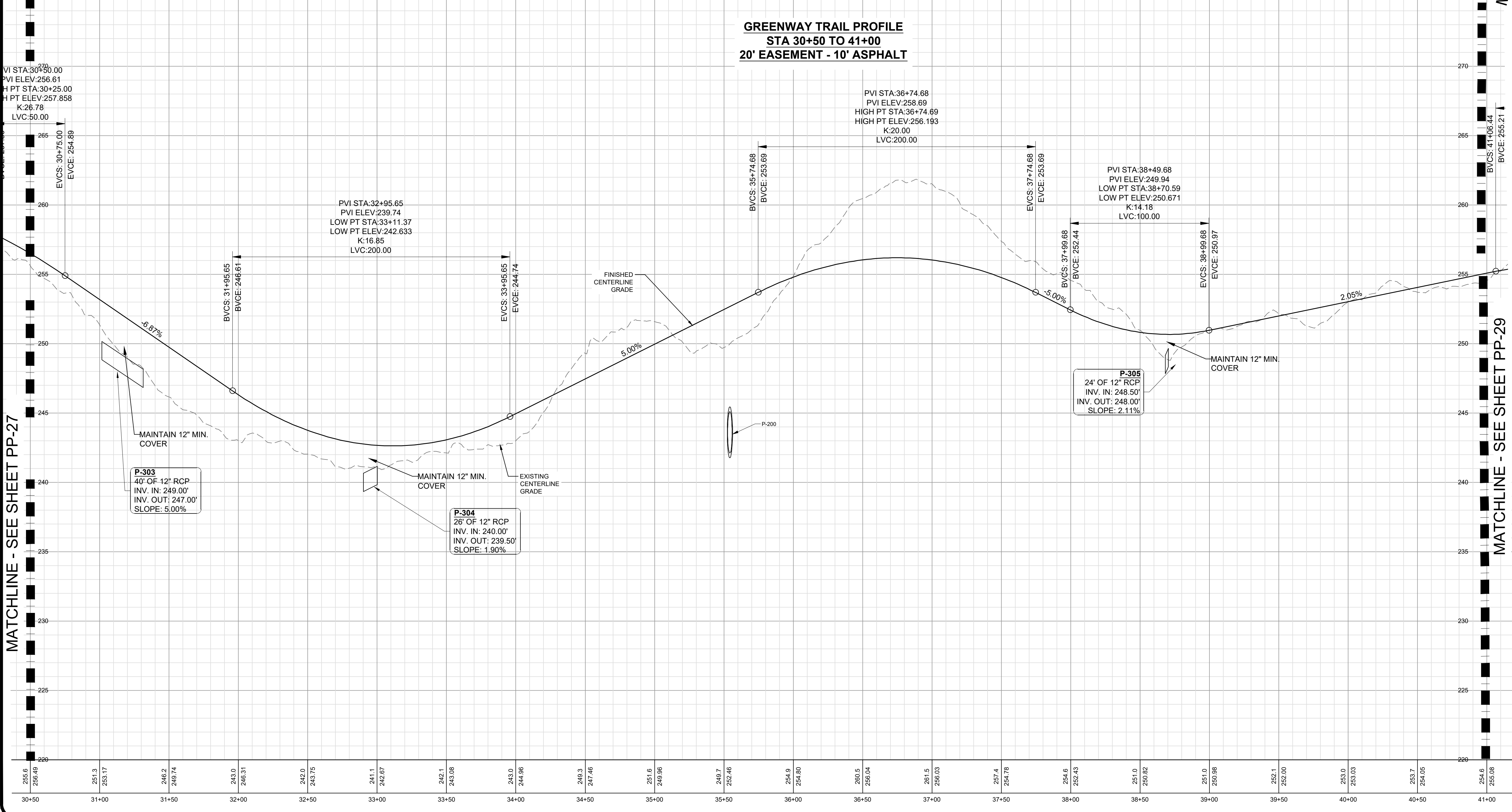
PROJECT NO.
19-0103

DRAWING NAME:
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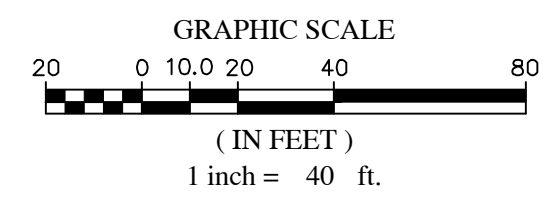
SHEET NO.
PP-27



**GREENWAY TRAIL PROFILE
STA 30+50 TO 41+00
20' EASEMENT - 10' ASPHALT**



- NOTES:**
- ALL STORM DRAINAGE CULVERT PIPES SHALL BE CLASS III REINFORCED CONCRETE PIPE W/ 12" MIN. COVER
 - REFER TO DETAIL SHEETS D-8 AND D-8A FOR GREENWAY ITEMS



WATER AND SEWER PERMITS

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-3863.

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 # S-4937.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations. Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

| NO. | REVISIONS | DATE | BY |
|-----|--|------------|-----|
| 7 | FINAL SET | 09/01/2022 | DAS |
| 6 | REVISED PER MAKE COUNTY REVIEW COMMENTS 06/24/2022 | 06/24/2022 | DAS |
| 5 | REVISED PER MAKE COUNTY REVIEW COMMENTS 04/27/2022 | 04/27/2022 | DAS |
| 4 | REVISED PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 | 03/24/2022 | DAS |
| 3 | REVISED PER MAKE COUNTY REVIEW COMMENTS 03/24/2022 | 03/24/2022 | DAS |
| 2 | REVISED PER MAKE COUNTY REVIEW COMMENTS 02/17/2022 | 02/17/2022 | DAS |
| 1 | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/22/2021 | 11/22/2021 | DAS |

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PROJECT ENGINEER/ARCHITECT: AM (ALEX.MAGDO@SUMMITDE.NET)
PROJECT MANAGER: DASON.SECHE@SUMMITDE.NET
DRAWN BY: JAJUNWY.ASHLEY@SUMMITDE.NET
FIRST ISSUE DATE: 10/01/2021



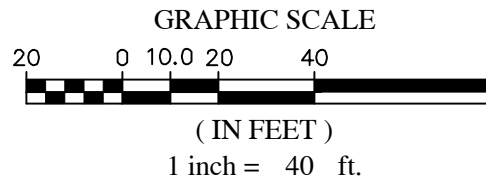
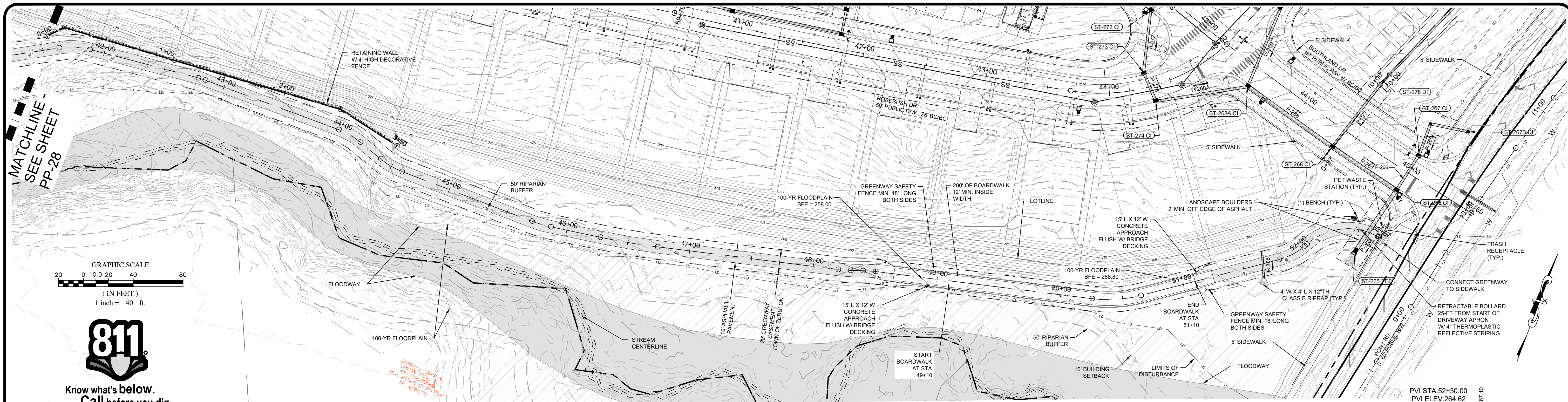
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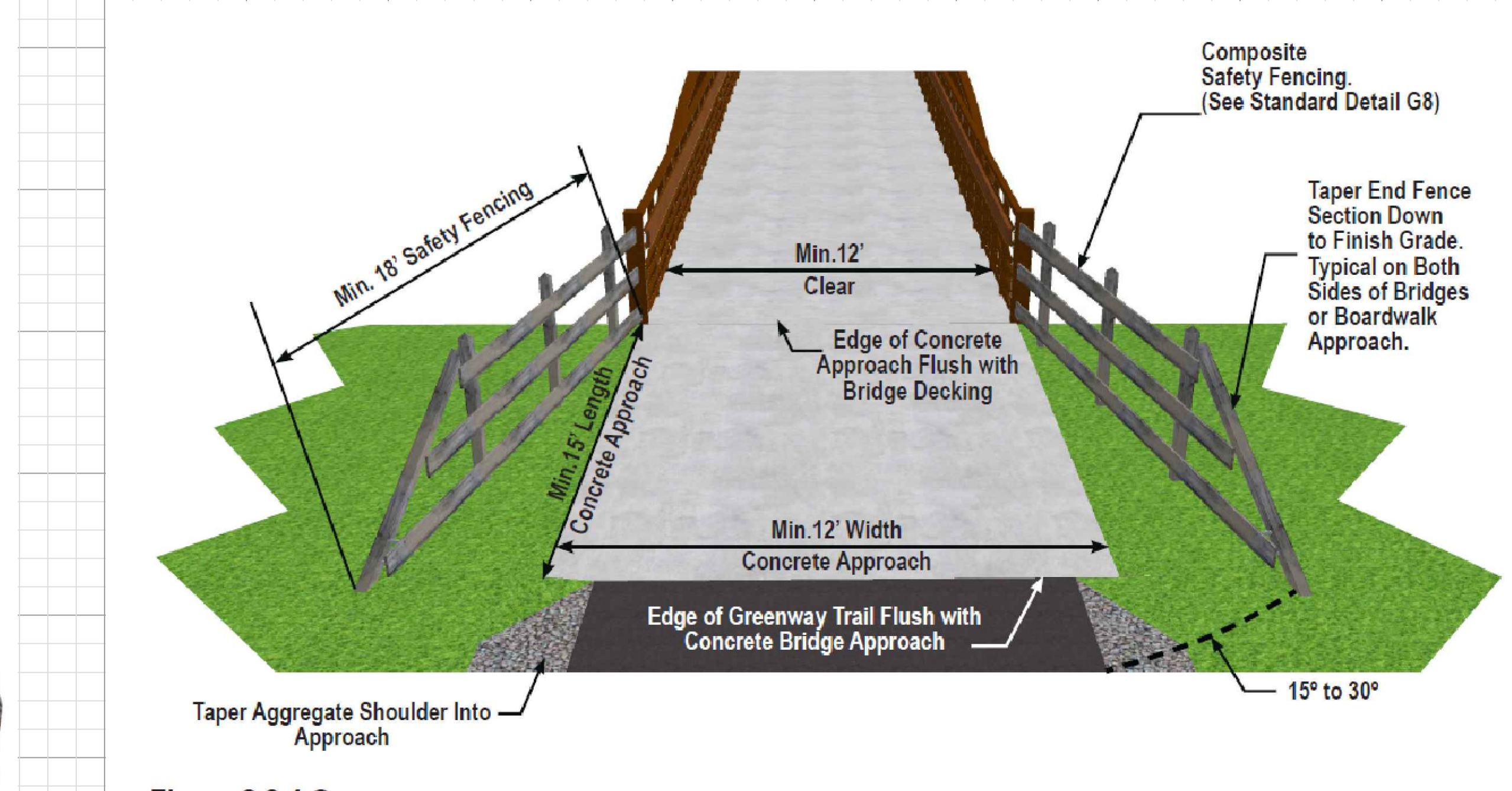
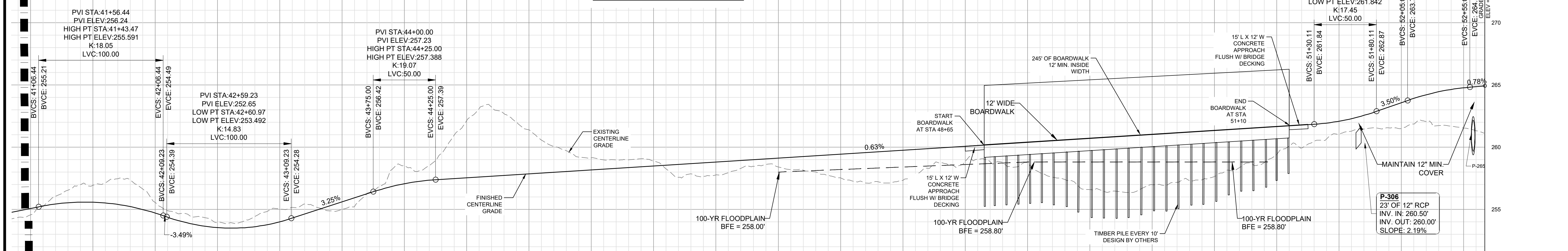
**CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS**
915 PONY ROAD
ZEBULON, NC

**GREENWAY TRAIL
STA 30+50 TO 41+00**

PROJECT NO: 19-0103
DRAWING NAME: 19-0103_greenway.dwg
SHEET NO: PP-28



**GREENWAY TRAIL PROFILE
STA 41+00 TO 52+14
20' EASEMENT - 10' ASPHALT**



- NOTES:**
- ALL STORM DRAINAGE CULVERT PIPES SHALL BE CLASS III REINFORCED CONCRETE PIPE W/ 12" MIN. COVER
 - REFER TO DETAIL SHEETS D-8 AND D-8A FOR GREENWAY ITEMS
 - GREENWAY BOARDWALK REQUIRES STRUCTURAL ENGINEERING REPORT AND BUILDING PERMIT TO TOWN OF ZEBULON AND WAKE COUNTY BUILDING PERMIT FOR CONSTRUCTION. ENGINEERING DRAWINGS WILL BE A SEPARATE SUBMITTAL.

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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

MATCHLINE - SEE SHEET PP-28

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
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| 41+00 | 41+50 | 42+00 | 42+50 | 43+00 | 43+50 | 44+00 | 44+50 | 45+00 | 45+50 | 46+00 | 46+50 | 47+00 | 47+50 | 48+00 | 48+50 | 49+00 | 49+50 | 50+00 | 50+50 | 51+00 | 51+50 | 52+00 | 52+50 | 52+67.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 7 | FINAL SET | 05/07/2022 | DAS |
| 6 | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 | 05/07/2022 | DAS |
| 5 | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 | 05/07/2022 | DAS |
| 4 | REVISED PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 | 04/09/2022 | DAS |
| 3 | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 | 04/09/2022 | DAS |
| 2 | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 | 03/25/2022 | DAS |
| 1 | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/22/2021 | 11/07/2021 | DAS |

REVISIONS

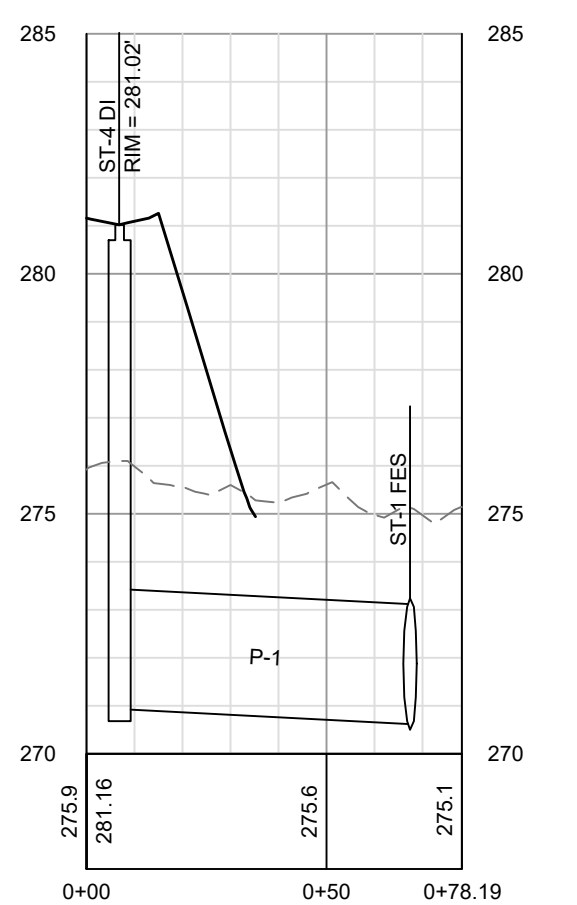
| NO. | DATE | BY |
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CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

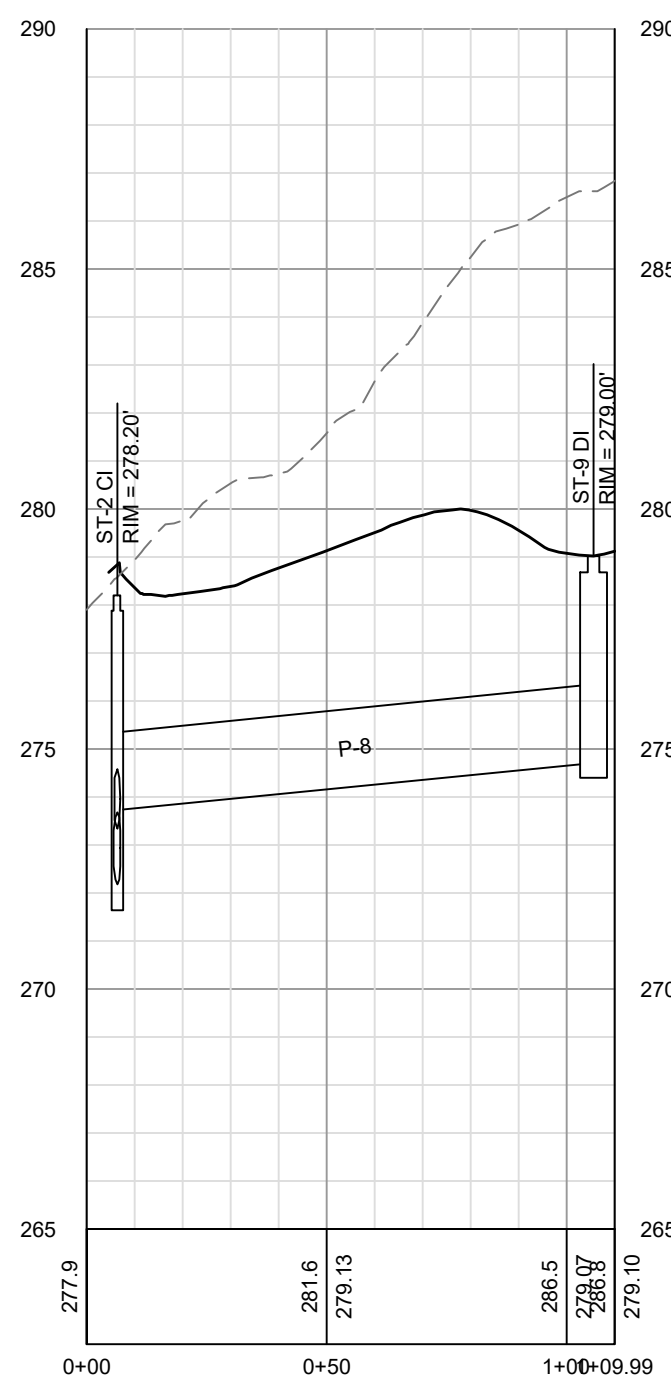
GREENWAY TRAIL
STA 41+00 TO 52+14

PROJECT NO. 19-0103
DRAWING NAME: 19-0103_greenway.dwg
SHEET NO. PP-29

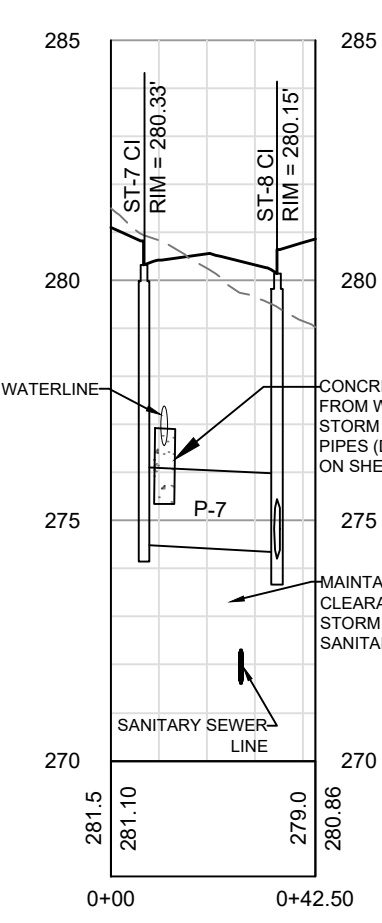
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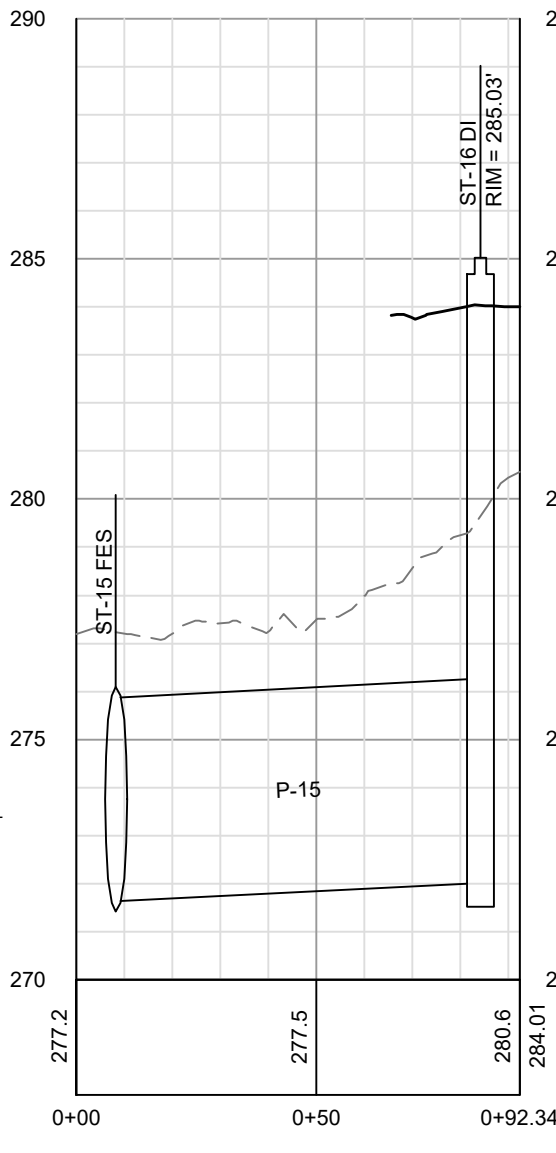
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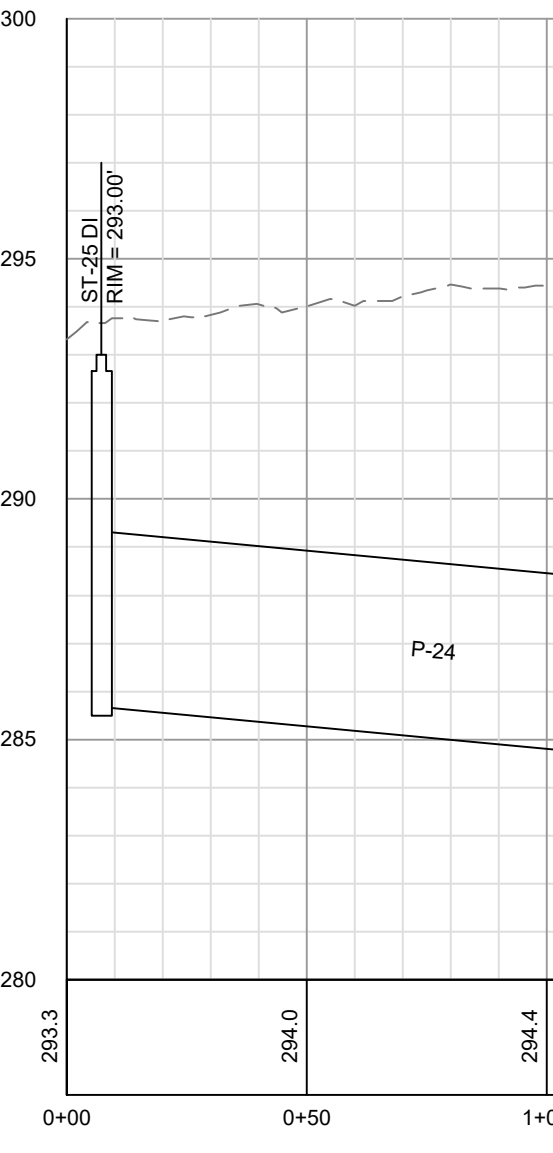
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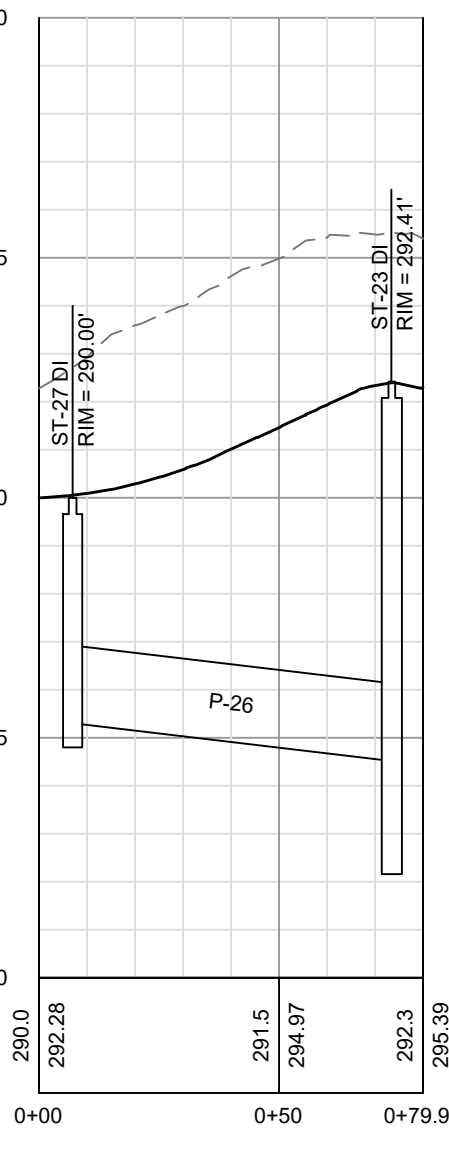
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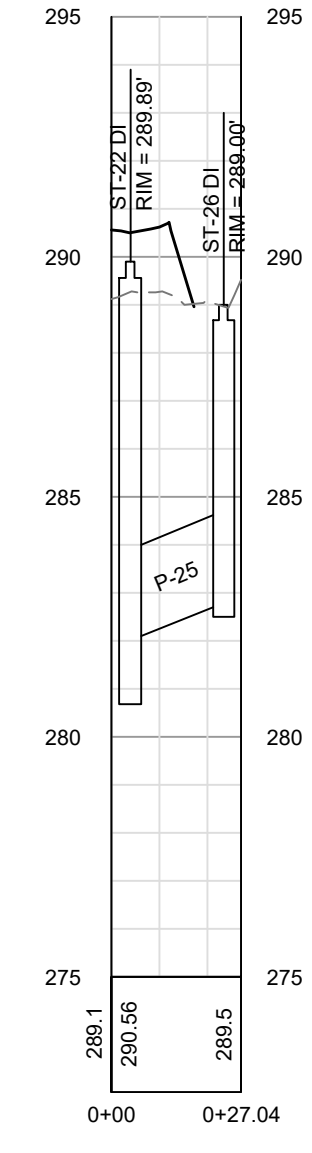
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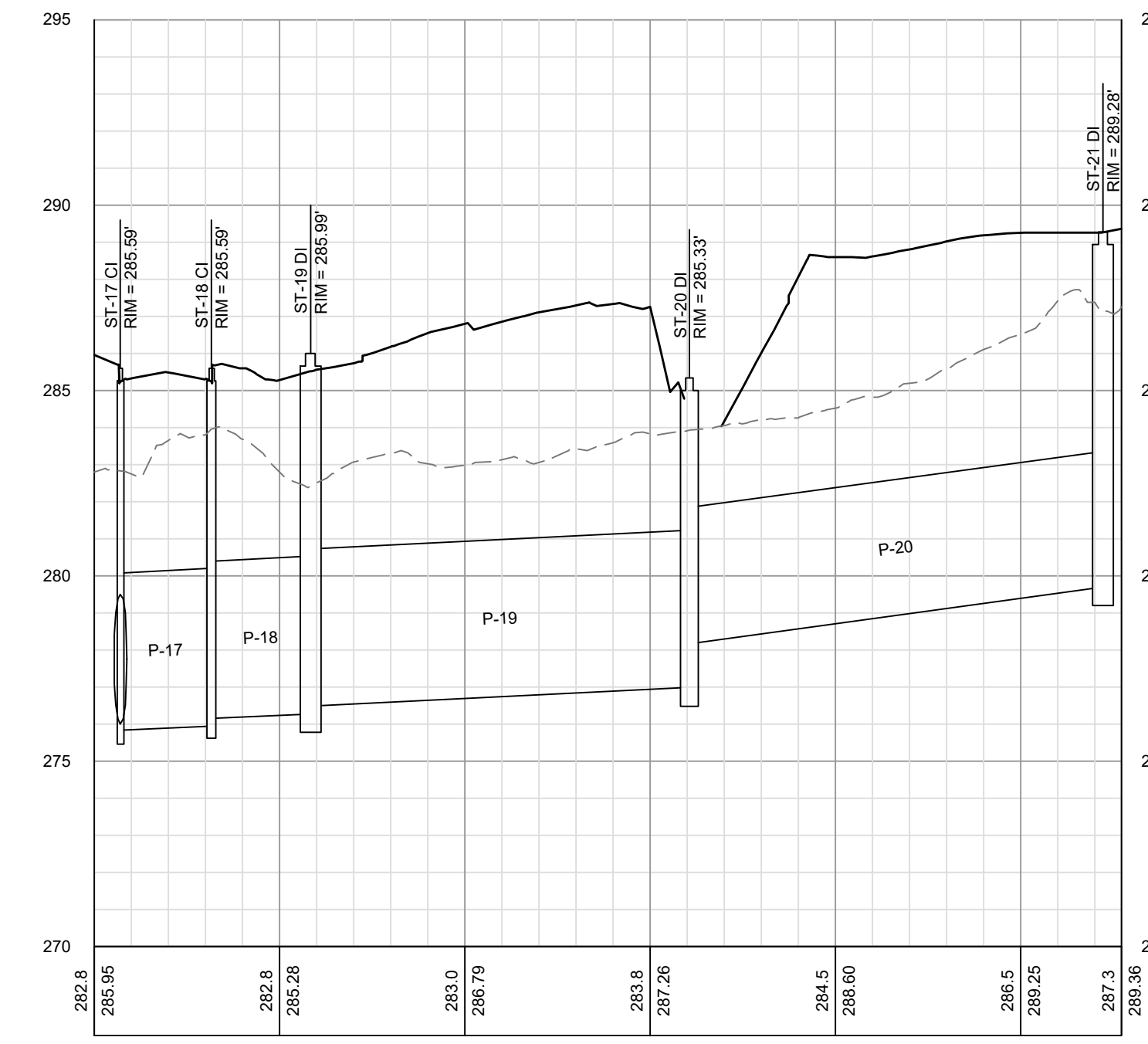
ST-27 & ST-23 PROFILE



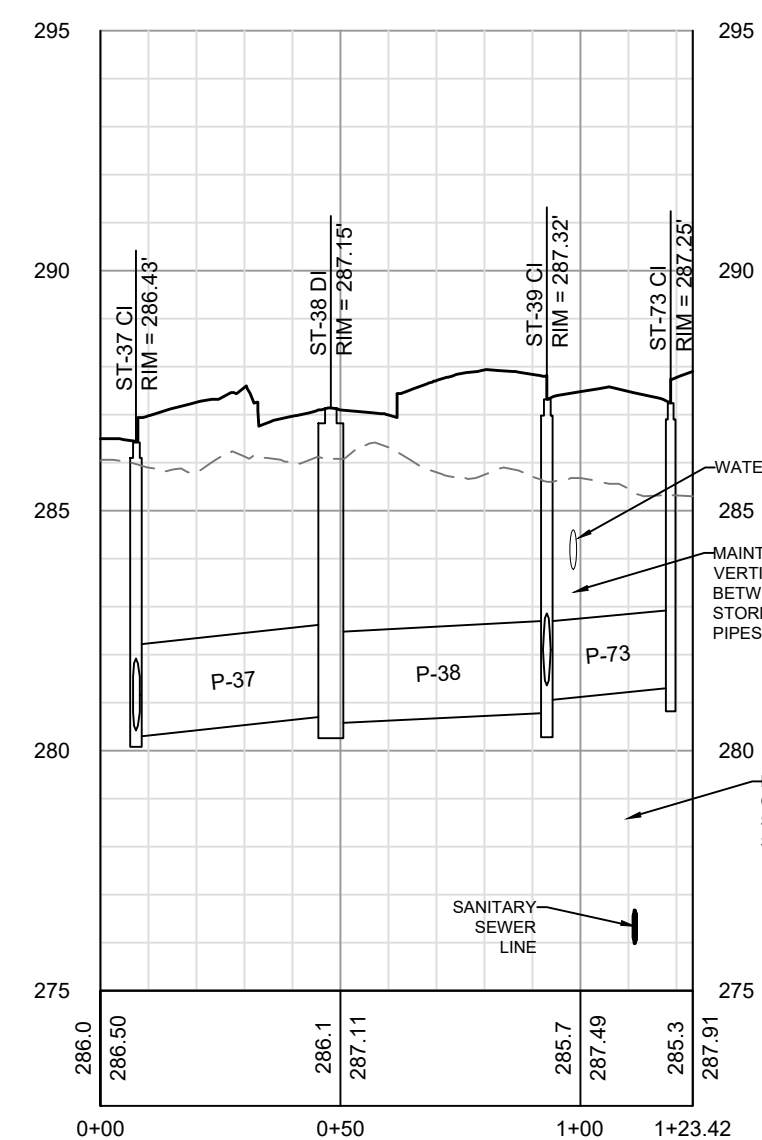
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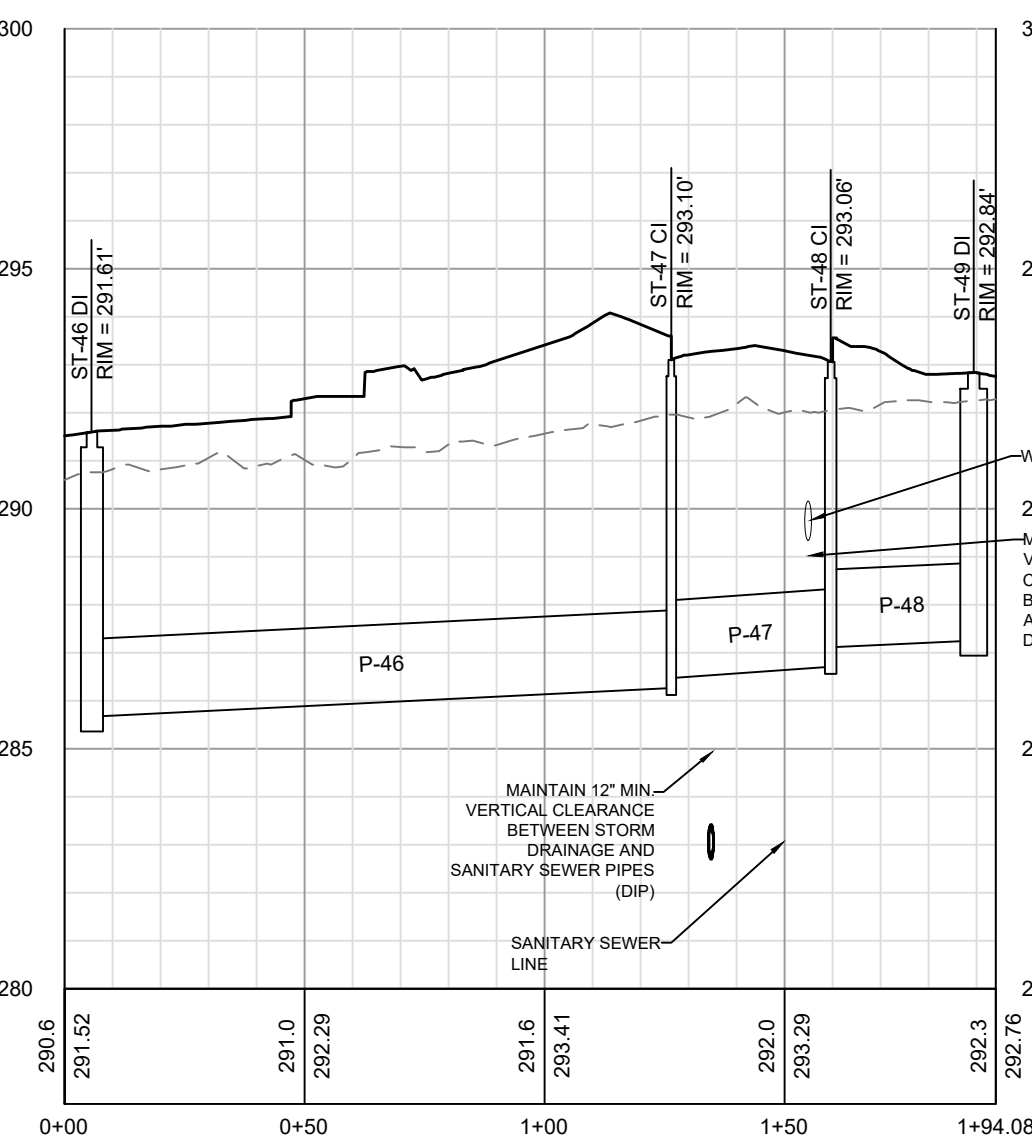
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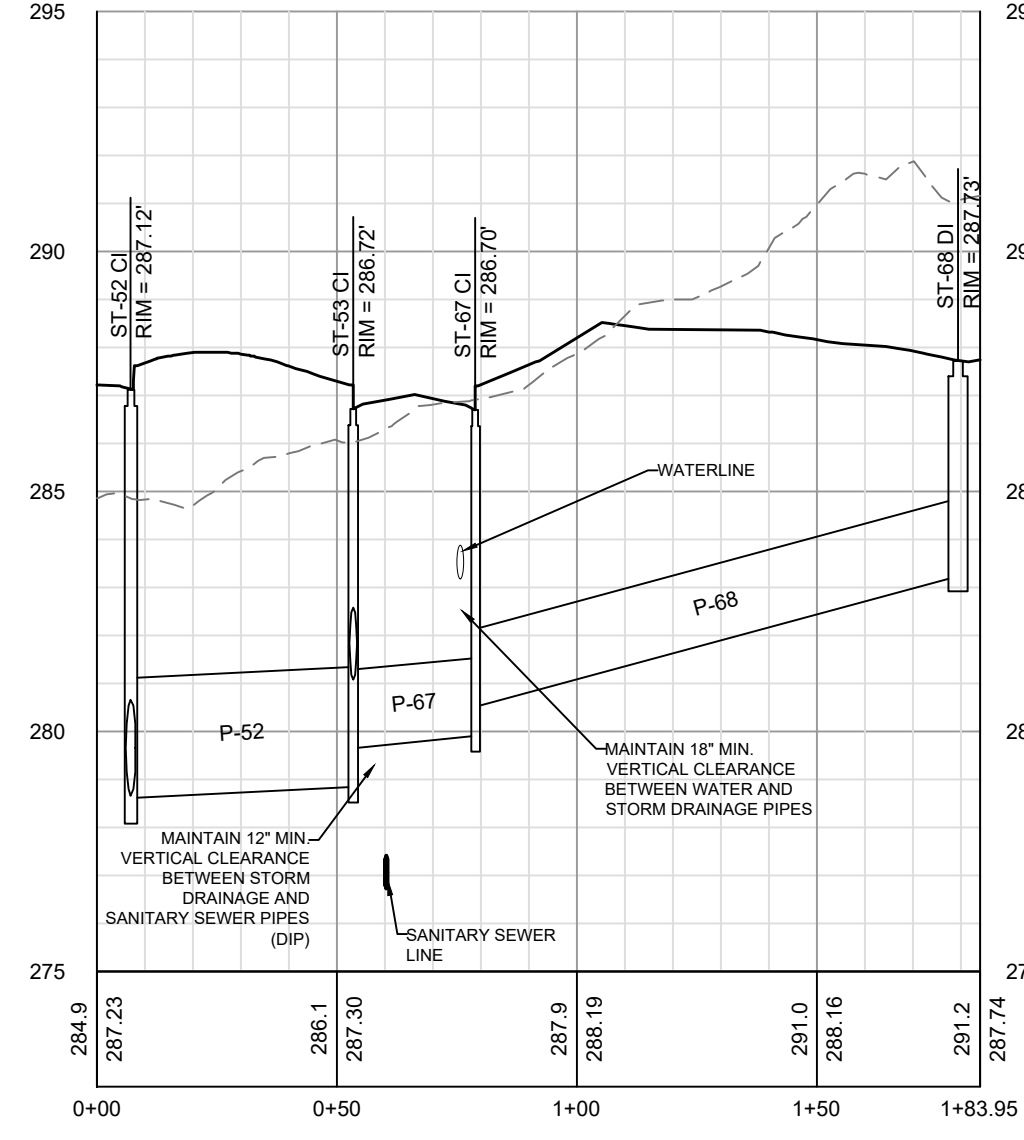
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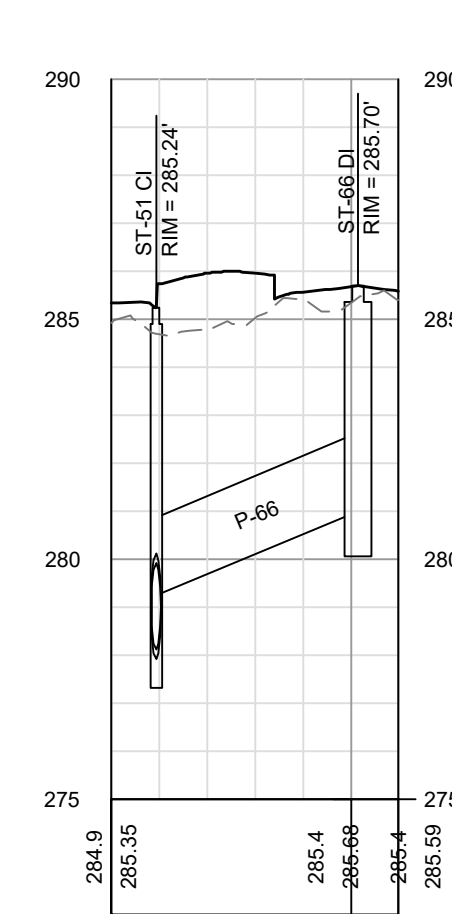
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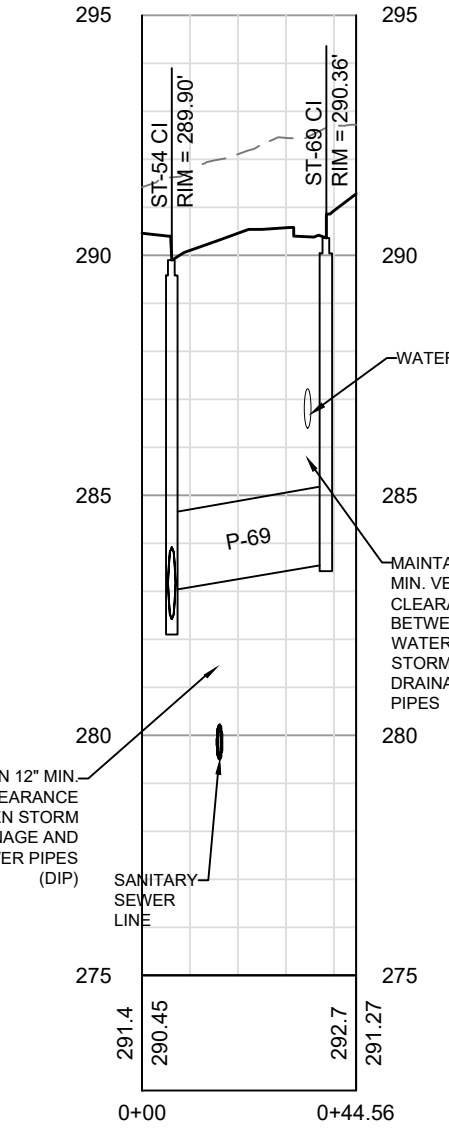
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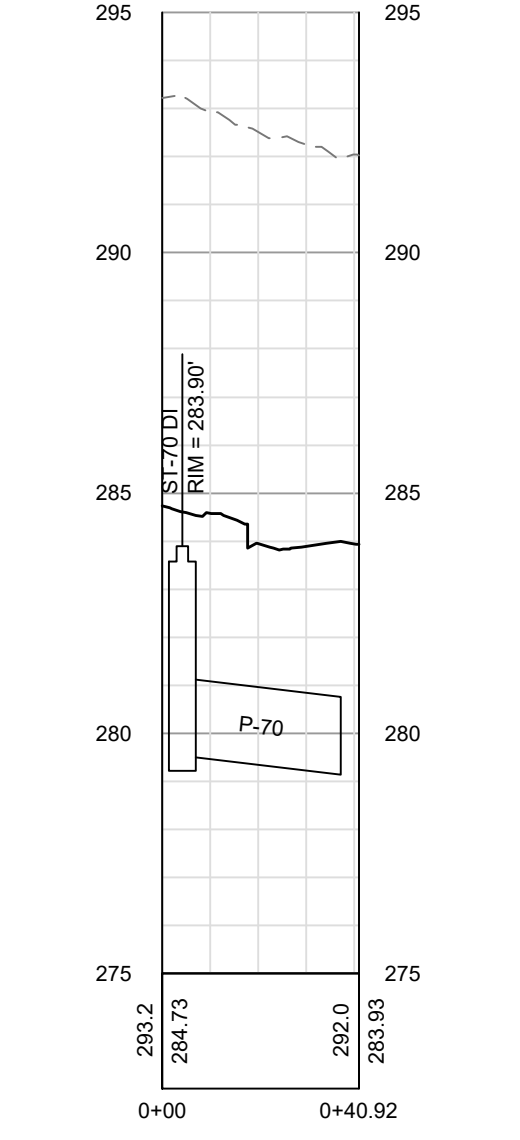
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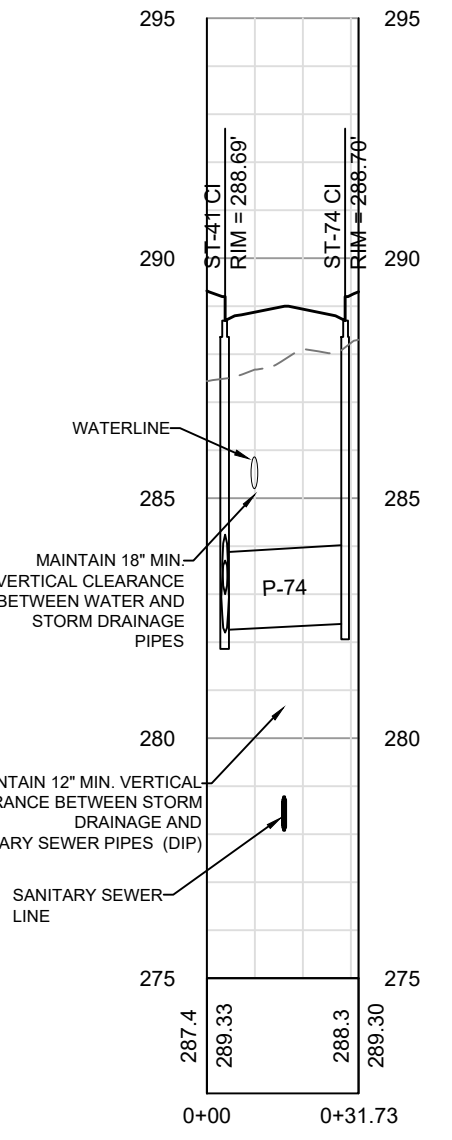
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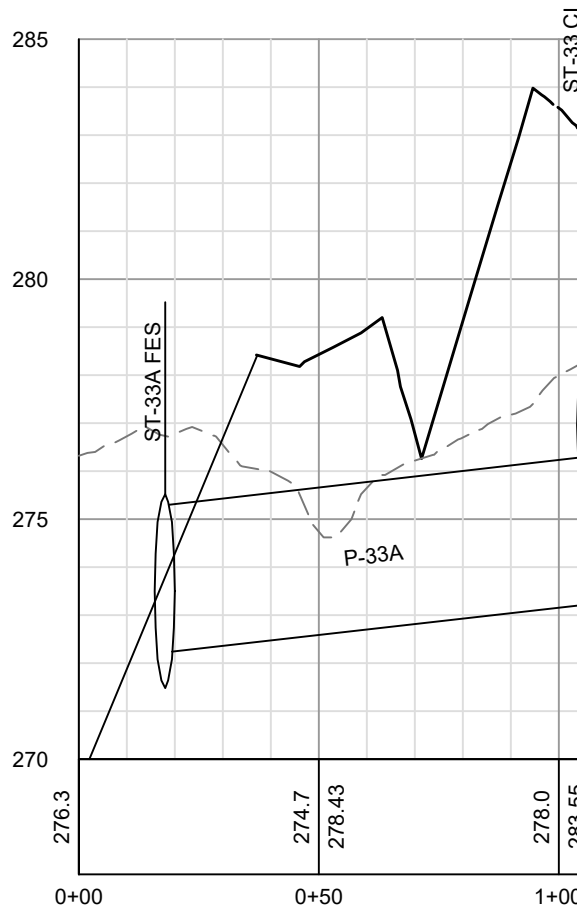
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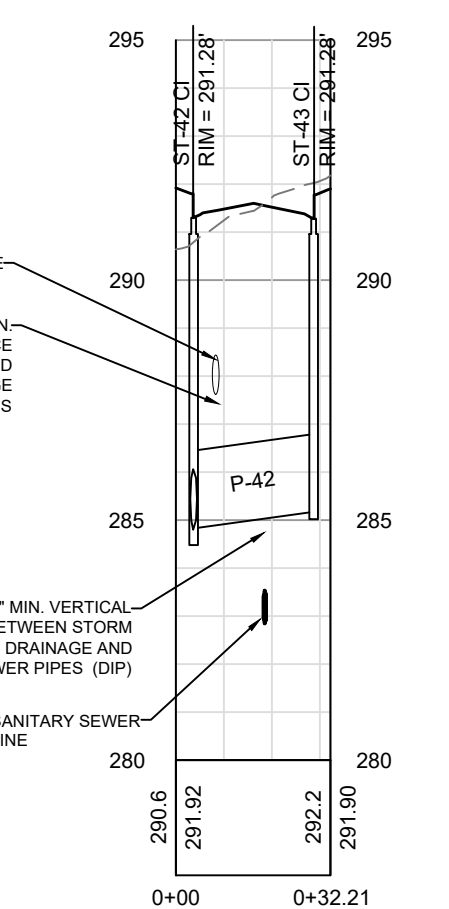
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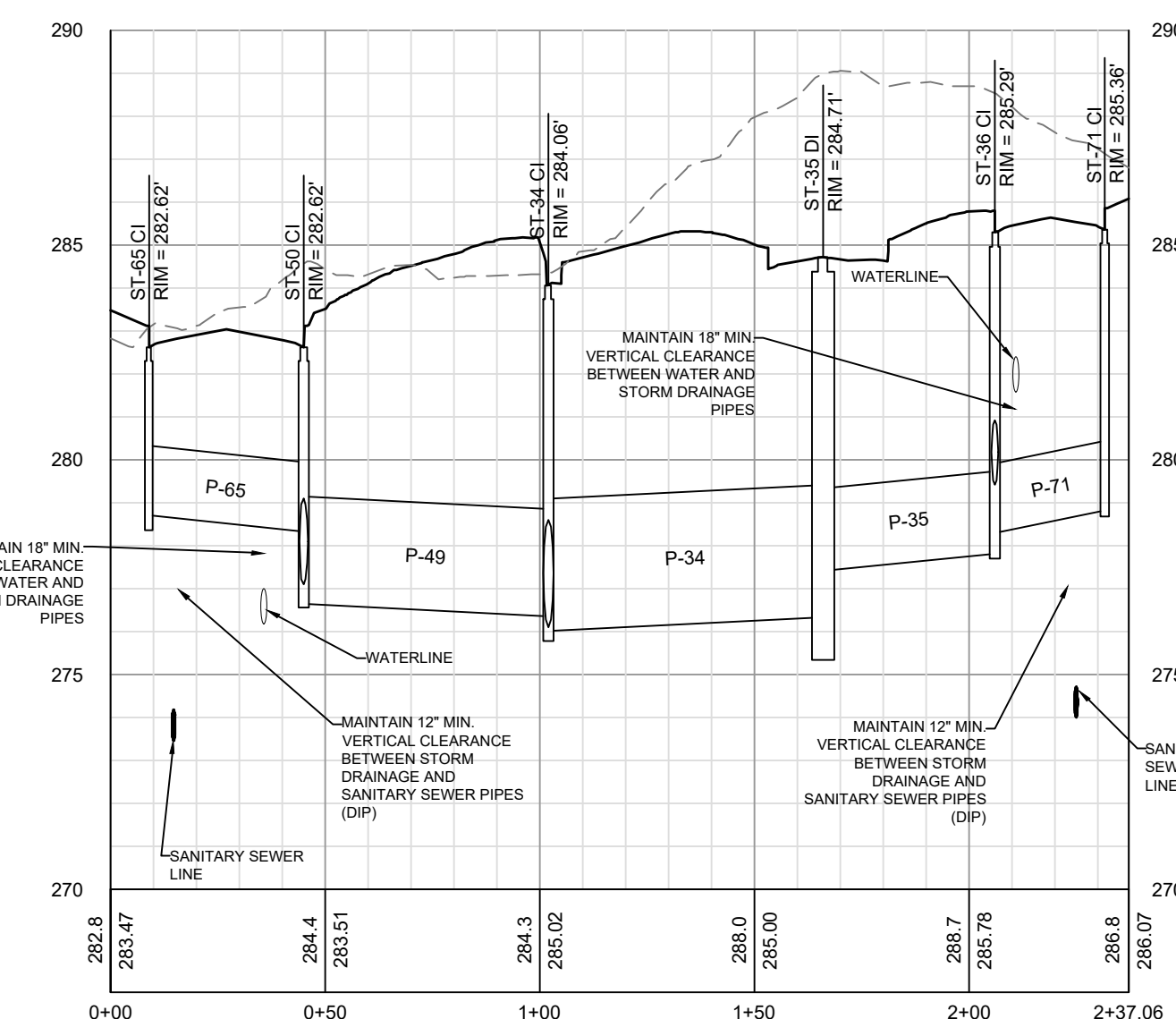
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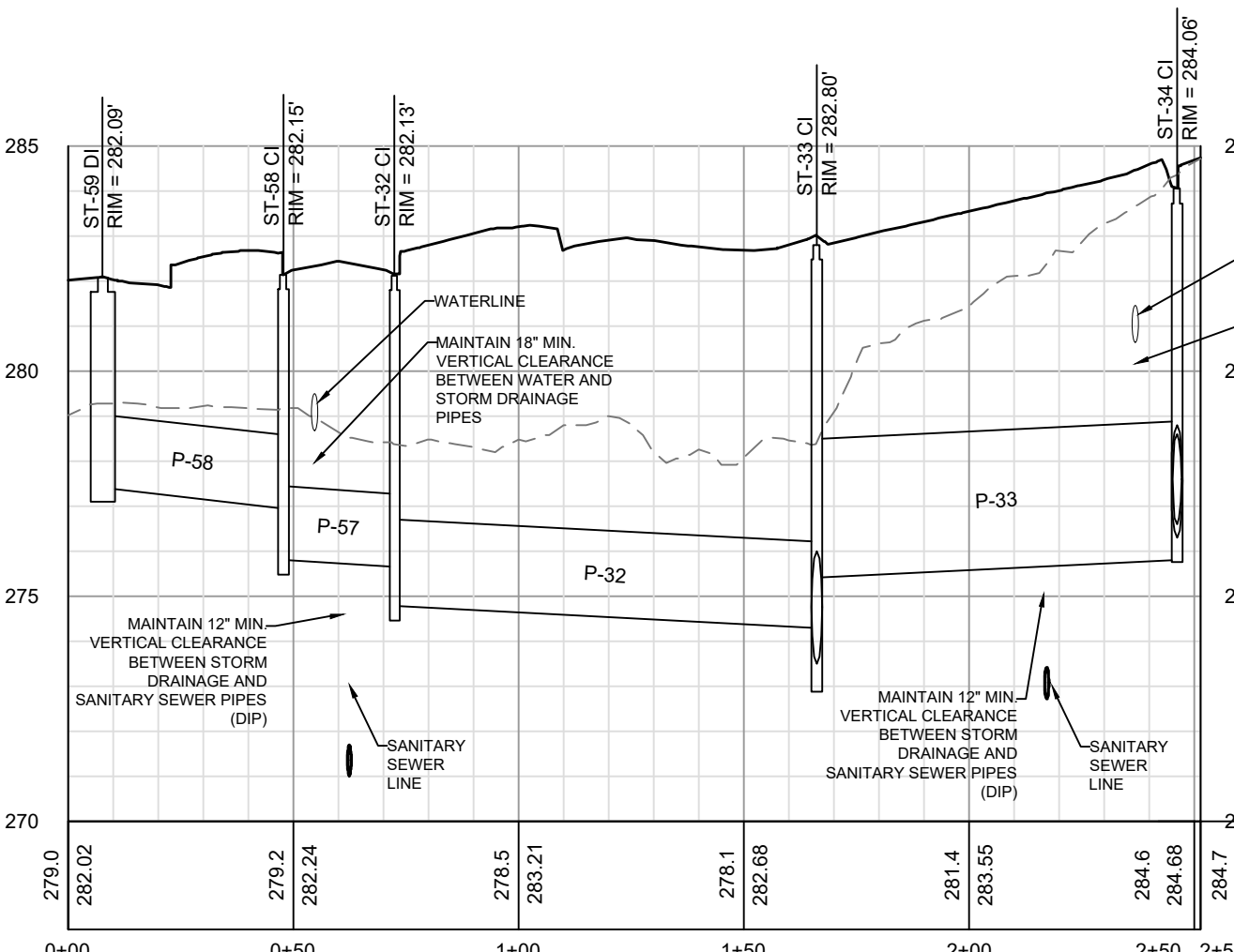
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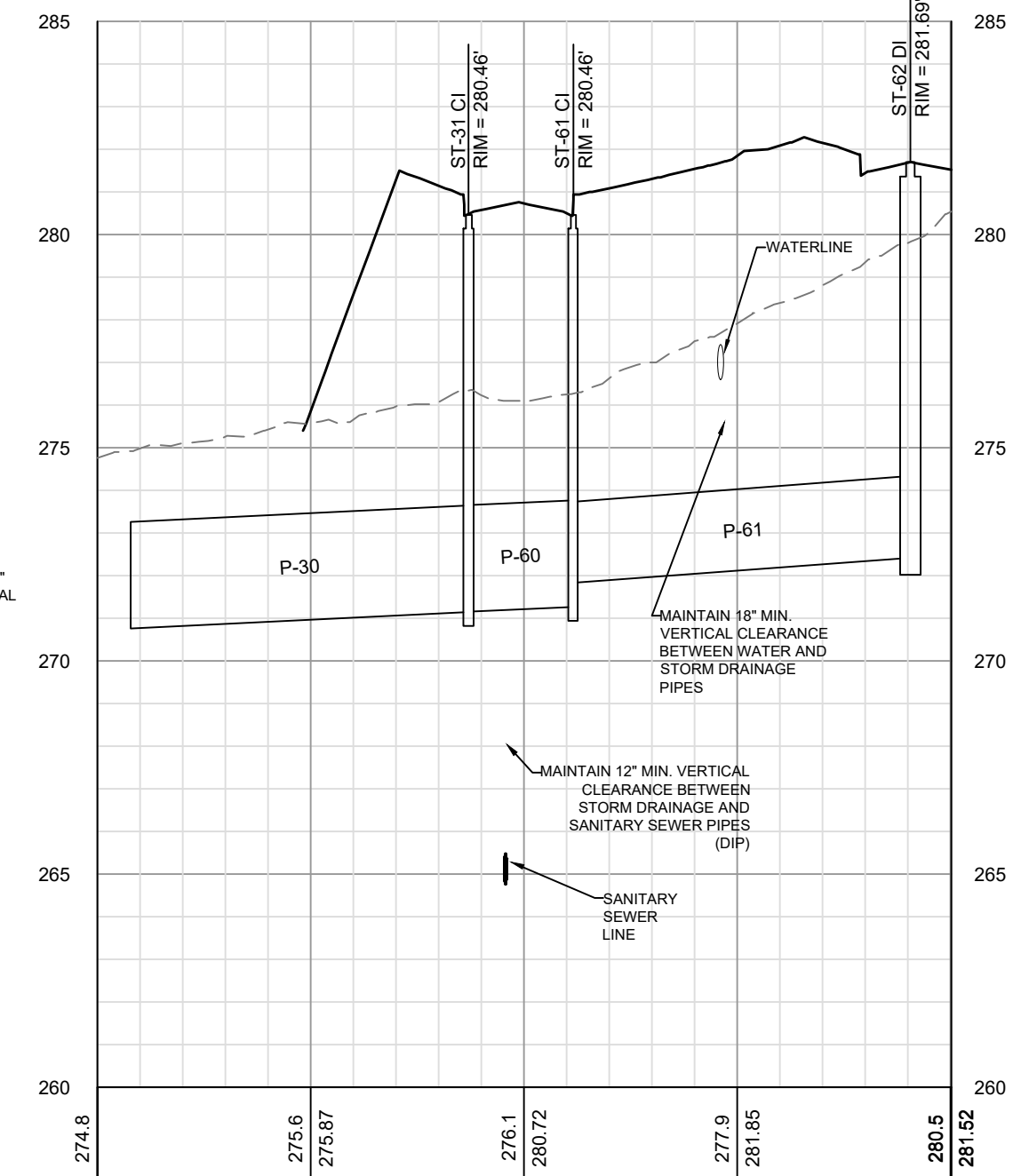
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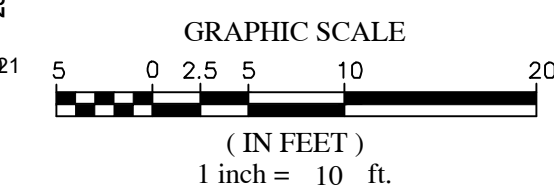
ST-59 ST-58 ST-32 ST-33 & ST-34 PROFILE



ST-31 ST-61 ST-62 PROFILE



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| 5 | REVISED PER MAKE COUNTY REVIEW COMMENTS 04/21/2022 | 03/03/2022 | DAS |
| 4 | REVISED PER CITY OF RALPHAH REVIEW COMMENTS 03/24/2022 | 04/09/2022 | DAS |
| 3 | REVISED PER MAKE COUNTY REVIEW COMMENTS 03/24/2022 | 04/06/2022 | DAS |
| 2 | REVISED PER MAKE COUNTY REVIEW COMMENTS 03/11/2022 | 03/25/2022 | DAS |
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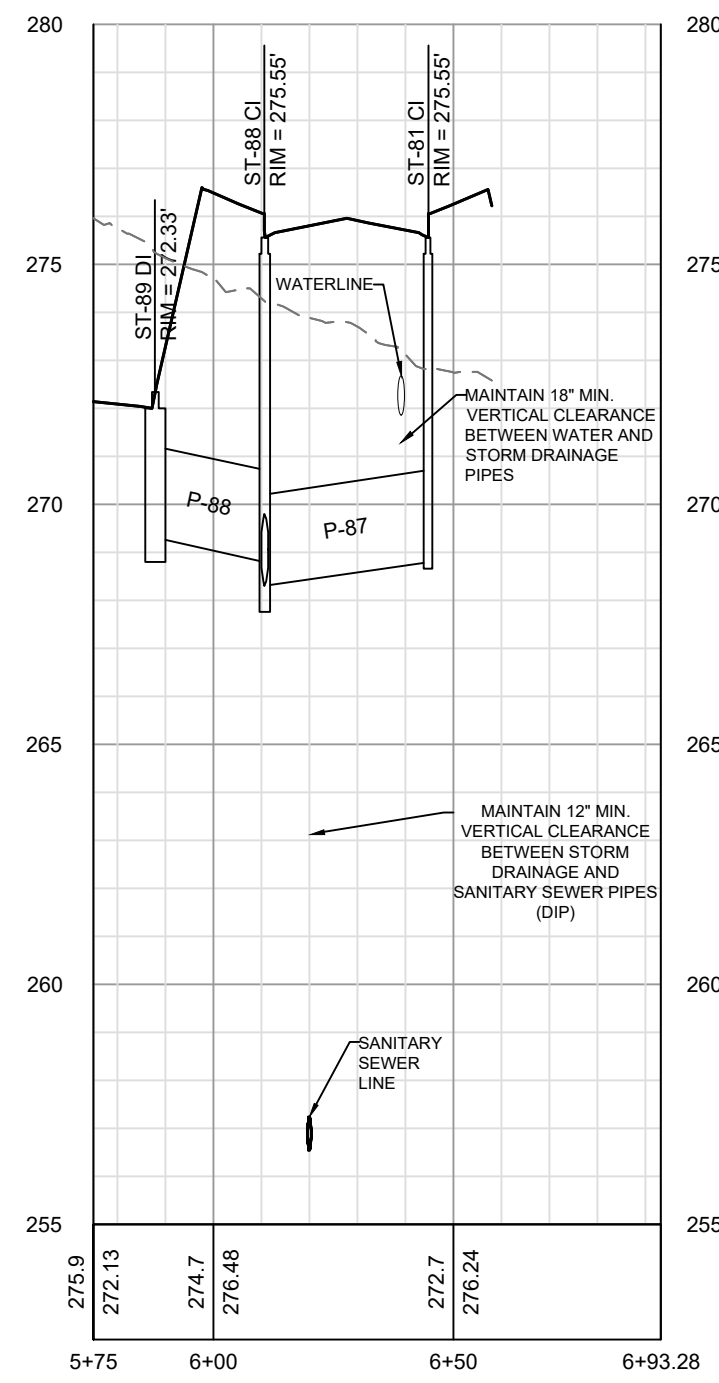
PROJECT ENGINEER/ARCHITECT
 AM (ALEX)MAGOT@SUMMITDE.NET
 PROJECT MANAGER
 DASON.SCHER@SUMMITDE.NET
 DRAWN BY
 JAJIMMYASHLEY@SUMMITDE.NET
 FIRST ISSUE DATE
 10/01/2021

SUMMIT
 DESIGN AND ENGINEERING SERVICES
 320 Executive Court
 Hillsborough, NC 27278
 Voice: (919) 732-2883 Fax: (919) 732-2476
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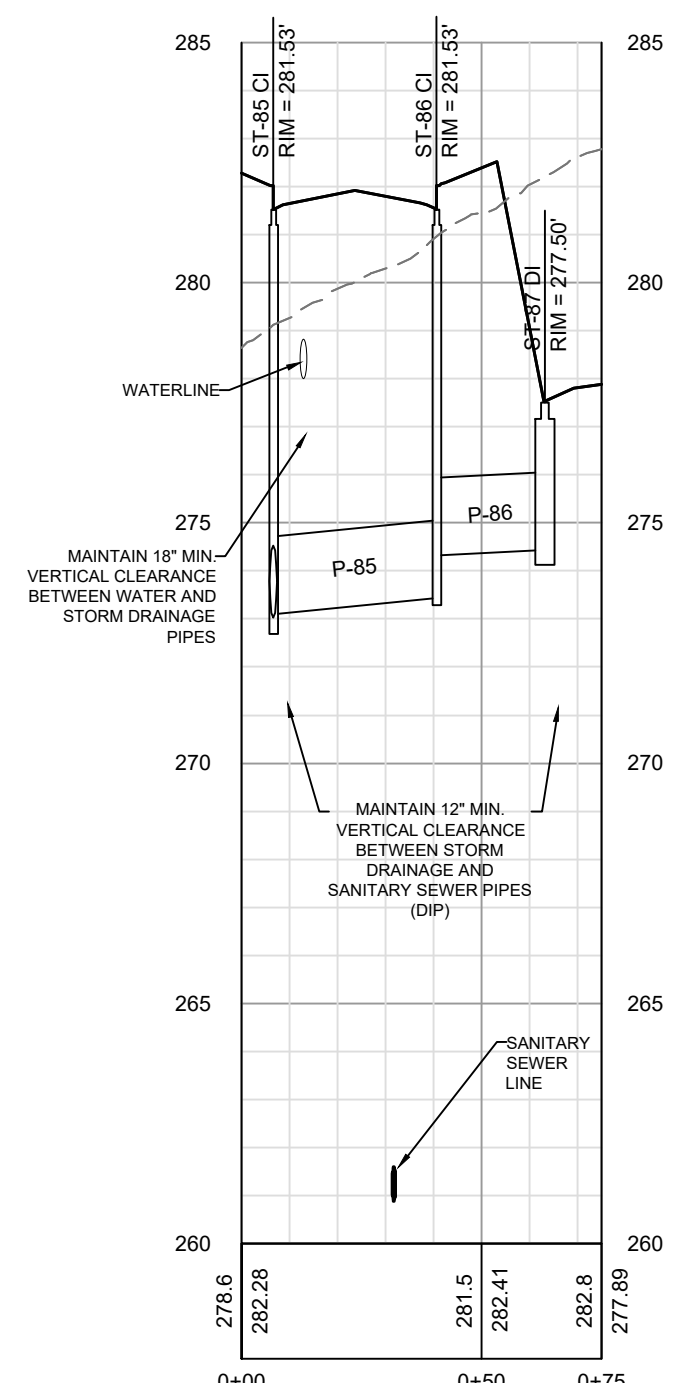
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

PROJECT NO.
19-0103
 DRAWING NAME:
 19-0103_p_storm.dwg
 SHEET NO.
P-1

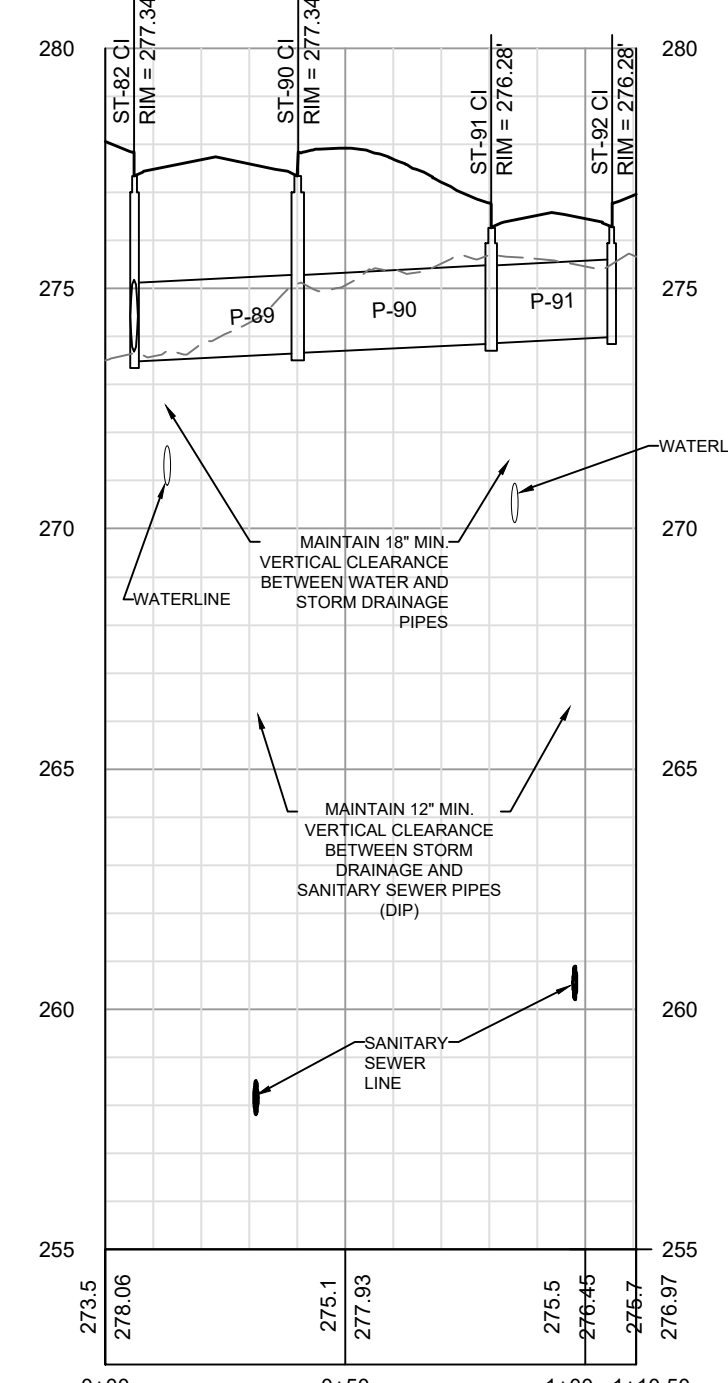
ST-89 ST-88 ST-81 & ST-80 PROFILE



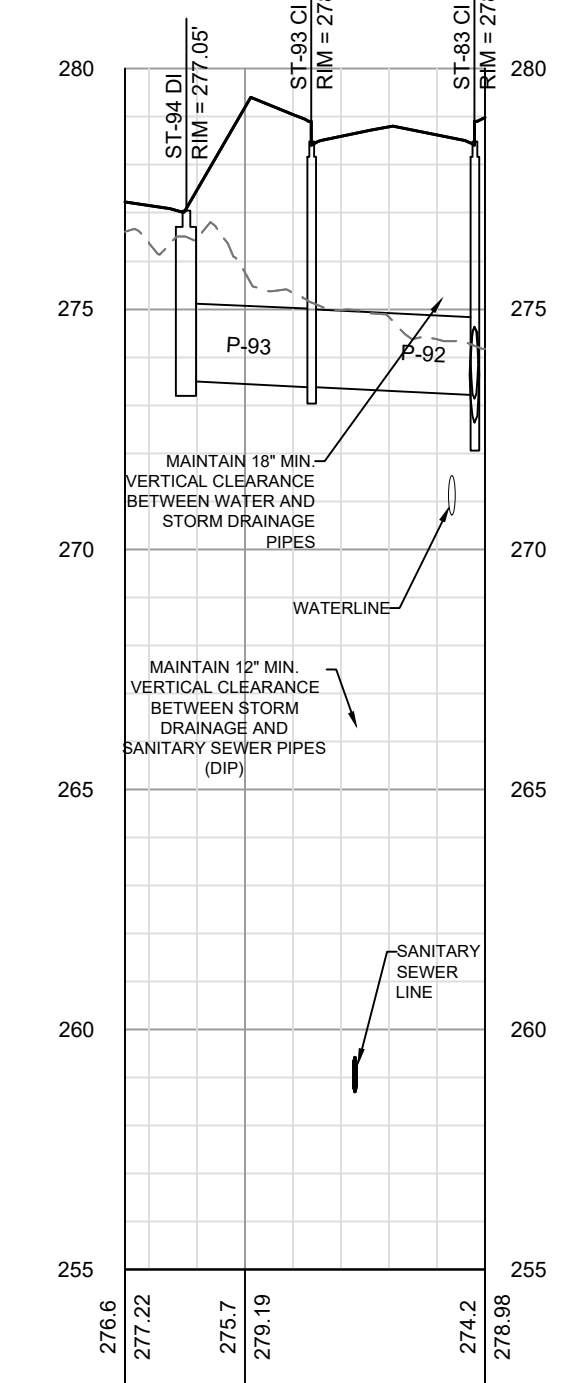
ST-85 ST-86 & ST-87 PROFILE



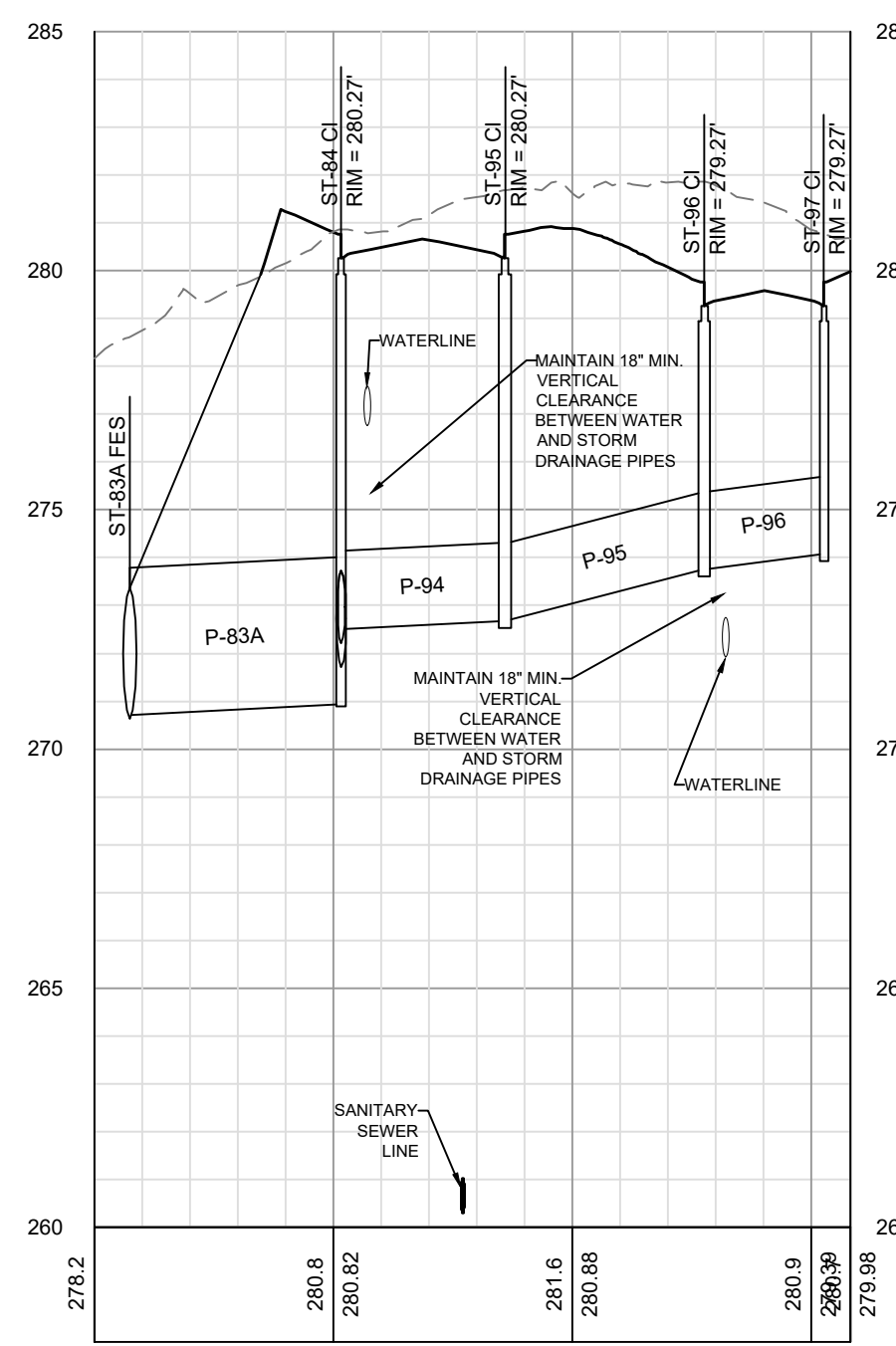
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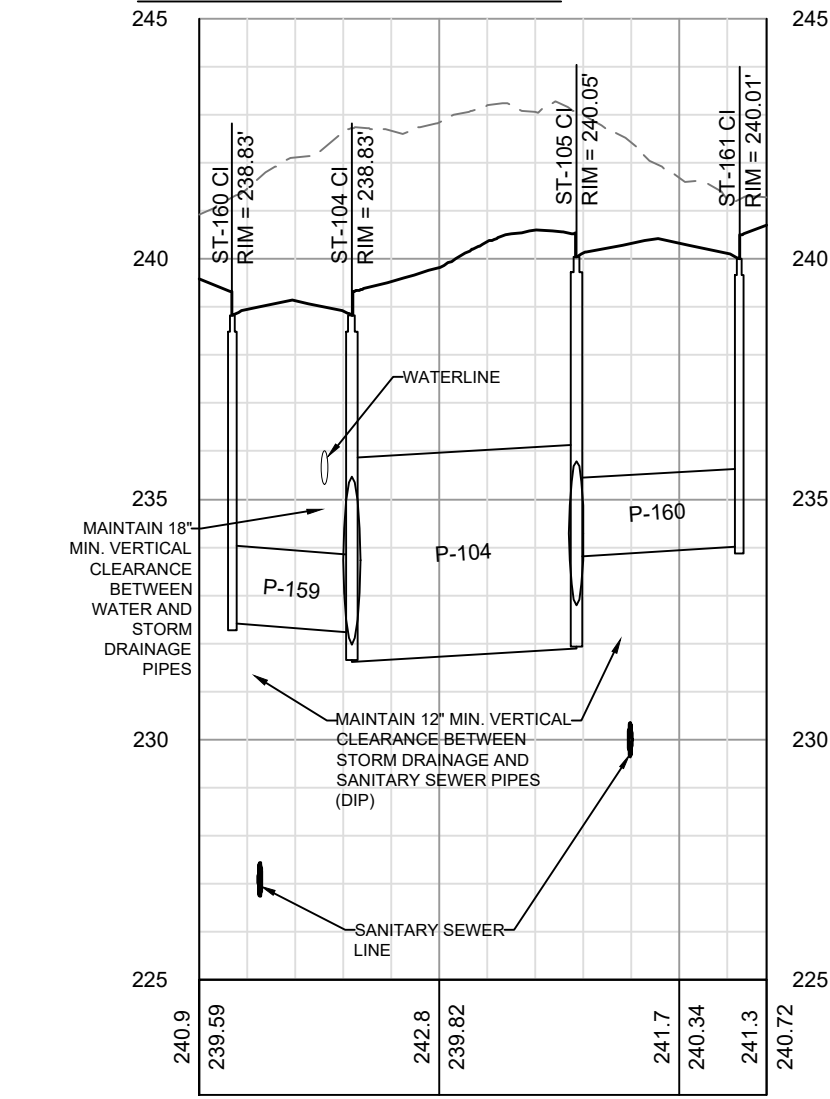
ST-94 ST-93 ST & ST-83 PROFILE



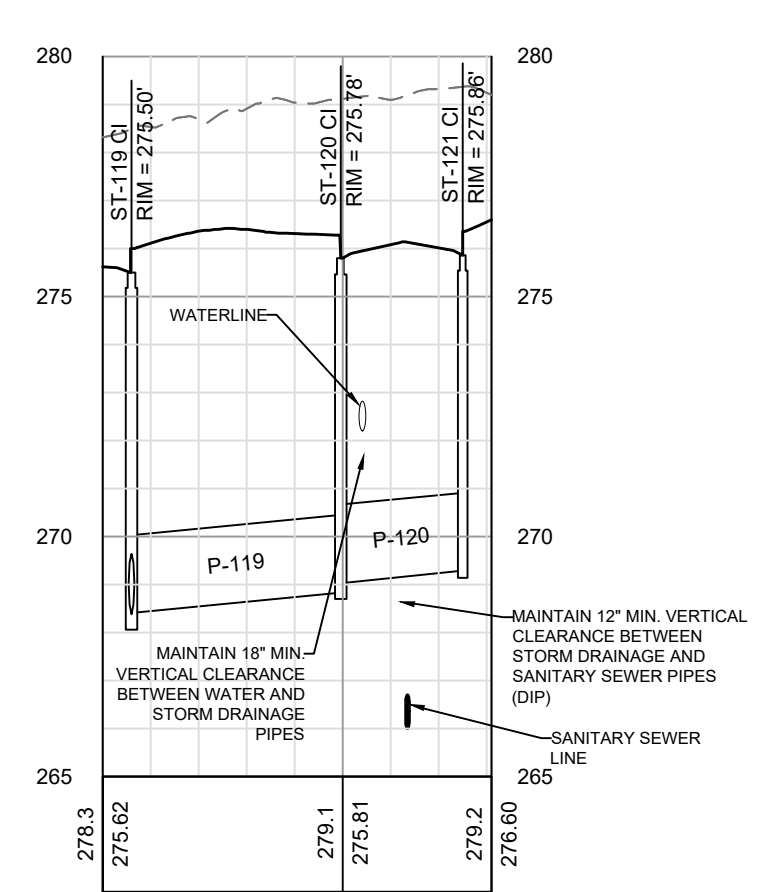
ST-84 ST-95 ST-96 & ST-97 PROFILE



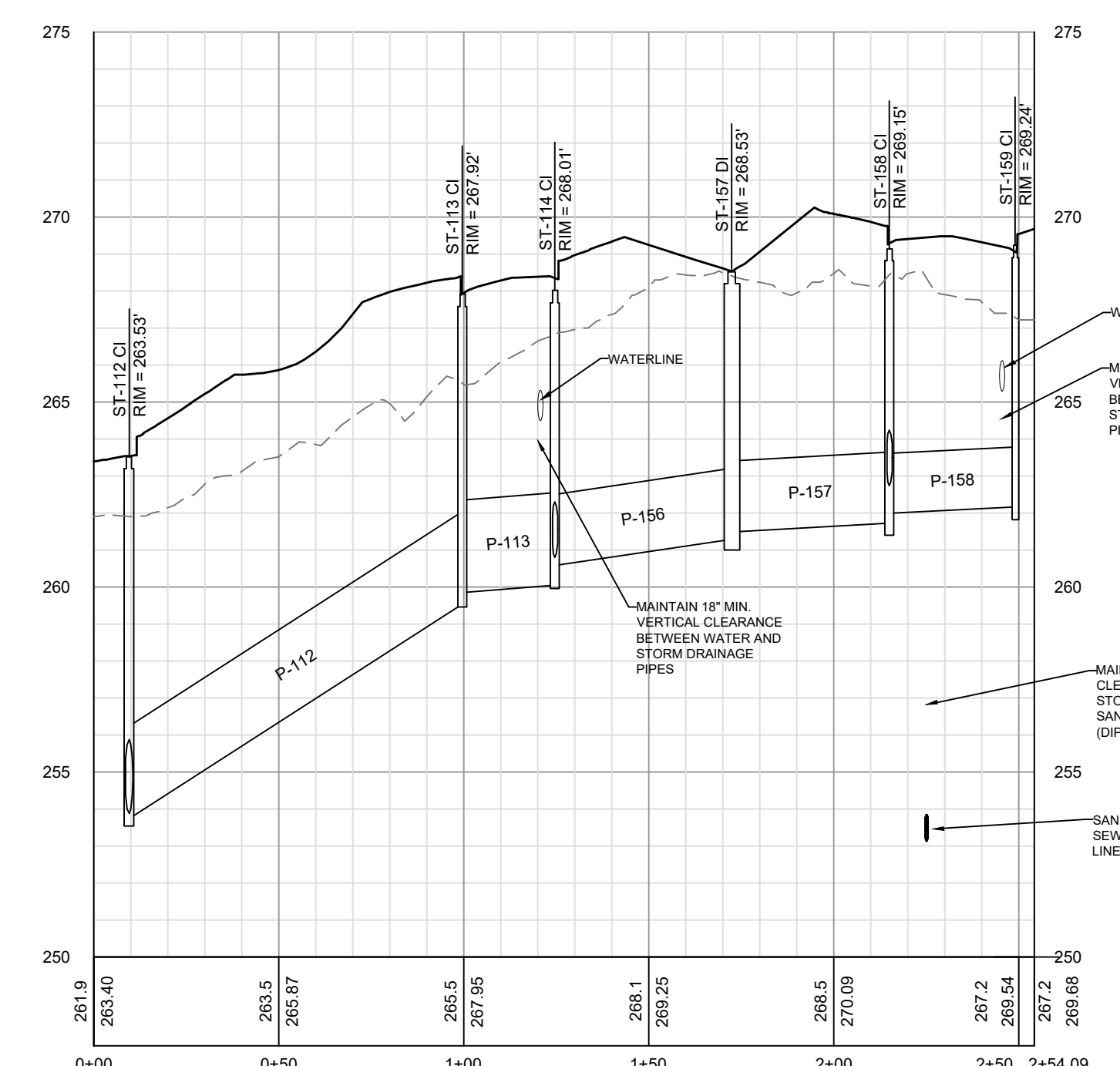
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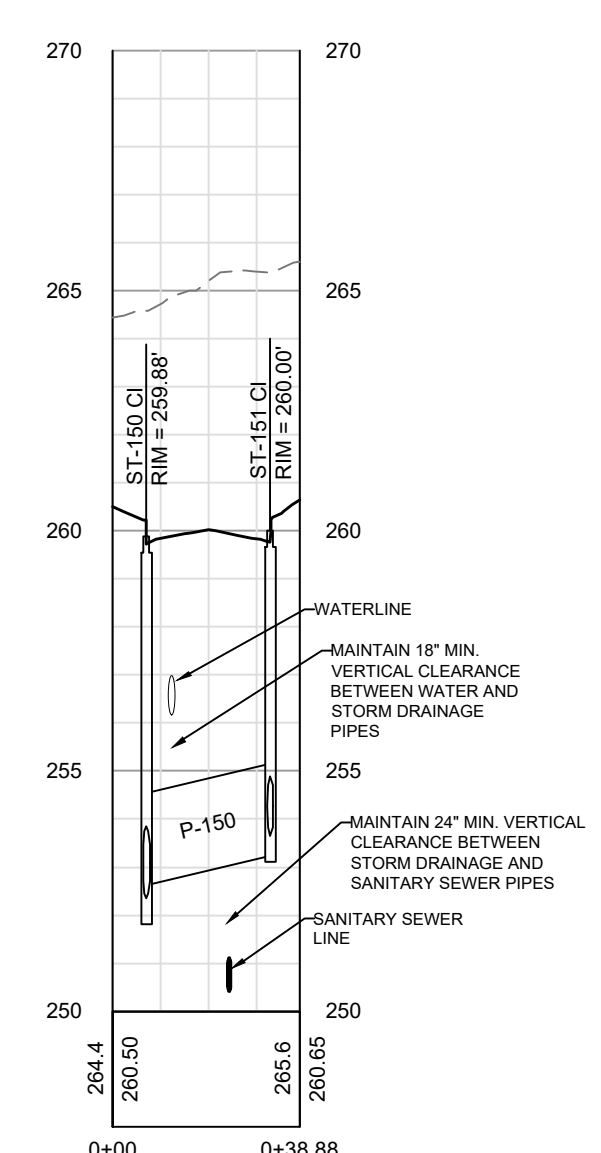
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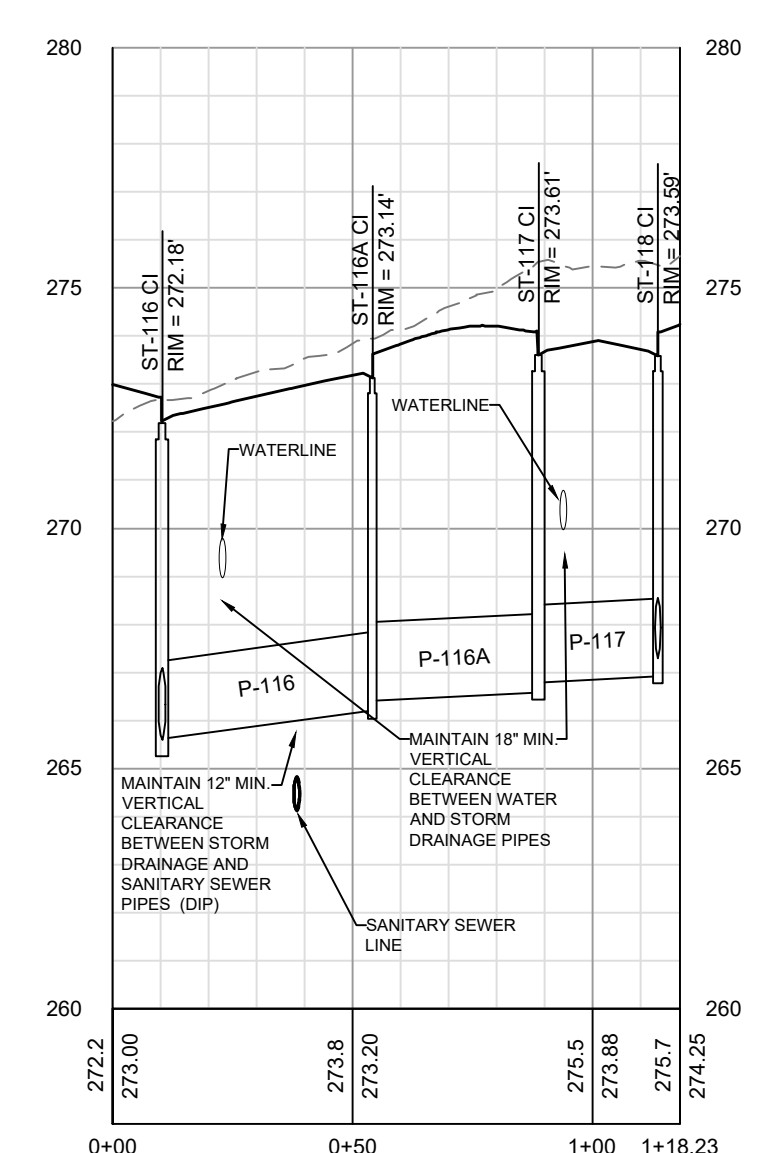
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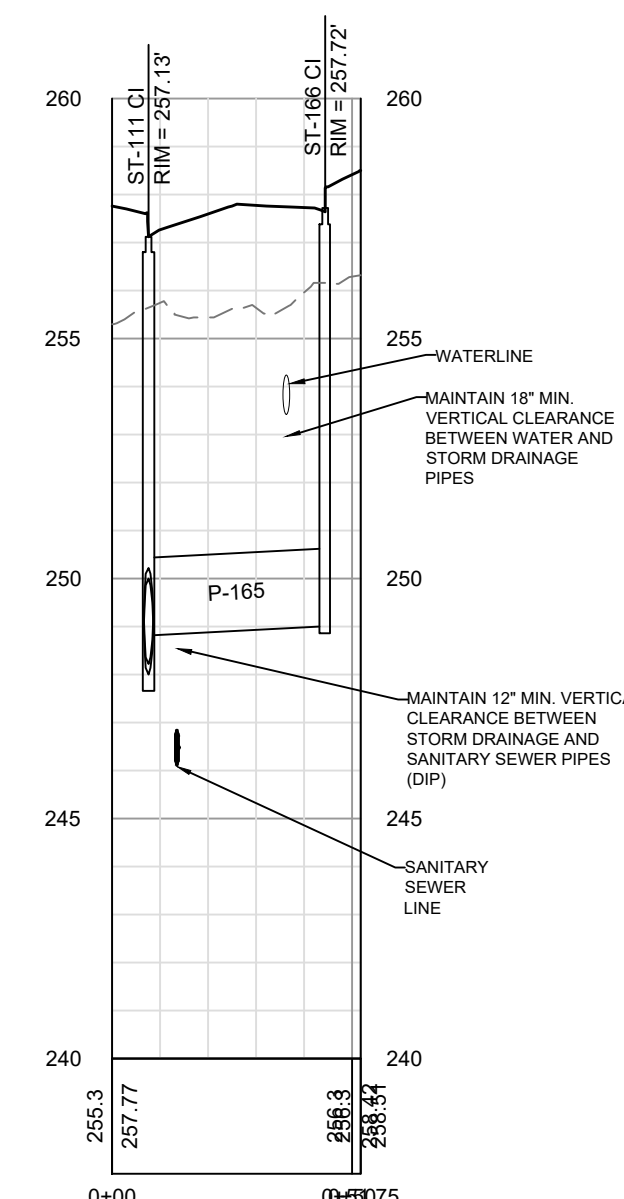
ST-150 & ST-151 PROFILE



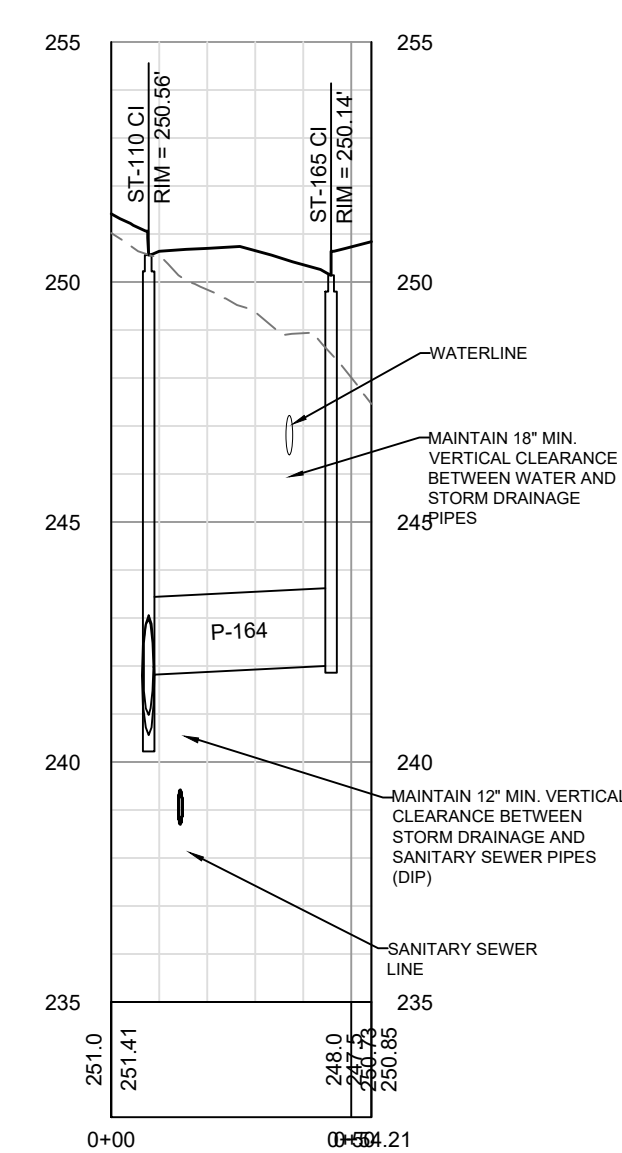
ST-116 ST-117 & ST-118 PROFILE



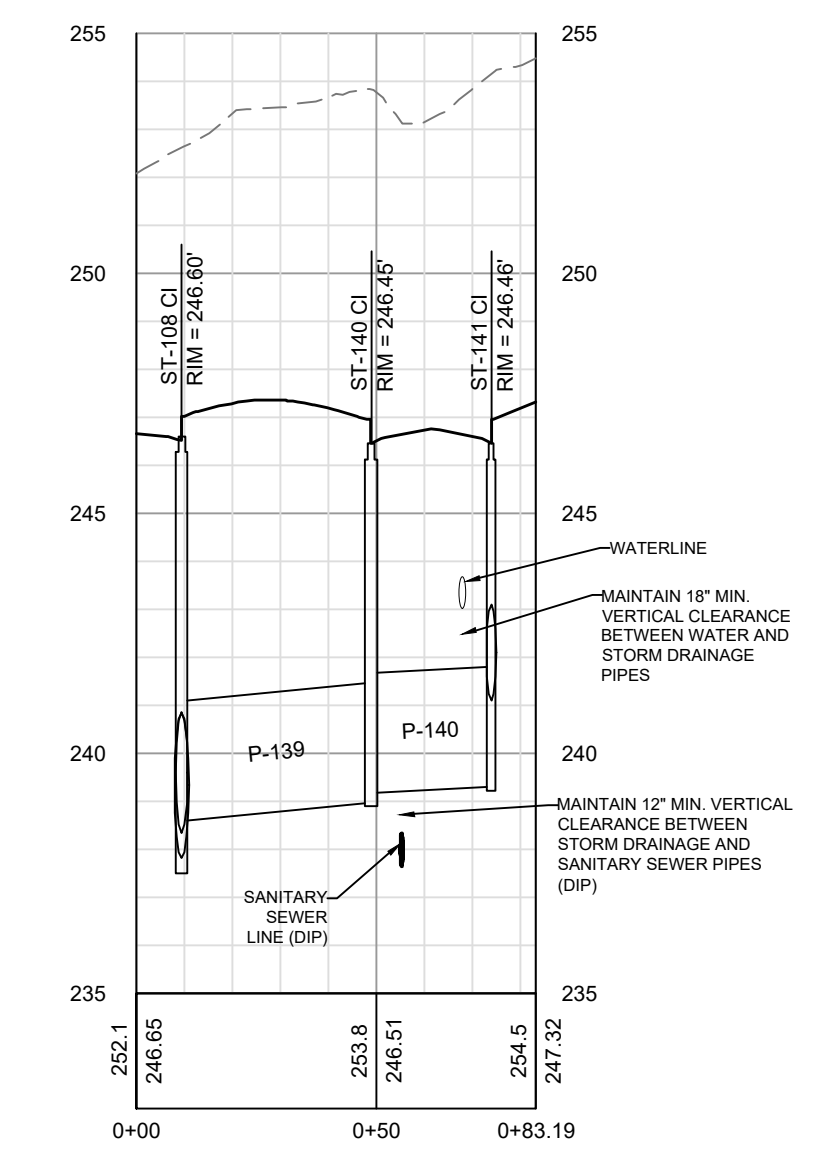
ST-111 & ST-166 PROFILE



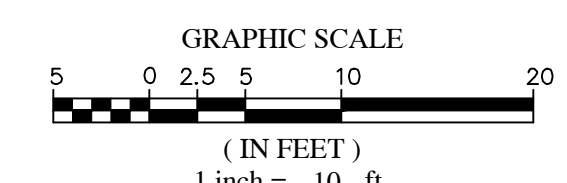
ST-110 & ST-165 PROFILE



ST-108 ST-140 & ST-141 PROFILE



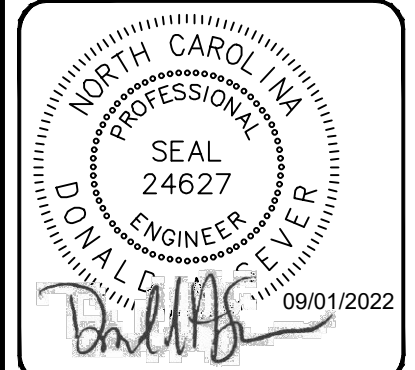
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| 5 | REVISED PER MAKE COUNTY REVIEW COMMENTS 04/27/2022 | 05/03/2022 | DAS |
| 4 | REVISED PER CITY OF RALPHAH REVIEW COMMENTS 03/24/2022 | 04/06/2022 | DAS |
| 3 | REVISED PER MAKE COUNTY REVIEW COMMENTS 03/24/2022 | 04/06/2022 | DAS |
| 2 | REVISED PER MAKE COUNTY REVIEW COMMENTS 02/17/2022 | 02/25/2022 | DAS |
| 1 | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/23/2021 | 01/07/2022 | DAS |

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PROJECT ENGINEER/ARCHITECT
AMALEXANDER@SUMMITDE.NET
PROJECT MANAGER
DASDAN@SUMMITDE.NET
DRAWN BY
JLAJUNYASHLEY@SUMMITDE.NET
FIRST ISSUE DATE
10/01/2021

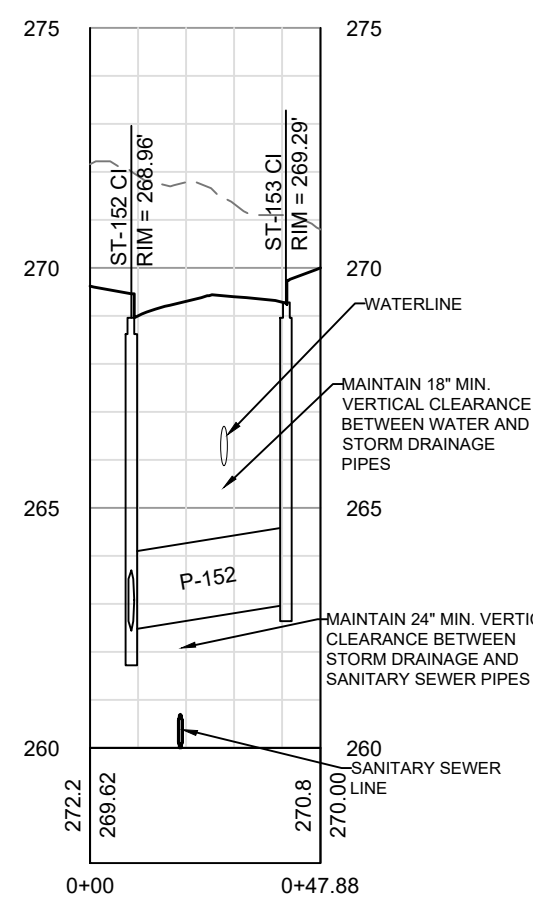


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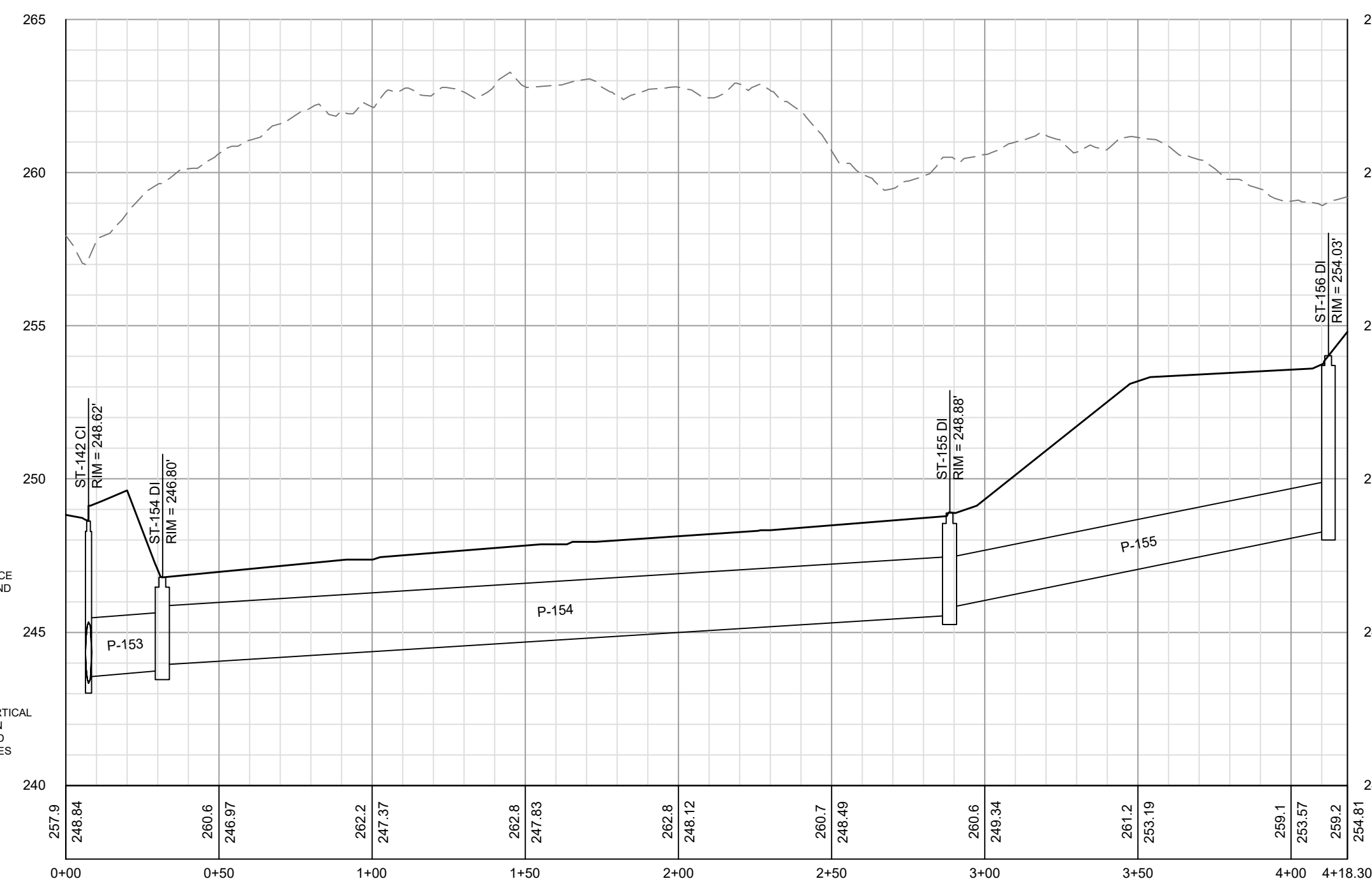
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
STORM PROFILES

PROJECT NO.
19-0103
DRAWING NAME:
19-0103_p_storm.dwg
SHEET NO.
P-2

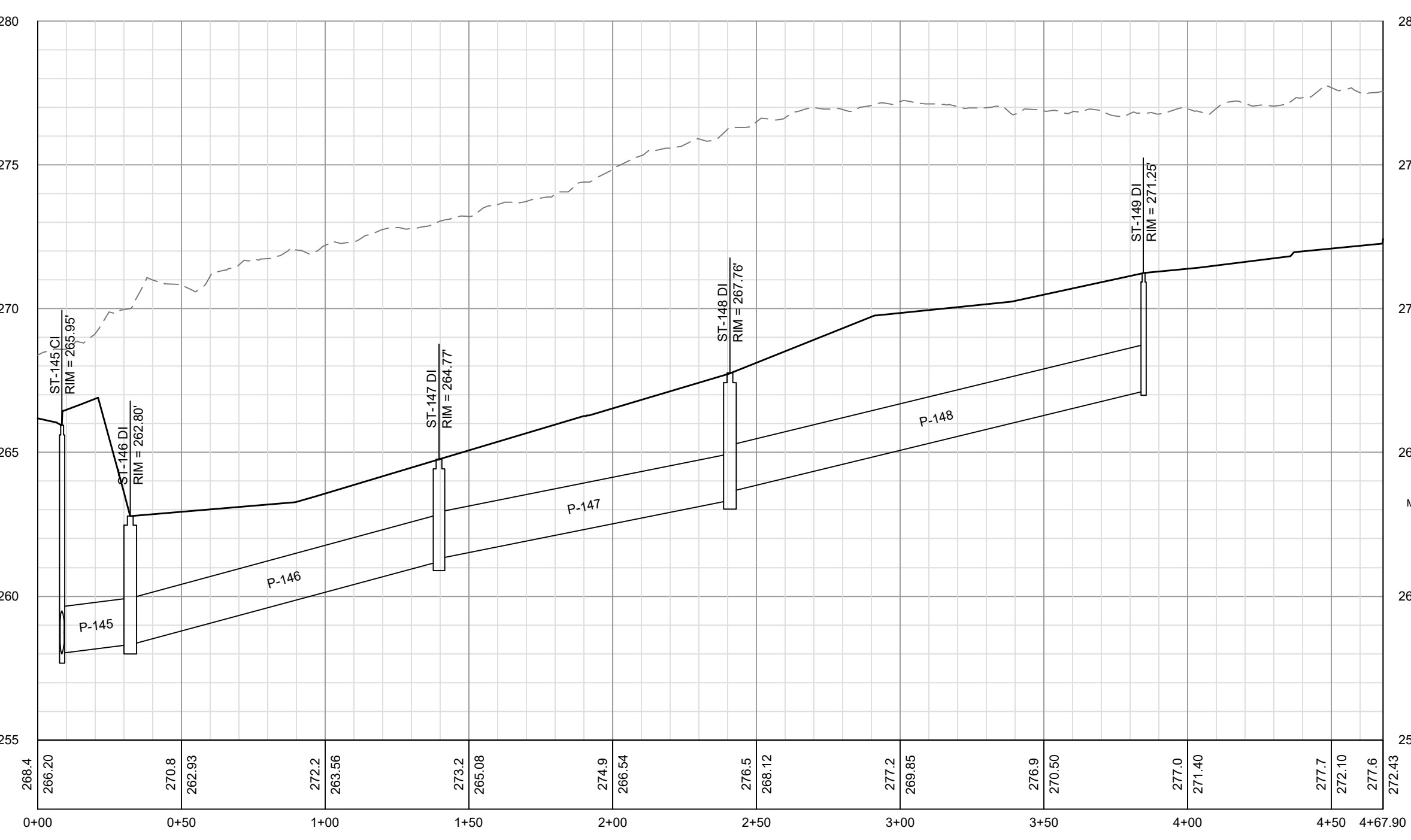
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ST-142 ST-154 ST-155 & ST-156 PROFILE

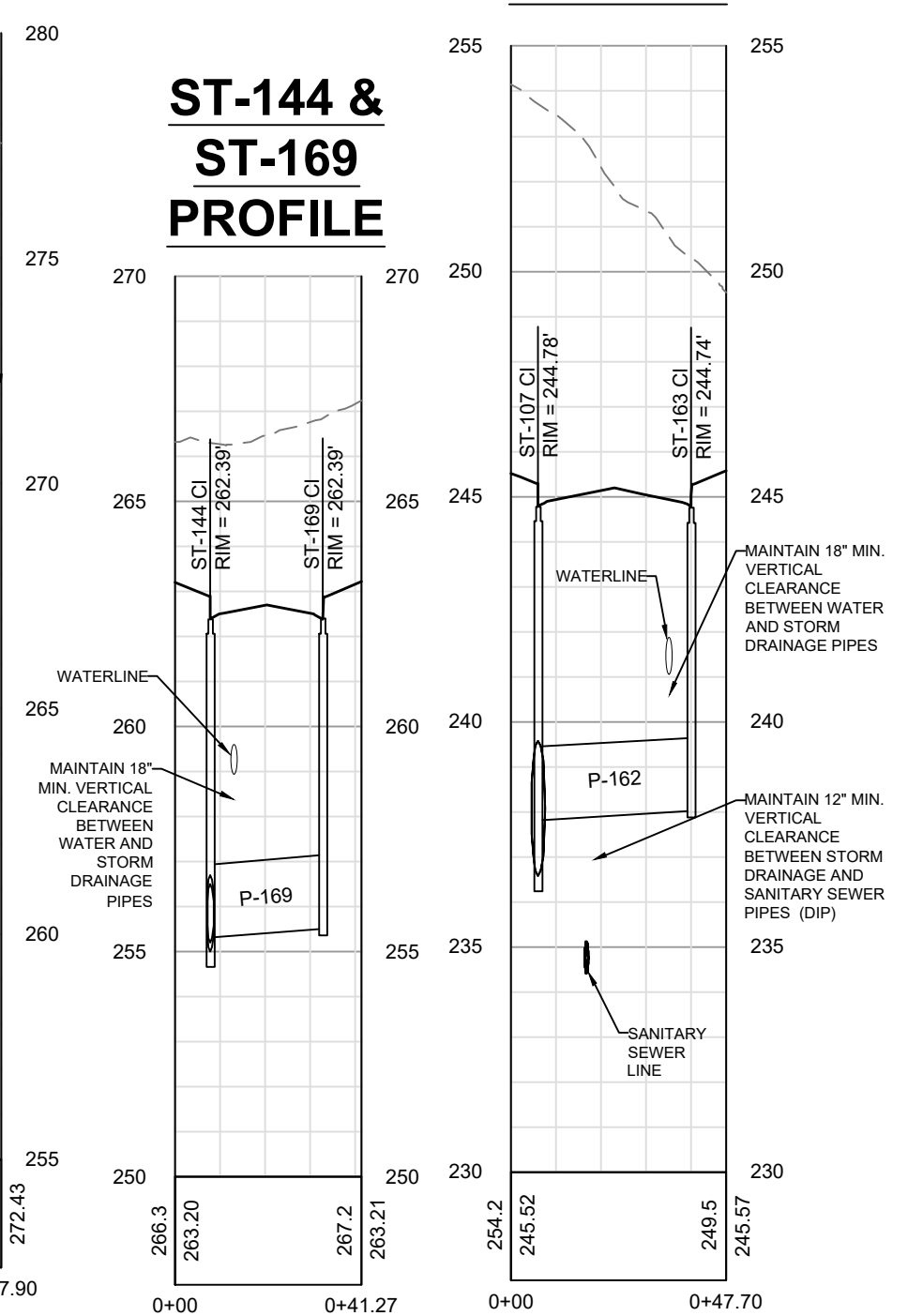


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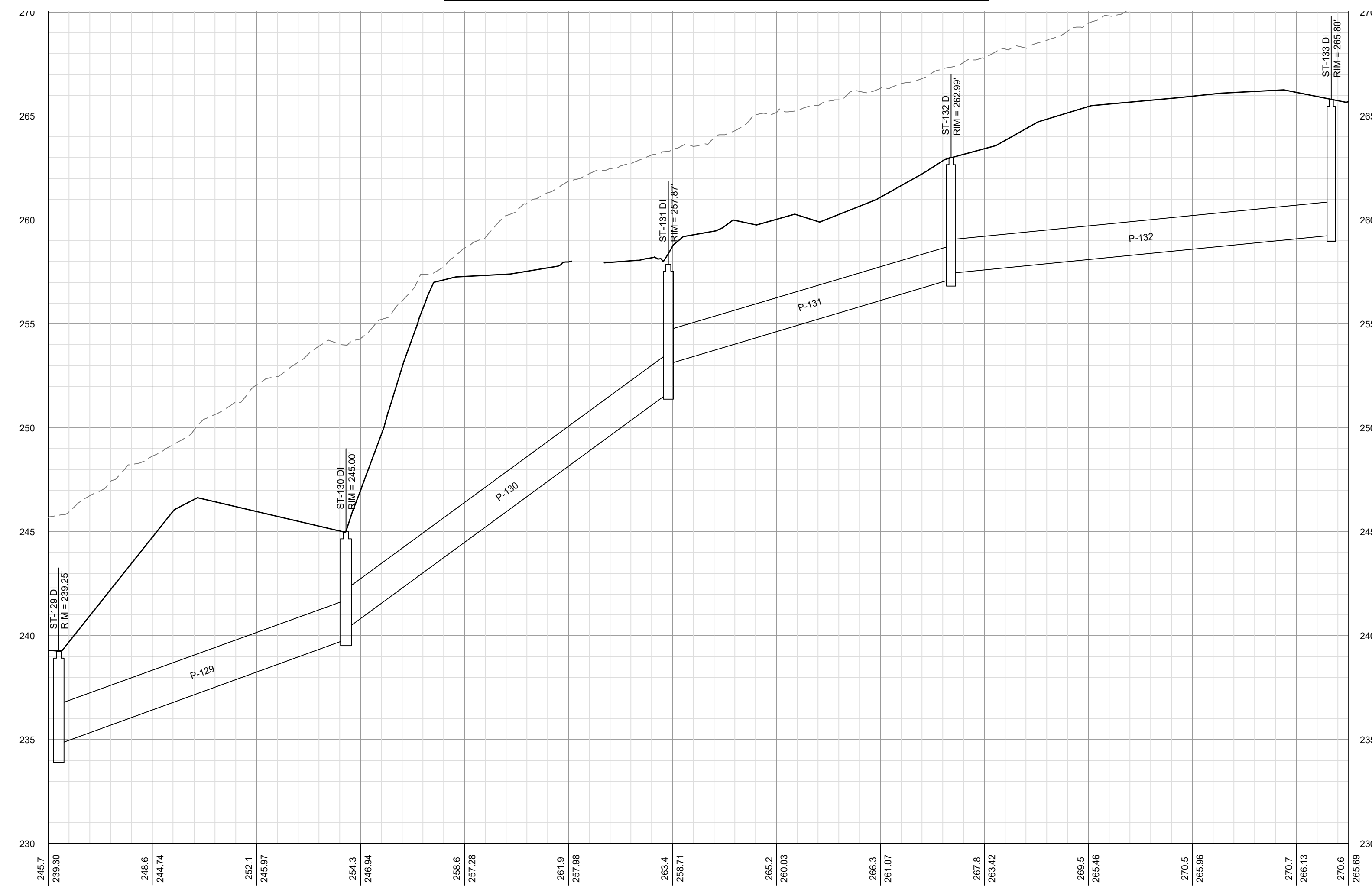


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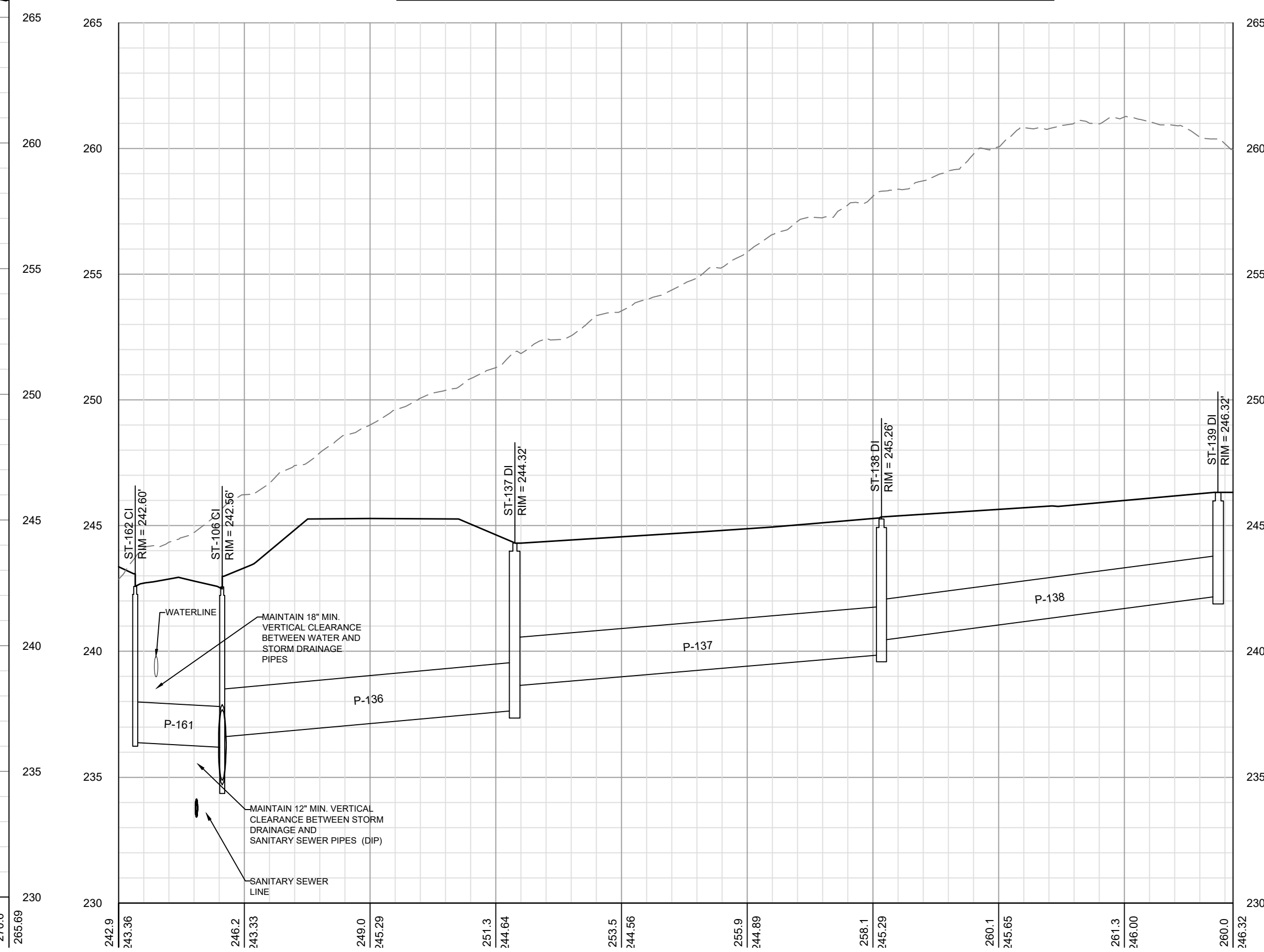
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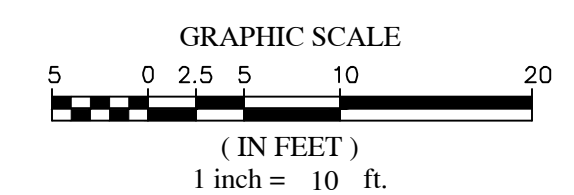
ST-129 ST-130 ST-131 ST-132 & ST-133 PROFILE



ST-162 ST-106 ST-137 ST-138 & ST-139 PROFILE



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 PROJECT MANAGER: ALEXANDER G. SUMMERS
 DESIGNER: JIMMY ASHLEY
 DRAWN BY: JIMMY ASHLEY
 FIRST ISSUE DATE: 05/01/2022

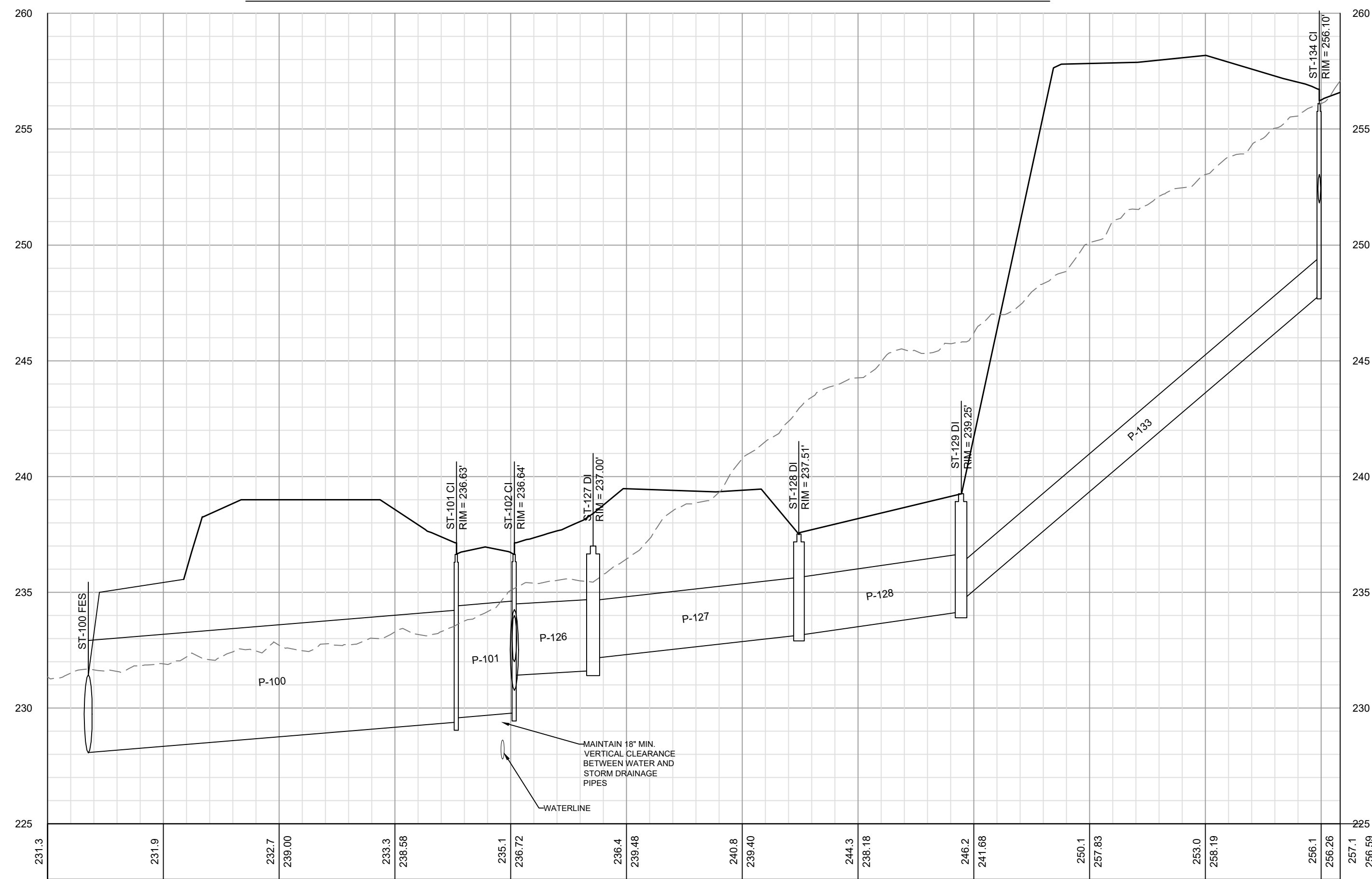
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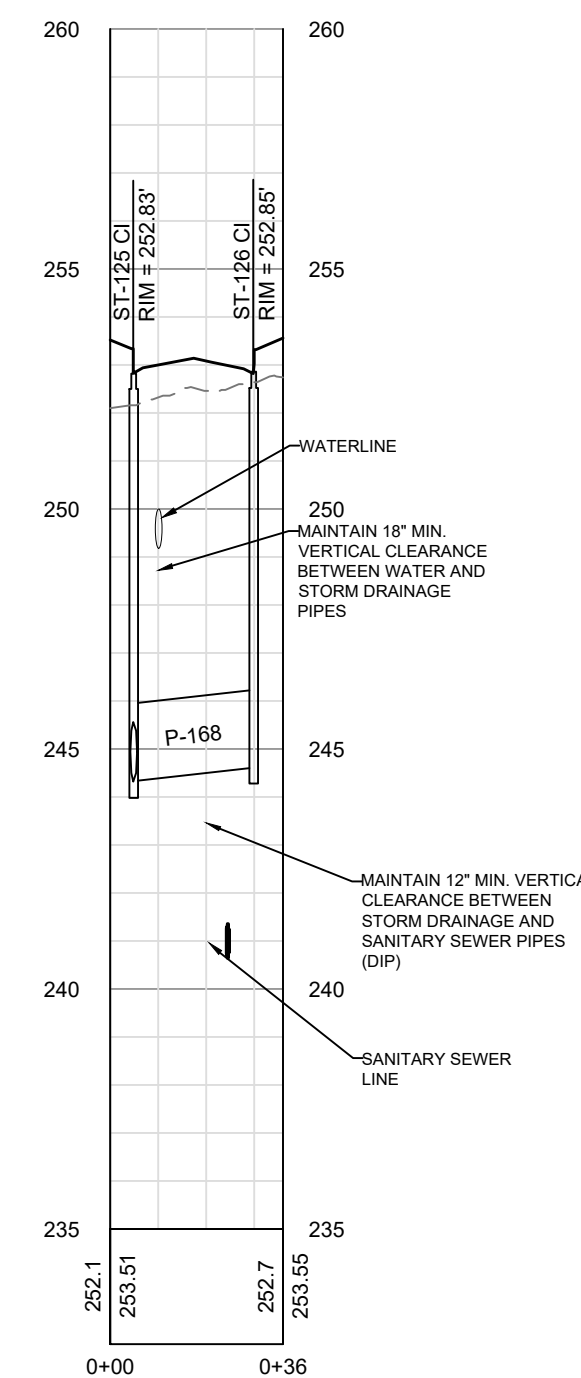
STORM PROFILES

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 DRAWING NAME: 19-0103_p_storm.dwg
 SHEET NO: P-3

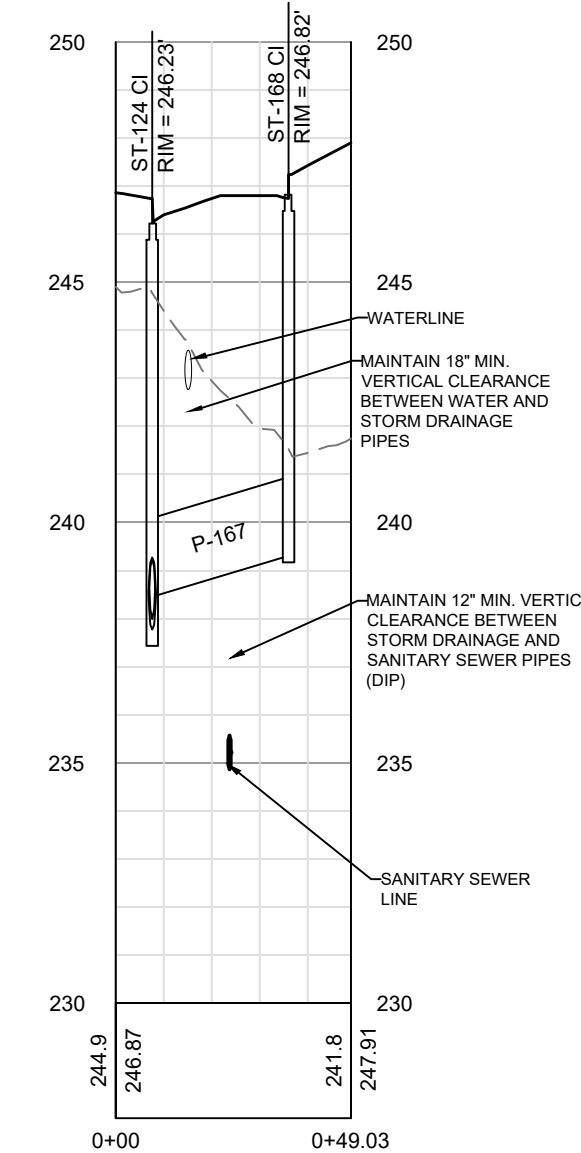
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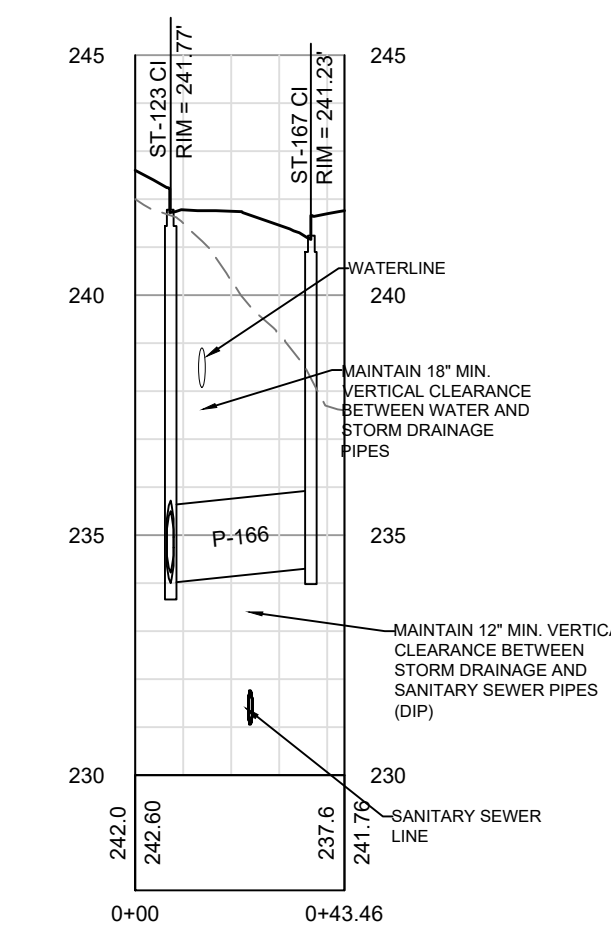
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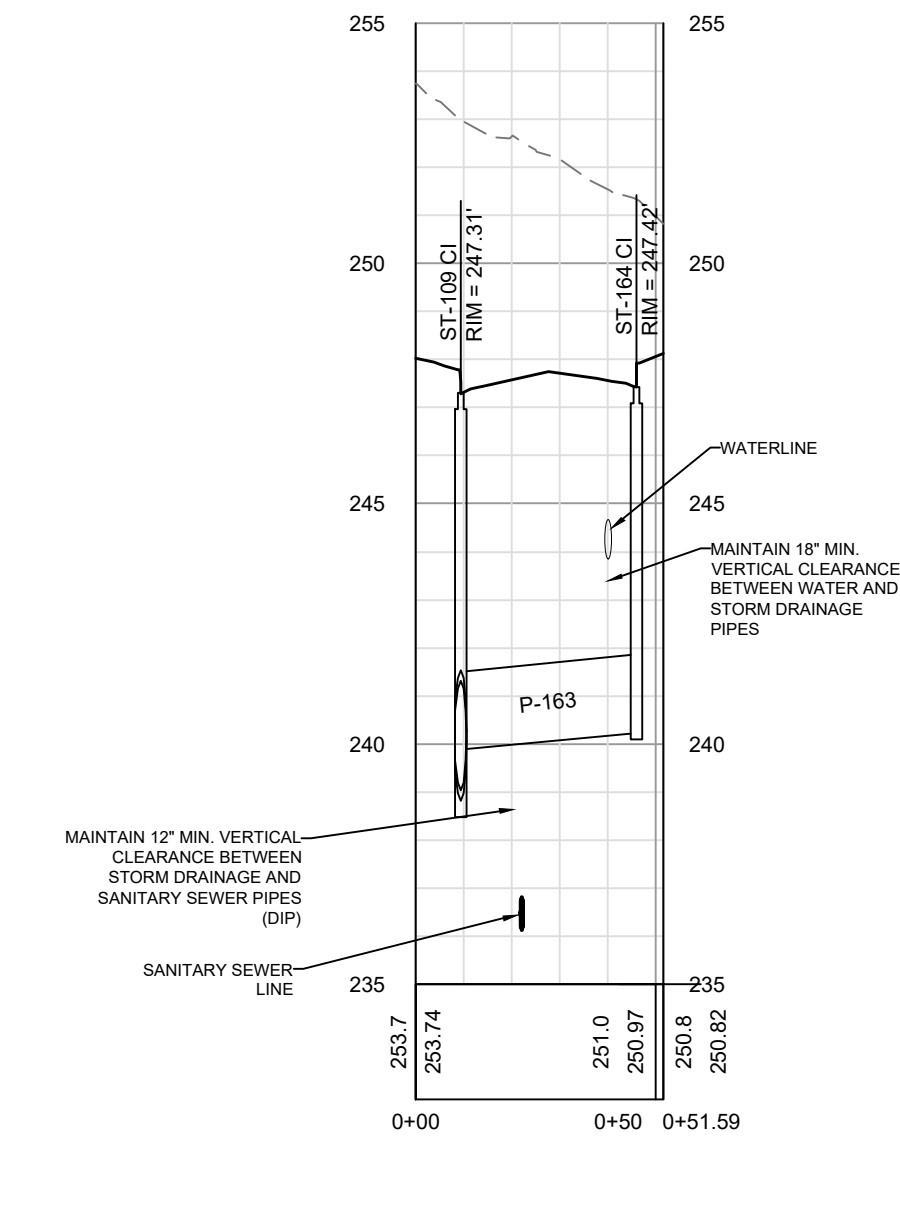
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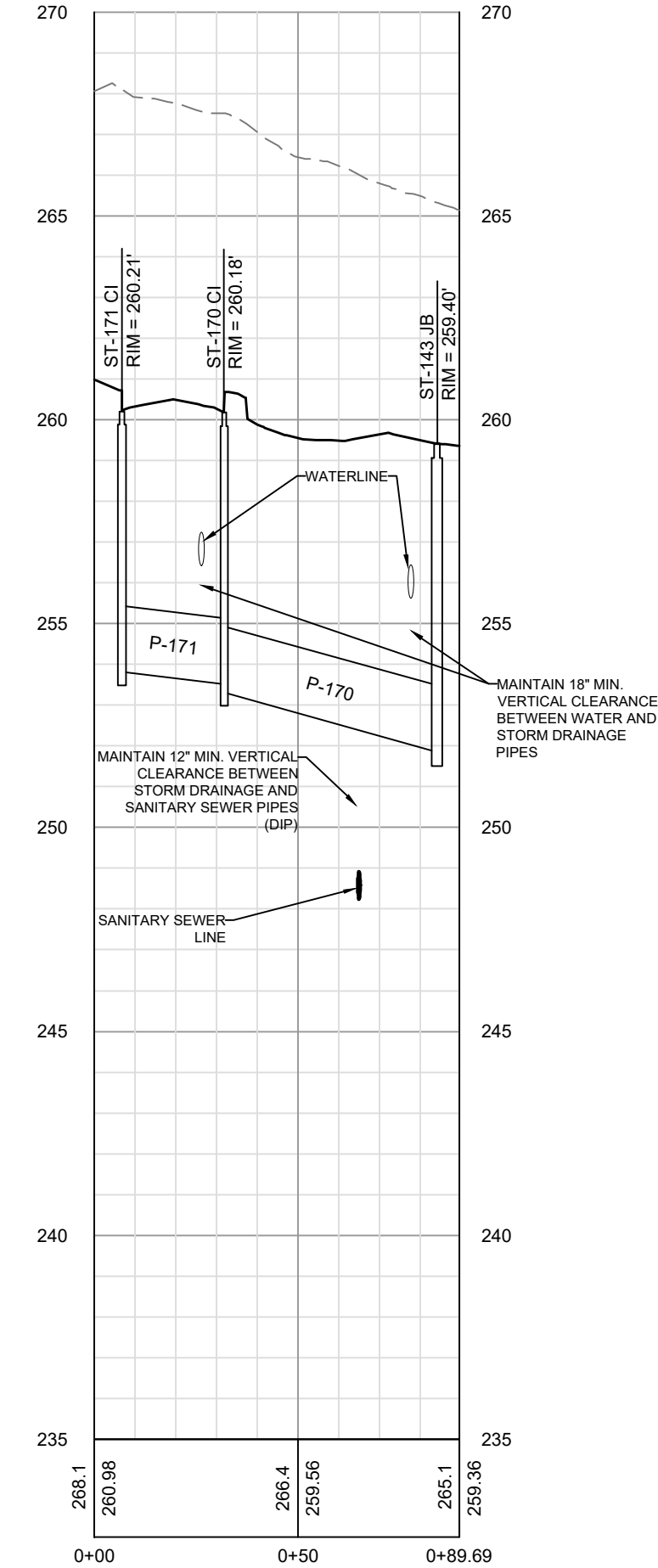
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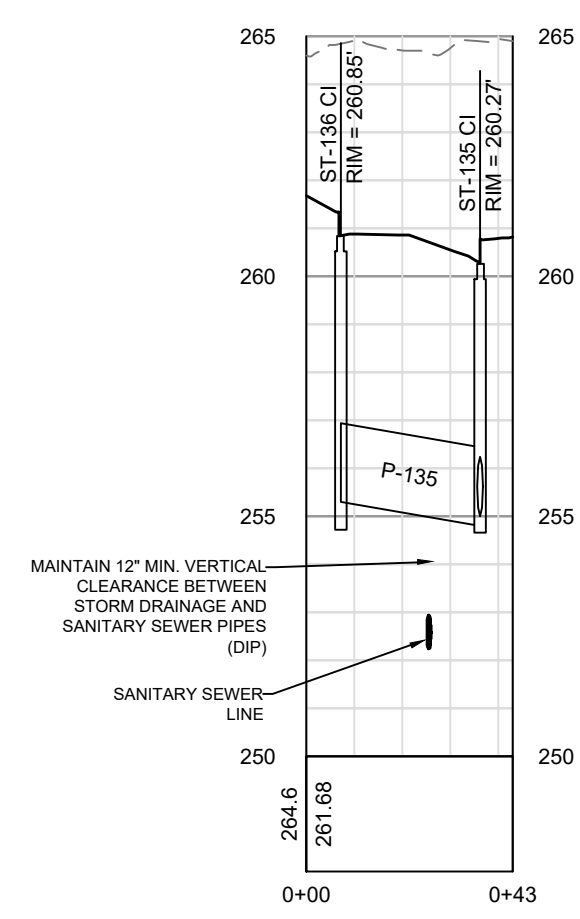
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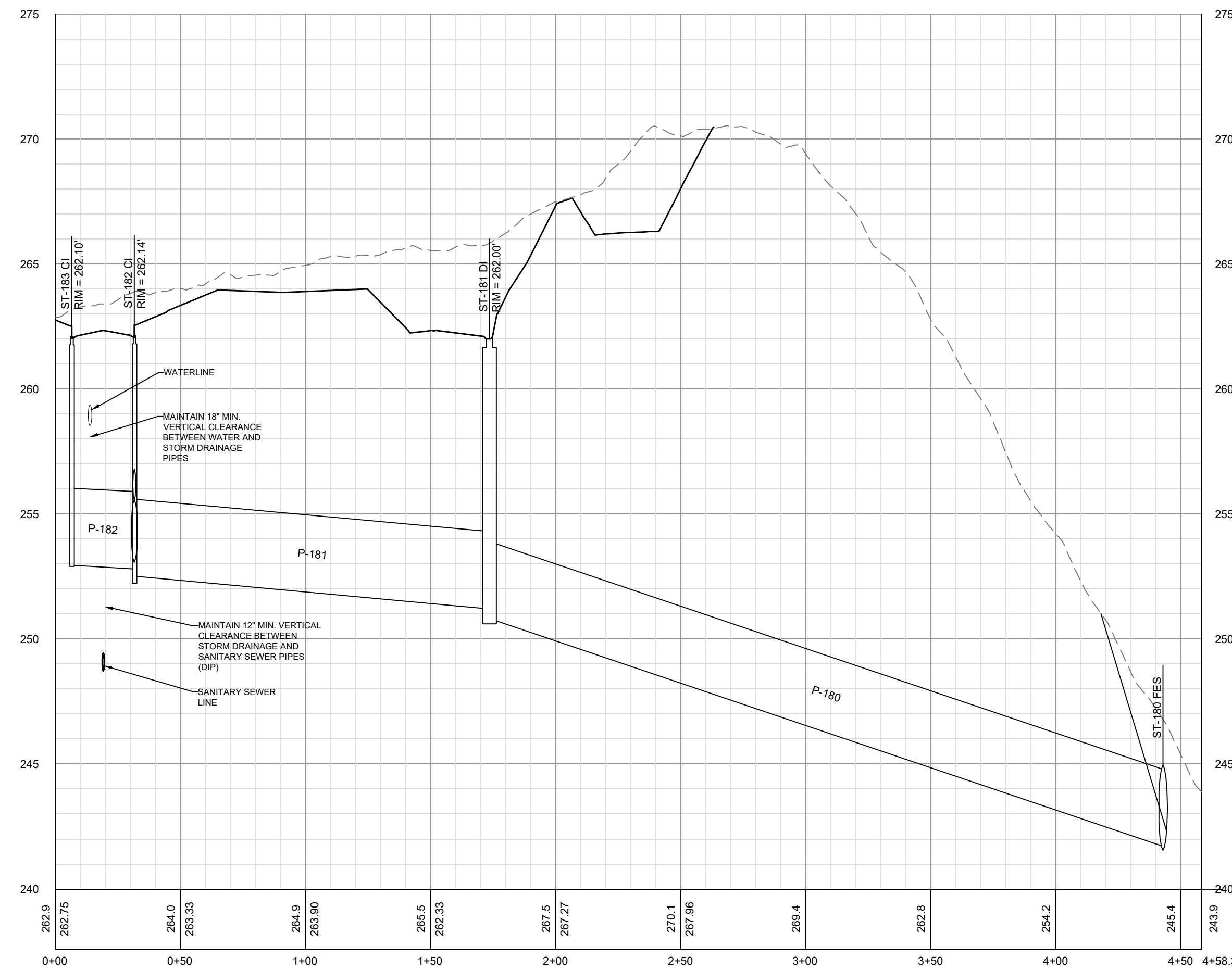
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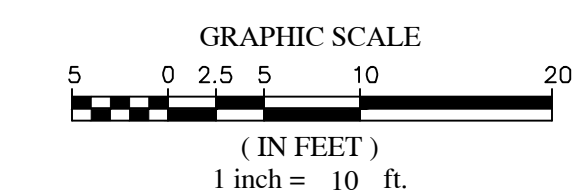
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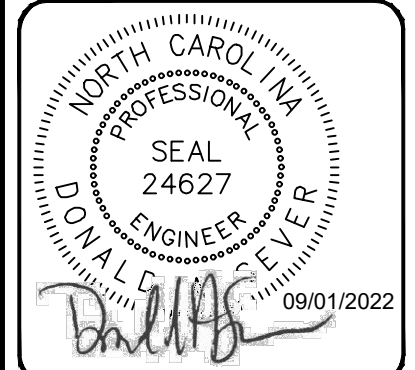
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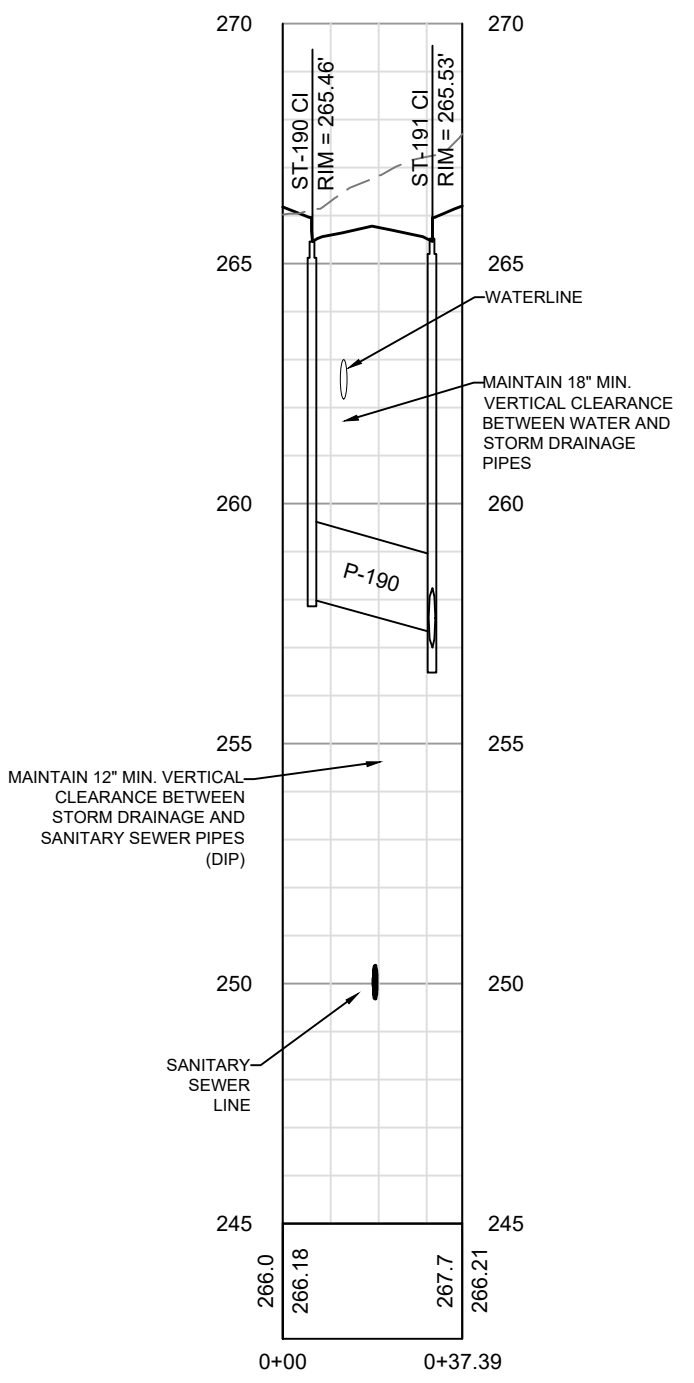


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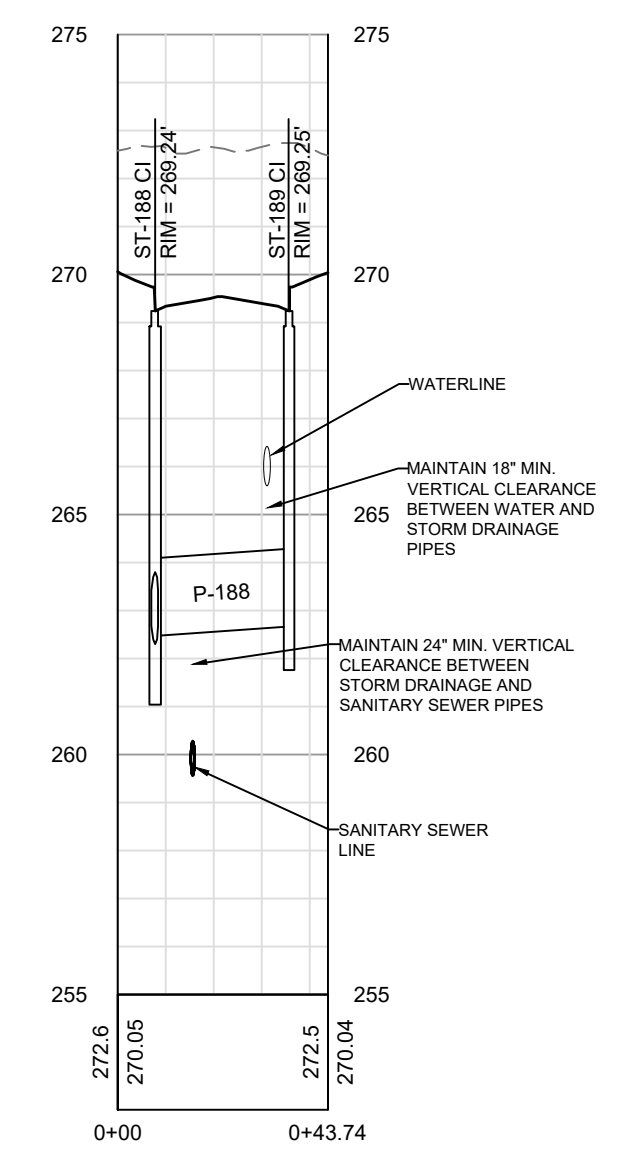
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STORM PROFILES

PROJECT NO.
19-0103
DRAWING NAME:
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SHEET NO.
P-3A

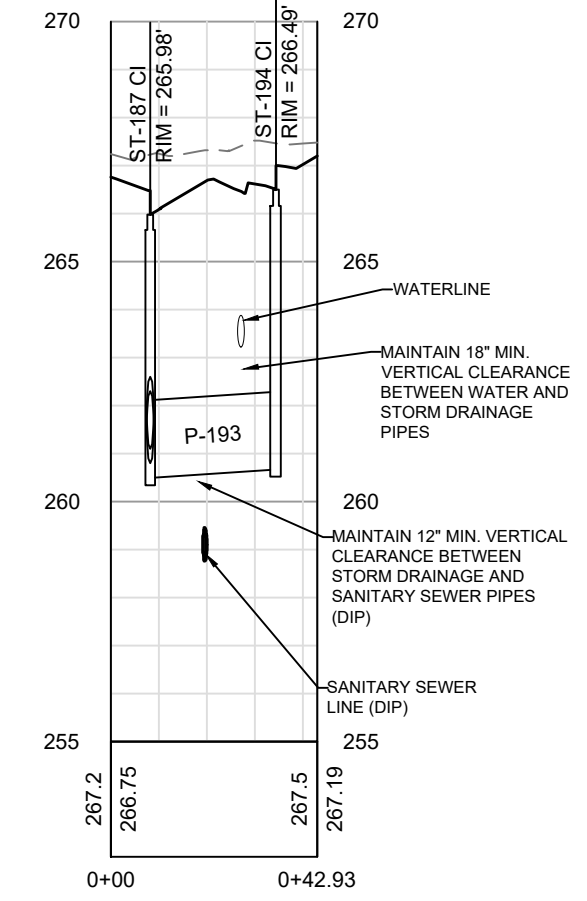
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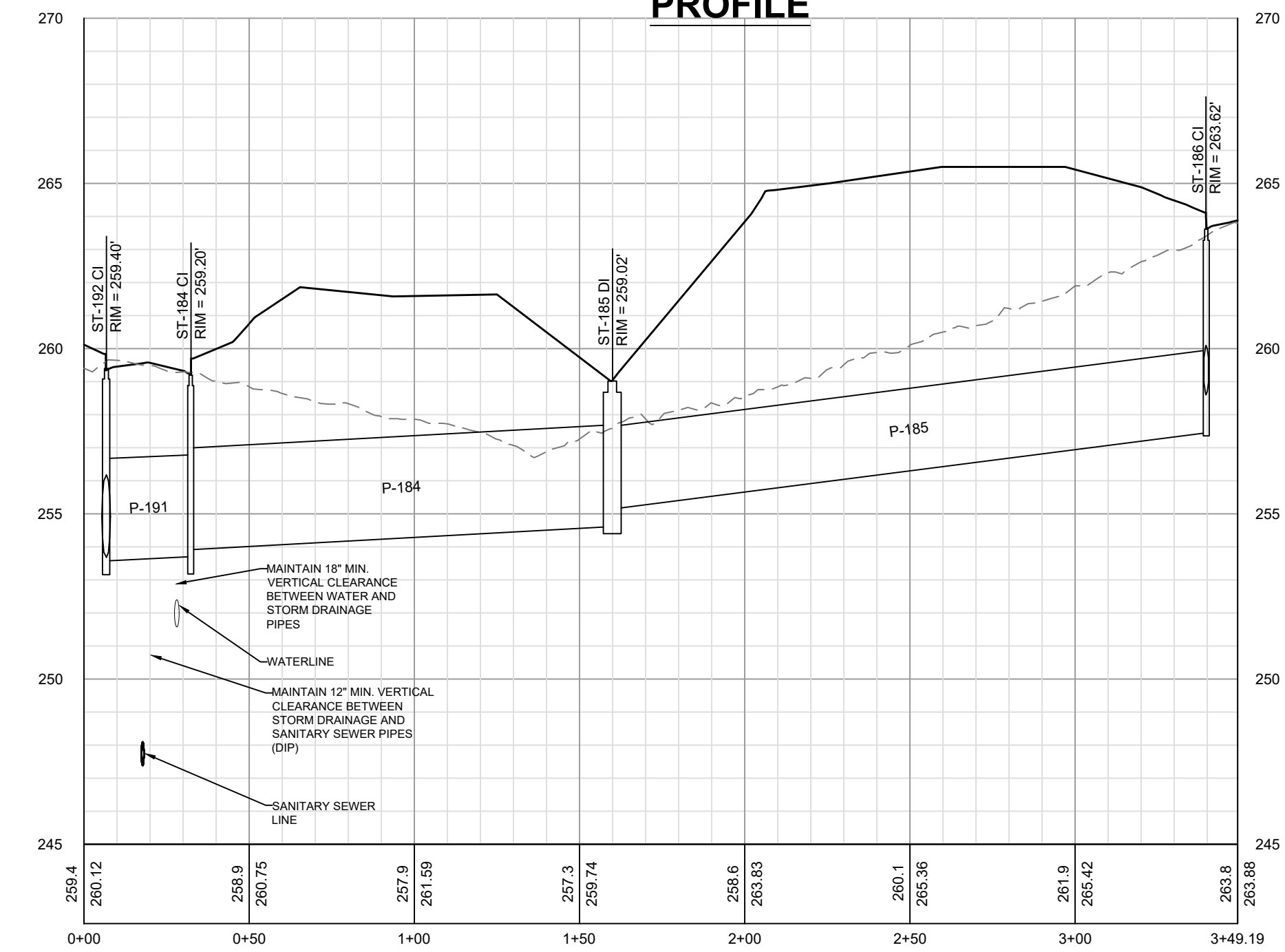
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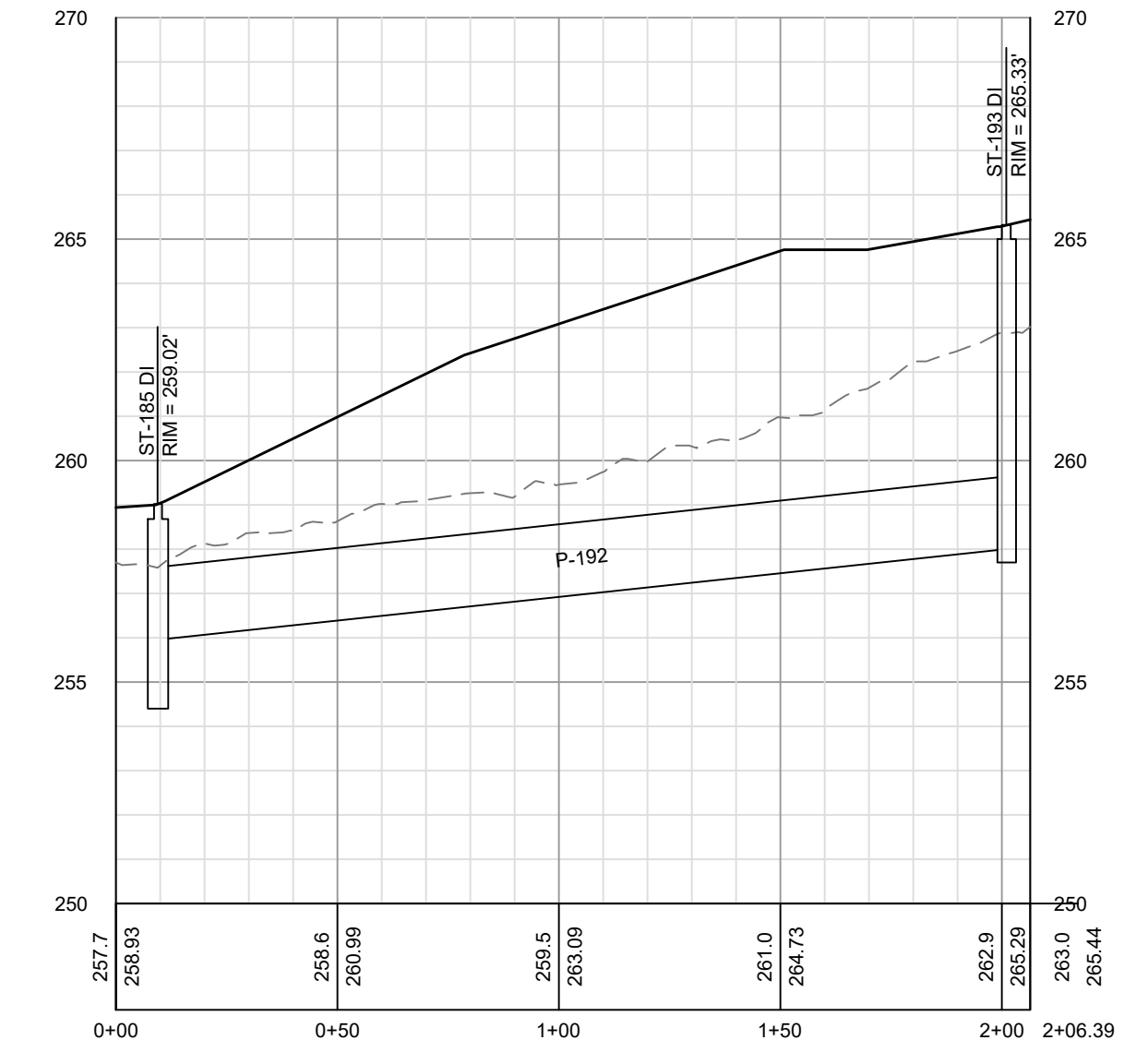
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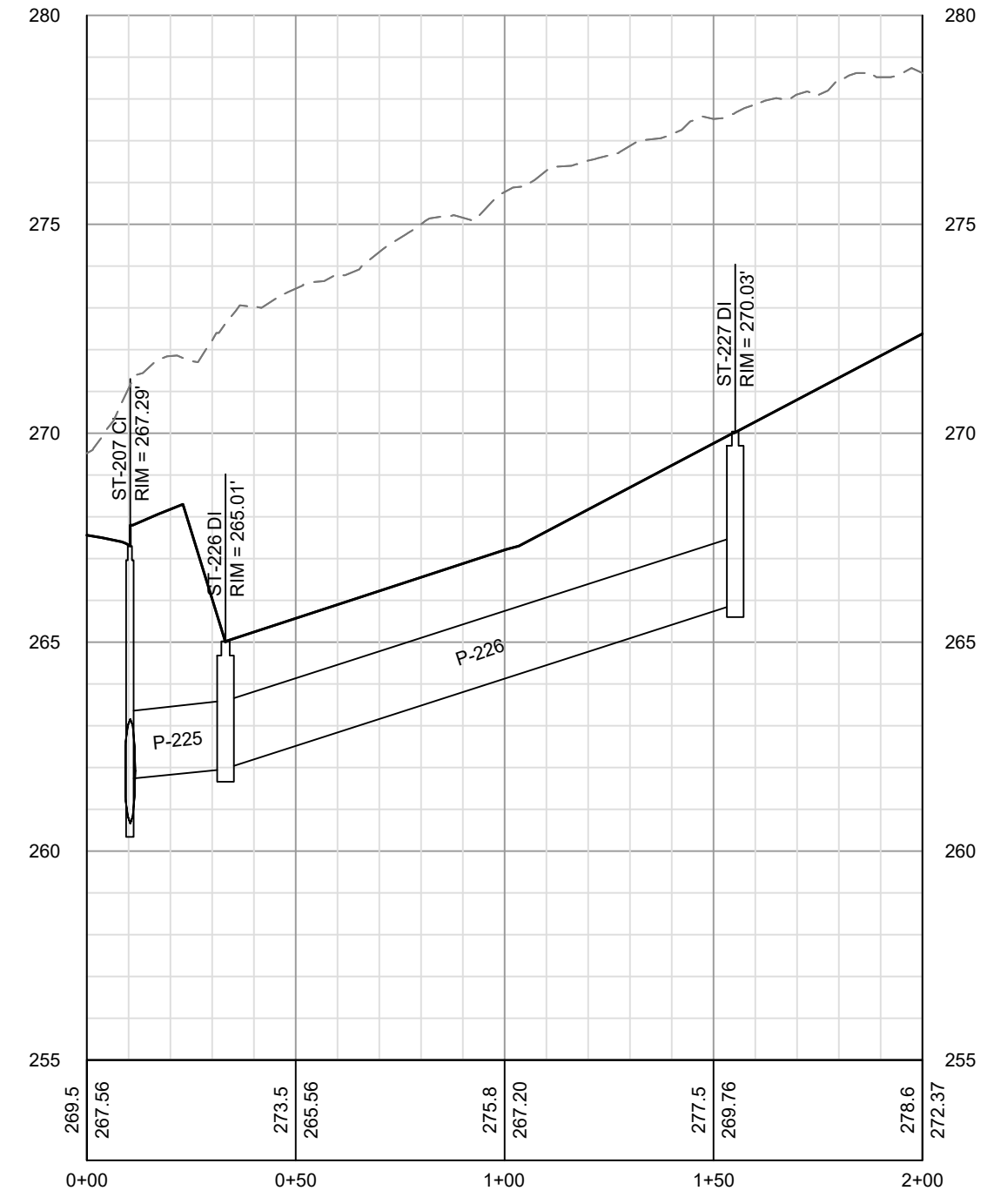
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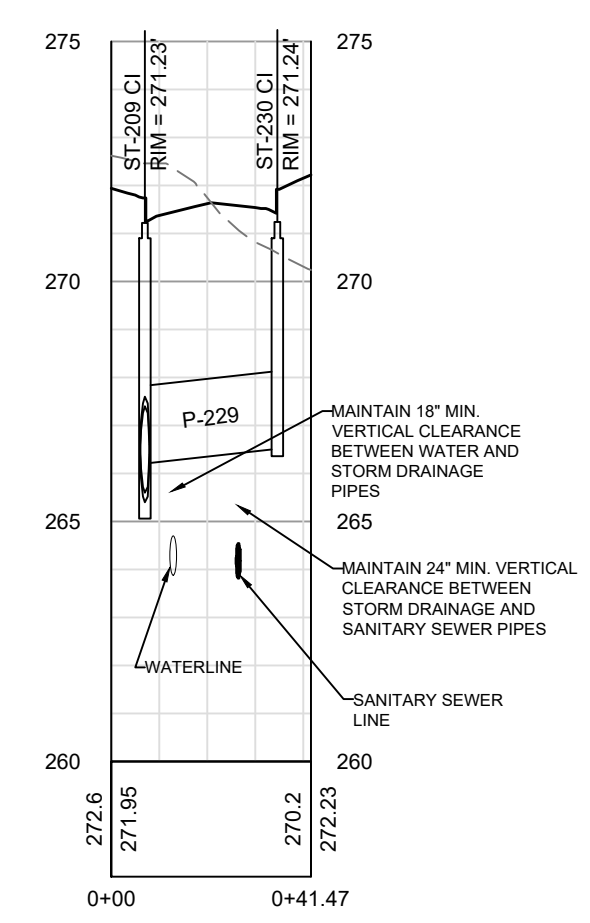
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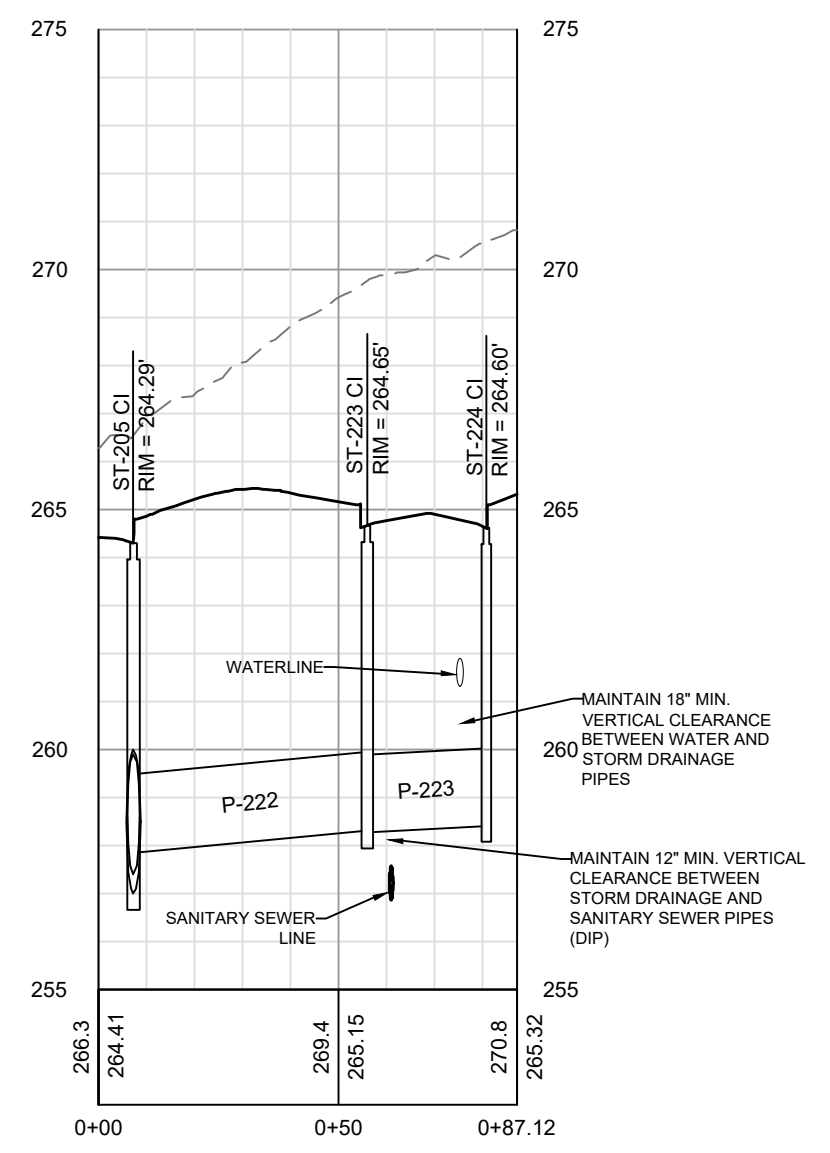
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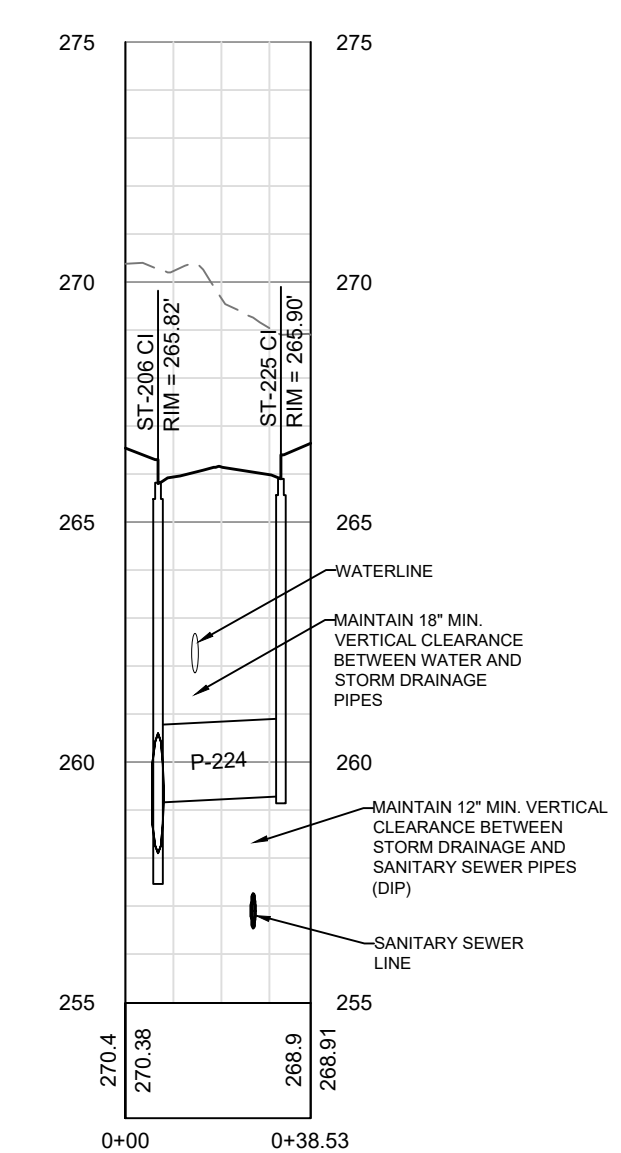
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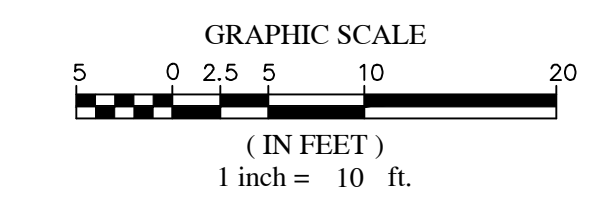
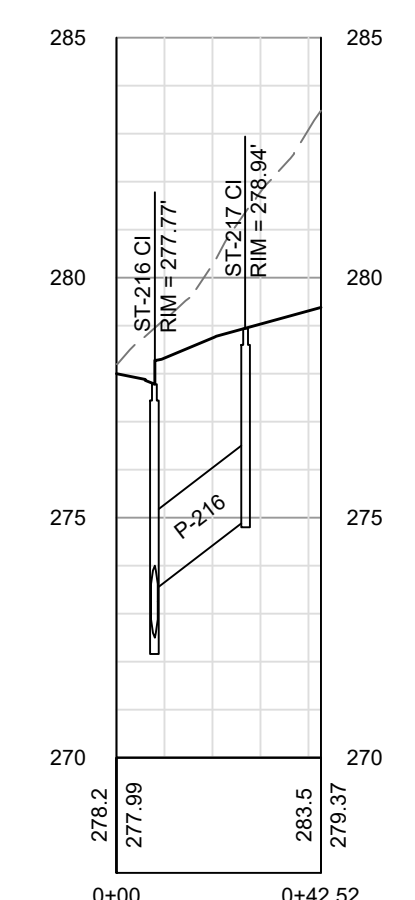
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PROFILE**



**ST-206 & ST-225
PROFILE**



**ST-216 & ST-217
PROFILE**



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AM/ALXKMGOT@SUMMITDE.NET
PROJECT MANAGER
DAS/DON.SCHER@SUMMITDE.NET
DRAWN BY
JA/JIMMY.ASHLEY@SUMMITDE.NET
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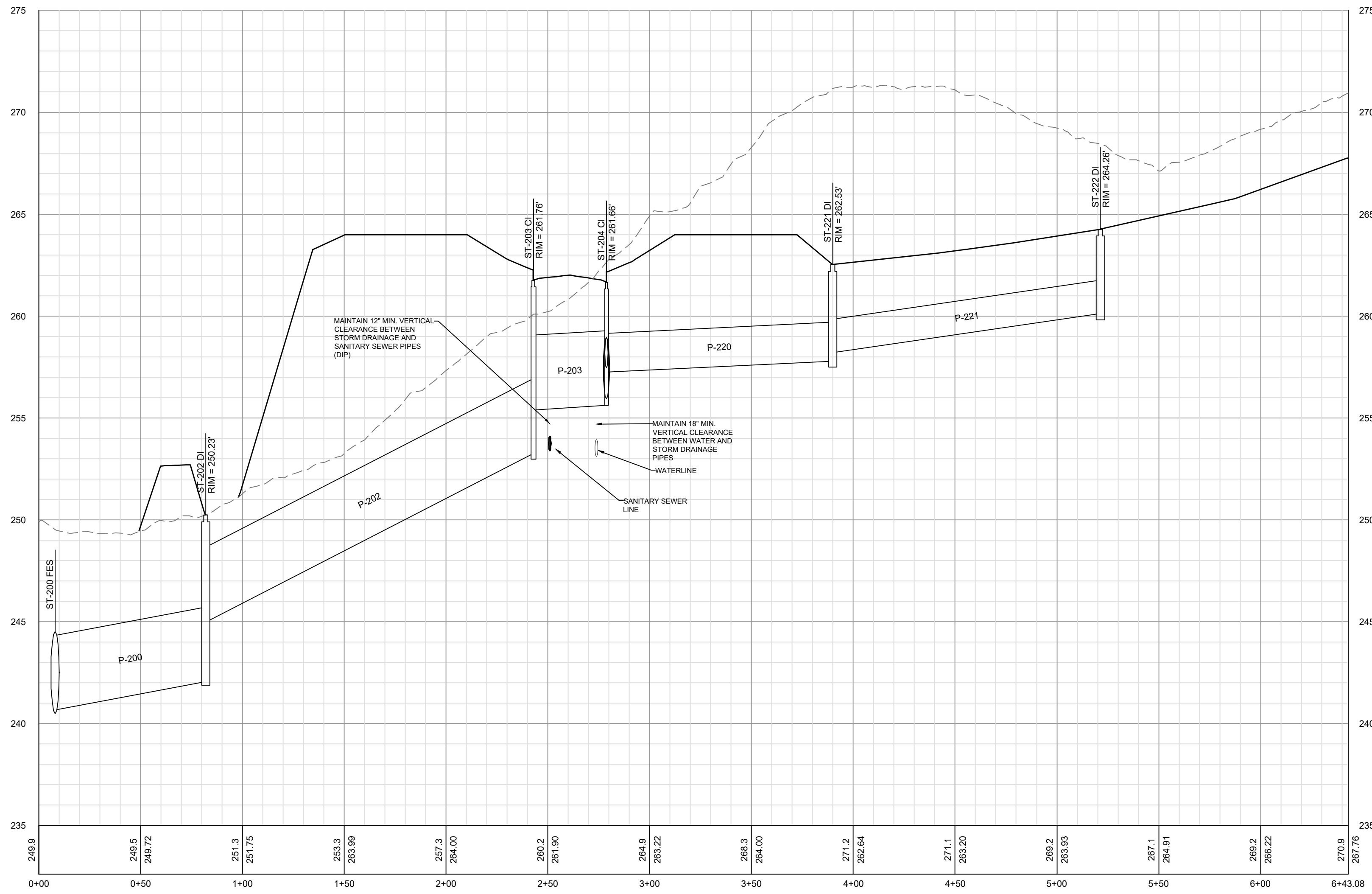


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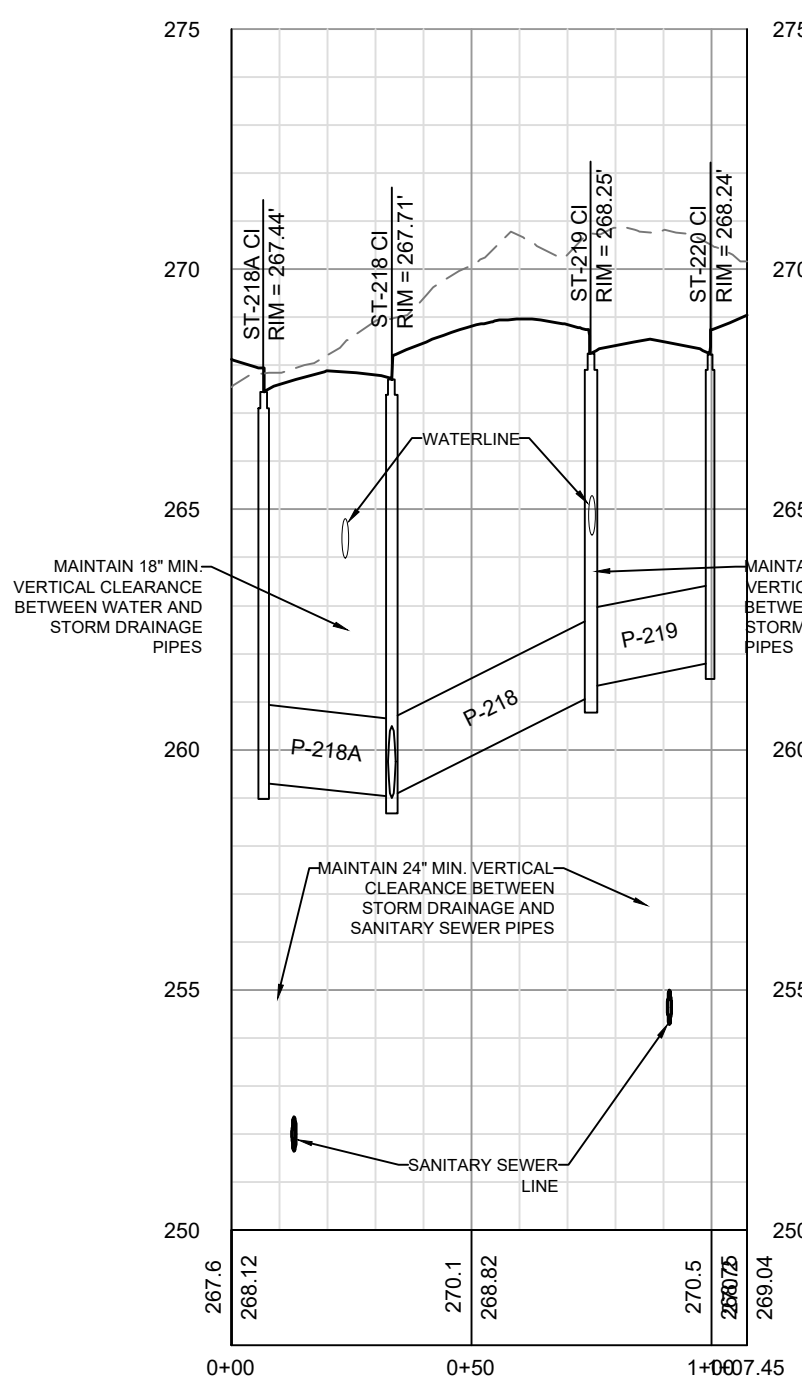
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
STORM PROFILES

PROJECT NO.
19-0103
DRAWING NAME:
19-0103_p_storm.dwg
SHEET NO.
P-4

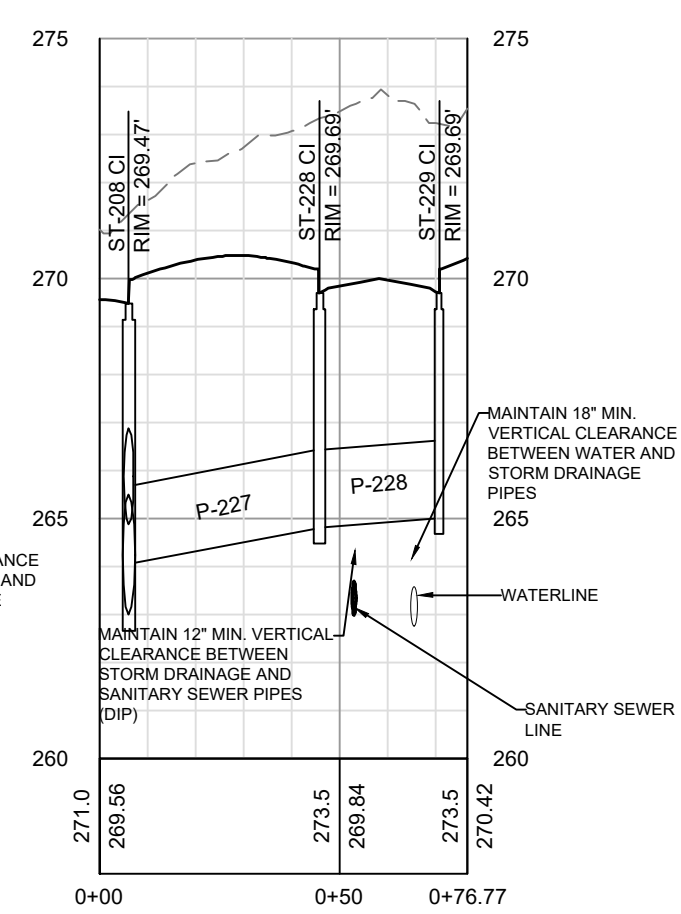
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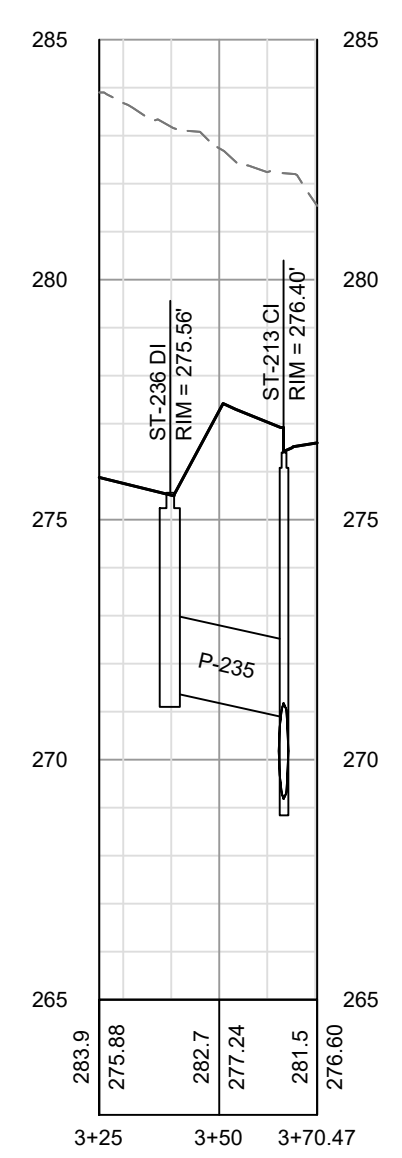
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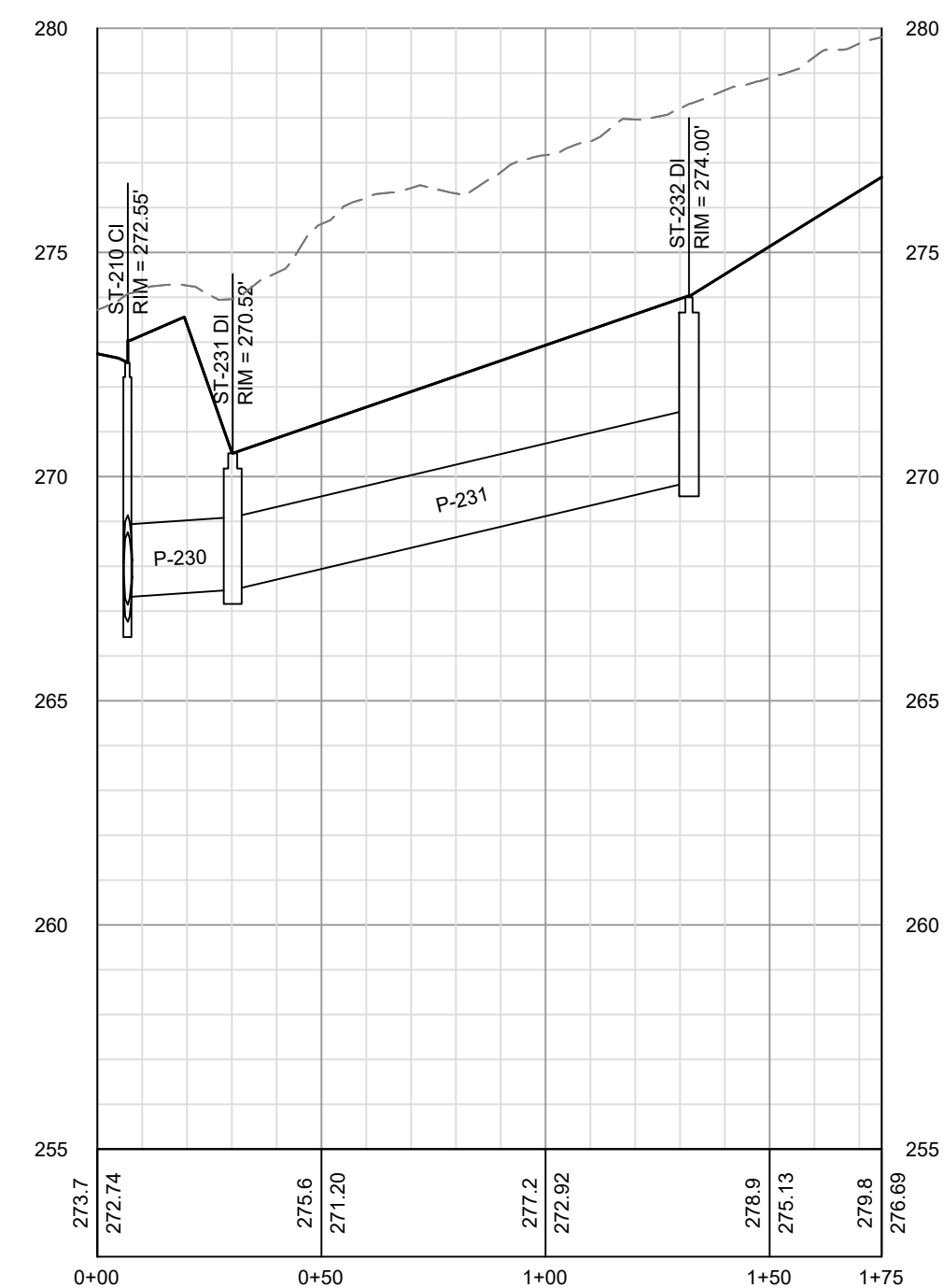
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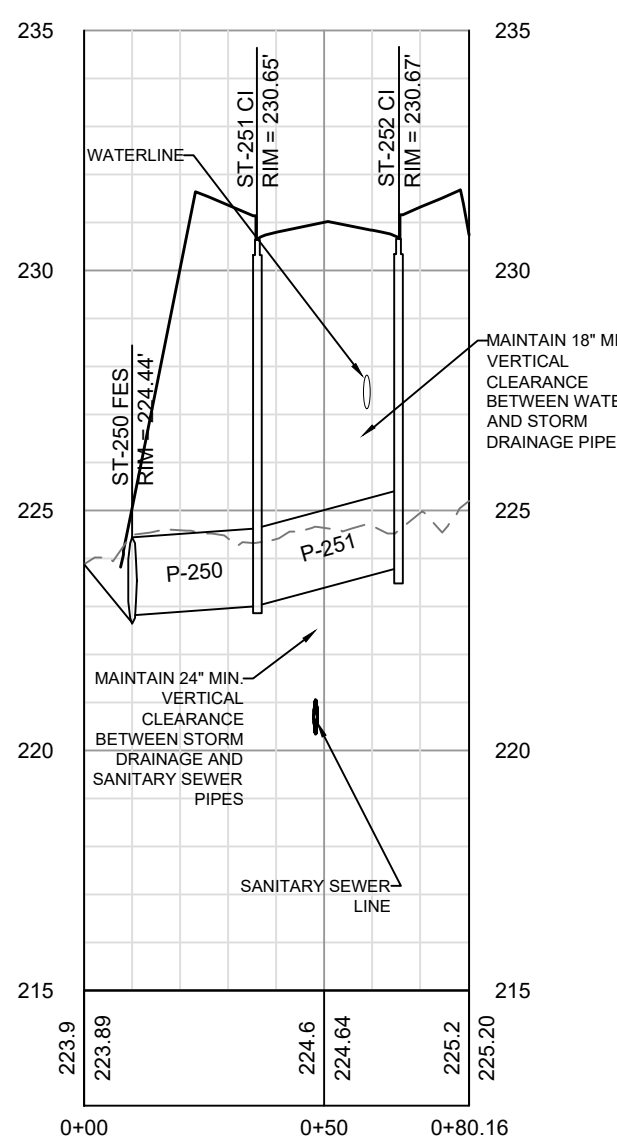
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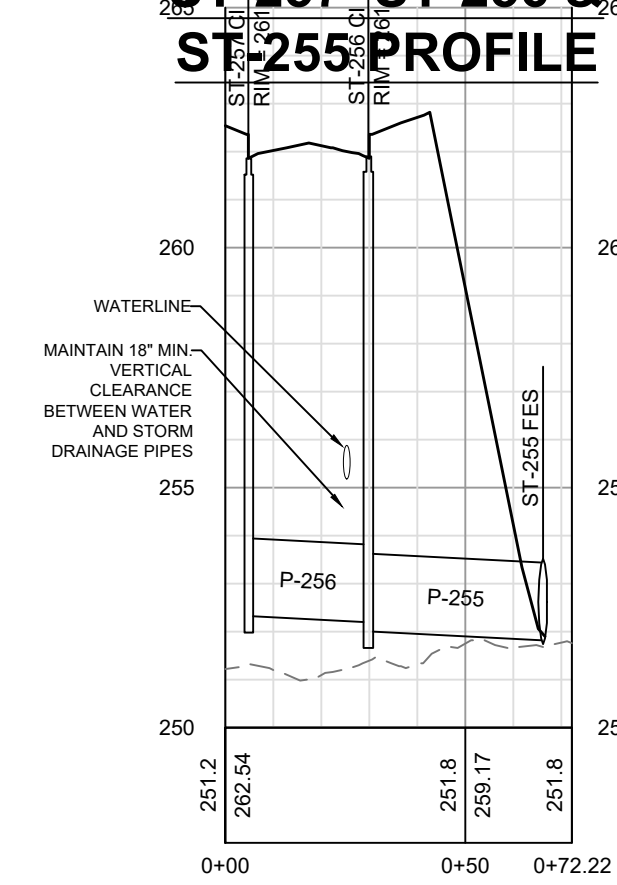
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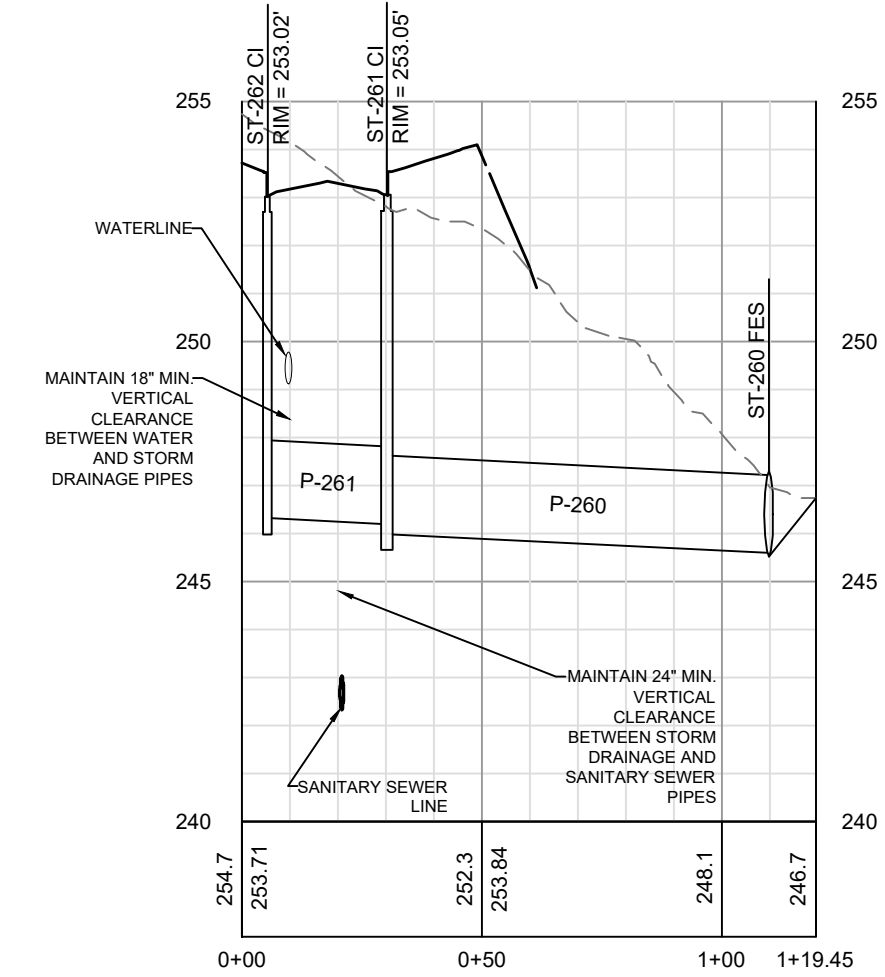
ST-250 ST-251 & ST-252 PROFILE



ST-257 ST-256 & ST-255 PROFILE



ST-262 ST-261 & ST-260 PROFILE



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CADENCE MEADOWS
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 ZEBULON, NC

STORM PROFILES

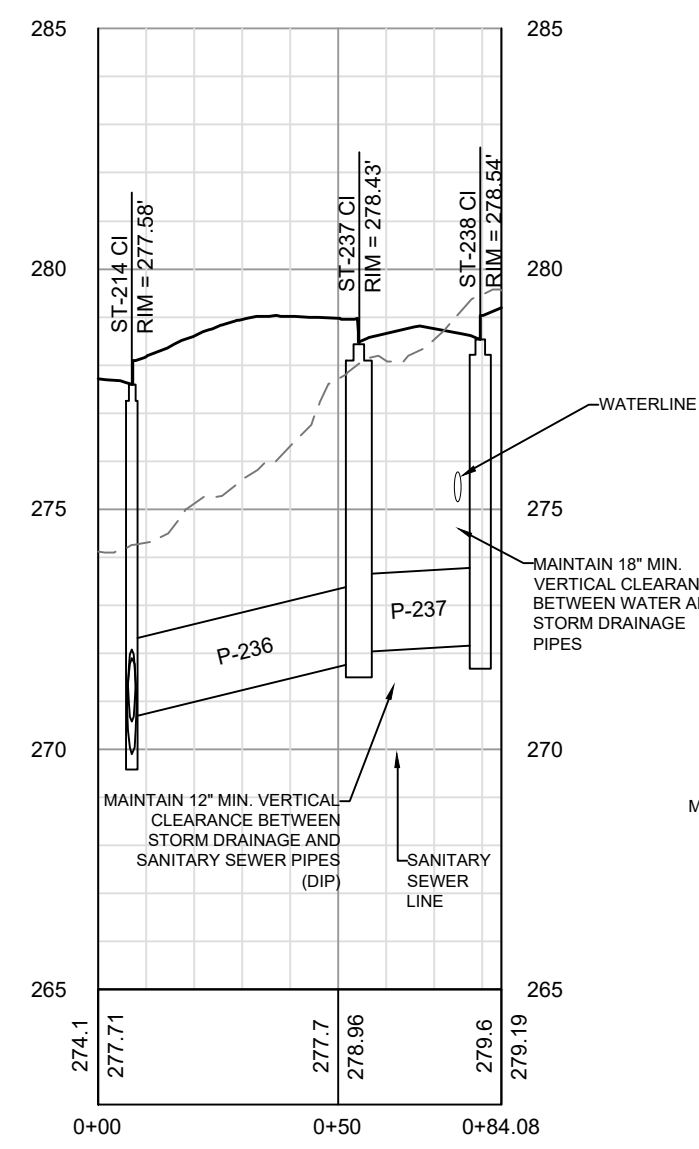
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 DRAWING NAME: 19-0103_p_storm.dwg
 SHEET NO.: P-5

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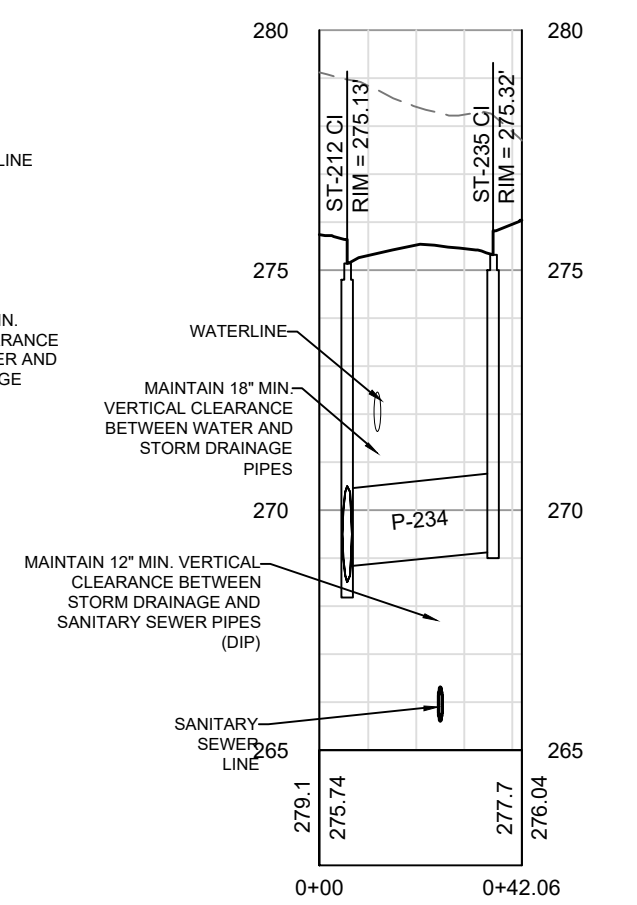
GRAPHIC SCALE
 0 2.5 5 10 20
 (IN FEET)
 1 inch = 10 ft.

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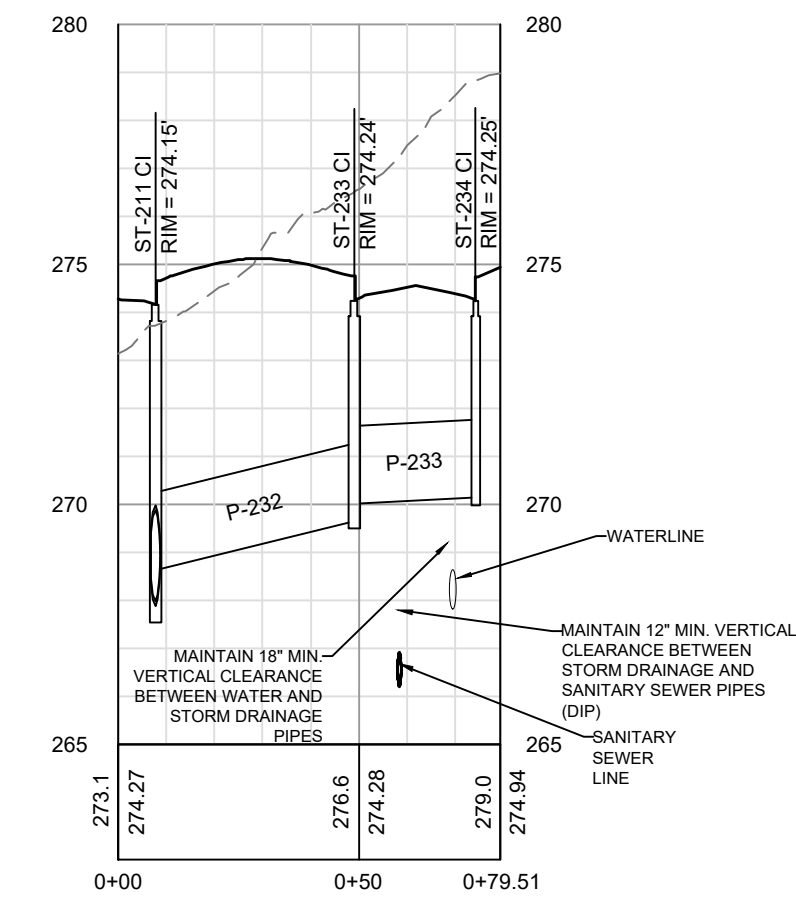
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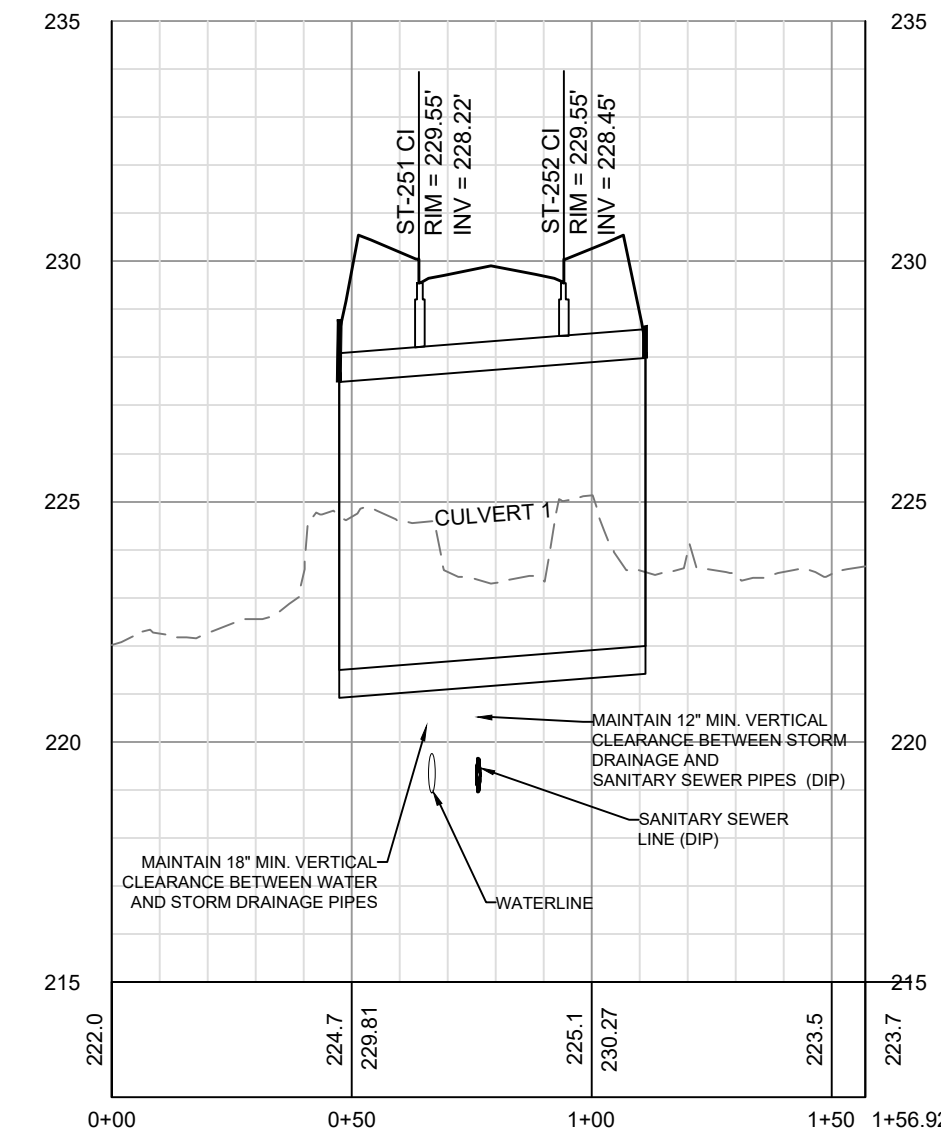
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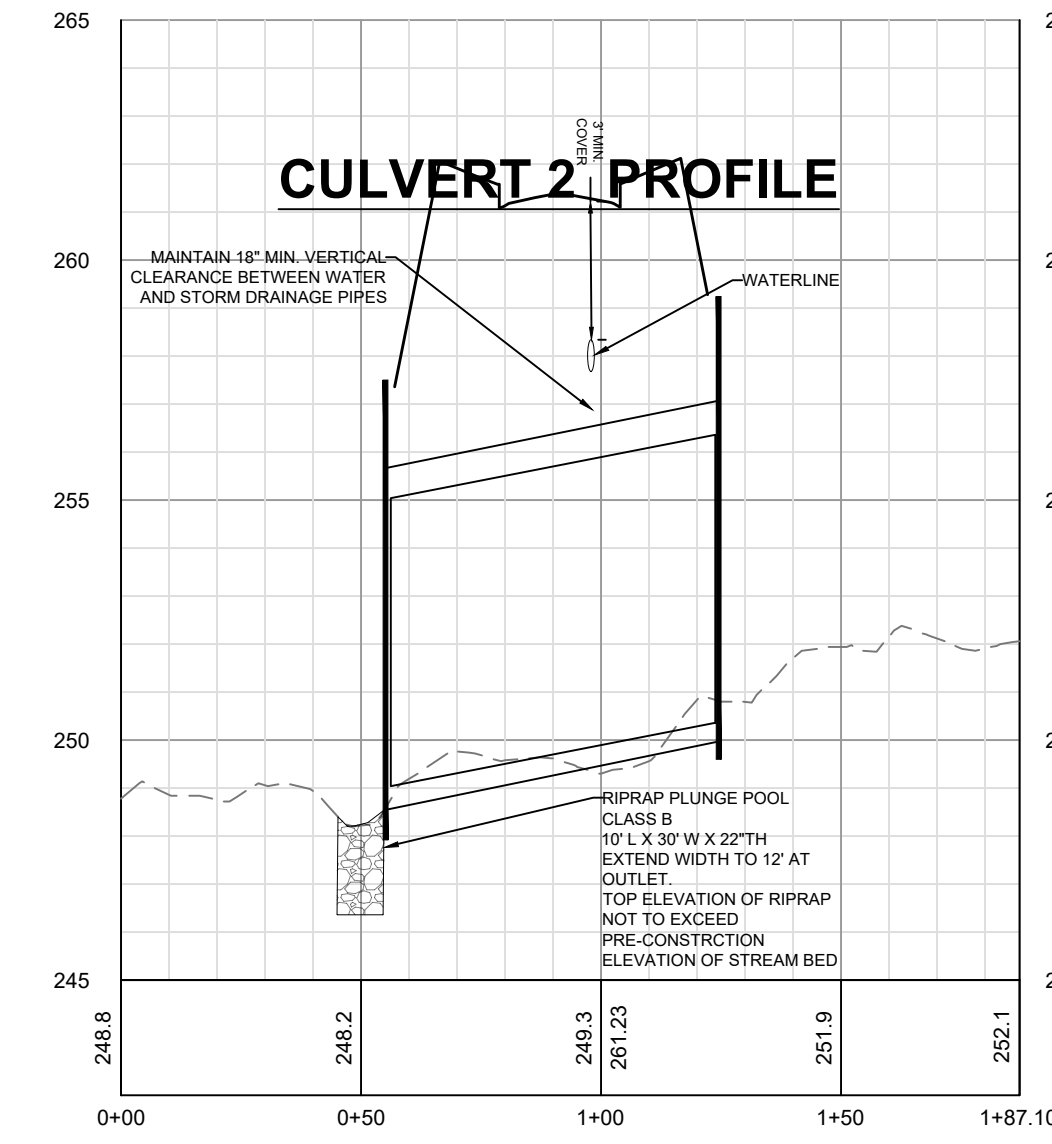
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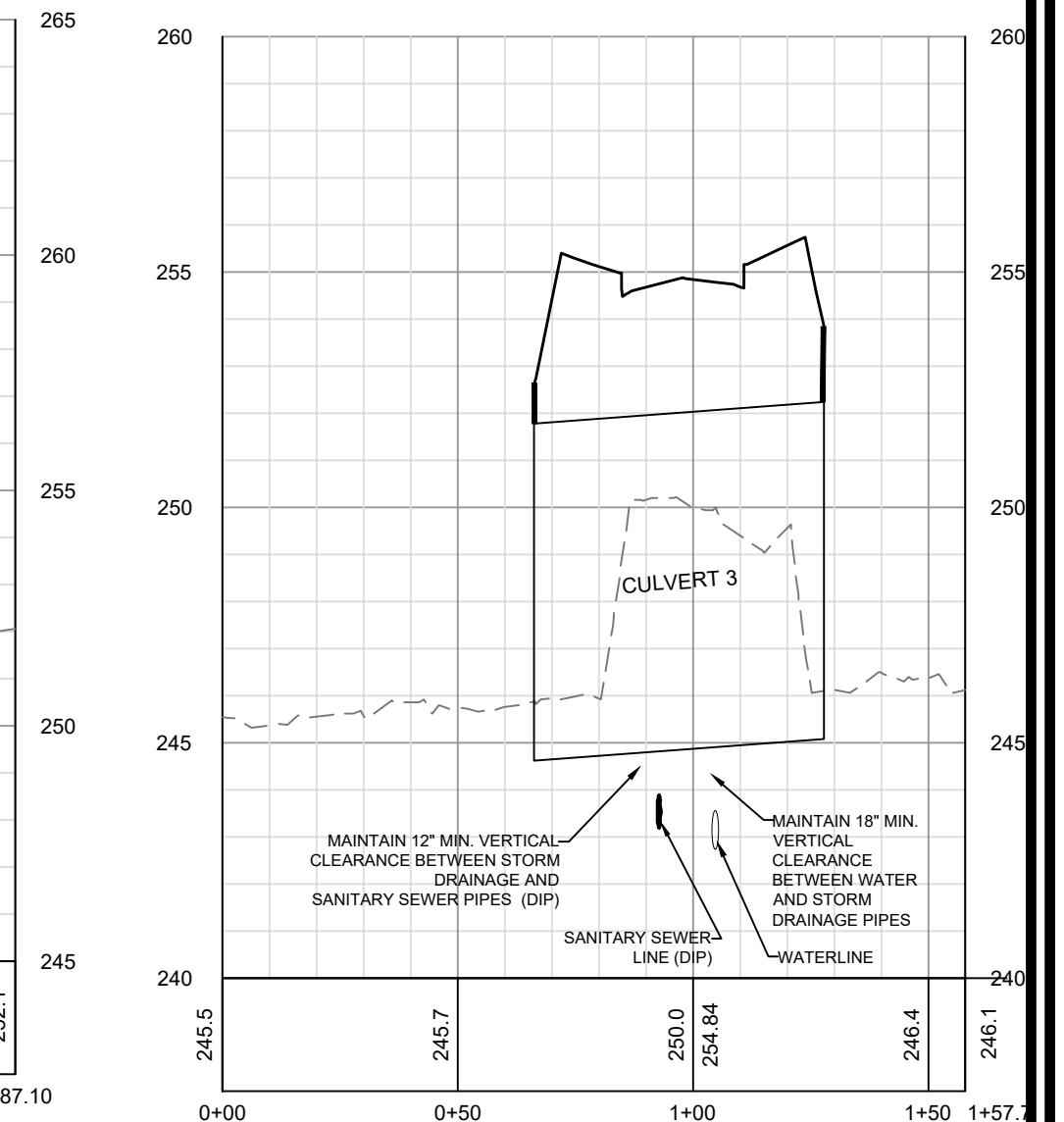
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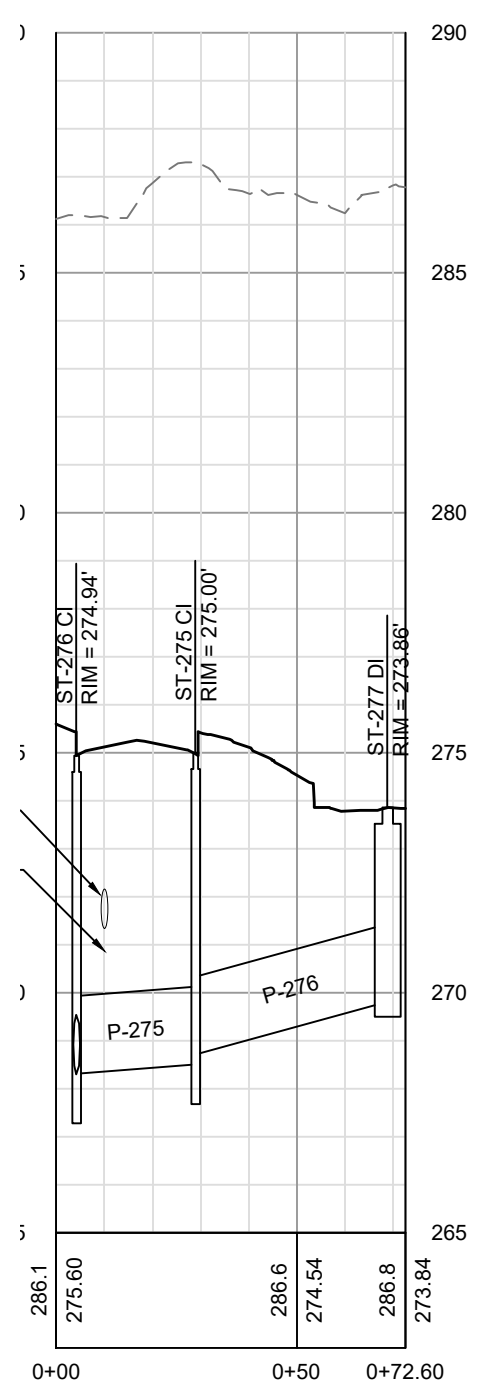
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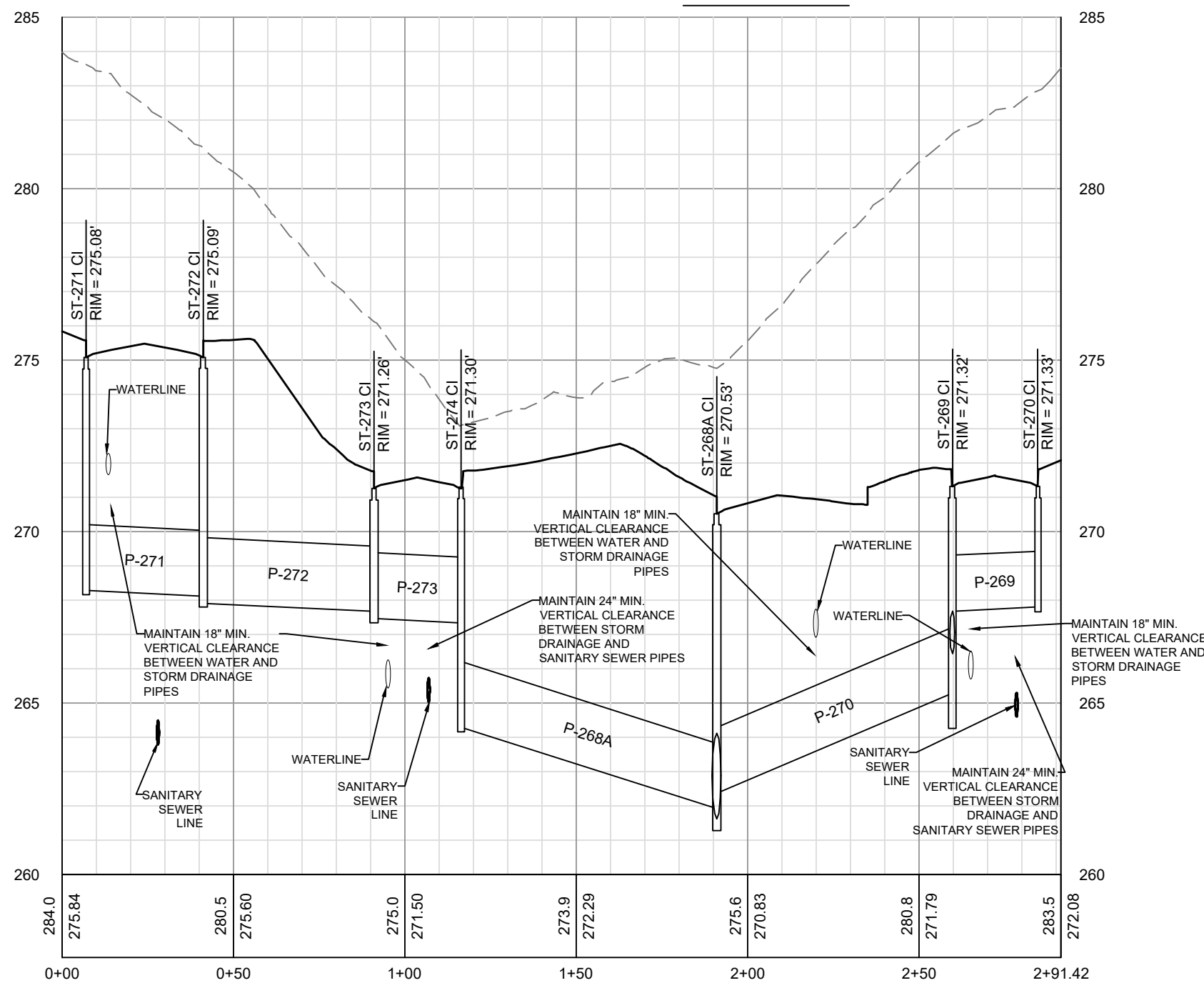
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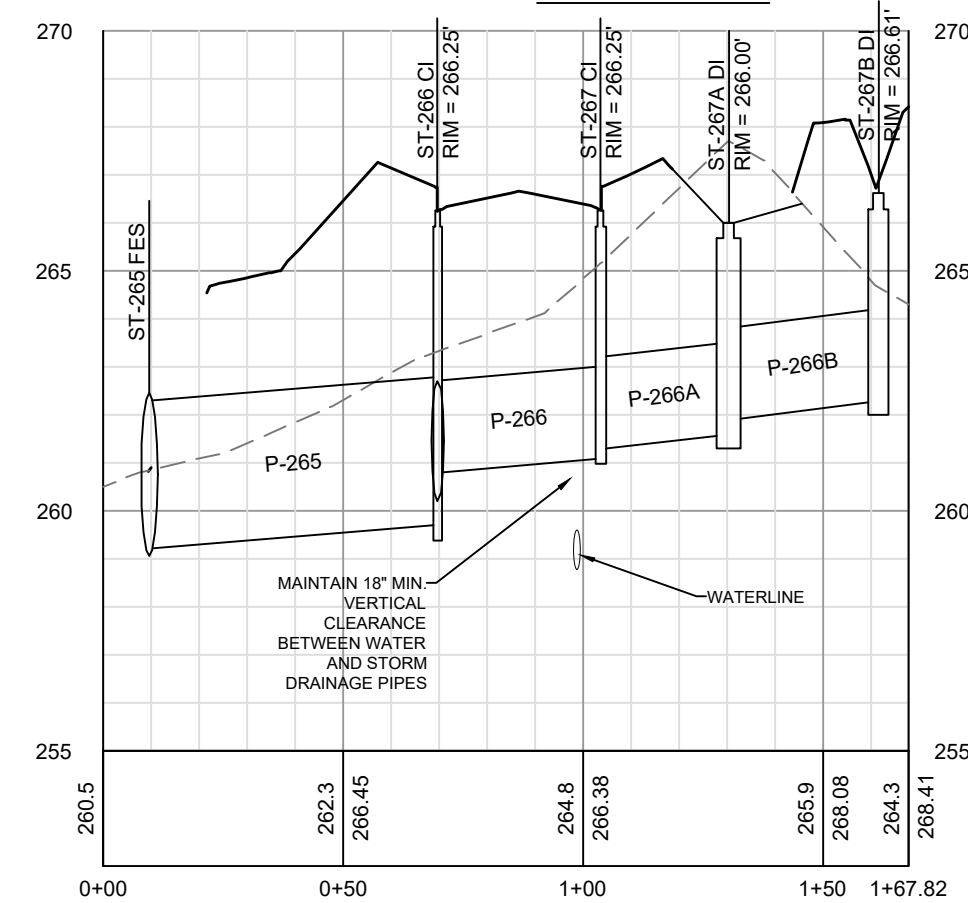
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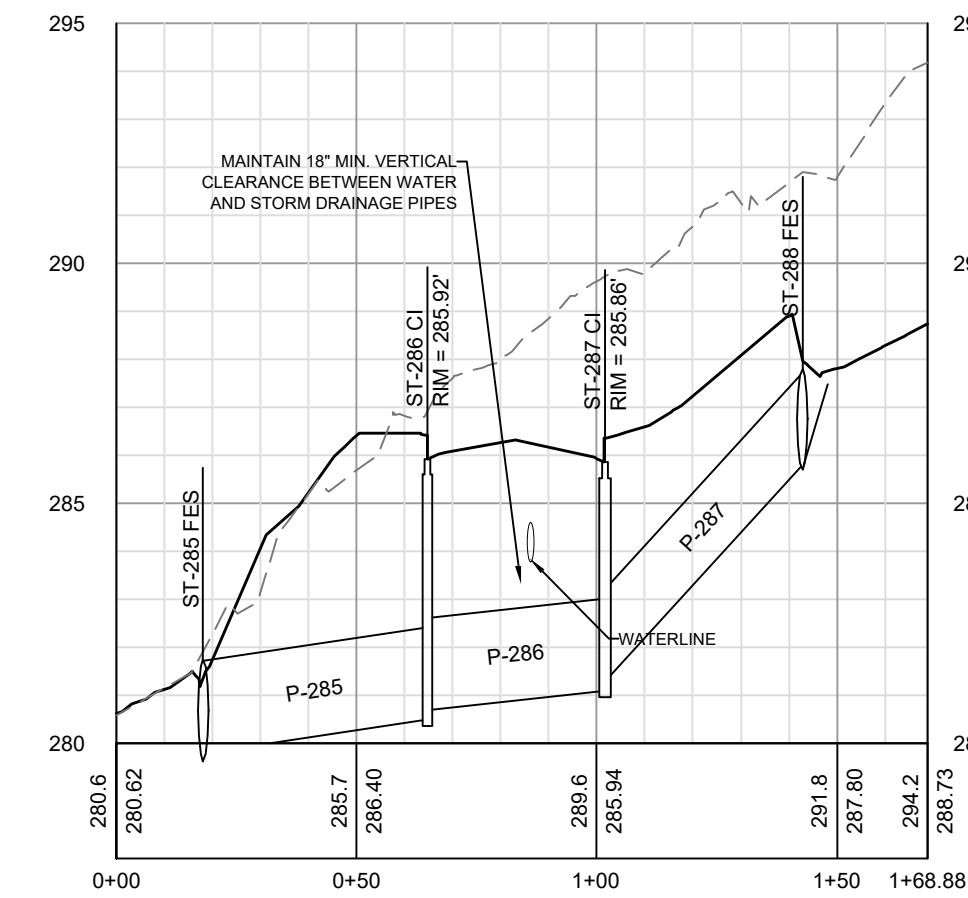
ST-268 ST-269 ST-270 ST-271 ST-272 ST-273 & ST-274 PROFILE



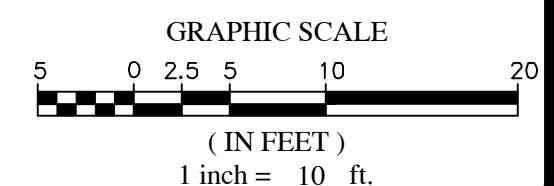
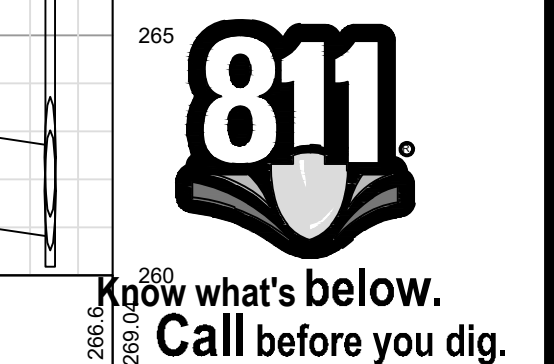
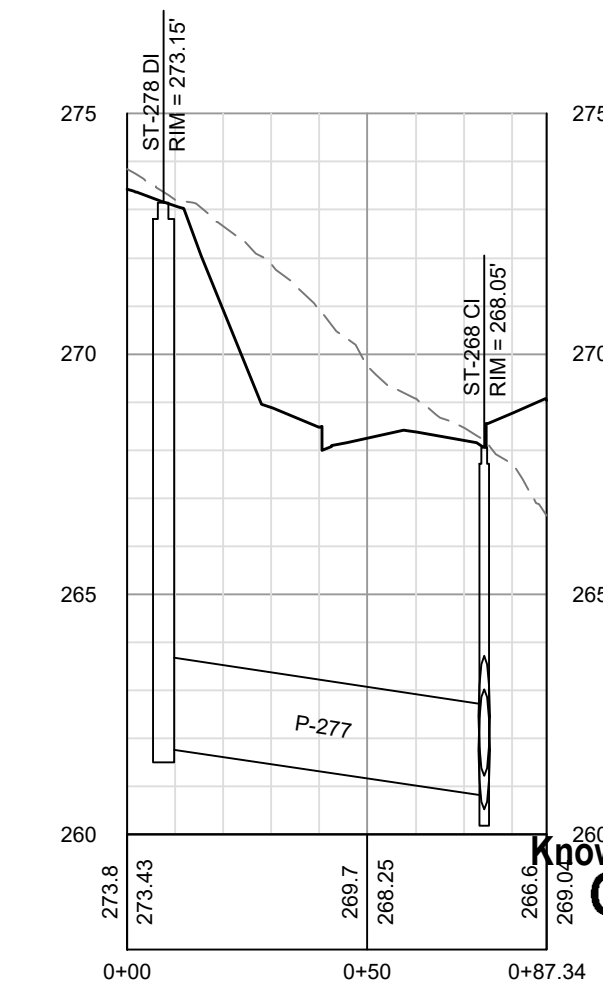
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ST-285 & ST-286 PROFILE



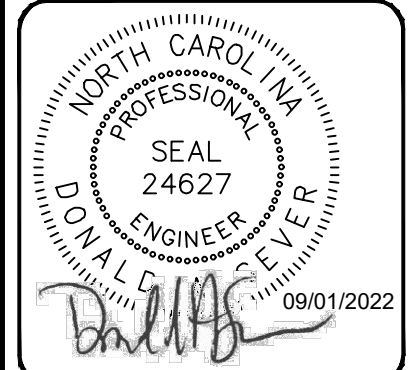
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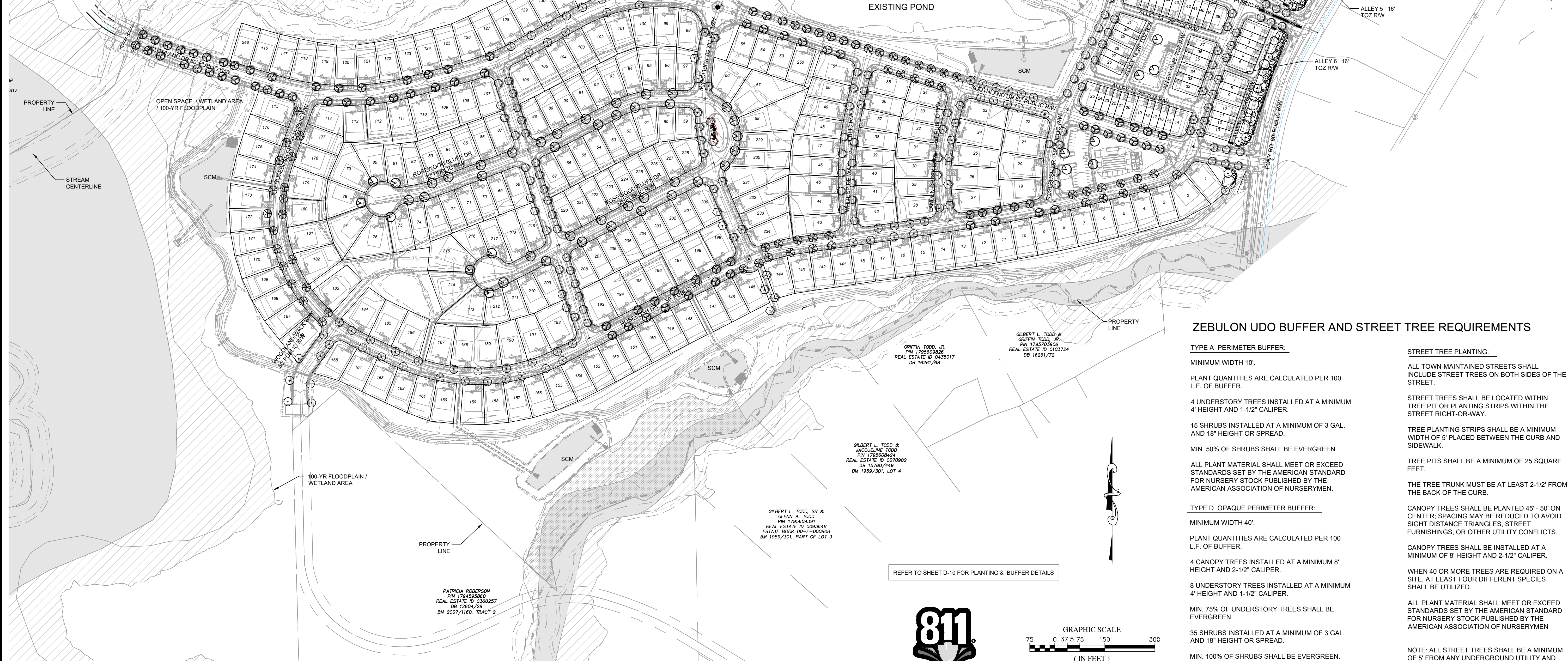


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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
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 ZEBULON, NC
STORM PROFILES

PROJECT NO.
19-0103
 DRAWING NAME:
 19-0103_p_storm.dwg
 SHEET NO.
P-6

| KEY | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | HT. | QTY. | EVERGREEN | COMMENTS |
|--|---------------------------------------|----------------------------|------------|----------|--------|--------------|-----------|--------------------------------------|
| AF | ACER FREEMANI/AUTUMN BLAZE | AUTUMN BLAZE MAPLE | 2-1/2" CAL | B&B | 8' MN. | 88 | | FULL |
| IE | ILEX 'EMILY BRUNER' | EMILY BRUNER HOLLY | B&B | 6' MN. | 12 | | X | FULL TO GROUND, USED AT ALLEYS/WAYS. |
| NS | WILDFIRE BLACK GUM | NYSSA SYLVATICA 'WILDFIRE' | 2-1/2" CAL | B&B | 8' MN. | 87 | | FULL |
| QP | QUERCUS PALUSTRIS | PN OAK | 2-1/2" CAL | B&B | 8' MN. | 75 | | FULL |
| TT | TILIA 'TOMENTOSA' STERLING SILVER | STERLING SILVER LINDEN | 2-1/2" CAL | B&B | 8' MN. | 79 | | FULL |
| UP | ULMUS PARVIFOLIA ALLEE | ALLEE CHINESE ELM | 2-1/2" CAL | B&B | 8' MN. | 76 | | FULL |
| ZV | ZELKOVA SERRATA VILLAGE GREEN | VILLAGE GREEN ZELKOVA | 2-1/2" CAL | B&B | 8' MN. | 98 | | FULL |
| | | | | | | TOTAL | | 514 |
| ISLAND PLANTINGS - SHRUBS & PERENNIALS | | | | | | | | |
| AG | ABELA GRANDIFLORA | GLOSSY ABELIA | 15" SP | #3 CONT. | 18" HT | 30 | X | FULL |
| IV | ILEX VOMITORIA NANA | DWARF YALPON HOLLY | 15" SP | #3 CONT. | 18" HT | 35 | X | FULL |
| LC | LOROPETALUM CHINENSIS 'RUBY' | RUBY LOROPETALUM | 18" SP | #3 CONT. | 24" HT | 45 | X | FULL |
| MC | MUHLENBERGIA CAPILLARIS | PINK MUHLY GRASS | 12" SP | #1 CONT. | 12" HT | 69 | | ACTIVE GROWTH; FULL |
| MD | MYRICA CERIFERA 'DON'S DWARF' | DON'S DWARF WAX MYRTLE | 15" SP | #3 CONT. | 18" HT | 30 | X | FULL |
| | | | | | | TOTAL | | 209 |
| PLANT LIST - BUFFER A PERIMETER BUFFER (SIDE & REAR YARD) | | | | | | | | |
| KEY | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | HT. | QTY. | EVERGREEN | COMMENTS |
| UNDERSTORY TREES | | | | | | | | |
| CAC | CARPINUS CAROLINIANA | AMERICAN HORNBEAM | 1-1/2" CAL | B&B | 5' MN. | 28 | | FULL |
| CR | CERCIS CANADENSIS | EASTERN REDBUD | 1-1/2" CAL | B&B | 5' MN. | 28 | | FULL |
| CK | CORNUS KOUSA | KOUSA DOGWOOD | 1-1/2" CAL | B&B | 5' MN. | 28 | | FULL |
| IO | ILEX OPACA | AMERICAN HOLLY | 1-1/2" CAL | B&B | 5' MN. | 28 | X | FULL TO GROUND |
| | | | | | | TOTAL | | 112 |
| SHRUBS | | | | | | | | |
| AG | ABELA GRANDIFLORA | GLOSSY ABELIA | 15" SP | #3 CONT. | 18" HT | 70 | X | FULL |
| IV | ILEX VOMITORIA NANA | DWARF YALPON HOLLY | 15" SP | #3 CONT. | 18" HT | 154 | X | FULL |
| LC | LOROPETALUM CHINENSIS 'RUBY' | RUBY LOROPETALUM | 18" SP | #3 CONT. | 24" HT | 168 | X | FULL |
| MD | MYRICA CERIFERA 'DON'S DWARF' | DON'S DWARF WAX MYRTLE | 15" SP | #3 CONT. | 18" HT | 42 | X | FULL |
| | | | | | | TOTAL | | 434 |
| PLANT LIST - BUFFER D OPAQUE PERIMETER BUFFER (FRONT YARD) | | | | | | | | |
| KEY | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | HT. | QTY. | EVERGREEN | COMMENTS |
| DECIDUOUS CANOPY TREES | | | | | | | | |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE | 2-1/2" CAL | B&B | 8' MN. | 12 | | FULL |
| FG | FAGUS GRANDIFOLIA | AMERICAN BEECH | 2-1/2" CAL | B&B | 8' MN. | 11 | | FULL |
| LS | LIQUIDAMBAR STYRACIFLUA 'ROTUNDOLOBA' | FRUITLESS SWEETGUM | 2-1/2" CAL | B&B | 8' MN. | 8 | | FULL |
| QP | QUERCUS PALUSTRIS | PN OAK | 2-1/2" CAL | B&B | 8' MN. | 12 | | FULL |
| | | | | | | TOTAL | | 43 |
| DECIDUOUS UNDERSTORY TREES | | | | | | | | |
| CR | CERCIS CANADENSIS | EASTERN REDBUD | 1-1/2" CAL | B&B | 5' MN. | 4 | | FULL |
| CK | CORNUS KOUSA | KOUSA DOGWOOD | 1-1/2" CAL | B&B | 5' MN. | 10 | | FULL |
| | | | | | | TOTAL | | 14 |
| EVERGREEN UNDERSTORY TREES | | | | | | | | |
| IO | ILEX OPACA | AMERICAN HOLLY | 1-1/2" CAL | B&B | 5' MN. | 33 | X | FULL TO GROUND |
| JV | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR | 1-1/2" CAL | B&B | 5' MN. | 8 | X | FULL |
| PC | PRUNUS CAROLINIANA | CAROLINA CHERRY LAUREL | 1-1/2" CAL | B&B | 5' MN. | 27 | X | FULL |
| | | | | | | TOTAL | | 68 |
| SHRUBS | | | | | | | | |
| AG | ABELA GRANDIFLORA | GLOSSY ABELIA | 15" SP | #3 CONT. | 18" HT | 88 | X | FULL |
| IV | ILEX VOMITORIA NANA | DWARF YALPON HOLLY | 15" SP | #3 CONT. | 18" HT | 100 | X | FULL |
| LC | LOROPETALUM CHINENSIS 'RUBY' | RUBY LOROPETALUM | 18" SP | #3 CONT. | 24" HT | 101 | X | FULL |
| MD | MYRICA CERIFERA 'DON'S DWARF' | DON'S DWARF WAX MYRTLE | 15" SP | #3 CONT. | 18" HT | 91 | X | FULL |
| | | | | | | TOTAL | | 380 |



ZEBULON UDO BUFFER AND STREET TREE REQUIREMENTS

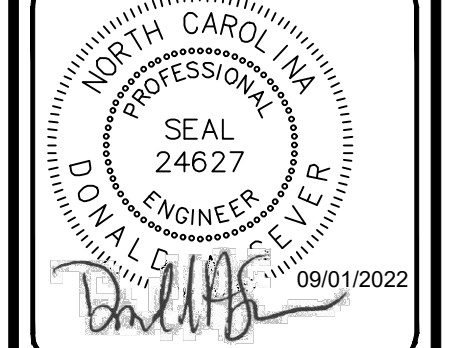
- TYPE A PERIMETER BUFFER:**
- MINIMUM WIDTH 10'.
 - PLANT QUANTITIES ARE CALCULATED PER 100 L.F. OF BUFFER.
 - 4 UNDERSTORY TREES INSTALLED AT A MINIMUM 4' HEIGHT AND 1-1/2" CALIPER.
 - 15 SHRUBS INSTALLED AT A MINIMUM OF 3 GAL. AND 18" HEIGHT OR SPREAD.
 - MIN. 50% OF SHRUBS SHALL BE EVERGREEN.
 - ALL PLANT MATERIAL SHALL MEET OR EXCEED STANDARDS SET BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- TYPE D OPAQUE PERIMETER BUFFER:**
- MINIMUM WIDTH 40'.
 - PLANT QUANTITIES ARE CALCULATED PER 100 L.F. OF BUFFER.
 - 4 CANOPY TREES INSTALLED AT A MINIMUM 8' HEIGHT AND 2-1/2" CALIPER.
 - 8 UNDERSTORY TREES INSTALLED AT A MINIMUM 4' HEIGHT AND 1-1/2" CALIPER.
 - MIN. 75% OF UNDERSTORY TREES SHALL BE EVERGREEN.
 - 35 SHRUBS INSTALLED AT A MINIMUM OF 3 GAL. AND 18" HEIGHT OR SPREAD.
 - MIN. 100% OF SHRUBS SHALL BE EVERGREEN.
 - ALL PLANT MATERIAL SHALL MEET OR EXCEED STANDARDS SET BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- STREET TREE PLANTING:**
- ALL TOWN-MAINTAINED STREETS SHALL INCLUDE STREET TREES ON BOTH SIDES OF THE STREET.
 - STREET TREES SHALL BE LOCATED WITHIN TREE PIT OR PLANTING STRIPS WITHIN THE STREET RIGHT-OF-WAY.
 - TREE PLANTING STRIPS SHALL BE A MINIMUM WIDTH OF 5' PLACED BETWEEN THE CURB AND SIDEWALK.
 - TREE PITS SHALL BE A MINIMUM OF 25 SQUARE FEET.
 - THE TREE TRUNK MUST BE AT LEAST 2-1/2' FROM THE BACK OF THE CURB.
 - CANOPY TREES SHALL BE PLANTED 45' - 60' ON CENTER; SPACING MAY BE REDUCED TO AVOID SIGHT DISTANCE TRIANGLES, STREET FURNISHINGS, OR OTHER UTILITY CONFLICTS.
 - CANOPY TREES SHALL BE INSTALLED AT A MINIMUM OF 8' HEIGHT AND 2-1/2" CALIPER.
 - WHEN 40 OR MORE TREES ARE REQUIRED ON A SITE, AT LEAST FOUR DIFFERENT SPECIES SHALL BE UTILIZED.
 - ALL PLANT MATERIAL SHALL MEET OR EXCEED STANDARDS SET BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- NOTE: ALL STREET TREES SHALL BE A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY AND 2-1/2' FROM BACK OF CURB.**

REFER TO SHEET D-10 FOR PLANTING & BUFFER DETAILS



| NO. | DATE | REVISIONS |
|-----|------------|-----------|
| 7 | 09/27/2022 | DAS |
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| 4 | 04/06/2022 | DAS |
| 3 | 03/24/2022 | DAS |
| 2 | 02/25/2022 | DAS |
| 1 | 01/07/2022 | DAS |

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 SUMMIT DESIGN AND ENGINEERING SERVICES
 PROJECT MANAGER: AMALEXMAN@SUMMITDE.NET
 PROJECT ENGINEER: DAS@SUMMITDE.NET
 DRAWN BY: JALUMBY@SUMMITDE.NET
 FIRST ISSUE DATE: 11/01/2021

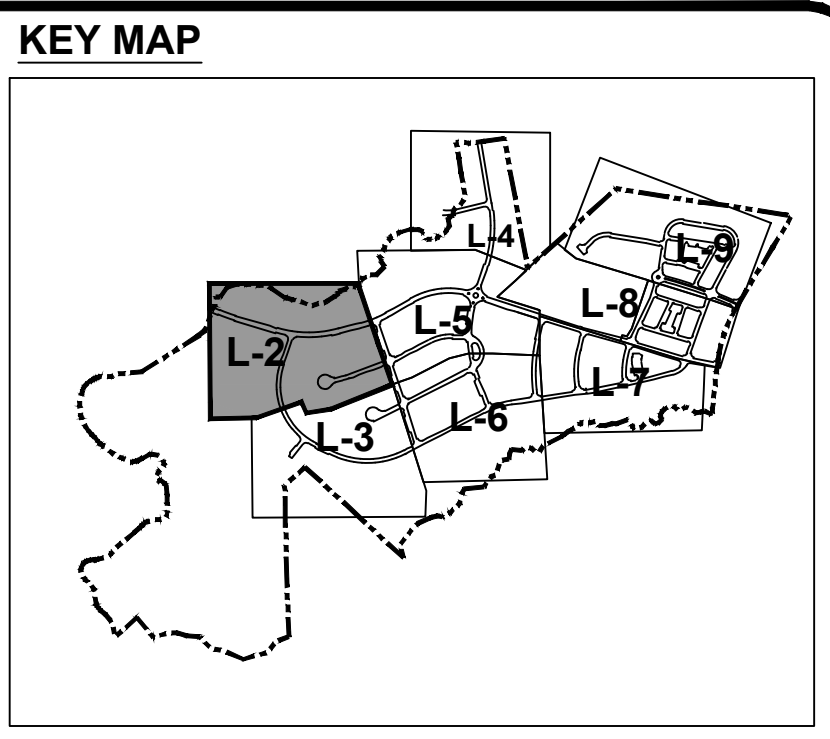
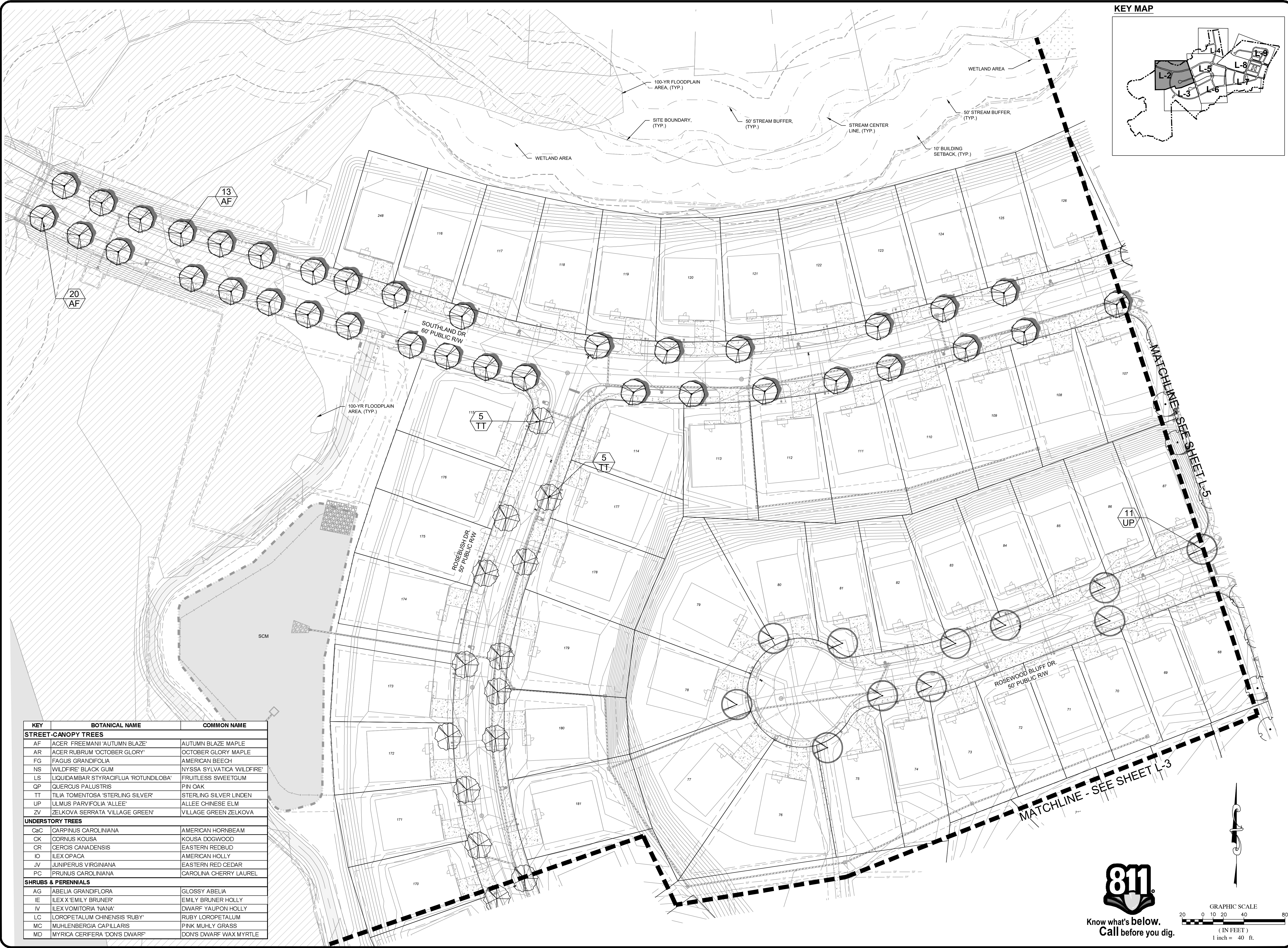


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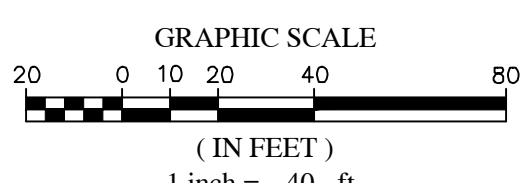
CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
 915 PONY ROAD ZEBULON, NC

OVERALL LANDSCAPE PLAN

PROJECT NO. 19-0103
 DRAWING NAME: 19-0103_ls.dwg
 SHEET NO. L-1



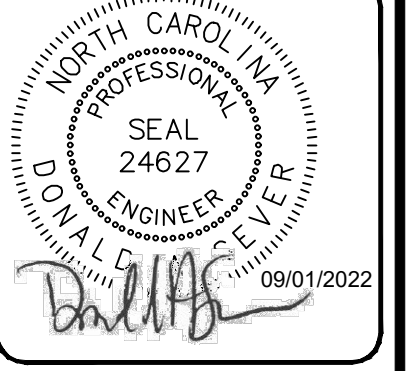
| KEY | BOTANICAL NAME | COMMON NAME |
|--------------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE |
| FG | FAGUS GRANDIFOLIA | AMERICAN BEECH |
| NS | WILDFIRE BLACK GUM | NYSSA SYLVATICA 'WILDFIRE' |
| LS | LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA' | FRUITLESS SWEETGUM |
| QP | QUERCUS PALUSTRIS | PIN OAK |
| TT | TILIA TOMENTOSA 'STERLING SILVER' | STERLING SILVER LINDEN |
| UP | ULMUS PARVIFOLIA 'ALLEE' | ALLEE CHINESE ELM |
| ZV | ZELKOVA SERRATA 'VILLAGE GREEN' | VILLAGE GREEN ZELKOVA |
| UNDERSTORY TREES | | |
| CaC | CARPINUS CAROLINIANA | AMERICAN HORNBEAM |
| CK | CORNUS KOUSA | KOUSA DOGWOOD |
| CR | CERCIS CANADENSIS | EASTERN REDBUD |
| IO | ILEX OPACA | AMERICAN HOLLY |
| JV | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR |
| PC | PRUNUS CAROLINIANA | CAROLINA CHERRY LAUREL |
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| AG | ABELIA GRANDIFLORA | GLOSSY ABELIA |
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| 2 | 02/05/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2021 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/12/2020 |

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PROJECT ENGINEER/ARCHITECT
 AMI.ALEXMANGOT@SUMMITDESIGN.COM
 PROJECT MANAGER
 DAS@SUMMITDESIGN.COM
 DRAWN BY
 J.ALMIRY.ASHLEY@SUMMITDESIGN.COM
 FIRST ISSUE DATE
 11/01/2021

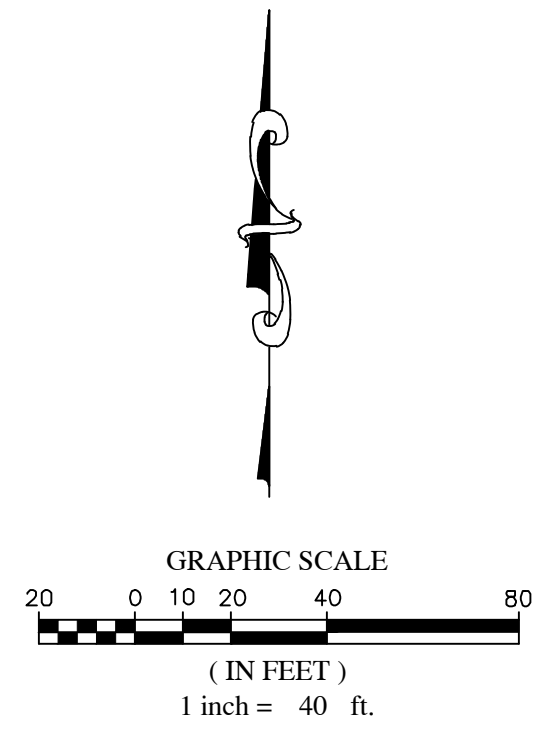
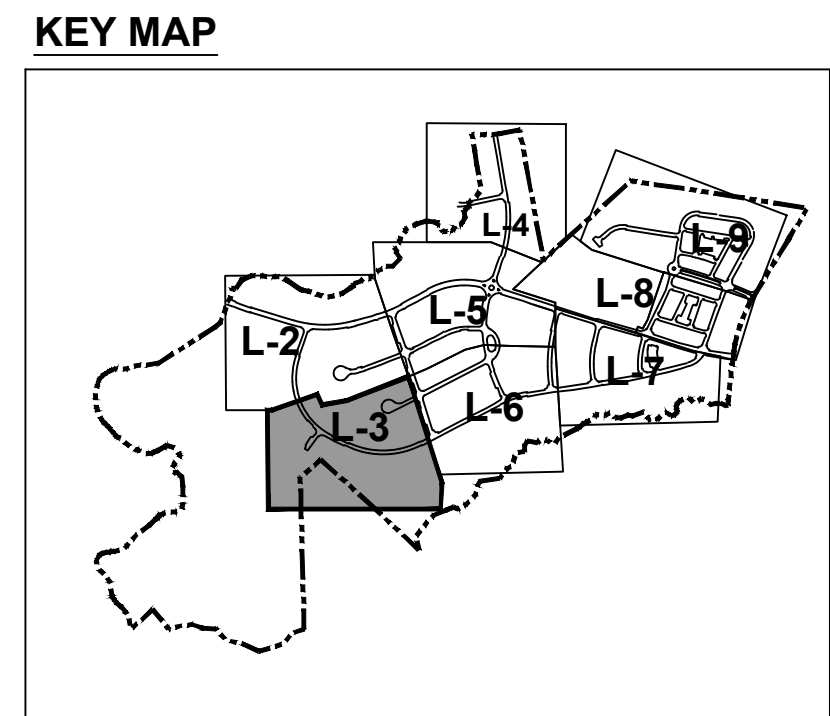
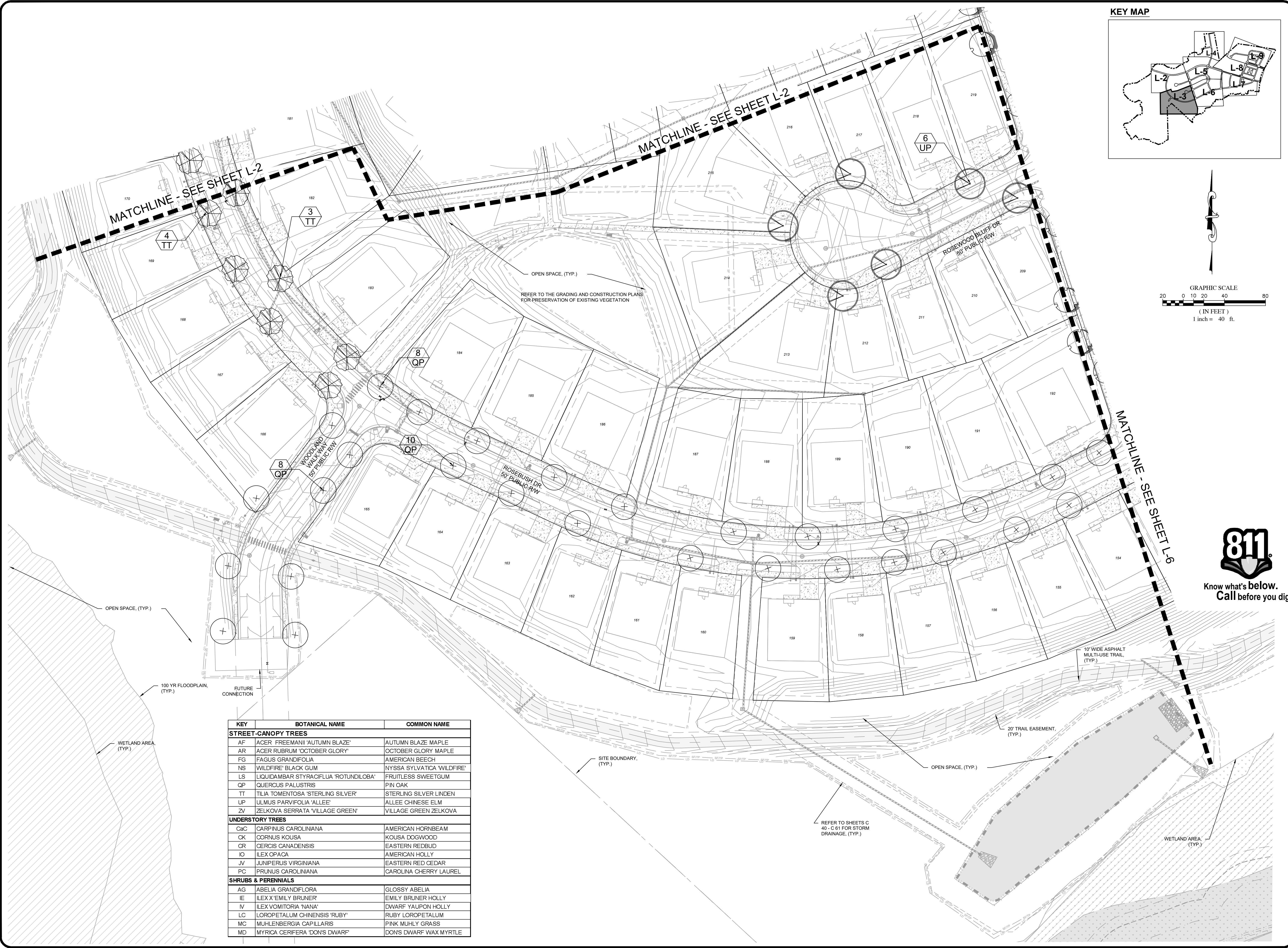


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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

LANDSCAPE PLAN

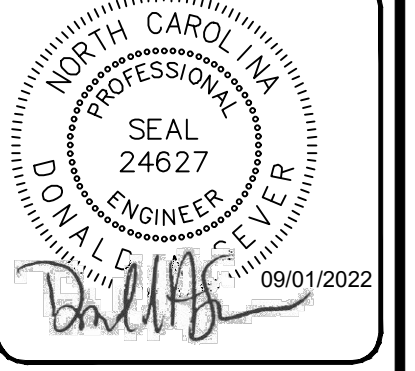
PROJECT NO.
 19-0103
 DRAWING NAME:
 19-0103_ls.dwg
 SHEET NO.
 L-2



| KEY | BOTANICAL NAME | COMMON NAME |
|--------------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE |
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| JV | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR |
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| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/26/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2021 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/12/2020 |

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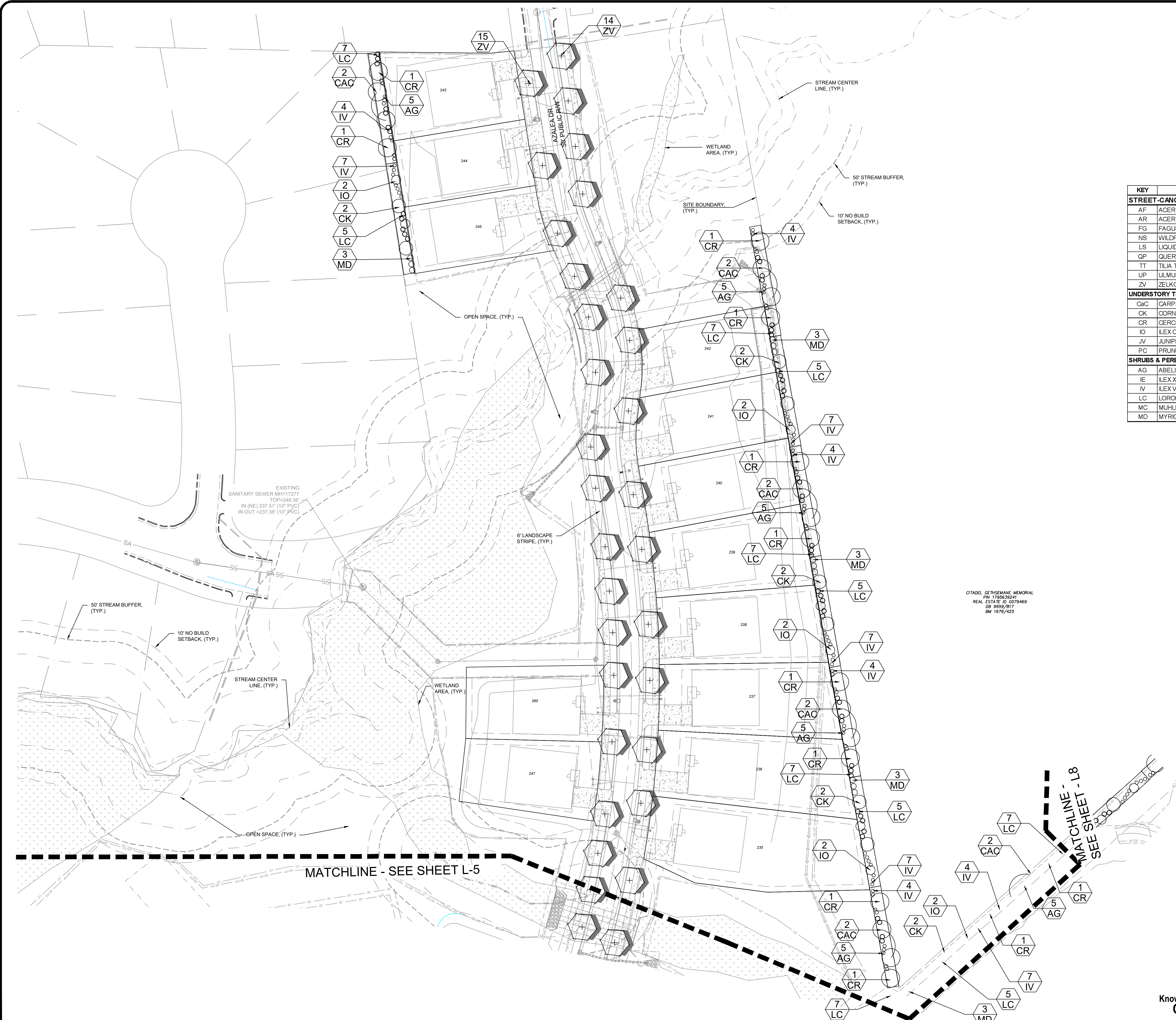
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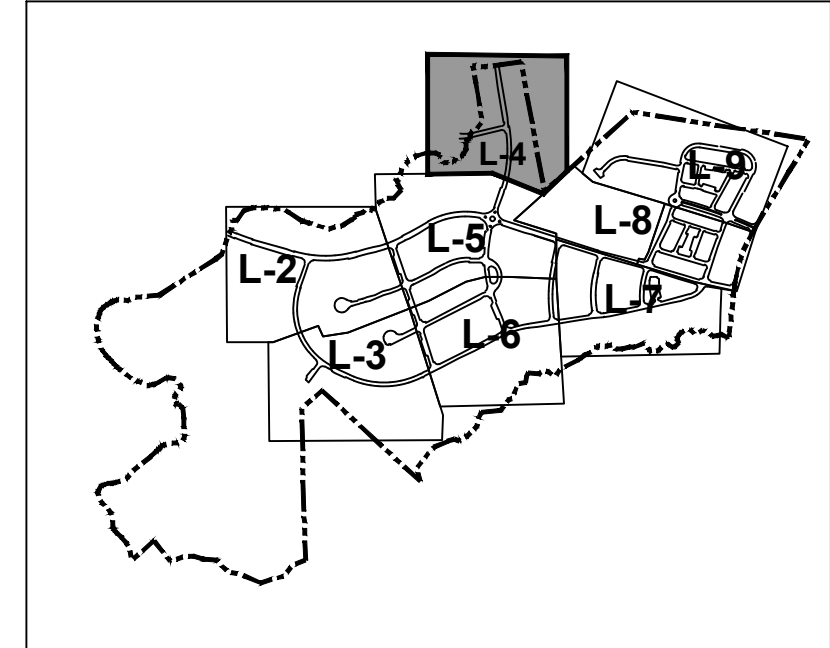
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

LANDSCAPE PLAN

PROJECT NO.
19-0103
 DRAWING NAME:
19-0103_ls.dwg
 SHEET NO.
L-3



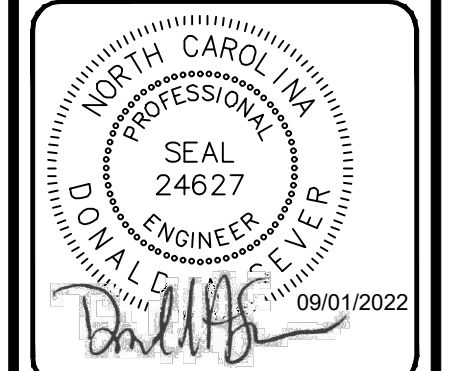
KEY MAP



| KEY | BOTANICAL NAME | COMMON NAME |
|--------------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
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| 2 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 | DAS |
| 1 | REVISOR PER TOWN OF ZEBULON REVIEW COMMENTS 11/12/2021 | DAS |

PROJECT ENGINEER/ARCHITECT
 AMI ALEXANDER@SUMMITDE.NET
 PROJECT MANAGER
 DAS/DON/SE/VE@SUMMITDE.NET
 DRAWING ALTERNATE
 JAL/JIMMY.ASHLEY@SUMMITDE.NET
 FIRST ISSUE DATE
 11/01/2021

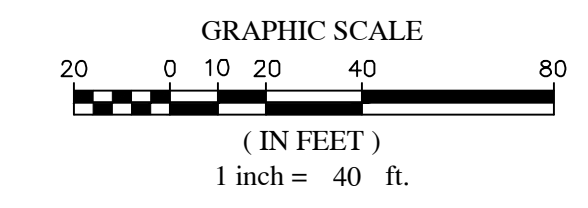


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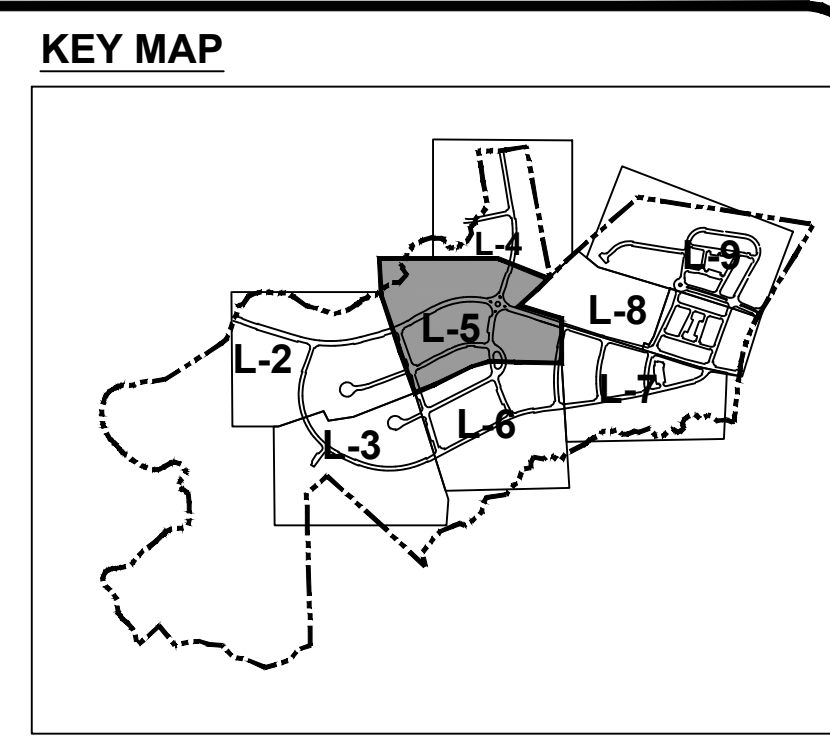
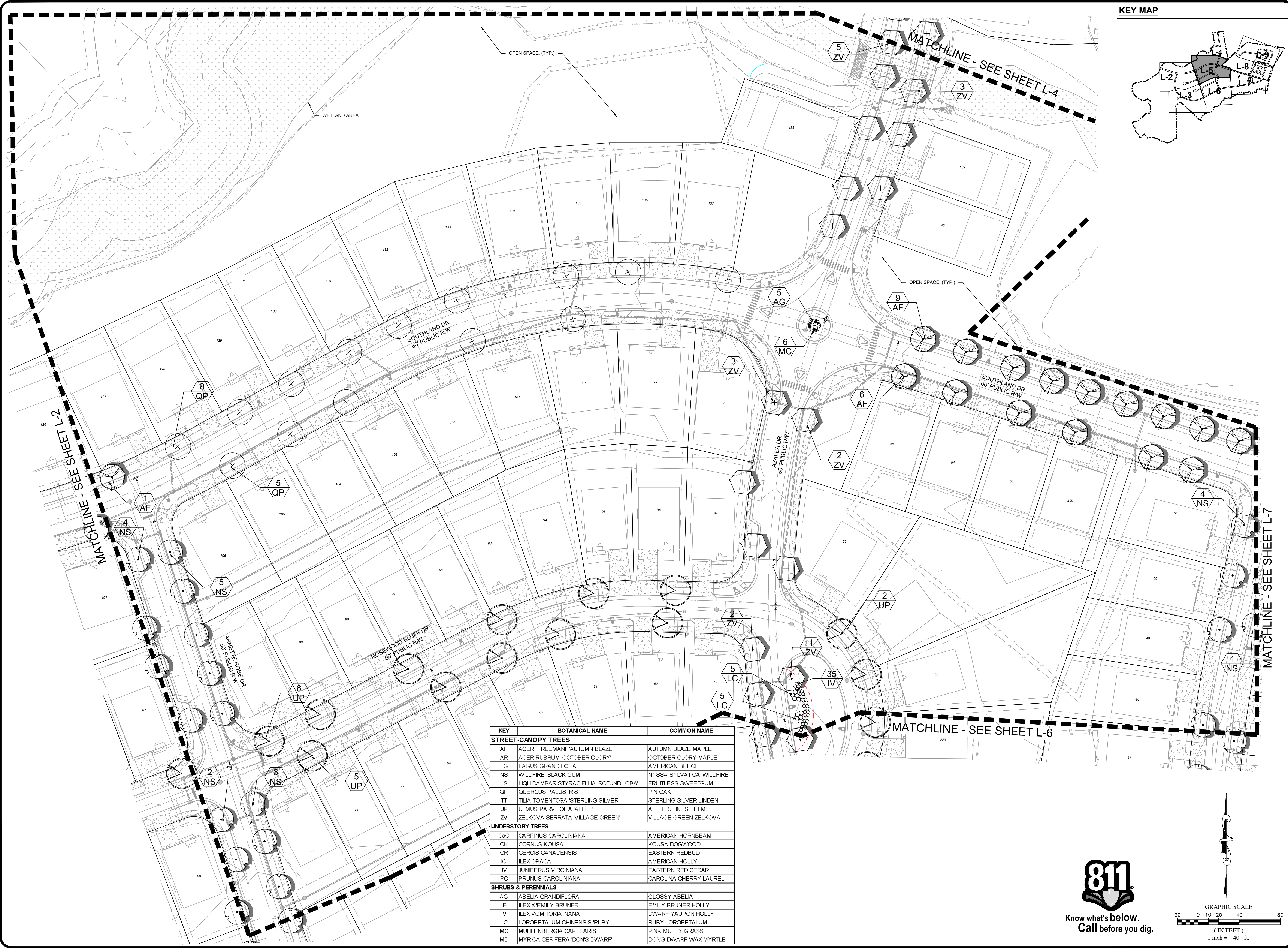
LANDSCAPE PLAN

PROJECT NO.
19-0103
 DRAWING NAME:
 19-0103_ls.dwg
 SHEET NO.
L-4



CITADEL GETHSEMANE MEMORIAL
 PIN 1735639241
 REAL ESTATE ID: 0079469
 DB 9959/817
 BM 1979/425

EXISTING SANITARY SEWER MH# 17277
 TOP=246.56'
 IN (NE) 237.51' (10" PVC)
 IN OUT =237.36' (10" PVC)

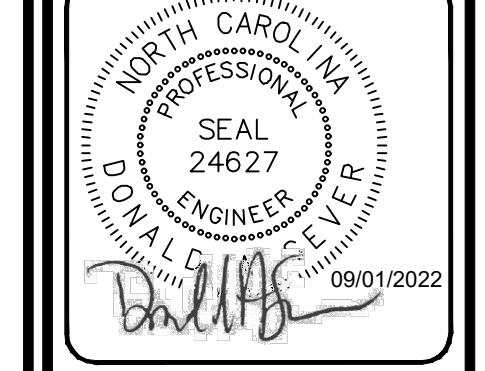


| KEY | BOTANICAL NAME | COMMON NAME |
|--------------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE |
| FG | FAGUS GRANDIFOLIA | AMERICAN BEECH |
| NS | WILDFIRE' BLACK GUM | NYSSA SYLVATICA 'WILDFIRE' |
| LS | LIQUIDAMBAR STYRACIFLUA 'ROTUNDOLOBA' | FRUITLESS SWEETGUM |
| QP | QUERCUS PALUSTRIS | PIN OAK |
| TT | TILIA TOMENTOSA 'STERLING SILVER' | STERLING SILVER LINDEN |
| UP | ULMUS PARVIFOLIA 'ALLEE' | ALLEE CHINESE ELM |
| ZV | ZELKOVA SERRATA 'VILLAGE GREEN' | VILLAGE GREEN ZELKOVA |
| UNDERSTORY TREES | | |
| CaC | CARPINUS CAROLINIANA | AMERICAN HORNBEAM |
| CK | CORNUS KOUSA | KOUSA DOGWOOD |
| CR | CERCIS CANADENSIS | EASTERN REDBUD |
| IO | ILEX OPACA | AMERICAN HOLLY |
| JV | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR |
| PC | PRUNUS CAROLINIANA | CAROLINA CHERRY LAUREL |
| SHRUBS & PERENNIALS | | |
| AG | ABELIA GRANDIFLORA | GLOSSY ABELIA |
| IE | ILEX X EMILY BRUNER' | EMILY BRUNER HOLLY |
| IV | ILEX VOMITORIA 'NANA' | DWARF YAUPON HOLLY |
| LC | LOROPETALUM CHINENSIS 'RUBY' | RUBY LOROPETALUM |
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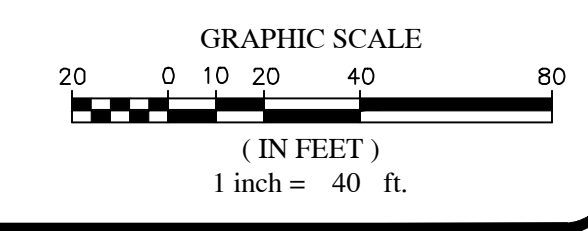


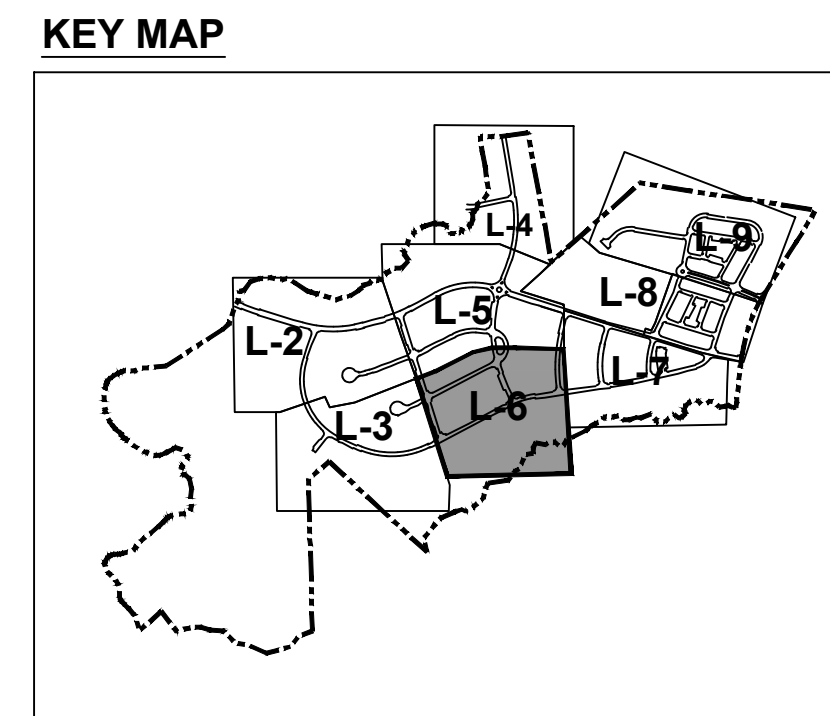
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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

LANDSCAPE PLAN

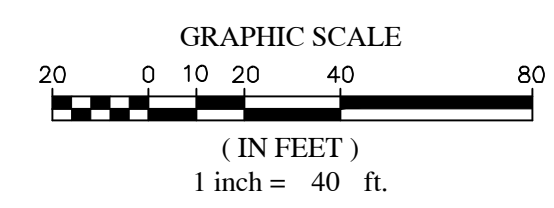
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 DRAWING NAME:
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 SHEET NO.
L-5





| KEY | BOTANICAL NAME | COMMON NAME |
|--------------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE |
| FG | FAGUS GRANDIFOLIA | AMERICAN BEECH |
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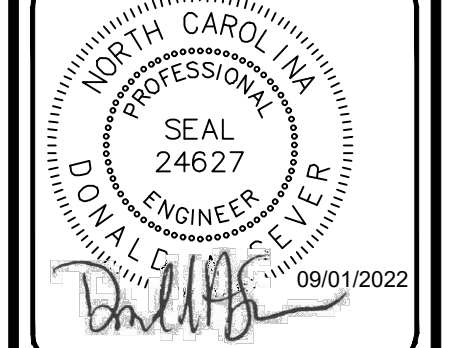
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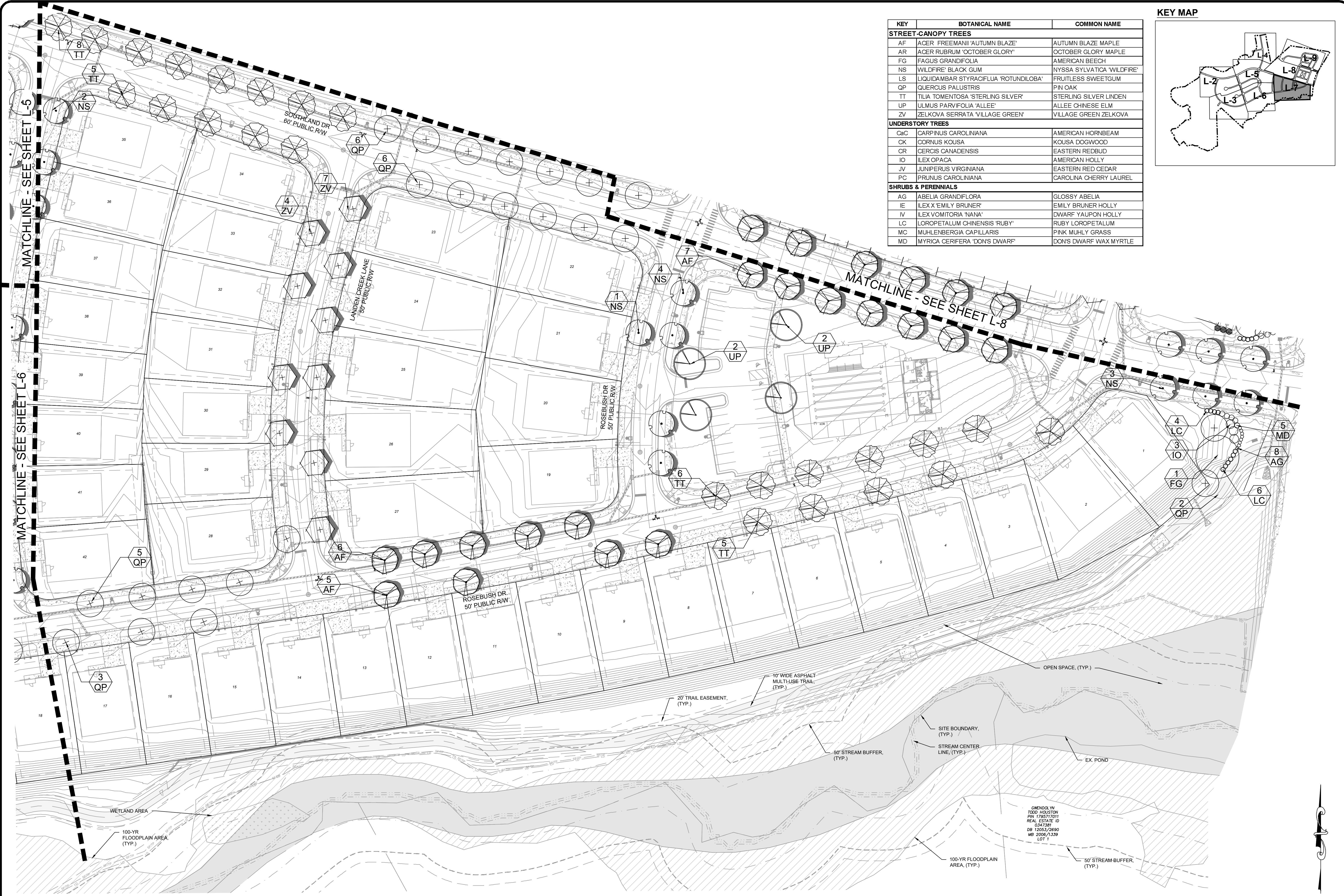
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FIRST ISSUE DATE: 11/01/2021



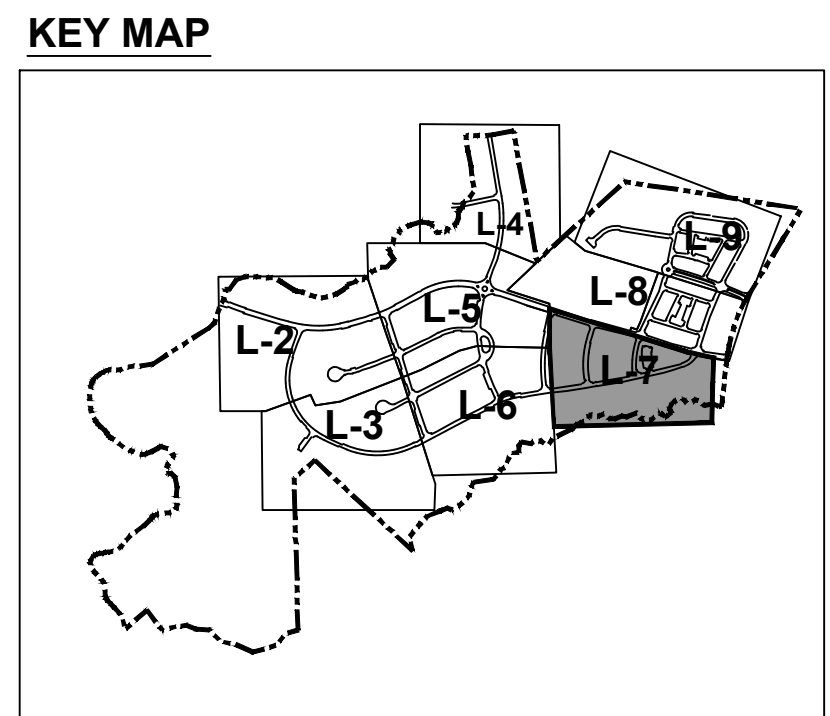
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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
LANDSCAPE PLAN

PROJECT NO.: 19-0103
DRAWING NAME: 19-0103_ls.dwg
SHEET NO.: L-6



| KEY | BOTANICAL NAME | COMMON NAME |
|--------------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE |
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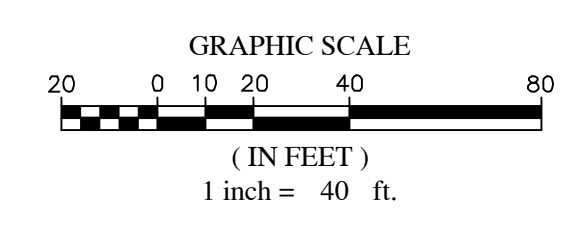
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 PROJECT MANAGER
 DAS@SUMMITDE.NET
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 J.ALMY/ASHLEY@SUMMITDE.NET
 FIRST ISSUE DATE
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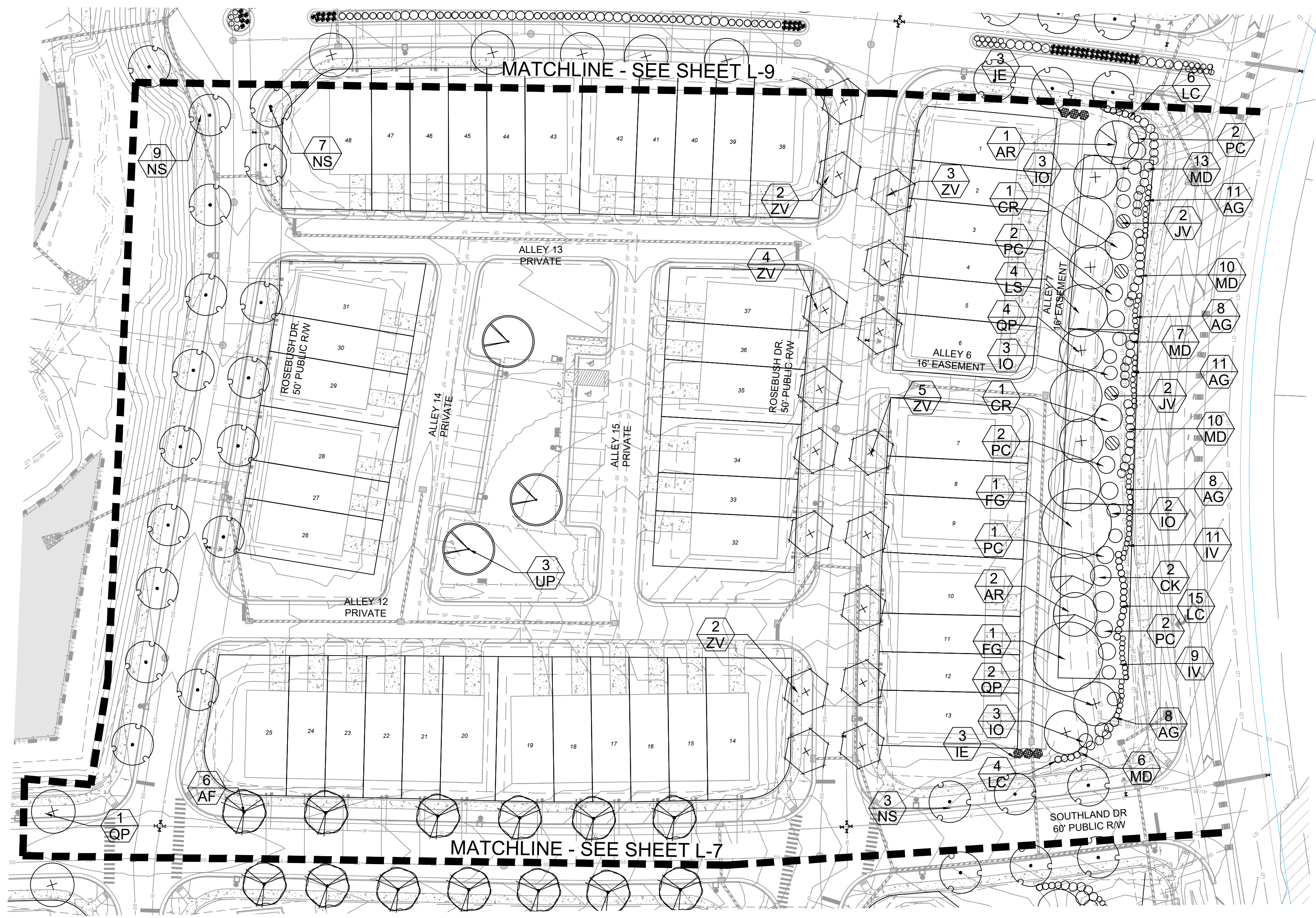
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LANDSCAPE PLAN

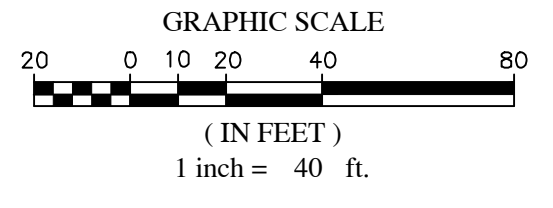
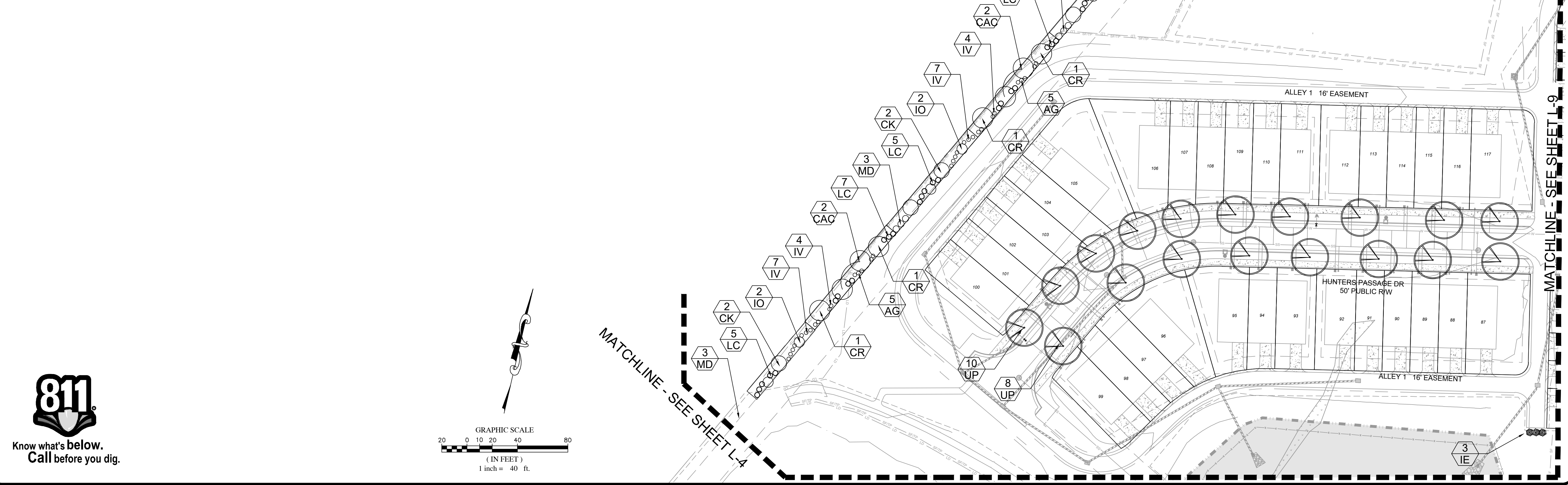
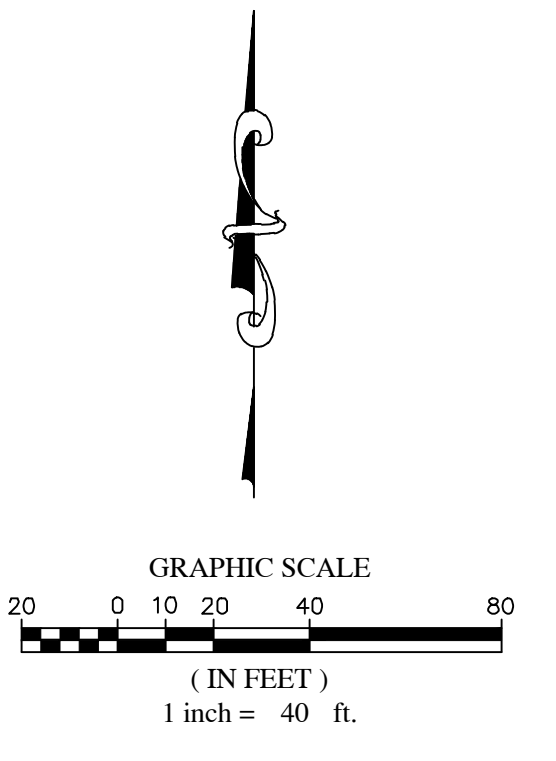
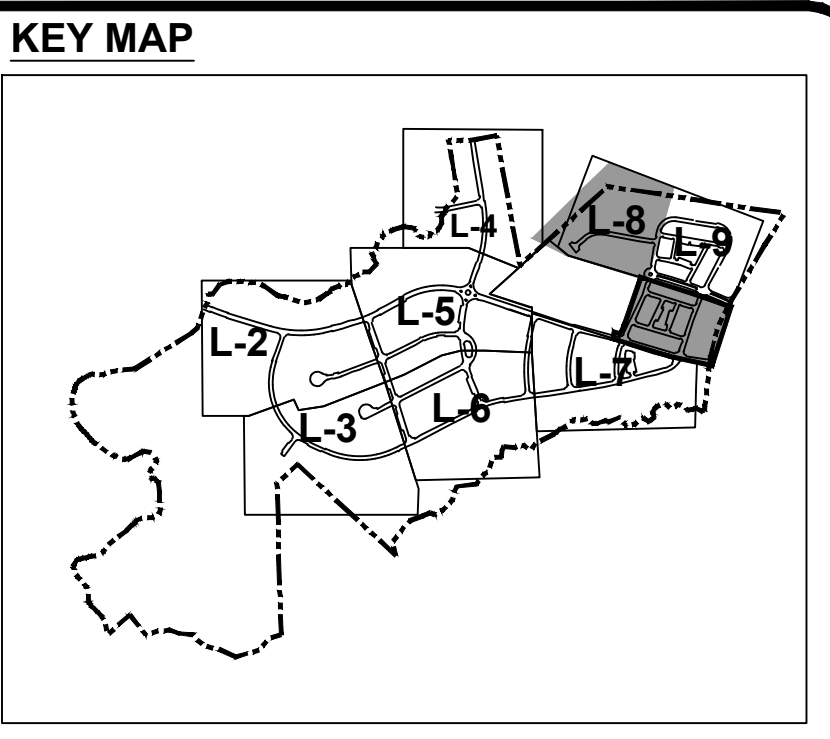
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L-7



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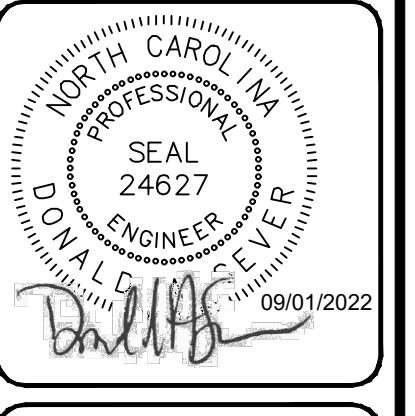
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 DRAWN BY
 JALUMBY.ASHLEY@SUMMITDE.NET
 FIRST ISSUE DATE
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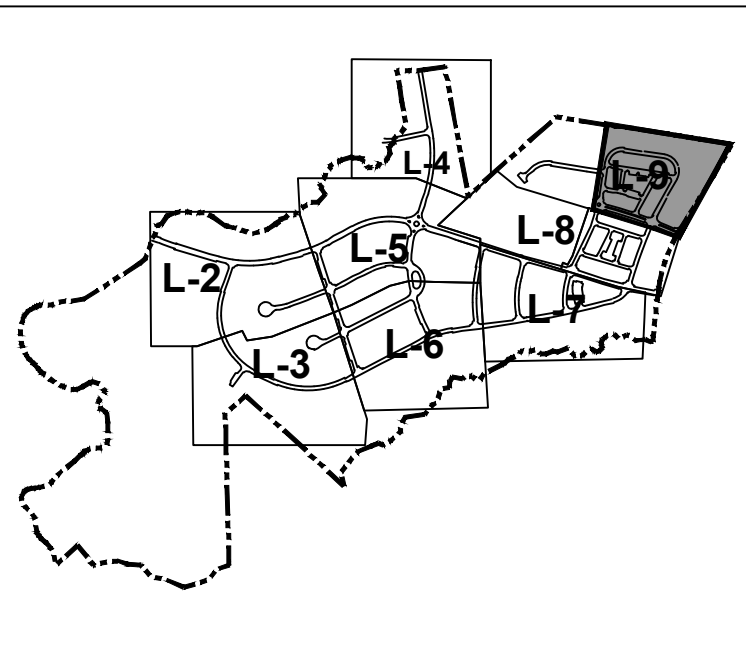
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 PROJECT NO.
 19-0103
 DRAWING NAME:
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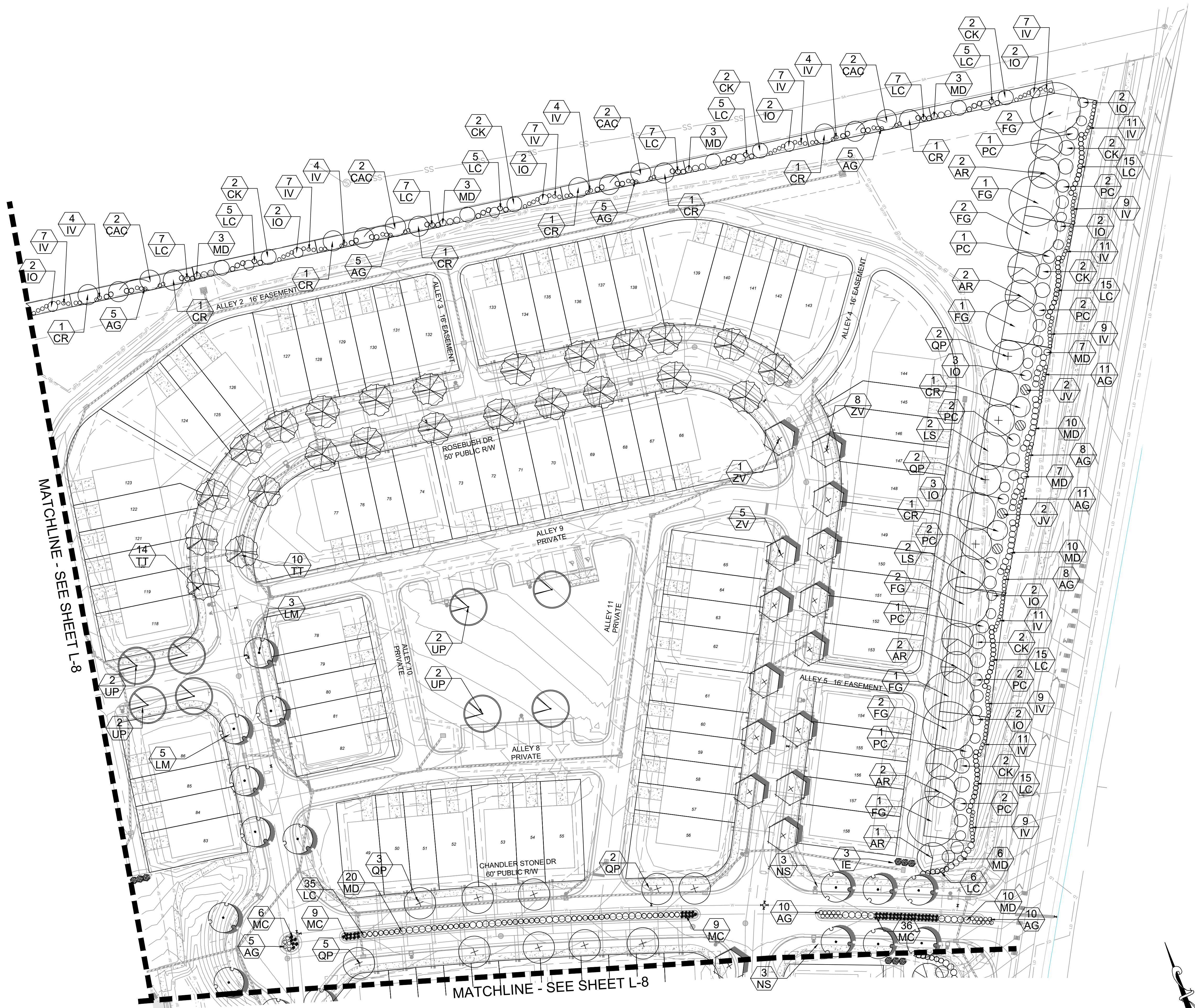
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KEY MAP

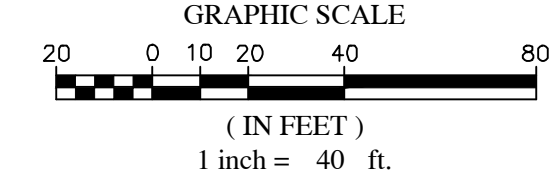
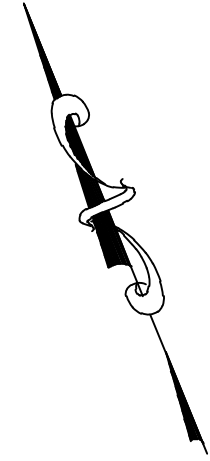


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MATCHLINE - SEE SHEET L-8

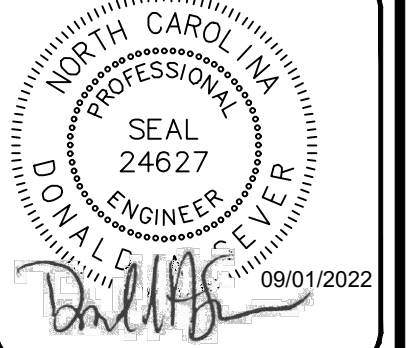
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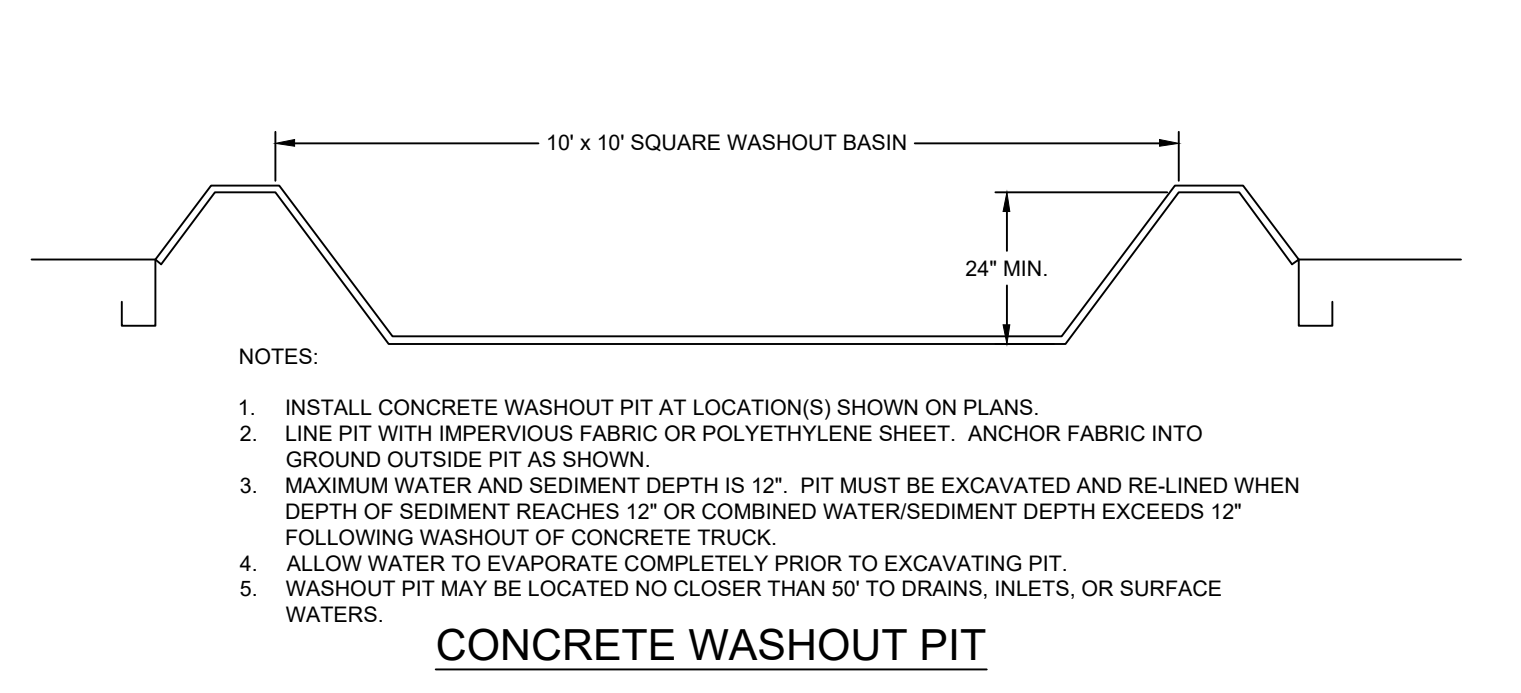
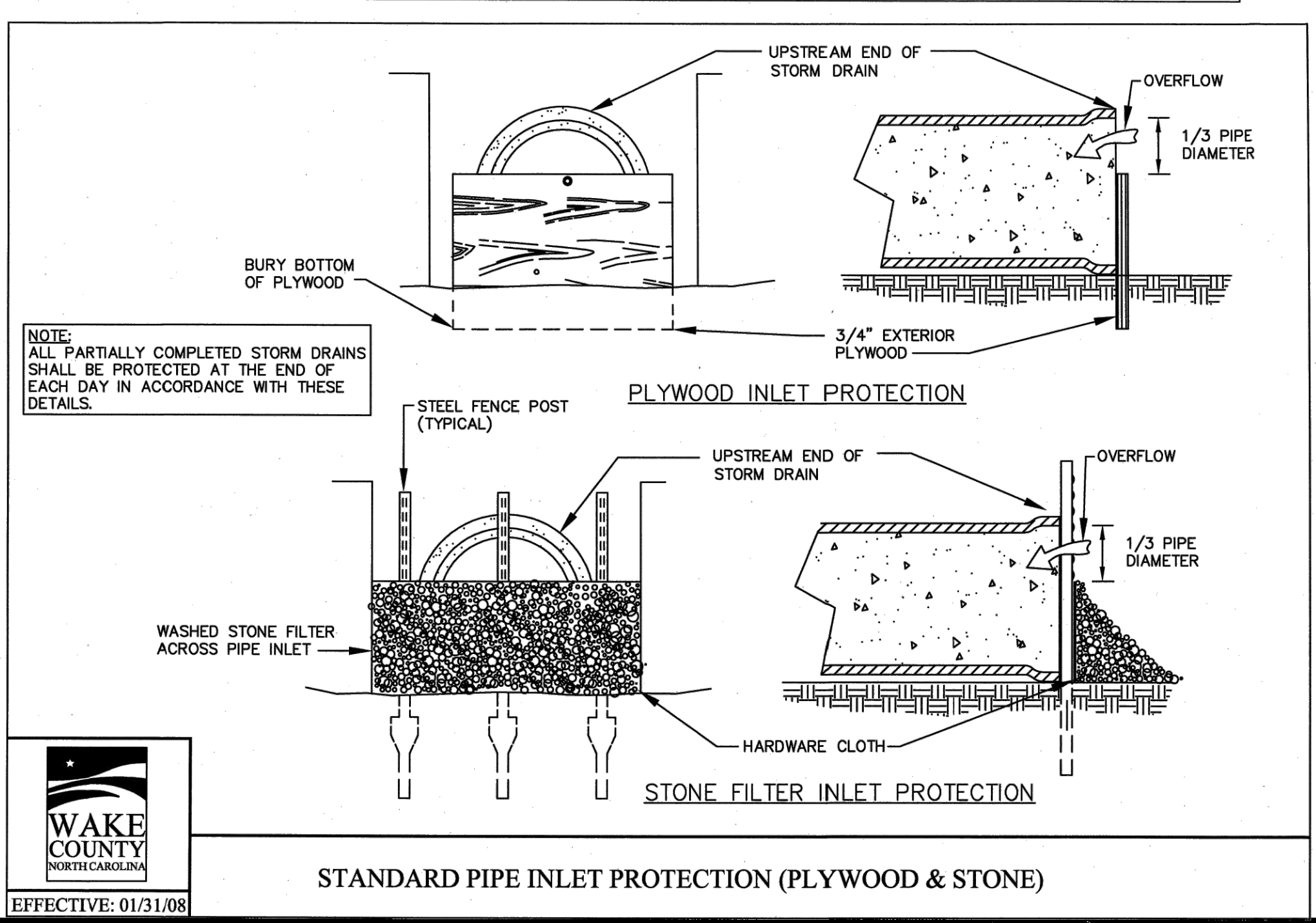
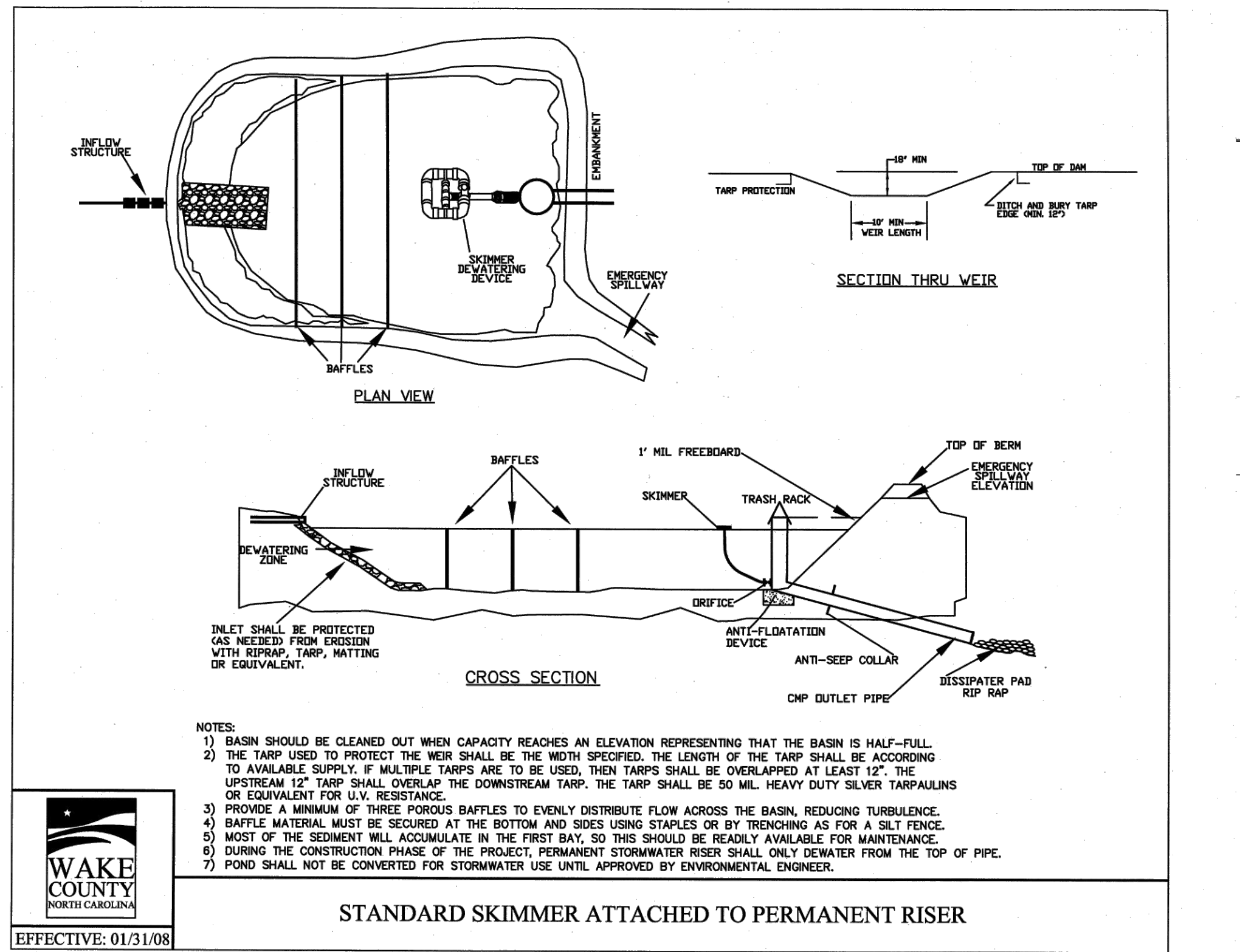
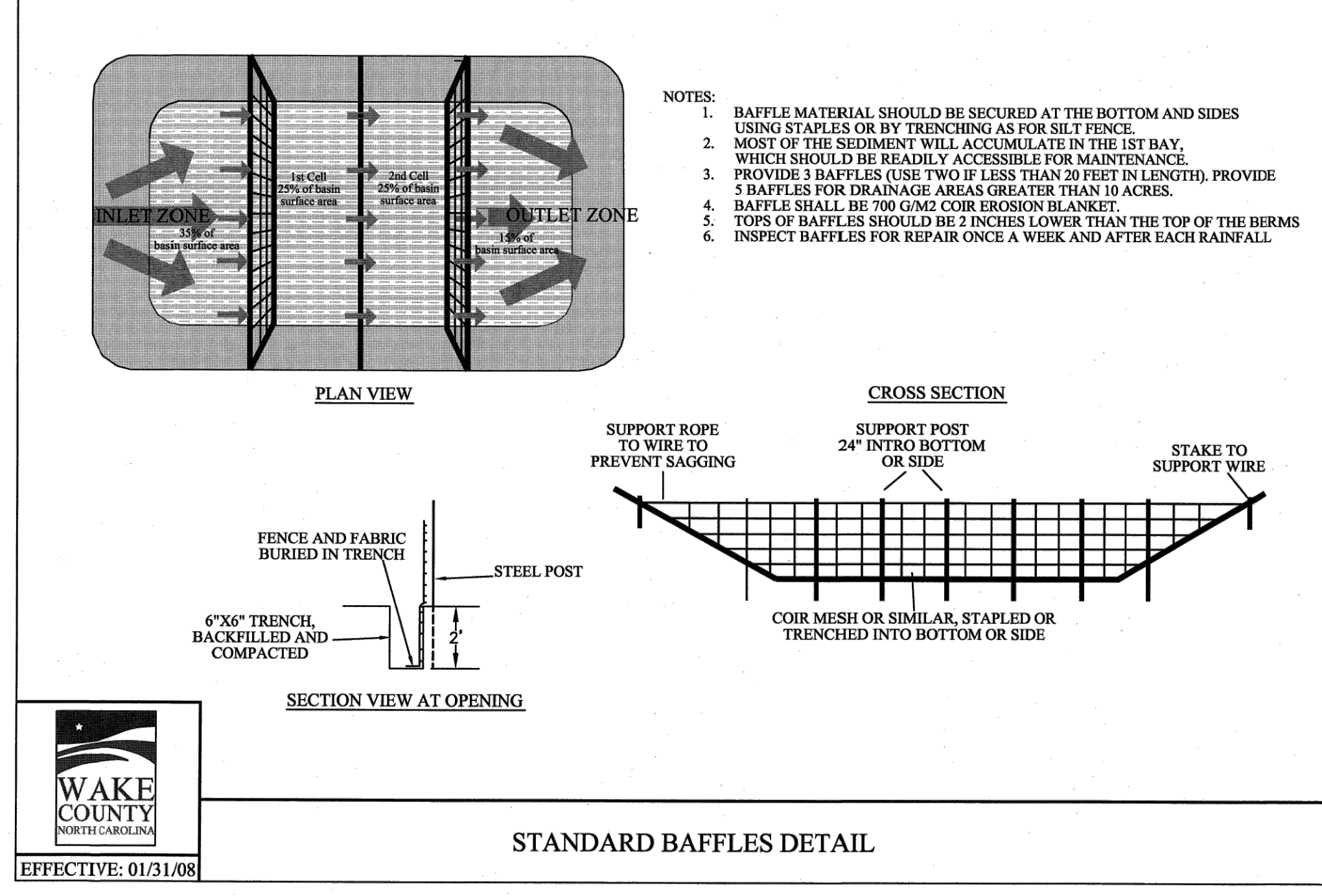
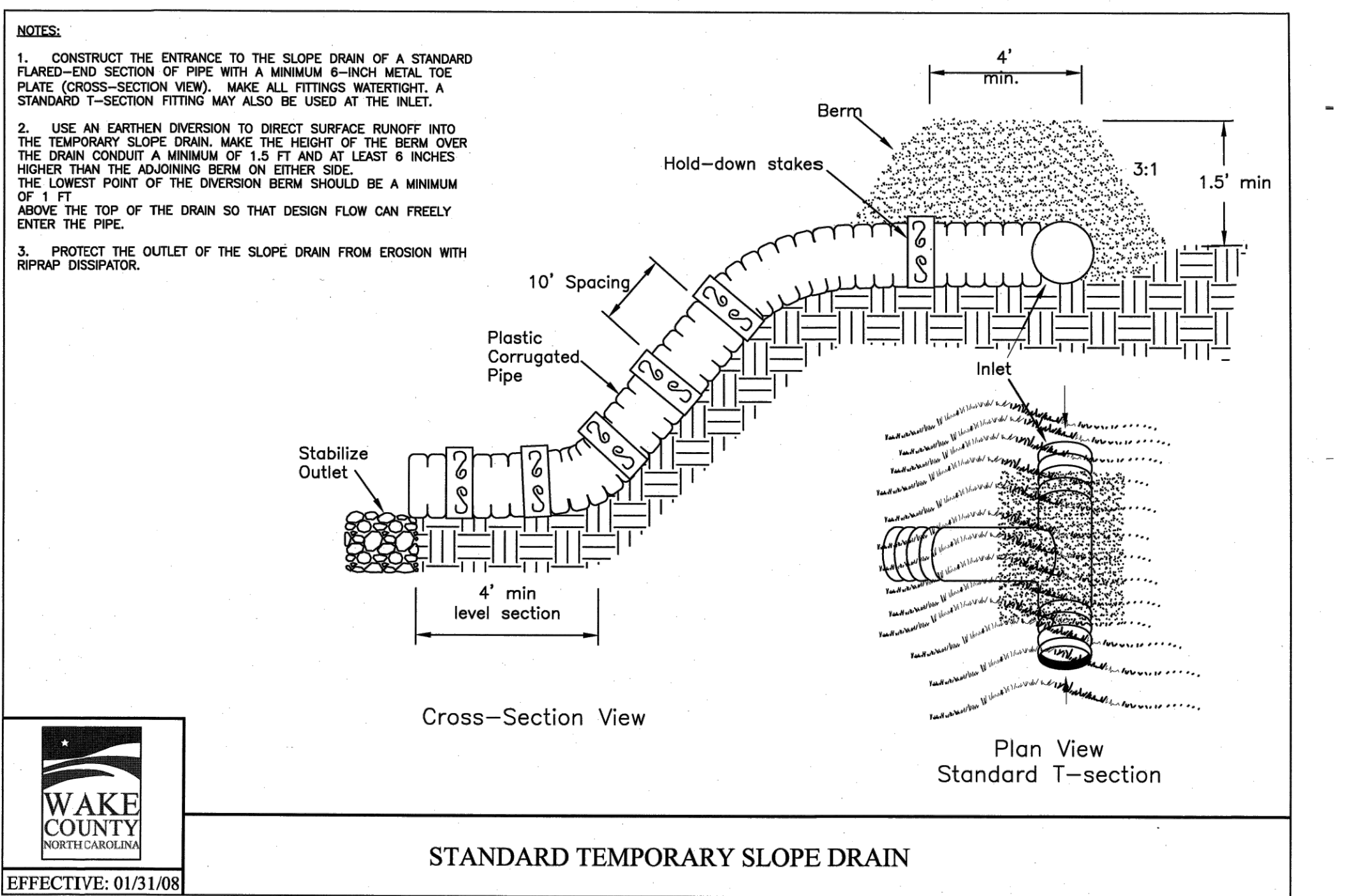
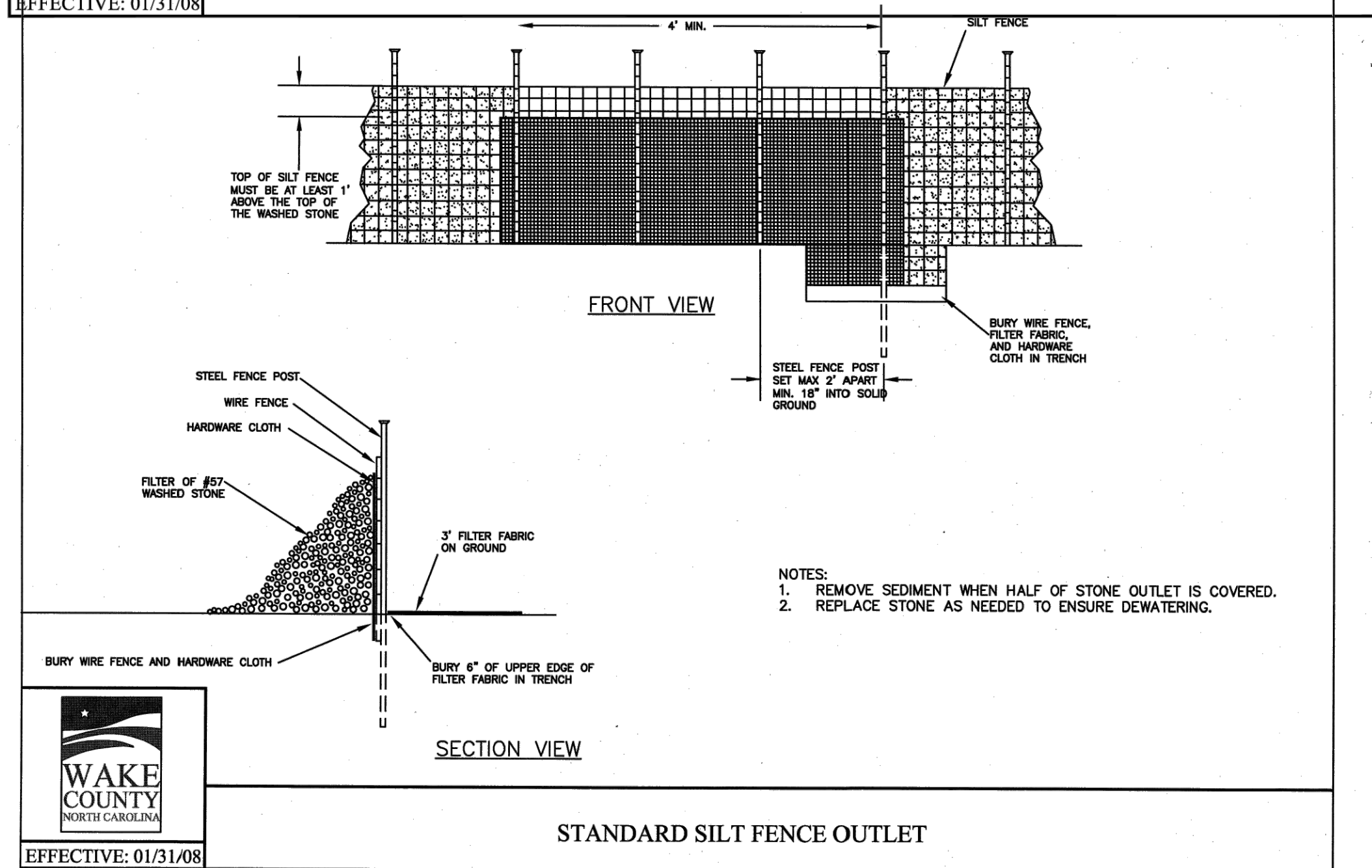
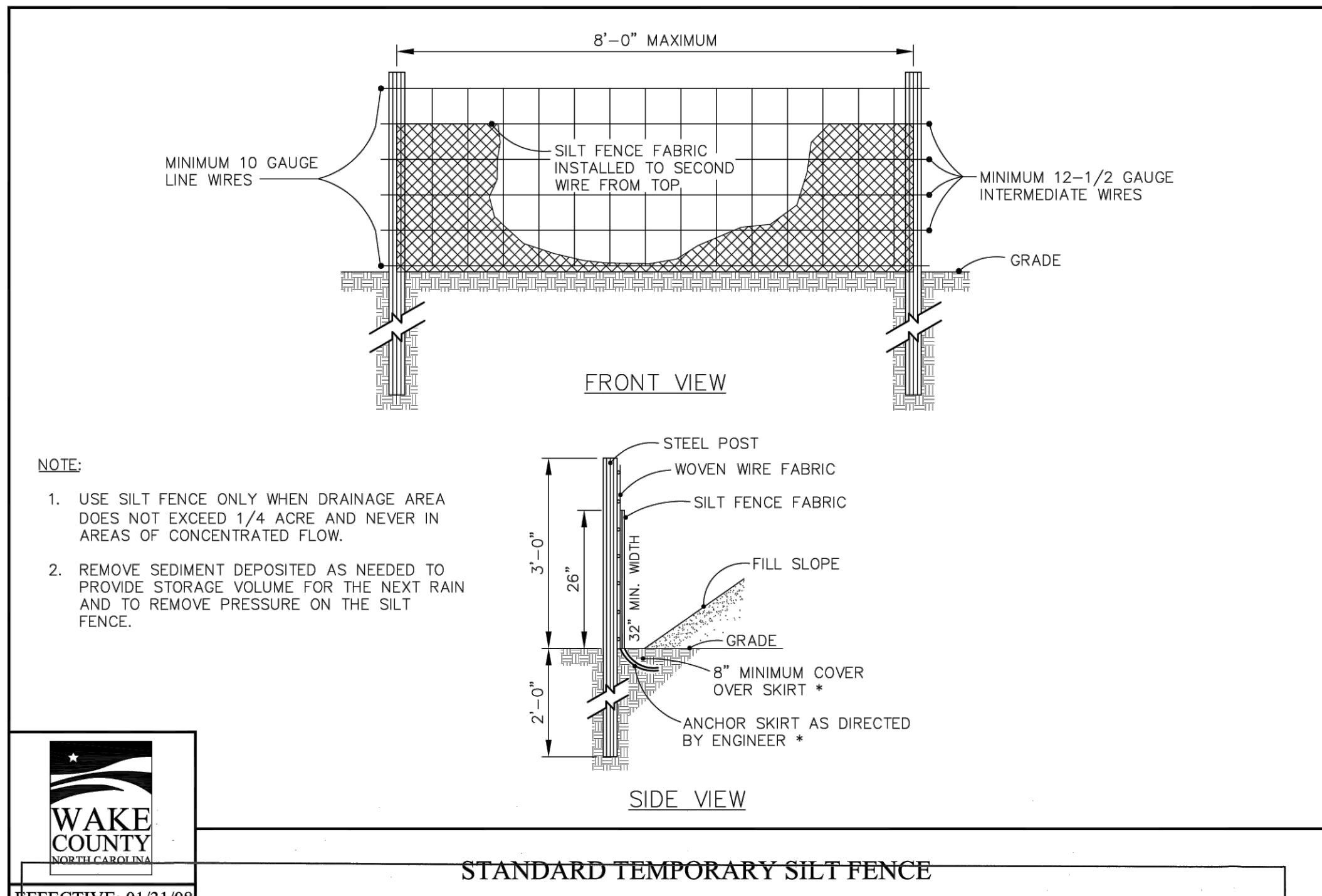
PROJECT ENGINEER/ARCHITECT
 AMI.ALEXMANGOT@SUMMITDESIGN.COM
 PROJECT MANAGER
 DAS@SUMMITDESIGN.COM
 DRAWN BY
 J.ALMY/ASHLEY@SUMMITDESIGN.COM
 FIRST ISSUE DATE
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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC
LANDSCAPE PLAN

PROJECT NO.
19-0103
 DRAWING NAME:
 19-0103_ls.dwg
 SHEET NO.
L-9



| NO. | DATE | BY | REVISIONS |
|-----|------------|-----|--|
| 7 | 09/01/2022 | DAS | FINAL SET |
| 6 | 06/07/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 |
| 5 | 05/03/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 |
| 4 | 04/06/2022 | DAS | REVISED PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/26/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2021 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/17/2020 |

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 PROJECT NO. 19-0103
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AM ALEXANDER ARCHITECT
 PROJECT MANAGER
 PROJECT NO. 19-0103
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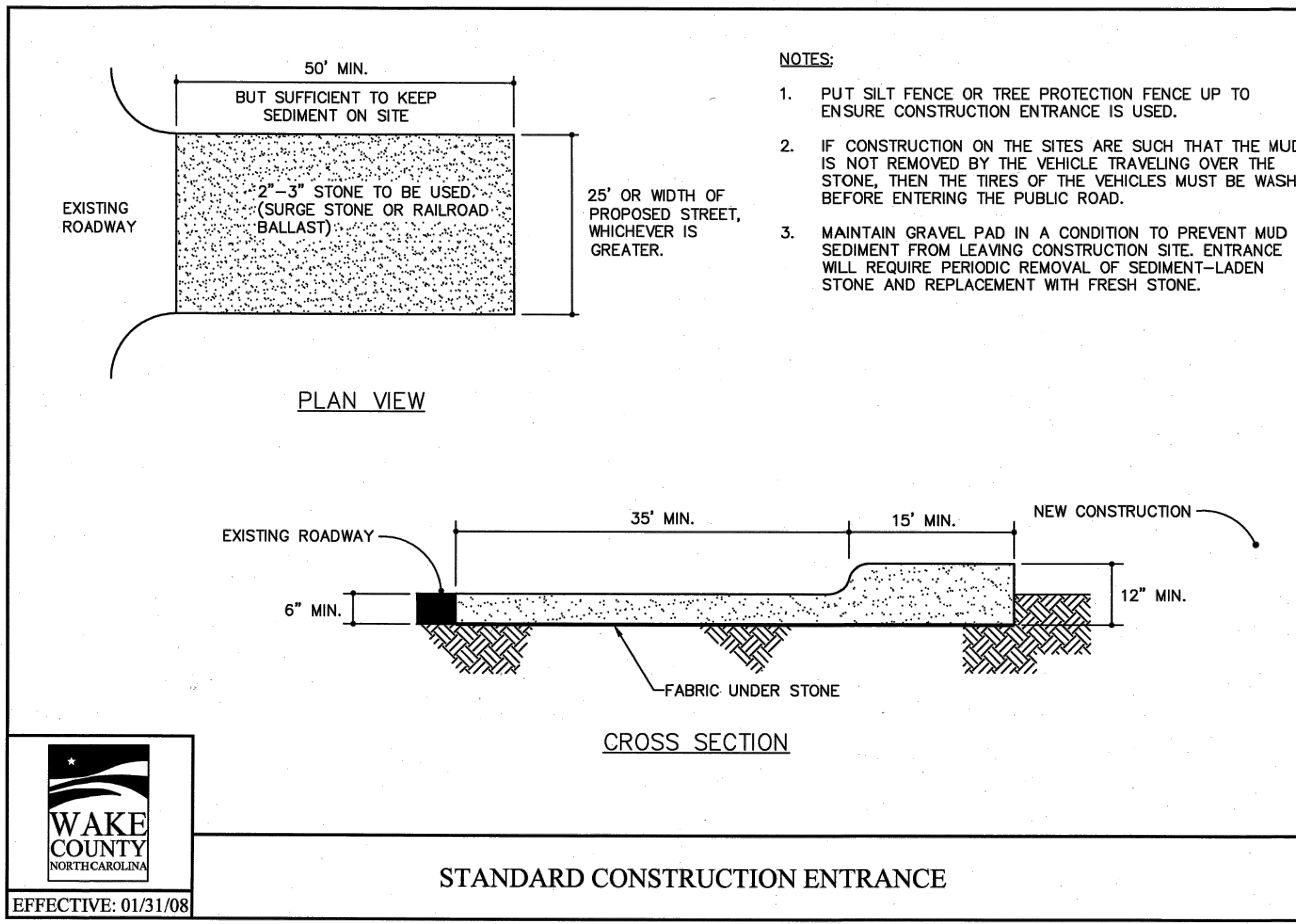
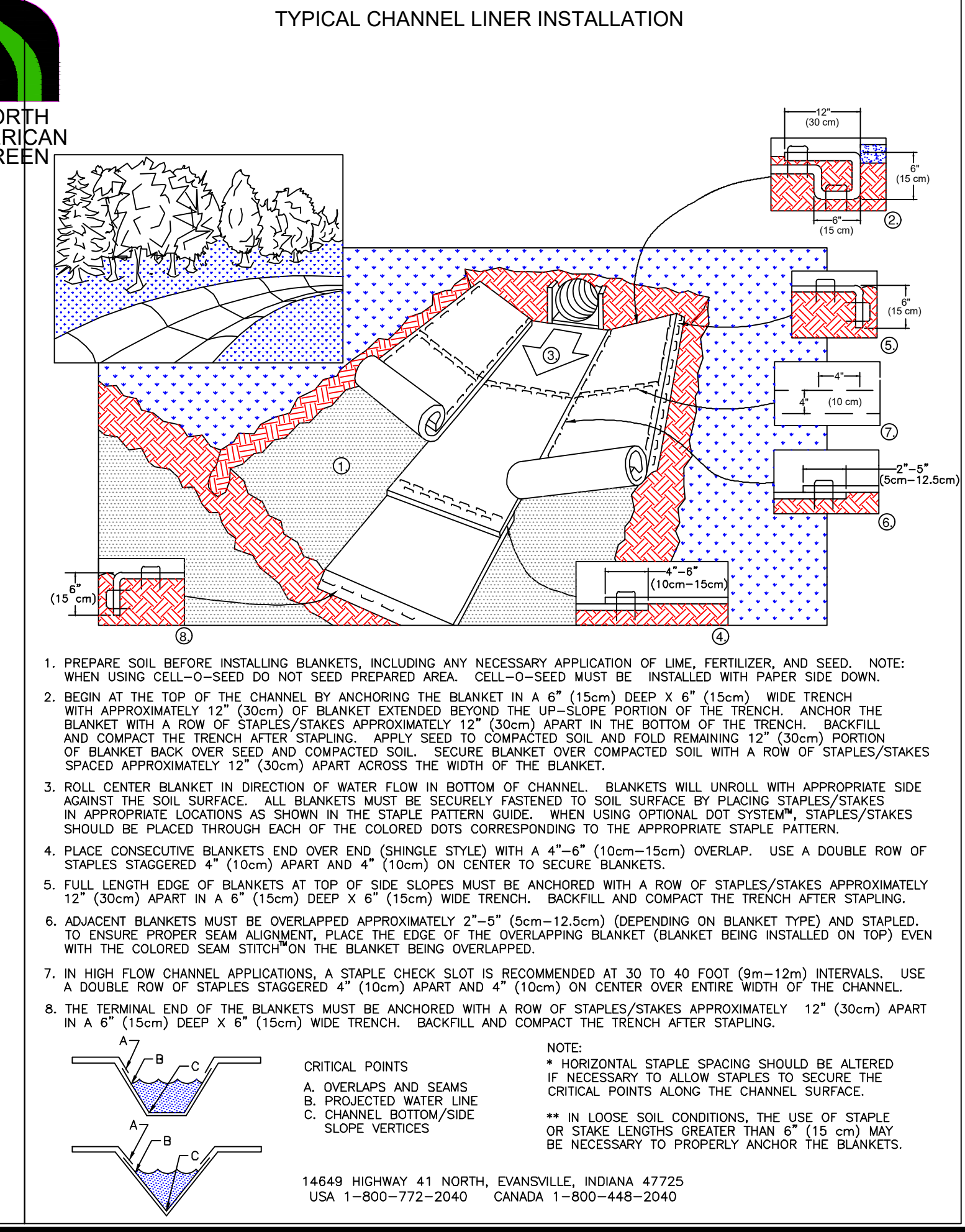
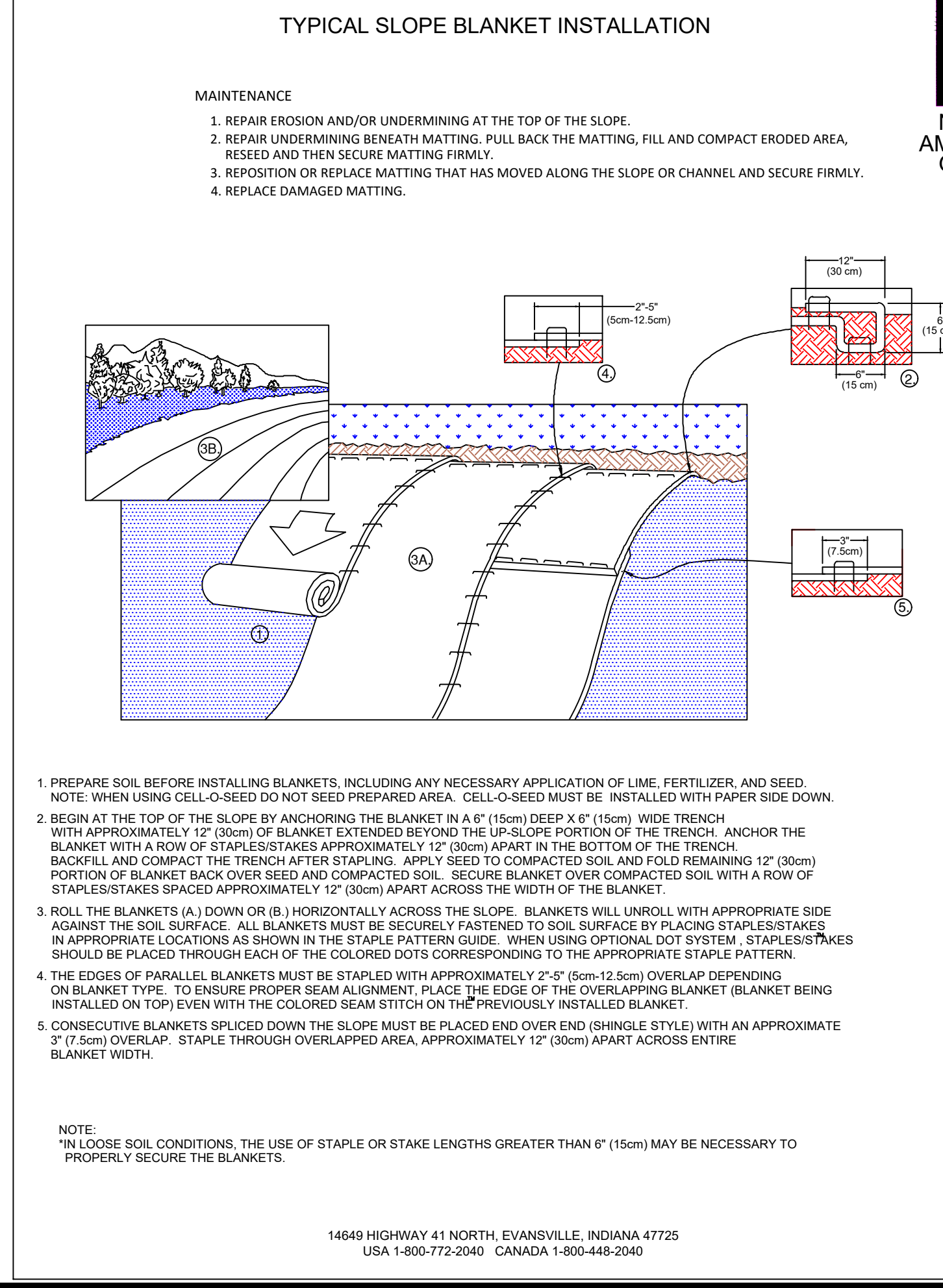
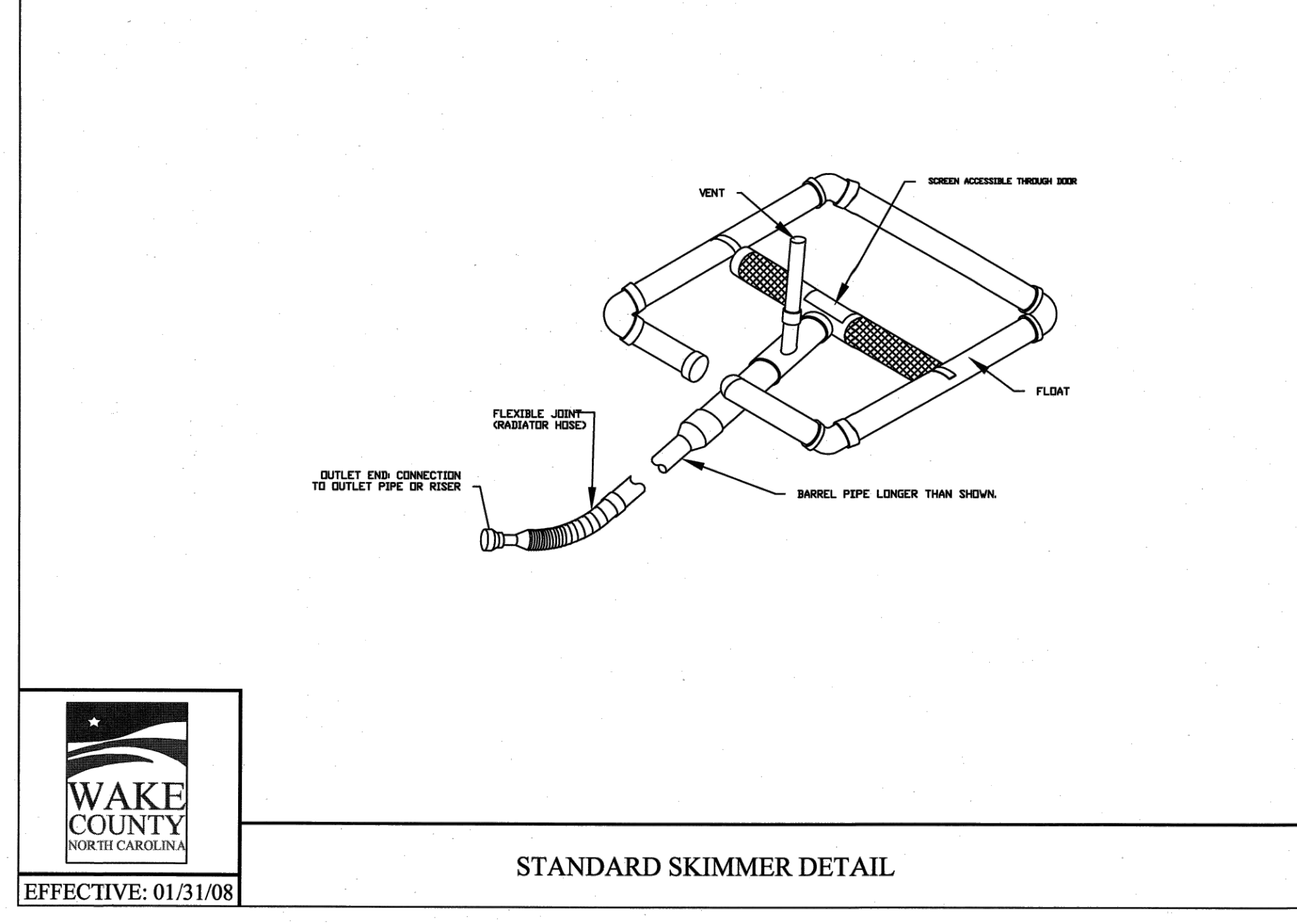
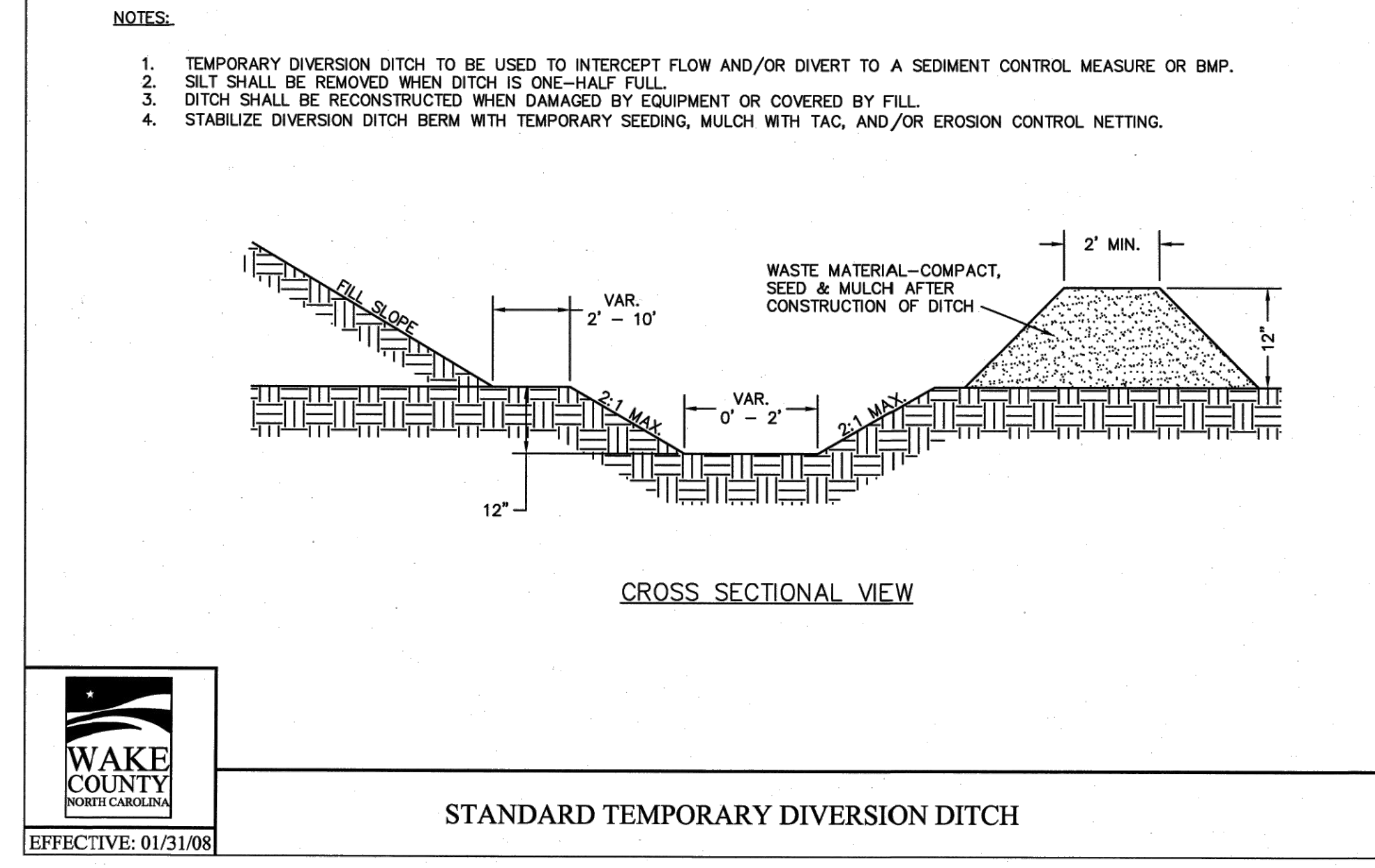
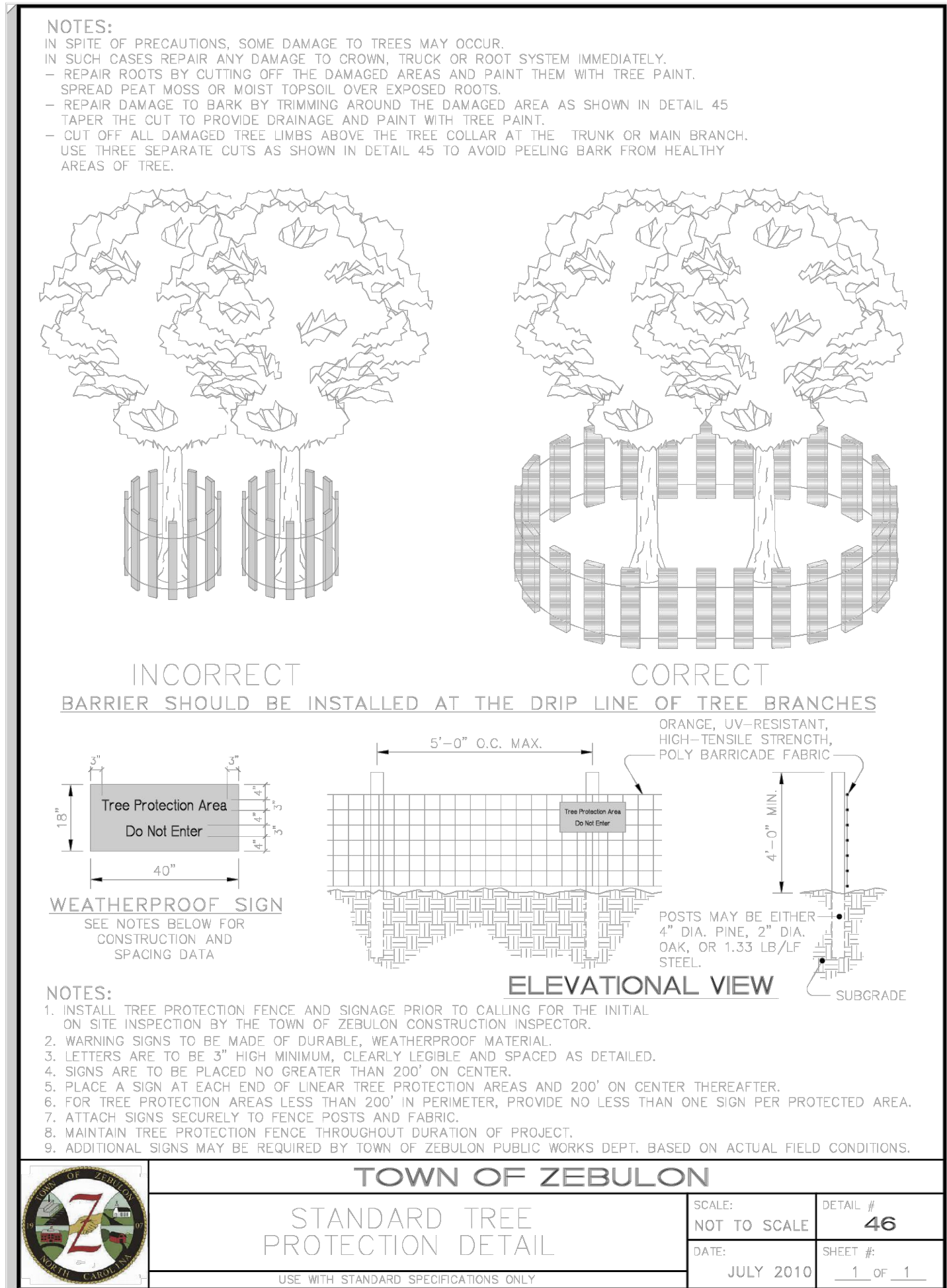
PROFESSIONAL ENGINEER
 SEAL 24627
 DATE 09/01/2022

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CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

EROSION CONTROL DETAILS

PROJECT NO. 19-0103
 DRAWING NAME: 19-0103_d.dwg
 SHEET NO. D-1



| NO. | DATE | REVISIONS | BY |
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| 7 | 09/07/2022 | DAS | |
| 6 | 06/07/2022 | DAS | |
| 5 | 05/03/2022 | DAS | |
| 4 | 04/08/2022 | DAS | |
| 3 | 03/24/2022 | DAS | |
| 2 | 02/14/2022 | DAS | |
| 1 | 01/07/2022 | DAS | |

PROJECT ENGINEER/ARCHITECT: AMI.ALEXMANGOT@SUMMITDE.NET
PROJECT MANAGER: DAS/DON.SEVER@SUMMITDE.NET
DRAWN BY: JALIMMY.ASHLEY@SUMMITDE.NET
FIRST ISSUE DATE: 11/01/2021

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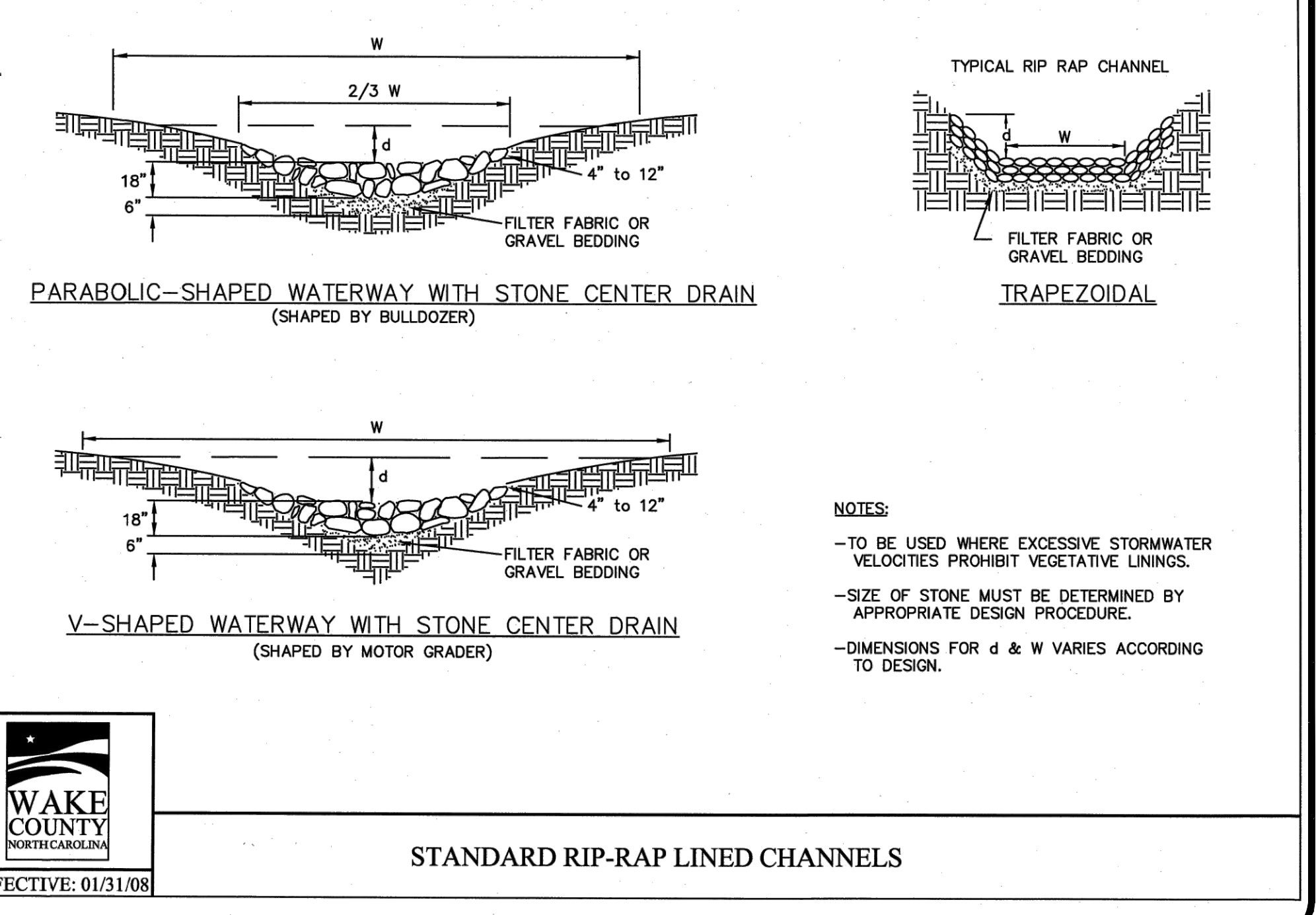
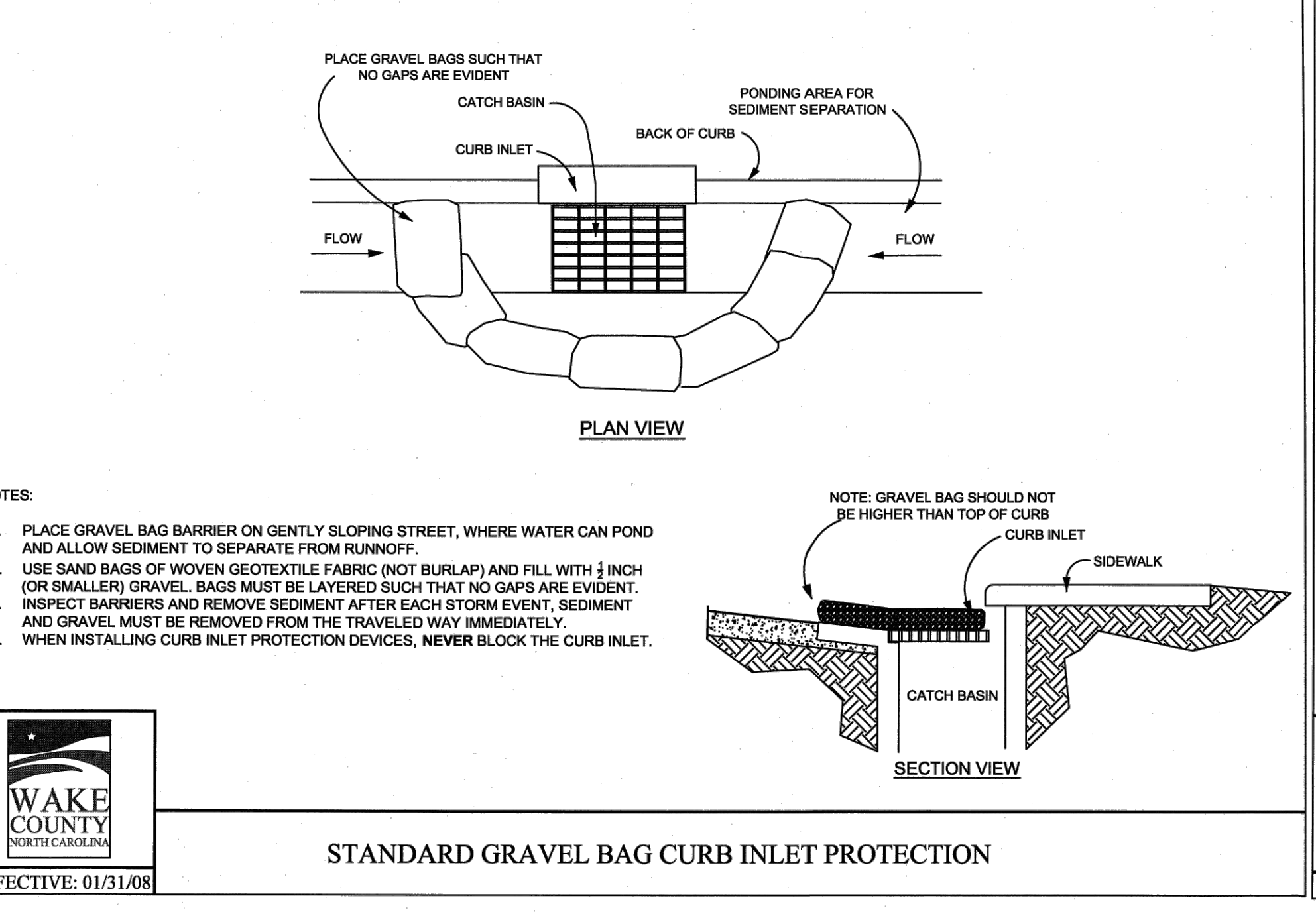
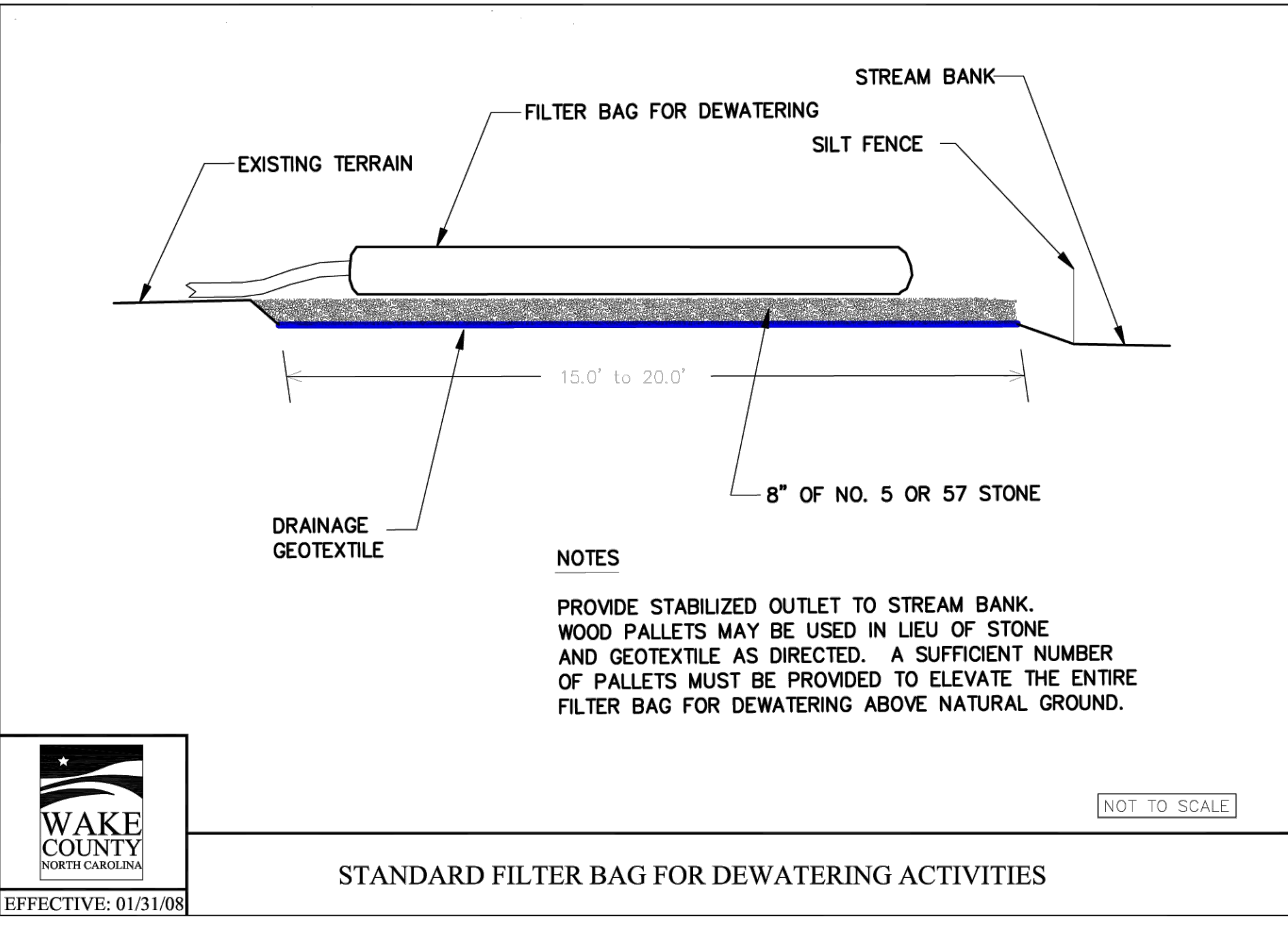
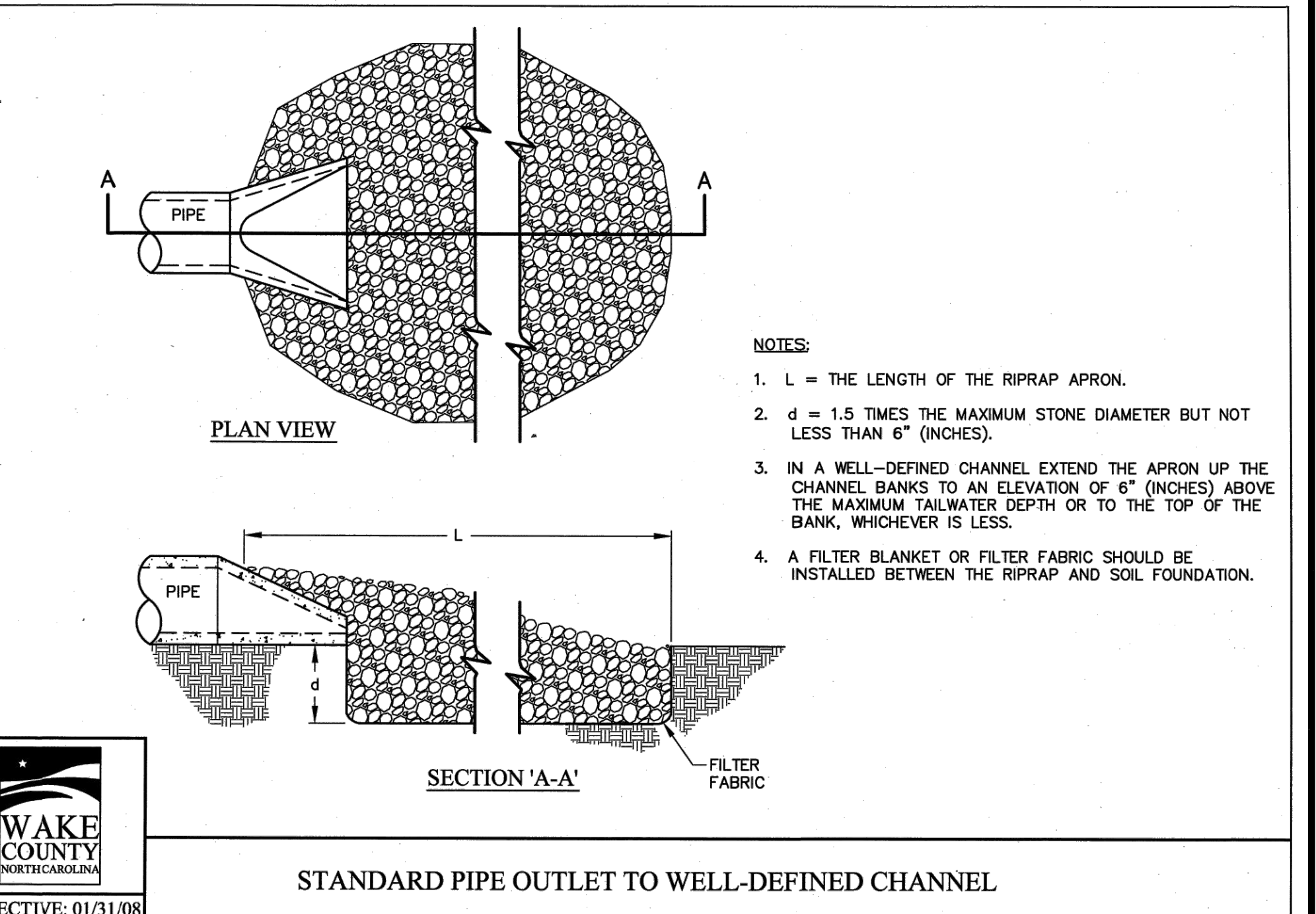
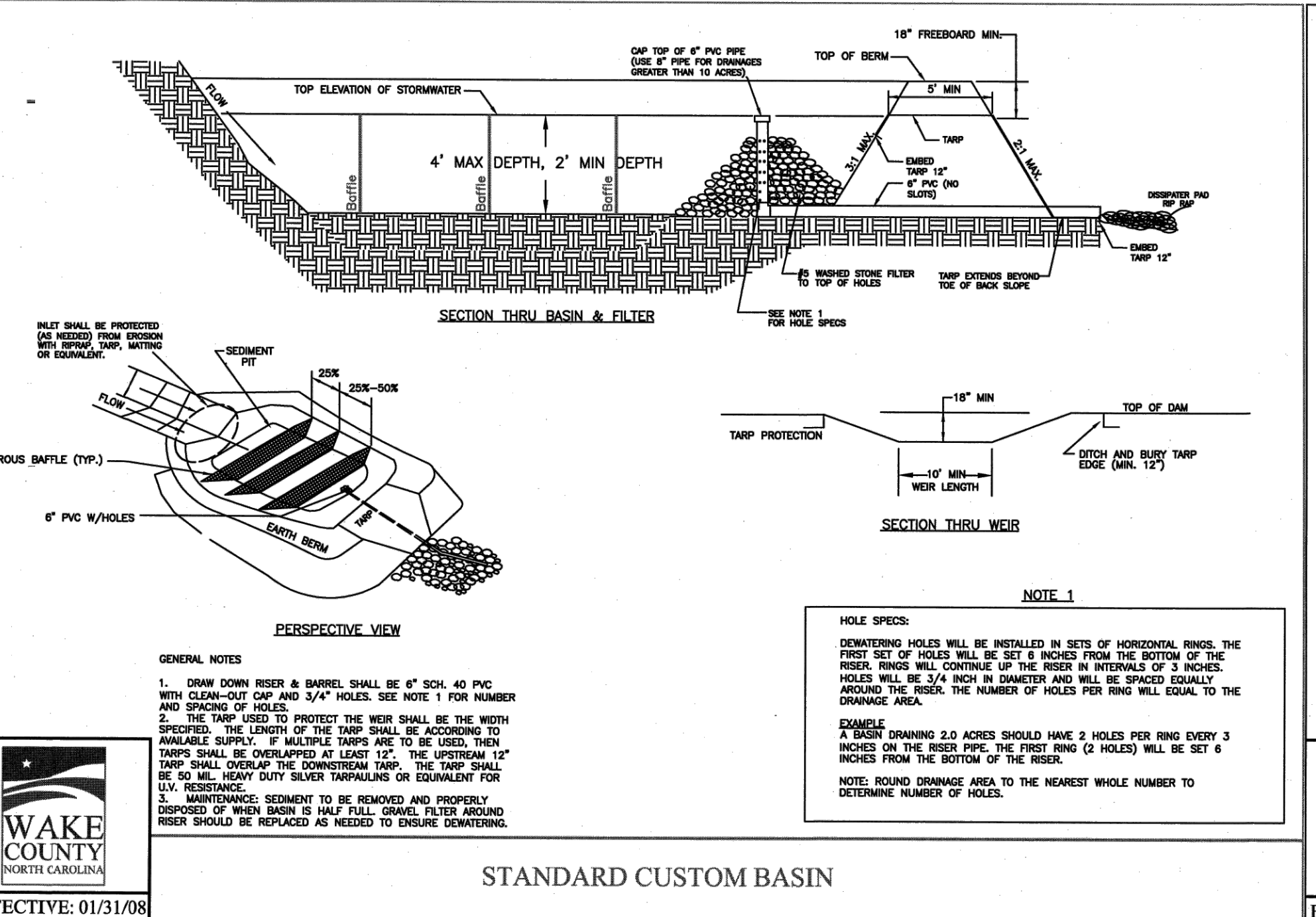
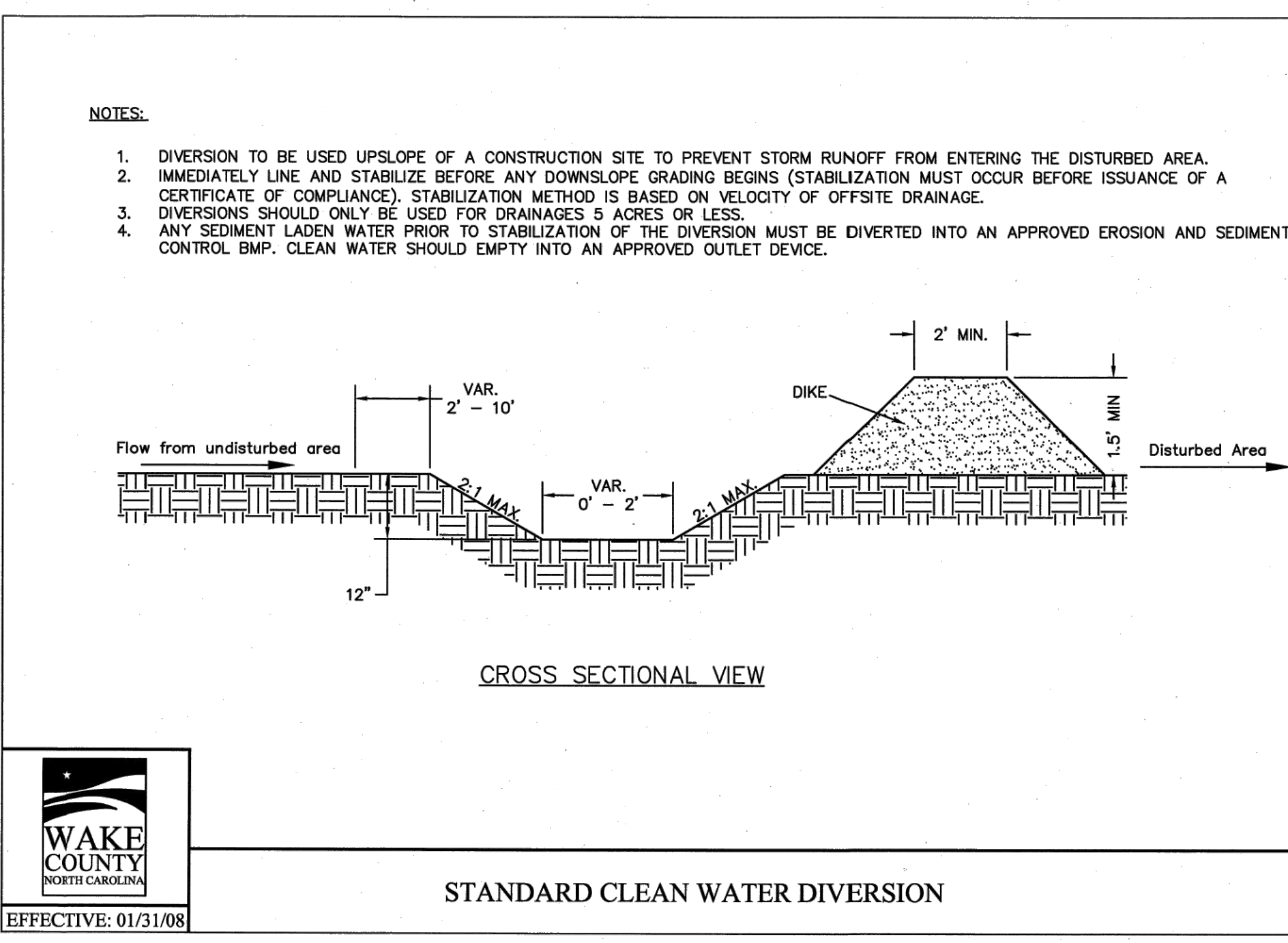
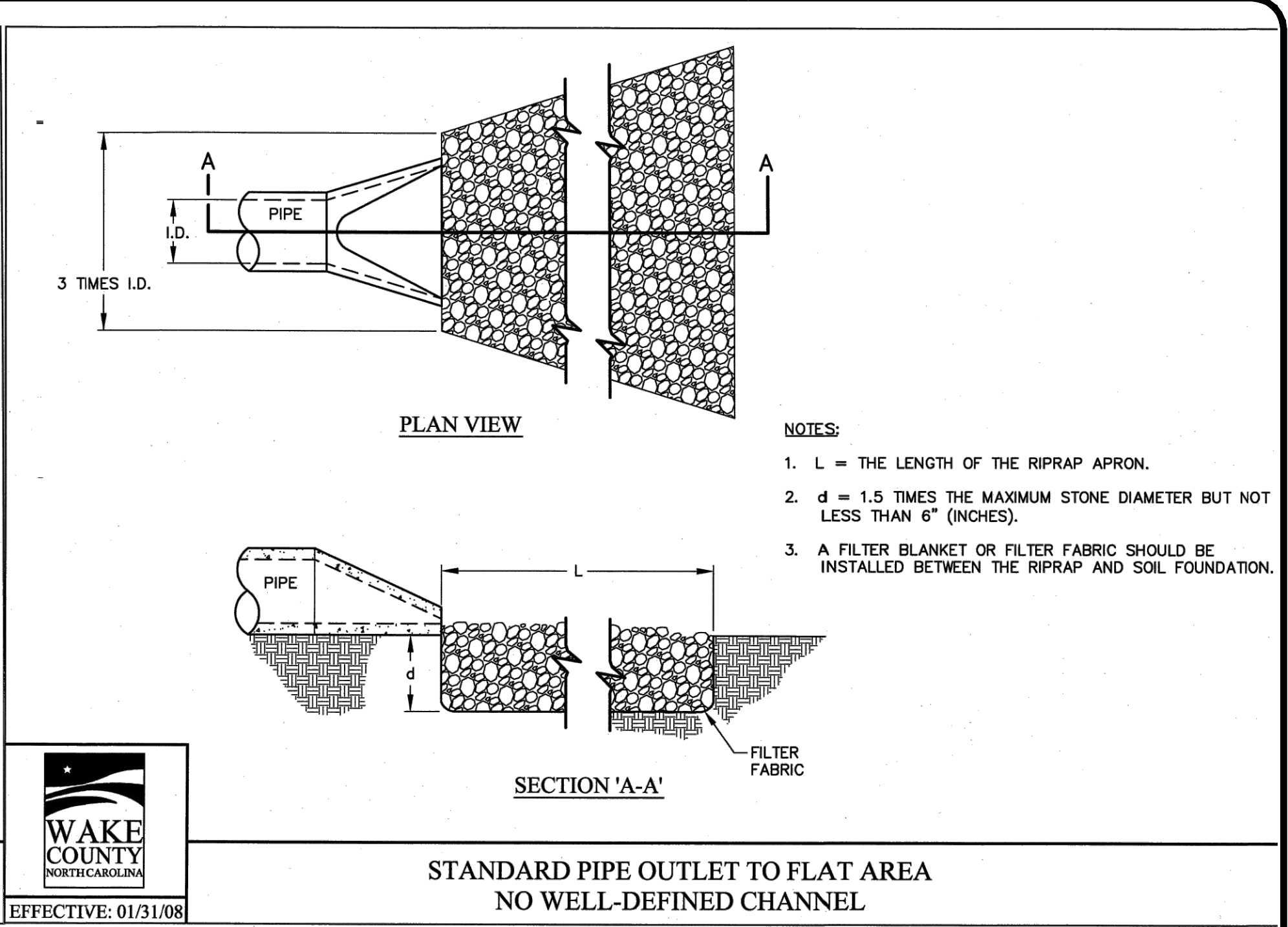
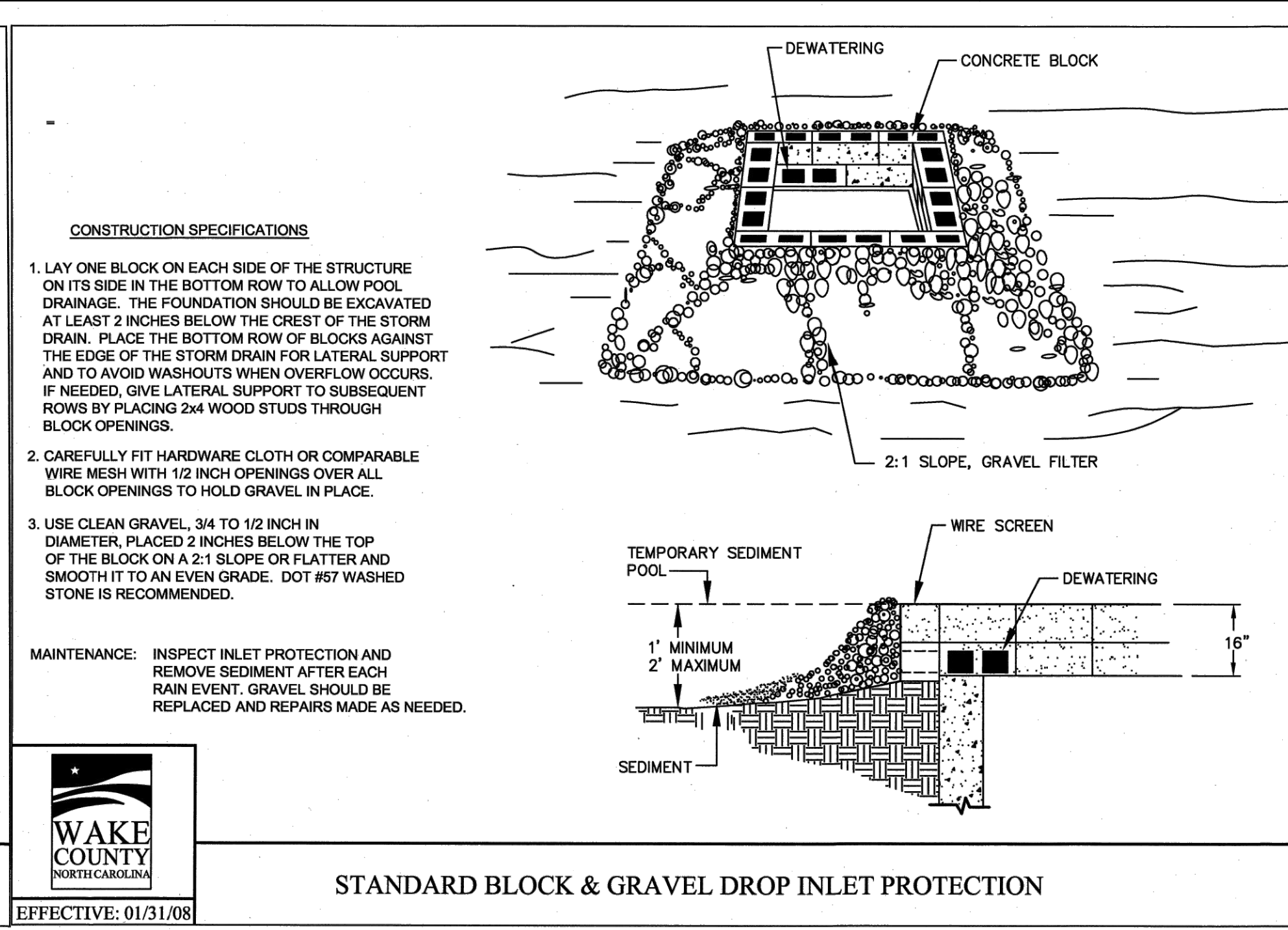
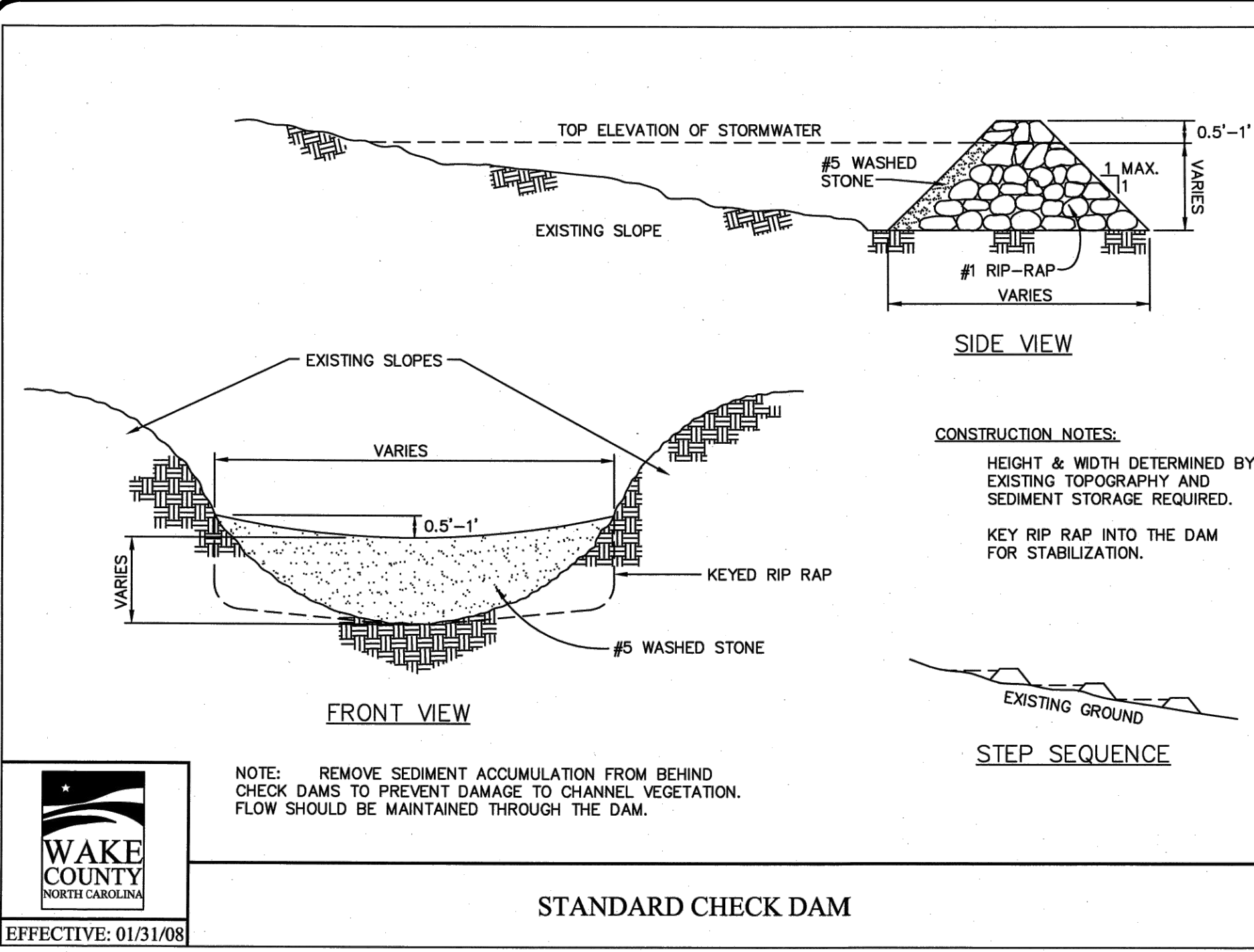
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CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

EROSION CONTROL DETAILS

PROJECT NO: 19-0103
DRAWING NAME: 19-0103_d.dwg
SHEET NO: D-2



| NO. | DATE | REVISIONS | BY |
|-----|------------|-----------|----|
| 7 | 09/07/2022 | DAS | |
| 6 | 06/07/2022 | DAS | |
| 5 | 05/03/2022 | DAS | |
| 4 | 04/06/2022 | DAS | |
| 3 | 03/24/2022 | DAS | |
| 2 | 02/14/2022 | DAS | |
| 1 | 01/07/2021 | DAS | |

PROJECT INFORMATION

PROJECT NO. 19-0103
DRAWING NAME: 19-0103_d.dwg
SHEET NO. D-3

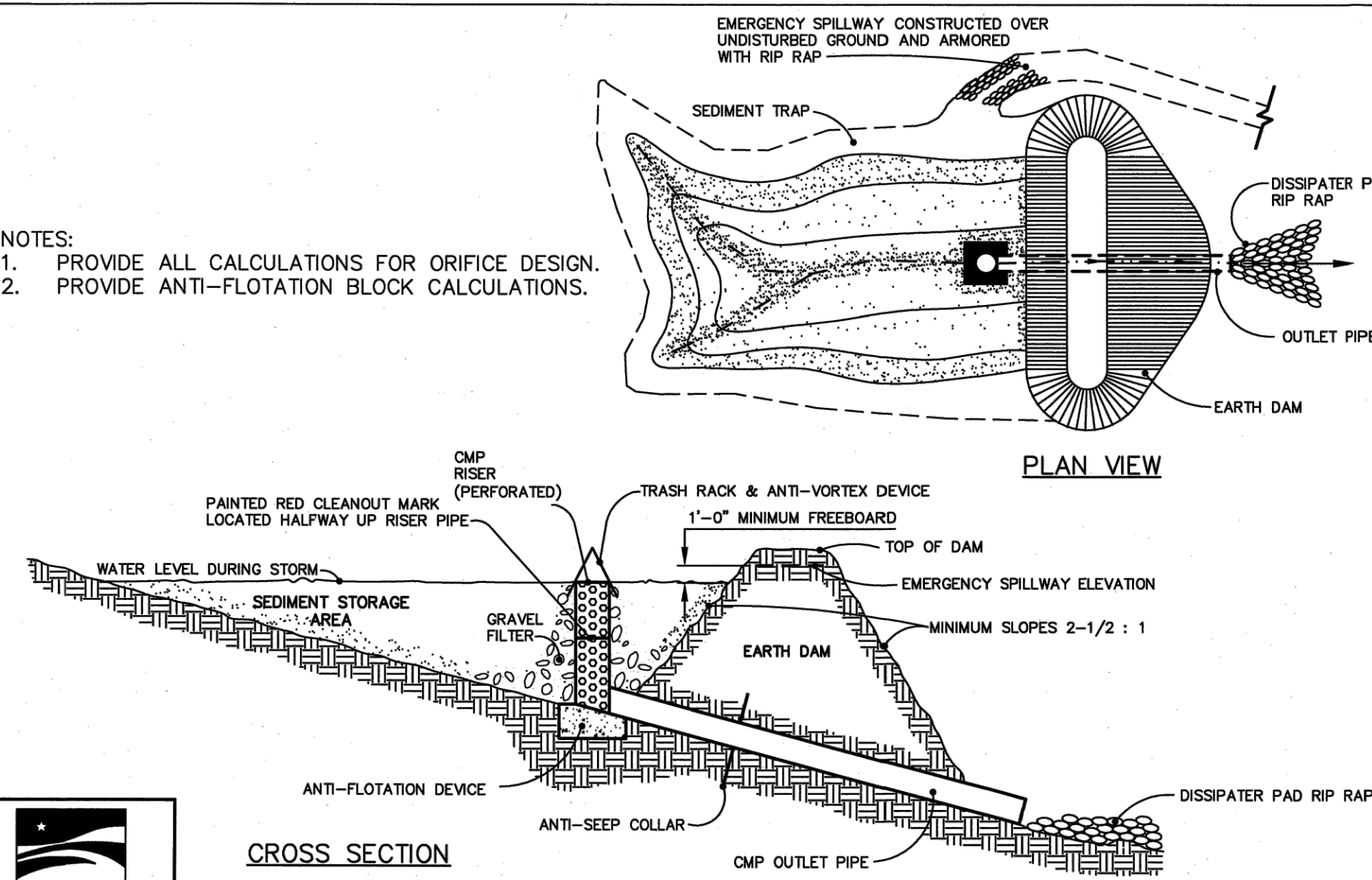
CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

EROSION CONTROL DETAILS

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PROFESSIONAL SEAL
ALEXANDER M. GOSSETT
09/01/2022

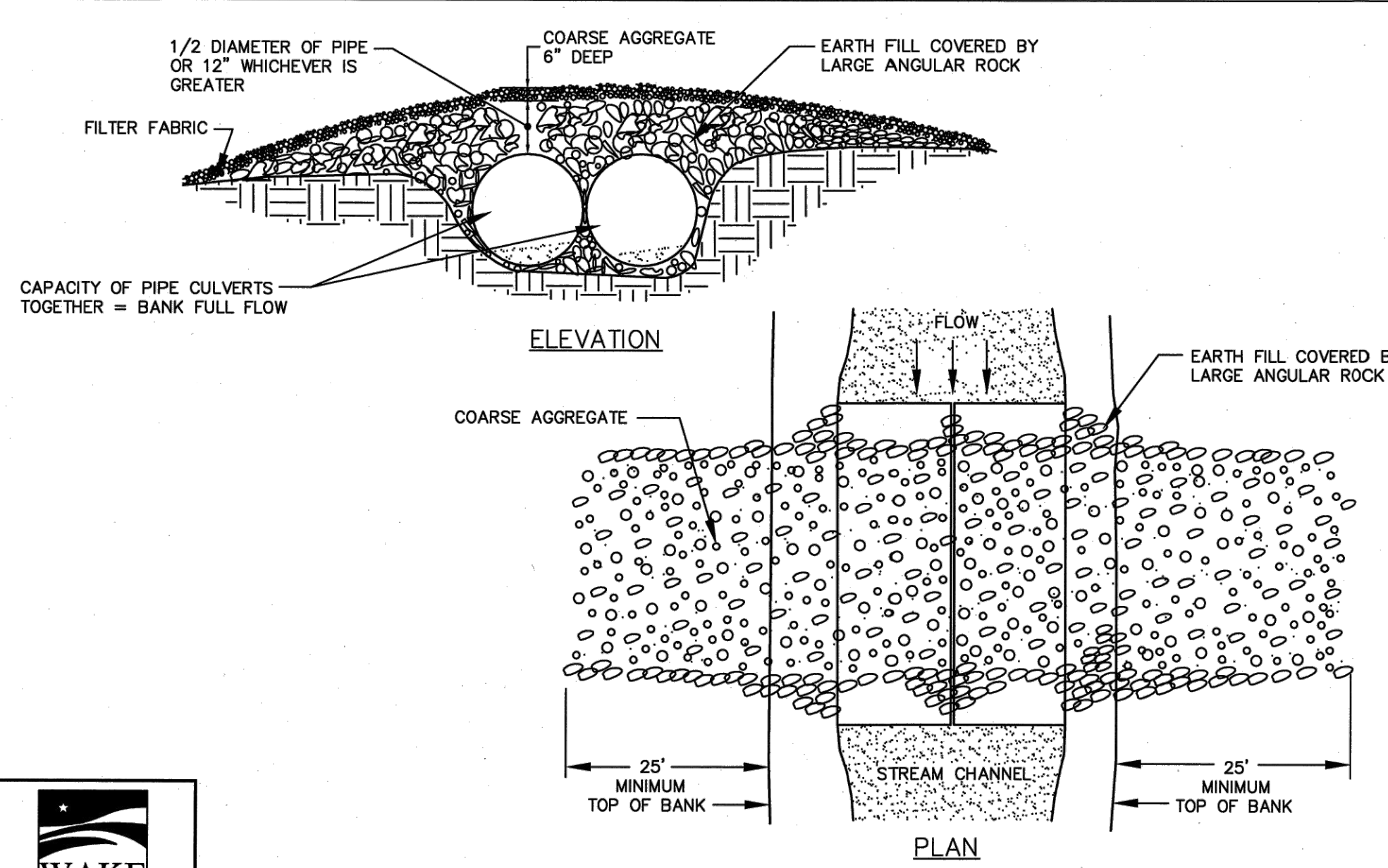
- NOTES:
 1. PROVIDE ALL CALCULATIONS FOR ORIFICE DESIGN.
 2. PROVIDE ANTI-FLOTATION BLOCK CALCULATIONS.



STANDARD RISER-BARREL SEDIMENT BASIN



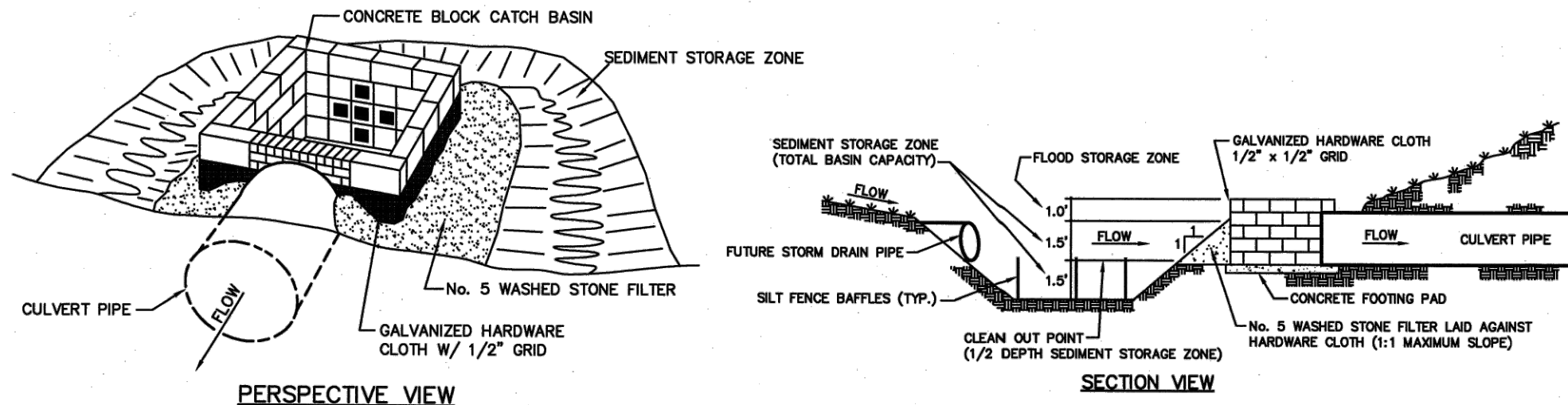
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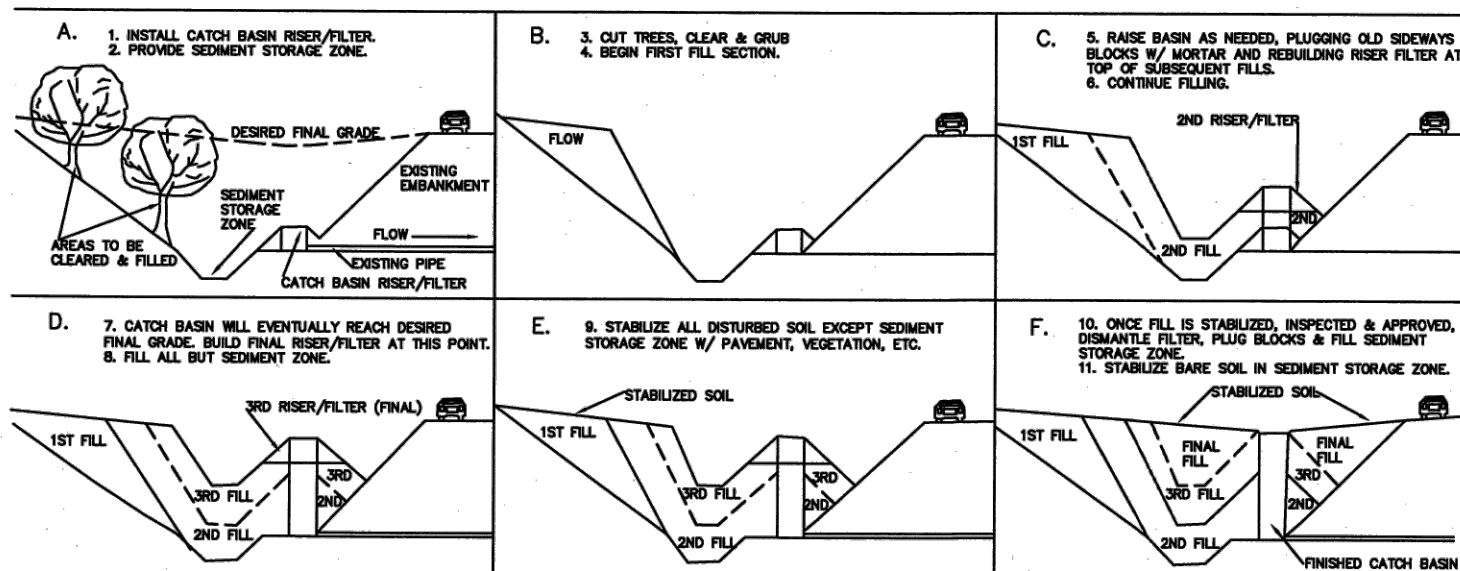
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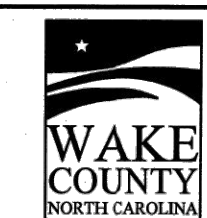
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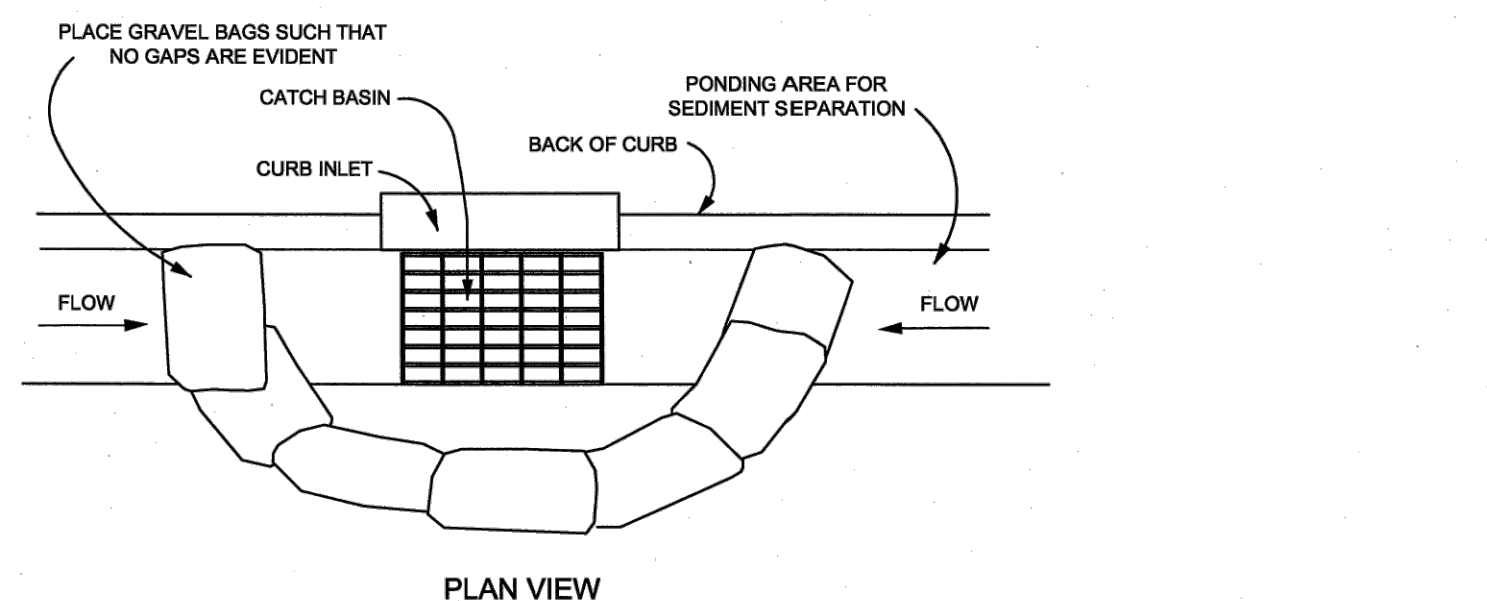
USE OF CATCH BASIN RISER/FILTER ON FILL SITES



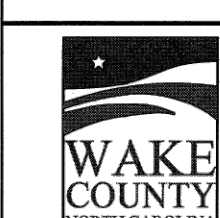
STANDARD CATCH BASIN RISER/FILTER



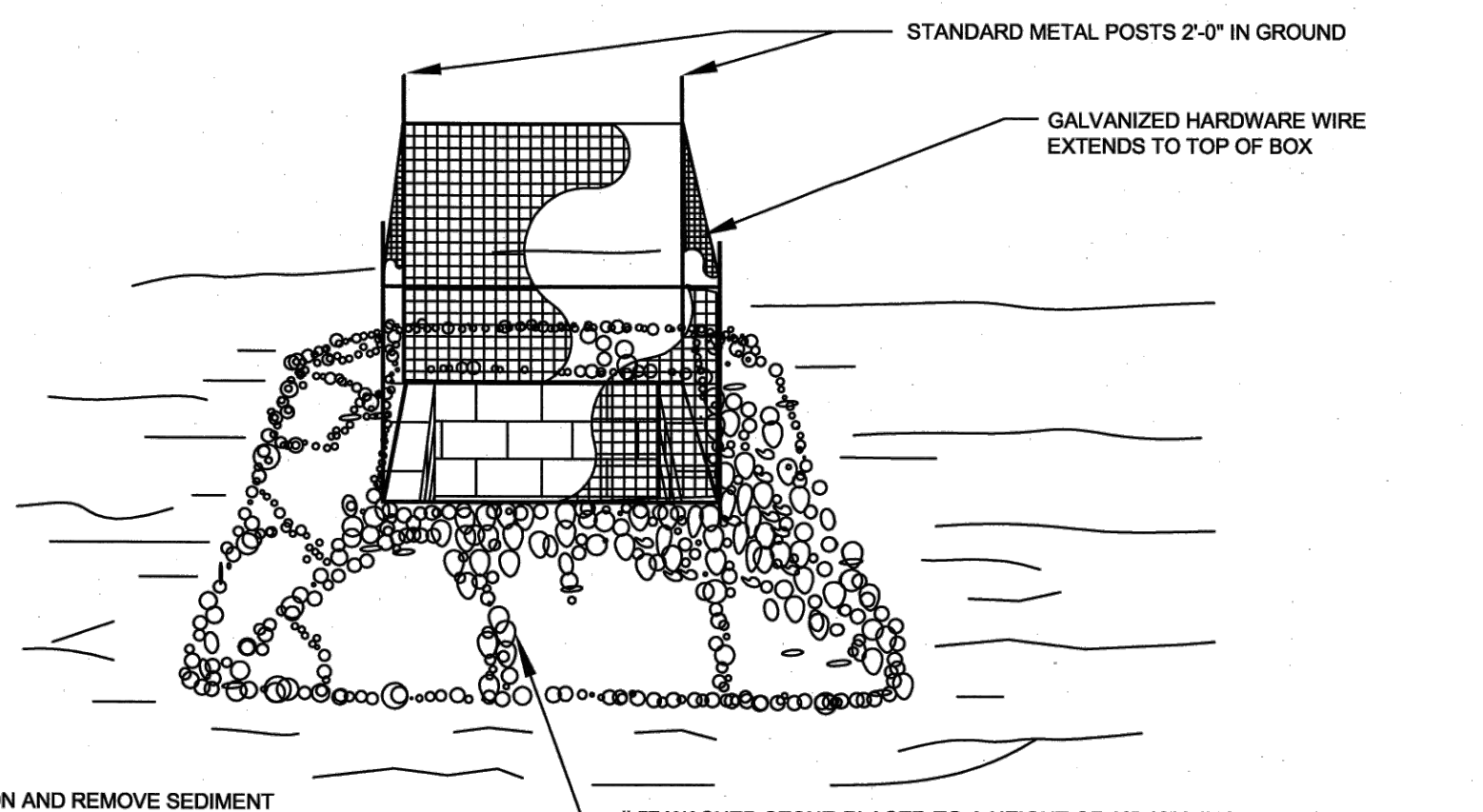
EFFECTIVE: 01/31/08



STANDARD GRAVEL BAG CURB INLET PROTECTION



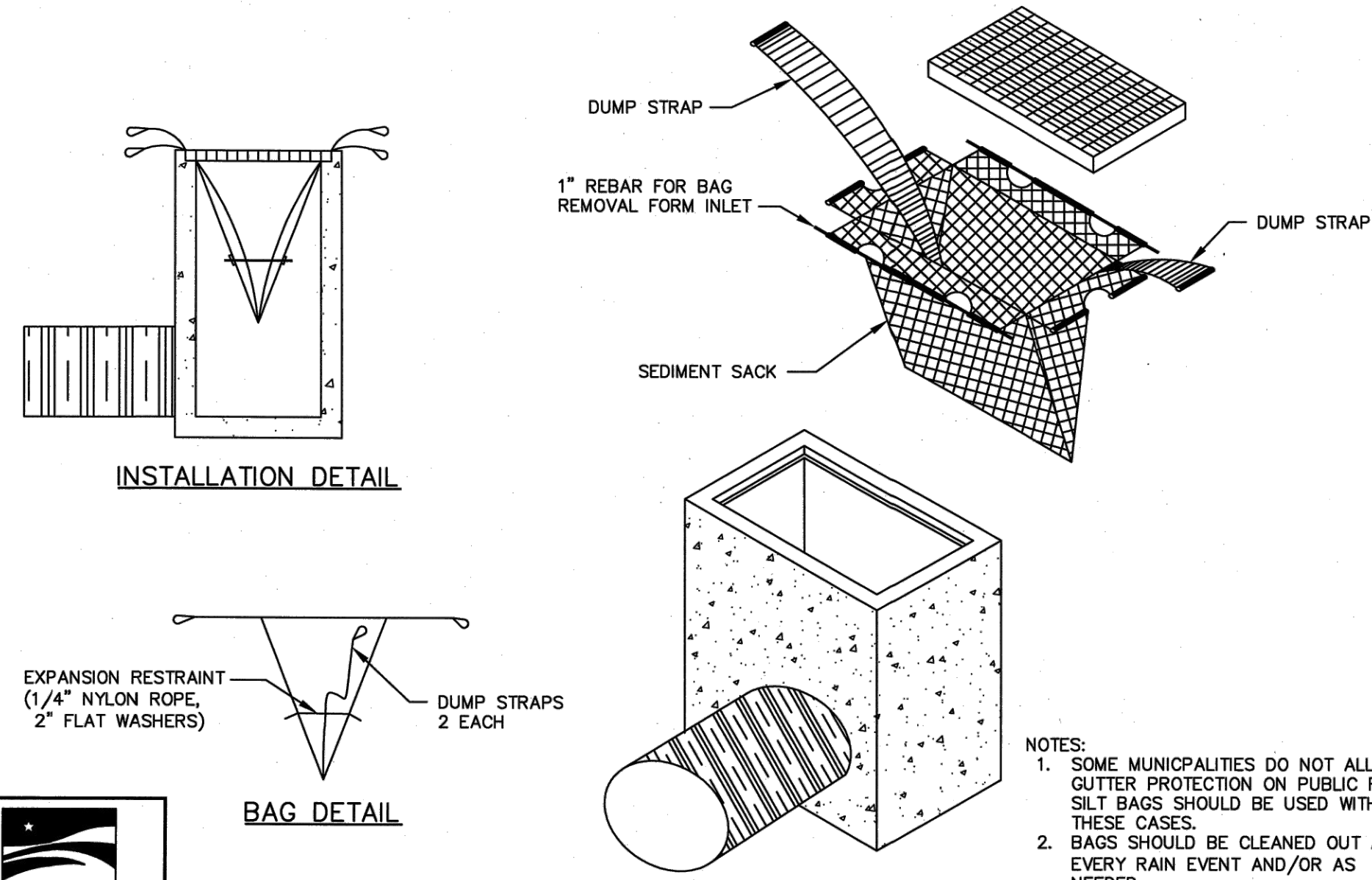
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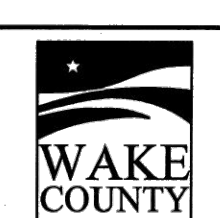
STANDARD GRAVEL YARD INLET PROTECTION



EFFECTIVE: 01/31/08



STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

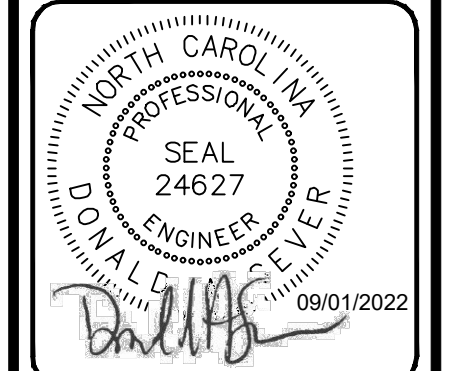


EFFECTIVE: 01/31/08

| NO. | DATE | BY | REVISIONS |
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| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/25/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2021 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/17/2020 |

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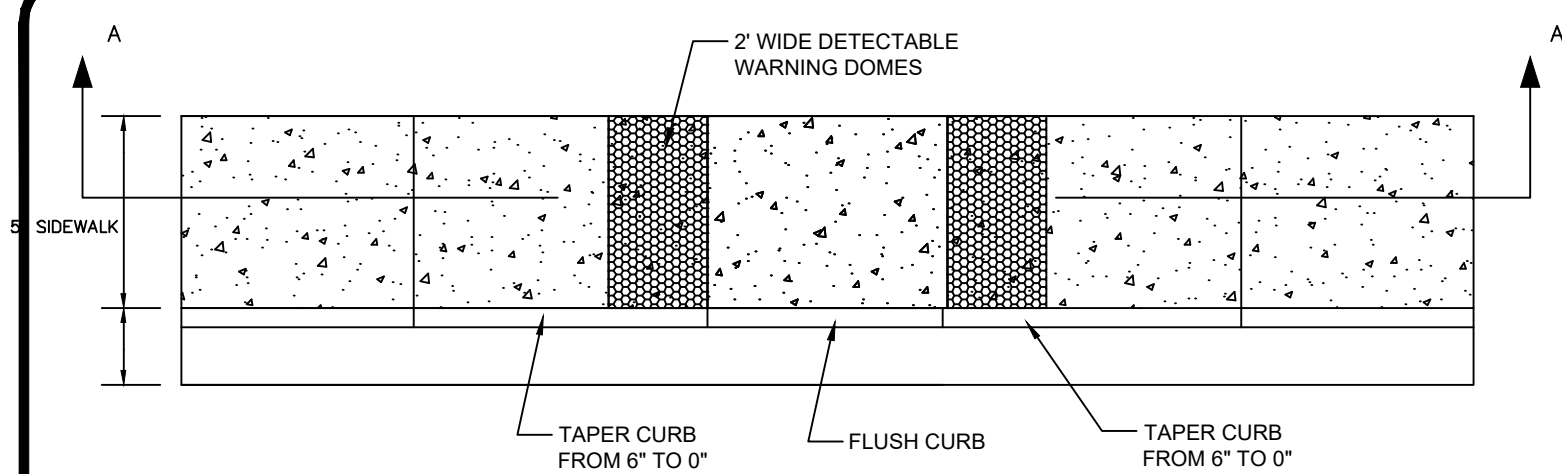
PROJECT ENGINEER/ARCHITECT
 AMI.ALEXMANGOT@SUMMITDE.NET
 PROJECT MANAGER
 DAS/DON.SEVIER@SUMMITDE.NET
 DRAWN BY
 JALIMMY.ASHLEY@SUMMITDE.NET
 FIRST ISSUE DATE
 11-01-2021



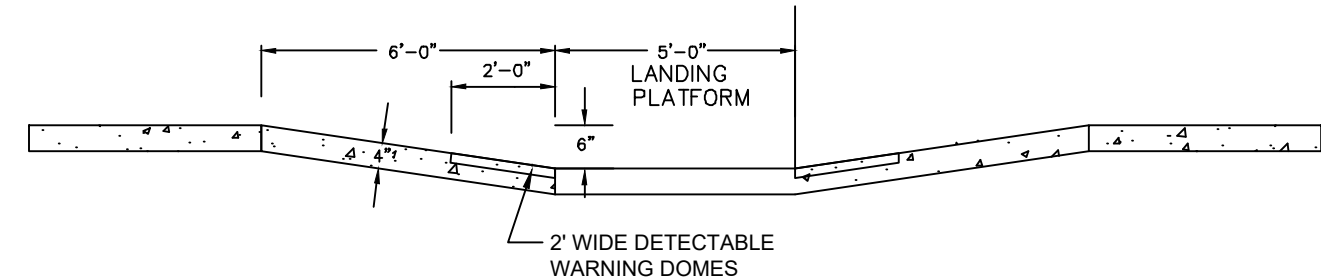
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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

EROSION CONTROL DETAILS
 PROJECT NO.
 19-0103
 DRAWING NAME:
 19-0103_d.dwg
 SHEET NO.
 D-4

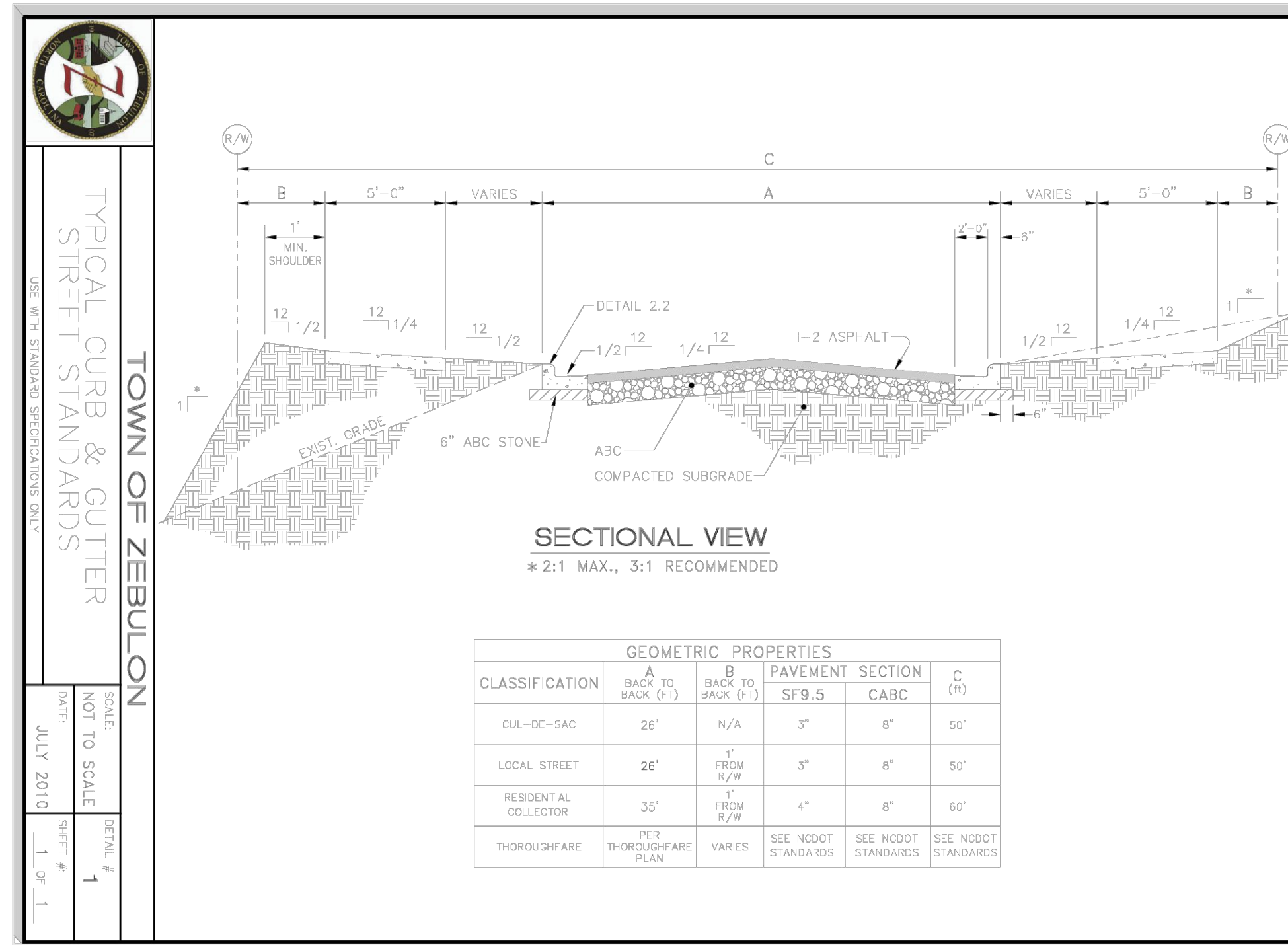


HANDICAP RAMP PLAN VIEW
(NOT TO SCALE)



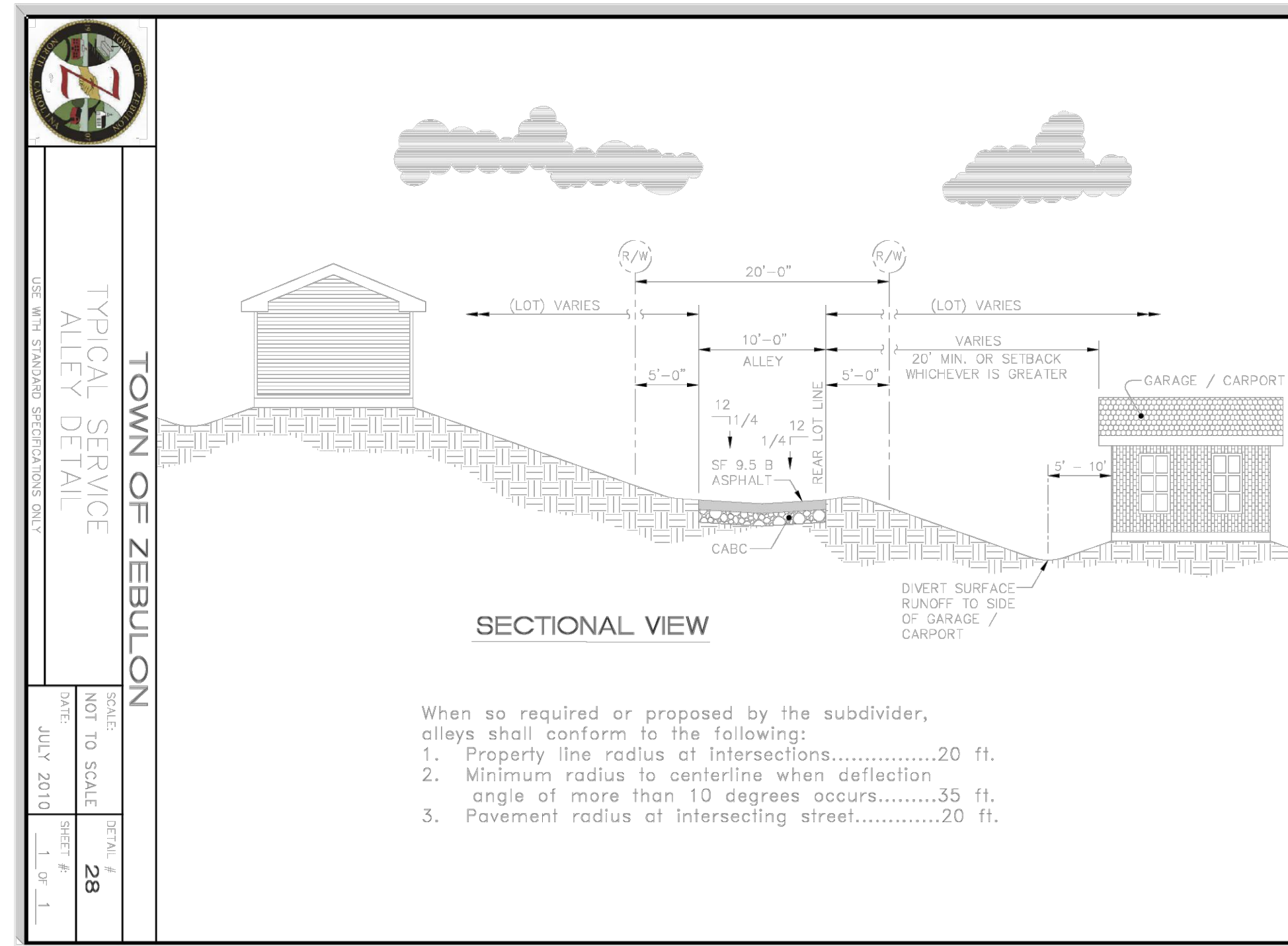
HANDICAP RAMP SECTION A-A
(NOT TO SCALE)

NOTE: CONTRACTOR TO USE THIS DETAIL WHERE SIDEWALK IS ADJACENT TO CURB AND GUTTER



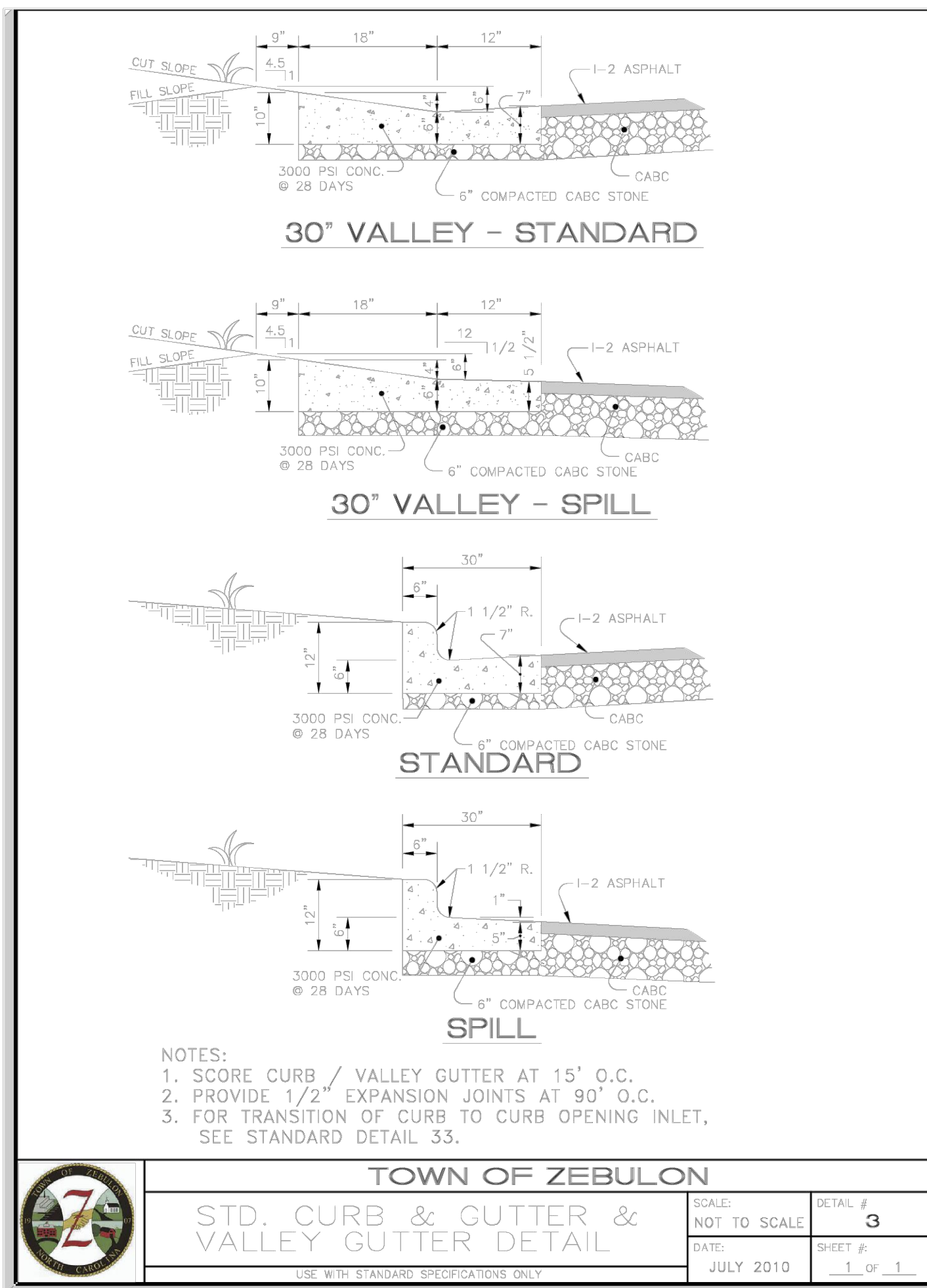
GEOMETRIC PROPERTIES

| CLASSIFICATION | A BACK TO BACK (FT) | B BACK TO BACK (FT) | PAVEMENT SECTION SF 9.5 | C (ft) |
|-----------------------|------------------------|------------------------|----------------------------|----------------------|
| CUL-DE-SAC | 26' | N/A | 3" | 8" |
| LOCAL STREET | 26' | 1' FROM R/W | 3" | 8" |
| RESIDENTIAL COLLECTOR | 35' | FROM R/W | 4" | 8" |
| THOROUGHFARE | PER THOROUGHFARE PLAN | VARIES | SEE NC DOT STANDARDS | SEE NC DOT STANDARDS |



When so required or proposed by the subdivider, alleys shall conform to the following:

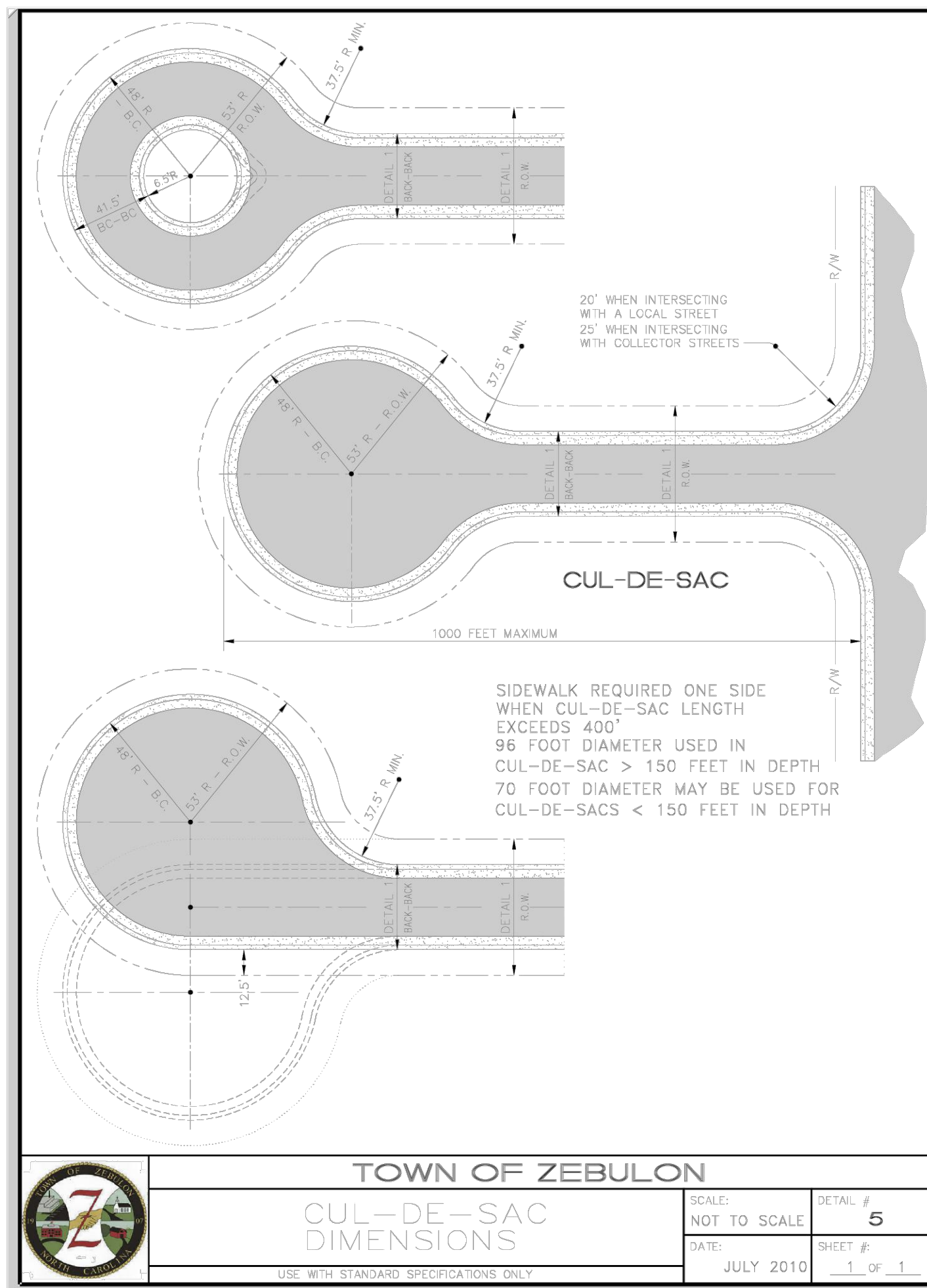
1. Property line radius at intersections.....20 ft.
2. Minimum radius to centerline when deflection angle of more than 10 degrees occurs.....35 ft.
3. Pavement radius at intersecting street.....20 ft.



NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15" O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90" O.C.
3. FOR TRANSITION OF CURB TO CURB OPENING INLET, SEE STANDARD DETAIL 33.

TOWN OF ZEBULON
STD. CURB & GUTTER & VALLEY GUTTER DETAIL

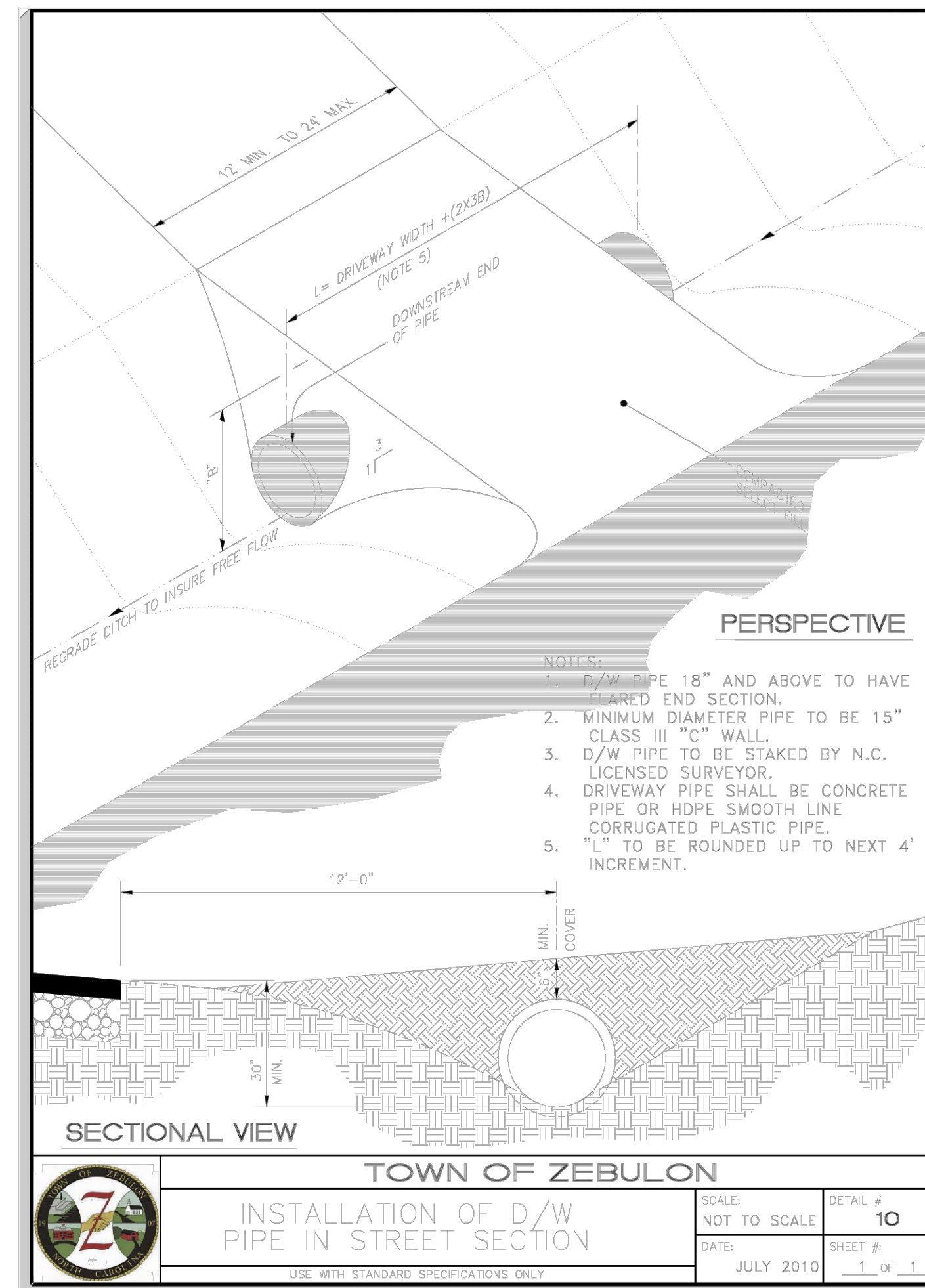
| | | | |
|--------|--------------|----------|--------|
| SCALE: | NOT TO SCALE | DETAIL # | 3 |
| DATE: | JULY 2010 | SHEET # | 1 OF 1 |



NOTES:
1. SIDEWALK REQUIRED ONE SIDE WHEN CUL-DE-SAC LENGTH EXCEEDS 400'
2. 96 FOOT DIAMETER USED IN CUL-DE-SAC > 150 FEET IN DEPTH
3. 70 FOOT DIAMETER MAY BE USED FOR CUL-DE-SACS < 150 FEET IN DEPTH

TOWN OF ZEBULON
CUL-DE-SAC DIMENSIONS

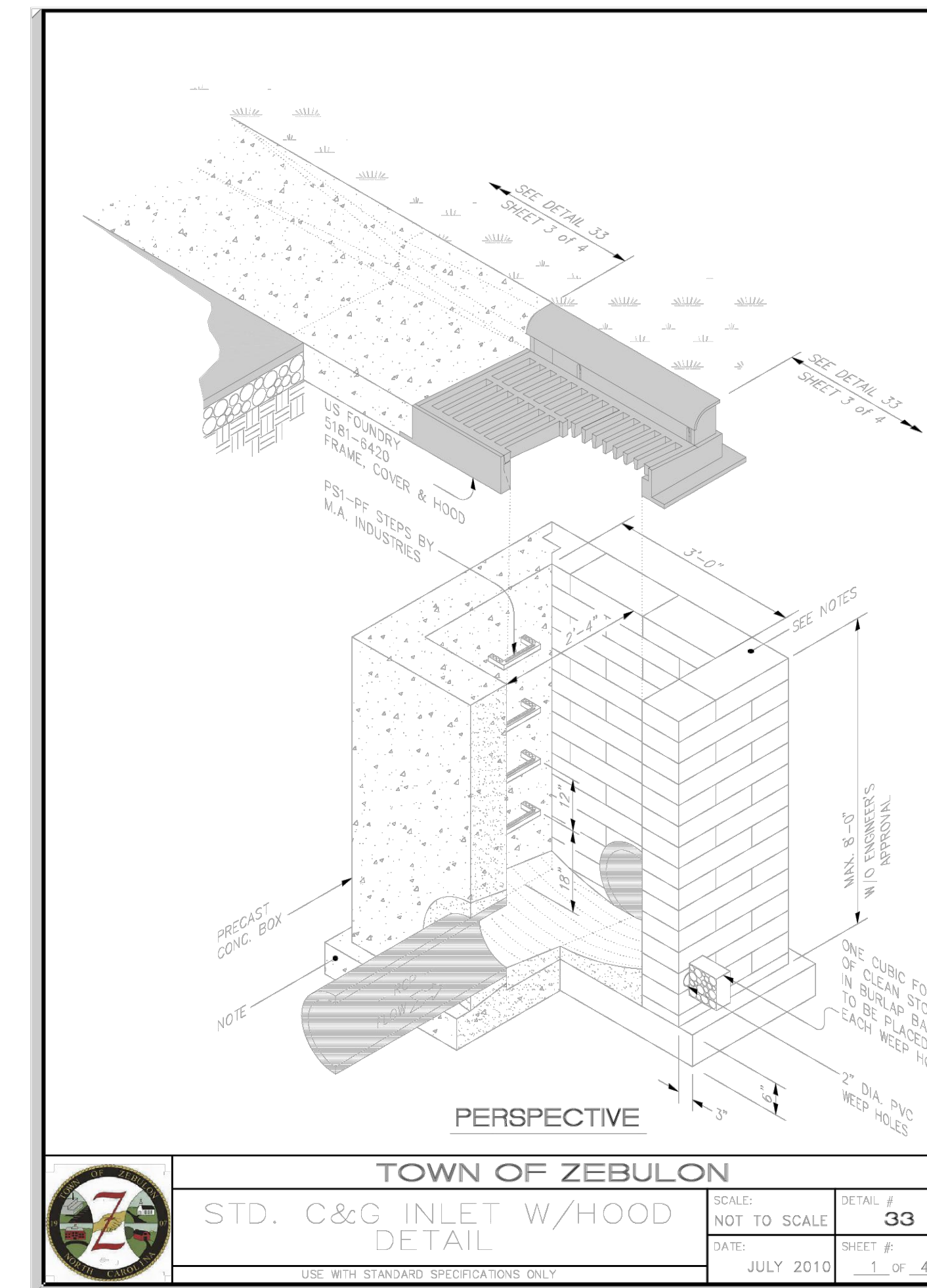
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| SCALE: | NOT TO SCALE | DETAIL # | 5 |
| DATE: | JULY 2010 | SHEET # | 1 OF 1 |



NOTES:
1. D/W PIPE 18" AND ABOVE TO HAVE FLARED END SECTION.
2. MINIMUM DIAMETER PIPE TO BE 15" CLASS III "C" WALL.
3. D/W PIPE TO BE STAKED BY N.C. LICENSED SURVEYOR.
4. DRIVEWAY PIPE SHALL BE CONCRETE PIPE OR HDPE SMOOTH LINE CORRUGATED PLASTIC PIPE.
5. "L" TO BE ROUNDED UP TO NEXT 4' INCREMENT.

TOWN OF ZEBULON
INSTALLATION OF D/W PIPE IN STREET SECTION

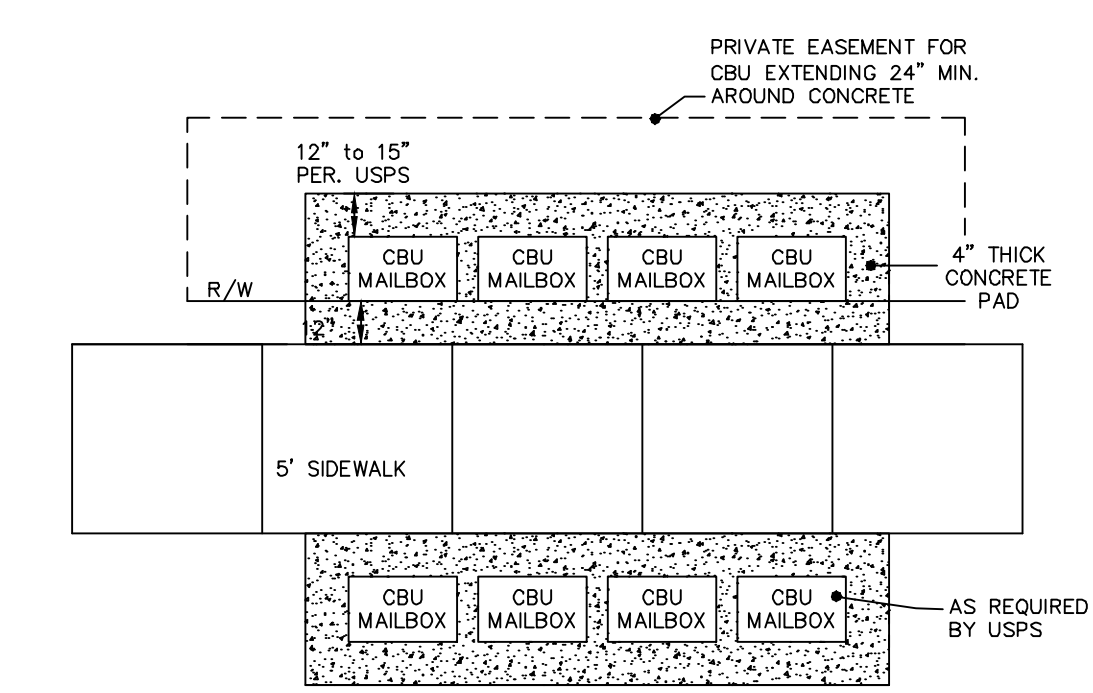
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| SCALE: | NOT TO SCALE | DETAIL # | 10 |
| DATE: | JULY 2010 | SHEET # | 1 OF 1 |



NOTES:
1. PRECAST CONG. BOX
2. PS-100 STEPS BY M.A. INDUSTRIES
3. MIN. 18" G'S W/ S. ENGINEER'S APPROVAL
4. ONE CUBIC FOOT OF CLEAN STONE IN CURB LAP BAG TO BE PLACED AT EACH WEEP HOLE
5. 2" DIA. PVC WEEP HOLES
6. SEE DETAIL 33 SHEET 3 OF 4
7. SEE DETAIL 33 SHEET 3 OF 4

TOWN OF ZEBULON
STD. C&G INLET W/HOOD DETAIL

| | | | |
|--------|--------------|----------|--------|
| SCALE: | NOT TO SCALE | DETAIL # | 33 |
| DATE: | JULY 2010 | SHEET # | 1 OF 4 |



NOTES:
THIS IS A TEMPORARY DETAIL FOR MAIL KIOSK UNTIL KIOSK SHELTER IS CONSTRUCTED AS NOTED IN PD DOCUMENT

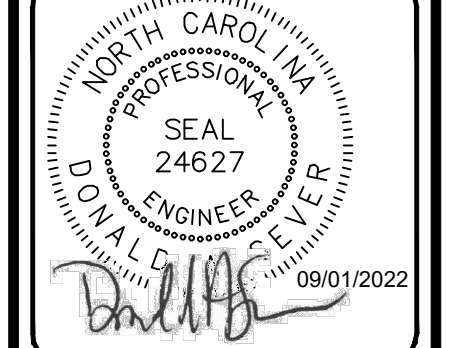
1. CBU SHALL CONTAIN NO MORE THAN 26 MAIL RECEPTACLES.
2. LOCATE CBU ON PROPERTY LINE OR NEAR COMMON AREAS, IF POSSIBLE.
3. MAXIMUM HEIGHT OF CBU SHALL BE 62 INCHES.
4. CBU SHALL NOT BE LOCATED NEAR UTILITY LINES, WATER METERS, OR CLEANOUTS.
5. ACCESS TO CBU BY RESIDENTS SHALL BE BY SIDEWALK SIDE ONLY.

MAIL KIOSK DETAIL
NOT TO SCALE

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|-----|------------|-----|--|
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PROJECT MANAGER
DAS/DON SEEVERS@SUMMITDE.NET
DESIGNER
AM/ALEXMANGOT@SUMMITDE.NET
PROJECT MANAGER
DAS/DON SEEVERS@SUMMITDE.NET
DRAWN BY
JAL/JIMMY ASHLEY@SUMMITDE.NET
FIRST ISSUE DATE
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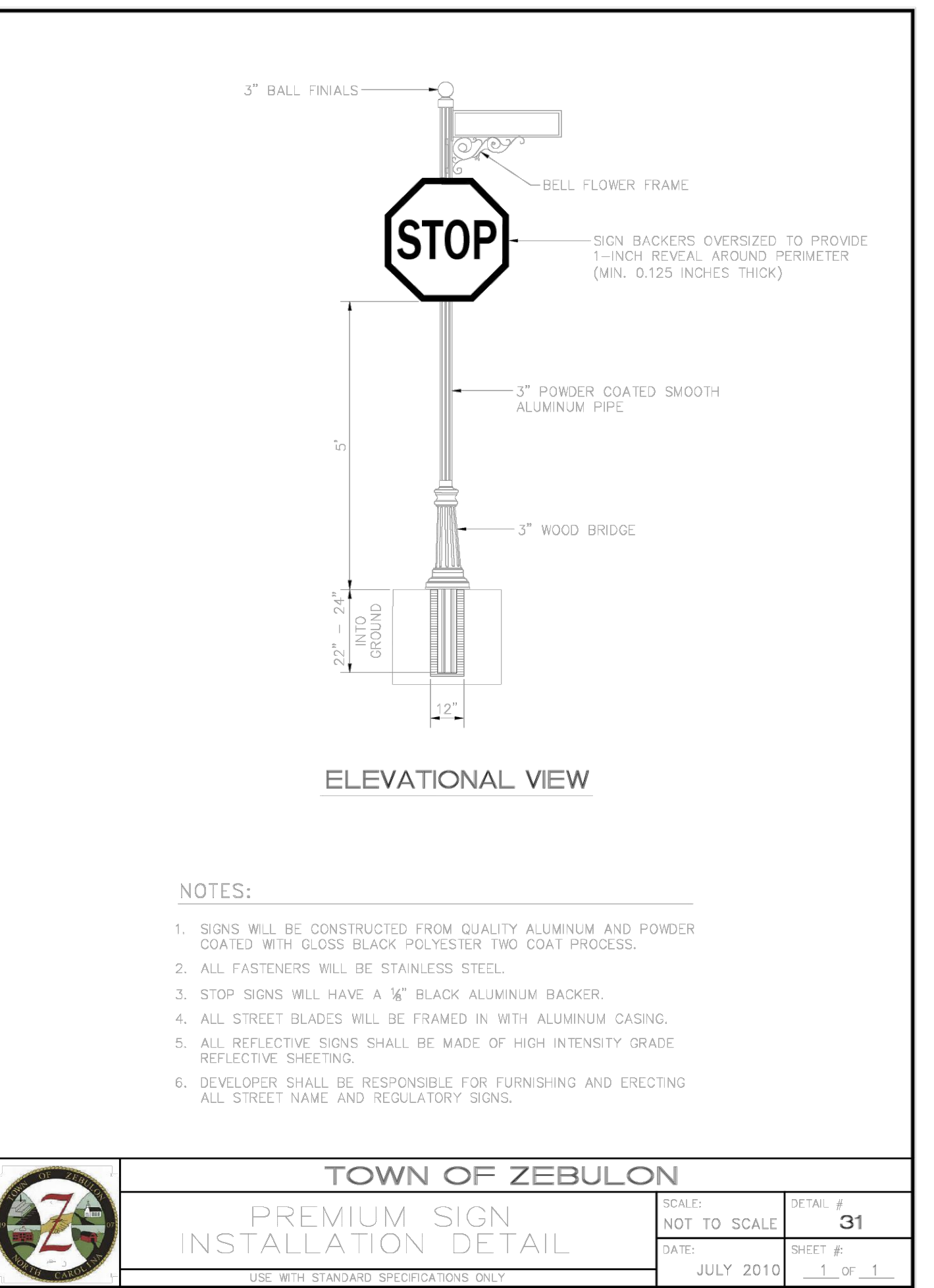
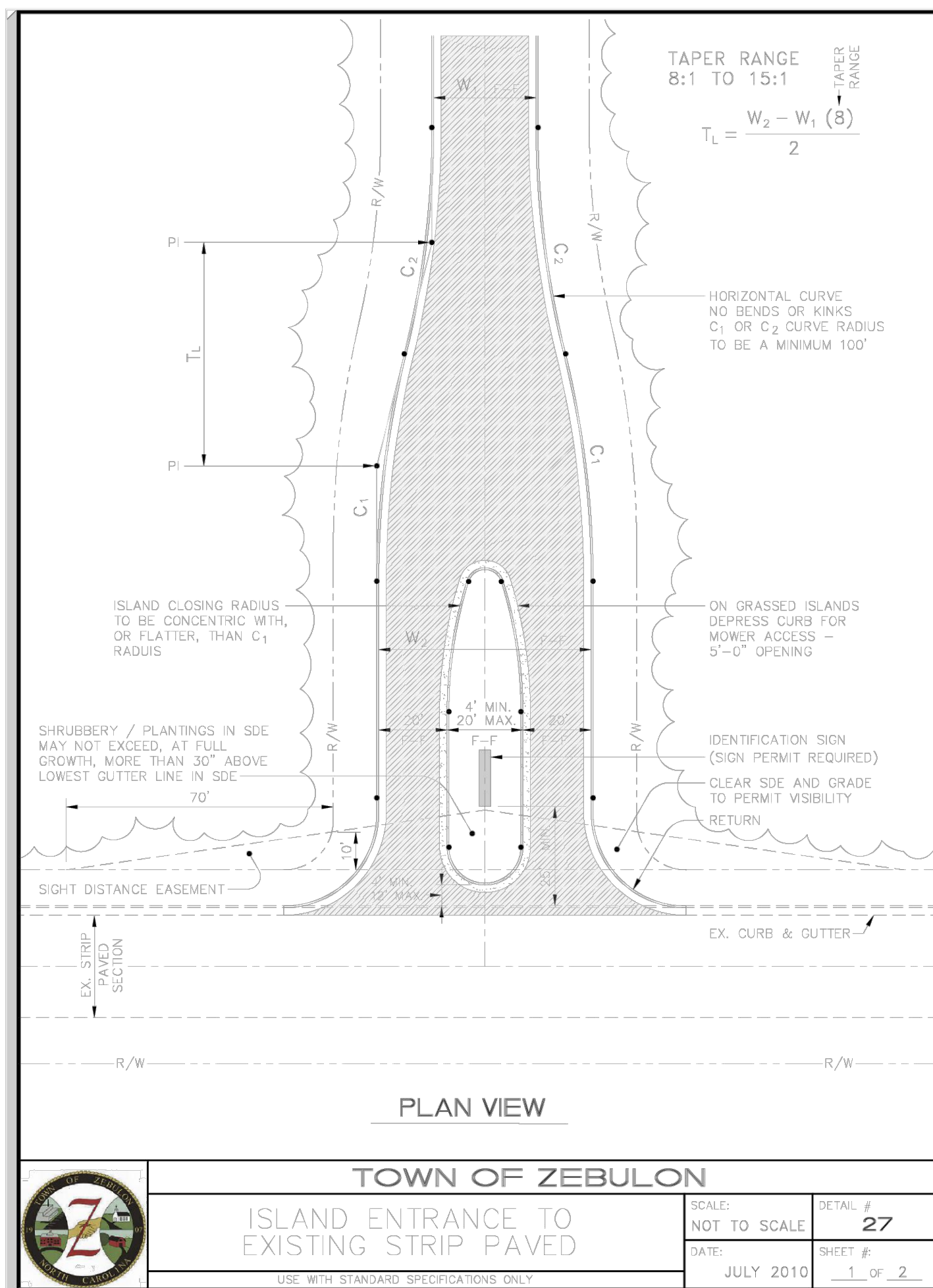
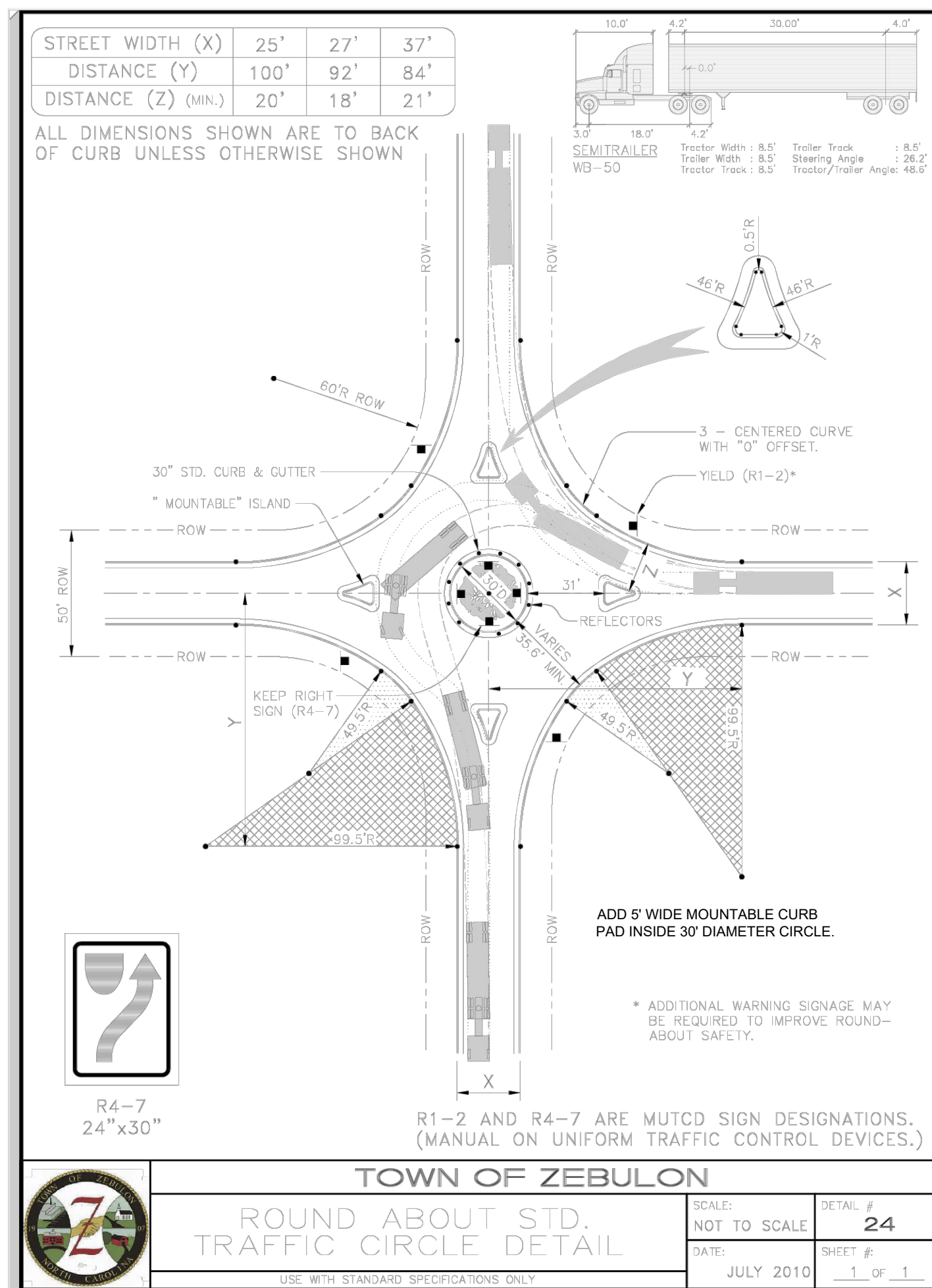
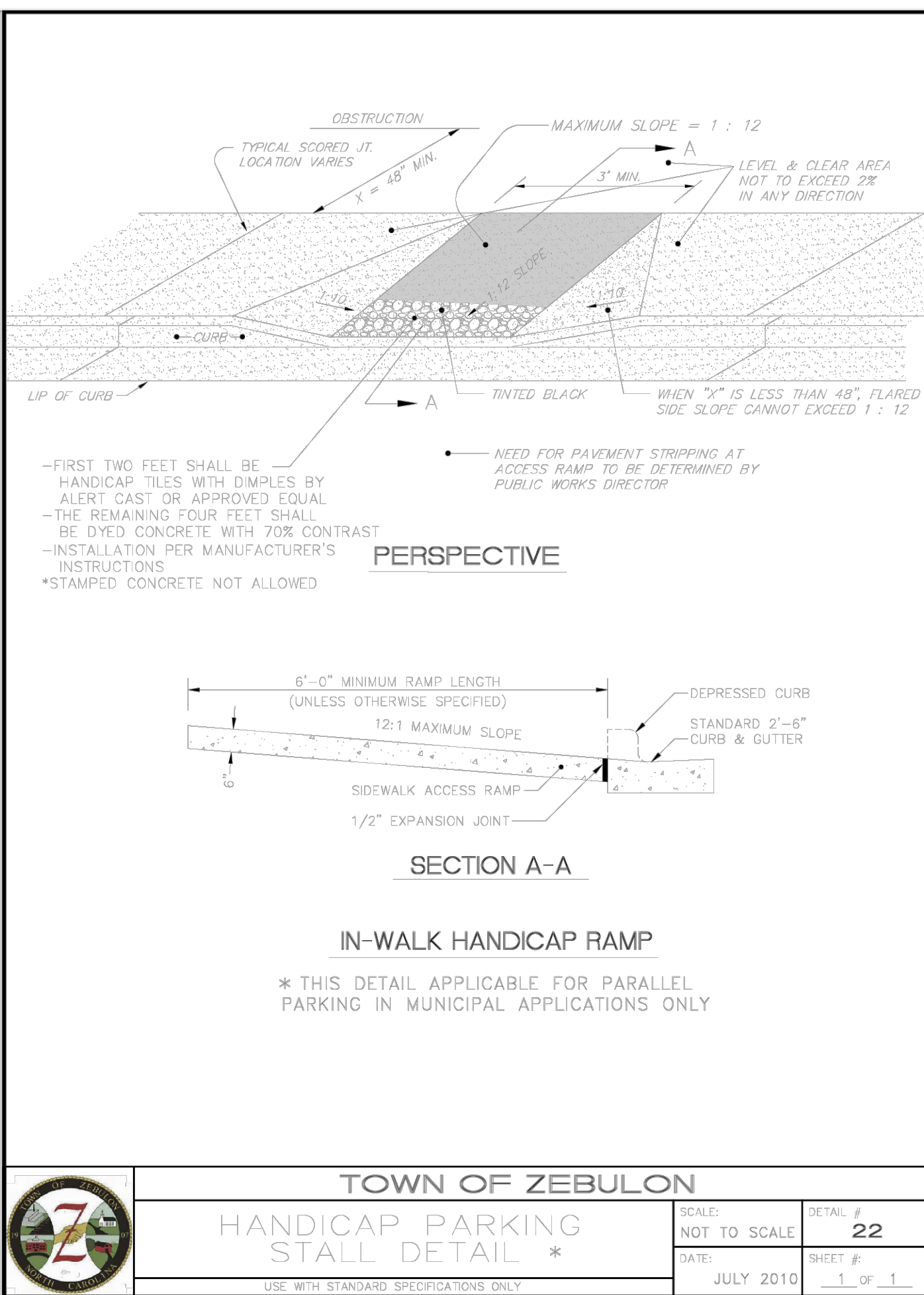
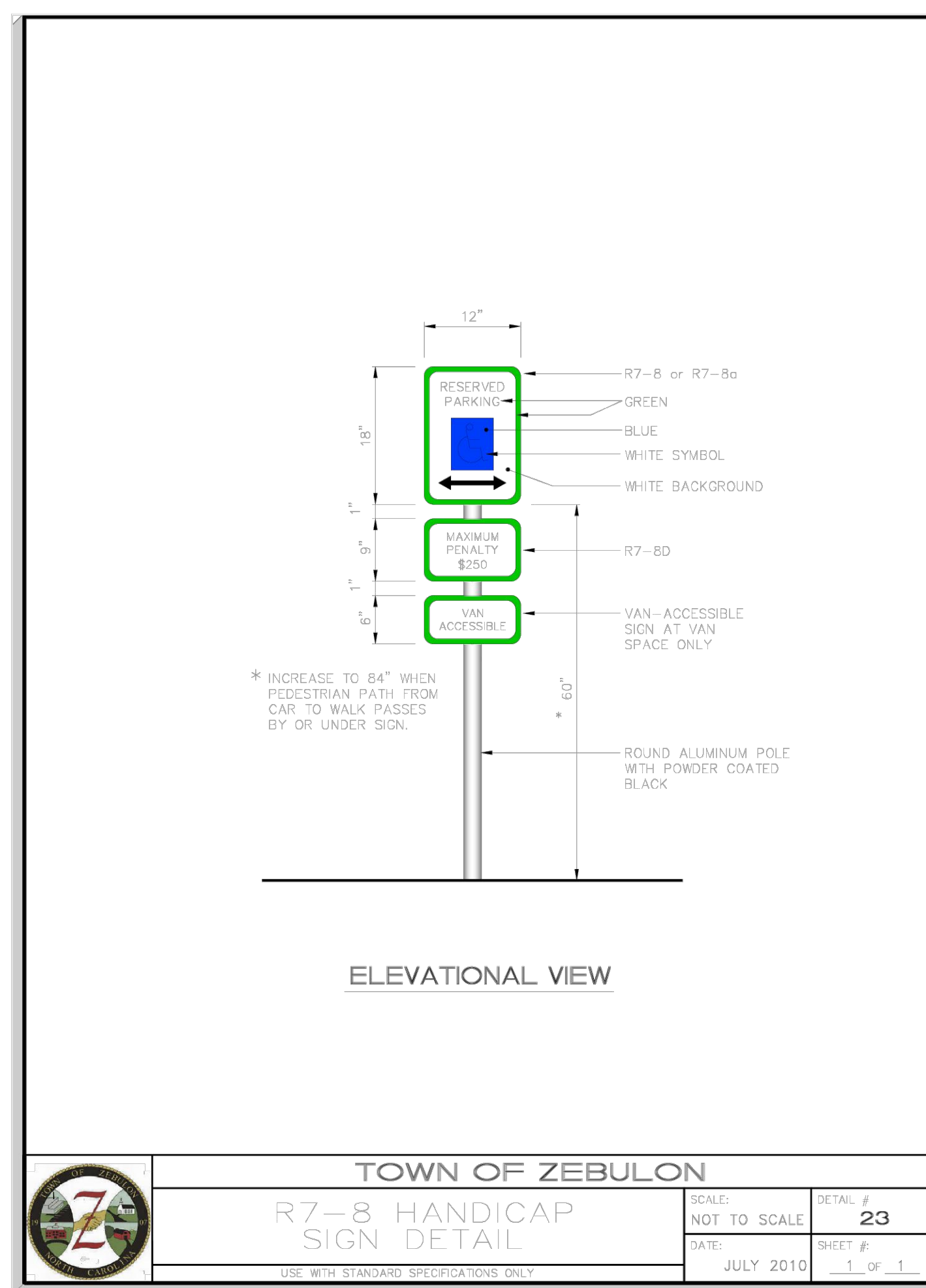
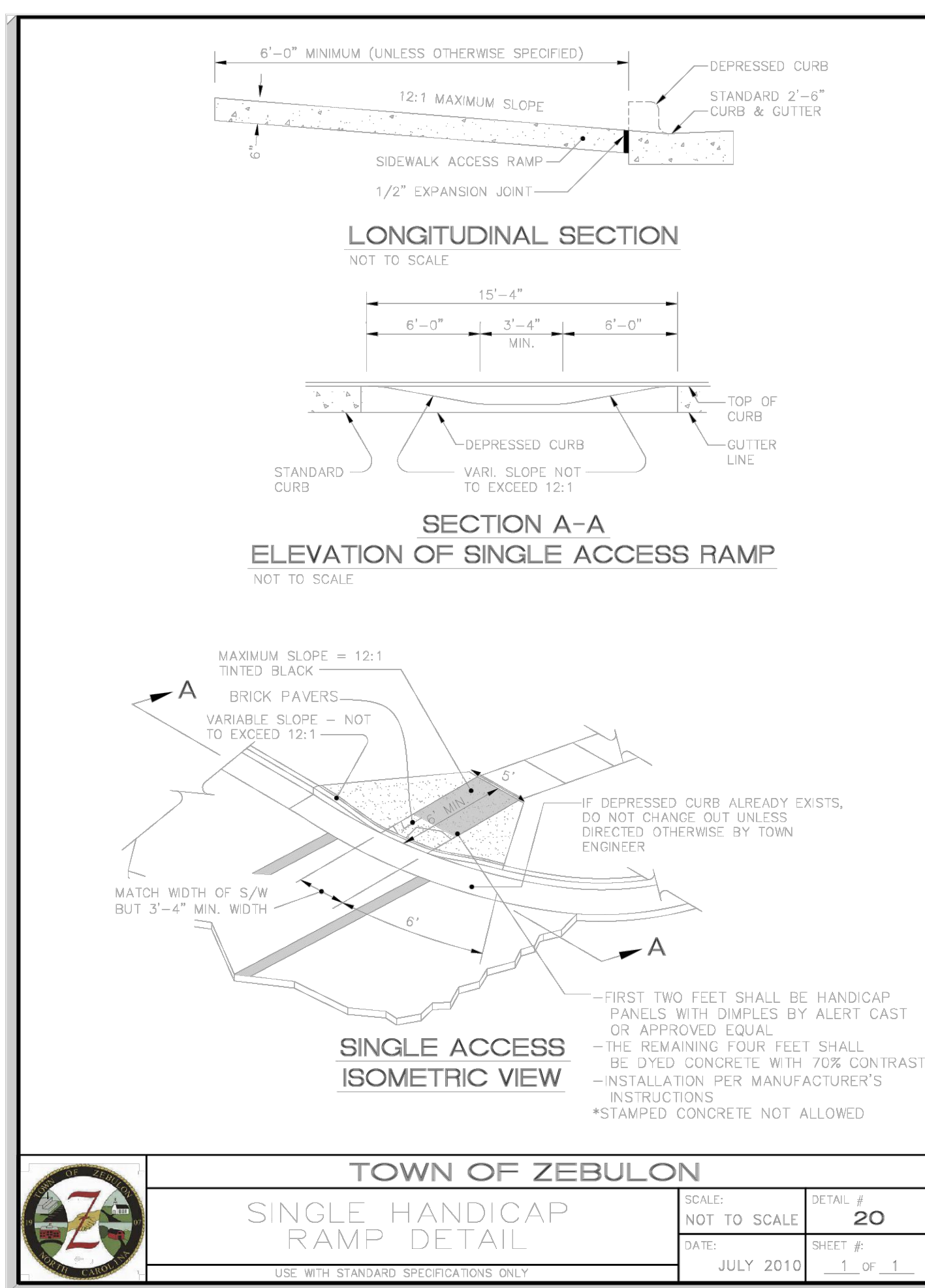
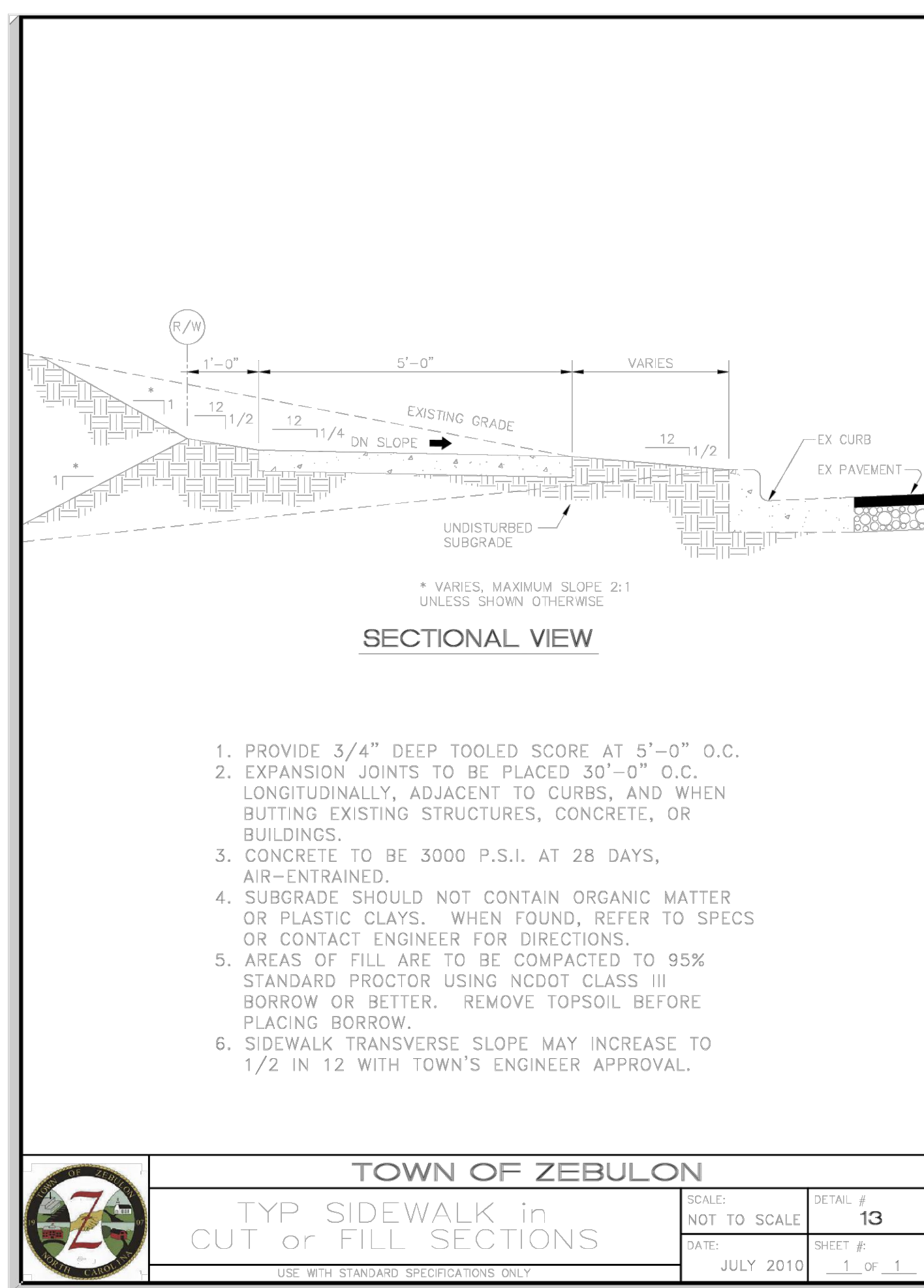
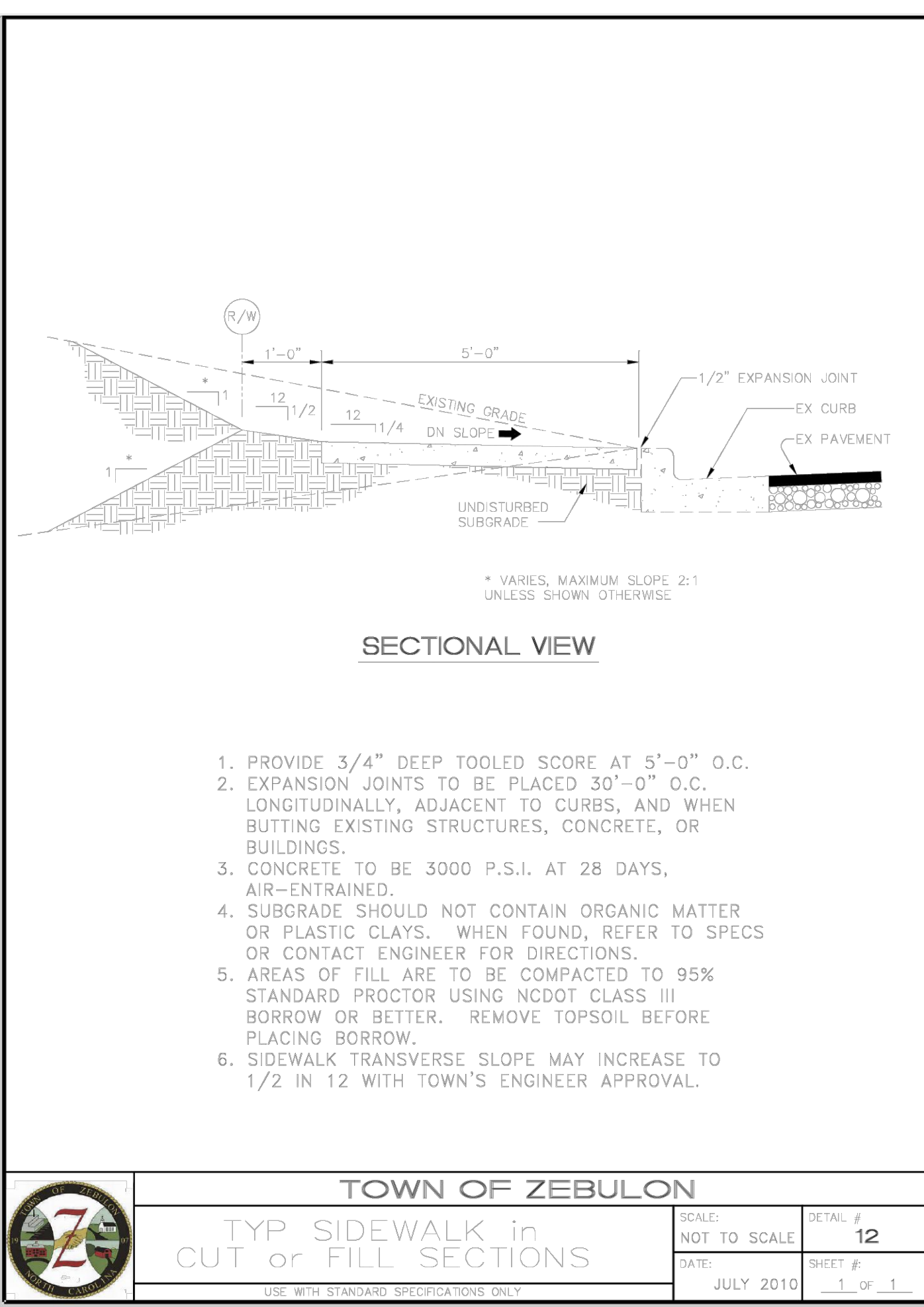
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

SITE DETAILS

PROJECT NO.
19-0103

DRAWING NAME:
19-0103_d.dwg

SHEET NO.
D-5



| NO. | DATE | BY |
|-----|--|-----|
| 7 | 09/07/2022 | DAS |
| 6 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 | DAS |
| 5 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 | DAS |
| 4 | REVISOR PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 | DAS |
| 3 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 | DAS |
| 2 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 | DAS |
| 1 | REVISOR PER TOWN OF ZEBULON REVIEW COMMENTS 11/12/2021 | DAS |

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ENGINEERING ARCHITECTS
DRAWING NUMBER: 19-0103
PROJECT: CADENCE MEADOWS
DESIGNED BY: J. LAMMY, A. ASHLEY
CHECKED BY: J. LAMMY, A. ASHLEY
DATE: 07/20/2022



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CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
SITE DETAILS

PROJECT NO.
19-0103
DRAWING NAME:
19-0103_d.dwg
SHEET NO.
D-6

TRANSITION FROM STD. 30" CURB and GUTTER

PERSPECTIVE

TRANSITION FROM 30" VALLEY GUTTER

PERSPECTIVE

TOWN OF ZEBULON

STD. TRANSITION FROM INLET TO STD. C&G / VALLEY GUTTER

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 33

SHEET # 3 OF 4

EAST JORDAN IRON WORKS
P.O. BOX 439
EAST JORDAN, N.C. 28727
TEL: (704) 732-4550
FAX: (704) 732-4559

| | |
|----------|----------|
| DATE | 12/09/00 |
| APPROVED | |
| DATE | |
| DATE | |

V-4520-1 GRATE

PRODUCT NO. 44520130

CATALOG NO. V-4520-1

REF. PRODUCT DRAWING 44520130

EST. WT. GRATE: 235 LBS 107kg

OPEN AREA 458 SQ IN 2952 sq cm

MATL SPEC. GRATE - GRAY IRON ASTM A48 CL35

LOAD RATING HEAVY DUTY

GRATE SECTION

GRATE TOP VIEW

GRATE SECTION

NOTE: USE EAST JORDAN IRON WORKS V-4520-1 GRATE OR EQUIVALENT BY US FOUNDRY.

TOWN OF ZEBULON

DETAIL FOR STORM DRAIN WITH DRIVEWAY CONFLICT

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 33

SHEET # 4 OF 4

TOWN OF ZEBULON

2x3 DROP INLET

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 34

SHEET # 1 OF 1

| END SECTION DIMENSIONS | | | | | |
|------------------------|------------|-----------|------------|-----------|------------|
| DIA. | A | B | C | D | E |
| 15" | 7" | 2'-3 1/4" | 3'-11 1/2" | 6'-2 3/4" | 2'-6" |
| 18" | 9" | 2'-3" | 3'-11 3/4" | 6'-2 3/4" | 3'-0" |
| 24" | 9" | 3'-7" | 3'-1" | 6'-8" | 3'-11 3/4" |
| 30" | 1'-0" | 4'-6 1/2" | 1'-10 1/2" | 6'-5" | 5'-0" |
| 36" | 1'-4" | 5'-0" | 3'-1 1/2" | 8'-1 1/2" | 5'-11" |
| 42" | 1'-10 1/4" | 5'-1 3/8" | 3'-1" | 8'-2 3/8" | 6'-5 1/4" |

NOTES:

- DESIGN OF END-SECTION SHALL CONFORM TO STANDARD REINFORCED SECTIONAL CONCRETE CULVERT PIPE.
- ANY TWIN BARREL SYSTEM GREATER THAN 42" RCP REQUIRES A HEADWALL.
- ANY SYSTEM OF MORE THAN 2 PIPES REQUIRES A HEADWALL.
- SEE NCDOT "ROADWAY STANDARD DRAWINGS" FOR HEADWALL CONSTRUCTION DETAILS.

TOWN OF ZEBULON

STD. FLARED END SECTIONS DESIGN AID DETAIL

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 35

SHEET # 1 OF 1

| PIPE D _i | MAX. B _d | MAX. BURY H CLASS III (0.01' CRACK) | MAX. BURY H CLASS IV (0.01' CRACK) |
|---------------------|---------------------|-------------------------------------|------------------------------------|
| 15" | 4' | 9.5' | 14.5' |
| 18" | 4' | 9.5' | 15.0' |
| 24" | 4' | 12.0' | 23.5' |
| 30" | 5.5' | 10.0' | 17.0' |
| 36" | 6' | 10.5' | 18.0' |
| 42" | 6.5' | 13.0' | 19.0' |
| 48" | 7' | 13.5' | 20.0' |
| 54" | 8' | 13.0' | 18.5' |
| 60" | 9' | 11.0' | 18.0' |
| 72" | 10' | 13.0' | 19.0' |

THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING

TOWN OF ZEBULON

STD. TRENCH INSTALLATION FOR CONCRETE PIPE (FOR CONTRACTOR'S USE)

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 36

SHEET # 1 OF 5

TOWN OF ZEBULON

STD. M.H. J.B. VARIABLE LENGTH

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 37

SHEET # 1 OF 3

TOWN OF ZEBULON

PRECAST CONCRETE 4' DIA. MH JB

SCALE: NOT TO SCALE

DATE: JULY 2010

DETAIL # 40

SHEET # 1 OF 1

CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS

915 PONY ROAD ZEBULON, NC

PROJECT NO. 19-0103

DRAWING NAME: 19-0103_d.dwg

SHEET NO. D-7

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CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS

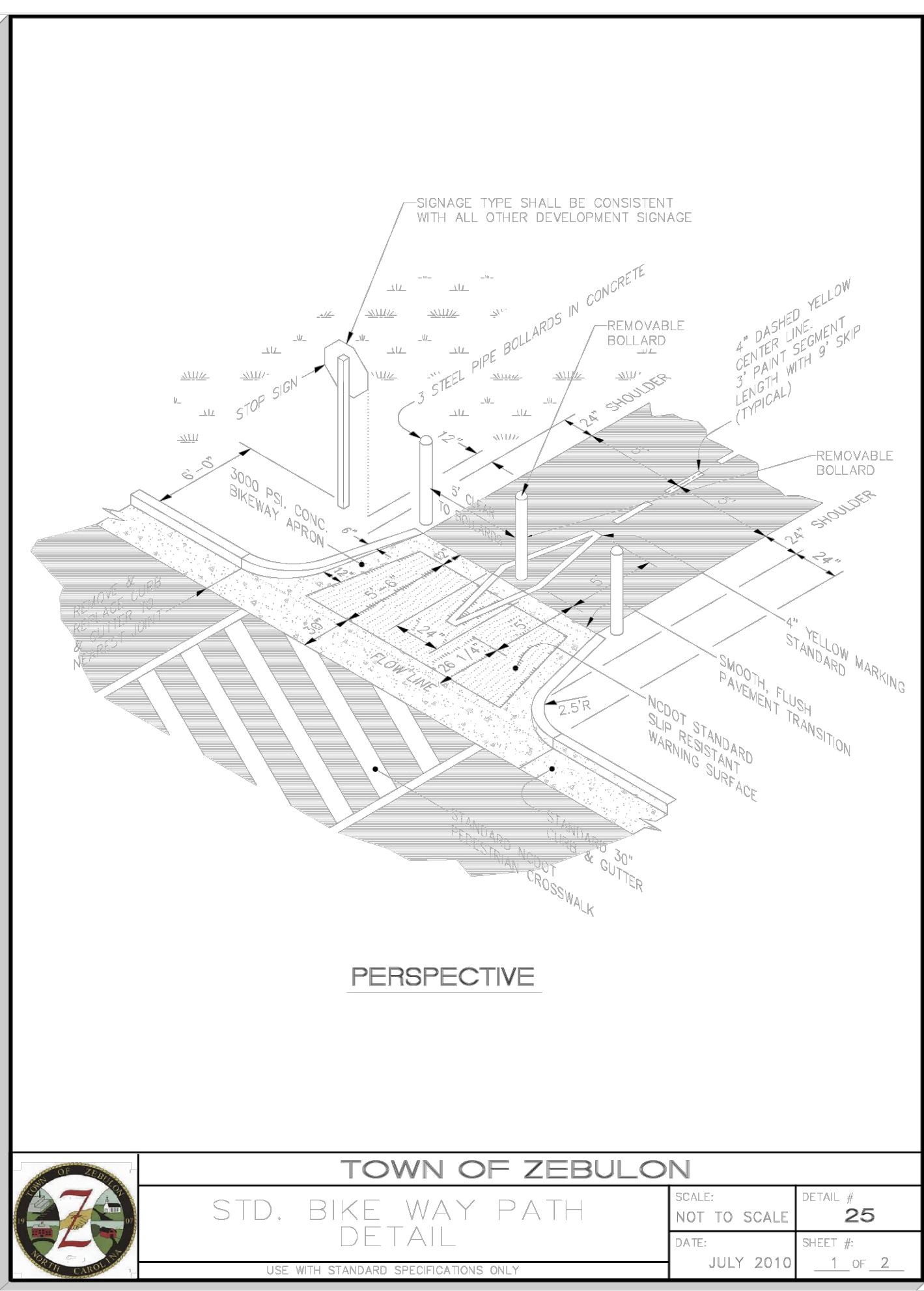
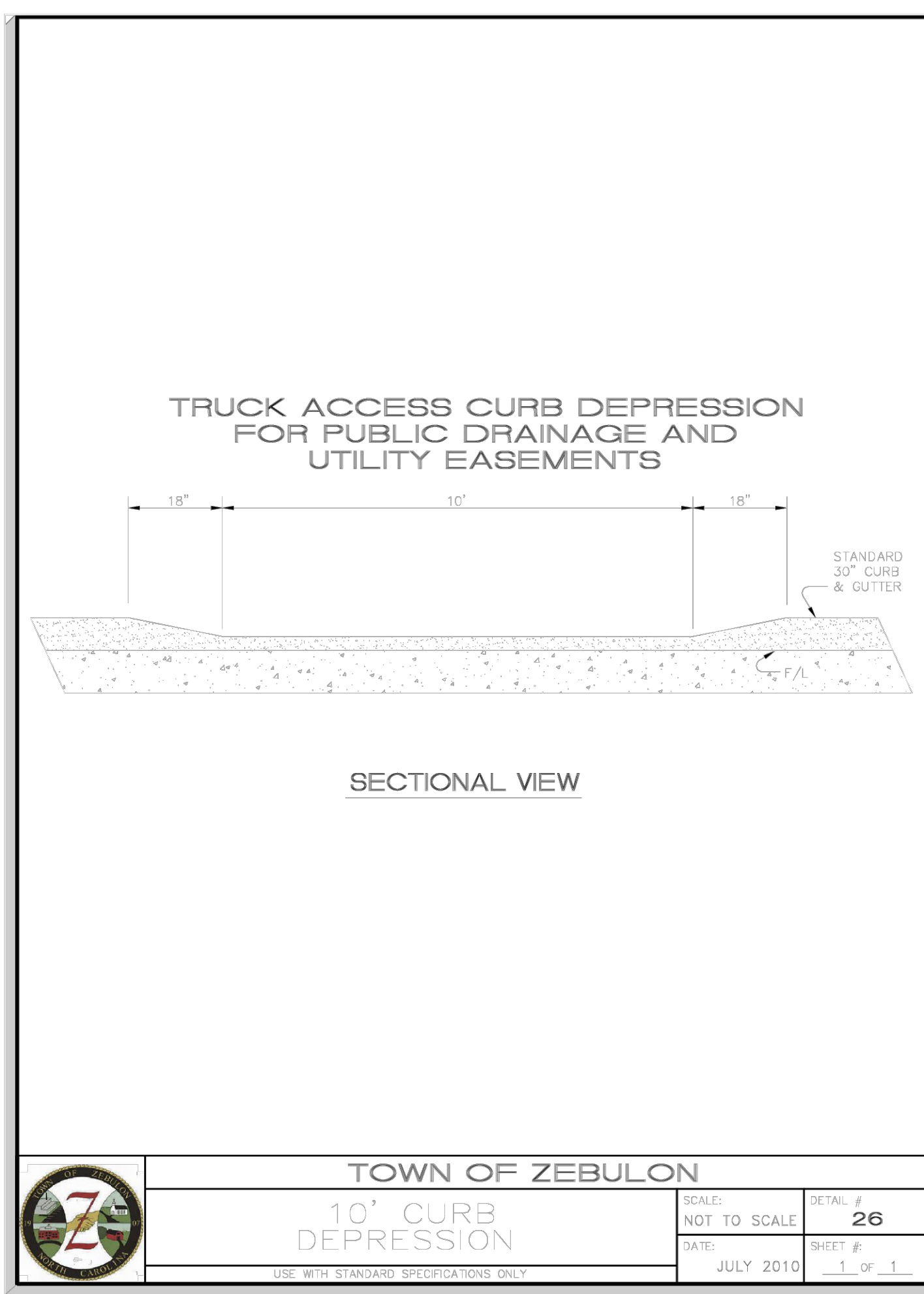
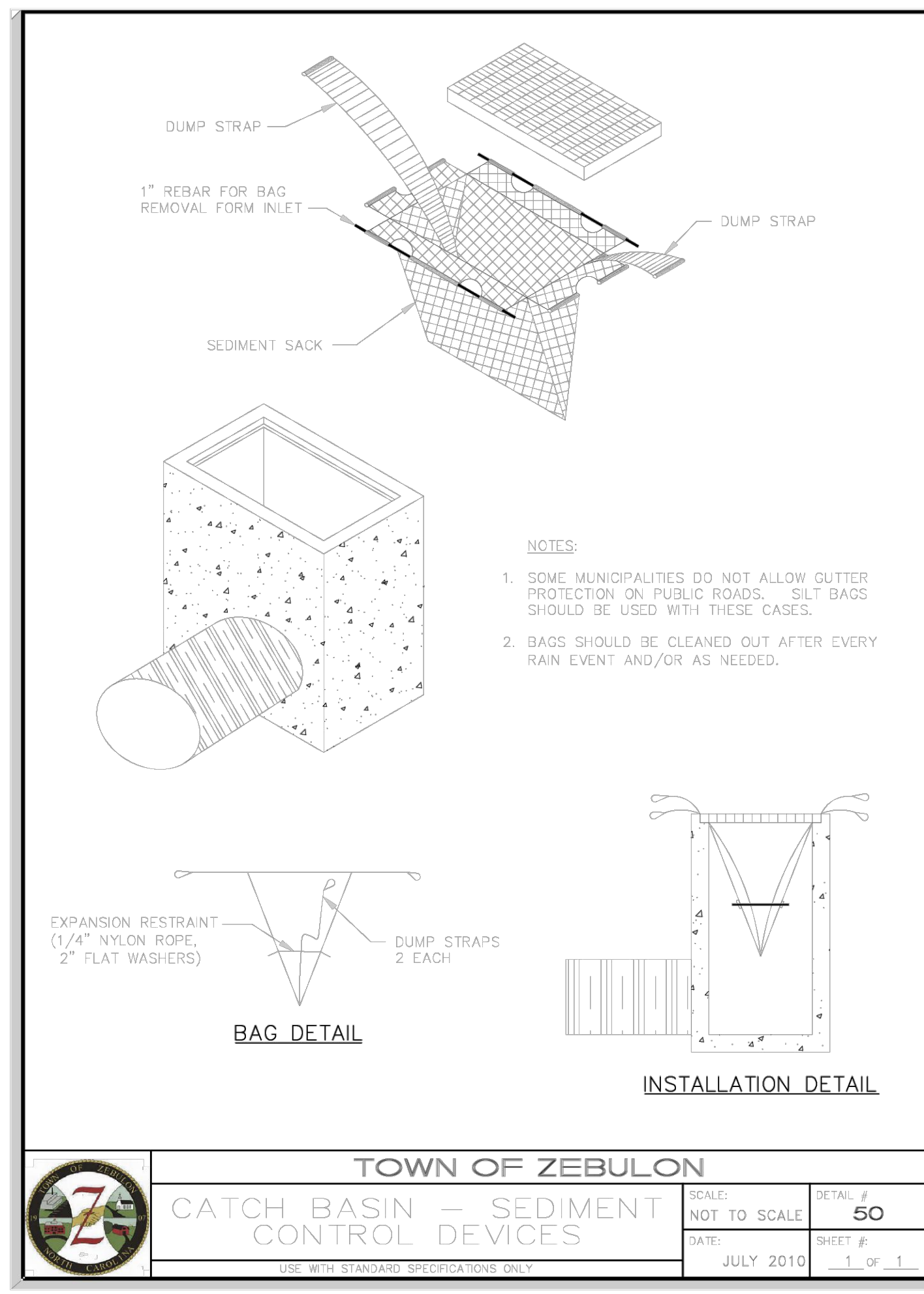
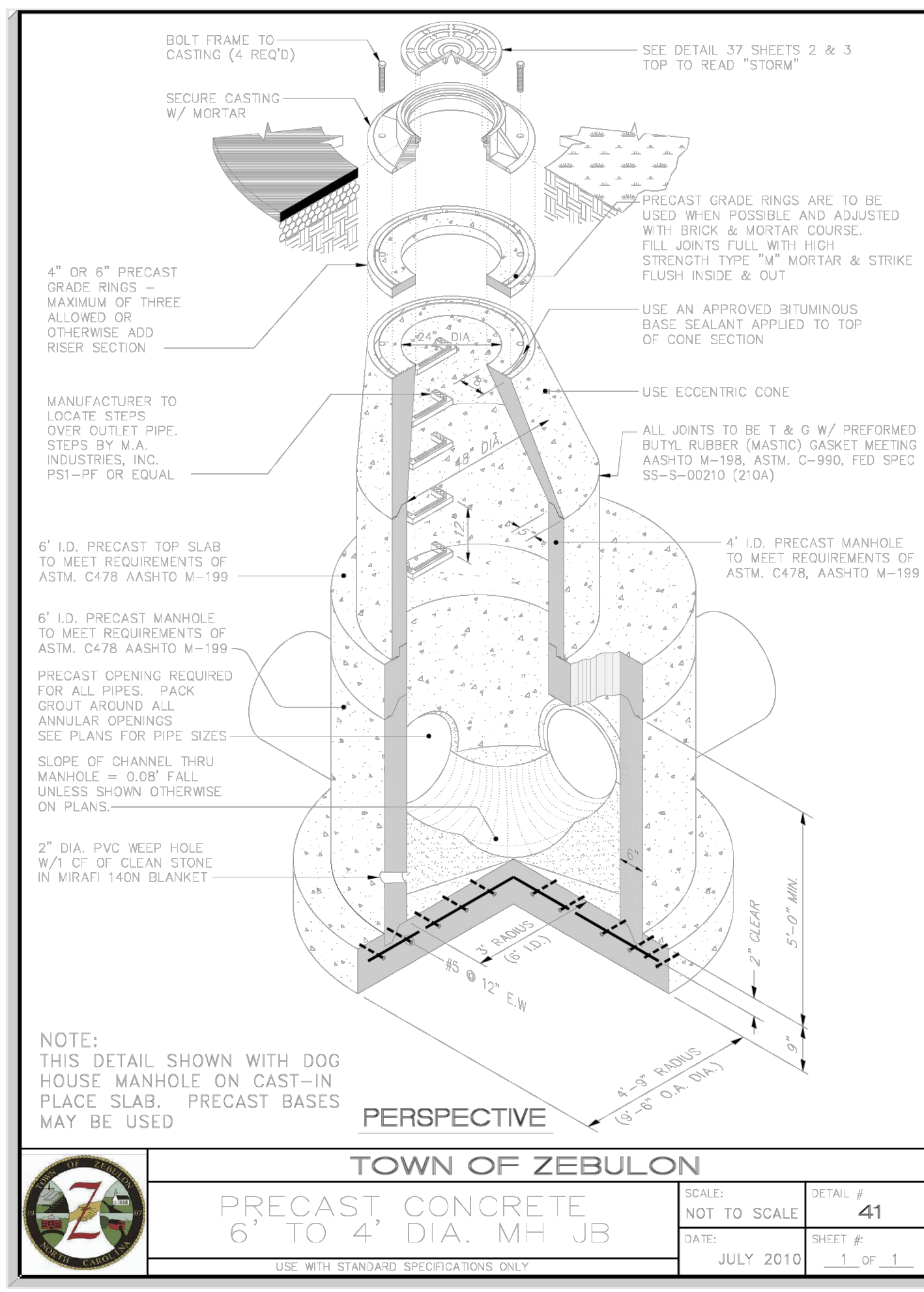
915 PONY ROAD ZEBULON, NC

PROJECT NO. 19-0103

DRAWING NAME: 19-0103_d.dwg

SHEET NO. D-7

| NO. | DATE | BY | REVISIONS |
|-----|------------|-----|--|
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| 6 | 06/07/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 |
| 5 | 05/03/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 |
| 4 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/25/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2022 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/12/2021 |

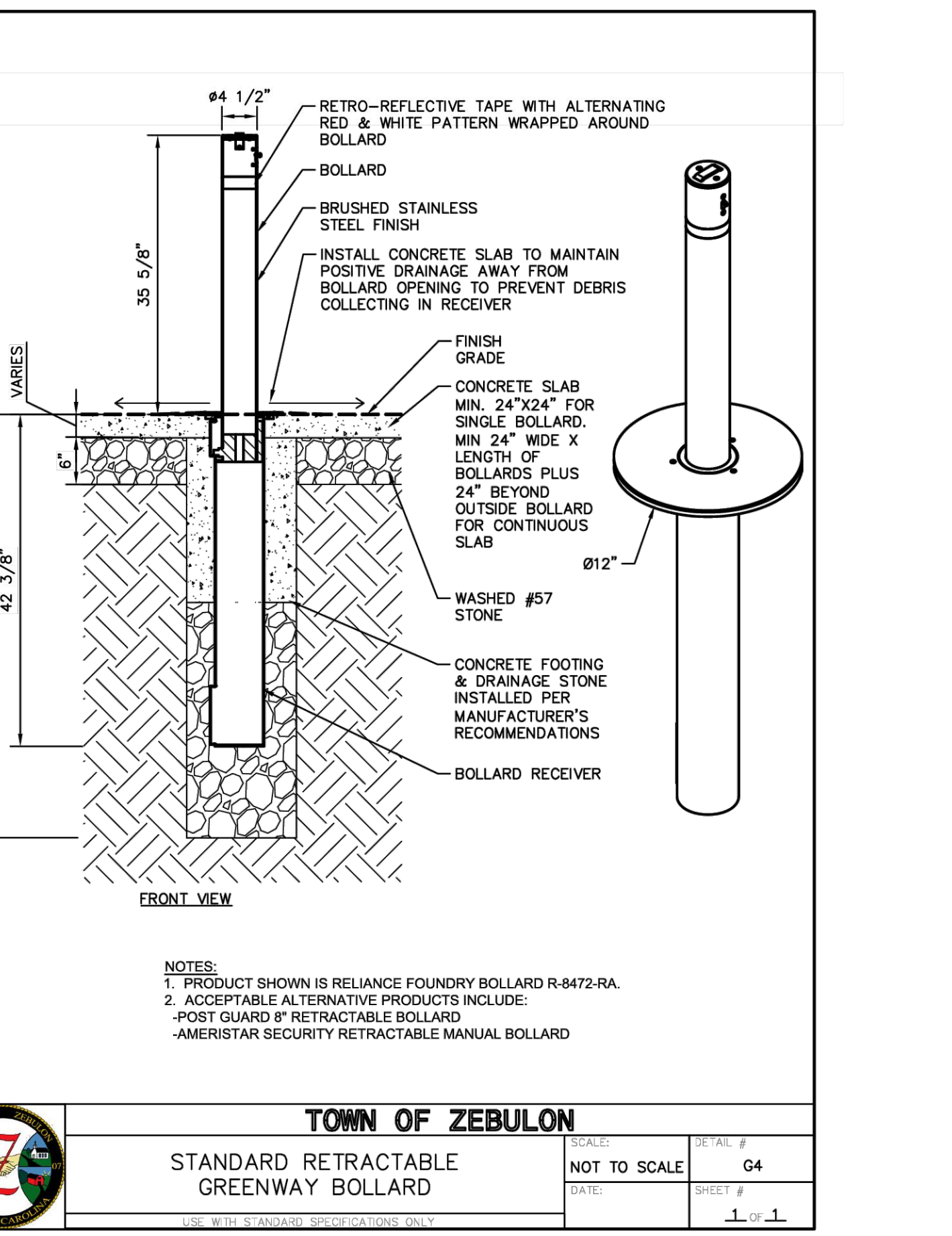
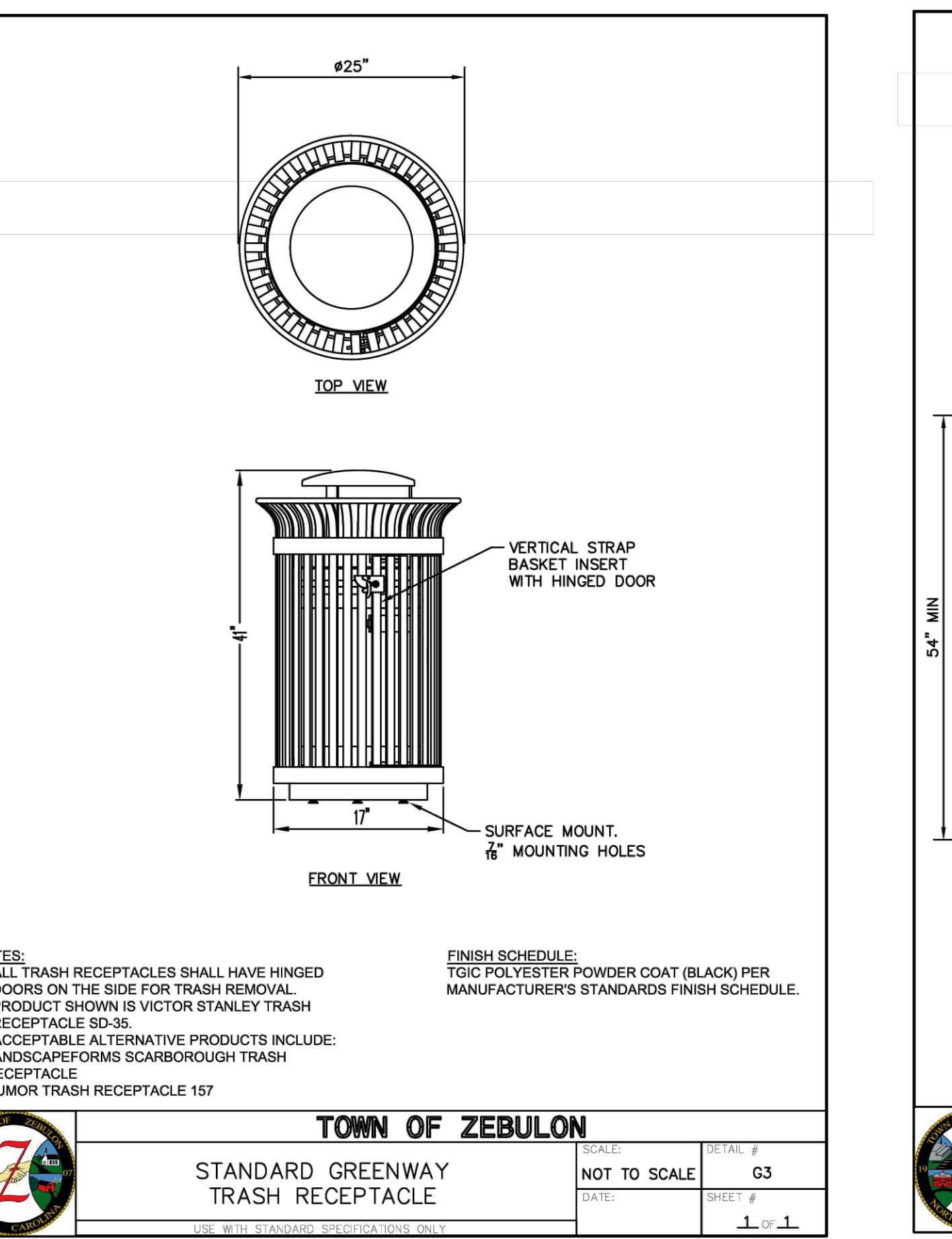
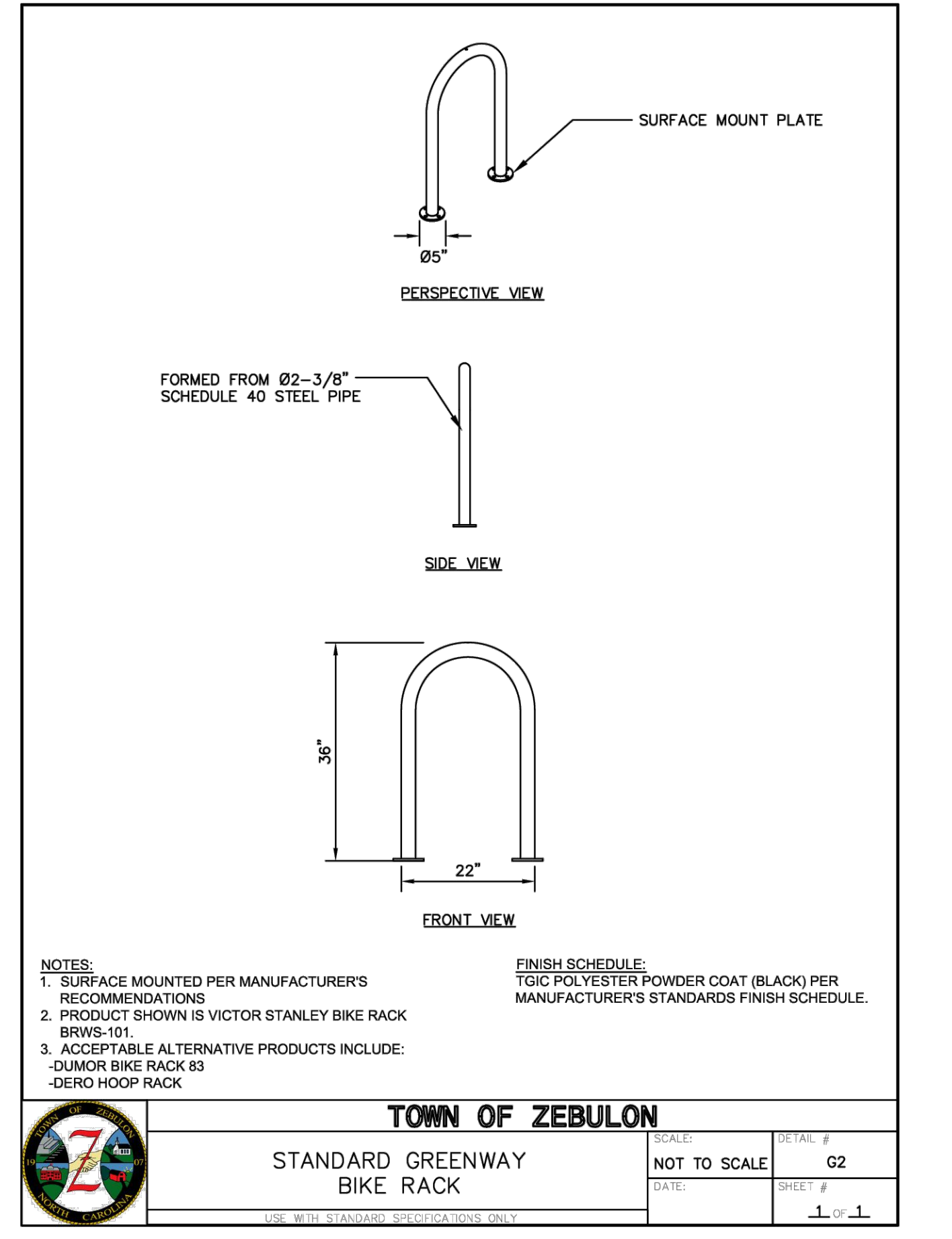
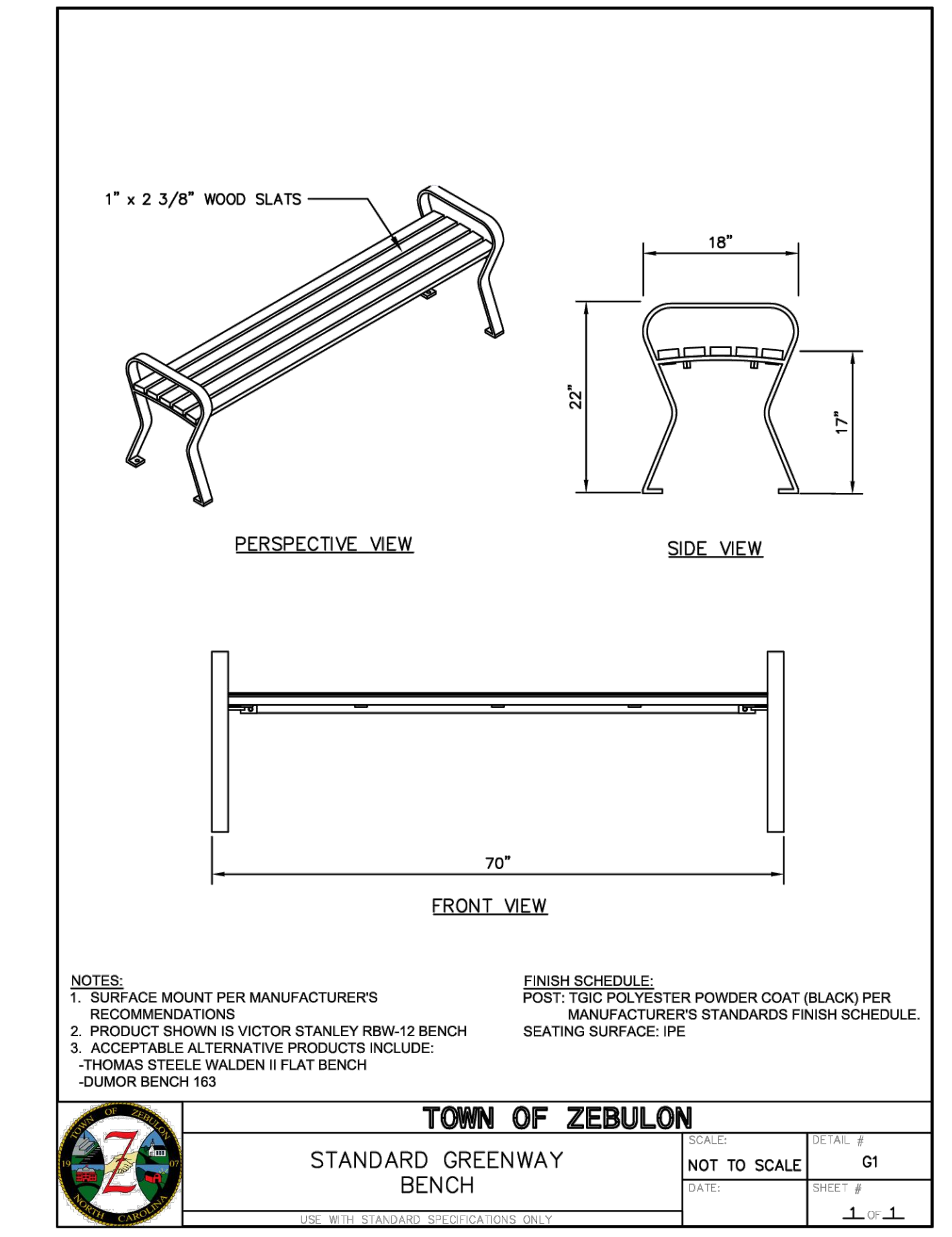


Section 8: Greenway Design Standards

Section 8: Greenway Design Standards

Section 8: Greenway Design Standards

Section 8: Greenway Design Standards



Town of Zebulon Chapter 4: Greenway Standard Details Town of Zebulon

Town of Zebulon Chapter 4: Greenway Standard Details Town of Zebulon

Town of Zebulon Chapter 4: Greenway Standard Details Town of Zebulon

Town of Zebulon Chapter 4: Greenway Standard Details Town of Zebulon

| NO. | DATE | BY | REVISIONS |
|-----|------------|-----|--|
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| 5 | 05/03/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 |
| 4 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/26/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2021 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/12/2020 |



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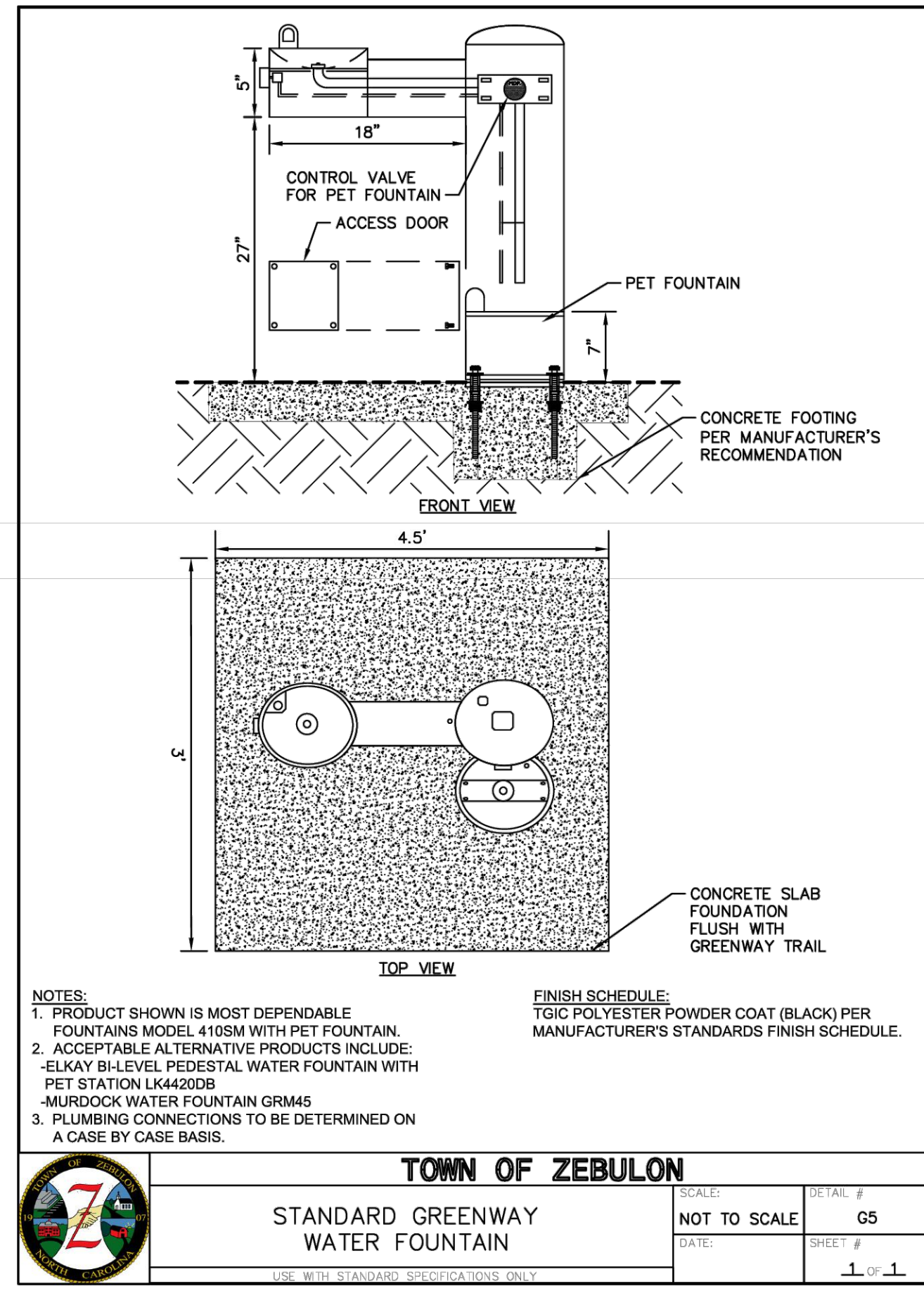
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

SITE DETAILS

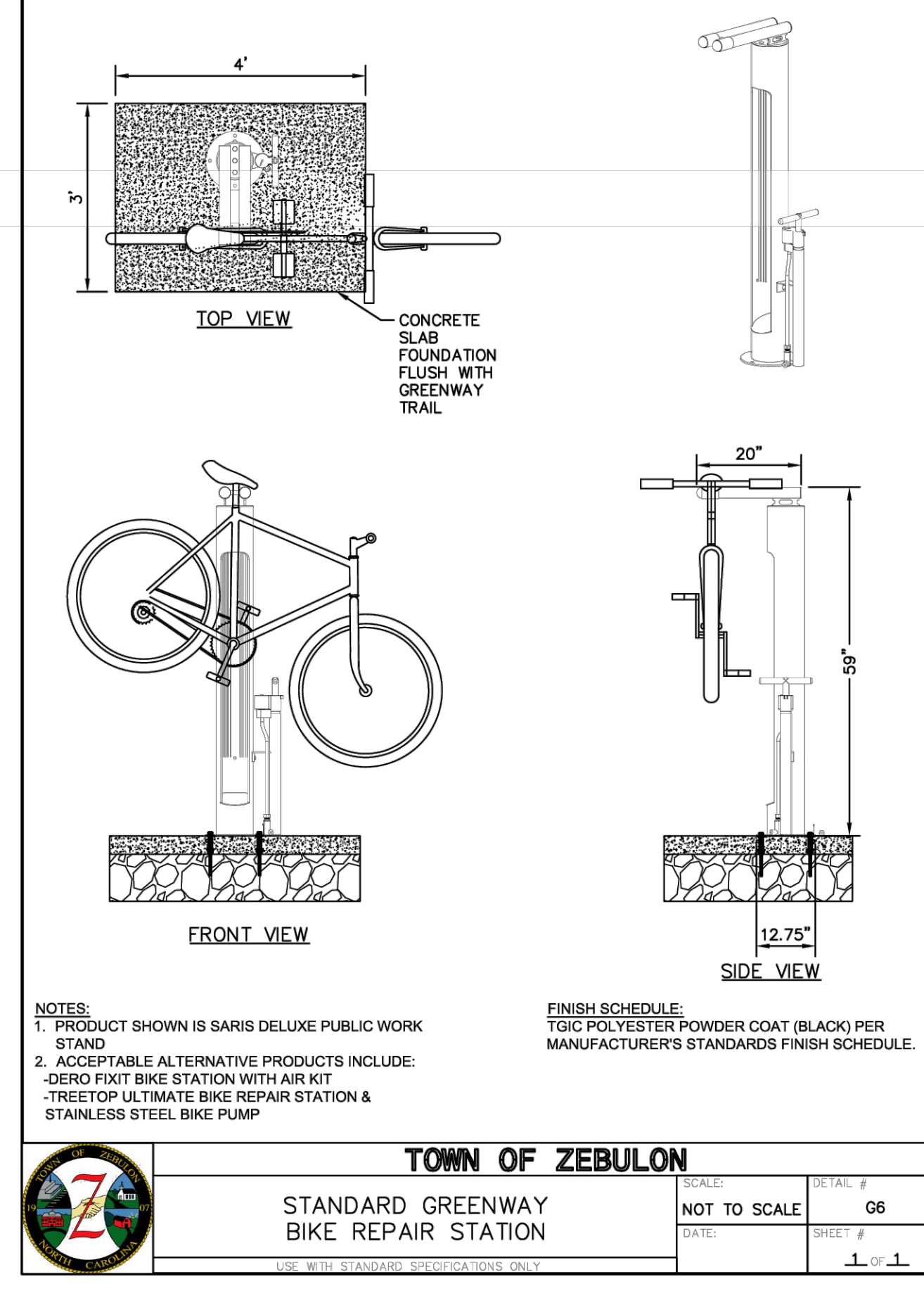
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19-0103

DRAWING NAME:
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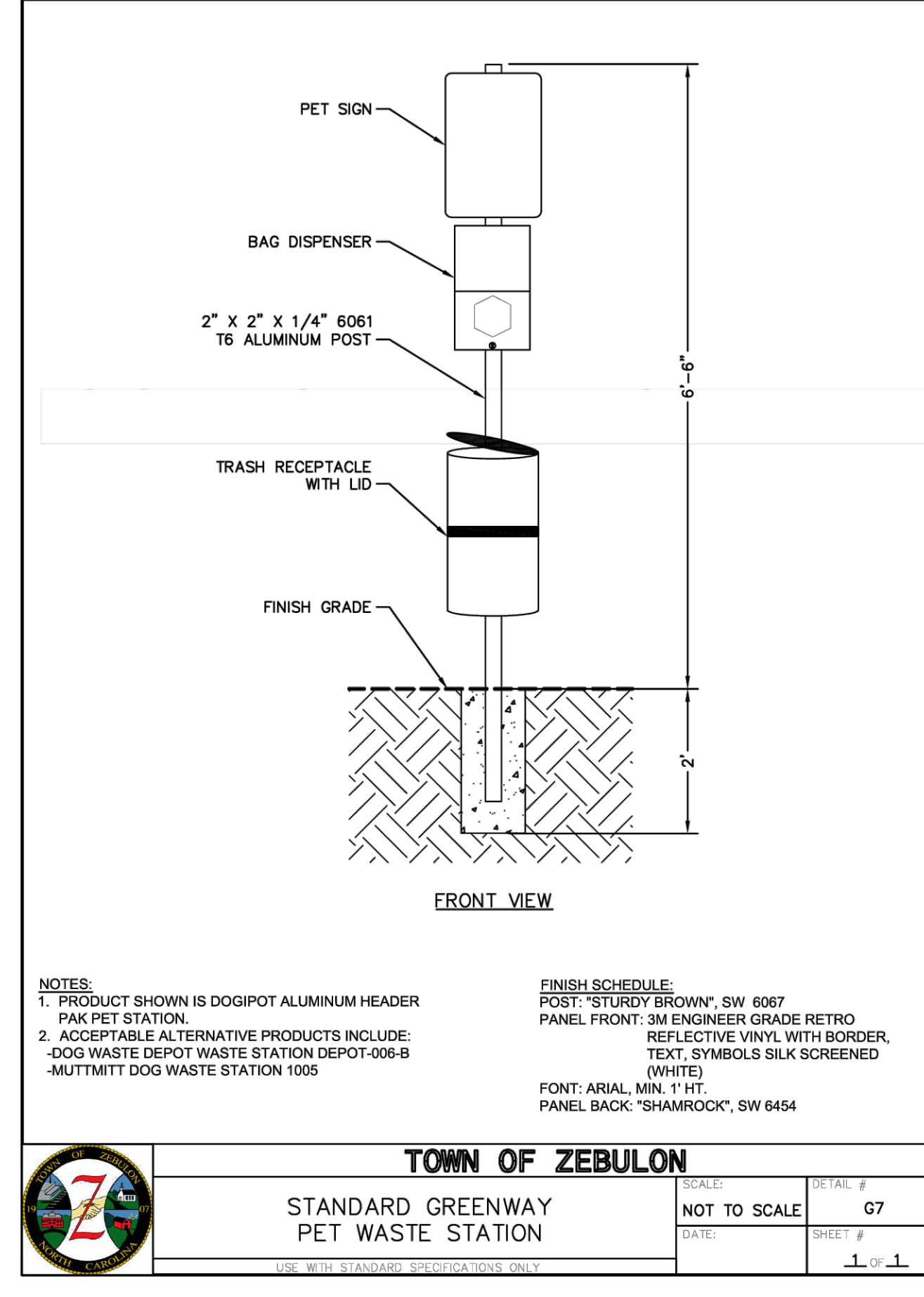
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D-8



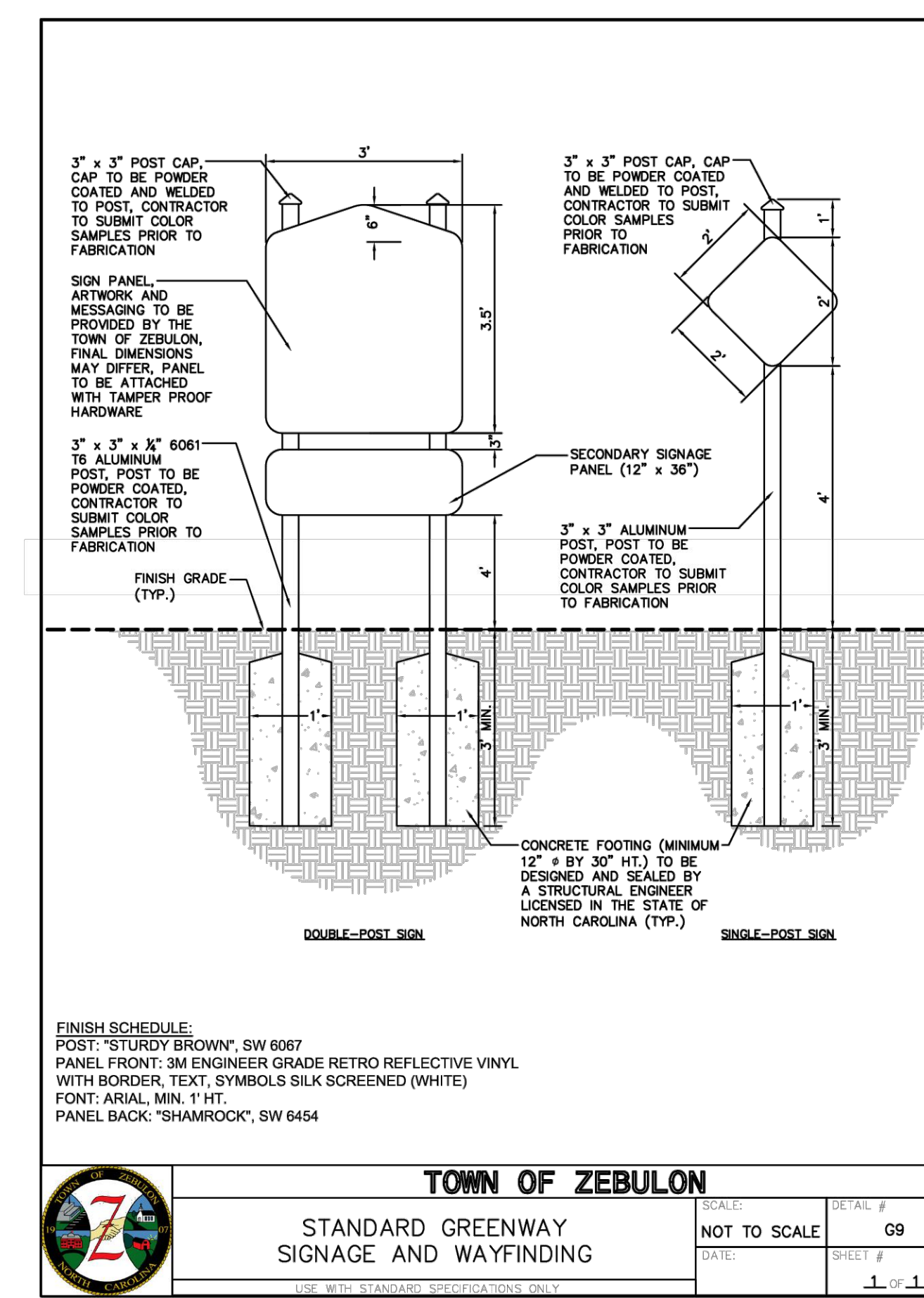
Town of Zebulon Chapter 4: Greenway Standard Details



Town of Zebulon Chapter 4: Greenway Standard Details



Town of Zebulon Chapter 4: Greenway Standard Details



Town of Zebulon Chapter 4: Greenway Standard Details

| NO. | DATE | DESCRIPTION | BY |
|-----|------------|--|-----|
| 1 | 07/14/2022 | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/17/2021 | DAS |
| 2 | 07/26/2022 | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 | DAS |
| 3 | 04/06/2022 | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 | DAS |
| 4 | 06/03/2022 | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 | DAS |
| 5 | 06/03/2022 | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 | DAS |
| 6 | 06/07/2022 | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 | DAS |
| 7 | 09/01/2022 | FINAL SET | DAS |

REVISIONS

PROJECT ENGINEER/ARCHITECT: AMI@SUMMITDESIGN.COM
 PROJECT MANAGER: DAS@SUMMITDESIGN.COM
 DRAWING ALTERNATE: DAS@SUMMITDESIGN.COM
 DRAWN BY: JAS@SUMMITDESIGN.COM
 FIRST ISSUE DATE: 11/01/2021

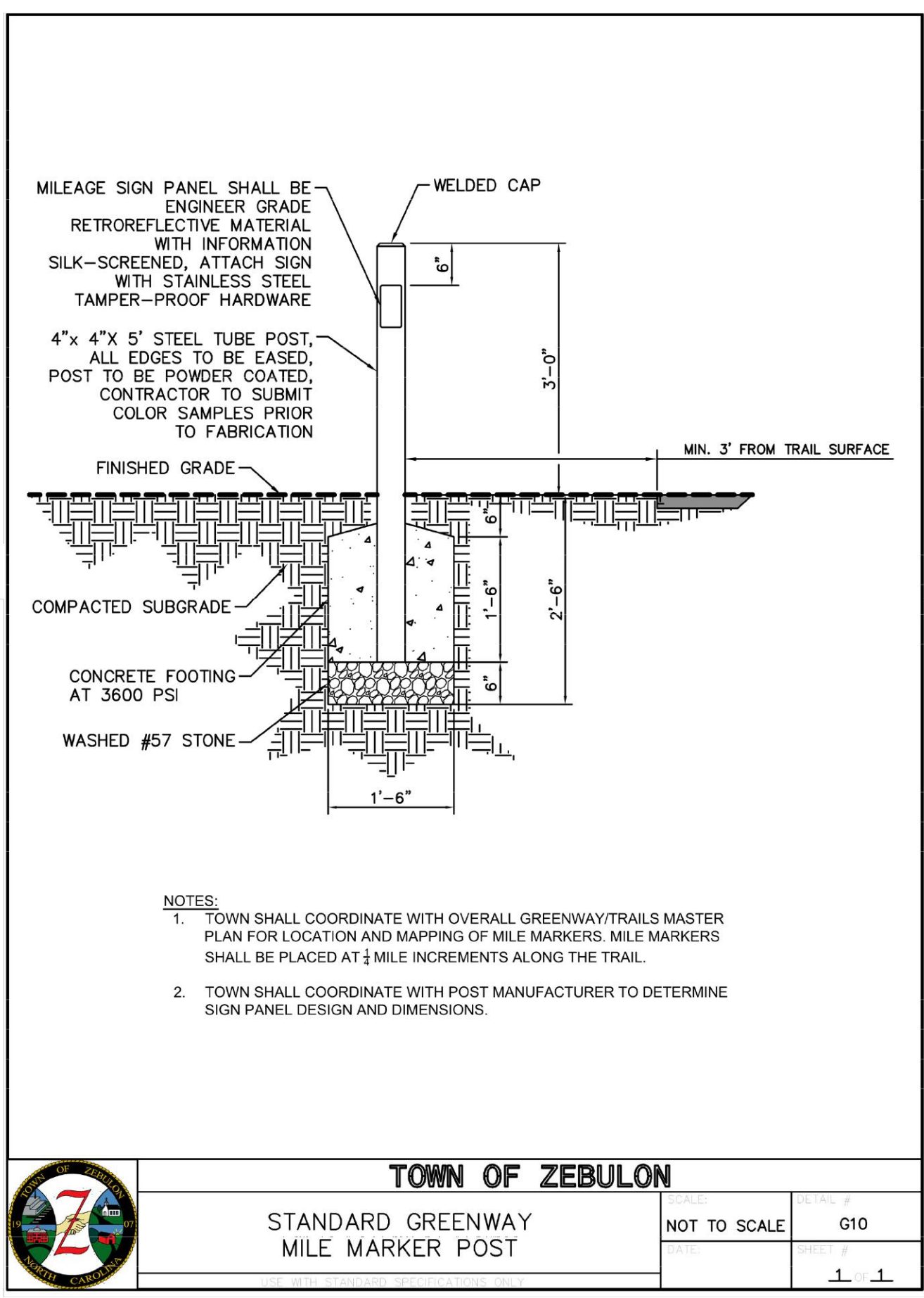
SEAL
 24627
 PROFESSIONAL ENGINEER
 09/01/2022

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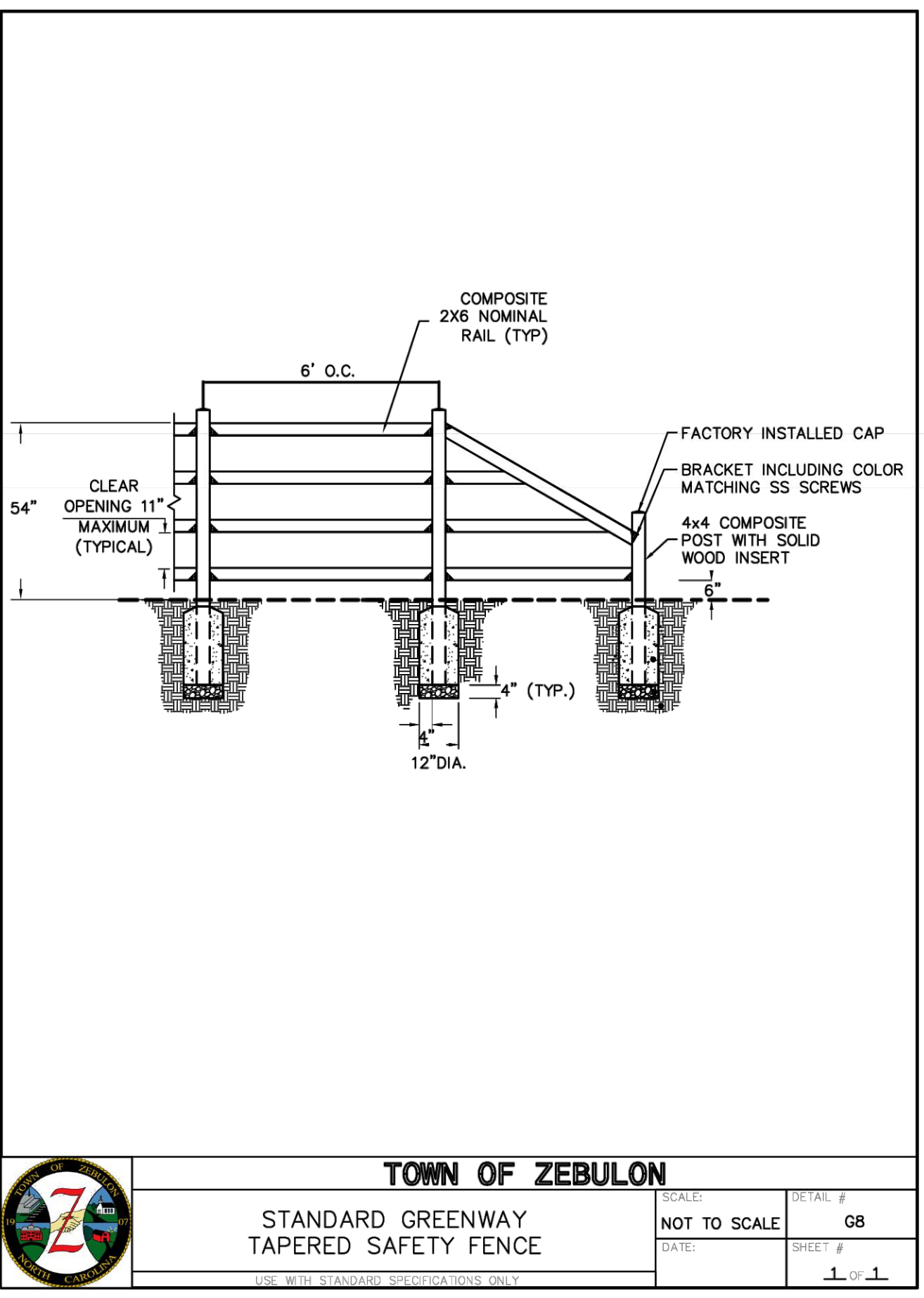
CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

SITE DETAILS

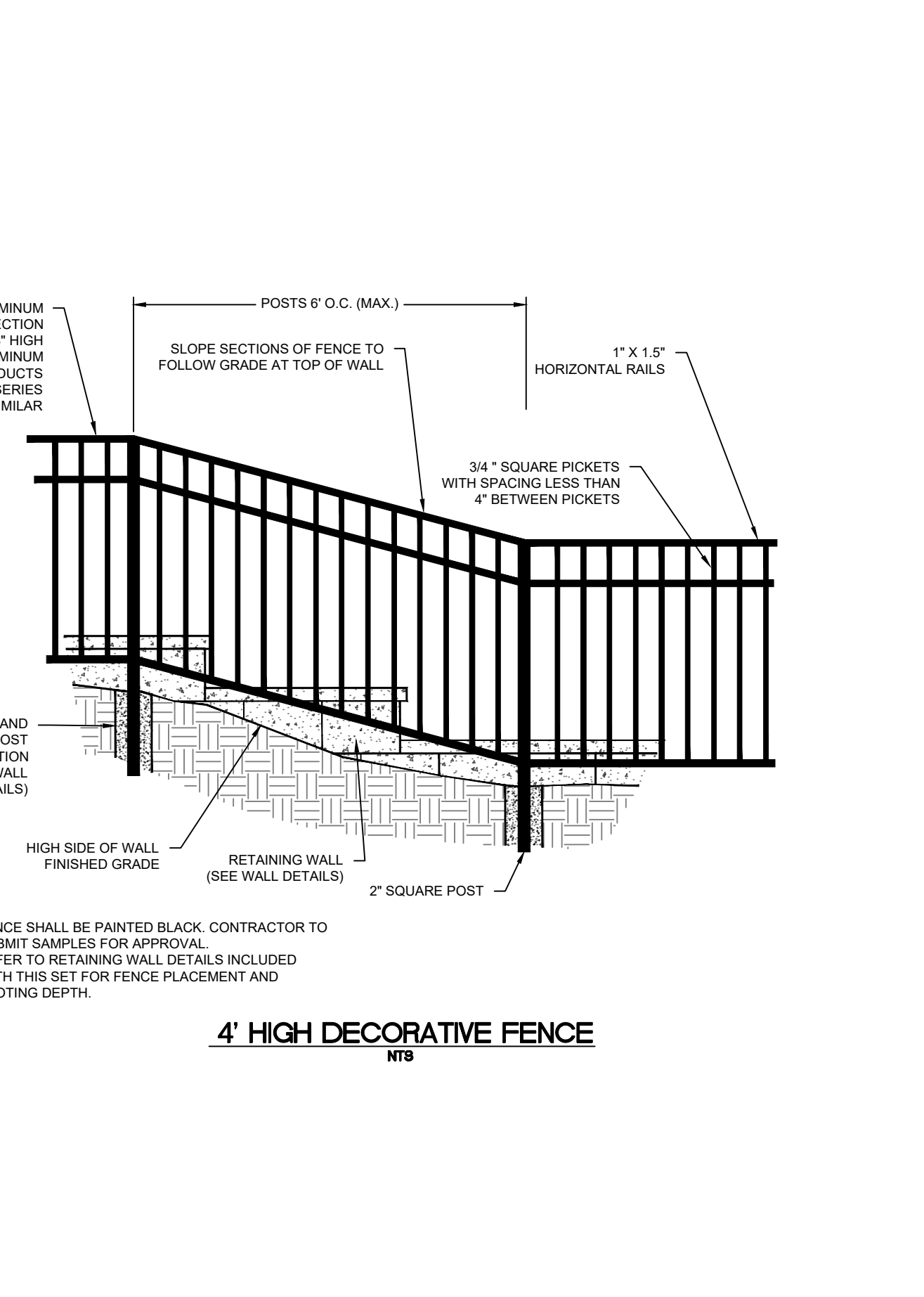
PROJECT NO. 19-0103
 DRAWING NAME: 19-0103_d.dwg
 SHEET NO. D-8A



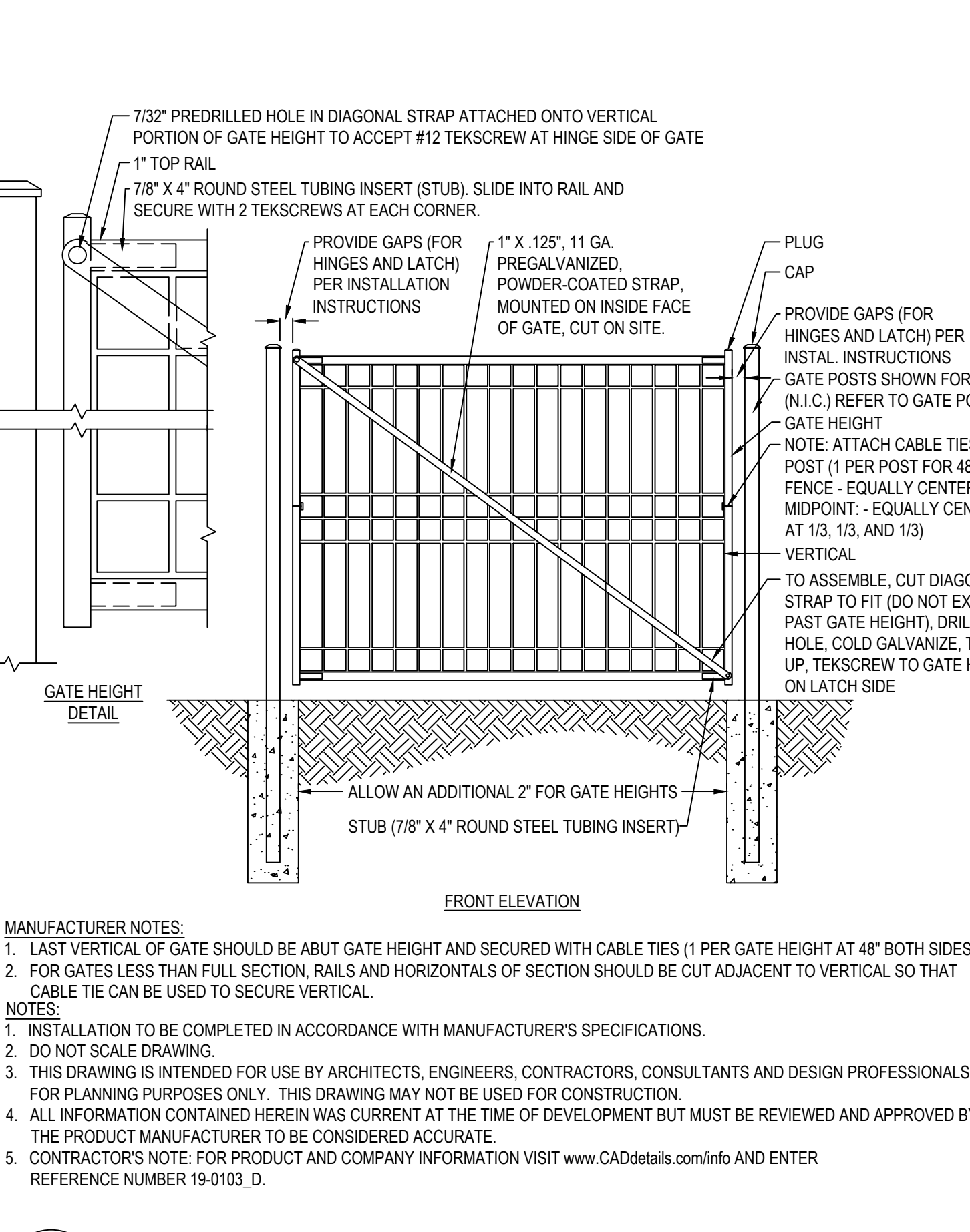
Town of Zebulon Chapter 4: Greenway Standard Details



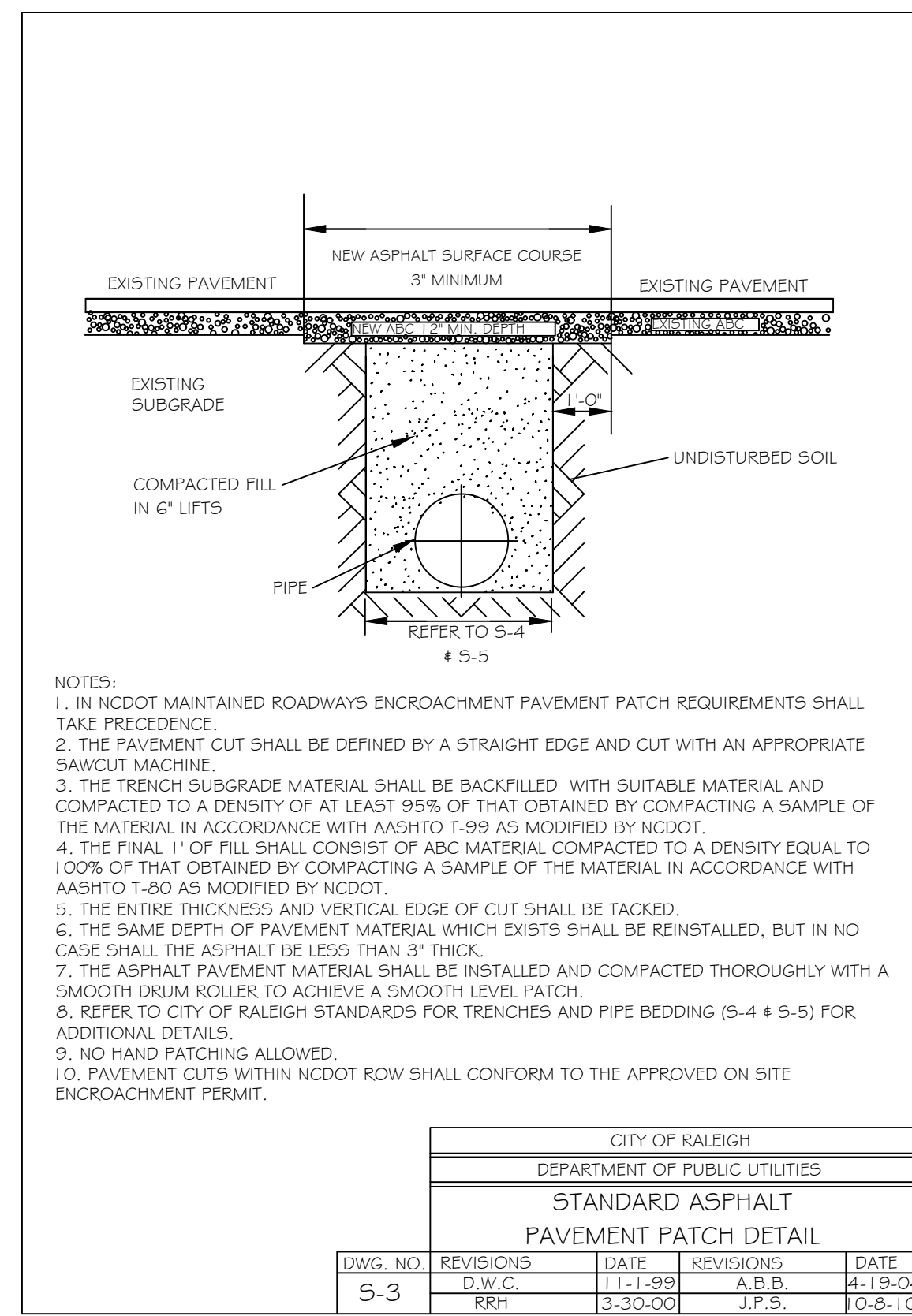
Town of Zebulon Chapter 4: Greenway Standard Details



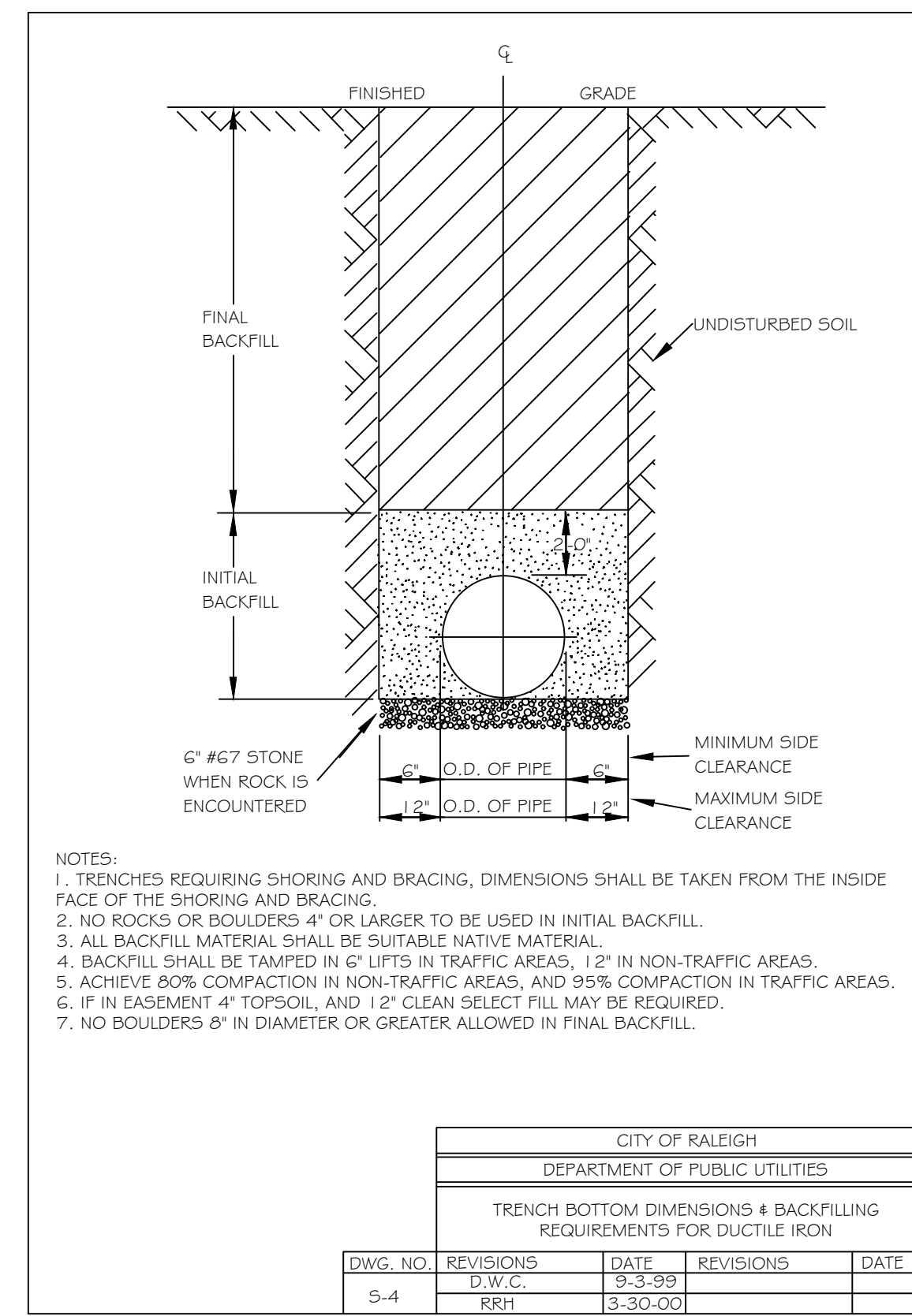
Town of Zebulon Chapter 4: Greenway Standard Details



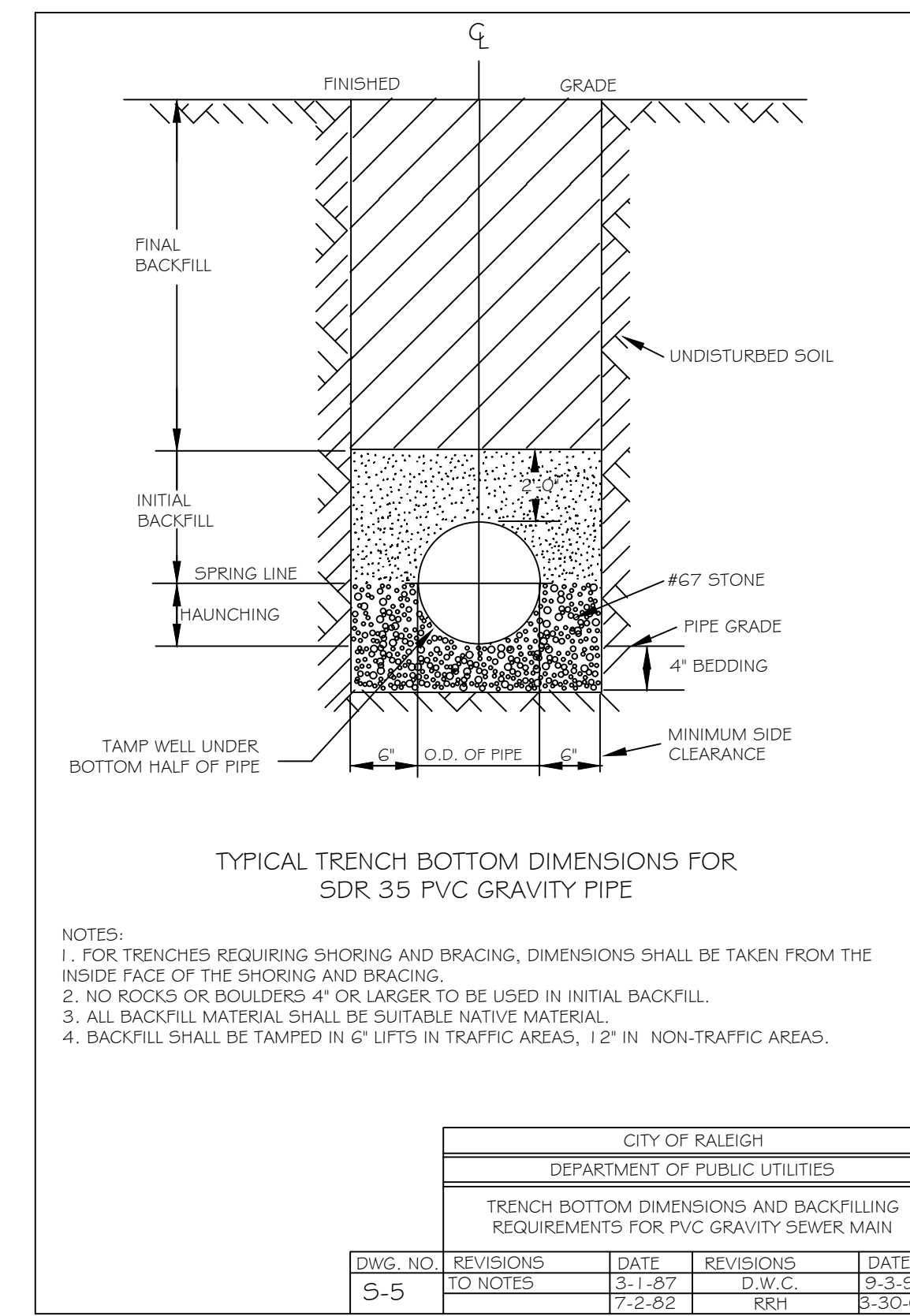
Town of Zebulon Chapter 4: Greenway Standard Details



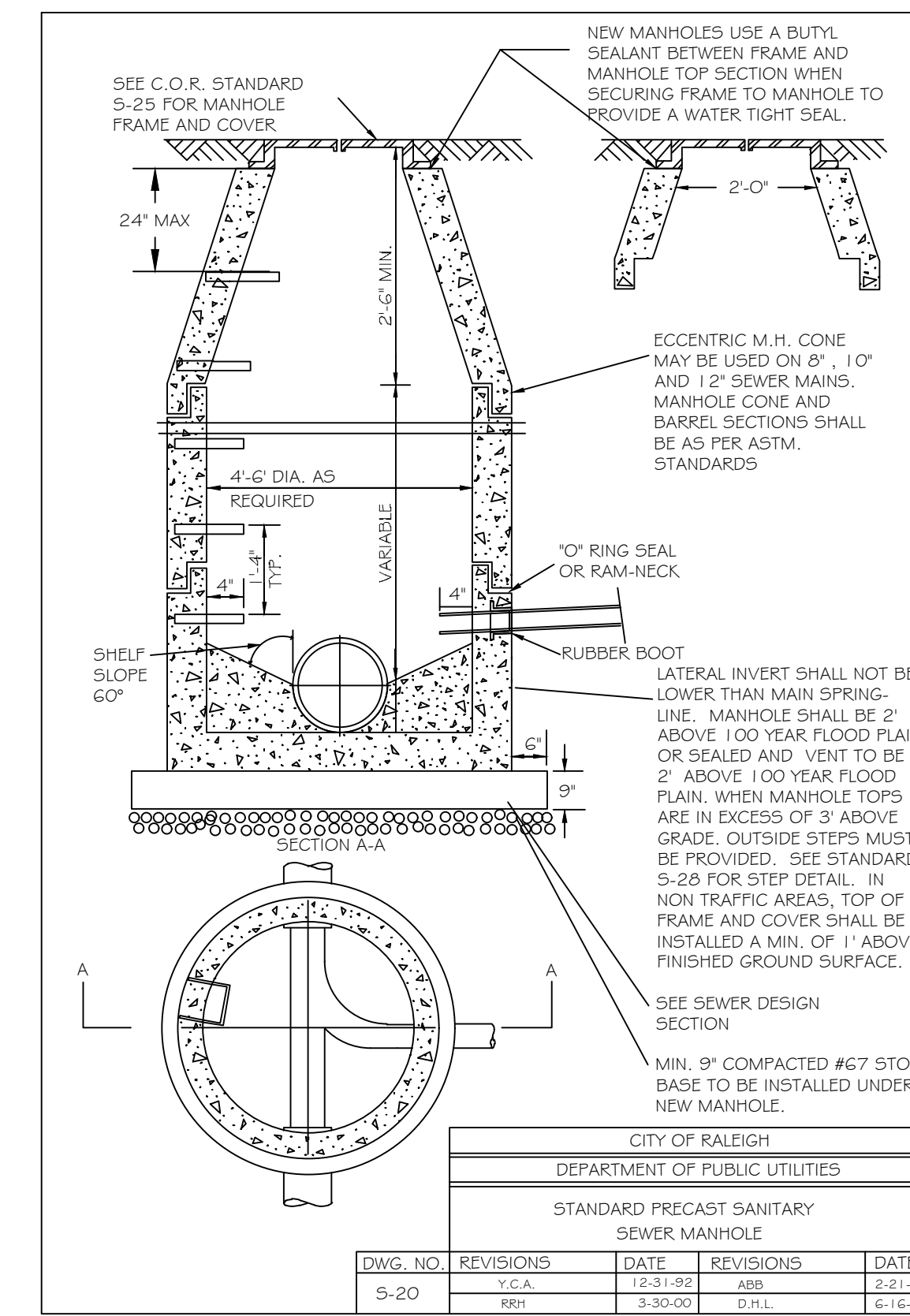
| CITY OF RALEIGH | | | | | |
|--|-----------|---------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| STANDARD ASPHALT PAVEMENT PATCH DETAIL | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-3 | | D.W.C. | | | |
| | | RKH | | | |
| | | 3-30-00 | | | |
| | | J.F.S. | | | |
| | | 4-19-04 | | | |
| | | O.B.T. | | | |



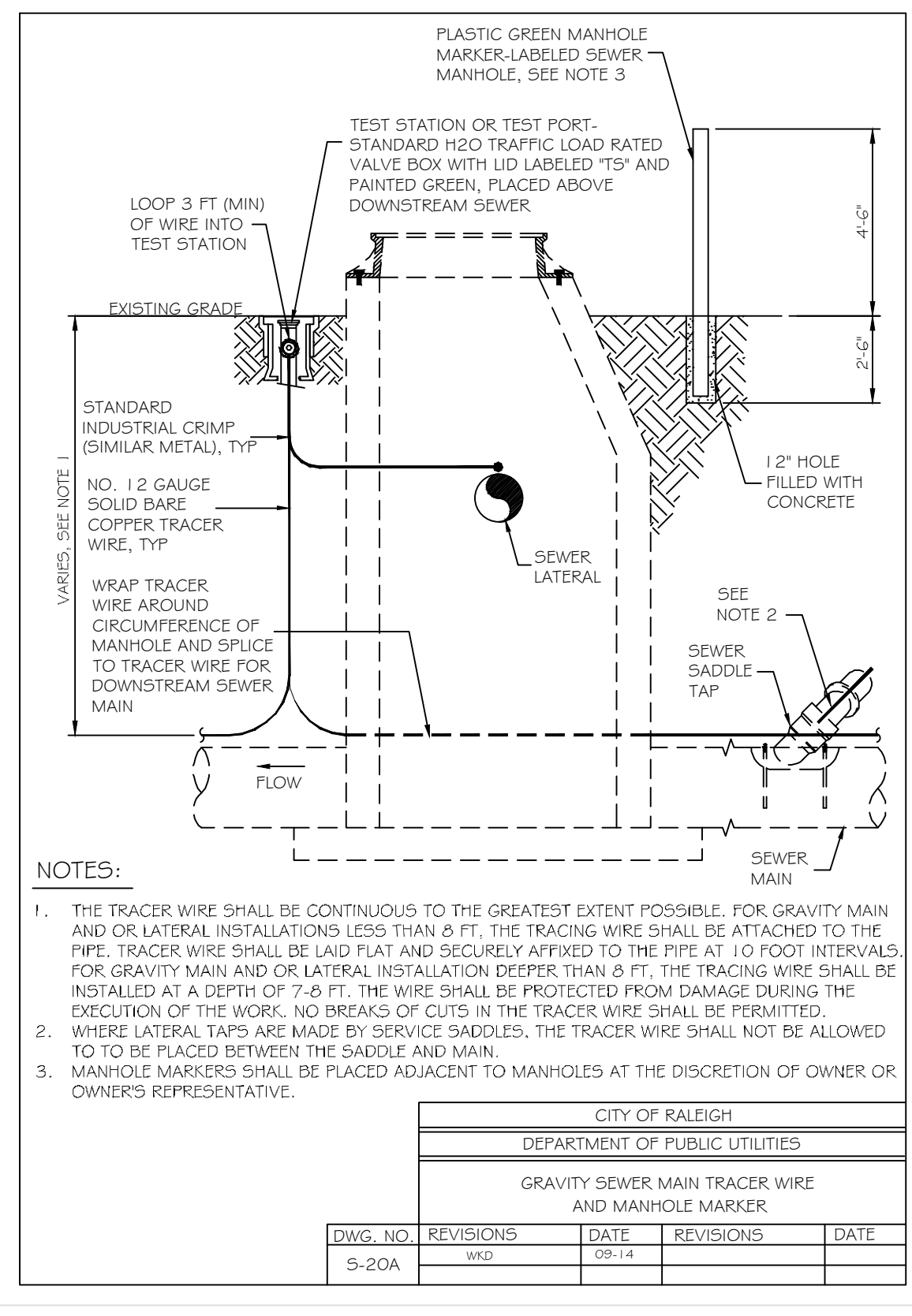
| CITY OF RALEIGH | | | | | |
|---|-----------|---------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| TRENCH BOTTOM DIMENSIONS & BACKFILL REQUIREMENTS FOR DUCTILE IRON | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-4 | | D.W.C. | | | |
| | | RKH | | | |
| | | 3-30-00 | | | |



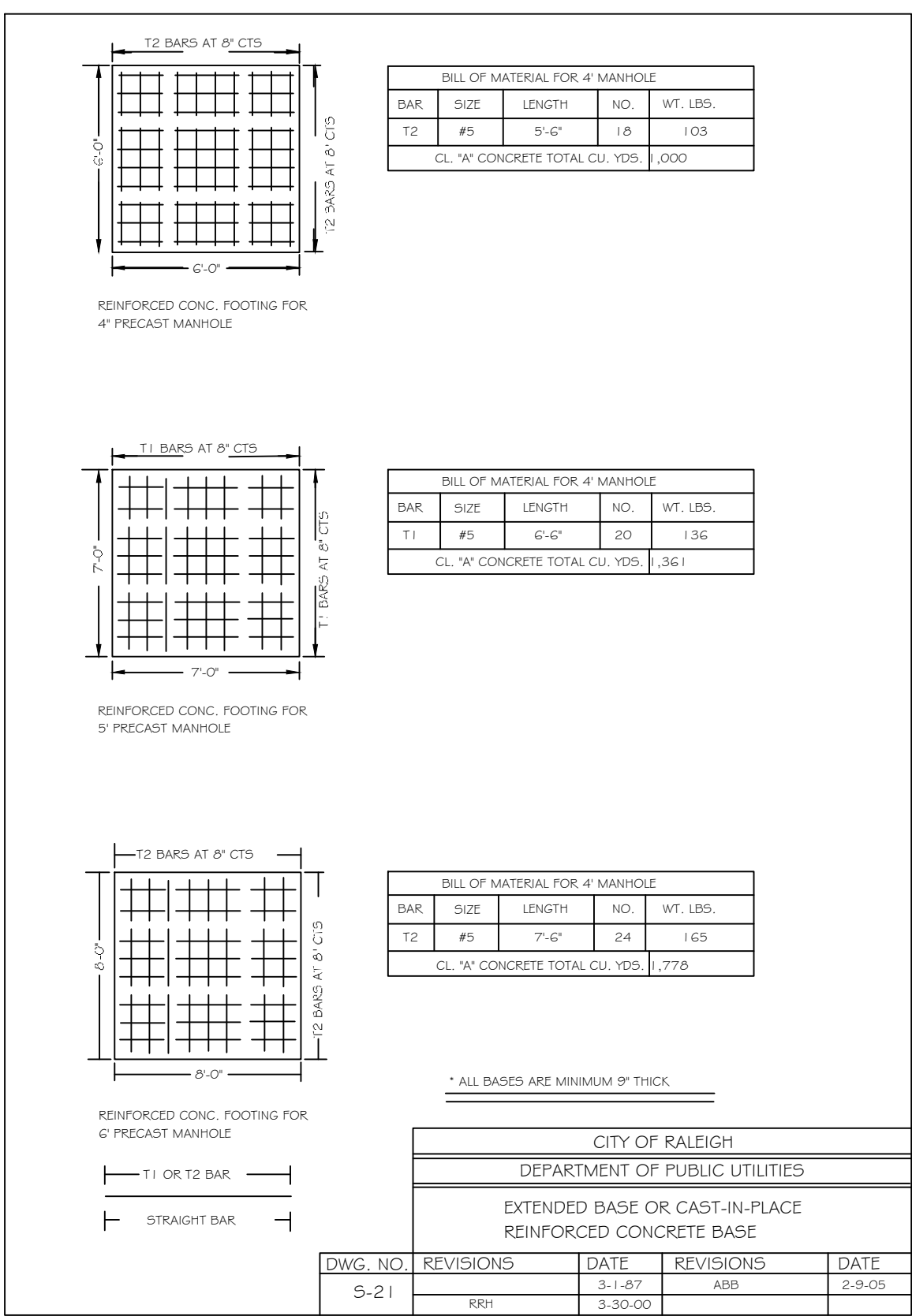
| CITY OF RALEIGH | | | | | |
|---|-----------|----------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| TRENCH BOTTOM DIMENSIONS & BACKFILL REQUIREMENTS FOR PVC GRAVITY SEWER MAIN | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-5 | | TO NOTES | | | |
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| | | RKH | | | |
| | | 3-30-00 | | | |



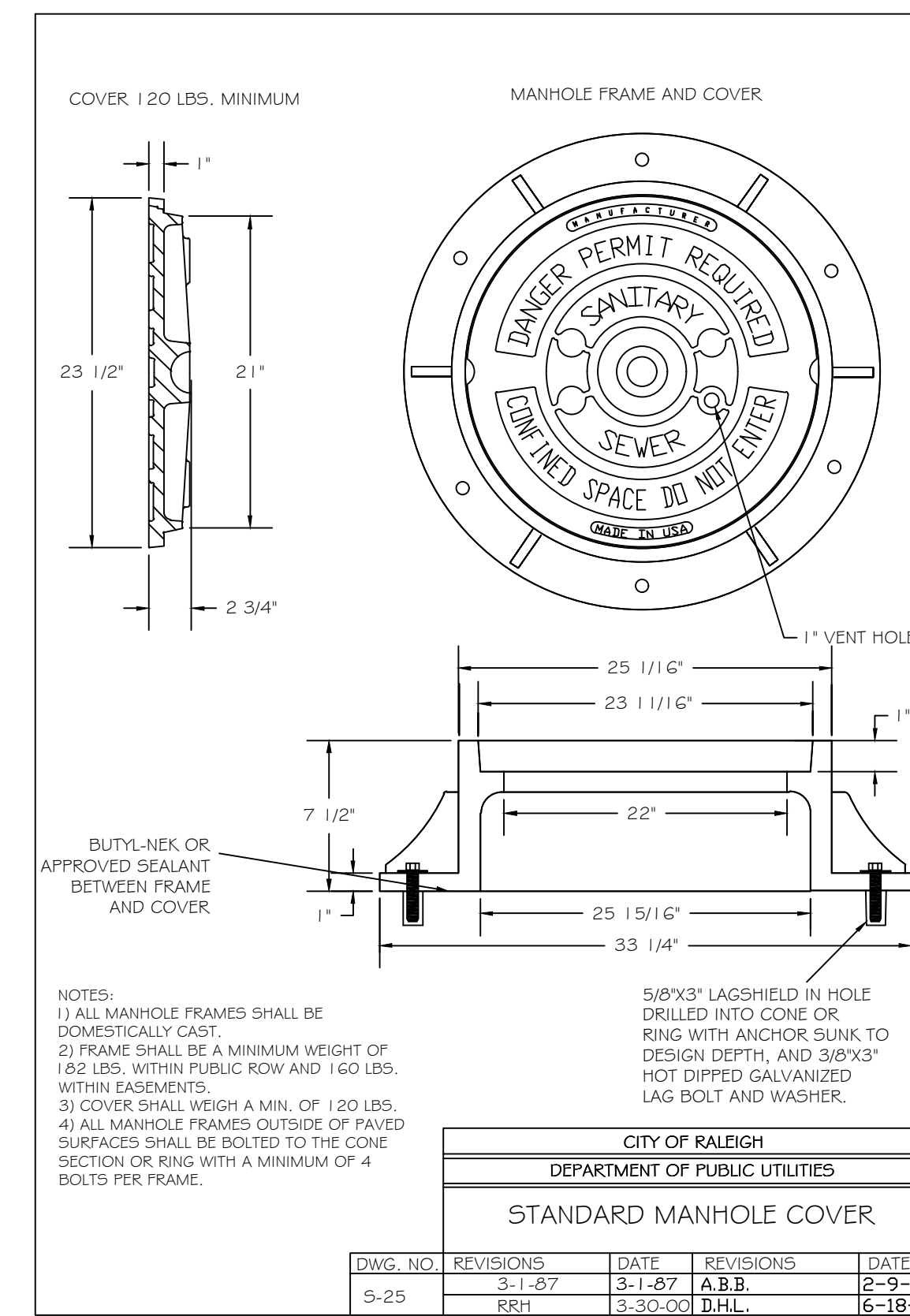
| CITY OF RALEIGH | | | | | |
|---|-----------|----------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| STANDARD PRECAST SANITARY SEWER MANHOLE | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-20 | | Y.C.A. | | | |
| | | 12-31-92 | | | |
| | | ABS | | | |
| | | D.H.L. | | | |
| | | 6-16-08 | | | |



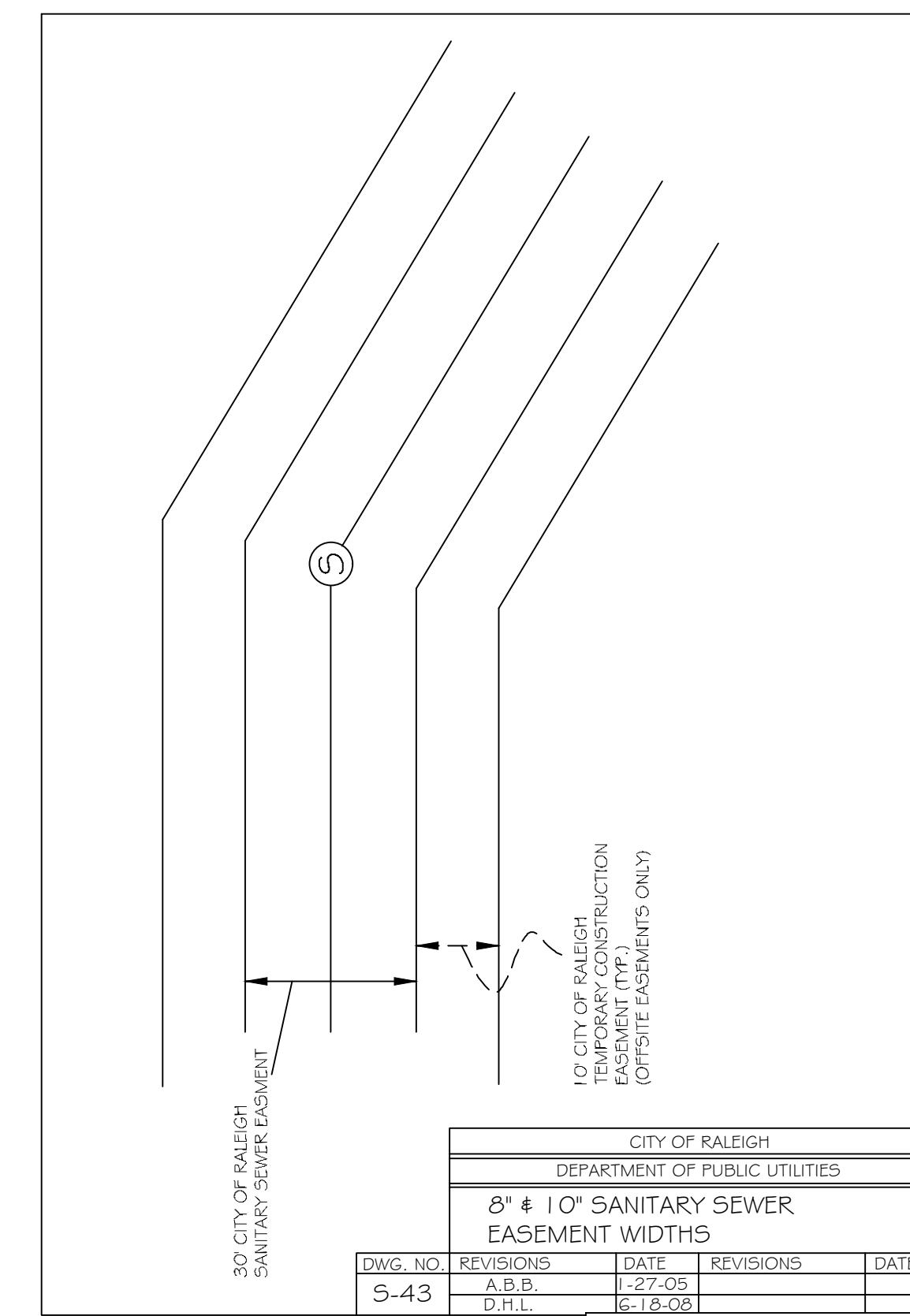
| CITY OF RALEIGH | | | | | |
|---|-----------|-------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-20A | | MSD | | | |
| | | 09-14 | | | |



| CITY OF RALEIGH | | | | | |
|---|-----------|---------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| EXTENDED BASE OR CAST-IN-PLACE REINFORCED CONCRETE BASE | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-21 | | 3-1-87 | | | |
| | | ABS | | | |
| | | 3-30-00 | | | |
| | | RKH | | | |
| | | 6-18-08 | | | |



| CITY OF RALEIGH | | | | | |
|--------------------------------|-----------|---------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| STANDARD MANHOLE COVER | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-25 | | 3-1-87 | | | |
| | | 3-1-87 | | | |
| | | A.B.B. | | | |
| | | 3-30-00 | | | |
| | | D.H.L. | | | |
| | | 6-18-08 | | | |



| CITY OF RALEIGH | | | | | |
|--------------------------------|-----------|---------|-----------|------|--|
| DEPARTMENT OF PUBLIC UTILITIES | | | | | |
| SANITARY SEWER EASEMENT WIDTHS | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| S-43 | | A.B.B. | | | |
| | | 1-27-05 | | | |
| | | D.H.L. | | | |
| | | 6-18-08 | | | |

WATER AND SEWER PERMITS
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-3883.
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 # S-4937.
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations. Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

| REVISIONS | | DATE | BY |
|-----------|--|------------|-----|
| 7 | FINAL SET | 09/17/2022 | DAS |
| 6 | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 | 06/07/2022 | DAS |
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| 1 | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/23/2021 | 01/07/2022 | DAS |

PROJECT ENGINEER/ARCHITECT
AMALEXANDROTS@SUMMITDE.NET
PROJECT MANAGER
DAS@DONSEWER@SUMMITDE.NET

DRAWN BY:
JALAMMY@SHLE@SUMMITDE.NET
FIRST ISSUE DATE
11/01/2021

CITY OF RALEIGH PROFESSIONAL SEAL
24627
09/01/2022

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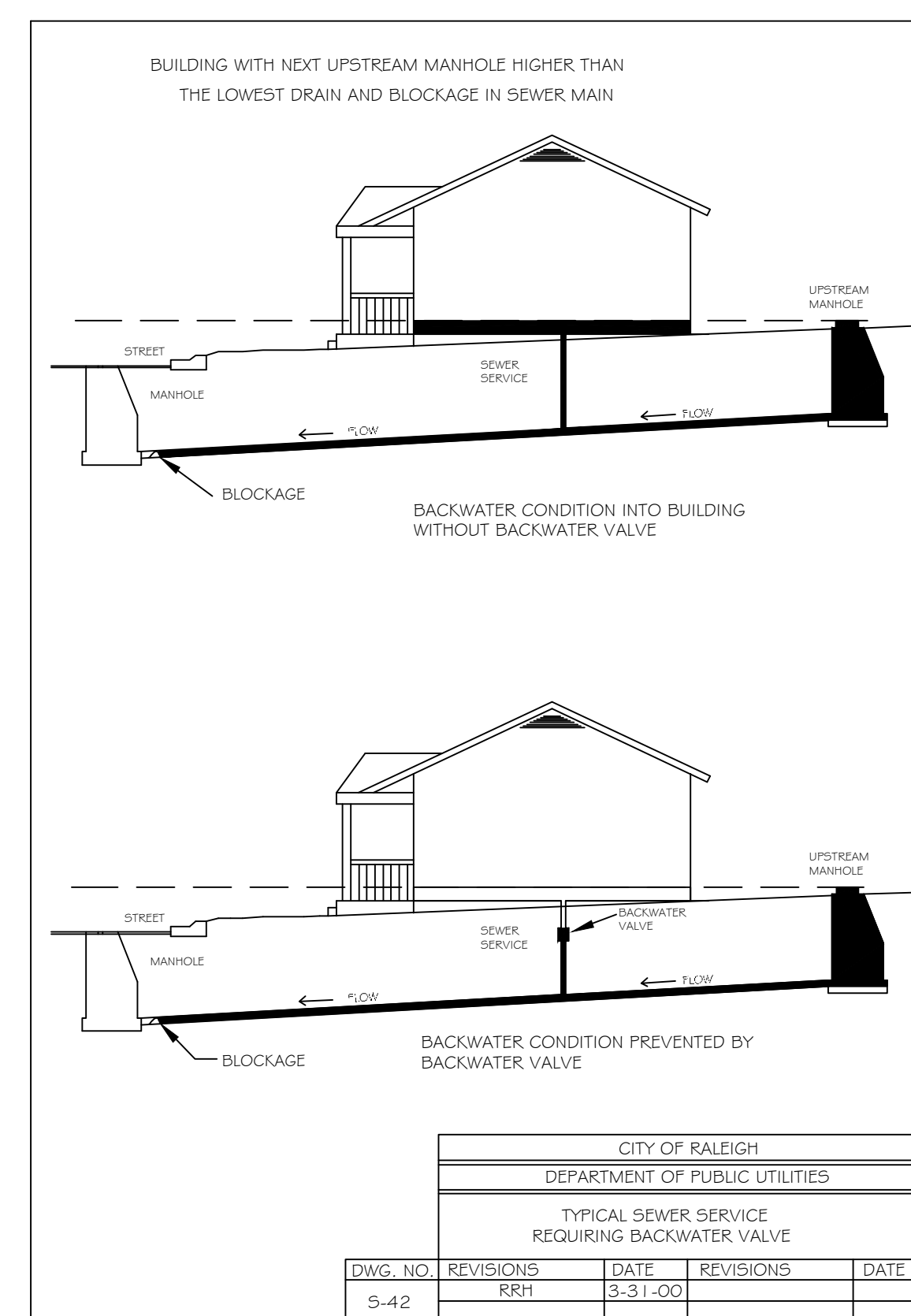
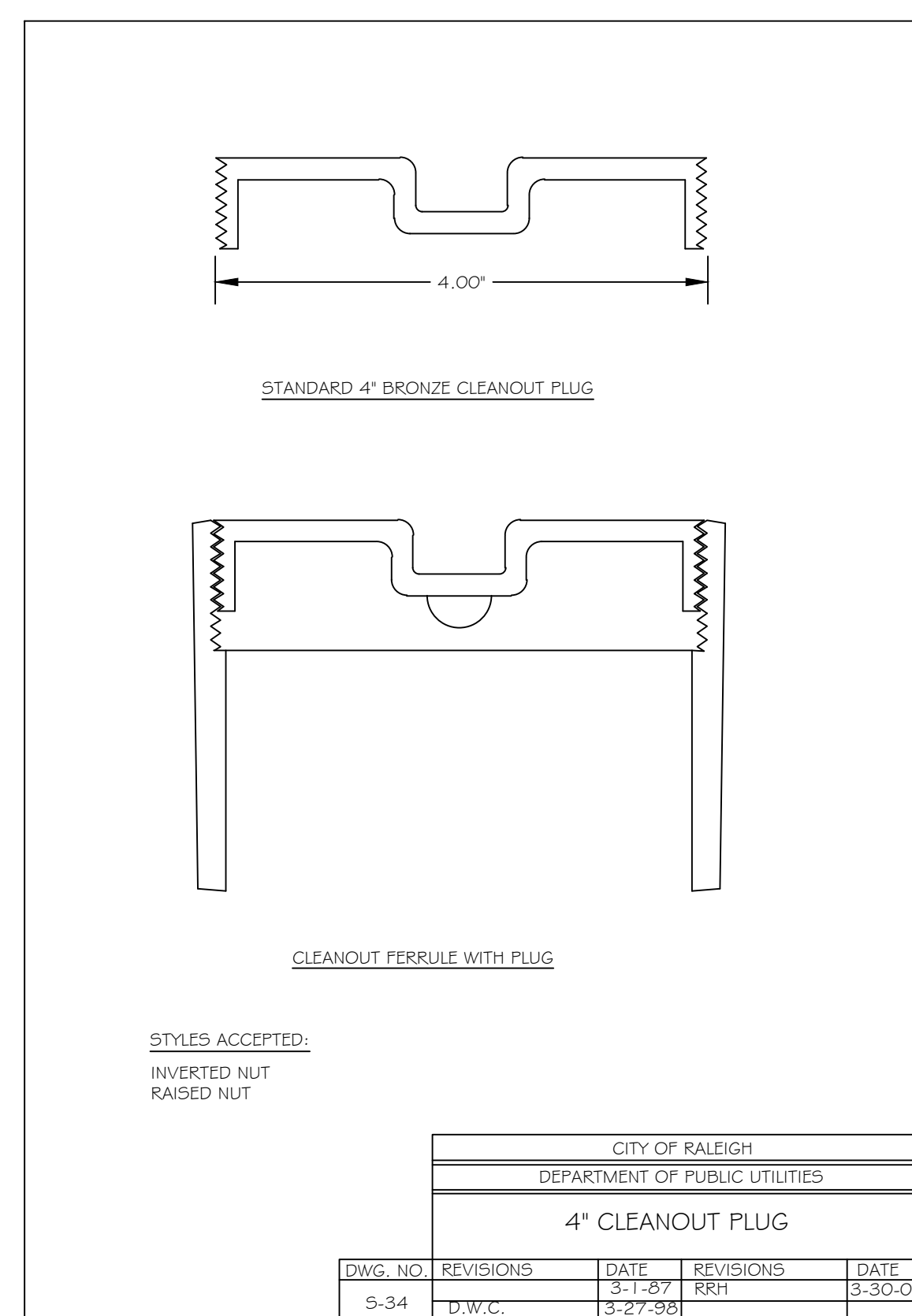
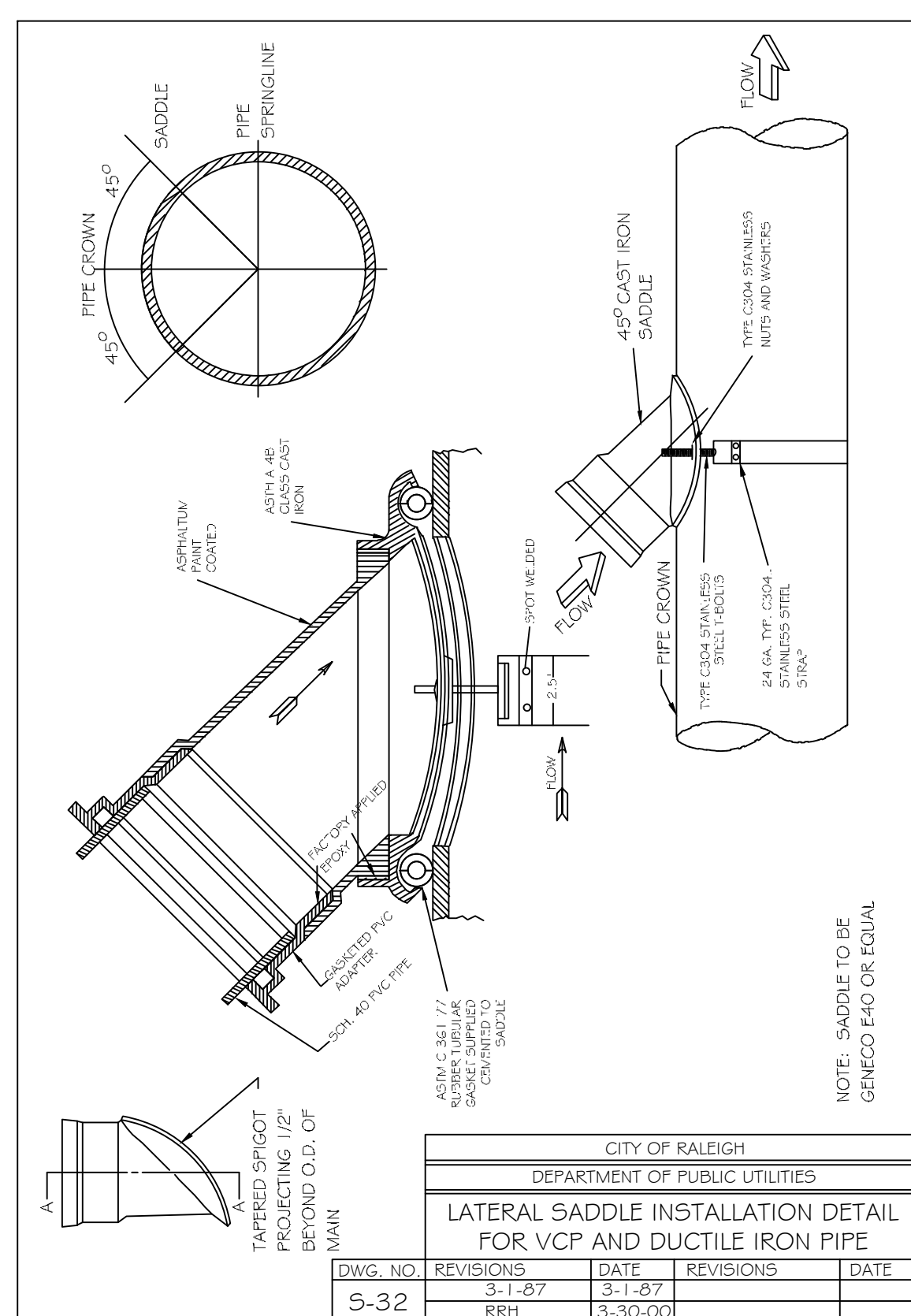
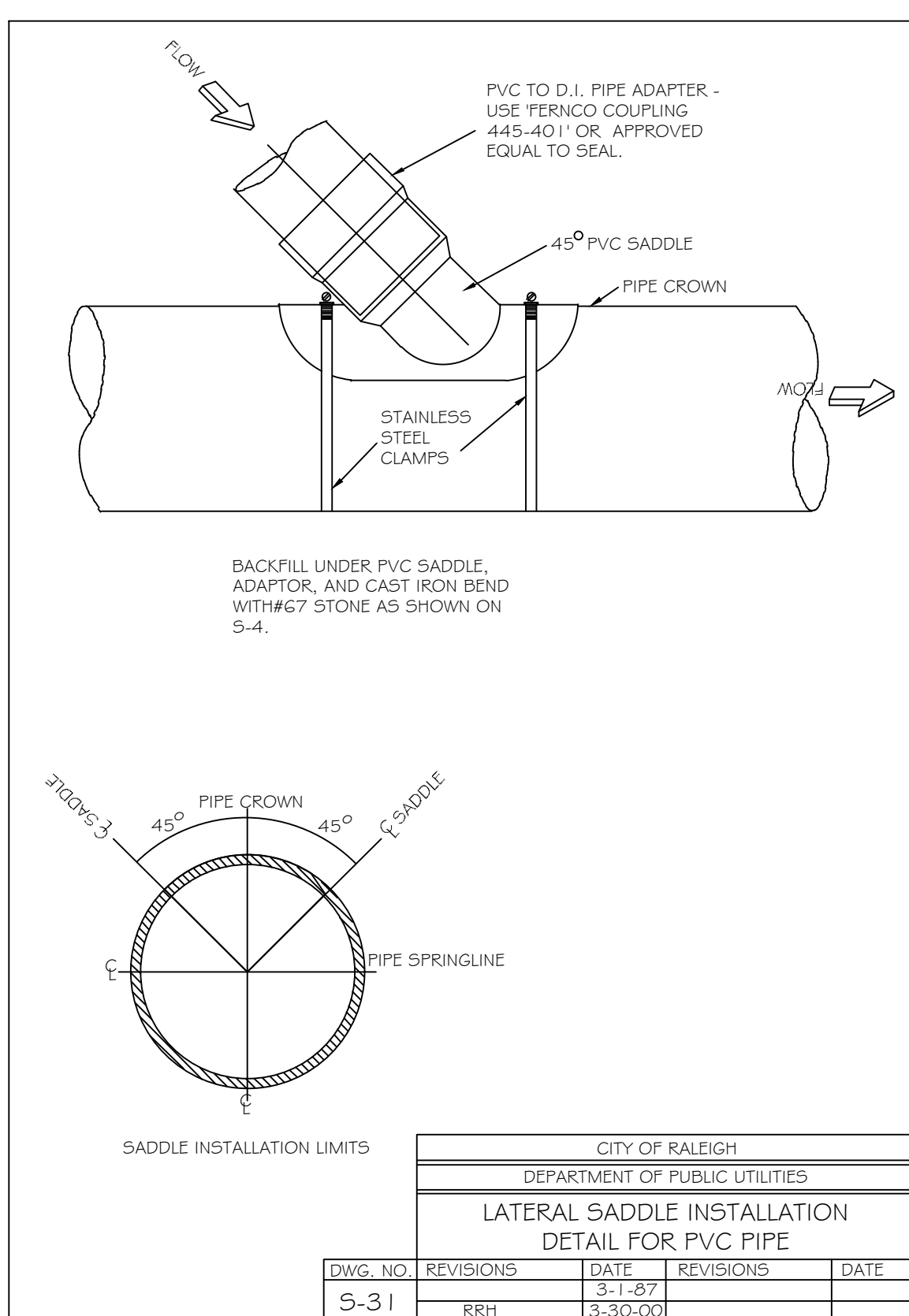
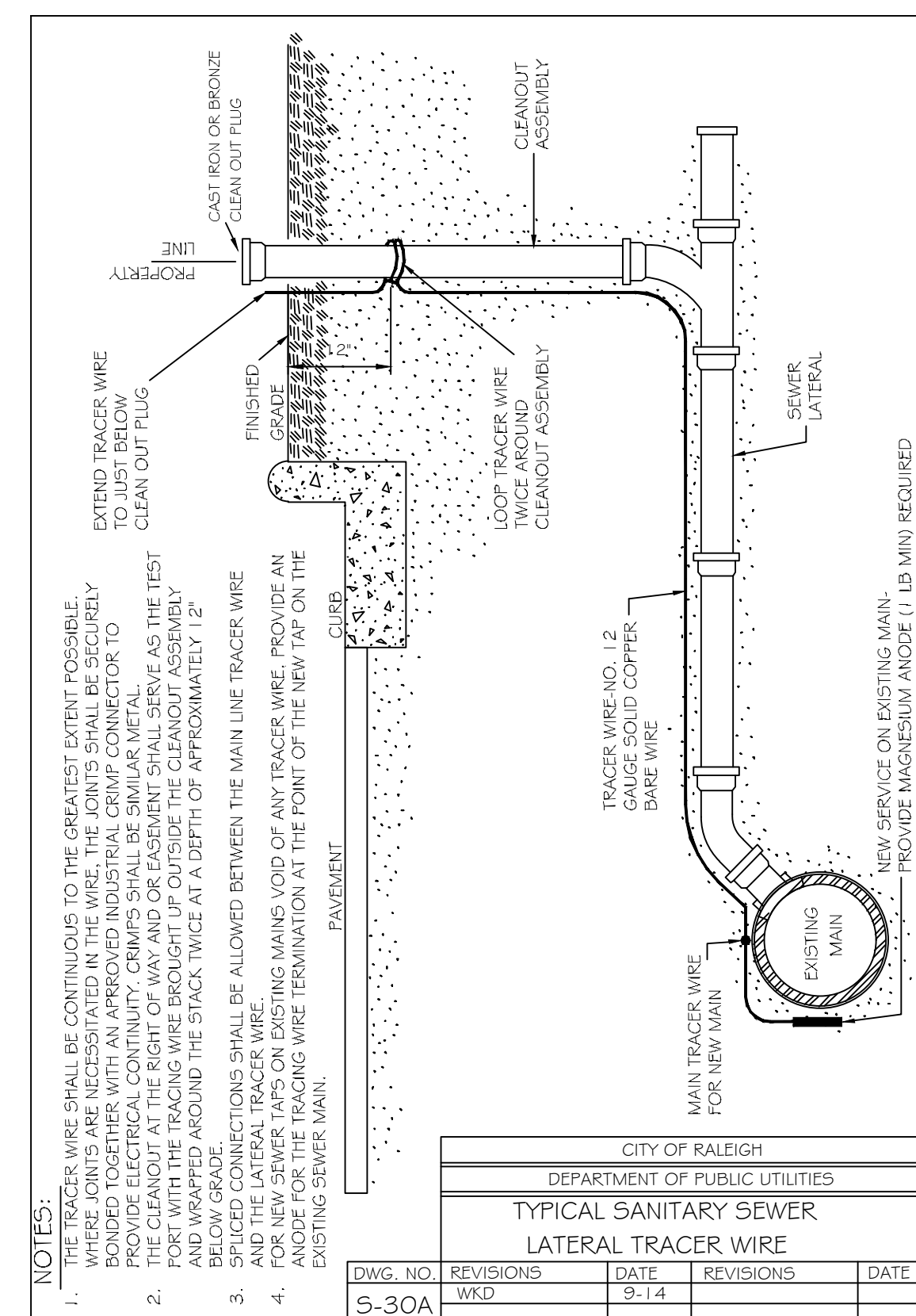
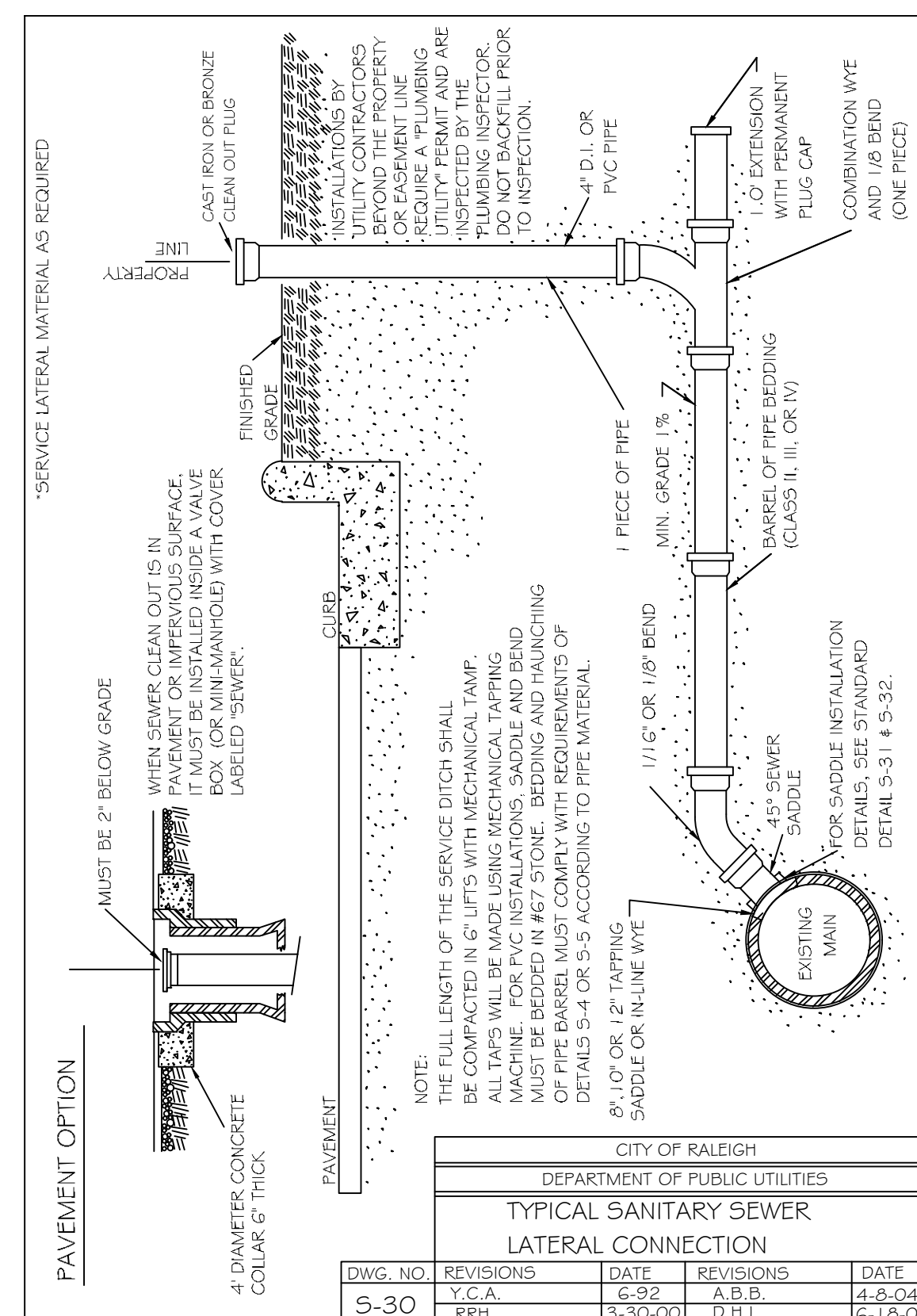
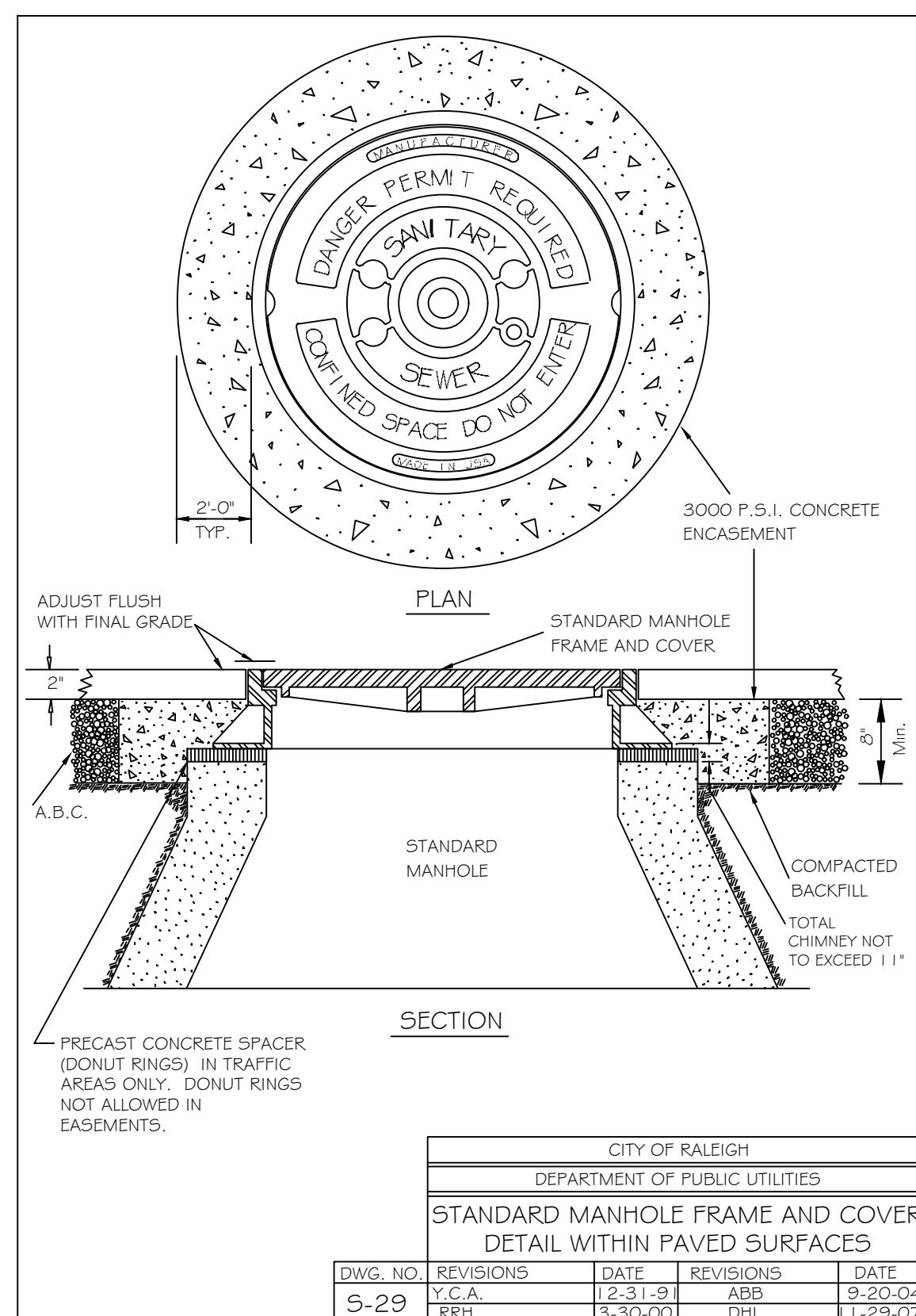
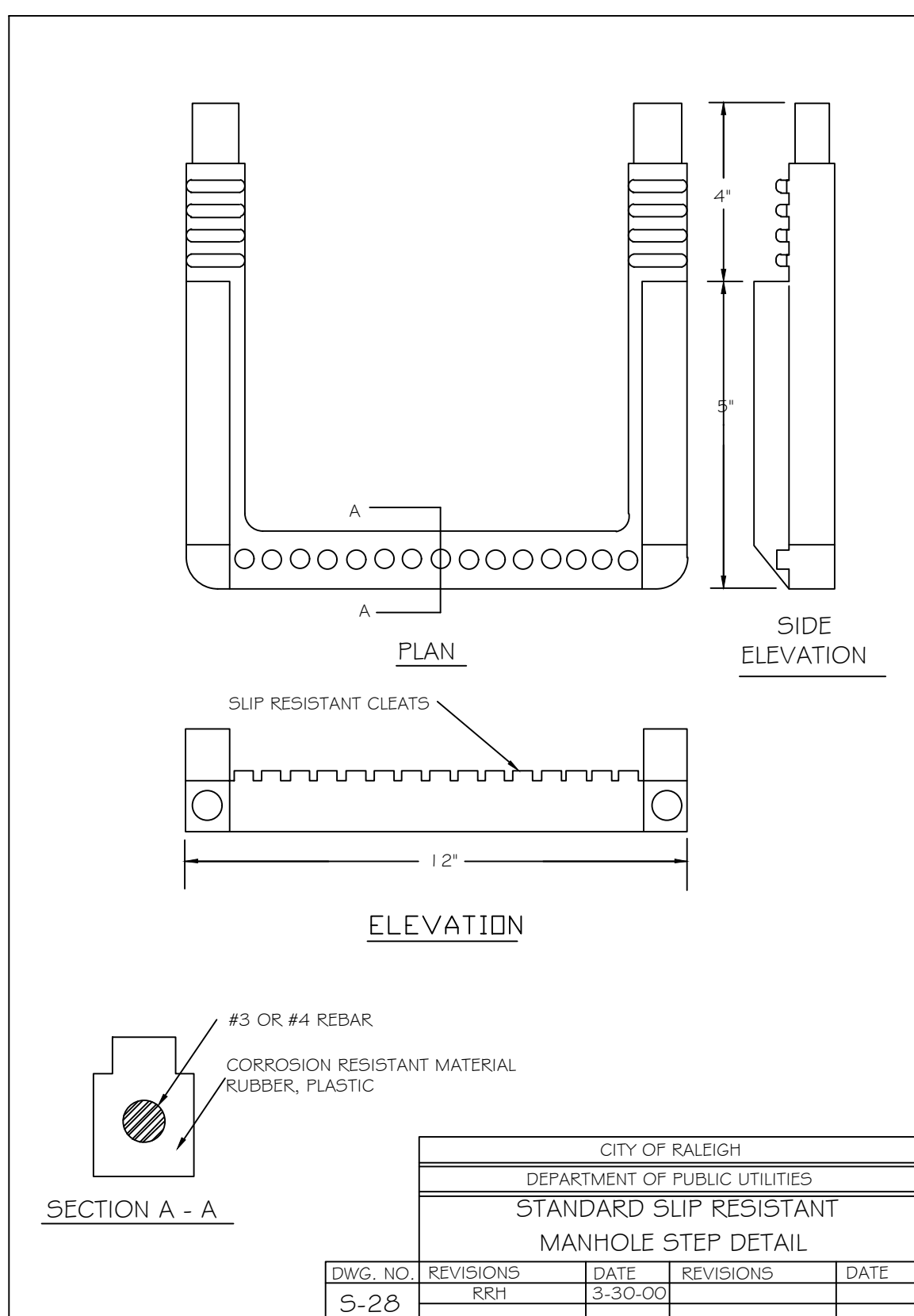
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

SANITARY SEWER DETAILS

PROJECT NO.
19-0103
DRAWING NAME:
19-0103_d.dwg
SHEET NO.
D-9



Know what's below.
Call before you dig.



WATER AND SEWER PERMITS

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

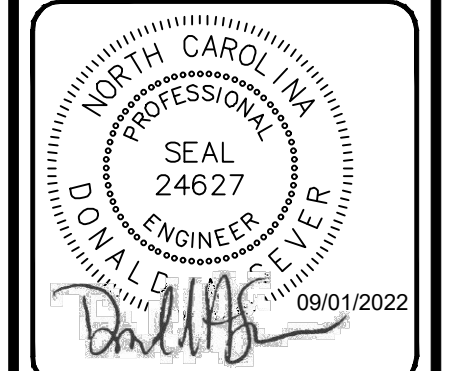
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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

| NO. | DATE | DESCRIPTION |
|-----|------------|-------------|
| 7 | 01/07/2022 | DAS |
| 6 | 06/07/2022 | DAS |
| 5 | 05/03/2022 | DAS |
| 4 | 04/06/2022 | DAS |
| 3 | 03/24/2022 | DAS |
| 2 | 02/25/2022 | DAS |
| 1 | 01/07/2022 | DAS |

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PROJECT MANAGER
DAS/DON.SEVIER@SUMMITDE.NET
DRAWN BY
J.ALMY/ASHLEY@SUMMITDE.NET
FIRST ISSUE DATE
11-01-2021

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TYPICAL SANITARY SEWER
LATERAL TRACER WIRE



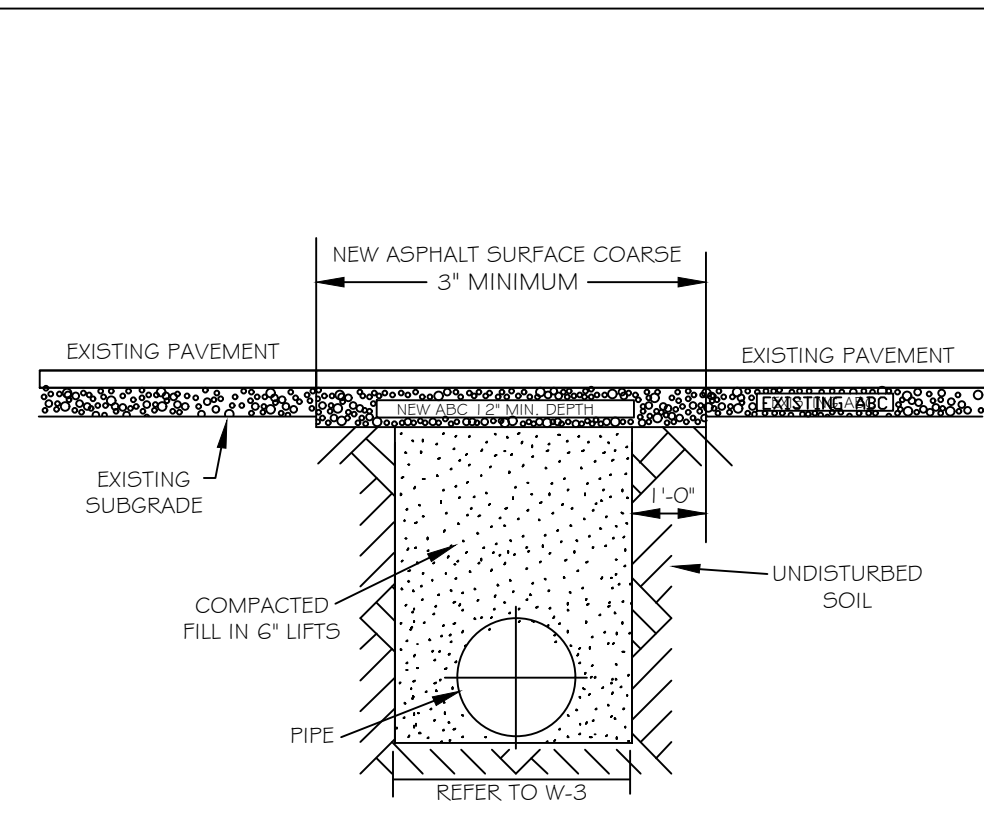
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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

SANITARY SEWER DETAILS

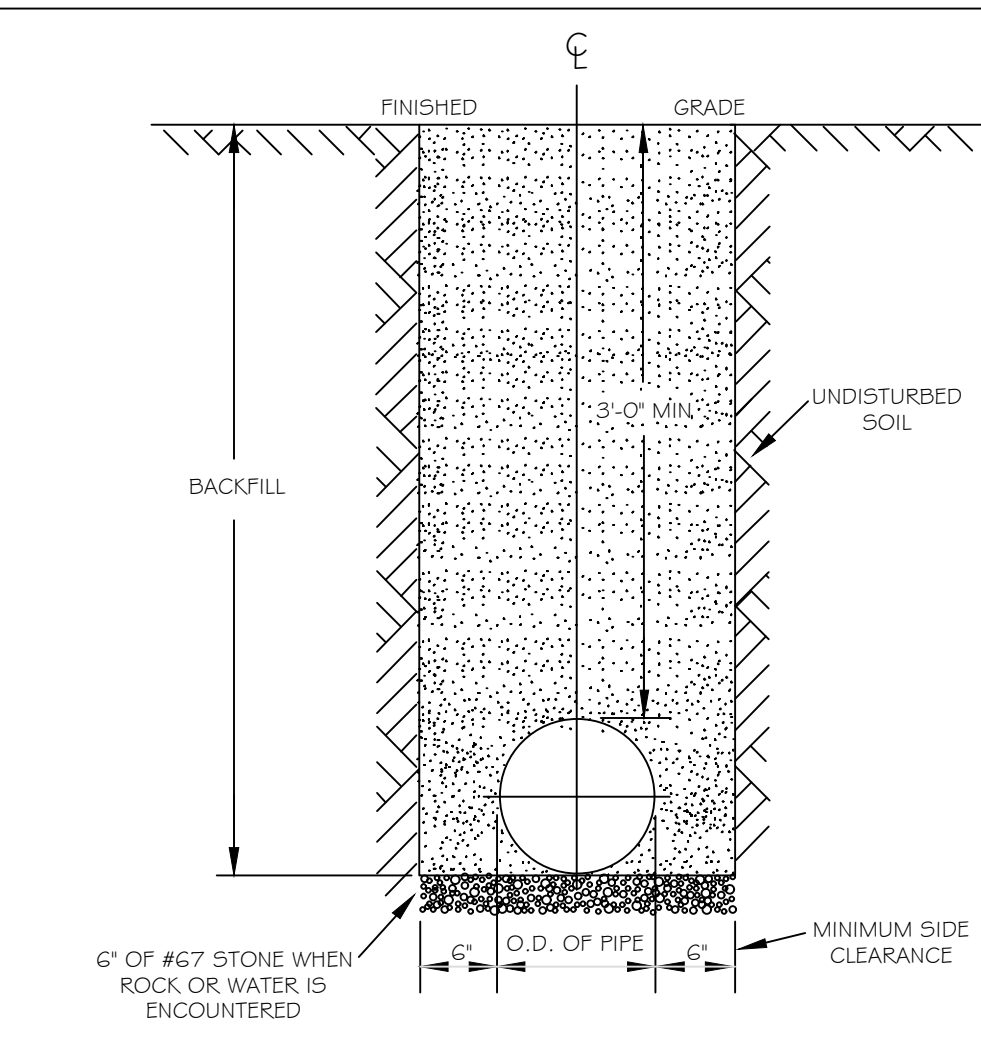
PROJECT NO.
19-0103
DRAWING NAME:
19-0103_d.dwg
SHEET NO.
D-10





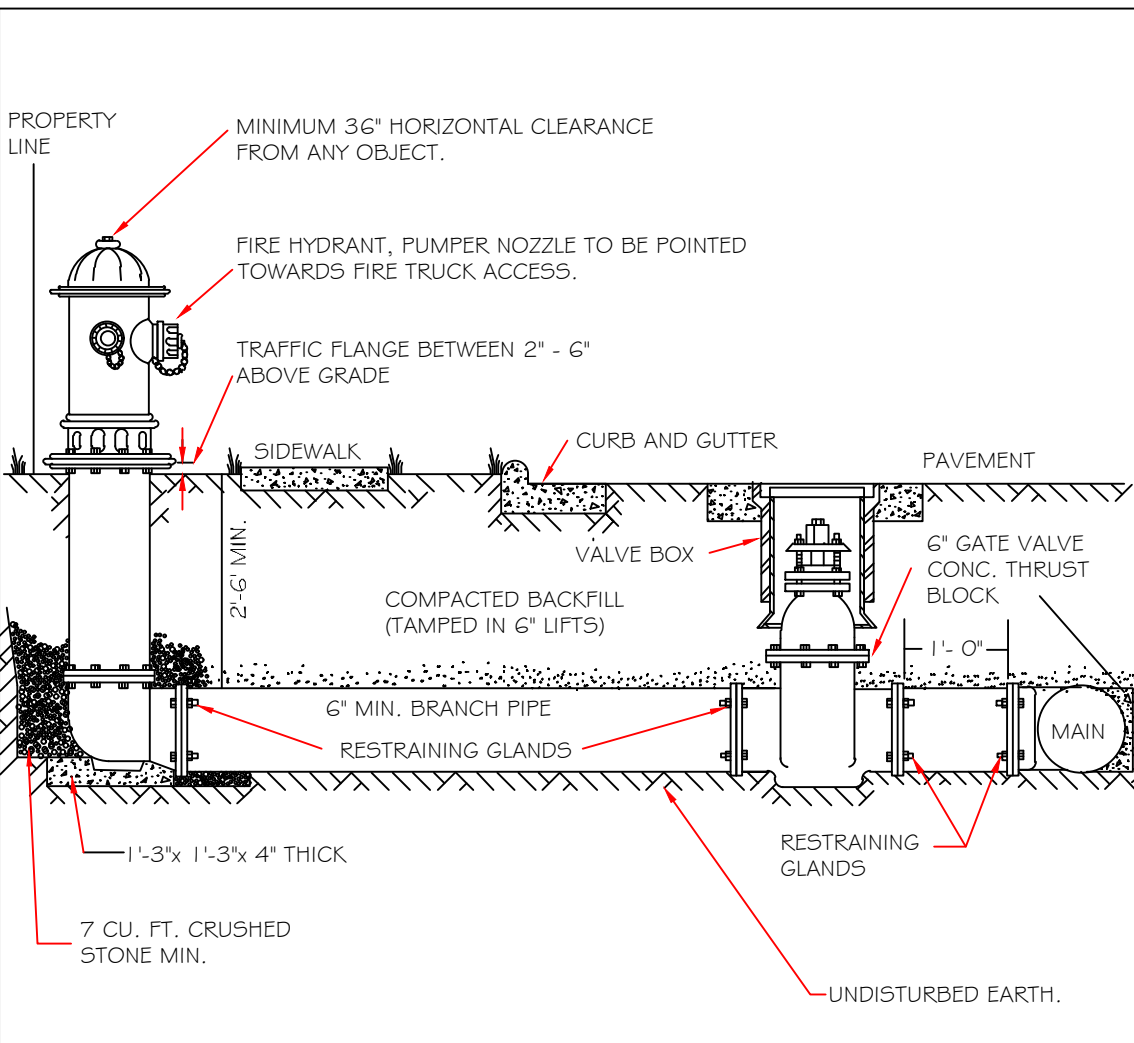
- NOTES:
1. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAW CUT MACHINE.
 2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
 3. THE FINAL 1\"/>

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|---|-----------|---------|-----------|----------|--|
| STANDARD ASPHALT PAVEMENT PATCH DETAIL | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-2 | | | | | |
| | RRH | 3-31-00 | A.B.B. | 4-18-04 | |
| | D.W.C. | 11-1-99 | J.F.S. | 10-29-10 | |



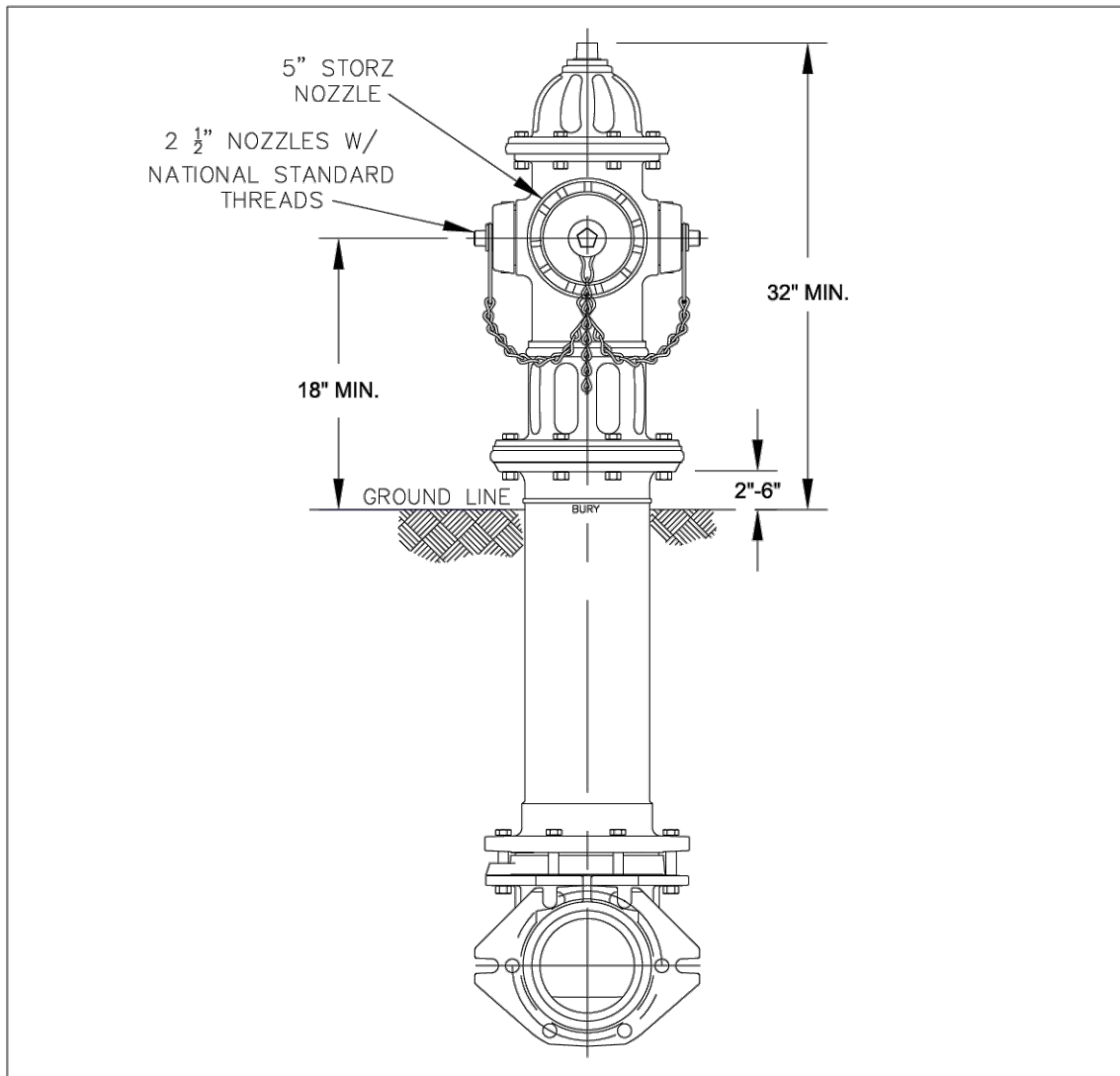
- NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
 2. NO ROCKS OR BOULDERS 4\"/>

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|--|-----------|---------|-----------|----------|--|
| TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-3 | | | | | |
| | RRH | 3-31-00 | J.F.S. | 10-29-10 | |



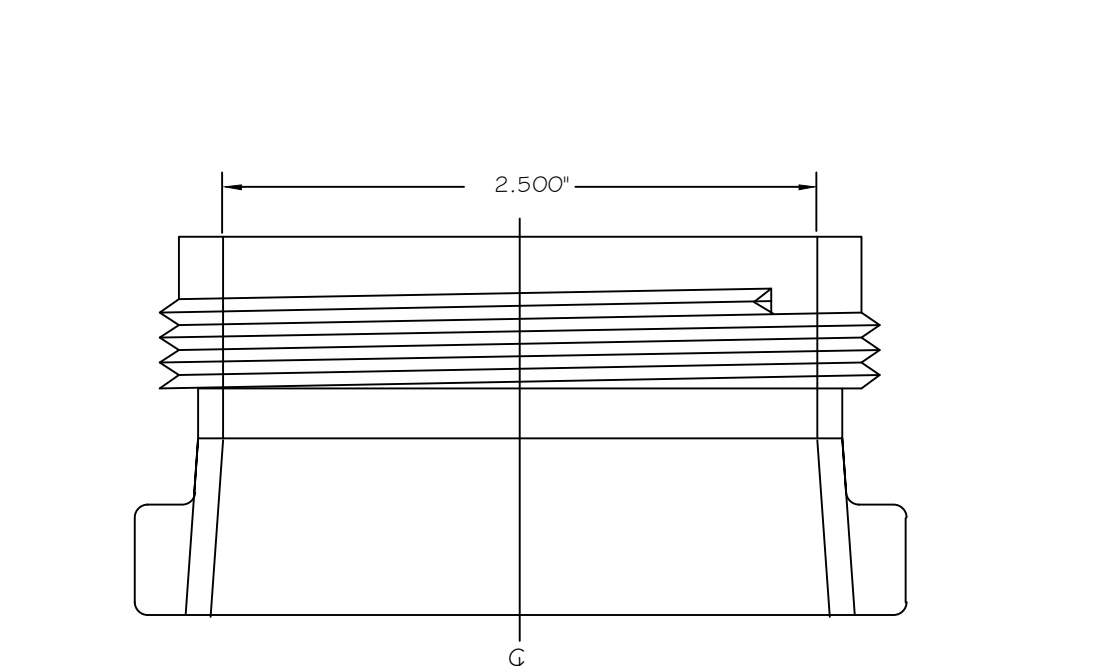
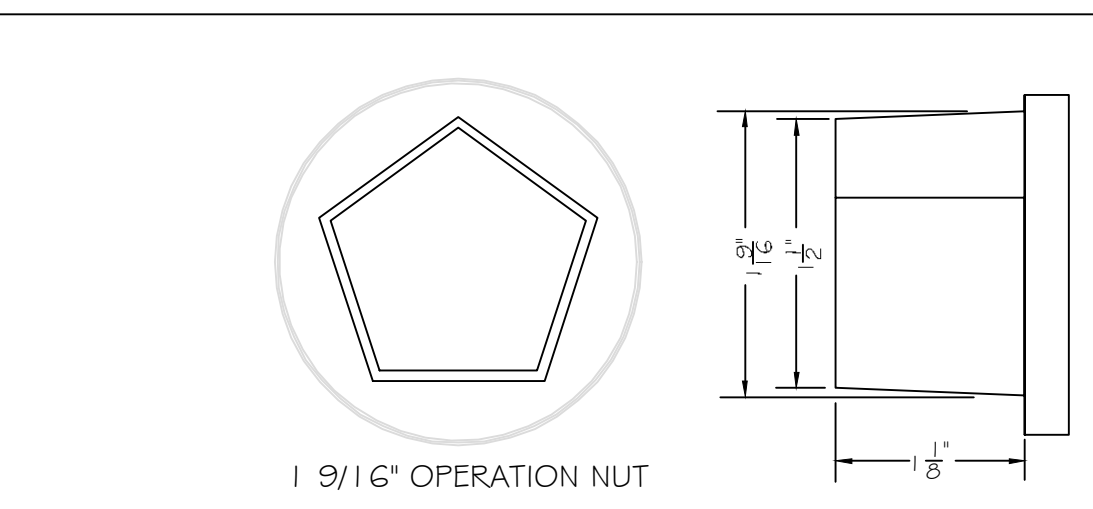
- NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, MHI, WATERLOUS, GLOW, EAST JORDAN IRON WORKS, OR US PIPE.
 2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96.
 3. GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT.
 4. STEEL RODS AND BOLTS SHALL BE #1 HOT DIP GALVANIZED.
 5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION.

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|---|-----------|---------|-----------|----------|--|
| STANDARD FIRE HYDRANT INSTALLATION DETAIL | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-4 | | | | | |
| | RRH | 3-31-00 | A.B.B. | 2-15-05 | |
| | D.H.L. | 27-4-06 | F.A.P. | 01-17-09 | |

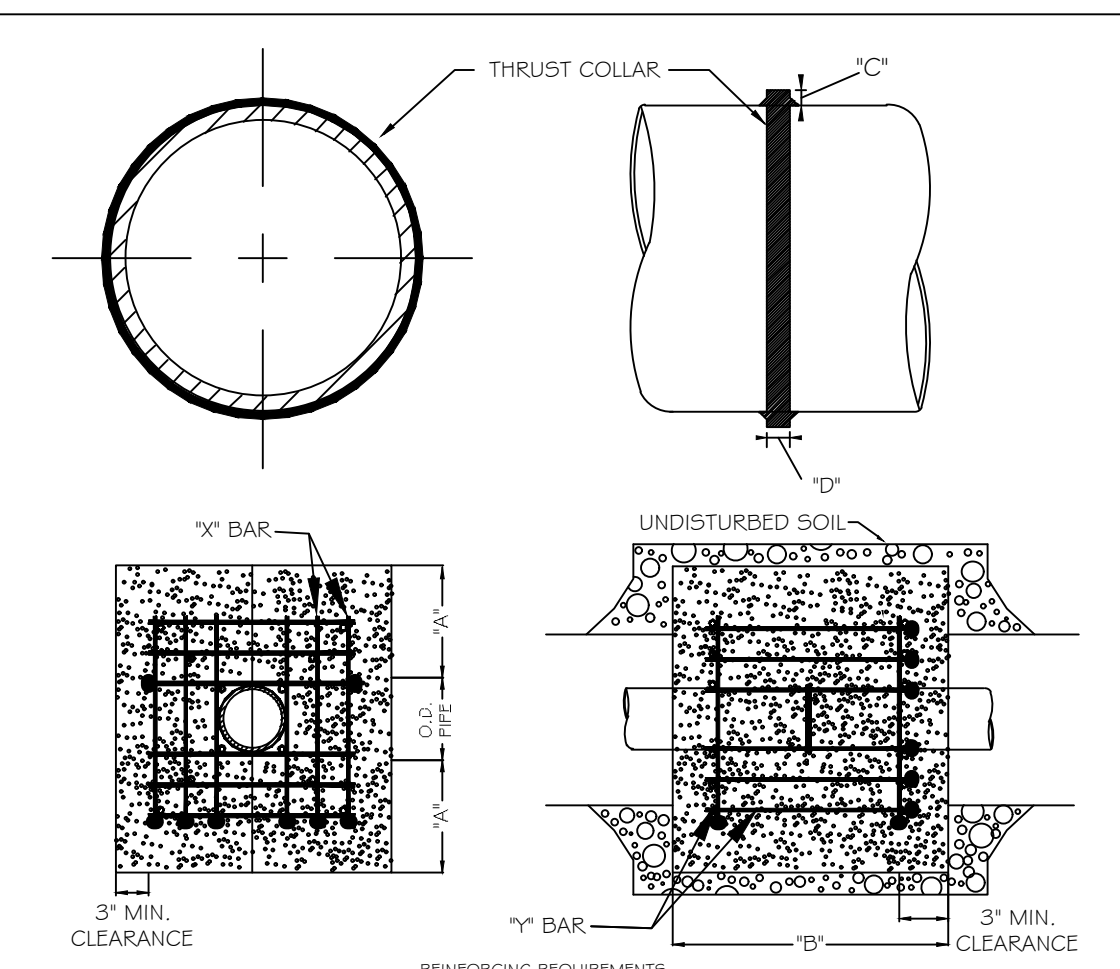


- NOTES:
1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.
 2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES RALEIGH, GARNER, KNIGHTDALE, ROLESVILLE, WAKE FOREST, WENDELL & ZEBULON | | | | | |
|---|-----------|---------|-----------|------|--|
| STANDARD FIRE HYDRANT WITH 5\"/> | | | | | |
| DWG. | REVISIONS | DATE | REVISIONS | DATE | |
| W-5 | | | | | |
| | M.A.B. | 4-30-16 | | | |
| | K.A.T. | 9-15-17 | | | |



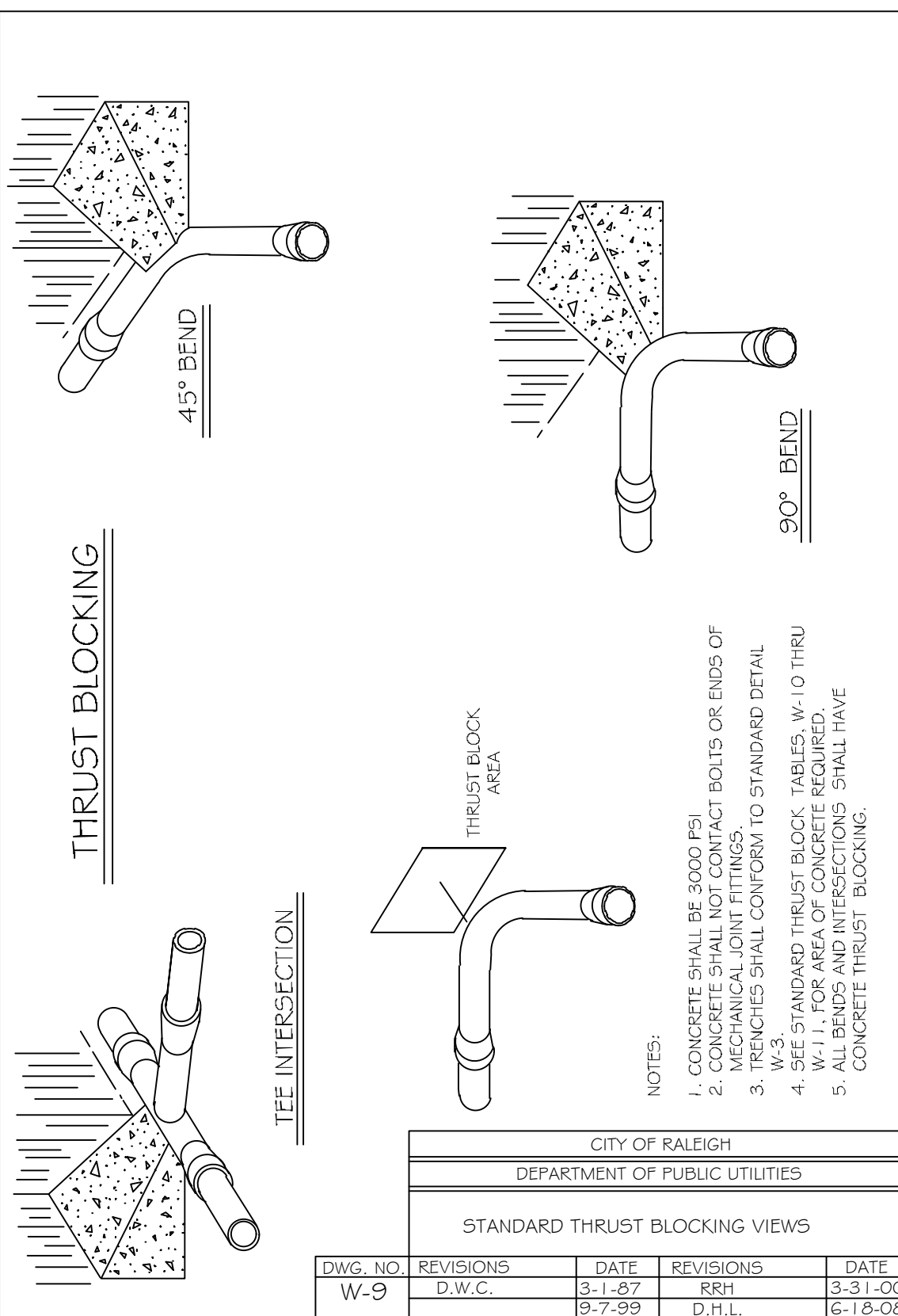
| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|---|-----------|---------|-----------|---------|--|
| HYDRANT OPERATING NUT AND 2 1/2\"/> | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-6 | | | | | |
| | RRH | 3-31-00 | D.H.L. | 2-18-06 | |
| | A.B.B. | 4-13-04 | J.F.S. | 11-1-10 | |



| REINFORCING REQUIREMENTS | | | | | |
|--------------------------|------------|---|----------------|----------------|--------------|
| I.D. PIPE | REBAR SIZE | # | "X" BAR WEIGHT | "X" BAR LENGTH | # BAR WEIGHT |
| 6\"/> | | | | | |

- NOTES:
1. SEE STANDARD DETAIL W-9 FOR THRUST BLOCK LOCATIONS.
 2. CONCRETE SHALL BE 3000 PSI AND TRANSIT MIXED.
 3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
 4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON STANDARD DETAIL W-3.
 5. BACKFILL TAMPED IN 6\"/>

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|---|-----------|--------|-----------|---------|--|
| THRUST BLOCKING DESIGN DATA FOR WATER MAINS | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-7 | | | | | |
| | RRH | 2-1-00 | J.F.S. | 11-1-10 | |



| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|---|-----------|--------|-----------|---------|--|
| STANDARD THRUST BLOCKING VIEWS | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-9 | | | | | |
| | D.W.C. | 3-1-87 | RRH | 3-31-00 | |
| | | 9-7-99 | D.H.L. | 6-18-08 | |

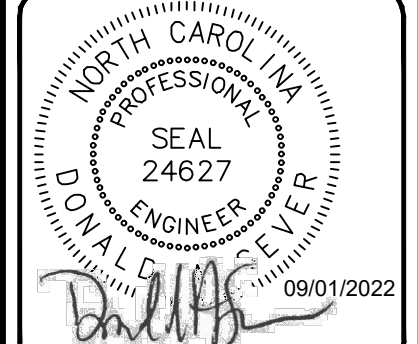
| REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 P.S.I. | | | | | | | | | | | |
|--|-------------------------|--|--------------------|---------------------|----------|---------|--------|-----------|-------------------|----------------|-------------------------|
| ALL AREAS GIVEN IN SQUARE FEET | | | | | | | | | | | |
| SIZE AND DEGREE OF BEND | STATIC THRUST IN POUNDS | MINIMUM TEST PRESSURE CLAY 4000 LB/SQ FT | SAND 2000 LB/SQ FT | LOESS 2000 LB/SQ FT | CONCRETE | ASPHALT | GRAVEL | DIRT CLAY | SAND CONTACT FIRM | SAND CLEAN DRY | SOIL LOAD 1500 LB/SQ FT |
| 6\"/> | | | | | | | | | | | |

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | | | |
|---|-----------|---------|-----------|------|--|
| THRUST BLOCKING DESIGN QUANTITY TABLE | | | | | |
| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
| W-10 | | | | | |
| | D.W.C. | 6-23-99 | | | |



| DWG. NO. | REVISIONS | DATE | REVISIONS | DATE | |
|------------|-----------|------|-----------|------|--|
| 39/07/2022 | DAS | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 5 | | | | | |
| 4 | | | | | |
| 3 | | | | | |
| 2 | | | | | |
| 1 | | | | | |

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 PROJECT MANAGER: D.A.S/DON@SUMMITDE.NET
 DRAWING AUTHORITY: J.A.LUMLEY@SUMMITDE.NET
 FIRST ISSUE DATE: 11-01-2021



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CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

WATER SERVICE DETAILS

PROJECT NO.
19-0103
 DRAWING NAME:
 19-0103_d.dwg
 SHEET NO.
D-11

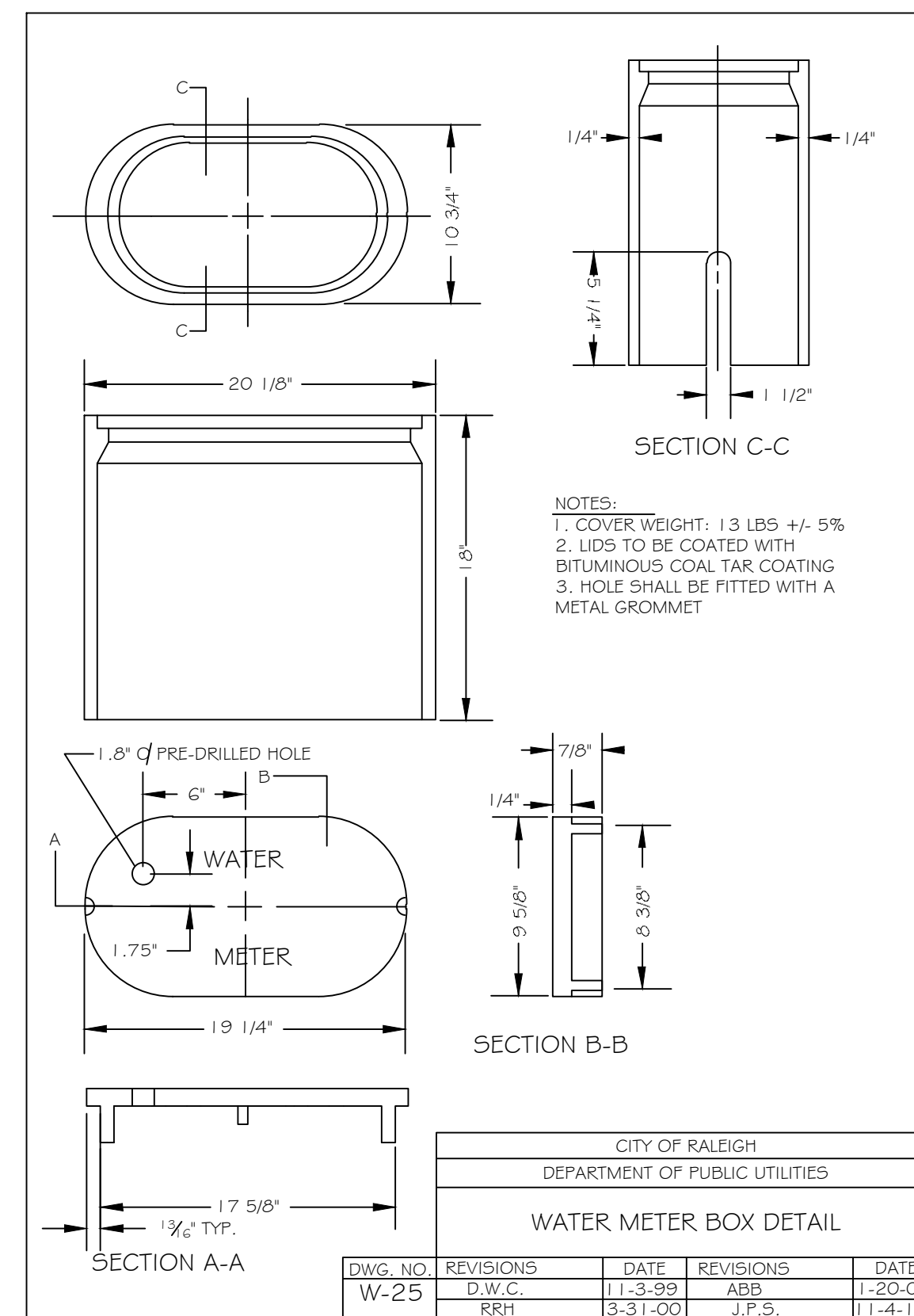
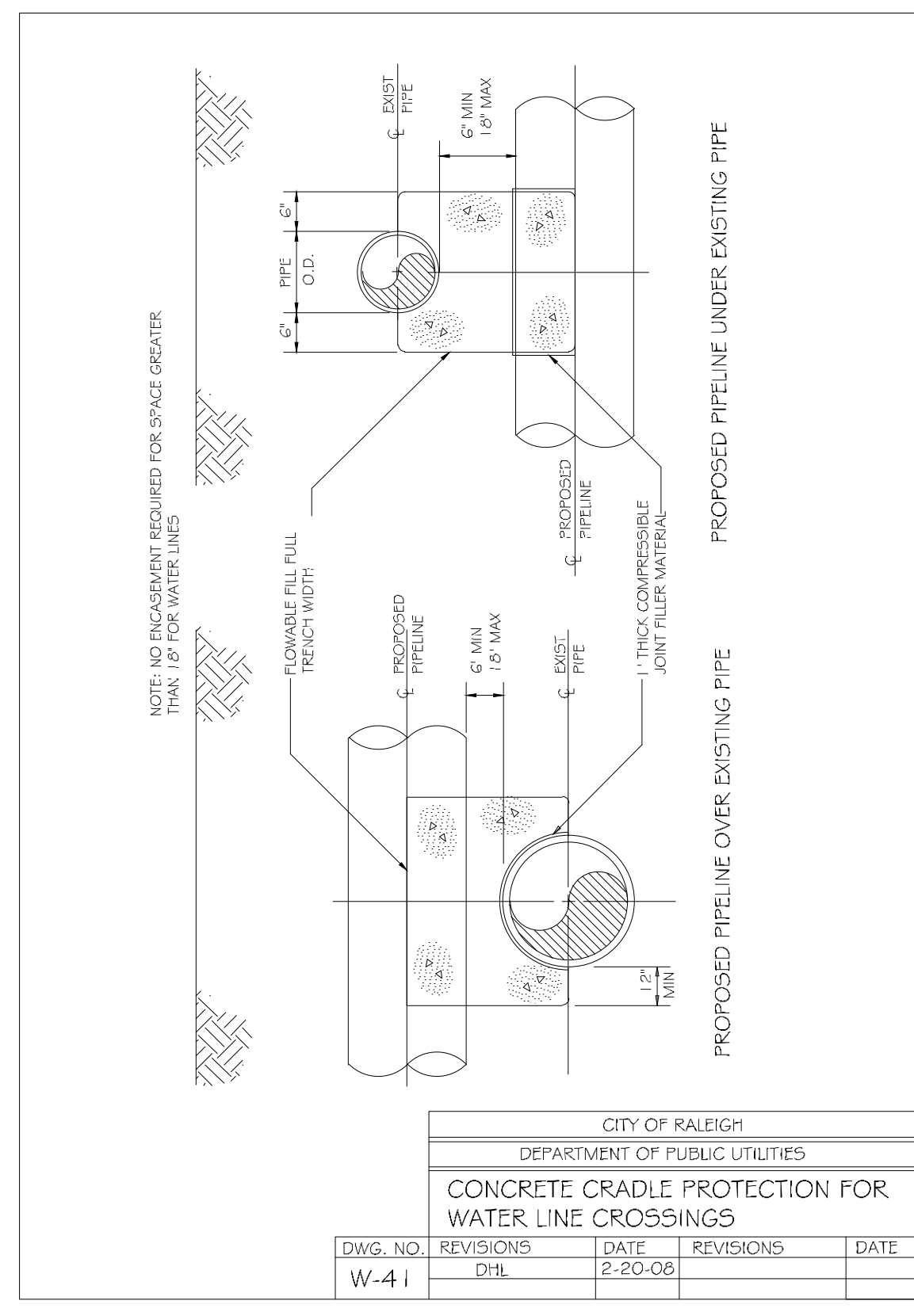
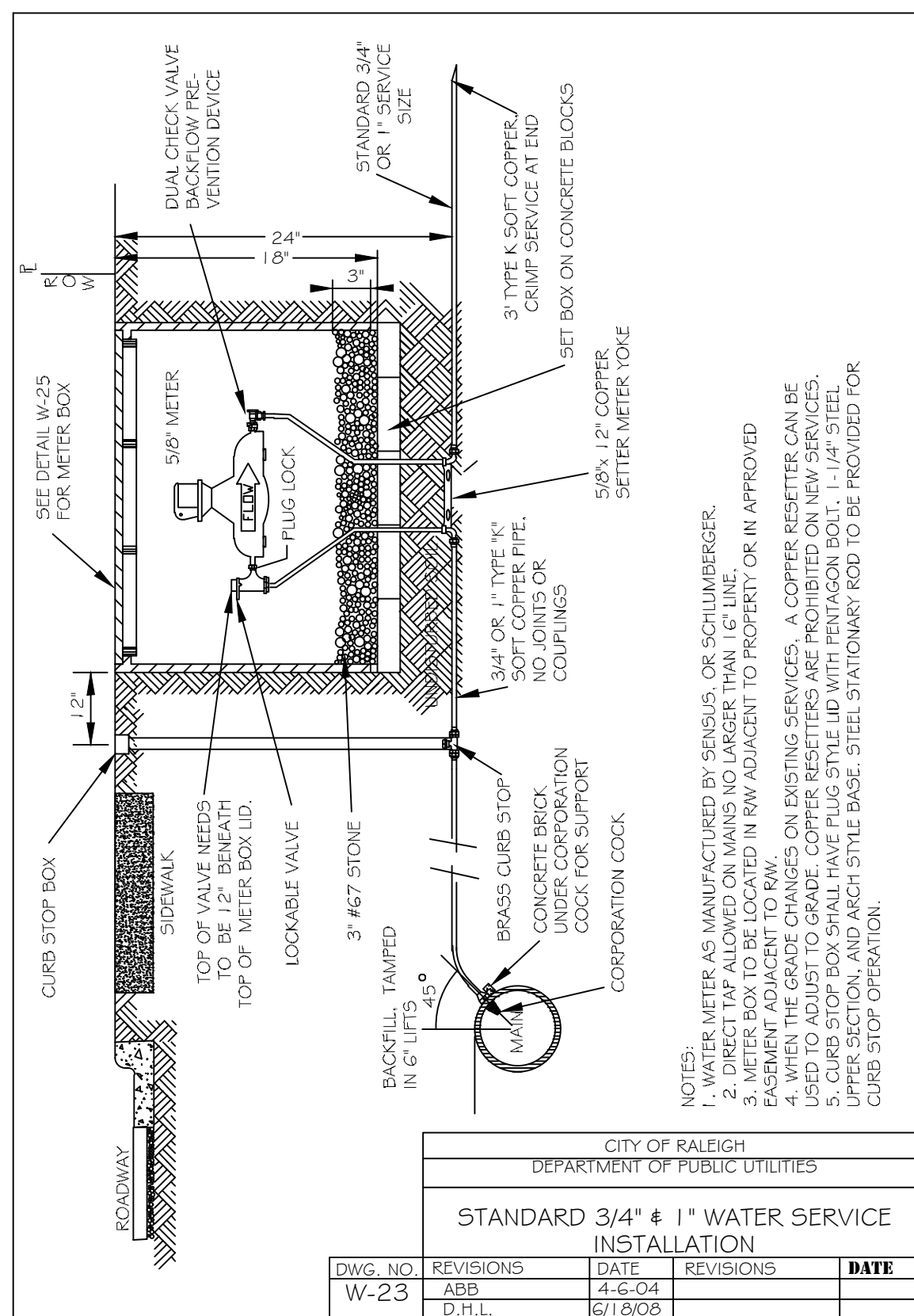
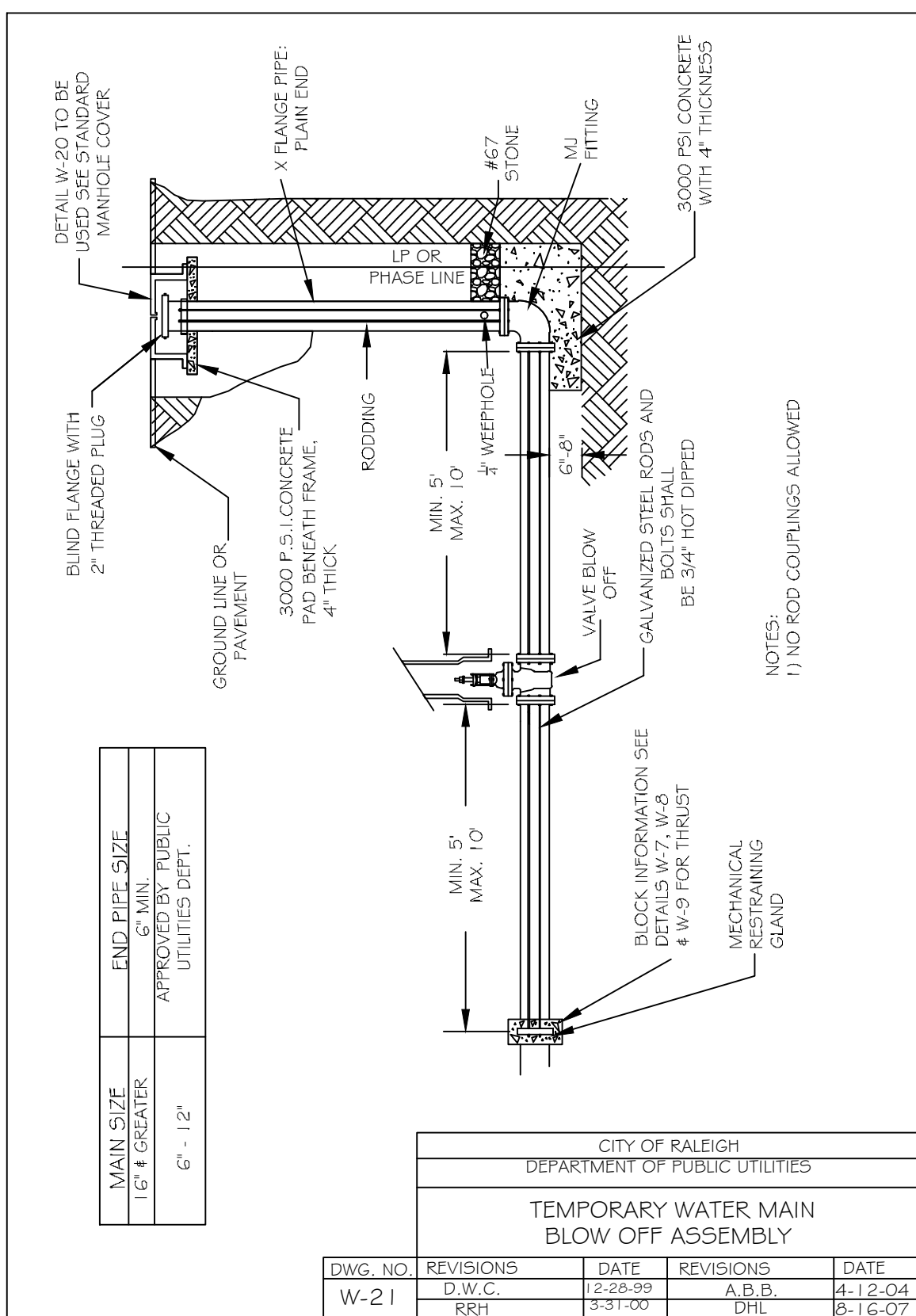
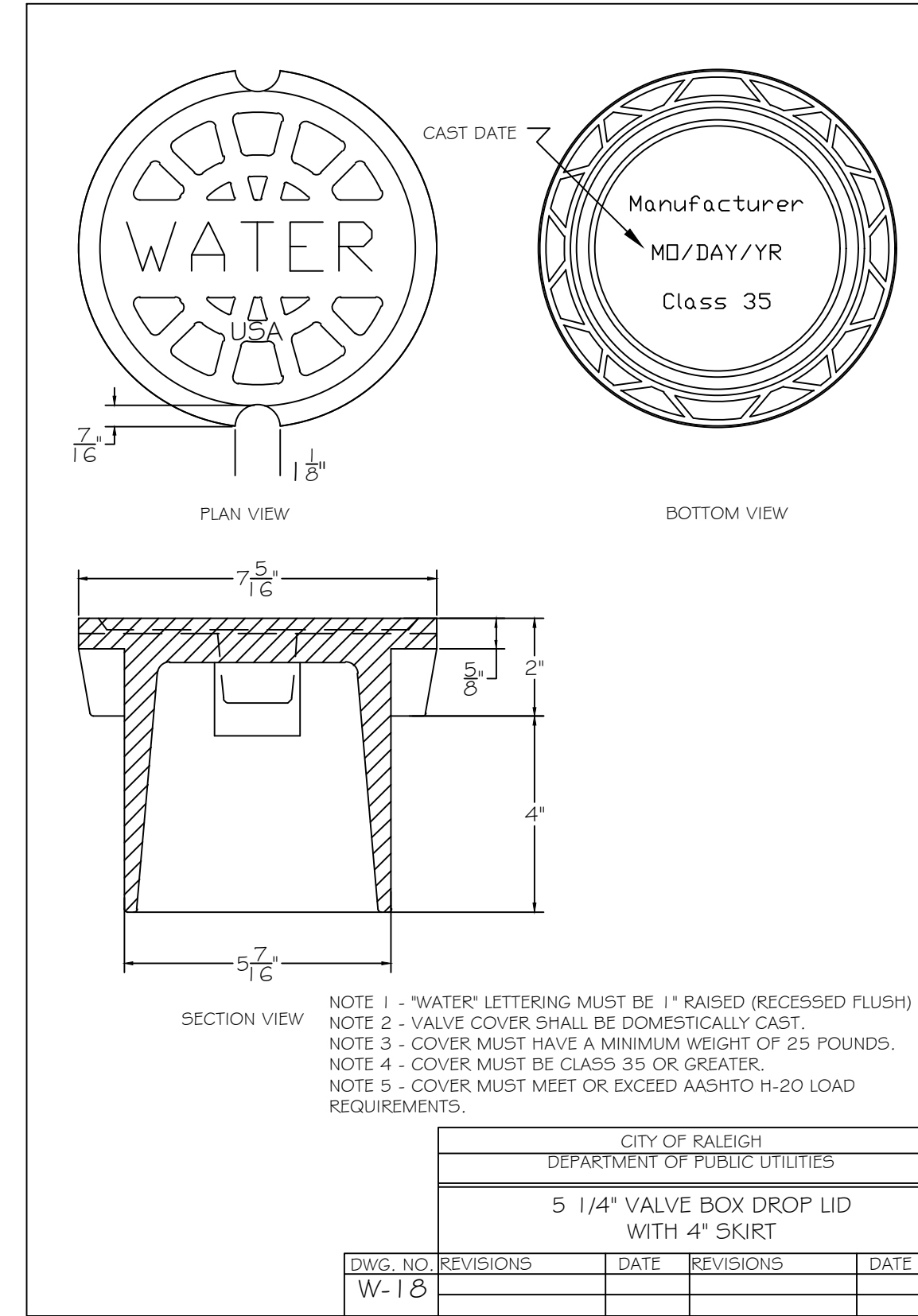
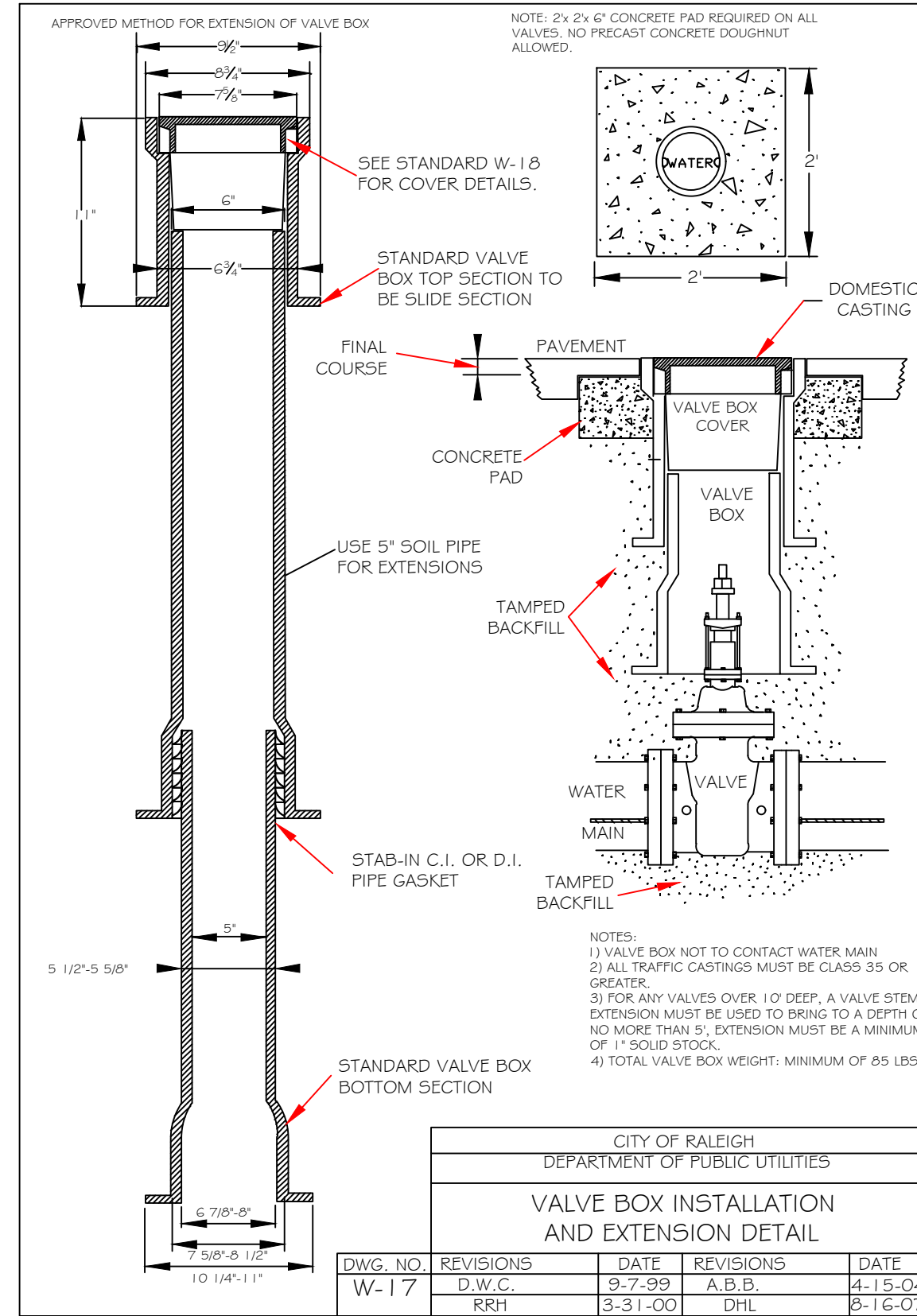
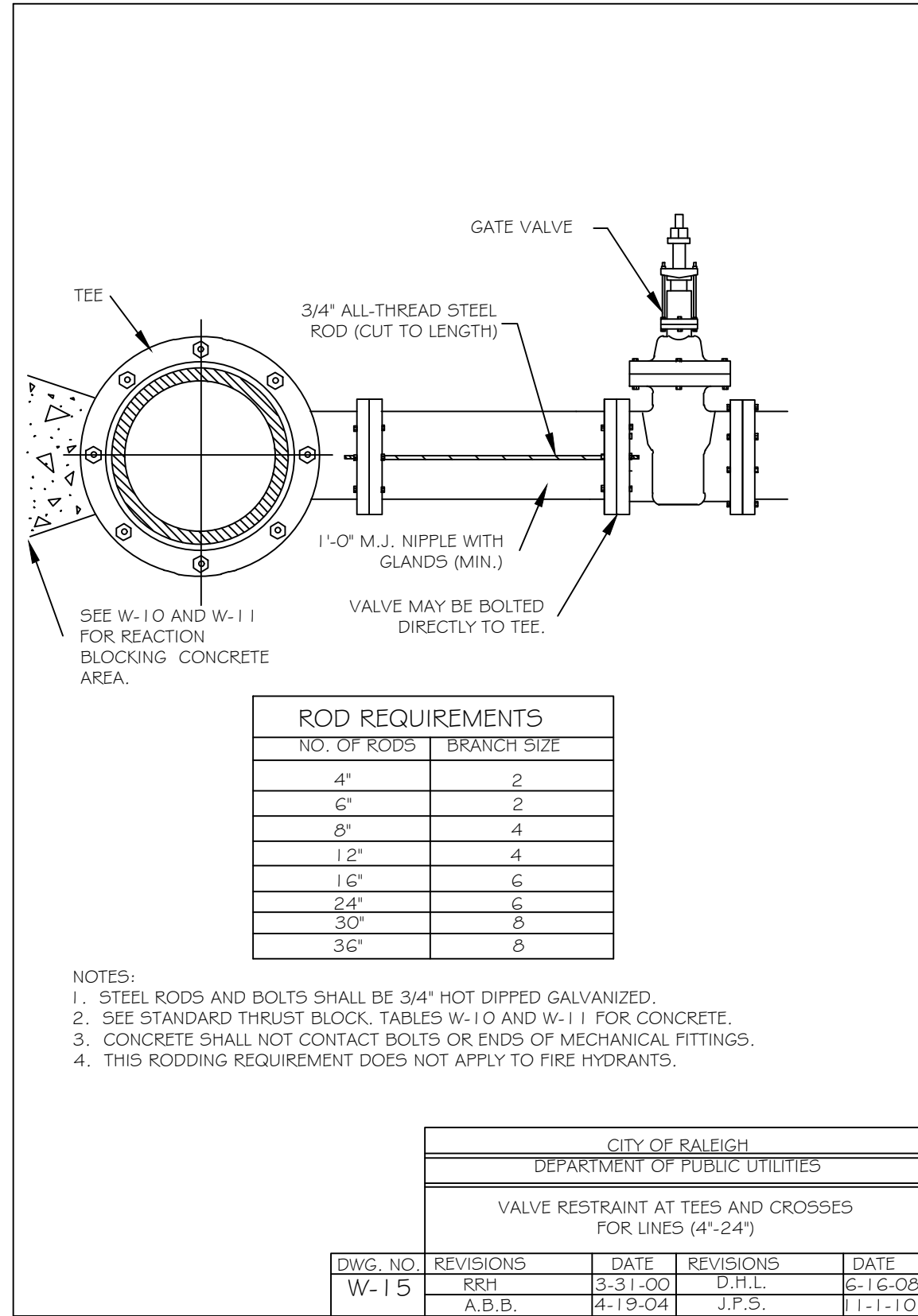
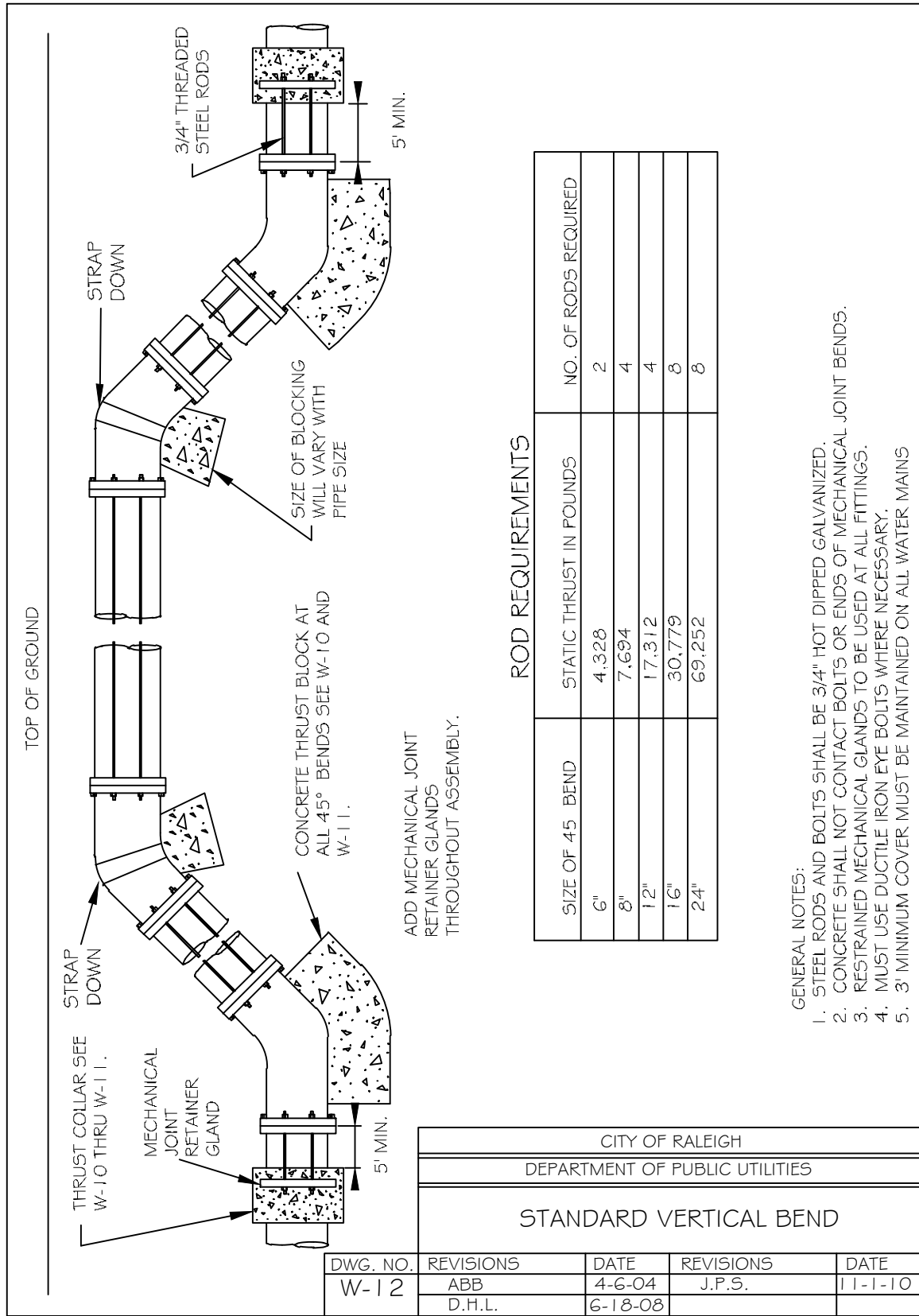
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REVISIONS

| NO. | DATE | BY |
|-----|------------|-----|
| 7 | 09/07/2022 | DAS |
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| 4 | 04/06/2022 | DAS |
| 3 | 03/24/2022 | DAS |
| 2 | 02/25/2022 | DAS |
| 1 | 01/07/2022 | DAS |

PROJECT ENGINEER/ARCHITECT
 AMI.ALEXANDER@SUMMITDE.NET

PROJECT MANAGER
 DAS/DON.SERGE@SUMMITDE.NET

DRAWN BY
 J.ALMY/ASHLEY@SUMMITDE.NET

FIRST ISSUE DATE
 11-01-2021



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 Voice: (919) 732-3883 Fax: (919) 732-6676
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CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

WATER SERVICE DETAILS

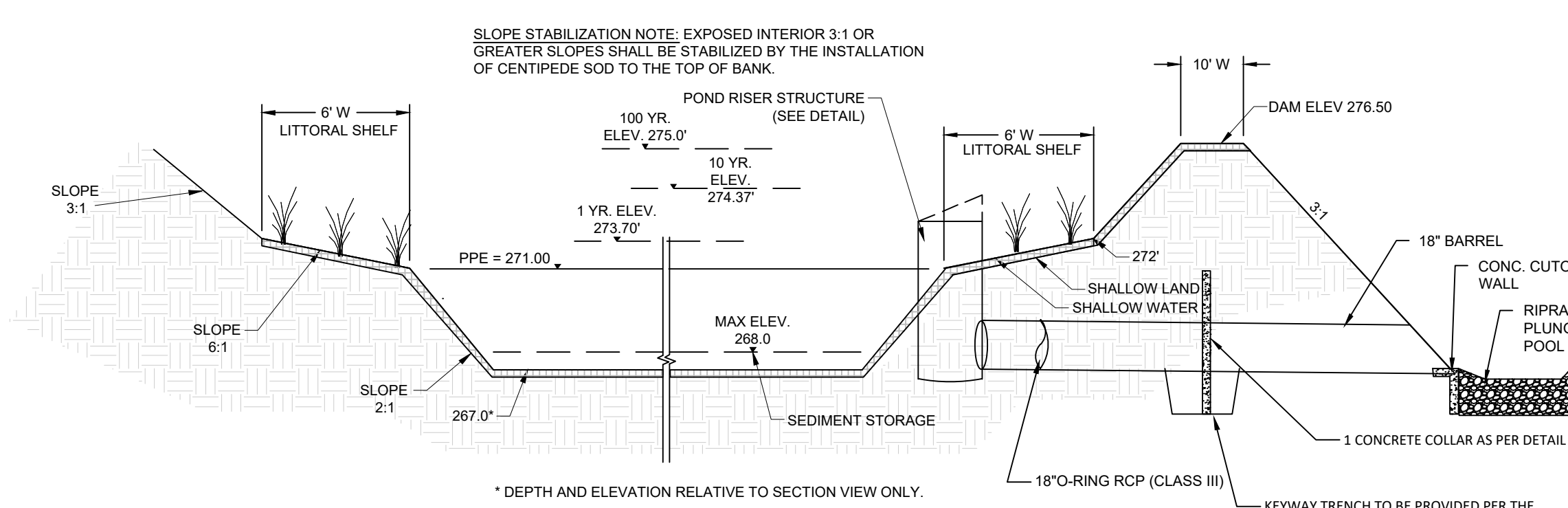
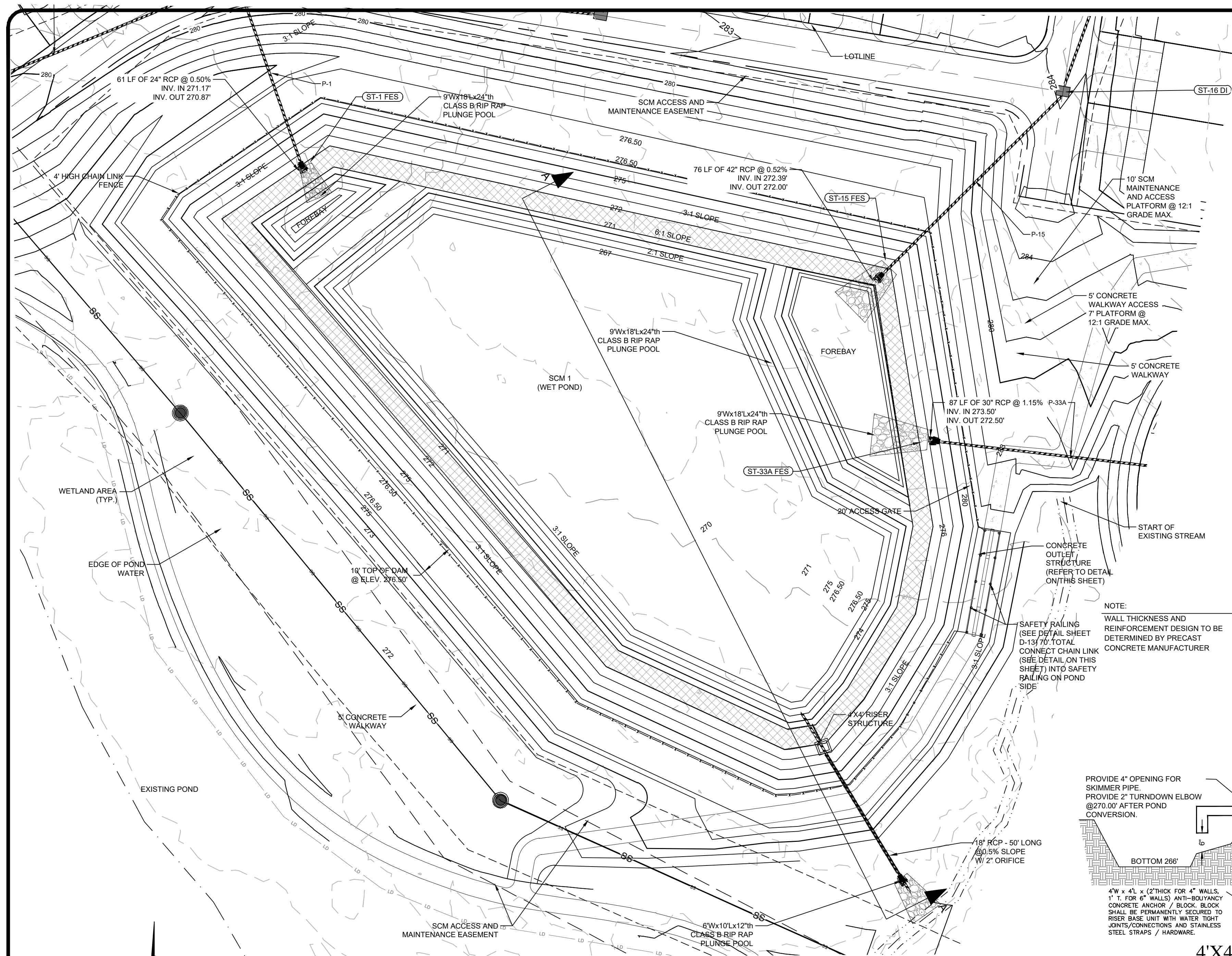
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DRAWING NAME:
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SHEET NO.
 D-12

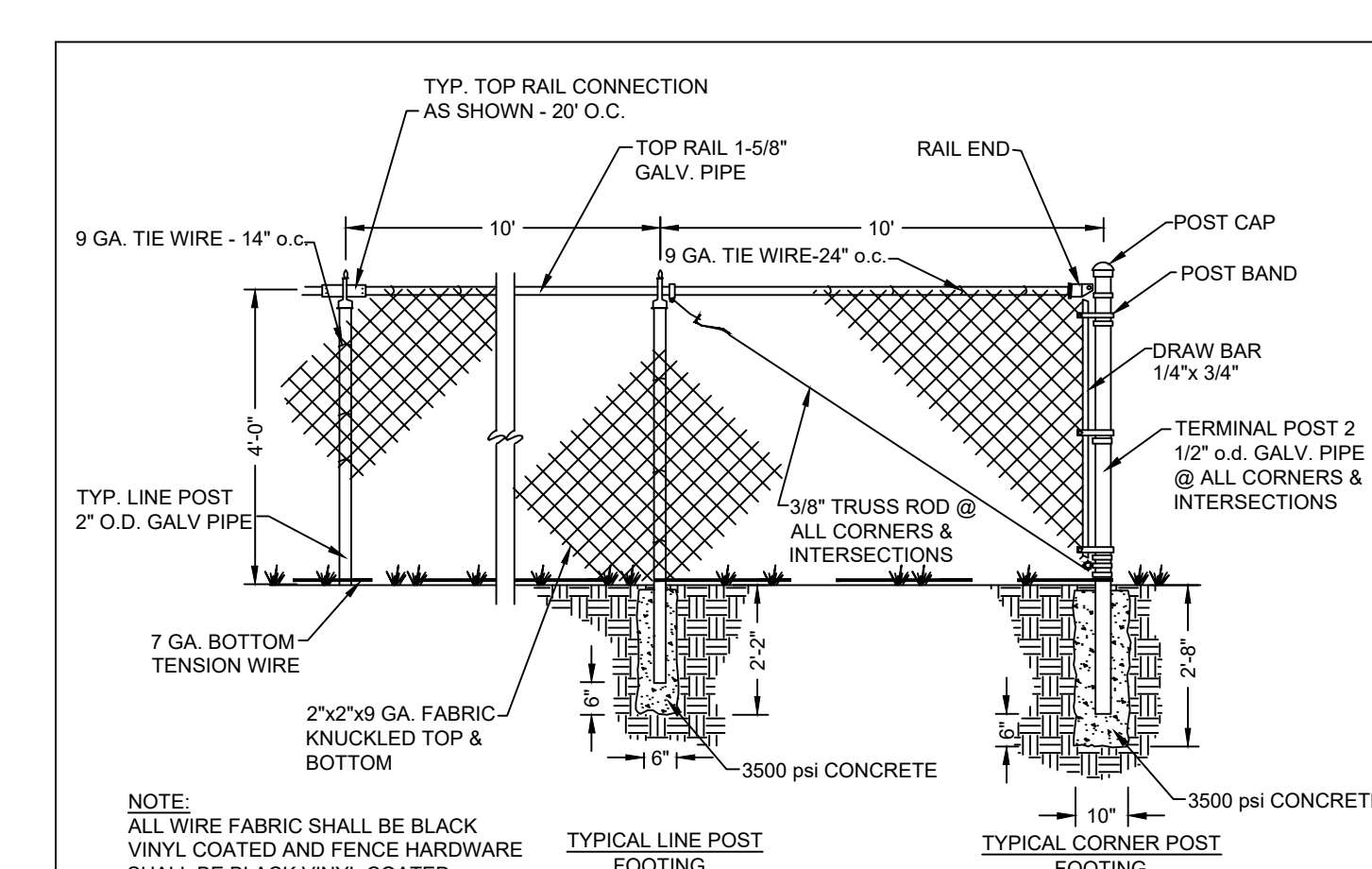
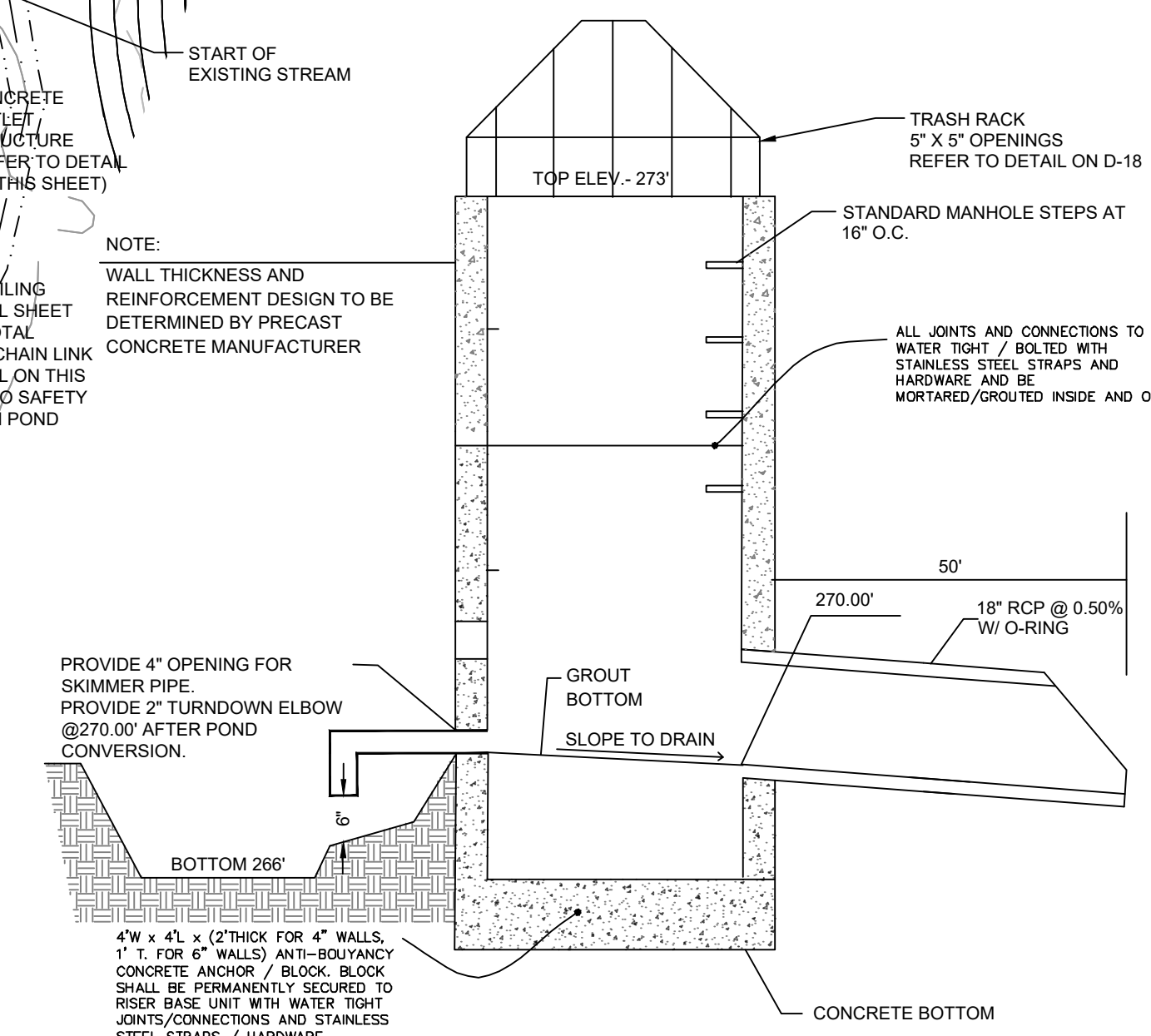


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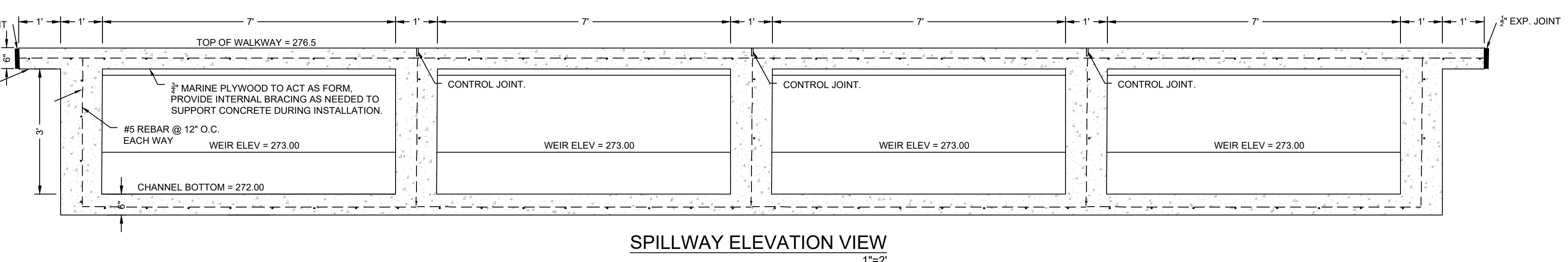
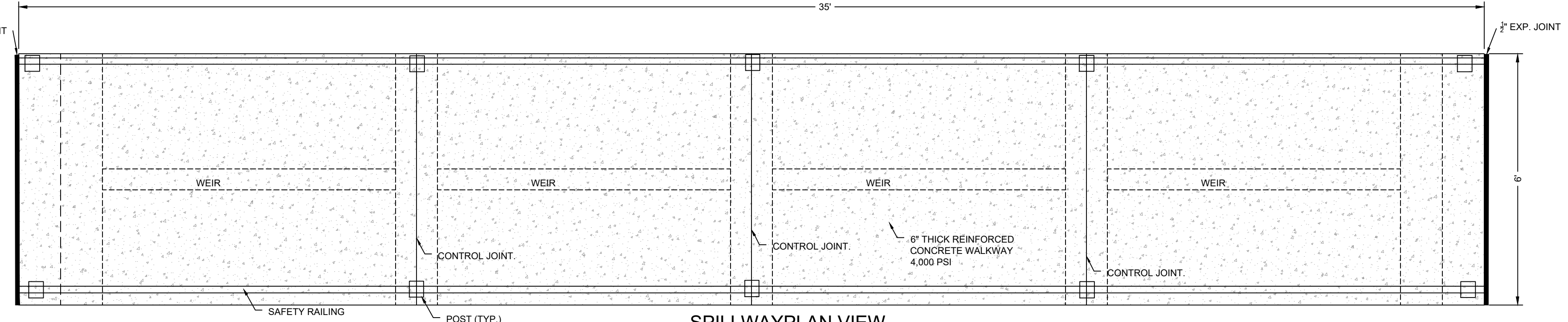
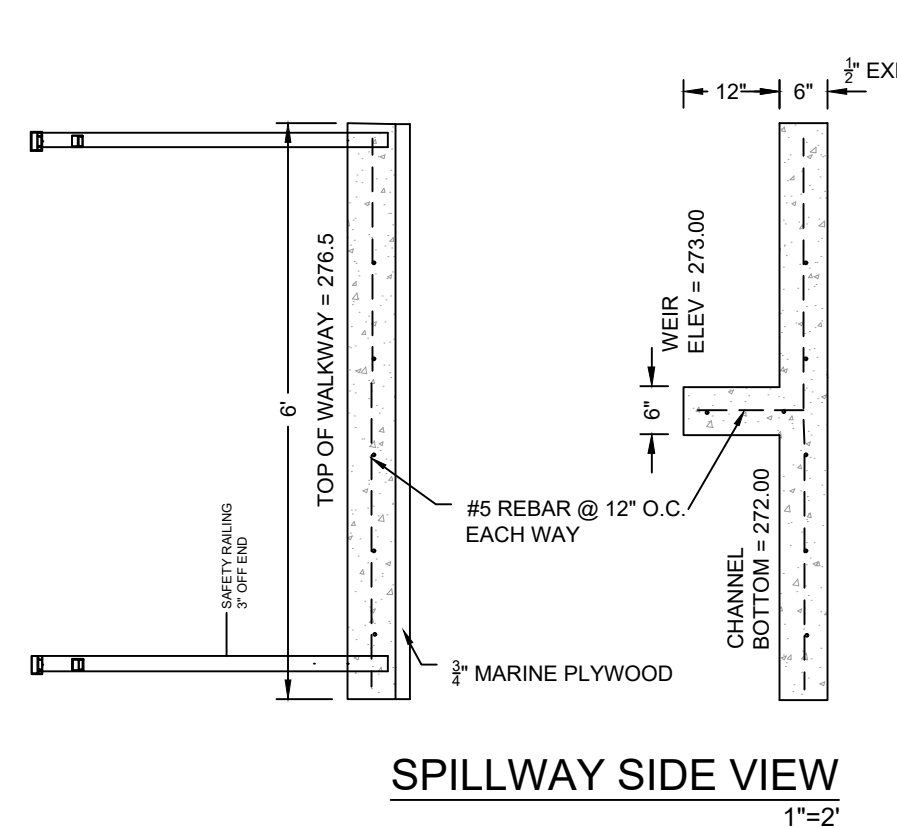
SEE D-15 FOR PLANTING NOTES, DAM EMBANKMENT CONSTRUCTION STANDARDS NOTES AND DECOMMISSIONING A SEDIMENT BASIN

NOTE: SEASONAL HIGH WATER TABLE AT 272.5' ON 5/2022. FOR WETPOND DESIGN, NO SEPARATION BETWEEN SHWT IS NEEDED.



WET POND PLANTING CHART

| SHALLOW LAND PLANTS | | | |
|--------------------------------|---------------------|------|--------------|
| Shallow Land Planting Area, SF | | | 3,600 |
| Total Plants Required | | | 900 |
| SCIENTIFIC NAME | COMMON NAME | QTY. | PCT. OF QTY. |
| ASCLEPIAS INCARNATA | SWAMP MILK WEED | 180 | 20% |
| LOBELIA CARDINALIS | CARDINAL FLOWER | 180 | 20% |
| EUPATORIADALPHUS FISTULOSUS | JOE PYE WEED | 180 | 20% |
| HIBISCUS COCCINEUS | SCARLET ROSE MALLOW | 180 | 20% |
| KOSTELETZKYA VIRGINICA | SEASHORE MALLOW | 180 | 20% |
| SUB TOTAL: | | | 900 100% |



WET POND STRUCTURE DETAILS

| INLET STRUCTURE | DESIGN | AS-BUILT |
|--|--------------------|----------|
| OUTLET PIPE SIZE / MATERIAL | 48" PRECAST BOX | |
| OUTLET PIPE INVERT IN | 18" DIAMETER RCP | |
| OUTLET PIPE INVERT OUT | 270.00' | |
| TOP OF DAM ELEVATION / WIDTH | 269.75' | |
| DEWATERING ORIFICE SIZE / ELEV | 275.00' / 10' WIDE | |
| DESIGN STORM ELEV (1-YR) | 2' @ ELEV. 270.00' | |
| DESIGN FLOW RATE (1-YR) OUT FROM BASIN (CFS) | 273.70' | |
| | 42.64 CFS | |

LEGEND:
LITTORAL SHELF AREA: 3,900 SF

REVISIONS

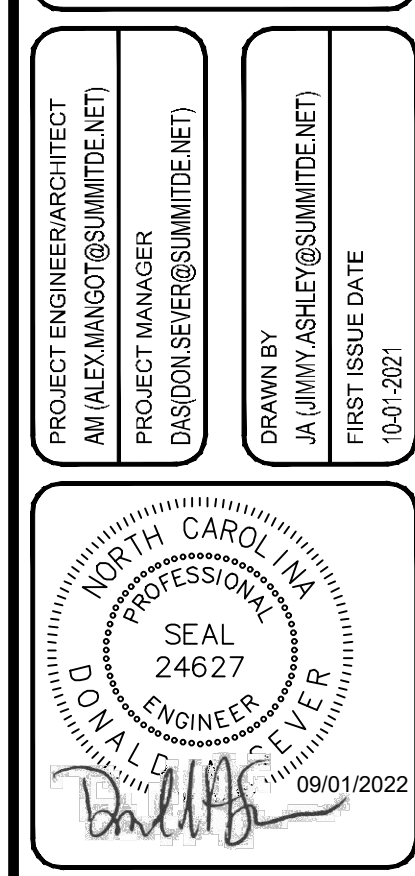
| NO. | DATE | BY |
|-----|--|-----|
| 7 | 09/07/2022 | DAS |
| 6 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 | DAS |
| 5 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 06/27/2022 | DAS |
| 4 | REVISOR PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 | DAS |
| 3 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 | DAS |
| 2 | REVISOR PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 | DAS |
| 1 | REVISOR PER TOWN OF ZEBULON REVIEW COMMENTS 11/17/2021 | DAS |

PROJECT ENGINEER/ARCHITECT
AM/ALEXMANGOT@SUMMITDE.NET

PROJECT MANAGER
DAS/DONSEVE@SUMMITDE.NET

DRAWN BY
JALAMMYASHLEY@SUMMITDE.NET

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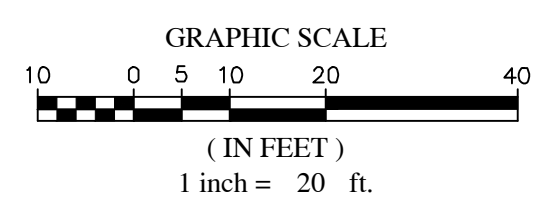
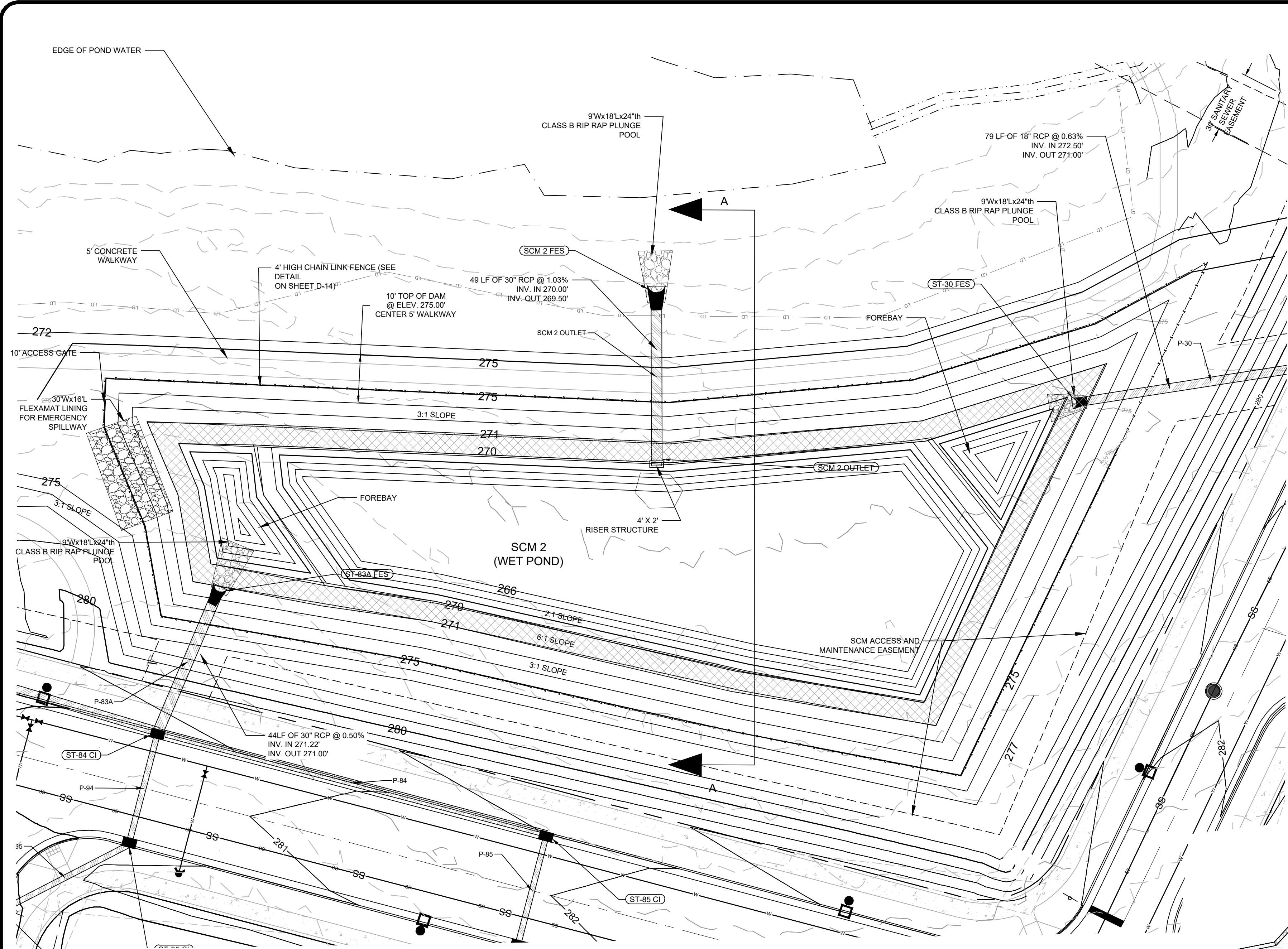
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC

SCM 1 PLAN & DETAILS

PROJECT NO.
19-0103

DRAWING NAME:
19-0103_d_scm.dwg

SHEET NO.
D-14

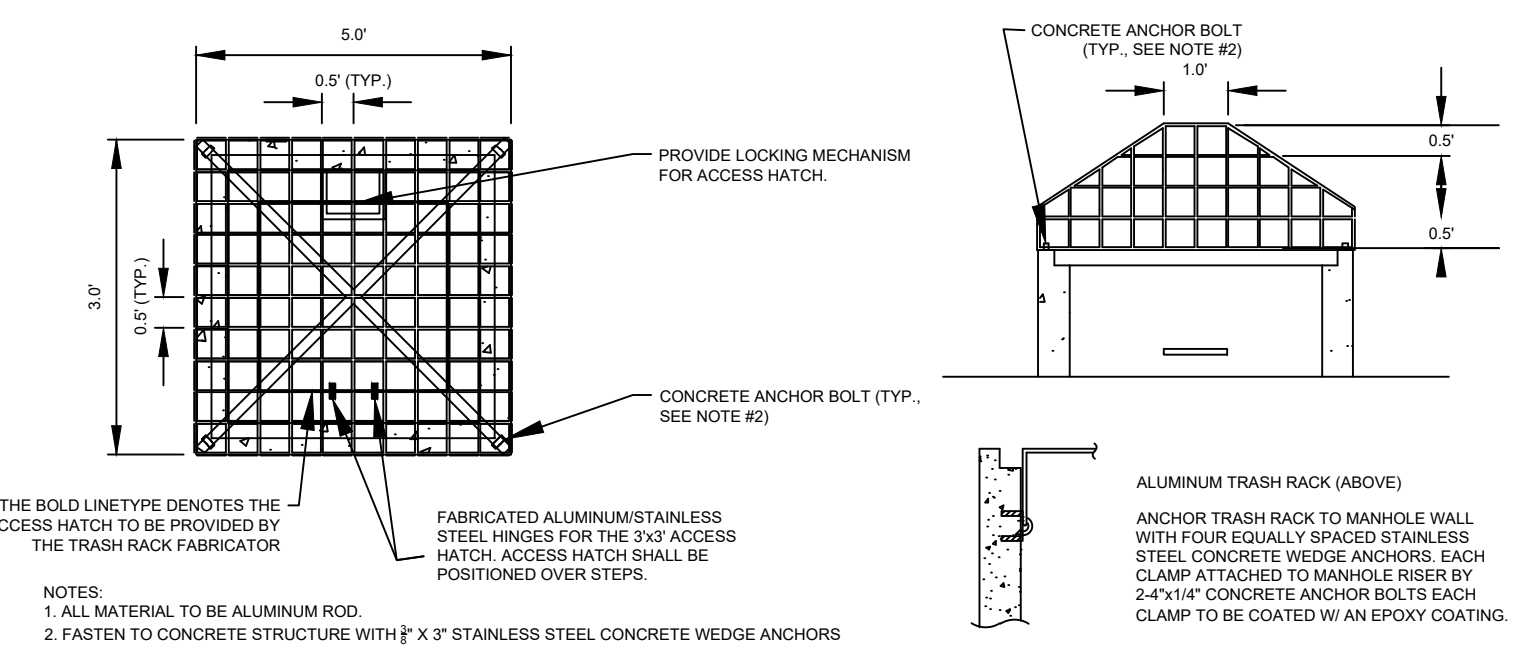


WET POND BASIN DETAIL - SCM 2
SCALE: 1" = 20'

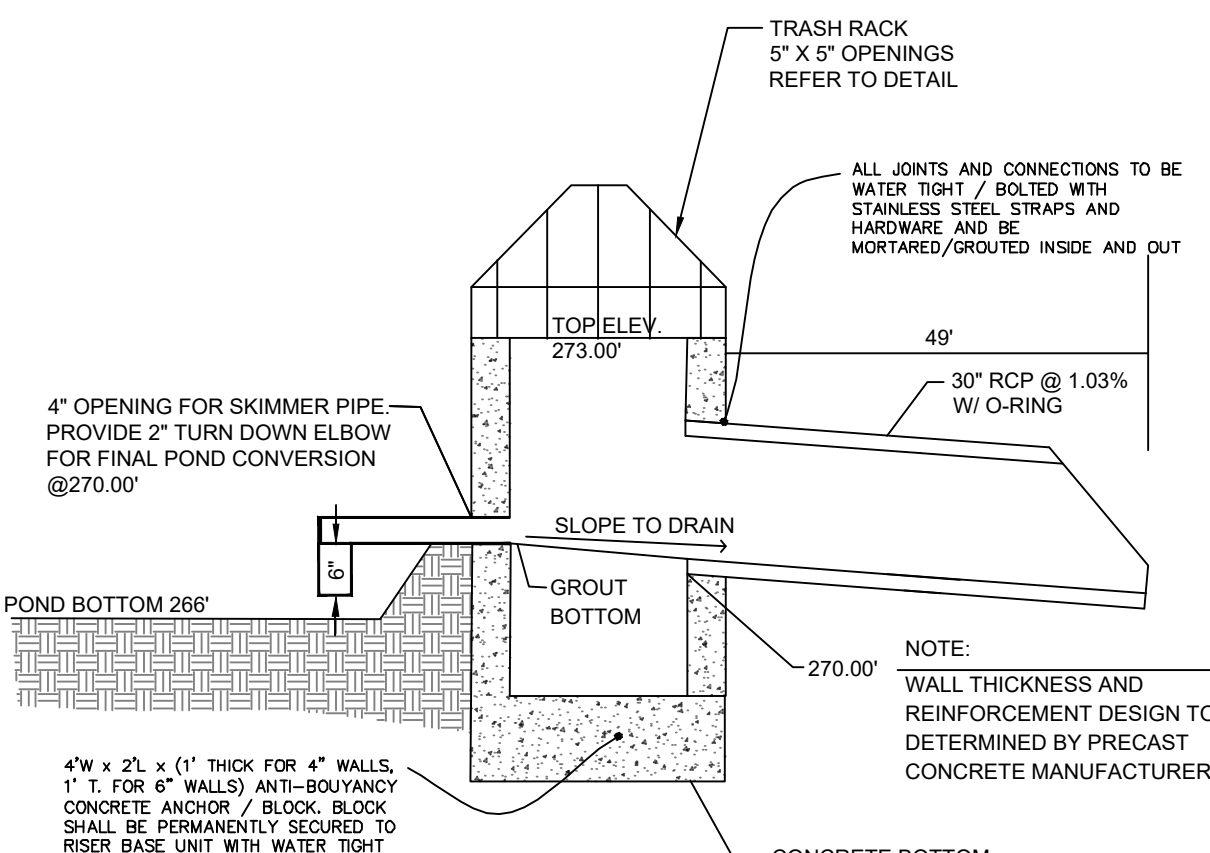
| WET POND PLANTING CHART | | | |
|--------------------------------|---------------------|------|--------------|
| SHALLOW LAND PLANTS | | | |
| Shallow Land Planting Area, SF | | | 3,800 |
| Total Plants Required | | | 950 |
| SCIENTIFIC NAME | COMMON NAME | QTY. | PCT. OF QTY. |
| ASCLEPIAS INCARNATA | SWAMP MILK WEED | 190 | 20% |
| LOBELIA CARDINALIS | CARDINAL FLOWER | 190 | 20% |
| EUPATORIADELPHUS FISTULOSUS | JOE PYE WEED | 190 | 20% |
| HIBISCUS COCCINEUS | SCARLET ROSE MALLOW | 190 | 20% |
| KOSTELETZKYA VIRGINICA | SEASHORE MALLOW | 190 | 20% |
| SUB TOTAL: | | 950 | 100% |

WET POND STRUCTURE DETAILS

| INLET STRUCTURE | DESIGN | AS-BUILT |
|--|---------------------|------------------|
| OUTLET PIPE SIZE / MATERIAL | 48"x24" PRECAST BOX | 30" DIAMETER RCP |
| OUTLET PIPE INVERT IN | 270.00' | |
| OUTLET PIPE INVERT OUT | 269.50' | |
| TOP OF DAM ELEVATION / WIDTH | 275.00' / 10' WIDE | |
| DEWATERING ORIFICE SIZE/ELEV | 2" @ ELEV. 270.00' | |
| DESIGN STORM ELEV (1-YR) | 272.74' | |
| DESIGN FLOW RATE (1-YR) OUT FROM BASIN (CFS) | 1.00 CFS | |

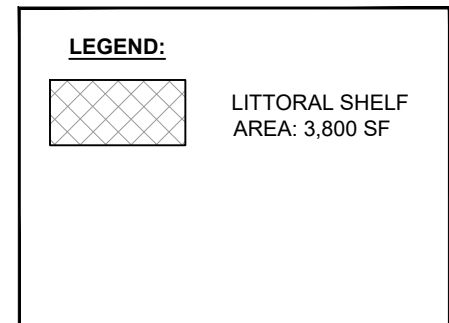


ALUMINUM TRASH RACK DETAIL



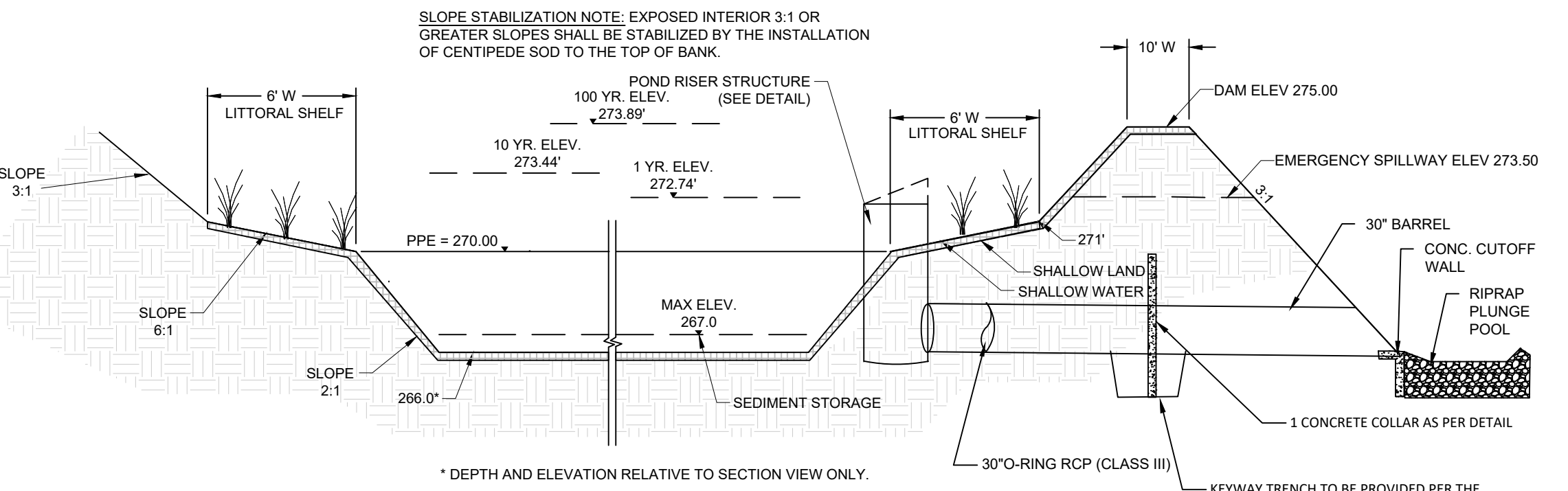
4'X2' PRE-CAST CONCRETE OUTLET STRUCTURE
NOT TO SCALE

- NOTES:
- INSTALL PLANTS PER SUBCHAPTER 9.4 OF THE NCDENR STORMWATER BMP MANUAL.
 - SHALLOW WATER AND SHALLOW LAND PLANTS SHALL BE INSTALLED 2 FOOT ON CENTER AT A RATE OF 50 PLANTS PER 200 SQUARE FEET.
 - SOD INTERIOR BANK OF BMP ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS. USE TALL FESCUE ON TOP OF DAM AND ON DAM EMBANKMENT.
 - MAINTAIN HEALTH OF WETLAND PLANTINGS PER SUBCHAPTER 9.5 OF THE NCDENR STORMWATER BMP MANUAL.
 - PROVIDE 1 YEAR WARRANTY FOR PLANTS.
 - ONE YEAR (1YR) WARRANTY SHALL BE FULLY TRANSFERABLE TO ANY SUBSEQUENT OWNER UPON CONVEYANCE OF THE PROPERTY PRIOR TO ITS EXPIRATION.

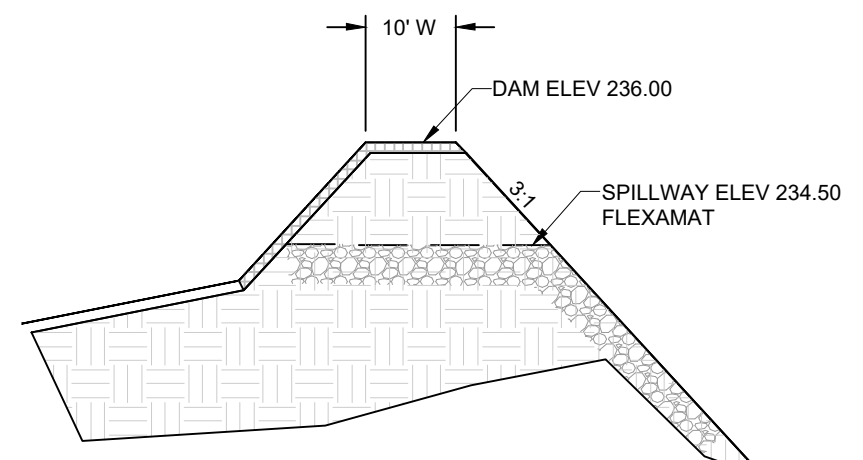


PLANTING NOTES:

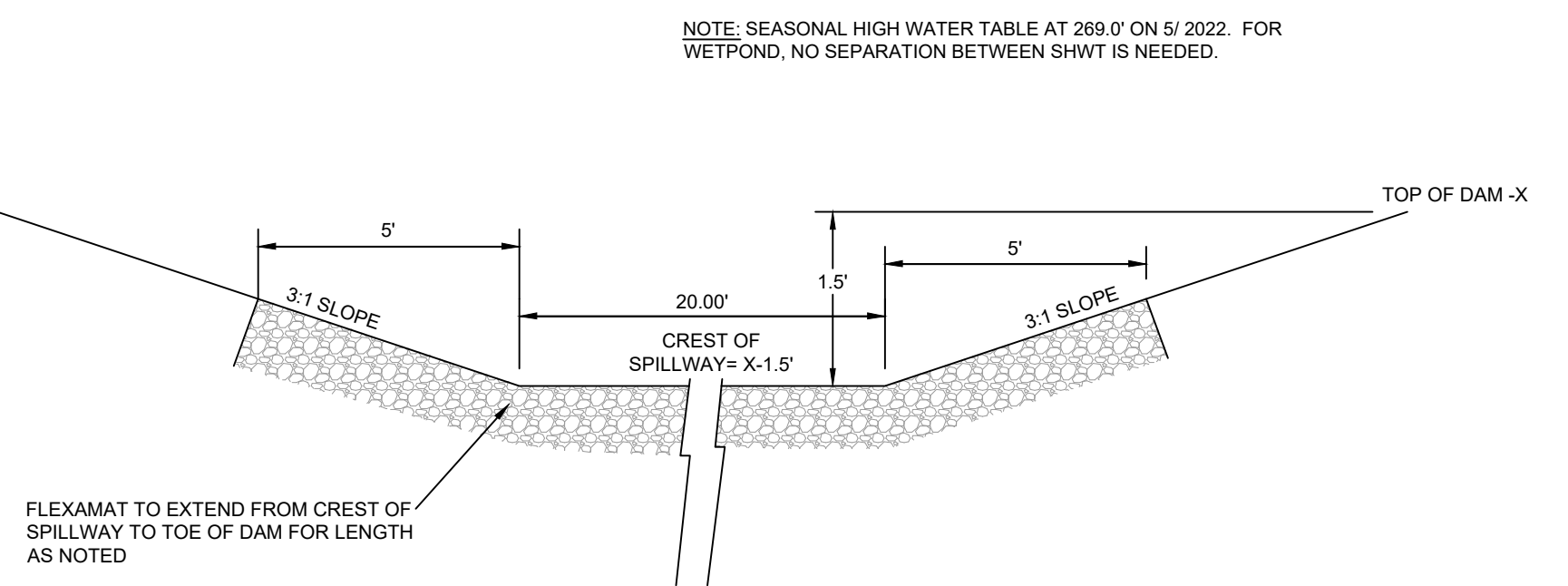
- CONTACT ENGINEER PRIOR TO CONSTRUCTION FOR PRE-CONSTRUCTION CONFERENCE.
- SOILS USED WITHIN THE WETLAND MUST ADHERE TO THE FOLLOWING REQUIREMENTS.
 - THE SOIL MIX MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES IN DIAMETER.
 - THE PH SHOULD BE BETWEEN 4.5 AND 7.0. IF THE PH FALLS OUTSIDE OF THIS RANGE, CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS FOR APPROPRIATE APPLICATION RATES.
 - ALL TOP SOILS TO BE USED WITHIN THE WETLAND SHALL BE ANALYZED AT A SOIL TESTING LAB, AND CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS BEFORE PLANTING.
- ALL MANAGED PERVIOUS AREAS SHALL BE SEEDED OR PLANTED PER THE FOLLOWING CRITERIA:
 - TILL OR DISC SOIL TO APPROPRIATE DEPTH PER NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL PERMANENT STABILIZATION REQUIREMENTS.
 - AMEND SOIL TO PROVIDE SUFFICIENT ORGANIC MATTER FOR LONG-TERM VEGETATION GROWTH AND INFILTRATION.
 - IF SOIL IS NOT AMENDED, PROVIDE JUSTIFICATION (I.E. SOIL TEST RESULTS) FOR WHY THE AMENDMENT WAS NOT NECESSARY.
 - ADDITIONAL AMENDMENTS AS NECESSARY TO ENSURE THAT THE PERVIOUS SURFACE IS INFILTRATING STORMWATER AT PRE-DEVELOPMENT RATES.
 - SOIL AMENDMENTS SHOULD BE INCORPORATED AT THE END OF THE SITE DEVELOPMENT PROCESS AND THE WETLAND SHOULD BE PLANTED AND MULCHED IMMEDIATELY AFTER AMENDING THE SOIL TO STABILIZE THE SITE AS SOON AS POSSIBLE.
 - WETLAND PLANTS SHALL BE OBTAINED FROM A SIMILAR PLACE OF ORIGIN OR LOCAL SOURCE TO ENSURE SURVIVABILITY. WETLAND SEED MIXES ARE NOT ALLOWED.
- INSTALL STORMWATER WETLAND PLANTS PER SUBCHAPTERS A-3 AND C-3 OF THE NCDENR STORMWATER DESIGN MANUAL.
- SOD INTERIOR BANK OF SCM ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS.
- MAINTAIN HEALTH OF STORMWATER WETLAND PLANTINGS PER SUBCHAPTER C-3 OF THE NCDENR STORMWATER DESIGN MANUAL. CONTRACTOR SHALL REPLACE ANY PLANT LOSSES WITH THE APPROPRIATE SHALLOW WATER OR SHALLOW LAND PLANTINGS AS SHOWN ON THIS SHEET FOR A MINIMUM OF 1 YEARS FROM INSTALLATION. ALL PLANTS THAT DO NOT SURVIVE AT THE END OF THE FIRST YEAR WARRANTY PERIOD MUST BE REPLACED. IF A MINIMUM COVERAGE OF 70 PERCENT IS NOT ACHIEVED IN THE PLANTED WETLAND ZONES AFTER THE SECOND GROWING SEASON, SUPPLEMENTAL PLANTING SHOULD BE COMPLETED.
- ENSURE NEWLY INSTALLED PLANTINGS ARE PROVIDED WITH ADEQUATE WATER, ESPECIALLY DURING DRY PERIODS.
- NEW PLANTINGS SHOULD BE INSPECTED FREQUENTLY AND MAINTENANCE PERFORMED OR PLANTING REPLACED AS NEEDED.
- TREES OR SHRUBS SHALL NOT BE PLANTED ON ANY PORTIONS OF WATER IMPOUNDING EMBANKMENTS, WITHIN THEIR SPILLWAYS/CHANNELS, AND THE REQUIRED ACCESS AND MAINTENANCE EASEMENT.



WET POND DETAIL - SECTION A-A
NTS



EMERGENCY SPILLWAY SECTION
NTS



EMERGENCY SPILLWAY
NOT TO SCALE

DECOMMISSIONING A SEDIMENT BASIN:

- CALL FOR ON-SITE DETERMINATION/MEETING WHEN REQUESTING TO DECOMMISSION PHASE OUT A TEMPORARY SEDIMENT BASIN.
- DETERMINATION CAN ONLY BE MADE BY THE LOCAL EROSION CONTROL SPECIALIST AND/OR HIS OR HER SUPERVISOR.
- ONCE IT HAS BEEN AGREED THAT THE TEMPORARY SEDIMENT BASIN CAN BE REMOVED, IT MUST BE MARKED AND UNTILED BY THE EROSION CONTROL INSPECTOR.
- IF THE SEDIMENT BASIN HAS WATER IN IT, THE WATER MUST BE PUMPED OUT FROM THE SURFACE INTO A FILTER BAG ON A LEVEL AREA FREE OF DEBRIS (OR ANOTHER APPROVED METHOD WITH NON-EROSIVE PROPERTIES).
- REMOVE SKIMMER AND PLUG ANY HOLES IN THE RISER (IF APPLICABLE) AND REMOVE ALL Baffle MATERIALS.
- IF THERE IS A LOT OF SEDIMENT/SILT IN THE BOTTOM OF THE BASIN, MIX WITH DRY MATERIAL OR SET ASIDE TO DRY, BEFORE HAULING OFF.
- FILL/CONVERT BASIN PER THE APPROVED GRADING PLAN.
- AFTER FINAL GRADING HAS BEEN COMPLETED, AREA MUST BE STABILIZED WITH LIME, SEED, FERTILIZER, STRAW AND TACK ACCORDING TO WAKE COUNTY'S SEEDING APPLICATION RATES AND SPECS.

DAM EMBANKMENT CONSTRUCTION STANDARDS:

- CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LAYERS WITHIN 3- FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2- FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
- ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
- FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
- ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
- SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
- FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
- TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E. TREATMENT WITH SLUSH GROUTING, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER.
- FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES.
- EARTHWORK COMPACTON WITHIN 3- FEET OF ANY STRUCTURES SHALL BE ACCOMPLISHED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIATURE SELF-PROPELLED ROLLERS.
- COMPACTON BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED.
- HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED.
- TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 2- TO 3- INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND SODED OR HYDROSEED.
- PROVIDE A 6" MIN. IMPERMEABLE CLAY LAYER AT THE BOTTOM OF POND.

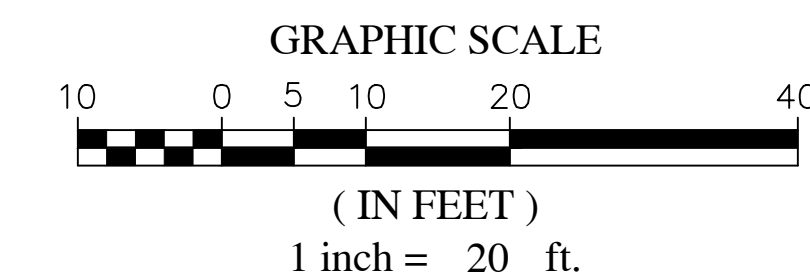
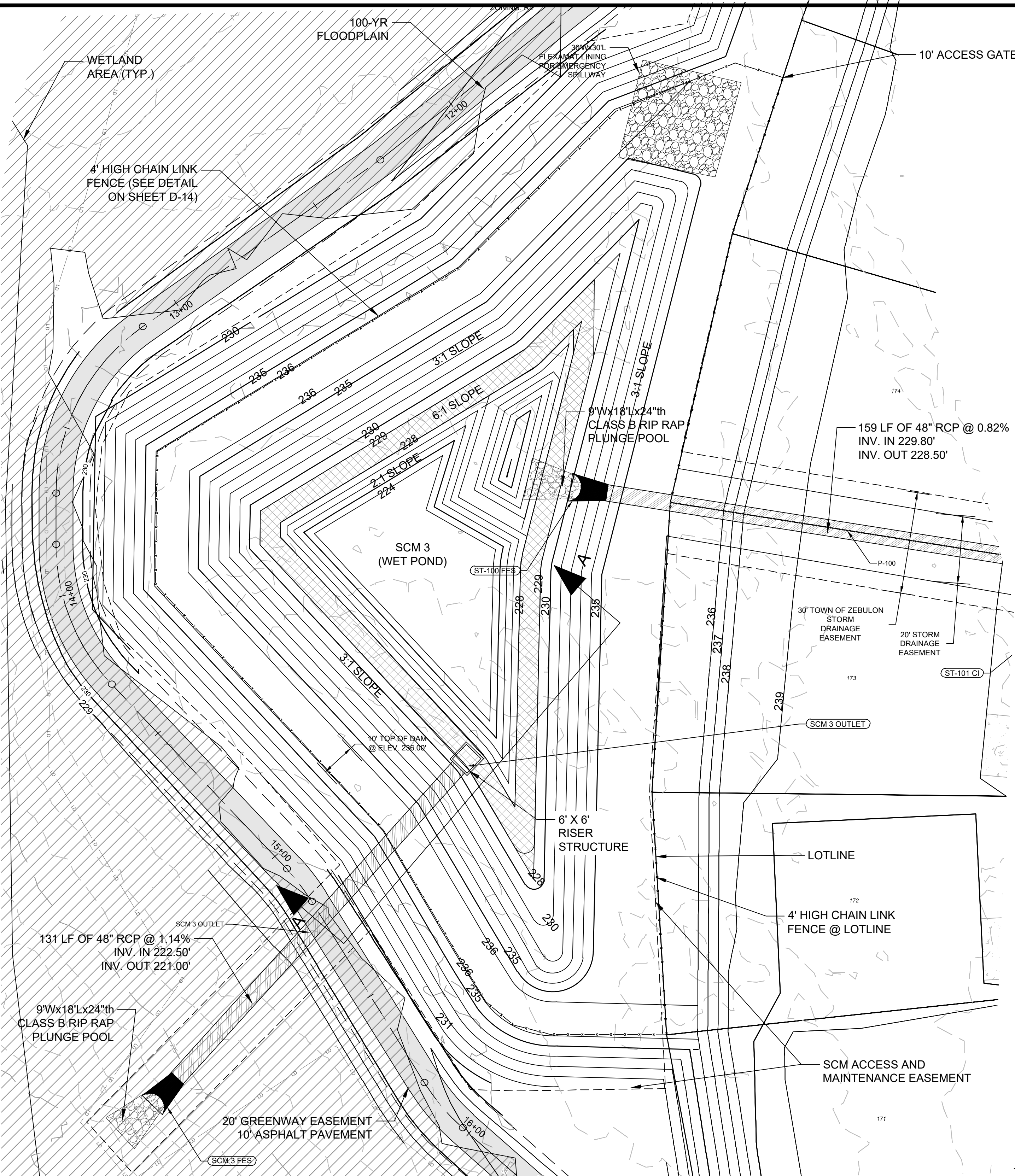
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|-----|------------|-----|--|
| 7 | 09/17/2022 | DAS | FINAL SET |
| 6 | 06/07/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 |
| 5 | 05/03/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 |
| 4 | 04/06/2022 | DAS | REVISED PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/26/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2022 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/23/2021 |

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PROJECT MANAGER
DAS@SUMMITDESIGN.COM
DESIGN SERVICES
SUMMIT DESIGN SERVICES
330 EXECUTIVE COURT
ZEBULON, NC 27378
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WWW.SUMMITDESIGN.COM

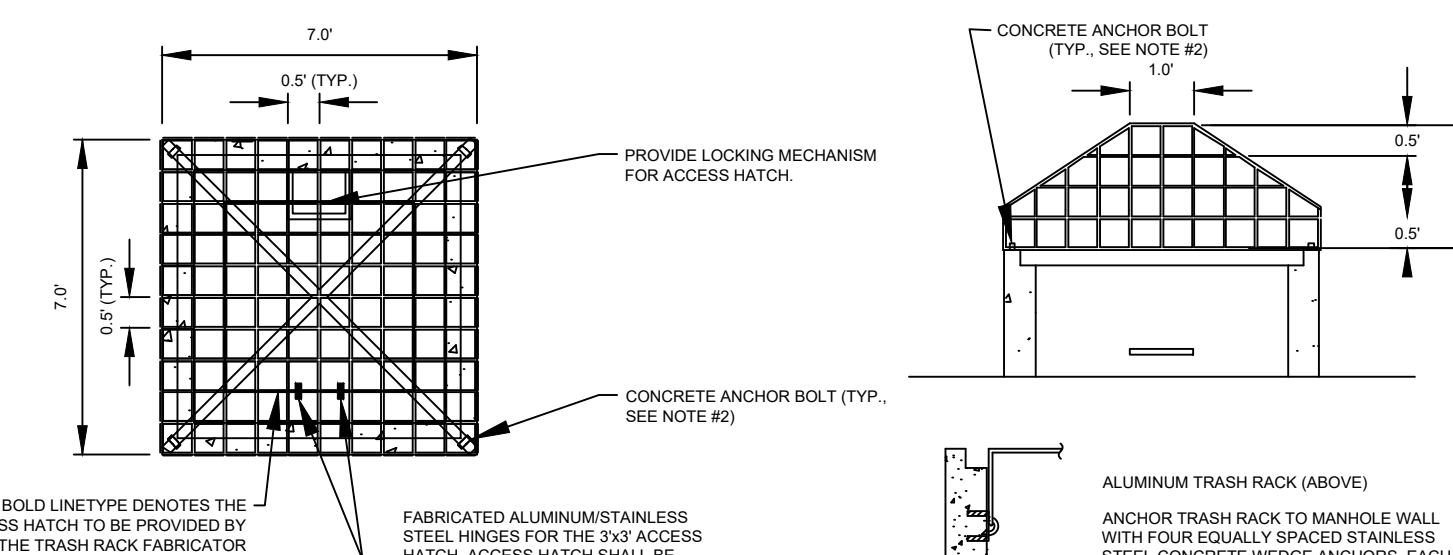
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SEAL 24627
09/01/2022

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330 Executive Court
Zebulon, NC 27378
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www.summitdesign.com

CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
SCM 2 PLAN & DETAILS
PROJECT NO.
19-0103
DRAWING NAME:
19-0103_d_scm.dwg
SHEET NO.
D-15



WET POND BASIN DETAIL - SCM 3
SCALE: 1" = 20'



ALUMINUM TRASH RACK DETAIL

WET POND STRUCTURE DETAILS

| | DESIGN | AS-BUILT |
|--|--------------------|----------|
| INLET STRUCTURE | 72" PRECAST BOX | |
| OUTLET PIPE SIZE / MATERIAL | 48" DIAMETER RCP | |
| OUTLET PIPE INVERT IN | 222.50 | |
| OUTLET PIPE INVERT OUT | 221.00 | |
| TOP OF DAM ELEVATION / WIDTH | 236.00' / 10' WIDE | |
| DEWATERING ORIFICE SIZE/ELEV | 3" @ ELEV. 228.00' | |
| DESIGN STORM ELEV (1-YR) | 232.32' | |
| DESIGN FLOW RATE (1-YR) OUT FROM BASIN (CFS) | 59.83 CFS | |

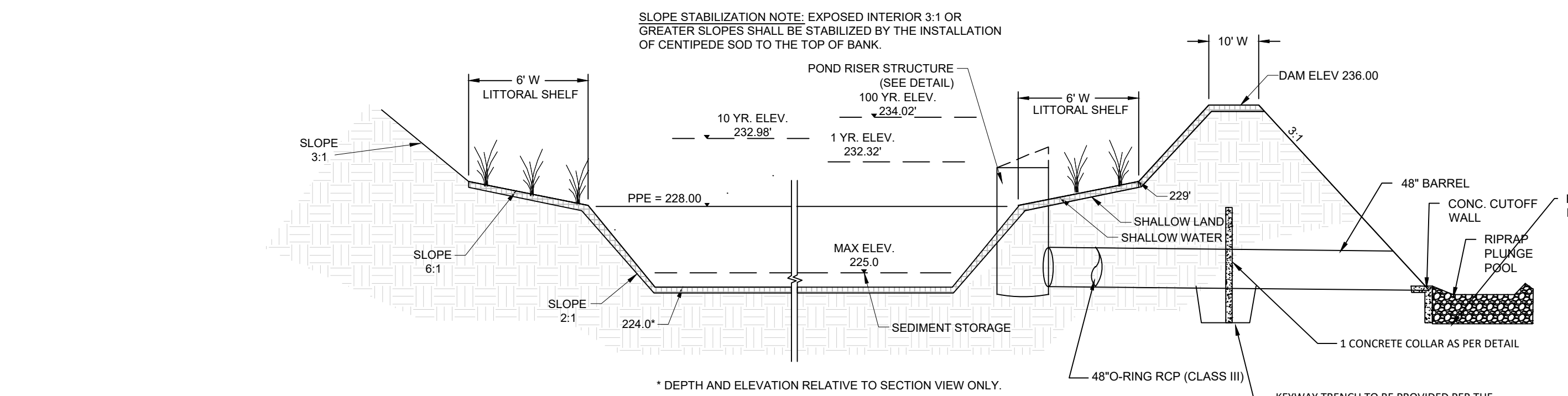
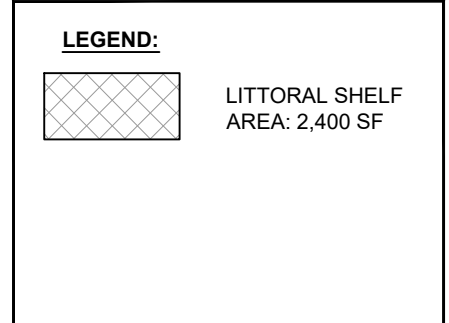
- NOTES:**
- INSTALL PLANTS PER SUBCHAPTER 9.4 OF THE NCCDR STORMWATER BMP MANUAL.
 - SHALLOW WATER AND SHALLOW LAND PLANTS SHALL BE INSTALLED 2 FOOT ON CENTER AT A RATE OF 60 PLANTS PER 200 SQUARE FEET.
 - SOD INTERIOR BANK OF BMP ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS. USE TALL FESCUE ON TOP OF DAM AND ON DAM EMBANKMENT.
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PLANTING NOTES:

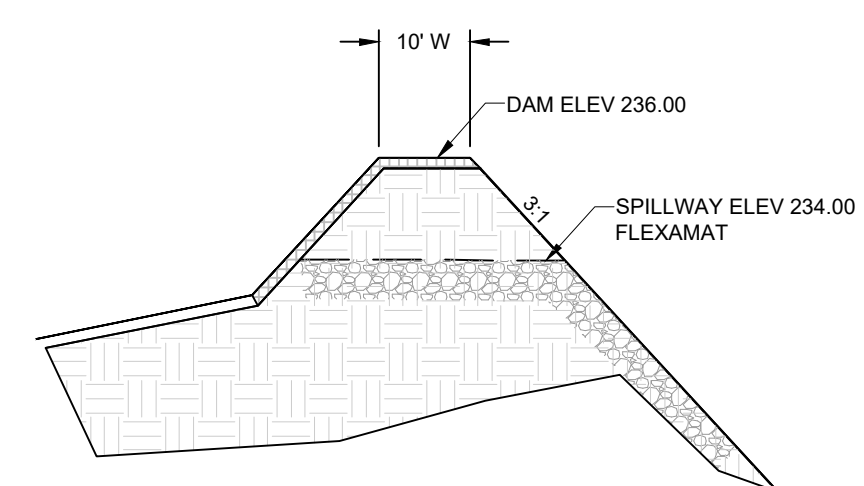
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- SOILS USED WITHIN THE WETLAND MUST ADHERE TO THE FOLLOWING REQUIREMENTS:
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 2. THE PH SHOULD BE BETWEEN 4.5 AND 7.0. IF THE PH FALLS OUTSIDE OF THIS RANGE, CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS FOR APPROPRIATE APPLICATION RATES.
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WET POND PLANTING CHART

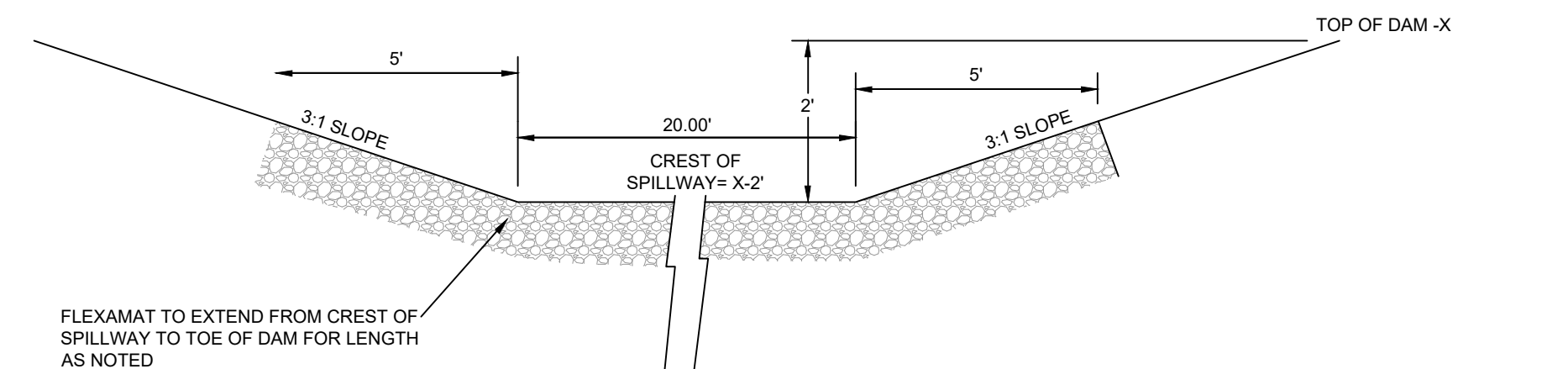
| SHALLOW LAND PLANTS | | | |
|--------------------------------|---------------------|------------|--------------|
| Shallow Land Planting Area, SF | | 2,400 | |
| Total Plants Required | | 600 | |
| SCIENTIFIC NAME | COMMON NAME | QTY. | PCT. OF QTY. |
| ASCLEPIAS INCARNATA | SWAMP MILK WEED | 120 | 20% |
| LOBELIA CARDINALIS | CARDINAL FLOWER | 120 | 20% |
| EUPATORIADIELOPHUS FISTULOSUS | JOE PYE WEED | 120 | 20% |
| HIBISCUS COCCINEUS | SCARLET ROSE MALLOW | 120 | 20% |
| KOSTELETZKYA VIRGINICA | SEASHORE MALLOW | 120 | 20% |
| SUB TOTAL: | | 600 | 100% |



WET POND DETAIL - SECTION A-A



EMERGENCY SPILLWAY SECTION



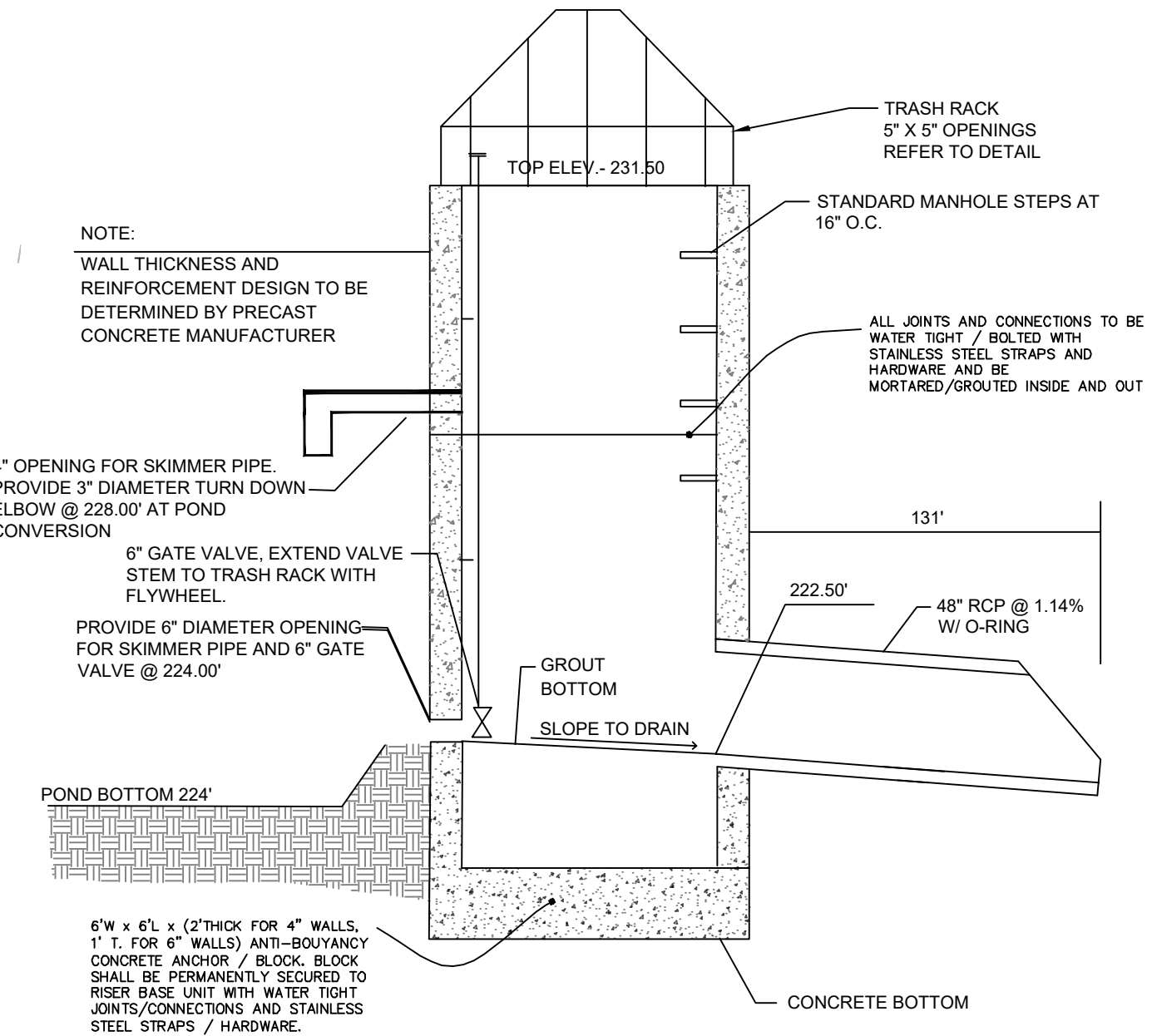
EMERGENCY SPILLWAY

DECOMMISSIONING A SEDIMENT BASIN:

- CALL FOR ON-SITE DETERMINATION MEETING WHEN REQUESTING TO DECOMMISSION PHASE OUT A TEMPORARY SEDIMENT BASIN.
- DETERMINATION CAN ONLY BE MADE BY THE LOCAL EROSION CONTROL SPECIALIST AND/OR HIS OR HER SUPERVISOR.
- ONCE IT HAS BEEN AGREED THAT THE TEMPORARY SEDIMENT BASIN CAN BE REMOVED, IT MUST BE MARKED AND UNTILED BY THE EROSION CONTROL INSPECTOR.
- IF THE SEDIMENT BASIN HAS WATER IN IT, THE WATER MUST BE PUMPED OUT FROM THE SURFACE INTO A FILTER BAG ON A LEVEL AREA FREE OF DEBRIS (OR ANOTHER APPROVED METHOD WITH NONEROSIVE PROPERTIES).
- REMOVE SKIMMER AND PLUG ANY HOLES IN THE RISER (IF APPLICABLE) AND REMOVE ALL Baffle MATERIALS.
- IF THERE IS A LOT OF SEDIMENT/SILT IN THE BOTTOM OF THE BASIN, MIX WITH DRY MATERIAL OR SET ASIDE TO DRY, BEFORE HAULING OFF.
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DAM EMBANKMENT CONSTRUCTION STANDARDS:

- CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3- FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2- FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
- ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
- FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
- ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARRIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
- SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
- FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
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- HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED.
- TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 2- TO 3- INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND SODDED OR HYDROSEEDED.
- PROVIDE A 6" MIN. IMPERMEABLE CLAY LAYER AT THE BOTTOM OF POND.



6'X6' PRE-CAST CONCRETE OUTLET STRUCTURE

REVISIONS

| NO. | DATE | BY |
|-----|------------|-----|
| 7 | 09/07/2022 | DAS |
| 6 | 06/07/2022 | DAS |
| 5 | 05/03/2022 | DAS |
| 4 | 04/06/2022 | DAS |
| 3 | 03/24/2022 | DAS |
| 2 | 02/25/2022 | DAS |
| 1 | 01/27/2021 | DAS |

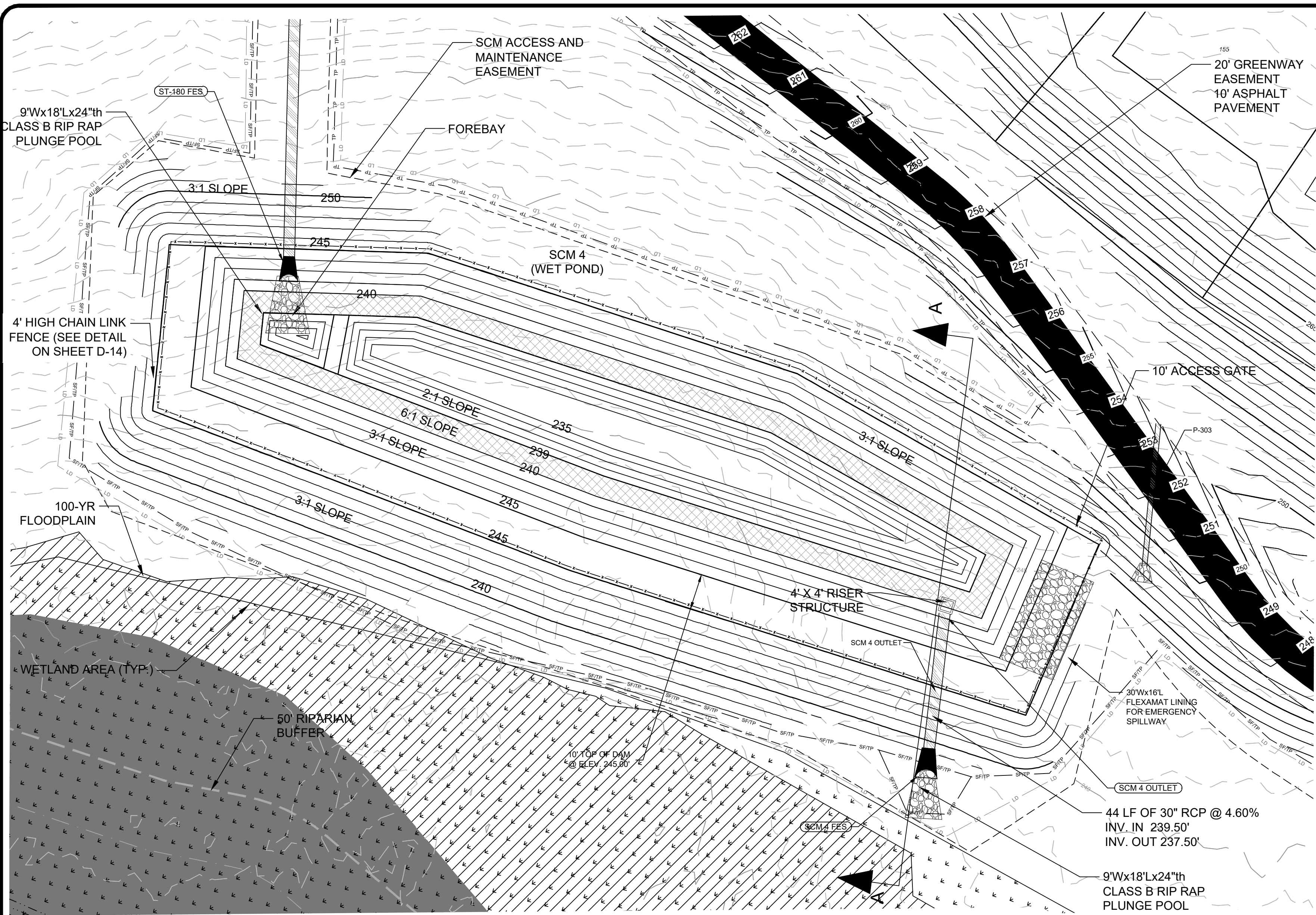
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 PROJECT ENGINEER ARCHITECT: JALIMMY ASHLEY (@SUMMITDE.NET)
 PROJECT MANAGER: DAS@SUMMITDE.NET
 DRAWING AUTHOR: JALIMMY ASHLEY (@SUMMITDE.NET)
 FIRST ISSUE DATE: 11/01/2021

PROFESSIONAL SEAL
 JALIMMY ASHLEY
 ENGINEER
 STATE OF NORTH CAROLINA
 09/01/2022

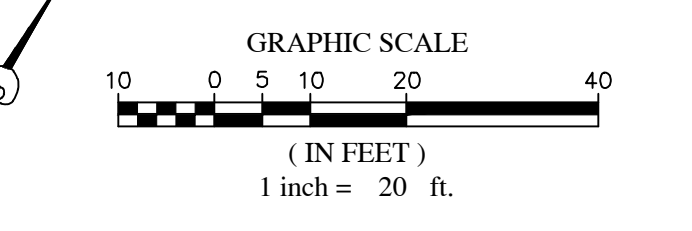
SUMMIT
 DESIGN AND ENGINEERING SERVICES
 State License #: P-0339
 320 Executive Court
 Hillsborough, NC 27278
 Voice: (919) 732-3883 Fax: (919) 732-6676
 www.summitde.us

CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC
 PROJECT NO. 19-0103
 DRAWING NAME: 19-0103_d_scm.dwg
 SHEET NO. D-16

SCM 3 PLAN & DETAILS



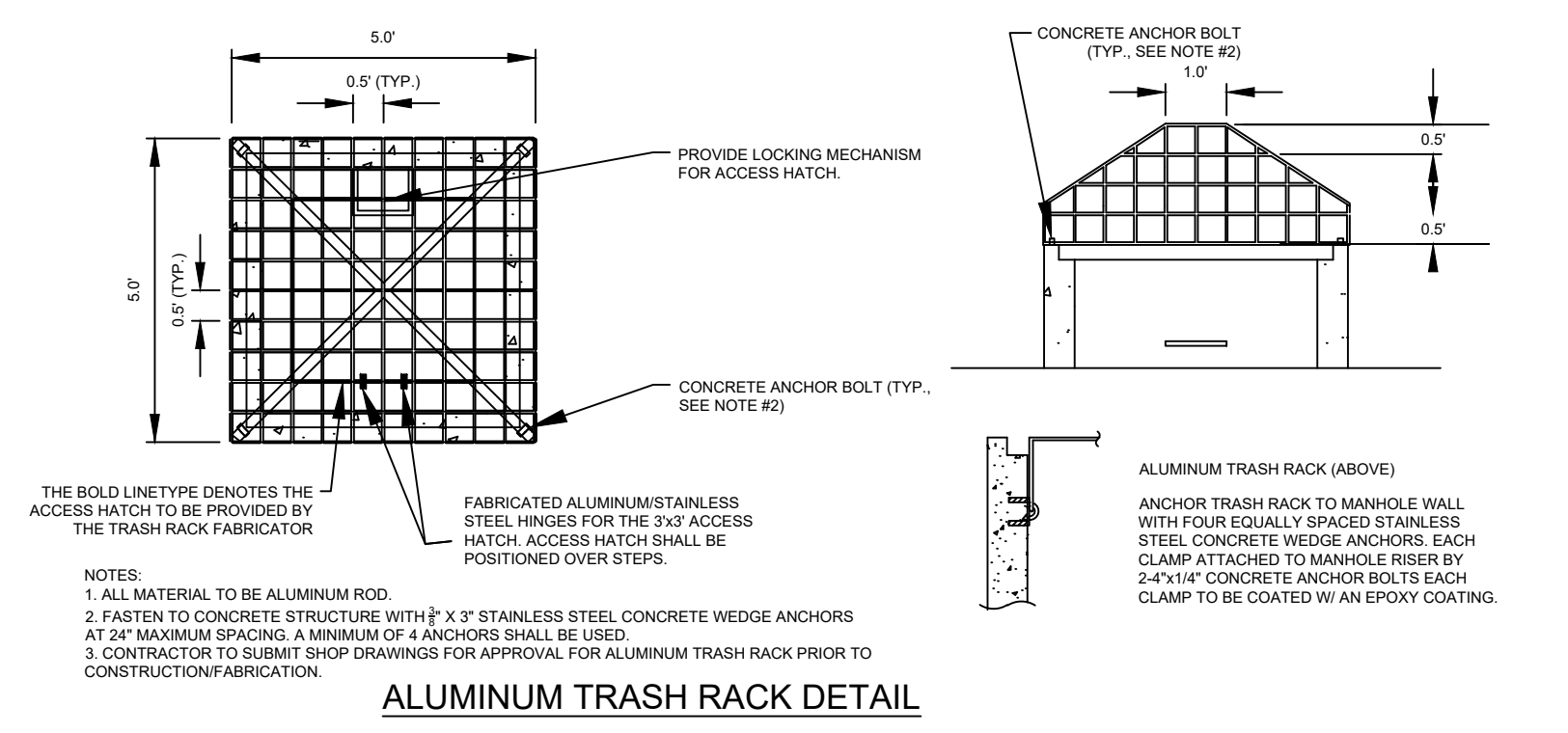
WET POND BASIN DETAIL - SCM 4
SCALE: 1" = 20'



| WET POND PLANTING CHART | | | | |
|--------------------------------|---------------------|------|--------------|-------|
| SHALLOW LAND PLANTS | | | | |
| Shallow Land Planting Area, SF | | | | 2,800 |
| Total Plants Required | | | | 700 |
| SCIENTIFIC NAME | COMMON NAME | QTY. | PCT. OF QTY. | |
| ASCLEPIAS INCARNATA | SWAMP MILK WEED | 140 | 20% | |
| LOBELIA CARDINALIS | CARDINAL FLOWER | 140 | 20% | |
| EUPATORIADELPHUS FISTULOSUS | JOE PYE WEED | 140 | 20% | |
| HIBISCUS COCCINEUS | SCARLET ROSE MALLOW | 140 | 20% | |
| KOSTELETZKYA VIRGINICA | SEASHORE MALLOW | 140 | 20% | |
| SUB TOTAL: | | 700 | 100% | |

WET POND STRUCTURE DETAILS

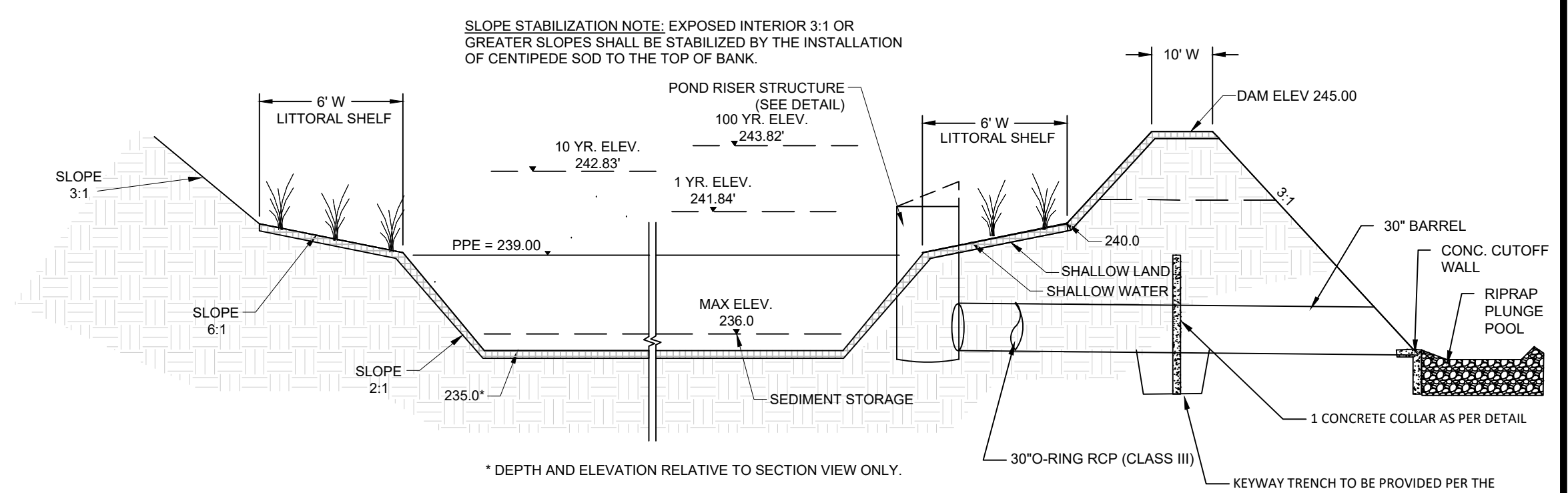
| | DESIGN | AS-BUILT |
|--|--------------------|----------|
| INLET STRUCTURE | 48" PRECAST BOX | |
| OUTLET PIPE SIZE / MATERIAL | 30" DIAMETER RCP | |
| OUTLET PIPE INVERT IN | 239.00' | |
| OUTLET PIPE INVERT OUT | 238.00' | |
| TOP OF DAM ELEVATION / WIDTH | 245.00' / 10' WIDE | |
| DEWATERING ORIFICE SIZE/ELEV | 2" @ ELEV. 239.00' | |
| DESIGN STORM ELEV (1-YR) | 241.84' | |
| DESIGN FLOW RATE (1-YR) OUT FROM BASIN (CFS) | 6.82 CFS | |



- NOTES:
- INSTALL PLANTS PER SUBCHAPTER 9.4 OF THE NCDENR STORMWATER BMP MANUAL.
 - SHALLOW WATER AND SHALLOW LAND PLANTS SHALL BE INSTALLED 2 FOOT ON CENTER AT A RATE OF 50 PLANTS PER 200 SQUARE FEET.
 - SOD INTERIOR BANK OF BMP ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS. USE TALL FESCUE ON TOP OF DAM AND ON DAM EMBANKMENT.
 - MAINTAIN HEALTH OF WETLAND PLANTINGS PER SUBCHAPTER 9.5 OF THE NCDENR STORMWATER BMP MANUAL.
 - PROVIDE 1 YEAR WARRANTY FOR PLANTS.
 - ONE YEAR (1 YR.) WARRANTY SHALL BE FULLY TRANSFERABLE TO ANY SUBSEQUENT OWNER UPON CONVEYANCE OF THE PROPERTY PRIOR TO ITS EXPIRATION.

PLANTING NOTES:

- CONTACT ENGINEER PRIOR TO CONSTRUCTION FOR PRE-CONSTRUCTION CONFERENCE.
- SOILS USED WITHIN THE WETLAND MUST ADHERE TO THE FOLLOWING REQUIREMENTS:
 - THE SOIL MIX MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES IN DIAMETER.
 - THE PH SHOULD BE BETWEEN 4.5 AND 7.0. IF THE PH FALLS OUTSIDE OF THIS RANGE, CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS FOR APPROPRIATE APPLICATION RATES.
 - ALL TOP SOILS TO BE USED WITHIN THE WETLAND SHALL BE ANALYZED AT A SOIL TESTING LAB, AND CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS BEFORE PLANTING.
- ALL MANAGED PERVIOUS AREAS SHALL BE SEEDED OR PLANTED PER THE FOLLOWING CRITERIA:
 - TILL OR DISC SOIL TO APPROPRIATE DEPTH PER NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL PERMANENT STABILIZATION REQUIREMENTS.
 - AMEND SOIL TO PROVIDE SUFFICIENT ORGANIC MATTER FOR LONG-TERM VEGETATION GROWTH AND INFILTRATION.
 - IF SOIL IS NOT AMENDED, PROVIDE JUSTIFICATION (I.E. SOIL TEST RESULTS) FOR WHY THE AMENDMENT WAS NOT NECESSARY.
 - ADDITIONAL AMENDMENTS AS NECESSARY TO ENSURE THAT THE PERVIOUS SURFACE IS INFILTRATING STORMWATER AT PRE-DEVELOPMENT RATES.
- SOIL AMENDMENTS SHOULD BE INCORPORATED AT THE END OF THE SITE DEVELOPMENT PROCESS AND THE WETLAND SHOULD BE PLANTED AND MULCHED IMMEDIATELY AFTER AMENDING THE SOIL TO STABILIZE THE SITE AS SOON AS POSSIBLE.
- WETLAND PLANTS SHALL BE OBTAINED FROM A SIMILAR PLACE OF ORIGIN OR LOCAL SOURCE TO ENSURE SURVIVABILITY. WETLAND SEED MIXES ARE NOT ALLOWED.
- INSTALL STORMWATER WETLAND PLANTS PER SUBCHAPTERS A-3 AND C-3 OF THE NCDQE STORMWATER DESIGN MANUAL.
- SOD INTERIOR BANK OF SCM ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS.
- MAINTAIN HEALTH OF STORMWATER WETLAND PLANTINGS PER SUBCHAPTER C-3 OF THE NCDQE STORMWATER DESIGN MANUAL. CONTRACTOR SHALL REPLACE ANY PLANT LOSSES WITH THE APPROPRIATE SHALLOW WATER OR SHALLOW LAND PLANTINGS AS SHOWN ON THIS SHEET FOR A MINIMUM OF 1 YEARS FROM INSTALLATION. ALL PLANTS THAT DO NOT SURVIVE AT THE END OF THE FIRST YEAR WARRANTY PERIOD MUST BE REPLACED. IF A MINIMUM COVERAGE OF 70 PERCENT IS NOT ACHIEVED IN THE PLANTED WETLAND ZONES AFTER THE SECOND GROWING SEASON, SUPPLEMENTAL PLANTING SHOULD BE COMPLETED.
- ENSURE NEWLY INSTALLED PLANTINGS ARE PROVIDED WITH ADEQUATE WATER, ESPECIALLY DURING DRY PERIODS.
- NEW PLANTINGS SHOULD BE INSPECTED FREQUENTLY AND MAINTENANCE PERFORMED OR PLANTING REPLACED AS NEEDED.
- TREES OR SHRUBS SHALL NOT BE PLANTED ON ANY PORTIONS OF WATER IMPOUNDING EMBANKMENTS, WITHIN THEIR SPILLWAYS/CHANNELS, AND THE REQUIRED ACCESS AND MAINTENANCE EASEMENT.



WET POND DETAIL - SECTION A-A
NTS

SEE D-15 FOR EMERGENCY SPILLWAY SECTION

DECOMMISSIONING A SEDIMENT BASIN:

- CALL FOR ON-SITE DETERMINATION MEETING WHEN REQUESTING TO DECOMMISSION/ PHASE OUT A TEMPORARY SEDIMENT BASIN.
- DETERMINATION CAN ONLY BE MADE BY THE LOCAL EROSION CONTROL SPECIALIST AND/OR HIS OR HER SUPERVISOR.
- ONCE IT HAS BEEN AGREED THAT THE TEMPORARY SEDIMENT BASIN CAN BE REMOVED, IT MUST BE MARKED AND INITIALED BY THE EROSION CONTROL INSPECTOR.
- IF THE SEDIMENT BASIN HAS WATER IN IT, THE WATER MUST BE PUMPED OUT FROM THE SURFACE INTO A FILTER BAG ON A LEVEL AREA FREE OF DEBRIS (OR ANOTHER APPROVED METHOD WITH NON-EROSIVE PROPERTIES).
- REMOVE SKIMMER AND PLUG ANY HOLES IN THE RISER (IF APPLICABLE) AND REMOVE ALL BAFFLE MATERIALS.
- IF THERE IS A LOT OF SEDIMENT/SILT IN THE BOTTOM OF THE BASIN, MIX WITH DRY MATERIAL OR SET ASIDE TO DRY, BEFORE HAULING OFF.
- FILL/CONVERT BASIN PER THE APPROVED GRADING PLAN.
- AFTER FINAL GRADING HAS BEEN COMPLETED, AREA MUST BE STABILIZED WITH LIME, SEED, FERTILIZER, STRAW AND TACK ACCORDING TO WAKE COUNTY'S SEEDING APPLICATION RATES AND SPECS.

DAM EMBANKMENT CONSTRUCTION STANDARDS:

- CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR OR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + 0. - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998.
- ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL. PRIOR TO COMPACTION TO THE REQUIRED DENSITY, SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
- FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
- ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
- SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
- FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
- TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E., TREATMENT WITH SLUSH GROUTING, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER.
- FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES.
- EARTHWORK COMPACTION WITHIN 3-FEET OF ANY STRUCTURES SHALL BE ACCOMPLISHED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIATURE SELF-PROPELLED ROLLERS.
- COMPACTION BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED.
- HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED.
- TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 2- TO 3- INCH LAYER OF TOP SOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND SODDED OR HYDROSEEDDED.
- PROVIDE A 6" MIN. IMPERMEABLE CLAY LAYER AT THE BOTTOM OF POND.

PROJECT NO. 19-0103
DRAWING NAME: 19-0103_d_scm.dwg
SHEET NO. D-17

CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
915 PONY ROAD ZEBULON, NC

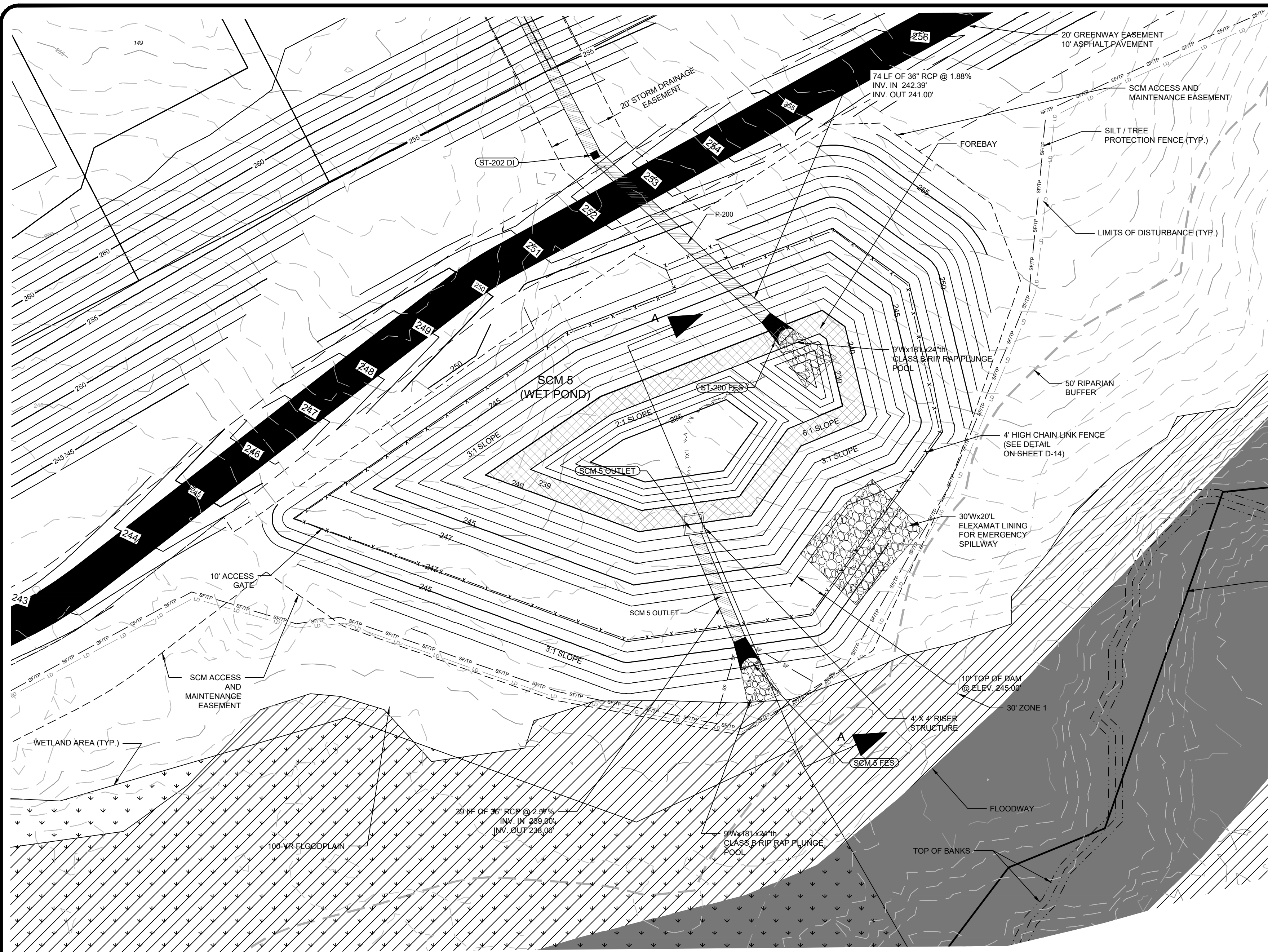
PROJECT ENGINEER/ARCHITECT: AMI ALEXANDROT@SUMMITDESIGN.COM
PROJECT MANAGER: DAS@SUMMITDESIGN.COM
DRAWING ALTERNATE: JALUMPHY@SUMMITDESIGN.COM
DATE: 11/07/2021

REVISIONS:

| NO. | DATE | BY | REVISIONS |
|-----|------------|-----|--|
| 1 | 11/07/2021 | DAS | FINAL SET |
| 2 | 12/25/2021 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 4 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 5 | 05/27/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 |
| 6 | 06/07/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 |
| 7 | 09/07/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 |

SEAL 24627
PROFESSIONAL ENGINEER
09/01/2022

State License #: P-0339
330 Executive Court
Hillsborough, NC 27278
Voice: (919) 732-3883 Fax: (919) 732-6676
www.summitusd.com

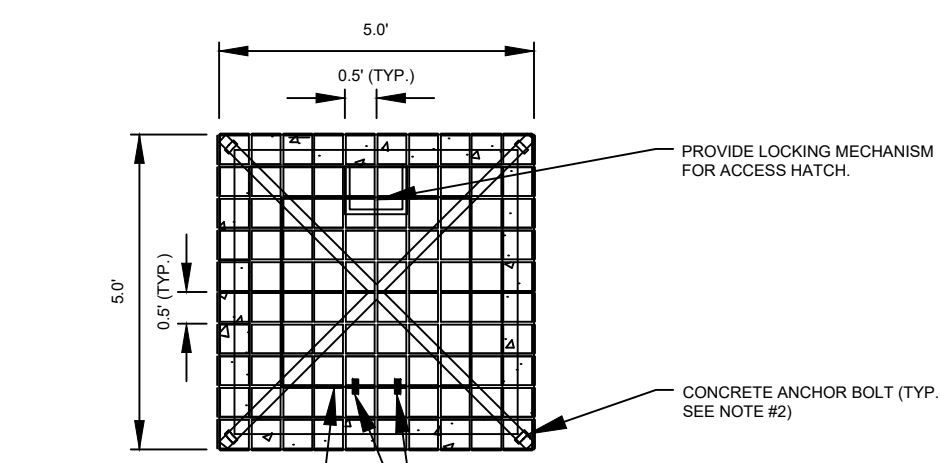


WET DETENTION BASIN DETAIL - SCM 5
SCALE: 1" = 20'

| WET POND PLANTING CHART | | | |
|--------------------------------|---------------------|------------|--------------|
| SHALLOW LAND PLANTS | | 1,500 | |
| Shallow Land Planting Area, SF | | 400 | |
| Total Plants Required | | 400 | |
| SCIENTIFIC NAME | COMMON NAME | QTY. | PCT. OF QTY. |
| ASCLEPIAS INCARNATA | SWAMP MILK WEED | 80 | 20% |
| LOBELIA CARDINALIS | CARDINAL FLOWER | 80 | 20% |
| EUPATORIADELPHUS FISTULOSUS | JOE PYE WEED | 80 | 20% |
| HIBISCUS COCCINEUS | SCARLET ROSE MALLOW | 80 | 20% |
| KOSTELETZKYA VIRGINICA | SEASHORE MALLOW | 80 | 20% |
| SUB TOTAL: | | 400 | 100% |

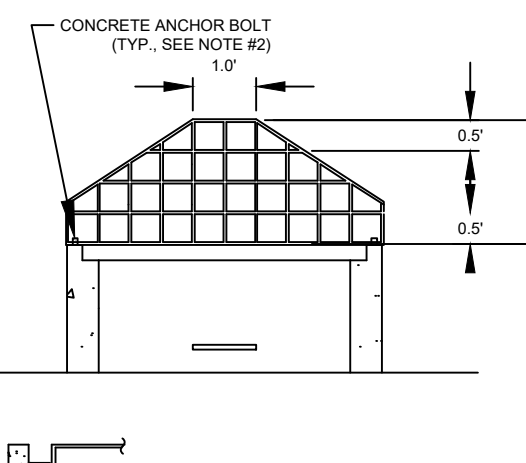
WET POND STRUCTURE DETAILS

| | DESIGN | AS-BUILT |
|--|--------------------|----------|
| INLET STRUCTURE | 48" PRECAST BOX | |
| OUTLET PIPE SIZE / MATERIAL | 36" DIAMETER RCP | |
| OUTLET PIPE INVERT IN | 238.00' | |
| OUTLET PIPE INVERT OUT | 238.00' | |
| TOP OF DAM ELEVATION / WIDTH | 245.00' / 10' WIDE | |
| DEWATERING ORIFICE SIZE/ELEV | 2" @ ELEV. 239.00' | |
| DESIGN STORM ELEV (1-YR) | 243.69' | |
| DESIGN FLOW RATE (1-YR) OUT FROM BASIN (CFS) | 11.83 CFS | |



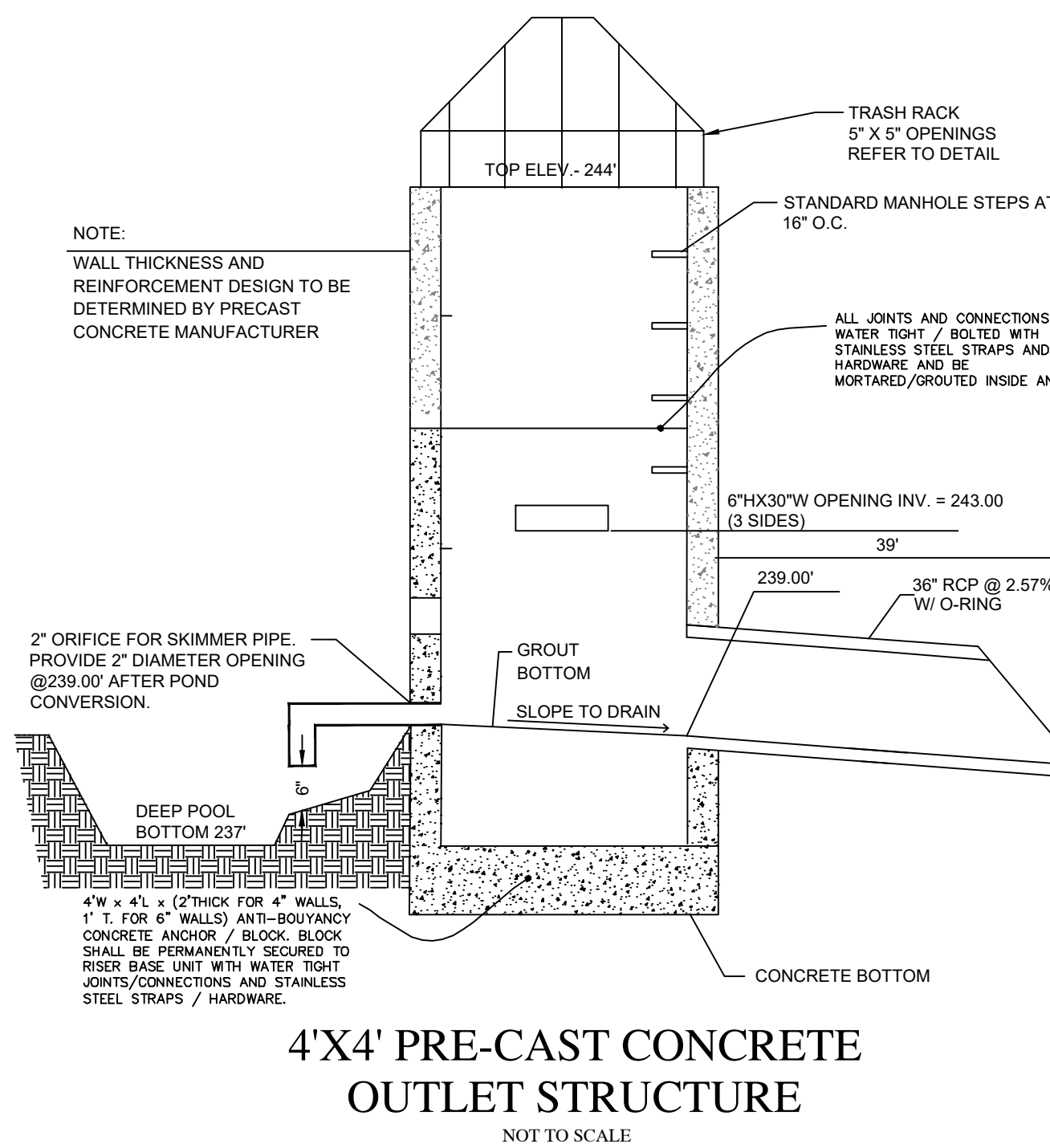
ALUMINUM TRASH RACK DETAIL

1. ALL MATERIAL TO BE ALUMINUM ROD.
2. FASTEN TO CONCRETE STRUCTURE WITH 1/2" X 3" STAINLESS STEEL CONCRETE WEDGE ANCHORS AT 5' MAXIMUM SPACING. A MINIMUM OF 4 ANCHORS SHALL BE USED.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALUMINUM TRASH RACK PRIOR TO CONSTRUCTION/FABRICATION.



4'X4' PRE-CAST CONCRETE OUTLET STRUCTURE
NOT TO SCALE

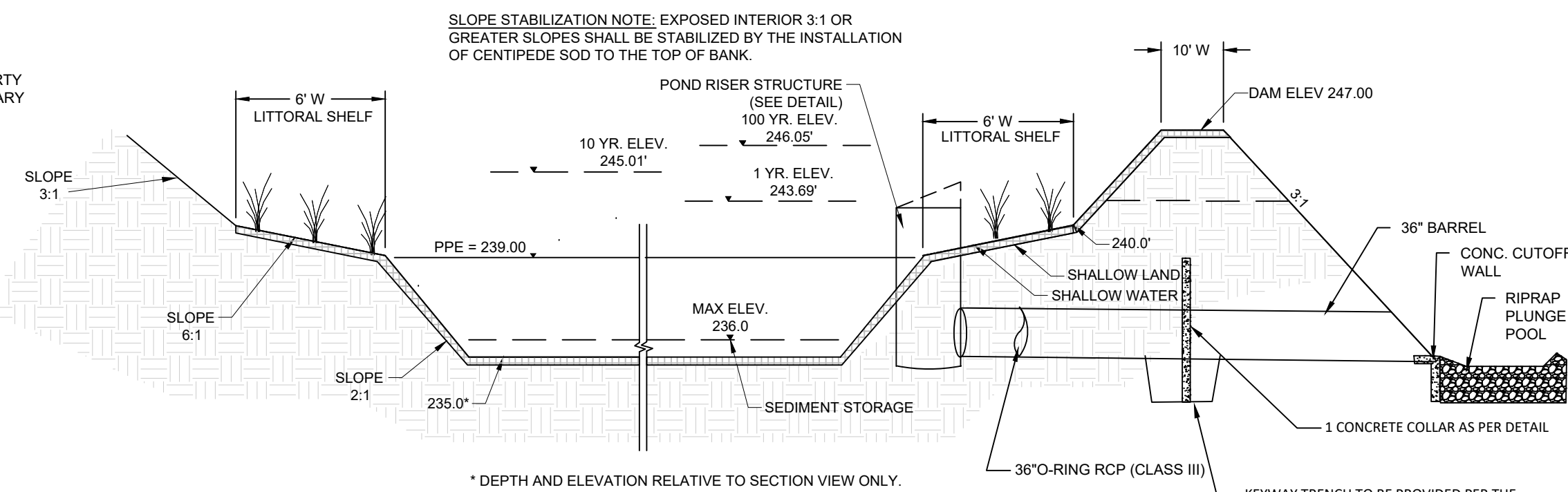
NOTE:
WALL THICKNESS AND REINFORCEMENT DESIGN TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER



- NOTES:**
- INSTALL PLANTS PER SUBCHAPTER 9.4 OF THE NCDENR STORMWATER BMP MANUAL.
 - SHALLOW WATER AND SHALLOW LAND PLANTS SHALL BE INSTALLED 2 FOOT ON CENTER AT A RATE OF 50 PLANTS PER 200 SQUARE FEET.
 - SOD INTERIOR BANK OF BMP ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS. USE TALL FESCUE ON TOP OF DAM AND ON DAM EMBANKMENT.
 - MAINTAIN HEALTH OF WETLAND PLANTINGS PER SUBCHAPTER 9.5 OF THE NCDENR STORMWATER BMP MANUAL.
 - PROVIDE 1 YEAR WARRANTY FOR PLANTS.
 - ONE YEAR (1 YR.) WARRANTY SHALL BE FULLY TRANSFERABLE TO ANY SUBSEQUENT OWNER UPON CONVEYANCE OF THE PROPERTY PRIOR TO ITS EXPIRATION.

PLANTING NOTES:

- CONTACT ENGINEER PRIOR TO CONSTRUCTION FOR PRE-CONSTRUCTION CONFERENCE.
- SOILS USED WITHIN THE WETLAND MUST ADHERE TO THE FOLLOWING REQUIREMENTS:
 - THE SOIL MIX MUST BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES IN DIAMETER.
 - THE PH SHOULD BE BETWEEN 4.5 AND 7.0. IF THE PH FALLS OUTSIDE OF THIS RANGE, CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS FOR APPROPRIATE APPLICATION RATES.
 - ALL TOP SOILS TO BE USED WITHIN THE WETLAND SHALL BE ANALYZED AT A SOIL TESTING LAB, AND CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST RESULTS BEFORE PLANTING.
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 - AMEND SOIL TO PROVIDE SUFFICIENT ORGANIC MATTER FOR LONG-TERM VEGETATION GROWTH AND INFILTRATION.
 - IF SOIL IS NOT AMENDED, PROVIDE JUSTIFICATION (I.E. SOIL TEST RESULTS) FOR WHY THE AMENDMENT WAS NOT NECESSARY.
 - ADDITIONAL AMENDMENTS AS NECESSARY TO ENSURE THAT THE PEROUS SURFACE IS INFILTRATING STORMWATER AT PRE-DEVELOPMENT RATES.
- SOIL AMENDMENTS SHOULD BE INCORPORATED AT THE END OF THE SITE DEVELOPMENT PROCESS AND THE WETLAND SHOULD BE PLANTED AND MULCHED IMMEDIATELY AFTER AMENDING THE SOIL TO STABILIZE THE SITE AS SOON AS POSSIBLE.
- SOD INTERIOR BANK OF SCM ABOVE SHALLOW LAND ELEVATION WITH CENTIPEDE GRASS.
- WETLAND PLANTS SHALL BE OBTAINED FROM A SIMILAR PLACE OF ORIGIN OR LOCAL SOURCE TO ENSURE SURVIVABILITY. WETLAND SEED MIXES ARE NOT ALLOWED.
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- ENSURE NEWLY INSTALLED PLANTINGS ARE PROVIDED WITH ADEQUATE WATER, ESPECIALLY DURING DRY PERIODS.
- NEW PLANTINGS SHOULD BE INSPECTED FREQUENTLY AND MAINTENANCE PERFORMED OR PLANTING REPLACED AS NEEDED.
- TREES OR SHRUBS SHALL NOT BE PLANTED ON ANY PORTIONS OF WATER IMPOUNDING EMBANKMENTS, WITHIN THEIR SPILLWAYS/CHANNELS, AND THE REQUIRED ACCESS AND MAINTENANCE EASEMENT.



WET POND DETAIL - SECTION A-A
NTS

SEE D-15 FOR EMERGENCY SPILLWAY SECTION

NOTE: SEASONAL HIGH WATER TABLE AT 240.0' ON 5/1/2022. FOR WETPOND, NO SEPARATION IS NEEDED FROM SHWT.

DECOMMISSIONING A SEDIMENT BASIN:

- CALL FOR ON-SITE DETERMINATION/MEETING WHEN REQUESTING TO DECOMMISSION/PHASE OUT A TEMPORARY SEDIMENT BASIN.
- DETERMINATION CAN ONLY BE MADE BY THE LOCAL EROSION CONTROL SPECIALIST AND/OR HIS OR HER SUPERVISOR.
- ONCE IT HAS BEEN AGREED THAT THE TEMPORARY SEDIMENT BASIN CAN BE REMOVED, IT MUST BE MARKED AND INITIALED BY THE EROSION CONTROL INSPECTOR.
- IF THE SEDIMENT BASIN HAS WATER IN IT, THE WATER MUST BE PUMPED OUT FROM THE SURFACE INTO A FILTER BAG ON A LEVEL AREA FREE OF DEBRIS (OR ANOTHER APPROVED METHOD WITH NON-EROSIVE PROPERTIES).
- REMOVE SKIMMER AND PLUG ANY HOLES IN THE RISER (IF APPLICABLE) AND REMOVE ALL BUFILE MATERIALS.
- IF THERE IS A LOT OF SEDIMENT/SILT IN THE BOTTOM OF THE BASIN, MIX WITH DRY MATERIAL OR SET ASIDE TO DRY, BEFORE HAULING OFF.
- FILL/CONVERT BASIN PER THE APPROVED GRADING PLAN.
- AFTER FINAL GRADING HAS BEEN COMPLETED, AREA MUST BE STABILIZED WITH LIME, SEED, FERTILIZER, STRAW AND TACK ACCORDING TO WAKE COUNTY'S SEEDING APPLICATION RATES AND SPECS.

DAM EMBANKMENT CONSTRUCTION STANDARDS:

- CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR OR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698.
- ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL. PRIOR TO COMPACTION TO THE REQUIRED DENSITY, SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
- FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
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- SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
- FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
- TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E., TREATMENT WITH SLUSH GRouting, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER.
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- EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED.
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- PROVIDE A 6\"/>

REVISIONS

| NO. | DATE | BY | REVISIONS |
|-----|------------|-----|--|
| 6 | 06/07/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 05/24/2022 |
| 5 | 05/03/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 04/27/2022 |
| 4 | 04/06/2022 | DAS | REVISED PER CITY OF RALEIGH REVIEW COMMENTS 03/24/2022 |
| 3 | 04/06/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 03/24/2022 |
| 2 | 02/25/2022 | DAS | REVISED PER WAKE COUNTY REVIEW COMMENTS 12/14/2021 |
| 1 | 01/07/2022 | DAS | REVISED PER TOWN OF ZEBULON REVIEW COMMENTS 11/22/2021 |

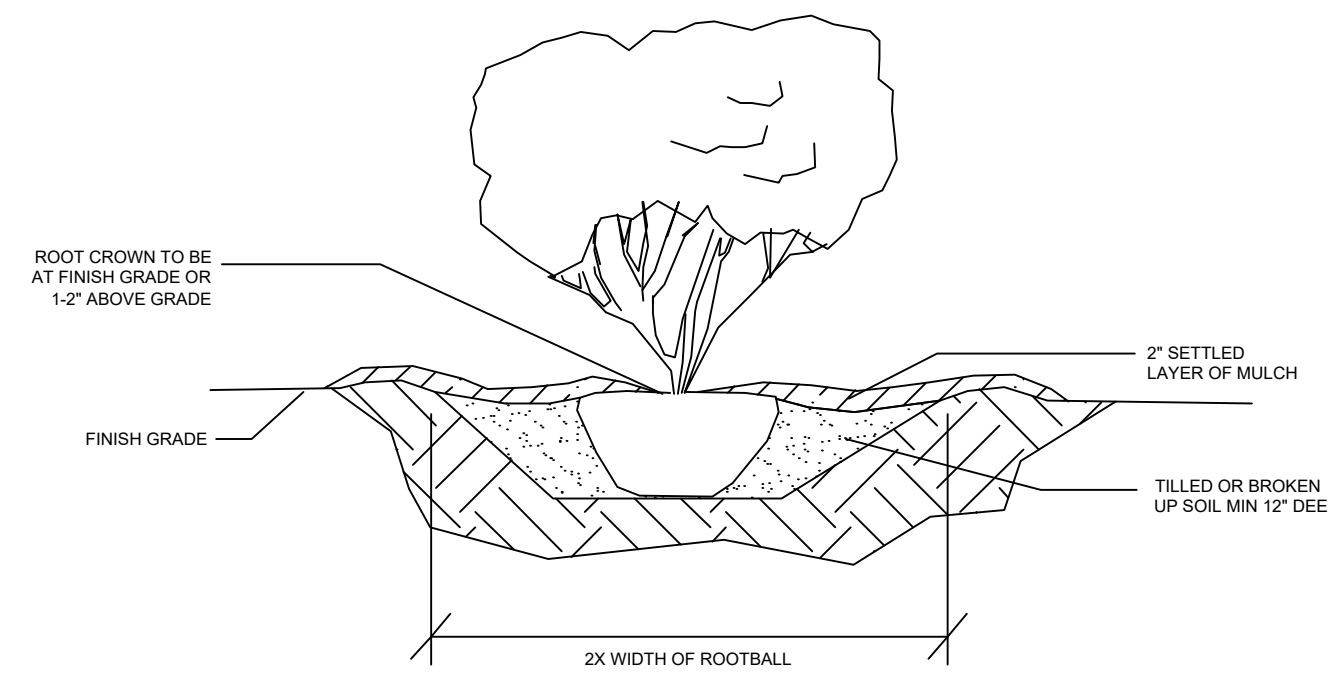
PROJECT INFORMATION:
 PROJECT NO. 19-0103
 DRAWING NAME: 19-0103_d_scm.dwg
 SHEET NO. D-18

CONSTRUCTION DRAWINGS FOR CADENCE MEADOWS
 915 PONY ROAD
 ZEBULON, NC

SCM 5 PLAN & DETAILS

SUMMIT DESIGN AND ENGINEERING SERVICES
 State License #: P-0339
 330 Executive Court
 Hillsborough, NC 27278
 Voice: (919) 732-3883 Fax: (919) 732-6676
 www.summitus.com

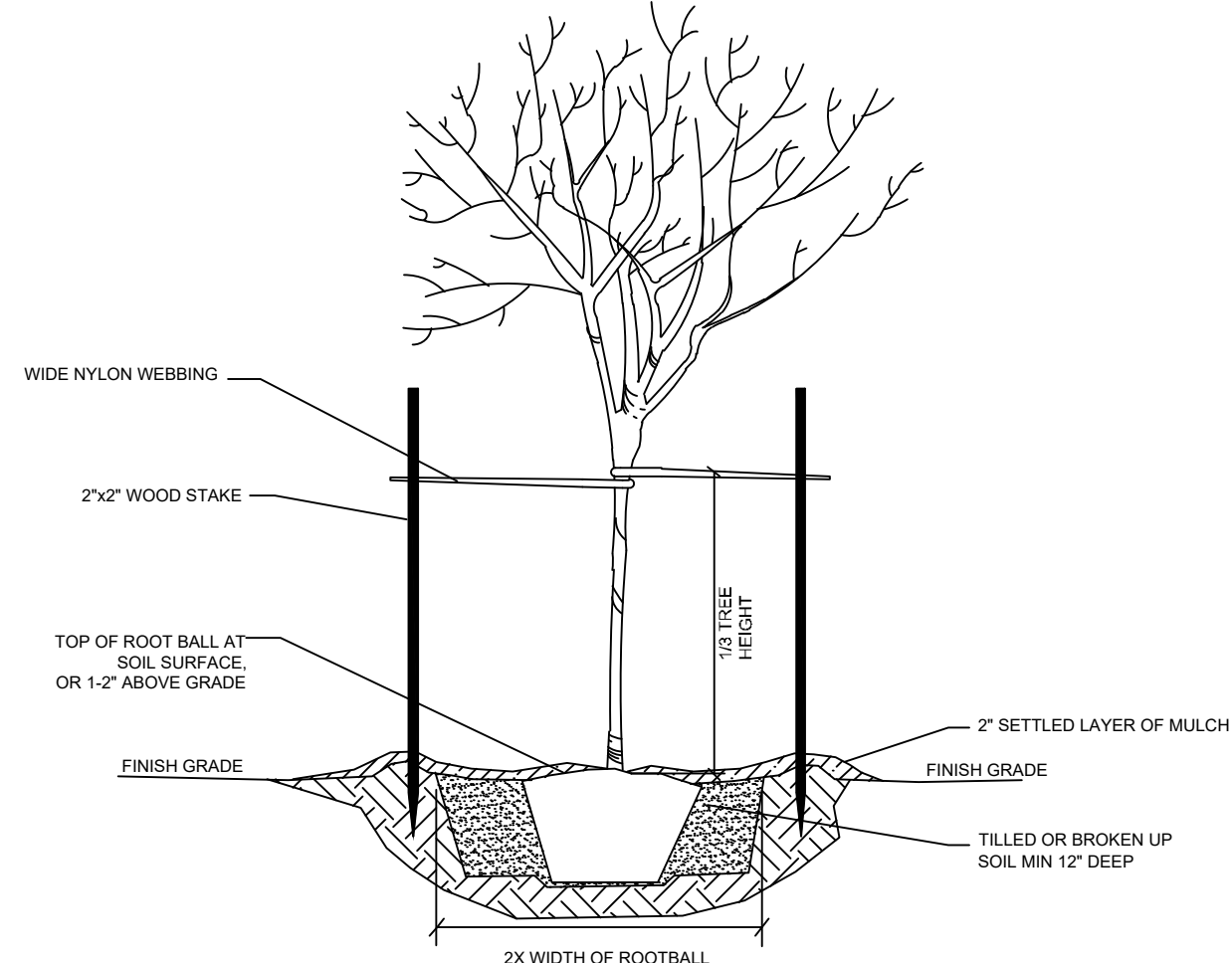
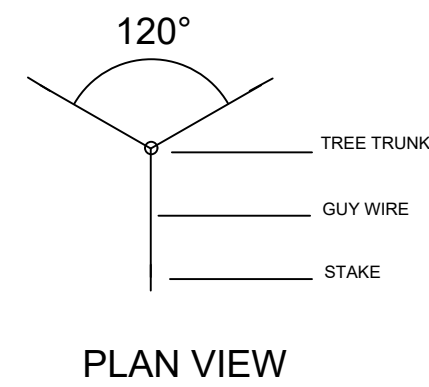
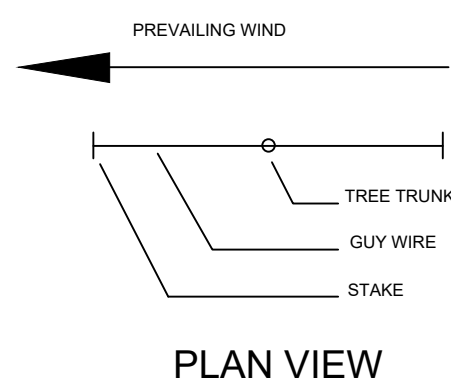
PROFESSIONAL SEAL
 SEAL 24627
 J. LAMMY ASHLEY, P.E.
 09/01/2022



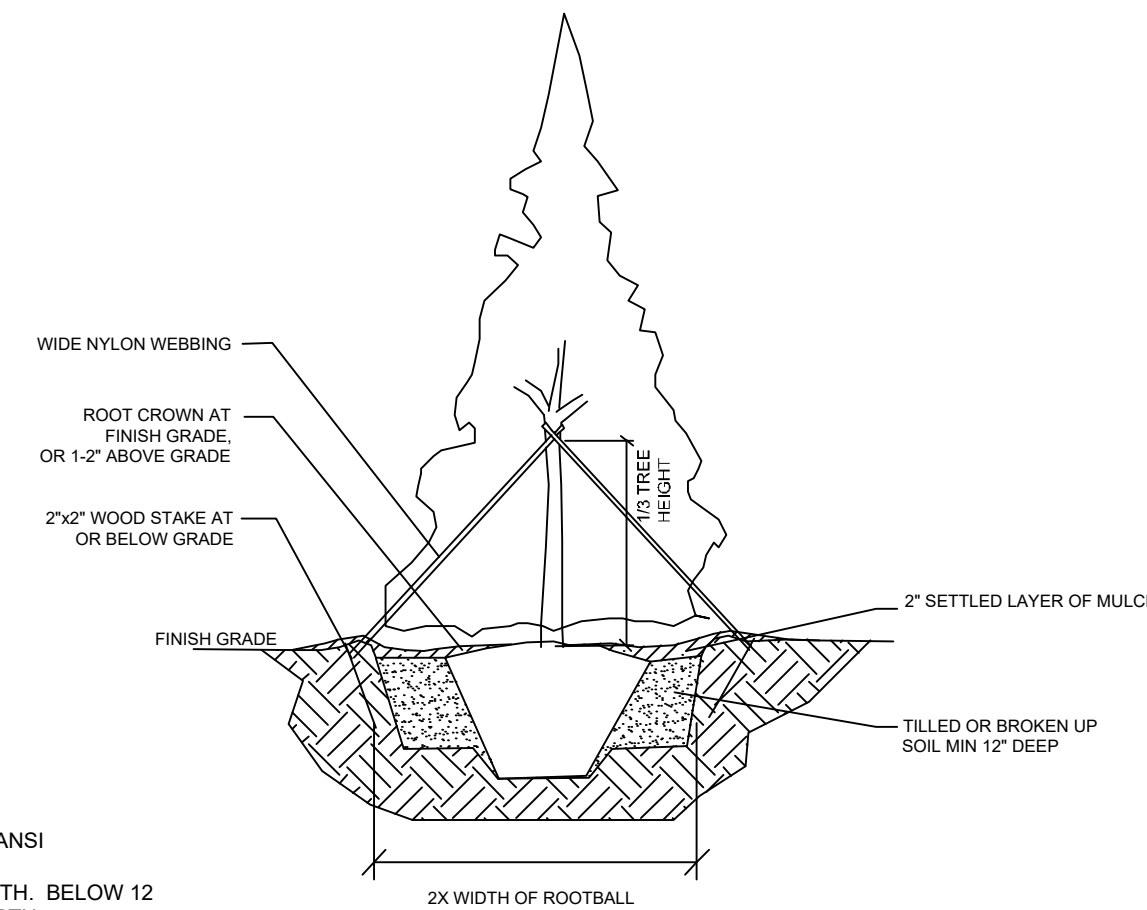
TYP. SHRUB PLANTING:
INDIVIDUAL PLANTING HOLE
NOT TO SCALE

NOTES: TYPICAL SHRUB PLANTING, INDIVIDUAL PLANTING HOLE

1. DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER
2. SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL
3. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2\"/>



SMALL TREE PLANTING (<2\"/>



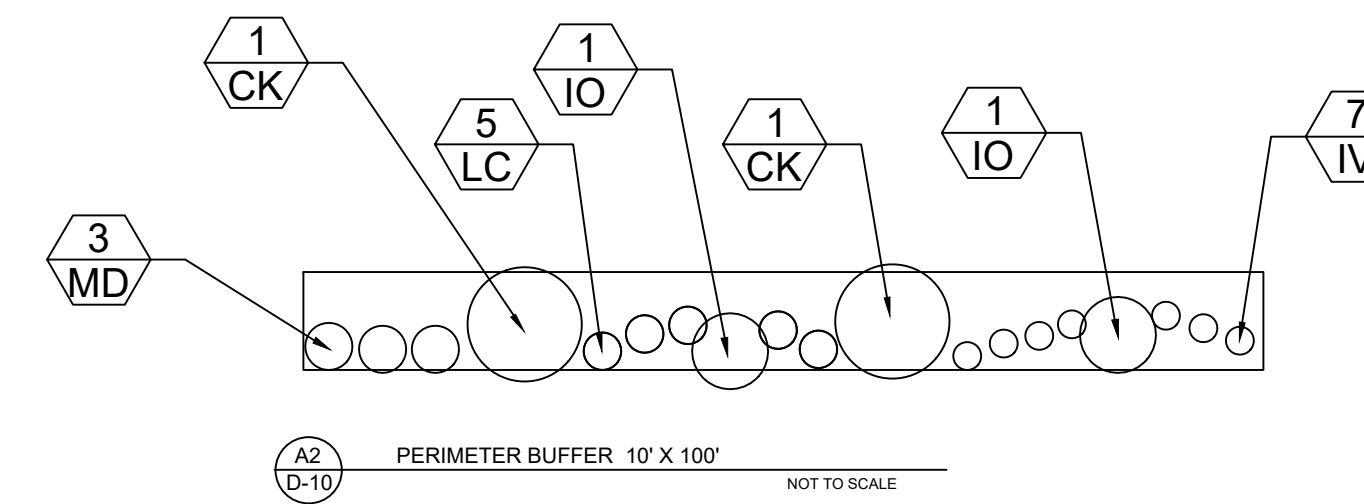
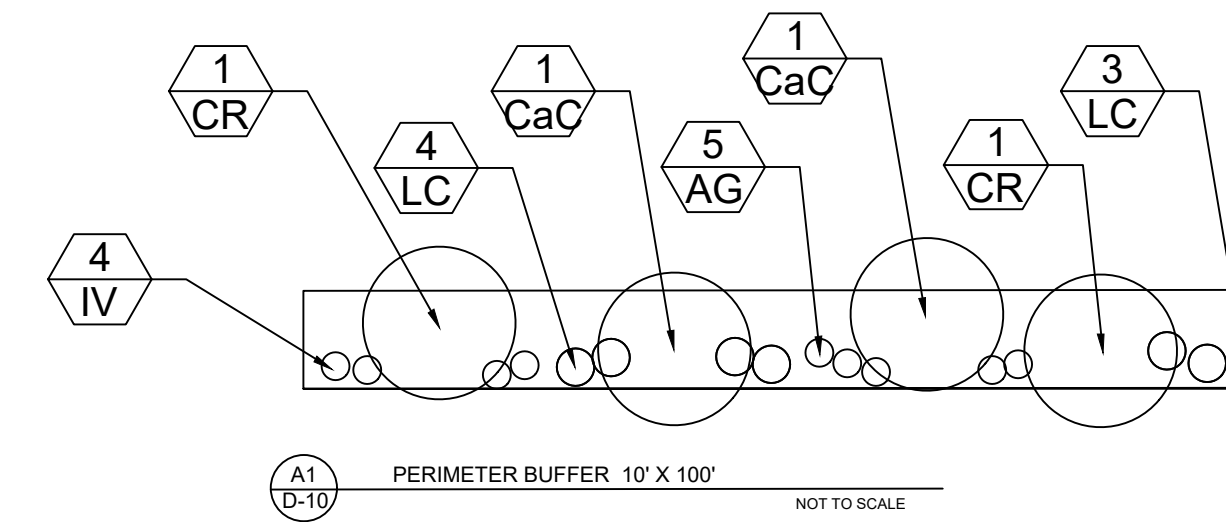
EVERGREEN TREE PLANTING
NOT TO SCALE

NOTES: TREE PLANTING

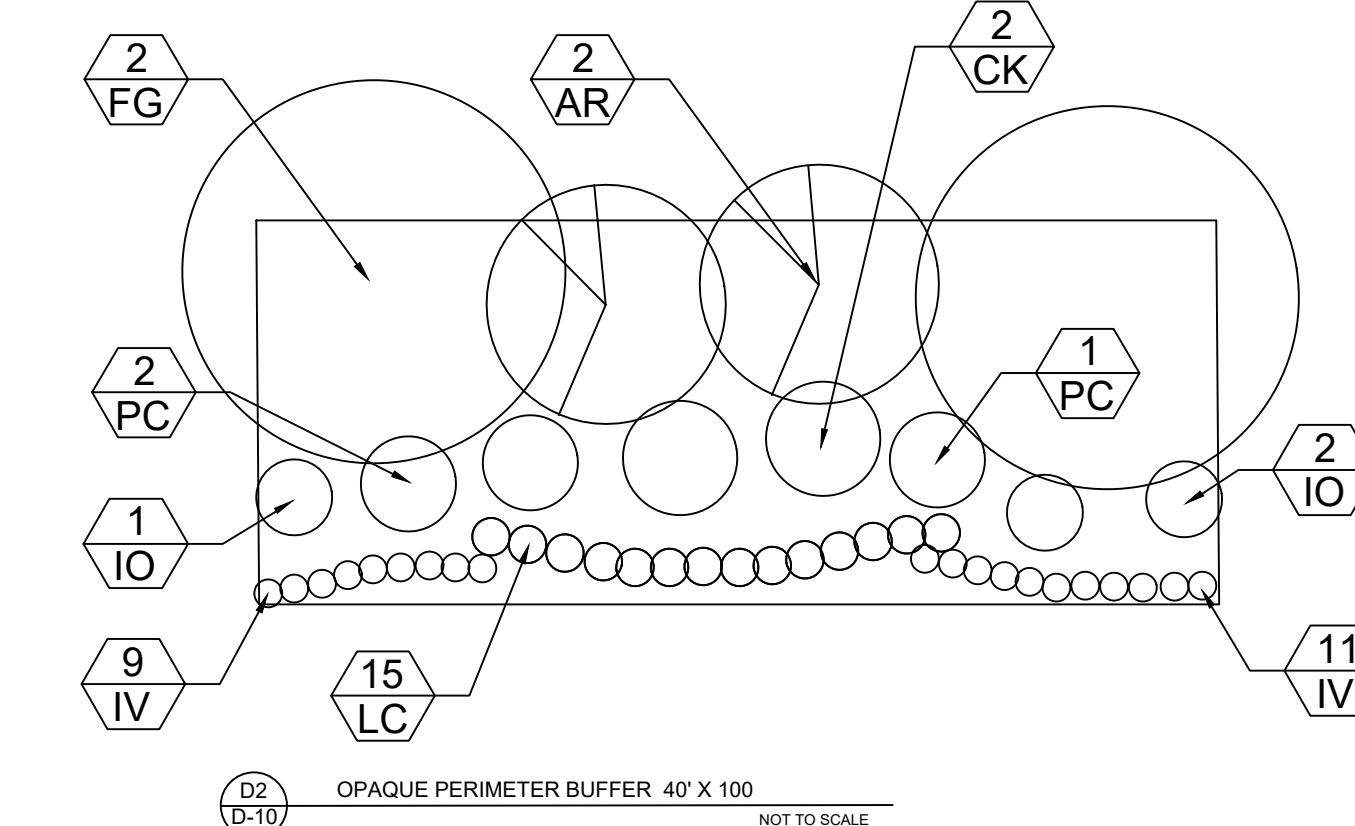
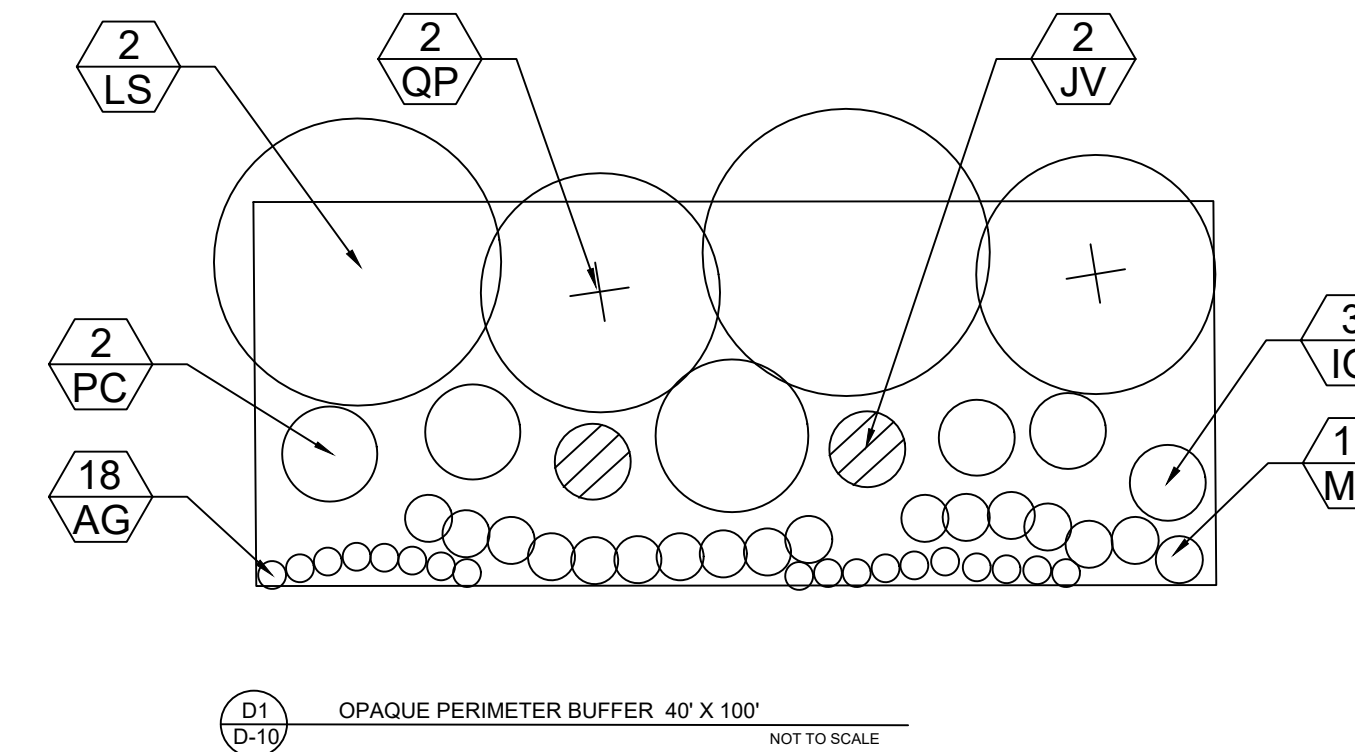
1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE THREE 2\"/>

BUFFER DETAILS

TYPE A PERIMETER BUFFER



TYPE D OPAQUE PERIMETER BUFFER



| KEY | BOTANICAL NAME | COMMON NAME |
|----------------------------|---------------------------------------|----------------------------|
| STREET-CANOPY TREES | | |
| AF | ACER FREEMANII 'AUTUMN BLAZE' | AUTUMN BLAZE MAPLE |
| AR | ACER RUBRUM 'OCTOBER GLORY' | OCTOBER GLORY MAPLE |
| FG | FAGUS GRANDIFOLIA | AMERICAN BEECH |
| NS | WILDFIRE BLACK GUM | NYSSA SYLVATICA 'WILDFIRE' |
| LS | LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA' | FRUITLESS SWEETGUM |
| QP | QUERCUS PALUSTRIS | PIN OAK |
| TT | TILIA TOMENTOSA 'STERLING SILVER' | STERLING SILVER LINDEN |
| UP | ULMUS PARVIFOLIA 'ALLEE' | ALLEE CHINESE ELM |
| ZV | ZELKOVA SERRATA 'VILLAGE GREEN' | VILLAGE GREEN ZELKOVA |
| UNDERSTORY TREES | | |
| CaC | CARPINUS CAROLINIANA | AMERICAN HORNBEAM |
| CK | CORNUS KOUSA | KOUSA DOGWOOD |
| CR | CERCIS CANADENSIS | EASTERN REDBUD |
| IO | ILEX OPACA | AMERICAN HOLLY |
| JV | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR |
| PC | PRUNUS CAROLINIANA | CAROLINA CHERRY LAUREL |
| SHRUBS | | |
| AG | ABELIA GRANDIFLORA | GLOSSY ABELIA |
| IE | ILEX X EMILY BRUNER | EMILY BRUNER HOLLY |
| IV | ILEX VOMITORIA 'NANA' | DWARF YAUPON HOLLY |
| LC | LOROPETALUM CHINENSIS 'RUBY' | RUBY LOROPETALUM |
| MD | MYRICA CERIFERA 'DONS DWARF' | DONS DWARF WAX MYRTLE |

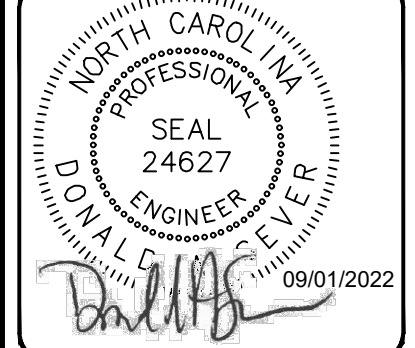


Know what's below.
Call before you dig.

| NO. | DATE | BY |
|-----|------------|-----|
| 7 | 09/01/2022 | DAS |
| 6 | 05/07/2022 | DAS |
| 5 | 05/03/2022 | DAS |
| 4 | 04/09/2022 | DAS |
| 3 | 04/06/2022 | DAS |
| 2 | 03/25/2022 | DAS |
| 1 | 01/07/2022 | DAS |

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SYSTEMS WITHOUT PERMISSION IN WRITING
FROM THE ENGINEER AND ARCHITECT.

PROJECT ENGINEER/ARCHITECT
AM/ALX/MAGOT@SUMMITDE.NET
PROJECT MANAGER
DAS/DON.SCHER@SUMMITDE.NET
DRAWN BY
JLA/JIMMY.ASHLEY@SUMMITDE.NET
FIRST ISSUE DATE
10/01/2021



SUMMIT
DESIGN AND ENGINEERING SERVICES
State License #: P-0339
320 Executive Court
Hillsborough, NC 27278
Voice: (919) 732-8883 Fax: (919) 732-4676
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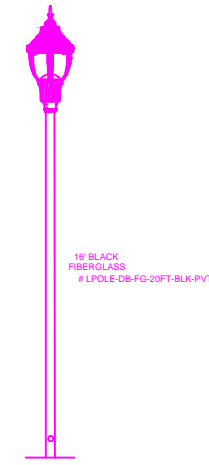
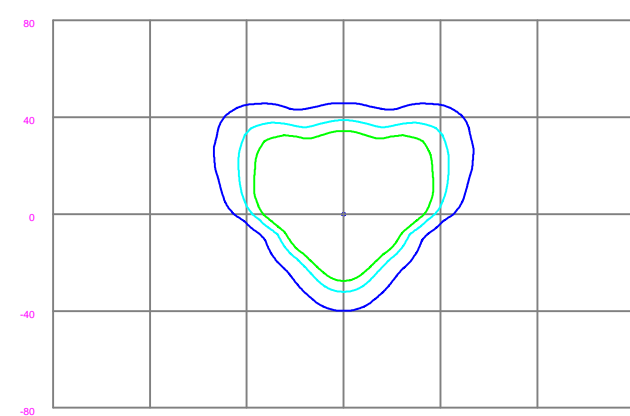
CONSTRUCTION DRAWINGS FOR
CADENCE MEADOWS
915 PONY ROAD
ZEBULON, NC
LANDSCAPE DETAILS & NOTES

PROJECT NO.
19-0103
DRAWING NAME:
19-0103_d.dwg
SHEET NO.
D-19

ISOFOOTCANDLE CURVES

FIGURE: MITCHELL OPEN LED
 MOUNTING HEIGHT: 18 FT
 LIGHT SOURCE: 50W LED'S, 3000K
 PATTERN: TYPE III, BI-LUMINOUS

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



LEGEND (OUTER to INNER): 0.100, 0.200, 0.300

| Symbol | Label | Quantity | Description | Number Lamps | Lumens Per Lamp | Light Loss Factor |
|--------|-------|----------|--|--------------|-----------------|-------------------|
| | A | 124 | LED 50w Mitchell Open - Type III - 3000K - Public | 1 | 4104 | 0.85 |
| | B | 11 | LED 50w Mitchell Open - Type III - 3000K - Private | 1 | 4104 | 0.85 |



| REV# | DATE | REVISION |
|------|------------|-----------------------------|
| R B | 05 31 2022 | B F U L L S P C R LED M O F |
| R A | 11 30 2021 | LED M |

Customer approval _____
 Date _____

WSM
 NJ
 BY _____

DISTANCE CALIBRATION (INCHES)

LIGHTING DESIGN TOLERANCE

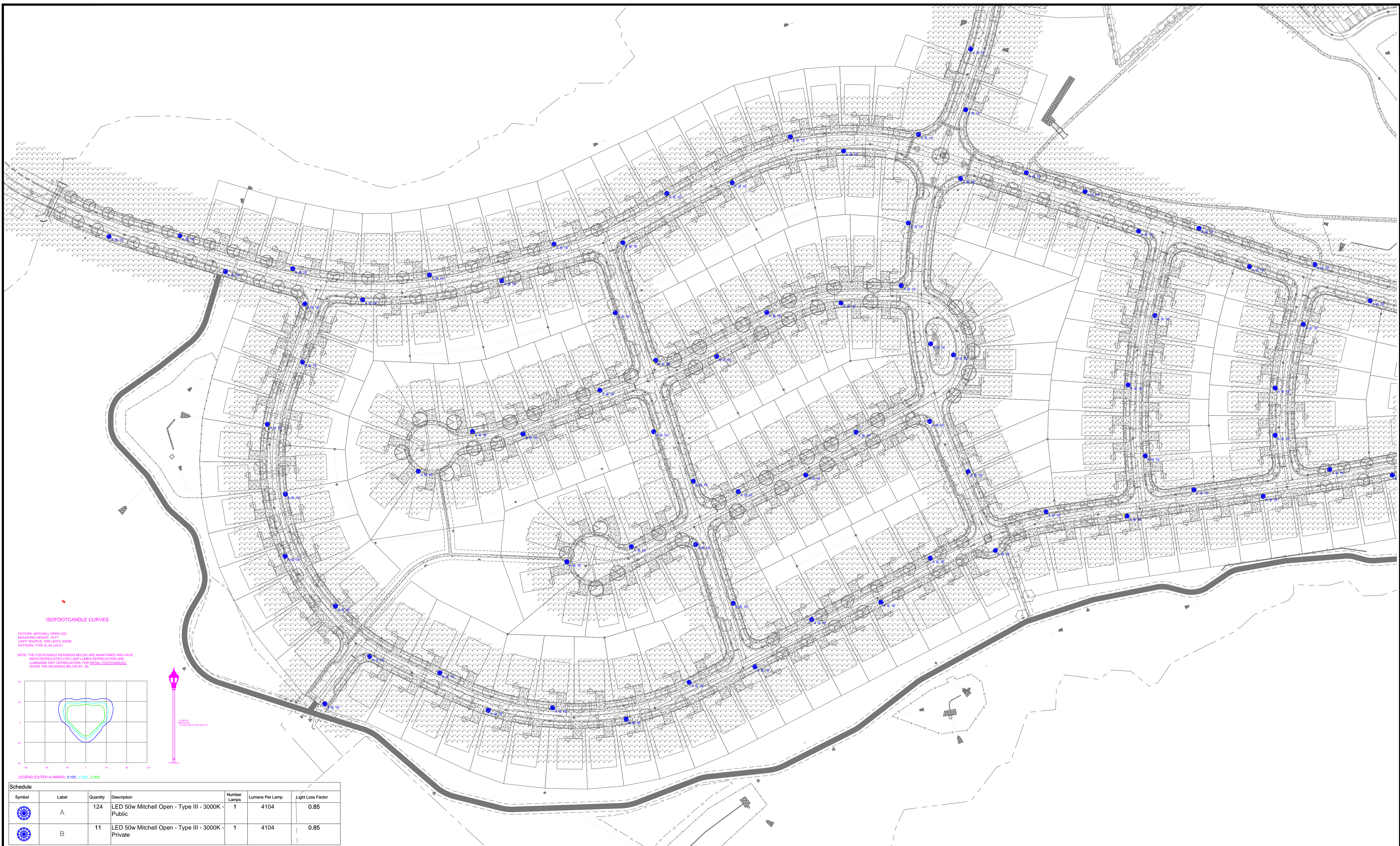
The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (follage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.



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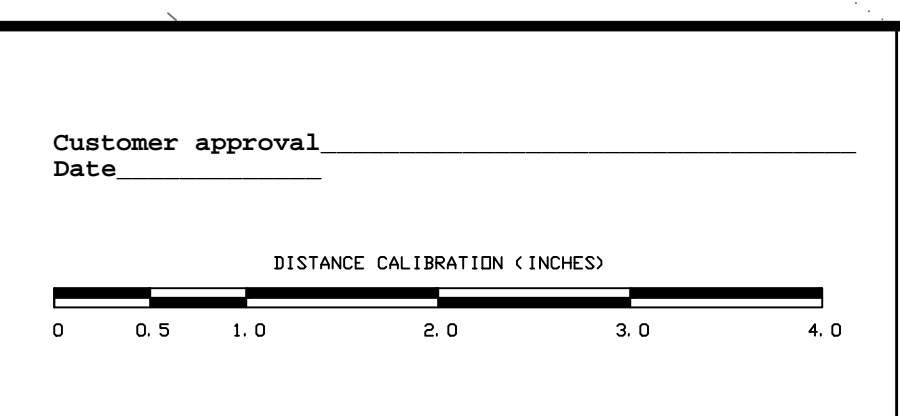
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| | |
|------------------------|---------------------------|
| CADENCE MEADOWS | |
| ZEBULON, NC | |
| SITE LIGHTING PLAN | |
| Designed by | DEP LIGHTING SOLUTIONS |
| Reviewed by | N. Johnson Scale 1" = 80' |
| Date | 11/30/2021 Size "Arch D" |
| Description | LED Mitchell |
| Drawing No. | 21-0391B Sht. 1 OF 2 |



| | | |
|-------------------|-------|-----|
| Customer approval | _____ | WSM |
| Date | _____ | NJ |
| BY | _____ | BY |

| REV# | DATE | REVISION |
|------|------------|-----------------------------|
| R B | 05 31 2022 | B F U L L S P C R LED M O F |
| R A | 11 30 2021 | LED M |



LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.



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| | |
|------------------------|---------------------------|
| CADENCE MEADOWS | |
| Zebulon, NC | |
| SITE LIGHTING PLAN | |
| Designed by | DEP LIGHTING SOLUTIONS |
| Reviewed by | N. Johnson Scale 1" = 80' |
| Date | 11/30/2021 Size "Arch D" |
| Description | LED Mitchell |
| Drawing No. | 21-0391B Sht. 1 OF 1 |