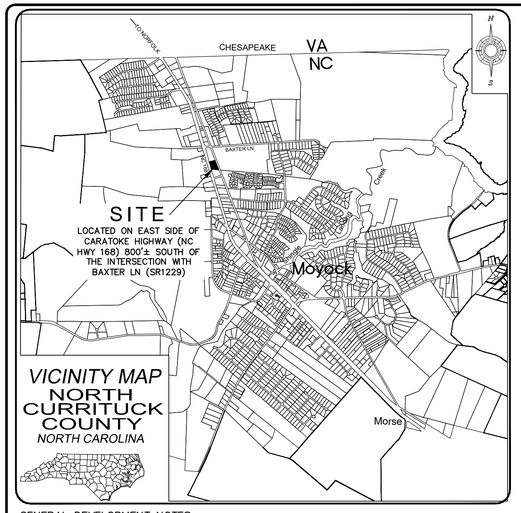
CONSTRUCTION DRAWINGS FOR

BAXTER CORNER

COMMERCIAL SITE DEVELOPMENT

MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA



GENERAL DEVELOPMENT NOTES:

1. PROJECT NAME: BAXTER CORNER

2. OWNER/APPLICANT: BENNA VICTOR HOLDINGS, LLC
dba ARSENAL ACQUISITIONS, SERIES 11
4445 CORPORATION LN, SUITE 151
VIRGINIA BEACH, VA 23462

3. PROPERTY DATA:
PARCEL ID#: 0009-000-025K-0000
PRIMARY ADDRESS: CARATOKE HWY, MOYOCK, NC 27958
RECORDED REFERENCES: D.B. 1706, PG. 338; P.C. R, SL. 211;
PROPERTY ZONING: CB GENERAL BUSINESS
LAND USE PLAN: LAND USE CLASS G2

4. F.I.R.M. DATA:
ZONE X – F.E.M.A. F.I.R.M. MAP NUMBER 3721802200 K, EFFECTIVE DATE DECEMBER 21, 2018. (SUBJECT TO CHANGE BY FEMA)
USE OF LAND WITHIN A FLOODWAY OR FLOOD PLAIN IS SUBSTANTIALLY RESTRICTED BY CHAPTER 7 OF THE CURRITUCK COUNTY UNIFIED DEVELOPMENT ORDINANCE.

5. PROPOSED USE:
A MIXED USE COMMERCIAL DEVELOPMENT THAT MAY INCLUDE A COMBINATION OF EATING ESTABLISHMENTS, OFFICES AND RETAIL SALES & SERVICES. INDIVIDUAL TENANT USES ARE SUBJECT TO CHANGE BASED ON MARKET DEMAND AND FUTURE DEVELOPMENT.

A SINGLE (4) UNIT BUILDING IS PROPOSED WITH INITIAL TENANT USES ANTICIPATED TO INCLUDE:
UNIT A–1: SPECIALTY EATING ESTABLISHMENT W/ DRIVE–THRU [COFFEE SHOP]
UNIT A–2: RETAIL SALES
UNIT A–3: RETAIL SALES
UNIT A–4: RESTAURANT

SOME RESTRICTIONS MAY APPLY IN ACCORDANCE WITH COUNTY ORDINANCES, NC BUILDING CODE AND FIRE PROTECTION.
[PROPERTY IS LESS THAN 4 ACRES, THEREFORE, THE USE IS NOT DEFINED AS A "SHOPPING CENTER."]

6. LOT COVERAGE DATA:
- PARCEL AREA: 99,130 SF (2.28 AC.)
- PROPOSED IMPERVIOUS COVERAGE:
BUILDING UNDER ROOF: 7,950 SF
PARKING & DRIVE: 25,472 SF
GRAVEL DRIVE: 3,807 SF
SIDEWALK & PATIO: 2,132 SF
DUMPSTER PAD: 210 SF
FUTURE ALLOCATION: 21,209 SF (NOT SHOWN THIS PLAN)
TOTAL: 60,780 SF (61.31% COVERAGE)

7. PARKING DATA:
- MINIMUM REQUIRED PARKING:
UNIT A–1: SPECIALTY EATING ESTABLISHMENT 2,265 SF @ 1/200 SF = 11.33 [INCLUDES COVERED PATIO]
UNIT A–2: RETAIL SALES 1,506 SF @ 1/300 SF = 5.02
UNIT A–3: RETAIL SALES 2,118 SF @ 1/300 SF = 7.06
UNIT A–4: RESTAURANT 1,606 SF @ 1/150 SF = 10.71
TOTAL = 34.12 SPACES REQUIRED
- PROVIDED PARKING:
TYPICAL 9' X 18' SPACES – 35
TYP. ACCESSIBLE SPACES – 2
TOTAL = 37 SPACES PROVIDED

8. WASTEWATER DATA:
- WASTEWATER COLLECTION SHALL BE INSTALLED IN ACCORDANCE WITH CURRITUCK COUNTY STANDARDS AND THESE PLANS.
- WASTEWATER TREATMENT AND DISPOSAL TO BE PROVIDED BY CURRITUCK COUNTY SEWER AUTHORITY.
- DAILY DESIGN FLOW ALLOCATIONS:
UNIT A–1: SPECIALTY EATING ESTABLISHMENT (50) SEATS @ 20 GPD/SEAT = 1,000 GPD
UNIT A–2: RETAIL SALES 1,506 SF @ 100 GPD/1000 SF = 151 GPD
UNIT A–3: RETAIL SALES 2,118 SF @ 100 GPD/1000 SF = 212 GPD
UNIT A–4: RESTAURANT (40) SEATS @ 40 GPD/SEAT = 1,600 GPD
POSSIBLE FUTURE USE ALLOCATION: UNKNOWN = 4,037 GPD
TOTAL = 7,000 GPD

9. UTILITIES:
- DOMESTIC WATER SERVICE TO BE PROVIDED BY CURRITUCK COUNTY MAINLAND WATER SYSTEM.
- DESIGN AND INSTALLATION OF FRANCHISE UTILITIES SHALL BE COORDINATED DIRECTLY WITH THE RESPECTIVE UTILITY COMPANY.
- ALL UTILITIES ARE TO BE INSTALLED UNDERGROUND.

10. MAXIMUM BUILDING HEIGHT: 35'

11. TOTAL PROPOSED DISTURBED AREA: 2.37 AC.

12. ALL SIGNAGE SHALL COMPLY WITH COUNTY STANDARDS AS PRESCRIBED UNDER SECTION 5.12 OF THE UDO. A SEPARATE SIGNAGE PLAN MAY BE REQUIRED FOR APPROVAL PRIOR TO INSTALLATION.

13. PROPERTY BOUNDARY AND EXISTING SITE CONDITION INFORMATION BASED ON A COMBINATION OF THE FOLLOWING:
- FIELD SURVEY PERFORMED BY BISSELL PROFESSIONAL GROUP
- 2024 AERIAL IMAGERY OBTAINED FROM NCONEMAP.GOV
- SITE PLANS FOR 7–ELEVEN MOYOCK PREPARED BY KIMLEY HORN
- ELEVATIONS ARE REFERENCED TO NAVD 1988 VERTICAL DATUM.

14. BUILDING DIMENSIONS BASED ON FLOOR PLANS TITLED "MOYOCK RETAIL 251 CARATOKE HWY. – NC 168 MOYOCK TOWNSHIP, NC" PREPARED FINLEY DESIGN, PA, DATED 10/14/26.

THE FOLLOWING PERMITS ARE REQUIRED PRIOR TO PROJECT CONSTRUCTION:

PERMIT	AGENCY	REFERENCE NUMBER	DATE OF ISSUANCE
SEDIMENTATION AND EROSION CONTROL PERMIT	N.C.D.E.Q. - DIVISION OF LAND RESOURCES		
STORMWATER MANAGEMENT HIGH DENSITY PERMIT	N.C.D.E.Q - DIVISION OF LAND RESOURCES		
DRIVEWAY PERMIT	NCDOT		
ENCROACHMENT AGREEMENT	NCDOT		
WASTEWATER COLLECTION SYSTEM PERMIT	N.C.D.E.Q. - DIVISION OF WATER RESOURCES		
CURRITUCK COUNTY CONSTRUCTION AUTHORIZATION	CURRITUCK COUNTY PLANNING STAFF		

Sheet List Table

Sheet Number	Sheet Title
1	COVER SHEET, DEVELOPMENT NOTES AND SITE LOCATION
2	EXISTING SITE CONDITIONS & DEMOLITION PLAN
3	SITE DEVELOPMENT OVERVIEW
4	GRADING, DRAINGE AND STORMWATER MANAGEMENT PLAN
5	EROSION AND SEDIMENT CONTROL PLAN
6	WATER SERVICE & WASTEWATER COLLECTION SYSTEM PLAN
7	WATER AND SEWER SYSTEM PLAN & PROFILES
8	LANDSCAPING, SCREENING, BUFFERING AND LIGHTING PLAN
9	ROADWAY, SIDEWALK & DRAINAGE TYPICAL CONSTRUCTION DETAILS
10	STORMWATER MANAGMENT TYPICAL CONSTRUCTION DETAILS
11	EROSION & SEDIMENT CONTROL CONSTRUCTION NOTES & DETAILS
12	EROSION & SEDIMENT CONTROL NCG01 - INSPECTION & REPORTING NOTES
13	EROSION & SEDIMENT CONTROL NCG01- GROUND COVER & MATERIALS NOTES
14	WASTEWATER LIFT STATION TYPICAL CONSTRUCTION DETAILS
15	WASTEWATER COLLECTION SYSTEM TYP. CONSTRUCTION DETAILS
16	WASTEWATER COLLECTION SYSTEM TYP. CONSTRUCTION DETAILS

STORMWATER CERTIFICATE

I, _____, OWNER/AGENT HEREBY CERTIFY THE INFORMATION INCLUDED ON THIS AND ATTACHED PAGES IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

ON THE PLAN ENTITLED, BAXTER CORNER – COMMERCIAL SITE DEVELOPMENT PLANS – GRADING, DRAINAGE & STORMWATER PLAN, STORMWATER DRAINAGE IMPROVEMENTS SHALL BE INSTALLED ACCORDING TO THESE PLANS AND SPECIFICATIONS AND APPROVED BY CURRITUCK COUNTY. YEARLY INSPECTIONS ARE REQUIRED AS PART OF THE STORMWATER PLAN. THE OWNER IS RESPONSIBLE FOR ALL MAINTENANCE REQUIRED. CURRITUCK COUNTY ASSUMES NO RESPONSIBILITY FOR THE DESIGN, MAINTENANCE, OR PERFORMANCE OF THE STORMWATER IMPROVEMENTS.

_____ _____
DATE OWNER/AGENT

North Carolina One-Call Center Inc.
811
Know what's below Call before you dig.

PLAN LEGEND

	ROADWAY CENTERLINE
	RIGHT–OF–WAY
	PROPERTY BOUNDARY
	ADJOINING PROPERTY LINE
	EXISTING DITCH CENTERLINE
	EXISTING DITCH TOP OF BANK
	PROPOSED SWALE W/ FLOW ARROW
	PROPOSED SWALE HIGH POINT
	EXISTING DITCH TO BE FILLED
FEMA FEMA	FEMA BOUNDARY LINE
6	EXISTING GRADE CONTOUR
6	PROPOSED GRADE CONTOUR
X 0.00	EXISTING SPOT GRADE
•0.00	PROPOSED SPOT GRADE
	EXISTING CULVERT
	PROPOSED CULVERT
D	PROPOSED DRAINAGE STRUCTURE
EWL EWL	EXISTING WATER LINE
WL WL	PROPOSED WATER LINE (SIZE AS NOTED)
	PROPOSED FIRE HYDRANT ASSEMBLY
	PROPOSED WATER SERVICE
	PROPOSED VALVE
	PROPOSED SEWER COLLECTION MAIN
S	PROPOSED SEWER MANHOLE
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED SILT FENCE
D	PROPOSED INLET PROTECTION
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE
	PROPOSED TEMPORARY CHECK DAM

SOILS LEGEND

	SOILS LINE
Ds	DRAGSTON LOAMY FINE SAND
Ro	ROANOKE FINE SANDY LOAM

SURVEY LEGEND

SCM□	SET CONCRETE MONUMENT
SIR •	SET IRON ROD
EIR ○	EXISTING IRON ROD
EIP ●	EXISTING IRON PIPE
CP o	CALCULATED POINT
M.B.L.	MAXIMUM BUILDING LIMIT
N.T.S.	NOT TO SCALE
P.C.	PLAT CABINET
D.B.	DEED BOOK
SL	SLIDE
SF	SQUARE FEET
AC	ACRES

NOTE:
EXISTING SITE INFORMATION DESCRIBED HEREON IS BELIEVED TO BE ACCURATE, HOWEVER, BPG INC. MAKES NO WARRANTY AS TO THE ACCURACY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION BEFORE RELYING ON IT. THE CONTENT OF THESE DOCUMENTS MAY ALSO INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. IF SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE SCHEDULED WORK AND MAY CONTINUE AFTER AN AUTHORIZATION TO PROCEED HAS BEEN GRANTED.

BISSELL PROFESSIONAL GROUP
Bissell Professional Group
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151 East Dixon Boulevard
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FAX (252) 261-1760
Engineers, Planners, Surveyors and Environmental Specialists

COVER SHEET, DEVELOPMENT NOTES AND SITE LOCATION

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PROJECT: BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

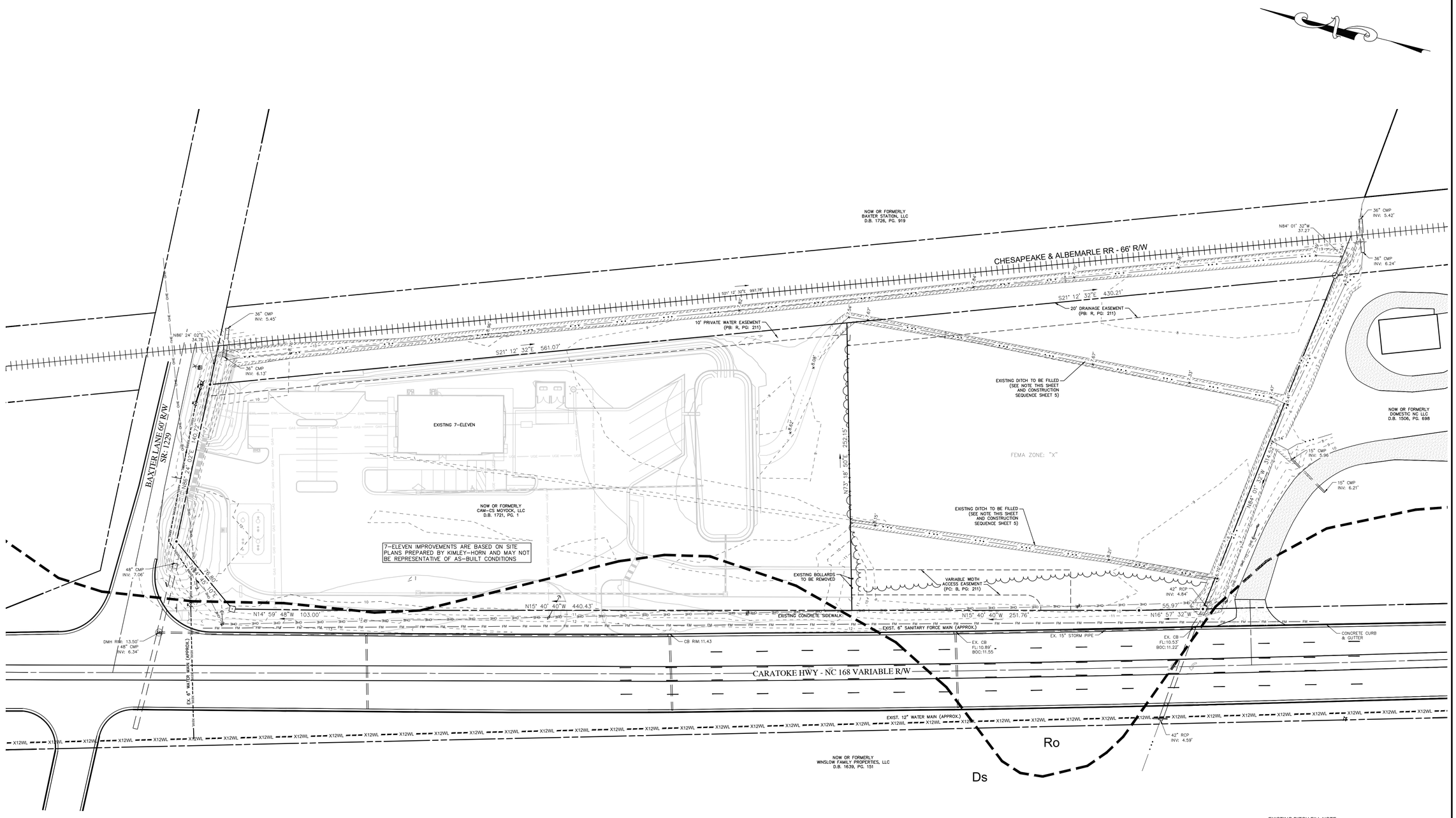
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PROJECT NO: 4740

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EXISTING DITCH FILL NOTE:
EXISTING DITCHES NOTED AS BEING FILLED SHALL BE DEMUCKED AND BACKFILLED WITH CLEAN, COMPACTED SELECT MATERIAL. DITCH FILLING SHALL COINCIDE WITH DRAINAGE PATTERNS AND EROSION CONTROL MEASURES AS PROVIDED IN THESE PLANS.

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EXISTING SITE CONDITIONS & DEMOLITION PLAN

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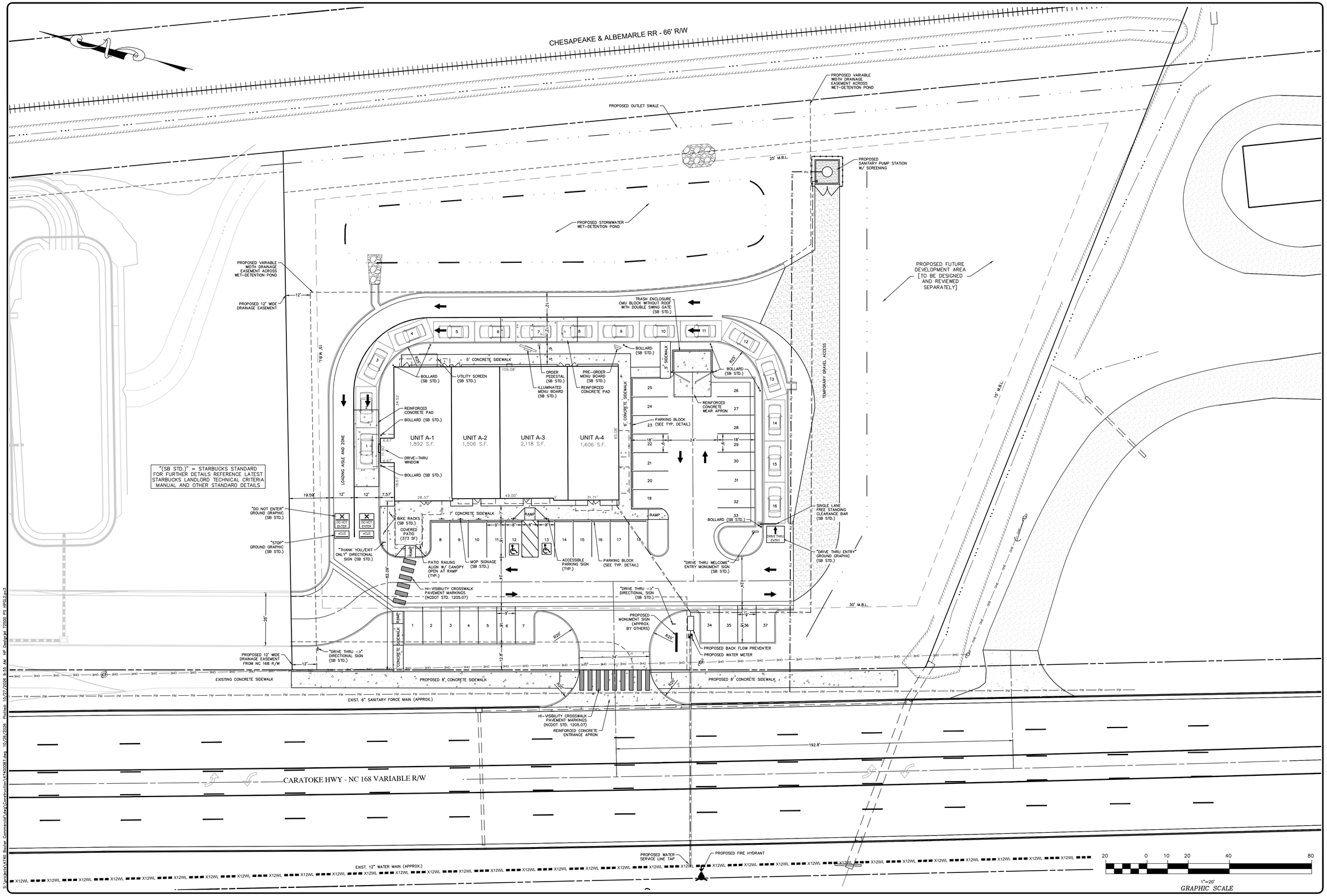
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SITE DEVELOPMENT
OVERVIEW PLAN

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BAXTER CORNER

MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

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COMMERCIAL SITE DEVELOPMENT PLANS

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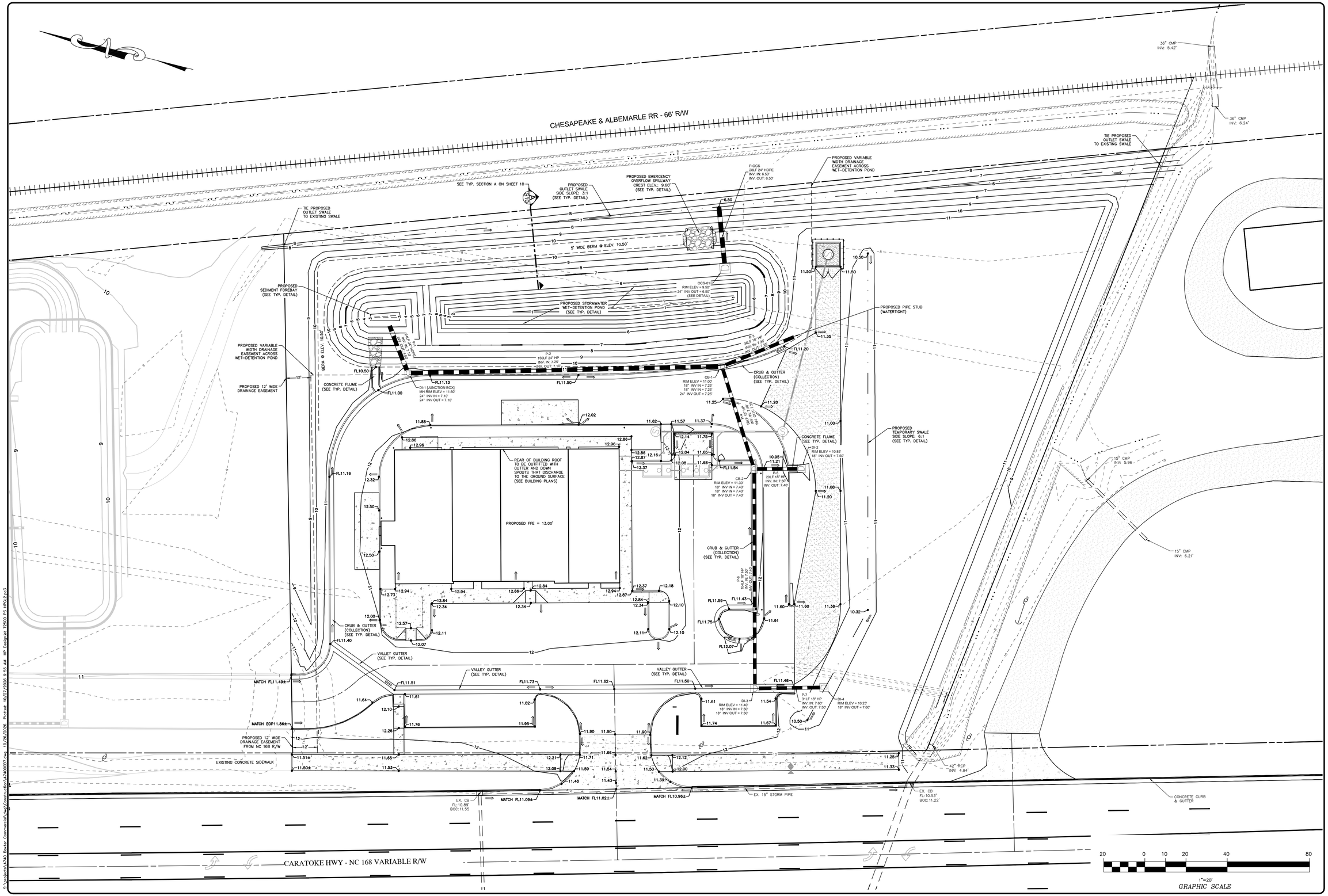
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GRADING, DRAINAGE AND STORMWATER MANAGEMENT PLAN

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PROJECT:
BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

COMMERCIAL SITE DEVELOPMENT PLANS

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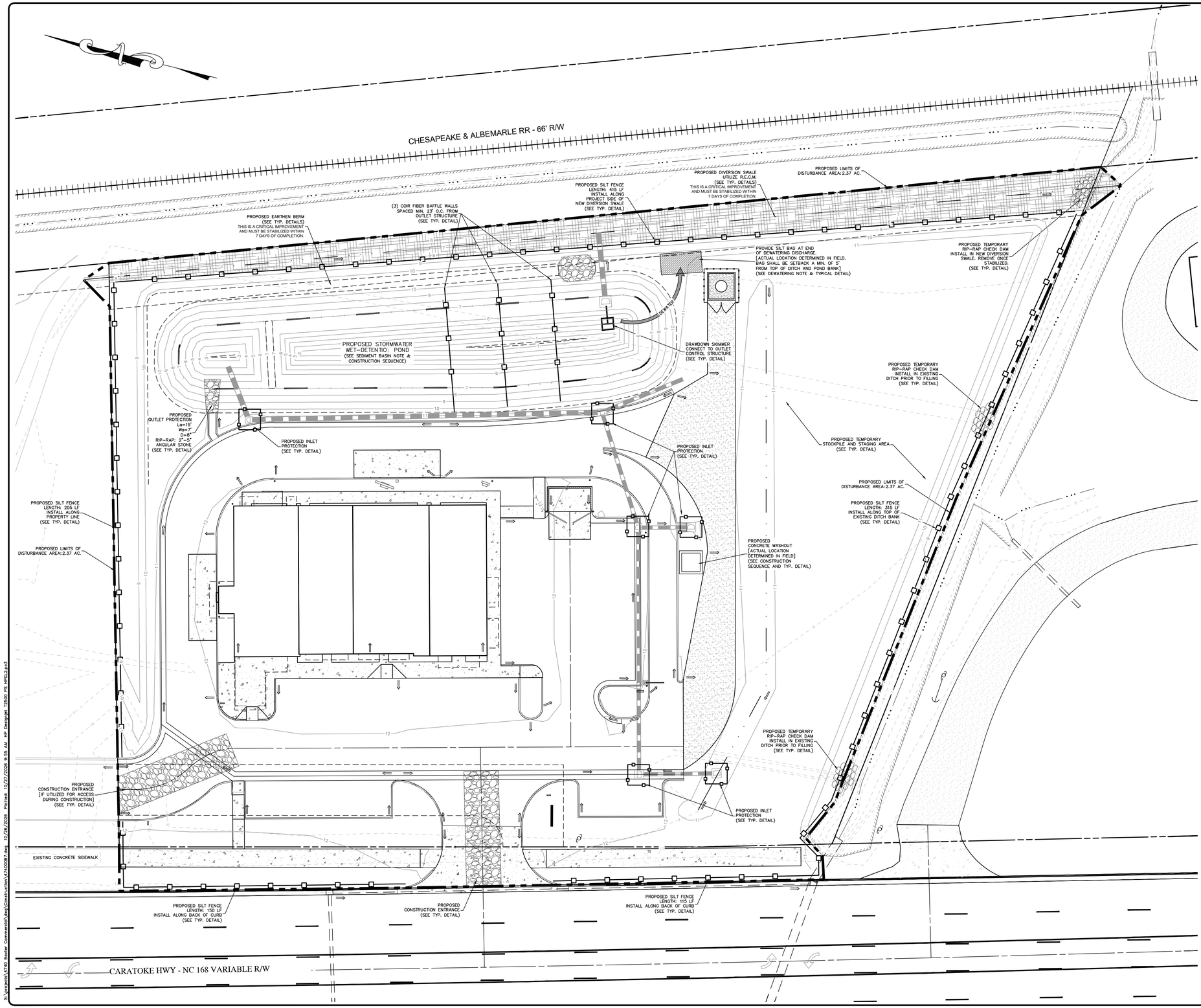
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SEDIMENTATION AND EROSION CONTROL NOTES

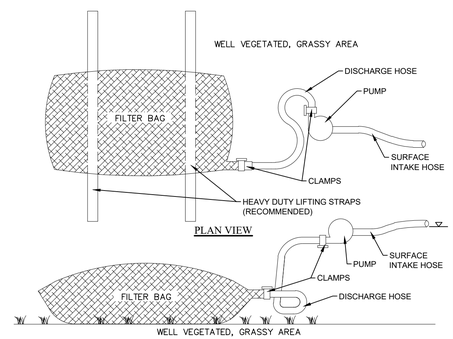
1. THESE NOTES ARE IN ADDITION TO THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS PROVIDED ON SHEETS 11, 12 & 13.
2. ALL MATERIALS EXCAVATED OVER THE COURSE OF CONSTRUCTION SHALL REMAIN ON THE PROJECT SITE. THIS MATERIAL SHALL BE USED FOR FILLING EXISTING DITCHES, CONSTRUCTION OF THE BUILDING SITE AND PARKING AS ILLUSTRATED ON THE GRADING PLANS. IF NECESSARY, EXCAVATED MATERIALS REMAINING AT THE END OF CONSTRUCTION MAY BE DISPOSED OF OFF-SITE AT AN APPROVED AND PERMITTED BORROW PIT.
3. OFF-SITE BORROW, IF NECESSARY, MUST BE OBTAINED FROM AN APPROVED AND PERMITTED BORROW PIT.
4. DURING THE COURSE OF CONSTRUCTION, EXCAVATED AND BORROW MATERIALS MAY BE TEMPORARILY STOCKPILED AS NECESSARY WITHIN THE LIMITS OF DISTURBANCE. STOCK PILE AREAS MUST BE LOCATED A MINIMUM OF 50' FROM EXISTING AND PROPOSED STORM DRAIN INLETS. TEMPORARY DRAINAGE DIVERSIONS, CHANNELS, BASINS AND SURFACE WATER BODIES. SEE PLAN FOR POSSIBLE LOCATIONS THAT MAY BE FIELD ADJUSTED AS NECESSARY AS LONG AS THE 50' SEPARATIONS DESCRIBED ABOVE ARE PROVIDED. STOCKPILE AREAS MAY ALSO BE USED FOR CONSTRUCTION STAGING. ENSURE ADEQUATE MEASURES ARE INSTALLED AROUND STOCKPILE AREAS AS SPECIFIED IN THE TYPICAL DETAIL ON SHEET 11.
5. THIS PROJECT IS ANTICIPATED TO BE CONSTRUCTED IN A SINGLE PHASE.
6. NO GREATER THAN 2.37 ACRES OF LAND SHALL BE DISTURBED AT ONE TIME. CONSTRUCTION AND STABILIZATION ACTIVITIES SHALL, TO THE MAXIMUM EXTENT PRACTICABLE, BE SCHEDULED ACCORDINGLY.
7. THE FOLLOWING PROVIDES AN ESTIMATED MATERIAL BALANCE OF THE PROJECT:
   APPROXIMATE CUT VOLUME: 1,000 CY±
   APPROXIMATE FILL VOLUME: 8,500 CY±
   *THE VALUES ARE GROSS ESTIMATES AND ARE PROVIDED FOR PERMITTING PURPOSES ONLY. COMPACTION AND SUITABILITY OF SOILS FOR USE IN CONSTRUCTION ARE NOT CONSIDERED AND ADDITIONAL MATERIAL MAY BE NECESSARY. CONTRACTORS SHALL NOT RELY UPON THESE ESTIMATES AND SHOULD DETERMINE THEIR OWN MATERIAL NEEDED FOR CONSTRUCTION.

CONSTRUCTION SEQUENCE

1. INSTALL CONSTRUCTION ENTRANCE WHERE SPECIFIED AT CONNECTION TO CARATOKE HWY AND, IF NECESSARY, ACCESS ROAD TO 7-11. INSTALLATION MAY BE STAGGERED BASED ON RELATED CONSTRUCTION ACTIVITIES AND SCHEDULE.
2. INSTALL SILT FENCE WHERE SPECIFIED ALONG DISTURBANCE LIMITS. IN WOODED AREAS, CONTRACTOR MAY CONSIDER CLEARING AN INITIAL PATH TO FACILITATE PROPER INSTALLATION OF THE SILT FENCE AND PROVIDE PROTECTION FROM CLEARING & GRUBBING ACTIVITIES.
3. INSTALL TEMPORARY CHECK DAMS WHERE SPECIFIED WITHIN EXISTING DITCHES.
4. CLEAR & GRUB EXISTING WOODLANDS ACROSS DEVELOPMENT SITE.
5. CONSTRUCT OUTLET SWALE ALONG EASTERN BOUNDARY WITH RAILROAD AS SPECIFIED. THIS IS A CRITICAL IMPROVEMENT AND MUST BE STABILIZED WITHIN 7 DAYS OF COMPLETION.
6. INSTALL TEMPORARY CHECK DAM AND R.E.C.M. WHERE SPECIFIED WITHIN NEW OUTLET SWALE.
7. INSTALL SILT FENCE WHERE SPECIFIED ALONG TOP OF BANK OF NEW OUTLET SWALE.
8. FILL EXISTING DITCHES CROSSING THE DEVELOPMENT SITE.
9. EXCAVATE PROPOSED WET-DETENTION POND. EXCAVATED MATERIALS MAY BE TEMPORARILY STOCKPILED IN ACCORDANCE WITH S&EC NOTE #4 AND TYPICAL DETAIL. DURING CONSTRUCTION, THE POND SHALL BE UTILIZED AS A TEMPORARY SEDIMENT BASIN. THIS IS A CRITICAL IMPROVEMENT AND MUST BE STABILIZED WITHIN 7 DAYS OF COMPLETION.
10. INSTALL THE OUTLET CONTROL STRUCTURE, SKIMMER, OVERFLOW SPILLWAY AND BAFFLES AS SPECIFIED.
11. CONDUCT GENERAL CONSTRUCTION ACTIVITIES FOR INSTALLATION OF PROPOSED BUILDING, PARKING, DRAINAGE AND UTILITY IMPROVEMENTS. DURING THIS STATE OF CONSTRUCTION, ALL INTERNAL RUNOFF SHALL BE CONVEYED TO THE SEDIMENT BASIN FOR TREATMENT AND DISCHARGE. TEMPORARY INTERNAL DRAINAGE MEASURES SUCH AS SWALES AND CULVERTS MAY BE UTILIZED AS DETERMINED NECESSARY BY THE CONTRACTOR.
12. INSTALL INLET PROTECTION AROUND CATCH BASINS AND DROP INLETS AS CONSTRUCTED.
13. BEFORE CONCRETE WORK BEGINS, INSTALL CONCRETE WASHOUT AT LOCATION DETERMINED IN THE FIELD.
14. DURING THE COURSE OF CONSTRUCTION, MAINTAIN SILT FENCE, TEMPORARY CHECK DAMS, INLET PROTECTION AND ANY ADDITIONAL PROTECTION MEASURES AS NECESSARY AND WHERE NOTED.
15. PERMANENTLY SEED AND STABILIZED ALL DISTURBED AREAS.
16. AFTER STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, CLEAN OUT AND RETURN WET-DETENTION POND TO DESIGN CONDITIONS AND SEED & STABILIZE THOSE AREAS.

SEDIMENT BASIN NOTE
DURING CONSTRUCTION, THE **WET-DETENTION POND** SHALL BE UTILIZED AS AN EROSION & SEDIMENT CONTROL SEDIMENT BASIN. AFTER CONSTRUCTION IS COMPLETE AND THE SITE IS PROPERLY STABILIZED THE POND SHALL BE CLEANED AND RESTORED TO ITS DESIGN SPECIFICATIONS AND THE BANKS PERMANENTLY STABILIZED **WITHIN 7 DAYS.**

DEWATERING NOTE
DEWATERING FOR THE EXCAVATION OF **WET-DETENTION POND** SHALL BE DIRECTED TO THE STABILIZED OUTLET SWALE IN THE VICINITY SPECIFIED THIS SHEET. THE DEWATERING PUMP INTAKE SHALL DRAW FROM THE POND'S WATER SURFACE AND THE OUTLET SHALL DISCHARGE THROUGH A SILT BAG. (SEE TYPICAL SILT BAG DETAIL)



SEDIMENT FILTER BAG DETAIL

NOT TO SCALE LOCATIONS AS NOTED ON PLAN

SEDIMENT FILTER BAG CONSTRUCTION SPECIFICATION
THE FOLLOWING IS IN ADDITION TO THE "CONSTRUCTION SEQUENCE SCHEDULE" PROVIDED UNDER THE EROSION AND SEDIMENT CONTROL SPECIFICATIONS.

1. THE FILTER BAG SHALL BE CONTINUOUSLY MONITORED DURING OPERATION.
2. INTAKE HOSE FOR PUMPING OPERATION SHALL UTILIZE FLOATS TO DRAW FROM SURFACE OF WATER SOURCE.
3. SEE PLAN SHEETS FOR APPROXIMATE LOCATION OF SEDIMENT FILTER BAG PER PHASE.

MAINTENANCE OF SEDIMENT FILTER BAG

1. INSPECT THE FILTERING DEVICES DAILY AND REPAIR OR REPLACE ONCE THE SEDIMENT BUILDUP PREVENTS THE STRUCTURE FROM FUNCTIONING AS DESIGNED.
2. REMOVE THE ACCUMULATED SEDIMENT FROM THE DEWATERING DEVICE, SPREAD ON SITE, AND STABILIZE OR DISPOSE OF AT AN APPROVED DISPOSAL SITE AS PER APPROVED PLAN.
3. MONITOR THE DEWATERING STRUCTURE DURING OPERATION TO ENSURE THAT THE DISCHARGE IS NOT CAUSING EROSION. PROVIDE SOIL STABILIZATION BLANKETS AND MATTING OR COMPOST FILTER SOCKS AS NEEDED TO MAINTAIN STABILIZED AREAS DOWNSTREAM OF STRUCTURE.

20 0 10 20 40 80
1"=20'
GRAPHIC SCALE

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Fuquay-Varina, North Carolina 27949
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EROSION AND SEDIMENT CONTROL PLAN

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PROJECT:
BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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CAD FILE: 474000B7

PROJECT NO: 4740

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CHESAPEAKE & ALBEMARLE RR - 66' R/W

25' M.B.L.

PROPOSED YARD HYDRANT W/ BACKFLOW PREVENTER (SEE TYP. DETAIL)

LS-01
RIM ELEV = 12.00'
6" SDR-35 INV IN = 3.80'
(SEE SHEET 14 FOR DETAILS)

50' R/W (VARIABLE WIDTH)

15' M.B.L.

MH-1
RIM ELEV = 12.50'
6" SDR-35 INV OUT = 4.73'

SS-1 57.664LF 6" SDR-35

GRAVITY STUB-OUT FOR FUTURE CONNECTION
SS-3 1.003LF 6" SDR-35

MH-2 [VENT]
RIM ELEV = 11.65'
6" SDR-35 INV IN = 4.36'
6" SDR-35 INV IN = 4.36'
6" SDR-35 INV OUT = 4.33'

4"ø SANITARY SEWER DRAIN [RESTROOM WASTE ONLY] INV. OUT: 6.5'±. (SEE ARCH. PLANS)

4"ø SANITARY SEWER DRAIN [KITCHEN WASTE ONLY] INV. OUT: 8.5'± (SEE ARCH. PLANS)

PROPOSED GREASE INTERCEPTOR 2 TANKS IN SERIES [TRAFFIC RATED] VOLUME: 2,050 GAL (EACH) TANK-1 INV. IN: 8.14'± INV. OUT: 7.97'± TANK-2 INV. IN: 7.87'± INV. OUT: 7.70'± [GARNER MODEL STB-4OE] (OR APPROVED EQUAL) (SEE TYPICAL DETAILS SHEET 16)

PROPOSED 3/4"ø WATER SERVICE LINE TO PUMP STATION [MAY BE TEMPORARY] [INSTALL PER PLUMBING CODE] (36" MIN. COVER)

10'

PROPOSED 2"ø SDR-21 PVC SANITARY FORCE MAIN (TYP.)

DOMESTIC WATER SERVICE (SEE ARCH. PLANS)

PROPOSED DOMESTIC WATER SERVICE LINE [SIZE & INSTALL PER PLUMBING CODE] (36" MIN. COVER)

PROPOSED 3/4"ø WATER SERVICE LINE TO PUMP STATION [INSTALL PER PLUMBING CODE] (36" MIN. COVER)

30' M.B.L.

DIRECTIONAL DRILL LAUNCHING PIT [APPROX., FIELD LOCATE]

PROPOSED BACKFLOW PREVENTER IN HEATED ENCLOSURE [APPROX., FIELD LOCATE] [SIZE & TYPE PER COUNTY AND PLUMBING CODE]

PROPOSED WATER SERVICE METER [APPROX., FIELD LOCATE] [SIZE PER COUNTY AND PLUMBING CODE]

WATER OVER SEWER MIN. 18" SEPARATION

EXISTING CONCRETE SIDEWALK

EXIST. 6" SANITARY FORCE MAIN (APPROX.)

WATER UNDER SEWER MIN. 18" SEPARATION

WATER UNDER STORM MIN. 10" SEPARATION

PROPOSED WET TAP CONNECTION TO EXISTING 6" SANITARY FORCE MAIN 6"X4" TAPPING SLEEVE 4" GATE VALVE 4"X2" REDUCER [APPROX., FIELD LOCATE] (TYP. PER COUNTY SEWER STDS.)

EX. 6" SANITARY FORCE MAIN [APPROX., FIELD LOCATE]

PROPOSED DOMESTIC WATER SERVICE LINE PIPE: 2"ø HDPE LENGTH: 110 LF± INSTALL BY HORIZONTAL DIRECTION DRILL METHOD (TYP. PER NCDOT & COUNTY STDS.)

CARATOKE HWY - NC 168 VARIABLE R/W

PROPOSED DOMESTIC WATER SERVICE TAP [FIELD LOCATE] (TYP. PER COUNTY WATER STDS.) (CONTRACTOR SHALL COORDINATE WITH COUNTY WATER DEPT.)

PROPOSED FIRE HYDRANT 12"X6" TAPPING SLEEVE 6" GATE VALVE 6" HYDRANT ASSEMBLY [APPROX., FIELD LOCATE] (TYP. PER COUNTY WATER STDS.) (CONTRACTOR SHALL COORDINATE WITH COUNTY WATER DEPT.)

DIRECTIONAL DRILL RECEIVING PIT [APPROX., FIELD LOCATE] (MAINTAIN MIN. 5' SEPARATION TO BACK OF CURB)

EXIST. 12" WATER MAIN (APPROX.)

EX. 12" WATER MAIN [APPROX., FIELD LOCATE]

WATER MAIN SPECIFICATIONS AND DETAILS FOR THIS PLAN, INCLUDING ALL MATERIALS AND INSTALLATION METHODS SHALL BE PROVIDED, INSTALLED, TESTED AND ACCEPTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS AND DETAILS FOR THE CURRITUCK COUNTY WATER DEPARTMENT AND THE SOUTHERN OUTER BANKS WATER SYSTEM" AS APPROVED BY NCDEQ-DWR-PWS, SERIAL NUMBER 11-0063O, LATEST REVISION.

A MINIMUM OF 36" OF VERTICAL COVER SHALL BE MAINTAINED OVER THE INSTALLED WATER MAIN.

A MINIMUM OF 18" OF VERTICAL SEPARATION SHALL BE PROVIDED FROM OUTSIDE OF WATER MAIN AND OUTSIDE OF STORM DRAIN.

A MINIMUM OF 18" OF VERTICAL SEPARATION SHALL BE PROVIDED FROM OUTSIDE OF WATER MAIN AND OUTSIDE OF SANITARY SEWER. (SEE 15A NCAC 18C.0906 FOR ADDITIONAL INFORMATION)

15A NCAC 18C .0906 - RELATION OF WATER MAINS TO NON-POTABLE WATER LINES

(a) FOR THE PURPOSES OF THIS RULE, SEWER SHALL MEAN ANY EXISTING OR PROPOSED GRAVITY OR FORCE MAIN USED TO CONVEY SANITARY OR INDUSTRIAL PROCESS WASTE.

(b) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION, IN WHICH CASE:

(1) THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR

(2) THE WATER MAIN SHALL BE LAID IN THE SAME TRENCH AS THE SEWER, WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

(c) CROSSINGS. A WATER MAIN THAT CROSSES A SEWER SHALL BE LAID A MINIMUM VERTICAL DISTANCE OF 18 INCHES FROM THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. EITHER ABOVE OR BELOW THE SEWER, WITH PREFERENCE TO THE WATER MAIN LOCATED ABOVE THE SEWER. ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.

20 0 10 20 40 80

1"=20'

GRAPHIC SCALE

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WATER SERVICE & WASTEWATER COLLECTION SYSTEM PLAN

BAXTER CORNER

MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

COMMERCIAL SITE DEVELOPMENT PLANS

PROJECT:

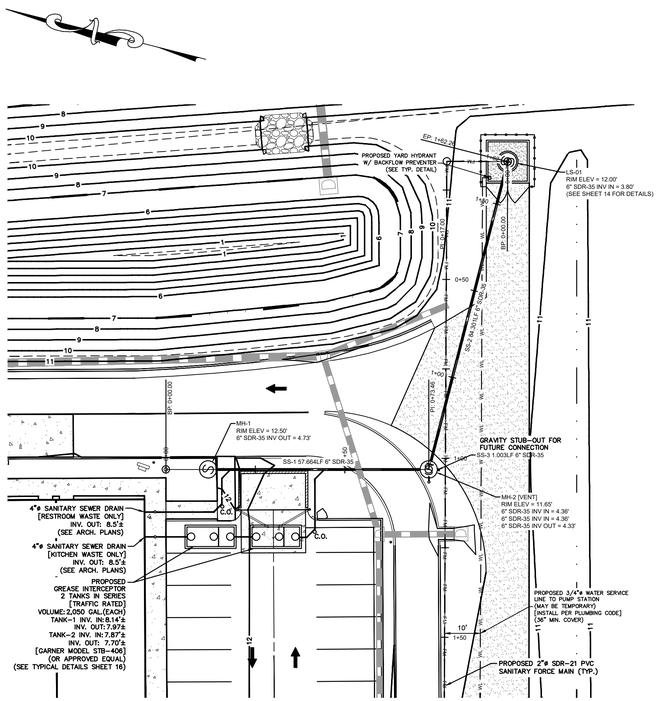
REVISIONS

NO.	DATE	DESCRIPTION	BY
1	10-7-26	ABSS/WATER HWY CROSSING	DMK

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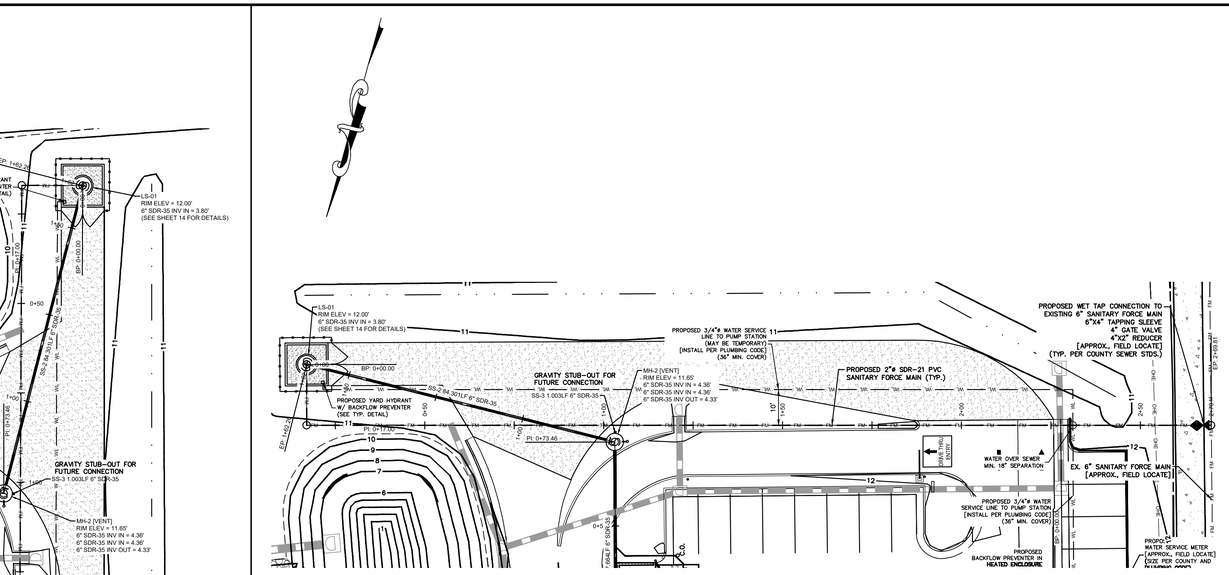
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DATE: 8/21/26	SCALE: 1" = 20'
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DRAWN: DMK	APPROVED: BPG
SHEET: 6 OF 16	
CAD FILE: 474000B7	
PROJECT NO: 4740	



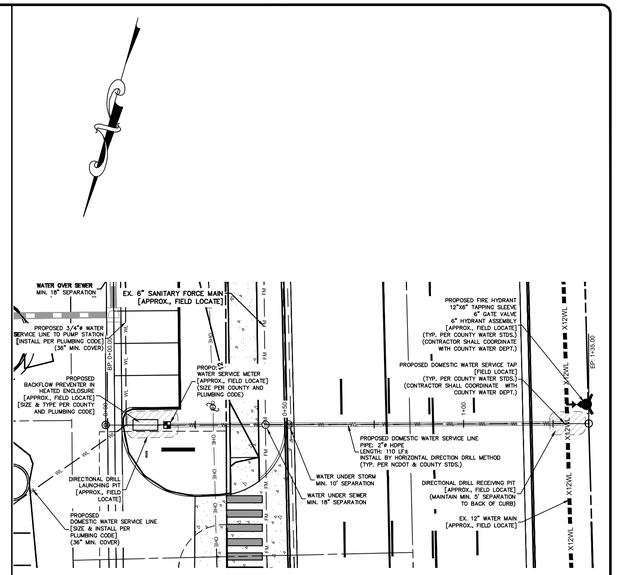
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SCALE: HOR.: 1"=20' (PLAN VIEW)



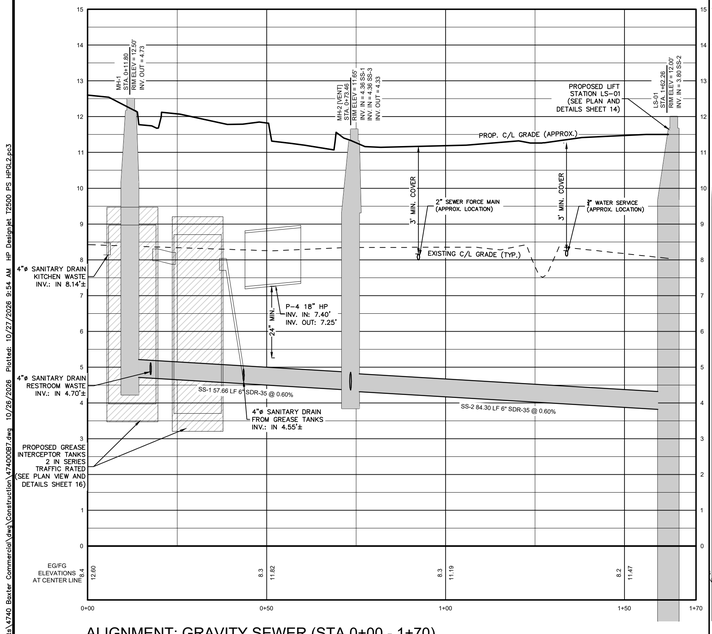
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SCALE: HOR.: 1"=20' (PLAN VIEW)



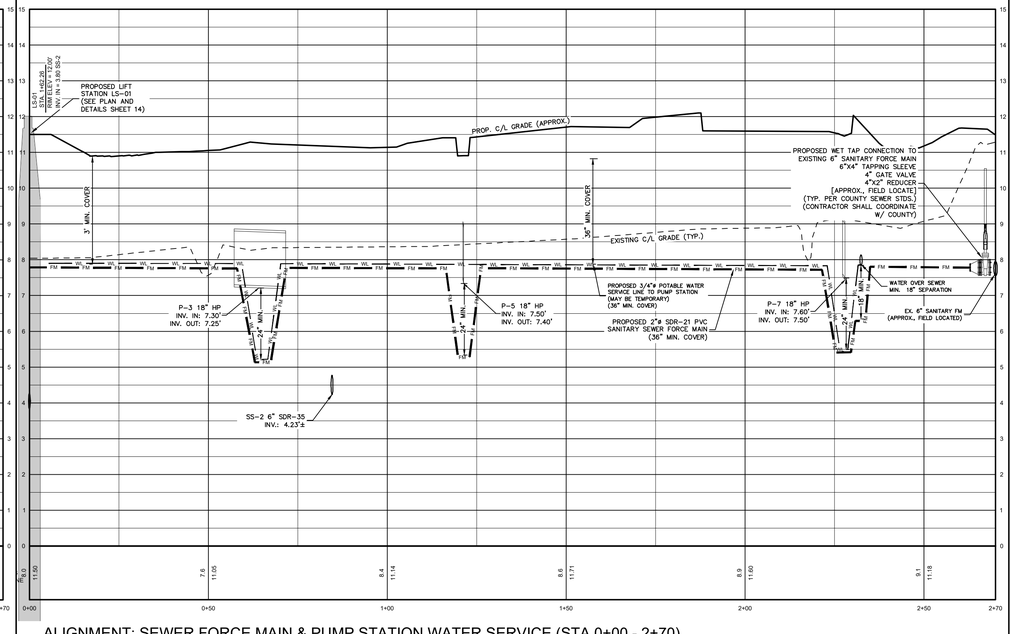
ALIGNMENT: WATER SERVICE HIGHWAY CROSSING (STA 0+00 - 1+35)

SCALE: HOR.: 1"=20' (PLAN VIEW)



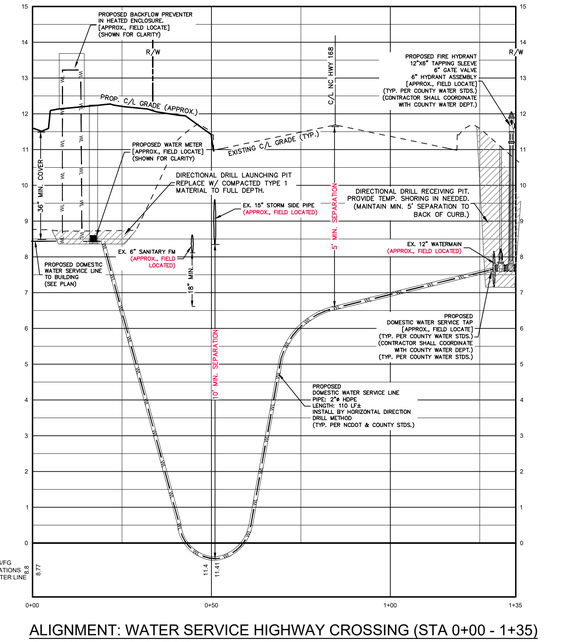
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SCALE: HOR.: 1"=20' VERT.: 1"=2' (PROFILE VIEW)



ALIGNMENT: SEWER FORCE MAIN & PUMP STATION WATER SERVICE (STA 0+00 - 2+70)

SCALE: HOR.: 1"=20' VERT.: 1"=2' (PROFILE VIEW)



ALIGNMENT: WATER SERVICE HIGHWAY CROSSING (STA 0+00 - 1+35)

SCALE: HOR.: 1"=20' VERT.: 1"=2' (PROFILE VIEW)

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WATER AND SEWER SYSTEM
PLAN & PROFILES

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BAXTER CORNER

NORTH CAROLINA

MOYOCK TOWNSHIP CURRITUCK COUNTY

COMMERCIAL SITE DEVELOPMENT PLANS

PROJECT:

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	10-7-26	WATER SERVICE HWY PROFILE	DMK

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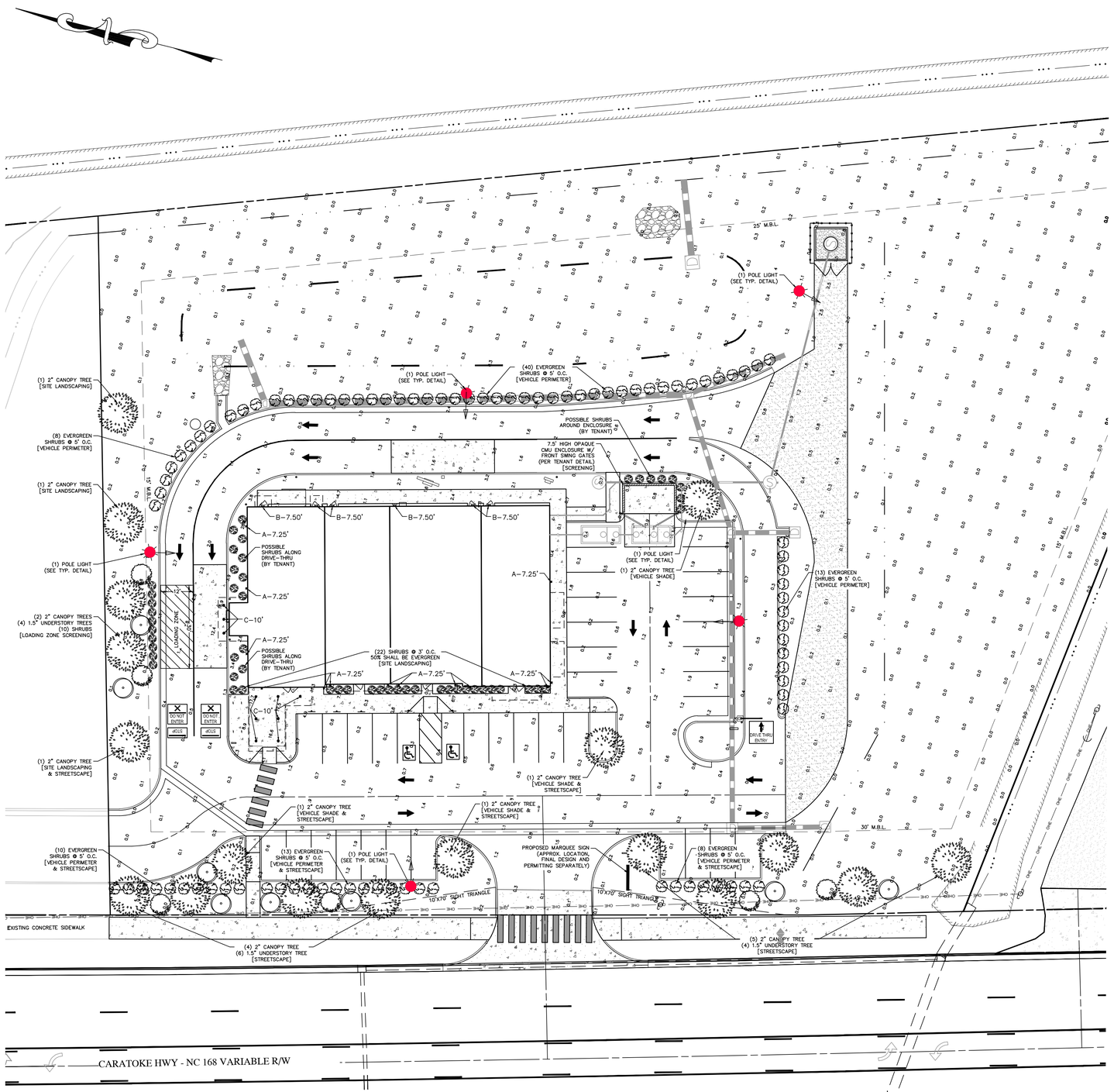
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DRAWN: DMK	APPROVED: BPG

SHEET: 7 OF 16

CAD FILE: 474000B7

PROJECT NO: 4740

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20 0 10 20 40 80

1"=20'

GRAPHIC SCALE

LANDSCAPING NOTES

SITE LANDSCAPING (5.2.4)

- REQUIREMENTS:
  a. (2) CALIPER INCHES OF CANOPY TREES PER ACRE.
  b. (1) SHRUB PER EACH 5 FEET OF BUILDING FACADE FACING A STREET.
  c. AT LEAST ONE-HALF OF SHRUBS SHALL BE EVERGREEN.
- PROVISIONS:
  a. THE AREA OF THIS PROJECT IS APPROX. 2.3 ACRES REQUIRING (4.6) AGGREGATE CALIPER INCHES OF CANOPY TREE. SEE PLAN FOR (3) 2" CANOPY TREES PROPOSED ALONG THE NORTH BOUNDARY OF THE SITE PROVIDING (6) AGGREGATE CALIPER INCHES.
  b. THE PROPOSED BUILDING FACADE FACING CARATOKE HWY IS 109', REQUIRING (22) SHRUBS. SEE PLAN FOR A TOTAL OF (22) SHRUBS PROPOSED ALONG THE FRONT BUILDING FACADE. 50% ARE NOTED AS EVERGREEN.

VEHICULAR USE AREA LANDSCAPING (5.2.5)

- REQUIREMENTS:
  a. SHADING - NO PARKING SPACE TO BE MORE THAN 60' FROM THE TRUNK OF A CANOPY TREE
  b. PERIMETER LANDSCAPING STRIPS COMPOSED OF:
     1. SHRUBS @ 5 FT ON-CENTER ALONG ABUTTING STREET R/W OR OTHER DEVELOPMENT
     2. ALL SHRUBS MUST BE EVERGREEN.
     3. PERIMETER LANDSCAPING STRIPS ARE NOT REQUIRED ALONG THE NORTH AND SOUTHEASTERN SIDES OF THE DRIVE-THRU THAT FACE EXISTING PARKING AREAS ON ADJOINING COMMERCIALLY DEVELOPED PROPERTIES.
- PROVISIONS:
  a. SHADING - SEE PLAN FOR (4) CANOPY TREES PROPOSED THROUGHOUT THE VEHICLE USE AREA AND LOCATED WITHIN 60' OF ALL PARKING SPACES.
  b. PERIMETER LANDSCAPING STRIPS COMPOSED OF:
     1. SEE PLAN FOR EVERGREEN SHRUBS SPACED @ 5' O.C. ALONG ABUTTING R/W AND OTHER DEVELOPMENT.

PERIMETER LANDSCAPE BUFFERS (5.2.6)

- REQUIREMENTS:
  a. PROPERTIES ADJOINING TO THE NORTH AND SOUTH ARE ZONED GB AND DO NOT REQUIRE PERIMETER BUFFERS
  b. PROPERTY TO THE EAST IS ZONED CONDITIONAL MXR AND DOES NOT REQUIRE A PERIMETER BUFFER.

SCREENING (5.2.7)

- REQUIREMENTS:
  a. REFUSE DUMPSTERS SHALL BE SCREENED WITH APPROVED METHODS
  b. LOADING BAYS & DOCKS SHALL BE SCREENED WITH APPROVED METHODS
- PROVISIONS:
  a. SEE PLAN FOR PROPOSED OPAQUE SCREENING ENCLOSURE AROUND DUMPSTER PAD. PER TENANT STANDARDS, THE ENCLOSURE IS CONSTRUCTED OF 7'-6", SOLID CMU BLOCK WALLS ON 3 SIDES AND DOUBLE SWING GATES ON FRONT. SHRUBS ARE ALSO PROPOSED AROUND A PORTION OF THE ENCLOSURE.
  b. SEE PLAN FOR (2) 2" CANOPY TREES + (4) 1.5" UNDERSTORY TREES + (10) SHRUBS PROPOSED ALONG 30' LOADING ZONE.

STREETSCAPE (5.2.8)

- REQUIREMENTS: [PER COMMERCIAL SITES ACCESSED FROM MAJOR ARTERIAL]
  a. (8) AGGREGATE CALIPER INCHES OF CANOPY TREES PER 100 LINEAR FEET.
  b. (4.5) AGGREGATE CALIPER INCHES OF UNDERSTORY TREES PER 100 LINEAR FEET.
  c. (10) SHRUBS PER 100 LINEAR FEET
- PROVISIONS:
  a. PROPERTY FRONTAGE ALONG CARATOKE HWY 168 EXTENDS 308', REQUIRING
     (25) ACI OF CANOPY TREES.
     (14) ACI OF UNDERSTORY TREES
     (31) SHRUBS
  b. SEE PLAN FOR THE FOLLOWING PLANTINGS PROPOSED WITHIN 100' OF THE CARATOKE HWY. R/W
     (13) 2" CANOPY TREES
     (10) 1.5" UNDERSTORY TREES
     (31) SHRUBS

PLANTING AND FENCING GUIDELINES

TREE & SHRUB SPECIES AND PLANTING GUIDELINES:

ALL TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANTING STANDARDS SPECIFIED IN SECTION 3.5 OF THE CURRITUCK COUNTY ADMINISTRATIVE MANUAL AND THIS PLAN.

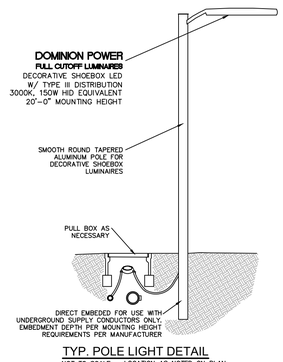
- CANOPY AND UNDERSTORY TREE SPECIES SHALL BE OF THOSE LISTED UNDER "TABLE 3.4.6: RECOMMENDED PLANTINGS" IN THE SAME MANUAL.
- TREE SPECIES SHALL BE DIVERSE. A MINIMUM OF (2) DIFFERENT SPECIES OF CANOPY TREES AND UNDERSTORY TREES SHALL BE INSTALLED IN ROUGHLY EQUAL PROPORTIONS.
- AT INSTALLATION, CANOPY TREES SHALL HAVE A MINIMUM CALIPER OF 2 INCHES MEASURED AT 6 INCHES. ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.
- AT INSTALLATION, UNDERSTORY TREES SHALL HAVE A MINIMUM CALIPER OF 1.5 INCHES MEASURES AT 6 INCHES ABOVE GRADE. EIGHT FOOT HIGH TREES MAY BE PLANTED AS AN ALTERNATIVE.
- SHRUBS SHALL BE PLANTED AT THE SPACING NOTED ON THE PLANS AND FORM A VISUAL SCREEN WITH A MIN. MATURE HEIGHT OF 36". SHRUBS SHALL BE EVERGREEN AS NOTED AND BE A MINIMUM (3) GALLON SIZE AT PLANTING.
- THE USE OF NATIVE, DROUGHT TOLERANT TREES AND SHRUBS IS ENCOURAGED.
- MATERIALS SHALL BE OF HIGH-QUALITY NURSERY GRADE.
- A REPUTABLE LANDSCAPE CONTRACTOR OR SUPPLIER SHALL PREPARE AN ITEMIZED SCHEDULE OF TREES TO BE INSTALLED IN ACCORDANCE WITH THIS LANDSCAPE PLAN. THIS SCHEDULE SHALL BE REVIEWED BY CURRITUCK COUNTY AND THE ENGINEER TO DETERMINE COMPLIANCE BEFORE ORDERING AND INSTALLATION. ALTERNATE TREES AND SPECIFICATIONS MAY BE PRESENTED FOR REVIEW AND APPROVAL.

FENCE AND WALL GUIDELINES:

- ALL FENCES AND WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS SPECIFIED IN SECTIONS 5.2.7.D.(3) & 5.3 OF THE CURRITUCK COUNTY UDO AND THIS PLAN.
- THE FENCE SHALL BE OF SOLID CONSTRUCTION AND NOT EXCEED OR FALL SHORT OF THE HEIGHT PRESCRIBED ON THIS APPROVED PLAN.
- OPAQUE FENCES SHALL BE CONSTRUCTED OF TREATED OR ROT-RESISTANT WOOD, OR A PLASTIC IR VINYL FENCE DESIGNED TO LOOK LIKE AN OPAQUE WOODEN FENCE.
- BARBED WIRE, CONCERTINA WIRE AND ABOVE GROUND ELECTRIFIED FENCES ARE PROHIBITED.
- USE OF CHAN LINK FENCING WITH WOODEN OR PLASTIC SLATS SHALL BE LIMITED TO ACCESS GATES ONLY.
- FENCING ALONG A MAJOR ARTERIAL ROADWAY SHALL BE INSTALLED WITH THE "FINISHED" SIDE FACING THE ROADWAY.
- ALL FENCING OR WALL SEGMENTS LOCATED ALONG A SINGLE LOT SIDE SHALL BE COMPOSED OF A UNIFORM STYLE AND COLORS COMPATIBLE WITH OTHER PARTS OF THE FENCE.
- FENCING SHALL BE DESIGNED AND INSTALLED BY A REPUTABLE FENCE CONTRACTOR.

LANDSCAPING LEGEND

- PROPOSED CANOPY TREE 2.0" CALIPER
- PROPOSED UNDERSTORY TREE 1.5" CALIPER
- PROPOSED SHRUBS SPACING AND EVERGREEN AS NOTED



TYP. POLE LIGHT DETAIL
NOT TO SCALE LOCATION AS NOTED ON PLAN

LIGHTING LEGEND

- A ▪ LED DECORATIVE WALL SCONCE FIXTURE - DOWN LIGHT
  WAC LIGHTING - TUBE
  MODEL: WS-W2605-WT, 5"-1 LIGHT-16 WATT
  OUTPUT: 1,091 LUMENS
  MOUNT HEIGHT: 7'-3" AFF (INSTALL FACING DOWN)
  [13 FIXTURES]
- B ◊ LED WALL PACK FIXTURE - EMERGENCY
  DUALITE - PG SERIES
  MODEL: PGW-1, TIED TO PHOTOCELL
  OUTPUT: 405 LUMENS
  MOUNT HEIGHT: 7'-6" AFF (INSTALL FACING DOWN)
  [6 FIXTURES]
- C ● LED RECESSED DOWNLIGHT FIXTURE - IN CANOPY
  PRESCOLITE - 6" ROUND LITEBOX PRO DOWNLIGHT
  MODEL: LBRP3-M-LSDSLCS9, TRIM:LBRP-6RD-T-D
  OUTPUT: 1,250 LUMENS
  MOUNT HEIGHT: 10'-0" AFF (INSTALL FACING DOWN)
  [10 FIXTURES]
- LED POLE LIGHT FIXTURE - FULL CUTOFF
  DOMINION POWER - DECORATIVE SHOEBOX
  MODEL: 42323703, 150 CHW, 3000K, TYPE III PATTERN
  OUTPUT: 7846 INITIAL LAMP LUMENS
  MOUNT HEIGHT: 20'-0" AFF (INSTALL FACING DOWN)
  [6 FIXTURES]
- FIXTURE DIRECTION
- 3.4 FOOT-CANDLES @ GROUND

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LANDSCAPING, SCREENING, BUFFERING AND LIGHTING PLAN

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PROJECT:
BAXTER CORNER
NORTH CAROLINA
MOYOCK TOWNSHIP CURRITUCK COUNTY
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS			
NO.	DATE	DESCRIPTION	BY

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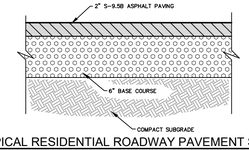
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SHEET: 8 OF 16

CAD FILE: 474000B7

PROJECT NO: 4740

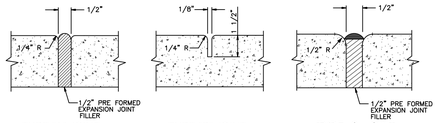
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TYPICAL RESIDENTIAL ROADWAY PAVEMENT SECTION

NOT TO SCALE

NOTE:
PAVING SHALL CONSIST OF FINE GRADING THE SPECIFIED PARKING & DRIVE AREAS AND INSTALLING 2" S-9.5B ASPHALT CONCRETE SURFACE COURSE IN CONJUNCTION WITH A 6" AGGREGATE BASE COURSE. THE SOIL SUBGRADE BENEATH PAVEMENTS SHALL BE COMPACTED TO AT LEAST 95% OF ASTM D 698 PRIOR TO ANY PLACEMENT OF SUBBASE FILL OR STONE BASE COURSE. ALL SITE PREPARATION AND THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS, GROUND SLABS, AND PAVEMENTS SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY A GEOTECHNICAL ENGINEER.

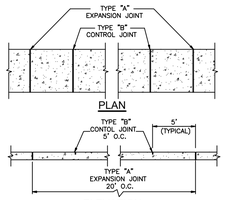


TYPE "A" JOINT TYPE "B" JOINT TYPE "C" JOINT

WHERE SIDEWALK ABUTS DRIVEWAYS AND CONCRETE CURBS, ETC.

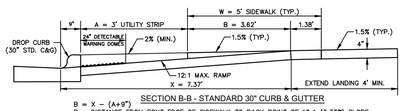
NOTES :
1. SIDEWALKS SHALL HAVE A 4" MINIMUM THICKNESS
2. ALL SIDEWALKS WILL BE CONSTRUCTED A MINIMUM OF 4 FEET WIDE OR AS DIMENSIONED ON THE PLAN.
3. ALL CONCRETE USED FOR SIDEWALKS SHALL BE A MINIMUM OF 3,000 PSI.
5. WHERE SIDEWALKS ARE LESS THAN 5 FEET WIDE, 5'X5' PASSSING ZONES MUST BE PROVIDED EVERY 200'

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	20' CENTER TO CENTER ON SIDEWALKS, P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS, DRIVEWAYS, AND SIMILAR STRUCTURES.
"B"	5' CENTER TO CENTER ON SIDEWALKS.



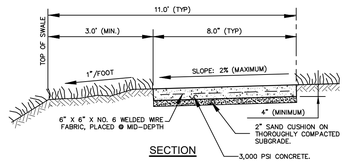
TYPICAL CONCRETE SIDEWALK DETAIL

NOT TO SCALE



SECTION B-B - STANDARD 30" CURB & GUTTER

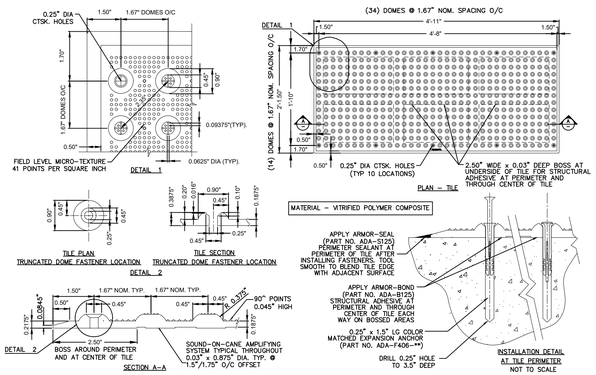
B = X - (A+9")
B = DISTANCE FROM FONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.



SECTION

TYP. CONCRETE MULTI-USE PATH DETAIL

NOT TO SCALE

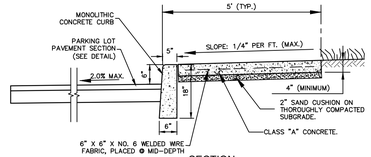


DETECTABLE WARNING SURFACE PANEL DETAIL

COPY RIGHT 2008 ENGINEER PLASTICS WWW.ARMOR-TILE.COM NOT TO SCALE

DETECTABLE WARNING GENERAL NOTES

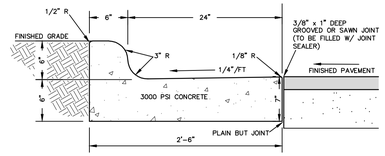
1. DETECTABLE WARNING SURFACES SHALL BE "ARMOR-TILE SURFACE APPLIED TACTILE WARNING SURFACE" AS MANUFACTURED BY "SURE WERX USA", OR APPROVED EQUAL, AS LISTED ON NCDOT'S APPROVED PRODUCTS LIST.
2. PANELS SHALL START AT BACK OF CURB, BE 24 INCHES IN DEPTH AND COVER THE FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON RAMP DETAILS, 60 INCHES WIDTH TYPICAL.
3. PANELS SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL AND DIRECTED TOWARD THE RAMP ON THE OPPOSITE SIDE OF STREET.
4. PANELS SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP. SAFETY YELLOW IS A DEFAULT COLOR.
5. PANELS SHALL BE SURFACE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. CONCRETE SHALL BE POURED AND FINISHED, TRUE AND SMOOTH (NON-GROOVED) TO THE REQUIRED DIMENSIONS AND SLOPE PRIOR TO PLACEMENT OF PANELS.



SECTION

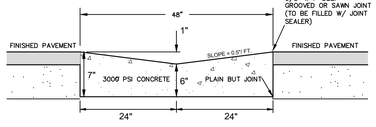
PARKING LOT & SIDEWALK DETAIL

NOT TO SCALE



CURB & GUTTER COLLECTION SECTION

NOT TO SCALE NCDOT STD 846.01

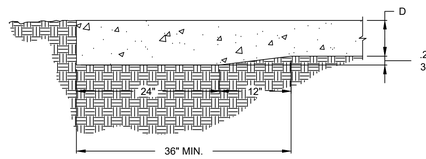


VALLEY GUTTER SECTION

NOT TO SCALE

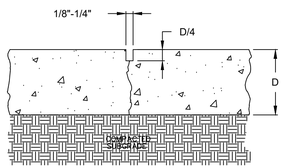
GENERAL CURB & GUTTER NOTES:

1. PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
2. JOINT SPACING MAY BE ALTERED IF REQUIRED BY ENGINEER.
3. CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1-1/2" DEEP.
4. FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"X6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
5. SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



CONVENTIONAL CONCRETE THICKENED EDGE DETAIL

NOT TO SCALE SECTION VIEW



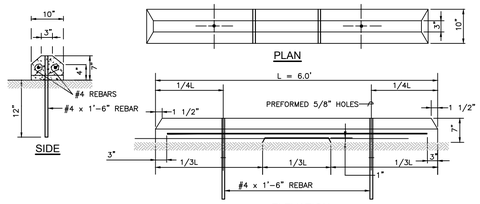
CONVENTIONAL CONCRETE CONTROL JOINT DETAIL

NOT TO SCALE SECTION VIEW

NOTES:
MINIMUM PAVEMENT THICKNESS (D) = 6" W/6x6-W2.9 x W2.9 WWF REINFORCEMENT, PLACE 2" BELOW TOP OF SLAB
UNDOWELED TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT, SAWED OR PRE-MOLDED. DO NOT DOWEL PAVEMENTS LESS THAN 7" THICK.

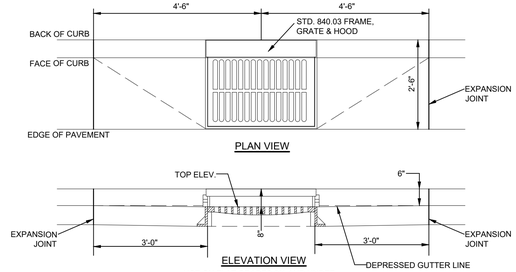
CONVENTIONAL CONCRETE SPECIFICATIONS:

1. USE ACI CERTIFIED FLATWORK FINISHER
2. USE ACI 330R-01 GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS
3. USE ACI 330.1-94 STANDARD SPECIFICATION FOR PLAIN CONCRETE PARKING LOTS
4. ALL CONCRETE USED IN PARKING LOT, UNLESS OTHERWISE INDICATED, SHALL HAVE A COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS.
5. IF SUBGRADE SOILS ARE FOUND BY THE CONTRACTOR TO BE UNSUITABLE, TESTING AND PREPARATION RECOMMENDATIONS BY A GEOTECHNICAL ENGINEER MUST BE PROVIDED PRIOR TO CONCRETE PLACEMENT.
6. IMPORTED SOIL USE FOR BACK FILL SHOULD BE FREE OF HEAVY CLAY, SILTS, STONES, PLANT
   ROOT OR OTHER FOREIGN MATERIAL GREATER THAN 1½" IN DIAMETER IN ORDER TO ACHIEVE
   ADEQUATE COMPACTION AROUND ANY FIXED OBJECT IN GROUND. ALTERNATE WILL BE TO USE FLOWABLE FILL.
7. KEEP ALL JOINTS CONTINUOUS WITH A MAXIMUM JOINT SPACING OF 10 FT.
8. CONTROL JOINTS SHALL BE FORMED OR SAWED WITHIN 12 HOURS FROM TIME OF PLACEMENT;
   A. SIDEWALK-SPACING SHALL BE SAME AS WIDTH OF PAVEMENT AND LESS THAN 5 FEET IN LENGTH
   B. PAVEMENT-MAXIMUM SPACING SHALL BE 2.5 TIMES THICKNESS IN UNIT OF FEET AND LESS THAN 15 FEET IN LENGTH (E.G. T=4 INCH SPACING AT 10'x10')
9. CURE CONCRETE IMMEDIATELY AFTER FINISHING OPERATION IS COMPLETED BY USING ONE OF THE FOLLOWING METHODS: WATER, PIGMENTED WATER-BASED CURING COMPOUND OR VISQUEEN AND BURLAP



PRE-CAST CONCRETE PARKING BLOCK

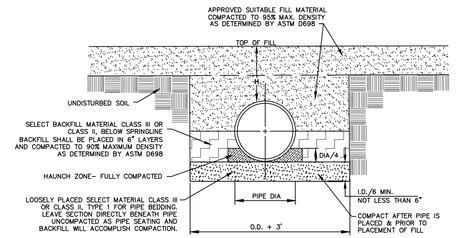
NOT TO SCALE



USE ON FLAT GRADES 2% AND UNDER

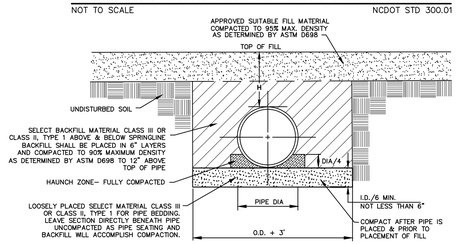
CURB & GUTTER INSTALLATION AT CATCH BASIN

NOT TO SCALE NCDOT STD. 840.02



STANDARD RIGID PIPE INSTALLATION DETAIL

NOT TO SCALE NCDOT STD 300.01



STANDARD FLEXIBLE PIPE INSTALLATION DETAIL

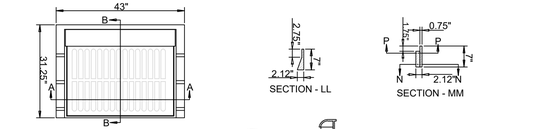
NOT TO SCALE

CALL PROPOSED H.D.P.E. PIPING SHALL BE DOUBLE WALL, ADS N-12 TYPE DR APPROVED EQUAL)

NCDOT STD 300.01

GENERAL PIPE INSTALLATION NOTES:

1. ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", CHAPTER XVII OF TITLE 29, CFR, PART. 1926. THE CONTRACTOR SHALL HAVE A COMPETENT PERSON ON THE JOB AT ALL TIMES AND SHALL EMPLOY A PROFESSIONAL ENGINEER TO ACT UPON ALL PERTINENT MATTERS OF THE WORK.
2. DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
3. THE STANDARD DETAILS ABOVE ILLUSTRATE TYPICAL TRENCH INSTALLATIONS IN "NORMAL EARTH FOUNDATION" CONDITIONS. FOR ABOVE GROUND INSTALLATIONS AND ALTERNATE FOUNDATION CONDITIONS, SUCH AS ROCK AND UNSUITABLE MATERIAL, REFERENCE NCDOT'S TYPICAL STANDARD DETAIL 300.01.
   I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
   O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
   H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT OR THE BOTTOM OF THE PAVEMENT STRUCTURE AT THAT POINT.
   REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE FOR MAXIMUM AND MINIMUM ALLOWABLE FILL HEIGHTS (H) BY PIPE AND INSTALLATION TYPE.

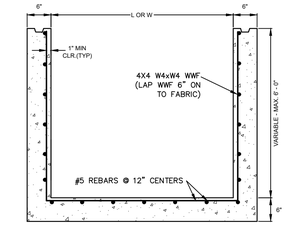


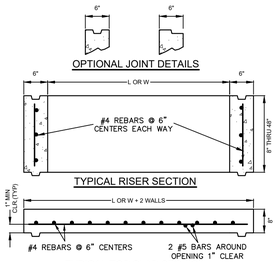
NOTE: USE TYPE "E","F",& "G" GRATE UNLESS OTHERWISE INDICATED

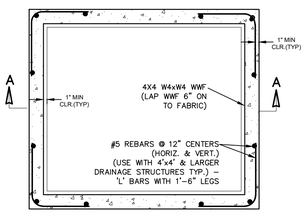
REFERENCE TO NCDOT DETAIL NO. 840.03.

CATCH BASIN FRAME,GRATE & HOOD DETAIL

NOT TO SCALE NCDOT STD 840.03







IN ACCORDANCE WITH NCDOT'S CONCRETE CATCH BASIN STANDARD DETAIL 840.02,
1. ALL PIPE CONNECTIONS SHALL BE MADE FLUSH WITH THE VERTICAL INSIDE WALL OF THE STRUCTURE.
2. ALL STRUCTURE INVERTS SHALL BE MADE FLUSH WITH THE INVERT OF THE LOWEST CONNECTED PIPE. SUMPS SHALL BE FILLED WITH CONCRETE AS NECESSARY TO ACHIEVE THIS REQUIREMENT.

STANDARD TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE

NOT TO SCALE NCDOT STD 840.46

PRECAST DRAINAGE STRUCTURE GENERAL NOTES

1. DESIGN SHALL CONFORM TO LATEST NCDOT 840.46 SPECIFICATIONS FOR "TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE".
2. CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 4,000PSI.
3. USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A1064 WELDED WIRE FABRIC (WWF).
4. LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB TO 15' - 0"
5. PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
6. ORIENT STRUCTURES SO THAT CORNERS WILL NOT BE CUT OR MODIFIED UNLESS ALLOWED BY DETAIL
7. PRECAST ALL ELEMENTS TO MEET ASTM C913
8. FRAME AND GRADE HEIGHT MAY BE ADJUSTED IN ACCORDANCE WITH STANDARD 840.25
9. PROVIDE PRECAST STRUCTURES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS PER STANDARD 840.66
10. WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR IF THE SAME MIN. AREA OF STEEL IS PROVIDED.
11. SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATIONS SS-S-21A, AASHTO M-198, TYPE-B BUTYL RUBBER.
12. LIMIT MAXIMUM STRUCTURE SIZES INSIDE CLEAR DIMENSIONS TO 6'-0" X 6'-0"
13. THE OUTSIDE PIPE DIAMETER PLUS 2" IS MINIMUM STRUCTURE SIZE, OR THE OPENING REQUIRED FOR FRAME AND GRATE, WHICHEVER IS GREATER.
14. ANY DEVIATIONS FROM THE APPROVED PLAN & SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

BISSELL
PROFESSIONAL GROUP
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Engineers, Planners, Surveyors and Environmental Specialists

ROADWAY, SIDEWALK & DRAINAGE
TYPICAL CONSTRUCTION DETAILS

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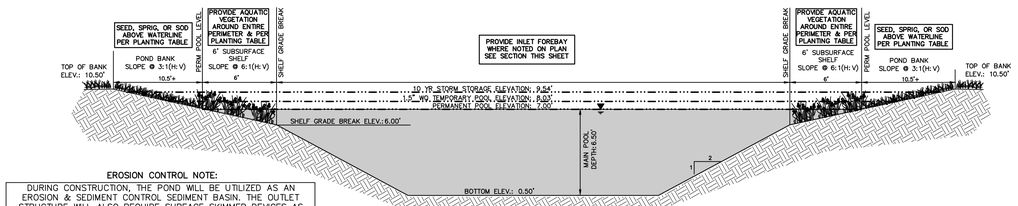
PROJECT:
BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS		
NO.	DATE	DESCRIPTION	BY

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

DATE: 8/21/26	SCALE: AS NOTED
DESIGNED: BPG	CHECKED: MSB
DRAWN: DMK	APPROVED: BPG
SHEET: 9 OF 16	
CAD FILE: 474000B7	
PROJECT NO: 4740	

S:\projects\4740 Baxter Commercial\dwg\Construction\474000B7.dwg 10/28/2026 Plotted: 10/27/2026 9:55 AM HP Designjet T2500 PS HPGL2.pc3



EROSION CONTROL NOTE:

DURING CONSTRUCTION, THE POND WILL BE UTILIZED AS AN EROSION & SEDIMENT CONTROL SEDIMENT BASIN. THE OUTLET STRUCTURE WILL ALSO REQUIRE SURFACE SKIMMER DEVICES AS DETAILED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS PROPERLY STABILIZED THE PONDS SHALL BE CLEANED AND RESTORED TO ITS DESIGN SPECIFICATIONS AND THE BANKS PERMANENTLY STABILIZED **WITHIN 7 DAYS.**

STORMWATER MANAGEMENT WET-DETENTION BASIN
TYPICAL CROSS SECTION

NOT TO SCALE (LOCATIONS AS DENOTED ON PLAN)

BMP CONSTRUCTION SEQUENCE NOTES:

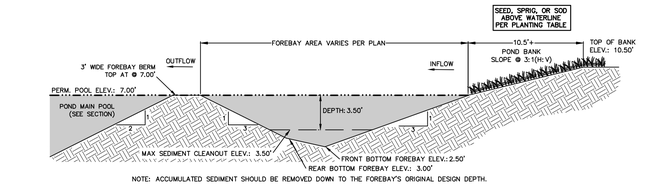
THE FOLLOWING SEQUENCE IS IN ADDITION TO THE **"CONSTRUCTION SEQUENCE SCHEDULE"** PROVIDED UNDER THE EROSION AND SEDIMENT CONTROL SPECIFICATIONS.

1. THE POND SHALL BE CONSTRUCTED AS DIRECTED ON THE PLAN AND DETAILS. PERIMETER SLOPE IMPROVEMENTS SHALL BE STABILIZED WITH TEMPORARY VEGETATION WITHIN 7 DAYS OF CONSTRUCTION. THIS WILL CREATE A TEMPORARY SEDIMENT BARRIER DURING PROJECT CONSTRUCTION. A GOOD TEMPORARY MEANS OF STABILIZATION IS A WET HYDROSEED MIX.
2. THE POND MAY BE OVER EXCAVATED TO OBTAIN SUITABLE MATERIALS FOR CONSTRUCTION OF THE PROJECT. UNSUITABLE OVERBURDEN MATERIALS MAY BE PLACED BACK INTO THE POND, HOWEVER, THE FINAL BOTTOM SHALL NOT EXCEED THE ELEVATION NOTED ON THE PLAN AND DETAILS.
3. DURING CONSTRUCTION, THE POND WILL BE UTILIZED AS AN EROSION & SEDIMENT CONTROL SEDIMENT BASIN. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS PROPERLY STABILIZED THE POND SHALL BE CLEANED AND RESTORED TO ITS DESIGN SPECIFICATIONS AND THE BANKS PERMANENTLY STABILIZED **WITHIN 7 DAYS.**
4. FINAL PERMANENT WETLAND VEGETATION SHALL BE INSTALLED AND STABILIZED WITHIN 14 DAYS OF FINAL BMP GRADING. PLANTINGS SHALL BE IN ACCORDANCE WITH THE PLANTING SPECIFICATIONS PROVIDED AND ANY AMENDMENTS DETERMINED IN THE ABOVE SEQUENCE.

PLANTING TABLE

SHELF ZONE	PLANT SPECIES	MAX. PLANT SPACING	CONTAINER CLASS
BELOW PERM. POOL MINIMUM OF 3 SPECIES, PLANTED IN A DIVERSE DISTRIBUTED PATTERN (SEE PLAN FOR LOCATIONS)	CHELON GLABRA – WHITE TURTLEHEAD EUPATORIADEPHUS FISTULOSUS – JOE PYE WEED HIBISCUS LAEVIS – HALBERDLEAF ROSEMALLOW LOBELIA CARDINALIS – CARDINAL FLOWER RHYNCHOSPORA COLORATA – STARRUSH WHITETOP SACCHARUM BALDWINII – NARROW PLUMEGRASS (OR APPROVED EQUAL) **(WETLAND SEED MIXES SHALL NOT BE USED)**	50 PLANTS PER 200 S.F. 2' ON-CENTER	MINIMUM 4 CUBIC INCH PREFERED 6.5 CUBIC INCH+
POND BANK AROUND PERIMETER OF BMP ABOVE PERMANENT POOL	TIFWAY 419 – HYBRID BERMUDA GRASS EREMOCHLOA OPHIUROIDES – CENTIPEDEGRASS (OR APPROVED EQUAL) **(TREES, WOODY SHRUBS AND CLUMPING GRASSES SHALL NOT BE USED)**	AS REQUIRED PER SUPPLIER SPECIFICATIONS	N/A

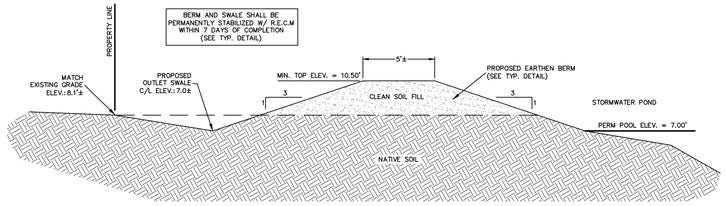
NOTE: WETLAND PLANTS INC. (ALSO COASTAL PLAIN CONSERVATION NURSERY) IS A RECOMMENDED SOURCE FOR WETLAND PLANTS ON THIS PROJECT. THE NURSERY IS LOCATED AT 812 DRUMMONDS POINT RD, EDENTON, NC PHONE NUMBER: (252) 482-5707. THE PLANTINGS LISTED IN THE TABLE ABOVE ARE RECOMMENDATIONS SPECIFIC TO THIS PROJECT. ALTERNATE SPECIES MAY BE UTILIZED AFTER PROPER REVIEW AND APPROVAL BY ENGINEER.



NOTE: ACCUMULATED SEDIMENT SHOULD BE REMOVED DOWN TO THE FOREBAY'S ORIGINAL DESIGN DEPTH.

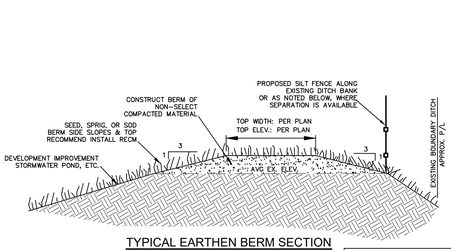
SEDIMENT FOREBAY CROSS SECTION

(LOCATIONS AS DENOTED ON PLAN)



TYPICAL SECTION - A

SCALE: 1"=5'



TYPICAL EARTHEN BERM SECTION

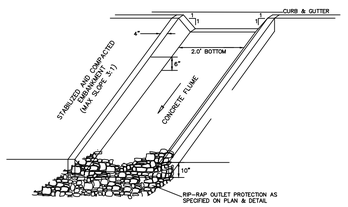
NOT TO SCALE LOCATION PER PLAN

EROSION CONTROL NOTE:

PERMANENTLY STABILIZED WITHIN 7 DAYS OF COMPLETION.

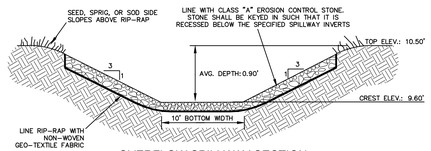
SEPARATION NOTE:

AT LOCATIONS WHERE SEPARATION IS AVAILABLE BETWEEN THE BERM AND DITCH, THE SILT FENCE SHALL BE INSTALLED ALONG THE TOE OF BERM TO ALLOW SPACE FOR MAINTENANCE.



TYP. CONCRETE FLUME DETAIL

NOT TO SCALE

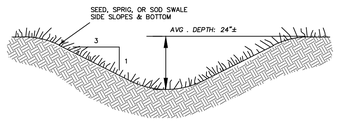


OVERFLOW SPILLWAY SECTION

NOT TO SCALE

EROSION CONTROL NOTE:

PERMANENTLY STABILIZED WITHIN 7 DAYS OF COMPLETION.

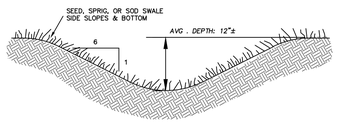


TYPICAL OUTLET SWALE SECTION

NOT TO SCALE CRITICAL AREA SECTION VIEW

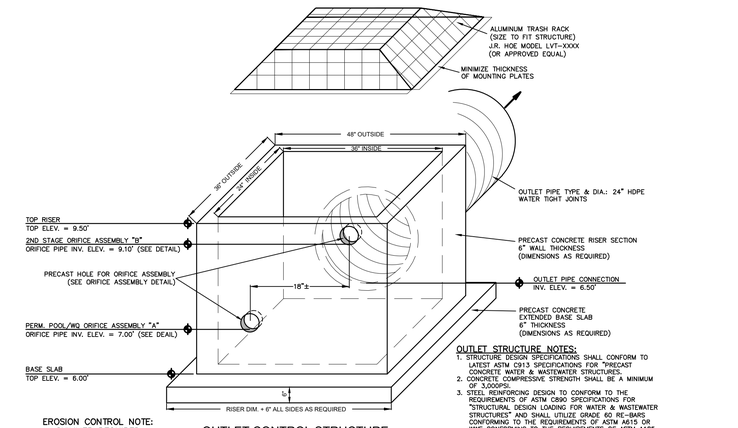
EROSION CONTROL NOTE:

IMPROVEMENT SHALL BE STABILIZED WITHIN 7 DAYS OF COMPLETION.



TYPICAL TEMPORARY SWALE SECTION

NOT TO SCALE SECTION VIEW



EROSION CONTROL NOTE:
SKIMMER REQUIRED

DURING CONSTRUCTION, AND UNTIL THE SITE IS STABILIZED, THE WEIRS ON THE DRAWDOWN STRUCTURE SHALL BE TEMPORARILY SEALED AND FITTED WITH AN ADAPTER TO ATTACH A TEMPORARY SURFACE SKIMMER DEVICE. (SEE SKIMMER DETAIL ON SHEET 10)

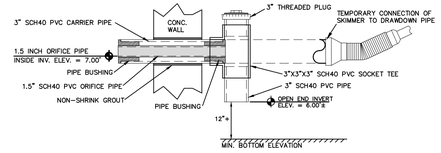
OUTLET CONTROL STRUCTURE

NO SCALE LOCATION AS NOTED ON PLAN

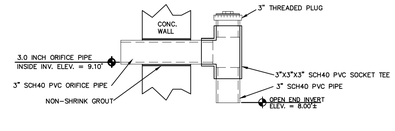
THE CONTRACTOR SHALL CONFIRM ALL STRUCTURE DIMENSIONS AND COORDINATE WITH MANUFACTURER BEFORE FABRICATION

OUTLET STRUCTURE NOTES:

1. STRUCTURE DESIGN SPECIFICATIONS SHALL CONFORM TO LATEST ASTM C913 SPECIFICATIONS FOR "PRECAST CONCRETE WATER & WASTEWATER STRUCTURES."
2. CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 3,000PSI.
3. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C890 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER & WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
4. PIPE PENETRATION TO BE AS SPECIFIED. PIPE TO BE INSTALLED AS PER NCDOT STANDARDS FOR MORTAR JOINT CONNECTIONS.
5. JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS OR BOTH.
6. ANY DEVIATIONS FROM THE APPROVED PLAN & SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



PVC ORIFICE ASSEMBLY "A"



PVC ORIFICE ASSEMBLY "B"

BISSELL PROFESSIONAL GROUP
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Engineers, Planners, Surveyors and Environmental Specialists

STORMWATER MANAGEMENT
TYPICAL CONSTRUCTION DETAILS

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PROJECT:

BAXTER CORNER

MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA

COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE:	DESCRIPTION	BY

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

DATE: 8/21/26	SCALE: AS NOTED
DESIGNED: BPG	CHECKED: MSB
DRAWN: DMK	APPROVED: BPG

SHEET: 10 OF 16

CAD FILE: 474000B7

PROJECT NO: 4740

S:\projects\4740 Baxter Commercial\dwg\Construction\474000B7.dwg 10/28/2026 Plotted: 10/27/2026 9:55 AM HP DesignJet T2300 PS HPGL2.pc3

GENERAL PROJECT NOTES:

1. PROJECT NAME: BAXTER CORNER
   MOYOCK TOWNSHIP, CURRITUCK COUNTY, NORTH CAROLINA
2. DEVELOPER: BENNA VICTOR HOLDINGS, LLC
   d.b.a. ARSENAL ACQUISITION, SERIES 11
   4445 CORPORATION LN, SUITE 151
   VIRGINIA BEACH, VA 23462
3. PROJECT DESCRIPTION: MIXED USE COMMERCIAL DEVELOPMENT
4. NEAREST RECEIVING STREAM: MOYOCK RUN - INDEX NUMBER: 30-1-2-2-1
5. STREAM CLASSIFICATION: C;Sw; RIVER BASIN: PASQUOTANK
6. PROJECT AREA TABULATION:

TOTAL PROPERTY AREA :	2.28 AC.
TOTAL PROPOSED DISTURBED AREA :	2.37 AC.

AREA CALCULATION NOTE:
All areas have been calculated utilizing properties within the Autocad software.

MATERIAL BALANCE NOTE:
All excavated material occurring during the course of construction shall remain on-site for parking and building construction. See SCHEDULE OF LAND DISTURBING ACTIVITIES provided on Sheet 5 of this set for an estimated cut fill material balance for the project.

WETLAND NOTE:
The property contains no known 404 jurisdictional wetlands.

STABILIZATION NOTE:
The angle of 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, all disturbed areas left exposed will, WITHIN 14 CALENDAR DAYS OF COMPLETION of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion.
Additionally, certain critical areas as identified on the plan, such as, but not limited to, perimeter dikes, swales, slopes steeper than 3:1, and areas located within High Quailty Water Zones, must be temporarily or permanetly stabilzed WITHIN 7 CALENDAR DAYS OF COMPLETION of any phase of grading in these areas.
A permanent ground cover for all disturbed areas must be provided WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (whichever is shorter) following completion of construction or development.

CONSTRUCTION SEQUENCE SCHEDULE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
Construction Access— Construction entrance, construction routes, equipment parking areas	First land—disturbing activity—Stabilize bare areas immediately with gravel & temporary vegetation as construction takes place.
Sediment Traps & Barriers Basin traps, sediment fences, & outlet protection	Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.
Runoff Control— Diversions, perimeter dikes, water bars, and outlet protection	Install key practices after principal sediments traps and before land grading. Install additional runoff—control conveyance measures during grading.
Runoff Conveyance System— Stabiles stream banks, storm drains, channels, Inlet & outlet protection, slope drains	Where necessary, stabilize stream banks as early as possible. Install principal runoff conveyance system with runoff—control measures. Install remainder of system after grading.
Land Clearing & Grading— Site preparation— cutting, filling & grading, sediment traps, barriers, diversions, drains, surface roughening	Begin major clearing and grading after principal & key runoff—control measures area installed. Clear borrow & disposal areas as needed. Install additional control measures as grading progresses. Mark trees & buffer areas for preservation.
Surface Stabilization— Temporary & permanent seeding, mulching, sodding, rip rap.	Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.
Building Construction— Buildings, utilities, paving.	Install necessary erosion & sedimentation control practices as work takes place.
Landscaping & Final Stabilization— Topsoiling, trees & shrubs, permanent seeding, mulching, sodding, rip rap	Stabilize all open areas, including borrow & spoil areas. Remove & stabilize all temporary control measures.

LAND GRADING CONSTRUCTION SPECIFICATIONS

1. Construct & maintain all erosion & sedimentation control practices & measures in accordance with the approved sedimentation control plan and construction schedule.
2. Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas.
3. Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.
4. Clear & grub areas to be filled to remove trees, vegetation, roots, or other objectionable material that would affect the planned stability of fill.
5. Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.
6. Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems.
7. Do not incorporate frozen material or soft, mucky, or highly compressible materials into fill slopes.
8. Do not place fill on a frozen foundation, due to possible subsidence and slippage.
9. Keep diversions and other water conveyance measures free of sediment during all phases of development.
10. Handle seeps or springs encountered during construction in accordance with approved methods.
11. Following completion of any phase of grading, provide a groundcover (temporary or permanent) on all exposed slopes within 14 calendar days, or 7 calendar days in critical areas identified on the plan; 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.
12. Provide adequate protection from erosion for all topsoil stockpiles, borrow areas, and spoil areas.

MAINTENANCE
Periodically check all graded areas & the supporting erosion & sedimentation control practices, especially after heavy rainfalls. Promptly remove all sediment from diversions and other water—disposal practices. If washouts or breaks occur, repair them immediately. Prompt maintenance of small—eroded areas before they become significant gullies is an essential part of an effective erosion & sedimentation control plan.

PERMANENT SEEDING

The purpose of permanent seeding is to reduce erosion and decrease sediment yield from disturbed areas, and to permanently stabilize such areas in a manner that is economical, adapts to site conditions, and allows selection of the most appropriate plant materials. These areas must be seeded or planted within 15 working days or 90 calendar days after final grade is reached, unless temporary stabilization is applied.

PERMANENT SEEDING SPECIFICATIONS
Seeding Recommendations for Summer
SEEDING DATES — April to July
SEEDING MIXTURE

Species	Rate
Common bermudagrass	10/1,000 sf (sprigs)
	1—2 lb/1,000 sf (seed)
	SOD (See Sodding Notes)

Seeding Recommendations for Early Fall through Early Spring
SEEDING DATES — August to March (early fall and spring recommended)

Species	Rate
Kentucky 31 Tall Fescue	6 lb/1,000 sf (broadcast seed)

SEEDING NOTES—
1. Sprig or sod. Moisture is essential during initial establishment. Sod must be kept watered for 2—3weeks, but can be planted earlier or later than sprigs.

Soil Amendments—
It is highly recommended that soils be tested and amended as found necessary. If a sois are not tested follow these recommendations:
Apply 3,000 lb/acre of ground agricultural limestone and 500 lb/acre of 10—10—10 starter fertilizer, or 50 lb/acre nitrogen from turf—type slow—release fertilizer. Add 25—50 lb/acre nitrogen at 2—3 week intervals through midsummer.

Sprigging—
Plant sprigs in furrows with a tractor—drawn transplanter, or broadcast by hand. (Not recommended for Tall Fescue)

Furrows should be 4—6 inches deep and 2 feet apart. Place sprigs about 2 ft. apart in a row with one end at or above ground level.

Broadcast at rates shown above, and press sprigs into the top 1/2—2 inches of soil with a disk set straight so that sprigs are not brought back toward the surface.

Mulch—
Do not mulch Bermuda Grass. For Tall Fesuce seed, apply 4,000—lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch—anchoring tool. A disk with blades set nearly straight can be used as a mulch—anchoring tool.

Maintenance—
Water as needed. Mow bermuda to 3/4 to 1—inch height and tall fescue to 2.5 — 3.5 inch height. Topdress bermuda with 40 lb/acre nitrogen in April, 50 lb in May, 50 lb in June, 50 lb in July, and 25 lb in August. Top dress tall fescue in mid September,again in November and February with turf—grade 3—1—2 or 4—1—2 ratio turf—grade fertilizer. Fertilize with 1 lb of actual nitrogen per 1,000 sf. Do not fertilze tall fescue between Mid March and Early September.

TEMPORARY SEEDING

The purpose of temporary seeding is to temporarily stabilize denuded areas that will not be brought to final grade or permanently seeded for a period of more than 14 calendar days, **or 7 days in critical areas indentified on the plan.**

TEMPORARY SEEDING SPECIFICATIONS
Seeding Recommendations for Late Winter & Early Spring
SEEDING DATES— December 1 to April 15
SEEDING MIXTURE

Species	Rate (lb/acre)
Winter Rye (grain)	120 (Annual Ryegrass shall not be used)
Annual Lespedeza (Kobe)	50

*Omit Annual Lespedeza when duration of temporary cover is not to extend beyond June

Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10—10—10 fertilizer.

Mulch—
Apply 4,000—lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch—anchoring tool. A disk with blades set nearly straight can be used as a mulch—anchoring tool.

Maintenance—
Refertilize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Summer
SEEDING DATES— April 15 to August 15
SEEDING MIXTURE

Species	Rate (lb/acre)
German Millet	40

Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10—10—10 fertilizer.

Mulch—
Apply 4,000—lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch—anchoring tool. A disk with blades set nearly straight can be used as a mulch—anchoring tool.

Maintenance—
Refertilize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

Seeding Recommendations for Fall
SEEDING DATES— August 15 to December 30
SEEDING MIXTURE

Species	Rate (lb/acre)
Winter Rye (grain)	120

Soil Amendments—
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10—10—10 fertilizer.

Mulch—
Apply 4,000—lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch—anchoring tool. A disk with blades set nearly straight can be used as a mulch—anchoring tool.

Maintenance—
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 ld/acre Kobe Lespedeza in late February or Early March.

SODDING

The purpose of permanent seeding is to prevent erosion and damage from sediment and runoff by stabilizing the soil surface with permanent vegetation for the purpose of:
—the provision of immediate vegetative cover in critical areas
—to stabilize disturbed areas with a suitable plant material that cannot be established by seed.
—to stabilize drainage ways & channels and other areas of concentrated flow where flow velocities will not exceed that specified grass lining.

SODDING SPECIFICATIONS
Sod Quality
—Sod should be machine cut at a uniform depth of 1/2—2 inches
—Sod should not have been cut in excessively wet or dry weather.
—Sections of sod should be standard size as determined by the supplier, uniform, and untorn.
—Sections of sod should be strong enough to support their own weight and retain their size and shape when lifted by one end.
—Harvest, delivery, and installation of sod should take place within a period of 36 hours.

Soil Amendments—
Apply lime and fertilizer according to soil tests or apply 2 tons/acre of pulverized agricultural limestone and 1,000 lb/acre 10—10—10 fertilizer in the fall, or 5—10—10 in spring.

Prior to laying sod, clear the soil surface of trash, debris, roots, branches, stones, and clods larger than 2 inches in diameter. Fill or level low spots in order to avoid standing water. Rake or harrow the site to achieve a smooth and level final grade. Complete soil preparation by rolling or cultipacking to firm soil.

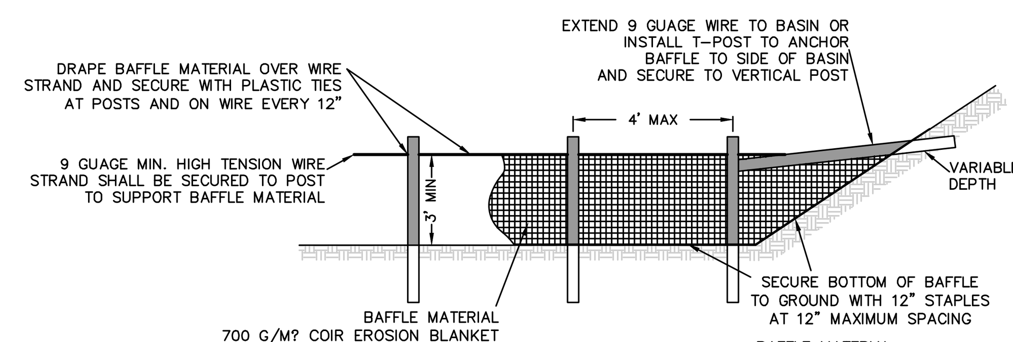
Sod Installation—
1. Moistening the sod after it is unrolled helps maintain viability. Store in shade during installation.
2. Rake the soil surface to break the crust just before laying sod. During the summer, lightly irrigate the soil, immediately before laying sod to cool the soil and reduce root burning & dieback.
3. Do not sod on grave, frozen soils, or soils that have been treated recently with sterilants or herbicides.
4. Lay the first row of sod in a straight line with subsequent rows placed parallel to and butting tightly against each other. Stagger strips in a brick—like pattern. Be sure that the sod is not stretched or overlapped and that all joints are butted tightly to prevent voids. Use a knife or sharp spade to trim and fit irregular shaped areas.
5. Install strips of sod with their longest dimension perpindicular to the slope. On slopes of 3:1 or greater, or wherever erosion may be a problem, secure sod with pegs or staples.
6. As sodding of clearly defined areas is completed, roll sod to provide good contact between roots and soil.
7. After rolling, irrigate until the soil is wet 4 inches below the sod.
8. Keep sodded areas moist to a depth of 4 inches until the grass takes root. This can be determined by tugging on the sod.
9. Mowing should not be attempted until the sod is firmly rooted, usually 2—3 weeks.

Sodded Waterways
1. Prepare soil as described above.
2. Lay sod strips perpindicular to the direction of flow, with the lateral joints staggered in a brick—like pattern. Butt edges tightly together.

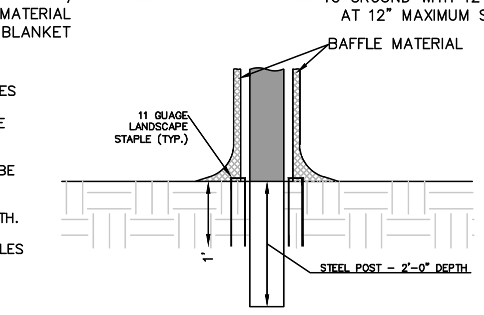
Maintenance—
After the first week, water as necessary to maintain adequate moisture in the root zone & prevent dormancy of the sod.

Do not remove more than one—third of the shoot in any one mowing. Grass height should be maintained between 2—3 inches unless otherwise specified.

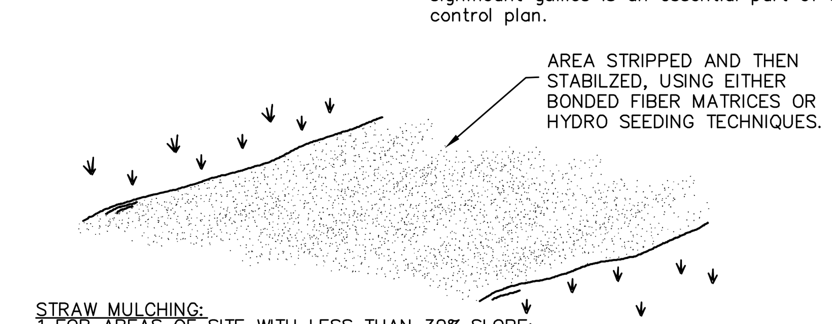
After first growing season, established sod requires fertilization, and may also require lime. Follow soil test recommendations.



NOTES
1. INSTALL THREE (3) COIR FIBER BAFFLES IN SEDIMENT BASINS AT DRAINAGE OUTLETS WITH A SPACING OF 1/4 THE BASIN LENGTH.
2. TWO (2) COIR FIBER BAFFLES SHALL BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 OF THE BASIN LENGTH.
3. TOP HEIGHT OF THE COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.



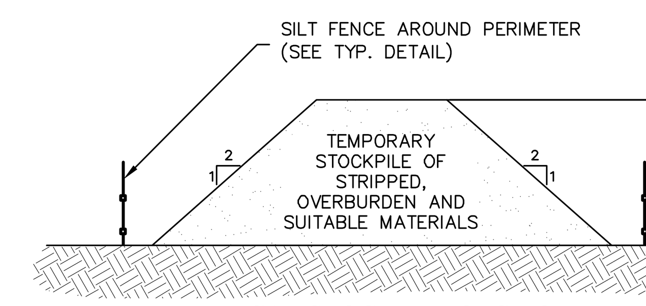
POROUS COIR FIBER BAFFLE DETAIL
NOT TO SCALE



STRAW MULCHING:
1. FOR AREAS OF SITE WITH LESS THAN 30% SLOPE; 2—3 BALES OF STRAW EQUALS 2—INCHES OF STRAW MULCH OVER 1000 SQARE FEET.
2. MULCH SHALL BE WEED FREE STRAW.

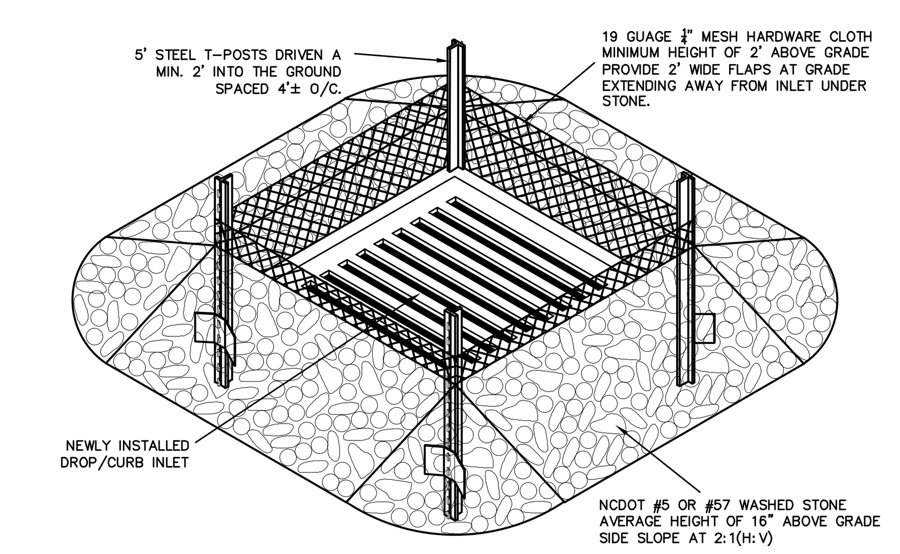
TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 14 CALENDAR DAYS, OR 7 DAYS IN INDENTIFIED CRITICAL AREAS, WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE.

LAND DISTURBANCE & STABILIZATION DETAIL
NOT TO SCALE



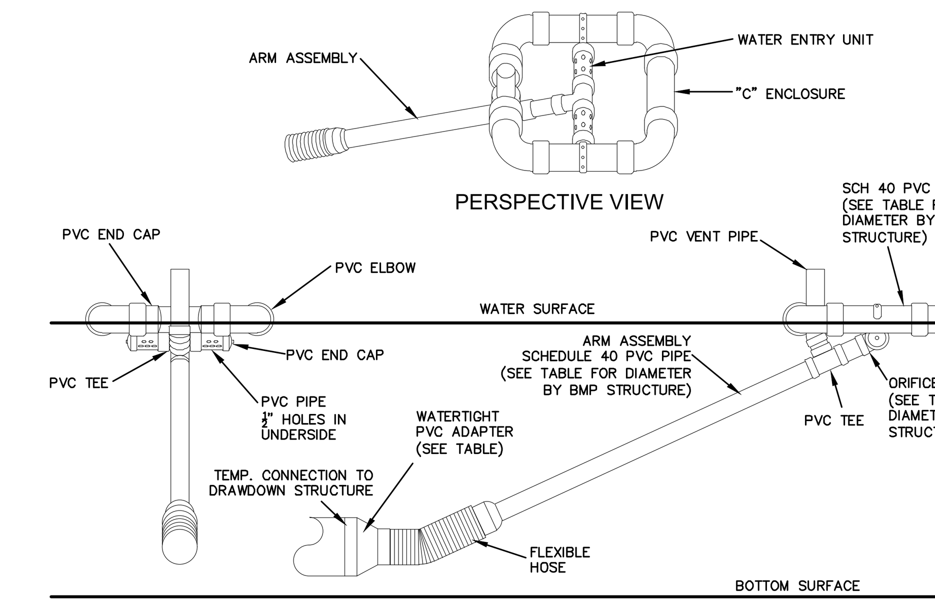
TYPICAL STOCKPILE SECTION
NOT TO SCALE SECTION VIEW

STOCKPILE CONSTRUCTION SPECIFICATION
1. INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE AREA. LEAVE OPENING AS NECESSARY FOR ACCESS.
2. STOCKPILES HAVING 2:1 SIDE SLOPES ARE CONSIDERED CRITICAL AREAS.
3. SEE STABILIZATION NOTES FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS.
4. LEVEL GRADE AREA AND STABILIZE AT COMPLETION.



DROP/CURB INLET PROTECTION
NOT TO SCALE ISOMETRIC VIEW

INLET PROTECTION SPECIFICATIONS
1. INSPECT AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½" OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE DEBRIS FROM MESH AND REPLACE STONES AS NEEDED.
2. REMOVE ONCE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

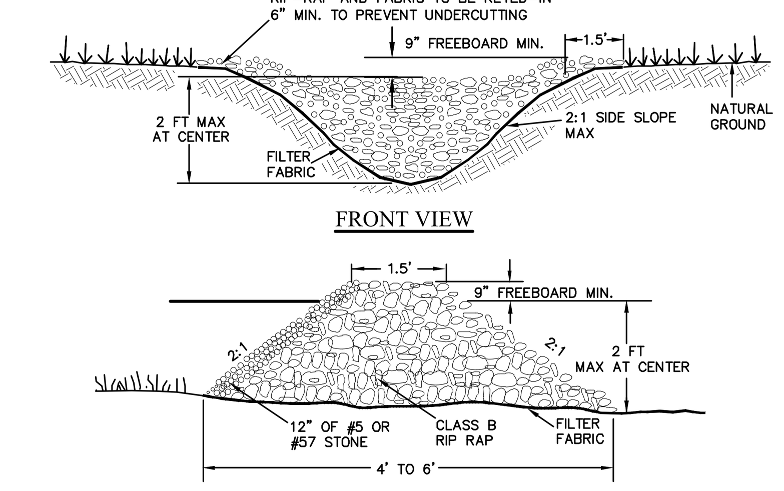


TYPICAL SKIMMER DETAIL
NOT TO SCALE LOCATION AS NOTED ON PLAN

DETAIL MODIFIED FROM NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL

BASIN	PVC ARM AND ENCLOSURE DIA.	ORIFICE PLATE DIA.	PVC ADAPTER
WET—DET POND	2.0 INCHES	1.25 INCHES	AS REQ'D

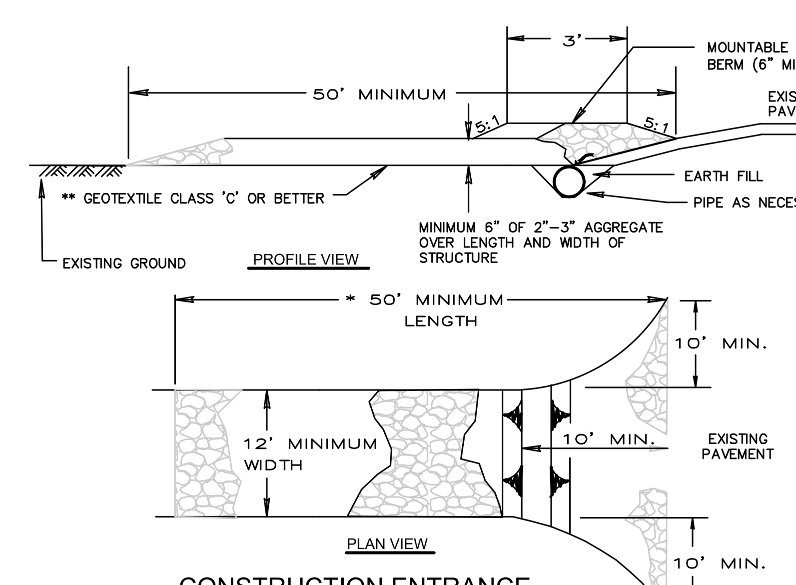
SKIMMER TABLE



TEMPORARY STONE CHECK DAM CONSTRUCTION
NOT TO SCALE LOCATIONS AS NOTED ON PLAN

TEMPORARY STONE CHECK DAM 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 STOCKPILE OR DISPOSAL OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA.
2. PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
3. KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
4. EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
5. ALL CUT AND FILL SLOPES SHOULD BE 2:1 OR FLATTER.
6. PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
7. MATERIAL USED IN THE STONE SECTION SHOULD BE A WELL—GRADED MIXTURE OF STONE WITH A d50 SIZE OF 9 INCHES(CLASS B EROSION CONTROL STONE IS RECOMMENDED) AND A MAXIMUM STONE SIZE OF 14 INCHES. THE STONE MAY BE MACHINE PLACED AND THE SMALLER STONES WORKED INTO THE VOIDS OF THE LARGER STONES. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER—RESISTANT.
8. STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION.
9. ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACES STONES.

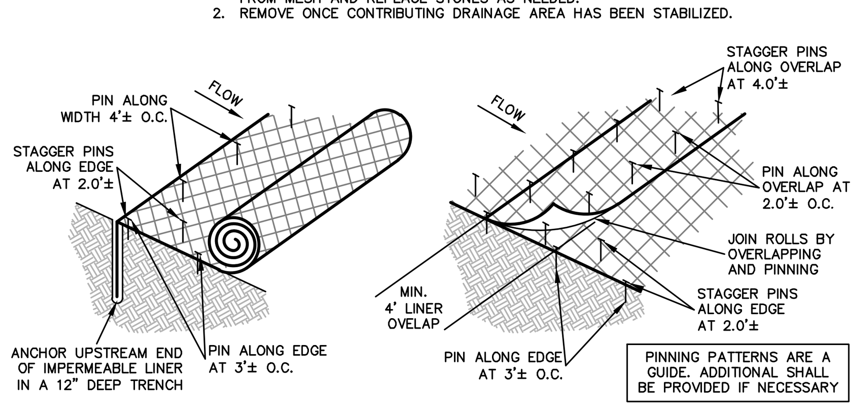
MAINTENANCE OF TEMPORARY STONE CHECK DAMS
1. INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½" OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS WHEN NEEDED.
2. REMOVE SEDIMENT ACCUMULATION BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.



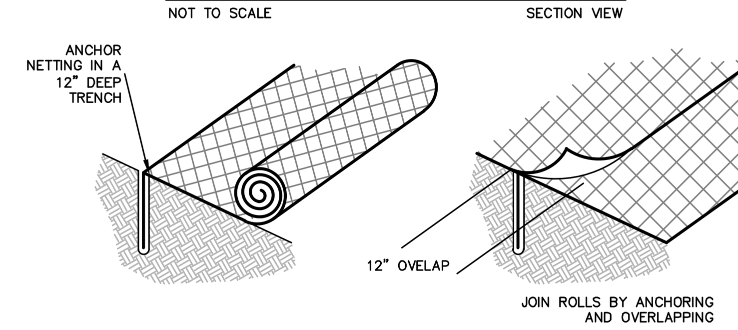
CONSTRUCTION ENTRANCE
NO SCALE LOCATION AS NOTED ON PLAN

CONSTRUCTION ENTRANCE SPECIFICATIONS
1. LENGTH — MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).
2. WIDTH — 12' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE — CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER — ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM WILL BE REQUIRED.
6. LOCATION — A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

MAINTENANCE OF CONSTRUCTION ENTRANCE
1. MAINTAIN THE GRAVEL ENTRANCE IN A CONDITION TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
2. PERIODIC TOP DRESSING WITH 2" STONE MAY BE NECESSARY AFTER SIGNIFICANT RAINFALL EVENTS.
3. INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

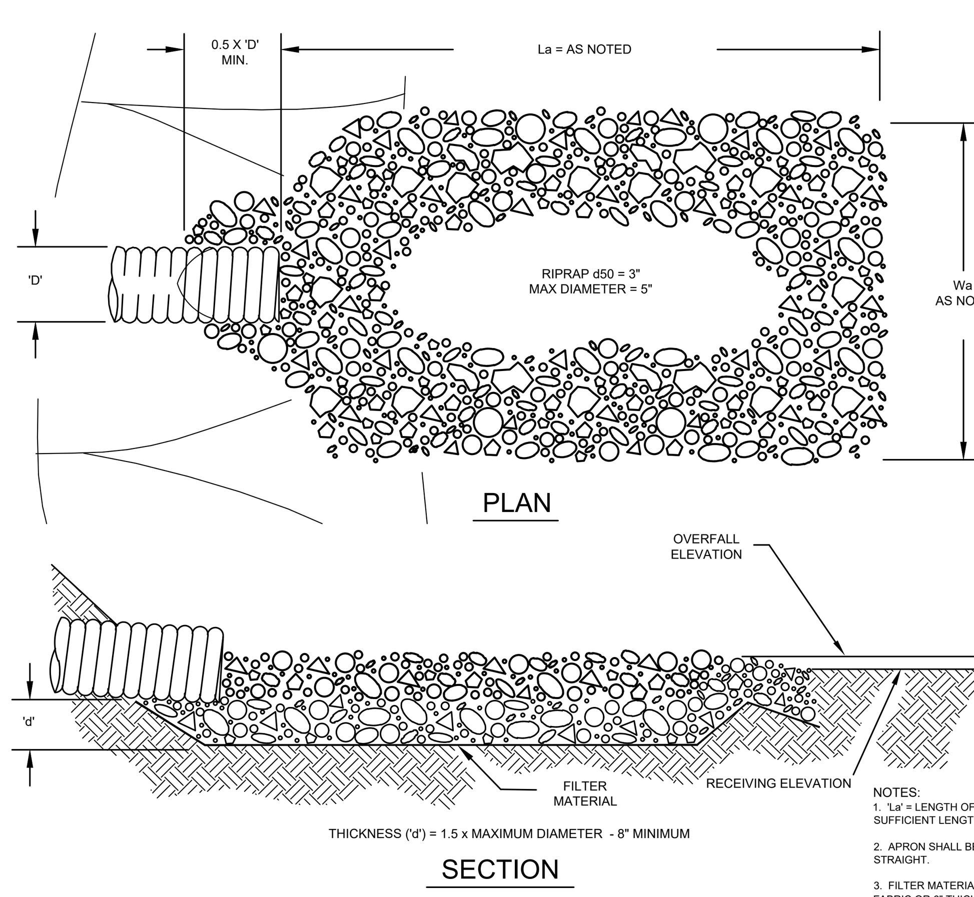


ROLLED LINER CONNECTION DETAIL
NOT TO SCALE SECTION VIEW



ROLLED EROSION CONTROL MATTING DETAIL
NO SCALE LOCATION AS NOTED ON PLAN

ROLLED EROSION CONTROL MATTING (R.E.C.M.) SPECIFICATIONS
1. ALL AREAS IDENTIFIED ON THESE PLANS AS REQUIRING AN EROSION CONTROL MATTING SHALL BE LINED WITH A PROTECTIVE COVERING TO MINIMIZE EROSION AND PROTECT SEED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
2. COVERING SHALL BE COMPOSED OF A BIO OR PHOTO DEGRADABLE MATERIAL TO MINIMIZE LONG TERM ENVIRONMENTAL IMPACTS.
3. MULCHING WITH STRAW OR OTHER ORGANIC MATERIALS CAN BE UTILIZED ONLY WHEN IT WILL NOT IMPEDE THE ESTABLISHMENT OF PERMANENT VEGETATION. MULCHES MUST BE PROPERLY ANCHORED WHICH MAY BE DIFFICULT IN SOME ENVIRONMENTS. AN EXAMPLE IS STRAW MULCH WITH JUTE NETTING STAPLED OR PINNED IN PLACE.
4. PRE—MANUFACTURED ROLLED EROSION CONTROL PRODUCTS (RECP) ARE HIGHLY RECOMMENDED FOR THIS APPLICATION. RECP'S SHALL BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS FOR CHANNEL LININGS. AN EXAMPLE IS A WOVEN STRAW OR WOODEN FIBER EXCELSIOR MATTING.



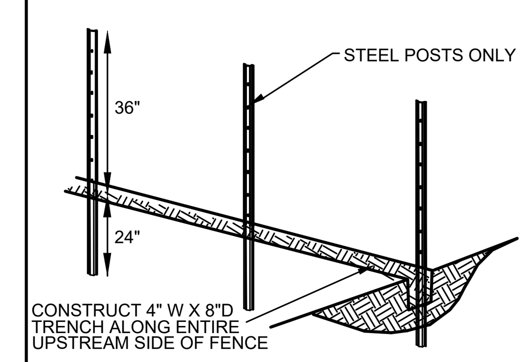
NOTES:
1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE GEOTEXTILE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.
4. **INSTALL PIPE INLET/OUTLET PROTECTION MEASURES AT THOSE LOCATIONS INDICATED ON THE PLAN. PHASE INSTALLATIONS AS REQUIRED PER PROJECT PHASING**

RIP-RAP PIPE OUTLET PROTECTION
NOT TO SCALE SEE PLAN FOR LOCATION

POSTS MUST BE 1.33 LB/LINEAR FT. STEEL WITH A MIN. LENGTH OF 5'. POST SHALL HAVE PROJECTIONS TO FACILITATE FASTENING OF FILTER FABRIC.

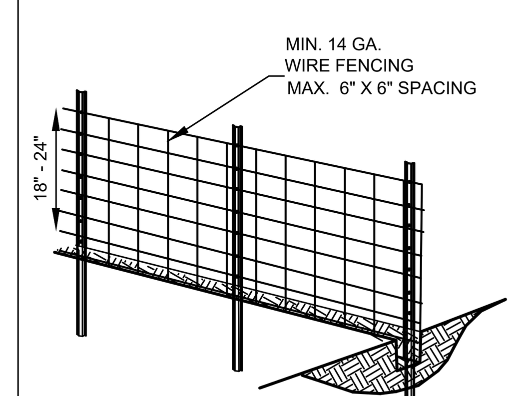
INSTALL POSTS 8' O.C. MAX WHEN STANDARD FABIRC & WIRE SUPPORT FENCE ARE UTILIZED.

INSTALL POSTS 6' O.C. MAX WHEN EXTRA STRENGTH FABIRC WITHOUT WIRE FENCE IS UTILIZED.



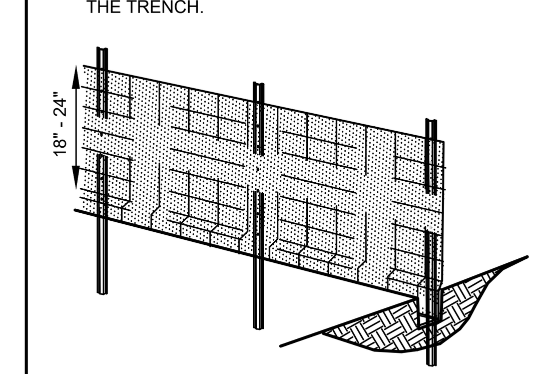
STEP 1

WHEN STANDARD STRENGTH FILTER FABRIC IS UTILIZED WIRE FENCING MUST ALSO BE INSTALLED ON UPSTREAM SIDE OF POSTS. EXTNED MAX. 24" ABOVE EXISTING GRADE TO BOTTOM OF TRENCH.



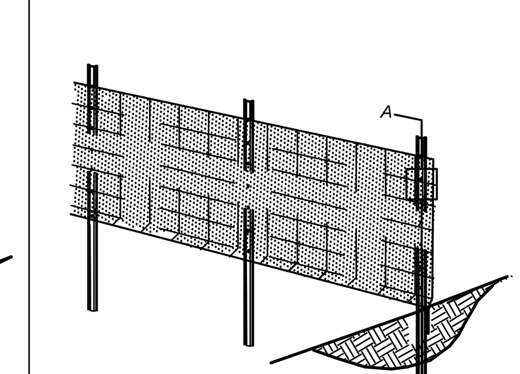
STEP 2

FASTEN THE FILTER FABRIC TO THE UPSTREAM SIDE OF POSTS OR WIRE FENCE IF UTILIZED. EXTEND FABRIC 8" DOWN & 4" FORWARD ALONG THE TRENCH.



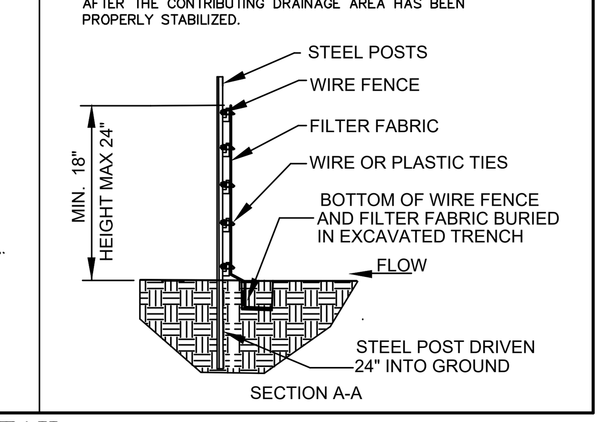
STEP 3

BACKFILL THE TRENCH AND COMPACT THE SOIL FIRMLY TO ANCHOR THE BOTTOM OF THE SILT FENCE. BURIED FABRIC SHALL NOT BE VISIBLE.



STEP 4

1. USE SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461. FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120°F.
2. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE.
3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FT MINIMUM OVERLAP TO THE NEXT POST.
4. SYNTHETIC FILTER FABRIC SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH MIN. 50 LB. TENSILE STRENGTH WIRE OR ZIP TIES AT TOP, MID—SECTION AND BOTTOM. FABRIC HEIGHT SHALL BE BETWEEN 18" MIN. TO 24" MAX. ABOVE GROUND LEVEL ON THE UPSLOPE SIDE OF THE POSTS. EXTRA STRENGTH FILTER FABRIC W/6' POST SPACING SHALL BE SECURELY FASTENED DIRECTLY TO POSTS.
5. 12 INCHES OF FILTER FABRIC SHALL BE BURIED IN AN EXCAVATED TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER. BACKFILL TRENCH WITH MECHANICALLY COMPACTED SOIL PLACED OVER THE FILTER FABRIC. DO NOT ATTACH FILTER FABRIC TO TREES.
6. SILT FENCE SHALL BE INSPECTED AT LEAST ONCE A WEEK & AFTER EACH RAINFALL EVENT. MAKE ANY REPAIRS IMMEDIATELY. SHOUD THE FABRIC COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
7. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
8. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



SECTION A-A

TYPICAL SILT FENCING DETAIL
NOT TO SCALE LOCATION AS NOTED ON PLAN

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Kitty Hawk, North Carolina 27949
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BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors and Environmental Specialists

EROSION & SEDIMENT CONTROL
CONSTRUCTION NOTES & DETAILS

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PROJECT:
BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE	DESCRIPTION	BY

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

DATE: 8/21/26	SCALE: AS NOTED
DESIGNED: BPG	CHECKED: MSB
DRAWN: DMK	APPROVED: BPG

SHEET: 11 OF 16
CAD FILE: 474000B7
PROJECT NO: 4740

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PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years*

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

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

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

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,

(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,

(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,

(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NORTH CAROLINA
Department of Environmental Quality

INSPECTION, RECORD KEEPING AND REPORTING

Effective:
April 1, 2024

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BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors and Environmental Specialists

EROSION & SEDIMENT CONTROL
NCG01- INSPECTION & REPORTING NOTES

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PROJECT:
BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE	DESCRIPTION	BY

PRELIMINARY
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DATE: 8/21/26	SCALE: AS NOTED
DESIGNED: BPG	CHECKED: MSB
DRAWN: DMK	APPROVED: BPG
SHEET: 12 OF 16	
CAD FILE: 474000B7	
PROJECT NO: 4740	

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers. • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting (PRSM) • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not consitute permanet stabilization prior to the establishment of permanent vegetation.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

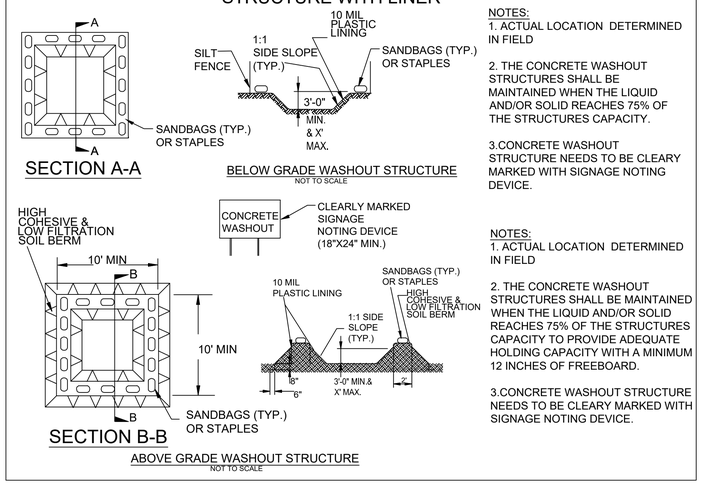
EARTHEN STOCKPILE MANAGEMENT

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

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

NORTH CAROLINA
Department of Environmental Quality

GROUND COVER & MATERIALS HANDLING

Effective:
April 1, 2024

Bissell Professional Group
Firm License # C-956
Firm ID # C-0956
P.O. Box 1088 North Carolina 27949
(252) 261-2101
FAX (252) 261-1760
BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors and Environmental Specialists

EROSION & SEDIMENT CONTROL
NCG01-GROUND COVER & MATERIALS NOTES

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PROJECT:
BAXTER CORNER
MOYOCK TOWNSHIP CURRITUCK COUNTY NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE	DESCRIPTION	BY

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

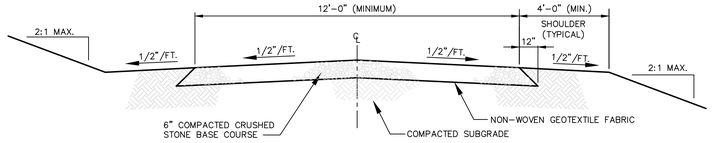
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DRAWN: DMK	APPROVED: BPG

SHEET: 13 OF 16
CAD FILE: 474000B7
PROJECT NO: 4740

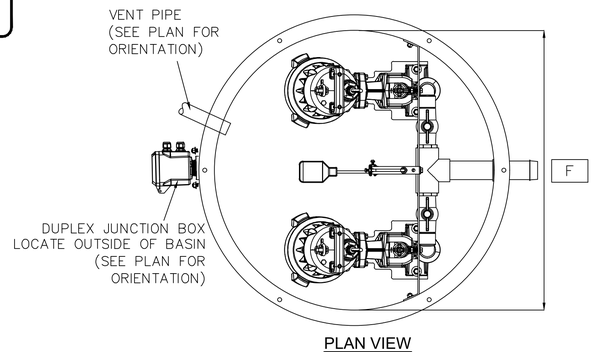
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WASTEWATER COLLECTION SYSTEM PUMP STATION SCHEDULE	
DIMENSION	
A: TOP OF TANK	12.00 MSL
B: GROUND ELEV.	11.50' ± MSL
C: HEIGHT OF WET WELL	XX.XX' (XXX")
D: INV. IN	3.80' MSL
E: BOTTOM OF WET WELL	X.XX' MSL
F: DIAMETER OF TANK	X' INSIDE
G: F.M. ELEV. OUT	8.50' ± MSL
H: F.M. DIAMETER	X.XX"
I: HIGH WATER ALARM LEVEL	X.XX' MSL
J: LAG PUMP ON	X.XX' MSL
K: LEAD PUMP ON	X.XX' MSL
L: BOTH PUMPS OFF	X.XX' MSL
M: D-E	X.XX'
N: AUTO DIALER FLOAT	X.XX'
O: PANEL/VENT ELEV.	15.00' MSL
PUMP AND MOTOR DATA	
DESIGN FLOW (Q)	XX GPM
TOTAL DYNAMIC HEAD (TDH)	XX
RECOMMENDED PUMP OR APPROVED EQUAL	DUPLEX SERIES SUBMERSIBLE GRINDER PUMPS, 2.0 HP, 200V, 1 PHASE, 60 Hz, 15 AMP, -OR APPROVED EQUAL-

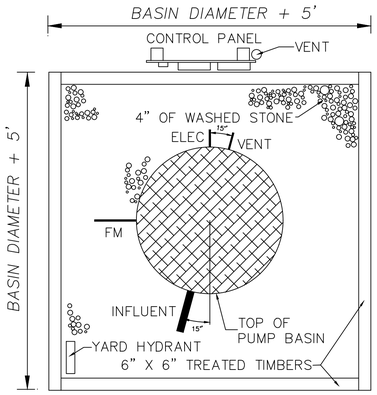
NOTES:
1. THIS PUMP STATION HAS BEEN DESIGNED TO COMPLY WITH NCAC 15A 2T.0305 AND MEETS OR EXCEEDS ALL REQUIREMENTS OF FAST-TRACK PERMITTING, MINIMUM DESIGN CRITERIA.
2. DESIGN PUMPING CAPACITY: _____ GPM, @ _____ TDH
3. PUMP SELECTION:
4. ALL HATCHES SHALL BE PADLOCKED AT ALL TIMES.
5. ALL DISCHARGE PIPING SHALL BE SCH 40 PVC CONFORMING TO ASTM D1785.
6. ALL CONTROL SYSTEM ENCLOSURES SHALL BE NEMA 4X RATED.
7. ALL TANKS SHALL BE LEAK TESTED UTILIZING A STATIC WATER TEST AS SPECIFIED.
8. ALL COMPONENTS WITHIN THE PUMP STATION SHALL BE STAINLESS STEEL INCLUDING GUIDE RAILS, BRACKETS, BOLTS, LIFTING CHAIN, ETC.
9. WATERTIGHT GASKETS SHALL BE PROVIDED BY PUMP STATION MANUFACTURER.
10. LIFT OUT RAIL SYSTEM SHALL BE ALL STAINLESS STEEL COMPONENTS, MODEL OR APPROVED EQUAL.
11. ACCESS HATCHES SHALL BE HALLIDAY MODEL SIR3648 WITH 36" X 48" OPENING OR SIR3648 WITH 36" X 36" OPENING OR APPROVED EQUAL.
12. AN ALL WEATHER ACCESS ROAD SHALL BE PROVIDED TO THE LIFT STATION.
13. THE WET WELL, VALVE VAULT & CONTROL PANELS SHALL BE SECURELY LOCKED AT ALL TIMES.
14. CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING EXISTING POWER VOLTAGE AND PHASE PRIOR TO ORDERING PUMPS & CONTROLS
15. ADDITIONAL WASTEWATER FLOWS SHALL NOT BE MADE TRIBUTARY TO THE LIFT STATION UNTIL A REQUEST FOR A PERMIT MODIFICATION IS SUBMITTED & APPROVED BY NCDENR-DWQ.



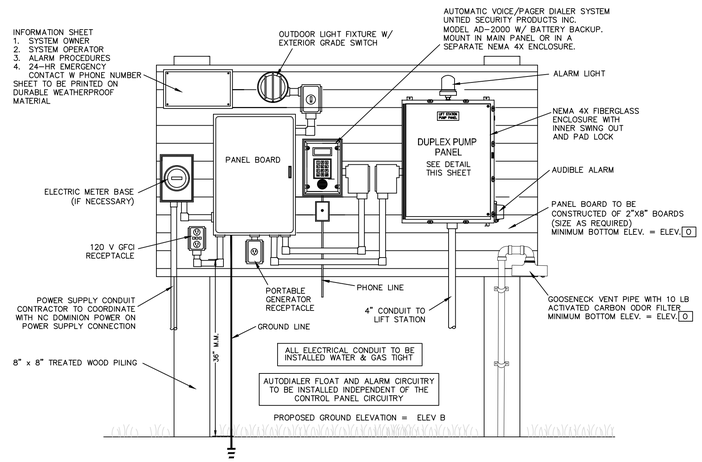
PUMP STATION ACCESS ROAD
NOT TO SCALE



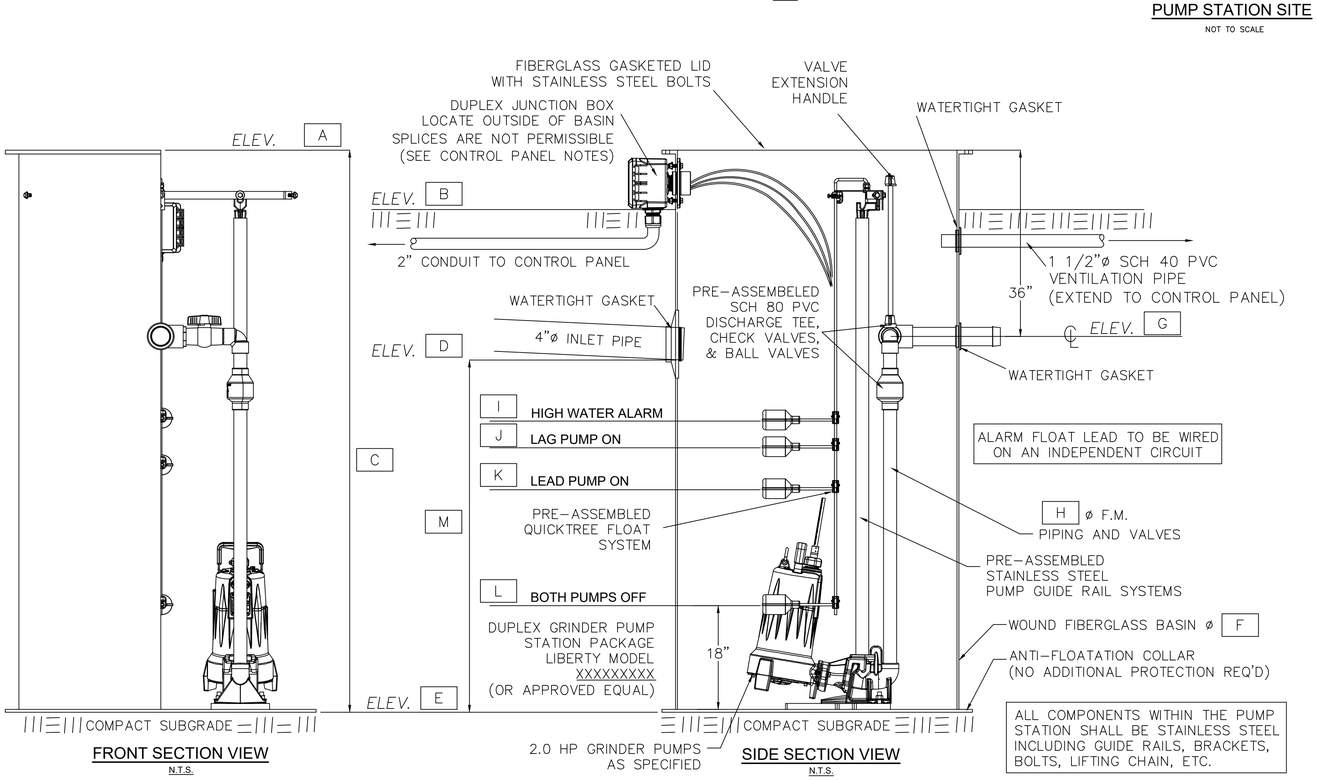
PLAN VIEW
N.T.S.



PUMP STATION SITE
NOT TO SCALE



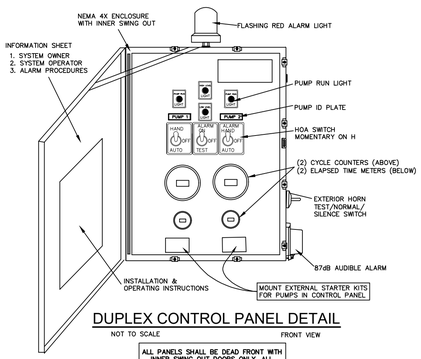
PUMP STATION CONTROL PANEL
NOT TO SCALE



FRONT SECTION VIEW
N.T.S.

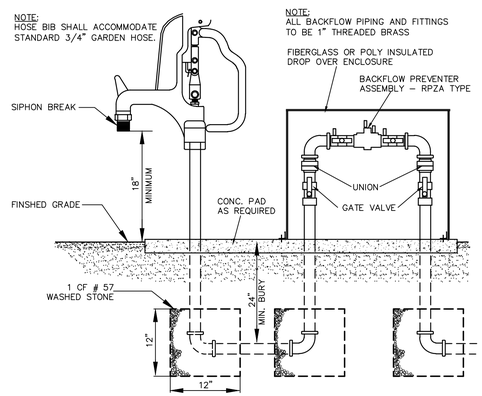
SIDE SECTION VIEW
N.T.S.

DUPLEX GRINDER PUMP STATION DETAILS
N.T.S.



DUPLEX CONTROL PANEL DETAIL
NOT TO SCALE — FRONT VIEW

ALL PANELS SHALL BE DEAD FRONT WITH INNER SWING OUT DOORS ONLY. ALL ENCLOSURES SHALL BE NEMA 4X RATED ONLY. NO EXCEPTIONS



FROST-PROOF YARD HYDRANT DETAIL
NOT TO SCALE

Bissell Professional Group
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1020 Birch Ridge Drive
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Raleigh, North Carolina 27949
(919) 362-5541
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BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors and Environmental Specialists

WASTEWATER LIFT STATION
TYPICAL CONSTRUCTION DETAILS

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PROJECT:
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MOYOCK TOWNSHIP — CURRITUCK COUNTY — NORTH CAROLINA
COMMERCIAL SITE DEVELOPMENT PLANS

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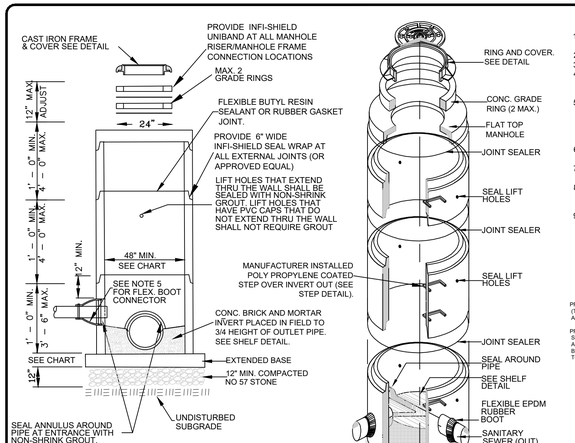
NO.	DESCRIPTION	DATE	BY

PRELIMINARY
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DATE:	SCALE:
8/21/26	AS NOTED
DESIGNED: BPG	CHECKED: MSB
DRAWN: DMK	APPROVED: BPG

SHEET: 14 OF 16
CAD FILE: 474000B7
PROJECT NO: 4740

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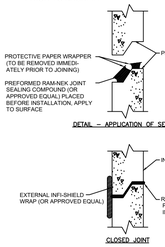


STANDARD PRECAST CONCRETE MANHOLE

NOT TO SCALE (ALL MH SHALL HAVE EX. BASES)

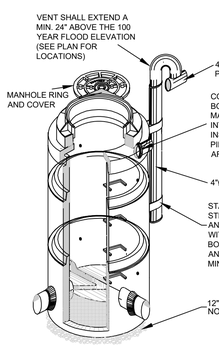
A FILLETED INVERT FOR A SMOOTH TRANSITION OF FLOW BETWEEN INLET & OUTLET PIPE SHALL BE PROVIDED.

NOTES:
1. PRECAST REINFORCED CONCRETE MANHOLES SHALL BE IN ACCORDANCE WITH ASTM C-478.
2. MIN. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI.
3. ALL MANHOLES SHALL HAVE MIN. 6" EXTENDED BASE.
4. FLEXIBLE BUTYL RESIN JOINT SEALANT SHALL BE IN ACCORDANCE W/ ASTM C990. RUBBER GASKET JOINTS SHALL BE IN ACCORDANCE W/ASTM C-443.
5. FLEXIBLE EPDM RUBBER BOOT CONNECTORS SHALL BE IN ACCORDANCE W/ ASTM C923, INSTALLED BY MANUFACTURER W/STAIN- LESS STEEL COMPRESSION RING AND TAKE-UP CLAMP. CONNECTION TO MAIN SHALL BE BY CONTRACTOR WITH STAINLESS STEEL PIPE CLAMP.
6. MORTAR SHALL BE QUICK SETTING, NON-SHRINK GROUT MIXED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. MANHOLE STEPS SHALL BE IN ACCORDANCE WITH ASTM C478 AND OSHA REGULATIONS ALIGN W/INVERT OUT.
8. PREFORMED MANHOLE INVERTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED BY THE PROJECT ENGINEER. STANDING WATER IN INVERT OF MANHOLE IS NOT ACCEPTABLE.
9. ALL MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ASTM C1244 "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE (VACUUM) TEST PRIOR TO BACKFILL.



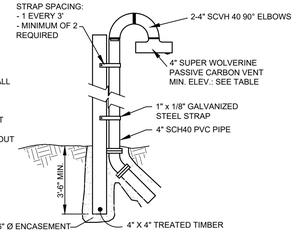
JOINT SEAL DETAIL

NOT TO SCALE



STANDARD PRECAST CONCRETE MANHOLE WITH VENT PIPING

NOT TO SCALE

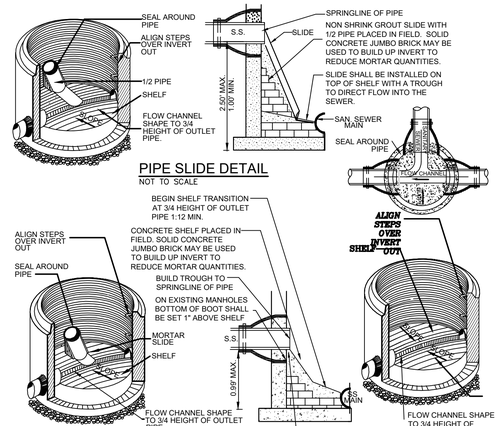


VENT PIPING DETAIL

NOT TO SCALE

NOTES:
1. VENT PIPE OPENING IN PRECAST CONCRETE MANHOLE WALL SHALL BE CAST OR CORED WITH A CONCRETE CORING MACHINE.
2. LOCATION OF VENT PIPE SHALL BE AS DIRECTED BY THE CONSTRUCTION INSPECTOR WITH WATERTIGHT RING AND COVER VENT TOP TO BE ELEVATED AT LEAST 12" ABOVE THE 100 YEAR FLOOD PLAIN ELEVATION.
3. PASSIVE CARBON VENT FILTERS SHALL ONLY BE INSTALLED ON LIFT STATIONS AND MANHOLES WITH VENT PIPING. (SEE VENTED MANHOLE SCHEDULE)

VENTED MANHOLE SCHEDULE	
MANHOLE #	MIN. ELEVATION
MH--02	13.0'



PIPE SLIDE DETAIL

NOT TO SCALE

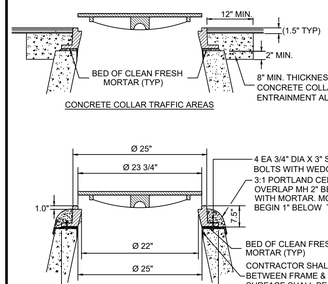
MORTAR SLIDE DETAIL

NOT TO SCALE

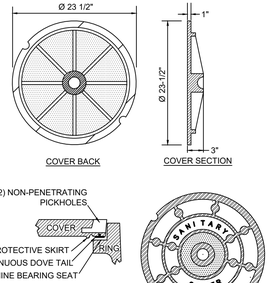
SHELF DETAIL

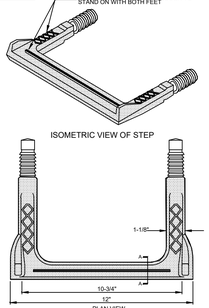
NOT TO SCALE

MORTAR AND PIPE SLIDE NOTES:
1. MORTAR SLIDE SHALL BE USED FOR LESS THAN 1 FOOT SEPARATION BETWEEN INVERT OUT & INVERT OF INCOMING PIPE.
2. PIPE SLIDE REQ'D WHERE VERTICAL SEPARATION BETWEEN PIPE INVERTS IS GREATER THAN 1 ' AND LESS THAN OR EQUAL TO 2.5'.
3. OUTSIDE DROP STRUCTURE REQUIRED WHERE VERTICAL SEPARATION BETWEEN INVERTS EXCEEDS 2.50'. SEE OUTSIDE DROP MANHOLE DETAIL.
4. VERIFY SLIDE INSTALLATION WITH PROJECT COORDINATOR PRIOR TO CONSTRUCTION.
5. MANHOLE AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STANDARD MANHOLE DETAIL.
6. BRICK USED FOR INVERT AND SHELF CONSTRUCTION SHALL BE NCDOT STANDARD CONCRETE JUMBO BRICK, MEETING ASTM C55 GRADE S-II EXCEPT ABSORPTION LESS THAN 10 LBS/CU.FT.
7. MANHOLES GREATER THAN 12' IN DEPTH SHALL HAVE MIN. 6" EXTENDED BASE.
8. THE MINIMUM SLOPE ACROSS THE INVERT OF THE MANHOLE SHALL BE 2% UNLESS OTHERWISE APPROVED BY ENGINEER
9. SEE STANDARD MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.
10. DROP AND / OR SLIDE REQUIREMENTS SHALL APPLY TO ALL LATERALS ENTERING MANHOLES AS OUTLINED IN NOTES 1,2&3. NO MORE THAN 4, FOUR INCH LATERALS OR 3, SIX INCH LATERALS SHALL ENTER A 4' DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARDLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE CONDITIONS ARE NOT MET. THE INVERT OF THE LATERAL SHALL B A MINIMUM OF 1" ABOVE THE SHELF.



CONCRETE COLLAR TRAFFIC AREAS

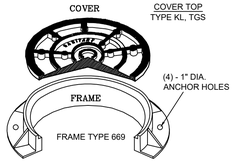


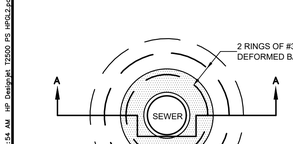


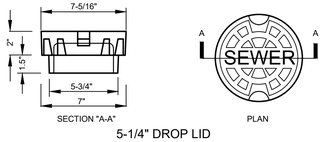
COLLAR NON-TRAFFIC AREAS

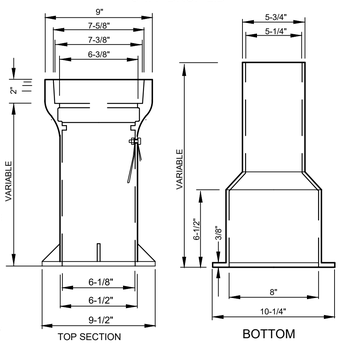
STANDARD MANHOLE RING AND COVER

NOTES: NOT TO SCALE (TO BE USED ON ALL MANHOLES)
1. MANHOLE FRAME AND COVER SHALL BE MADE OF GRAY CAST IRON CONFORMING TO ASTM-A48 CLASS 35B, MANUFACTURED BY SAME MANUFACTURER. ALL CASTINGS SHALL CONFORM TO THE SHAPE AND DIMENSIONS SHOWN. THEY SHALL BE CLEAN AND PERFECT, WITHOUT BLOW OR SAND HOLES OR DEFECTS OF ANY KIND, TENDING TO IMPAIR THEIR STRENGTH. NO PLUGGING OR STOPPING OF DEFECTIVE HOLES WILL BE PERMITTED.
2. CASTINGS SHALL BE UNPAINTED AND SHALL HAVE THE LETTERS "SANITARY SEWER" CAST INTO COVER. LETTERS SHALL BE RAISED AND CLEARLY VISIBLE.
3. MANHOLE RING AND COVER SHALL WITHSTAND H-20 VEHICULAR TRAFFIC LOADING CONDITIONS.
4. MINIMUM AVERAGE WEIGHT: PLUS OR MINUS 5% RING 190 LBS., COVER 125 LBS, UNIT 315 LBS.
5. COVERS SHALL HAVE (2) NON-PENETRATING PICKHOLES.
6. A T-GASKET SHALL BE PROVIDED BETWEEN COVER AND RING SEAT.
7. RING AND COVER SHALL BE US FOUNDRY & MFG. CORP RING MODEL 669 & COVER MODEL KL, TGS (ALTERNATES SHALL BE APPROVED BEFORE INSTALLATION)









REINFORCED CONCRETE PROTECTOR RING

CUT AWAY VIEW

NOTES:
1. CONCRETE PROTECTOR RING SHALL BE 2500 P.S.I. PRECAST REINFORCED CONCRETE
2. VALVE BOX SHALL BE AT GRADE W/PROTECTOR RING EXTENDING 1/2" ABOVE GRADE
3. SEE GATE VALVE AND BOX DETAIL
4. VALVE BOX PROTECTOR RINGS SHALL BE INSTALLED AROUND VALVE BOX IN UNPAVED NON-TRAFFIC AREAS, AND SHALL NOT CREATE A HINDERANCE TO MOWING OPERATIONS.

VALVE BOX PROTECTOR RING DETAIL

SCALE: NONE

VALVE BOX DETAIL

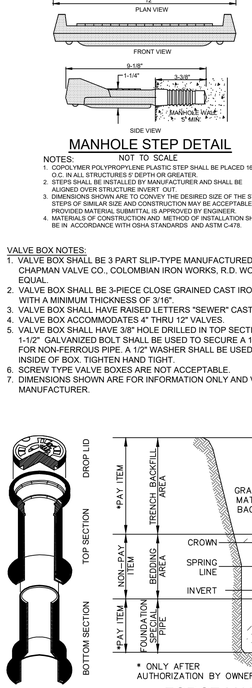
SCALE: NONE

VALVE BOX NOTES:
1. VALVE BOX SHALL BE 3 PART SLIP-TYPE MANUFACTURED BY ALABAMA PIPE CO., CHAPMAN VALVE CO., COLOMBIAN IRON WORKS, R.D. WOOD CO. OR APPROVED EQUAL.
2. VALVE BOX SHALL BE 3-PIECE CLOSE GRAINED CAST IRON SLIP-TYPE VALVE BOX WITH A MINIMUM THICKNESS OF 3/16".
3. VALVE BOX SHALL HAVE RAISED LETTERS "SEWER" CAST INTO COVER.
4. VALVE BOX ACCOMMODATES 4" THRU 12" VALVES.
5. VALVE BOX SHALL HAVE 3/8" HOLE DRILLED IN TOP SECTION THRU WHICH A 1/4" X 1-1/2" GALVANIZED BOLT SHALL BE USED TO SECURE A 12GA. THHN TRACER WIRE FOR NON-FERROUS PIPE. A 1/2" WASHER SHALL BE USED BETWEEN NUT AND INSIDE OF BOX. TIGHTEN HAND TIGHT.
6. SCREW TYPE VALVE BOXES ARE NOT ACCEPTABLE.
7. DIMENSIONS SHOWN ARE FOR INFORMATION ONLY AND VARY BASED UPON THE MANUFACTURER.

MANHOLE STEP DETAIL

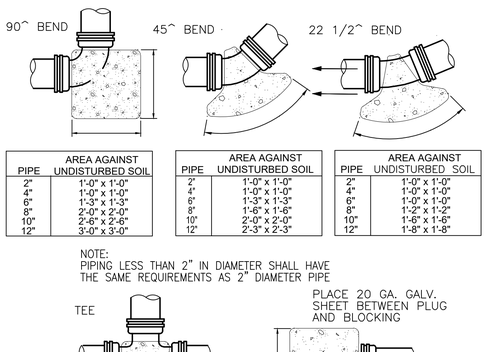
NOT TO SCALE

NOTES:
1. COPOLYMER POLYPROPYLENE PLASTIC STEP SHALL BE PLACED 16" O.C. IN ALL STRUCTURES 5' DEPTH OR GREATER.
2. STEPS SHALL BE INSTALLED BY MANUFACTURER AND SHALL BE ALIGNED OVER STRUCTURE INVERT OUT.
3. DIMENSIONS SHOWN ARE TO CONVEY THE DESIRED SIZE OF THE STEP. STEPS OF SIMILAR SIZE AND CONSTRUCTION MAY BE ACCEPTABLE PROVIDED MATERIAL SUBMITTAL IS APPROVED BY ENGINEER.
4. MATERIALS OF CONSTRUCTION AND METHOD OF INSTALLATION SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND ASTM C-478.



FORCE MAIN & GRAVITY SEWER SERVICE TRENCH DETAIL

NOT TO SCALE

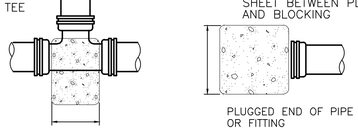


AREA AGAINST UNDISTURBED SOIL	
PIPE	
2"	1'-0" x 1'-0"
4"	1'-0" x 1'-0"
6"	1'-3" x 1'-3"
8"	2'-0" x 2'-0"
10"	2'-6" x 2'-6"
12"	3'-0" x 3'-0"

AREA AGAINST UNDISTURBED SOIL	
PIPE	
2"	1'-0" x 1'-0"
4"	1'-0" x 1'-0"
6"	1'-3" x 1'-3"
8"	1'-6" x 1'-6"
10"	2'-0" x 2'-0"
12"	2'-3" x 2'-3"

AREA AGAINST UNDISTURBED SOIL	
PIPE	
2"	1'-0" x 1'-0"
4"	1'-0" x 1'-0"
6"	1'-0" x 1'-0"
8"	1'-2" x 1'-2"
10"	1'-6" x 1'-6"
12"	1'-8" x 1'-8"

NOTE:
PIPING LESS THAN 2" IN DIAMETER SHALL HAVE THE SAME REQUIREMENTS AS 2" DIAMETER PIPE

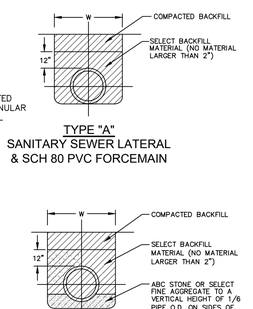


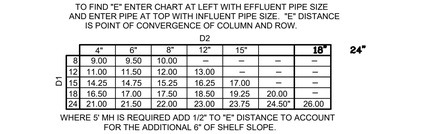
AREA AGAINST UNDISTURBED SOIL	
PIPE	
2"	1'-0" x 1'-0"
4"	1'-2" x 1'-2"
6"	1'-6" x 1'-6"
8"	1'-9" x 1'-9"
10"	2'-2" x 2'-2"
12"	2'-8" x 2'-8"

CONCRETE THRUST BLOCKING DETAILS

NOT TO SCALE

NOTE:
CONCRETE THRUST BLOCKING SHALL ONLY BE USED WHERE MECHANICAL RESTRAINTS ARE NOT FEASIBLE. PRIOR APPROVAL MUST BE OBTAINED FROM ENGINEER PRIOR TO USING THRUST BLOCKING





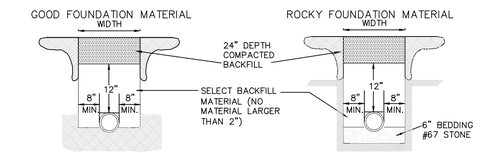
TO FIND "E" ENTER CHART AT LEFT WITH EFFLUENT PIPE SIZE AND ENTER PIPE AT TOP WITH INFLUENT PIPE SIZE. "E" DISTANCE IS POINT OF CONVERGENCE OF COLUMN AND ROW.

D1 \ D2	4"	6"	8"	12"	15"	18"	24"
8	9.00	9.50	10.00	–	–	–	–
12	11.00	11.50	12.00	13.00	–	–	–
15	14.25	14.75	15.25	16.25	17.00	–	–
18	16.50	17.00	17.50	18.50	19.25	20.00	–
24	21.00	21.50	22.00	23.00	23.75	24.50"	26.00

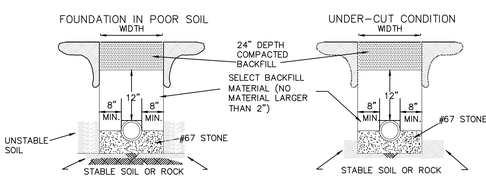
WHERE 5' MH IS REQUIRED ADD 1/2" TO "E" DISTANCE TO ACCOUNT FOR THE ADDITIONAL 6" OF SHELF SLOPE.

MANHOLE CONNECTION GUIDE

NOT TO SCALE



* SCRAPE THE BOTTOM OF THE TRENCH. REMOVE ALL STONES TO INSURE THE PIPE DOESN'T REST ON ROCK AND THEN COMPACT THE SOIL OR PROVIDE A 4" BEDDING OF #67 STONE.



NOTE :
1. NO ROCKS SHALL BE ALLOWED WITHIN 24" OF THE WATER LINES.
2. NO ROCKS LARGER THAN 6" IN ANY DIMENSION SHALL BE ALLOWED ABOVE THE INITIAL BACKFILL.
3. THE INITIAL BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LIFTS.
4. NO ORGANIC OR FROZEN MATERIAL OR DEBRIS SHALL BE ALLOWED IN THE TRENCH.
5. BELL HOLES SHALL BE DUG OUT IN ALL CASES.

TYPICAL SEWER PIPE INSTALLATION & BEDDING

NOT TO SCALE

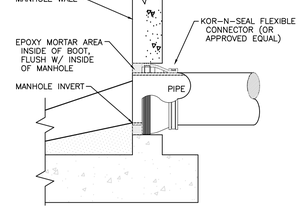
TRENCH EXCAVATION LIMITS		
NOTIONAL DIAMETER OF PIPE	WIDTH OF TRENCH	
	MAX.	MIN.
4"–6"	NO LIMIT	2'–0"
8"–10"	NO LIMIT	2'–2"
12"	3'–5"	O.D.+2'
14"–16"	4'–2"	O.D.+2'
18"	4'–8"	O.D.+2'
20"	4'–8"	O.D.+2'
24"	4'–11"	O.D.+2'
30"	5'–6"	O.D.+2'
36"	6'–0"	O.D.+2'

W=TRENCH WIDTH AT TOP OF PIPE
S=PAVEMENT REPLACEMENT WIDTH (S = W + 3'–0")

MAIN OR LATERAL MIN SLOPE
4" @2.00% MIN.
6" @ 0.67% MIN./MAIN
6" @ 2.00% MIN./LATERAL
8" @ 0.40% MIN.
12" @ 0.22% MIN.
15" @ 0.15% MIN.
18" @ 0.12% MIN.

GRAVITY SANITARY SEWER PIPE SCHEDULE		
PIPE MATERIAL	PIPE SIZE INCHES	BEDDING TYPE FOR DEPTH OF COVER SHOWN
		TYPE "B"	TYPE "C"
PVC	8"	0 – 24'	N/A
PVC	10"	0 – 24'	N/A
DIP	8"	N/A	ALL DEPTHS
DIP	10"	N/A	ALL DEPTHS

NOTES:
(1) ALL SEWER SERVICE PIPE SHALL HAVE TYPE "A" BEDDING
(2) CHANGES IN PIPE BEDDING CLASSIFICATION SHALL ONLY BE MADE AT MANHOLES.
(3) DUCTILE IRON FORCE MAIN SHALL HAVE TYPE "A" BEDDING.



FLEXIBLE MANHOLE CONNECTION DETAIL

NOT TO SCALE

1. EMBEDMENT MATERIALS, CLASSES I, II, OR III AS DESCRIBED IN ASTM D 2321, SHALL BE USED FOR BEDDING FOR BEDDING, HAUNCHING AND INITIAL BACKFILL AND CAREFULLY COMPACTED FOR ALL FLEXIBLE PIPE.
2. BEDDING CLASSES A, B, C OR CRUSHED STONE AS DESCRIBED IN ASTM C 12 SHALL BE USED AND CAREFULLY COMPACTED FOR ALL RIGID PIPE.
3. ALL EXCAVATIONS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE CONSTRUCTION STANDARDS FOR EXCAVATIONS IN OSHA "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION", CHAPTER XVII OF TITLE 29, CFR, PART 1926. THE CONTRACTOR SHALL HAVE A COMPETENT PERSON ON THE JOB AT ALL TIMES AND SHALL EMPLOY A PROFESSIONAL ENGINEER TO ACT UPON ALL PERTINENT MATTERS OF THE WORK.

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BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors and Environmental Specialists

PROJECT:

BAXTER CORNER

NORTH CAROLINA

MOYOCK TOWNSHIP CURRITUCK COUNTY

COMMERCIAL SITE DEVELOPMENT PLANS

WASTEWATER COLLECTION SYSTEM

TYP. CONSTRUCTION DETAILS

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REVISIONS

NO.	DATE	DESCRIPTION	BY

PRELIMINARY DO NOT USE FOR CONSTRUCTION

DATE:	SCALE:
8/21/26	AS NOTED
DESIGNED:	CHECKED:
BPG	MSB
DRAWN:	APPROVED:
DMK	BPG

SHEET: 15 OF 16

CAD FILE: 474000B7

PROJECT NO: 4740

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ORDER OF PRECENDENCE GENERAL NOTES/TECHNICAL SPECIFICATIONS

1. THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS. IF CONFLICTS OCCUR BETWEEN THE TECHNICAL SPECIFICATIONS AND THE NOTES CONTAINED HEREIN, THE TECHNICAL SPECIFICATIONS SHALL SUPERSEDE.

2. CONTRACTOR IS CHARGED WITH PERFORMING SITE INVESTIGATIONS TO ASCERTAIN EXISTING SITE CONDITIONS. PHOTOGRAPHIC DOCUMENTATION OF PRE-EXISTING CONSTRUCTION CONDITIONS WILL BE CONDUCTED BY THE ENGINEER FOR DETERMINATION OF COMPLIANCE WITH CONDITIONS NOTED HEREON.

GENERAL NOTES

1. ACCESS TO SITES SHALL BE BY PUBLIC RIGHT-OF-WAYS AND UTILITY EASEMENTS. OTHER ACCESS LOCATIONS REQUIRED SHALL BE SECURED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE REQUIRED TO INCLUDE CONSTRUCTION ENTRANCES, SILT FENCING, RESTORATION, ETC. ADDITIONAL MEASURES SHALL BE INCLUDED AS PART OF A SUPPLEMENTAL EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR.

2. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE CONSTRUCTION STAGING AREA AT HIS EXPENSE.

3. THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK. MAIL ADJOINING PROPERTY OWNER LETTERS TO EFFECTED PROPERTY OWNERS NOTIFYING THEM THAT WORK WILL BE OCCURRING WITHIN THE AREAS ADJOINING THEIR PROPERTIES. THIS LETTER SHALL GIVE PROPERTY OWNERS A MINIMUM OF 14 DAYS WRITTEN NOTICE PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR REMOVAL OF ANY PERSONAL ITEMS FROM THE RIGHT- OF-WAY. THE LETTER OUTLINES THE EXTENT OF THE WORK TO BE PERFORMED TO INCLUDE DRIVEWAY DISRUPTIONS.

4. CONTRACTOR SHALL MAINTAIN A NEAT AND CLEAN JOB-SITE TO INCLUDE STAGING/STORAGE AREAS AS FOLLOWS:
   - PERFORM DUST CONTROL BY WATERING DAILY OR AS DIRECTED BY THE ENGINEER AND/OR CURRITUCK COUNTY.
   - SWEEP STREETS A MINIMUM OF ONCE WEEKLY (FRIDAY) OR AS DIRECTED BY THE ENGINEER AND/OR CURRITUCK COUNTY.
   - BLADE, LEVEL AND RE-COMPACT ALL EXPOSED TRENCHES WEEKLY (OR AS DIRECTED BY THE ENGINEER) TO PRODUCE A SMOOTH "RIDE".
   - PERFORM DAILY CLEAN-UP OF ALL DIRT, DEBRIS AND SCRAP MATERIALS.
   - REMOVE EXCESS EQUIPMENT, MATERIALS, TOOLS, ETC. NOT NEEDED.
   - ANY DRIVEWAY REMOVALS MUST HAVE A TEMPORARY SURFACE INSTALLED WITHIN THE SAME DAY AS REMOVAL. APPROVED SURFACES MAY CONSIST OF EITHER ABC OR MILLINGS.

   THE WORK WITHIN RIGHT OF WAY AREAS MUST BE KEPT IN AN ORDERLY AND NEAT FASHION. NO MATERIAL (SOILS, GRAVEL OR OTHER PROJECT FILL) CAN BE PLACED DIRECTLY ON ANY STREET SURFACE WITHOUT MATTING BEING PUT DOWN FIRST. ANY DAMAGE TO ANY ROAD SURFACE FROM CONSTRUCTION ACTIVITIES MUST BE REPAIRED AT OWNERS EXPENSE.

5. EXCESS SUITABLE SOIL EXCAVATED DURING CONSTRUCTION SHALL BE STOCKPILED FOR USE ON THE PROJECT OR DISPOSED OF OFF-SITE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT BE ALLOWED TO STOCKPILE MATERIALS OR EXCESS MATERIALS IN THE STREET RIGHT-OF-WAYS AT ANY TIME. THE CONTRACTOR SHALL PROVIDE A SUFFICIENT AND SUITABLE STOCKPILE AREA AND LOCATION AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL PROVIDE MEASURES DURING CONSTRUCTION TO SECURE THE SITE AND EXCAVATION FROM THE GENERAL PUBLIC AND COMPLY WITH ALL OSHA REGULATIONS. JOB SITE SAFETY IS THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. OPEN EXCAVATION LEFT UNATTENDED OR OVER NIGHT IS NOT ACCEPTABLE AND SHALL BE FILLED IMMEDIATELY.
7. CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. NO SEPARATE PAYMENT UNLESS OTHERWISE INDICATED.
8. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE FENCES ARE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL COORDINATE FENCE REMOVAL OR REINSTALLATION WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO REMOVAL. CONTRACTOR SHALL REINSTALL ALL SHEDS, FENCES, ETC. TO AS GOOD OR BETTER THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED. (NO SEPARATE PAYMENT).
9. CONTRACTOR SHALL REPLACE ALL DISTURBED MAILBOXES, SIGNS, ETC. DISTURBED DURING CONSTRUCTION WITHIN 24 HOURS OF DISTURBANCE. PERMANENT ROAD SIGNAGE DISTURBED SHALL BE REPLACED IMMEDIATELY AND IF NECESSARY ROADWAY SIGNS SHALL BE TEMPORARILY INSTALLED IN A LOCATION CONSISTENT WITH THE NCMUTCD TO PROVIDE CONTINUOUS TRAFFIC AWARENESS OF ROADWAY CONDITIONS. (NO SEPARATE PAYMENT).
10. CONTRACTOR SHALL PROVIDE SECURITY FENCING, SECURITY GUARD, AND ANY AND ALL OTHER MEASURES CONTRACTOR DEEMS NECESSARY TO PROTECT EQUIPMENT AND MATERIALS STORED ON THE PROJECT. (NO SEPARATE PAYMENT).
11. WHERE CONTRACTOR CEASES WORK OPERATIONS FOR A 72 HOUR PERIOD OR LONGER, SUCH AS HOLIDAYS, ETC., THE FOLLOWING SHALL BE ACCOMPLISHED PRIOR TO THE WORK STOPPAGE.
    - A. CONTRACTOR SHALL STORE ALL EQUIPMENT IN THE CONTRACTOR STAGING AREA OR OFF SITE.
    - B. THE CONTRACTOR SHALL SWEEP ALL STREETS, PERFORM GENERAL CLEANUP AND SHALL PERFORM MAINTENANCE ON ALL EXPOSED PATCHES.
12. CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.
13. CONTRACTOR SHALL STORE ALL MATERIALS IN THE CONTRACTOR STAGING AREA 72 HOURS PRIOR TO INCORPORATING INTO THE WORK TO REDUCE OBSTRUCTIONS TO TRAFFIC AND INCONVENIENCE TO RESIDENTS. WHERE UTILITIES ARE BEING CONSTRUCTED IN EASEMENTS OUT OF TRAFFIC AREAS CONTRACTOR MAY STORE MATERIALS AHEAD OF CONSTRUCTION FOR A DISTANCE NOT GREATER THAN 1800 FEET UNLESS APPROVED OTHERWISE BY THE ENGINEER.
14. CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. CONTRACTOR SHALL LIMIT TREE/BUSH CLEARING IN THE TEMPORARY EASEMENTS, BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY ABSOLUTELY NECESSARY FOR CONSTRUCTION.

GENERAL NOTES SANITARY SEWER UTILITY

1. CLEANOUT ELEVATIONS AND/OR LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER WHEN NECESSARY. CLEANOUT STACK TOP ELEVATION IS DETERMINED BY INTERPOLATING FIELD DATA AND MAY NOT BE EXACT. CLEANOUT ELEVATION TOP SHALL BE SET IN ACCORDANCE WITH THE TYPICAL DETAIL DESCRIBED HEREON. (NO SEPARATE PAYMENT).

2. WHERE SANITARY SEWER MAINS ARE TO BE CONSTRUCTED WITHIN 20' OF EXISTING RESIDENCES SPECIAL CONSIDERATION SHALL BE GIVEN TO MINIMIZE UNDERMINING OR OTHERWISE DISTURBING EXISTING RESIDENCES ADJACENT TO THE SEWER MAIN. THE CONTRACTOR SHALL USE A RUBBER TIRED BACK HOE AND NO MECHANICAL COMPACTION EQUIPMENT IN THESE AREAS. THE TRENCH SHALL BE SHORED ADEQUATELY TO PREVENT ANY SLOTHING OF THE SIDE SLOPES. SUITABLE BACK FILL SHALL BE PLACED IN THE TRENCH. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR REPAIR OF STRUCTURES, FOUNDATIONS, FOOTINGS, ETC. DAMAGED DUE TO CONSTRUCTION.

3. SANITARY SEWER MANHOLE DEFLECTION ANGLE'S ARE 180 DEGREES UNLESS NOTED OTHERWISE. ALL INVERT ELEVATIONS ARE SHOWN TO THE MANHOLE CENTERLINE.

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CONSTRUCTION SEQUENCE NOTES

1. PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (I.E. TELEPHONE, GAS, CABLE, ETC.).

2. THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICTS (NO SEPARATE PAYMENT).

3. ALL SANITARY SEWER & WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE NCDENR-DWQ & NCDENR-PWS. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE N.C.D.O.T.

4. UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.

5. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).

6. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING

7. WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-IN'S TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.

8. STORM DRAINAGE REPAIRS BY CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.

9. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIAL AND PERFORM ALL WORK REQUIRED FOR INSTALLATION OF SEWER LINES, MANHOLES AND APPURTENANCES AS OUTLINED ON DRAWINGS AND ON SPECIFICATIONS, ALL OF WHICH BECOME PART OF THE CONTRACT DOCUMENTS.

10. ALL CONSTRUCTION OF SANITARY SEWER MAINS AND APPURTENANCES IN THE COLLECTION SYSTEMS SHALL BE IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS PREPARED AS PART OF THE CONTRACT DOCUMENTS AND AS APPROVED BY THE BPG, INC. ENGINEER. ALL MATERIALS SHALL BE NEW AND UNUSED. PRIOR TO CONSTRUCTION OF THE APPROVED SANITARY SEWER, CONTRACTOR SHALL PROVIDE FIELD STAKEOUT INCLUDING ADEQUATE LINE AND GRADE STAKES IN ORDER THAT SANITARY SEWER AND APPURTENANCES MAY BE CONSTRUCTED IN ACCORDANCE WITH CONTRACT DRAWINGS.

11. A PRECONSTRUCTION CONFERENCE SHALL BE HELD AT THE COMPLETION OF THE FIELD STAKEOUT WITH THE ENGINEEER AN HIS/HER REPRESENTATIVE, CURRITUCK COUNTY REPRESENTATIVE, NCDENR REPRESENTATIVE, AND ANY REQUISITE UTILITY REPRESENTATIVES THAT WILL REQUIRE COORDINATION WITH DURING THE COURSE OF CONSTRUCTION. A MINIMUM OF 2 DAYS NOTICE SHALL BE GIVEN FOR MEETING REPRESENTATIVES.

12. PREPARE PHOTOGRAPHIC DOCUMENTATION OF PRE-EXISTING CONDITIONS OF THE PROJECTED CONSTRUCTION ROUTE PRIOR TO COMMENCING WORK.

13. IF ANY DEVIATION IS CONTEMPLATED IN LOCATION OR LINE GRADE OF ANY SEWER, STRUCTURE OR APPURTENANCE AS SHOWN ON THE CONTRACT DRAWINGS, A REVISION OF THE DRAWINGS SHOWING THE PROPOSED DEVIATION SHALL BE SUBMITTED TO THE BPG, INC. ENGINEER FOR REVIEW AND APPROVAL BEFORE ANY CHANGES ARE CONSTRUCTED. MINOR FIELD CHANGES MAY BE MADE WITH APPROVAL OF BPG, INC. APPOINTED FIELD INSPECTOR. SHOULD CONTRACTOR DISCOVER AND/OR DAMAGE ANY UNDERGROUND UTILITY FACILITIES, WHICH ARE NOT SHOWN ON DRAWINGS AND/OR MARKED ON THE GROUND, CONTRACTOR SHALL PROMPTLY NOTIFY UTILITY OWNER AND OWNER'S PROJECT REPRESENTATIVE. RELOCATION OF ANY UTILITIES SHALL BE APPROVED AND COORDINATED WITH THE APPROPRIATE UTILITY OWNER.

14. EXCAVATION SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE PLANS. THE WIDTH OF EXCAVATION FOR TRENCHES SHALL BE A MINIMUM OF 24". EXCAVATION SHALL NOT BE CARRIED BELOW THE ESTABLISHED GRADES AND ANY EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH SUITABLE, THOROUGHLY COMPACTED GRANULAR BEDDING MATERIAL. CONTRACTOR SHALL INSTALL ALL SHEETING, BRACING, AND SHORING NECESSARY TO PERFORM THE WORK, TO PROTECT EXISTING STRUCTURES AND ALL EXCAVATIONS AS REQUIRED UNDER NORTH CAROLINA OSHA REGULATIONS. COMPLIANCE WITH PROVISIONS OF THE OVERHEAD HIGH VOLTAGE LINE SAFETY ACT IS REQUIRED.

15. DEWATERING EQUIPMENT SHALL BE SIZED TO MAINTAIN THE TRENCH IN A SATISFACTORY DEWATERED CONDITION SUITABLE FOR PIPE LAYING AND BACKFILLING. PIPE LAYING WILL BE PERMITTED ONLY WHERE THE DEPTH OF WATER IS MAINTAINED BELOW THE BEDDING MATERIAL. BEDDING MATERIAL SHALL NOT BE PLACED ON UNSTABLE TRENCH MATERIAL.

16. NOT MORE THAN ONE HUNDRED FIFTY FEET (150') OF TRENCH SHALL BE OPENED IN ADVANCE OF THE COMPLETED PIPE LAYING. TRENCH WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. EXCAVATION AT MANHOLES AND SIMILAR STRUCTURES SHALL PROVIDE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") BETWEEN THE OUTER SURFACE OF THE STRUCTURE AND THE EMBANKMENT OR SHEETING.

17. WHEREVER FOUNDATION MATERIAL IS UNSUITABLE, IT SHALL BE EXCAVATED UNTIL A STABLE FOUNDATION IS ACHIEVED. GRANULAR MATERIAL, #67 STONE PER ASTM C 12, SHALL THEN BE PLACED IN SIX INCH (6") LAYERS AND COMPACTED UNTIL THE TRENCH BOTTOM HAS BEEN STABILIZED. STANDARD GRANULAR PIPE BEDDING MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ASTM D 2321 FOR PVC PIPE AND ASTM C 12 FOR DIP.

18. ALL GRAVITY SEWER MAINS, SERVICE LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM COVER OF THREE FEET (3') AS MEASURED FROM TOP OF PIPE TO FINISH GRADE. THE BPG, INC. ENGINEER MAY REQUIRE ADDITIONAL COVER AS NEEDED FOR PIPE PROTECTION. SEWERS, WHICH HAVE A DEPTH OF COVER LESS THAN THREE FEET (3'), SHALL BE APPROVED AND INSTALLED AS PER BPG, INC. ENGINEER'S WRITTEN INSTRUCTIONS.

19. PIPE SHALL BE LAID TRUE TO LINE AND GRADE WITH BELLS UPSTREAM AND SHALL BE JOINTED TOGETHER SUCH THAT THE COMPLETED PIPE WILL HAVE A SMOOTH INVERT. PIPE SHALL BE PUSHED HOME BY HAND. THE USE OF EQUIPMENT (I.E. BACKHOE) SHALL NOT BE PERMITTED. CUTTING OF PIPE SHALL BE PERFORMED BY SAWING. STANDARD BEDDING SHALL BE SHAPED TO THE CURVATURE OF BOTH THE BELL AND BARREL OF THE PIPE. THE TRENCH SHALL BE KEPT FREE OF WATER WHILE THE WORK IS IN PROGRESS. THE ENDS OF THE PIPE SHALL BE CLEANED SO THAT PROPER JOINTS CAN BE MADE. AS THE WORK PROGRESSES, THE INTERIOR OF THE PIPE SHALL BE CLEARED OF DIRT, CEMENT, OR OTHER DELETERIOUS MATERIAL.

20. EXCEPT AS REQUIRED FOR USE OF A LASER LEVEL, EXPOSED END OF ALL PIPE AND FITTINGS SHALL BE FULLY CLOSED TO PREVENT EARTH, WATER OR OTHER SUBSTANCES FROM ENTERING PIPE. TRENCH SHALL BE COMPLETELY BACKFILLED AT END OF EACH WORKDAY. WHEN NEW PIPE IS TIED INTO AN EXISTING MANHOLE, NEW PIPE SHALL BE PLUGGED WITH A STANDARD SEWER PLUG AND SHALL REMAIN PLUGGED UNTIL ALL NEW LINE(S) THAT WILL FLOW TO EXISTING MANHOLE HAVE BEEN COMPLETED, TESTED, AND ACCEPTED.

21. BACKFILL SHALL BEGIN AT THE TOP OF THE STANDARD GRANULAR BEDDING AND SHALL BE PLACED IN SIX INCH (6") LAYERS FOR THE INITIAL ONE FOOT OVER THE PIPE AND SHALL BE THOROUGHLY TAMPED TO NINETY-FIVE PERCENT (95%) OF THE MAXIMUM THEORETICAL COMPACTION DENSITY AS DETERMINED BY A STANDARD PROCTOR ON THE MATERIAL. REMAINDER OF THE BACKFILL SHALL BE IN TWO FOOT (2') LAYERS PROPERLY TAMPED.

22. COMPLETION: BEFORE CONNECTING TO AN ACTIVE SYSTEM, THE LEAKAGE TESTS SHALL PROMPTLY FOLLOW INSTALLATION OF WASTEWATER PIPE INCLUDING SERVICES AND KEPT WITHIN A MAXIMUM OF 1000 FEET BEHIND THE WASTEWATER PIPE LAYING OPERATION.

23. CONTRACTOR SHALL FURNISH WEIRS, STAND PIPES, PIPE PLUGS, WATER, PRESSURE GAUGES, STOP WATCHES, AIR COMPRESSOR, VACUUM PUMP, HOSE AND SUCH MATERIALS AND ASSISTANCE AS REQUIRED TO PERFORM THESE TESTS. ALL ACCEPTANCE TESTS SHALL BE CONDUCTED BY CONTRACTOR IN THE PRESENCE OF A BPG, INC. APPOINTED INSPECTOR.

24. ACCEPTANCE TESTS SHALL NOT BE MADE UNTIL SANITARY SEWER, MANHOLES AND PROPOSED SEWER SERVICE CONNECTIONS, AS SHOWN ON THE APPROVED SEWER PLANS, HAVE BEEN INSTALLED, THE SEWER TRENCHES (INCLUDING MANHOLES AND CLEANOUT STACKS) BACKFILLED AND COMPACTED TO FINISHED SUB-GRADE.

25. CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR MAINTAINING SEWER FLOWS DURING PROJECT TO INCLUDE ANY REQUIRED BY-PASS PUMPING OF WASTEWATER BETWEEN MANHOLES DURING INSTALLATION OF SEWER LINES AND/OR MANHOLES. BY-PASS PUMPING SYSTEM SHALL PROVIDE CONTINUOUS FULL CONVEYANCE AND CONTAINMENT OF WASTEWATER PRESENT DURING THE WORK AND SHALL NOT SURCHARGE THE UPSTREAM PUMP STATION BY MORE THAN TWO (2) FEET ABOVE THE NORMAL EFFLUENT LEVELS.

26. ONCE ACCEPTANCE AND START OF THE COLLECTION SYSTEM HAS BEEN RECIEVED, THE CONTRACTOR SHALL PROCEED WITH THE ABANDONMENT PROCEDURES OF THE EXISTING WASTEWATER COLLECTION SYSTEM AS DESCRIBED HEREON.

27. THE NOTES CONTAINED HEREIN ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND PROVIDE EASY REFERENCE FOR THE CONTRACTOR. IN NO CASE SHALL THESE NOTES VOID ANY PART, SECTION OR REQUIREMENT OUTLINED IN THE TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS.

TRENCH DEWATERING DURING SEWER LINE INSTALLATION

1. ALL GROUND WATER WHICH MAY BE FOUND IN THE TRENCHES AND ANY WATER WHICH MAY GET INTO THEM FROM ANY CAUSE WHATSOEVER SHALL BE PUMPED OR BAILED OUT SO THAT THE TRENCH SHALL BE DRY DURING THE PIPE LAYING PERIOD. NO WATER SHALL BE PERMITTED TO REACH CONCRETE UNTIL IT HAS SET SUFFICIENTLY. ALL WATER PUMPED FROM THE TRENCHES SHALL BE DISPOSED OF IN A MANNER SATISFACTORY TO THE OWNER. CONTRACTOR SHALL PROVIDE AT LEAST TWO (2) PUMPS FOR EACH TRENCH OPENED IN WET GROUND AND AT THE SAME TIME, HE SHALL HAVE ONE (1) PUMP IN RESERVE.

2. IF, DURING ANY TIME THAT CONTRACTOR IS PERMITTED TO LAY PIPE IN A TRENCH CONTAINING UNAVOIDABLE TRENCH WATER AND CONSTRUCTION IS INTERRUPTED FOR ANY REASON, THE OPEN ENDS OF PIPE SHALL BE CLOSED BY WATERTIGHT PLUGS OR CAPS, OR OTHER MEANS APPROVED BY THE OWNER. IN ANY CASE, SUCH PROTECTION SHALL BE PROVIDED WHEN WORK IS SUSPENDED OVERNIGHT OR ON WEEKENDS AND HOLIDAYS, REGARDLESS OF THE CONDITION OF THE TRENCH WITH RESPECT TO WATER AT THE TIME THAT THE WORK IS SUSPENDED.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES, INCLUDING PIPES AND MANHOLES, AGAINST ANY TENDENCY TO FLOAT UNDER CONDITIONS OF HIGH WATER, WHETHER DUE TO HIGH GROUND WATER OR FLOOD CONDITIONS ON THE PROJECT SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE WHATEVER STEPS MAY BE REQUIRED, INCLUDING THE INSTALLATION AND OPERATION OF PUMPS AND PUMPING SYSTEMS, WELL POINTS OR RELIEF DEVICES, TO PREVENT ANY STRUCTURE FROM FLOATING DURING CONSTRUCTION.

4. COST OF THE NECESSARY PUMPS, WELL POINTS OR OTHER APPURTENANCES REQUIRED TO PREVENT FLOTATION SHALL BE INCLUDED IN THE UNIT PRICES BID IN THE PROPOSAL FOR THE VARIOUS BID ITEMS, AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR SUCH WORK. ANY DAMAGE WHICH MAY OCCUR TO ANY PART OF THE WORK AS THE RESULT OF THE FLOTATION EFFECT OF GROUND OR FLOOD WATERS SHALL BE REPAIRED IN A MANNER FULLY SATISFACTORY TO THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.

5. CONTRACTOR SHALL PROVIDE AND PLACE ALL NECESSARY FLUMES OR OTHER CHANNELS OF ADEQUATE SIZE TO CARRY TEMPORARILY ALL STREAMS, BROOKS, STORMWATER OR OTHER WATER, WHICH MAY FLOW ALONG OR ACROSS THE LINES OF THE PIPE LINE. ALL FLUMES OR CHANNELS THUS UTILIZED SHALL BE TIGHT SO AS TO PREVENT LEAKAGE INTO THE TRENCHES. WATER PUMPED FROM TRENCHES SHALL BE LED TO NATURAL WATERCOURSES. EXISTING SEWERS SHALL NOT BE EMPLOYED AS A DRAIN FOR THE REMOVAL OF DEWATERING WASTES.

UTILITY GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (i.e. TELEPHONE, GAS, CABLE, ETC.).

2. THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICTS (NO SEPARATE PAYMENT).

3. ALL SANITARY SEWER & WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE NCDENR-DWQ & NCDENR-PWS. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE N.C.D.O.T.

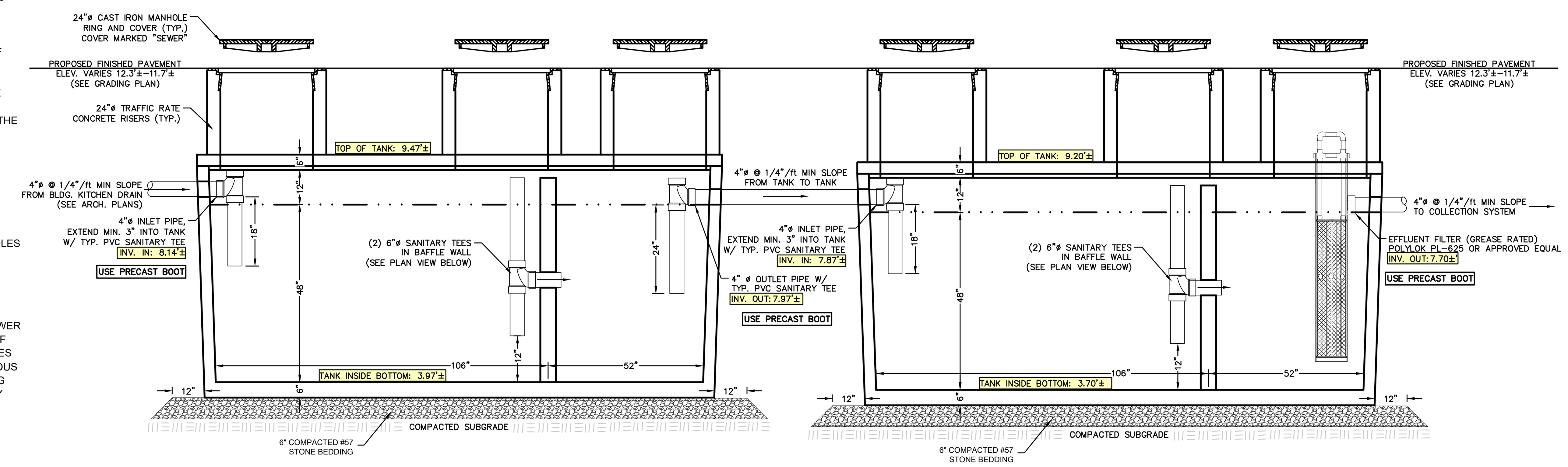
4. UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.

5. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).

6. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING

7. WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-IN'S TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARDS. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.

8. ANY DRIVEWAY CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE EITHER REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE. FILTER FABRIC CLOTH SHALL BE PLACED OVER EITHER CULVERT ENDS DURING THE COURSE OF CONSTRUCTION. ALL EX. DRAINAGE INFRASTRUCTURE WILL BE RETURNED TO PRE-EXISTING CONDITIONS PRIOR TO FINAL PROJECT APPROVALS.

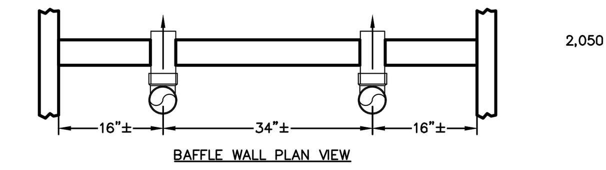


GREASE INTERCEPTOR TANK #1

2,050 GAL. GARNERS STB-406 PRECAST SEPTIC TANK - TRAFFIC RATED (CONTACT ENGINEER IF ALTERNATE TANK IS UTILIZED)

GREASE INTERCEPTOR TANK #2

2,050 GAL. GARNERS STB-406 PRECAST SEPTIC TANK - TRAFFIC RATED (CONTACT ENGINEER IF ALTERNATE TANK IS UTILIZED)



BAFFLE WALL PLAN VIEW

GREASE INTERCEPTOR DETAIL

NOT TO SCALE

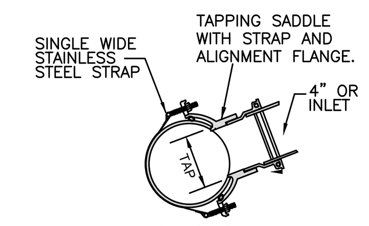
GREASE INTERCEPTOR NOTES

IT IS THE USERS RESPONSIBILITY TO VERIFY THE MINIMUM TANKAGE REQUIRED BASED ON ANTICIPATED FLOW RATES AND ORGANIC LOADS, USING GENERALLY ACCEPTED METHODS OF DESIGN SUCH AS E.P.A., N.C.D.E.H. OR UNIFORM PLUMBING CODE METHODS. THE TANKAGE PROPOSED HEREON IS DESIGNED TO SERVE THE CONDITIONS OUTLINED IN THE SPECIFICATIONS. IF ALTERNATE CONDITIONS ARE DETERMINED BY THE USER, BASED ON ALTERNATE CAPACITIES, USES OR DESIGN METHODS, ALTERNATE TANKS MAY BE ACCEPTABLE.

GREASE TANKS SHALL BE PLUMBED TO RECEIVE ALL WASTES ASSOCIATED WITH FOOD HANDLING, PREPARATION AND CLEANUP. NO TOILET WASTES SHALL BE DISCHARGED TO A GREASE TANK.

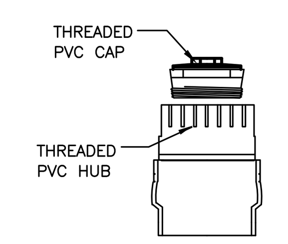
ALL TANKAGE SHALL BE SET IN AN EXCAVATED HOLE DEVOID OF GROUNDWATER. THE HOLE FOR TANKAGE SHALL BE LARGE ENOUGH TO ALLOW THE INSTALLERS TO WORK AND SHOULD BE FLAT AND LEVEL WITHOUT ANY OBSTRUCTIONS THAT COULD CRACK OR PUNCTURE THE TANK. THE BOTTOM OF THE HOLE SHALL CONSIST OF COMPACTED SAND OR FINE GRAVEL TO PROVIDE A FLAT AND CUSHIONED BEARING SURFACE FOR THE TANKAGE.

TANK LEAK TEST - HYDROSTATIC PROCEDURE [15A NCAC 18E.0805(b)(1)] FILL TANK WITH WATER TO THE UNDERSIDE OF THE TOP OF THE TANK. ALLOW TANK TO SIT FOR ONE HOUR. THE TANK IS APPROVED IF THE WATER LEVEL DROPS LESS THAN OR EQUAL TO ONE-EIGHTH INCH IN ONE HOUR. IF A LEAK IS DETECTED, THE TANK MAY BE REPAIRED IN ACCORDANCE WITH THE TANK MANUFACTURER'S WRITTEN INSTRUCTIONS, REFILLED AND RETESTED. SURFACE WETNESS OR CONDENSATION SHALL NOT BE CONSIDERED AN ACTIVE WATER LEAK. THE TANK MANUFACTURE OR INSTALLER IS ALLOWED ONE ATTEMPT TO RETEST THE TANK BEFORE THE AUTHORIZED AGENT CAN DENY THE TANK FOR USE IN THE INSTALLATION BASED ON FAILURE TO PASS THE LEAK TEST.



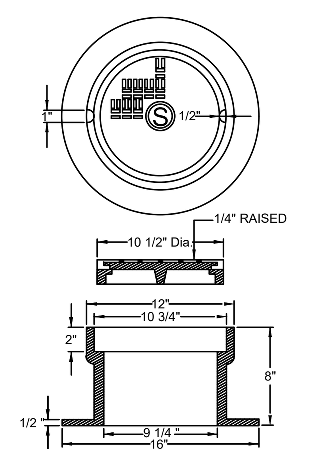
TAPPING SADDLE (OPTIONAL)

NOTE: TAP SHALL BE 4 1/2" FOR 4" LATERAL, AND SHALL BE 6 1/2" FOR 6" LATERAL.



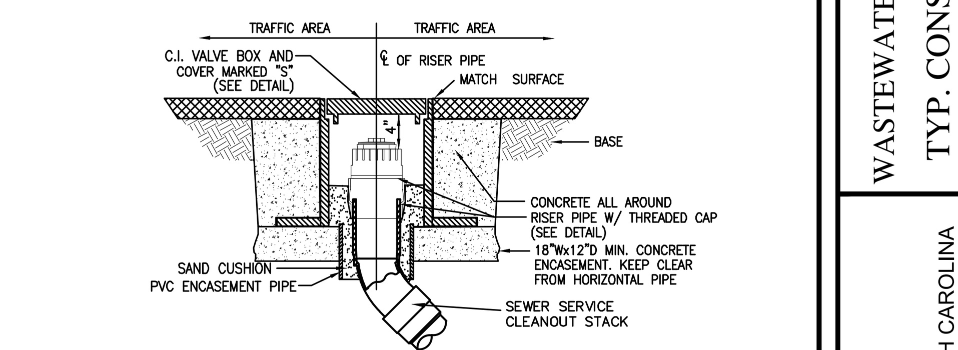
SERVICE PLUG/ C/O CAP ASSEMBLY

NOT TO SCALE — SEE CLEANOUT COVER ASSEMBLY DETAIL FOR USE IN TRAFFIC AREAS



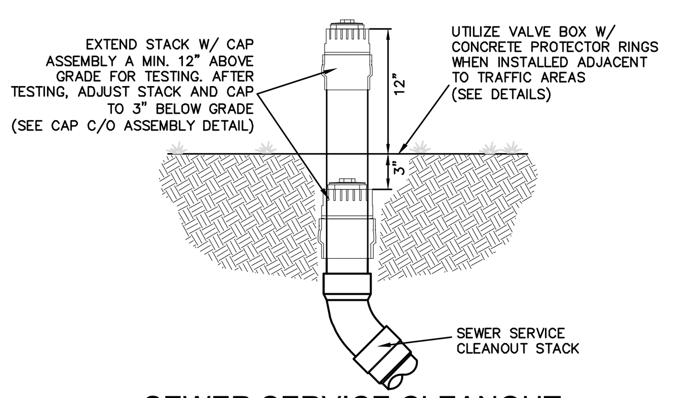
CLEANOUT COVER ASSEMBLY

NOT TO SCALE (FOR TRAFFIC AREAS)



SEWER SERVICE CLEANOUT

NOT TO SCALE (FOR TRAFFIC AREAS)



SEWER SERVICE CLEANOUT

NOT TO SCALE (FOR NON-TRAFFIC AREAS)

15A NCAC 18C .0906 - RELATION OF WATER MAINS TO NON-POTABLE WATER LINES

(a) FOR THE PURPOSES OF THIS RULE, SEWER SHALL MEAN ANY EXISTING OR PROPOSED GRAVITY OR FORCE MAIN USED TO CONVEY SANITARY OR INDUSTRIAL PROCESS WASTE.

(b) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION, IN WHICH CASE:

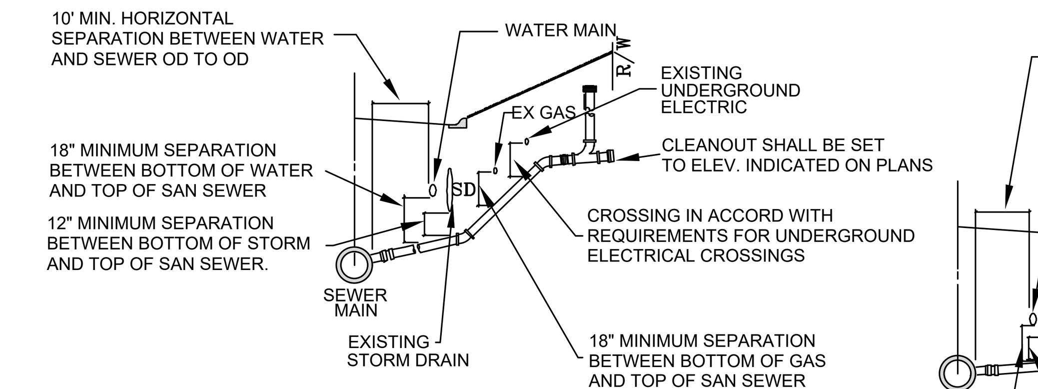
(1) THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR

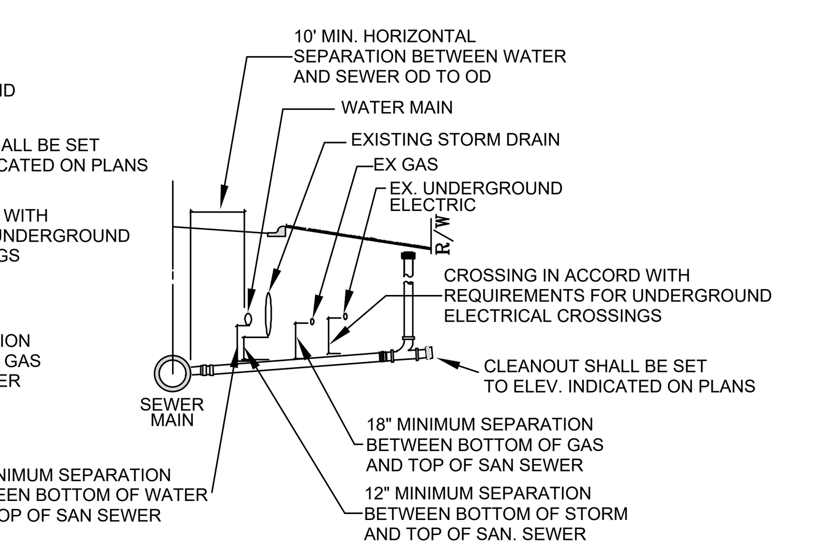
(2) THE WATER MAIN SHALL BE LAID IN THE SAME TRENCH AS THE SEWER, WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

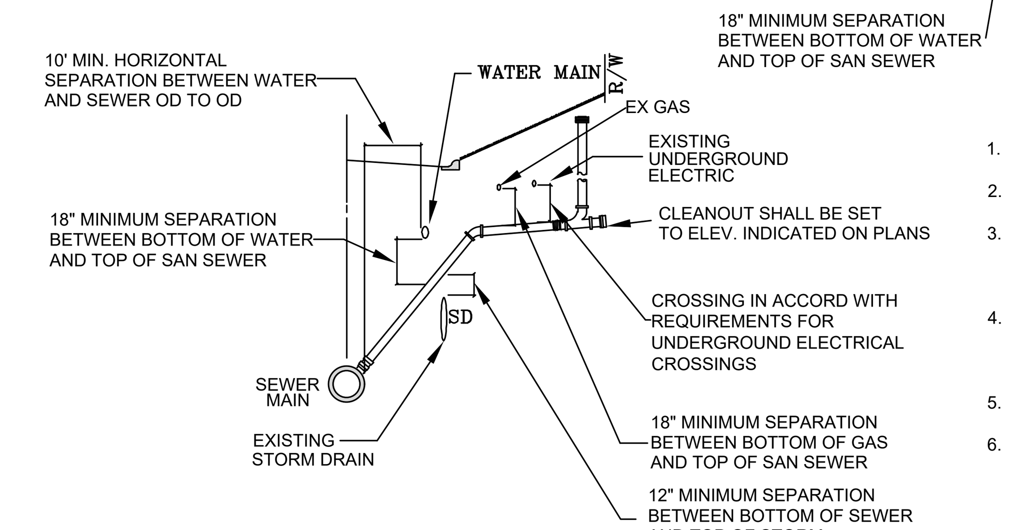
(c) CROSSINGS. A WATER MAIN THAT CROSSES A SEWER SHALL BE LAID A MINIMUM VERTICAL DISTANCE OF 18 INCHES FROM THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER, EITHER ABOVE OR BELOW THE SEWER, WITH PREFERENCE TO THE WATER MAIN LOCATED ABOVE THE SEWER. ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.

SEWER SERVICE LATERAL NOTES

1. CONTRACTOR SHALL MAKE UP STACK AND SUBMIT TO ENGINEER FOR APPROVAL AND SHALL SUBMIT TAPPING SADDLE IF USED TO ENGINEER FOR APPROVAL.
2. HOLE IN SANITARY SEWER MAIN MUST BE CUT WITH SHELL CUTTER. NO HAMMER TAPS ALLOWED.
3. LATERAL SHALL CONFORM TO ASTM SPECS. D-3034 SDR-35 UNLESS OTHERWISE INDICATED AS DUCTILE IRON.
4. ALL PIPE AND FITTINGS SHALL BE 4" OR 6" UNLESS OTHERWISE SPECIFIED.
5. ALL D.I. PIPE SHALL HAVE AN INTERIOR LINING OF CERAMIC EPOXY OR FUSED CALCIUM ALUMINATE CEMENT WITH FUSED CALCIUM ALLUMINATE AGGREGATES. THE ENTIRE D.I. LATERAL SHALL BE COMPRISED OF D.I. PIPE AND MECHANICAL JOINT FITTINGS.
6. ALL CONNECTIONS SHALL HAVE RUBBER GASKET SEALS INSTALLED.
7. THE CONTRACTOR SHALL USE SDR 35 P.V.C. WYE FOR CONNECTION TO SDR 35 P.V.C. PIPE OR DI TEE FOR CONNECTION TO DUCTILE IRON PIPE. PVC WYE SHALL BE ONE PIECE MOLDED OR FABRICATED.
8. INSTALLATION OTHER THAN AS SHOWN MUST BE ENGINEER APPROVED
9. TAPPING PROCESS SHOWN SHALL BE USED FOR ALL SANITARY SEWER MAINS.
10. SLOPE AND DEPTH OF THE SERVICE LATERAL SHALL BE DETERMINED BY THE TOPOGRAPHY OF THE LOT AS APPROVED BY THE ENGINEER OR AS INDICATED ON THE DRAWINGS.
11. SLOPE OF LATERALS SHALL CONFORM TO 1/4" PER FOOT MIN. FOR 4" PIPE AND 1/8" PER FOOT MIN. FOR 6" PIPE. MAXIMUM CLEAN OUT SPACING FOR 4" PIPE IS 75', 100' FOR 6" PIPE
12. ENTIRE SEWER LATERAL ASSEMBLY SHALL BE AIR TESTED CONCURRENTLY WITH SEWER MAIN.
13. INDIVIDUAL LATERALS SHALL BE CLEANED AND FLUSHED PRIOR TO FLUSHING SANITARY SEWER MAINS.
14. LATERAL SHALL NOT BE BACK-FILLED UNTIL INSPECTED BY THE PROJECT ENGINEER OR HIS REPRESENTATIVE.
15. WYE CONNECTIONS SHALL NOT BE USED TO TIE LATERALS INTO A MANHOLE, UNLESS OTHERWISE APPROVED BY ENGINEER.
16. IF BENDS ARE APPROVED BY THE PROJECT ENGINEER, STONE BEDDING IS REQUIRED TO BE INSTALLED FROM UNDISTURBED SOIL TO BOTTOM OF BEND.
17. PVC COMBINATION SHALL BE 2 PIECE TEE-WYE, GASKETED, SDR35, AS MANUFACTURED BY HARCO, GPK OR APPROVED EQUAL.







1. ALL VERTICAL AND HORIZONTAL SEPARATION SHALL BE IN ACCORDANCE WITH STATE REGULATIONS.
2. THE SKETCHES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
3. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY AT EACH CROSSING PRIOR TO CONSTRUCTION OF LATERAL TO INSURE PROPER CLEARANCES ARE MAINTAINED.
4. ALL PIPE BEND LOCATIONS AND MAX. NUMBER OF BENDS INSTALLED ON LATERALS SHALL BE APPROVED BY THE PROJECT COORDINATOR PRIOR TO INSTALLATION OF BEND OR EXTENDING THE LATERAL FROM THE MAIN.
5. ALL REQUIREMENTS FOR SEWER LATERAL NOTES AND DETAILS SHALL BE APPLICABLE.
6. REFER TO UNDERGROUND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION WHEN CROSSING UNDERGROUND ELECTRICAL FACILITIES.

SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS

NOT TO SCALE

Bissell Professional Group
Firm License # C-956
3512 North Croatan Highway
P.O. Box 1068
Kitty Hawk, North Carolina 27949
(252) 261-3266
FAX (252) 261-1760

BISSELL PROFESSIONAL GROUP
Engineers, Planners, Surveyors and Environmental Specialists

WASTEWATER COLLECTION SYSTEM

TYP. CONSTRUCTION DETAILS

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PROJECT: BAXTER CORNER

MOYOCK TOWNSHIP — CURRITUCK COUNTY — NORTH CAROLINA

COMMERCIAL SITE DEVELOPMENT PLANS

REVISIONS

NO.	DATE	DESCRIPTION	BY

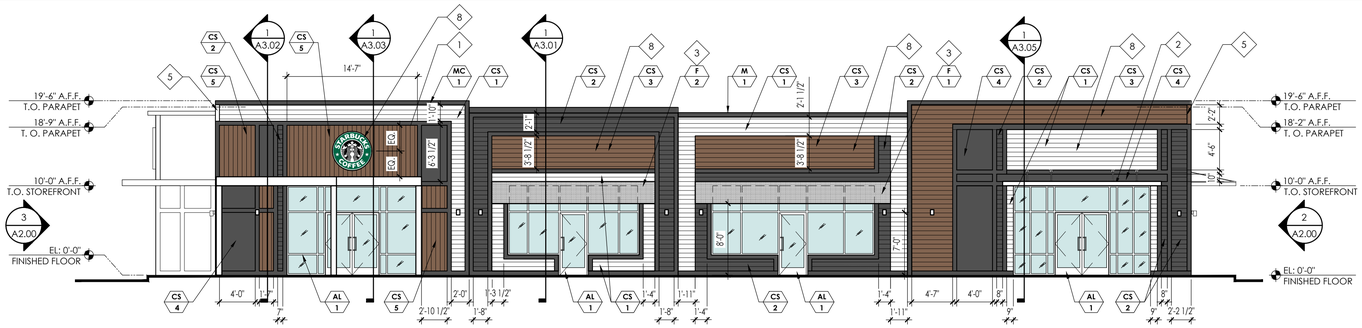
PRELIMINARY
DO NOT USE FOR CONSTRUCTION

DATE: 8/21/26	SCALE: AS NOTED
DESIGNED: BPG	CHECKED: MSB
DRAWN: DMK	APPROVED: BPG

SHEET: 16 OF 16

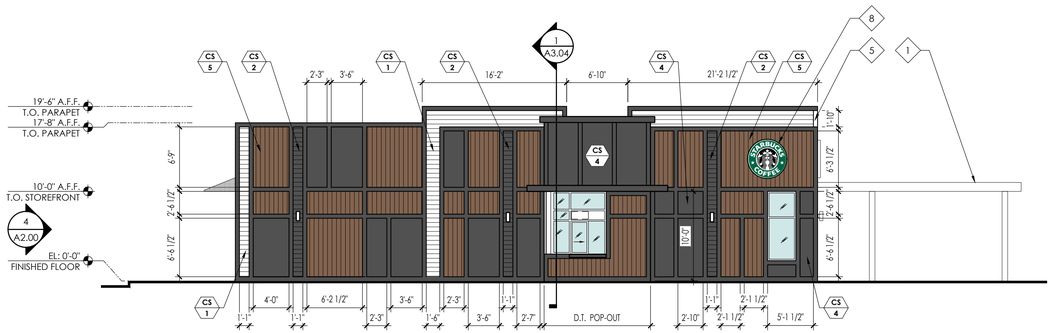
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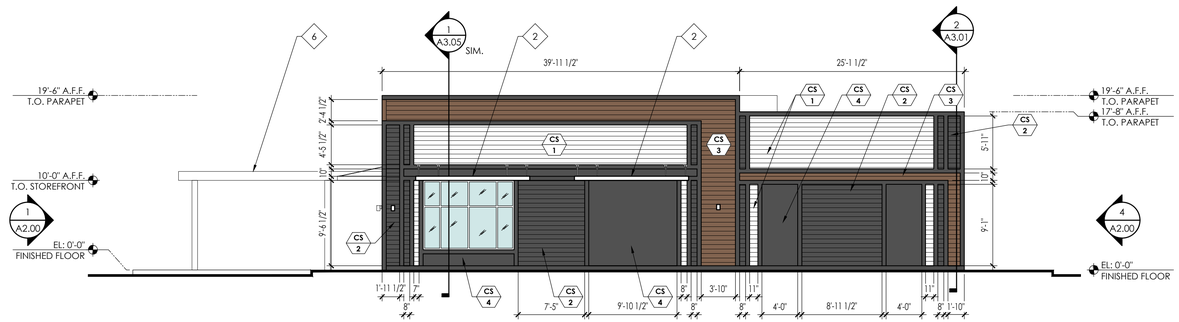
1 FRONT ELEVATION - PLAN SOUTH

Scale: 1/8" = 1'-0"



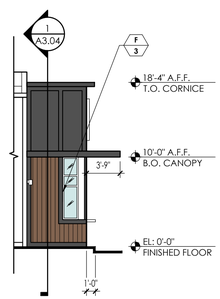
3 LEFT ELEVATION - PLAN WEST

Scale: 1/8" = 1'-0"



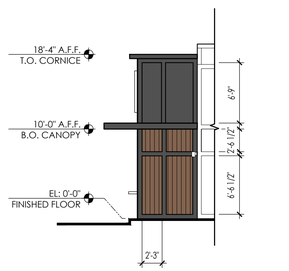
2 RIGHT ELEVATION - PLAN EAST

Scale: 1/8" = 1'-0"



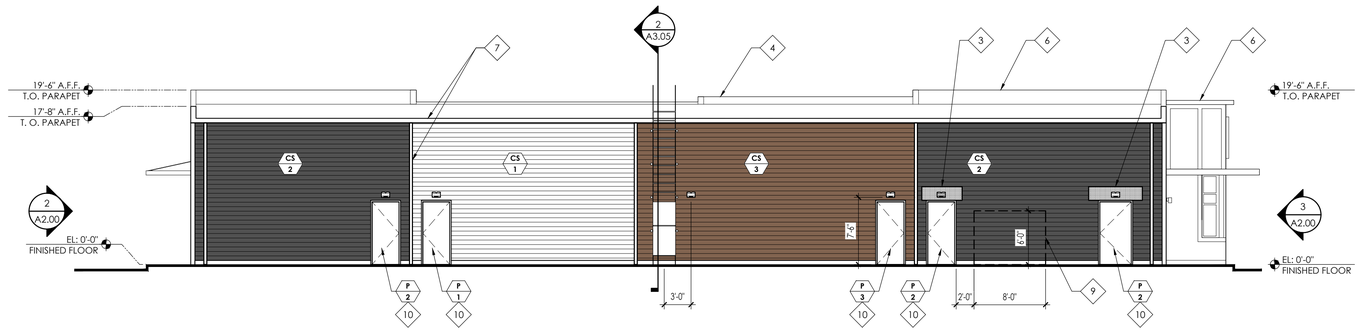
6 DRIVE-THRU - PLAN NORTH

Scale: 1/8" = 1'-0"



5 DRIVE-THRU - PLAN SOUTH

Scale: 1/8" = 1'-0"



4 REAR ELEVATION - PLAN NORTH

Scale: 1/8" = 1'-0"

ELEVATIONS GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET AND ACCESSIBILITY NOTES ON **A0.40-A0.43** FOR ADDITIONAL INFORMATION.
2. REFER TO FINISH SCHEDULE FOR ALL FINISH SPECIFICATIONS.
3. PARAPET RETURNS SHALL HAVE MATCHING FINISH, COLOR AND REVEALS TO THE FRONT OF THE PARAPET FROM WHICH THEY RETURN, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. ALL TRIM BOARDS ARE 5/4 X 6 WIDTHS, U.N.O.
5. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.
6. PROVIDE ¾" FIRE-TREATED PLYWOOD FOR SIGNAGE MOUNTING, TYP. CONFIRM FINAL LOCATIONS WITH OWNER.

KEYNOTES

1	NEW EXTERIOR PATIO CANOPY
2	METAL CANOPY
3	FABRIC AWNING
4	ROOF ACCESS LADDER
5	TRIM TO MATCH ADJACENT FIELD COLOR AT THIS LOCATION
6	LINE OF BUILDING ELEMENT BEYOND
7	GUTTER AND DOWNSPOUT
8	PROVIDE ELECTRICAL J-BOX AND BLOCKING FOR FUTURE TENANT'S SIGNAGE AT THIS LOCATION
9	EQUIPMENT SCREEN, SHOWN DASHED. SEE CIVIL DRAWINGS.
10	PAINT REAR DOORS TO MATCH ADJACENT WALL COLOR, TYP.

MATERIALS SCHEDULE

FINISH NO.	DESCRIPTION
CS 1	CEMENTITIOUS LAP SIDING - ARTIC WHITE
CS 2	CEMENTITIOUS LAP SIDING - CHARCOAL
CS 3	CEMENTITIOUS LAP SIDING - CAROLINA COLORTONES, CHESTNUT
CS 4	CEMENTITIOUS SMOOTH SIDING - CHARCOAL
CS 5	CEMENTITIOUS VERTICAL SIDING - CAROLINA COLORTONES, CHESTNUT
M 1	METAL COPING - CHARCOAL
P 1	PAINT - SHERWIN-WILLIAMS SW7006 "EXTRA WHITE"
P 2	PAINT - SHERWIN-WILLIAMS SW7067 "CITYSCAPE"
P 3	PAINT - SHERWIN-WILLIAMS SW6356 "COPPER MOUNTAIN"
P 4	PAINT - SHERWIN-WILLIAMS SW6993 "EDGE OF NIGHT"
F 1	AWNING FABRIC - BLUE
F 2	AWNING FABRIC - RED
F 3	AWNING FABRIC - GREEN
AL 1	ALUMINUM STOREFRONT - BLACK, KAWNEER 451T OR EQUAL

LEGEND

LOCATION OF GLAZING

Finley Design PA
7806 NC HWY 751
Suite 110
Durham, NC 27713
919-493-8200
FINLEYDESIGNARCH.COM

STARBUCKS 6-PACK

MOYOCK RETAIL
251 CARATOKE HWY. - NC 168
MOYOCK TOWNSHIP, NC

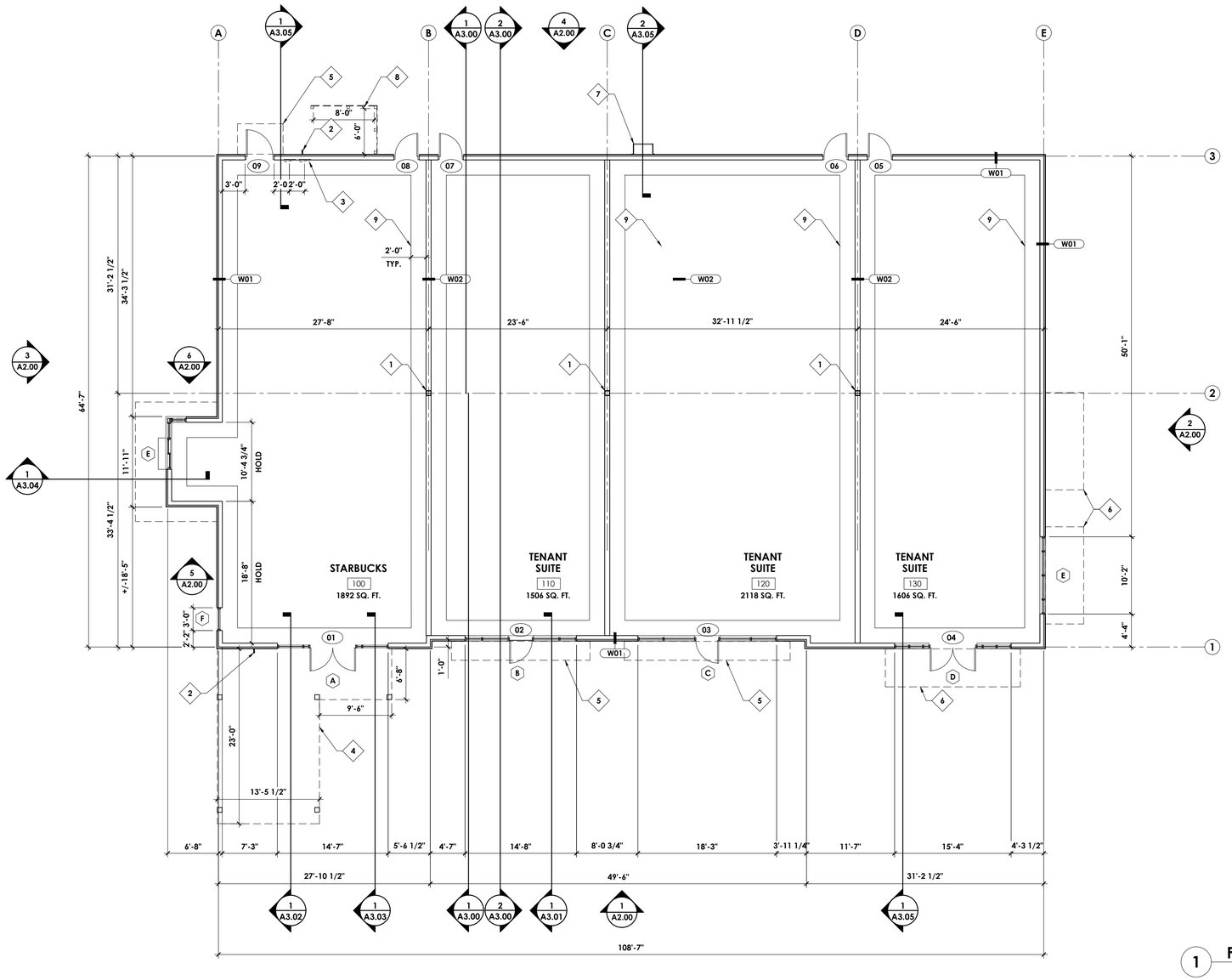
REVISIONS

PROJECT:	2146
DATE:	09/09/26
DRAWN BY:	SD
CHECKED BY:	SD/KF

EXTERIOR ELEVATIONS

A2.00

/USERS/STEVEND/LIBRARY/CLOUDSTORAGE/GOOGLEDRIVE-FINLEYDESIGN.GMAIL@GMAIL.COM/MY DRIVE/PROJECTS/2146 MOYOCK RETAIL/DRAWINGS/2146 ELEVATIONS-EXTERIOR.DWG



1 FLOOR PLAN

Scale: 1/8" = 1'-0"

TRUE NORTH

PLAN NORTH

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET AND ACCESSIBILITY NOTES ON **A0.40-A0.43** FOR ADDITIONAL INFORMATION.
2. ALL PARTITIONS SHALL BE TYPE 'W-01' UNLESS TAGGED OTHERWISE.
3. ALL PARTITIONS SHOWN "ALIGN" ARE TO BE SMOOTH & FLUSH WITH EXISTING OR ADJACENT CONSTRUCTION FOR ONE CONTINUOUS SURFACE. WHERE NEW PARTITIONS ARE TO ALIGN WITH EXISTING PARTITIONS, REMOVE EXISTING CORNER BEAD(S), ALIGN, TAPE, & SPACKLE WITH NEW PARTITION.
4. AFTER THE GENERAL CONTRACTOR HAS CHALKED THE SLAB FLOOR FOR PARTITION LAYOUTS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT THAT THE FLOOR HAS BEEN CHALKED. PARTITION LAYOUTS ARE TO BE APPROVED BEFORE PLACING ANY STUDS OR LAYING ANY FLOOR TRACKS.
5. GENERAL CONTRACTOR SHALL ENSURE THAT ALL WALLS & STUDS ARE TIED INTO STRUCTURAL MEMBERS AND/OR SLAB ABOVE AS REQUIRED TO BE SAFE & SECURE. SUPPORT LATERALLY & SEISMICALLY AS REQUIRED BY APPLICABLE BUILDING CODES.
6. ALL NEW GYPSUM BOARD PARTITIONS SHALL BE TAPED, SANDED SMOOTH, & PRIMED OR SEALED FOR THE FINISH THEY ARE INTENDED TO RECEIVE. PROVIDE LEVEL #4 FINISH, PRIMER, AND TWO COATS PAINT (OR AS NECESSARY FOR A UNIFORM FINISH), TYPICAL U.N.O., AT ALL AREAS SCHEDULED TO RECEIVE FLAT OR EGGSHELL/SATIN FINISHES. ELECTRICAL, MECHANICAL, AND TEL/DATA ROOMS NOT INDICATED TO BE PAINTED GYPSUM BOARD SHALL BE TAPED AND SANDED SMOOTH TO LEVEL #2 FINISH. PROVIDE LEVEL #5 FINISH WHERE SPECIALTY-APPLIED FINISHES/MATERIAL DICTATE. REFERENCE FINISH PLANS. REFER TO FINISH SPECIFICATIONS.
7. ANY FIREPROOFING MATERIALS REMOVED FOR SECURING NEW PARTITION TO STRUCTURE ABOVE SHALL BE REPLACED WITH NEW MATERIALS BY THE SAME FIREPROOFING MANUFACTURER OF THICKNESS REQUIRED IN ORDER TO PRESERVE THE FIRE RATINGS OF STRUCTURAL STEEL & METAL DECK.
8. BLOCKING OR BRACING SHALL BE PROVIDED IN PARTITIONS AS REQUIRED FOR WALL ATTACHED ITEMS. PROVIDE 6" HIGH, 16 GA. BRACING FOR UPPER CABINETS, SHELVING, MARKER BOARDS, CHAIR RAILS, GRAB BARS, SHOWER SEATS, H&RAILS, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH BUCKS & MISCELLANEOUS BLOCKING SHALL BE FIRE RETARDANT TREATED IN ACCORDANCE WITH FIRE CODES.
9. GYPSUM BOARD SHALL BE ATTACHED TO METAL STUDS W/ TYPE 'S' DRYWALL SCREWS AT 6" O.C. AT EDGES & 12" O.C. AT FIELD. STAGGER JOINTS OF 2ND LAYER OF GYPSUM BOARD OVER 1ST LAYER AT ALL 2-HOUR RATED ASSEMBLIES.
10. CONTRACTOR TO PROVIDE PLASTIC LAMINATE UPPER AND LOWER CABINETS WHERE INDICATED, U.N.O. REFER TO ELEVATION(S).
11. REFER TO ELEVATIONS FOR ALL MILLWORK DESIGN.
12. CONTRACTOR TO FURR/FINISH OUT (MINIMUM DIMENSIONS) ALL BASE BUILDING ELEMENTS AND EXTERIOR WALLS THAT ARE IN SHELL CONDITIONS. VERIFY FURR OUT REQUIREMENTS AT ALL ELECTRICAL DEVICES AND PLUMBING LINES, WHERE OCCURS. FURRING AT COLUMNS, ROOF DRAINS, PIPES AND SIMILAR ELEMENTS TO BE HELD AS TIGHT TO OBSTRUCTION AS POSSIBLE, U.N.O.
13. WHERE NEW WORK ABUTS EXISTING, GENERAL CONTRACTOR AND ALL AFFECTED SUBCONTRACTORS SHALL STRIVE TO CREATE UNNOTICEABLE SURFACES/PLANE TRANSITIONS.
14. DIMENSIONS ARE FROM INTERIOR FACE OF WALL TO INTERIOR FACE OF WALL/MILLWORK. VERIFY ANY DISCREPANCIES IN THE FIELD WITH THE ARCHITECT PRIOR TO BUILDING. ALL DOORS SHOWN BUT NOT TAGGED WITH A DOOR NUMBER OR KEYNOTE ARE NOT INCLUDED IN THE SCOPE OF WORK.
15. SEE ELEVATION SHEET(S) FOR ALL GLAZING CONDITIONS.
16. CONTRACTOR TO PROVIDE EQUIPMENT AND APPLIANCES AS SPECIFIED ON EQUIPMENT SCHEDULE. REFERENCE POWER/SIGNAL/FURNITURE PLAN FOR EQUIPMENT SCHEDULE.

WALL LEGEND

W01	2x6 WOOD STUDS AT 16" O.C. W/ R-19 CAVITY INSULATION WITH FIRE BARRIER ABOVE. 5/8" EXTERIOR SHEATHING, APPLIED AIR/WATER BARRIER, 2" RIGID INSULATION, AND CEMENTITIOUS SIDING.
W02	FIRE WALL: 2-HR. RATED. 2x6 WOOD STUDS AT 16" O.C. W/ TWO LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE TO ROOF DECK ABOVE AND SOUND BATT INSULATION. SEE CODE SUMMARY FOR MORE INFORMATION.

KEYNOTES

1. CENTER NEW DEMISING WALL ON STRUCTURAL COLUMN
2. EXTERIOR HOSE BIB
3. LOCATION OF TENANT'S ELECTRICAL PANELS
4. NEW PATIO CANOPY
5. NEW FABRIC AWNING ABOVE
6. NEW METAL CANOPY ABOVE
7. LOCATION OF ROOF ACCESS LADDER
8. LOCATION OF EQUIPMENT SCREEN - SEE CIVIL PLANS
9. LINE INDICATES EDGE OF RIBBON SLAB

LEGEND

- – – INDICATES LINE OF SOFFIT OR ELEMENT ABOVE
- FEC — FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - POTTER ROEMER "ALTA SERIES" #7008-DV-VB, COLOR: WHITE, W/ ROLLED RADIUS EDGE AND CAM LATCH. PROVIDE #3005 5 LB. EXTINGUISHER (2A:10B:C TYP., EXCEPT 4A:20B:C OUTSIDE EACH MECHANICAL, ELECTRICAL, OR BOILER ROOM, LOCATE AS REQUIRED TO COMPLY WITH 75' MAX. TRAVEL DISTANCE & SERVING EVERY 11,250 SF), OR APPROVED EQUAL.

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STARBUCKS 6-PACK

MOYOCK RETAIL

251 CARATOKE HWY. - NC 168
MOYOCK TOWNSHIP, NC

REVISIONS

PROJECT:	2146
DATE:	10/14/26
DRAWN BY:	SD
CHECKED BY:	SD/XF

FLOOR PLAN

A1.10

/USERS/STEVEND/LIBRARY/CLOUDSTORAGE/GOOGLEDRIVE-FINLEYDESIGN.GMAIL@GMAIL.COM/MY DRIVE/PROJECTS/2146 MOYOCK RETAIL/DRAWINGS/2146 FLOOR PLAN.DWG