

**SITE DATA:**

1. OWNER: PACIFIC BEACH CONSTRUCTION, LLC  
PO BOX 116  
BARCO, NC 27917

2. DEVELOPER: BOSWOOD ESTATES, LLC  
PO BOX 116  
BARCO, NC 27917  
252-53-4300

3. SITE INFORMATION  
PIN: 0060000053B0000  
D.B. 156 PG. 783  
ZONING: GB (GENERAL BUSINESS)

4. TOTAL PARCEL AREA: 26.97 AC  
AREA OUTSIDE CAMA JURISDICTION: 20.51 AC  
UPLAND AREA: 16.30 AC  
WETLAND AREA: 10.67 AC

5. OPEN SPACE REQUIRED: 30%  
OPEN SPACE PROVIDED: 46%  
1.13 AC BUFFERS TO BE OWNED BY HOA  
11.22 AC 404 WETLAND/CAMA TO BE DEDICATED TO NON-PROFIT  
REMAINING SUBDIVISION AREA = 15.74 AC

6. PROPOSED STREETS: DODSON DRIVE .50 RW 1,046 LF  
MATHIAS COURT .50 RW 150 LF

7. EXISTING USE: VACANT/AGRICULTURAL  
PROPOSED USE: RESIDENTIAL

8. TOTAL NUMBER OF LOTS = 14  
PHASE 1: LOTS 1-6  
PHASE 2: LOTS 7-14  
SMALLEST LOT = 0.91 AC

9. TYPE B AESTHETIC BUFFER AREA: 0.23 AC  
MAJOR ARTERIAL BUFFER AREA: 0.37 AC  
FARMLAND BUFFER AREA: 0.50 AC  
TOTAL BUFFER AREA: 1.10 AC

10. DEDICATED OPEN SPACE: 11.22 AC

11. LOT AREA: 13.07 AC  
RW AREA: 1.58 AC  
TOTAL OPEN SPACE: 12.32 AC  
TOTAL PARCEL AREA: 26.97 AC

12. MINIMUM BUILDING SETBACKS:  
FRONT: 25' (BASED ON EASEMENT)  
SIDE: 15' (ZONING)  
SIDE (CORNER): 25' (BASED ON EASEMENT)  
REAR: 25' (ZONING)  
(30' MAJOR ARTERIAL SETBACK ALONG US HWY 168)

13. EASEMENTS:  
10' ALONG SIDE PROPERTY LINES  
25' ALONG REAR PROPERTY LINES  
25' DRAINAGE, LANDSCAPE, & PEDESTRIAN EASEMENT  
ALONG RIGHT OF WAY  
EASEMENTS EXCEEDING THESE ARE AS NOTED

14. SITE IS LOCATED IN FLOOD ZONE "X", "SHADED X", & AE(4)" AS SHOWN ON F.I.R.M. PANEL 372098600K, DATED DECEMBER 21, 2018.  
FLOOD ZONES SUBJECT TO CHANGE BY FEMA.

15. THE MAXIMUM BUILT UPON AREA PER LOT FOR NCDEQ STORMWATER MANAGEMENT PERMIT: 8,000 SF  
THE MAXIMUM BUILT UPON AREA FOR EACH LOT IS 8,000 SF. THE ALLOTTED AMOUNT INCLUDES ANY BUILT UPON AREA TRANSFERRED FROM LOTS PROVIDED IN THE REAR PORTION OF THE RIGHT-OF-WAY BETWEEN THE FRONT PROPERTY LINE AND THE BACK OF CURB. BUILT-UPON AREA INCLUDES, BUT IS NOT LIMITED TO, STRUCTURES, ASPHALT, GRAVEL, CONCRETE, BRICK, STONE, SLATE, OR SIMILAR MATERIAL, BUT DOES NOT INCLUDE RAISED OPEN WOOD DECKING OR THE WATER SURFACE OF SWIMMING POOLS.

16. COVERAGE CALCULATIONS:  
LOT COVERAGE: 112,000 SF (16.33%)  
ASPHALT: 34,921 SF (5.09%)  
CONCRETE: 11,303 SF (1.65%)  
TOTAL: 159,224 SF (23.07%)  
(PERCENTAGE BASED ON 15.74 ACRES REMAINING AFTER DEDICATION OF WETLANDS TO NON-PROFIT)

17. ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITE/MINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A SINGLE APPROVED LOCATION.

18. DISTURBED AREAS SHALL BE MANAGED AND MAINTAINED IN ACCORDANCE WITH NCDEQ REGULATIONS. DISTURBED AREA WILL NOT EXCEED 16.46 ACRES.

19. EXISTING CONDITIONS DATA IS BASED UPON A TOPOGRAPHIC SITE SURVEY PERFORMED BY THE TIMMONS GROUP IN DECEMBER 2019.

20. WETLANDS SHOWN HEREON DELINEATED BY ATLANTIC ENVIRONMENTAL CONSULTANTS LLC ON FEBRUARY 4, 2020. U.S. ARMY CORPS OF ENGINEERS APPROVED DELINEATION ON SITE FEBRUARY 4, 2020. JD LETTER ISSUED MARCH 25, 2020.

21. ELEVATION INFORMATION SHOWN HEREON IS NAVD 1988 DATUM AND DERIVED FROM LEICA RTK NETWORK.

22. ACCESS TO CORNER LOTS (10 & 14) SHALL BE FROM MATHIAS COURT.

23. NO STREET LIGHTING IS PROPOSED.

24. RECREATION & PARK AREA DEDICATION: 14 LOTS X 0.0255 AC/LOT = 0.36 AC. PAYMENT IN LIEU OF DEDICATION IS PROPOSED DUE TO SIZE.

25. STREET INTERCONNECTIVITY INDEX CALCULATION: NUMBER OF LINKS = 3  
NUMBER OF NODES = 2 CONNECTIVITY INDEX = 3/2 = 1.50  
(FOR GB, MIN. INDEX SCORE REQ'D = 1.40)

26. NO DISTURBANCE IS PROPOSED WITHIN WETLANDS OR CAMA AEC.

27. NO SHORELINE IMPROVEMENTS ARE PROPOSED.

**APPROVAL CERTIFICATE**

I HEREBY CERTIFY THAT THE SUBDIVISION SHOWN ON THIS PLAT IS IN ALL RESPECTS IN COMPLIANCE WITH THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE AND, THEREFORE, THIS PLAT HAS BEEN APPROVED BY THE CURRITUCK COUNTY TECHNICAL REVIEW COMMITTEE AND SIGNED BY THE ADMINISTRATOR, SUBJECT TO ITS BEING RECORDED IN THE CURRITUCK COUNTY REGISTRY WITHIN 90 DAYS OF THE DATE BELOW.

DATE: 10/31/2025 ADMINISTRATOR: KIMBERLY D. HAMBY

**ENVIRONMENTAL CONCERN CERTIFICATE**

THIS SUBDIVISION (OR PORTIONS THEREOF) IS LOCATED WITHIN AN AREA OF ENVIRONMENTAL CONCERN.

DATE: 10/31/2025 LOCAL PERMIT OFFICER: KIMBERLY D. HAMBY

**WETLANDS STATEMENT**

PROPERTY ON THIS PLAT MAY CONTAIN 404 WETLANDS AND MAY REQUIRE U.S. CORP OF ENGINEERS APPROVAL PRIOR TO DEVELOPMENT OF THE PROPERTY.

**STORMWATER STATEMENT**

NO MORE THAN 8,000 SF OF ANY LOT SHALL BE COVERED BY IMPERVIOUS STRUCTURES AND MATERIALS, INCLUDING ASPHALT, GRAVEL, CONCRETE, BRICK, STONE, SLATE, OR SIMILAR MATERIALS, NOT INCLUDING WOOD DECKING OR THE WATER SURFACE OF SWIMMING POOLS. THE COUNTRY COULD REQUIRE CONSENT OF THE CURRITUCK COUNTY STORMWATER PERMIT NUMBER, ISSUED BY THE STATE OF NORTH CAROLINA. THE COVENANT MAY NOT BE CHANGED OR DELETED WITHOUT THE CONSENT OF THE STATE. FILLING IN OR PIPING OF ANY VEGETATIVE CONVEYANCES (DITCHES, SWALES, ETC.) ASSOCIATED WITH THIS DEVELOPMENT, EXCEPT FOR AVERAGE DRIVEWAY CROSSINGS, IS STRICTLY PROHIBITED BY ANY PERMIT. THE LOT COVERAGE REQUIREMENT FOR THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE MAY BE DIFFERENT THAN THE NC STATE STORMWATER PERMIT. THE MOST RESTRICTIVE LOT COVERAGE SHALL APPLY.

**PROPERTY ADDRESSES**

LOT 1: 100 DODSON DR  
LOT 2: 102 DODSON DR  
LOT 3: 104 DODSON DR  
LOT 4: 106 DODSON DR  
LOT 5: 101 DODSON DR  
LOT 6: 103 DODSON DR  
LOT 7: 108 DODSON DR  
LOT 8: 111 DODSON DR  
LOT 9: 109 DODSON DR  
LOT 10: 100 MATHIAS CT  
LOT 11: 102 MATHIAS CT  
LOT 12: 104 MATHIAS CT  
LOT 13: 103 MATHIAS CT  
LOT 14: 101 MATHIAS CT

**PRELIMINARY PLAT**  
**NOT FOR RECORDATION  
ON CONVEYANCE**

**ADJACENT ACTIVE FARMLAND STATEMENT**

AS OF THE RECORDED DATE OF THIS PLAT, SOME PORTIONS OF THIS DEVELOPMENT ADJOINS LAND USED FOR ACTIVE AGRICULTURE PURPOSES THAT IS ANTICIPATED TO GENERATE NOISE, LIGHT, DUST, OR VIBRATION AS PART OF ITS NORMAL OPERATION.

**VICINITY MAP**  
NO SCALE

**REVISION DESCRIPTION**

THIS DRAWING PREPARED AT THE ELIZABETH CITY OFFICE 1805 West City Drive, Unit E   Elizabeth City, NC 27909 TEL 252.621.5030 FAX 252.562.6974 www.timmons.com
REVISIONS PER TRC COMMENTS 11/05/2021
REVISIONS PER ADDITIONAL TRC COMMENTS 12/21/2021
FEES DUE TO RAW INCREASE FOR MATHIAS COURT 05/08/2024
FEES DUE TO DOT TURNAROUND POLICY 09/11/2025
FEES PER COUNTY REVIEW COMMENTS 10/21/2025

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

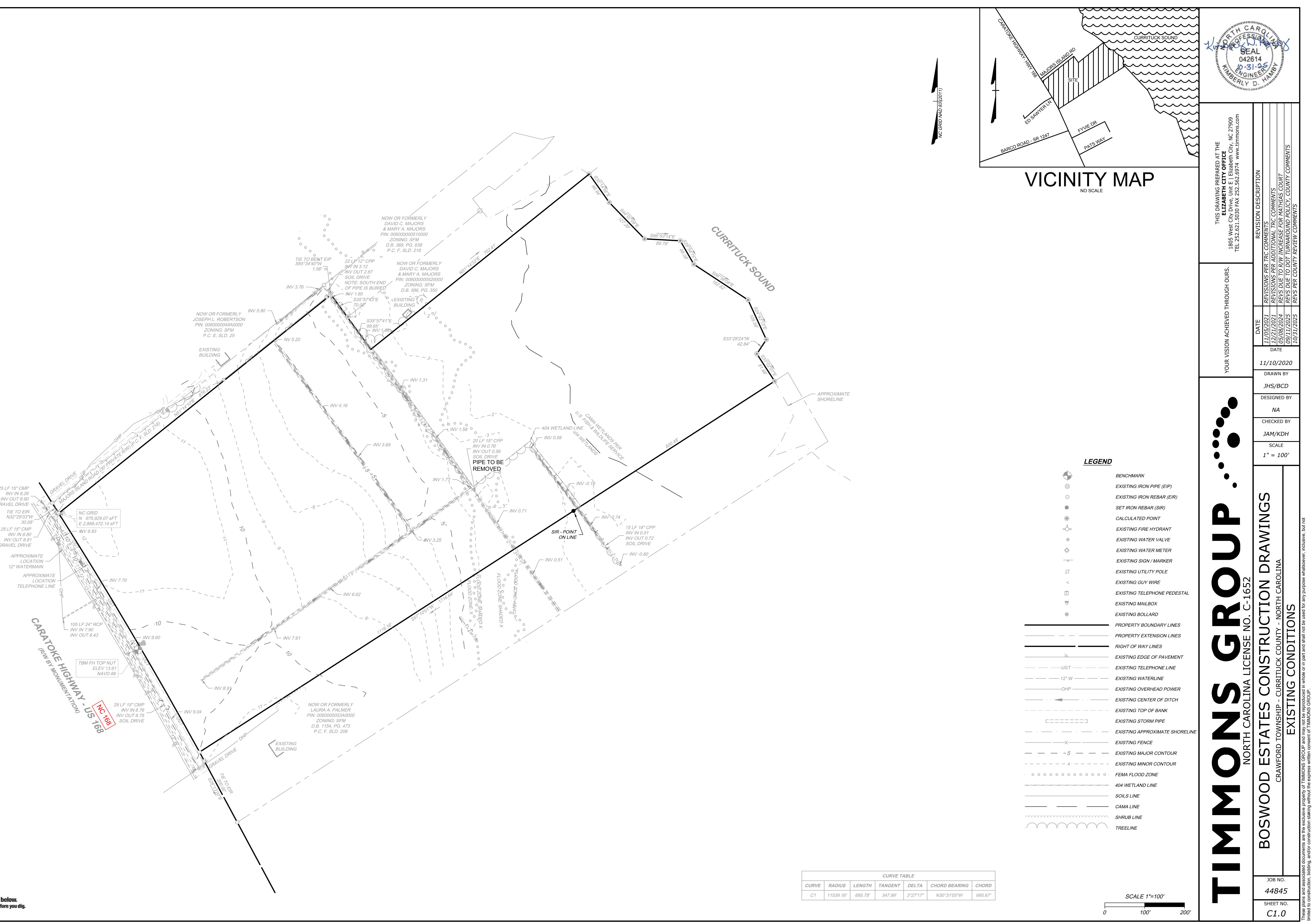
BOSWOOD ESTATES CONSTRUCTION DRAWINGS  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction drafting without the express written consent of TIMMONS GROUP.

811 Know what's below. Call before you dig.  
S11094485 Boswood Estates - Mathias Property - Barco, NC DODG Sheet CD44849C - C0.0 - COVER.dwg | Printed on 10/31/2025 11:14 AM by Kim Hamby

JOB NO.  
44845  
SHEET NO.  
C0.0

1



PRELIMINARY PLAT  
OCT 31, 2025  
NOT FOR RECORDATION  
OR CONVEYANCE

THIS DRAWING PREPARED AT THE  
ELIZABETH CITY OFFICE  
1180 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.5030 FAX 252.562.6974 www.timmons.com

REVISION DESCRIPTION

REVISION

DATE

11/05/2021

REVISIONS PER TRC COMMENTS

11/21/2021

REVISIONS FOR ADDITIONAL TRC COMMENTS

09/08/2024

REVIS DUE TO RAW INGRESS FOR MATIAS COURT

10/11/2025

REVIS PER COUNTY REVIEW COMMENTS

10/31/2025

## VICINITY MAP

NO SCALE

**BUFFERING REQUIREMENTS**

**TYPE B, OPTION 1: 702 LF PROPOSED (25' WIDE)\***

CANOPY TREES: 8 ACI PER 100 LF = 56 ACI REQUIRED  
UNDERSTORY TREES: 10 ACI PER 100 LF = 70 ACI REQUIRED  
SHRUBS: 15 SHRUBS PER 100 LF = 105 SHRUBS REQUIRED

**TYPE B, OPTION 2: 1020 LF PROPOSED (10' WIDE)**

CANOPY TREES: 2 ACI PER 100 LF = 20 ACI REQUIRED  
UNDERSTORY TREES: 14 ACI PER 100 LF = 143 ACI REQUIRED  
SHRUBS: 20 SHRUBS PER 100 LF = 204 SHRUBS REQUIRED

**MAJOR ARTERIAL SCREENING: 645 LF (25' WIDE)**

CANOPY TREES: 6 ACI PER 100 LF = 39 ACI REQUIRED  
UNDERSTORY TREES: 3 ACI PER 100 LF = 19 ACI REQUIRED  
SHRUBS: 5 SHRUBS PER 100 LF = 32 SHRUBS REQUIRED

**FARMLAND BUFFER: 472 LF (50' WIDE)**

14 TREES (HARDWOOD/EVERGREEN MIX) PER 100 LF = 19 TREES REQUIRED

ACI = AGGREGATE CALIPER INCHES

\*AREA OF PROPOSED TYPE B, OPTION 1 BUFFER IS LOCATED IN WETLANDS.

NOTE: ACTUAL LANDSCAPE MATERIALS TO BE USED SHALL BE SUBMITTED TO PLANNING FOR APPROVAL PRIOR TO INSTALLATION.

\*\*\*SEE SHEET C2.1 FOR ADDITIONAL LANDSCAPE BUFFER INFORMATION.

# TIMMONS GROUP

BOSWOOD ESTATES CONSTRUCTION DRAWINGS

CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA  
PRELIMINARY PLAT & BUFFERING PLAN

NORTH CAROLINA LICENSE NO. C-1652

JOB NO.  
44845  
SHEET NO.  
C2.0

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, building, and/or construction drafting without the express written consent of TIMMONS GROUP.

### LEGEND

- EXISTING IRON PIPE (EIP)
- EXISTING IRON REBAR (EIR)
- SET IRON REBAR (SIR)
- CALCULATED POINT
- PROPERTY BOUNDARY LINES
- PROPERTY EXTENSION LINES
- RIGHT OF WAY LINES
- EXISTING APPROXIMATE SHORELINE
- FEMA FLOOD ZONE
- 404 WETLAND LINE
- CAMA LINE
- PROPOSED LOT LINES
- PROPOSED BUILDING SETBACK
- PROPOSED RIGHT OF WAY
- AESTHETIC BUFFER
- DRAINAGE EASEMENT
- NO ACCESS BUFFER
- PHASE LINE
- FARMLAND BUFFER
- MAJOR ARTERIAL SCREENING
- AESTHETIC BUFFER
- RIPARIAN BUFFER
- OPEN SPACE

SCALE 1"=100'  
0 100' 200'

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	11539.16'	695.78'	347.99'	3°27'17"	N30°31'05"W	695.67'

LINE TABLE

LINE	LENGTH	BEARING
L1	24.86	S32°49'59"E
L2	9.52	N32°49'59"W
L3	9.52	S32°49'59"E
L4	24.86	S32°49'59"E
L5	35.76	S17°34'31"E
L6	35.76	N17°34'31"E

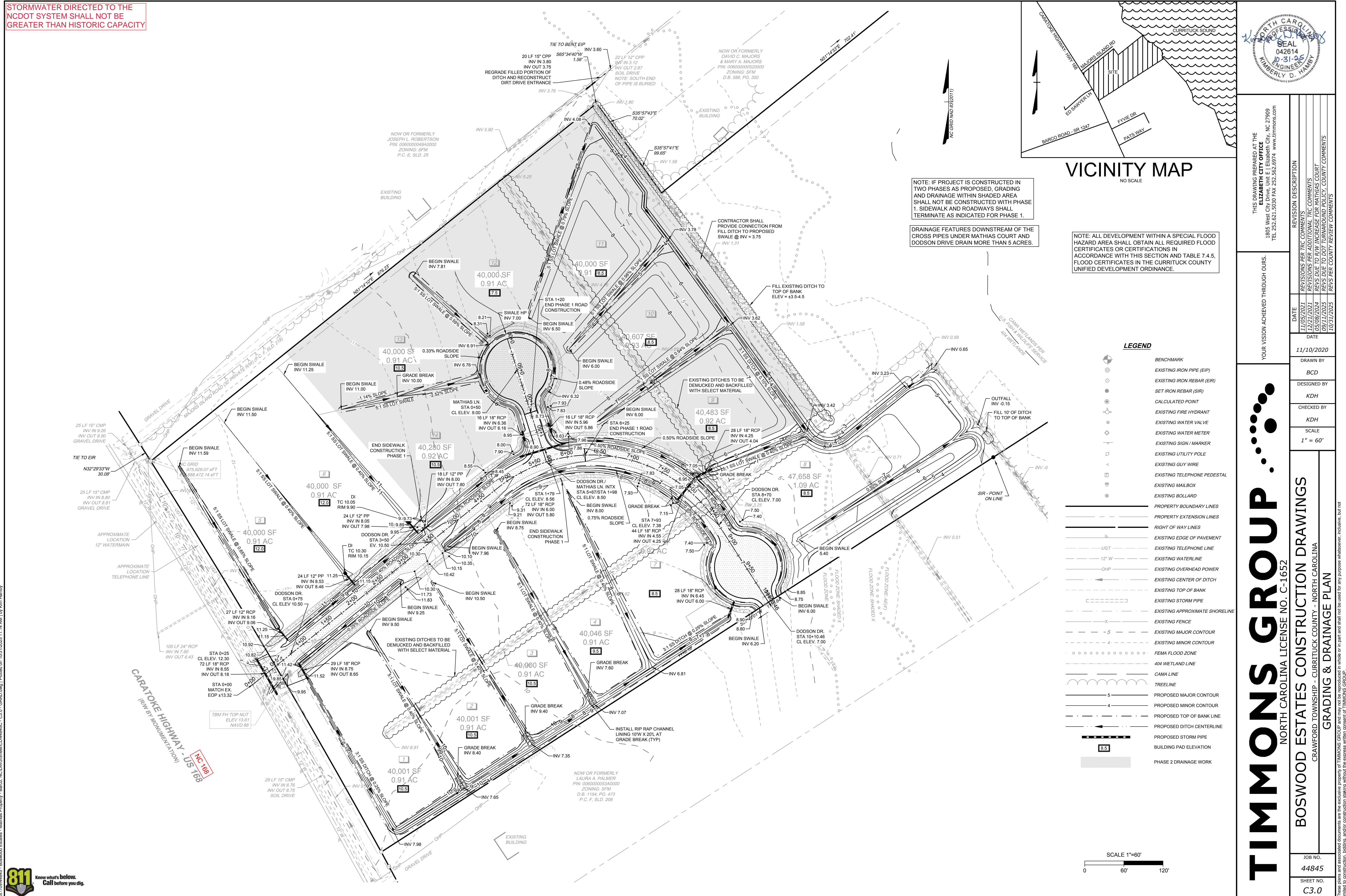
  

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C2	30.00	48.94	31.88	93°28'20"	S82°19'25"E	43.69
C3	205.00	343.23	227.40	95°55'51"	N80°47'55"W	304.52
C4	60.00	136.92	130.90	130°45'05"	S32°49'59"E	109.09
C5	60.00	136.92	130.90	130°45'05"	N32°49'59"W	109.09
C6	255.00	286.87	160.75	64°27'20"	N65°03'39"W	271.98
C7	25.00	34.78	20.87	79°42'48"	S57°25'55"E	32.04
C8	25.00	23.55	12.73	53°58'05"	S9°24'32"W	22.69
C9	60.00	301.53	43.64	287°56'10"	S72°25'29"W	70.59
C10	25.00	23.55	12.73	53°58'05"	N44°33'34"W	22.69
C11	25.00	34.78	20.87	79°42'48"	N22°16'53"E	32.04
C12	255.00	48.52	24.33	10°54'08"	S56°41'14"W	48.45
C13	205.00	88.11	44.75	24°37'35"	S63°32'57"W	87.43
C14	205.00	255.12	147.05	71°18'16"	N68°29'07"W	238.97
C15	60.00	82.66	49.40	78°55'50"	S6°55'21"E	76.27
C16	60.00	54.27	29.15	51°49'15"	S72°17'54"E	52.44
C17	60.00	54.27	29.15	51°49'15"	N6°37'56"E	52.44
C18	60.00	82.66	49.40	78°55'50"	N58°44'37"W	76.27
C19	255.00	81.99	41.35	18°25'19"	N42°02'39"W	81.64
C20	255.00	201.99	106.63	45°23'07"	N73°56'52"W	196.75
C21	255.00	2.88	1.44	0°38'53"	S83°02'07"W	2.88
C22	60.00	45.81	24.09	43°44'51"	N14°31'09"E	44.71
C23	60.00	77.26	45.03	73°46'47"	N44°14'41"W	72.03
C24	60.00	59.65	32.55	56°57'26"	S70°23'13"W	57.22
C25	60.00	57.64	31.26	55°02'19"	S14°23'20"W	55.45
C26	60.00	61.17	33.54	58°24'47"	S42°20'13"E	58.56

THE EDGE OF PAVEMENT RADIUS FOR STREET  
CONNECTIONS SHOULD BE 30' MINIMUM  
THE EDGE OF PAVEMENT RADIUS FOR THE ENTRANCE TO  
AND AROUND CUL-DE-SACS SHOULD BE 35' MINIMUM



**STORMWATER DIRECTED TO THE  
NCDOT SYSTEM SHALL NOT BE  
GREATER THAN HISTORIC CAPACITY**



# TIME MONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

**STATE CONSTRUCTION DRAWINGS  
NORTH CAROLINA LICENSE NO. C-1652**

NORTH CAROLINA LICENSE NO. C-1652

P. 2

**BOSWOOD ESTATES CONSTRUCTION DRAWING**  
CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA  
**EROSION & SEDIMENTATION CONTROL PLAN**

COMMENTS	ADDITIONAL TRC COMMENTS	INCREASE FOR MATTHIAS COURT	TURNAROUND POLICY, COUNTY COMMENTS	REVIEW COMMENTS
----------	-------------------------	-----------------------------	------------------------------------	-----------------

021	REVISIONS PER TRC
021	REVISIONS PER ADD
024	REVS DUE TO R/W II
025	REVS DUE TO DOT T
025	REVS PER CO/INT R

11/05/20	12/21/20	05/08/20	09/11/20	10/31/20
DATE				
11/10/2020				
DRAWN BY				
BCD				
DESIGNED BY				
KDH				
CHECKED BY				
KDH				
SCALE				
1" = 60'				

# ESTIMATES CONSTRUCTION DRAWINGS /FORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA SEDIMENTATION & SEDIMENTATION CONTROL PLAN

BOSWOLD | CRAWFORD | EROS  
JOB NO. 44845  
SHEET NO. C3.1

# INCINITY MAP

NO SCALE

## NO SCARE

THIS DRAWING PREPARED AT THE  
**ELIZABETH CITY OFFICE**  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.5030 FAX 252.562.6974 [www.timmons.com](http://www.timmons.com)

---

REVISION DESCRIPTION

VED THROUGH OURS.

YOUR VISION ACHIEVED

DATE

1

2

3

4

5

# DRONES GROUP

NORTH CAROLINA LICENSE NO. C-1652

# TIME

## LEGEND

LOD		LIMIT OF DISTURBANCE
GCE		TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
SF		SILT FENCE
		STONE CHECK DAM
		RIP RAP
IP		INLET PROTECTION
		COIR BAFFLES
		DIVERSION DITCH

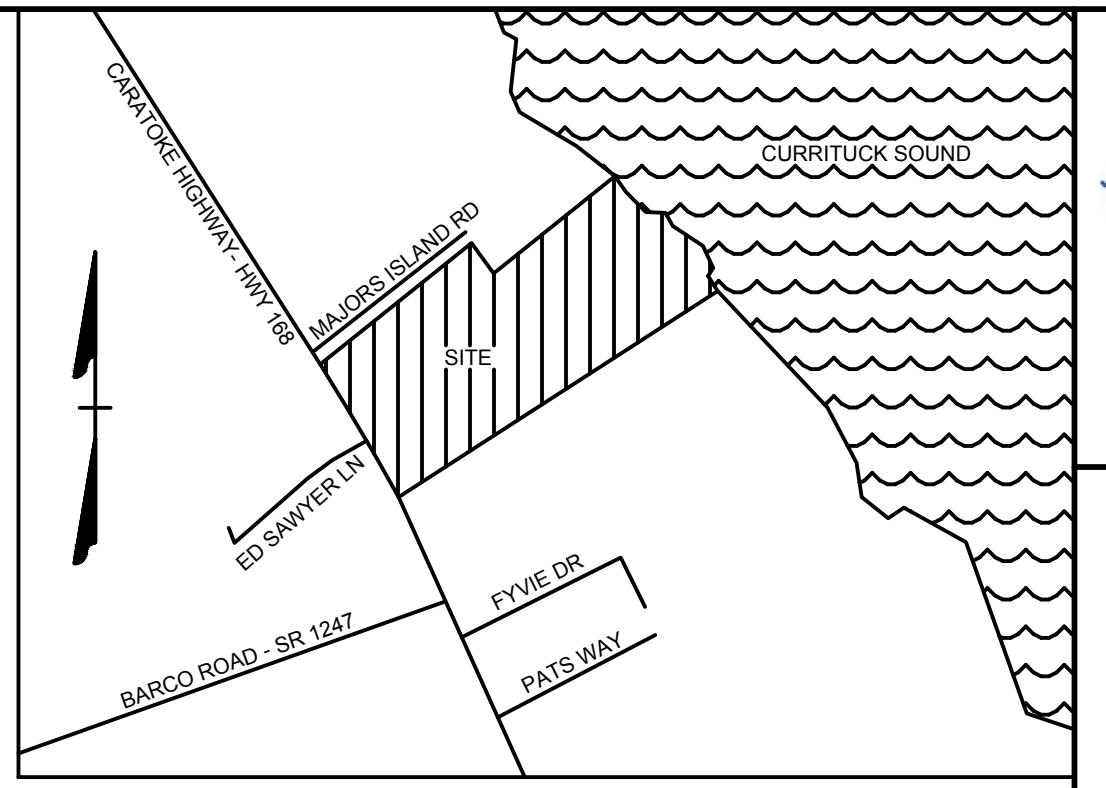
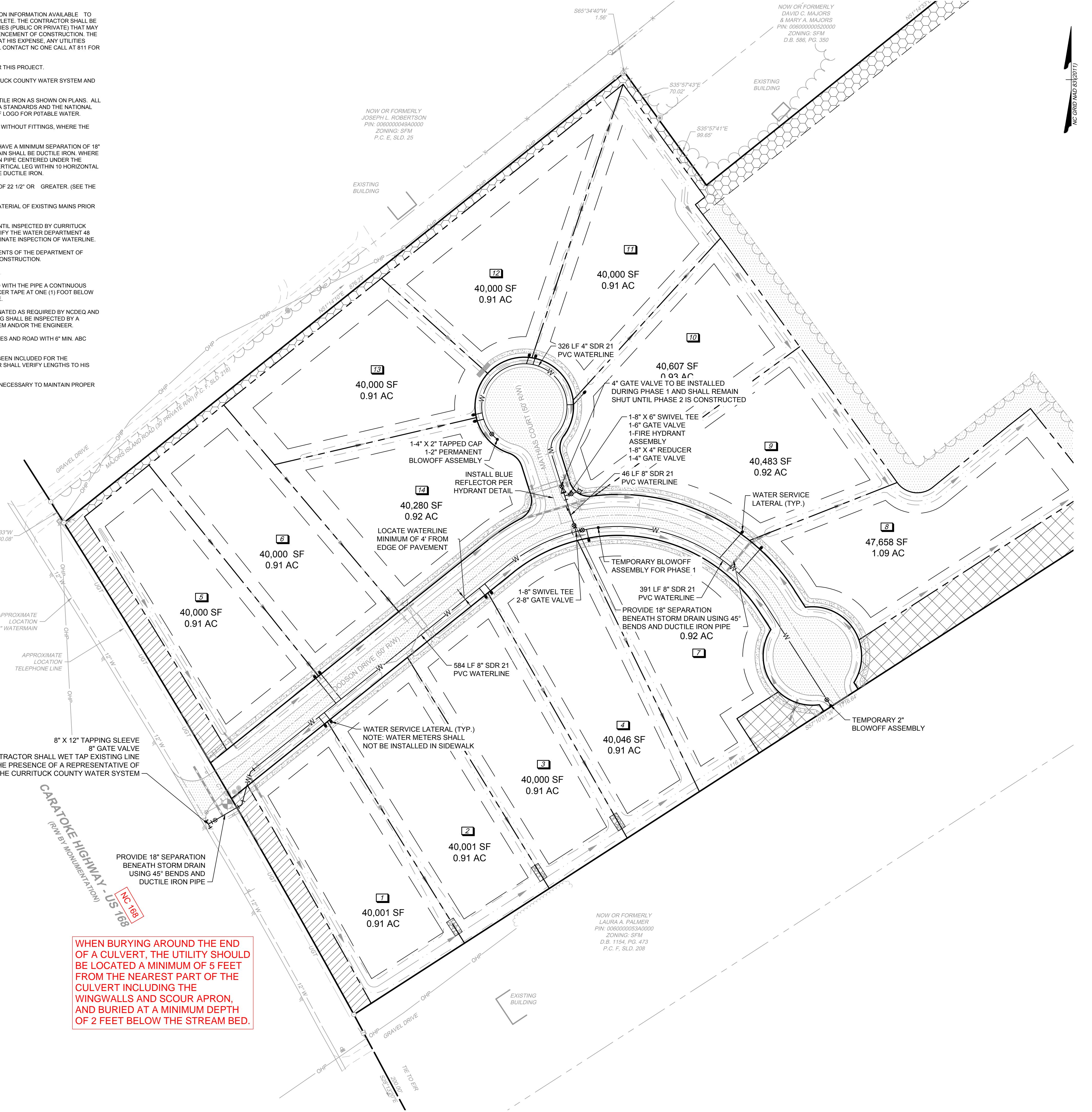
SCALE 1"=60'

S:\109\44845 - Boswood Estates - Mathias Property - Barco, NC\DWG\Sheet\CD44845C - C3.1 - EROS.dwg | Plotted on 10/31/2025 11:19 AM | by Kim Hamby



## WATERMAIN NOTES:

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON INFORMATION AVAILABLE TO THE ENGINEER AND SHOULD NOT BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY UTILITIES DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT NC ONE CALL AT 811 FOR UTILITY LOCATION.
2. CURRITUCK COUNTY WILL PROVIDE WATER SERVICE FOR THIS PROJECT.
3. ALL INSPECTIONS SHALL BE COORDINATED WITH CURRITUCK COUNTY WATER SYSTEM AND THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.
4. ALL WATERMAINS SHALL BE EITHER SDR 21 PVC OR DUCTILE IRON AS SHOWN ON PLANS. ALL PIPE SHALL COMPLY WITH THE REQUIREMENTS OF AWWA STANDARDS AND THE NATIONAL SANITATION FOUNDATION. ALL PIPE MUST BEAR THE NSF LOGO FOR POTABLE WATER.
5. WATERMAINS MAY BE INSTALLED UNDER STORM DRAINS WITHOUT FITTINGS, WHERE THE CHANGE IN VERTICAL ELEVATION IS TWO FEET OR LESS.
6. WATERMAINS INSTALLED UNDER STORM DRAINS SHALL HAVE A MINIMUM SEPARATION OF 18" BETWEEN WATERMAIN AND STORM DRAIN AND WATERMAIN SHALL BE DUCTILE IRON. WHERE PRACTICAL, INSTALL A FULL JOINT OF 20 LF DUCTILE IRON PIPE CENTERED UNDER THE STORM DRAIN. WHERE THE WATERLINE BENDS INTO A VERTICAL LEG WITHIN 10 HORIZONTAL FEET OF THE STORM DRAIN, THE VERTICAL LEG SHALL BE DUCTILE IRON.
7. THRUST BLOCKING SHALL BE INSTALLED ON ALL BENDS OF 22 1/2° OR GREATER. (SEE THE SPECIFICATIONS AND DETAILS ON THRUST BLOCKINGS.)
8. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND MATERIAL OF EXISTING MAINS PRIOR TO ORDERING MATERIALS.
9. DURING CONSTRUCTION, NO PIPE SHALL BE COVERED UNTIL INSPECTED BY CURRITUCK COUNTY WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION OF WATERLINE.
10. THE CONTRACTOR SHALL SATISFY ALL BOND REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. ALL WATERMAINS SHALL HAVE A MINIMUM OF 36" COVER.
12. ALL PIPES AND SERVICES TO HAVE RUNNING ALONG AND WITH THE PIPE A CONTINUOUS LENGTH OF #12 SOLID COPPER WIRE AND A 3" WIDE TRACER TAPE AT ONE (1) FOOT BELOW THE FINISHED GRADE OF THE EXCAVATION FOR THE PIPE.
13. WATERLINES SHALL BE PRESSURE TESTED AND CHLORINATED AS REQUIRED BY NCDEQ AND AS DETAILED IN THE COUNTY'S SPECIFICATIONS. TESTING SHALL BE INSPECTED BY A REPRESENTATIVE OF CURRITUCK COUNTY WATER SYSTEM AND/OR THE ENGINEER.
14. CONTRACTOR SHALL REPAIR ALL GRAVEL AND SOIL DRIVES AND ROAD WITH 6" MIN. ABC STONE
15. LENGTHS OF WATERLINE ARE APPROXIMATE AND HAVE BEEN INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY LENGTHS TO HIS SATISFACTION.
16. CONTRACTOR SHALL PROVIDE ADDITIONAL FITTINGS AS NECESSARY TO MAINTAIN PROPER ALIGNMENT AND COVER.



# VICINITY MAP

NO SCALE

2

ROCKWOOD ESTATES CONSTRUCTION DD AWNING  
NORTH CAROLINA LICENSE NO. C-1652

# DESIALES CONSTRUCTION DR/4

# UTILITY PLAN

## UTILITY PLAN

JOB NO	
4484	
SHEET NO	
C4.	



<b>PART III</b> <b>SELF-INSPECTION, RECORDKEEPING AND REPORTING</b>																					
<b>SECTION A: SELF-INSPECTION</b> <p>Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.</p>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Inspect</th> <th style="text-align: left;">Frequency (Normal business hours)</th> <th style="text-align: left;">Inspection records must include:</th> </tr> </thead> <tbody> <tr> <td>(1) Rain gauge maintained in good working order</td> <td>Daily</td> <td>           If daily rainfall gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). If no rain gauge is used, record the cumulative rain as "zero." The permittee may use another rain-monitoring device approved by the Division.         </td> </tr> <tr> <td>(2) E&amp;SC Measures</td> <td>At least once per 2 calendar days and within 24 hours of a rain event <math>\geq 1.0</math> inch 24 hours</td> <td>           1. Identification of measures inspected,            2. Date and time of the inspection,            3. Name of the person performing the inspection,            4. Indication of whether the measures were operating properly,            5. Description of maintenance needs for the measure,            6. Description, evidence, and date of corrective actions taken.         </td> </tr> <tr> <td>(3) Stormwater discharge outfalls (SDCs)</td> <td>At least once per 2 calendar days and within 24 hours of a rain event <math>\geq 1.0</math> inch 24 hours</td> <td>           1. Identification of measures inspected,            2. Date and time of the inspection,            3. Name of the person performing the inspection,            4. Indication of whether the measures were operating properly,            5. Description of maintenance needs for the measure,            6. Description, evidence, and date of corrective actions taken.         </td> </tr> <tr> <td>(4) Perimeter of site</td> <td>At least once per 2 calendar days and within 24 hours of a rain event <math>\geq 1.0</math> inch 24 hours</td> <td>           1. Identification of measures inspected,            2. Date and time of the inspection,            3. Name of the person performing the inspection,            4. Indication of whether the measures were operating properly,            5. Description of maintenance needs for the measure,            6. Description, evidence, and date of corrective actions taken.         </td> </tr> <tr> <td>(5) Streams or wetlands onsite or offsite (where accessible)</td> <td>At least once per 2 calendar days and within 24 hours of a rain event <math>\geq 1.0</math> inch 24 hours</td> <td>           If the stream or wetland has increased visible turbidity or a stream or wetland has increased visible sediment or debris from the construction activity, then a record of the following shall be made:            1. Actions taken to clean or stabilize the sediment that has left the stream or wetland outside site limits, then a record of the following shall be made:            2. Description, evidence, and date of corrective actions taken,            3. An explanation as to the actions taken to control future sedimentation.         </td> </tr> <tr> <td>(6) Ground stabilization measures</td> <td>After each phase of grading</td> <td>           If the stream or wetland has increased visible turbidity or a stream or wetland has increased visible sediment or debris from the construction activity, then a record of the following shall be made:            1. Actions taken to clean or stabilize the sediment that has left the stream or wetland outside site limits, then a record of the following shall be made:            2. Description, evidence, and date of corrective actions taken,            3. An explanation as to the actions taken to control future sedimentation.         </td> </tr> </tbody> </table>	Inspect	Frequency (Normal business hours)	Inspection records must include:	(1) Rain gauge maintained in good working order	Daily	If daily rainfall gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). If no rain gauge is used, record the cumulative rain as "zero." The permittee may use another rain-monitoring device approved by the Division.	(2) E&SC Measures	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	1. Identification of measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.	(3) Stormwater discharge outfalls (SDCs)	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	1. Identification of measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.	(4) Perimeter of site	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	1. Identification of measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.	(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	If the stream or wetland has increased visible turbidity or a stream or wetland has increased visible sediment or debris from the construction activity, then a record of the following shall be made: 1. Actions taken to clean or stabilize the sediment that has left the stream or wetland outside site limits, then a record of the following shall be made: 2. Description, evidence, and date of corrective actions taken, 3. An explanation as to the actions taken to control future sedimentation.	(6) Ground stabilization measures	After each phase of grading	If the stream or wetland has increased visible turbidity or a stream or wetland has increased visible sediment or debris from the construction activity, then a record of the following shall be made: 1. Actions taken to clean or stabilize the sediment that has left the stream or wetland outside site limits, then a record of the following shall be made: 2. Description, evidence, and date of corrective actions taken, 3. An explanation as to the actions taken to control future sedimentation.
Inspect	Frequency (Normal business hours)	Inspection records must include:																			
(1) Rain gauge maintained in good working order	Daily	If daily rainfall gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). If no rain gauge is used, record the cumulative rain as "zero." The permittee may use another rain-monitoring device approved by the Division.																			
(2) E&SC Measures	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	1. Identification of measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.																			
(3) Stormwater discharge outfalls (SDCs)	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	1. Identification of measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.																			
(4) Perimeter of site	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	1. Identification of measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.																			
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 2 calendar days and within 24 hours of a rain event $\geq 1.0$ inch 24 hours	If the stream or wetland has increased visible turbidity or a stream or wetland has increased visible sediment or debris from the construction activity, then a record of the following shall be made: 1. Actions taken to clean or stabilize the sediment that has left the stream or wetland outside site limits, then a record of the following shall be made: 2. Description, evidence, and date of corrective actions taken, 3. An explanation as to the actions taken to control future sedimentation.																			
(6) Ground stabilization measures	After each phase of grading	If the stream or wetland has increased visible turbidity or a stream or wetland has increased visible sediment or debris from the construction activity, then a record of the following shall be made: 1. Actions taken to clean or stabilize the sediment that has left the stream or wetland outside site limits, then a record of the following shall be made: 2. Description, evidence, and date of corrective actions taken, 3. An explanation as to the actions taken to control future sedimentation.																			
<b>SECTION B: RECORDKEEPING</b> <p>The approved E&amp;SC plan as well as any approved deviation shall be kept on the site. The approved E&amp;SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&amp;SC plan shall be kept on site and available for inspection at all times during normal business hours.</p>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Item</th> <th style="text-align: left;">Information Requirements</th> </tr> </thead> <tbody> <tr> <td>(a) Each E&amp;SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&amp;SC plan.</td> <td>Initial and date a copy of the approved E&amp;SC plan or complete, date and sign an inspection report to indicate completion of the initial installation.</td> </tr> <tr> <td>(b) A phase of grading has been completed.</td> <td>Initial and date a copy of the approved E&amp;SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.</td> </tr> <tr> <td>(c) Ground cover is located and installed in accordance with the approved E&amp;SC plan.</td> <td>Initial and date a copy of the approved E&amp;SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.</td> </tr> <tr> <td>(d) The maintenance and repair requirements for all E&amp;SC measures</td> <td>Complete, date and sign an inspection report.</td> </tr> <tr> <td>(e) Corrective actions have been taken to E&amp;SC measures.</td> <td>Initial and date a copy of the approved E&amp;SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.</td> </tr> </tbody> </table>	Item	Information Requirements	(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the initial installation.	(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.	(d) The maintenance and repair requirements for all E&SC measures	Complete, date and sign an inspection report.	(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.									
Item	Information Requirements																				
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the initial installation.																				
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.																				
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.																				
(d) The maintenance and repair requirements for all E&SC measures	Complete, date and sign an inspection report.																				
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.																				
<b>SECTION C: REPORTING</b> <p>1. Occurrences that Must be Reported Permittees shall report the following occurrences:</p> <ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland.</li> <li>(b) Oil spills if:           <ul style="list-style-type: none"> <li>• They are 25 gallons or more,</li> <li>• They are less than 25 gallons but cannot be cleaned up within 24 hours,</li> <li>• They cause sheen on surface waters (regardless of volume), or</li> <li>• They are within 100 feet of surface waters (regardless of volume).</li> </ul> </li> <li>(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.</li> <li>(d) Anticipated bypasses and unanticipated bypasses.</li> <li>(e) Noncompliance with the conditions of this permit that may endanger health or the environment.</li> </ul> <p>2. Reporting Timeframes and Other Requirements After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframe and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 950-0368.</p>																					

<b>Occurrence</b>	<b>Reporting Timeframes [After Discovery] and Other Requirements</b> <ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
-------------------	--

<b>Reporting Timeframes [After Discovery] and Other Requirements</b>	<ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
--	---

<b>Reporting Timeframes [After Discovery] and Other Requirements</b>	<ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
--	---

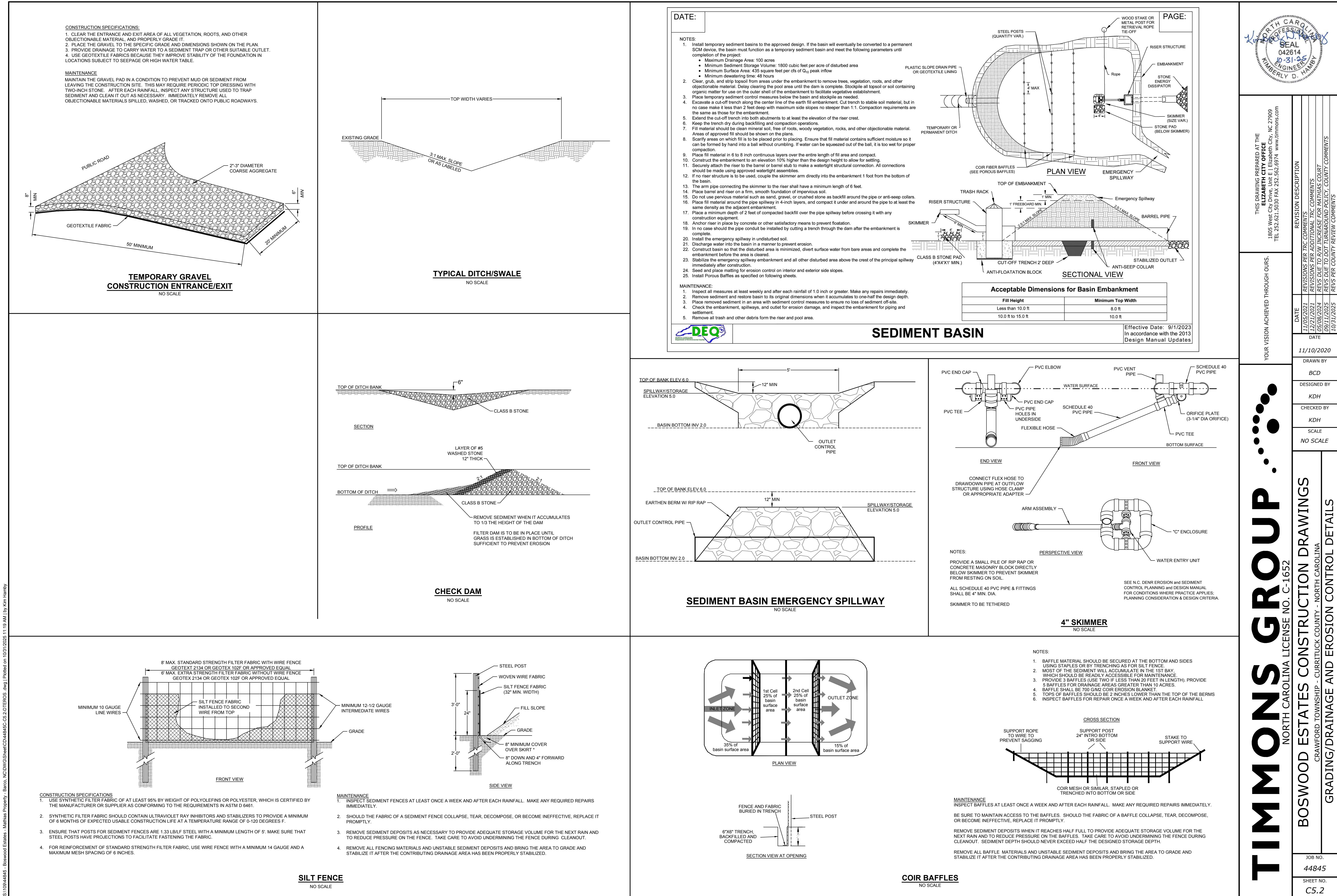
<b>Reporting Timeframes [After Discovery] and Other Requirements</b>	<ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
--	---

<b>Reporting Timeframes [After Discovery] and Other Requirements</b>	<ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
--	---

<b>Reporting Timeframes [After Discovery] and Other Requirements</b>	<ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
--	---

<b>Reporting Timeframes [After Discovery] and Other Requirements</b>	<ul style="list-style-type: none"> <li>(a) Visible sediment deposition in a stream or wetland           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the deposition, the measures taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related criteria, the permittee must be required to perform additional monitoring, take actions or apply new mitigation practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul> </li> <li>(b) Oil spills and release of hazardous substances per item 1(b)-(c) above           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> <li>• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effects of the bypass.</li> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(c) Anticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> </ul> </li> <li>(d) Unanticipated bypasses (40 CFR 122.41(m)(3))           <ul style="list-style-type: none"> <li>• Within 7 calendar days, a report that contains an evaluation of the quality and effect of the bypass.</li> </ul> </li> <li>(e) Noncompliance           <ul style="list-style-type: none"> <li>• Within 24 hours, an oral or electronic notification.</li> <li>• Within 7 calendar days, a report that contains a description of the noncompliance, the date and time of the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul> </li> </ul>
--	---

<b>Reporting</b>
------------------



	<p style="text-align: center;"><b>CONSTRUCTION SEQUENCING</b></p> <p>1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE PADS. (SEE DETAIL)  2. INSTALL EROSION CONTROL DEVICES AT SITE DISCHARGE POINTS AND ALL SILT FENCE TO PREVENT OFF SITE SEDIMENTATION.  3. PERFORM CLEARING DEMOLITION WORK AND INSTALL SEDIMENT BASIN.  4. PERFORM GRADING AND INSTALL STORM DRAINAGE.  5. INSTALL THE REMAINING SEDIMENT AND EROSION CONTROL PROTECTION.  6. INSTALL THE STONE BASE AND ASPHALT FOR THE ROAD UP TO PHASE 1 LIMITS.  7. PROVIDE GROUNDCOVER IN ACCORDANCE WITH DETAIL MARKED 'EROSION CONTROL MEASURES', THIS SHEET.  8. MONITOR AND MAINTAIN THE INSTALLED EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.  9. ONCE PHASE 1 DEVELOPMENT IS COMPLETE AND SITE IS SUBSTANTIALLY STABILIZED, FILL TEMPORARY DIVERSION DITCH. LEAVE SEDIMENT BASIN IN PLACE FOR PHASE 2 DEVELOPMENT.  10. RECONSTRUCT TEMPORARY DIVERSION DITCH.  11. REPEAT STEPS 4-8 FOR PHASE 2 CONSTRUCTION.  12. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.  13. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUNDCOVER IS NOT ADEQUATE. SKIMMER/SEDIMENT BASINS MAY NOT BE REMOVED UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. NCDEQ SHOULD BE NOTIFIED 10-DAYS PRIOR TO REMOVAL OF A BASIN.  14. UPON NCDEQ APPROVAL, SKIMMER, DISCHARGE PIPE, SPILLWAY, AND BAFFLES SHALL BE REMOVED AND GRADE BASIN AREAS ACCORDING TO FINISHED GRADES AND IMMEDIATELY SEED AND MULCH.  15. ONCE THE BASIN AREAS ARE VEGETATED AND THE REMAINDER OF THE SITE IS FULLY STABILIZED, REMOVE ANY REMAINING EROSION CONTROL DEVICES.</p> <p style="text-align: right;">NO SCALE</p>	<p>THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED ON ALL AREAS OF THE SITE WHICH ARE DISTURBED OR GRADED.</p> <p>PROVIDE A GROUNDCOVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY FOR SLOPES 3:1 OR FLATTER AND LESS THAN 50' IN LENGTH, FOR SLOPES 4:1 OR FLATTER OF ANY LENGTH (EXCEPT FOR PERIMETERS AND HOW ZONES), AND SLOPES NO STEEPER THAN 2:1 AND LESS THAN 10' IN LENGTH.</p> <p>PROVIDE GROUNDCOVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOR SLOPES STEEPER THAN 2:1 OR SLOPES 3:1 OR FLATTER GREATER THAN 50' IN LENGTH, FOR HIGH QUALITY WATER (HQW) ZONES, AND PERIMETER DIKES, SWALES, DITCHES AND SLOPES.</p> <p>PROVIDE GROUNDCOVER (TEMPORARY OR PERMANENT) ON ALL EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING; AND, A PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.</p> <p>THE CONTROL MEASURES SHALL BEGIN PRIOR TO ANY LAND DISTURBING ACTIVITY INCLUDING CLEARING, SHALL CONTINUE DURING CONSTRUCTION AND SHALL CONTINUE WITH THE NECESSARY MAINTENANCE UNTIL THE DISTURBED LAND IS PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION AND SEDIMENTATION WHICH SHALL BE THE ENTIRE RESPONSIBILITY OF THE CONTRACTOR. THIS PARAGRAPH IS INTENDED TO SERVE ONLY AS A GUIDE TO THE CONTRACTOR FOR COMPLIANCE WITH SUCH LAWS, ORDERS, RULES AND REGULATIONS CONCERNING EROSION AND SEDIMENTATION CONTROL PROTECTION OF EXISTING STRUCTURES AND FACILITIES FROM SEDIMENTATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITEMS TO BE PROTECTED SHALL INCLUDE, BUT ARE NOT LIMITED TO, CATCH BASINS, NATURAL WATERWAYS, DRAINAGE DITCHES, WALKS, DRIVES, ROADS, LAWNS, AND STREAMS.</p>	<p style="text-align: center;"><b>EROSION CONTROL MEASURES</b></p> <p style="text-align: right;">NO SCALE</p> <p><i>K. D. HAMBY</i> KIMBERLY D. HAMBY PROFESSIONAL ENGINEER SEAL 042614 10-31-25 KIMBERLY D. HAMBY ENGINEER</p> <p>THIS DRAWING PREPARED AT THE ELIZABETH CITY OFFICE 1805 West City Drive, Unit E   Elizabeth City, NC 27909 TEL 252.621.5030 FAX 252.562.6974 www.timmons.com</p> <p>REVISION DESCRIPTION</p>																											
	<p style="text-align: center;"><b>RIP RAP CHANNEL LINING</b></p> <p style="text-align: right;">NO SCALE</p>	<p style="text-align: center;"><b>SEEDBED PREPARATION</b></p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> <li>1. PREPARE SOIL AS NECESSARY TO ESTABLISH AN ADEQUATE SEEDBED FOR RECEIVING SEED USING TILLAGE AND/OR REMOVAL OF DEBRIS (ROCKS, ROOTS, OBSTRUCTIONS). CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.</li> <li>2. SOIL SHALL RECEIVE LIME, FERTILIZER, AND/OR SUPERPHOSPHATE UNIFORMLY AS NEEDED PER RECOMMENDATIONS FROM NORTH CAROLINA DEPARTMENT OF AGRICULTURE OR OTHER COMMERCIAL LABORATORY.</li> <li>3. SEED ON A FRESHLY PREPARED SEEDBED AND ENSURE SEED IS LIGHTLY COVERED FOLLOWING INSTALLATION.</li> <li>4. MULCH IMMEDIATELY AFTER SEEDING.</li> <li>5. CONTRACTOR SHALL SEED ALL AREAS THAT ARE DISTURBED WITHIN TWO DAYS. INSPECT ALL SEDED AREAS FOR WEEDS AND MAKE REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON. IF POSSIBLE, AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AN INSPECTION WILL BE COMPLETED TO DETERMINE IF ADDITIONAL SEEDING WILL BE REQUIRED.</li> </ol> <p>*APPLY: FERTILIZER, LIME, AND MULCH SHALL BE APPLIED AT RATES RECOMMENDED BY NCDA (OR OTHERS). OTHERWISE, APPLY AS DESCRIBED BELOW.</p> <p>AGRICULTURAL LIMESTONE - 1-1.5 TONS/ACRE ON COARSE TEXTURED SOILS AND 2-3 TONS/ACRE IN FINE-TEXTURED SOILS. SOIL WITH PH OF 6.0 OR LOWER SHOULD NOT BE LIMED. FERTILIZER - 700/1000 LBS/ACRE (10-10-10) MULCH - 2 TONS/ACRE (SMALL GRAIN STRAW) ANCHOR - ASPHALT EMULSION AT 450 GAL/ACRE</p>	<p><b>TIMMONS GROUP</b> NORTH CAROLINA LICENSE NO. C-1652</p> <p><b>BOSWOOD ESTATES CONSTRUCTION DRAWINGS</b></p> <p><b>EROSION CONTROL DETAILS</b></p> <p>11/05/2021 DRAWN BY BCD 12/21/2021 DESIGNED BY KDH 05/08/2024 CHECKED BY KDH 10/21/2025 SCALE NO SCALE</p>																											
	<p style="text-align: center;"><b>INLET PROTECTION</b></p> <p style="text-align: right;">NO SCALE</p>	<p style="text-align: center;"><b>PERMANENT SEEDING SCHEDULE FOR COASTAL PLAIN</b></p> <table border="1"> <thead> <tr> <th>DATE</th> <th>TYPE</th> <th>BROADCAST SEEDING RATES</th> </tr> </thead> <tbody> <tr> <td>OCT 1 - APR 1</td> <td>SERICEA LESPEDEZA</td> <td>15 LBS/ACRE</td> </tr> <tr> <td>AUG 30 - MAR 15</td> <td>KY 31 TALL FESCUE</td> <td>200-250 LBS/ACRE</td> </tr> <tr> <td>AUG 15 - APR 15</td> <td>RYE GRASS</td> <td>40 LBS/ACRE</td> </tr> <tr> <td>APR 15 - AUG 15</td> <td>GERMAN MILLET</td> <td>10 LBS/ACRE</td> </tr> </tbody> </table> <p style="text-align: center;"><b>TEMPORARY SEEDING SCHEDULE</b></p> <table border="1"> <thead> <tr> <th>DATE</th> <th>TYPE</th> <th>PLANTING RATES</th> </tr> </thead> <tbody> <tr> <td>DEC 1 - APR 15</td> <td>ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN)</td> <td>50 LBS/ACRE</td> </tr> <tr> <td>APR 15 - AUG 15 (COASTAL PLAIN)</td> <td>GERMAN MILLET</td> <td>40 LBS/ACRE</td> </tr> <tr> <td>AUG 15 - DEC 30 (COASTAL PLAIN)</td> <td>RYE</td> <td>120 LBS/ACRE</td> </tr> </tbody> </table>	DATE	TYPE	BROADCAST SEEDING RATES	OCT 1 - APR 1	SERICEA LESPEDEZA	15 LBS/ACRE	AUG 30 - MAR 15	KY 31 TALL FESCUE	200-250 LBS/ACRE	AUG 15 - APR 15	RYE GRASS	40 LBS/ACRE	APR 15 - AUG 15	GERMAN MILLET	10 LBS/ACRE	DATE	TYPE	PLANTING RATES	DEC 1 - APR 15	ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN)	50 LBS/ACRE	APR 15 - AUG 15 (COASTAL PLAIN)	GERMAN MILLET	40 LBS/ACRE	AUG 15 - DEC 30 (COASTAL PLAIN)	RYE	120 LBS/ACRE	<p>These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.</p>
DATE	TYPE	BROADCAST SEEDING RATES																												
OCT 1 - APR 1	SERICEA LESPEDEZA	15 LBS/ACRE																												
AUG 30 - MAR 15	KY 31 TALL FESCUE	200-250 LBS/ACRE																												
AUG 15 - APR 15	RYE GRASS	40 LBS/ACRE																												
APR 15 - AUG 15	GERMAN MILLET	10 LBS/ACRE																												
DATE	TYPE	PLANTING RATES																												
DEC 1 - APR 15	ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN)	50 LBS/ACRE																												
APR 15 - AUG 15 (COASTAL PLAIN)	GERMAN MILLET	40 LBS/ACRE																												
AUG 15 - DEC 30 (COASTAL PLAIN)	RYE	120 LBS/ACRE																												

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

CRAWFORD TOWNSHIP - CURRITUCK COUNTY - NORTH CAROLINA

UTILITY DETAILS

BOSWOOD ESTATES CONSTRUCTION DRAWINGS

CURRITUCK COUNTY - NORTH CAROLINA

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.

JOB NO.  
44845

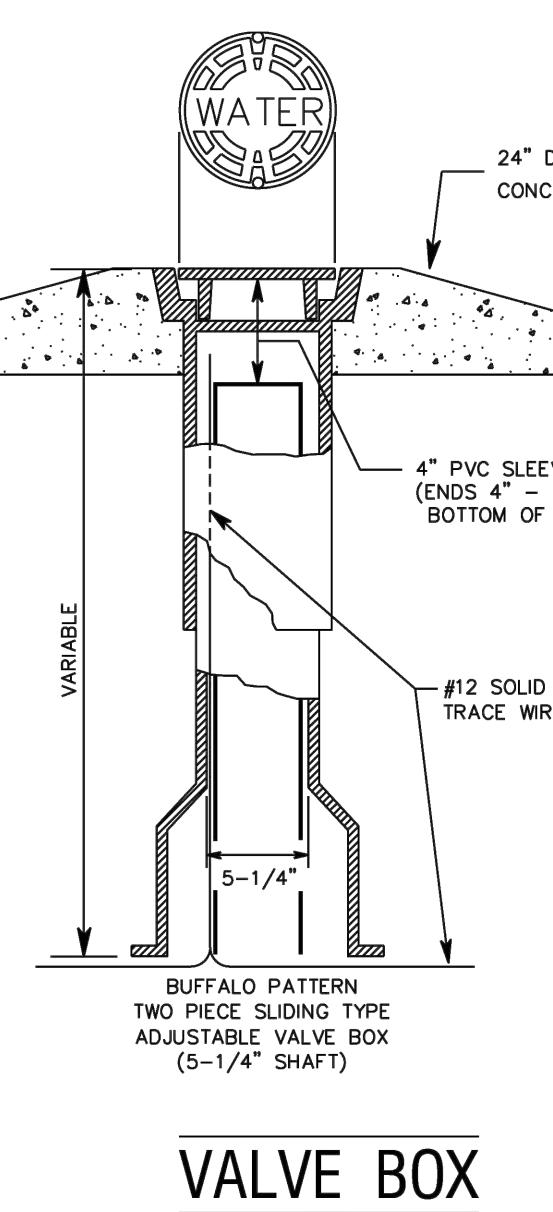
SHEET NO.  
C5.4



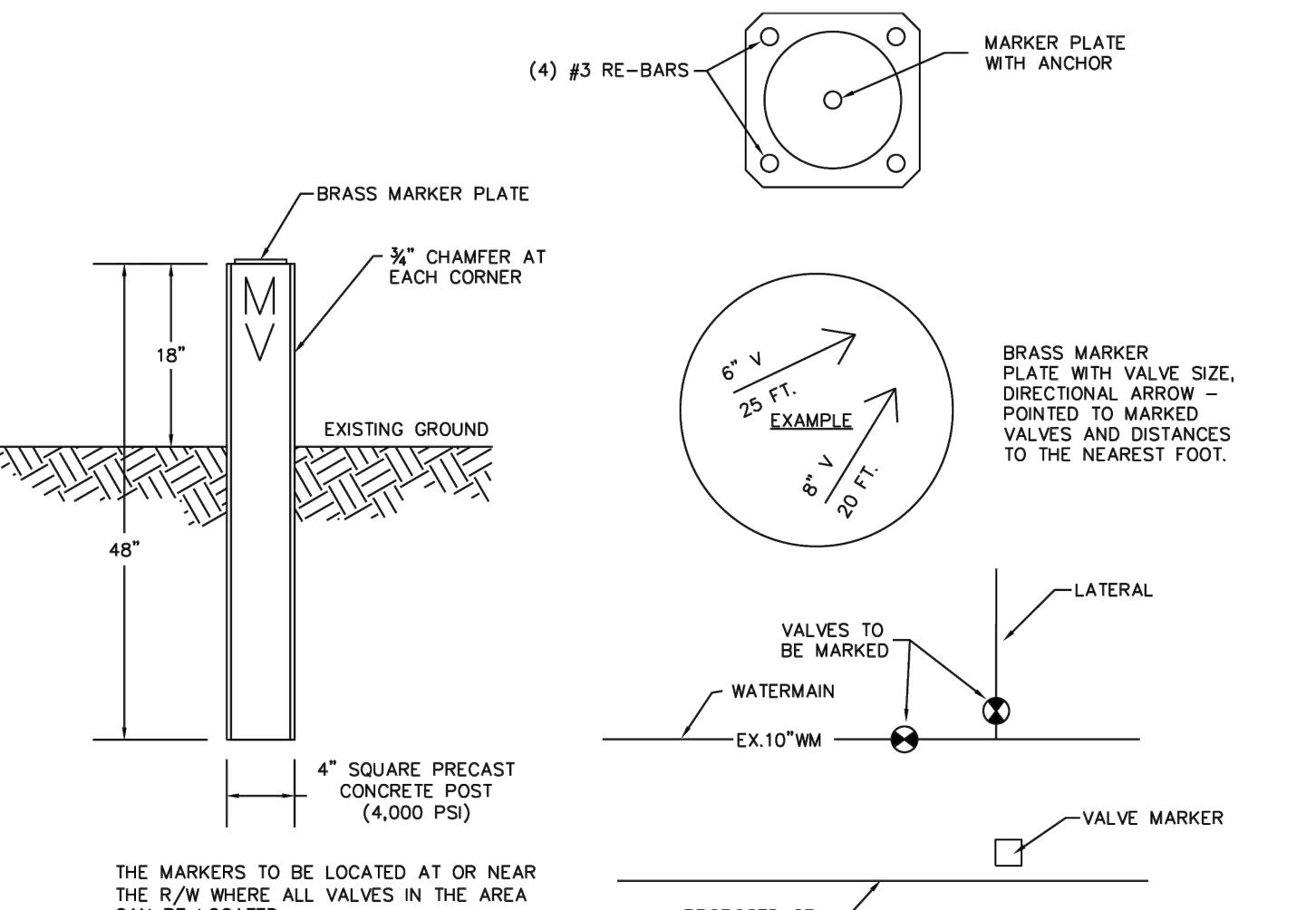
THIS DRAWING PREPARED AT THE  
ELIZABETH CITY OFFICE  
1805 West City Drive, Unit E | Elizabeth City, NC 27909  
TEL 252.621.5030 FAX 252.562.6974 www.timmons.com

REVISION DESCRIPTION

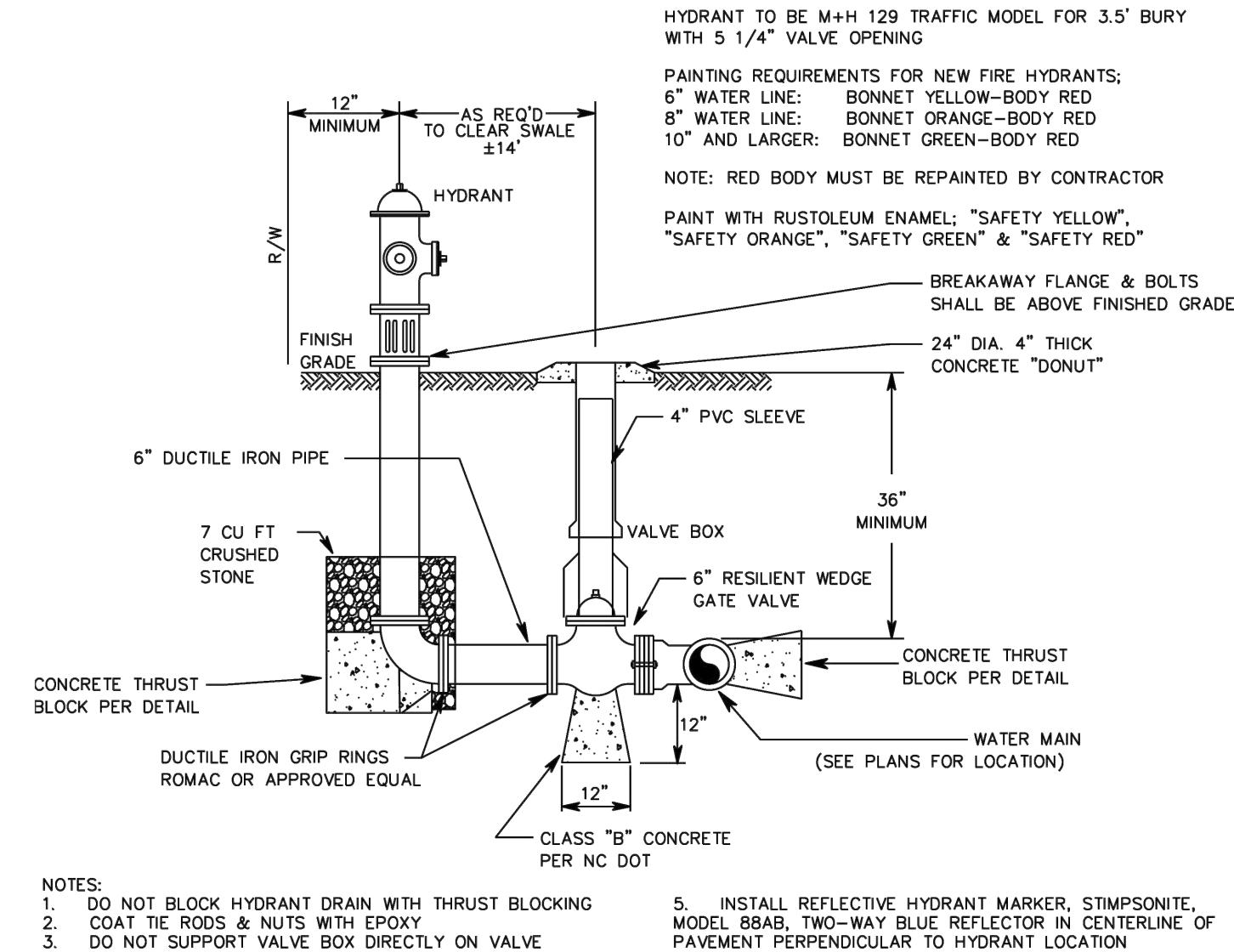
DATE 11/05/2021 REVISIONS PER TRC COMMENTS  
12/21/2021 REVISIONS FOR ADDITIONAL TRC COMMENTS  
DATE 05/08/2024 FEES DUE TO RAW INCREASE FOR MATTHEWS COURT  
09/11/2025 FEES DUE TO DOT REVIEW OF HYDRANT LOCATION  
10/31/2025 FEES PER COUNTY REVIEW COMMENTS



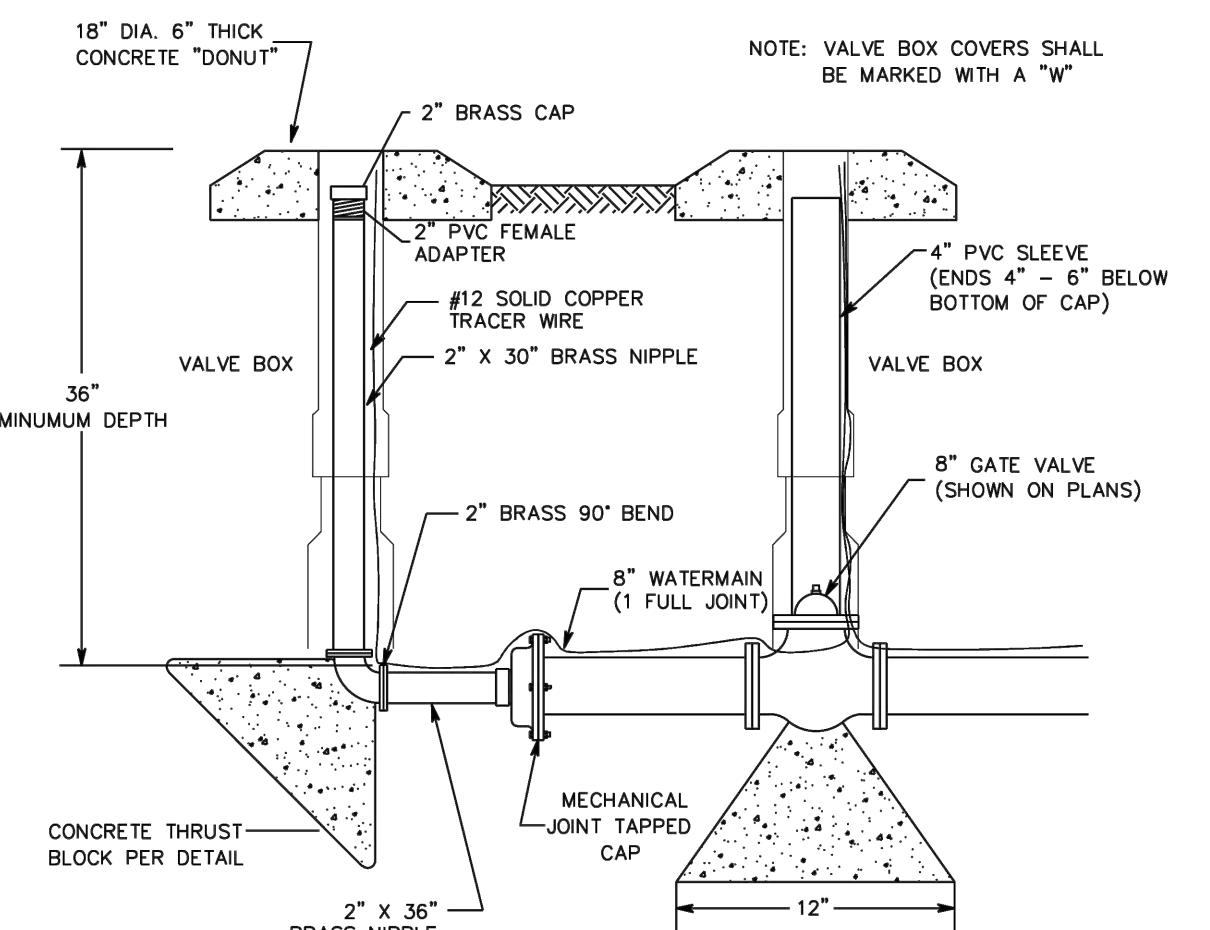
VALVE BOX  
NTS



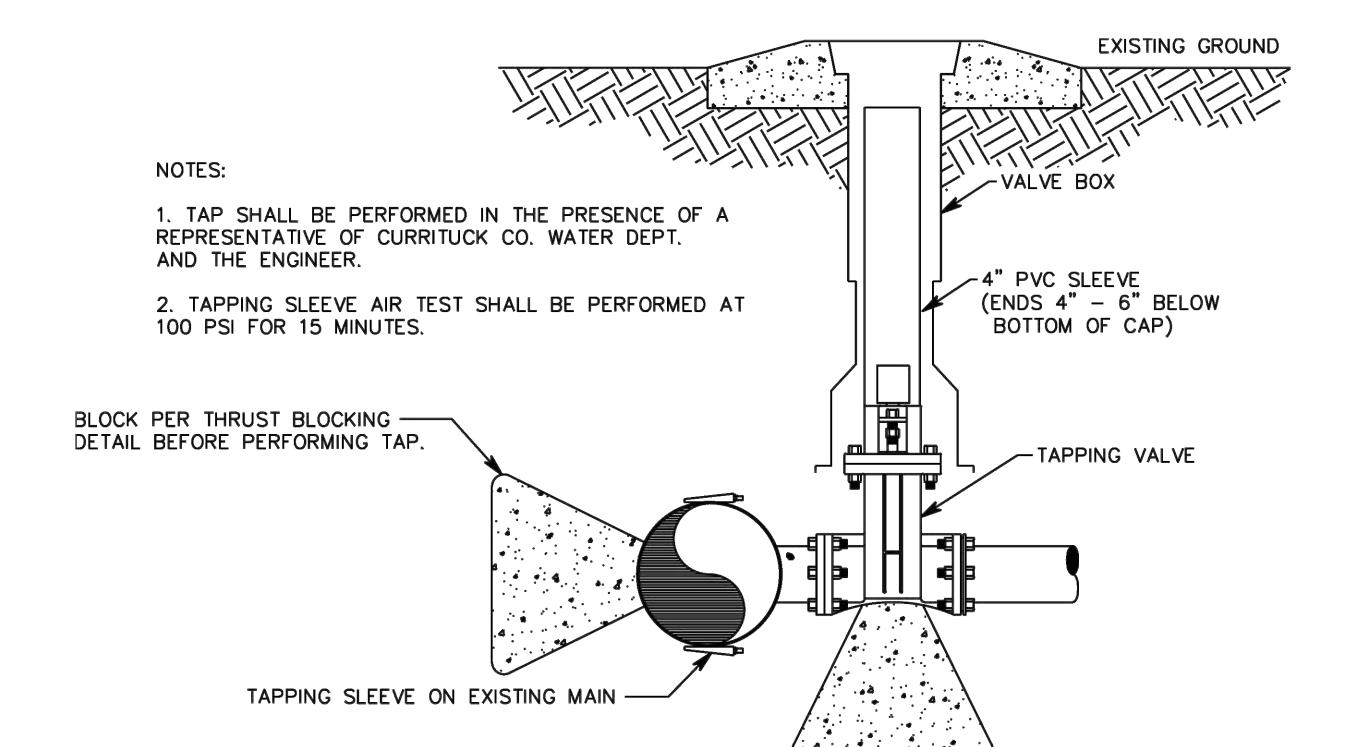
VALVE MARKER DETAIL  
NTS



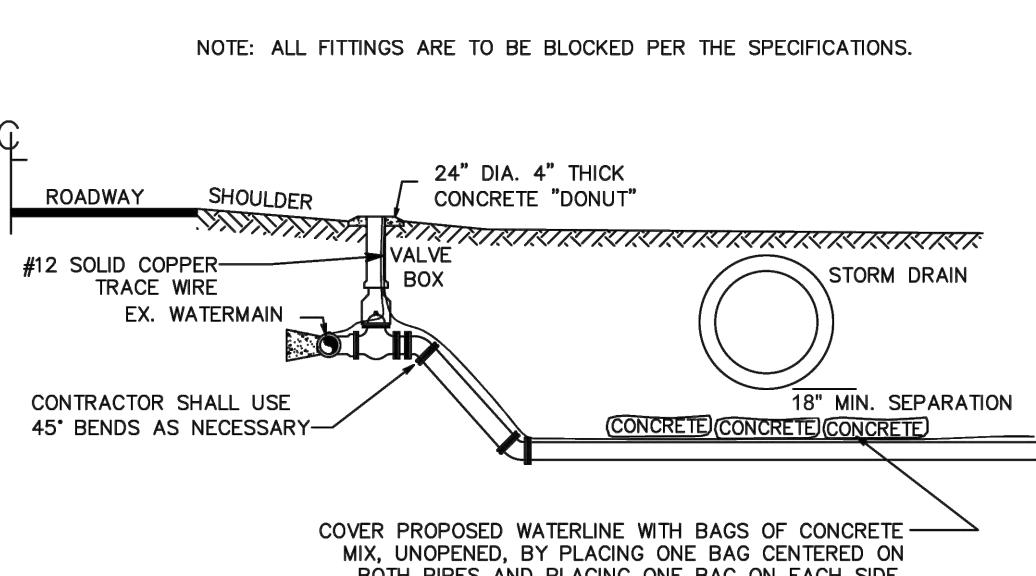
FIRE HYDRANT DETAIL  
NTS



TEMPORARY BLOW-OFF DETAIL  
NTS

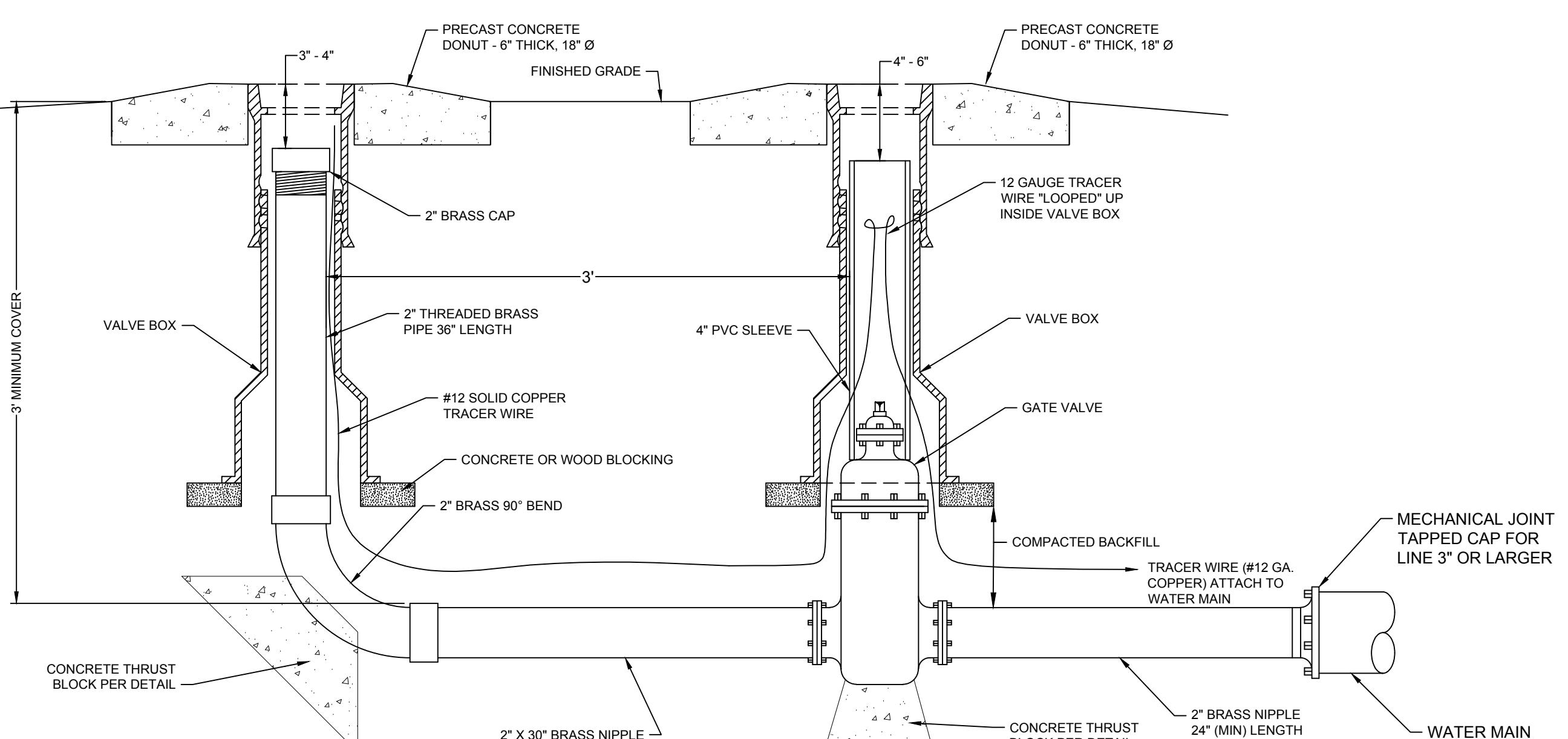


TAPPING DETAIL  
NTS



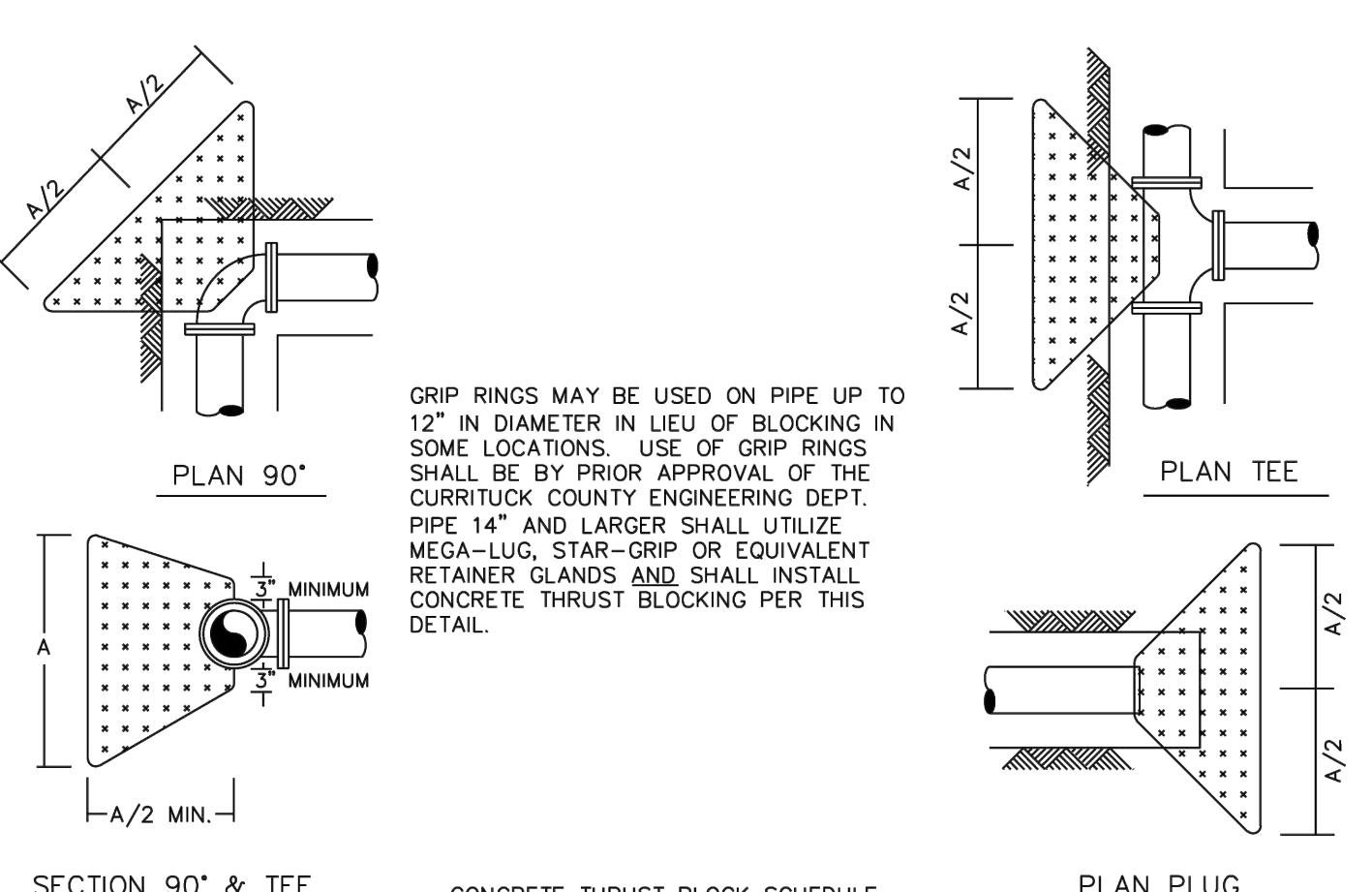
CULVERT CROSSING DETAIL  
NTS

WHEN BURYING AROUND THE END OF A CULVERT, THE UTILITY SHOULD BE LOCATED A MINIMUM OF 5 FEET FROM THE NEAREST PART OF THE CULVERT INCLUDING THE WINGWALLS AND SCOUR APRON, AND BURIED AT A MINIMUM DEPTH OF 2 FEET BELOW THE STREAM BED.



NOTES:  
1. VALVE BOX COVERS SHALL BE MARKED WITH A "W".  
2. BELL RESTRAINTS TO BE USED ON THE THREE BELLS PRIOR TO TAPPED CAP.

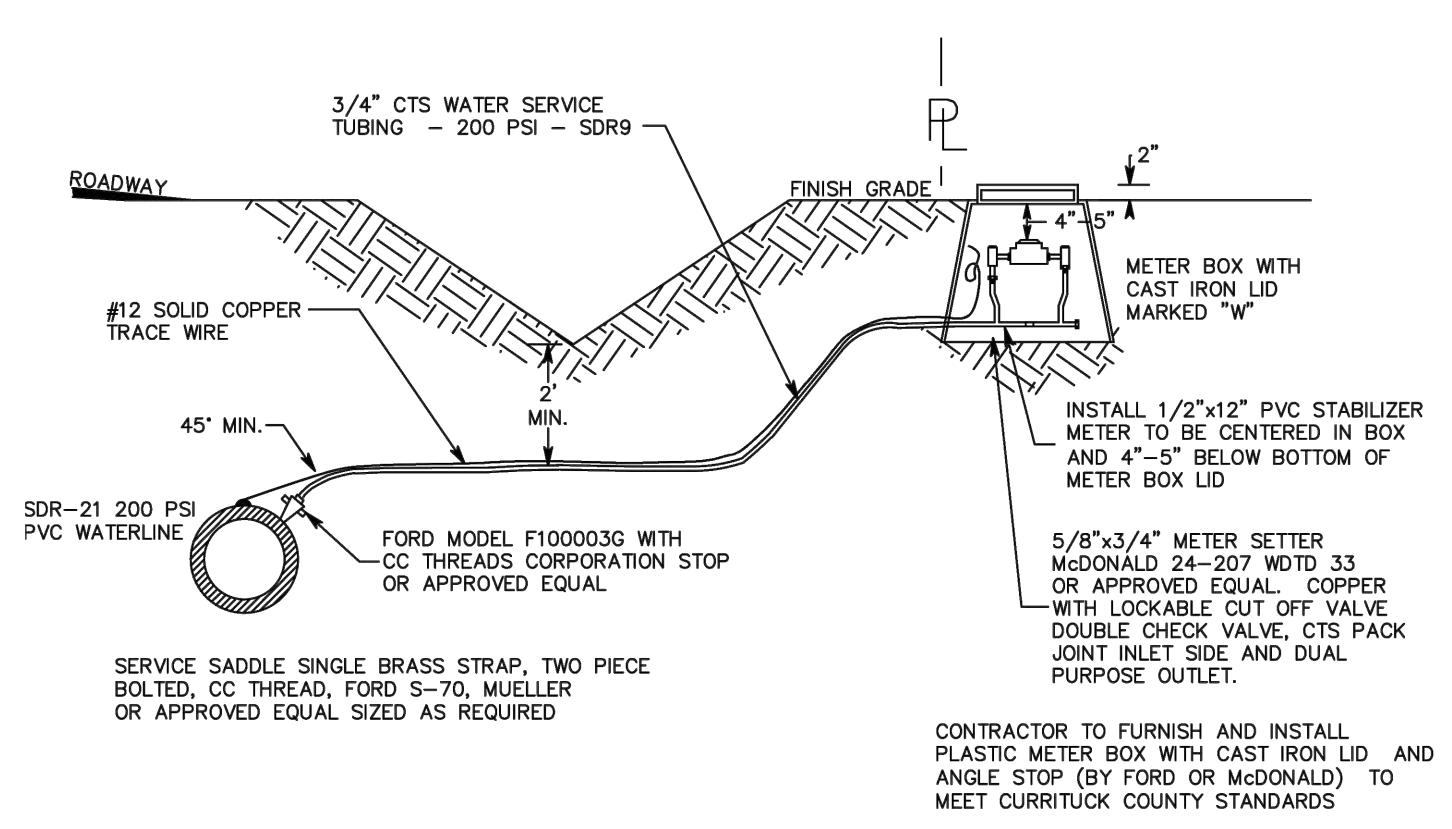
PERMANENT BLOW-OFF VALVE  
NO SCALE



THRUST BLOCK DETAIL  
NTS

FITTING	PIPE SIZE (NOM. DIA. IN INCHES)									
	2"	4"	6"	8"	10"	12"	16"	18"	20"	24"
TEE	1.6	1.9	2.8	3.8	4.7	5.9	7.5	8.5	9.4	11.3
90° BEND	1.5	1.9	2.8	3.8	4.7	5.9	7.5	8.5	9.4	11.3
45° BEND	1.0	1.4	2.1	2.8	3.5	4.3	5.5	6.2	6.9	7.7
22 1/2° BEND	.8	1.0	1.5	2.0	2.5	3.1	4.0	4.5	4.9	5.5

TABLE "A" DIMENSIONS (IN FEET)



3/4" WATER SERVICE LATERAL DETAIL  
NTS

HYDRANT TO BE M+H 129 TRAFFIC MODEL FOR 3.5' BURY WITH 5 1/4" VALVE OPENING  
PAINTING REQUIREMENTS FOR NEW FIRE HYDRANTS:  
6" WATER LINE: BONNET YELLOW-BODY RED  
8" WATER LINE: BONNET ORANGE-BODY RED  
10" AND LARGER: BONNET GREEN-BODY RED  
NOTE: RED BODY MUST BE REPAINTED BY CONTRACTOR  
PAINT WITH RUSTOLEUM ENAMEL: "SAFETY YELLOW", "SAFETY ORANGE", "SAFETY GREEN" & "SAFETY RED"  
BREAKAWAY FLANGE & BOLTS SHALL BE ABOVE FINISHED GRADE  
HYDRANT LEGS SHALL BE ABOVE FINISHED GRADE  
6" DUCTILE IRON PIPE  
7 CU FT CRUSHED STONE  
VALVE BOX  
6" RESILIENT WEDGE GATE VALVE  
CONCRETE THRUST BLOCK PER DETAIL  
DUCTILE IRON GRIP RINGS ROMAC OR APPROVED EQUAL  
WATER MAIN  
CLASS "B" CONCRETE PER NC DOT  
NOTES:  
1. DO NOT BLOCK HYDRANT DRAIN WITH THRUST BLOCKING  
2. COAT TIE RODS & NUTS WITH EPOXY  
3. DO NOT SUPPORT VALVE BOX DIRECTLY ON VALVE  
4. ALL JOINTS SHALL BE MECHANICAL JOINTS  
5. INSTALL REFLECTIVE HYDRANT MARKER, STIMSONITE, MODEL 88AB, TWO-WAY BLUE REFLECTOR IN CENTERLINE OF PAVED PERPENDICULAR TO HYDRANT LOCATION USING E-BOND EPOXY ADHESIVE 1240/1241 PER MANUFACTURERS SPECIFICATIONS.