

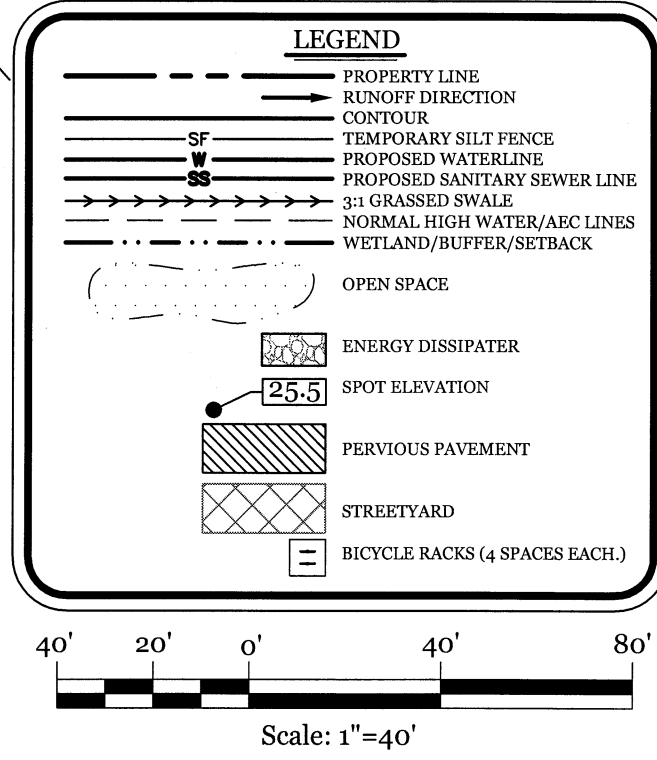
GENERAL TRAFFIC NOTES:

- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD-13 COWF TECH STD]
- ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. [DETAIL SD 15-13 COWF TECH STD]
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-8888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN. [SD 15-14 COWF TECH STD]
- CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.

FIRE & SAFETY NOTES:

- CONSTRUCTION TYPE: R-3 RESIDENTIAL
- BUILDINGS WILL NOT BE SPRINKLED
- PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS.
- ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
- HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE.
- IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.

Approved Construction Plan		STORMWATER MANAGEMENT PLAN	
Name _____	Date _____	APPROVED	
Planning _____		CITY OF WILMINGTON	
Public Utilities _____		ENGINEERING DEPARTMENT	
Traffic _____		DATE _____ PERMIT # _____	
Fire _____		SIGNED _____	



- SITE NOTES:**
- PHASE-I DATA FROM TRIPP ENGINEERING, PC PLAN DATED: 3/25/03
 - PHASE-II SURVEY DATA FROM JOHNNY WILLIAMS SURVEYING DATED 12/14/15
 - SITE LOCATED IN FLOOD ZONE "AE-10" AND "SHADED X" PER FEMA FLOOD MAP # 3720314700J PANEL # 3147 DATED 4/3/2006.
 - CR SHALL REMAIN UNDIVIDED AND SHALL BE PERMANENTLY PRESERVED BY CONSERVATION EASEMENTS, PROTECTIVE COVENANTS, OR SIMILAR RESTRICTIONS OR BY ANY OF THE PROCEDURES FOR THE DEDICATION OF PARK, RECREATION, AND OPEN SPACE AREAS SET FORTH IN SECTION 18-384(E) OF THE LDC.
 - CONSTRUCTION AND GRADING WILL NOT DISTURB THE WETLAND RESOURCE.
 - PERPETUAL PROTECTIONS OF THE WETLANDS/CONSERVATION RESOURCES AND BUFFERS MUST BE RECORDED IN THE NEW HANOVER COUNTY REGISTRY AND PROHIBITING IMPERVIOUS SURFACES WITHIN THE SETBACKS, WHERE APPLICABLE.
- DEVELOPMENT NOTES:**
- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE.
 - PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & NEW HANOVER COUNTY REGULATIONS.
 - NINETY DEGREE CUTOFF LIGHTING TO BE USED ON ALL LIGHTING THAT EXCEEDS 10' IN HEIGHT.
 - PROPOSED USE AT THIS TIME IS RESIDENTIAL MULT-FAMILY.
 - CONSTRUCTION AND GRADING IS NOT TO DISTURB THE WETLAND RESOURCE.
- UTILITY NOTES:**
- EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM CAPE FEAR PUBLIC UTILITY AUTHORITY PUBLIC MAINS.
 - ALL PROPOSED UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
 - ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CPUPA TECHNICAL SPECIFICATIONS & STANDARDS.
 - PROJECT SHALL COMPLY WITH CPUPA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND N.C.E.A.R. HAS ISSUED THEIR "FINAL APPROVAL." CALL 343-3910 FOR INFORMATION.
 - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CPUPA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCPCCOHR OR ASSE.
 - WATER & SEWER SERVICES CAN NOT BE ACTIVATED ON NEW MAINS UNTIL THE ENGINEER'S CERTIFICATION AND AS-BUILTS ARE RECEIVED AND "FINAL APPROVAL" ISSUED BY THE PUBLIC WATER SUPPLY SECTION OF NCDEM, AND "FINAL ENGINEERING CERTIFICATION" ISSUED BY DIVISION OF WATER QUALITY SECTION OF NCDEM.
 - IF CONTRACTOR DESIRES CPUPA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
 - WHEN PVC WATER MAINS AND SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED, SINGLE-STRAND COPPER WIRE INSTALLED & STRAPPED TO THE PIPES WITH DUCT TAPE. THIS IS TO BE ACCESSIBLE IN ALL VALVES AND METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OR EXISTING UTILITIES DURING CONSTRUCTION. CALL U-LOCO AT 1-800-632-4949. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB & GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OR WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
 - THE BELL SOUTH CONTACT IS STEVE DAYVAULT, BUILDING INDUSTRY CONSULTANT, AT 910-392-8712. CONTACT HIM PRIOR TO STARTING THE PROJECT IN ORDER TO FACILITATE GOOD COMMUNICATION AND MAXIMUM FLEXIBILITY.
 - THE PROCESS FOR TELEPHONE CABLE PLACEMENT: * FINAL GRADE WILL NEED TO BE ESTABLISHED. * POWER WILL PLACE THEIR CABLE FIRST - APPROXIMATELY 3' DEEP. * BELL SOUTH & CABLE TV WILL THEN PLACE THEIR CABLE AT APPROXIMATELY 2' DEEP.
 - SOLID WASTE DISPOSAL IS COW CURBSIDE PICKUP.
 - EXISTING WATER AND SEWER SERVICES TO BE ABANDONED PER CPUPA SPECIFICATIONS.

SITE DATA:

TOTAL SITE AREA: ± 7.15 AC

PHASE I SITE DATA (EXISTING)

PARCEL ID: R05600-007-006-000

CURRENT ZONING: R-7 (CD)

PROJECT ADDRESS: WRIGHTSVILLE AVE WILMINGTON, NC 28403

CURRENT OWNER: PENTON PROPERTIES WILMINGTON, NC 28403

TOTAL ACREAGE IN PROJECT BOUNDARY ± 4.5 AC.

TOTAL IMPERVIOUS BUILDINGS CONCRETE ASPHALT TOTAL 12,130 S.F. 5,563 S.F. 12,047 S.F. 29,740 S.F.

PHASE II SITE DATA

PARCEL ID: R05600-007-005-000

CURRENT ZONING: R-7 (CD)

CAMA LAND USE CLASSIFICATION: WATERSHED RESOURCE PROTECTION/CONSERVATION

PROJECT ADDRESS: 6037 WRIGHTSVILLE AVE WILMINGTON, NC 28403

CURRENT OWNER: BETTY LOCKAMY 6037 WRIGHTSVILLE AVE WILMINGTON, NC 28403

TOTAL ACREAGE IN PROJECT BOUNDARY 115,619 S.F. (2.65 AC.)

BUILDING SIZE: 12,096 S.F. TOTAL (1,728 PER DUPLEX)

BUILDING HEIGHT: 17' MEAN ROOF HEIGHT

BUILDING SETBACKS:

FRONT: REQUIRED= 30' PROPOSED= 58.2'
SIDE: REQUIRED= 10' PROPOSED= 107'
REAR: REQUIRED= 25' PROPOSED= 363'

CALCULATION FOR BUILDING COVERAGE: PROPOSED COVERAGE 12,096 S.F. + 115,619 S.F. = 10.5 %

TOTAL IMPERVIOUS BEFORE & AFTER DEVELOPMENT:

BEFORE DEVELOPMENT	
BUILDINGS	3,086 S.F.
GRAVEL DRIVEWAY	2,251 S.F.
TOTAL	5,337 S.F.

AFTER DEVELOPMENT

BUILDINGS	12,096 S.F.
CONCRETE SIDEWALKS	3,059 S.F.
ASPHALT DRIVE	17,394 S.F.
TOTAL	32,549 S.F.

OFFSITE IMPERVIOUS AREAS: CONCRETE DRIVEWAY APRON 251 S.F.

TOTAL AREA WITHIN AEC FOR PH 1 AND PH 2= 68,238 S.F.

TOTAL IMPERVIOUS AREA WITHIN AEC= 1,895 S.F. / 68,238 S.F. = 2.8%

PARKING REQUIRED: 1.5 SPACES / 1BR UNIT @ 14 UNITS = 21 SPACES (2 H.C.)

PARKING PROVIDED: 27 SPACES (2 H.C.)

BICYCLE PARKING REQUIRED: (MIN. 5 PER 25-125 VEHICLE SPACES) PROVIDED: 8 SPACES

PARKING LOT INTERIOR LANDSCAPING REQUIRED PROVIDED 12,865 S.F. * 8% = 1,029 S.F. 1,082 S.F.

OPEN SPACE REQUIREMENT: (40% of site area) 2.65 AC X 0.40 = 1.06 AC PROVIDED: 1.21 AC

OPEN SPACE REQUIREMENT: (0.03 AC. per dwelling unit) .03 X 14 du = 0.42 AC (Min 50% active open space) PROVIDED: 0.24 AC ACTIVE OPEN SPACE

STREETYARD REQUIREMENT: 12' X 132LF X 12' = 1,584 S.F. PROVIDED: 2,730 S.F.

CONDITIONS OF CONDITIONAL DISTRICT REZONING:

THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL COMPLY WITH ALL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE, THE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL AND ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL LAW, THE MORE STRINGENT REZONING OR HIGHER STANDARD SHALL APPLY.

APPROVAL OF THIS CONDITIONAL DISTRICT REZONING DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. FINAL APPROVAL BY THE TECHNICAL REVIEW COMMITTEE AND THE ISSUANCE OF ALL REQUIRED PERMITS MUST OCCUR PRIOR TO RELEASE OF THE PROJECT FOR CONSTRUCTION.

IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.

THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL BE IN ACCORDANCE WITH THE PLAN AS SUBMITTED AND APPROVED.

THE PROPOSED USE SHALL BE LIMITED TO THREE SINGLE-FAMILY UNITS AND 13 DUPLEX UNITS.

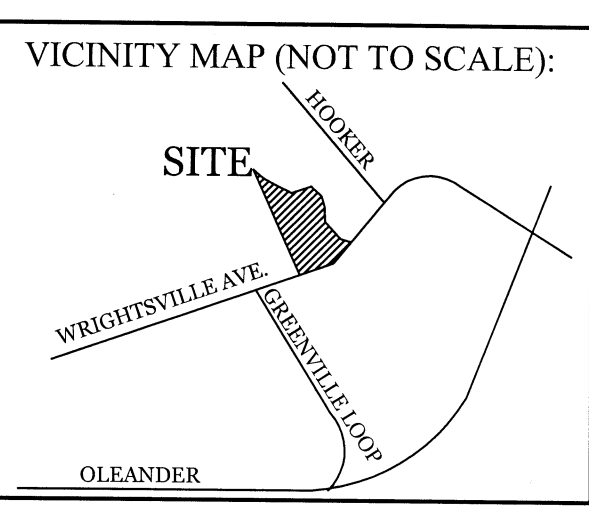
ALL EXISTING PROTECTED TREES NOT IMPACTED BY ESSENTIAL SITE IMPROVEMENTS SHALL BE PRESERVED OR MITIGATED.

EXTERIOR SITE LIGHTING SHALL BE INSTALLED SO AS NOT TO SHINE DIRECTLY ONTO ADJACENT RESIDENTIAL PARCELS.

THE EXISTING MASONRY WALL LOCATED ON THE DEVELOPED PORTION OF THE SITE SHALL BE EXTENDED ACROSS THE REMAINDER OF THE SITE AND SHALL COMPLY WITH THE DESIGN STANDARDS OF THE LAND DEVELOPMENT CODE (LDC). THE NEWLY CONSTRUCTED WALL SHALL BE GENERALLY CONSISTENT WITH THE DESIGN OF AND MATERIALS USED FOR THE EXISTING WALL.

A 5-FOOT SIDEWALK SHALL BE REQUIRED ALONG THE WRIGHTSVILLE AVENUE FRONTAGE.

THE USE OF PINE STRAW AS GROUND COVER SHALL BE PROHIBITED WITHIN TEN (10) FEET OF ANY ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED.



REVISIONS

INTRACOASTAL ENGINEERING, PLLC

5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number P-0662

SITE, GRADING, DRAINAGE, UTILITY, & STORMWATER PLAN FOR WESTPRONG PH-II WILMINGTON, NC

Professional Engineer Seal:

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL
032555
CHARLES D. CAYLER
8-24-16

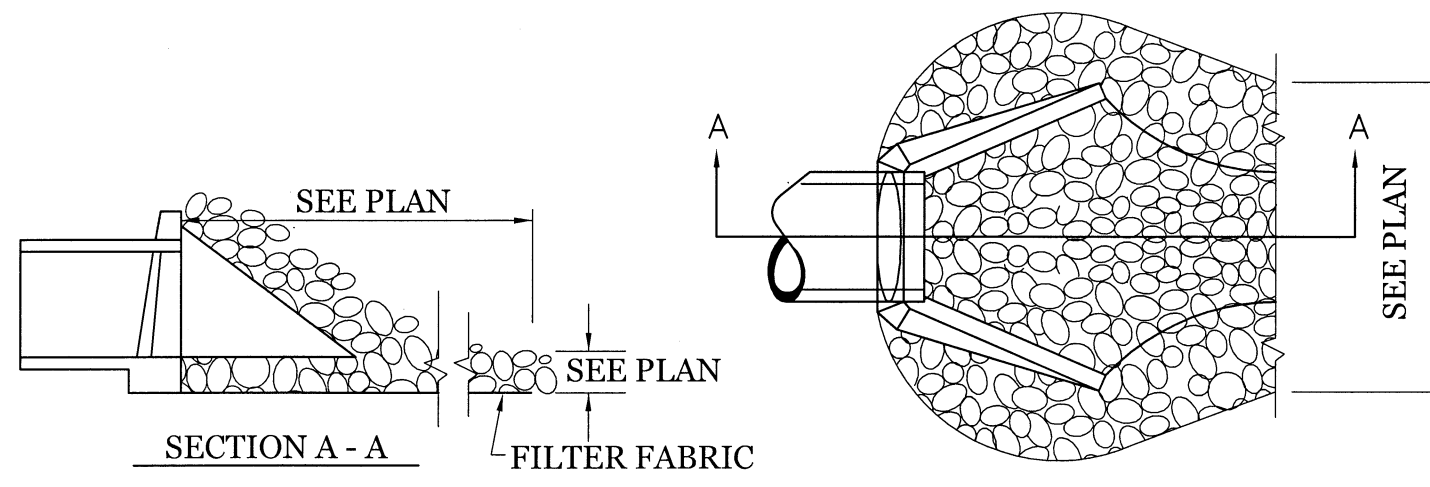
CLIENT INFORMATION:

PENTON DEVELOPMENT LLC
6105 OLEANDER DRIVE SUITE 201
WILMINGTON, NC 28403
(910) 452-1410

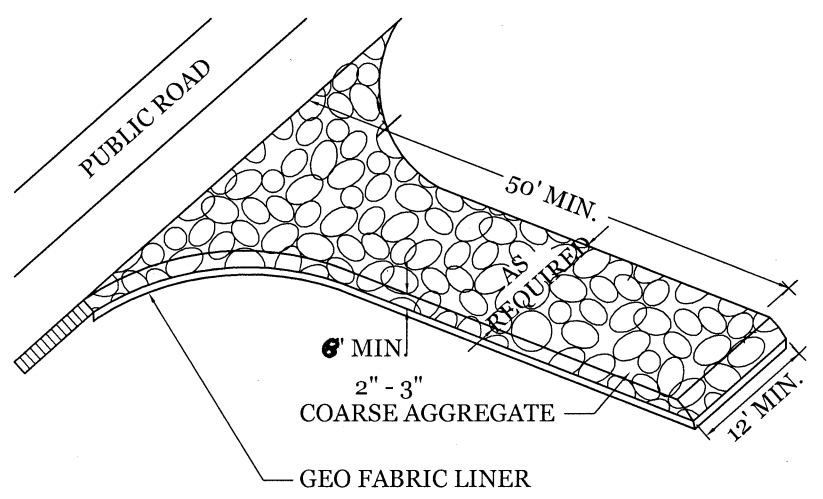
DRAWN: JAE	SHEET SIZE: 24 x 36
CHECKED: CDC	DATE: 8/24/2016
APPROVED: CDC	SCALE: 1" = 40'
PROJECT NUMBER: 2015-044	

DRAWING NUMBER: **C-1**

1 OF 7

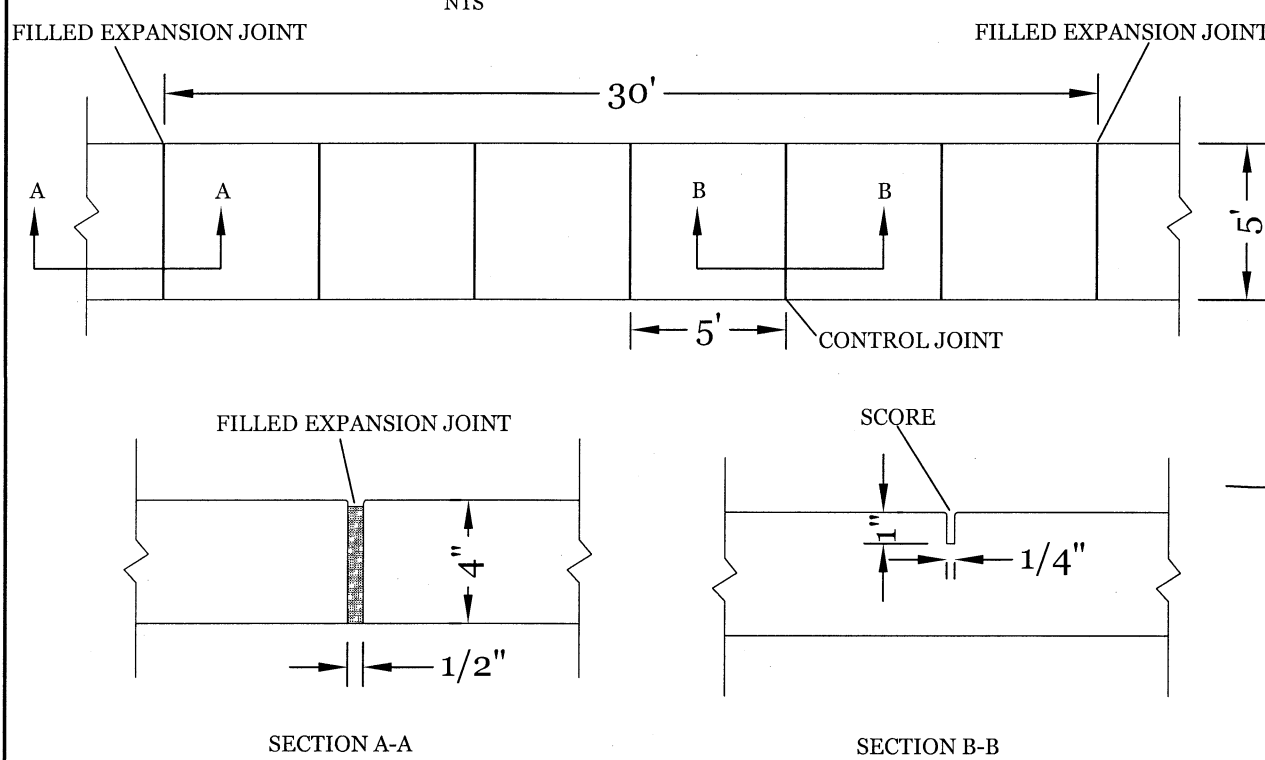


ENERGY DISSIPATOR



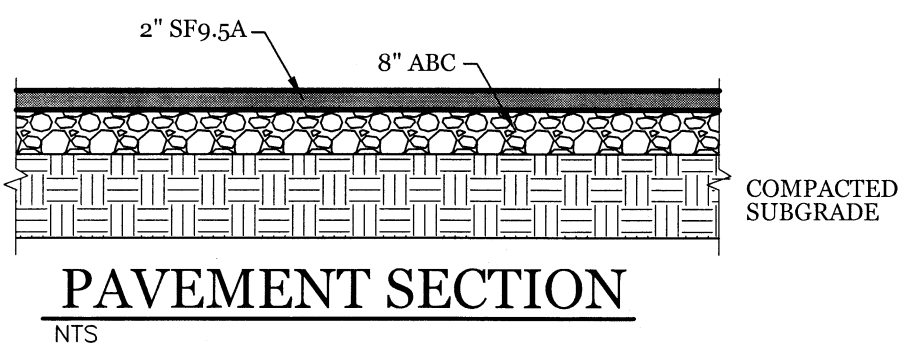
NOTE:
CONSTRUCTION ENTRANCE TO BE 12' OR ENTIRE WIDTH OF ENTRANCE, WHICHEVER IS GREATER.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

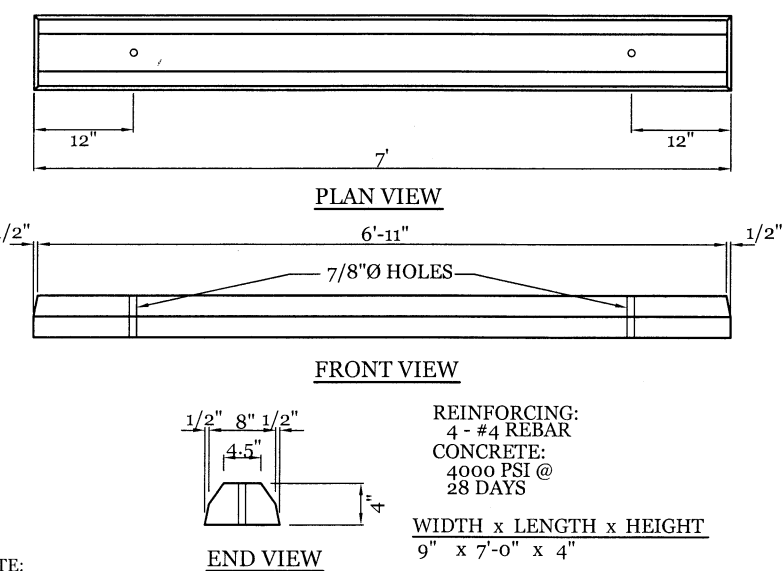


- NOTES:
- JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
 - SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 - MINIMUM SIDEWALK WIDTH TO BE 5' MINIMUM IF PLACED AT BACK OF CURB.
 - CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.
 - MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL.
 - 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
 - MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12".
 - MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1.
 - MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 4%.
 - MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

STANDARD SIDEWALK DETAIL (SD 3-10)

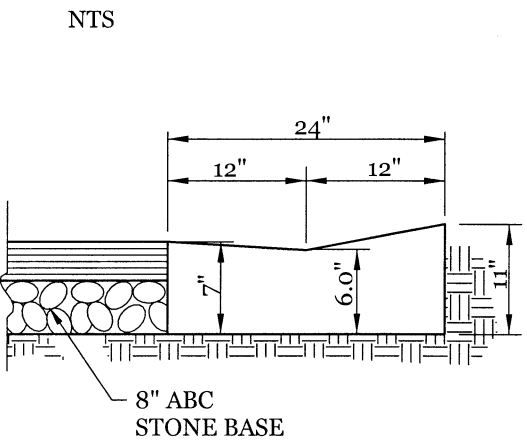


PAVEMENT SECTION



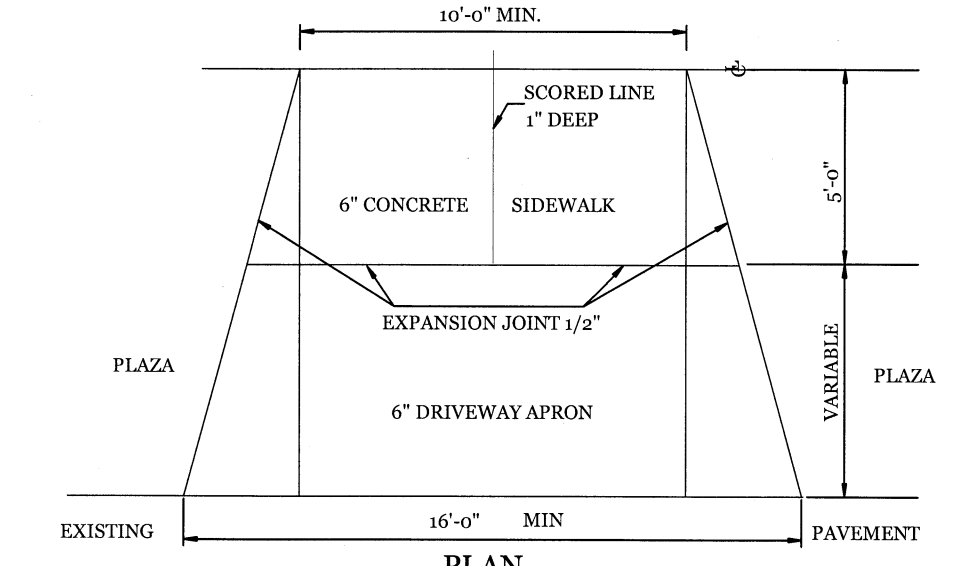
NOTE:
1. CONTRACTOR SHALL INSTALL PER CITY OF WILMINGTON TECHNICAL STANDARD PER SD 15-13
2. CONTRACTOR SHALL INSTALL WHEEL STOP 2-5' FROM SIDEWALK

WHEEL STOP DETAIL

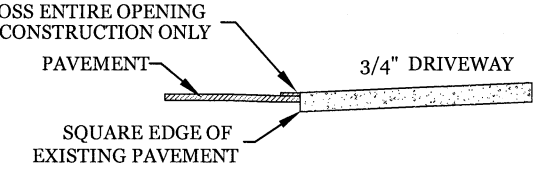


VALLEY CURB DETAIL

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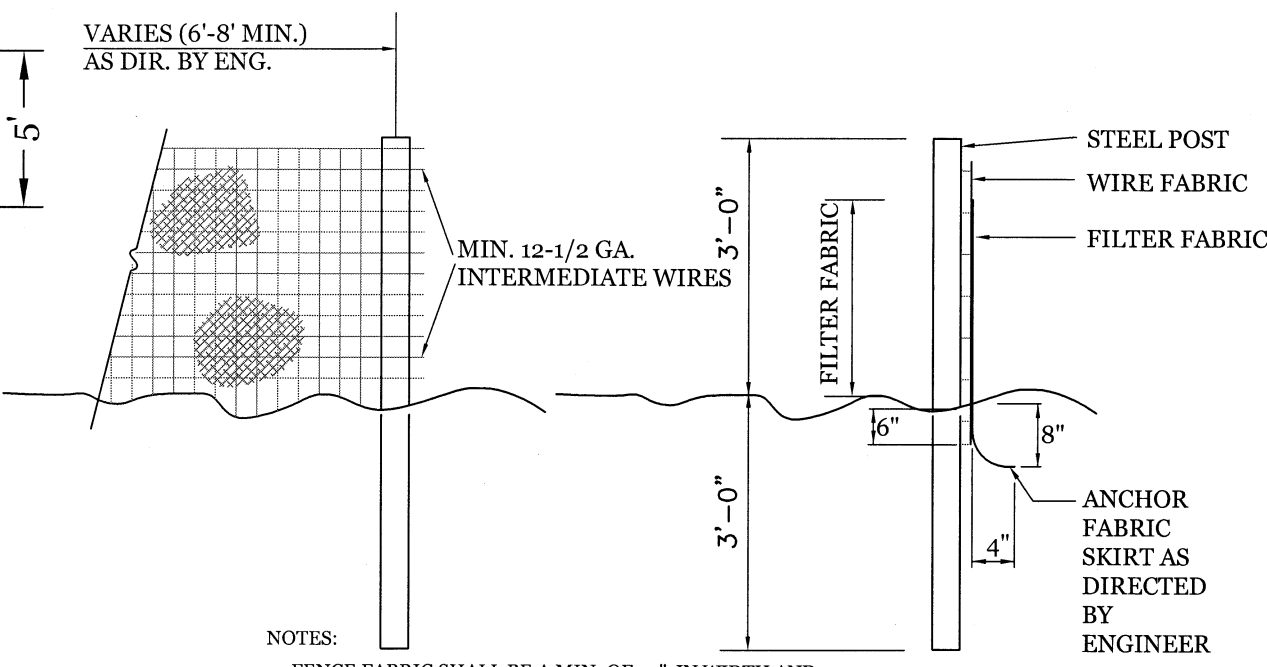


FORMING DETAIL



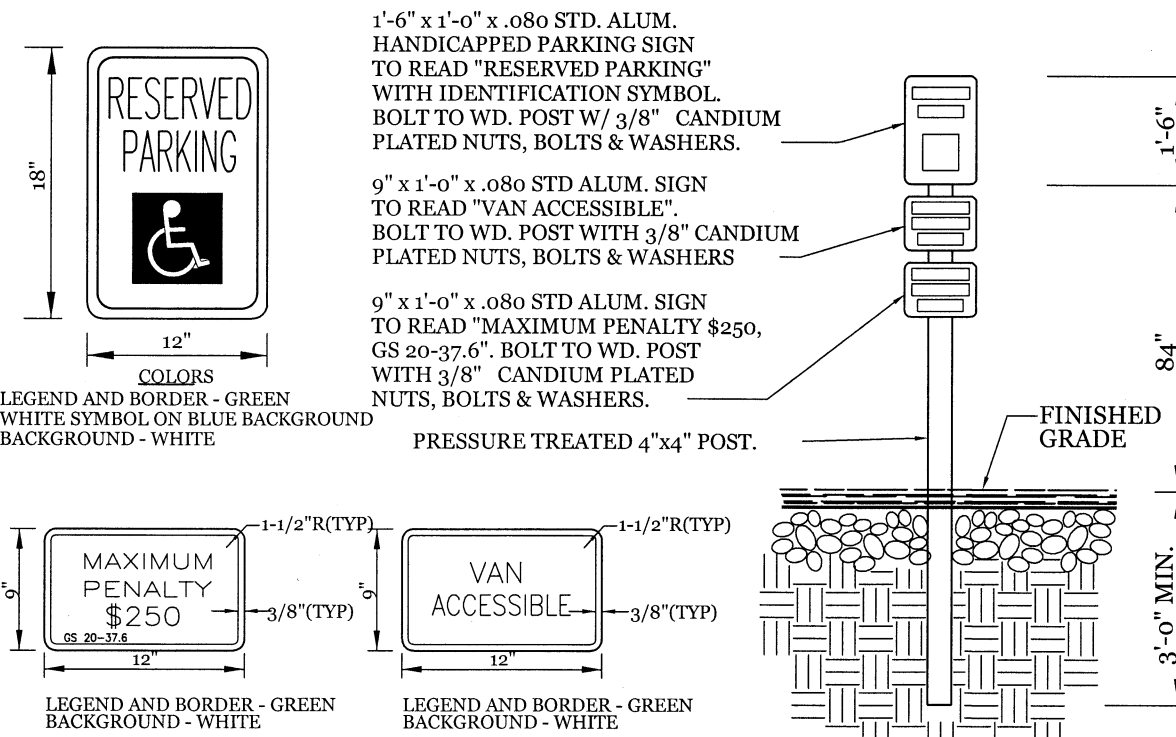
DRIVEWAY STREETS WITH NO CURB

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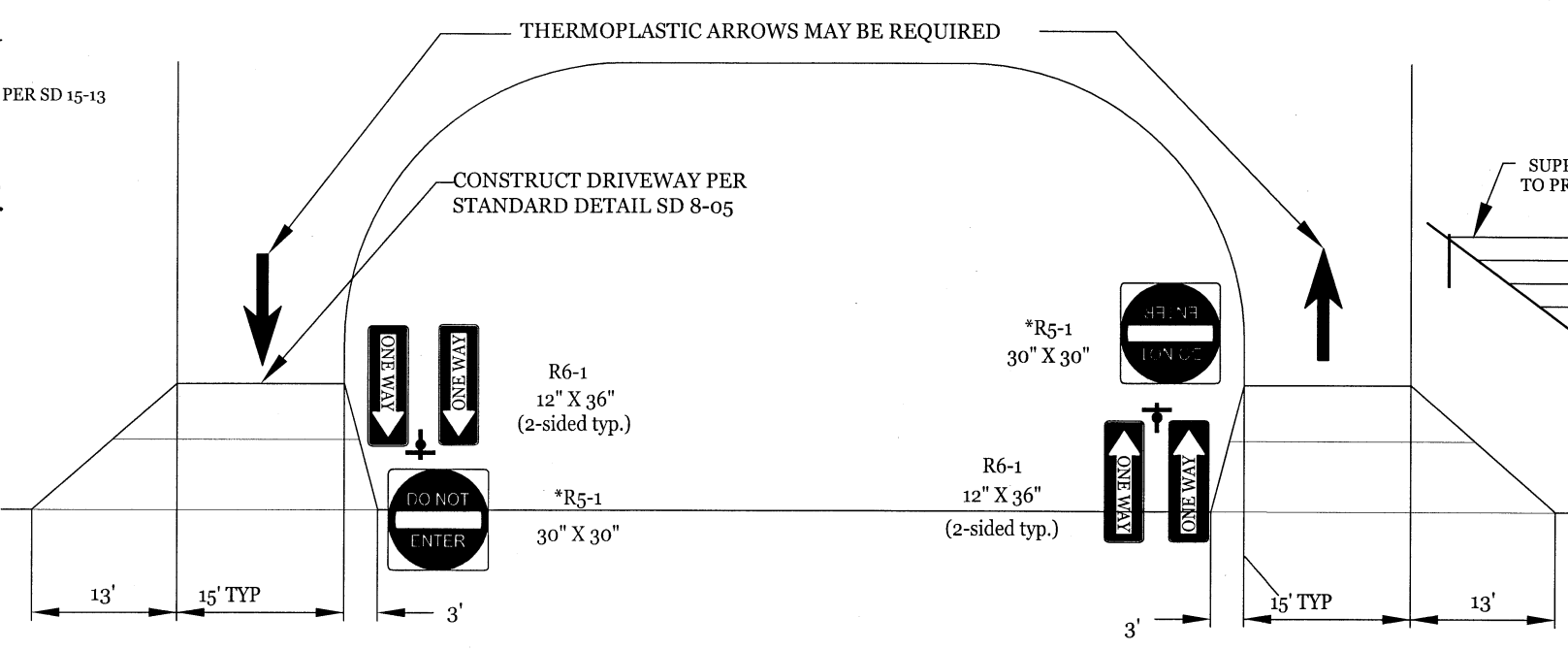
TEMPORARY SILT FENCE

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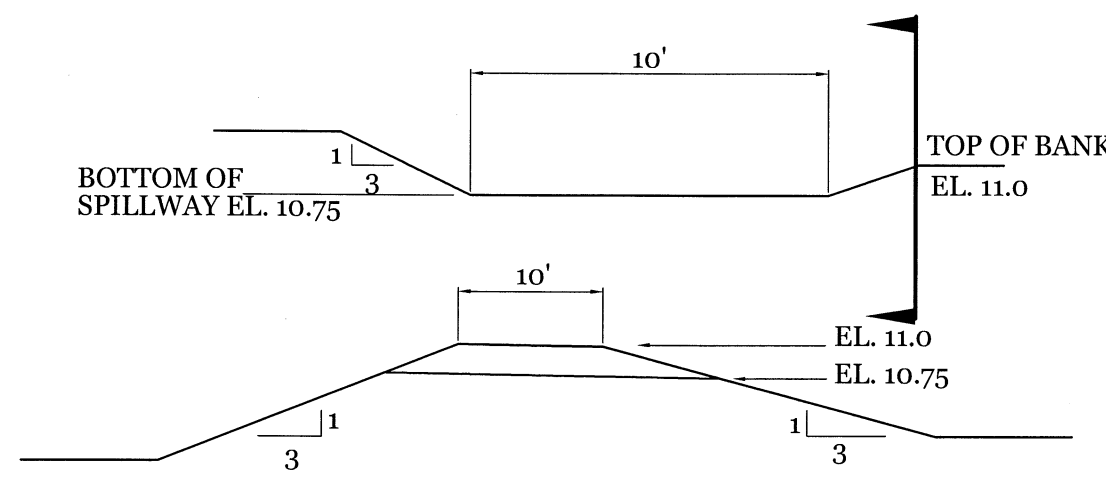


TYPICAL HANDICAPPED SIGN DETAIL

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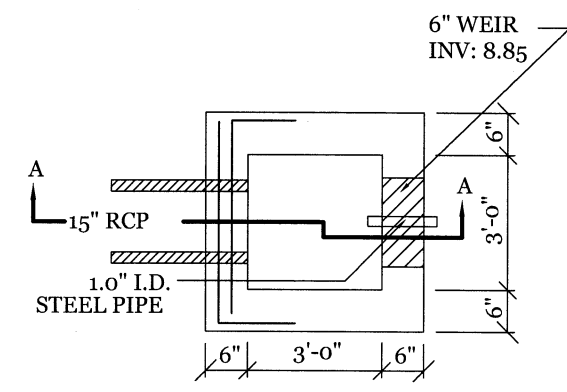


STANDARD ONE-WAY DRIVEWAY DETAIL (no curb on street)



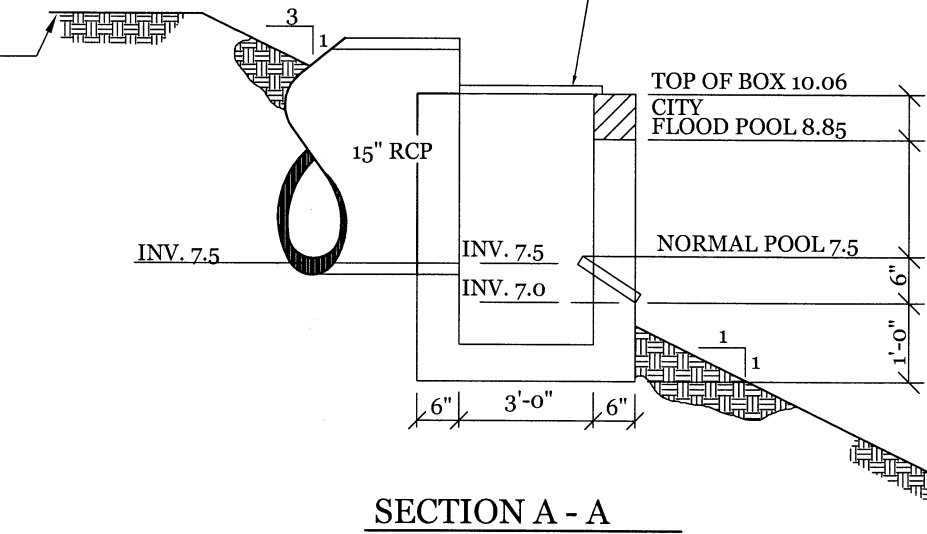
SEDIMENT BASIN EMERGENCY SPILLWAY DETAIL

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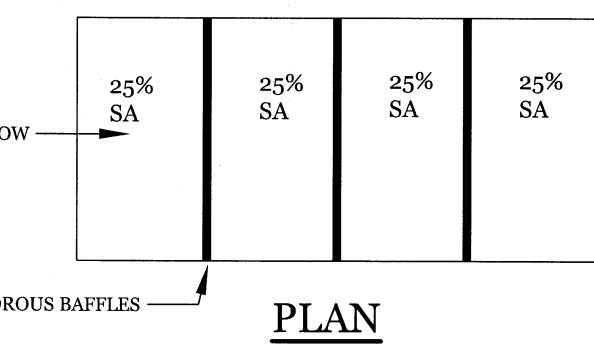
DETENTION POND OUTLET STRUCTURE

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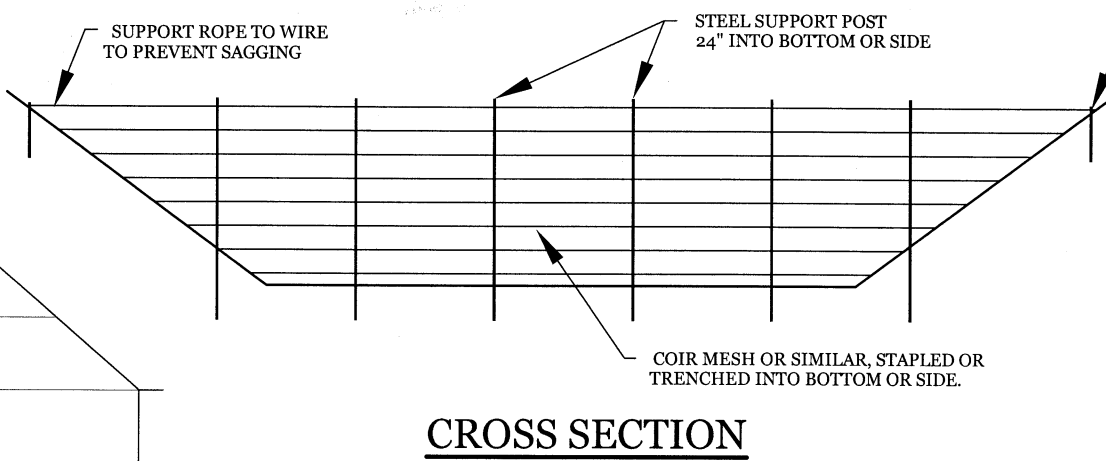
DETENTION POND OUTLET STRUCTURE

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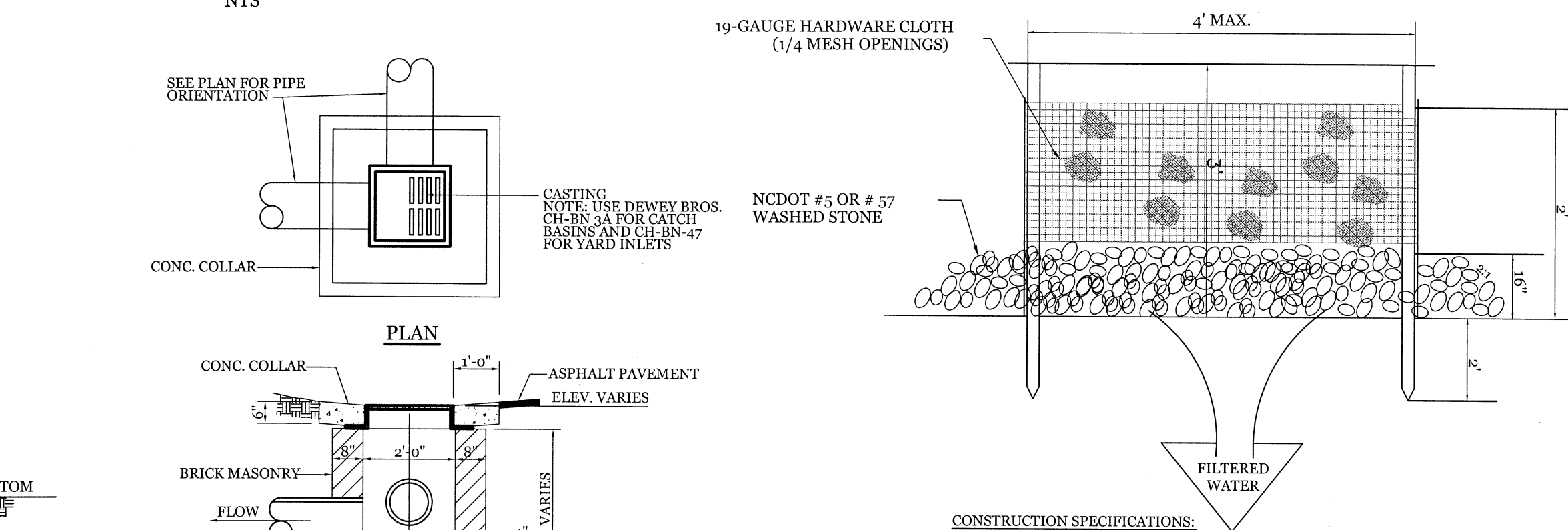


POROUS BAFFLE DETAIL

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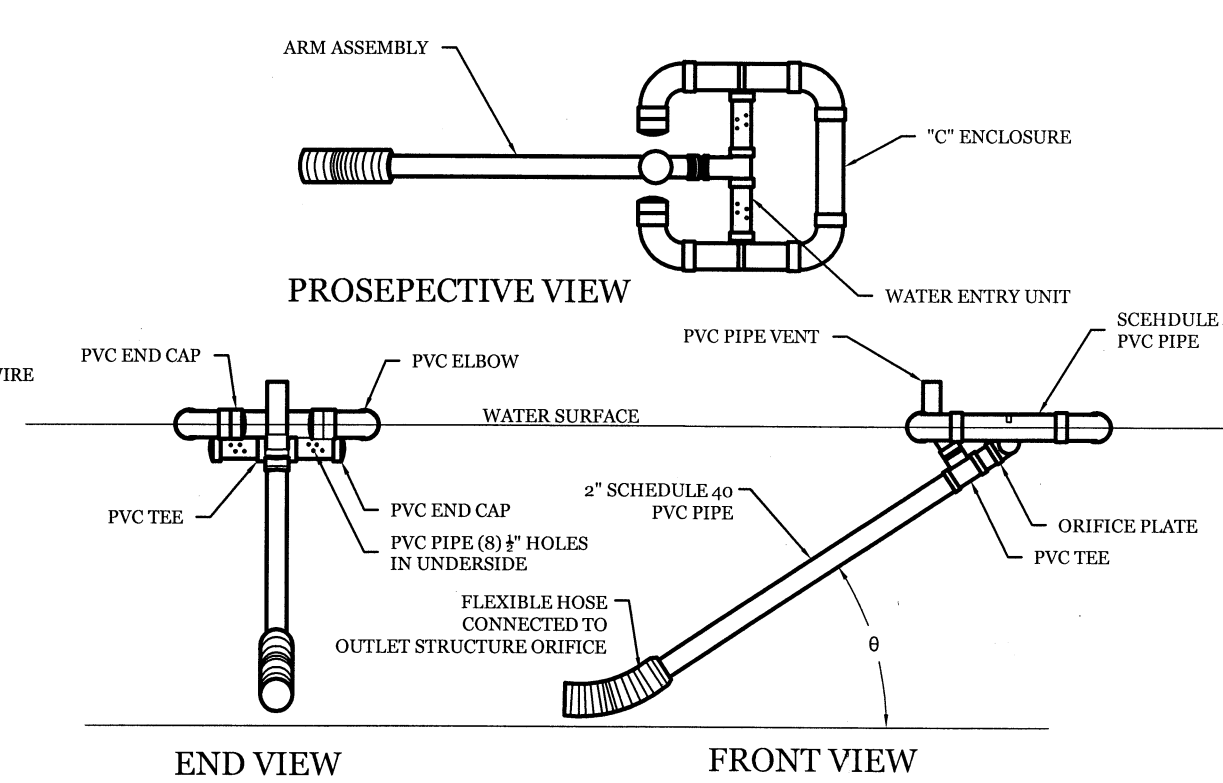


CROSS SECTION



DROP INLET DETAIL

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NOTES:

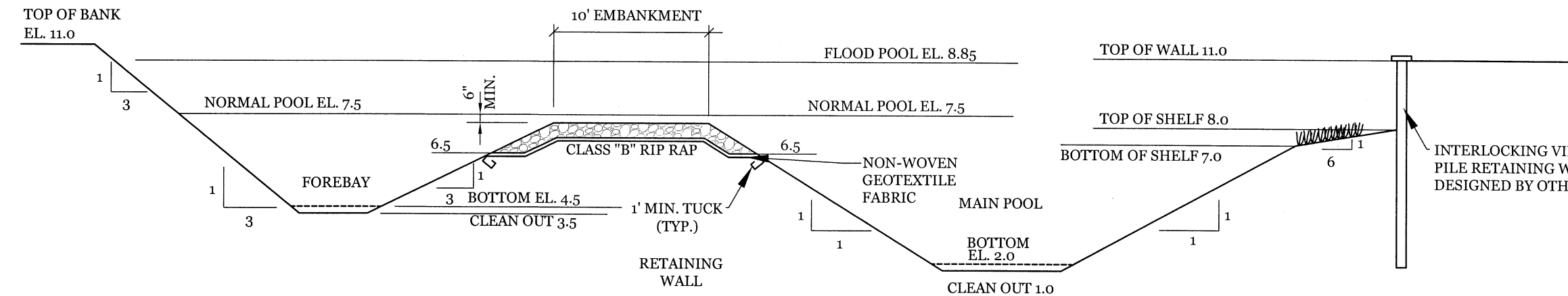
- SKIMMER TO BE USED IN WET PONDS AND REMOVED AFTER SITE IS PERMANENTLY STABLE.

FAIRCLOTH SKIMMER DETAIL

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SITE WORK NOTES:

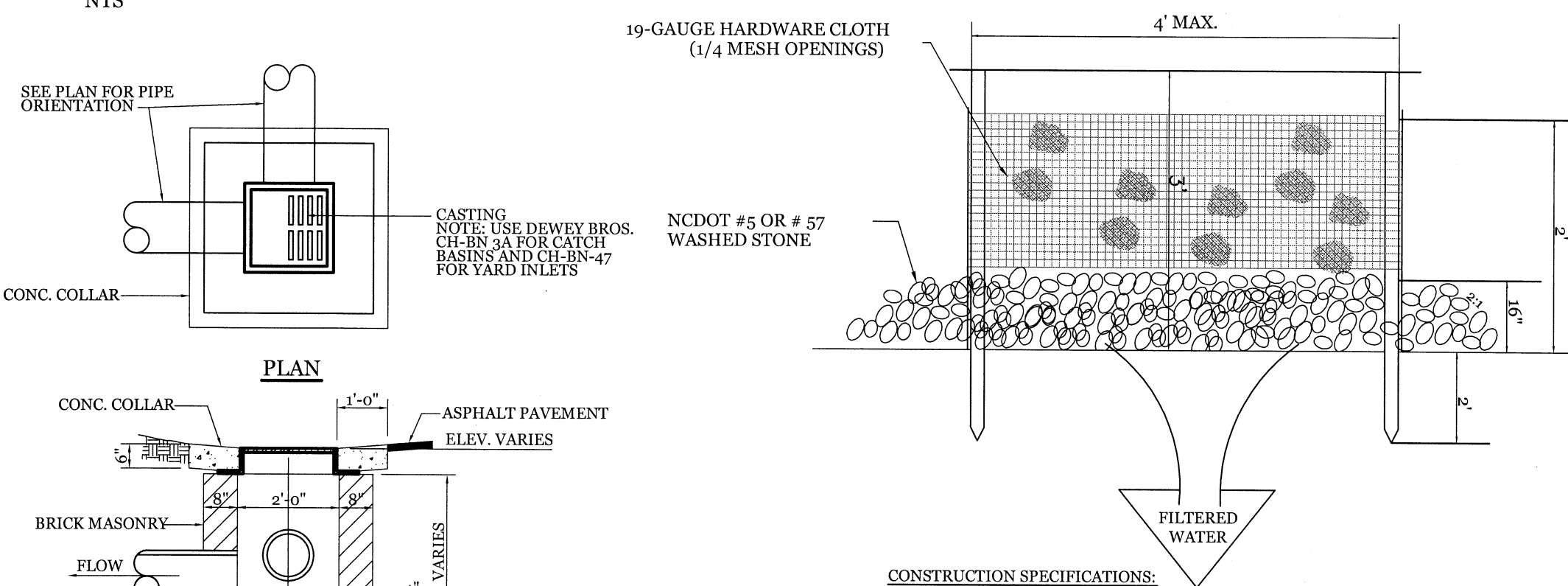
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
- CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
- GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
- MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
- DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
- FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.
- THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
- THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
- CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING SURVEYING PERFORMED BY DANIEL S. NORMILE, P.L.S., L-4589 DATED 12/14/2015
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
- ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CFPWA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
- ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY.
- GEOTECHNICAL ENGINEER TO BE CONSULTED AT CONTRACTORS COST AS NECESSARY.
- ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
- CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINING.
- FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
- ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.



- POND SLOPE TO BE SEEDING IN ACCORDANCE TO SEEDING SPECIFICATIONS
- 6-12 VEGETATED SHELVE TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEED, DUCK POTATO, SWAMP ROSE, BLUE FLAG, & CARDINAL FLOWER, (OR ENGINEER APPROVED ALTERNATIVE)
- VEGETATED SHELVE SHALL BE PLANTED WITH PLUGS OR POTS AT 24" O.C. IN A CHECKERBOARD PATTERN.
- A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES

DETENTION POND & FOREBAY SECTION

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CONSTRUCTION SPECIFICATIONS:

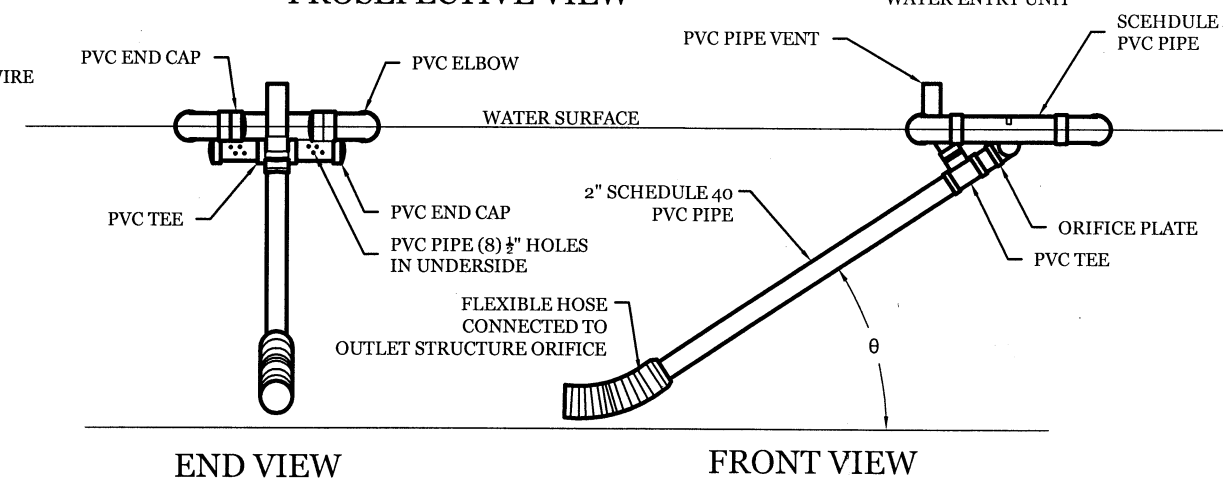
- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
- PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
- COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.

MAINTENANCE:

- INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION

NTS



STORMWATER MANAGEMENT PLAN

APPROVED

CITY OF WILMINGTON

ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

Approved Construction Plan

Name _____ Date _____

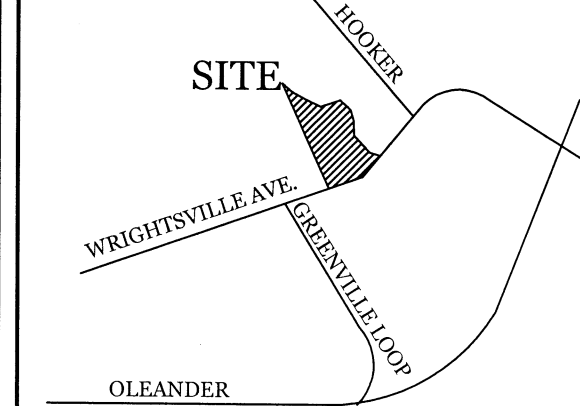
Planning _____

Public Utilities _____

Traffic _____

Fire _____

VICINITY MAP (NOT TO SCALE):

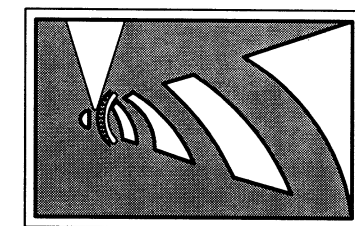


REVISIONS

NO.	DESCRIPTION	DATE

INTRACOASTAL ENGINEERING, PLLC

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Email: Charlie@intracoastalengineering.com
License Number: P-0662



DETAILS

FOR

WESTPRONG

PH-II

WILMINGTON, NC



CLIENT INFORMATION:

PENTON DEVELOPMENT LLC
6105 OLEANDER DRIVE SUITE 201
WILMINGTON, NC 28403
(910) 452-1410

DRAWN: JAE SHEET SIZE: 24 x 36

CHECKED: CDC DATE: 8/24/2016

APPROVED: CDC SCALE: NTS

PROJECT NUMBER: 2015-044

DRAWING NUMBER:

C-3

3 OF 7

DRAWING NUMBER: **L-1**