

# CONSTRUCTION DOCUMENTS

## Proposed Tractor Supply Old US Highway 264 Zebulon, North Carolina Wake County IDT# 782339

### WAKE COUNTY NOTES

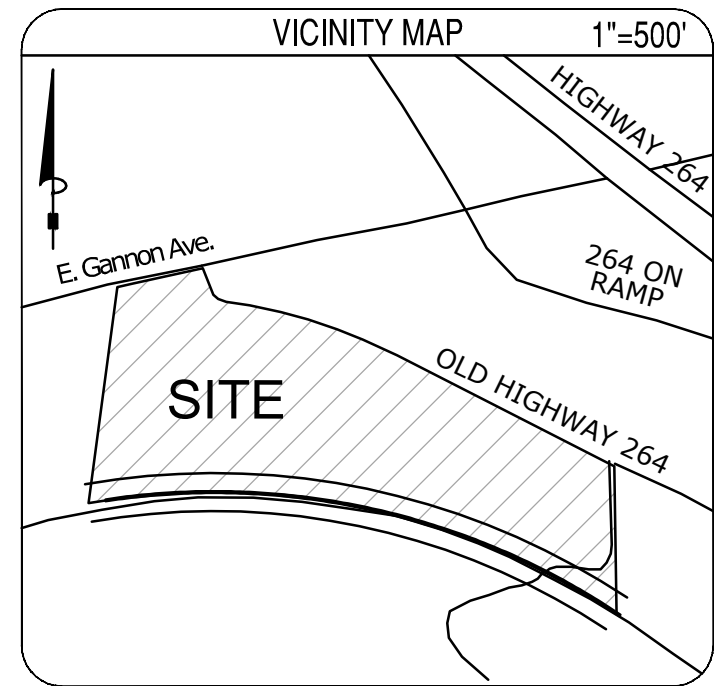
FINAL ZONING AND SITE IMPROVEMENT INSPECTION SHALL BE REQUIRED TO VERIFY SITE PLAN COMPLIANCE BE DONE BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED BY WAKE COUNTY BUILDING INSPECTIONS

DETERIORATED OR DEAD SCREENING SHALL BE REPAIRED OR REPLACED WITHIN SIX MONTHS

NO PERMANENT CONSTRUCTION CAN OCCUR WITHIN BUFFER YARDS

SEPTIC TANKS, SEPTIC DRAIN LINES ARE PROHIBITED IN REQUIRED BUFFERYARDS

STORMWATER RETENTION AND DETENTION FACILITIES, STORAGE TANKS FOR ANY PURPOSE, UTILITY SUBSTATIONS, AND 3 BUILDINGS HOUSING UTILITY SUBSTATIONS AND BUILDINGS HOUSING UTILITY COMMODITIES OR EQUIPMENT ARE ALSO PROHIBITED IN REQUIRED BUFFERYARDS.



IMPERVIOUS SUMMARY TABLE				
ON-SITE AREA = 164,059 SF (3.766 AC)				
TOTAL DRAINAGE AREA = 242,500 SF (5.567 AC)				
BUILDINGS	21,147 SF	0.49 ACRE(S)	12.91 % OF AREA	
PAVEMENT	81,500 SF	1.87 ACRE(S)	49.68 % OF AREA	
SIDEWALK	7,100 SF	0.16 ACRE(S)	4.33 % OF AREA	
ON-SITE IMPERVIOUS AREA	109,774 SF	2.52 ACRE(S)	66.91 % OF AREA	
OFF-SITE IMPERVIOUS AREA	10,051 SF	0.23 ACRE(S)	6.13 % OF AREA	
GREEN/OPEN SPACE	54,285 SF	1.25 ACRE(S)	33.09 % OF AREA	
EXISTING IMPERVIOUS AREA	0 SF	0 ACRE(S)	0.0 % OF AREA	
INCREASE IN IMPERVIOUS AREA	119,825 SF	2.75 ACRE(S)	73.04 % OF AREA	

DEVELOPMENT DATA	
DEVELOPMENT NAME:	TRACTOR SUPPLY
STREET ADDRESS:	OLD US HIGHWAY 264 ZEBULON, NC
OWNER:	SEA MOUNTAIN VENTURES II, LLC 1100 E. MOREHEAD STREET CHARLOTTE, NC 28204
PROPERTY IDENTIFICATION #(PIN):	2705-97-3150 (ORDINANCE 2022-36)
PROPERTY #:	0504606
DEED BOOK/PAGE:	019275 / 01679
EXISTING ZONING:	HC- HEAVY COMMERCIAL (ORDINANCE 2022-36)
FUTURE LAND USE MAP:	GC-GENERAL COMMERCIAL
LATITUDE & LONGITUDE	N35.828782, W-78.293752
TOTAL SITE ACRES:	164,059 SF (3.77 AC) PROPOSED TRACTOR SUPPLY
WATER SERVICE:	PUBLIC - CITY OF RALEIGH
SANITARY SEWER SERVICE:	PUBLIC - CITY OF RALEIGH
INSIDE TOWN LIMITS:	NO - ANNEXATION REQUIRED
EXISTING USE:	VACANT
PROPOSED BUILDING USE:	21,147 SF TRACTOR SUPPLY RETAIL STORE
FLOOD ZONE:	NONE (FEMA FIRM 3720270500K, 7/19/22)
HEAVY COMMERCIAL (HC) ZONING REQUIREMENTS	
MIN LOT AREA:	6,000 SF
MIN LOT WIDTH:	50 FT
MAX LOT COVERAGE	80%
MIN OPEN SPACE:	3% OF SITE (4,922SF) 5,000 SF OPEN SPACE PROVIDED ALONG US 264
SIDE SETBACK(STREET):	30 FT
SIDE SETBACK(INTERIOR):	0, 5FT IF PROVIDED
REAR SETBACK:	0 IF ABUTTED BY AN ALLEY; OTHERWISE 25FT 50FT; MAY INCREASE BY 2FT FOR EACH ADDITIONAL FOOT OF SETBACK UP TO 100FT IN HEIGHT
MAX BUILDING HEIGHT	25FT
MIN SPACING BETWEEN PRINCIPLE BUILDINGS:	25FT
PARKING REQUIREMENTS:	
RETAIL- 1 SPACE PER 200 SF	
21,147 SF / 200=106 SPACES	
79 SPACES REQUESTED (PARKING STUDY)	
BIKE PARKING - 1 SPACE PER 20 PARKING SPACES	
4 BIKE PARKING SPACES PROVIDED	
TOTAL PROVIDED:	79
PARKING SPACE DIMENSIONS	10' X 19' MIN 8.5' X 18' COMPACT (30% MAX)
MIN DRIVE AISLE	20 FT ONE-WAY, 24 FT TWO-WAY
ACCESIBLE SPACES PROVIDED:	4
TREE RETENTION	5% OF SITE REQUIRED (8,203SF) 19,000SF OF TREE RETENTION PROPOSED
LANDSCAPE BUFFERS	10FT TYPE A BUFFER (ADJACENT HC) 15FT STREETSCAPE BUFFER ALONG OLD US 264



PUBLIC IMPROVEMENT QUANTITY TABLE	
	SEWER MAIN
LENGTH OF PIPE (L.F.)	2,330 L.F.
STUB COUNT	1 SERVICE STUB 1 TIE-IN TO EXISTING MAIN
MANHOLES	9


REZONING - ORDINANCE 2022-36

ORDINANCE 2022-36  
AMENDMENT TO ZONING MAP FOR  
0 Old US 264 (Pin # 2705973068)

The proposed Zoning Map Amendment for approximately 9.8 acres located at 0 Old US 264 with associated Wake County Pin # 2705973068 would be rezoned from R-2 Residential to Heavy Commercial (HC) in accordance with Section 2.2.24 of the Town of Zebulon Unified Development Ordinance and the attached map.

Adopted this the 4<sup>th</sup> day of April 2022

  
Glenn L. York - Mayor

  
Lisa M. Markland, CMC - Town Clerk

CURRENT PROPERTY OWNERS  
Sea Mountain Ventures II, LLC  
1100 E. Morehead Street  
Charlotte, NC 28204

DEVELOPER  
Primax Properties, LLC  
Attn. Adam Sellner  
1100 E. Morehead Street  
Charlotte, NC 28204  
704-954-7224  
asellner@primaxproperties.com

CIVIL ENGINEER  
Bowman North Carolina, Ltd.  
4006 Barrett Drive, Suite 104  
Raleigh, NC 27609  
(919) 553-6570  
mlowerd@bowman.com  
FIRM# F-1445

PRECONSTRUCTION NOTE  
A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR. CONTACT JASON AT 919-790-5640.

PUBLIC  
Sewer Collection/Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
Public Utilities Department Permit # S-6172

Authorization to Construct See digital signature

ATTENTION CONTRACTORS

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting** the **Public Utilities Department** at (919) 996-4540 at least **twenty four hours** prior to beginning any of their construction.

**Failure** to notify both **City Departments** in advance of beginning construction, will result in the issuance of **monetary fines**, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

**Failure** to call for **Inspection, Install a Downstream Plug**, have **Permitted Plans** on the **Jobsite**, or any other **Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.

EROSION CONTROL, STORMWATER  
AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☒ SEC-091104-2022

STORMWATER MGMT. ☒ SWF-091106-2022

FLOOD STUDY ☐ S-\_\_\_\_\_

DATE: JANUARY 22, 2024



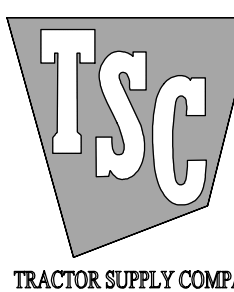
ENVIRONMENTAL CONSULTANT SIGNATURE



Index of Drawings	
Sheet Number	Sheet Title
C1.0	COVER SHEET
C1.1	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
C2.0	DEMOLITION PLAN
C2.1	EROSION CONTROL PLAN
C2.2	EROSION CONTROL PLAN
C2.3	EROSION CONTROL PLAN
C2.4	EROSION CONTROL PLAN - FINAL
C2.5	EROSION CONTROL NOTES
C2.6	NC CONSTRUCTION GENERAL PERMIT (NCG01) NOTES
C3.0	SITE PLAN
C4.0	GRADING & DRAINAGE PLAN
C4.1	ROADWAY PLAN
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C6.6A	UTILITY DETAILS
C6.6B	UTILITY DETAILS
C6.7	STORMWATER MANAGEMENT DETAILS
C6.8	STORMWATER MANAGEMENT DETAILS
C6.9	STORMWATER MANAGEMENT DETAILS
C7.0	LANDSCAPE PLAN
1 OF 14	CONCEPTUAL ELEVATION
2 OF 14	FRONT ELEVATION
3 OF 14	FRONT ELEVATION
4 OF 14	FRONT-RIGHT ELEVATION
5 OF 14	GREENHOUSE CONNECTION
6 OF 14	GREENHOUSE CONNECTION
7 OF 14	REAR ELEVATION - RIGHT SIDE
8 OF 14	LOADING AREA
9 OF 14	REAR ELEVATION - LEFT SIDE
10 OF 14	REAR ELEVATION - LEFT SIDE
11 OF 14	LEFT ELEVATION
12 OF 14	LEFT ELEVATION
13 OF 14	FRONT-LEFT ELEVATION
14 OF 14	FRONT-LEFT ELEVATION
1 OF 1	PARKING LOT LIGHTING LAYOUT

**Bowman**

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4006 BARRETT DR  
Suite 104  
RALEIGH, NC 27609  
Phone: (919) 553-6570  
bowman.com  
Bowman North Carolina Ltd.



COVER SHEET  
Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County



PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	H: 1" = 40'	V: 1" = XXX'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	
SHEET	C1.0	



## LEGEND NOTES

1. THIS IS A STANDARD SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PROJECT.
2. ADDITIONAL LEGENDS AND NOTES MAY BE FOUND ON OTHER SHEETS ASSOCIATED WITH THIS PLAN. THESE LEGENDS AND NOTES ARE TO BE REFERENCED IN ADDITION TO THIS STANDARD SHEET.

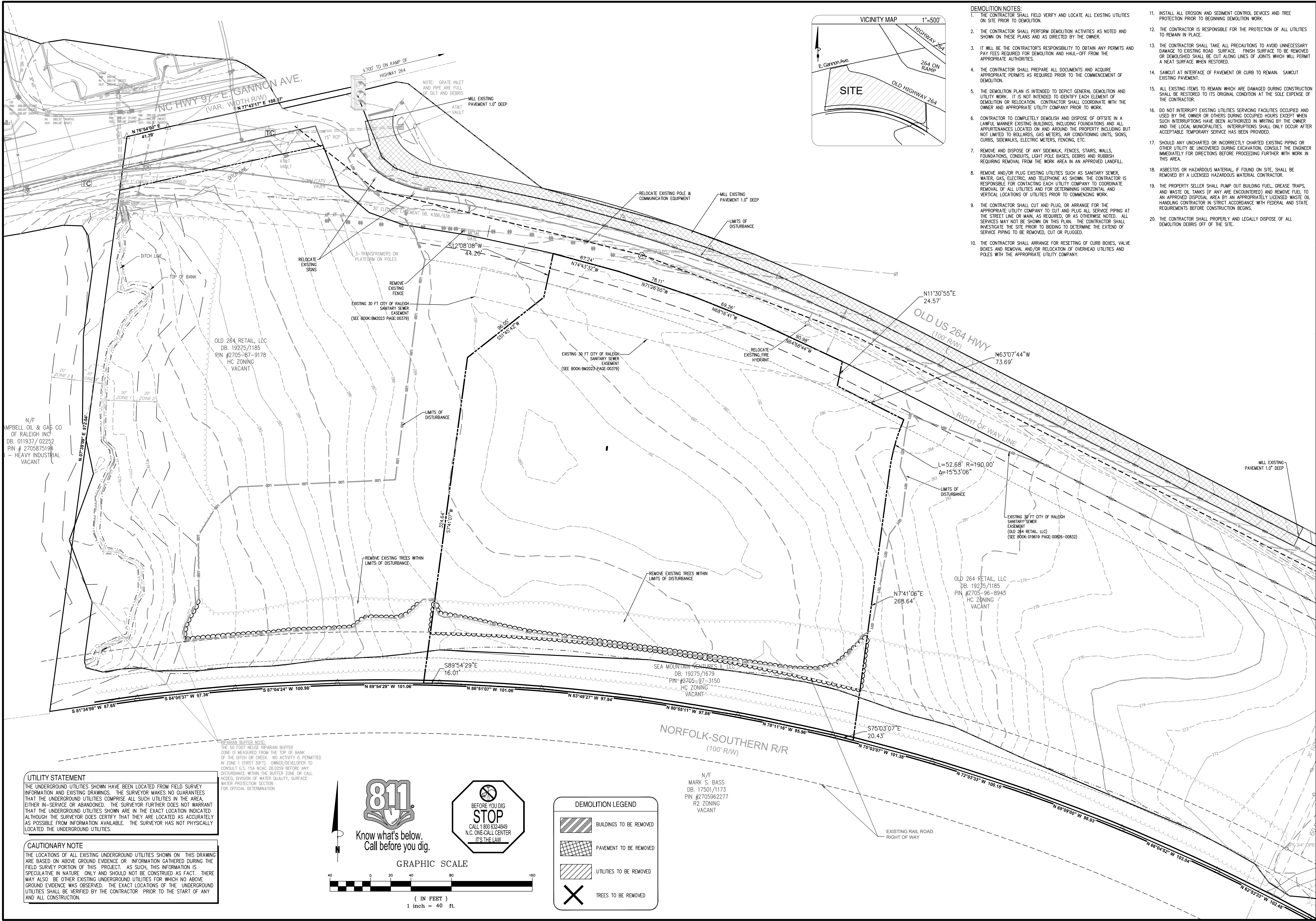
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NOTE TO CONTRACTOR:  
THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE EROSION CONTROL INSPECTOR OF THE LOCATION OF ANY OFF-SITE BORROW SOURCE OR OFF-SITE WASTE MATERIAL DISPOSAL SITE. OFF-SITE DISTURBANCES COUNT TOWARDS THE OVERALL PROJECT DISTURBED AREA AND MUST BE COVERED BY THE PERMIT FOR THIS PROJECT AND/OR THE PERMIT FROM ANOTHER ACTIVE WAKE COUNTY OR NCDC PERMITTED SITE THAT IS APPROPRIATE FOR THE INTENDED USE (I.E. APPLICABLE MINING REQUIREMENTS). NO OFF-SITE ACTIVITIES SHALL OCCUR UNTIL THE PERMIT FOR THIS PROJECT HAS BEEN MODIFIED TO INCLUDE THE AFFECTED AREAS OR IT HAS BEEN VERIFIED WITH THE EROSION CONTROL INSPECTOR THAT THE OFF-SITE AREAS ARE COVERED UNDER ACTIVE APPLICABLE WAKE COUNTY OR NCDC PERMITS.

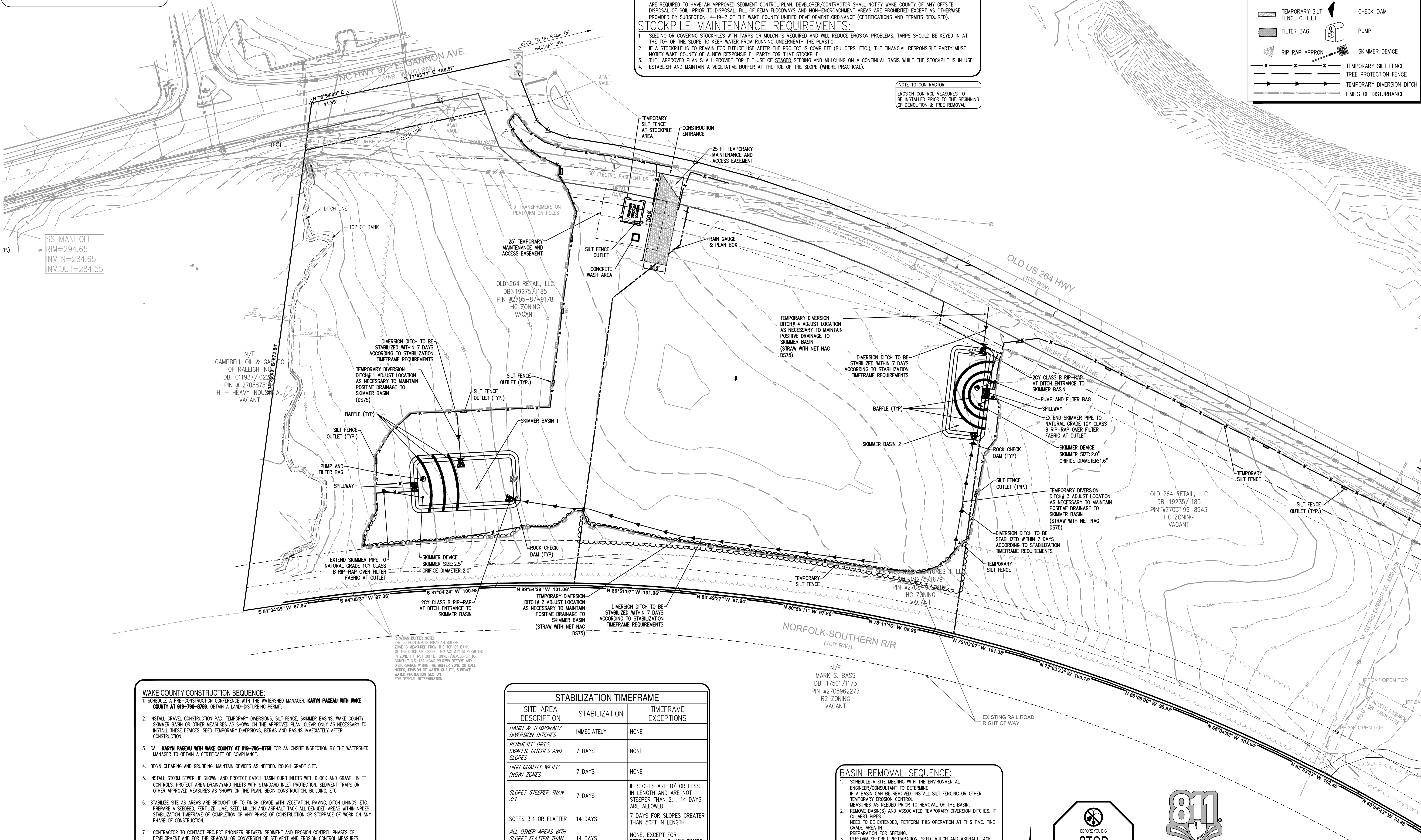
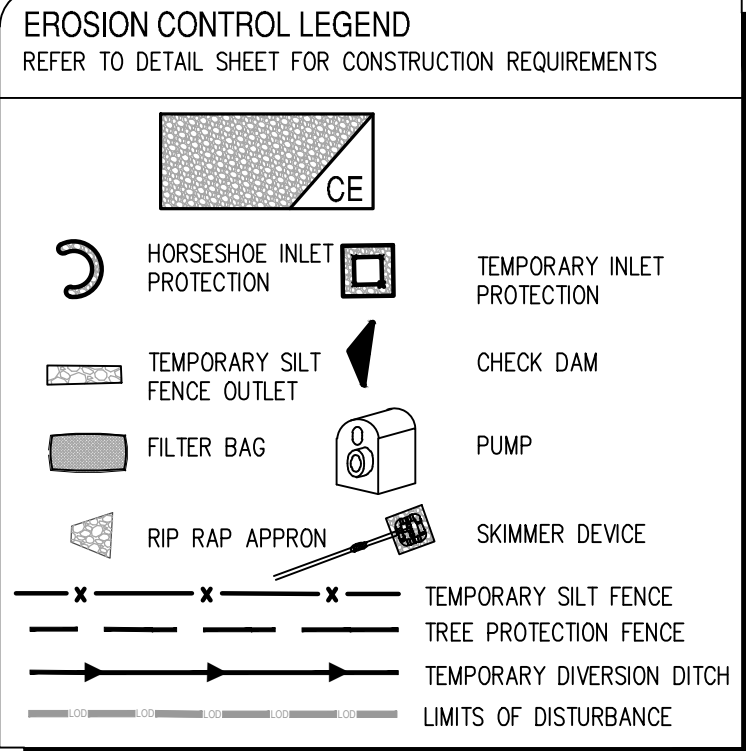
CONSTRUCTION NOTE  
ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS

STOCKPILE DESIGN CRITERIA:  
1. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).  
2. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.  
3. STOCKPILE HEIGHT SHALL NOT EXCEED 35-FEET.  
4. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.  
5. APPROVED BMP'S SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.  
6. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.  
7. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.  
8. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

STOCKPILE MAINTENANCE REQUIREMENTS:  
1. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.  
2. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.  
3. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

NOTE TO CONTRACTOR:  
EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

EROSION CONTROL NOTES  
- REFER TO GENERAL NOTES SHEET FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.  
- MEASURES TO BE USED IN THE DEVELOPMENT OF THIS SITE.  
- REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER FOR THE DEVELOPMENT.



WAKE COUNTY CONSTRUCTION SEQUENCE:  
1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8768. OBTAIN A LAND-DISTURBING PERMIT.  
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BOWNS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.  
3. CALL KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8768 FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.  
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.  
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.  
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENuded AREAS WITHIN NPDES STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY PHASE OF CONSTRUCTION.  
7. CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION CONTROL PHASES OF DEVELOPMENT AND FOR THE REMOVAL OR CONVERSION OF SEDIMENT AND EROSION CONTROL MEASURES.  
8. WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.  
9. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8768 FOR AN INSPECTION BY THE WATERSHED MANAGER.  
10. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISPATORS, SHOULD NOW BE INSTALLED.  
11. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8768. OBTAIN A CERTIFICATE OF COMPLETION.

STABILIZATION TIMEFRAME		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
BASIN & TEMPORARY DIVERSION DITCHES	IMMEDIATELY	NONE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50FT IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES
GROUND COVER REQUIREMENTS:		
THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.		

BASIN REMOVAL SEQUENCE:  
1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.  
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.  
3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.  
4. INSTALL VELOCITY DISPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.  
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.  
NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.



GRAPHIC SCALE  
( IN FEET )  
1 inch = 50 ft.

**Bowman**

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Suite 104  
RALEIGH, NC 27609  
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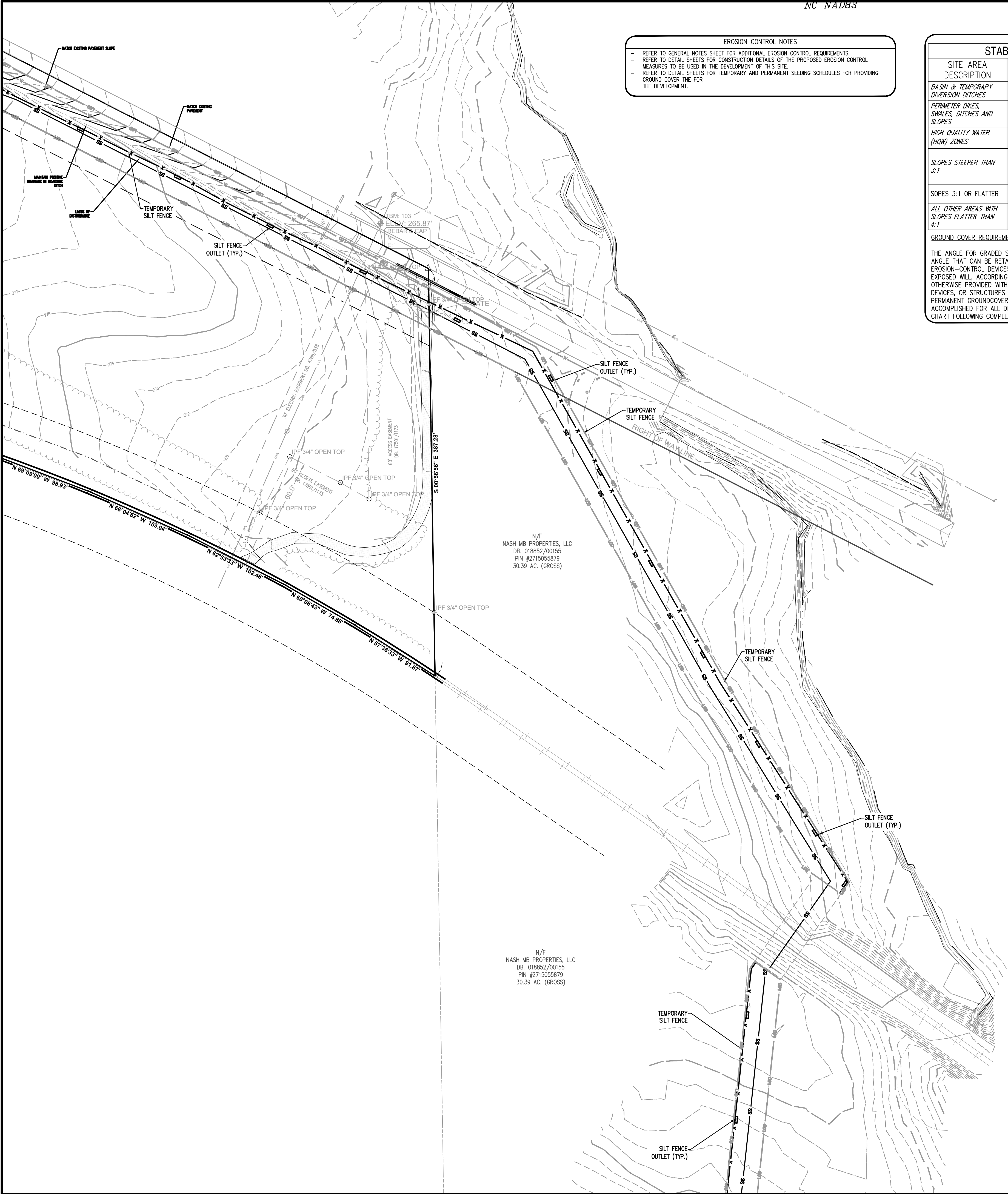
EROSION CONTROL PLAN  
Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County



PLAN STATUS		
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MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	H: 1" = 40'	V: 1" = 40'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET C2.1





EROSION CONTROL NOTES

- REFER TO GENERAL NOTES SHEET FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.
- REFER TO DETAIL SHEETS FOR CONSTRUCTION DETAILS OF THE PROPOSED EROSION CONTROL MEASURES TO BE USED IN THE DEVELOPMENT OF THIS SITE.
- REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER THE FOR THE DEVELOPMENT.

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7. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
8. OFF-SITE SPILL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPILL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

#### STOCKPILE MAINTENANCE REQUIREMENTS:

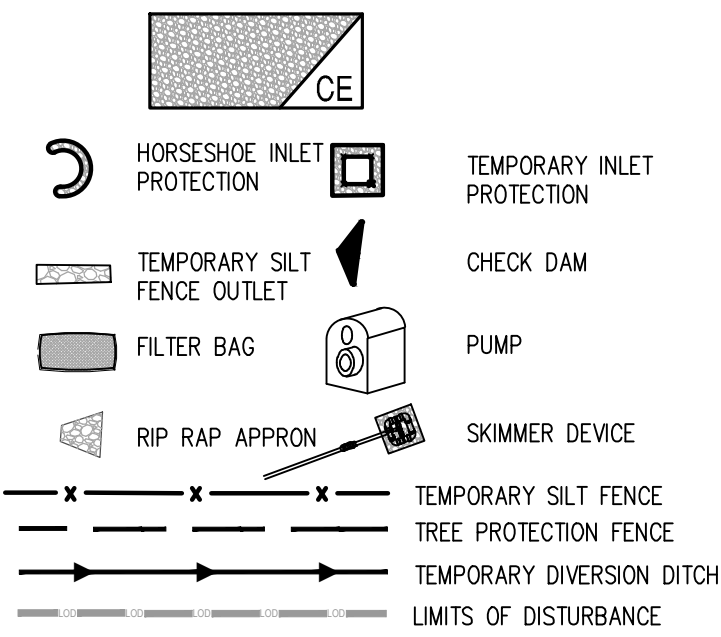
1. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
2. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
3. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
4. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

#### WAKE COUNTY CONSTRUCTION SEQUENCE:

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, **KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769**. OBTAIN A LAND-DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SUMMER BASINS, WAKE COUNTY SUMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL **KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769** FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENuded AREAS WITHIN NINEE'S STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY PHASE OF CONSTRUCTION.
7. CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION CONTROL PHASES OF DEVELOPMENT AND FOR THE REMOVAL OR CONVERSION OF SEDIMENT AND EROSION CONTROL MEASURES.
8. WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.
9. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL **KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769** FOR AN INSPECTION BY THE WATERSHED MANAGER.
10. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
11. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER, **KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769**. OBTAIN A CERTIFICATE OF COMPLETION.

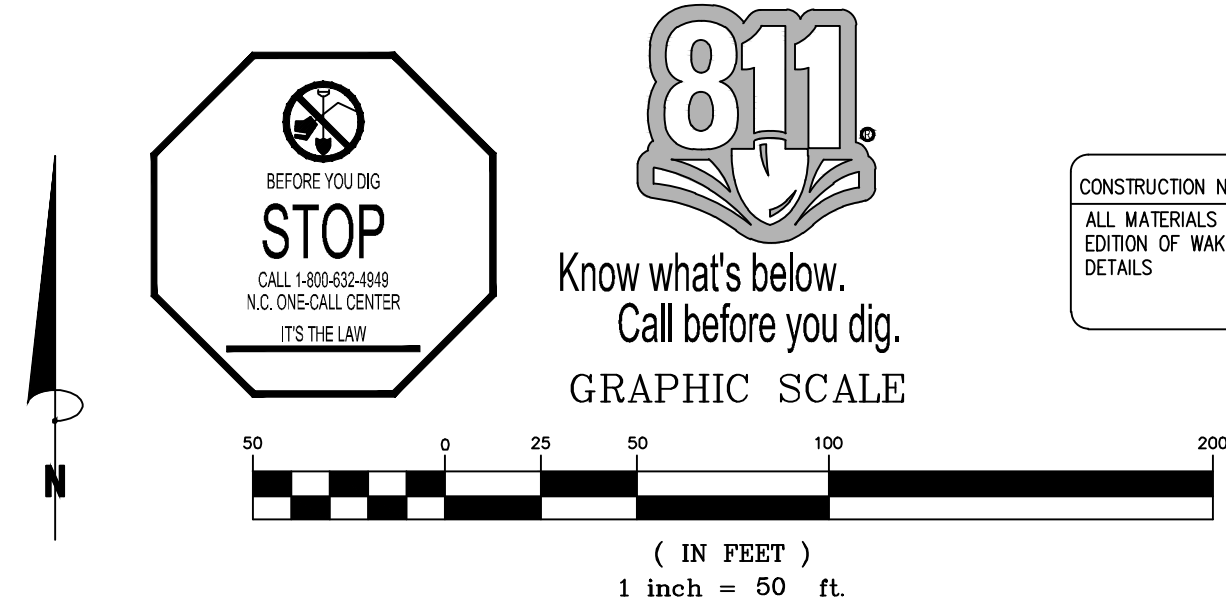
#### EROSION CONTROL LEGEND

REFER TO DETAIL SHEET FOR CONSTRUCTION REQUIREMENTS



#### BASIN REMOVAL SEQUENCE:

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
  2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
  3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
  4. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
  5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.
- NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.



CONSTRUCTION NOTE

ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS

**Bowman**

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4006 BARRETT DR  
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Bowman North Carolina Ltd.



EROSION CONTROL PLAN  
Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County



PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	H: 1" = 40'	V: 1" = 40'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET C2.2



EROSION CONTROL NOTES

- REFER TO GENERAL NOTES SHEET FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.
- REFER TO DETAIL SHEETS FOR CONSTRUCTION DETAILS OF THE PROPOSED EROSION CONTROL MEASURES TO BE USED IN THE DEVELOPMENT OF THIS SITE.
- REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER THE FOR THE DEVELOPMENT.

STABILIZATION TIMEFRAME		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
BASIN & TEMPORARY DIVERSION DITCHES	IMMEDIATELY	NONE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN SOFT IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES

GROUND COVER REQUIREMENTS:

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

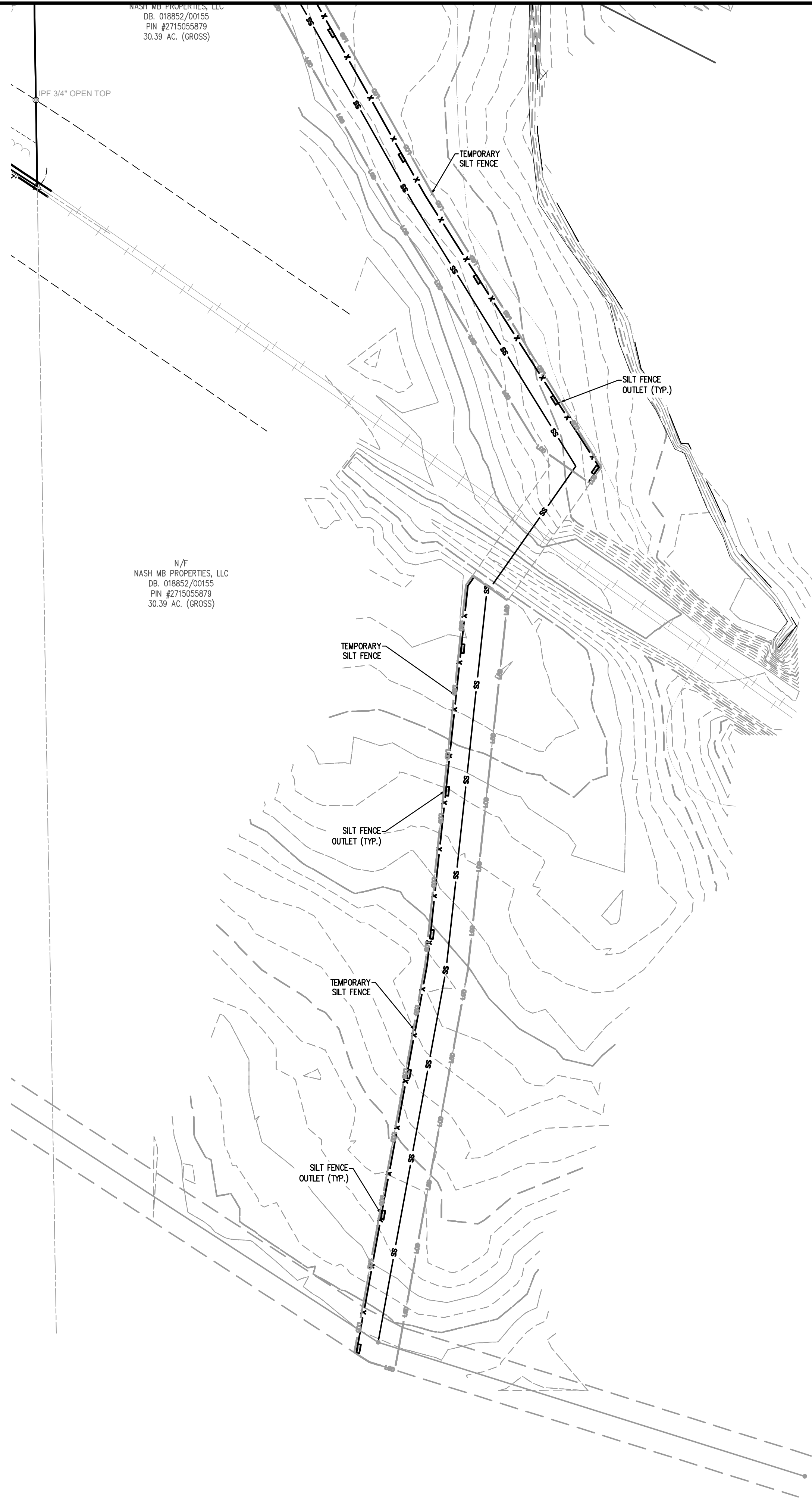
NOTE TO CONTRACTOR:

EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL.

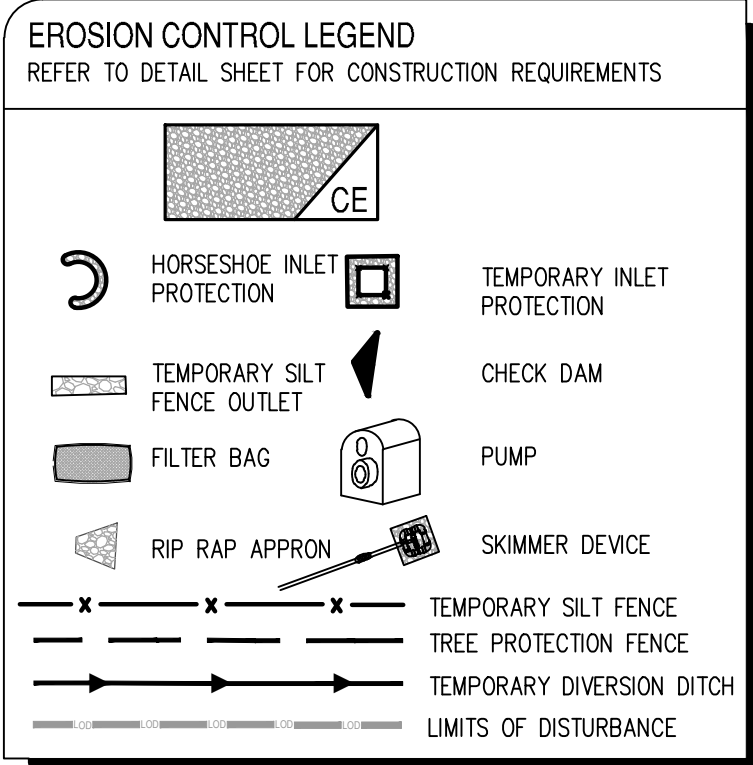
- WAKE COUNTY CONSTRUCTION SEQUENCE:
- SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, **KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8788**. OBTAIN A LAND-DISTURBING PERMIT.
  - INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
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  - BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
  - INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
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NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE EROSION CONTROL INSPECTOR OF THE LOCATION OF ANY OFF-SITE BORROW SOURCE OR OFF-SITE WASTE MATERIAL DISPOSAL SITE. OFF-SITE DISTURBANCES COUNT TOWARDS THE OVERALL PROJECT DISTURBED AREA AND MUST BE COVERED BY THE PERMIT FOR THIS PROJECT AND/OR THE PERMIT FROM ANOTHER ACTIVE WAKE COUNTY OR NCDED PERMITTED SITE THAT IS APPROPRIATE FOR THE INTENDED USE (I.E. APPLICABLE MINING REQUIREMENTS). NO OFF-SITE ACTIVITIES SHALL OCCUR UNTIL THE PERMIT FOR THIS PROJECT HAS BEEN MODIFIED TO INCLUDE THE AFFECTED AREAS OR IT HAS BEEN VERIFIED WITH THE EROSION CONTROL INSPECTOR THAT THE OFF-SITE AREAS ARE COVERED UNDER ACTIVE APPLICABLE WAKE COUNTY OR NCDED PERMITS.



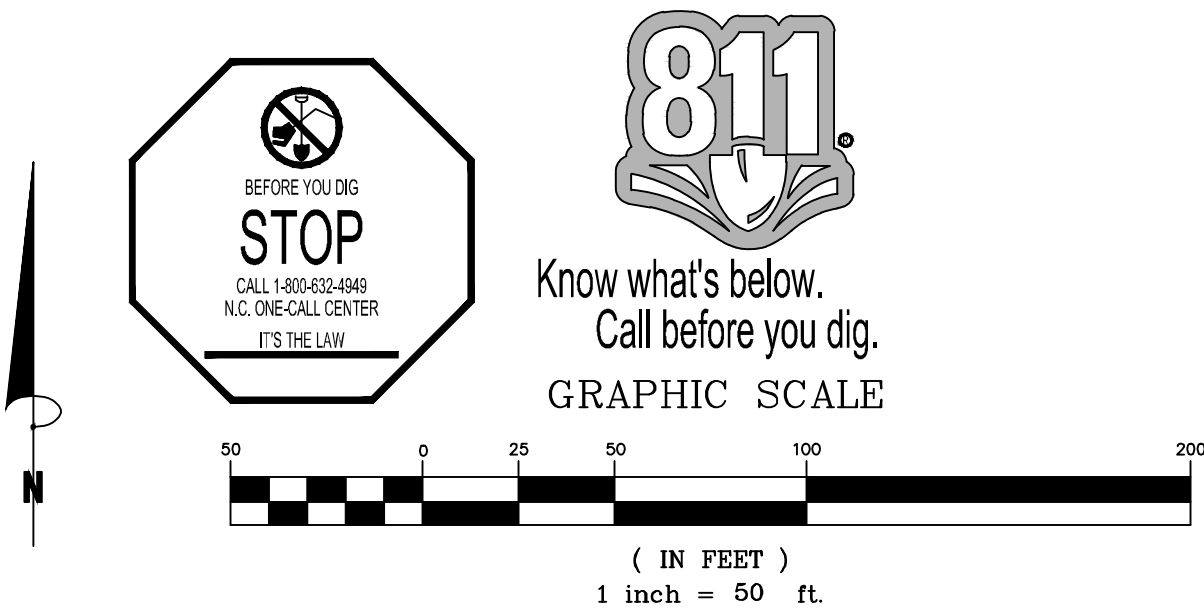
- STOCKPILE DESIGN CRITERIA:
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  - STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
  - STOCKPILE HEIGHT SHALL NOT EXCEED 35-FEET.
  - STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
  - APPROVED BMP'S SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
  - STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
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  - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).



- BASIN REMOVAL SEQUENCE:
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  - REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
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CONSTRUCTION NOTE

ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS



# Bowman

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Bowman North Carolina Ltd.

## TSC

TRACTOR SUPPLY COMPANY

EROSION CONTROL PLAN

Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County

PLAN STATUS

11/30/23	SEWER CROSSING AT RAILROAD
1/10/24	PER WAKE CO REVIEW
3/26/24	PER NCDDOT REVIEW
5/28/24	PER CITY OF RALEIGH REVIEW

MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = 40'	V: 1" = 40'

JOB No. 220127-01-001

DATE May 28, 2024

FILE No. 220127-D-CP-001

SHEET C2.3



NOTE TO CONTRACTOR:  
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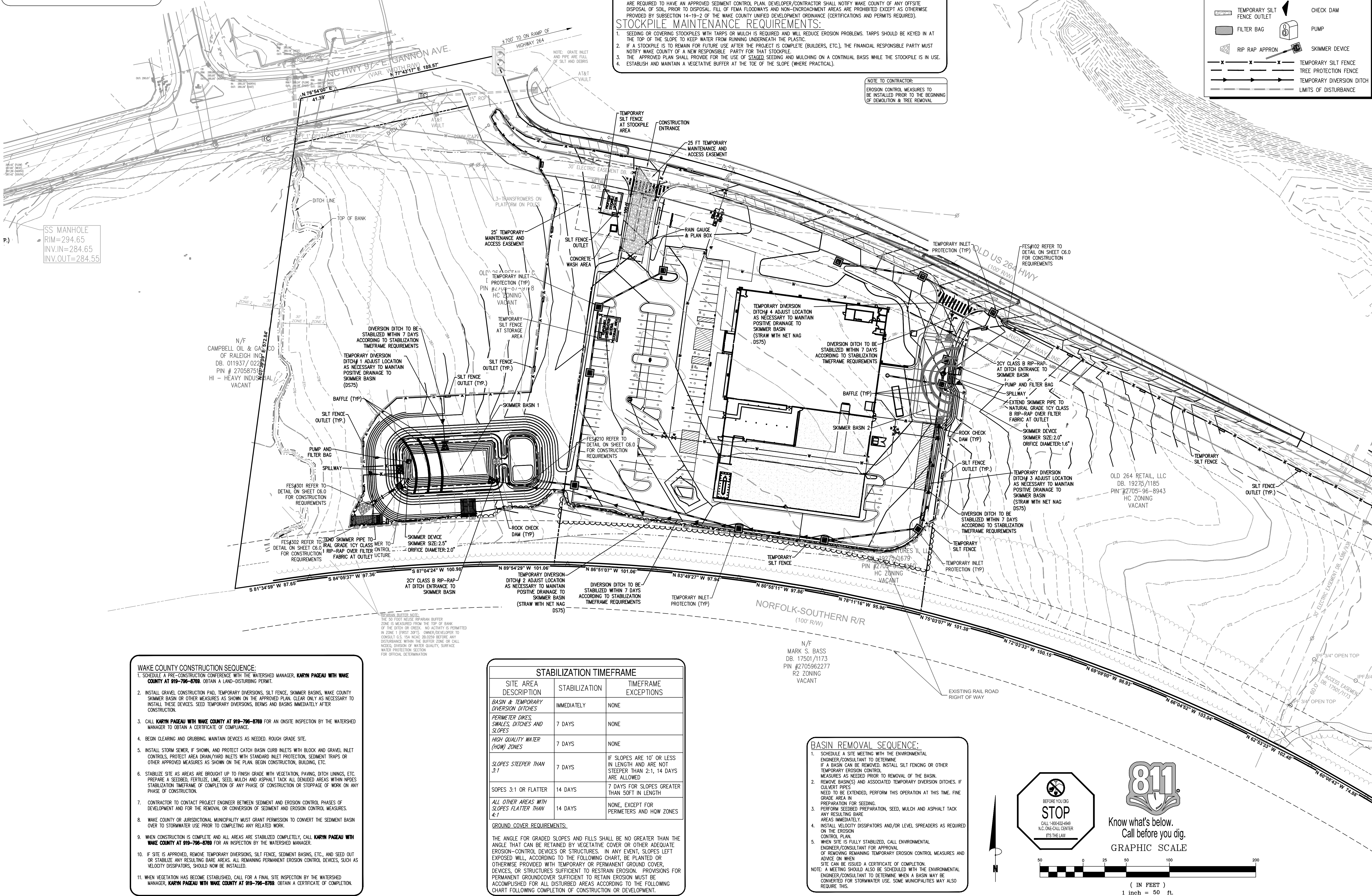
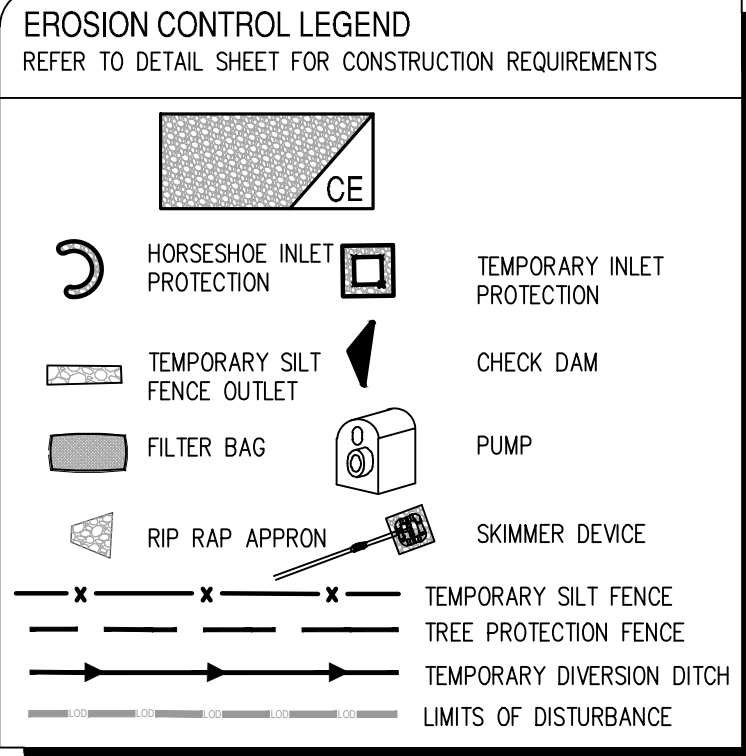
CONSTRUCTION NOTE  
ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS

STOCKPILE DESIGN CRITERIA:  
1. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).  
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STOCKPILE MAINTENANCE REQUIREMENTS:  
1. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.  
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NOTE TO CONTRACTOR:  
EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

EROSION CONTROL NOTES  
- REFER TO GENERAL NOTES SHEET FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.  
- MEASURES TO BE USED IN THE DEVELOPMENT OF THIS SITE.  
- REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER FOR THE DEVELOPMENT.



WAKE COUNTY CONSTRUCTION SEQUENCE:  
1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8768. OBTAIN A LAND-DISTURBING PERMIT.  
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO CONSTRUCTION. SEED TEMPORARY DIVERSIONS, BOWNS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.  
3. CALL KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8768 FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.  
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.  
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.  
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENuded AREAS WITHIN NPDES STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY PHASE OF CONSTRUCTION.  
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STABILIZATION TIMEFRAME		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
BASIN & TEMPORARY DIVERSION DITCHES	IMMEDIATELY	NONE
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FT IN LENGTH
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GROUND COVER REQUIREMENTS:		
THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.		

BASIN REMOVAL SEQUENCE:  
1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.  
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.  
3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.  
4. INSTALL VELOCITY DISPENSERS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.  
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVISE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.  
NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.



GRAPHIC SCALE  
1 inch = 50 ft.

**Bowman**

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4006 BARRETT DR  
Suite 104  
RALEIGH, NC 27609  
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bowman.com  
Bowman North Carolina Ltd.

**TSC**

TRACTOR SUPPLY COMPANY

**Tractor Supply**

Old US Highway 264  
Zebulon, NC Wake County

EROSION CONTROL PLAN - FINAL

PLAN STATUS

11/30/23	SEWER CROSSING AT RAILROAD
1/10/24	PER WAKE CO REVIEW
3/26/24	PER NCDOT REVIEW
5/28/24	PER CITY OF RALEIGH REVIEW

MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	1" = 40'	1" = 40'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET C2.4

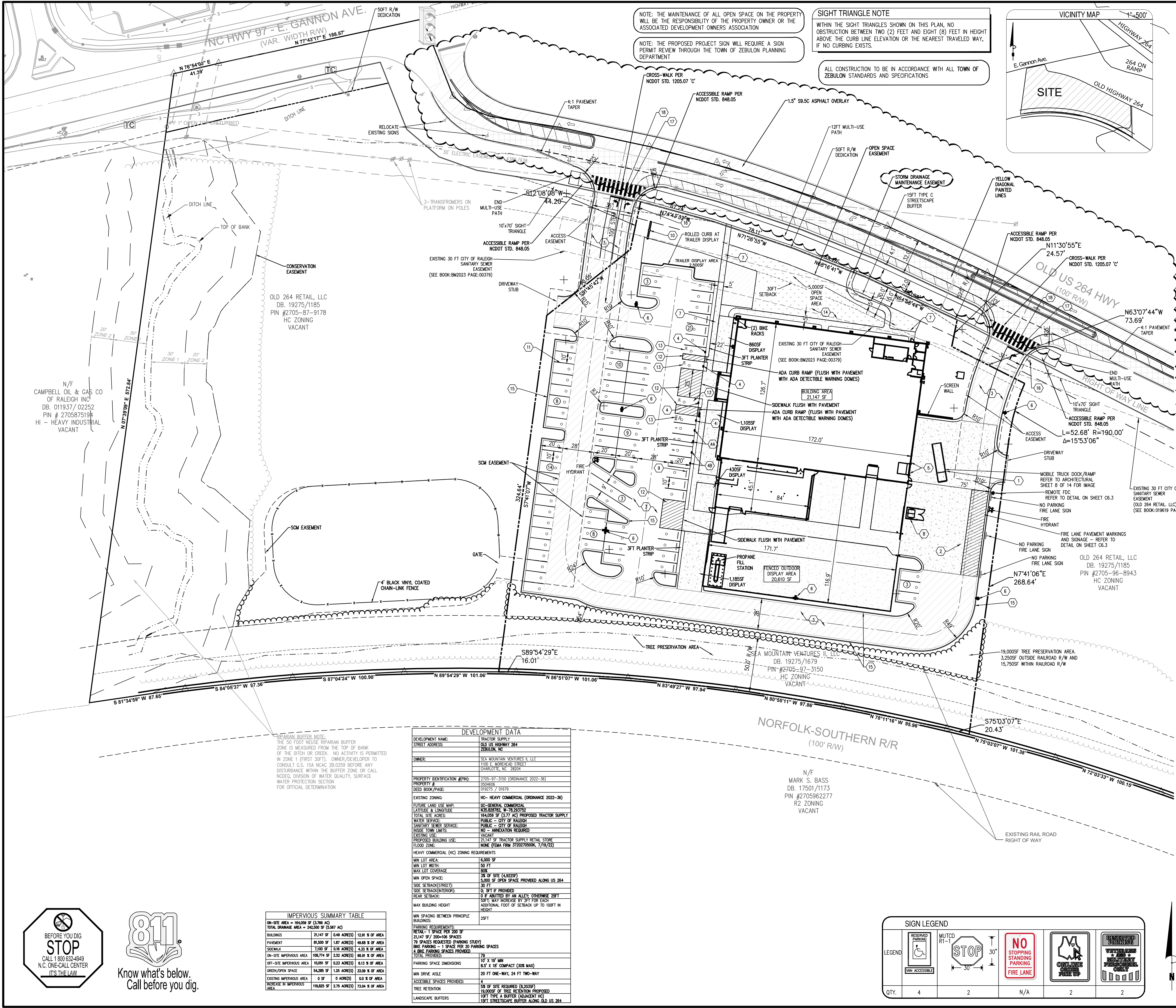












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bowman.com

**TSC**  
TRACTOR SUPPLY COMPANY

**SITE PLAN**

**Tractor Supply**  
Old US Highway 264  
Zebulon, NC Wake County

**PLAN STATUS**

DATE	STATUS
11/30/23	SEWER CROSSING AT RAILROAD
1/10/24	PER WAKE CO REVIEW
3/26/24	PER NCDOT REVIEW
5/28/24	PER CITY OF RALEIGH REVIEW

MEL DESIGN  
SCALE: 1" = 40'  
V: 1" = XXX'

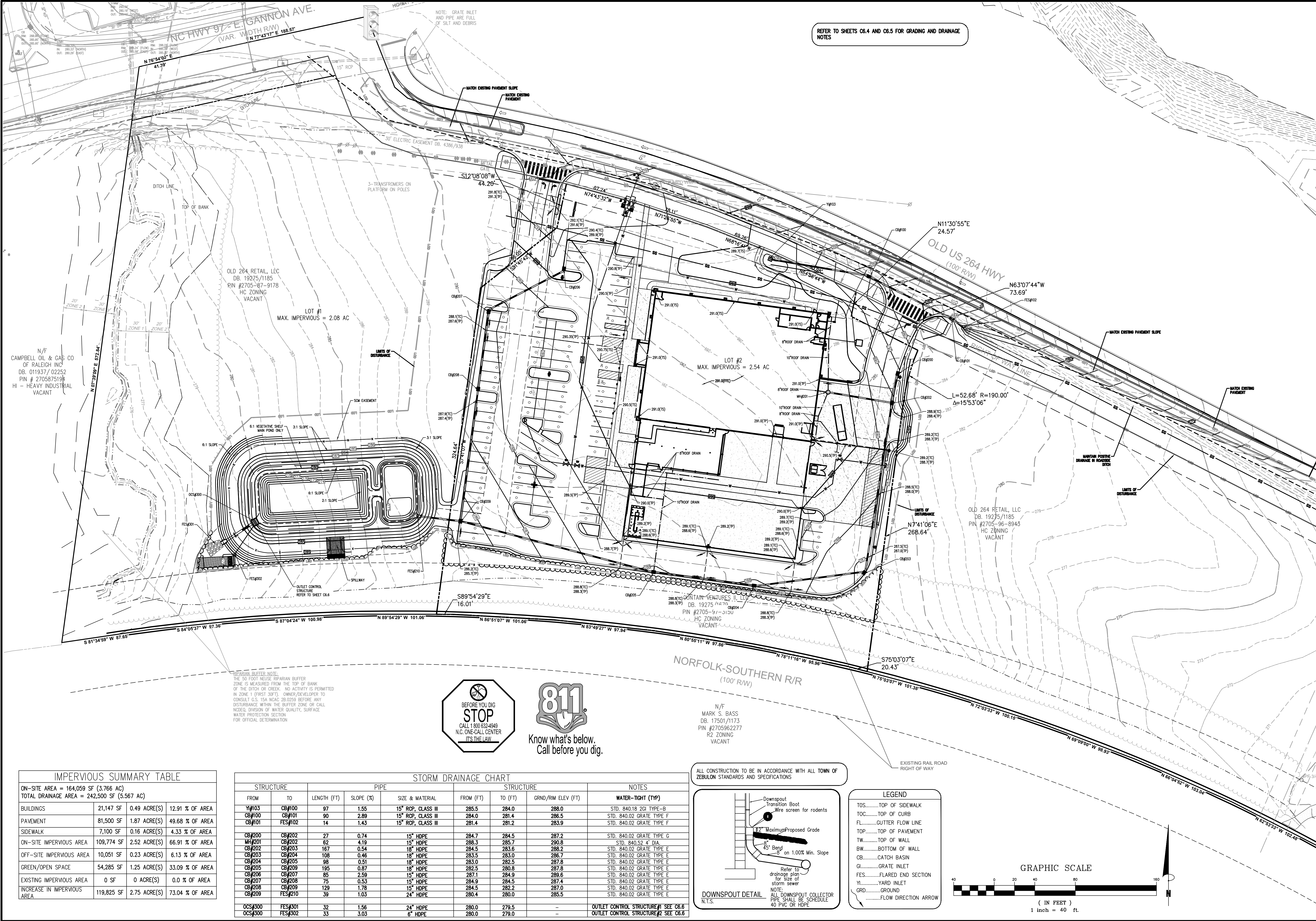
MEL DRAWN  
DATE: May 28, 2024

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JOB No. 220127-01-001  
FILE No. 220127-D-CP-001

SHOOT

C3.0

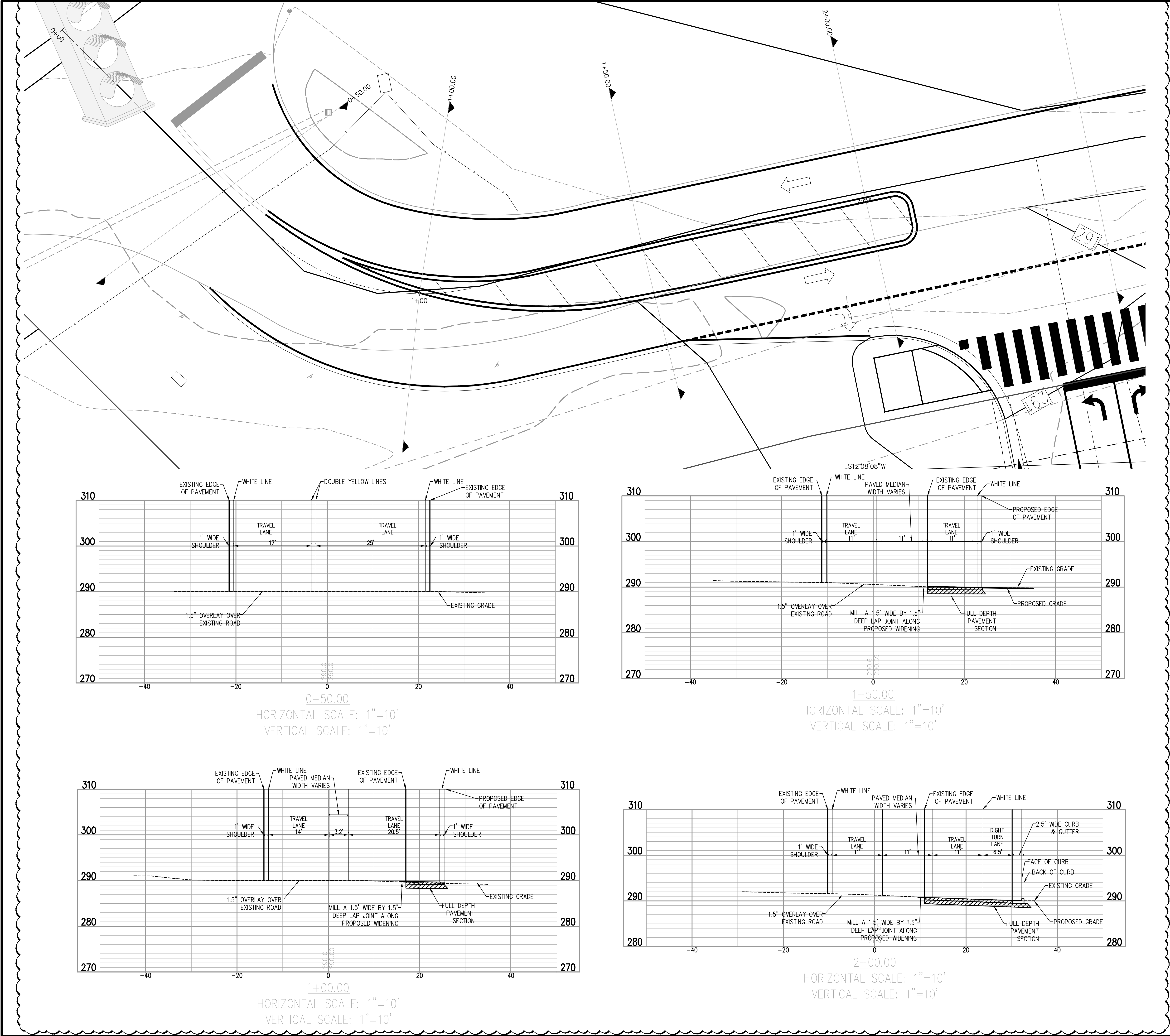












Cad file name: V:\220127 - Primox Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\Construction Documents\220127-01-001-RWAY.dwg

# Bowman

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bowman.com  
Bowman North Carolina Ltd.

## TSC

TRACTOR SUPPLY COMPANY

ROADWAY CROSS SECTIONS

Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County

PLAN STATUS

11/30/23	SEWER CROSSING AT RAILROAD
1/10/24	PER WAKE CO REVIEW
3/26/24	PER NCDOT REVIEW
5/28/24	PER CITY OF RALEIGH REVIEW

MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'

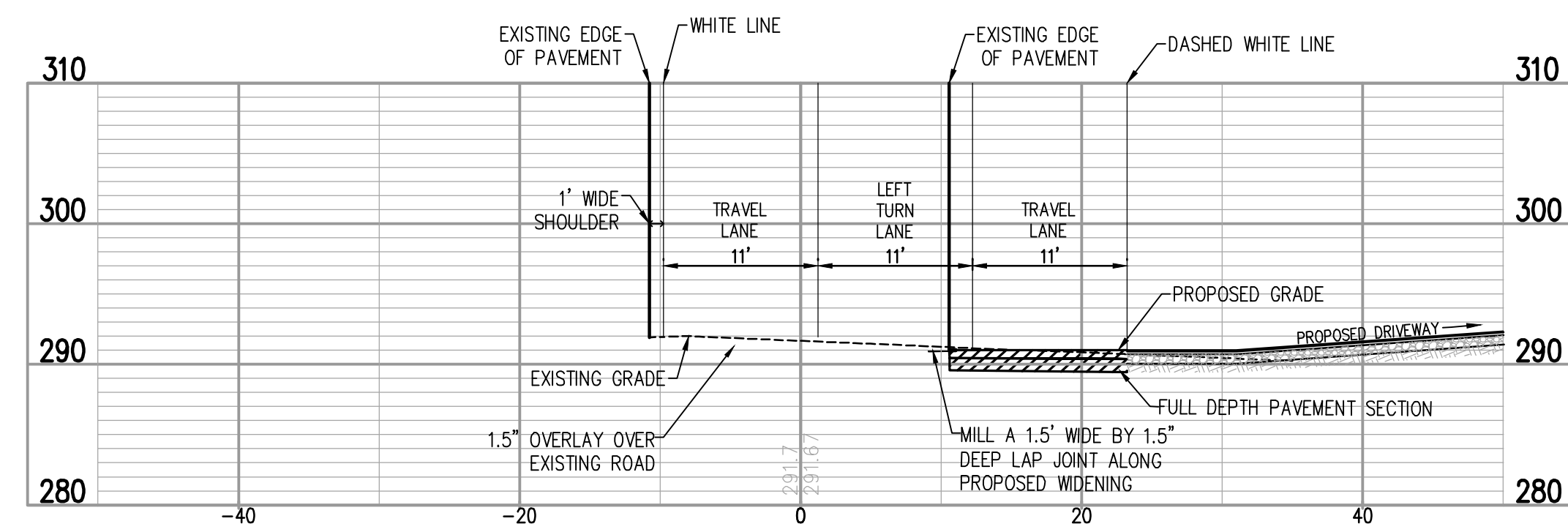
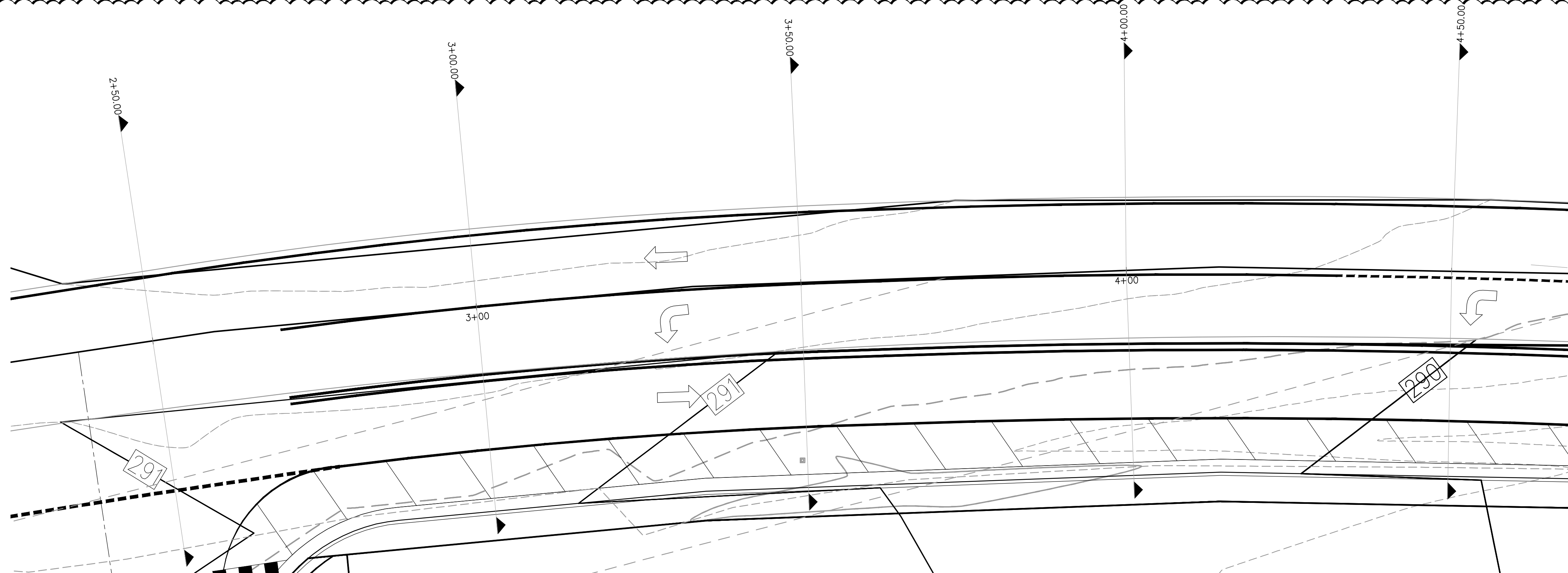
JOB No. 220127-01-001  
DATE May 28, 2024  
FILE No. 220127-D-CP-001

SHEET C4.2

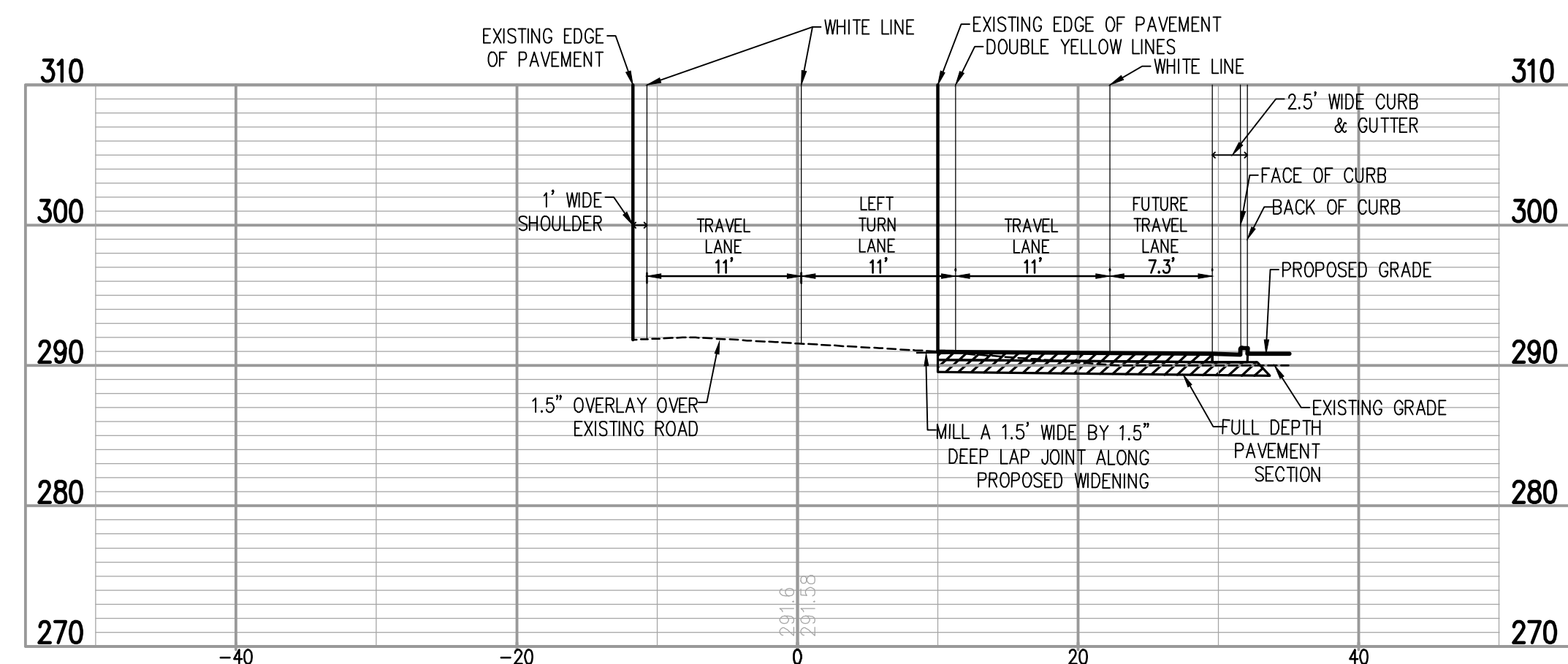
GRAPHIC SCALE

( IN FEET )  
1 inch = 0 ft.

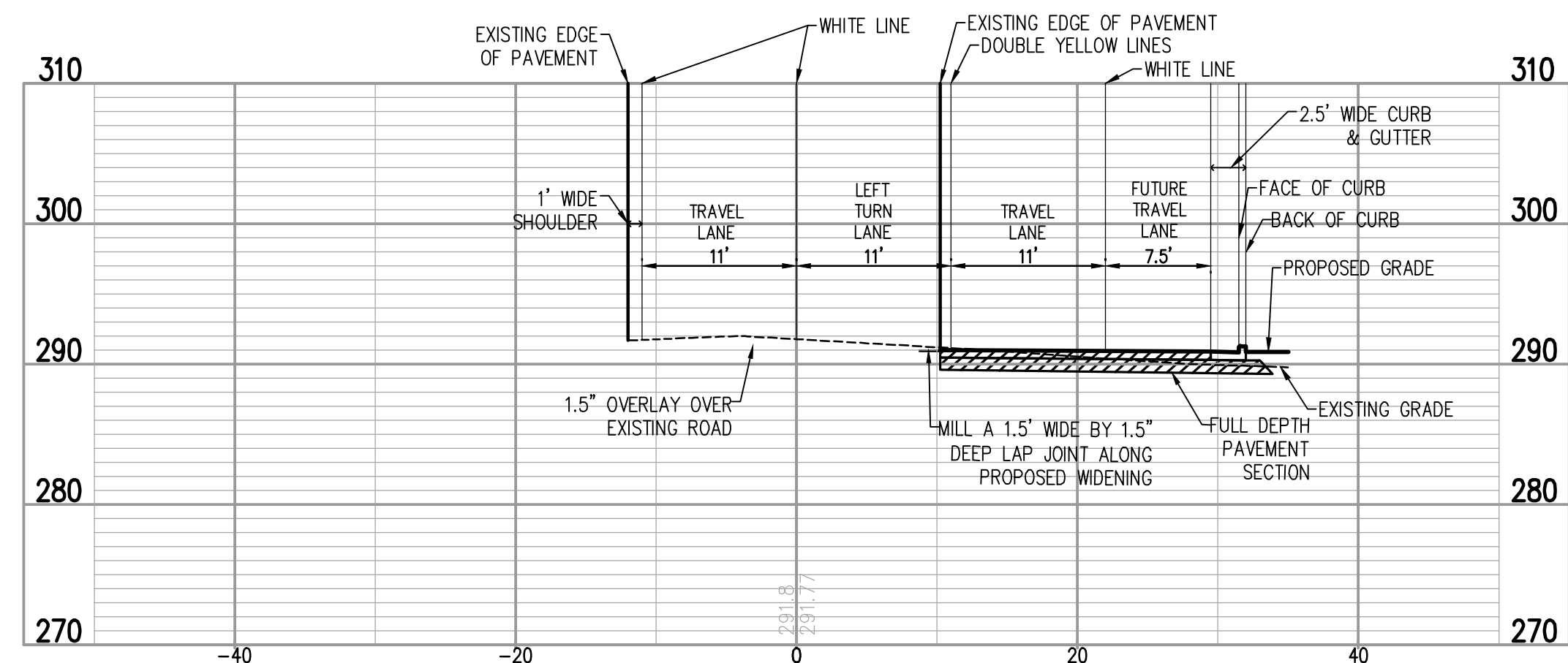




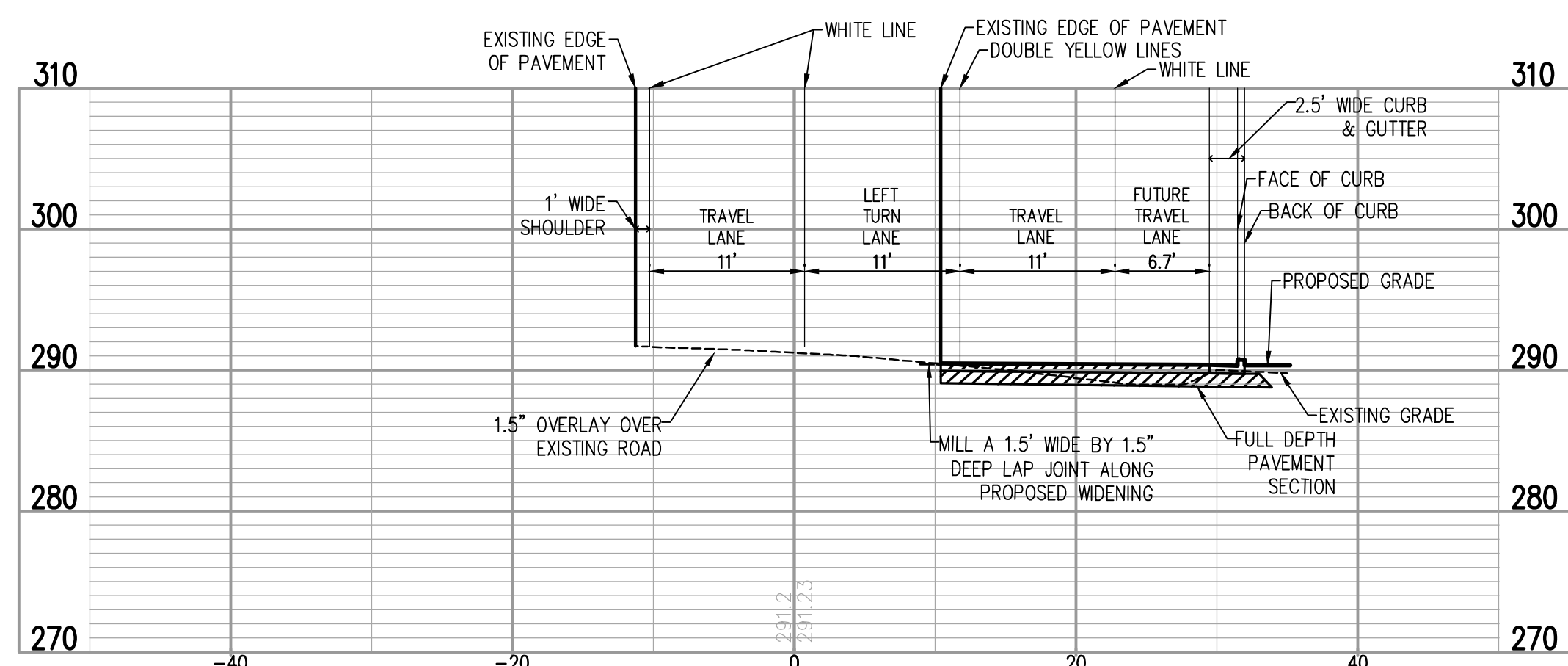
2+50.00  
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VERTICAL SCALE: 1"=10'



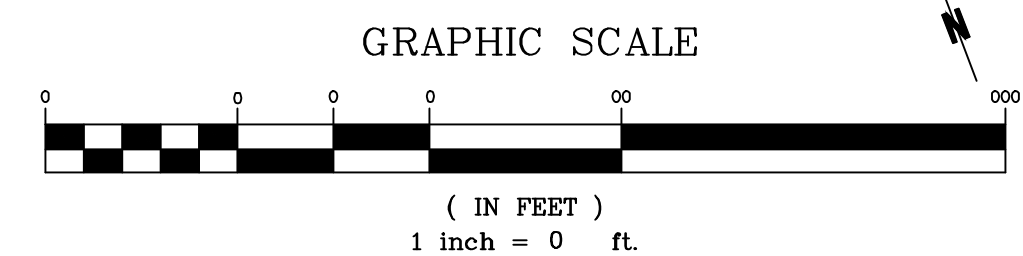
3+50.00  
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



3+00.00  
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

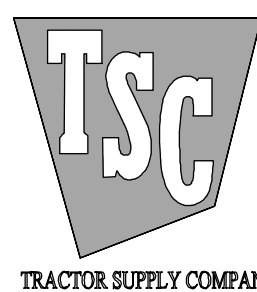


4+00.00  
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



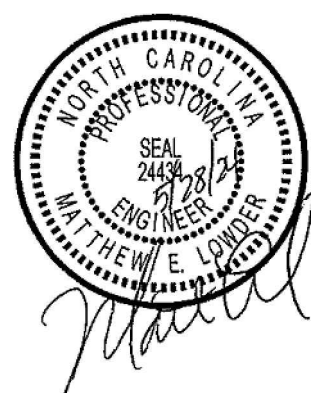
# Bowman

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Phone: (919)553-6570  
bowman.com  
Bowman North Carolina Ltd.



ROADWAY CROSS SECTIONS

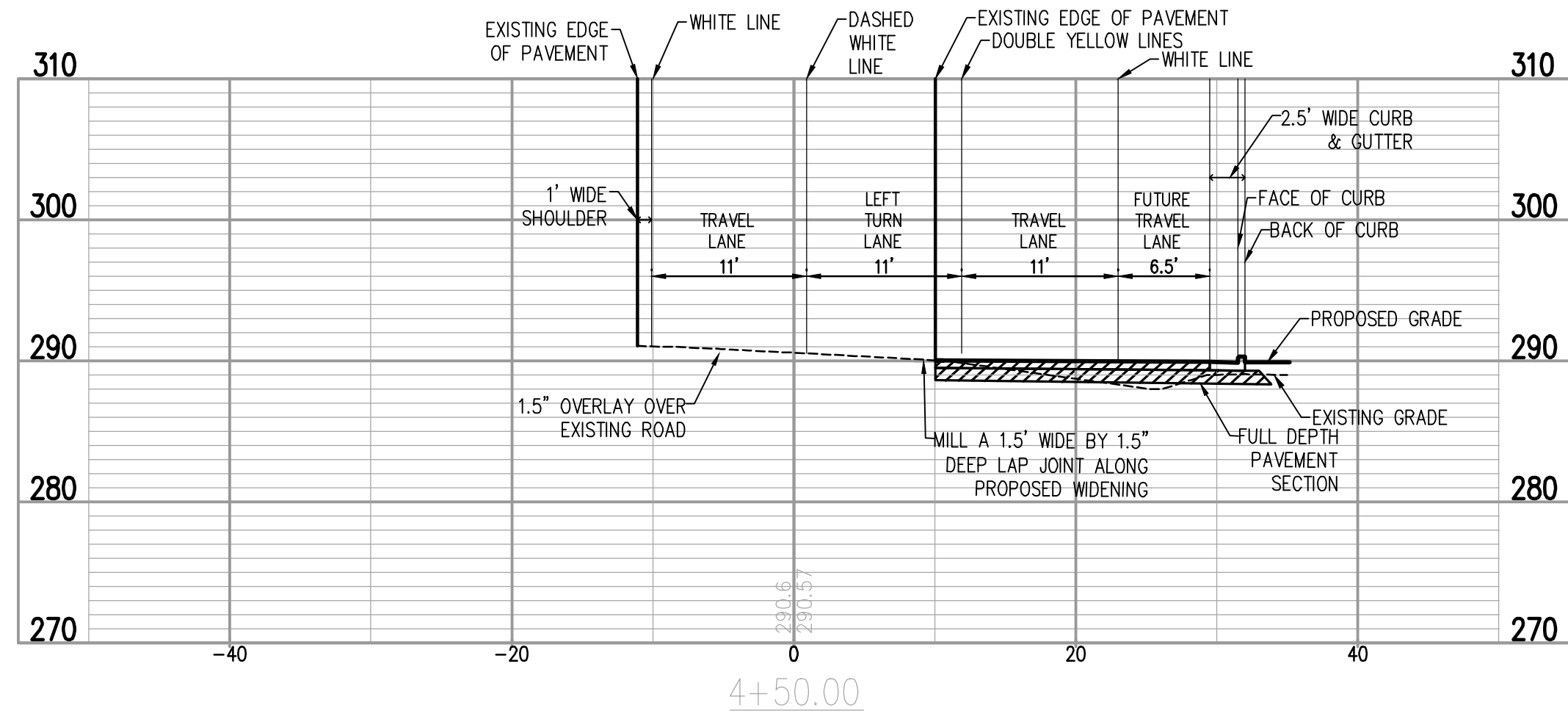
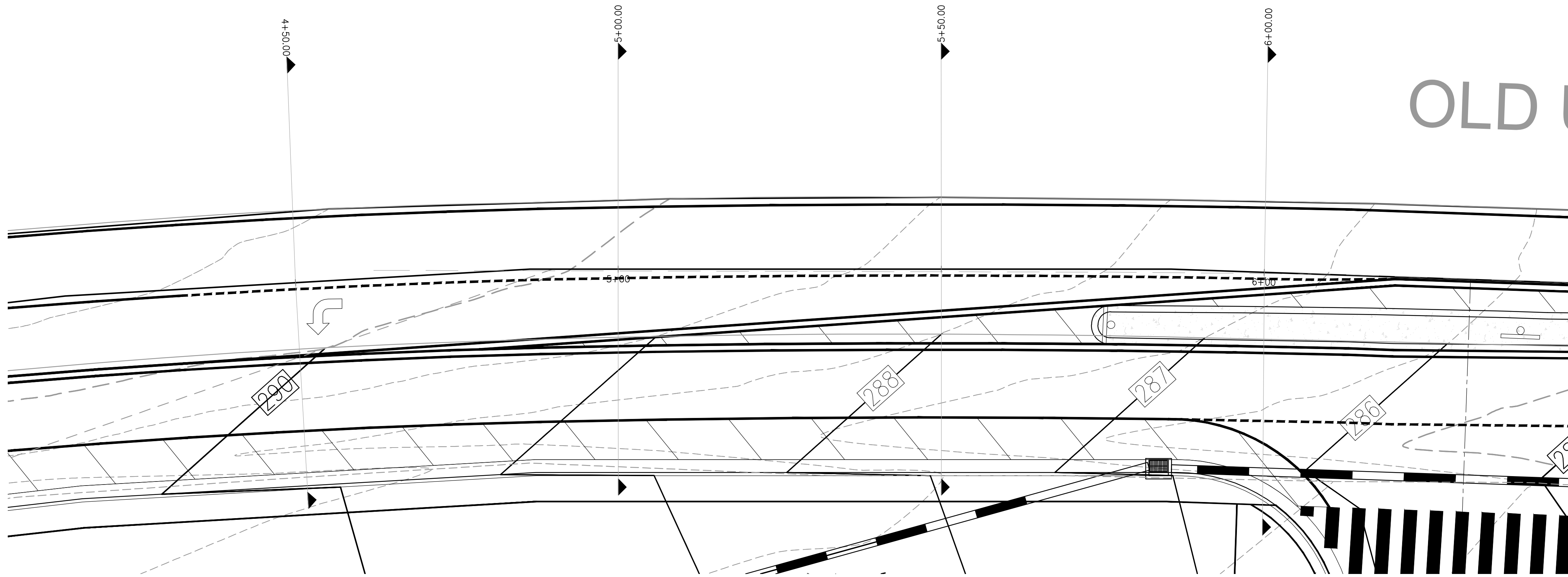
Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County



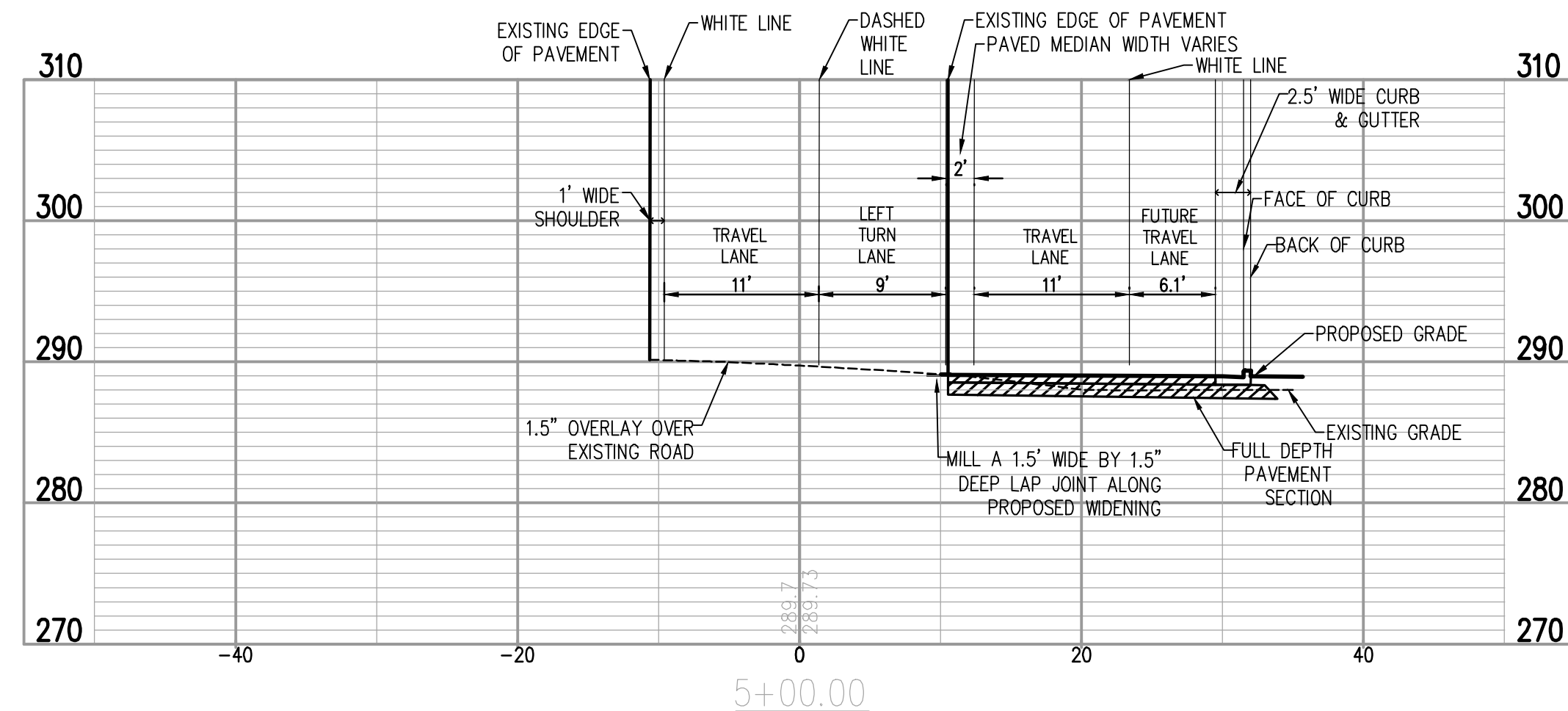
PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET C4.3

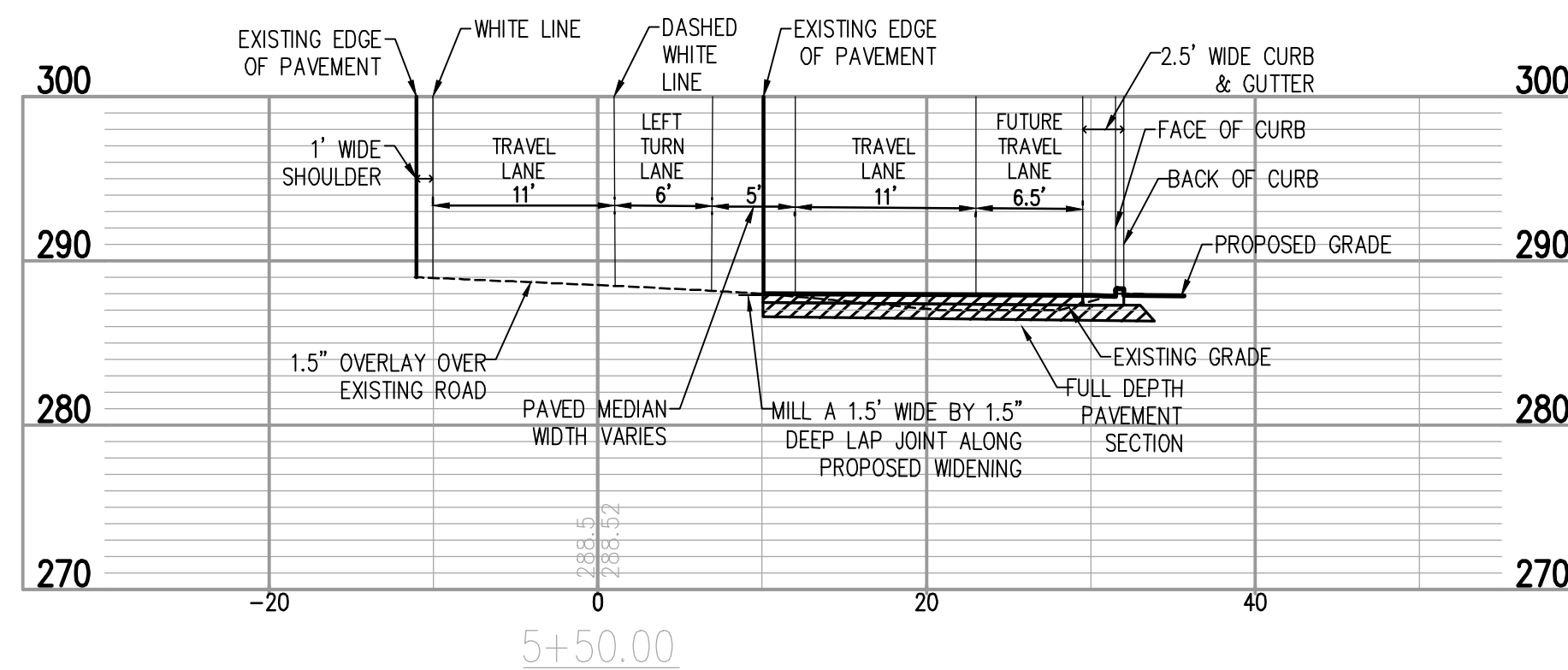




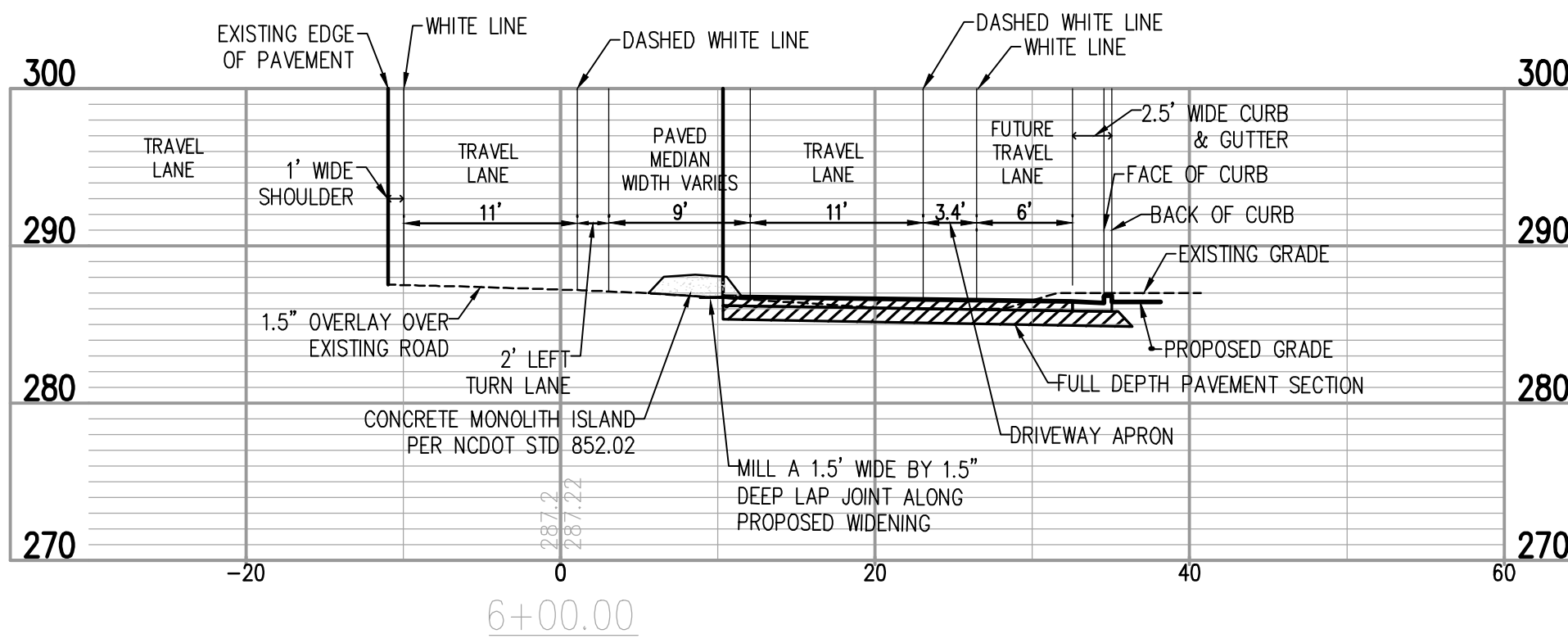
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VERTICAL SCALE: 1"=10'



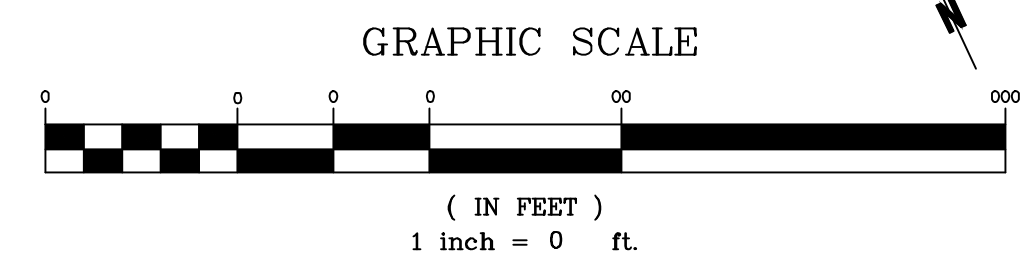
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VERTICAL SCALE: 1"=10'



HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

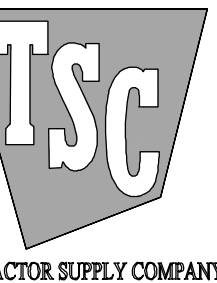


HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



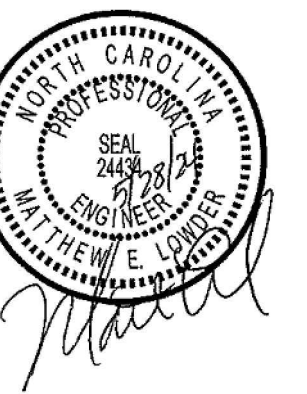
**Bowman**

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bowman.com  
Bowman North Carolina Ltd.



ROADWAY CROSS SECTIONS

Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County

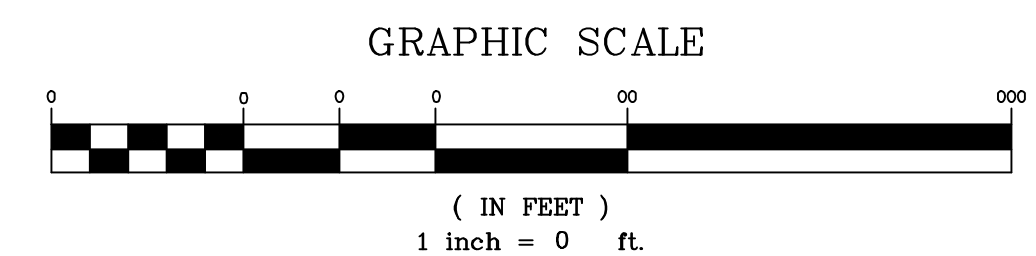
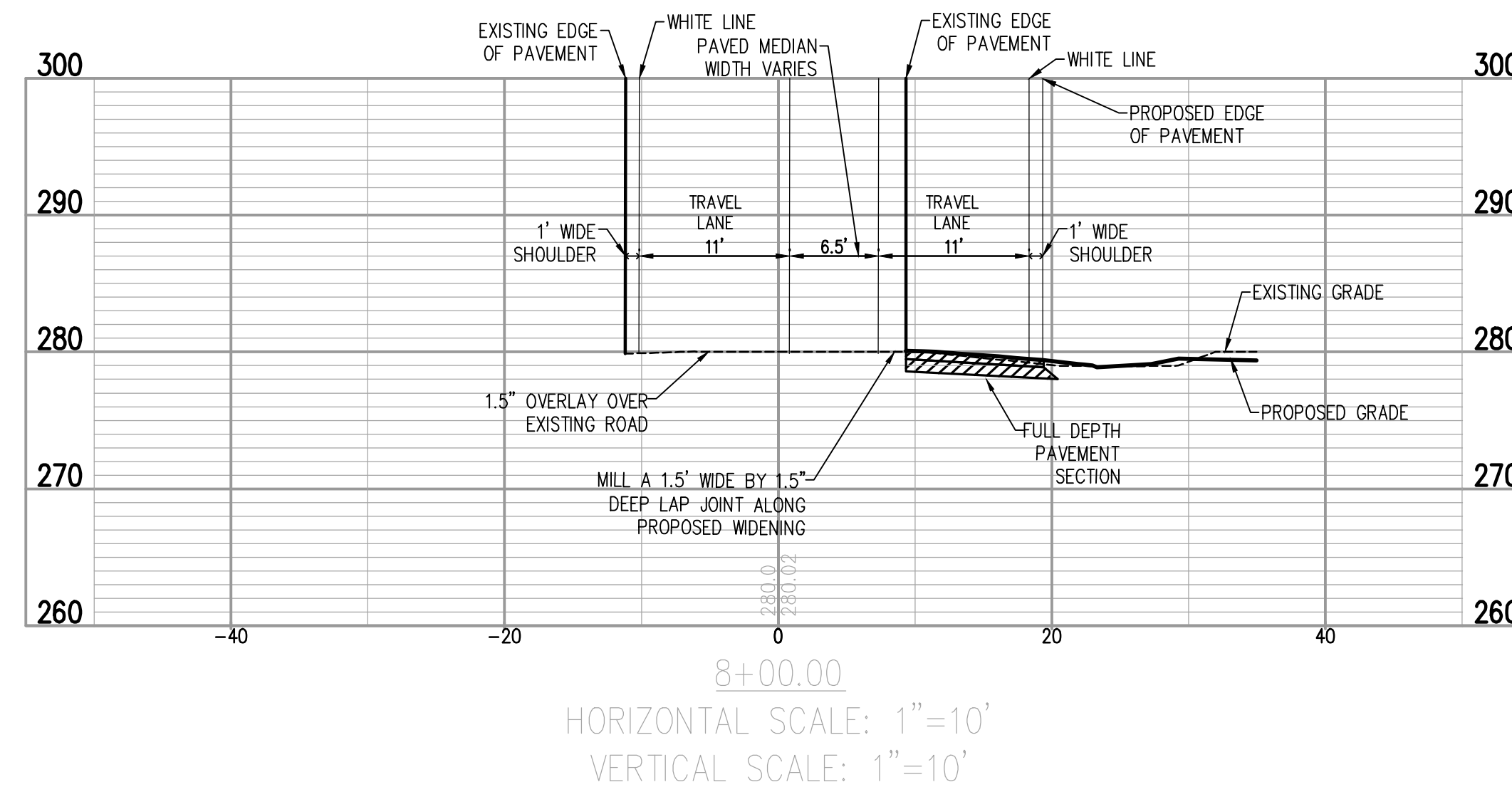
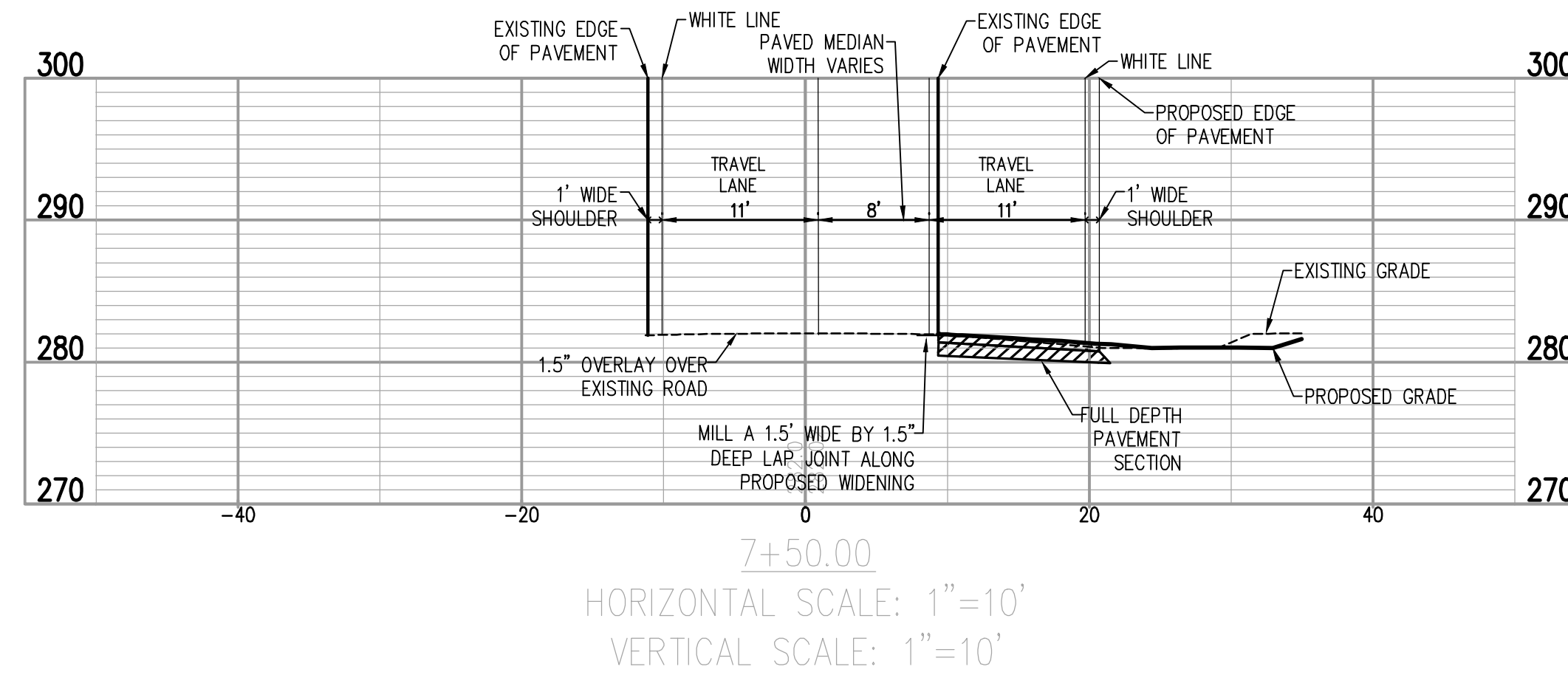
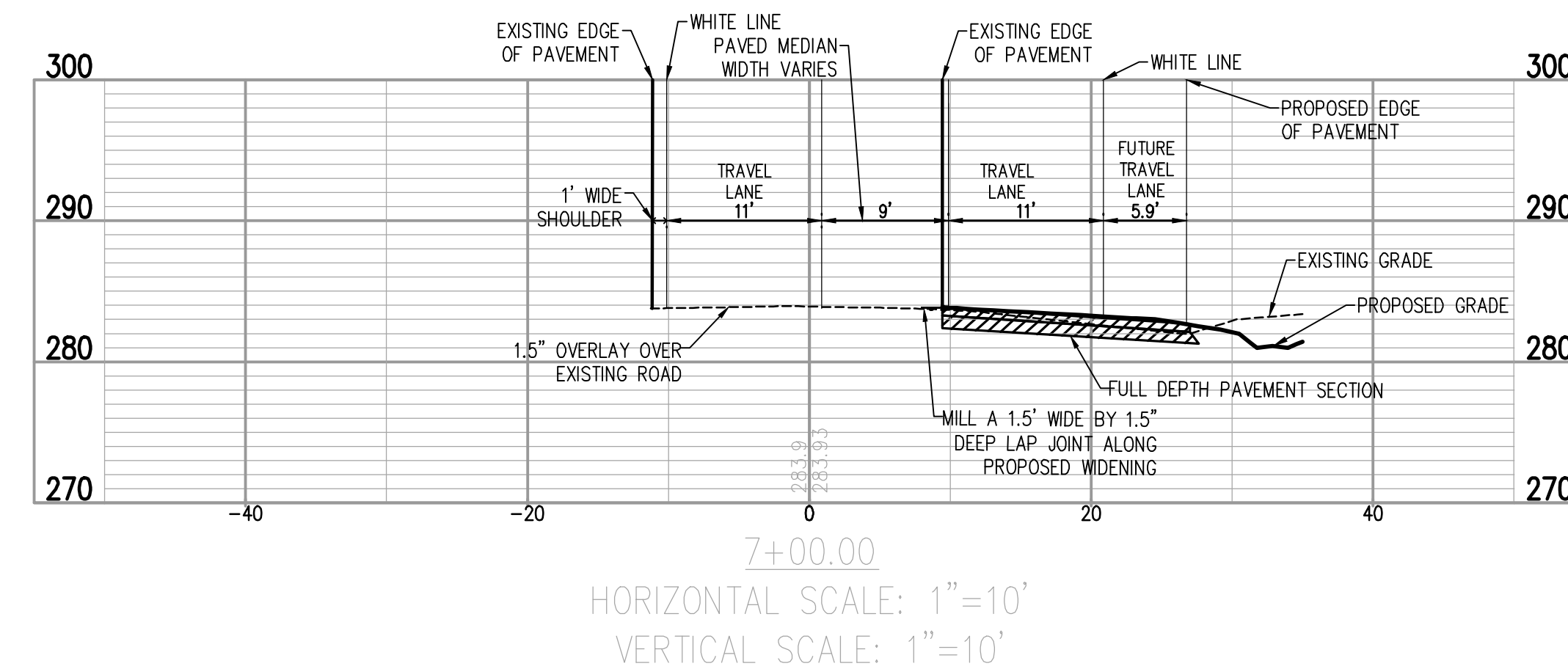
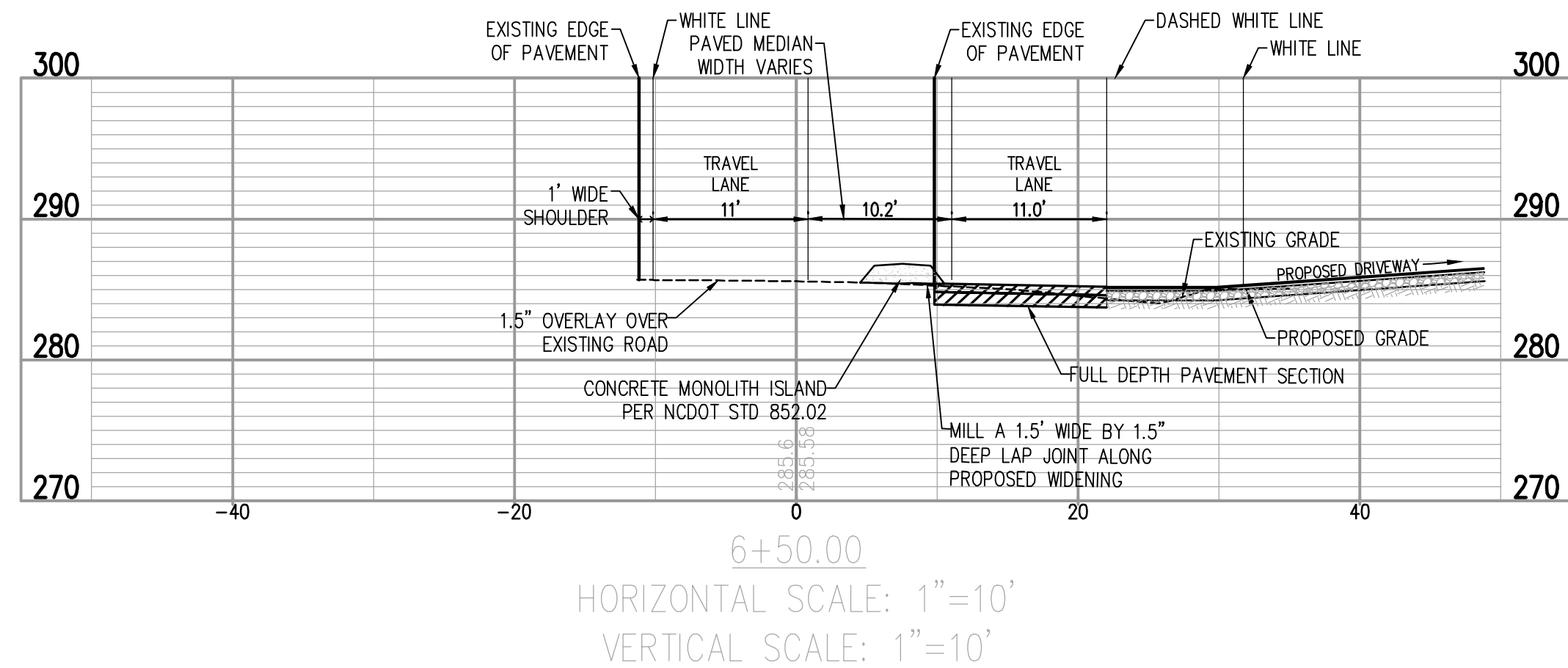
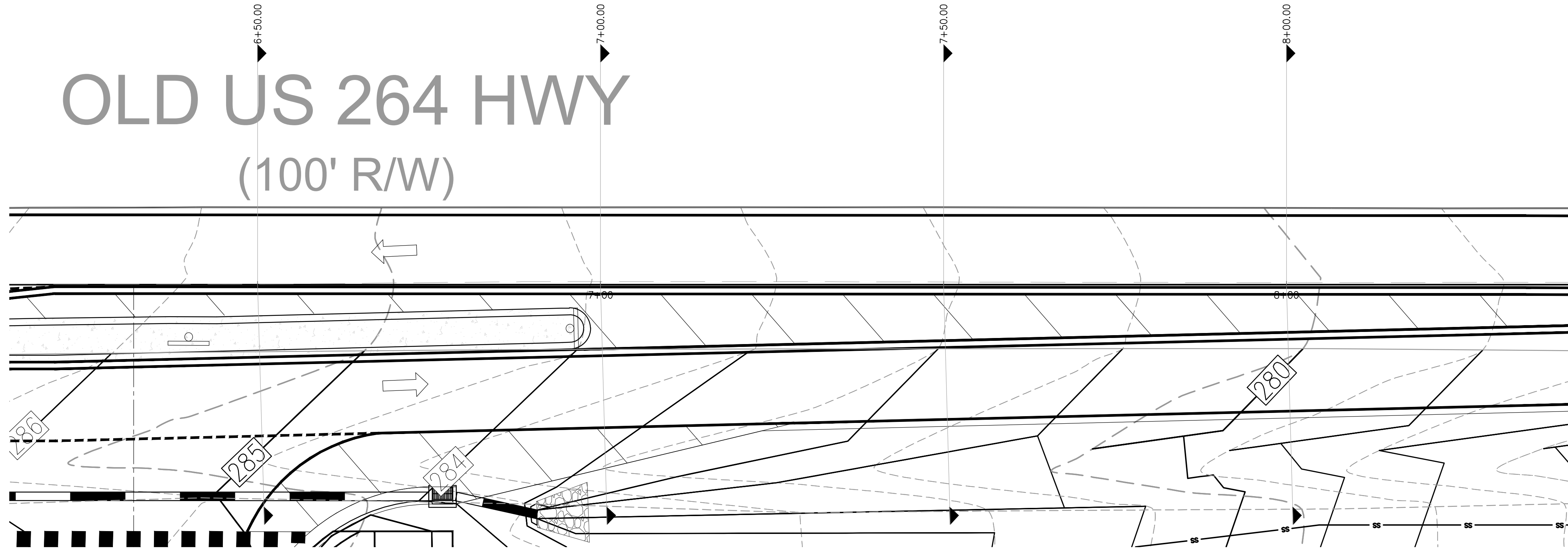


PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET C4.4

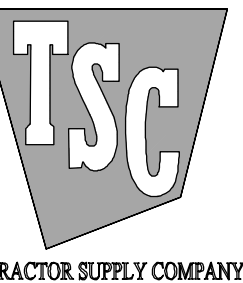


# OLD US 264 HWY (100' R/W)



# Bowman

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4006 BARRETT DR  
Suite 104  
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Phone: (919)553-6570  
bowman.com  
Bowman North Carolina Ltd.



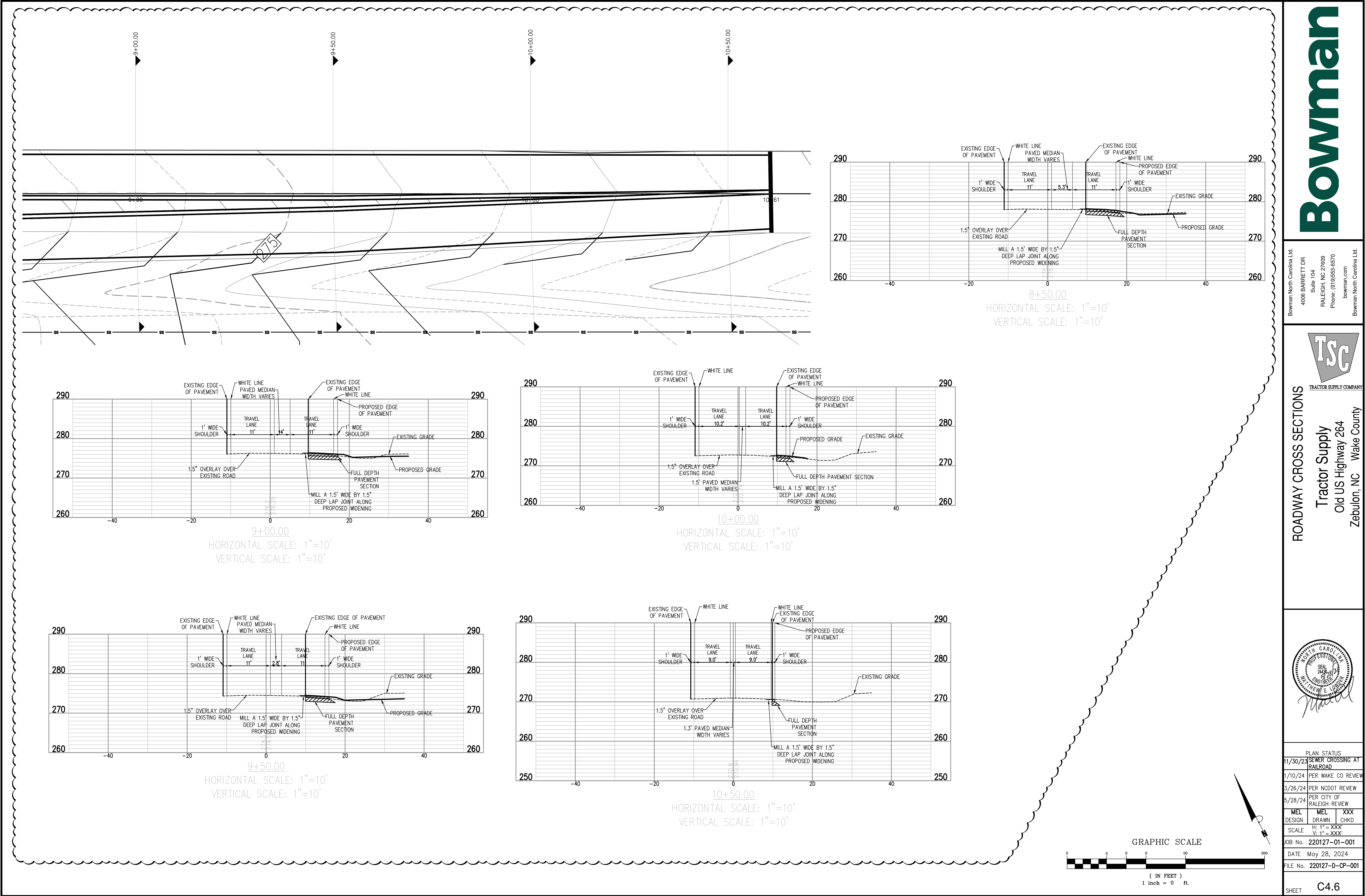
ROADWAY CROSS SECTIONS  
Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County



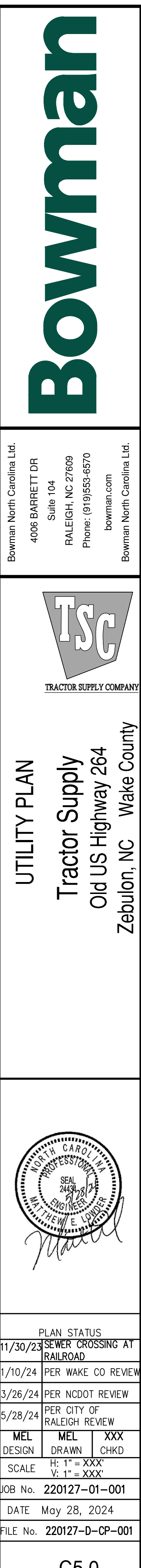
PLAN STATUS		
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1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'
JOB No. 220127-01-001		
DATE May 28, 2024		
FILE No. 220127-D-CP-001		

SHEET C4.5

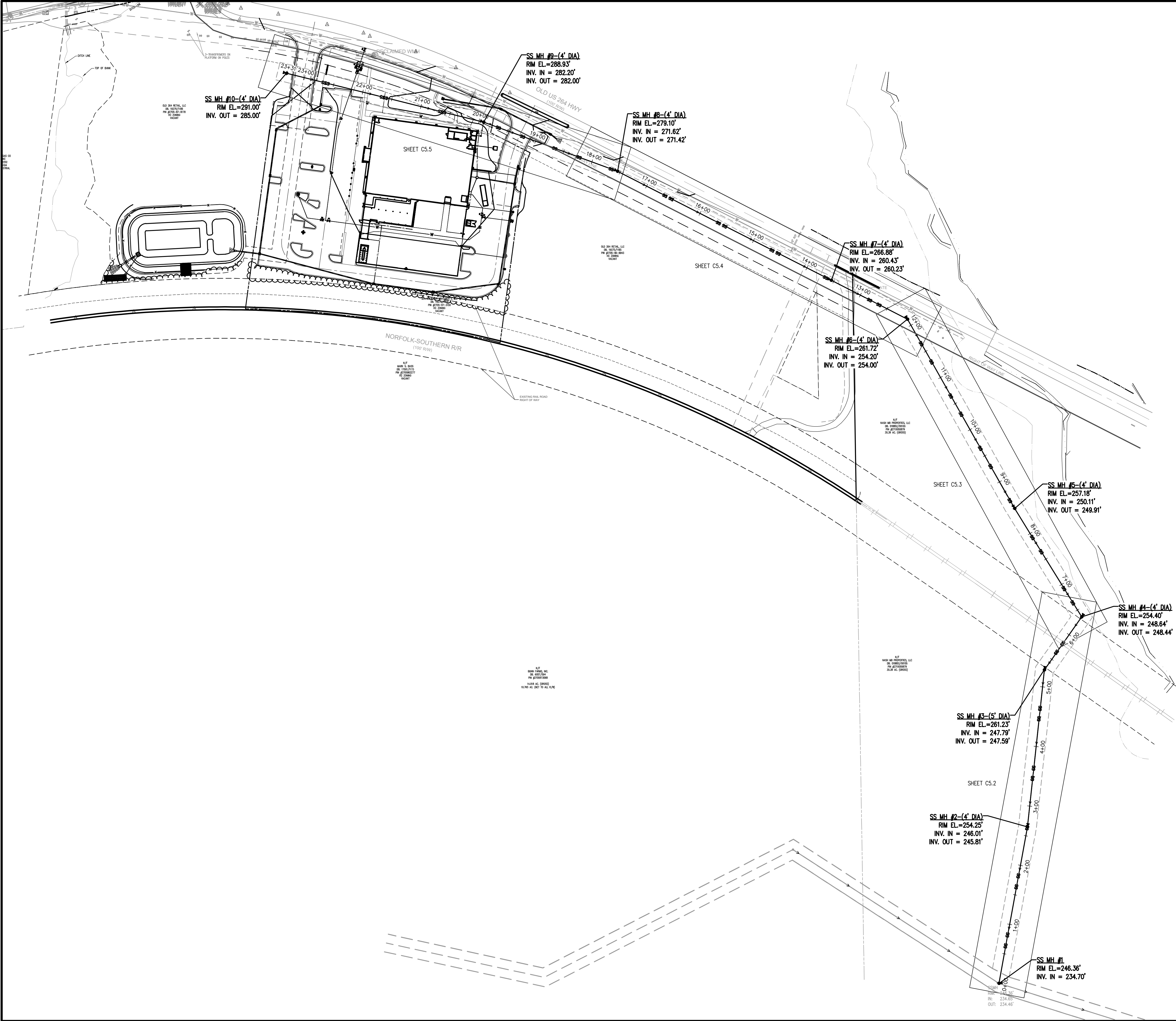












**PUBLIC**  
**Sewer Collection/Extension System**  
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
  
City of Raleigh  
Public Utilities Department Permit # S-5172  
Authorization to Construct See digital signature

**ATTENTION CONTRACTORS**  

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting the Public Utilities Department at (919)996-4540** at least **twenty four hours** prior to beginning any of their construction.

**Failure** to notify both **City Departments** in advance of beginning construction, will result in the issuance of **monetary fines** and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

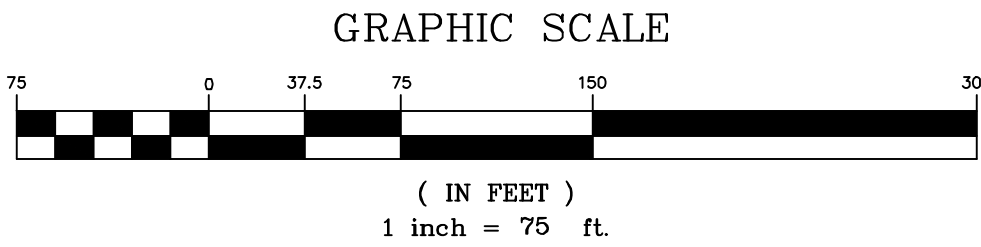
**Failure** to call for **Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.

- STANDARD UTILITY NOTES:**
- All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition).
  - Utility separation requirements:
    - A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to wateline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well.
    - When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside diameter.
    - Where it is impossible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to wateline specifications.
    - 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer.
    - Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings; maintain 18" vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min. clearance (per CORPUD details W- 41 & S-49).
    - All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required.
  - Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities Department prior to construction.
  - Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property.
  - Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24-hour advance notice to the City of Raleigh Public Utilities Department.
  - SEWER BYPASS PUMPING – A bypass plan sealed by an NC Professional Engineer shall be provided to Raleigh Water prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook.
  - 3.0' minimum cover is required on all water mains & sewer force mains. 4.0' minimum cover is required on all reuse mains.
  - It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure.
  - Install 2" copper\* water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: it is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure.
  - Install 6" PVC\* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum.
  - Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream manhole.
  - All environmental permits applicable to the project must be obtained from NCOW, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction.
  - NCDDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction.
  - Grease Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW T&E Program Coordinator prior to issuance of a UC and/or Building Permit. Contact (919) 996-4516 or [fwg@raleighnc.gov](mailto:fwg@raleighnc.gov) for more information.
  - Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.
  - The devices shall meet the American Society of Sanitary Engineering (ASSE) standards and be on the University of Southern California approval list.
  - The device and installation shall meet the guidelines of Appendix A – Guidelines and Requirements for the Cross Connection Program in Raleigh's Service Area.
  - The devices shall be installed and tested (both, initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more stringent. Contact [Crossconnection@raleighnc.gov](mailto:Crossconnection@raleighnc.gov) for more information.
  - NOTICE for projects that involve an oversized main or urban main replacement. Any City reimbursement greater than \$250,000.00 must undergo the public bidding process.



**811**  
Know what's below.  
Call before you dig.

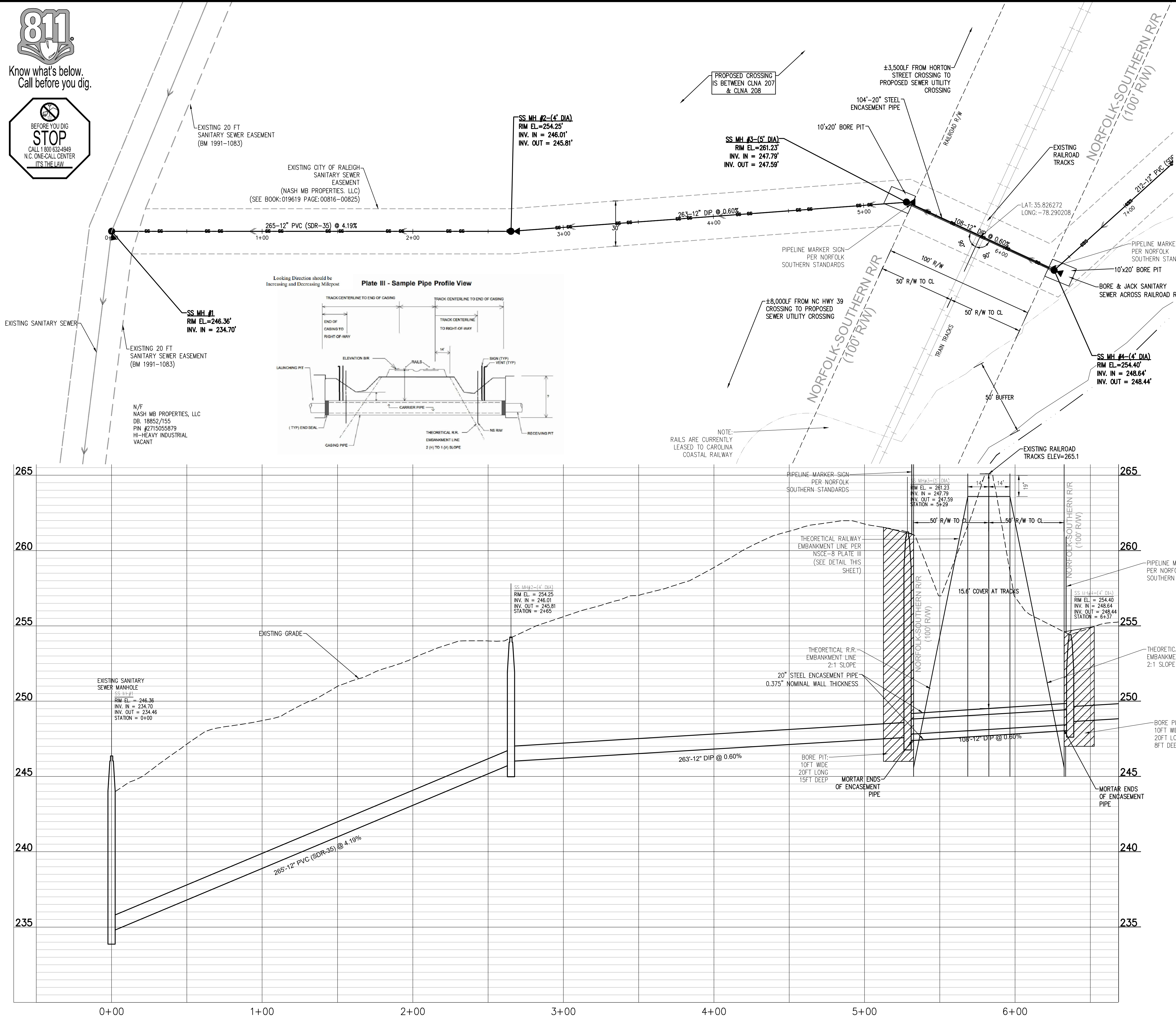
**STOP**  
BEFORE YOU DIG  
CALL 1.800.632.4349  
N.C. ONE-CALL CENTER  
IT'S THE LAW



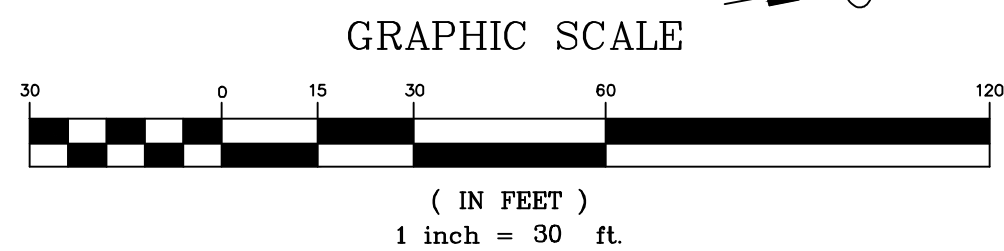




Know what's below.  
Call before you dig.

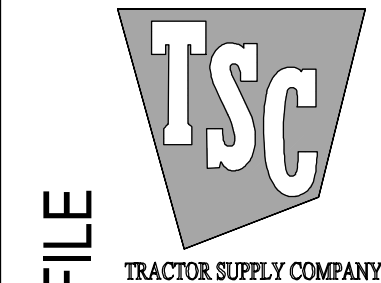


- STANDARD UTILITY NOTES:**
- All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition)
  - Utility separation requirements:
    - A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to watertight specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well.
    - When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer & must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside diameter.
    - Where it is impossible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to watertight specifications.
    - 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer
    - Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings; maintain 18" min. vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete grade having 6" min. clearance (per CORPUD details W- 41 & S-49).
    - All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required.
  - Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities Department prior to construction.
  - Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property.
  - Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24-hour advance notice to the City of Raleigh Public Utilities Department.
  - SEWER BYPASS PUMPING - A bypass plan sealed by an NC Professional Engineer shall be provided to Raleigh Water prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook.
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  - Install 2" copper\* water services with meters located at ROW or within a 2'x2' Waterline Easement immediately adjacent. NOTE: It is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure.
  - Install 6" PVC\* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum.
  - Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream manhole.
  - All environmental permits applicable to the project must be obtained from NCDWQ, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction.
  - NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction.
  - Greece Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC and/or Building Permit. Contact (919) 996-4516 or fog@raleighnc.gov for more information.
  - Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.
  - The devices shall meet the American Society of Sanitary Engineering (ASSE) standards and be on the University of Southern California approval list.
  - The device and installation shall meet the guidelines of Appendix A - Guidelines and Requirements for the Cross Connection Program in Raleigh's Service Area.
  - The devices shall be installed and tested (both, initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more stringent. Contact Cross.connection@raleighnc.gov for more information.
  - NOTICE: for projects that involve an oversized main or urban main replacement. Any City reimbursement greater than \$250,000.00 must undergo the public bidding process.



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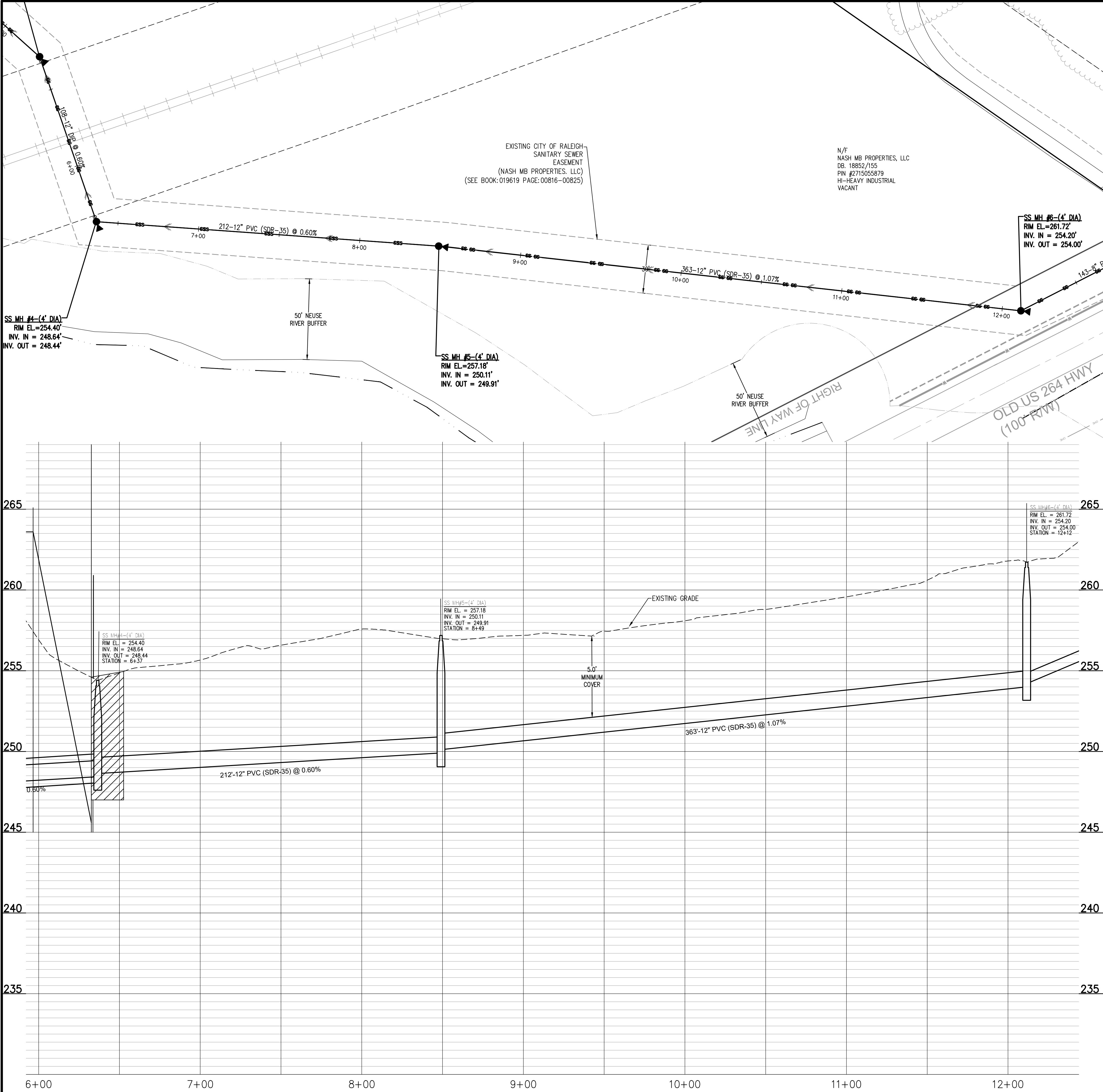
**SANITARY SEWER PLAN & PROFILE**  
**Tractor Supply**  
Old US Highway 264  
Zebulon, NC Wake County



PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET **C5.2**





Cad file name: V:\220127 - Primox Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-UTP.dwg

STANDARD UTILITY NOTES:

- All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition).
- Utility separation requirements:
  - A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to watertight specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well.
  - When installing water &/or sewer mains, the horizontal separation between utilities shall be 10'. If this separation cannot be maintained due to existing conditions, the variation allowed is the water main in a separate trench with the elevation of the water main at least 18" above the top of the sewer must be approved by the Public Utilities Director. All distances are measured from outside diameter to outside diameter.
  - Where it is impossible to obtain proper separation, or anytime a sanitary sewer passes over a watermain, DIP materials or steel encasement extended 10' on each side of crossing must be specified & installed to watertight specifications.
  - 5.0' minimum horizontal separation is required between all sanitary sewer & storm sewer facilities, unless DIP material is specified for sanitary sewer.
  - Maintain 18" min. vertical separation at all watermain & RCP storm drain crossings; maintain 18" vertical separation at all sanitary sewer & RCP storm drain crossings. Where adequate separations cannot be achieved, specify DIP materials & a concrete cradle having 6" min. clearance (per CORPUD details W- 41 & S-49).
  - All other underground utilities shall cross water & sewer facilities with 18" min. vertical separation required.
- Any necessary field revisions are subject to review & approval of an amended plan &/or profile by the City of Raleigh Public Utilities Department prior to construction.
- Developer shall provide 30 days advance written notice to owner for any work required within an existing City of Raleigh Utility Easement traversing private property.
- Contractor shall maintain continuous water & sewer service to existing residences & businesses throughout construction of project. Any necessary service interruptions shall be preceded by a 24-hour advance notice to the City of Raleigh Public Utilities Department.
- SEWER BYPASS PUMPING - A bypass plan sealed by an NC Professional Engineer shall be provided to Raleigh Water prior to pumping operations for approval. The operations and equipment shall comply with the Public Utilities Handbook.
- 3.0' minimum cover is required on all water mains & sewer force mains. 4.0' minimum cover is required on all reuse mains.
- It is the developer's responsibility to abandon or remove existing water & sewer services not being used in redevelopment of a site unless otherwise directed by the City of Raleigh Public Utilities Department. This includes abandoning tap at main & removal of service from ROW or easement per CORPUD Handbook procedure.
- Install 2" copper\* water services with meters located at ROW or within a 2'x2' Watertight Easement immediately adjacent. NOTE: It is the applicant's responsibility to properly size the water service for each connection to provide adequate flow & pressure.
- Install 6" PVC\* sewer services @ 1.0% minimum grade with cleanouts located at ROW or easement line & spaced every 75 linear feet maximum.
- Pressure reducing valves are required on all water services exceeding 80 psi; backwater valves are required on all sanitary sewer services having building drains lower than 1.0' above the next upstream manhole.
- All environmental permits applicable to the project must be obtained from NCDOW, USACE &/or FEMA for any riparian buffer, wetland &/or floodplain impacts (respectively) prior to construction.
- NCDOT / Railroad Encroachment Agreements are required for any utility work (including main extensions & service taps) within state or railroad ROW prior to construction.
- Gross Interceptor / Oil Water Separator sizing calculations & installation specifications shall be approved by the RW FOG Program Coordinator prior to issuance of a UC and/or Building Permit. Contact (919) 996-4516 or fog@raleighnc.gov for more information.
- Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.
- The devices shall meet the American Society of Sanitary Engineering (ASAE) standards and be on the University of Southern California approval list.
- The device and installation shall meet the guidelines of Appendix A -Guidelines and Requirements for the Cross Connection Program in Raleigh's Service Area.
- The devices shall be installed and tested (both, initial and periodic testing thereafter) in accordance with the manufacturer's recommendations or the local cross connection control program, whichever is more stringent. Contact Cross.connection@raleighnc.gov for more information.
- NOTICE for projects that involve an oversized main or urban main replacement. Any City reimbursement greater than \$250,000.00 must undergo the public bidding process.

PUBLIC  
Sewer Collection/Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
Public Utilities Department Permit # S6172  
Authorization to Construct See digital signature

ATTENTION CONTRACTORS

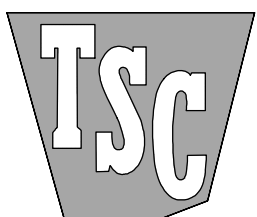
The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting the Public Utilities Department at (919) 996-4540** at least **twenty four hours** prior to beginning any of their construction.

**Failure** to notify both **City Departments** in advance of beginning construction, will result in the issuance of **monetary fines**, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

**Failure** to call for **Inspection**, **Install a Downstream Plug**, have **Permitted Plans** on the **Jobsite**, or any other **Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.

**Bowman**

Bowman North Carolina Ltd.  
4006 BARRETT DR  
Suite 104  
RALEIGH, NC 27609  
Phone: (919) 953-6570  
bowman.com  
Bowman North Carolina Ltd.



SANITARY SEWER PLAN & PROFILE

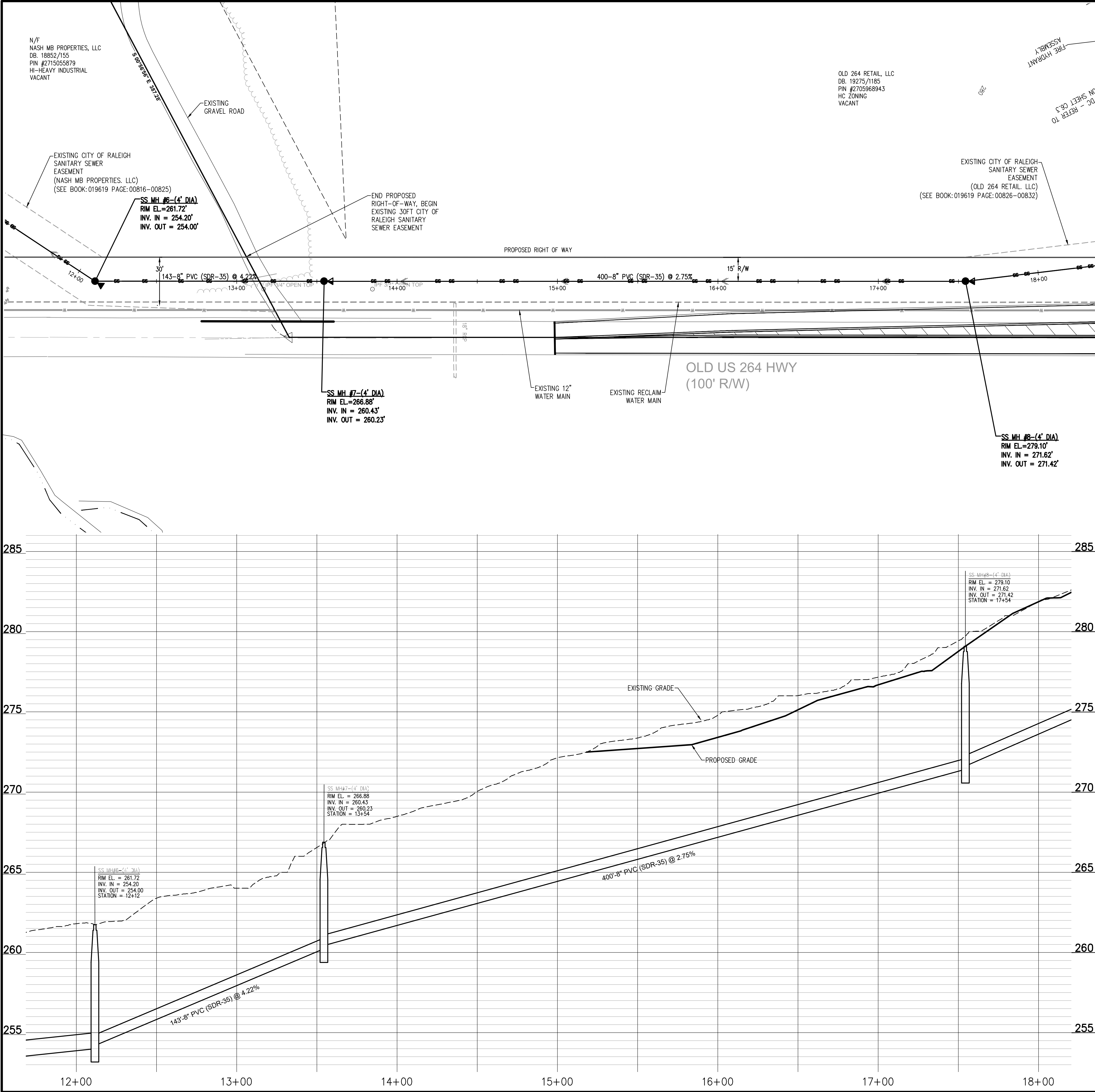
Tractor Supply  
Old US Highway 264  
Zebulon, NC Wake County



PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET C5.3





Cad file name: V:\220127 - Primox Prop LLC\220127-01-001 (ENG) - Tractor Supply - Zebulon, NC\Engineering\Engineering Plans\ConstructionDocuments\220127-01-001-UTP.dwg

**PUBLIC  
Sewer Collection/Extension System**

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City of Raleigh  
Public Utilities Department Permit # S5172

Authorization to Construct See digital signature

**ATTENTION CONTRACTORS**

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting the Public Utilities Department at (919)998-4540** at least **twenty four hours** prior to beginning any of their construction.

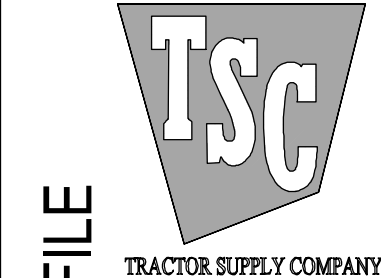
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- STANDARD UTILITY NOTES:**
- All materials & construction methods shall be in accordance with City of Raleigh design standards, details & specifications (reference: CORPUD Handbook, current edition).
  - Utility separation requirements:
    - A distance of 100' shall be maintained between sanitary sewer & any private or public water supply source such as an impounded reservoir used as a source of drinking water. If adequate lateral separation cannot be achieved, ferrous sanitary sewer pipe shall be specified & installed to waterline specifications. However, the minimum separation shall not be less than 25' from a private well or 50' from a public well.
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  - Cross-connection control protection devices are required based on the degree of health hazard involved as listed in Appendix B of the Rules Governing Public Water Systems in North Carolina.
  - The devices shall meet the American Society of Sanitary Engineering (ASAE) standards and be on the University of Southern California approval list.
  - The device and installation shall meet the guidelines of Appendix A -Guidelines and Requirements for the Cross Connection Program in Raleigh's Service Area.
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**SANITARY SEWER PLAN & PROFILE**

**Tractor Supply**  
Old US Highway 264  
Zebulon, NC Wake County



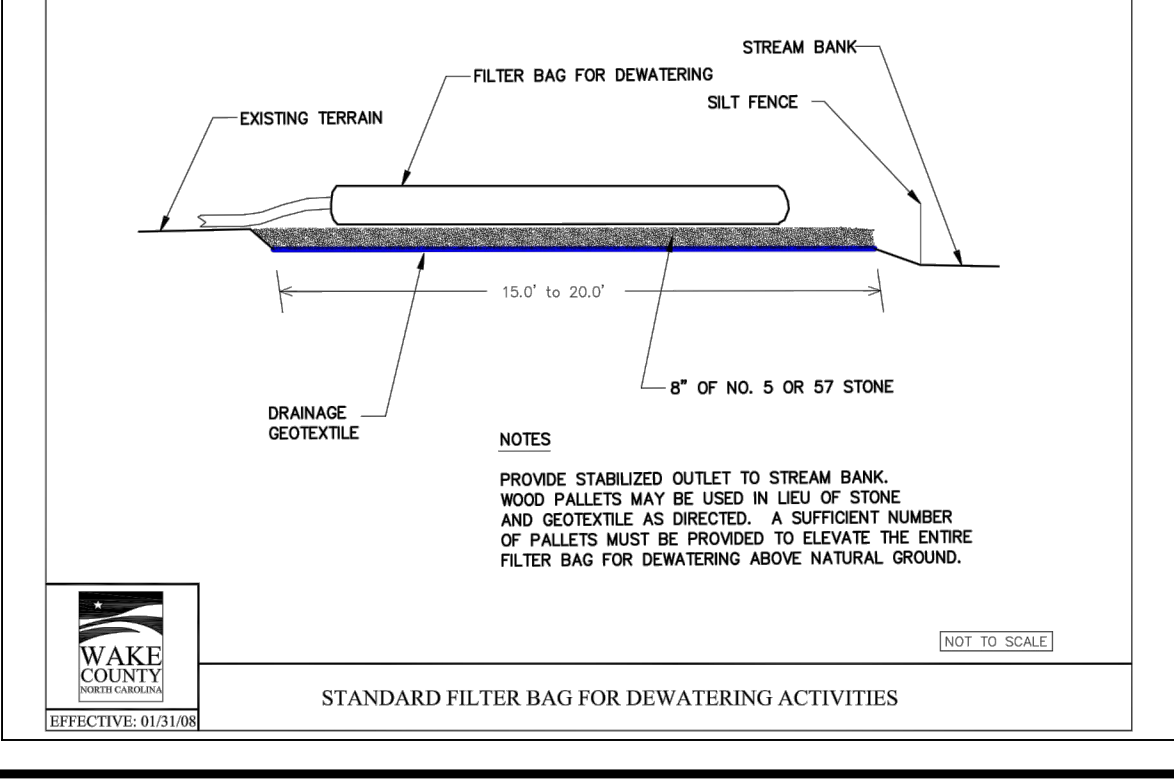
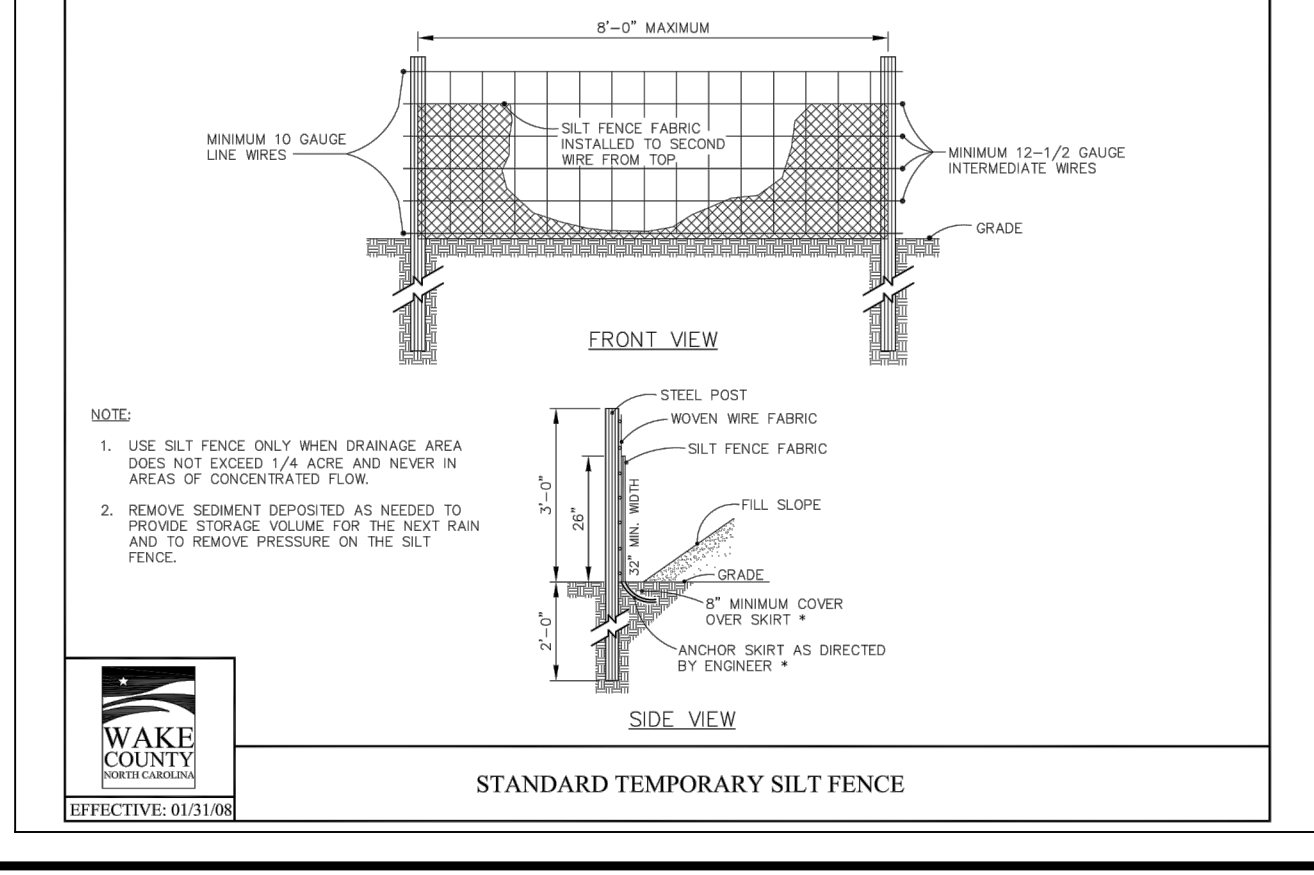
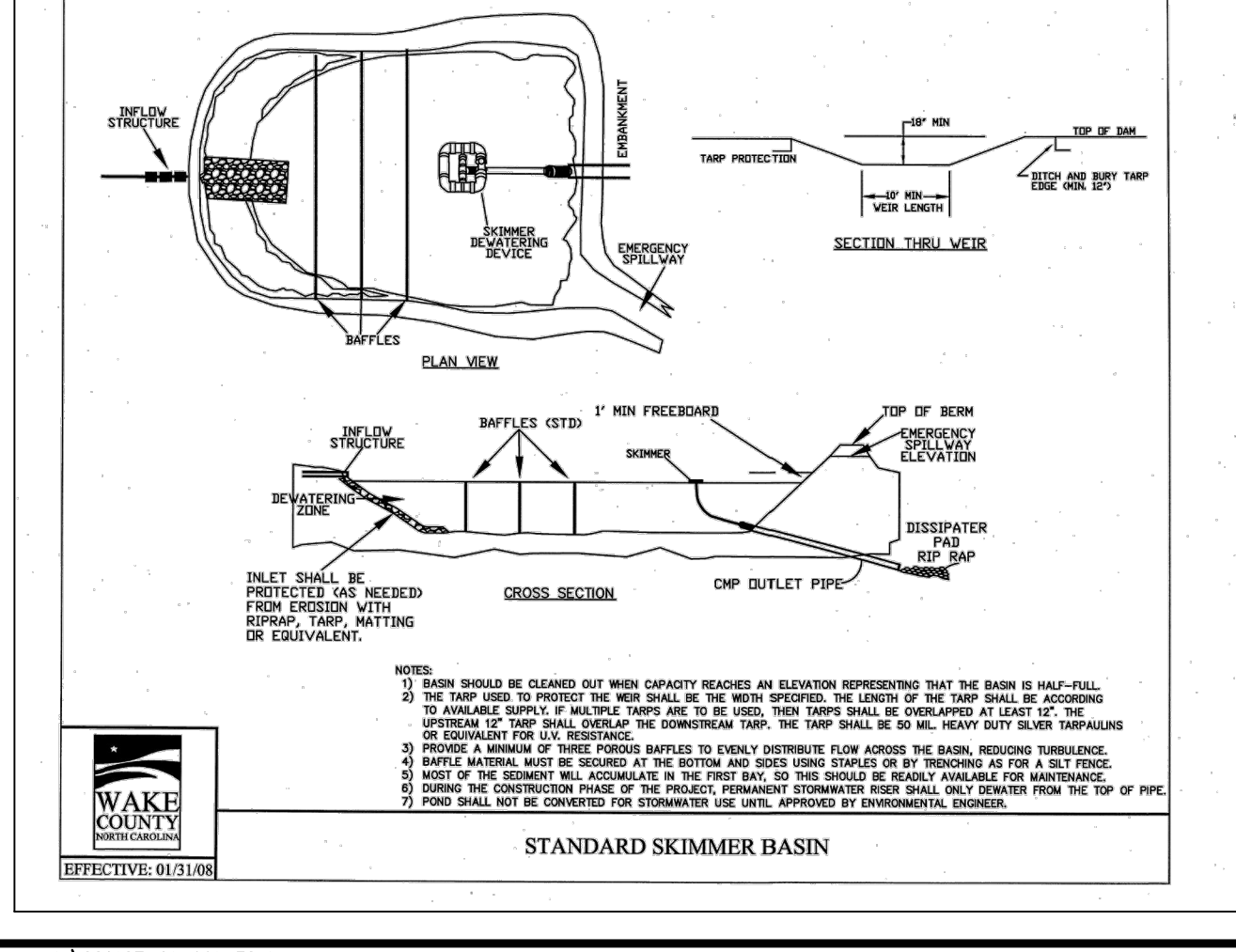
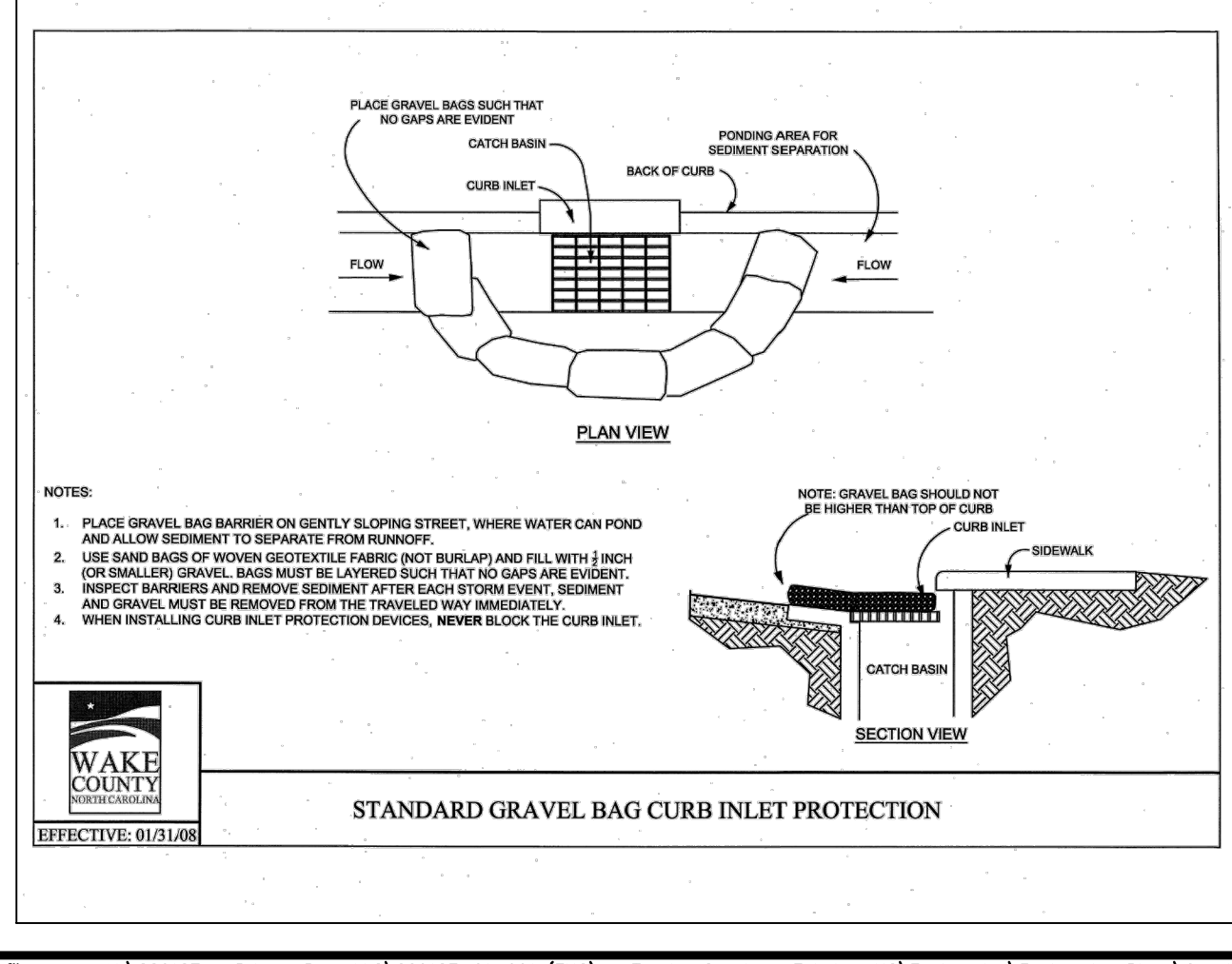
PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE	H: 1" = XXX'	V: 1" = XXX'
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

SHEET **C5.4**



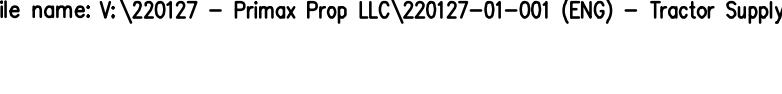
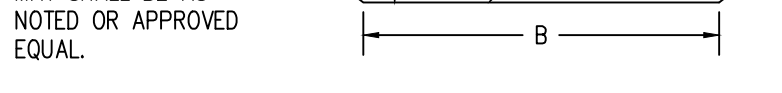
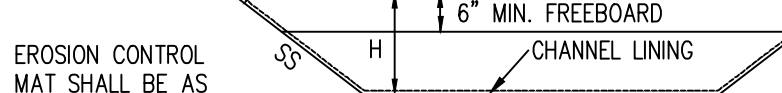
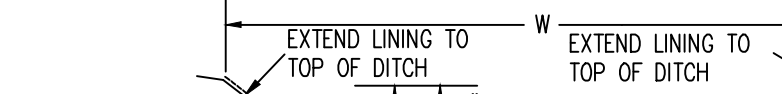
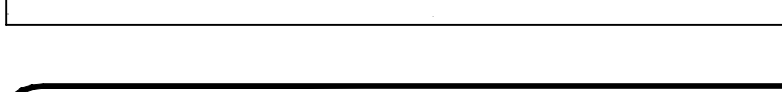
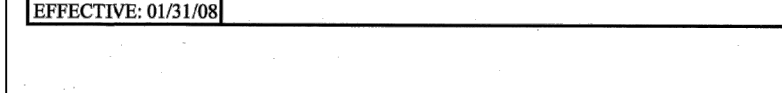
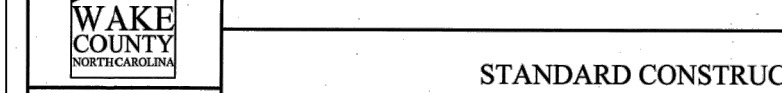
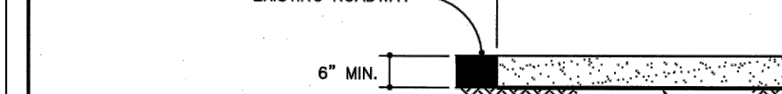
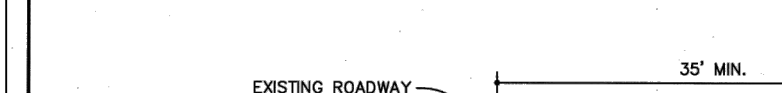
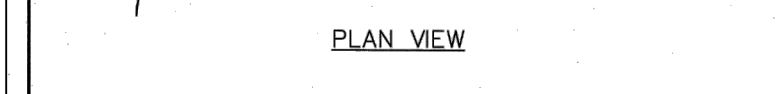
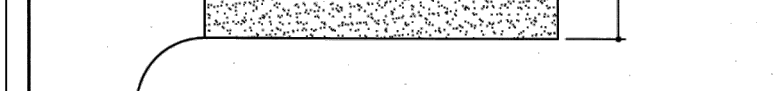
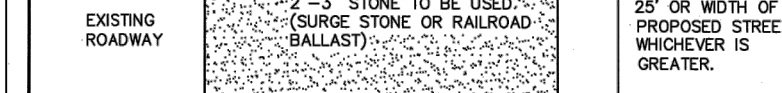
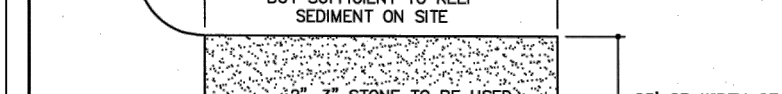
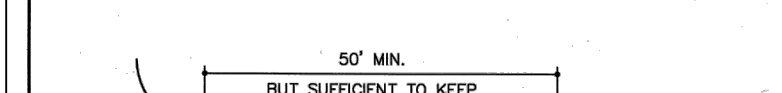
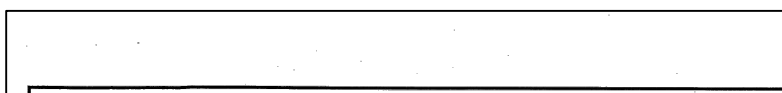
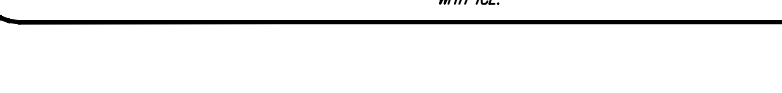
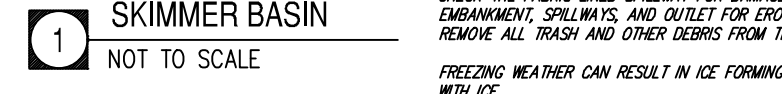
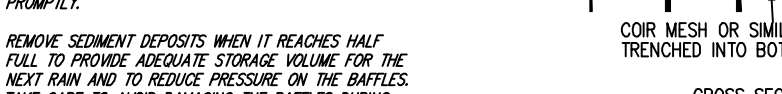
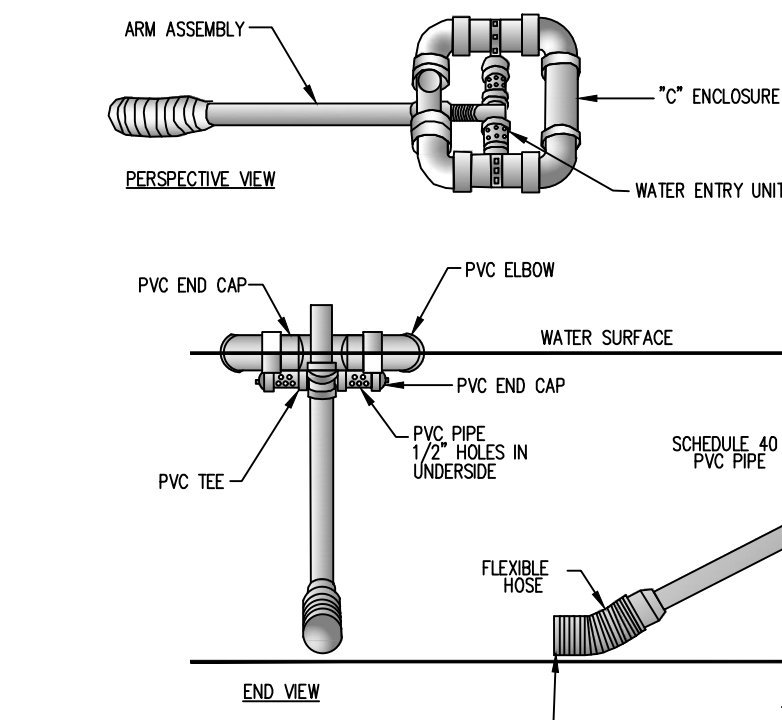




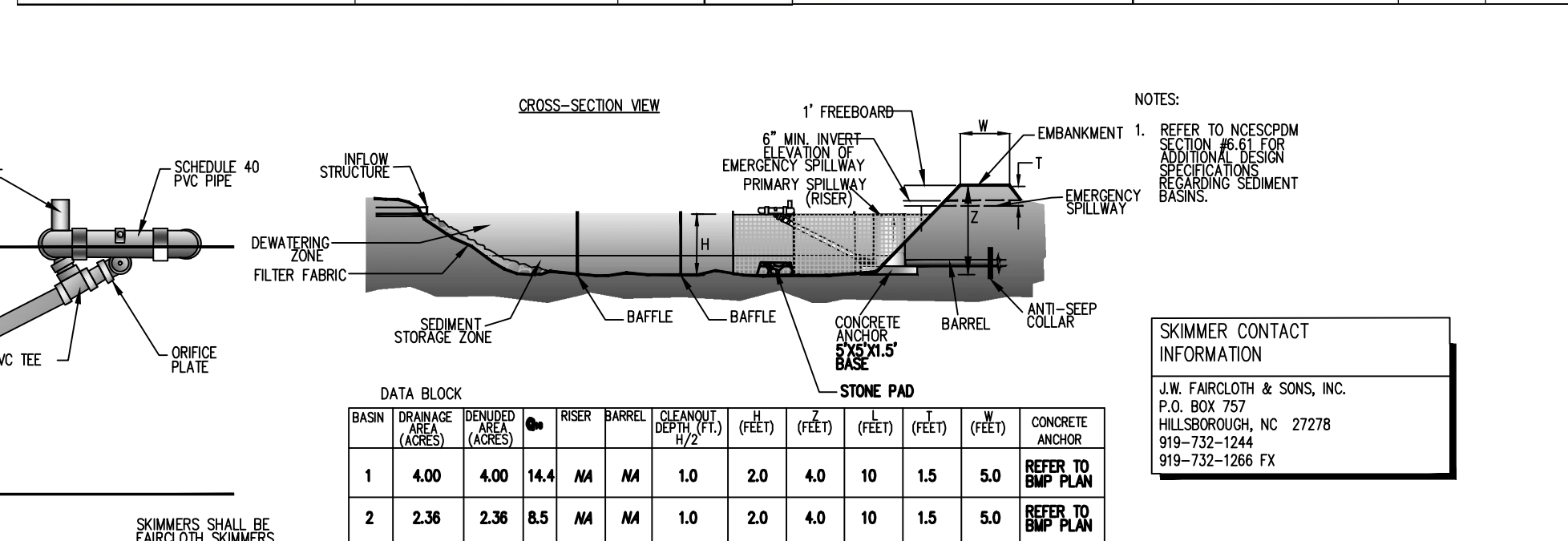




**SEDIMENT BASIN REQUIREMENTS:**  
SEDIMENT BASINS AND TRAPS SHALL MEET THE FOLLOWING REQUIREMENTS:  
1) OUTLET STRUCTURES SHALL BE UTILIZED THAT WITHDRAW WATER FROM THE SURFACE.  
2) FOR BASINS OR TRAPS THAT HAVE A DRAINAGE AREA OF LESS THAN 10 ACRES, DRAIN-DOWN DESIGNS SPECIFIED IN THE DIVISION OF LAND RESOURCES OR DELEGATED LOCAL PROGRAM REQUIREMENTS ARE ACCEPTABLE.  
3) CHEMICAL TREATMENT:  
a) ALL TREATMENT CHEMICALS MUST BE STORED IN LEAK-PROOF CONTAINERS THAT ARE KEPT UNDER SECOND-RESISTANT COVER OR SURROUNDED BY SECONDARY CONTAINMENT STRUCTURES DESIGNED TO PROTECT ADJACENT SURFACE WATERS.  
b) THE PERMITTEE MUST ONLY USE CHEMICALS THAT HAVE BEEN APPROVED BY THE NC DIVISION OF WATER QUALITY AND POSTED ON THEIR NORTH CAROLINA DIVISION OF WATER QUALITY APPROVED PANS/FLOCCULANTS LIST FOUND ON THEIR WEBSITE AT: <http://portal.ncdwr.org/web/ncw/ncw/ncw/>  
c) THE PERMITTEE MUST ROUTE STORMWATER TREATED WITH POLYMERS, FLOCCULANTS, OR OTHER TREATMENT CHEMICALS THROUGH SEDIMENT TRAPPING, FILTERING, AND/OR SETTLING DEVICES TO ENSURE ADEQUATE REMOVAL OF SEDIMENT FLOCCULANT PRIOR TO DISCHARGE TO SURFACE WATERS.  
4) DISCHARGE REQUIREMENTS - DISCHARGES MUST MEET THE STATUTORY REQUIREMENTS OF THE SEDIMENT POLLUTION CONTROL ACT AND UTILIZE THE PROVISIONS OF SECTION 6.14 OF THE EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL TO ASSURE THAT BUFFERED AND VEGETATED AREAS WILL BE USED TO REDUCE THE POTENTIAL FOR VISIBLE SLAKING OUTSIDE OF THE 25% BUFFER ZONE NEAREST THE LAND-DISTURBING ACTIVITY.



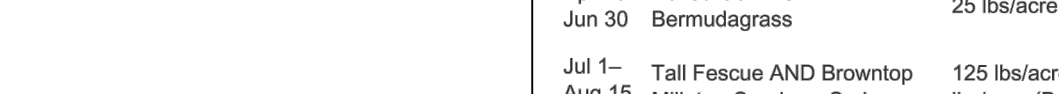
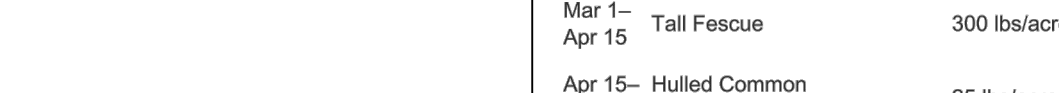
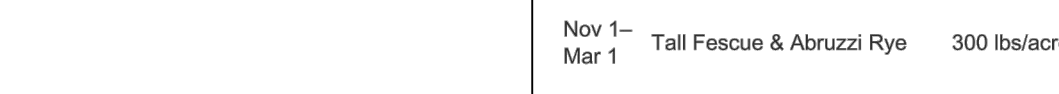
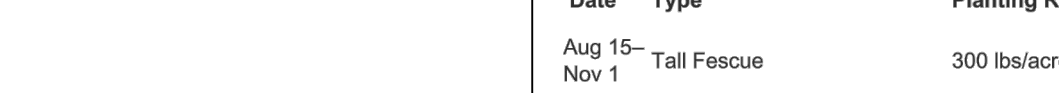
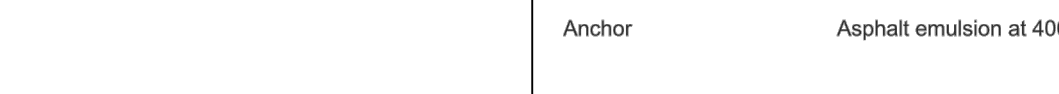
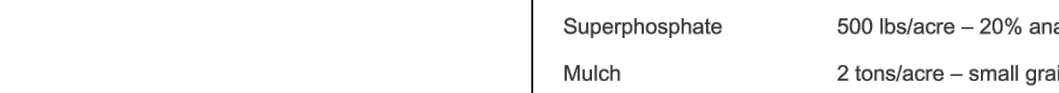
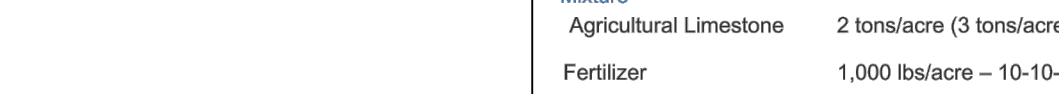
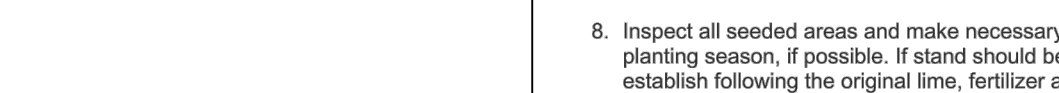
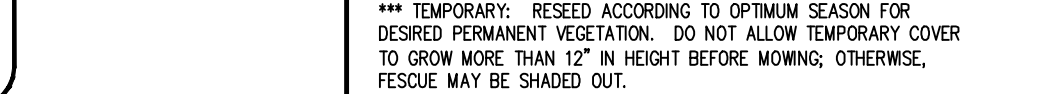
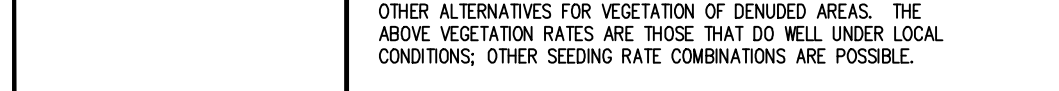
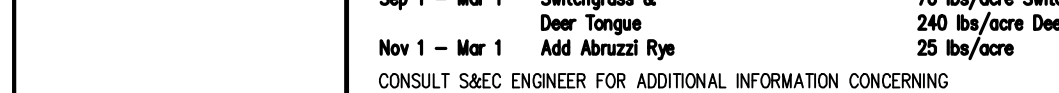
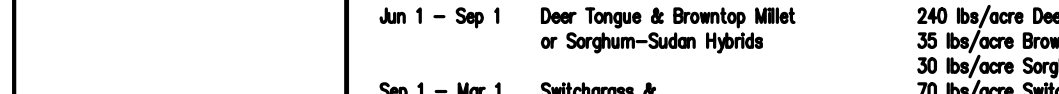
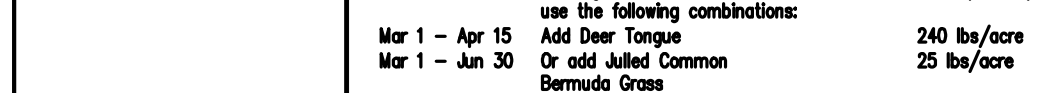
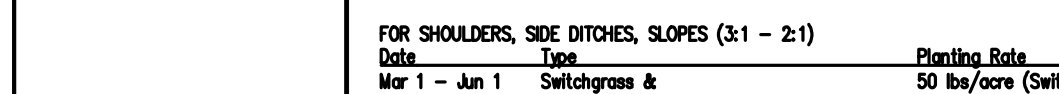
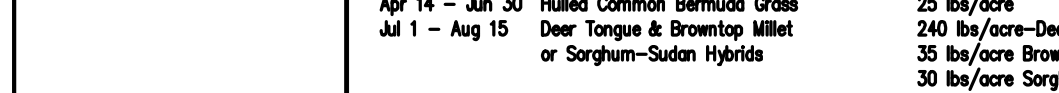
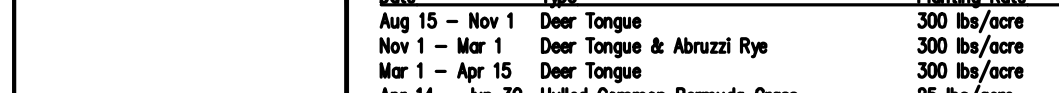
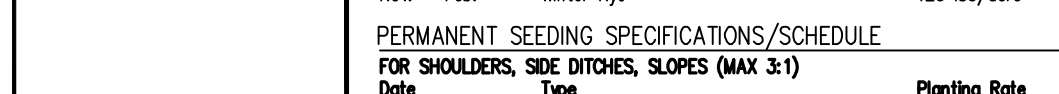
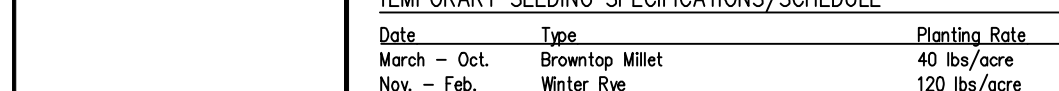
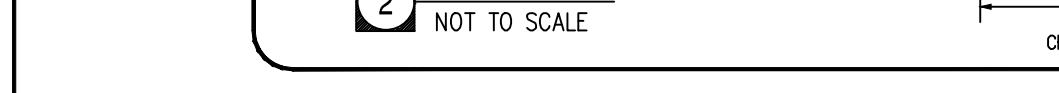
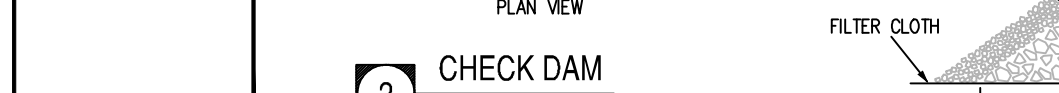
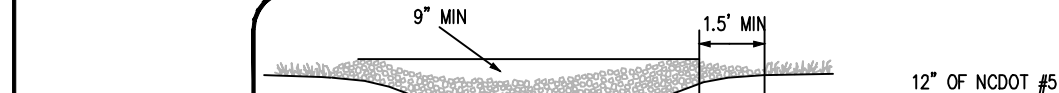
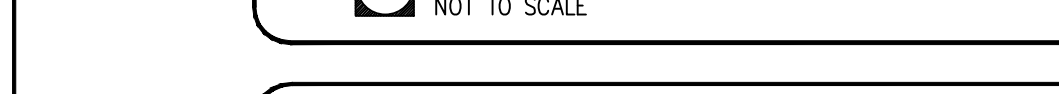
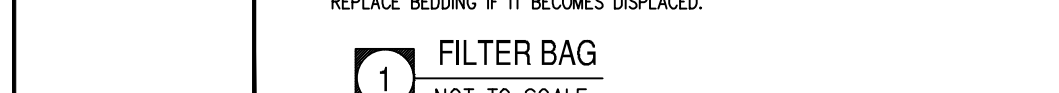
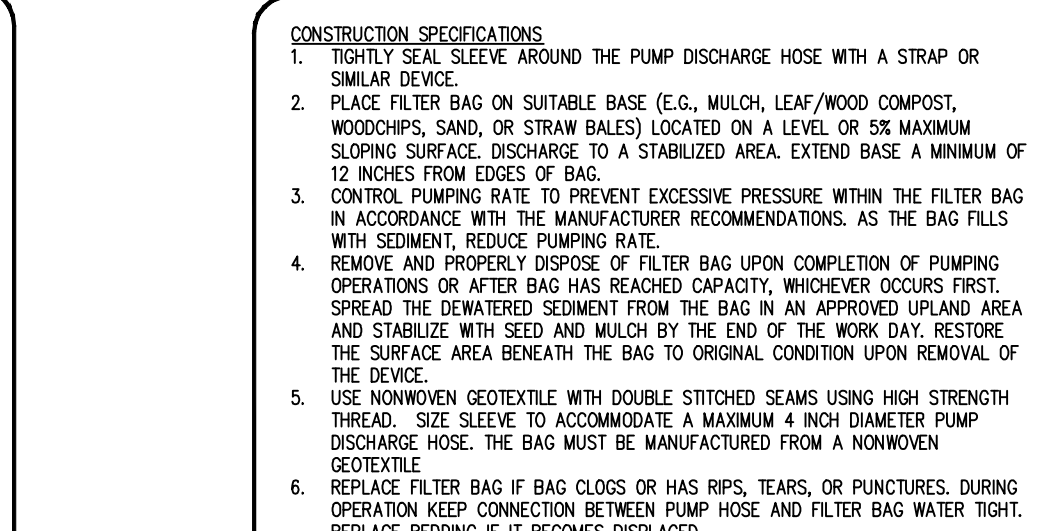
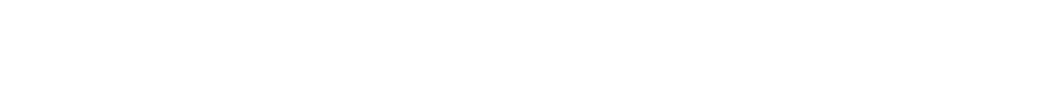
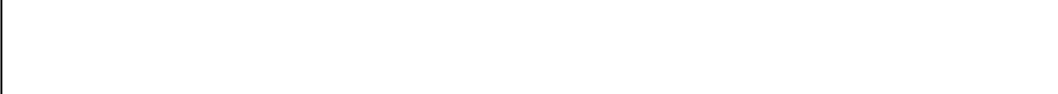
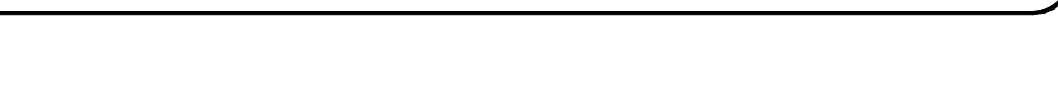
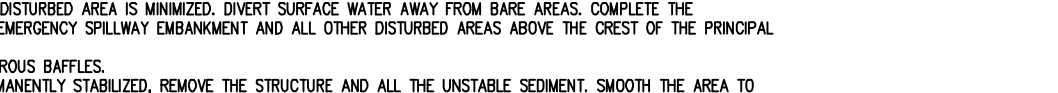
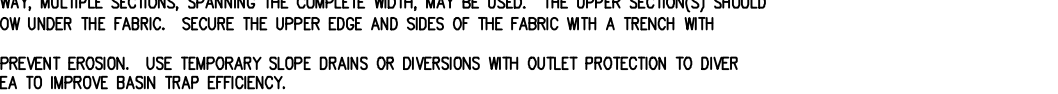
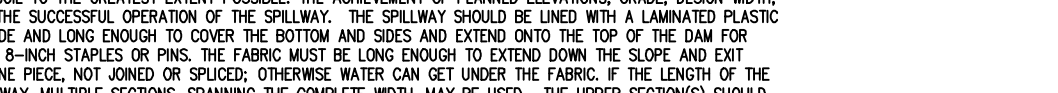
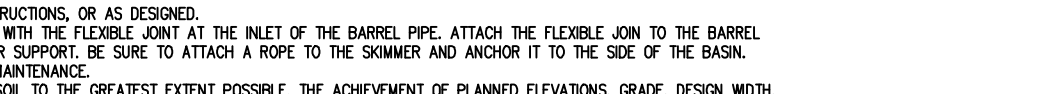
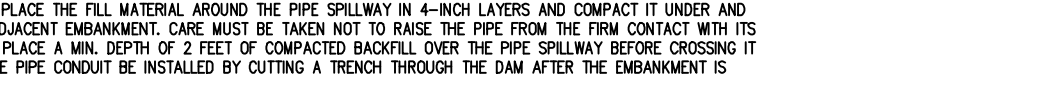
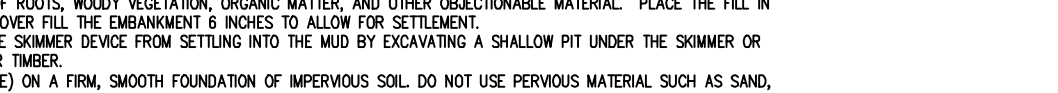
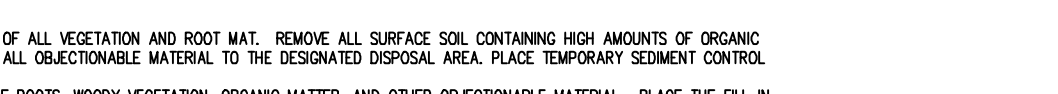
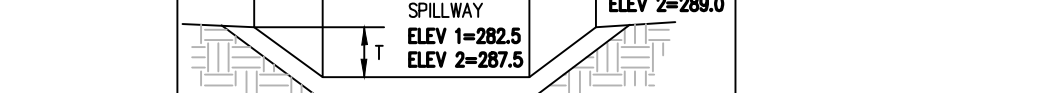
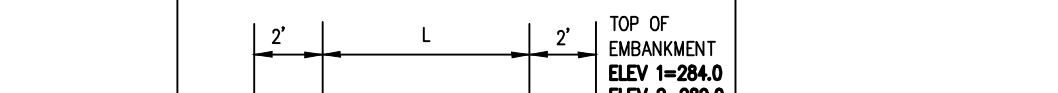
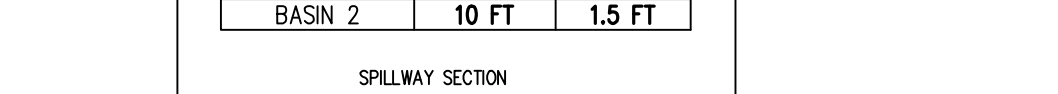
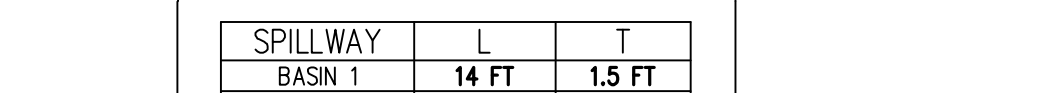
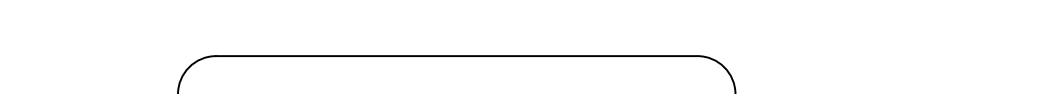
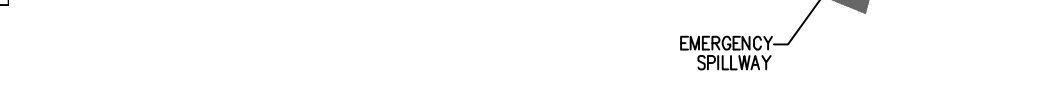
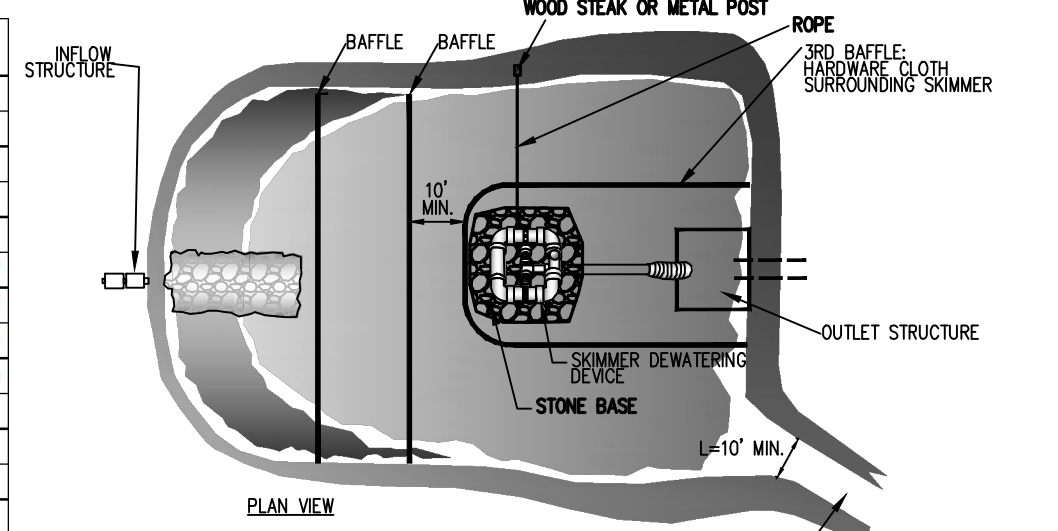
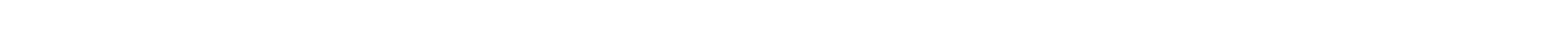
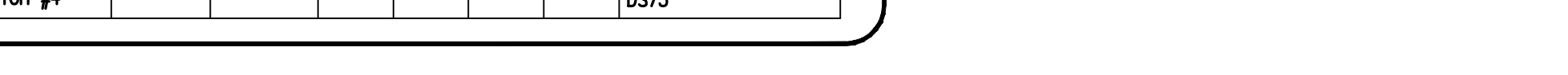
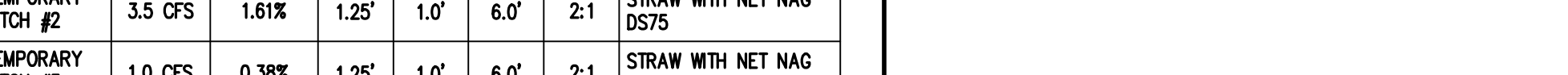
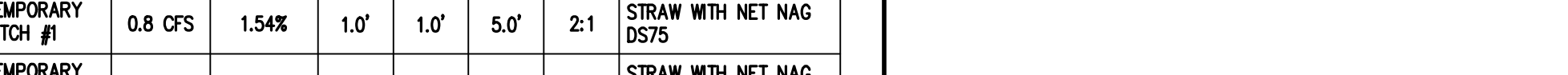
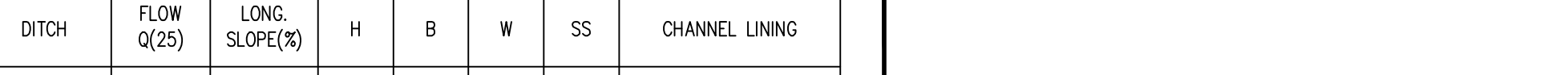
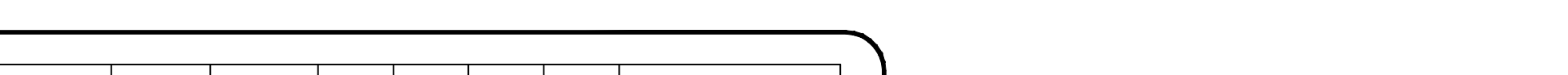
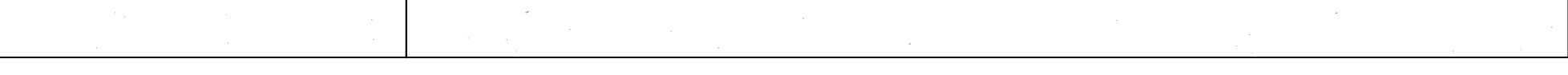
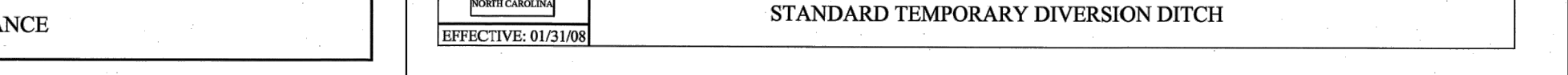
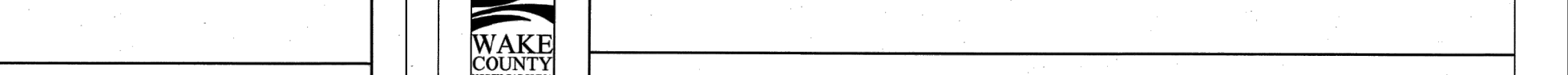
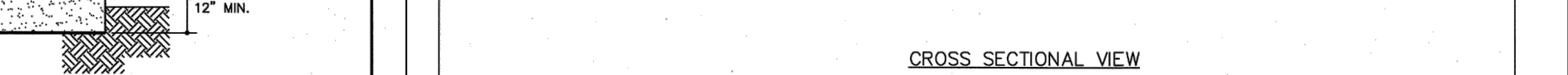
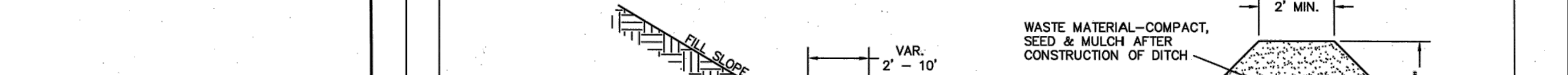
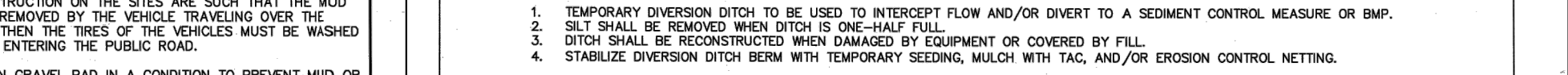
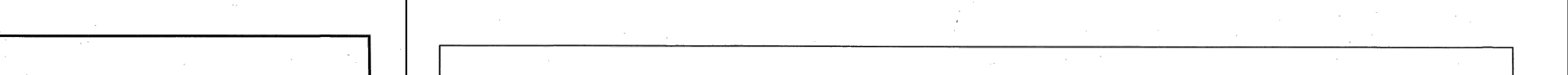
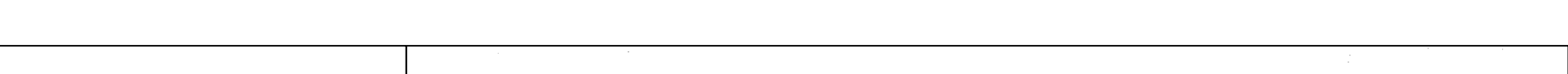
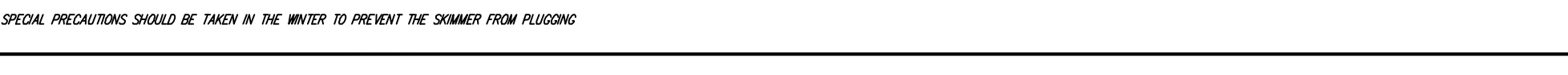
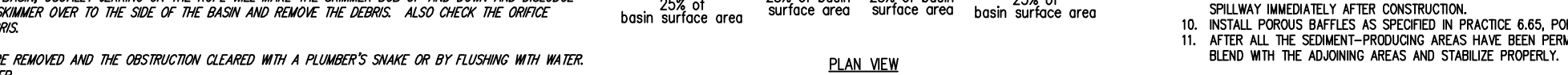
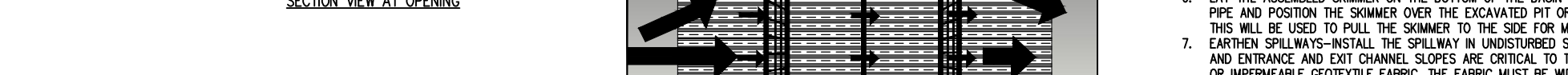
Skimmer Basin #1										Skimmer Basin #2									
SURFACE AREA REQUIRED	6.281			SF						SURFACE AREA REQUIRED	3.706			SF					
SURFACE AREA PROVIDED	6.384			SF						SURFACE AREA PROVIDED	3.800			SF					
VOLUME REQUIRED	7.200			CF						VOLUME REQUIRED	4.248			CF					
VOLUME PROVIDED	11.472			CF						VOLUME PROVIDED	6.584			CF					
STORAGE DEPTH	2.0			FT						STORAGE DEPTH	2.0			FT					
STORAGE ELEVATION	114	x	56	FT	282.00					STORAGE ELEVATION	95	x	40	FT	287.00				
TOP OF DAM	122	x	64	FT	284.00					TOP OF DAM	103	x	48	FT	289.00				
EMGY. SPILLWAY LENGTH	14	FT		FT	282.50					EMGY. SPILLWAY LENGTH	10	FT		FT	287.50				
BOTTOM OF BASIN	106	x	48	FT	280.00					BOTTOM OF BASIN	87	x	32	FT	285.00				
SKIMMER SIZE	2.5			IN						SKIMMER SIZE	2.0			IN					
SKIMMER ORIFICE DIAMETER	2.0			IN						SKIMMER ORIFICE DIAMETER	0.8			IN					
SKIMMER ORIFICE RADIUS	1.0			IN						SKIMMER ORIFICE RADIUS	1.6			IN					
SIDESLOPES	2:1									SIDESLOPES	2:1								



DATA BLOCK									
BASIN	DRAINAGE AREA (ACRES)	DESIGNED (ACRES)	RISER	BARREL	ORIFICE (IN)	(FET)	(FET)	(FET)	CONCRETE ANCHOR
1	4.00	4.00	14.4	NA	NA	1.0	2.0	4.0	10
2	2.36	2.36	8.5	NA	NA	1.0	2.0	4.0	10

**NOTES:**  
1. Baffle material should be secured at the bottom and sides using staples or by trenching as for silt fence.  
2. Most of the sediment will accumulate in the 10' bay, which should be readily accessible for maintenance.  
3. Provide 5 baffles (two 10' and three 20' in length). Provide 5 baffles for drainage areas greater than 10 acres.  
4. Top of baffles should be 2 inches lower than the top of the berm.  
5. Inspect baffles for repair once a week and after each rainfall.

**CONSTRUCTION SPECIFICATIONS:**  
1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STORING OR DISPOSE OF IT PROPERLY. Haul all objectionable material to the designated disposal area. Place temporary sediment control measures below basin as needed.  
2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 8 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.  
3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SUMMER DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SUMMER OR PROVIDING A LOW SUPPORT UNDER THE SUMMER OF STONE OR TIMBER.  
4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HANDLES. PLACE A MIN. DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.  
5. ASSEMBLE THE SUMMER FOLLOWING THE MANUFACTURER'S INSTRUCTIONS, OR AS DESIGNED.  
6. LAY THE ASSEMBLED SUMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SUMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SUMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SUMMER TO THE SIDE FOR MAINTENANCE.  
7. FURTHER SPILLWAYS-INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE DESIGN, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH A LAMINATED PLASTIC OR IMPERVIOUS GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND INTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXTEND INTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED, OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTIONS SHOULD OVERLAP THE LOWER SECTIONS SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC WITH A TRENCH WITH STAPLES OR PINS.  
8. INFILTS- DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY.  
9. EROSION CONTROL-CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.  
10. INITIAL POROUS BARRIERS AS SPECIFIED IN PRACTICE 6.65, POROUS BARRIERS.  
11. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJACENT AREAS AND STABILIZE PROPERLY.



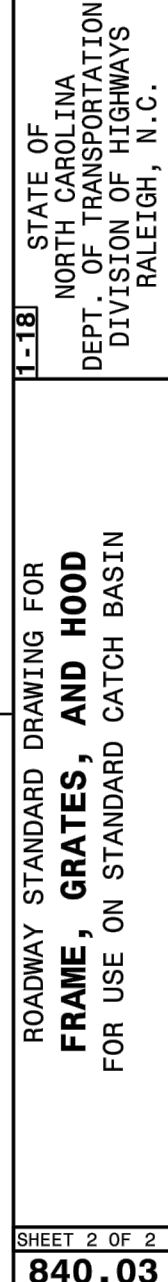
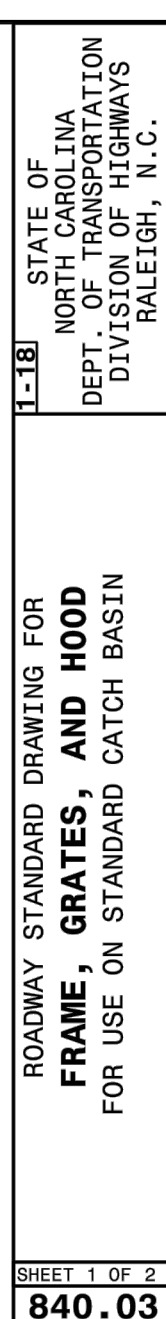











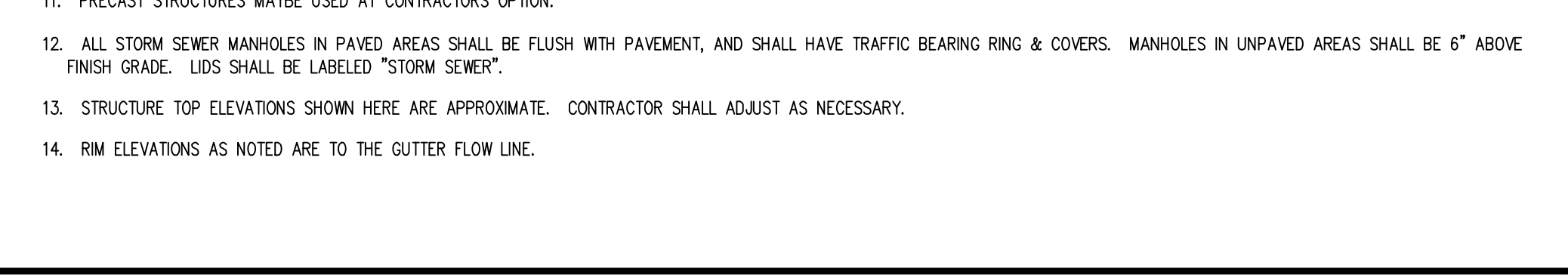
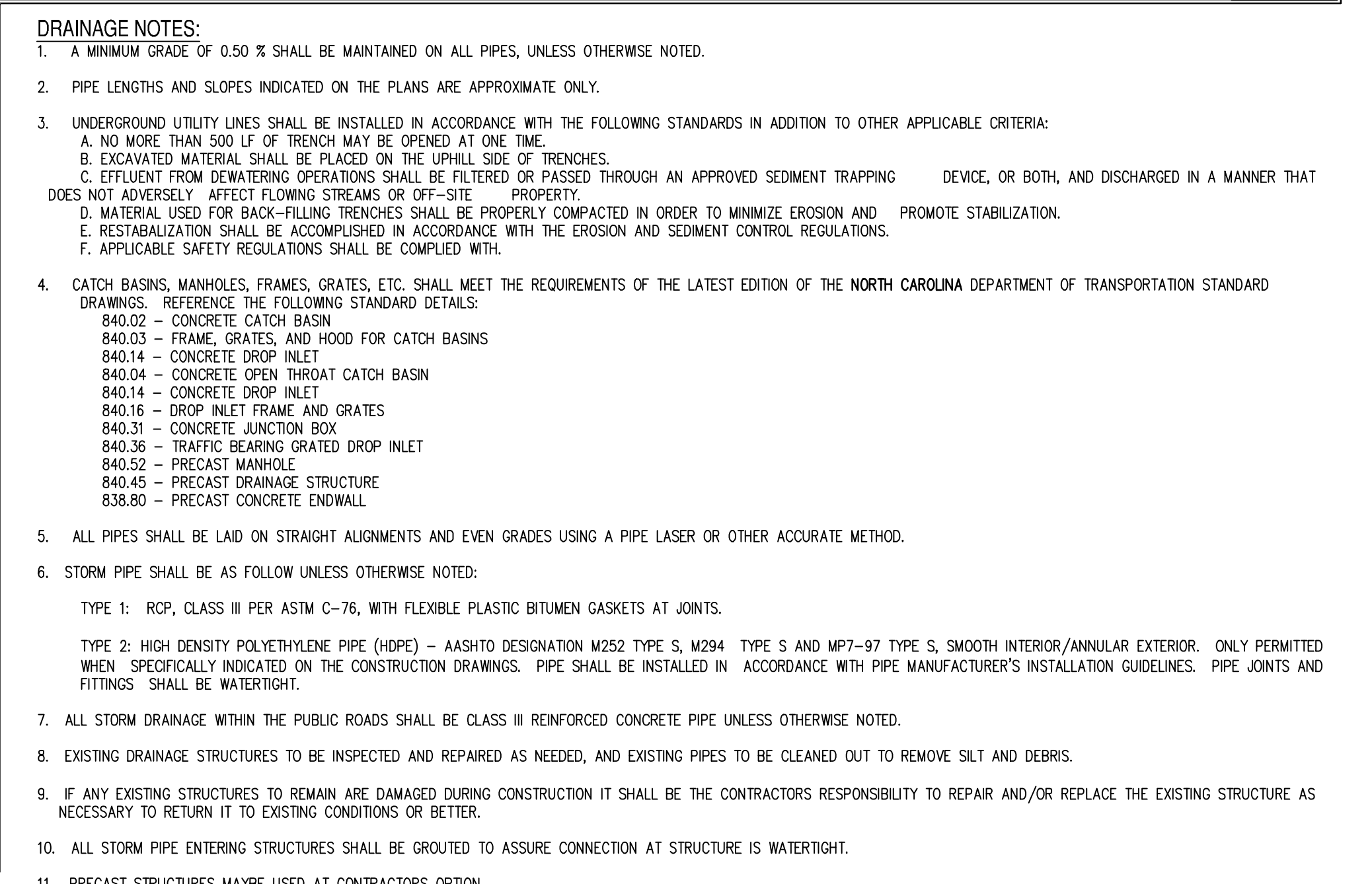
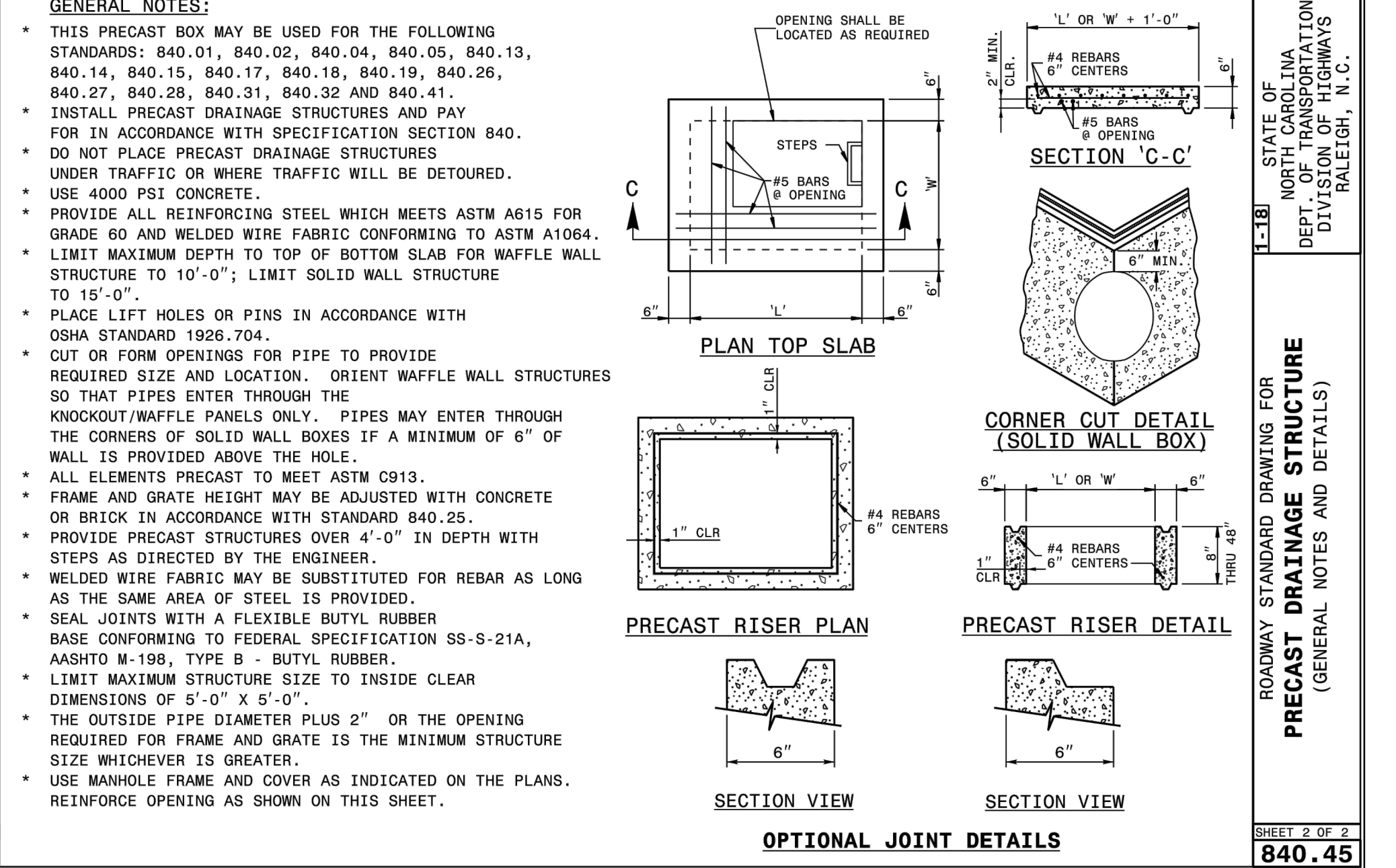
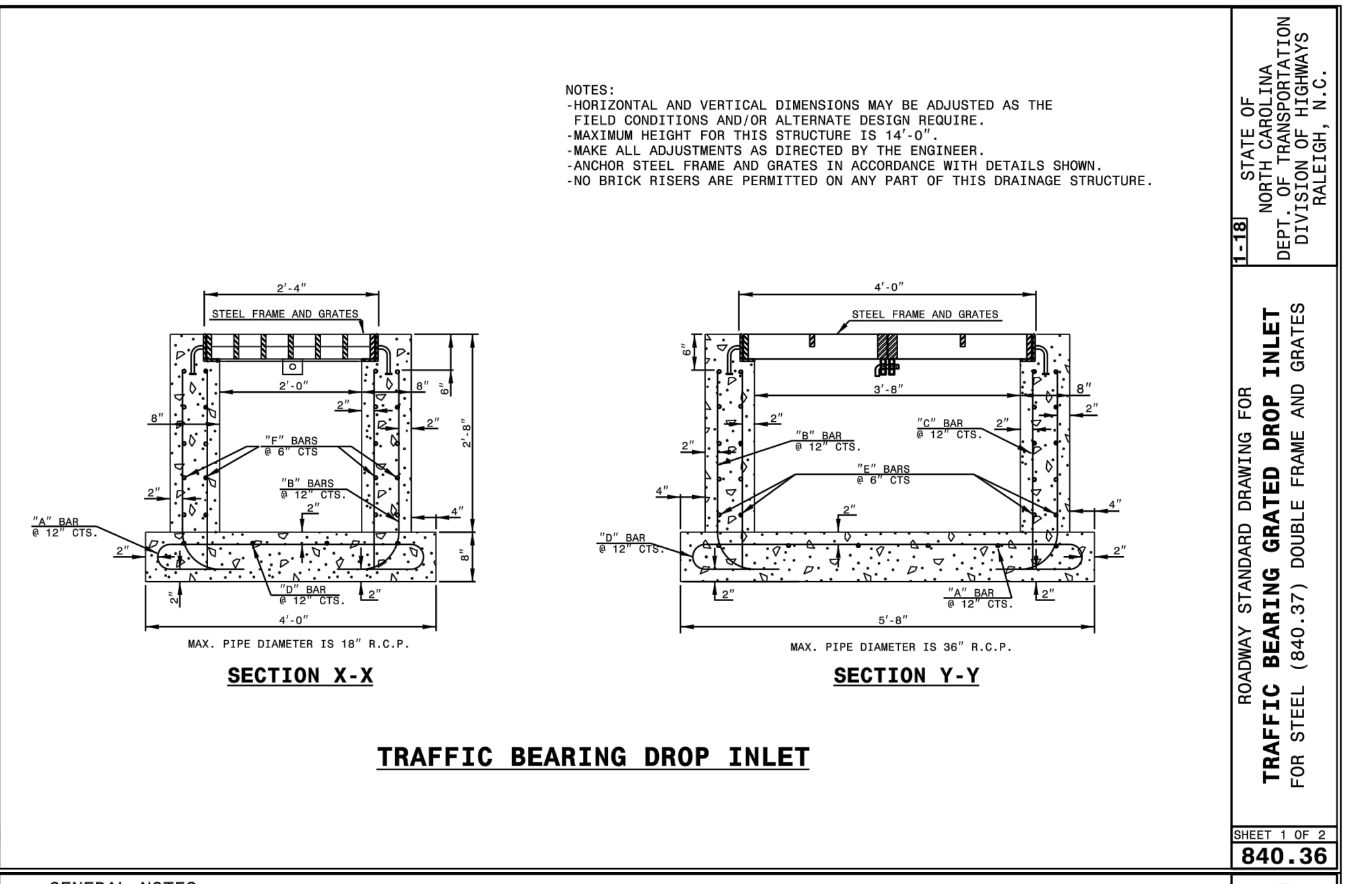
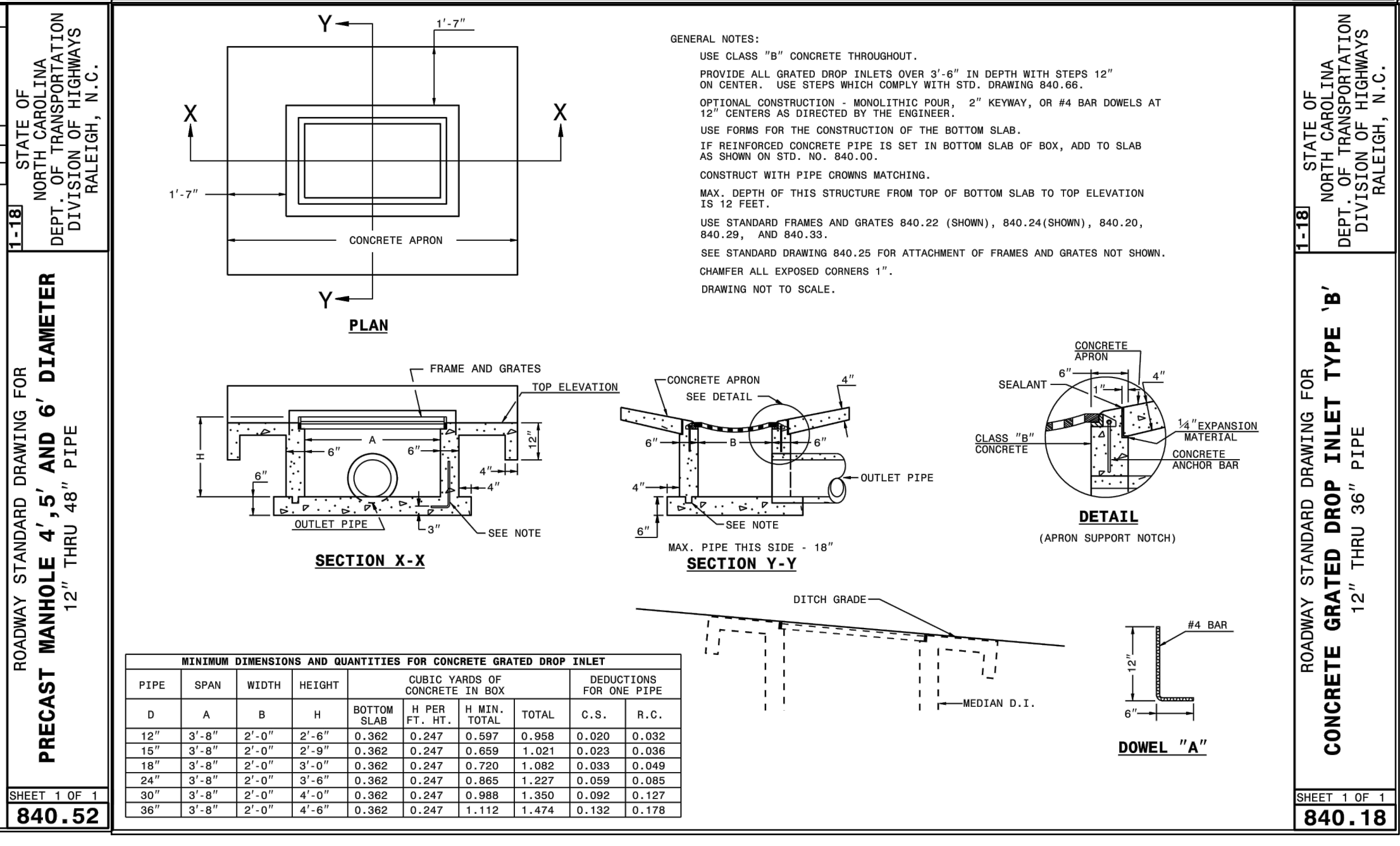
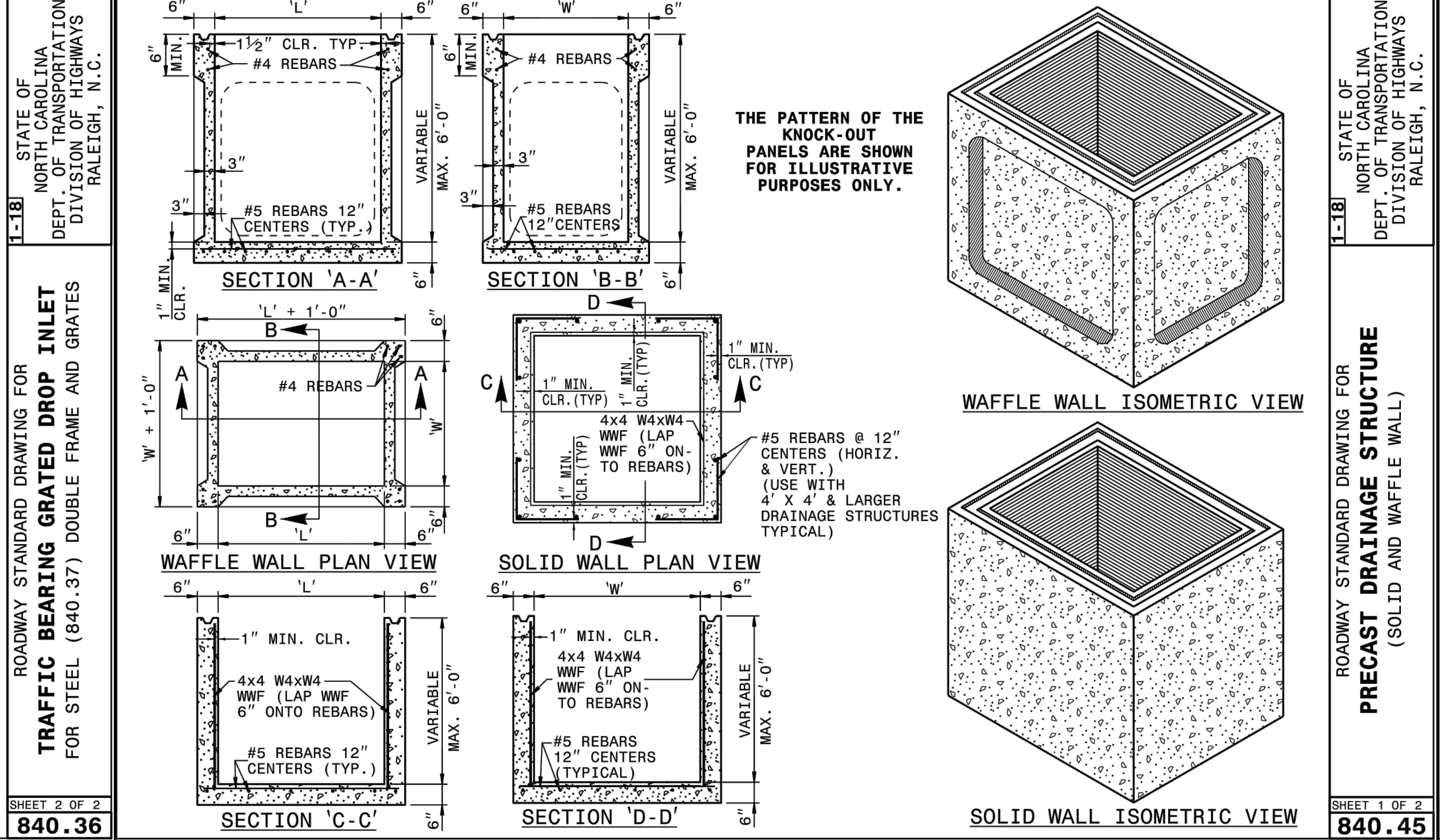
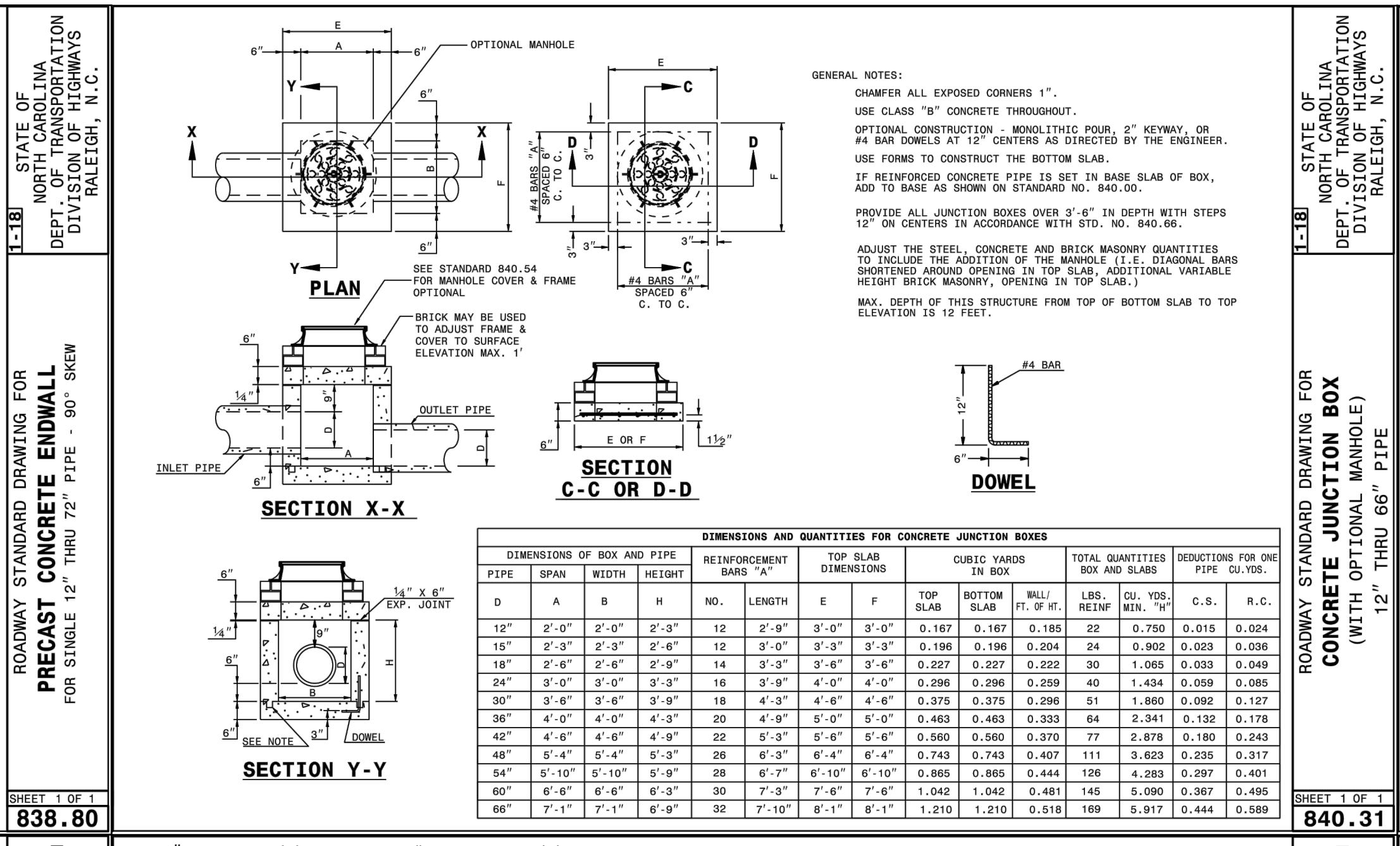
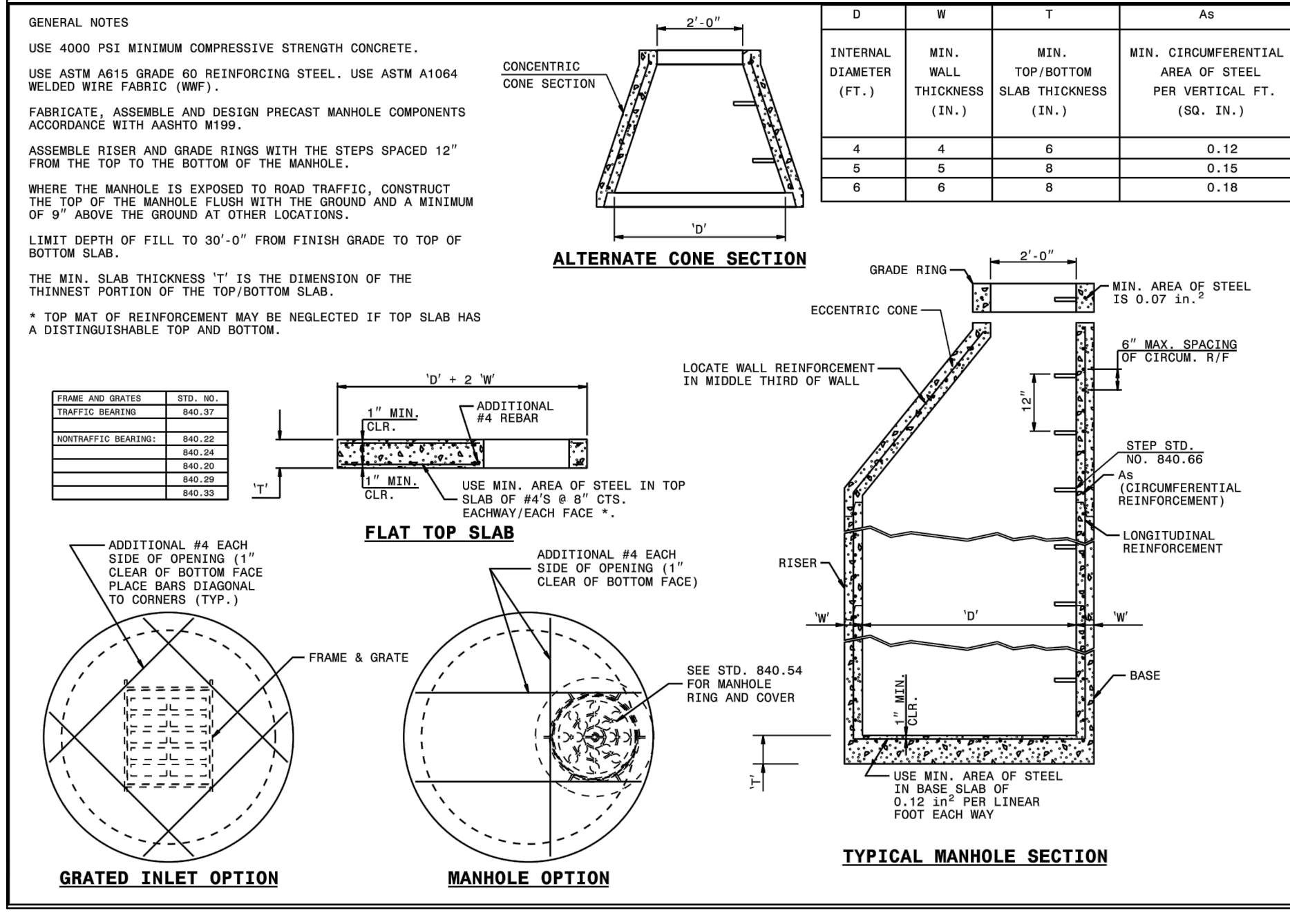
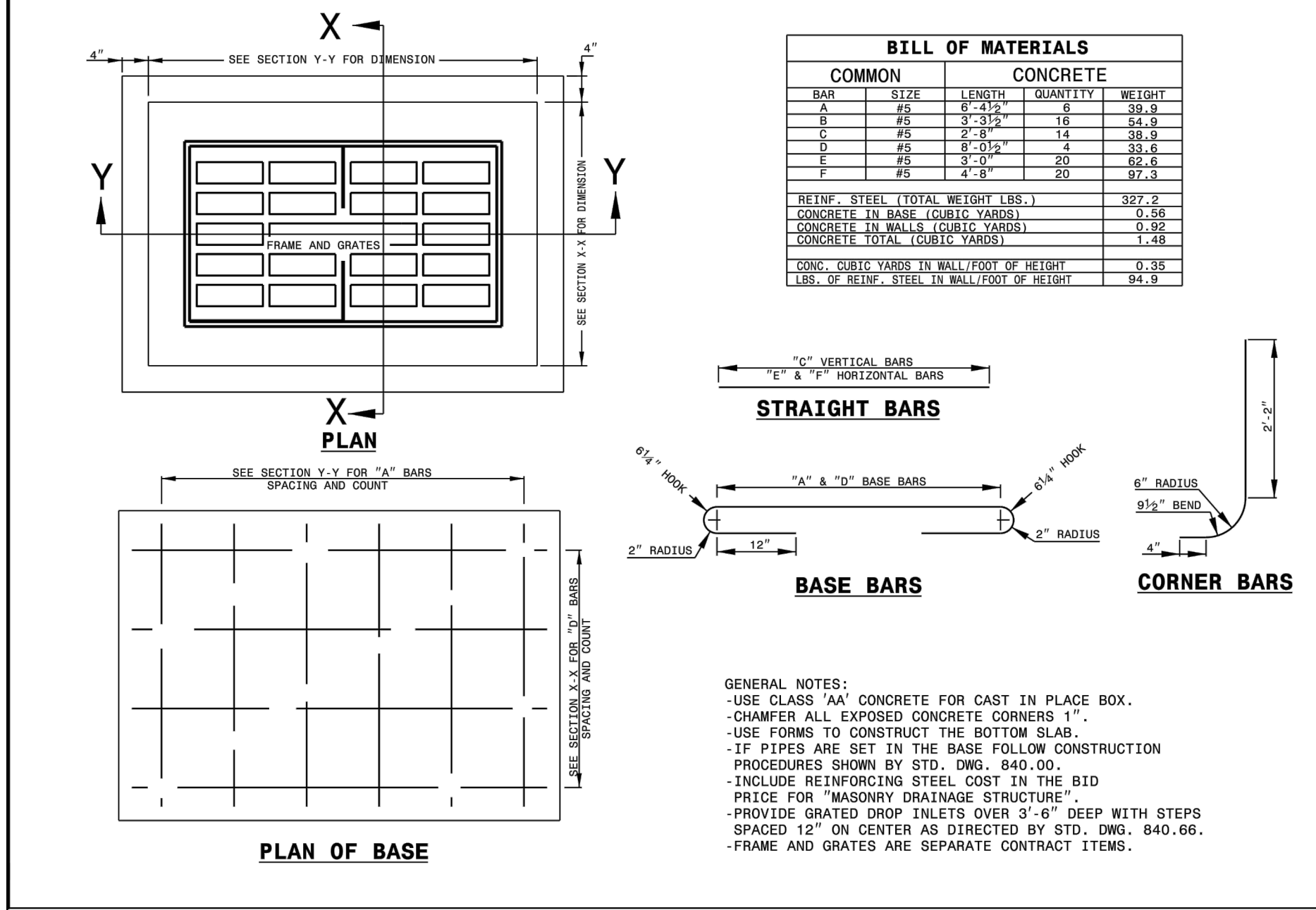
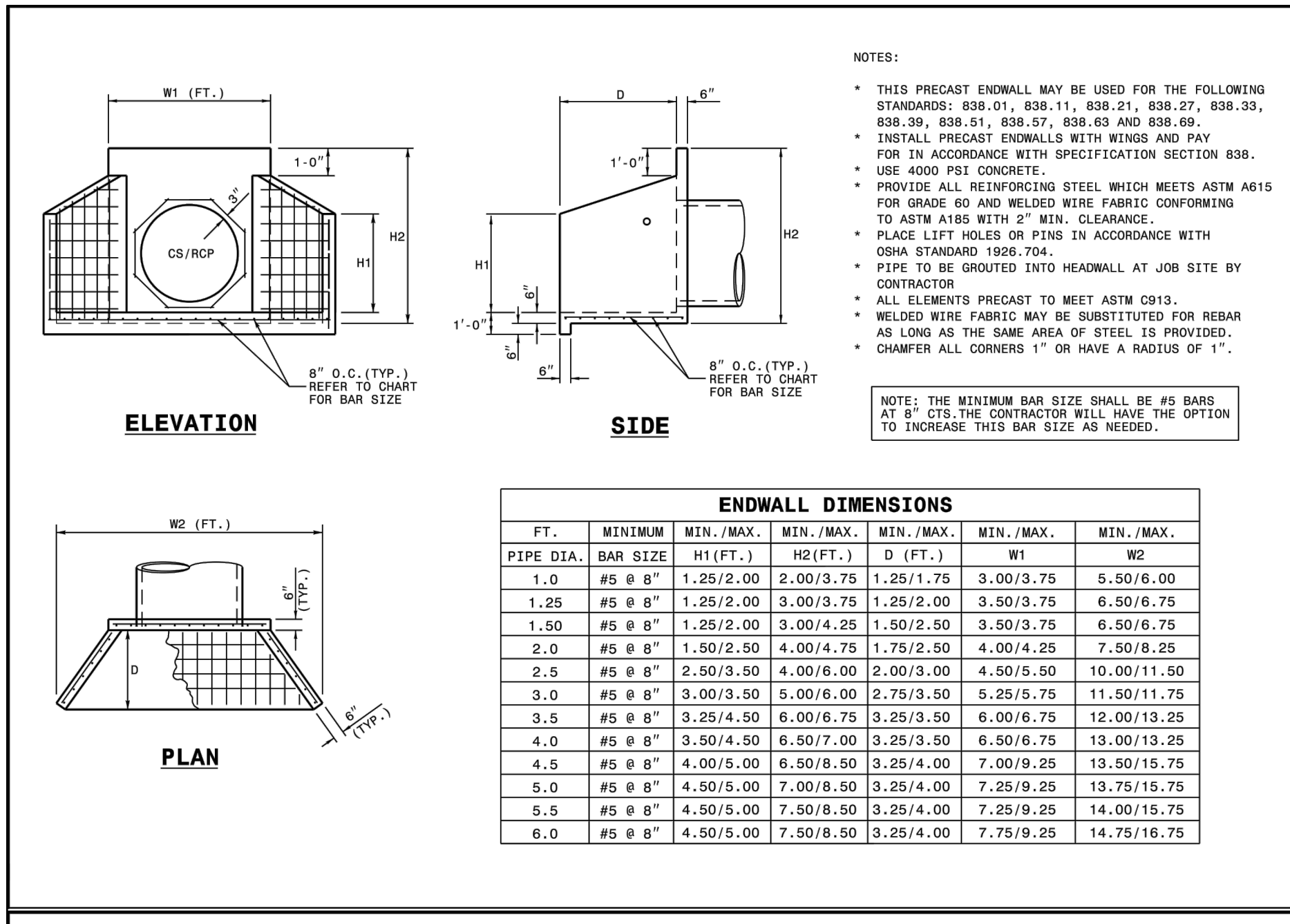


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PLAN STATUS		
/30/23	SEWER CROSSING AT RAILROAD	
/10/24	PER WAKE CO REVIEW	
/26/24	PER NCDOT REVIEW	
/28/24	PER CITY OF RALEIGH REVIEW	
MEL DESIGN	MEL DRAWN	XXX CHKD
SCALE      H: 1" = 40' V: 1" = XXX'		
NO.      220127-01-001		
DATE      May 28, 2024		
LE NO.      220127-D-CP-001		

C64





**Bowman**

Tractor Supply Company

Old US Highway 264

Zebulon, NC

Wake County

CONSTRUCTION DETAILS

PLAN STATUS

11/30/23 SEWER CROSSING AT RAILROAD

1/10/24 PER WAKE CO REVIEW

3/26/24 PER CITY OF RALEIGH REVIEW

5/28/24 PER CITY OF RALEIGH REVIEW

MEL DESIGN MEL DRAWN XXX CHKD

SCALE H: 1" = 40' V: 1" = XXX'

JOB No. 220127-01-001

DATE May 28, 2024

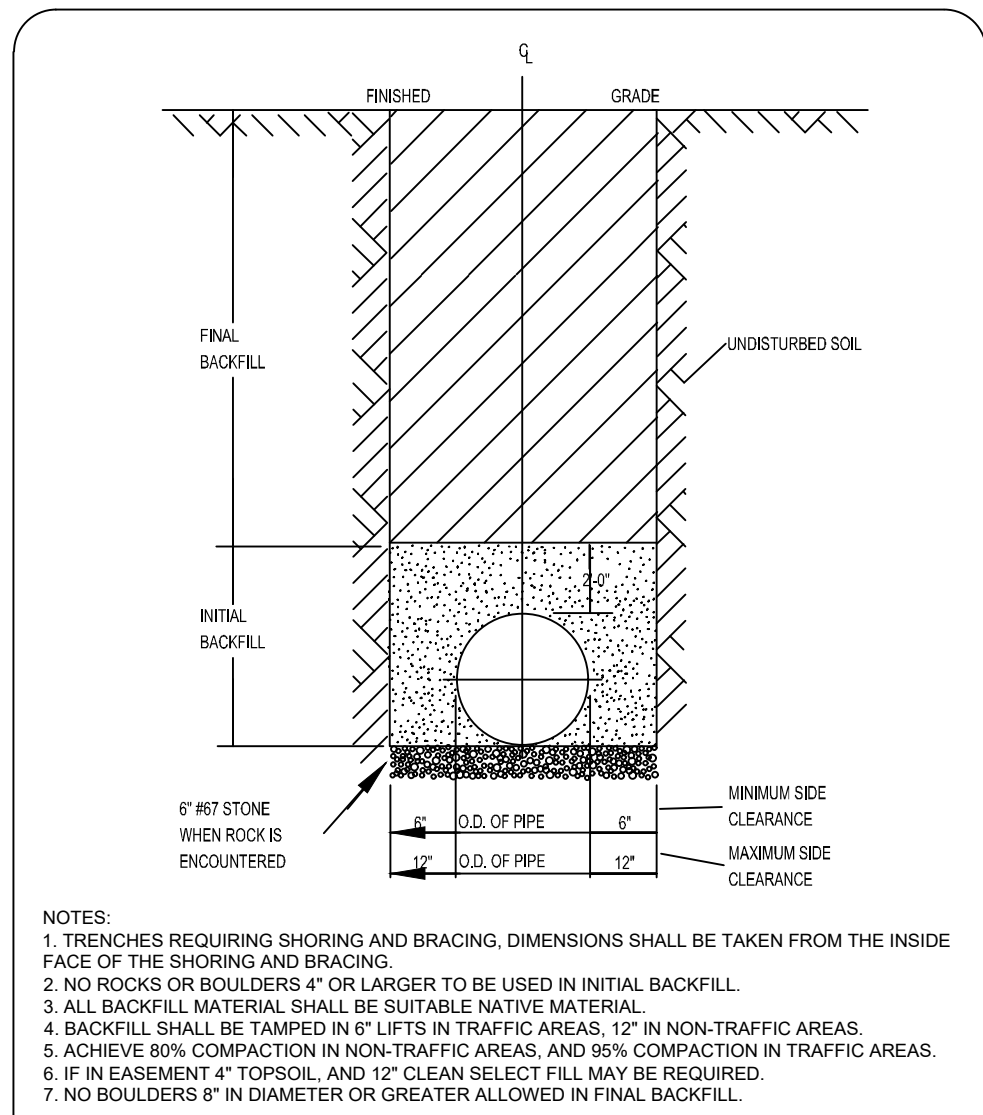
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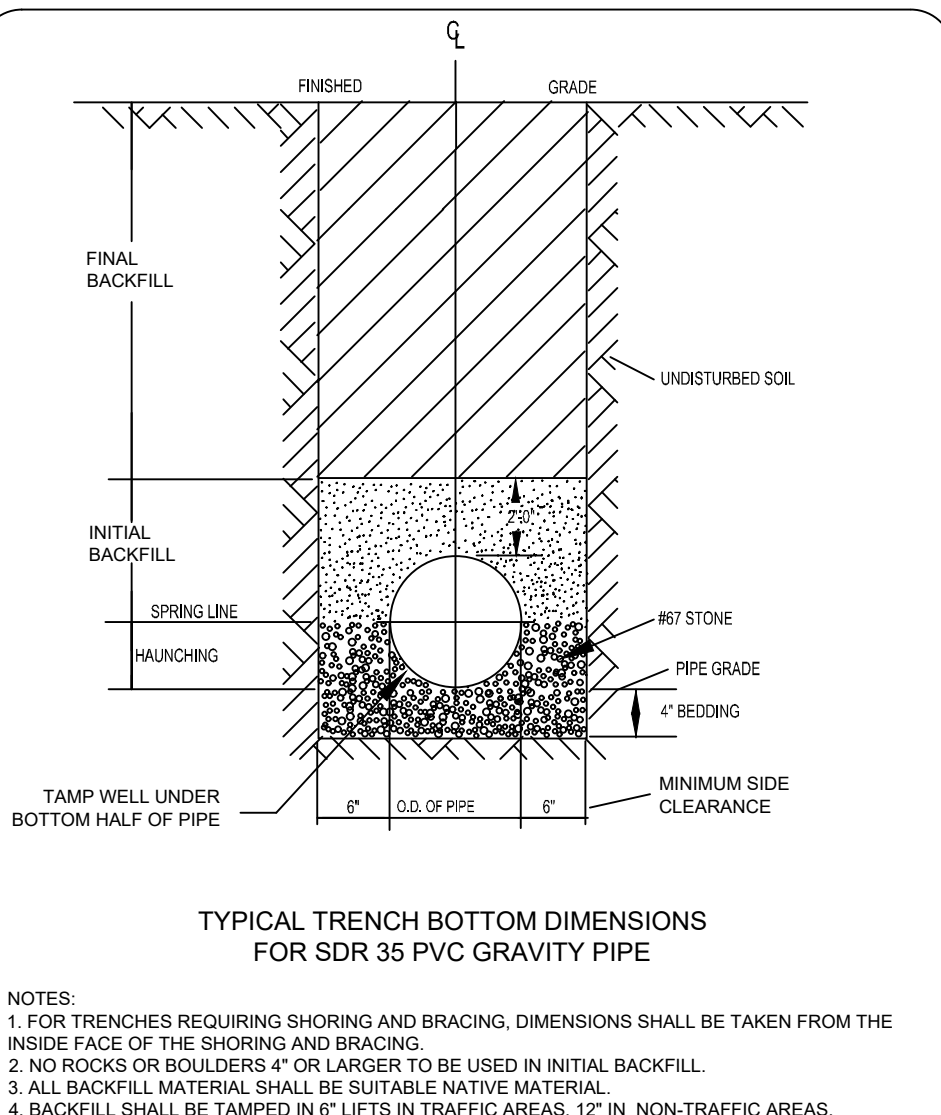




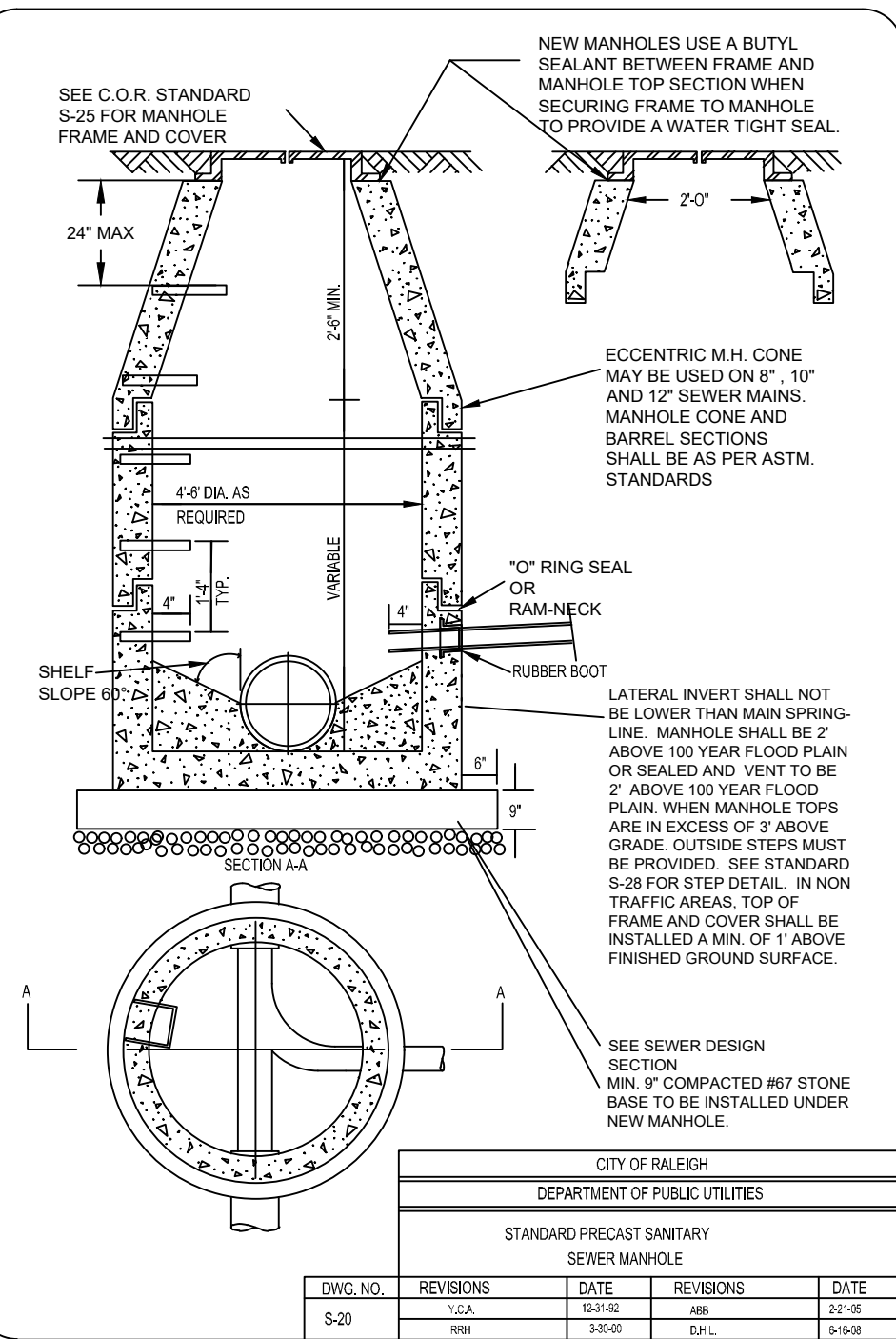




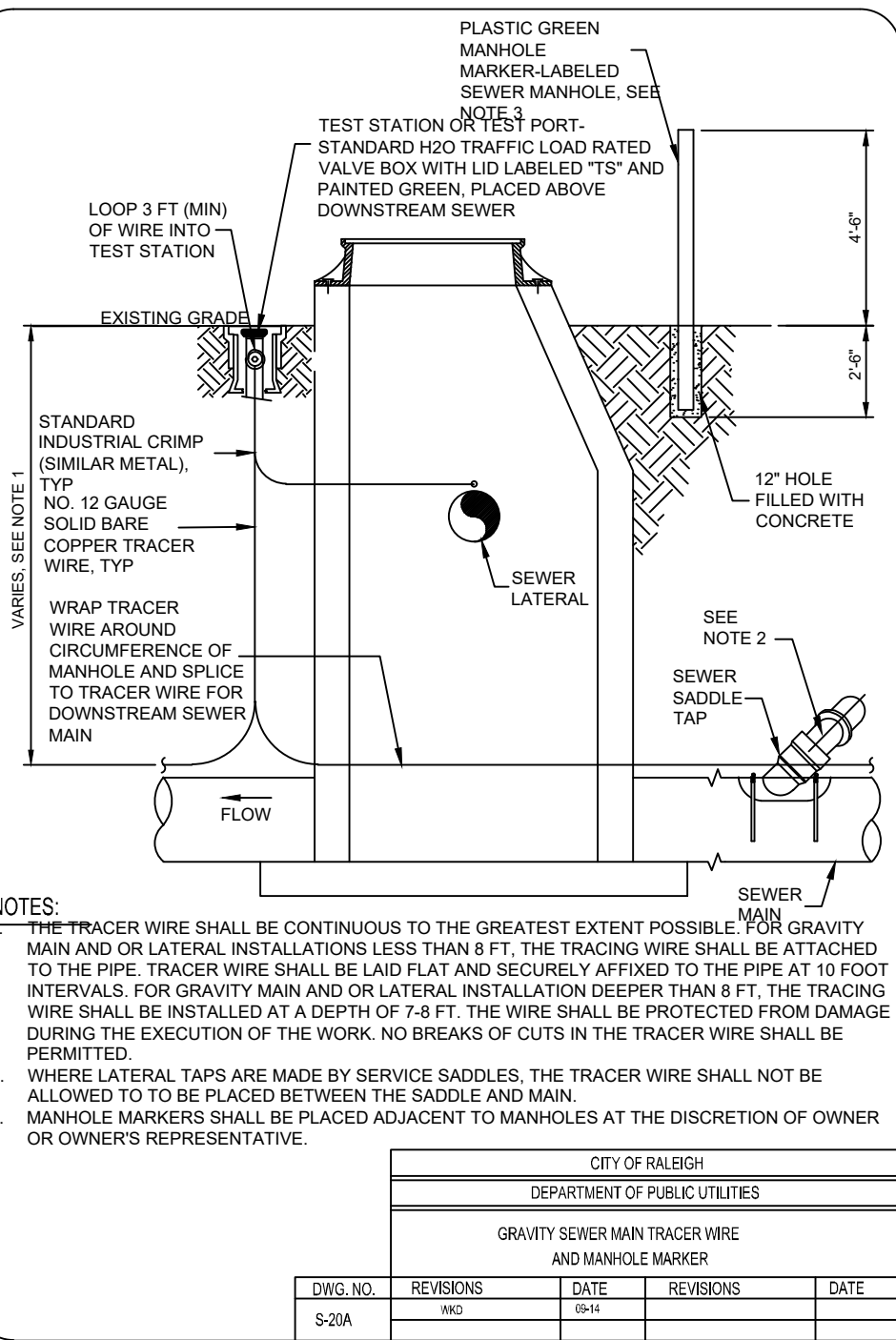
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S-4	REV. 1	3-30-00			



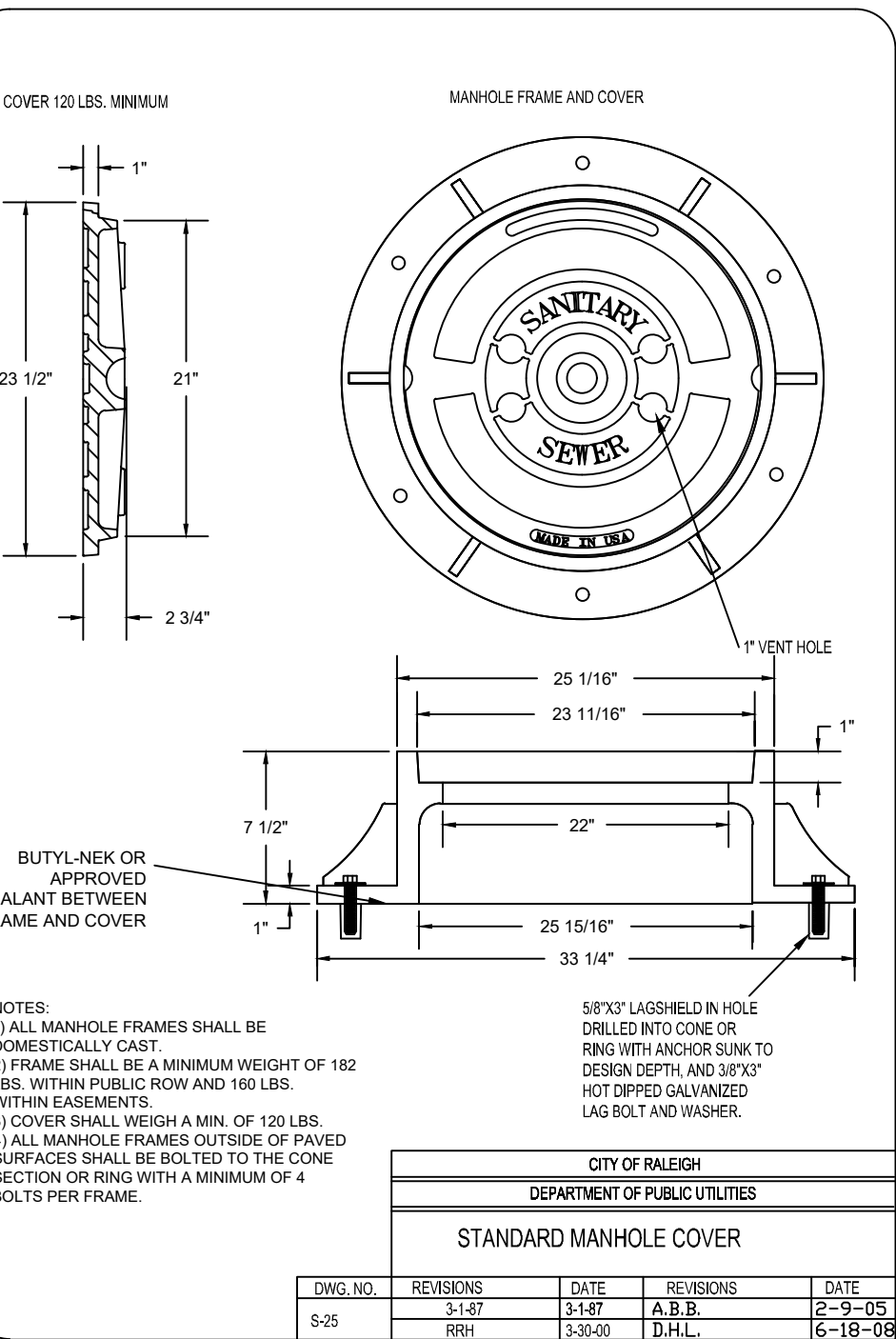
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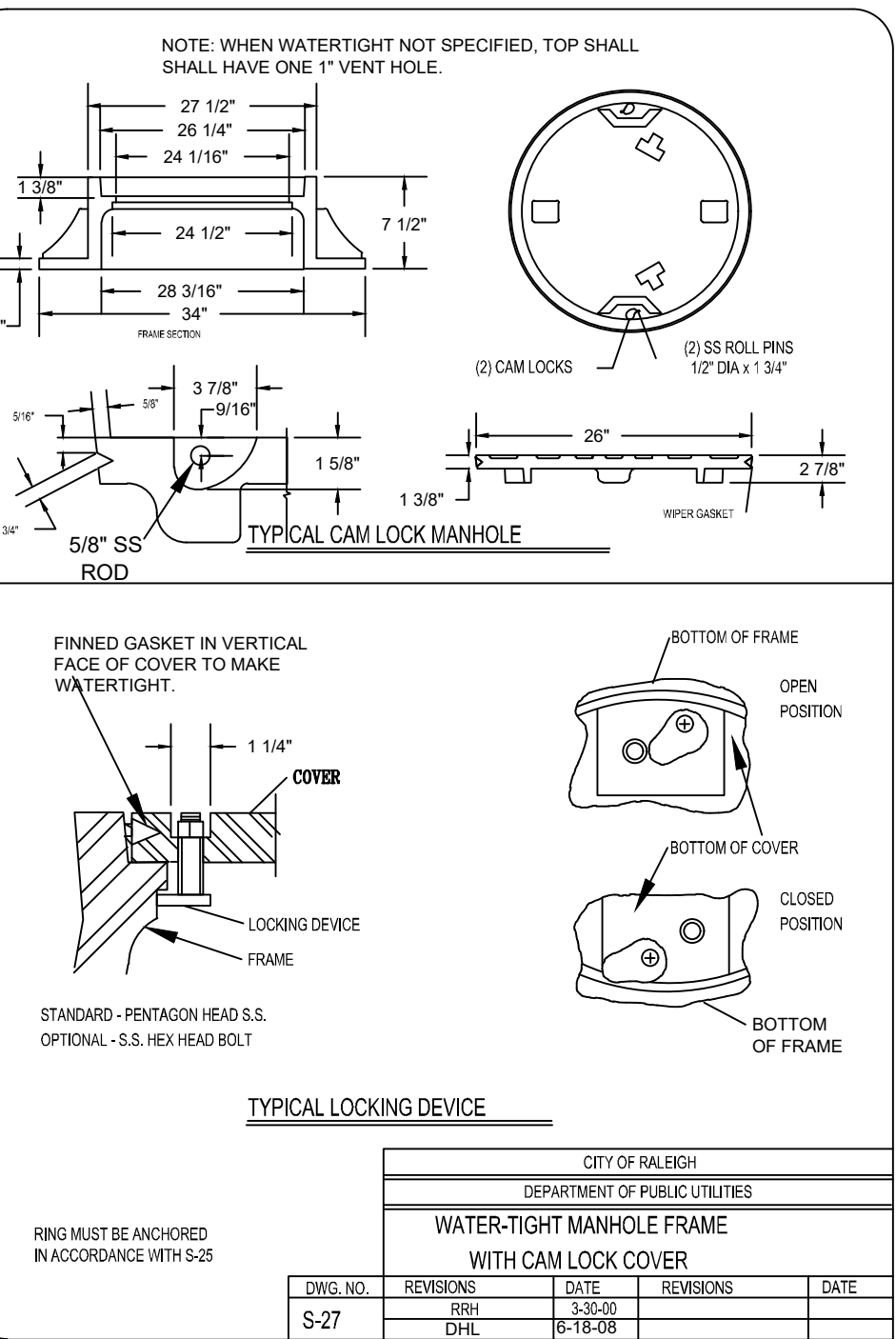
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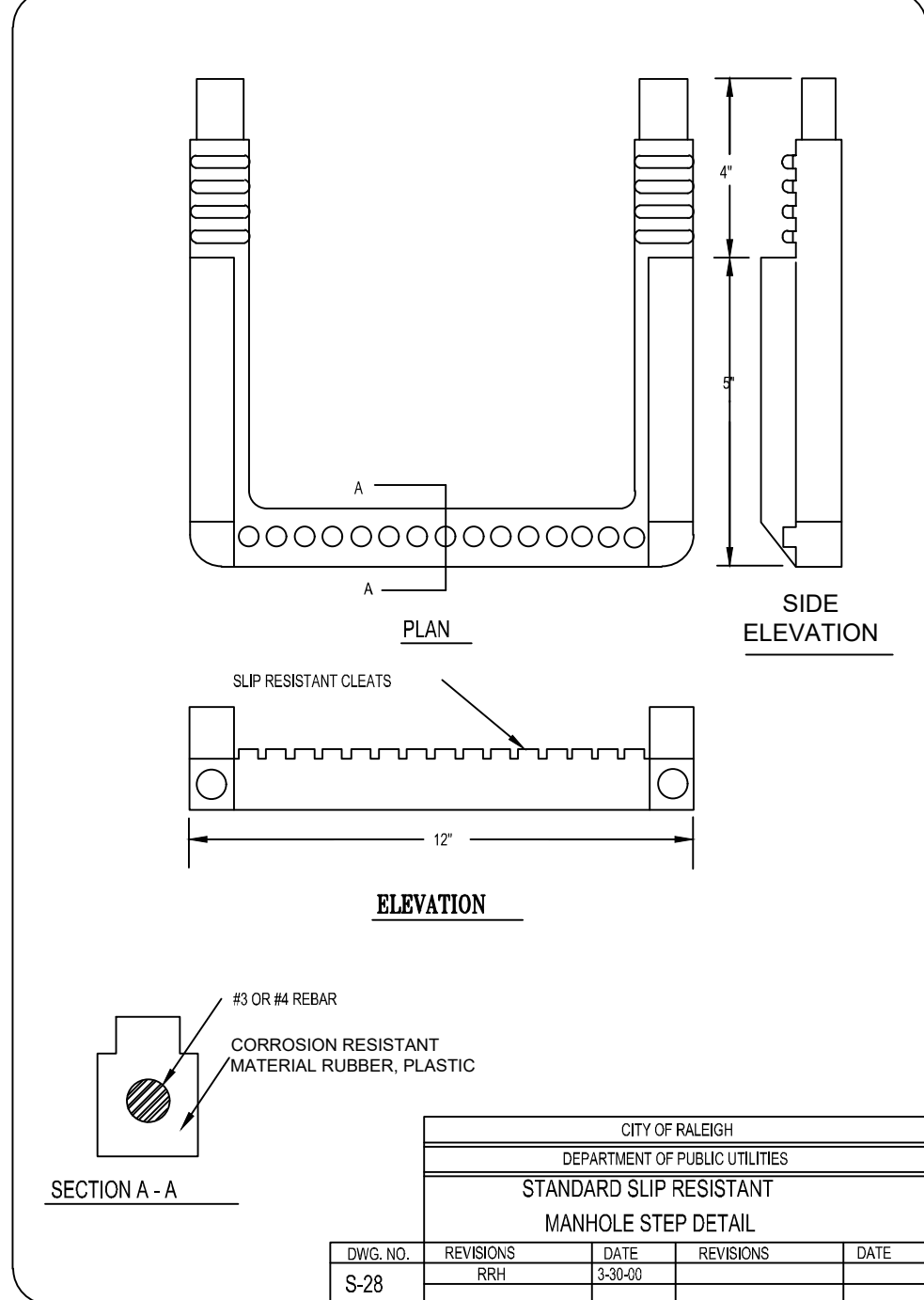
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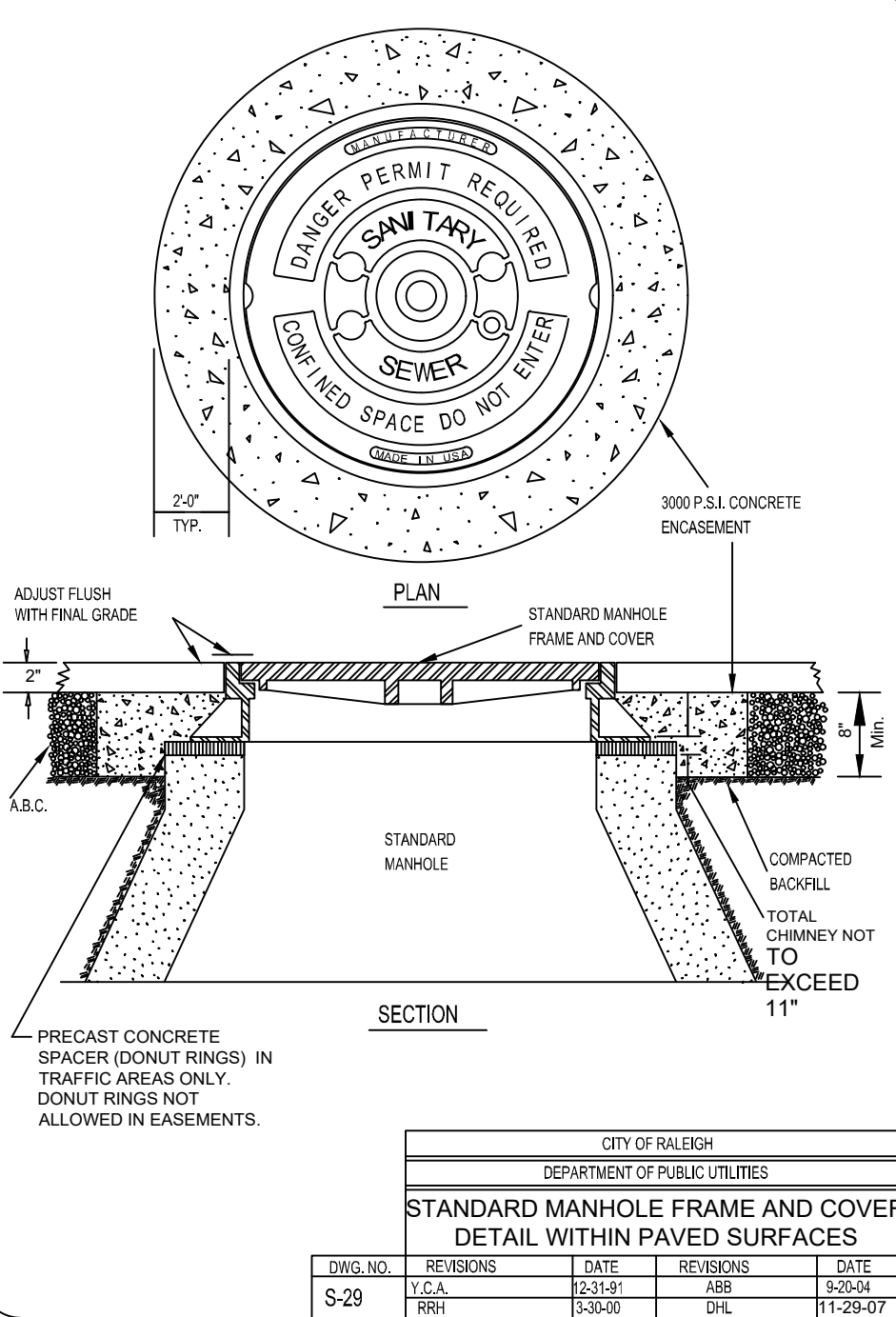
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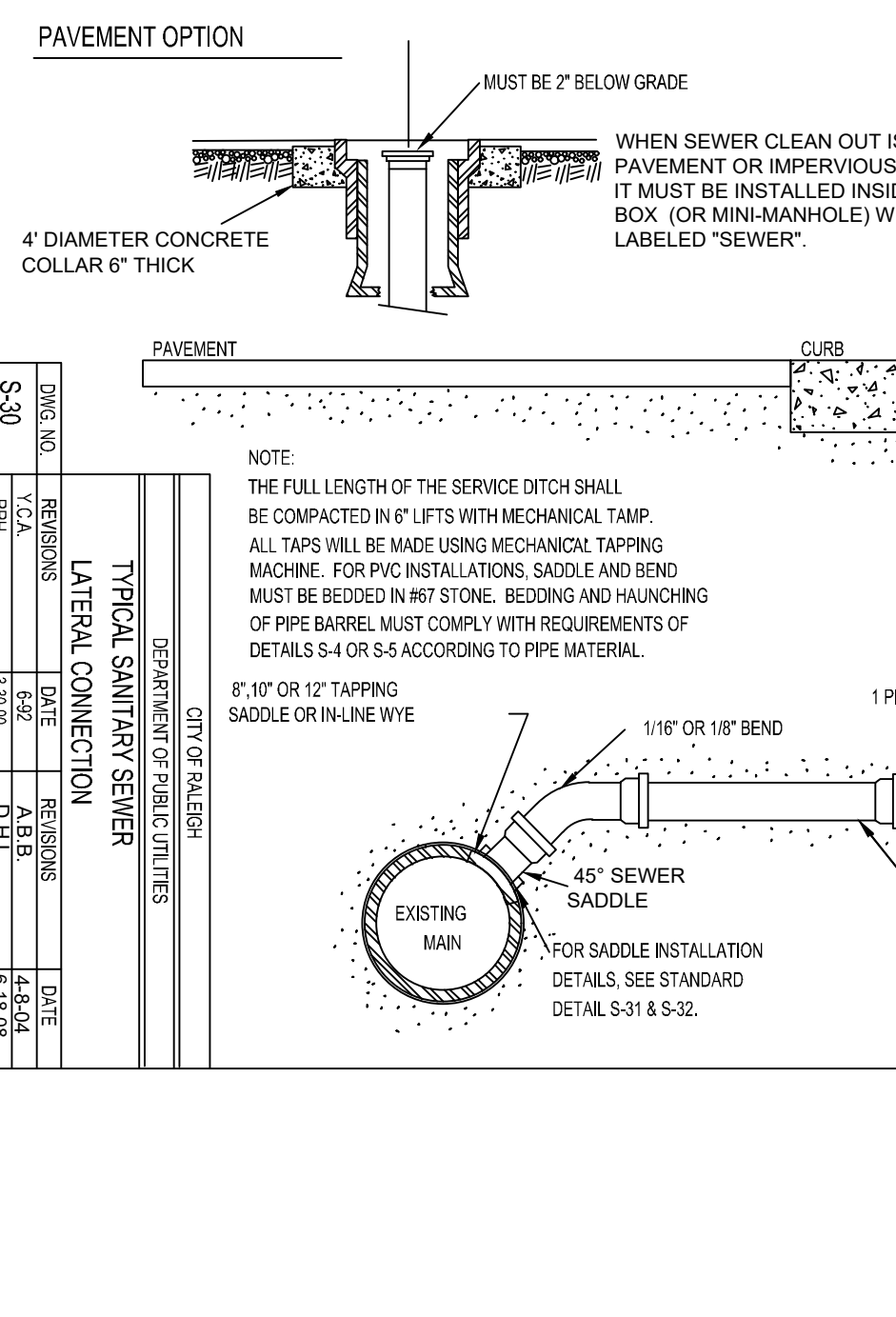
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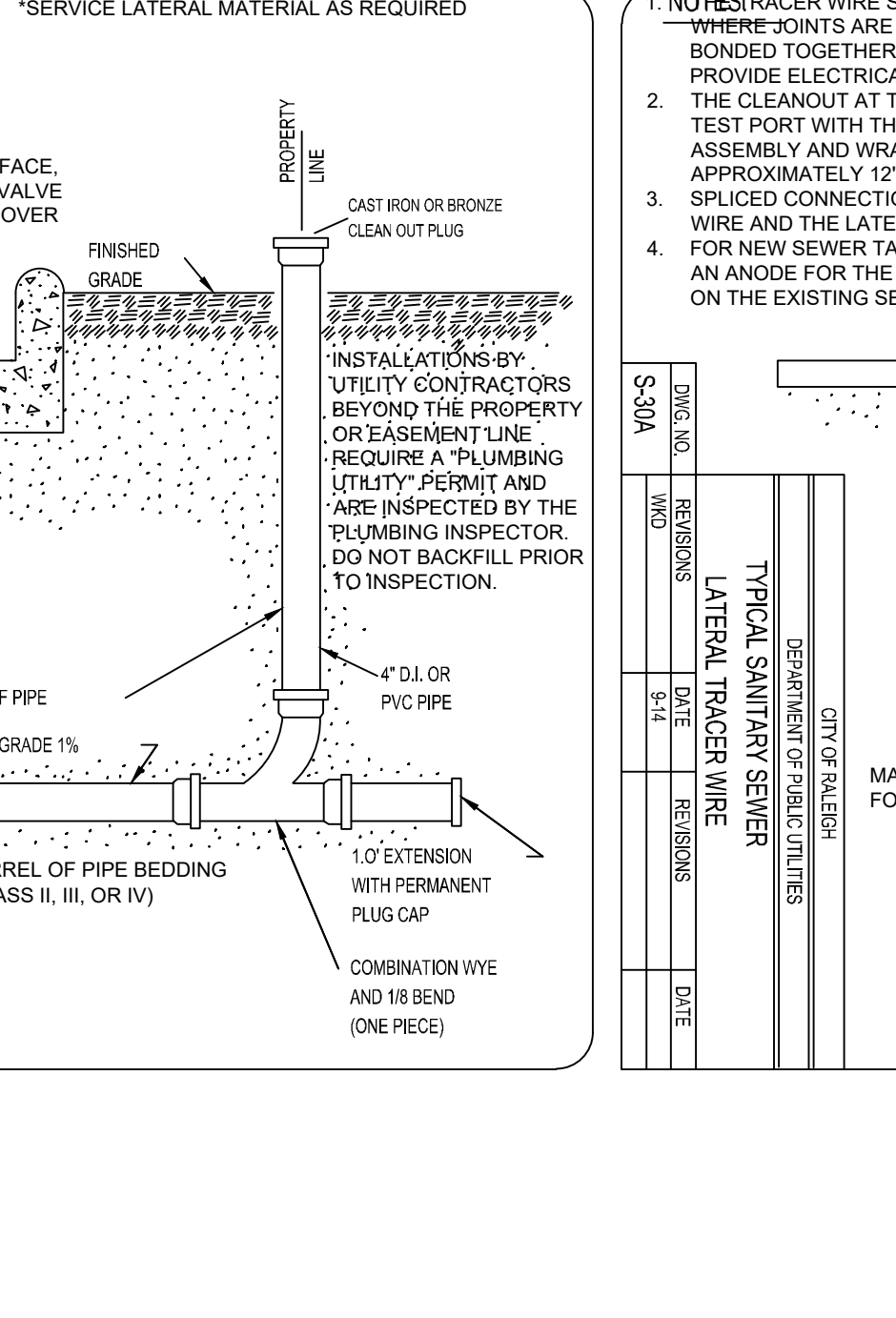
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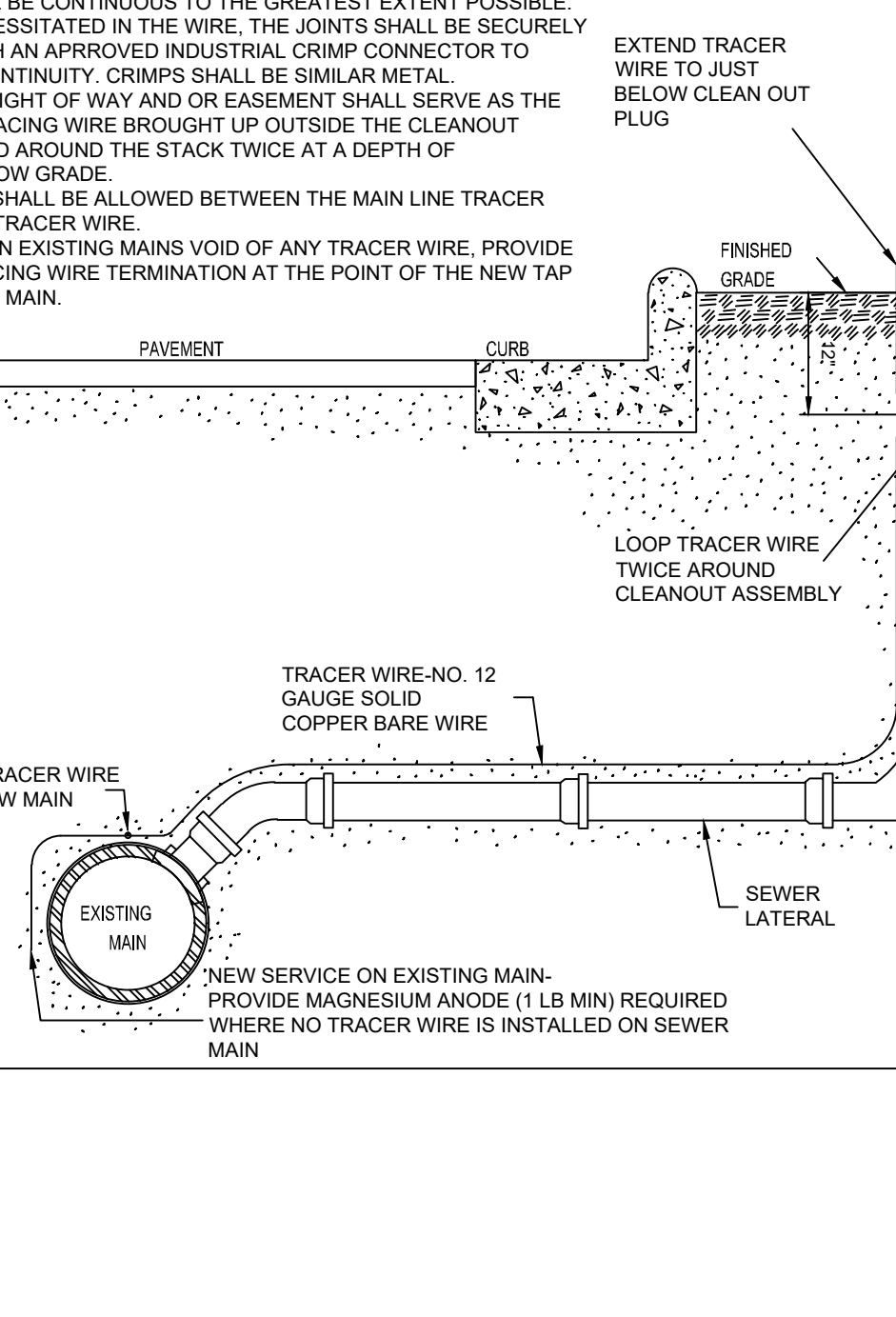
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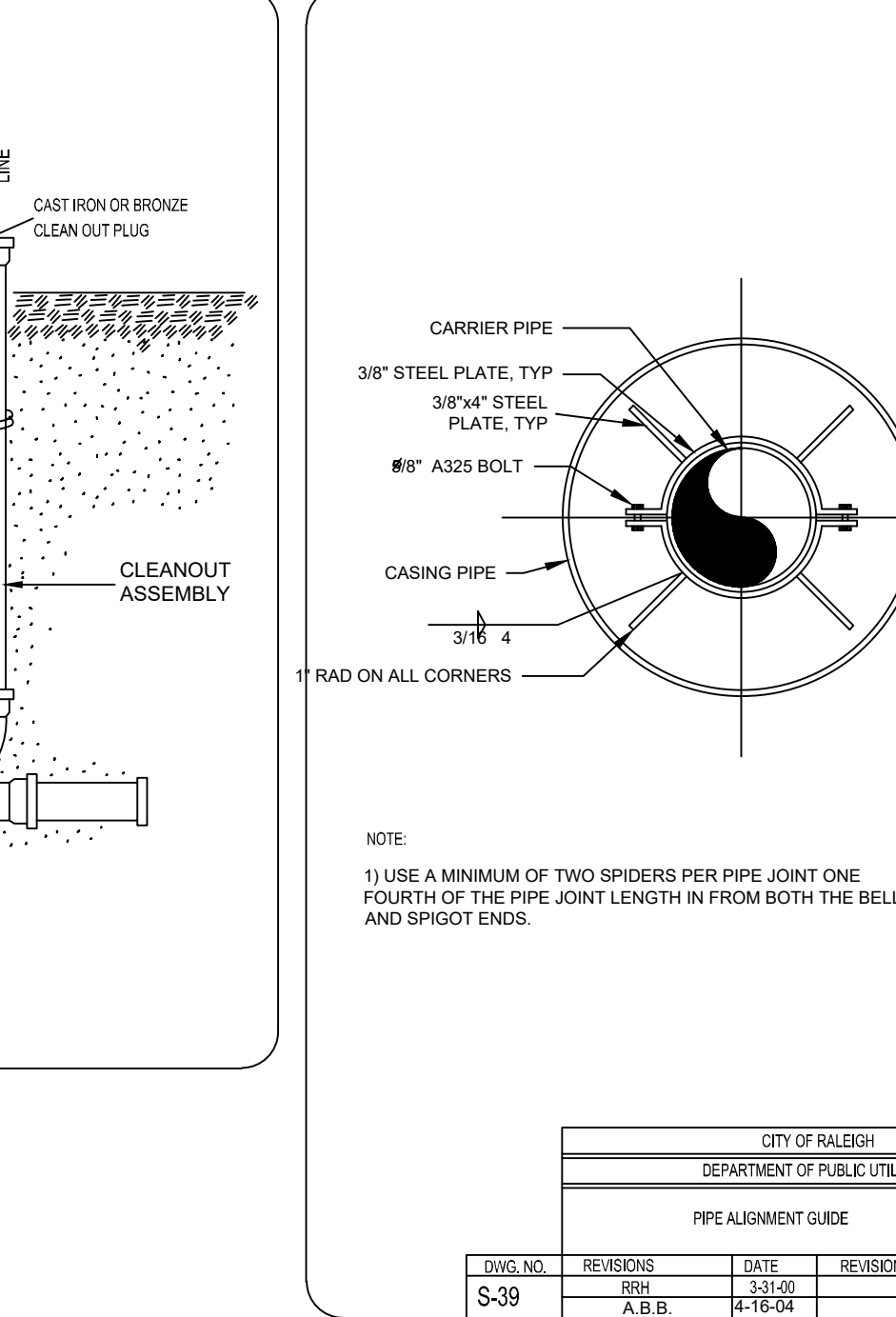
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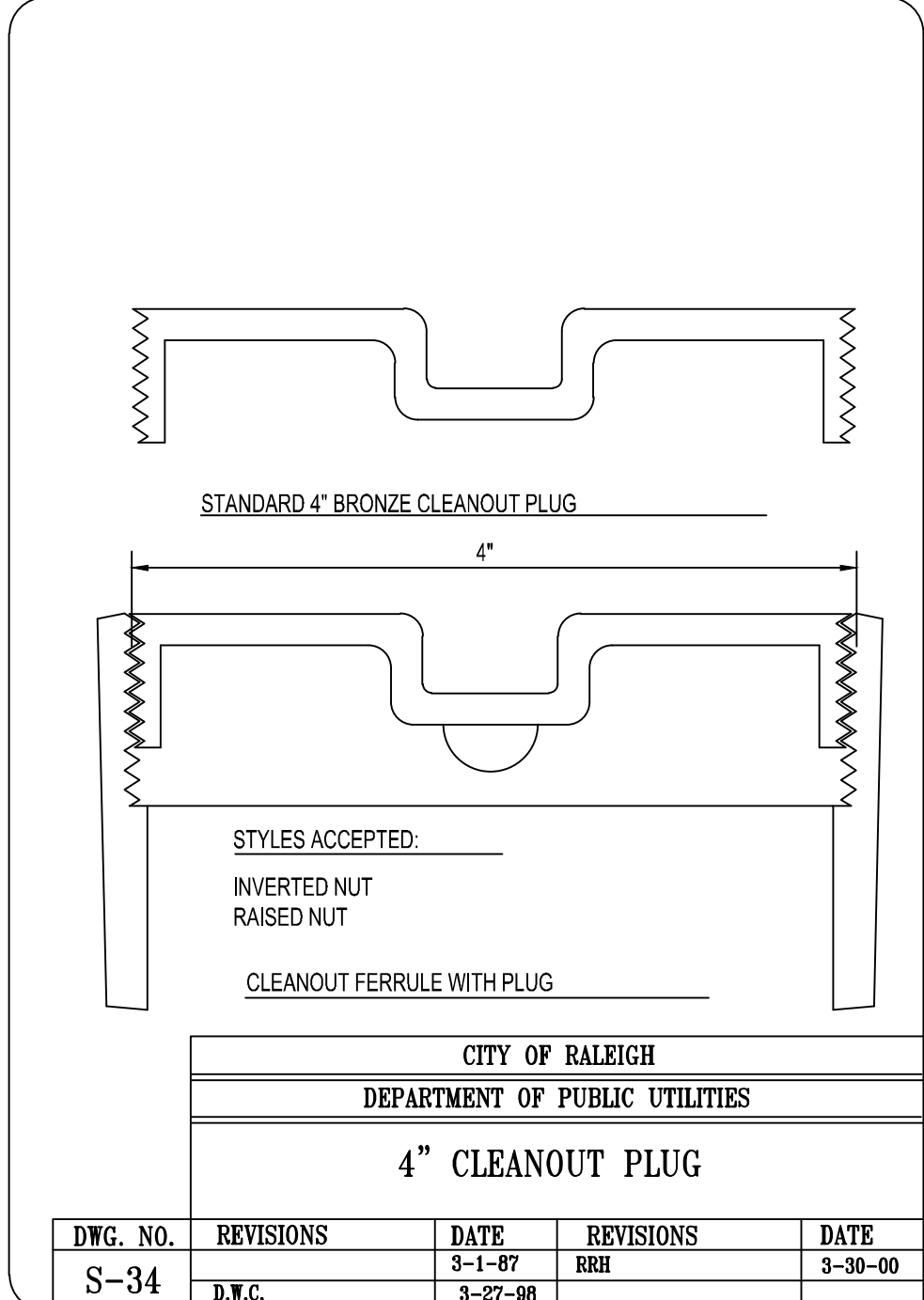
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STANDARD MANHOLE COVER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-32	REV. 1	3-30-00			



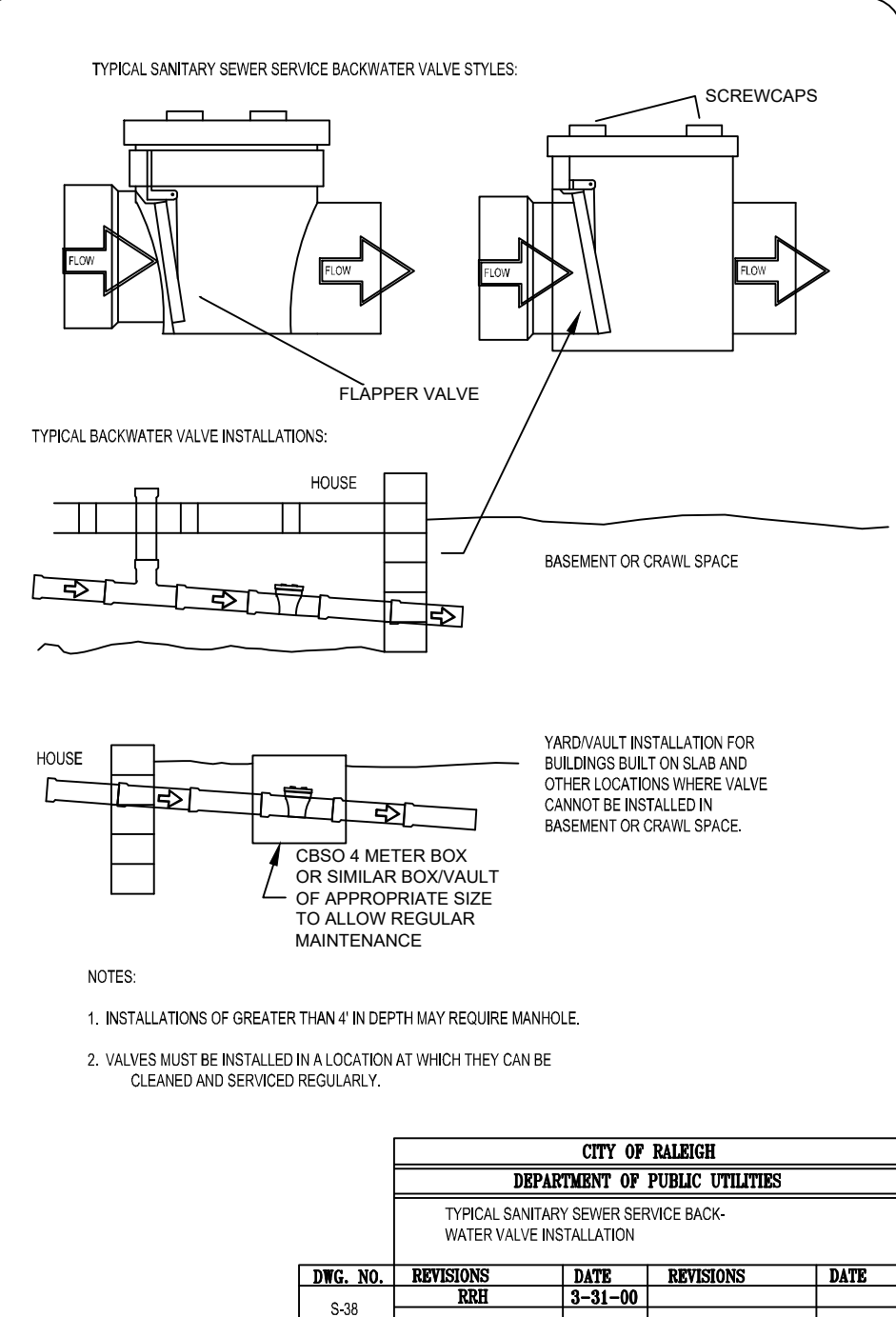
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
WATER-TIGHT MANHOLE FRAME WITH CAM LOCK COVER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-33	REV. 1	3-30-00			



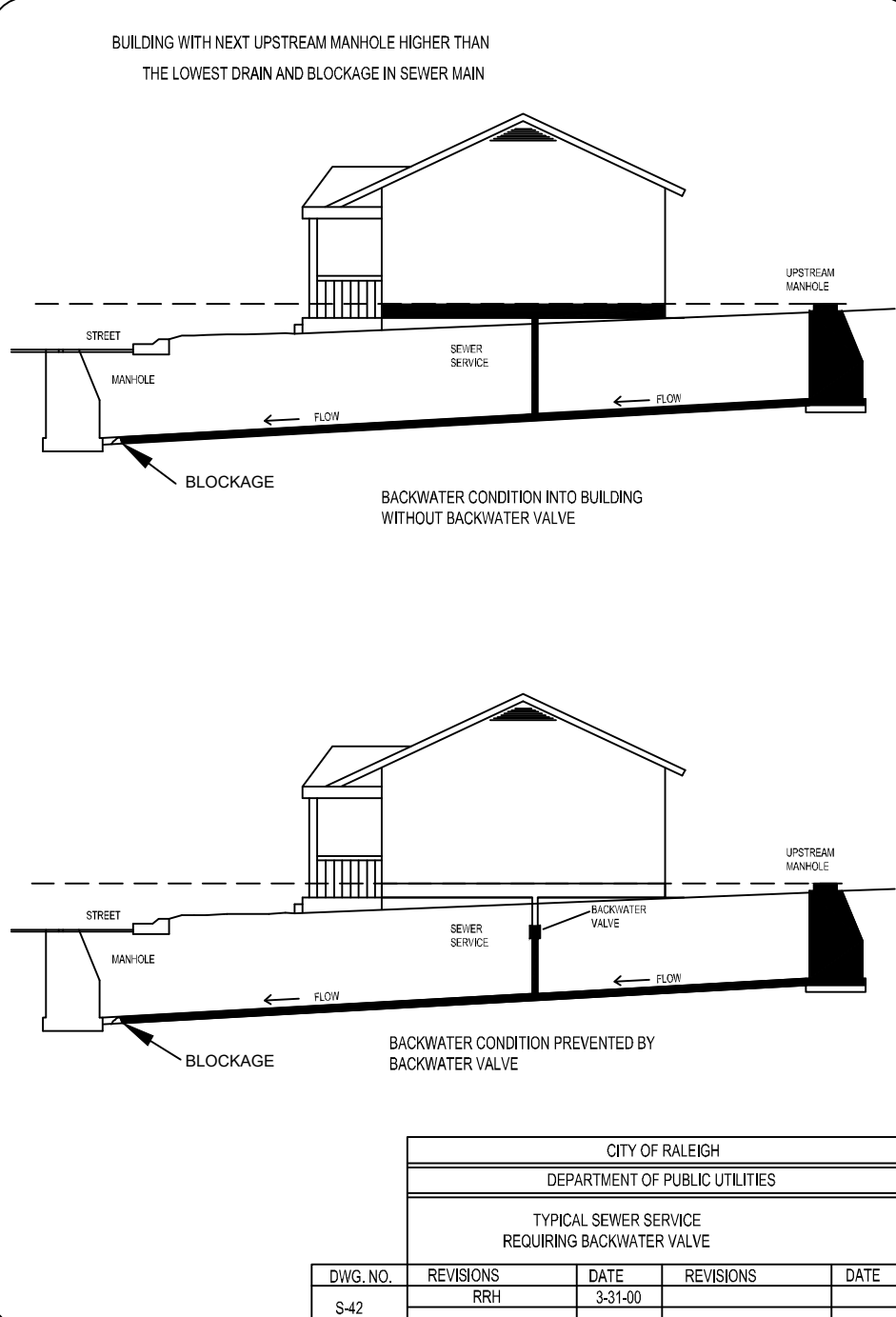
		CITY OF RALEIGH	
		DEPARTMENT OF PUBLIC UTILITIES	
		PIPE ALIGNMENT GUIDE	
DWG. NO.	REVISIONS	DATE	REVISION
S-39	RRH	3-31-00	
	A.B.B.	4-16-04	



4" CLEANOUT PLUG			
	DATE	REVISIONS	DATE
	3-1-87	RRH	3-30-00
	3-27-98		



CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
TYPICAL SANITARY SEWER SERVICE BACKWATER VALVE					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-36	REV. 1	3-30-00			



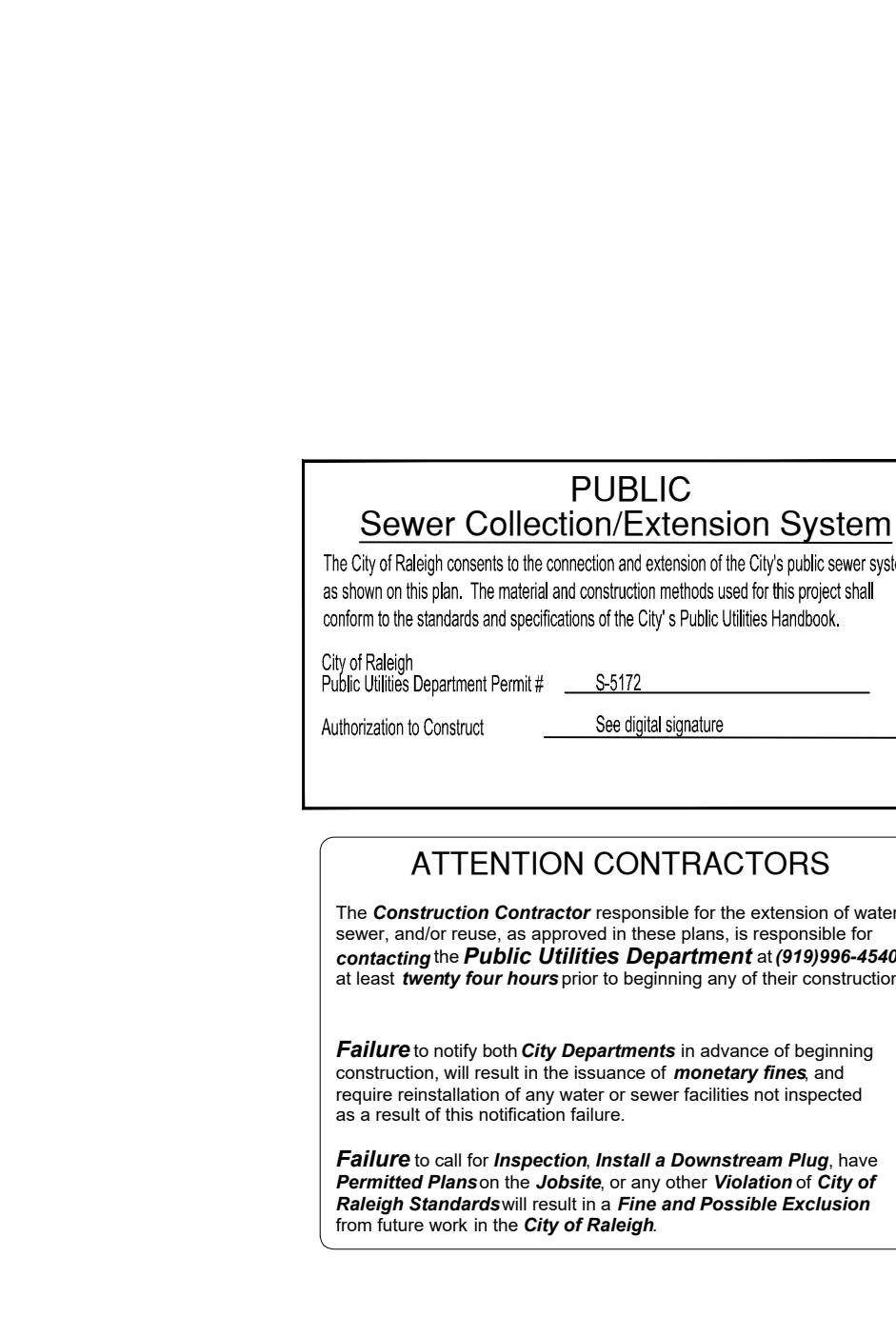
CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-37	REV. 1	3-30-00			



CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
STANDARD MANHOLE COVER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-38	REV. 1	3-30-00			



CITY OF RALEIGH					
DEPARTMENT OF PUBLIC UTILITIES					
WATER-TIGHT MANHOLE FRAME WITH CAM LOCK COVER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE	
S-39	REV. 1	3-30-00			



***Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.***

Bowman

Bowman North Carolina Ltd.  
 4006 BARRETT DR  
 Suite 104  
 RALEIGH, NC 27609  
 Phone: (919) 553-6570  
 bowman.com  
 Bowman North Carolina Ltd.

TRACTOR SUPPLY COMPANY

UTILITY DETAILS  
 Tractor Supply  
 Old US Highway 264  
 Zebulon, NC Wake County

SEAL  
 2449  
 10/15/2018  
 J. H. DUBOIS  
 CIVIL ENGINEER

PLAN STATUS  
 11/30/23 SEWER CROSSING AT RAILROAD  
 1/10/24 PER WAKE CO REVIEW  
 3/26/24 PER NCDOT REVIEW  
 5/28/24 PER CITY OF RALEIGH REVIEW  
 MEL DESIGN  
 MEL DRAWN  
 SCALE H: 1" = XXX'  
 V: 1" = XXX'  
 JOB No. 220127-01-001  
 DATE May 28, 2024  
 FILE No. 220127-D-CP-001  
 SHEET C6.6B



1. INSTALL EROSION CONTROLS.
2. CONSTRUCT DAM BASE AND AREAS BELOW THE NORMAL POOL. CONSTRUCTION TO BE PERFORMED UNDER THE INSPECTION OF THE GEOTECHNICAL ENGINEER. SEED UPON COMPLETION.
3. INSTALL OUTLET PIPE, RIP-RAP APRON AND STONE FILTER RING.
4. CONSTRUCT OUTLET STRUCTURE.
5. REMOVE ACCUMULATED SEDIMENT AND SEED UPON COMPLETION.



**Important operation and maintenance procedures:**

1. Immediately after the wet pond is established, the plants on the vegetated shell and perimeter of the basin will be watered weekly if needed until plants become established. Commonly this will be 1 to 2 inches of water.
2. No portion of the wet pond will be fertilized after the first initial fertilization that is required to establish the plants on the vegetated shell.
3. The pond will be maintained in the drainage area to reduce the sediment load to the wet pond.
  - a. If the pond must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain will be minimized as much as possible.
  - b. Once a year, a storm safety inspection will be performed.
4. The mowing device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

After the wet pond is established, it should be inspected quarterly and within 24 hours after every storm event greater than 1.0 inches (or 1.5 inches for Class II) of rain. Records of operation and maintenance will be kept in a storm set location and shall be available upon request.



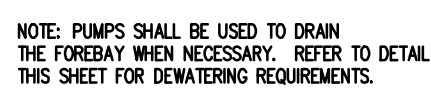
STORMWATER MANAGEMENT DESIGN WET DETENTION POND:

SCALE: N.T.S.

### TYPICAL LITTORAL SHELF PLANTING SCHEDULE

1 NOT TO SCALE

1. THE DEVELOPER OR HIS AGENT SHALL CONTACT THE DESIGN ENGINEER WHEN THE BEST MAINTENANCE PRACTICES ARE CONSTRUCTED AND ABOUT TO BE COMPLETED. SECTION 20 OF THE SPECIFICATIONS SHALL BE REVIEWED TO DETERMINE COMPLIANCE WITH THE APPROVED PLAN CAN BE PERFORMED.
2. ANNUAL MAINTENANCE INSPECTION AND REPORT REQUIRED – THE OWNER OF A PERMITTED STRUCTURAL STORMWATER BMP/CATCH BASIN SHALL ANNUALLY HAVE THE STRUCTURE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER OR THE STORMWATER ADMINISTRATOR. ANNUAL INSPECTIONS SHALL BEGIN WITHIN 90 DAYS OF THE EXPIRATION OF ANY DEED(S) SHOWING STRUCTURAL BMP/CATCH BASIN STRUCTURES.
3. UPON COMPLETION OF THE PROJECT, AND BEFORE A CERTIFICATE OF OCCUPANCY SHALL BE GRANTED, THE ENGINEER OF RECORD SHALL CERTIFY THAT THE PERMITTED PROJECT IS IN COMPLIANCE WITH THE APPROVED STORMWATER MANAGEMENT PLANS AND DESIGNS.
4. A FINAL INSPECTION OF THE SITE AND STORMWATER MANAGEMENT BMP/ CATCH BASIN TO BE SCHEDULED WITH AND COMPLETED BY THE PROJECT ENGINEER.
5. NOTED AND THEIR ASSIGNS HAVE RIGHT TO ACCESS THE STORMWATER CONTROL(S) FOR INSPECTIONS OR MAINTENANCE AS NECESSARY.
6. THE ENGINEER'S CERTIFICATION OF COMPLETION WILL BE REQUIRED PRIOR TO THE FINAL PLAT OR CERTIFICATE OF OCCUPANCY. THE STORMWATER CONTROL IS TO BE INSPECTED TO ENSURE IT IS FUNCTIONING AS DESIGNED AND THE DESIGN VOUCHER PRIOR TO ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY.
7. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING THE STORMWATER INFRASTRUCTURE ACCORDING TO THE APPROVED MAINTENANCE PLAN AND DESIGN AND NOTED.



PLAN STATUS		
11/30/23	SEWER CROSSING AT RAILROAD	
1/10/24	PER WAKE CO REVIEW	
3/26/24	PER NCDOT REVIEW	
5/28/24	PER CITY OF RALEIGH REVIEW	
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = XXX' V: 1" = XXX'	
JOB No.	220127-01-001	
DATE	May 28, 2024	
FILE No.	220127-D-CP-001	

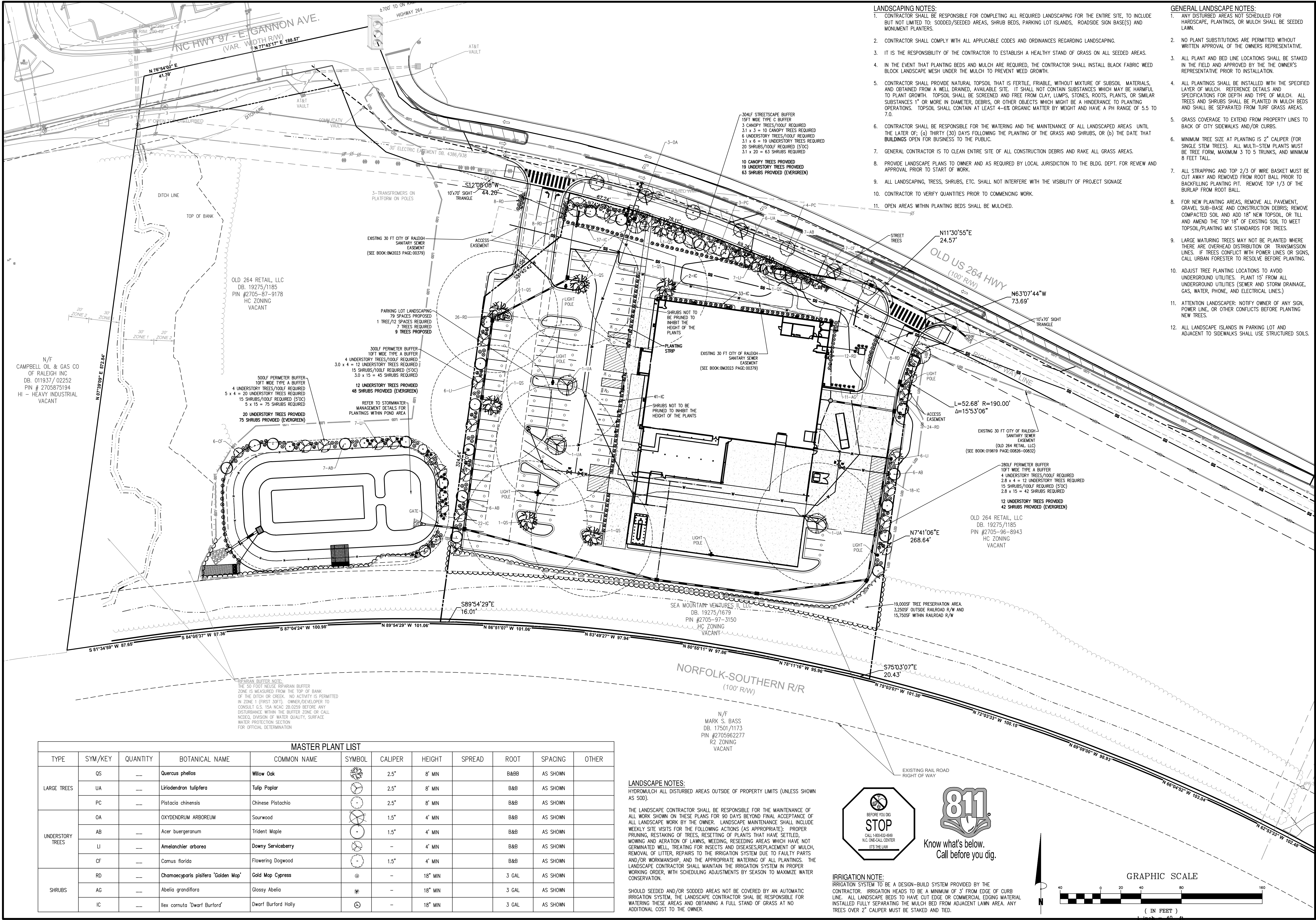














Conceptual Elevation  
Zebulon, NC  
October 14, 2022





Front Elevation





Front Elevation

UDO Analysis

Section 5.3.4.a.i - Primary Wall contains (2) types of building articulation.

- b.ii - Vertical Modulation
- b.vi - Primary Building Entrance

Primary Building Entrance  
b.i - Change in material & color  
b.iii - Feature that extends above roof height  
b.iv - projection greater than 5ft.

Vertical Modulation  
24" projected pilaster regularly spaced across the full facade.

Section 5.3.7.a.i - Primary Wall Fenestration

- a.i - 40% window/doors - Request 10% Reduction
- a.i - Visually transparent - Request Use of Partial Spandrel Glass

Section 5.3.6.b Parapet cornice.  
Top (2) courses corbel 1 1/2" each.

Facade is 2,530 SF. to roof line at 19'-8"  
40% area equals 1,012 SF. (-10%) = 910.80 SF

Windows above awnings:  
4'-8"x3'-4" x 12 windows = 186.60 SF

Windows below awnings:  
4'-8"x8'-4" x 12 windows = 466.56 SF.

Storefront entrance:  
27'-7" x 10'-0" = 275.16 SF

Fenestration as shown = 928.32 SF > 910.80 SF

Windows above the awnings and storefront entrance are clear vision glass

Windows below awnings are shown as opaque spandrel glass, due to racking and fixtures inside the building.



PRIMAX

TSC TRACTOR SUPPLY CO



Front-Right  
Elevation



PRIMAX

TSC TRACTOR  
SUPPLY CO.



## Greenhouse Connection





## Greenhouse Connection

### UDO Analysis

Section 5.3.4.a.i - Tertiary Wall contains no building articulation.

Material change turns the corner 3'-4" to satisfy Section 5.3.1.F.5.

Vertical modulation of material is flush with adjacent wall. As a tertiary wall it does not need to project.

Due to the greenhouse connection/fabrication to the side masonry wall, this wall is to be constructed with smooth face CMU, painted to match the front of the building.

**PRIMAX**

**TSC TRACTOR  
SUPPLY CO.**



Section 5.3.4.a.i - Tertiary Wall contains no building articulation.

## Rear Elevation Right Side

UDO Analysis

8' high black chain link fence  
and sliding gate

**PRIM<sup>2</sup>5X**  
CONSTRUCTION, INC.

**TSC TRACTOR  
SUPPLY CO.**



# Zebulon, NC.





## Rear Elevation Left Side





Rear Elevation  
Left Side

UDO Analysis

Section 5.3.4.a.i - Tertiary Wall contains no building articulation.

Material change occurs behind screen wall, for reasons explained on other elevations

Screen wall, required to screen Loading Area per Section 5.10.5

Section 5.3.4.a.i - Secondary Wall contains (1) type of building articulation.

b.ii - Vertical Modulation

Vertical Modulation  
24" projected pilaster regularly spaced across 50% of the secondary facade.

Section 5.3.7.a.i - Secondary Wall Fenestration

b.i - 30% window/doors - **Request 10% Reduction**  
b.iii - Articulated wall forms to mimic openings that also include awnings

Facade is 1,029 SF. to roof line at 16'-0"  
30% area equals 308.7 SF. (-10%) = 278.1 SF

Accents above red band:  
4'-0"x2'-8" x 8 accents = 85.33 SF.

Shutters below awnings:  
4'-0"x6'-8" x 8 shutters = 213.33 SF

Mock Fenestration = **298.66 SF** > 278.1 SF

Painted split face CMU accents to mimic clerestory windows above awning

Decorative shutters below accent band to mimic spandrel glass windows with awnings

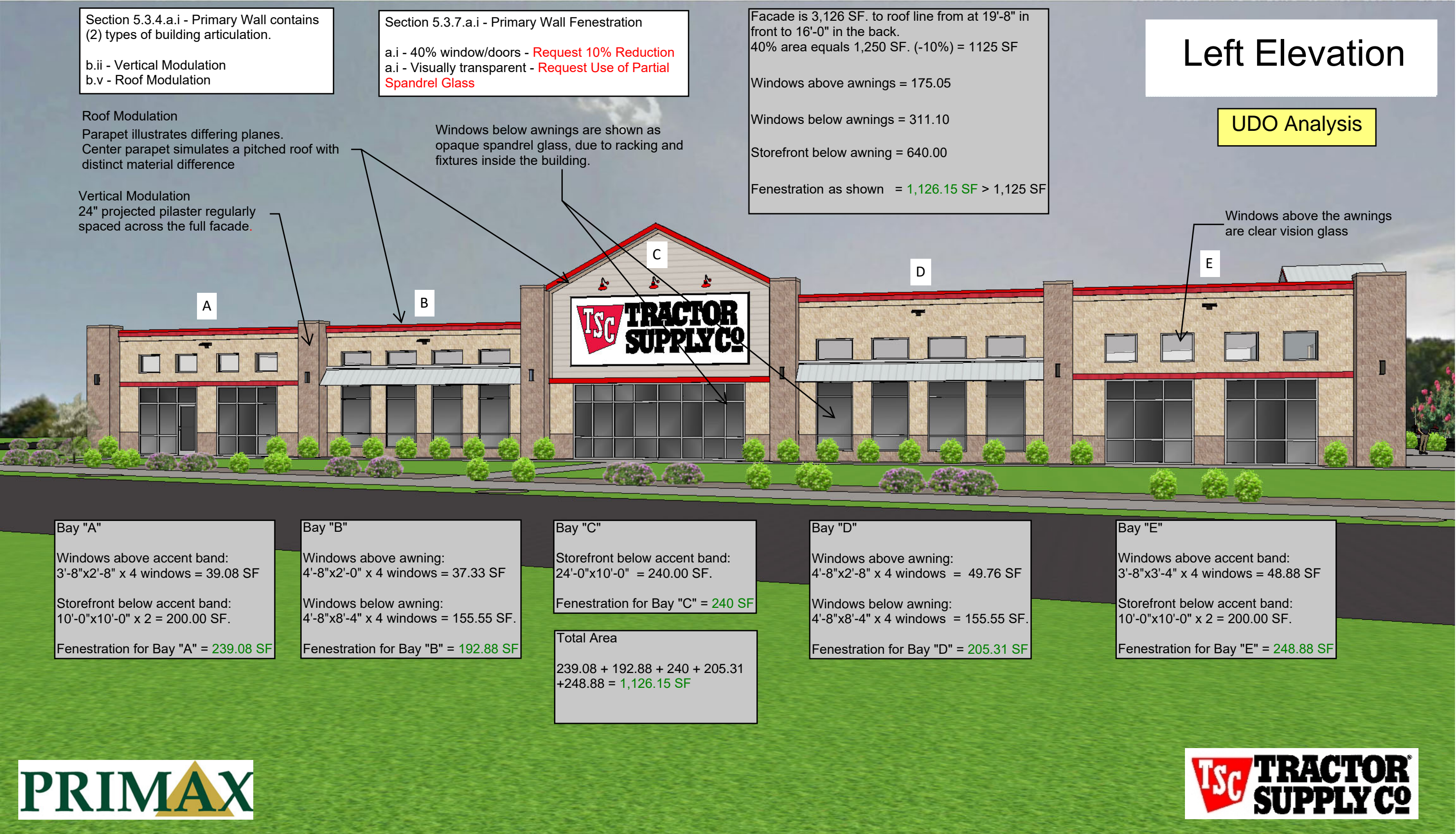




Left Elevation









Front-Left  
Elevation



PRIMAX

**TSC TRACTOR  
SUPPLY CO.**



## Front-Left Elevation

Trees removed for clarity



**PRIMAX**







Statistics							
Description	Symbol	Avg	Max	Min	Max/Avg	Max/Min	Avg/Min
Parking Lot Light Levels	+	1.9 fc	11.7 fc	0.1 fc	6.16	117.0:1	19.0:1
Property Line Light Levels	+	0.3 fc	1.6 fc	0.0 fc	5.33	N/A	N/A

Statistics							
Description	Symbol	Avg	Max	Min	Max/Avg	Max/Min	Avg/Min
Parking Lot Light Levels	+	1.9 fc	11.7 fc	0.1 fc	6.16	117.0:1	19.0:1
Property Line Light Levels	+	0.3 fc	1.6 fc	0.0 fc	5.33	N/A	N/A