

Pender County Planning and Community Development

Planning Division

805 S. Walker Street
PO Box 1519
Burgaw, NC 28425



Phone: 910-259-1202
Fax: 910-259-1295
www.pendercountync.gov

Major Site Development Application Information Scotts Hill Circle K Major Site Development Plan

Case Number: SDP-2025-526

Application Type: Major Site Development Plan

Applicant: Mark Kestnbaum

Owner: Pope Properties on 17 LLC

Location: The subject property is located on the Northeast corner of US Hwy 17 and Scotts Hill Loop Rd.

Property ID #(s): 3271-41-0365-0000

Description: Major Site Development Plan requesting development of a 5,200 sq. ft. Circle K gas station and convenience store.

Total Area of Project: 1.51 acres

Current Zoning: GB. General Business

Application Materials

Application
Site Plan

APPLICATION

Pender County Planning and Community Development

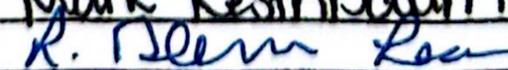
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MAJOR AND MINOR SITE DEVELOPMENT APPLICATION

SECTION 1: GENERAL INFORMATION			
Applicant's Name:	Circle K Stores, Inc.	Property Owner's Name:	Pope Properties on 17 LLC
Applicant's Address:	2626 Glenwood Ave, Suite 550	Property Owner's Address:	4701 Wrightsville Ave. Suite 1a
City, State, & Zip	Raleigh, NC 27608	City, State, & Zip	Wilmington, NC 28403
Phone Number:	(919) 774-6700	Phone Number:	
Email Address:	mkestnba@circlek.com	Email Address:	
Legal relationship of applicant to landowner:			
SECTION 2: PROJECT INFORMATION			
PIN (Property Id #):	3271-41-0365-0000	Total property acreage:	1.92
Zoning:	GB - General Business	Acreage to be disturbed:	1.60
Water Provider:	Pender County Utilites	Wastewater Provider:	Pender County Utilites
Directions to Site:	HWY 17 / Scotts Hill Loop Rd	Township:	Topsail
Road Type:	Public/ <input checked="" type="checkbox"/> Private/ <input type="checkbox"/> Both		
Sq Ft of Building: 5,200	Building Height: 22'-6"		
Setbacks	Front: 25'	Side: 10'	Rear: 10'
NAICS Code/Use:	457110 - Gasoline Station with Convenience Store		
Business Name:	Circle K		
Describe activities to be undertaken on project site:	Commercial retail store with gas pumps and sales		

SECTION 5: SIGNATURES			
Applicant's Signature		Date:	9-29-25
Applicant's Name Printed	Mark Kestnbaum - Auth Rep	Date:	9-29-25
Owner's Signature		Date:	10/1/25
Owner's Name Printed	R. GLENN LEA	Date:	10/1/25

Specific requirements can be found in Section 6.3 of the Pender County Unified Development Ordinance

Major Site Development Plan Specific Requirements

1. Major Site Development Application Submittal

- Site Plan (per Section 6.3)
 - Scale
 - North Arrow
 - All property information (zoning, setbacks, PIN #)
 - Adjacent property info (owner, zoning, use, PIN #)
 - References to any previously approved plans
 - Utility providers
 - All existing and proposed structures
 - Buffering (Section 8.2.6) & Landscaping (8.3)
 - Parking (Section 7.10)
 - Lighting
 - Cross Access Connections (Section 7.4.4)
 - AM/PM Peak Hour Trip Calculations (TIA required with 100 AM/PM trips or >1,000 trips per day)
 - Soil Erosion and Sedimentation Control Plan
 - Location of all environmental features
 - Stormwater management features
 - Proposed accesses, easements, streets, and sidewalks
- Permits received

2. TRC Meeting

- Site Plan Review
- Agency comments/requirements

3. Post-TRC Meeting

- Submit site plan with revisions
- Receive agency approvals
- Forward all agency approvals to Planning Staff.

4. Approval of Site Plan

- All TRC comments and agency requirements addressed
- Zoning approval allows for building permit process to begin
- Apply for building permits

5. Final Zoning

- Site Visit to check the following:
 - Landscaping
 - Buffering
 - Parking

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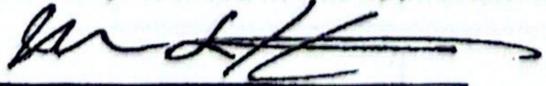
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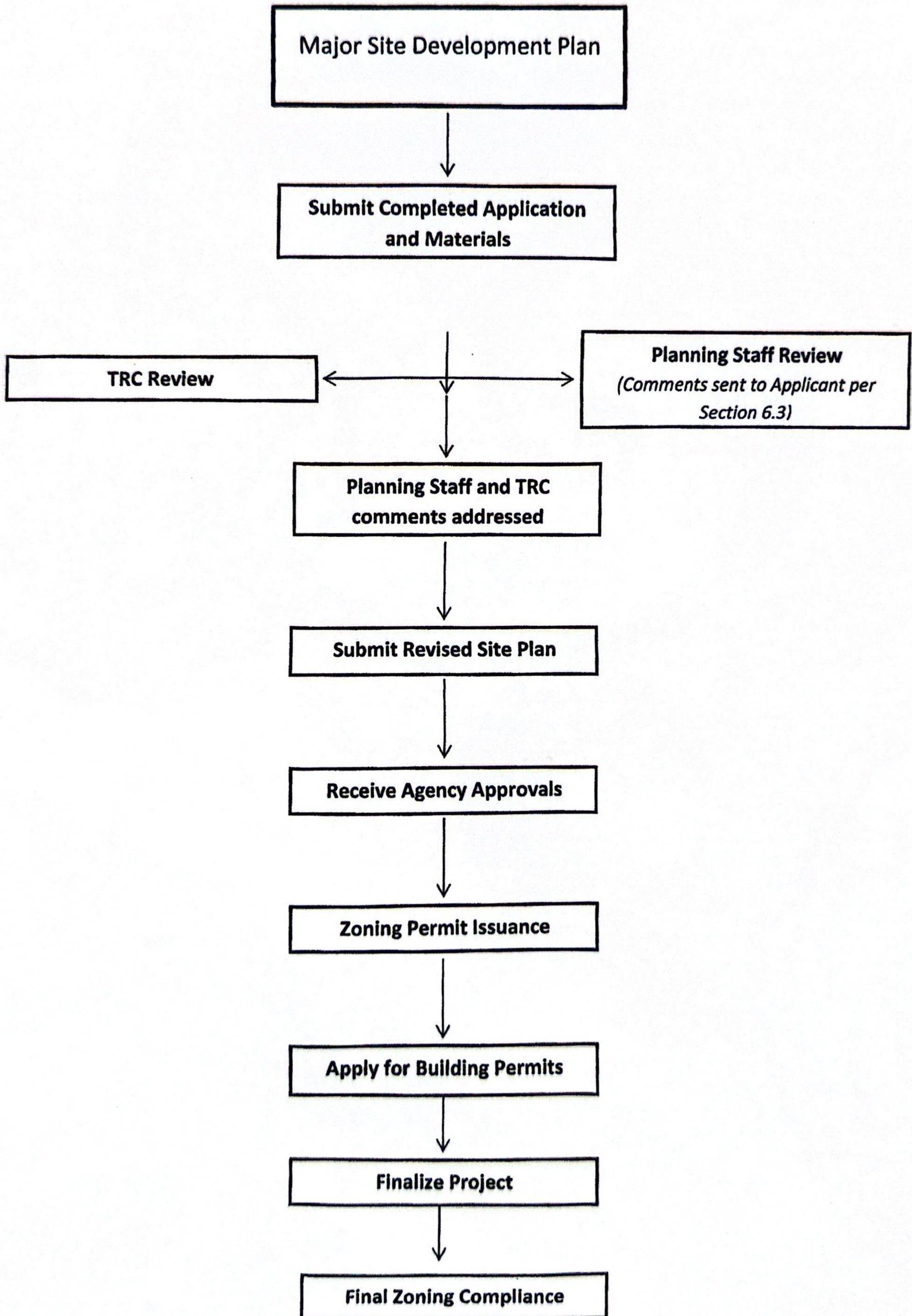
Major Site Development Plan Submission

Applications will be considered for the Technical Review Committee hearing and reviewed by Staff only when deemed complete. The application will be regarded as incomplete until the following items are received by the Planning and Community Development Staff.

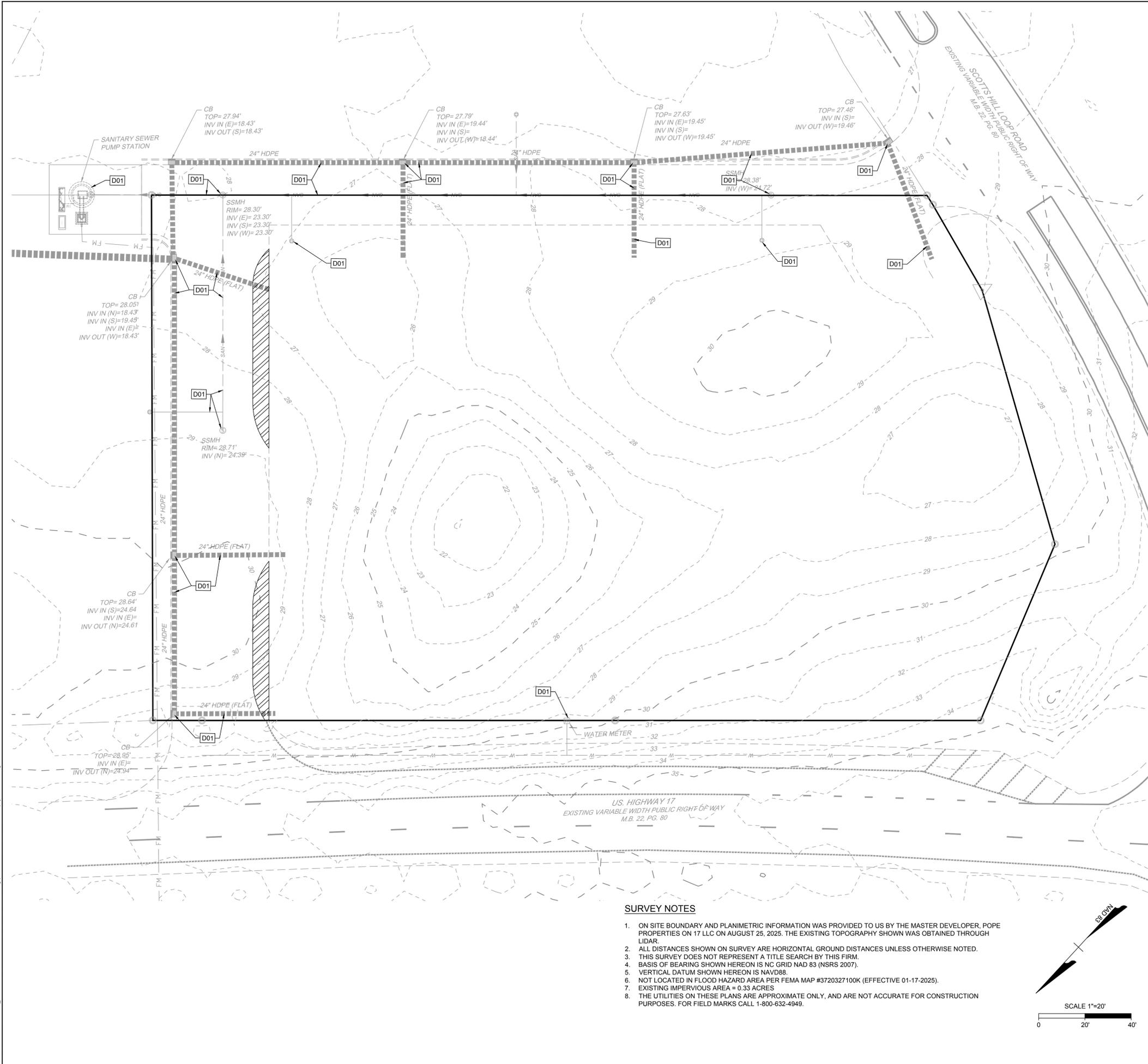
1. **Signed Application**
2. **Payment**
Invoice for \$250 application fee and initial stormwater review fee of \$400 will be generated upon receipt of application for online payment. **Do not include check with application.** Subsequent stormwater reviews will be charged at \$200 per review at time of resubmission.
3. **Paper Plan Sets**
One (1) 24 x 36, Two (2) 11 x 17
4. **Digital Submission**
For all documents submitted in paper copy, provide a digital version. These may be emailed or uploaded to a share folder. **Physical media such as CD or USB drives will not be accepted.**
5. **List of Property Owners Within 500'**
A numbered list of names and addresses, as obtained from the county tax listings and tax abstract, **including the applicant, the owner, and owners of all properties** located within 500-feet of the perimeter of the project bounds as obtained from the county tax listings and tax abstract. Instructions to obtain list of addresses available on Pender County's website on the Planning and Community Development page.
6. **500' Buffer Property Envelopes**
The applicant shall provide a set of business envelopes **addressed to the applicant, the owner, and each of the owners of all properties** located within 500-feet of the perimeter of the project bounds and accompanied with first class postage adhered. Do not include return address or company branding on envelopes.
7. **Permits**
Include any permits issued on the project including but not limited to: environmental, traffic, utility, or site specific conditions.
8. **Site Plan Requirements**
A prepared site plan in accordance with the Unified Development Ordinance standards Section 6.3, Pender County Collector Street Plan, Pender County Transportation Plan, other approved State of Federal Transportation Improvement Plan, or any other adopted plan in Pender County.
(See Major Site Development Checklist)

I certify that all information presented in this application is accurate to the best of my knowledge.

Signature of Applicant  Date 9/29/25
Printed Name Mark Kestnbaum
Authorized Representative

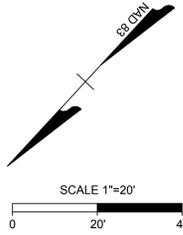


SITE PLAN



SURVEY NOTES

- ON SITE BOUNDARY AND PLANIMETRIC INFORMATION WAS PROVIDED TO US BY THE MASTER DEVELOPER, POPE PROPERTIES ON 17 LLC ON AUGUST 25, 2025. THE EXISTING TOPOGRAPHY SHOWN WAS OBTAINED THROUGH LIDAR.
- ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- THIS SURVEY DOES NOT REPRESENT A TITLE SEARCH BY THIS FIRM.
- BASIS OF BEARING SHOWN HEREON IS NC GRID NAD 83 (NSRS 2007).
- VERTICAL DATUM SHOWN HEREON IS NAVD88.
- NOT LOCATED IN FLOOD HAZARD AREA PER FEMA MAP #3720327100K (EFFECTIVE 01-17-2025).
- EXISTING IMPERVIOUS AREA = 0.33 ACRES
- THE UTILITIES ON THESE PLANS ARE APPROXIMATE ONLY, AND ARE NOT ACCURATE FOR CONSTRUCTION PURPOSES. FOR FIELD MARKS CALL 1-800-632-4949.



DEMOLITION KEYNOTES	
NUMBER	DESCRIPTION
D01	EXISTING FEATURE TO REMAIN.
D02	REMOVE EXISTING FEATURE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CONTRACTOR TO OBTAIN, REFERENCE, AND UTILIZE ALL AVAILABLE ENVIRONMENTAL REPORTS (PHASE 1 ESA, ASBESTOS, ETC.) FROM DEVELOPER.
D03	RELOCATE AND/OR MODIFY EXISTING FEATURE TO REMAIN IN SERVICE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CONTRACTOR TO COORDINATE AS NEEDED WITH LOCAL MUNICIPALITY, INSPECTORS, AND/OR UTILITY COMPANIES.
D04	EXISTING WETLANDS TO BE REMOVED ONLY AFTER IMPACT IS FULLY PERMITTED.
	ASPHALT REMOVAL AREA

DEMOLITION NOTES

- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE. CONTRACTOR TO OBTAIN, REFERENCE, AND UTILIZE ALL AVAILABLE ENVIRONMENTAL REPORTS (PHASE 1 ESA, ASBESTOS, ETC.) FROM DEVELOPER.
- ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- REMOVE/DEMOLISH/ABANDON AFTER EROSION CONTROL MEASURES ARE IN PLACE AN APPROVAL OF THE INSPECTOR. REFER TO EROSION CONTROL PLAN.
- REMOVE TOPSOIL AND STOCKPILE APPROPRIATELY ON-SITE. ON-SITE TEMPORARY STOCKPILES SHALL BE LOCATED WITHIN CONSTRUCTION LIMITS. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED BY THE OWNER OR OTHERS EXCEPT WHEN PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE ACCEPTABLE TEMPORARY UTILITY SERVICES. (1) NOTIFY OWNER NOT LESS THAN ONE WEEK IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS. (2) DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT RECEIVING OWNER WRITTEN PERMISSION. (3) COORDINATE ALL UTILITY RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR DETAIL.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGE OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
- SUBSURFACE FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UTILITY LOCATIONS AND DEPTHS.
- THE CONTRACTOR SHALL USE NC ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES.
- CONTRACTOR TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. REPAIR AND REPLACE ANY DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING OR ABANDONING ALL EXISTING UTILITIES AND STRUCTURES REQUIRED TO COMPLETE SITE CONSTRUCTION, EITHER ONSITE OR IN PUBLIC ROW, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- WATER AND SEWER ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH PENDER COUNTY STANDARDS INCLUDING DISCONNECT FROM THE MAIN AND REMOVAL OF SERVICES FROM THE RIGHT-OF-WAY.
- ANY EXISTING UNIDENTIFIED SEPTIC SYSTEMS AND WELLS FOUND ON SITE SHALL BE REMOVED OR ABANDONED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AT THE CHARGE TO THE OWNER.
- VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- CONTRACTOR SHALL COORDINATE ALL CONNECTIONS, RELOCATION AND DEMOLITION WORK WITH THE APPROPRIATE COMPANY OR JURISDICTION HAVING AUTHORITY AND SHALL OBTAIN ANY PERMITS AS REQUIRED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERLY WITH THE PROPOSED FINISHED GRADES (WHETHER OR NOT INDICATED TO BE MODIFIED).
- GENERAL CONTRACTOR TO COORDINATE ALL PEDESTRIAN ACCESS PATHS, LOCATIONS, LIGHTING ETC. WITH THE DEVELOPER.
- CONTRACTOR SHALL NOTIFY APPROPRIATE DEPARTMENTS PRIOR TO BEGINNING ANY WORK WITHIN PUBLIC RIGHT-OF-WAY.

LEGEND		
IPF - IRON PIPE FOUND	⊙ BOLLARD	⊙ SIGN
IRF - IRON ROD FOUND	⊙ MH DRAINAGE	⊙ FO FIBER OPTIC MARKER
IPS - IRON PIPE SET	⊙ MH SANITARY	⊙ SPRINKLER HEAD
PT - CALCULATED POINT	⊙ MH ELECTRIC	⊙ SPRINKLER VALVE
CM - CONCRETE MONUMENT	⊙ MH TELEPHONE	⊙ GAS METER
⊙ FIRE HYDRANT	⊙ MH WATER	⊙ GAS VALVE
⊙ ELECTRIC BOX	⊙ SPRINKLER BOX	⊙ GROUND LAMP
⊙ TELEPHONE PEDESTAL	⊙ ELECTRIC METER	⊙ BOREHOLE
⊙ CABLE TV PEDESTAL	⊙ CLEAN OUT	⊙ AC UNIT
⊙ POWER POLE < GUY	⊙ WATER METER	⊙ TV TELEPHONE VAULT
⊙ LIGHT POLE	⊙ WATER VALVE	⊙ MAILBOX
⊙ YARD LIGHT	⊙ ROOF DRAIN	— DEED LINE
⊙ WELL	— LINE NOT SURVEYED	— STORM LINE
R/W - RIGHT-OF-WAY	— SANITARY LINE	— FENCE
P/L - PROPERTY LINE	— OHP OVERHEAD POWER LINE	— PAINTED GAS LINE
C/L - CENTERLINE	— UGP UNPAINTED GAS LINE	— PAINTED POWER LINE
NTS - NOT TO SCALE	— STM PAINTED STORM LINE	— UGT UNPAINTED TELEPHONE LINE
GV - GAS VALVE	— W PAINTED WATER LINE	— EDGE OF UNDERBRUSH
CB - CATCH BASIN	— RCP REINFORCED CONCRETE PIPE	— CMP CORRUGATED METAL PIPE
GI - GRATE INLET	— VCP VITRIFIED CLAY PIPE	— DIP DUCTILE IRON PIPE
YI - YARD INLET	— HDPE HIGH DENSITY POLYETHYLENE PIPE	— HVAC HEATING, VENTILATION AND AIR CONDITIONING
EP - EDGE OF PAVING	— TBC TOP BACK OF CURB	
DB - DEED BOOK	— PB PLAT BOOK	
PG - PAGE	— SF SQUARE FEET	
FP - FLAG POLE		

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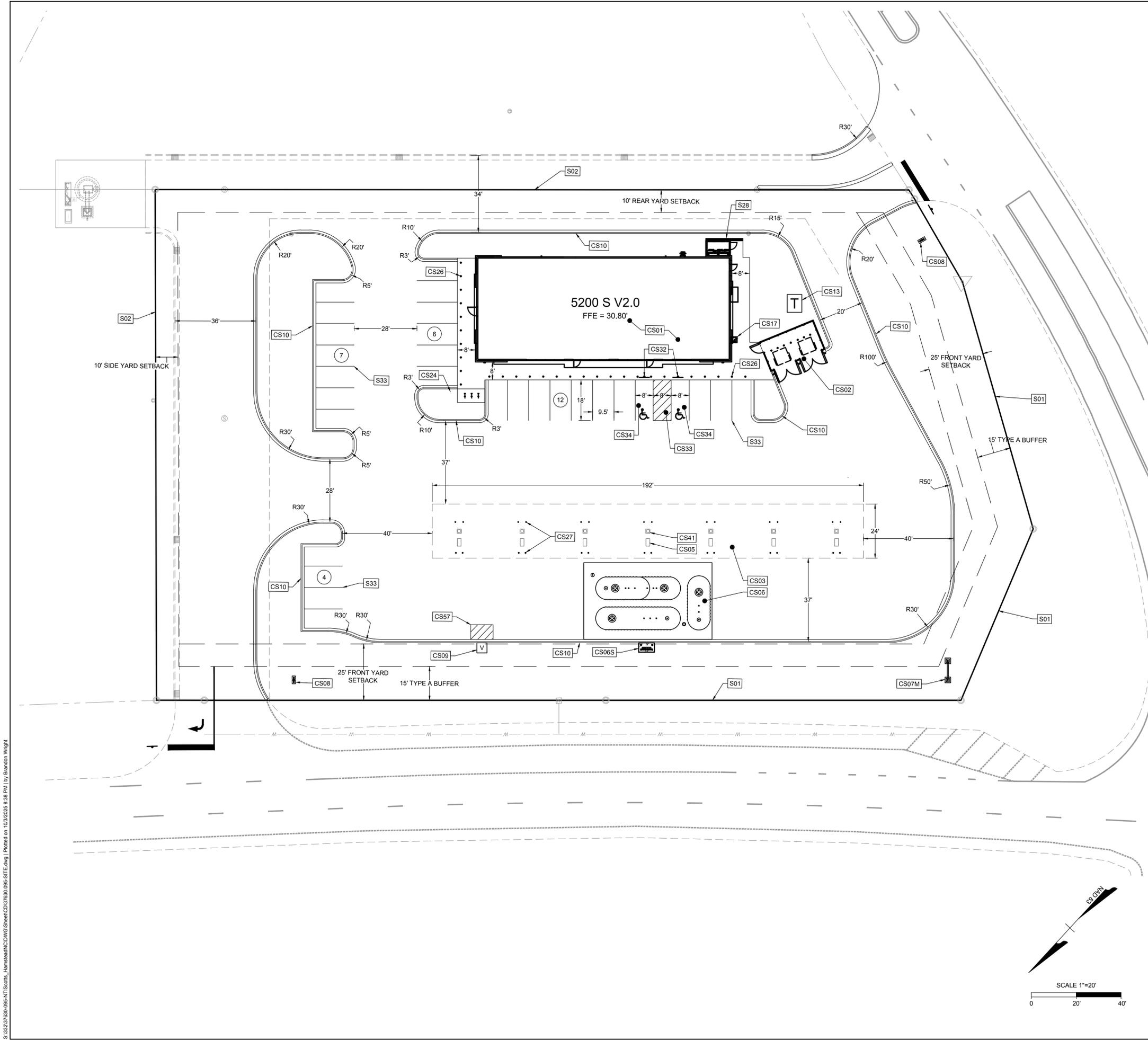
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

CIRCLE K - NTI HWY 17 & SCOTTS HILL LOOP ROAD
WILMINGTON - PENDER COUNTY - NORTH CAROLINA

EXISTING CONDITION AND DEMOLITION PLAN

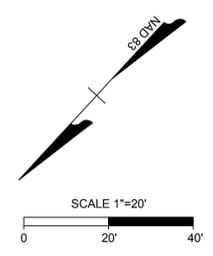
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SITE LAYOUT KEYNOTES	
NUMBER	DESCRIPTION
S01	RIGHT-OF-WAY (TYP.)
S02	PROPERTY BOUNDARY (TYP.)
S03	RIGHT-OF-WAY DEDICATION, VARIABLE WIDTH
S08	FLUSH CURB
S09	SIDEWALK RAMP @ 8.33% MAXIMUM (TYPICAL - PER ADA AND LOCAL CODES)
S10	DETECTABLE WARNINGS PER ADA REQUIREMENTS
S28	RETAINING WALL WITH 42" MINIMUM SAFETY RAILING AT ALL AREAS TALLER THAN 30" (DESIGN BY OTHERS)
S29	4" THICK CONCRETE SIDEWALK; REFER TO PLANS FOR WIDTH DIMENSIONS
S30	RIGHT IN / RIGHT OUT DRIVEWAY
S32	EXISTING PAVEMENT TO REMAIN
S33	PARKING STALL STRIPING PER LOCAL CODES (TYP.)
S43	*STOP* SIGN; R1-1 (MUTCD)
S44	*RIGHT TURN ONLY* SIGN; R3-5 (MUTCD)
S45	*DO NOT ENTER* SIGN; R5-1 (MUTCD)
S47	PEDESTRIAN CROSSWALK STRIPING (PER LOCAL CODES)
S48	LIGHT POLE BASE (TYPICAL - REFER TO LIGHTING AND ARCHITECTURAL PLANS)
S49	TURN LANE STRIPING PER NCDOT STD DETAIL 1205.05
CS01	C-STORE BUILDING, REFER TO ARCHITECTURAL AND MEP PLANS BY OTHERS.
CS02	TRASH ENCLOSURE AND BOLLARDS; REFER TO ARCHITECTURAL PLANS BY OTHERS.
CS03	GAS CANOPY; REFER TO CANOPY PLANS BY OTHERS.
CS05	MPD; REFER TO DETAIL CK-200 (TYP.)
CS06	UST TANKS AND PAD; REFER TO FUELING PLANS BY OTHERS FOR PAD SIZING AND PAVING DESIGN.
CS06S	UST VENT STACK; REFER TO FUELING PLANS BY OTHERS.
CS07M	MONUMENT SIGN; FURNISHED AND INSTALLED BY OTHERS. VERIFY EXACT LOCATION AND LOCATION BEFORE ROUGH-IN. PERMITTED BY OTHERS.
CS07P	PYLON SIGN; FURNISHED AND INSTALLED BY OTHERS. VERIFY EXACT LOCATION AND DESIGN BEFORE ROUGH-IN. PERMITTED BY OTHERS.
CS08	DIRECTIONAL SIGNAGE
CS09	AIR MACHINE; PROVIDE CONCRETE PAD. REFER TO DETAIL CK-160 FOR PAD DIMENSIONS.
CS10	18" CURB & GUTTER; REFER TO DETAIL CK-120 AND CK-125.
CS11	30" WIDE CONCRETE COLOR BAND "ZERO REVEAL" FLUSH CURB; REFER TO DETAIL CK-197.
CS12	LIGHT POLE BASE (TYPICAL - PER LIGHTING PLAN); REFER TO DETAIL CK-190 AND ARCHITECTURAL PLANS BY OTHERS.
CS13	ELECTRIC TRANSFORMER PAD; GC TO COORDINATE LOCATION WITH LOCAL PROVIDER. LOCAL PROVIDER CAN SUPERSEDE THE PROPOSED TRANSFORMER PAD LOCATION.
CS16A	ROOF LADDER PAD; 4'x6' STANDARD DUTY CONCRETE
CS17	CO2 TANK AND STORAGE CABINET; 4'x4' STANDARD DUTY CONCRETE PAD IF LOCATED IN LANDSCAPE AREA.
CS18	BUILDING SERVICE ENTRANCE SECTION; 3.5'x7' STANDARD DUTY CONCRETE PAD IF LOCATED IN LANDSCAPE AREA.
CS24	BICYCLE RACK; REFER TO DETAIL CK-198 OR LOCAL REQUIREMENT.
CS25	FLAG POLE; REFER TO CONSTRUCTION SPECIFICATIONS AND FOOTING DESIGN BY STRUCTURAL ENGINEER. REFER TO DETAIL CK-315.
CS26	4" BOLLARD AND COVER, REFER TO DETAIL CK-180 AND CK-197 (TYP.). CENTER ON ADA STRIPING. 6" ON CENTER SPACING. REFER TO PLAN FOR COUNT.
CS27	6" BOLLARD AND COVER, REFER TO DETAIL CK-180 AND FUELING PLANS FOR LOCATION AND COUNT (TYP.)
CS31	ACCESSIBLE PARKING SIGN (TYPICAL - PER ADA AND LOCAL CODES) R7-8A (MUTCD) MOUNTED IN A BOLLARD; REFER TO DETAIL CK-185.
CS32	VAN ACCESSIBLE PARKING SIGN (TYPICAL - PER ADA AND LOCAL REQUIREMENTS) R7-8A (MUTCD) MOUNTED IN A BOLLARD; REFER TO DETAIL CK-185.
CS33	ADA ACCESSIBLE AISLE AND STRIPING, PER ADA AND LOCAL CODES; REFER TO DETAIL CK-105.
CS34	ADA ACCESSIBLE PARKING SPACE AND SYMBOL STRIPING; REFER TO DETAIL CK-105 AND CK-110. PER ADA AND LOCAL CODES.
CS35	DIRECTIONAL TRAFFIC ARROW (PER LOCAL CODES); REFER TO DETAIL CK-115 (TYP.)
CS41	CANOPY COLUMN (TYP.); REFER TO CANOPY PLANS BY OTHERS.
CS49	10'x20' VEHICULAR STACKING SPACE (TYP.)
CS50	ADA TRAVEL PATH STRIPING; REFER TO DETAIL CK-335.
CS55	30"x30" R1-1 "STOP" SIGN AND 24" WIDE "STOP" BAR.
CS57	AIR MACHINE PAVEMENT MARKING; REFER TO DETAIL CK-165.

- SITE LAYOUT NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENDER COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS ARE TO FACE OF CURB; EDGE OF PAVING, BUILDING WALL FACE OR PROPERTY LINE UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION.
 - AT LEAST 3-12 BUSINESS DAYS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED.
 - PARKING SPACES ARE 9.5' WIDE X 18' LONG MINIMUM EXCEPT HANDICAP SPACES WHICH ARE 8.0' WIDE MINIMUM WITH 8.0' VAN ACCESS AND 5.0' STANDARD ACCESS AISLES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF THE BUILDING.
 - CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DIMENSIONAL CONFLICTS PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ALL CURB AND GUTTER ONSITE SHALL BE 24" WIDE. ALL CURB AND GUTTER IN THE PUBLIC RIGHT OF WAY SHALL BE 30" WIDE.
 - TRANSITION FROM 30" TO 24" CURB AND GUTTER IS TO OCCUR ON-SITE. THIS TRANSITION SHALL BE 10' LONG IMMEDIATELY ADJACENT TO PUBLIC RIGHT OF WAY OR AS DIRECTED IN THE PLAN.
 - ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PENDER COUNTY OR NCDOT STANDARDS AND SPECIFICATIONS.
 - NO SIGHT OBSTRUCTING OR PARTIALLY OBSTRUCTING WALL, FENCE, FOLIAGE, BERRING, PARKED VEHICLES OR SIGN BETWEEN THE HEIGHTS OF TWENTY-FOUR (24) INCHES AND EIGHT (8) FEET ABOVE THE CURB LINE ELEVATION, OR THE NEAREST TRAVELED WAY IF NO CURBING EXISTS, SHALL BE PLACED WITHIN A SIGHT TRIANGLE OF A PUBLIC STREET, PRIVATE STREET OR DRIVEWAY CONTAINED EITHER ON THE PROPERTY OR ON AN ADJOINING PROPERTY.



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SCALE	AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

CIRCLE K - NTI HWY 17 & SCOTTS HILL LOOP ROAD
WILMINGTON - PENDER COUNTY - NORTH CAROLINA

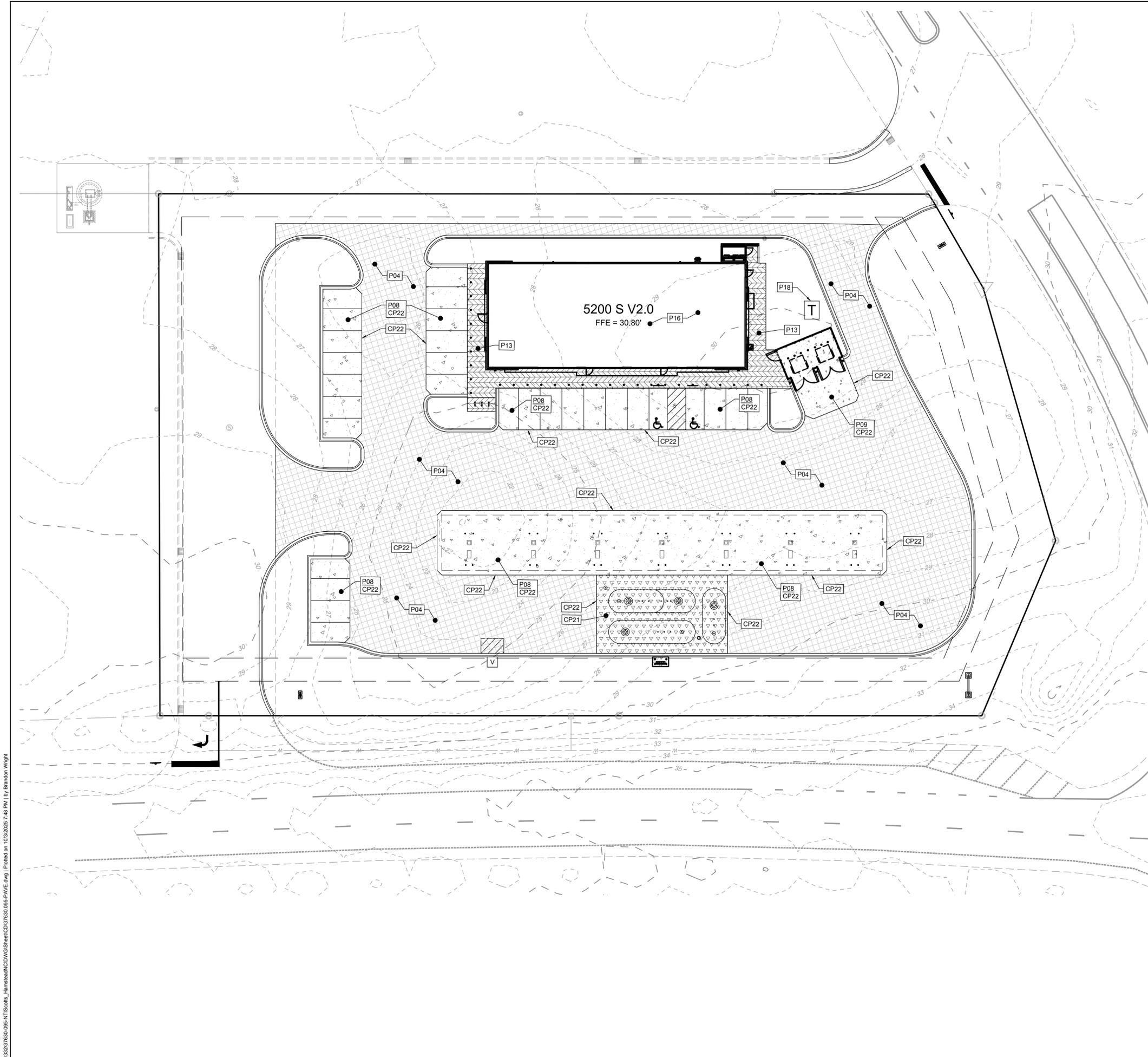
SITE LAYOUT PLAN

JOB NO.
37630.095

SHEET NO.
C2.0

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PAVING KEYNOTES		
NUMBER	HATCH	DESCRIPTION
P01		EXISTING PAVEMENT TO REMAIN UNDISTURBED.
P02		LIGHT DUTY ASPHALT PAVING; REFER TO PAVEMENT SECTIONS DETAIL.
P03		STANDARD DUTY ASPHALT PAVING; REFER TO PAVEMENT SECTIONS DETAIL.
P04		HEAVY DUTY ASPHALT PAVING; REFER TO PAVEMENT SECTIONS DETAIL.
P05		DOT ASPHALT; REFER TO PAVEMENT SECTIONS DETAIL.
P08		STANDARD DUTY CONCRETE PAVING; REFER TO PAVEMENT SECTIONS DETAIL.
P09		HEAVY DUTY CONCRETE PAVING; REFER TO PAVEMENT SECTIONS DETAIL.
P12		EXISTING SIDEWALK TO REMAIN UNDISTURBED.
P13		CONCRETE SIDEWALK; REFER TO PAVEMENT SECTIONS DETAIL.
P14		4" GRAVEL
P16		BUILDING PAD; REFER TO ARCHITECTURAL PLANS BY OTHERS.
P17		CONCRETE ISLAND PER NCDOT DETAIL 852.01 AND 852.02
P18		TRANSFORMER PAD PER UTILITY PROVIDER SPECIFICATIONS.
P19		REINFORCED GRASS FIRE TRUCK LANE
P20		MILL & OVERLAY; 1.5' WIDE
CP21		CONCRETE PAVING OVER UST TANKS. REFER TO FUELING PLANS BY OTHERS FOR DETAILS.
CP22		THICKENED EDGE; REFER TO DETAIL CK-155 AND CK-150.
CP23		REFER TO CONCRETE PAVEMENT JOINT DETAIL (TYP.); REFER TO DETAIL CK-175.
CP24		SPECIALTY CONCRETE; REFER TO KEYNOTES ON SITE LAYOUT PLAN

NOTE: CURB & GUTTER NOT HATCHED. REFER TO SITE LAYOUT PLAN FOR ADDITIONAL INFORMATION.

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DATE	DESCRIPTION

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332

CHECKED BY
J. DOOLEY

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TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

CIRCLE K - NTI HWY 17 & SCOTTS HILL LOOP ROAD
WILMINGTON - PENDER COUNTY - NORTH CAROLINA

PAVING PLAN

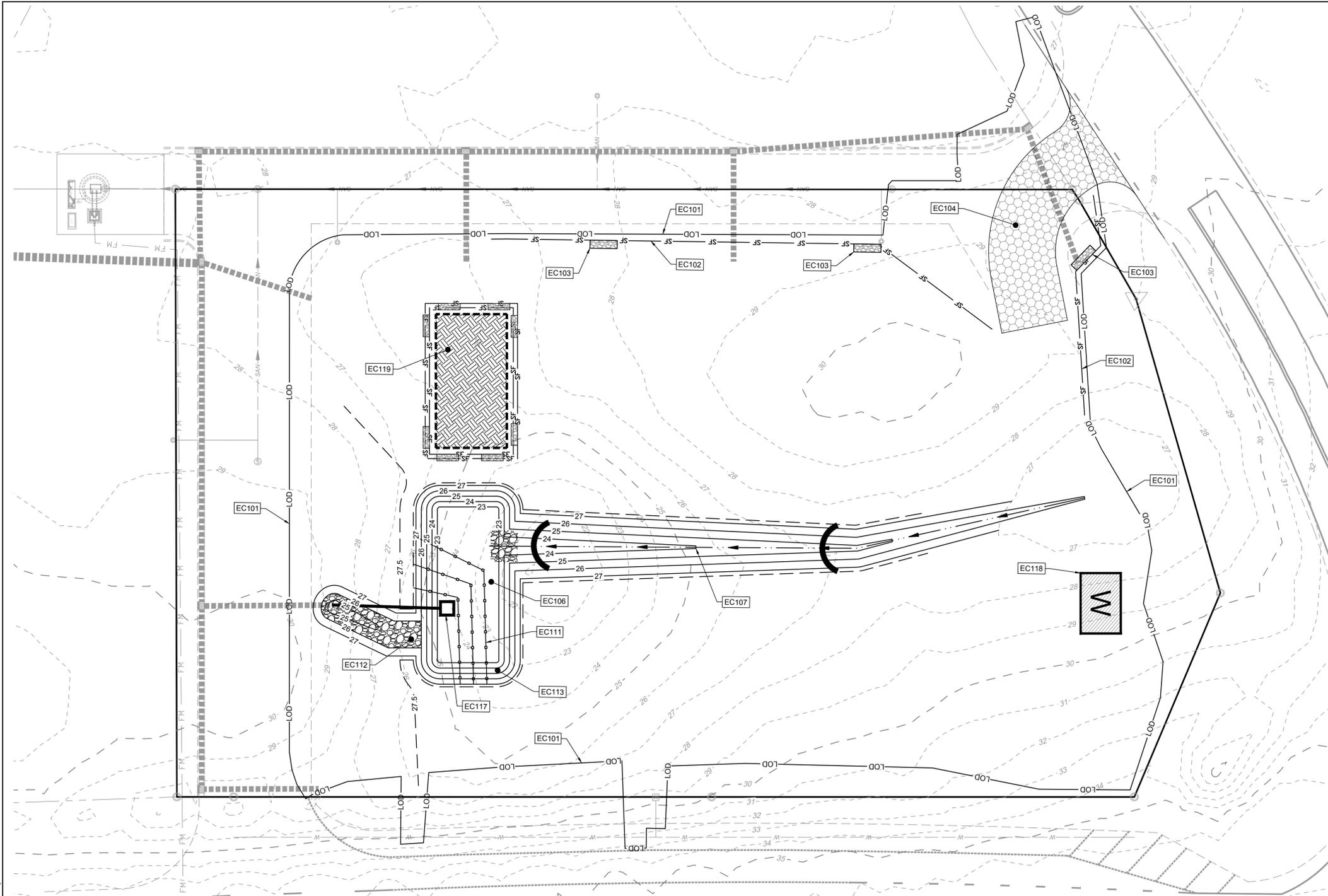
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EROSION CONTROL PLAN - PHASE I KEYNOTES	
NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC105	TEMPORARY INLET PROTECTION; REFER TO DETAIL (TYP.)
EC106	SKIMMER SEDIMENT BASIN #1 DRAINAGE AREA=3.81 AC; DIST AREA=2.63 AC REQ'D SURFACE AREA=5,908 SF; REQ'D STORAGE=4,734 CF PROV'D SURFACE AREA=6,632 SF; PROV'D STORAGE=11,241 CF (OR EQUIVALENT SURFACE AREA & VOLUME) PROVIDE 3" SKIMMER W/ 1.25" DIA. ORIFICE ON 4'X4'X1'D CLASS B PAD; TETHER TO BERM INV=318.00'
EC107	TEMP. DIVERSION DITCH #1 LENGTH = 219'; DRAINAGE AREA = 1.37 AC; S = 1.4% Q10 = 4.00 CFS; V10 = 2.89 FPS D10 = 0.60'; T = 0.51 #/SF USE 0.50' FBD' 1.10' DEEP W/ 3:1 SIDES LINE W/ N. AMERICAN GREEN (S75)
EC111	3 POROUS BAFFLES
EC112	10' WIDE SPILLWAY W/ CLASS B RIPRAP & NON-WOVEN LINER TOP OF EMBANKMENT=27.50 SPILLWAY ELEVATION=26.00
EC113	2:1 SIDE SLOPE
EC114	CLASS A RIP RAP DISSIPATER PAD (4.5'W X 6.0'L X 12"D)
EC115	CLASS A RIP RAP DISSIPATER PAD (15'W X 20'L X 12"D)
EC116	2:1 SIDE SLOPE
EC117	FLOATING DEVICE (SKIMMER) FOR DEWATERING (SEE DETAIL)
EC118	CONCRETE WASHOUT; REFER TO DETAIL
EC119	TEMPORARY STOCKPILE AREA

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH NCDEQ STANDARDS AND SPECIFICATIONS.
- A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY DEQ.
- FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
- EXCAVATION AND EARTH MOVING OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
- VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. NO WARRANTY IS GIVEN OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION. ALL EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND VERIFIED PRIOR TO COMMENCING ACTIVITY ON SITE.
- ALL ADJACENT ROADS TO THE SITE ARE TO BE SWEEPED AND WASHED AT THE END OF EACH WORK DAY TO ENSURE NO SEDIMENT COLLECTS ON THE ROADWAYS.
- INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
- INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
- PROVIDE NCDEQ WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO NCDEQ. THIS AREA MUST ALSO BE AN UPLAND AREA.
- CONCRETE WASHOUT TO BE LOCATED A MINIMUM OF 50' FROM ANY DRAINAGE STRUCTURE.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS.
- ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

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EROSION CONTROL PLAN - PHASE I

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SHEET NO. C4.0

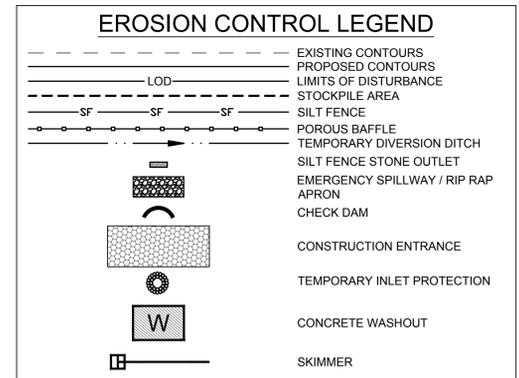
SKIMMER SEDIMENT BASIN MAINTENANCE
INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. REPAIR BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

BAFFLES MAINTENANCE
INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL. TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT, AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

- PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE:**
- OWNER/DEVELOPER/CONTRACTOR SHALL OBTAIN A COPY OF THE APPROVED EROSION CONTROL PLAN AND MAINTAIN A COPY OF THE PLAN ON SITE THROUGHOUT DURATION OF CONSTRUCTION.
 - PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR MUST LOCATE ALL EXISTING UTILITIES (PUBLIC AND PRIVATE). CONTACT THE ENGINEER IF ANY CONFLICTS ARISE.
 - OWNER/CONTRACTOR SHALL NOTIFY NCDEQ DEMLR (WILMINGTON, NC) AT (910) 796-7215 A MINIMUM OF 72 HOURS BEFORE START OF CONSTRUCTION ON EACH PHASE.
 - ONLY CLEAR/GRADE ENOUGH TO INSTALL SEDIMENT CONTROL DEVICES AS SHOWN IN PHASE I.
 - INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, SILT FENCE OUTLETS TEMPORARY PIPE AND SKIMMER SEDIMENT BASIN AS INDICATED ON PLAN. DISTURB ONLY THE AREAS NECESSARY FOR INSTALLATION.
 - ADJUST EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY FOR PROPER OPERATION. INSTALL ADDITIONAL EROSION CONTROL MEASURES IF DETERMINED NECESSARY BY INSPECTOR.
 - INSPECT ALL EROSION CONTROL DEVICES AFTER EVERY RAINFALL EVENT AND AT LEAST ONCE PER WEEK. REPAIR AND CLEAN OUT AS REQUIRED.
 - NOTIFY NCDEQ DEMLR (WILMINGTON, NC) AT (910) 796-7215 FOR AN INSPECTION AFTER THIS IS COMPLETED.
 - PROCEED TO PHASE 2 OF THE EROSION CONTROL SEQUENCE WHEN PHASE 1 MEASURES HAVE BEEN COMPLETED, INSPECTED, AND APPROVED.

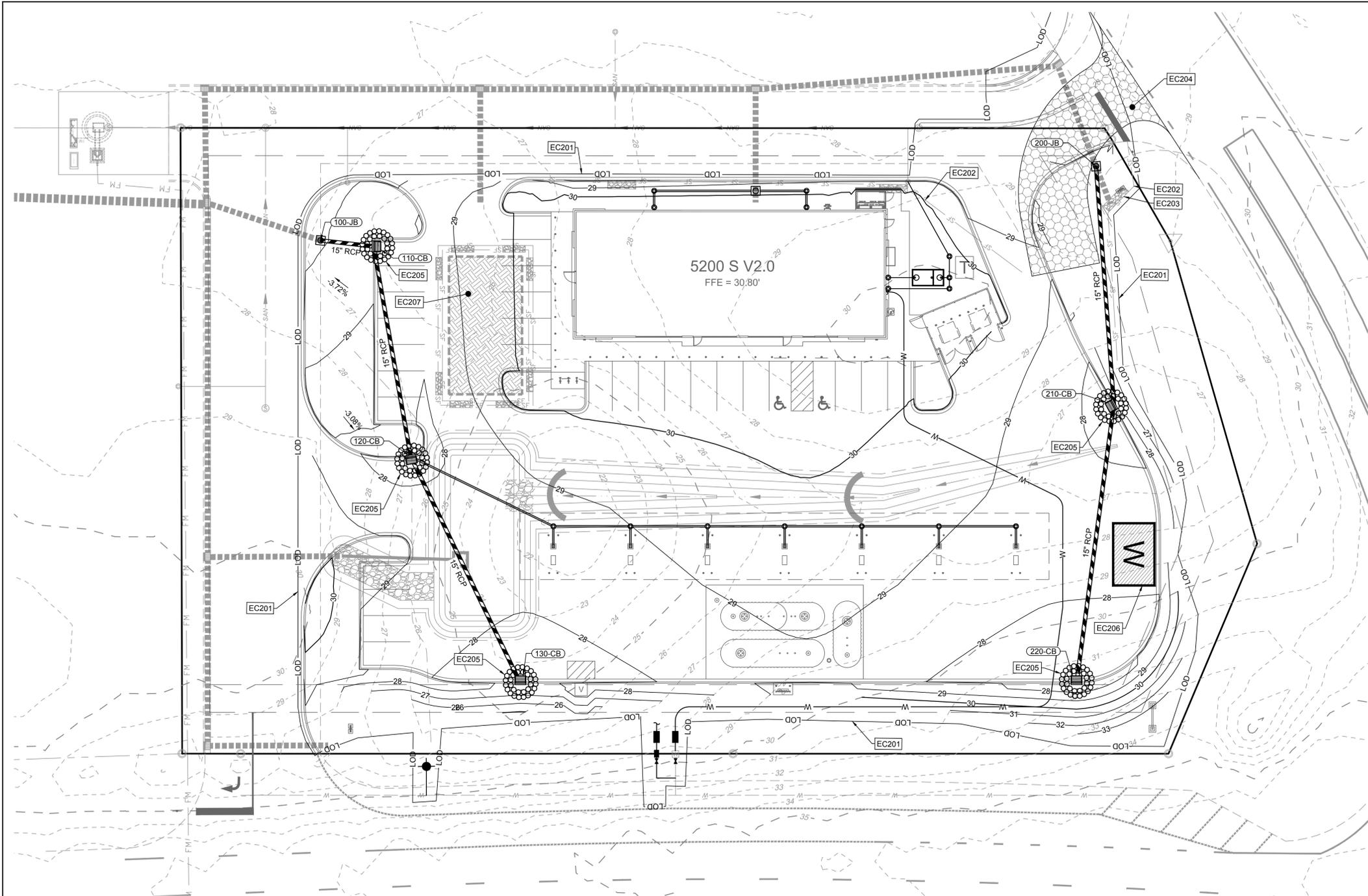
NOTES:

- STABILIZE LOWER PERIMETER UPON SEDIMENT BASIN CONSTRUCTION COMPLETION.
- MAINTAIN SILT FENCE AROUND THE ENTIRE PROJECT PERIMETER AREA WITH SILT FENCE OUTLETS AT THE LOW POINTS IN THIS PHASE.
- THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A 5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPS ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS. ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.



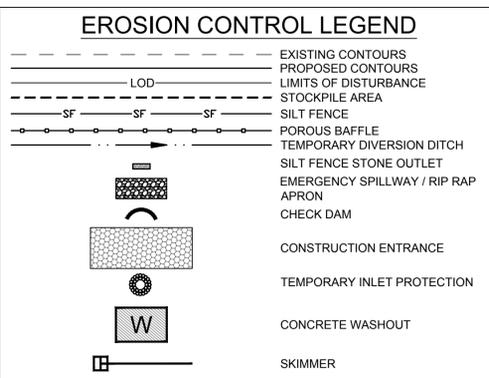
SCALE 1"=20'
0 20' 40'

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EROSION CONTROL PLAN - PHASE I KEYNOTES	
NUMBER	DESCRIPTION
EC201	LIMITS OF DISTURBANCE
EC202	SILT FENCE; REFER TO DETAIL (TYP). CONTRACTOR TO UPDATE SILT FENCE PLACEMENT AS PROJECT DEVELOPS TO DETAIN SEDIMENT ON-SITE.
EC203	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC204	TEMPORARY 30' X 50' CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC205	TEMPORARY ROCK PIPE INLET PROTECTION; SEE DETAIL
EC206	CONCRETE WASHOUT; REFER TO DETAIL
EC207	TEMPORARY STOCKPILE AREA

- PHASE II EROSION CONTROL CONSTRUCTION SEQUENCE:**
- MAINTAIN ALL EXISTING EROSION CONTROL FEATURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE 2 EROSION CONTROL.
 - CONTINUE BRINGING FILL INTO THE SITE. IMPORTED MATERIAL WILL REQUIRE A PERMITTED SITE APPROVAL BEFORE THIS PROCESS BEGINS. ALL FILL SHALL BE BROUGHT INTO THE SITE AND EVENLY SPREAD OUT THROUGH THE SITE AS SHOWN IN LIFTS OF NO MORE THAN 1.0' AT A TIME. FILL SHALL BE ROLL COMPACTED BY A DOZER OR EQUIVALENT AS IT IS PLACED.
 - BEGIN INSTALLATION OF THE STORM PIPE SYSTEM FROM JB201 TO OC5204. ONCE THIS RUN IS COMPLETE, INSTALL SKIMMER SEDIMENT BASIN.
 - AFTER THE SEDIMENT BASIN IS CONSTRUCTED, CONTINUE INSTALLING STORM DRAINAGE SYSTEM FROM OUTLET POINT (LOW END) AND WORK UPSTREAM. PIPE INLET PROTECTION SHALL BE UTILIZED AT THE END OF EACH WORK DAY TO ASSURE PIPE NETWORK IS NOT INUNDATED WITH SEDIMENT.
 - INSTALL SITE IMPROVEMENTS, STORMWATER DRAINAGE SYSTEM, UTILITY SERVICES, SIDEWALKS AND DRIVES AS SHOWN ON THE APPROVED PLANS. ALL OPEN TRENCHES FOR UTILITY AND STORMWATER INSTALLATION SHALL BE PROTECTED FROM SEDIMENTATION BY PILING EXCAVATED MATERIAL ON THE UPHILL SIDE OF EXCAVATION.
 - INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AND/OR INCREASE MAINTENANCE FREQUENCY WHERE APPROVED MEASURES FAIL TO PREVENT ACCELERATED EROSION, OFF-SITE SEDIMENTATION, OR REPETITIVE NON-COMPLIANCE ISSUES. ALL MEASURES MUST BE INSTALLED PER PLAN DETAIL. ENSURE CONSTRUCTION TRAFFIC IS LIMITED TO THE CONSTRUCTION ENTRANCE ONLY.
 - GROUND COVER SHALL BE PROVIDED AS FOLLOWS:
 - FOR ALL AREAS OF MODERATE AND/OR STEEP SLOPES, PROVIDE TEMPORARY GROUND COVER IF THE SLOPE HAS NOT BEEN DISTURBED FOR A PERIOD OF FOURTEEN (14) DAYS. SLOPES GREATER THAN 3:1 REQUIRE GROUND COVER IN 7 DAYS.
 - PROVIDE GROUND COVER SUFFICIENT TO RESTRAIN EROSION ON ANY PORTION OF THE SITE UPON WHICH FURTHER LAND-DISTURBING ACTIVITY IS NOT BEING UNDERTAKEN WITHIN FOURTEEN (14) CALENDAR DAYS OF TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY.
 - ESTABLISH PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT AND/OR PRIOR TO FINAL INSPECTION.
 - INSTALL CURB & GUTTER AND GRAVEL BASE.
 - MODIFICATIONS TO THE APPROVED AND PERMITTED PLANS SHALL BE APPROVED BY EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OR INSTALLATION. CONTACT THE EROSION CONTROL INSPECTOR TO OBTAIN SIGN-OFF ON THE PLANS.
 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION, AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/REPLACED. SILT FENCE CAN NOT HAVE HOLES OR TEARS.
 - ONCE GRADING IS COMPLETE, ALL UTILITIES, AND ALL STORM SYSTEMS ARE INSTALLED AND THE SITE IS COMPLETELY STABILIZED PER THE NPDES PLAN AND ABOVE, CONVERT THE SEDIMENT BASIN TO A STORMWATER INFILTRATION BASIN AS FOLLOWS:
 - CONSULT WITH THE EROSION AND SEDIMENT CONTROL INSPECTOR PRIOR TO BEGINNING THE CONVERSION FROM SEDIMENT BASIN TO INFILTRATION BASIN.
 - PUMP DOWN BASIN - USE APPROVED DEWATERING MEASURES. EFFLUENT MUST BE FILTERED.
 - REMOVE ACCUMULATED SEDIMENT (AS NEEDED) TO ESTABLISH THE FINAL GRADE OF THE POND. SEDIMENT MUST BE DISPOSED OF IN AN APPROVED AREA.
 - REMOVE TEMPORARY SKIMMER AND BAFFLES.
 - REMOVE TEMPORARY GRIBICE PLUGS FROM RISER AND CLOSE RISER DRAIN.
 - INSTALL PERFORATION IN DRAIN PIPE PER DETAIL.
 - ACCURATELY FINE GRADE BASIN TO DESIGN CONTOURS. CONTRACTOR TO SURVEY TO VERIFY ALL GRADES.
 - INSTALL SAND LAYERS AND OBSERVATION PORT.
 - INSTALL FOREBAY BERMS AND RIPRAP.
 - INSTALL PLANTINGS, SOD, MULCH, ETC. AS SHOWN ON APPROVED PLAN.
 - CONTRACTOR TO HAVE A LICENSED SOIL SCIENTIST PERFORM AN INFILTRATION TEST AT THE BOTTOM ELEVATION OF THE SCM AND IMMEDIATELY REPORT THE INFILTRATION RATE TO THE ENGINEER.
 - AT A MINIMUM OF SEVEN (7) DAYS PRIOR TO SCHEDULING THE STORMWATER FINAL INSPECTION, SUBMIT ANY REQUIRED PAPERWORK TO THE EROSION CONTROL INSPECTORS FOR APPROVAL. FAILURE TO DO SO WILL PREVENT A CERTIFICATE OF OCCUPANCY FROM BEING ISSUED.
 - ONCE THE STORMWATER FINAL INSPECTION IS APPROVED, CLOSE THE GRADING PERMIT AND OBTAIN A CERTIFICATE OF COMPLETION.



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 - A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
 - FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY DEQ.
 - FIELD VERIFY ALL DIMENSIONS AND GRADES ON THESE PLANS PRIOR TO CONSTRUCTION. FAILURE TO NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PLAN OR GRADE CHANGES, MAY RESULT IN NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY.
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 - INSPECT AND PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EVERY RAINFALL EVENT.
 - INSTALL ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT RUNOFF.
 - PROVIDE NCDEQ WITH THE LOCATION OF OFFSITE STOCKPILES USED TO STORE EXCAVATED SOIL FROM THE SITE. THE LOCATION OF OFFSITE STOCKPILES MUST BE AN UPLAND AREA. IF AN OFFSITE BORROW OR SPOIL SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE BORROW/SPOIL SITE MUST BE INCLUDED IN THE LAND DISTURBANCE PERMIT. THE CONTRACTOR WILL PROVIDE THE LOCATION OF ALL EXCAVATED SOILS USED FOR THIS PROJECT TO NCDEQ. THIS AREA MUST ALSO BE AN UPLAND AREA.
 - CONCRETE WASHOUT TO BE LOCATED A MINIMUM OF 50' FROM ANY DRAINAGE STRUCTURE.
 - THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS.
 - ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

SCALE 1"=20'

0 20' 40'

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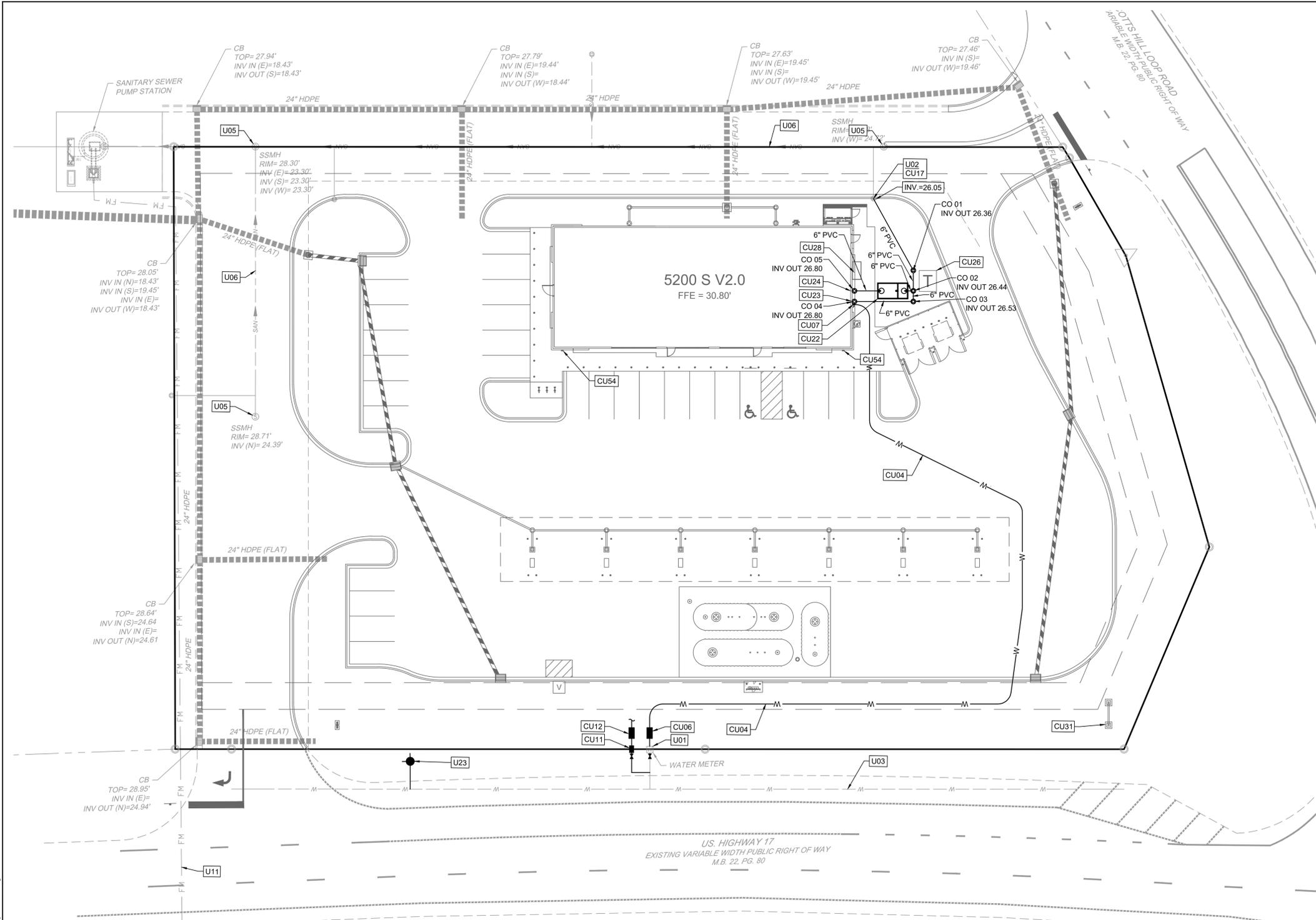
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EROSION CONTROL PLAN - PHASE II

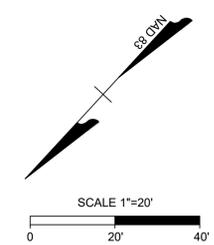
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- UTILITY NOTES**
- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
 - ALL UNDERGROUND FEATURES INDICATED ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE NOTED.
 - CONTRACTOR SHALL COORDINATE THE LOCATION OR RELOCATION OF ALL OVERHEAD AND UNDERGROUND COMMUNICATION LINES, ELECTRIC AND GAS SERVICE WITH THE APPROPRIATE UTILITY COMPANY AND/OR THE CITY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS.
 - ALL ILLUSTRATED UTILITY INFRASTRUCTURE IS DIAGRAMMATIC AND MAY NOT REPRESENT THE ACTUAL SIZE OF INFRASTRUCTURE. NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE NOTED.
 - ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PENDER COUNTY UTILITIES AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
 - CURB STOPS ARE REQUIRED AND SHALL BE LOCATED 1 FOOT FROM THE METER BOX. CURB STOPS SHALL BE INSTALLED IN A CURB STOP BOX AS MANUFACTURED BY FORD, A.Y. McDONALD, OR TRUMBULL.
 - SERVICE SADDLES SHALL BE ALL BRONZE WITH DOUBLE BRONZE STRAPS WITH A NEOPRENE "O" RING GASKET ATTACHED TO THE BODY.
 - ALL WATER METERS SHALL BE PROVIDED AND INSTALLED BY PENDER COUNTY UTILITIES.
 - METERS WILL BE THE SAME SIZE IN DIAMETER AS THE SERVICE.
 - A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND ALL WATER METERS.
 - ALL 6" SANITARY SEWER SERVICES CONNECTIONS SHALL BE MADE INTO MANHOLES ONLY.
 - UTILITY TRENCHES SHALL BE CUT AND PAVEMENT REPAIRED TO PENDER COUNTY STANDARDS.
 - ALL DISTURBED HARDSCAPE AND LANDSCAPING (CONCRETE, ASPHALT, BRICK, TREES, SHRUBS, ETC) SHALL BE REPLACED ACCORDING TO PENDER COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
 - BOUNDARY AND SURVEY INFORMATION IS TAKEN FROM A SURVEY BY SURVEYOR INFO.
 - ALL OVERHEAD UTILITY LINES SHALL BE ADJUSTED TO MAINTAIN ACCEPTABLE CLEARANCES FOR FIRE APPARATUS, CONSTRUCTION EQUIPMENT, AND VEHICULAR ACCESS.



UTILITY KEYNOTES	
NUMBER	DESCRIPTION
U01	EXISTING DOMESTIC WATER METER
U02	EXISTING SANITARY SEWER CLEANOUT (TYP.)
U03	EXISTING 16" CI WATERLINE
U05	EXISTING SANITARY SEWER MANHOLE (TYP.)
U06	EXISTING 24" SANITARY SEWER MAIN (TYP.)
U07	EXISTING UTILITY POLE (TYP.)
U08	EXISTING OVERHEAD UTILITY LINE (TYP.)
U09	EXISTING UNDERGROUND TELEPHONE (TYP.)
U10	EXISTING UNDERGROUND FIBER OPTIC (TYP.)
U14	EXISTING GUY WIRE TO REMAIN
U17	20' x 20' BORE PIT/OPEN CUT ASPHALT
U18	SAWCUT, REMOVE, & REPLACE EXISTING PAVEMENT
U19	8"x2" TEE & VALVE
U20	BORE & JACK W/ STEEL ENCASMENT PIPE
U23	FIRE HYDRANT ASSEMBLY (TYP.)
U30	CLEANOUT (TYP.), TRAFFIC RATED IF LOCATED WITHIN PAVEMENT; REFER TO DETAIL.
U51	ADJUST EXISTING APPURTENANCE TO MATCH FINISHED GRADE.
U52	COORDINATE WITH WATER DEPARTMENT TO ENSURE THAT SERVICE IS NOT INTERRUPTED AT ANY TIME.
U53	CONNECT TO EXISTING SANITARY SERVICE. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, CONDITION, AND INVERT PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL HAVE EXISTING LINE JETTED AND A CAMERA RUN THROUGH IT TO VERIFY PRIOR TO ANY CONSTRUCTION.
U58	5' GENERAL UTILITY EASEMENT
CU01	CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. IMMEDIATELY NOTIFY CLIENT AND ENGINEER IF DISCREPANCIES OR CONFLICTS ARE FOUND.
CU03	WATER LINE POINT OF CONNECTION.
CU04	2" TYPE K COPPER DOMESTIC WATER SERVICE; CONFIRM SIZE WITH MEP PLANS BY OTHERS.
CU05	1.5" DOMESTIC WATER METER
CU06	1.5" DOMESTIC RPZ BACKFLOW PREVENTER (PER LOCAL REQUIREMENTS) DOWNSTREAM OF THE WATER METER. PROVIDE POWER TO HOT BOX. REFER TO DETAIL CK-240.
CU07	WATER LINE POINT OF ENTRY TO BUILDING; REFER TO MEP PLANS BY OTHERS.
CU09	WATER LINE POINT OF ENTRY TO AIR AND WATER MACHINE.
CU11	1" IRRIGATION METER
CU12	1" RPZ IRRIGATION BACKFLOW PREVENTER (PER LOCAL REQUIREMENTS) DOWNSTREAM OF THE IRRIGATION METER. PROVIDE POWER TO HOT BOX. REFER TO DETAIL CK-240.
CU13	1.5" IRRIGATION WATER LINE. REFER TO IRRIGATION PLANS BY OTHERS AND DETAILS CK-230 AND CK-235. INSTALL IRRIGATION SLEEVES UNDER PAVEMENT. LOCATION PER IRRIGATION PLAN. PROVIDE AS-BUILT TO CIRCLE K CONSTRUCTION MANAGER.
CU14	APPROXIMATE RAINBIRD IRRIGATION CONTROLLER LOCATION. OWNER'S REPRESENTATIVE SHALL PINPOINT EXACT LOCATION ON-SITE. IRRIGATION CONTRACTOR SHALL HARDWIRE POWER TO CONTROLLER. REFER TO IRRIGATION PLANS BY OTHERS.
CU17	SANITARY SEWER POINT OF CONNECTION.
CU18	4" PVC SANITARY SEWER SERVICE @ 1/4" PER LF MIN. SLOPE, 4' MIN. COVER (TYP.).
CU19	SANITARY SEWER CLEANOUT. TRAFFIC RATED IF WITHIN PAVEMENT (TYP.). REFER TO DETAIL CK-205.
CU21	SANITARY SEWER WYE CONNECTION.
CU22	GREASE TRAP; REFER TO MEP PLANS BY OTHERS FOR SIZING, MATERIAL, VENTING, AND DETAILS.
CU23	SANITARY SEWER POINT OF ENTRY TO BUILDING; REFER TO MEP PLANS BY OTHERS.
CU24	GREASE SERVICE POINT OF ENTRY TO BUILDING; REFER TO MEP PLANS BY OTHERS.
CU25	ELECTRIC SERVICE POINT OF CONNECTION. COORDINATE WITH LOCAL PROVIDER. LOCAL PROVIDER CAN SUPERSEDE THE PROPOSED CONNECTION POINT.
CU26	ELECTRIC TRANSFORMER PAD LOCATION. COORDINATE WITH LOCAL PROVIDER. LOCAL PROVIDER CAN SUPERSEDE THE PROPOSED TRANSFORMER PAD LOCATION. PROVIDE TWO (2) 6" CONDUITS BETWEEN POINT OF CONNECTION AND TRANSFORMER. 24" MINIMUM BURY DEPTH WITH 18" OF VERTICAL SEPARATION AT WATER AND SEWER CROSSINGS.
CU27	ELECTRIC SERVICE LINE.
CU28	ELECTRIC SERVICE POINT OF ENTRY TO BUILDING; REFER TO MEP PLANS BY OTHERS.
CU29	PROVIDE POWER TO EMERGENCY SHUT OFF SWITCH; REFER TO MEP AND FUELING PLANS.
CU30	PROVIDE POWER TO AIR MACHINE. CIRCLE K VENDOR TO PROVIDE AIR MACHINE.
CU30W	PROVIDE POWER TO AIR AND WATER MACHINE. CIRCLE K VENDOR TO PROVIDE AIR AND WATER MACHINE.
CU31	PROVIDE POWER TO MID SIGN; WIRED BY BUILDING ELECTRICAL CONTRACTOR. VERIFY EXACT LOCATION AND DESIGN BEFORE ROUGH-IN. PERMITTED BY OTHERS.
CU32	LIGHT POLE BASE; REFER TO DETAIL CK-190. REFER TO LIGHTING, ELECTRICAL, AND STRUCTURAL PLANS BY OTHERS (TYP.).
CU33	PROVIDE 2" CONDUIT FOR FUTURE ELECTRIC CHARGING STATION FROM BUILDING. STUB AND CAP 8" ABOVE FINISHED GRADE. CONDUIT RUNS BURIED A MINIMUM OF 24" BELOW GRADE AND HAVE A PULL STRING INSTALLED. CONDUIT RUNS MUST NOT EXCEED A TOTAL OF 180° DEGREES OF BEND WITHOUT A PULL BOX. STANDARD 90° BEND IS 6' BENDS WITH 3' RADIUS.
CU34	FLAG POLE GROUND LIGHTING. WIRED BY BUILDING ELECTRICAL CONTRACTOR. COORDINATE WITH CONSTRUCTION MANAGER FOR LIGHTING PLACEMENT. REFER TO DETAIL CK-317.
CU37	NON-FREEZE YARD HYDRANT (TYP.) WATTS TYPE HY-800 OR APPROVED EQUAL.
CU39	TELEPHONE SERVICE POINT OF CONNECTION. COORDINATE WITH LOCAL PROVIDER.
CU40	TELEPHONE SERVICE; REFER TO ARCHITECTURAL PLANS BY OTHERS. COORDINATE WITH LOCAL PROVIDER AND CIRCLE K CONSTRUCTION MANAGER FOR ACCOUNT SETUP. PROVIDE A 4" CONDUIT FOR TELEPHONE FROM BUILDING TO POINT OF CONNECTION. PROVIDE A 3" CONDUIT FOR CABLE/INTERNET FROM BUILDING TO PEDESTAL. CONDUIT RUNS BURIED A MINIMUM OF 24" BELOW GRADE AND HAVE A PULL STRING INSTALLED. CONDUIT RUNS MUST NOT EXCEED A TOTAL OF 180° DEGREES OF BEND WITHOUT A PULL BOX. STANDARD 90° BEND IS 6' BENDS WITH 3' RADIUS.
CU41	TELEPHONE SERVICE LINE.
CU42	TELEPHONE SERVICE POINT OF ENTRY TO BUILDING; REFER TO ARCHITECTURAL AND MEP PLANS BY OTHERS.
CU51	GAS SERVICE POINT OF CONNECTION, COORDINATE WITH LOCAL PROVIDER.
CU52	2" GAS SERVICE CONSTRUCTED BY LOCAL PROVIDER.
CU53	GAS SERVICE POINT OF ENTRY TO BUILDING; REFER TO MEP PLANS BY OTHERS.
CU54	EMERGENCY SHUT-OFF SWITCH, SEE ELECTRICAL AND FUEL PLAN.

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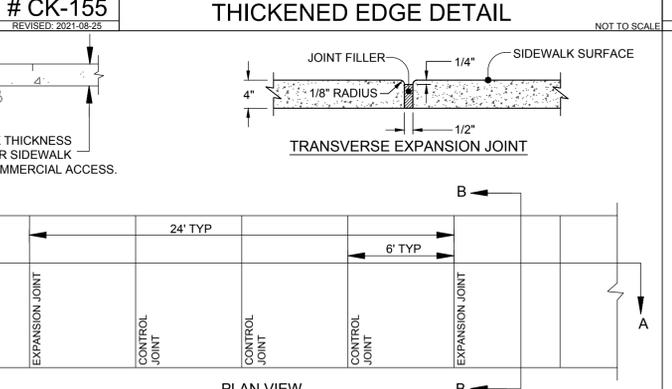
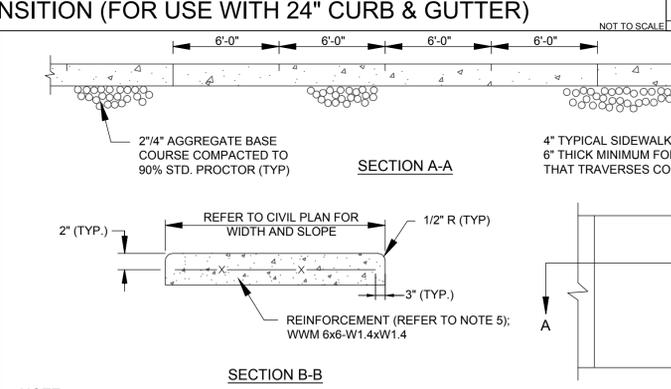
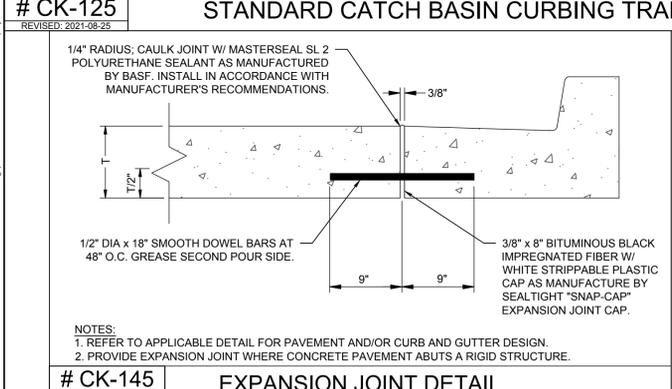
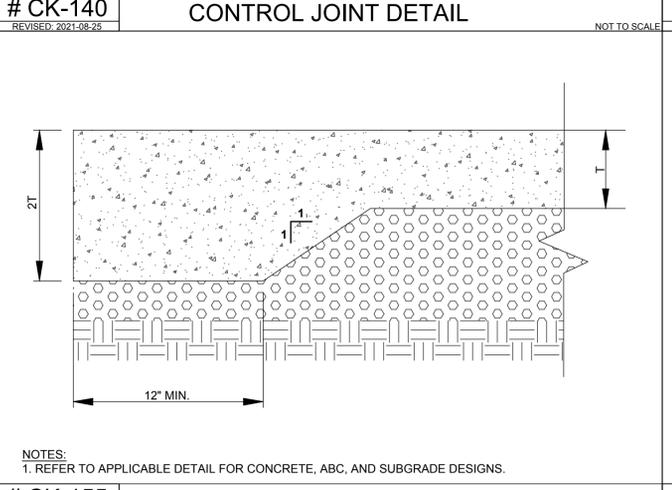
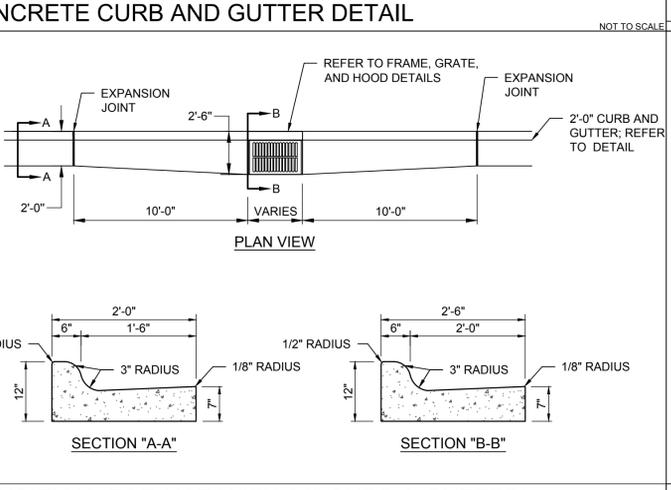
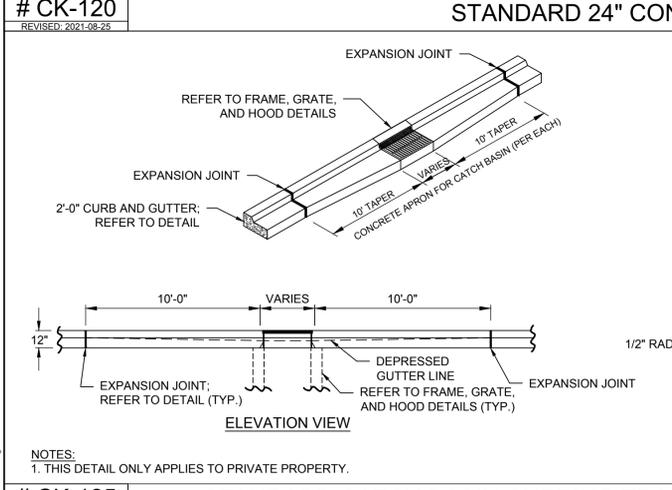
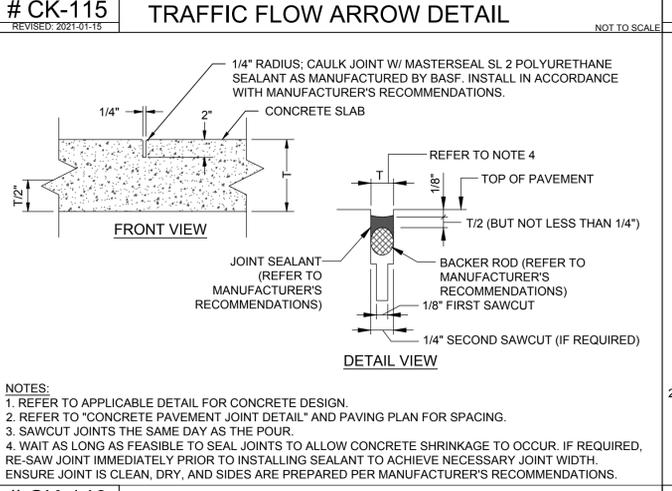
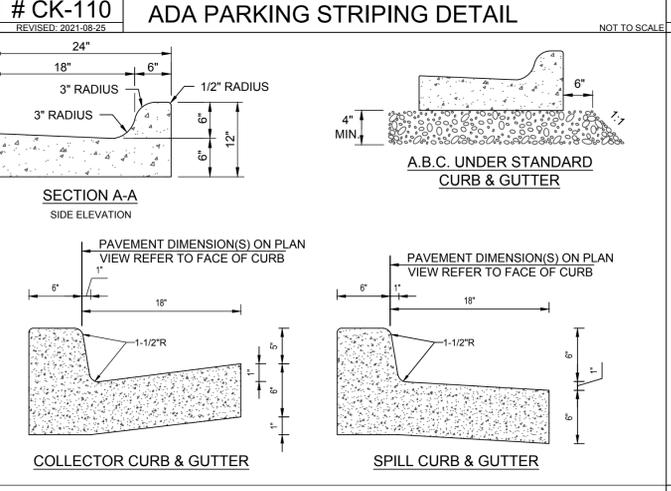
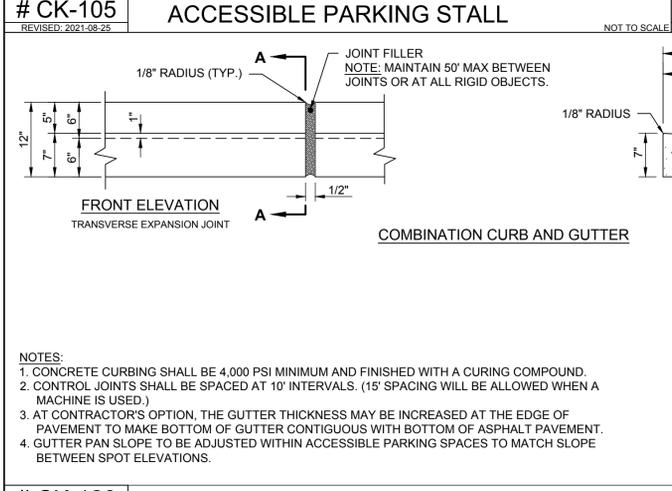
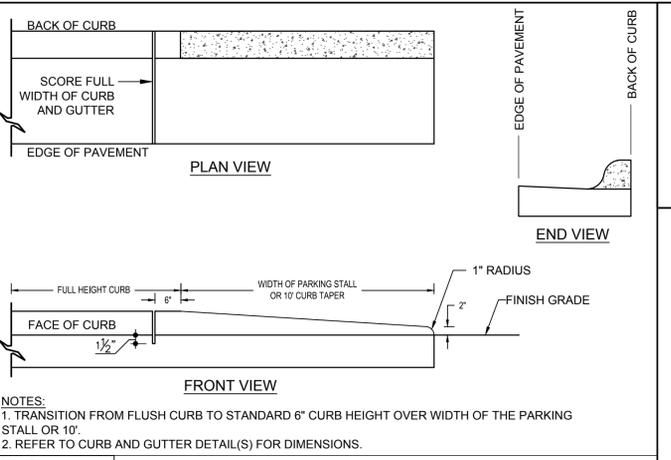
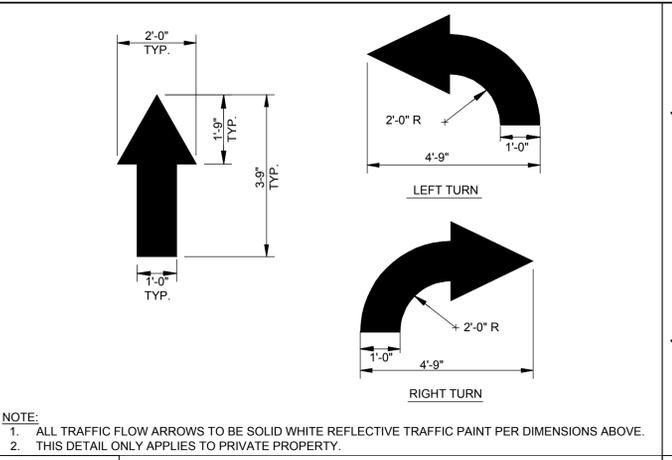
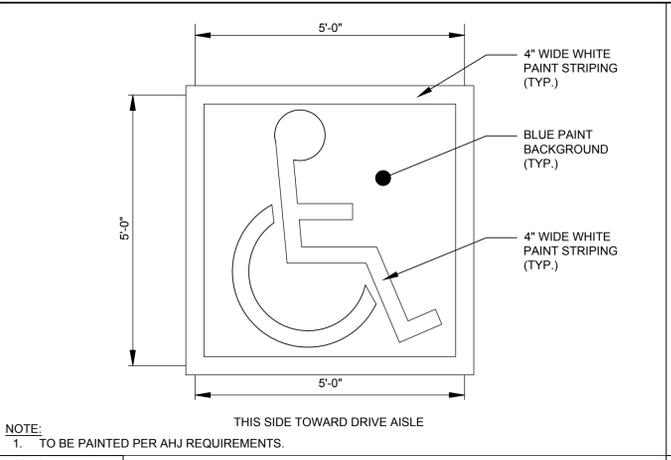
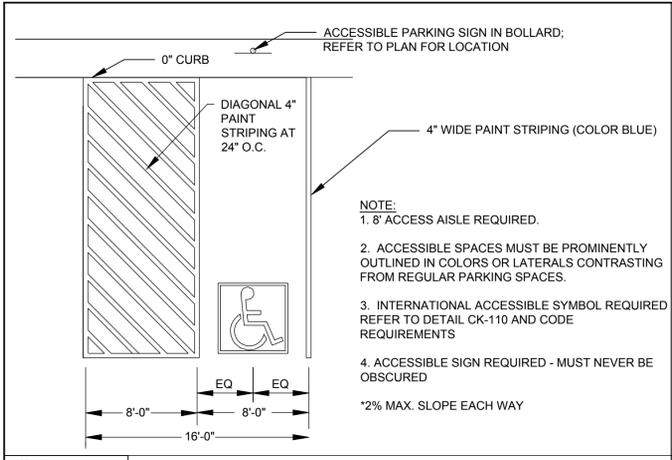
CIRCLE K - NTI HWY 17 & SCOTTS HILL LOOP ROAD
WILMINGTON - PENDER COUNTY - NORTH CAROLINA

UTILITY PLAN

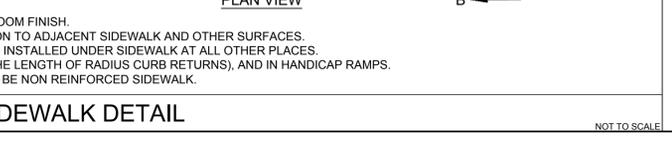
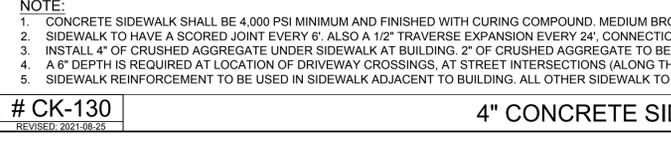
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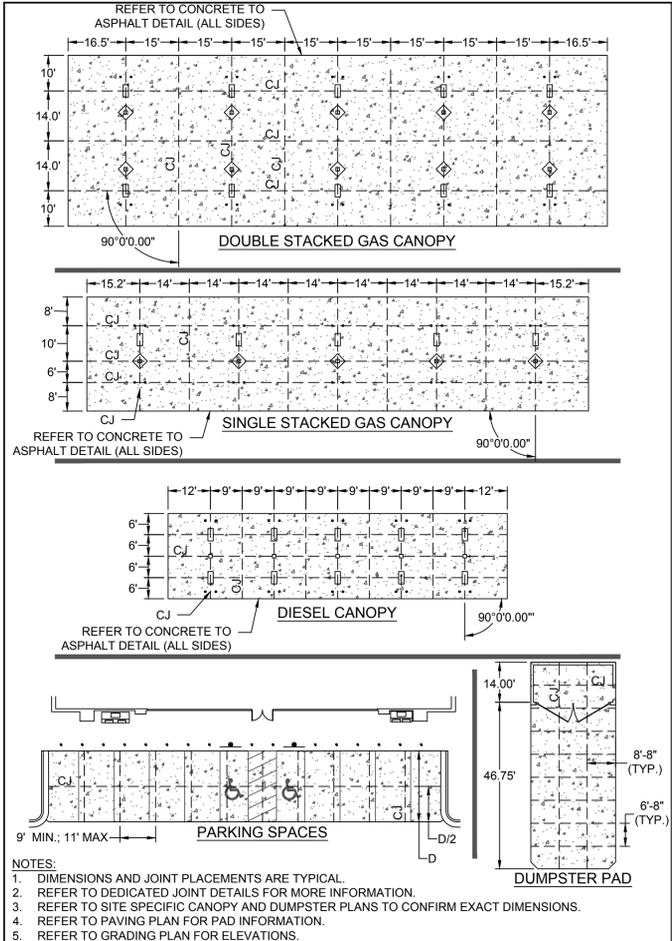
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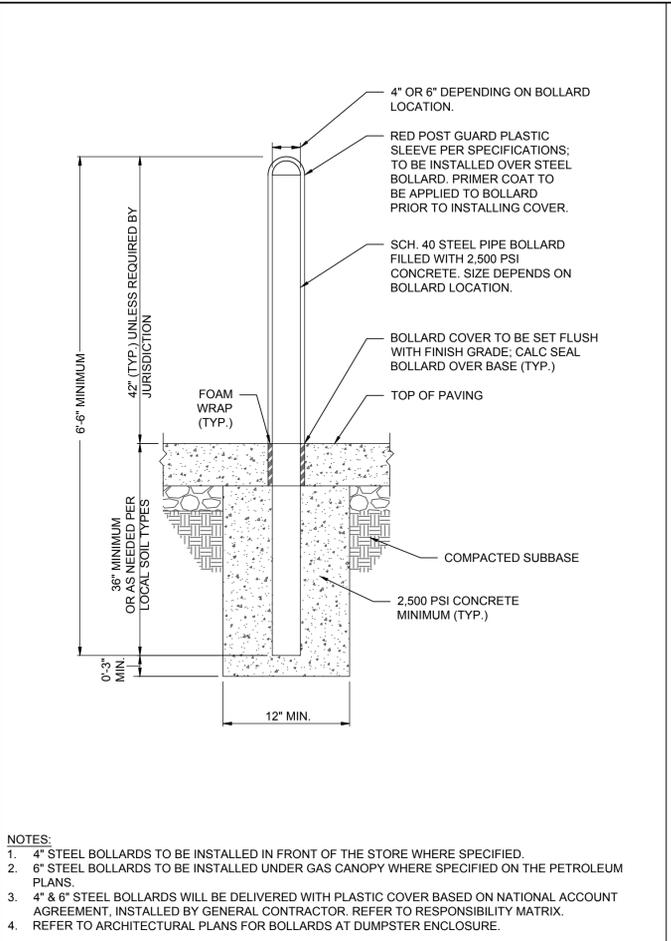
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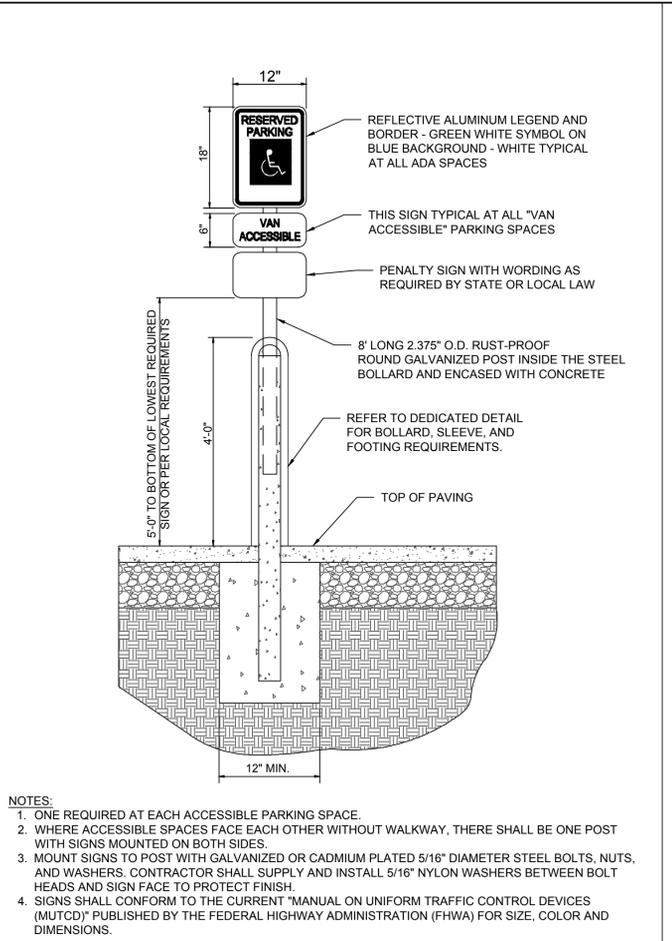
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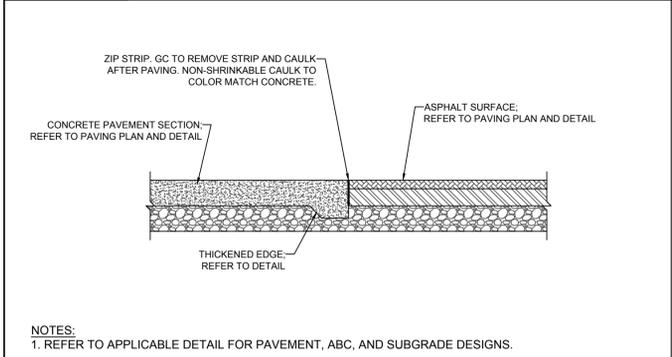
CK-175 CONCRETE PAVEMENT JOINT DETAIL NOT TO SCALE



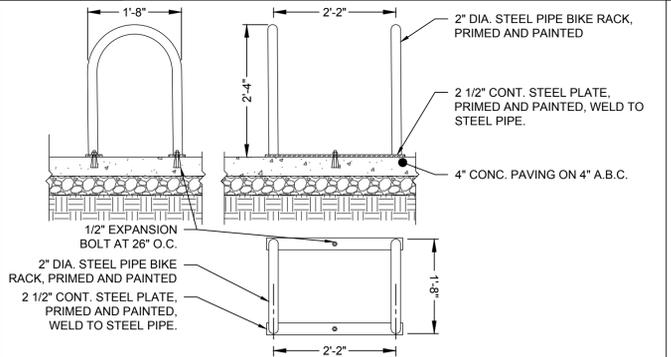
CK-180 4" & 6" BOLLARD WITH COVER DETAIL NOT TO SCALE



CK-185 BOLLARD MOUNTED ADA SIGN DETAIL NOT TO SCALE



CK-150 CONCRETE-TO-ASPHALT DETAIL NOT TO SCALE



CK-198 BIKE RACK DETAIL (TYPICAL OF 2) NOT TO SCALE

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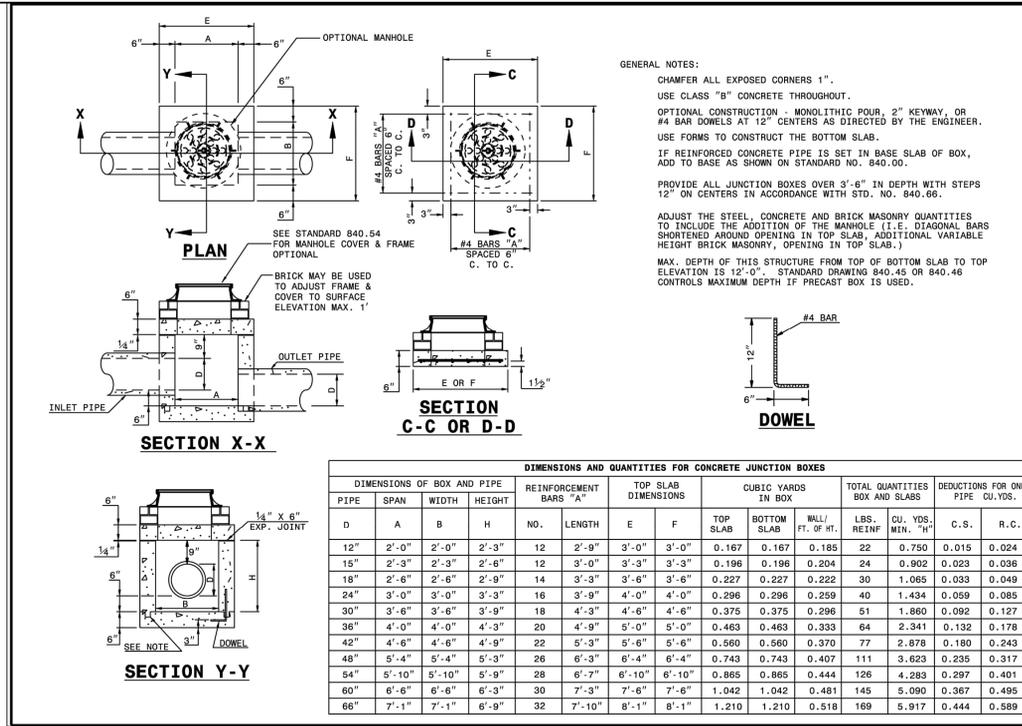
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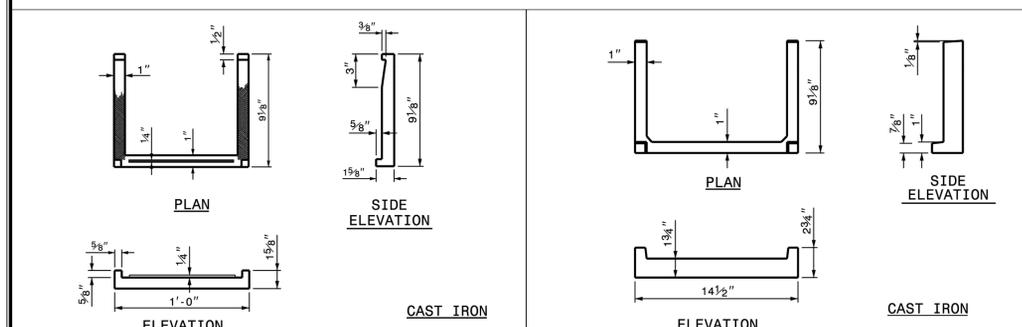
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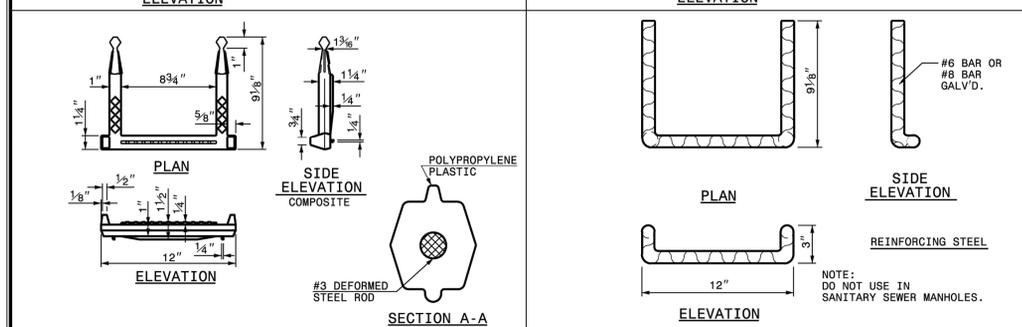


1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR CONCRETE JUNCTION BOX 12" THRU 66" PIPE
 SHEET 1 OF 1
840.31

NOTES:
 INSTALL ALL STEPS PROTRUDING 4" FROM INSIDE FACE OF STRUCTURE WALL.
 STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.



1-24 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
 ROADWAY STANDARD DRAWING FOR DRAINAGE STRUCTURE STEPS
 SHEET 1 OF 1
840.66



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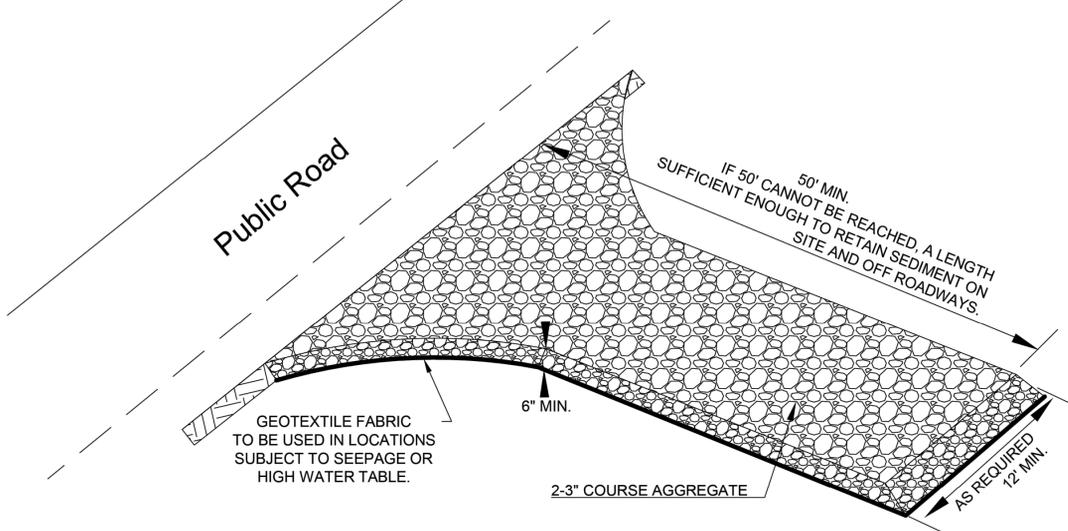
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CIRCLE K - NTI HWY 17 & SCOTTS HILL LOOP ROAD
 WILMINGTON - PENDER COUNTY - NORTH CAROLINA

NOTES & DETAILS

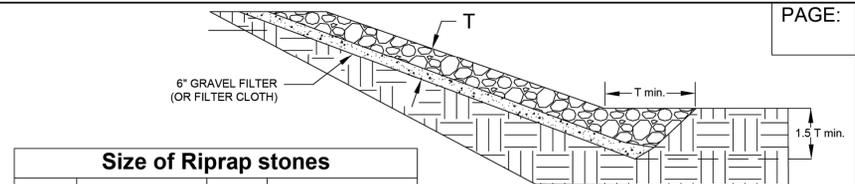
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SHEET NO. C7.5



- Construction:**
1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
 2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
 3. Provide drainage to carry water to a sediment trap or other suitable outlet.
 4. Use geotextile fabrics in order to improve stability of the foundation in locations subject to seepage or high water table.
- Maintenance:**
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
 2. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone.
 3. Sediment on roadways is to be removed immediately by broom and shovel, either by manual or mechanical means, and not to be washed off where it has the potential to enter a stream, drainage way or storm drain system.

- Subgrade Preparation:**
1. Prepare the subgrade for riprap and filter to the required lines and grades shown on the plans.
 2. Compact any fill required in the subgrade to a density approximating that of the surrounding undisturbed material or overfill depressions with riprap.
 3. Remove brush, trees, stumps, and other objectionable material.
- Sand and Gravel Filter Blanket:**
1. Place the filter blanket immediately after the ground foundation is prepared.
 2. When using gravel, spread filter stone in a uniform layer to the specified depth.
 3. When more than one layer of filter material is used, spread the layers with minimal mixing.
- Synthetic Filter Fabric:**
1. Place the cloth filter directly on the prepared foundation.
 2. Overlap the edges by at least 12 inches, and space anchor pins every 3 feet along the overlap.
 3. Bury the upstream end of the cloth a minimum of 12 inches below ground and bury the lower end of the cloth or over lap with the next section as required.
 4. If damage occurs while placing riprap, remove the riprap, and repair the sheet by adding another layer of filter material with a minimum overlap of 12 inches around the damaged area. If damage is extensive, remove and replace the entire sheet.
 5. If placing large stones or machine placing is difficult, a 4 inch layer of fine gravel or sand may be needed to protect the filter cloth.
- Maintenance:**
- In general, once a riprap installation has been properly designed and installed it requires very little maintenance. Riprap should be inspected periodically for scour or dislodged stones. Control of weed and brush growth may be needed in some locations.



Size of Riprap stones

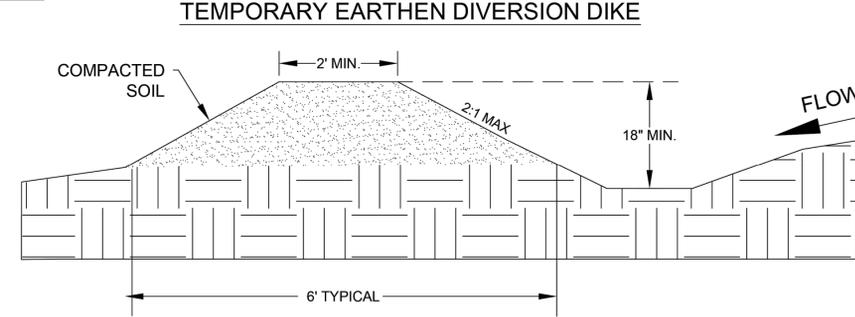
Weight (lb)	Mean Spherical Diameter (ft)	Length (ft)	Rectangular Shape Width/Height (ft)
50	0.8	1.4	0.5
100	1.1	1.8	0.6
150	1.3	2.0	0.7
300	1.6	2.6	0.9
500	1.9	3.0	1.0
1000	2.2	3.7	1.3
1500	2.6	4.7	1.5
2000	2.8	5.4	1.8
4000	3.6	6.0	2.0
6000	4.0	6.9	2.3
8000	4.5	7.6	2.5
20,000	6.1	10.0	3.3

Sizes for Riprap and Erosion Control Stone Specified by NCDOT

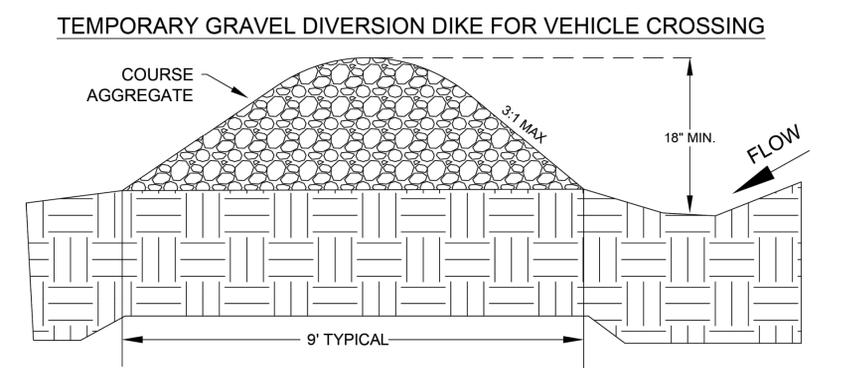
Riprap		Erosion Control	
Class 1	Class 2	Class A	Class B
5-200 lb	25-250 lb	2"-6"	5"-15"
30% shall weigh a minimum of 60 lbs each	60% shall weigh a minimum of 100 lbs each		
No more than 10% shall weigh less than 15 lbs each	No more than 5% shall weigh less than 50 lbs each	10% tolerance top and bottom sizes	
		Equally distributed, no gradation specified	Equally distributed, no gradation specified

Riprap should be a well-graded mixture with 50% by weight larger than the specified design size. Diameter of the largest stone size in the mix should be 1.5 times the d_{50} size with smaller sizes grading down to 1 inch.

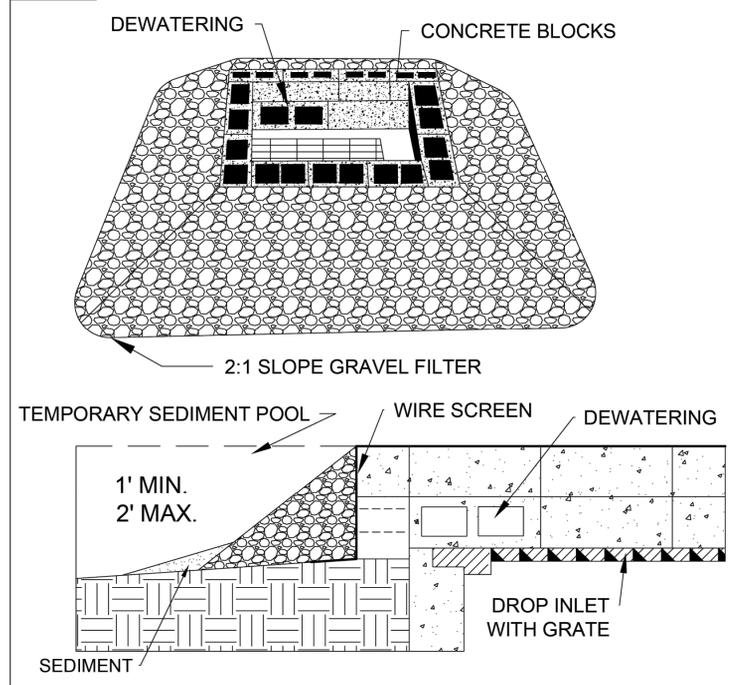
- Stone Placement:**
1. Placement of riprap should follow immediately after placement of the filter.
 2. Place so that riprap forms a dense, well-graded mass of stone with a minimum of voids.
 3. Place to its full thickness in one operation.
 4. Do not place by dumping through chutes or other methods that cause segregation of stone sizes.
 5. Take care not to dislodge underlying base or filter when placing stone.
 6. The toe of the riprap slope should be keyed to a stable foundation at its base.
 7. The toe should be excavated to a depth about 1.5 times the design thickness of the riprap and extend horizontally from the slope, as shown above.
 8. Hand placing may be necessary to achieve the proper distribution of stone sizes to produce a relatively smooth, uniform surface.



- NOTES:**
1. Remove and properly dispose of all tree, brush, stumps, and other objectionable material.
 2. Temporary diversions are to only be used for drainage areas of 5 acres or less.
 3. Ridges will have a 2 feet minimum top width, 2:1 or flatter side slopes and a minimum of 0.3 feet freeboard.
 4. Channels will have a parabolic, trapezoidal, or V shape with side slopes of 2:1 or flatter.
 5. Any point where vehicles will be crossing should have 3:1 or flatter side slopes.
 6. Ensure the top of the dike is not lower at any point than the design elevation plus the specified settlement.
 7. Provide sufficient room around diversions to permit machine re-grading and cleanout.
 8. Vegetate the ridge immediately after construction unless it will remain in place less than 30 working days.



- MAINTENANCE:**
1. Inspect all measures at least weekly and after every rainfall of 1.0 inch or greater.
 2. Make all repairs immediately.
 3. Immediately remove any sediment from the flow area and repair the diversion ridge.
 4. Check outlets and make timely repairs as needed.



- NOTES:**
1. Lay one block, on each side of the structure, on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. Place the bottom row of blocks against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, give lateral support to subsequent rows by placing 2 inch x 4 inch wood studs through block openings.
 2. Carefully fit hardware cloth or comparable wire mesh with 1/2-inch openings over all block openings to hold gravel in place.
 3. Use clean gravel 1/2 to 3/4 inch in diameter, placed 2 inches below the top of the block on a 2:1 slope or flatter and smooth it to an even grade. NCDOT #57 washed stone is recommended.

- MAINTENANCE:**
1. Inspect all measures at least weekly and after every rainfall of 1.0 inch or greater; repair immediately.
 2. Remove sediment as necessary to provide adequate storage volume for subsequent rains.
 3. When the contributing drainage area has been adequately stabilized, remove all materials and any unstable soil, and either salvage or dispose of it properly. Bring the disturbed area to proper grade, then smooth and compact before stabilizing.

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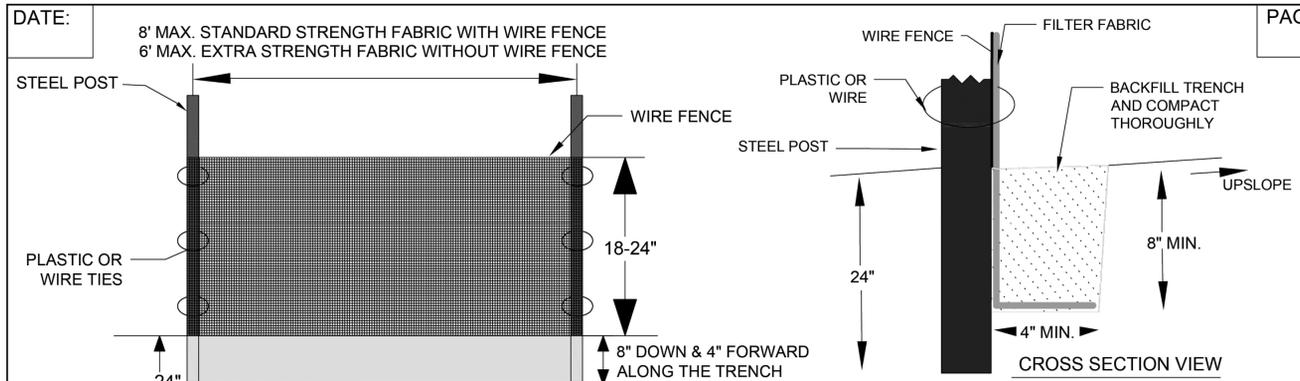
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CIRCLE K - NTI HWY 17 & SCOTTS HILL LOOP ROAD
WILMINGTON - PENDER COUNTY - NORTH CAROLINA

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JOB NO. 37630.095
SHEET NO. C7.6



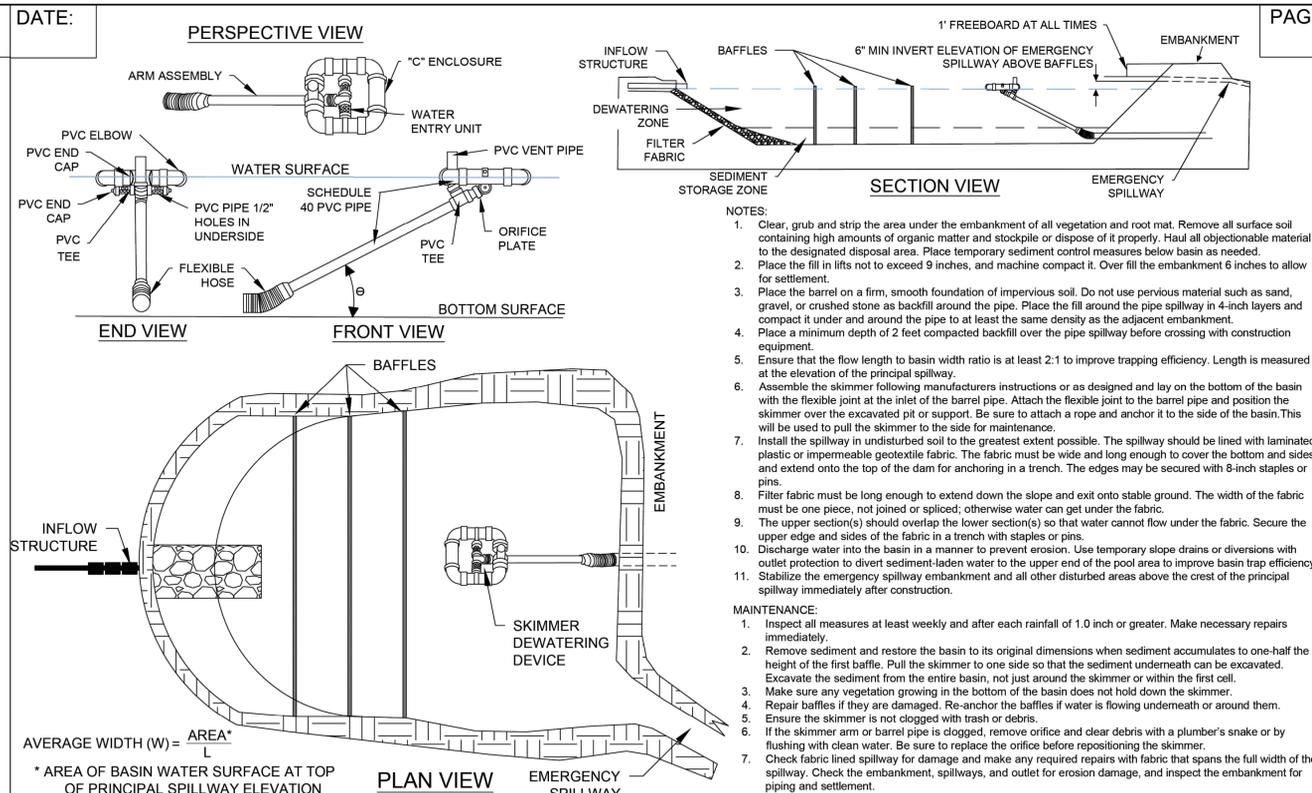
Max. Slope Length and Slope for Which Sediment Fence is Applicable

Slope	Slope Length (ft)	Max. Area (ft ²)
<2%	100	10,000
2 to 5%	75	7,500
5 to 10%	50	5,000
10 to 20%	25	2,500
>20%	15	1,500

- Maintenance:**
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
 2. Should the fabric of a sediment fence collapse, tear, decompose, or become ineffective, replace it promptly.
 3. Remove sediment deposits as necessary to provide adequate storage volume for the next rain and reduce pressure on the fence. Take care to avoid undermining the fence during cleanouts.
 4. 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.

Notes:

1. Construct the sediment barrier of standard strength or extra strength synthetic filter fabrics.
2. Ensure that the height of the sediment fence does not exceed 24 inches above the ground. (Higher fences may impound volumes of water sufficient to cause failure of the structure)
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 feet minimum overlap to the next post.
4. Support standard strength filter fabric by wire mesh fastened securely to the upslope side of the posts. Extend the wire mesh support to the bottom of the trench. Fasten the wire reinforcement, then fabric on the upslope side of the fence post. Wire or plastic zip ties should have a minimum 50 pound tensile strength.
5. When a wire mesh support fence is used, space posts a maximum of 8 feet apart. Supports should be driven securely into the ground a minimum of 24 inches. Wire mesh should be a minimum 14-gauge with 6 inch mesh spacing.
6. Extra strength filter fabric with 6 foot post spacing does not require a wire mesh support fence. Securely fasten the filter fabric directly to posts. Wire or plastic zip ties should have a minimum of 50 pound tensile strength.
7. Excavate the trench approximately 4 inches wide and 8 inches deep along the proposed line of the posts and upslope from the barrier.
8. Place 12 inches of fabric along the bottom and side of the trench.
9. Backfill the trench with soil placed over the filter fabric and compact. Thorough compaction of the backfill is critical to silt fence performance.
10. Do not attach filter fabric to existing trees.
11. Do not place across ditches, streams, or any other areas of concentrated flow.

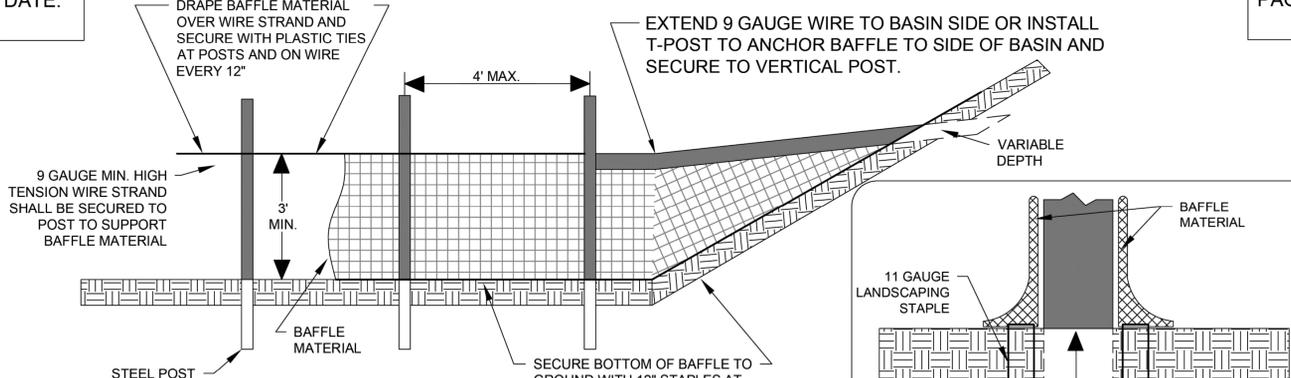


SKIMMER SEDIMENT BASIN

Effective Date: 9/1/2023 In accordance with the 2013 Design Manual Updates

SEDIMENT FENCE

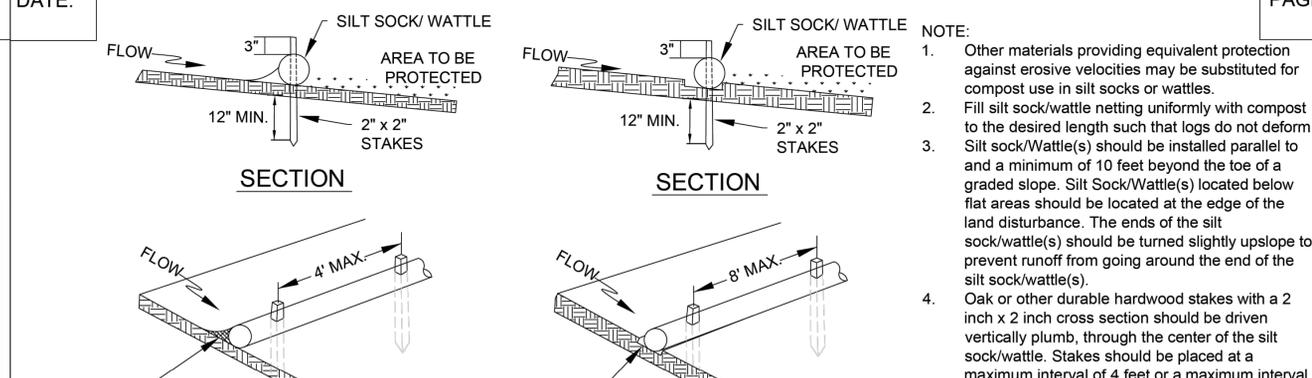
Effective Date: 9/1/2023 In accordance with the 2013 Design Manual Updates



Notes:

1. Use matting made of 100% coconut fiber (coir) twine woven into high strength matrix.
2. Staples should be made of 0.125 inch diameter, new steel wire formed into a 'U' shape not less than 12 inches in length with a throat of 1 inch in width. The staples anchor the porous baffles into the sides and bottom of the basin.
3. Grade the basin so that the bottom is level front to back and side to side.
4. Install the coir fiber baffles immediately upon excavation of the basins.
5. Install posts across the width of the sediment trap.
6. Steel posts should be driven to a depth of 24 inches and spaced in a maximum of 4 feet apart. The top of the fabric should be a minimum of 6 inches higher than the invert of the spillway. Tops of the baffles should be a minimum of 2 inches lower than the top of the earthen embankment.
7. Install 3 coir fiber baffles in basins at drainage outlets with a spacing of 1/4 the basin length. 2 coir fiber baffles can be installed in the basins less than 20 feet in length with a spacing of 1/3 the basin length.
8. Attach a 9-gauge high tension wire strand to the steel posts at a height of 6 inches above the spillway elevation with plastic ties or wire fasteners to prevent sagging. If the temporary sediment basin will be converted to a permanent stormwater basin of a greater depth, the baffle height should be based on the pool depth during use as a temporary sediment basin.

- Maintenance:**
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater and repair immediately.
 2. Maintain access to baffles. If the fabric collapses, tears, decomposes, or becomes ineffective, replace immediately.
 3. Remove sediment deposits when it reaches half full. Replace if baffle fabric is damaged during clean-out operations. Sediment depth should never exceed half the designed storage depth.



Notes:

1. Other materials providing equivalent protection against erosive velocities may be substituted for compost use in silt socks or wattles.
2. Fill silt sock/wattle netting uniformly with compost to the desired length such that logs do not deform.
3. Silt sock/Wattle(s) should be installed parallel to and a minimum of 10 feet beyond the toe of a graded slope. Silt Sock/Wattle(s) located below flat areas should be located at the edge of the land disturbance. The ends of the silt sock/wattle(s) should be turned slightly upslope to prevent runoff from going around the end of the silt sock/wattle(s).
4. Oak or other durable hardwood stakes with a 2 inch x 2 inch cross section should be driven vertically plumb, through the center of the silt sock/wattle. Stakes should be placed at a maximum interval of 4 feet or a maximum interval of 8 feet if the silt sock/wattle is placed in a 4 inch trench.
5. In the event staking is not possible (ie. when socks/wattles are used on pavement) heavy concrete blocks shall be used behind the silt sock/wattle to hold it in place during runoff events.

COMPOST SOCK INITIAL FLOW RATES

Compost Sock Design Diameter	8 Inch (200 mm)	12 Inch (300 mm)	18 Inch (450 mm)	24 Inch (600 mm)	32 Inch (750 mm)
Maximum Slope Length (<2%)	600 Feet (183 m)	750 Feet (229 m)	1,000 Feet (305 m)	1,300 Feet (396 m)	1,650 Feet (500 m)
Hydraulic Flow Through Rate	7.5 gpm/ft (94 l/m/m)	11.3 gpm/ft (141 l/m/m)	15.0 gpm/ft (188 l/m/m)	22.5 gpm/ft (281 l/m/m)	30.0 gpm/ft (374 l/m/m)

POROUS BAFFLES

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SILT SOCK / WATTLE FOR PERIMETER AND INLET PROTECTION

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PRELIMINARY NOT FOR CONSTRUCTION

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NOTES & DETAILS

JOB NO.
37630.095

SHEET NO.
C7.7

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