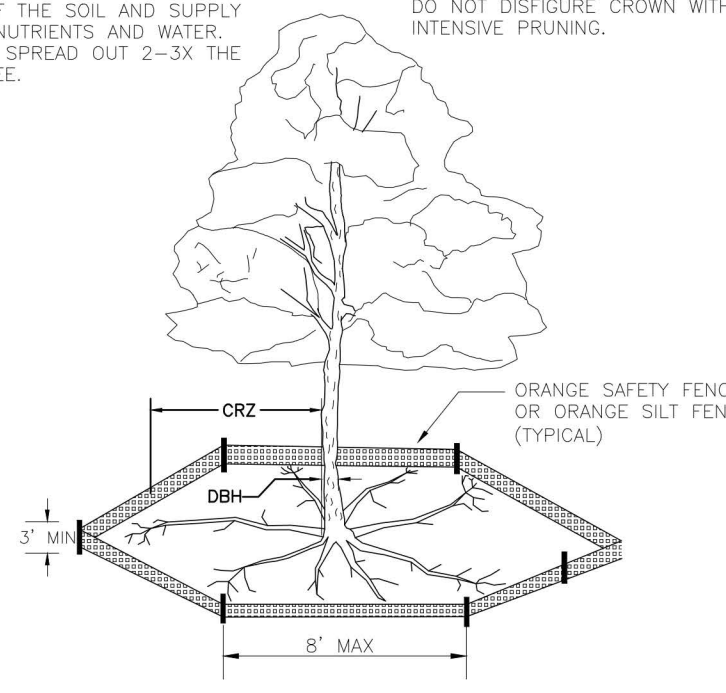


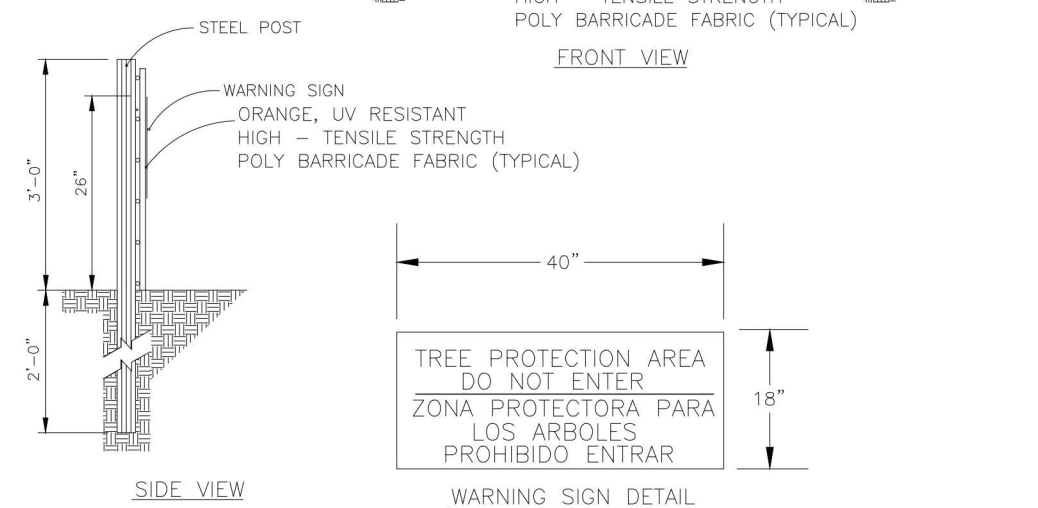
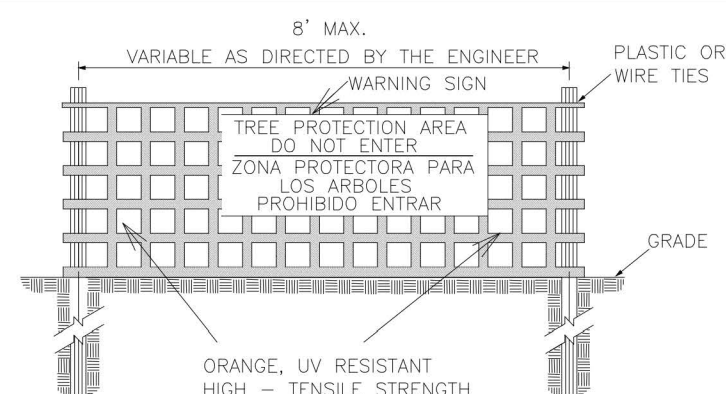
NOTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS GROW. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE: CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.



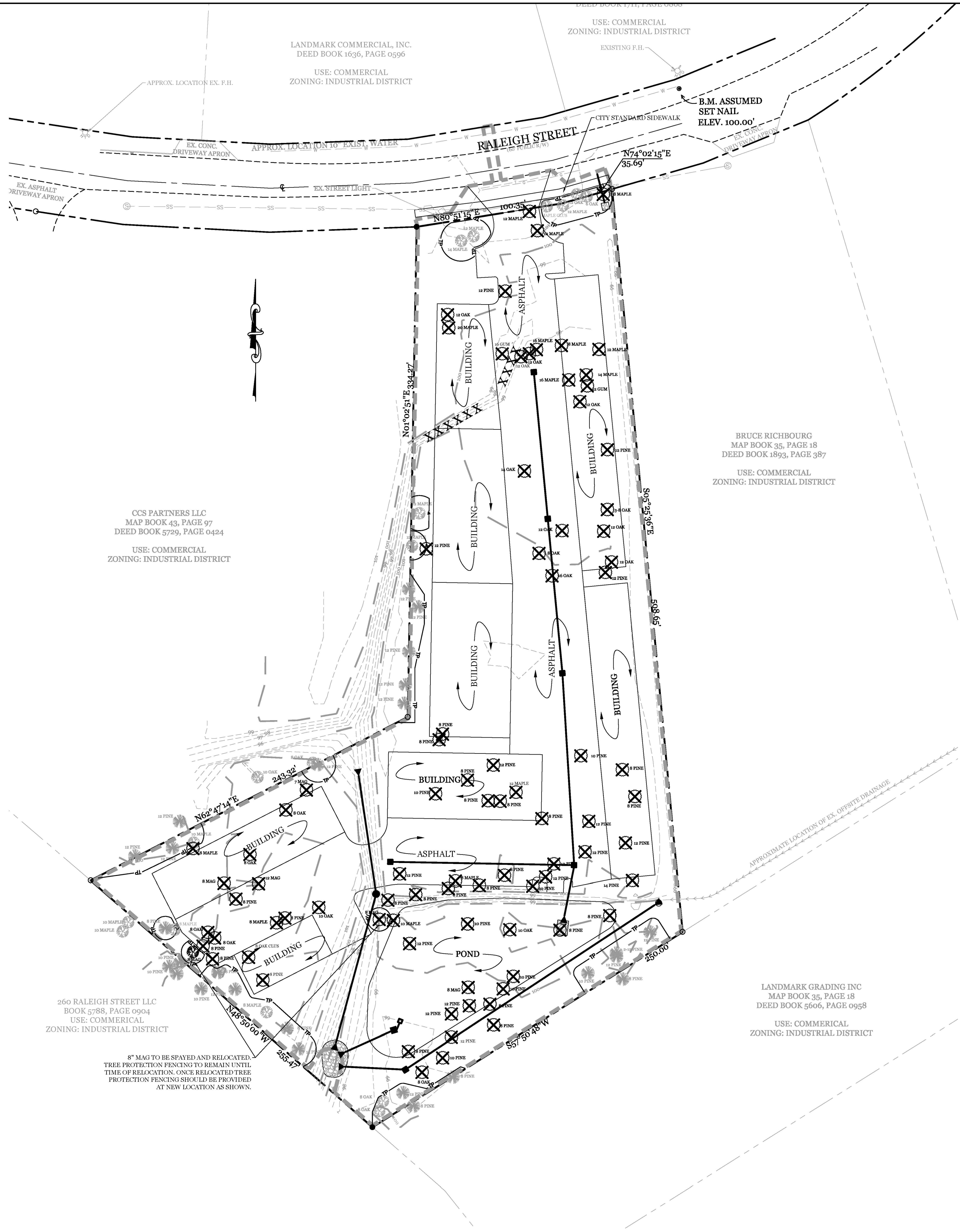
- NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
 5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
 6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

STANDARD DETAIL		<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>	SD 15-09	
DATE: JAN, 2015	TREE PROTECTION DURING CONSTRUCTION			SHEET 1 of 2
DRAWN BY: JSR				
CHECKED BY: RKL, P.E.				
SCALE: NOT TO SCALE				



- NOTES:
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
 4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

STANDARD DETAIL		<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>	SD 15-09	
DATE: JAN, 2015	TREE PROTECTION DURING CONSTRUCTION			SHEET 2 of 2
DRAWN BY: JSR				
CHECKED BY: RKL, P.E.				
SCALE: NOT TO SCALE				



260 RALEIGH STREET LLC
BOOK 5788, PAGE 0904
USE: COMMERCIAL
ZONING: INDUSTRIAL DISTRICT

8" MAG TO BE SPAYED AND RELOCATED. TREE PROTECTION FENCING TO REMAIN UNTIL TIME OF RELOCATION. ONCE RELOCATED TREE PROTECTION FENCING SHOULD BE PROVIDED AT NEW LOCATION AS SHOWN.

LANDMARK GRADING INC
MAP BOOK 35, PAGE 18
DEED BOOK 5606, PAGE 0958
USE: COMMERCIAL
ZONING: INDUSTRIAL DISTRICT

BRUCE RICHBOURG
MAP BOOK 35, PAGE 18
DEED BOOK 1893, PAGE 987
USE: COMMERCIAL
ZONING: INDUSTRIAL DISTRICT

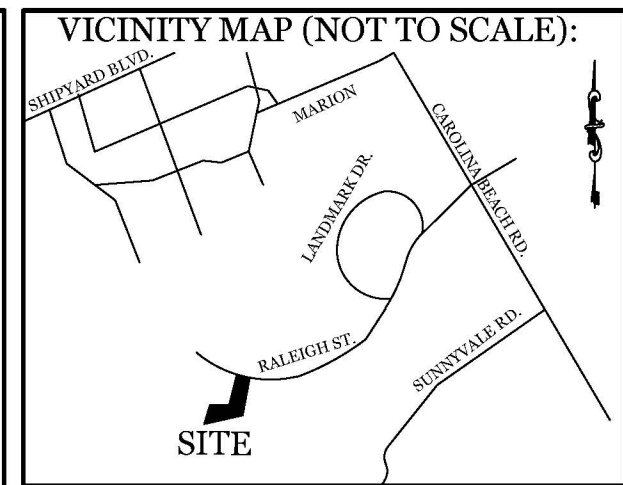
CCS PARTNERS LLC
MAP BOOK 43, PAGE 07
DEED BOOK 5739, PAGE 0424
USE: COMMERCIAL
ZONING: INDUSTRIAL DISTRICT

SITE DATA

PARCEL ID: R06500-007-035-000
CURRENT ZONING: IND (INDUSTRIAL)
CAMA LAND USE CLASSIFICATION: URBAN
PROJECT ADDRESS: 304-A RALEIGH ST. WILMINGTON, NC 28412
CURRENT OWNER: ROBERTS JAMES R KIONA P 6040 MOUNT CARMEL PARKE WILMINGTON, NC 28412
TOTAL ACREAGE IN PROJECT BOUNDARY: 122,843 S.F. (± 2.82 ac.)
TOTAL DISTURBED AREA: ±2.8 ACRES
EXISTING ONSITE IMPERVIOUS AREAS: SITE IS VACANT
SOIL TYPES: LE (LEON SAND) 74.9%
MU (MURVILLE FINE SAND) 21.8%
Ur (URBAN LAND) 3.3%
(Per the USDA websoil survey map)

NOTES:

1. EXISTING SURVEY DATA FROM SURVEY BY ARNALD CARSON SURVEYING, PC.
2. THIS LOT IS LOCATED IN ZONE X AS PER FIRM COMMUNITY # 370171, MAP# 3720312500K, DATED: AUGUST 28, 2018.
3. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES.
4. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
5. TREE PROTECTION SIGNAGE SHALL BE ADDED ALONG THE LIMITS OF DISTURBANCE ADJACENT TO TREES EVERY 100' TO PROTECT TREES ADJACENT TO THE CONSTRUCTION SITE.
6. NO SIGNIFICANT TREES ARE PROPOSED TO BE REMOVED.
7. NO WETLANDS EXIST ON SITE.



REVISIONS	

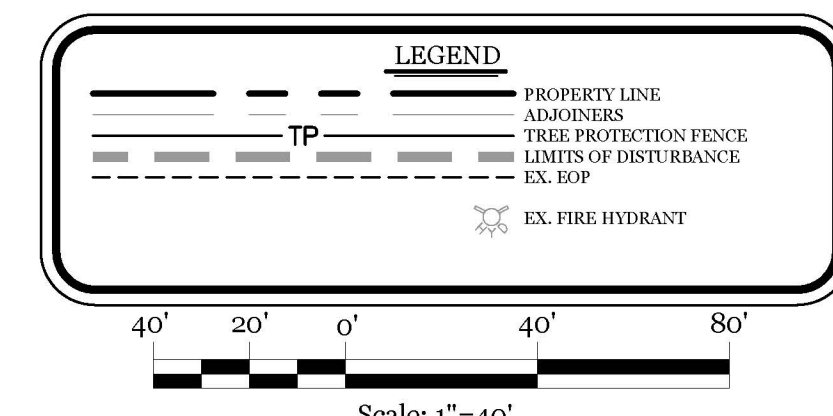
INTRACOASTAL ENGINEERING, PLLC
5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number P-0662

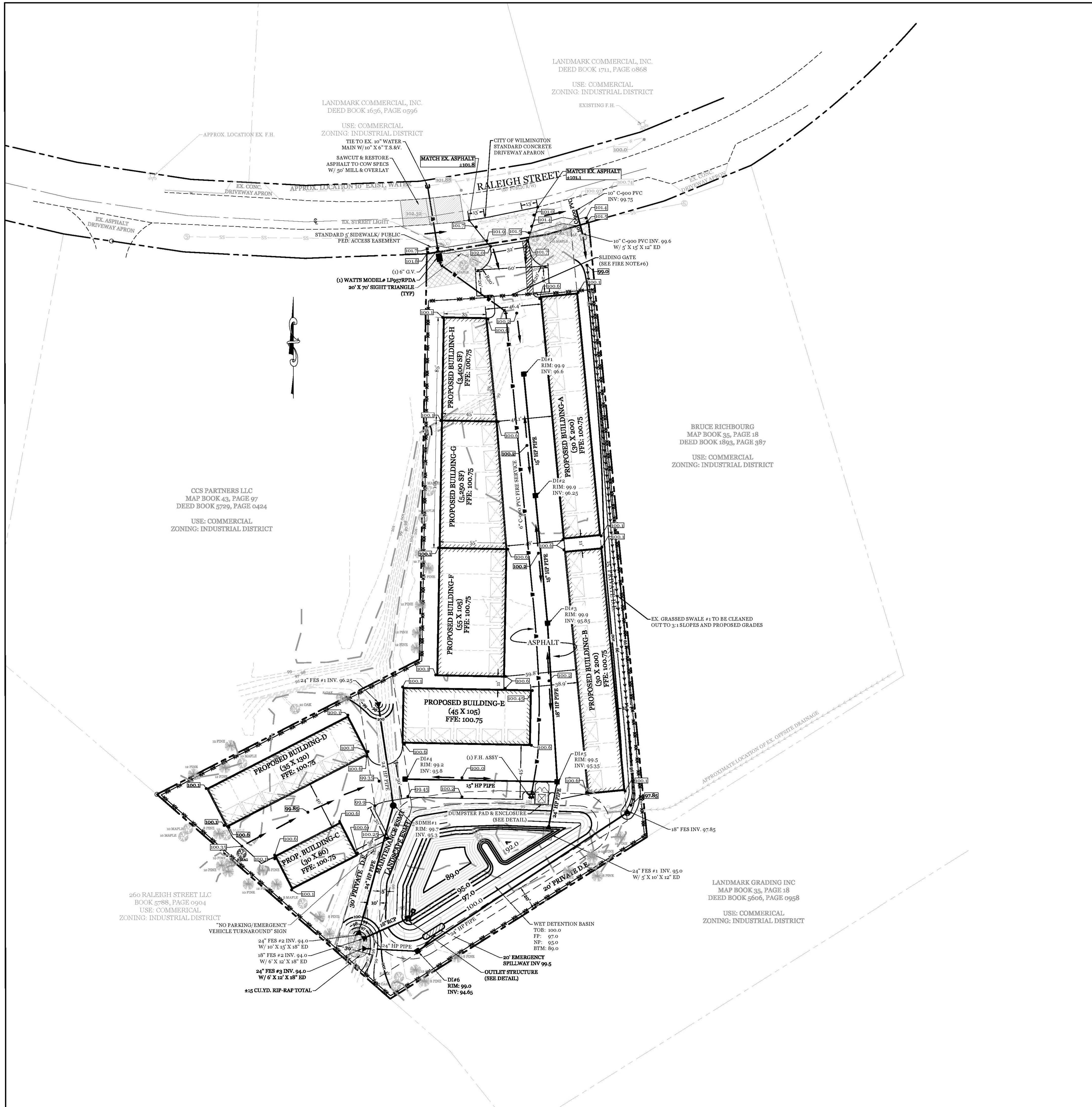
EXISTING CONDITIONS, DEMOLITION, TREE REMOVAL & PROTECTION PLAN
FOR
RALEIGH ST. STORAGE
WILMINGTON, NORTH CAROLINA

CLIENT INFORMATION:
Stephen B Conway
6248 Towles Road
Wilmington, NC 28409
Phone: 910-538-9737

DRAWN:	JAE	SHEET SIZE:	24 X 36
CHECKED:	CDC	DATE:	7/14/2021
APPROVED:	CDC	SCALE:	1" = 40'
PROJECT NUMBER:	2020-039		

DRAWING NUMBER: **C-0** 1 OF 7





SITE DATA

PARCEL ID: R06500-007-035-000
 CURRENT ZONING: IND (INDUSTRIAL)
 CAMA LAND USE CLASSIFICATION: URBAN
 PROJECT ADDRESS: 304-A RALEIGH ST. WILMINGTON, NC 28412
 CURRENT OWNER: ROBERTS JAMES R KIONA P 6040 MOUNT CARMEL PARKE WILMINGTON, NC 28412

TOTAL ACREAGE IN PROJECT BOUNDARY: 122,843 S.F. (± 2.82 ac.)
 NUMBER OF BUILDINGS: 8
 BUILDING SIZE: 37,500 GFA TOTAL (SEE PLAN FOR INDIVIDUAL BLDG. SIZES)
 BUILDING HEIGHT: 14'
 BUILDING SETBACKS:
 FRONT: REQUIRED= 50' PROPOSED= 50'
 SIDE: REQUIRED= 0' PROPOSED= 15'
 REAR: REQUIRED= 0' PROPOSED= 15'

CALCULATION FOR BUILDING COVERAGE:
 PROPOSED COVERAGE: 37,500 S.F. ÷ 122,843 S.F. = 30.5%

PROPOSED IMPERVIOUS AREAS:
 BUILDINGS: 37,500 S.F.
 ASPHALT DRIVES: 33,165 S.F.
 TOTAL: 70,665 S.F. (57.3%)

PROPOSED OFFSITE IMPERVIOUS AREAS:
 CONCRETE SIDEWALK/DRIVE APRON: 1,510 S.F.

PARKING REQUIRED: (37,500 SF WAREHOUSE):
 MIN: 1 SPACE/1000 S.F. = 38 SPACES
 MAX: 150% of Minimum = 57 SPACES

PARKING PROVIDED: 49 SPACES (1 Inside each unit)
 BICYCLE PARKING REQUIRED: (MIN. 5 PER 25-125 VEHICLE SPACES)
 REQUIRED: 5 SPACES
 PROVIDED: 49 SPACES (1 Inside each unit)

FOUNDATION PLANTINGS: N/A (BUILDINGS HAVE ROLL-UP DOORS ALONG ALL FRONTAGES)

STREETYARD REQUIREMENT: 25' (12.5' MIN & 37.5' MAX WIDTH)
 REQUIRED: 136' - 32' = 104 LF X 25' = 2,600 S.F.
 PROVIDED: 2,634 S.F.

PROPOSED SEWER AND WATER DEMAND: N/A

ESTIMATED TRIP GENERATION: (Per Trip Generation Manual, 10th Edition)
 37,500 SF WAREHOUSE (ITE CODE 150)
 AM PEAK: 8 PM PEAK: 9 DAILY: 87

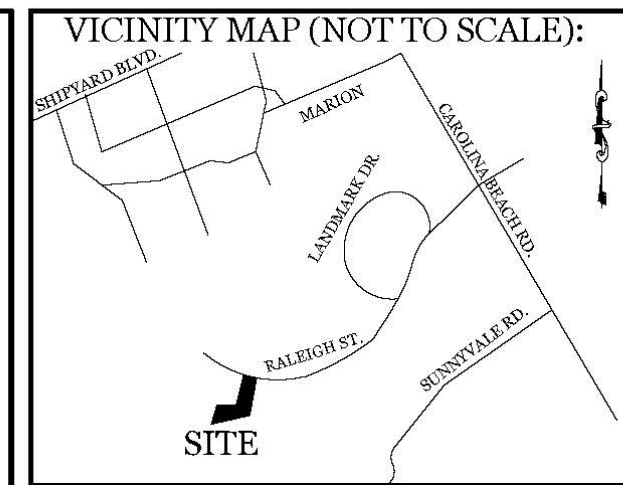
- DEVELOPMENT NOTES:**
1. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE.
 2. PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & NEW HAMPSHIRE COUNTY REGULATIONS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL NCR11 AT 811 OR 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.
 4. SOLID WASTE DISPOSAL BY PRIVATE DUMPSTER SERVICE.
 5. RUNOFF FROM ALL IMPERVIOUS SURFACES, INCLUDING ROOF DRAINAGE, TO BE DIRECTED TO STORMWATER POND. ROOF RUNOFF TO BE DIRECTED TO THE FRONT OF THE BUILDINGS OR ROOF DRAINAGE SYSTEM DESIGNED TO CONNECT TO PIPED SYSTEM TO POND.
 6. NO SITE LIGHTING IS PROPOSED AT THIS TIME.
- GENERAL TRAFFIC NOTES:**
1. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS OFF THE R/W TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD 15-13 & SD 11-3 COPW TECH STDS]
 3. ALL SIGNS AND PAVEMENT MARKINGS OFF RIGHT OF WAY ARE TO BE MAINTAINED TO MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. [DETAIL SD 15-13 & SD 11-3 COPW TECH STDS]
 4. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5899 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
 5. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.
 6. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 7. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
 8. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.
 9. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- FIRE & SAFETY NOTES:**
1. CONSTRUCTION TYPE II-B (COMMERCIAL)
 2. BUILDINGS WILL NOT BE SPRINKLED
 3. PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS
 4. ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
 5. HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE.
 6. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
 7. HYDRANTS MUST BE WITHIN 300' OF THE BUILDING(S), MEASURED AS THE TRUCK DRIVES.
 8. FIRE HYDRANTS TO BE INSTALLED PER CITY OF WILMINGTON ORDINANCE AND CPWA STANDARDS.
 9. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
 10. PROPOSED DRIVEWAY GATE TO BE SIREN ACTIVATED.
- UTILITY NOTES:**
1. EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM CAPE FEAR PUBLIC UTILITY AUTHORITY PUBLIC MAINS.
 2. ALL PROPOSED UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
 3. ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CPWA TECHNICAL SPECIFICATIONS & STANDARDS.
 4. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOCHR OR ASSE.
 5. IF CONTRACTOR DESIRES CPWA 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.
 6. 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 METERS TO AID IN FUTURE LOCATION OF FACILITIES.
 7. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL NCR11 AT 811 OR 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.

Approved Construction Plan
 Date: 7/23/21
 # 2021021
 SWP # 2021032
 PO, CW, RC, MB, BM

LEGEND

- PROPERTY LINE
- ADJOINERS
- RUNOFF DIRECTION
- EX. FOR
- PROP. CHAIN LINK FENCE
- EXISTING FIRE HYDRANT
- STREETYARD

Scale: 1" = 40'



REVISIONS

NO.	DATE	DESCRIPTION

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 & STORMWATER PLAN

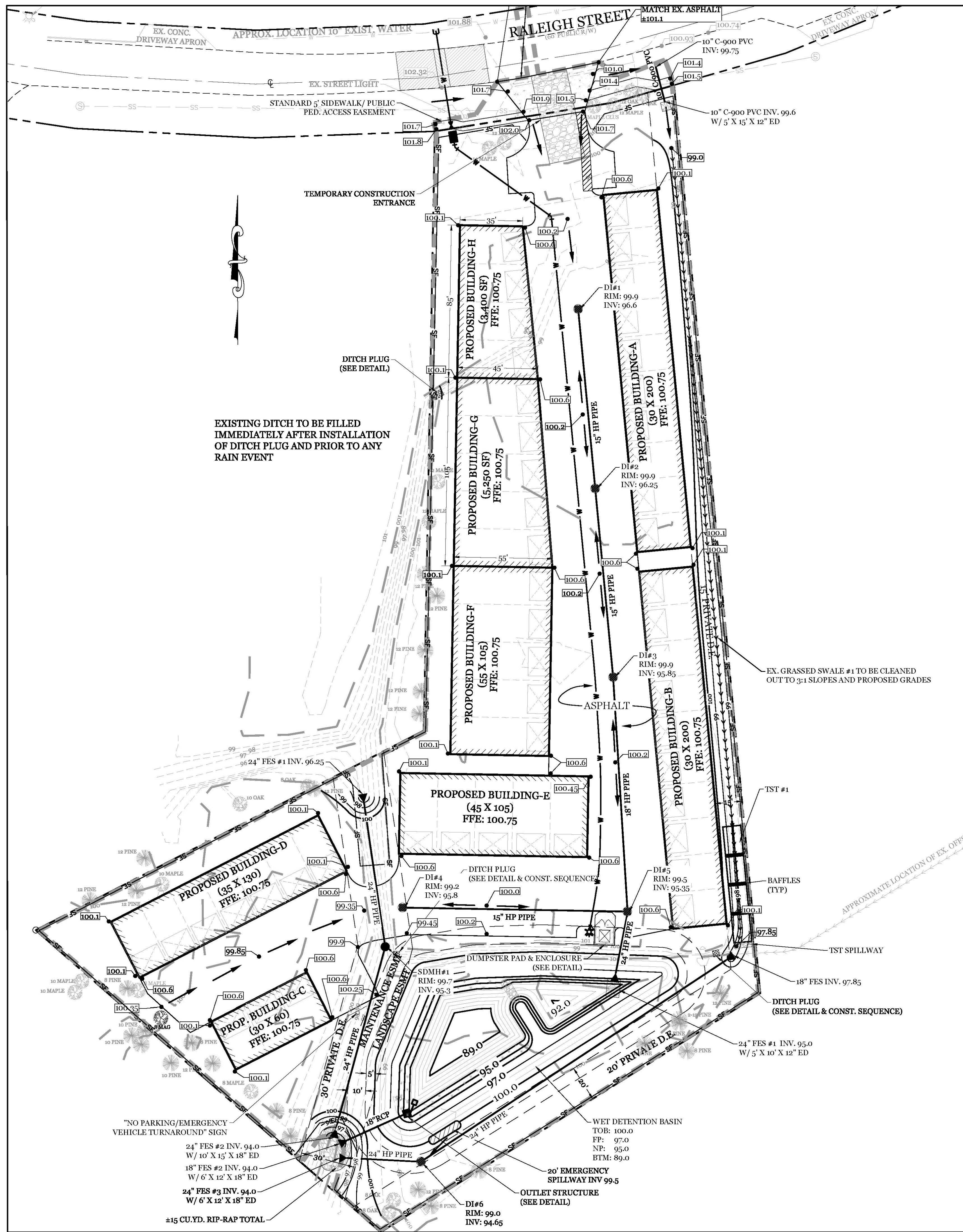
FOR

RALEIGH ST. STORAGE

WILMINGTON, NORTH CAROLINA

CLIENT INFORMATION:
 Stephen B Conway
 6248 Towles Road
 Wilmington, NC 28409
 Phone: 910-538-9737

DRAWN: JAE	SHEET SIZE: 24 X 36
CHECKED: CDC	DATE: 7/14/2021
APPROVED: CDC	SCALE: 1" = 40'
PROJECT NUMBER: 2020-039	
DRAWING NUMBER: C-1	2 OF 7



EXISTING DITCH TO BE FILLED IMMEDIATELY AFTER INSTALLATION OF DITCH PLUG AND PRIOR TO ANY RAIN EVENT

NORTH CAROLINA TEMPORARY GRASSING DETAIL

SEEDING MIXTURE SPECIES	APPLICATION RATE
LATE WINTER & EARLY SPRING: Rye (grain) Annual Lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) <i>Omit annual Lespedeza when duration of temporary cover is not to extend beyond June</i>	100 (lb/acre) 50 (lb/acre)
SUMMER: German Millet In the Piedmont and Mountains, a small-stemmed sungrass may be substituted at a rate of 50 (lb/acre)	40 (lb/acre)
FALL: Rye (grain)	120 (lb/acre)

NORTH CAROLINA PERMANENT GRASSING DETAIL

SEEDING MIXTURE SPECIES	APPLICATION RATE
FALL & WINTER: Tall Fescue (blend of two or three improved varieties) Rye (grain)	200 (lb/acre) 25 (lb/acre)
SPRING & SUMMER: Pensacola Bahiagrass Sericea Lespedeza Common Bermudagrass German Millet Tall Fescue	50 (lb/acre) 30 (lb/acre) 10 (lb/acre) 10 (lb/acre) 50 (lb/acre)

SEEDING DATES
FALL & WINTER: January - April
SPRING & SUMMER: April 1 - July 15

SOIL AMENDMENTS:
Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer.

MAINTENANCE:
Fertilize according to soil tests or apply 40 lb/acre nitrogen in January or February, 40 lb in September and 40 lb in November, from a 12-4-8, 16-4-8, or similar turf fertilizer. Avoid fertilizer applications during warm weather, as this increases stand losses to disease. Reseed, fertilize, and mulch damaged areas immediately. mow to a height of 2.5-3.5 inches as needed.

MULCH:
apply 4,000 lb/acre straw. anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

SYMBOL	GROUND STABILIZATION CRITERIA	
	STABILIZATION TIMEFRAME	STABILIZATION EXCEPTIONS
[Symbol: Perimeter dikes, ditches and slopes]	7 Days	None
[Symbol: High Quality Water (HQW) Zones]	7 Days	None
[Symbol: Slopes Steeper than 3:1]	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
[Symbol: Slopes 3:1 or flatter]	14 Days	7-days for slopes greater than 50 ft. in length
[Symbol: All other areas with slopes flatter than 4:1]	14 Days	None (except for perimeters & HQW Zones)

BUILDING WASTE HANDLING:
- NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS
- DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.
- EARTHEN MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.
- CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.

INSPECTIONS:
- SAME WEEKLY REQUIREMENTS
- SAME RAIN GAUGE & INSPECTIONS AFTER 0.50" RAIN EVENT.
- INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"
- INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.
- RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST.
- ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.

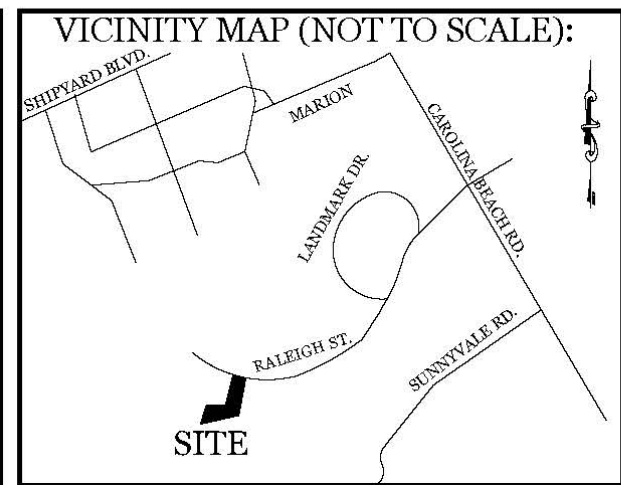
SEDIMENT BASINS:
- OUTLET STRUCTURES MUST BE WITHDRAWN FROM BASIN SURFACES UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.
- USE ONLY DWG APPROVED FLOCCULANTS.

SITE DATA

PARCEL ID:	R06500-007-035-000
CURRENT ZONING:	IND (INDUSTRIAL)
CAMA LAND USE CLASSIFICATION:	URBAN
PROJECT ADDRESS:	304-A RALEIGH ST. WILMINGTON, NC 28412
CURRENT OWNER:	ROBERTS JAMES R KIONA P 6040 MOUNT CARMEL PARKE WILMINGTON, NC 28412
TOTAL ACREAGE IN PROJECT BOUNDARY:	122,843 S.F. (± 2.82 ac.)
TOTAL DISTURBED AREA:	2.8 ac.

- ### MAINTENANCE PLAN:
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
 - ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF 2-3 INCH STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
 - SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION, SEDIMENT TRAP Baffles, AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
 - CHECK SEDIMENT BASIN AND Baffles WEEKLY & AFTER EACH RAINFALL EVENT. REMOVE SEDIMENT FROM TRAP & Baffles AND RESTORE TO ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT 1/2 THE DESIGN VOLUME. REPAIR / REPLACE Baffles IF TORN, COLLAPSED, OR INEFFECTIVE.
 - DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
 - FAIRCLOTH SKIMMER TO BE ROUTINELY CHECKED FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS CLOGGING THE WATER ENTRY ORIFICES. PULL SKIMMER TO SIDE OF BASIN AND HAND REMOVE SEDIMENT AND DEBRIS TO RESTORE FLOW TO ORIGINAL STATE.

- ### CONSTRUCTION SEQUENCE:
- CONSTRUCTION OF SITE TO START WITH INSTALLATION OF CONSTRUCTION ENTRANCE AND SILT FENCE ALONG ALL LOCATIONS PER PLANS. UPON INSTALLATION OF SILT FENCE, TREES SHOULD BE REMOVED IN LOCATIONS AS NECESSARY. PROPOSED 24" PIPE AT EXISTING CHANNEL TO BE INSTALLED DURING REMOVAL OF TREES AND IN ORDER TO ACCESS THE REAR PORTION OF THE SITE. ALL EROSION CONTROL MEASURES CORRESPONDING TO PIPE INSTALLATION TO BE PROVIDED AT THIS TIME. ALL SLOPED AREAS SHOULD BE SEDED IN ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 21 CALENDAR DAYS OF ANY PHASE OF CONSTRUCTION. ALL OTHER AREAS MUST BE STABILIZED WITHIN 15 WORKING DAYS. CONTRACTOR TO FOLLOW NPDES STABILIZATION REQUIREMENTS PER TABLE ON THIS SHEET AS WELL. MOST STRINGENT REQUIREMENT TO BE MET.
- GENERAL CLEARING AND GRADING OF THIS SITE WILL NOT BE DONE UNTIL THE TEMPORARY SILT FENCE & CONSTRUCTION ENTRANCE HAS BEEN INSTALLED.
 - NO CUT SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).
 - NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION.
 - INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE & SEDIMENT BASINS. CONTRACTOR TO BE FAMILIAR WITH USACE GENERAL PERMIT CONDITIONS FOR ROAD CROSSINGS. SPECIFIC CONSTRUCTION METHODS MAY BE REQUIRED ABOVE AND BEYOND WHAT IS SPECIFIED IN THIS PLAN. INSTALL ALL SECONDARY EROSION CONTROL MEASURES, SUCH AS INLET PROTECTION AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
 - ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION TO BE CLEANED WHEN HALF FULL.
 - A 1" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
 - MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
 - MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.



REVISIONS

NO.	DATE	DESCRIPTION

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

SEDIMENTATION & EROSION CONTROL PLAN

FOR

RALEIGH ST. STORAGE

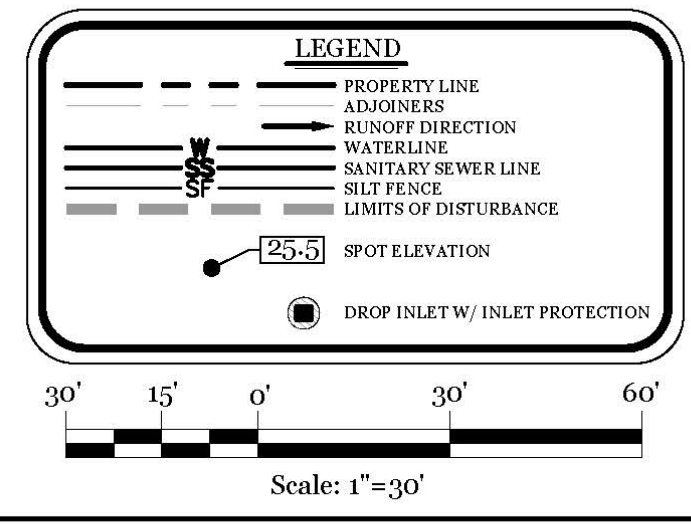
WILMINGTON, NORTH CAROLINA

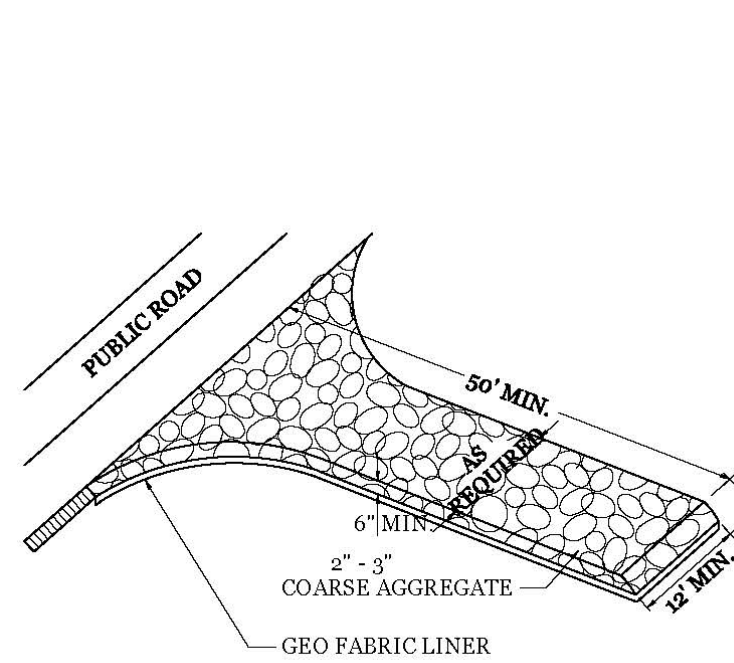
CLIENT INFORMATION:

Stephen B Conway
6248 Towles Road
Wilmington, NC 28409
Phone: 910-538-9737

DRAWN:	JAE	SHEET SIZE:	24 X 36
CHECKED:	CDC	DATE:	7/14/2021
APPROVED:	CDC	SCALE:	1" = 30'
PROJECT NUMBER:	2020-039		

DRAWING NUMBER: **C-2** 3 OF 7

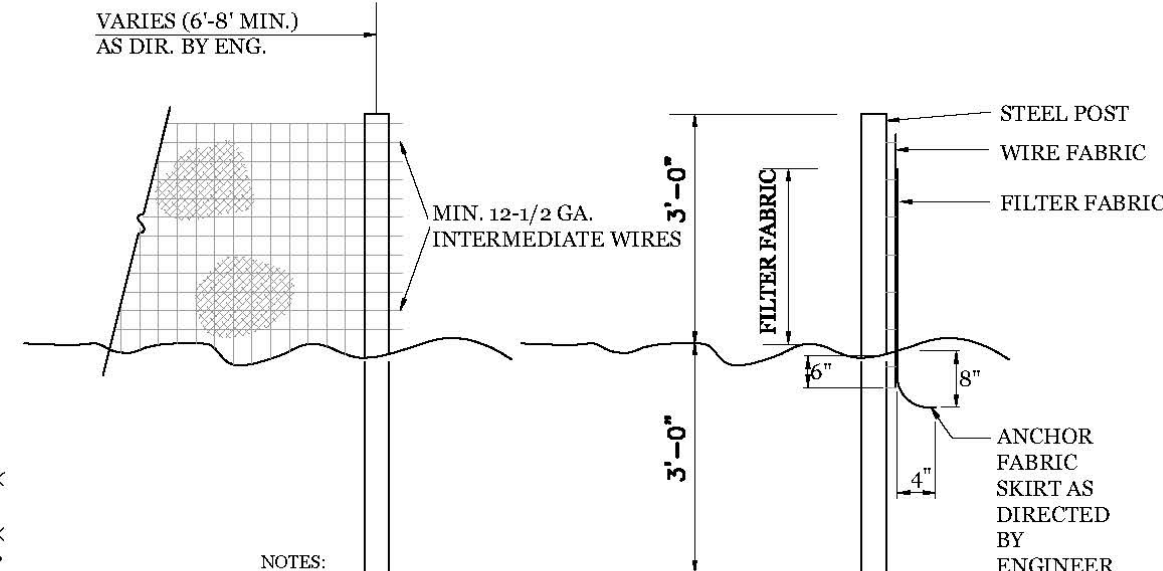




NOTE: CONSTRUCTION ENTRANCE TO BE 12" OR ENTIRE WIDTH OF ENTRANCE, WHICHEVER IS GREATER.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NTS



NOTES:
 1. FENCE FABRIC SHALL BE MIN. OF 26" IN WIDTH AND SHALL HAVE A MIN. OF SIX LINE WIRES WITH 12" SPACING.
 2. FABRIC SHALL BE FOR EROSION CONTROL AND MIN. OF 36" IN WIDTH. FABRIC SHALL BE FASTENED ADEQUATELY TO THE WIRE FABRIC AS DIRECTED BY THE ENGINEER.
 3. STEEL POST SHALL BE 1/2" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

TEMPORARY SILT FENCE

NTS

CONSTRUCTION SPECIFICATIONS:

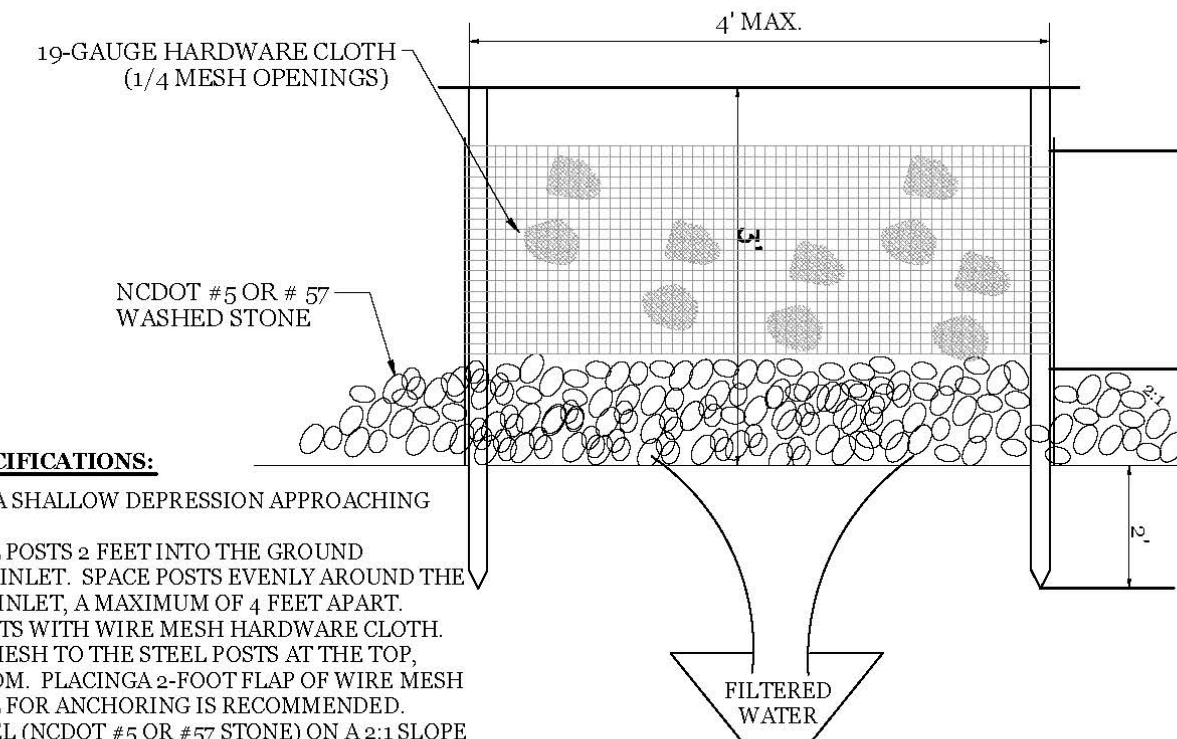
- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL 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 (1/2 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.

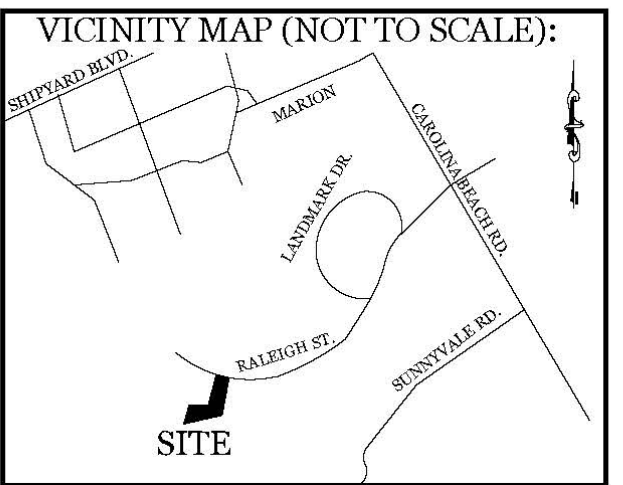
HARDWARE CLOTH AND GRAVEL INLET PROTECTION

NTS



SITE WORK NOTES:

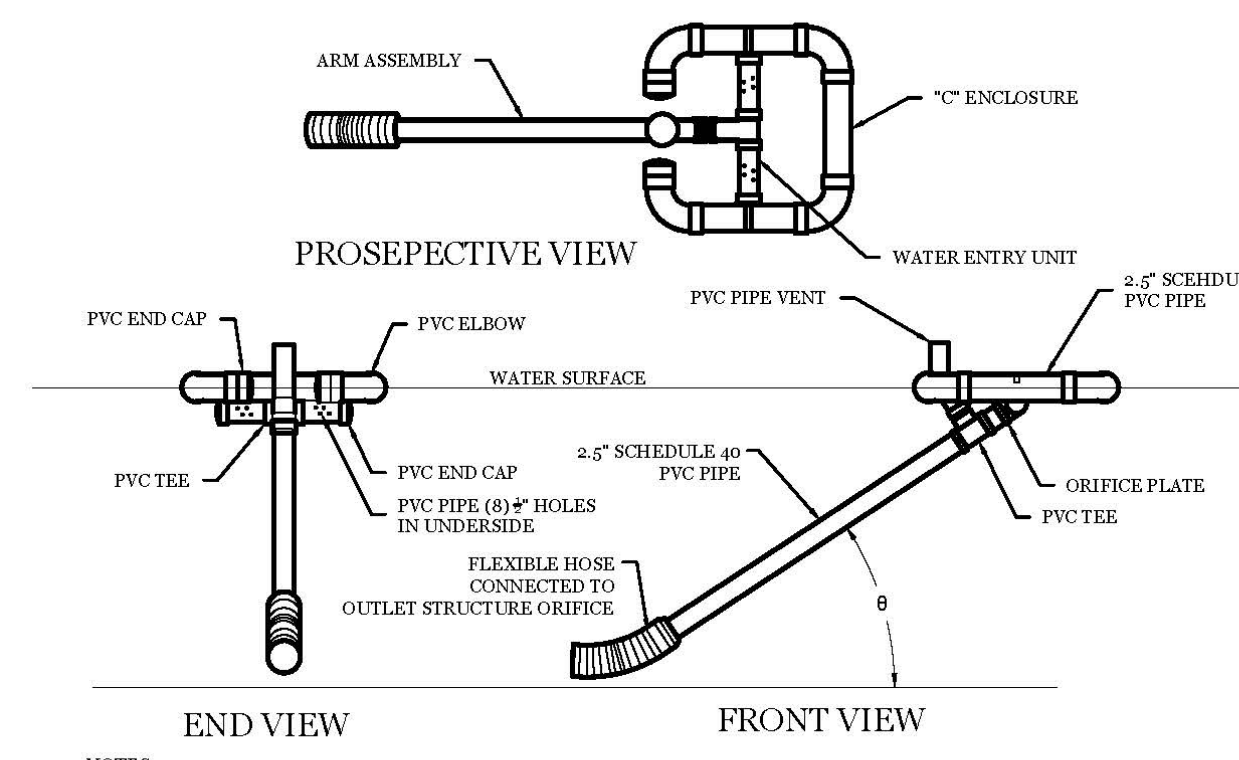
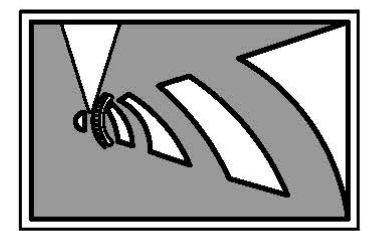
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
- CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
- GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE 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 "NO 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.
- 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 CPUSA 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 CONTRACTOR'S 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 ENTRAINED.
- 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.



REVISIONS

NO.	DESCRIPTION

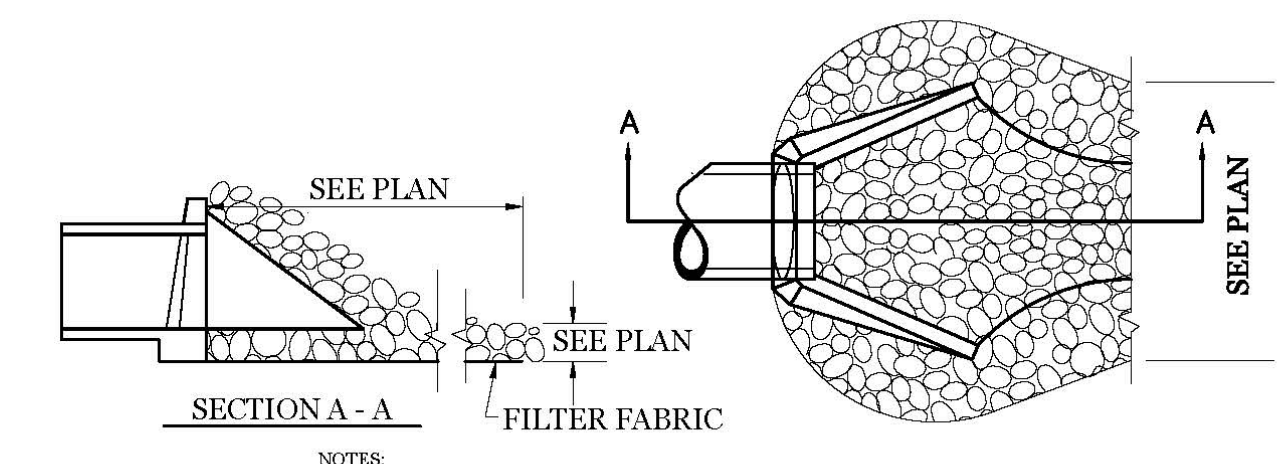
INTRACOASTAL ENGINEERING, PLLC
 5725 Oleander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: Charlie@intracoastalengineering.com
 License Number P-0662



NOTES:
 1. SKIMMER TO BE USED IN WET PONDS AND REMOVED AFTER SITE IS PERMANENTLY STABLE.

FAIRCLOTH SKIMMER DETAIL

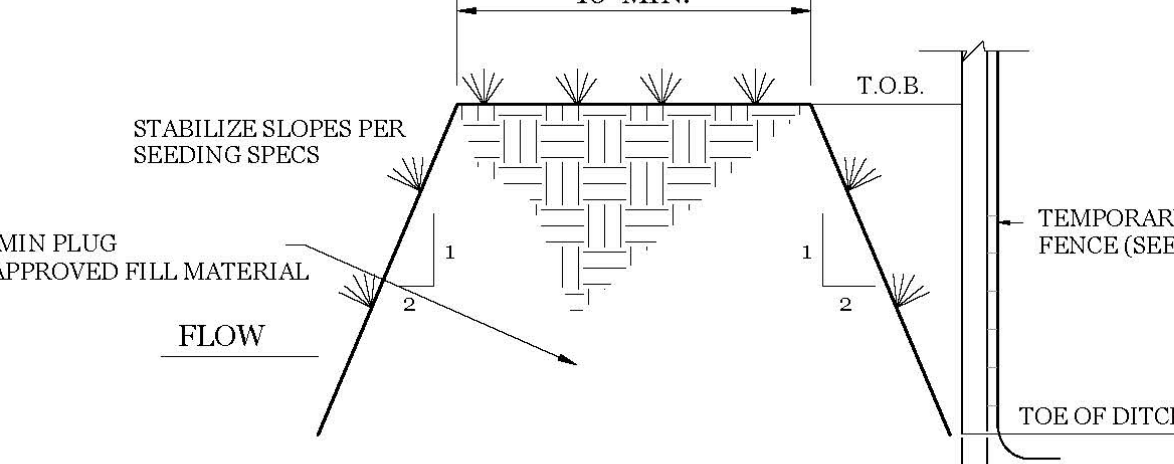
NTS



NOTES:
 1. CLASS "B" RIP RAP TO BE USED FOR ALL ENERGY DISSIPATOR AREAS.

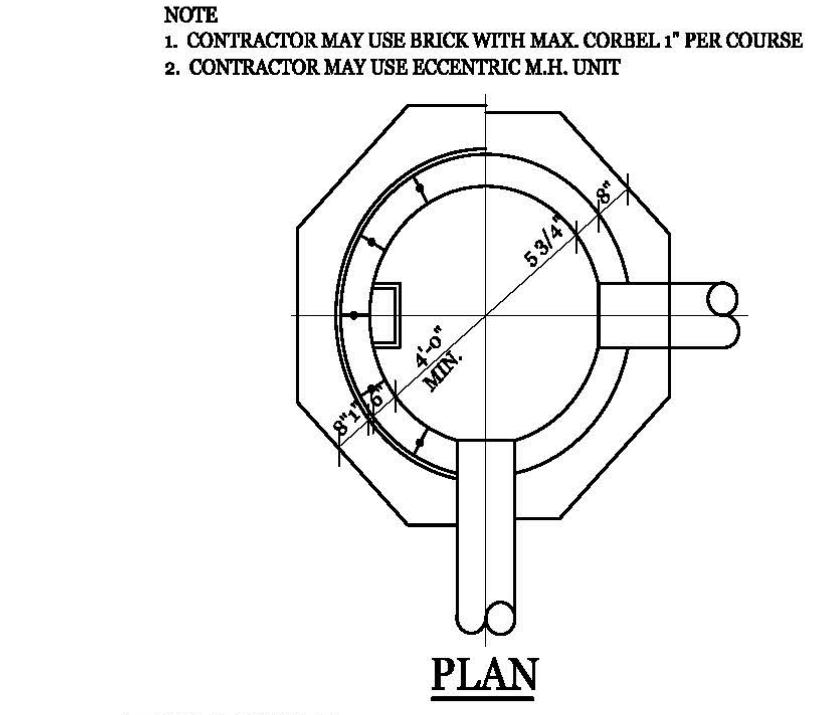
ENERGY DISSIPATOR

NTS



DITCH PLUG DETAIL

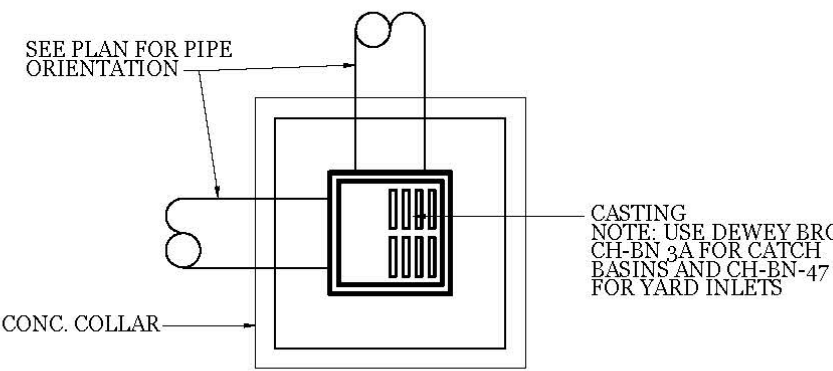
NTS



NOTE:
 1. CONTRACTOR MAY USE BRICK WITH MAX. CORBEL 1" PER COURSE.
 2. CONTRACTOR MAY USE ECCENTRIC M.H. UNIT.

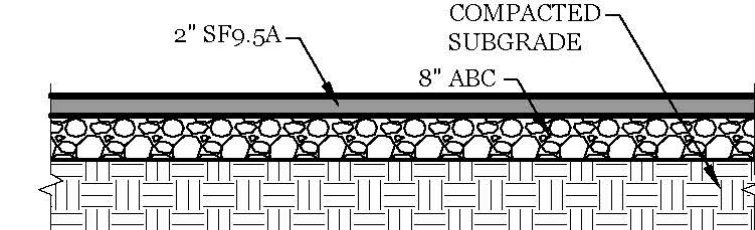
STORM DRAIN MANHOLE DETAIL

NTS



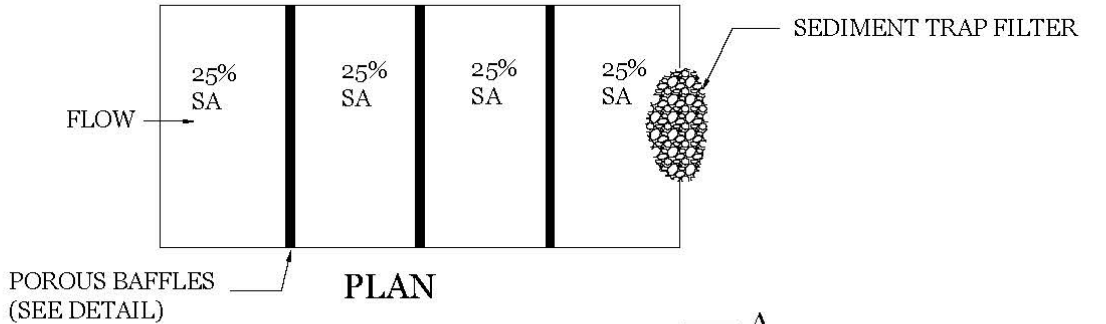
DROP INLET DETAIL

NTS



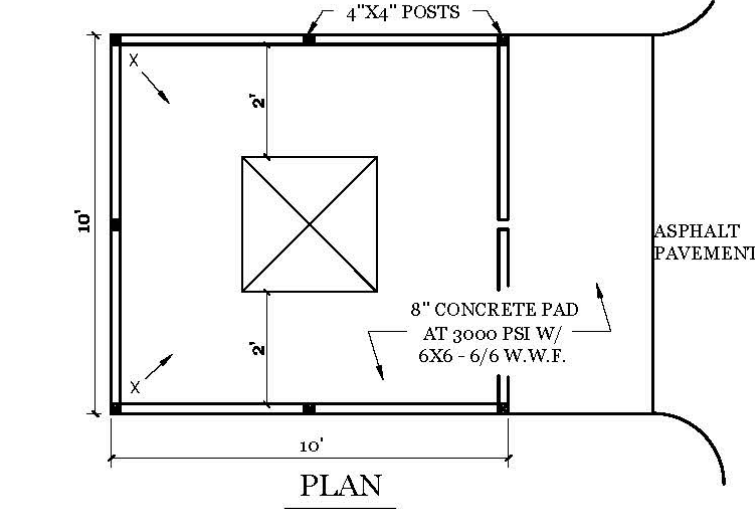
PAVEMENT SECTION

NTS



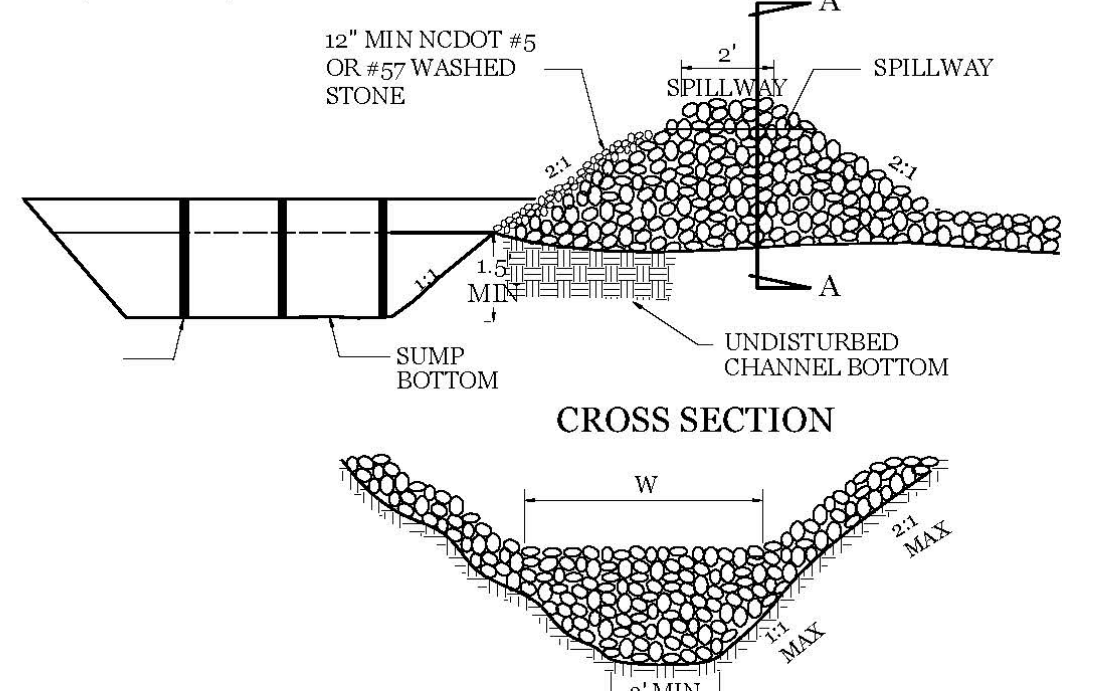
TYPICAL GRASS SWALE

NTS



DUMPSTER PAD & ENCLOSURE DETAIL

NTS



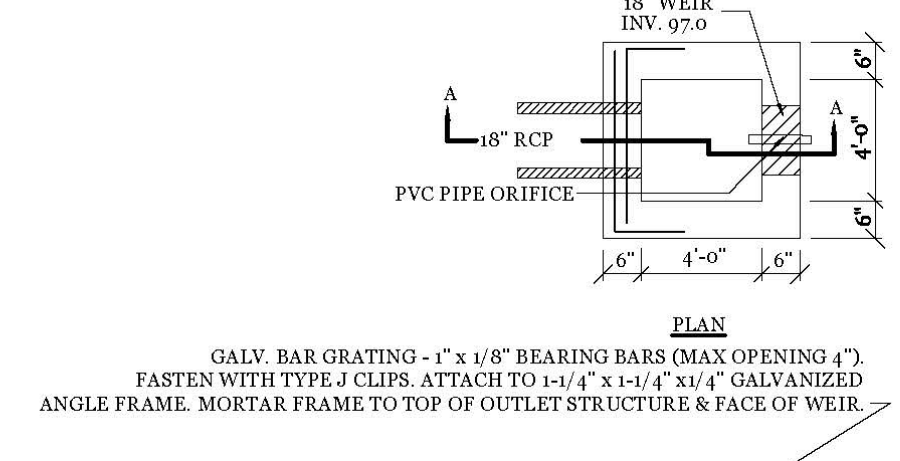
TEMPORARY SEDIMENT TRAP DETAIL

NTS

NO.	AREA (ACRES)	REQ'D PROVIDED	L	W	D	
1	0.35	1,266 CF	1,300 CF	65'	10'	2.0'

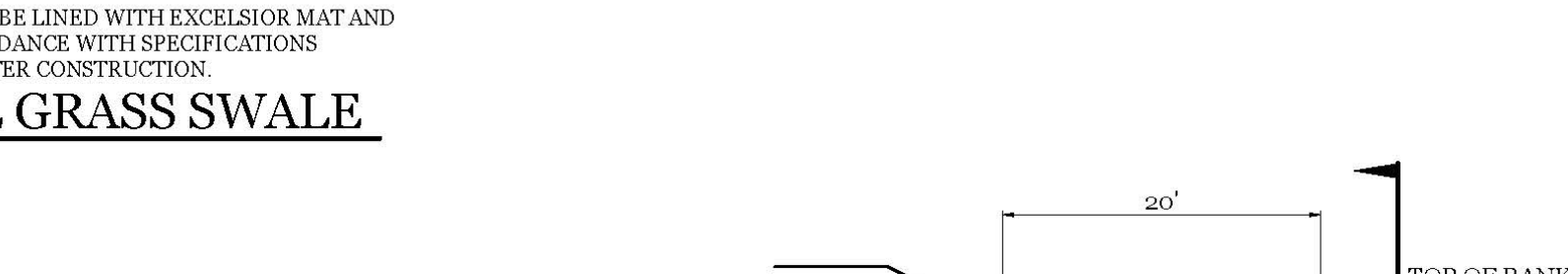
SEE PLAN SHEET FOR LOCATION

- NOTES:
 1. SEDIMENT TRAP WILL BE CONSTRUCTED FIRST, SUMP SECONDLY.
 2. SEDIMENT TRAP HEIGHT TO BOTTOM OF SPILLWAY WILL BE NO LESS THAN TWO FEET.
 3. SPILLWAY DEPTH SHALL BE ONE FOOT.
 4. STONE FACE SHOULD BE NO LESS THAN 6 INCHES MEASURED PERPENDICULARLY FROM THE FACE OF THE LARGE STONE.
 5. SUMP DIMENSIONS SHOULD ALLOW FOR A MINIMUM OF 3500 CF/ACRE OF SEDIMENT STORAGE.
 6. DEPTH OF SEDIMENT IN SUMP WILL BE CHECKED AFTER EACH STORM AND CLEANED AS NECESSARY (MIN. ONCE EACH 6 MONTHS).
 7. REMOVAL OF SEDIMENT TRAP WILL BE DONE IN SUCH A WAY AS TO LIMIT SILENTION.
 8. SEDIMENT TRAP BACK SLOPES TO BE 3:1 MAX.



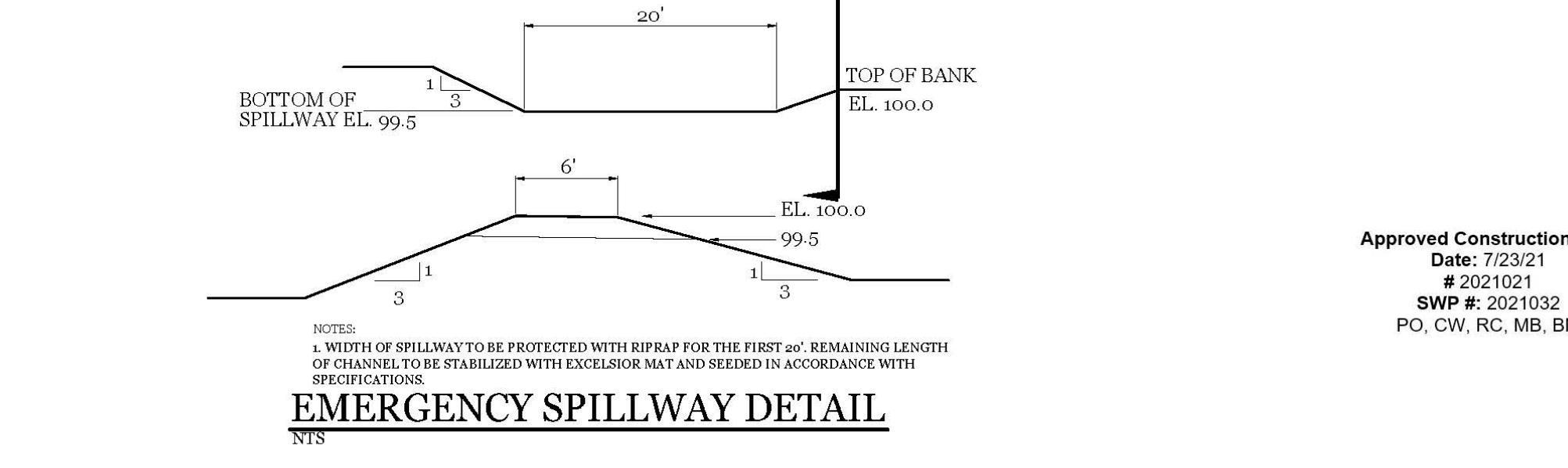
DETENTION POND & FOREBAY SECTION

NTS



EMERGENCY SPILLWAY DETAIL

NTS



DETENTION POND & FOREBAY SECTION

NTS

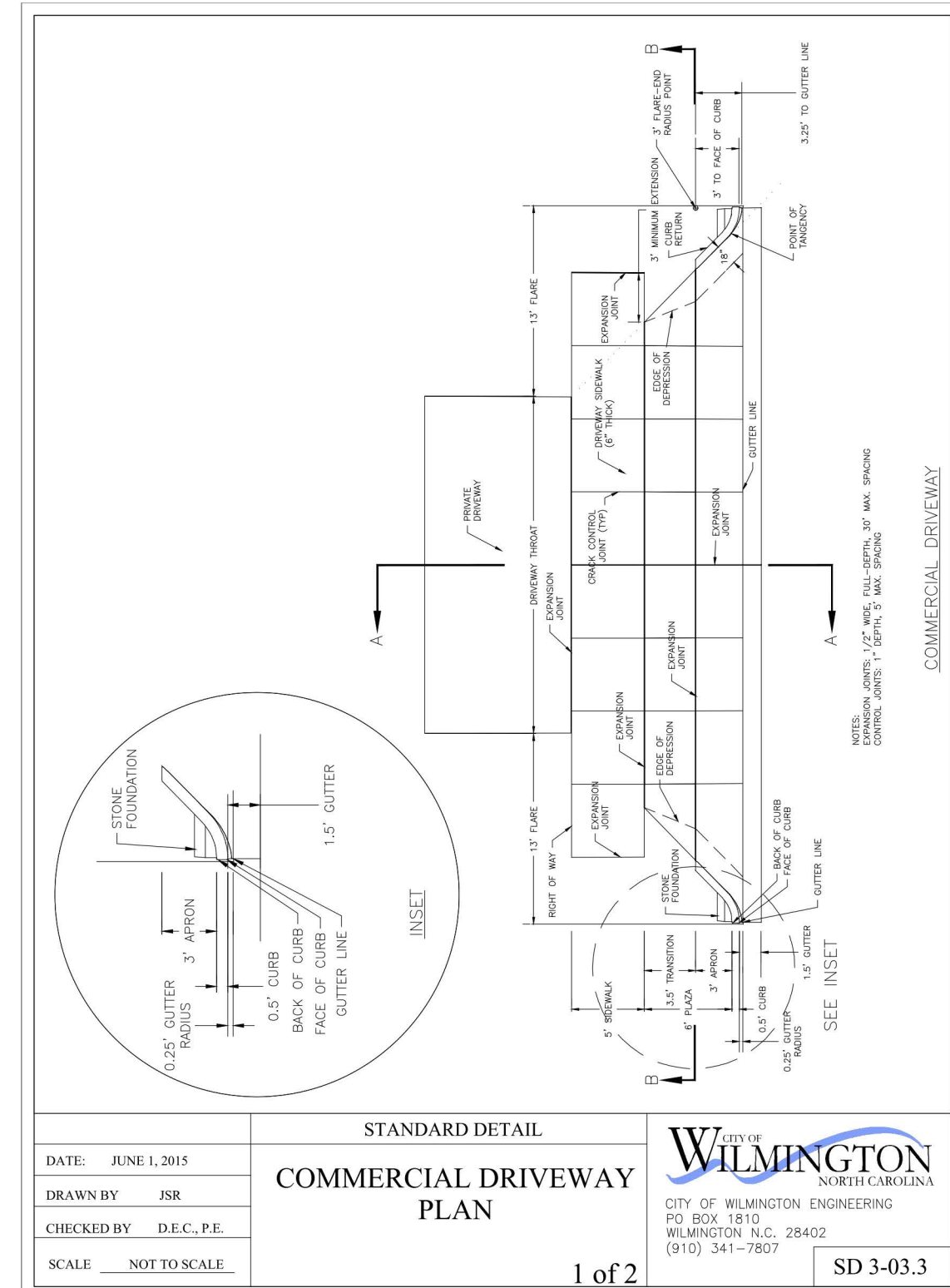
- POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
- 6:1 VEGETATED SHELVE TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEED, DUCK POTATO, SWAMP SORE, BLUE FLAG, & CARDINAL FLOWER. (OR ENGINEER APPROVED ALTERNATIVE)
- VEGETATED SHELVE SHALL BE PLANTED WITH PLUGS OR POTS AT 24" O.C. IN A CHECKERBOARD PATTERN.
- VEGETATED SHELVE PLANTING SHALL NOT BE PLANTED WITHIN 10' OF THE OUTLET STRUCTURES.
- A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES
- ANY PORTION OF WET DETENTION BASIN USED FOR SAG DURING CONSTRUCTION MUST BE CLEANED OUT AND RETURNED TO DESIGN STATE BEFORE USE AS A WET DETENTION BASIN.

Approved Construction Plan
 Date: 7/23/24
 # 2021021
 SWP #: 2021032
 PO, CW, RC, MB, BM

CLIENT INFORMATION:
 Stephen B Conway
 6248 Towles Road
 Wilmington, NC 28409
 Phone: 910-538-9737

DRAWN:	JAE	SHEET SIZE:	24 X 36
CHECKED:	CDC	DATE:	7/14/2021
APPROVED:	CDC	SCALE:	NTS
PROJECT NUMBER:	2020-019		

DRAWING NUMBER:
C-3



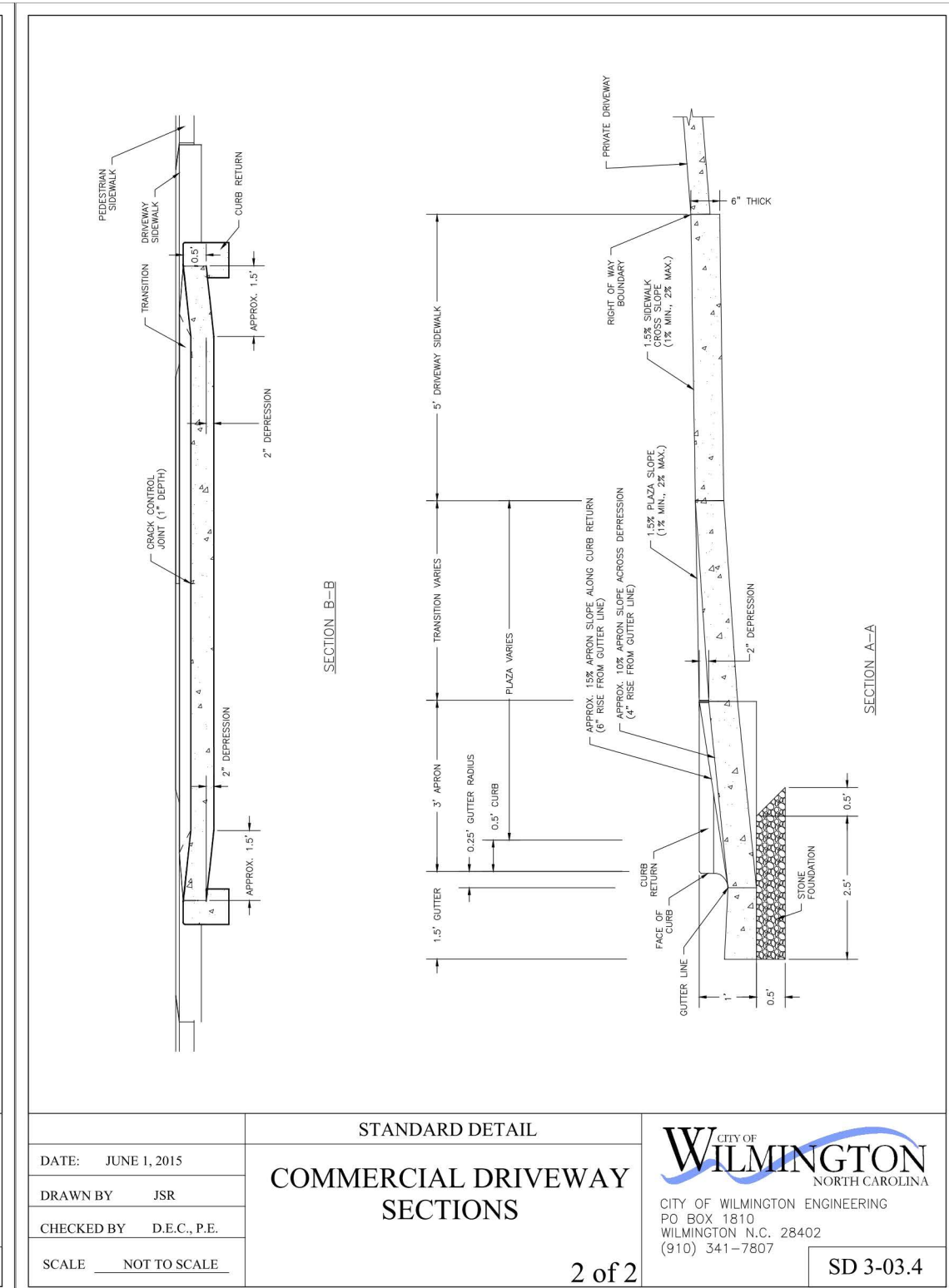
DATE: JUNE 1, 2015
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN

1 of 2

SD 3-03.3

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807



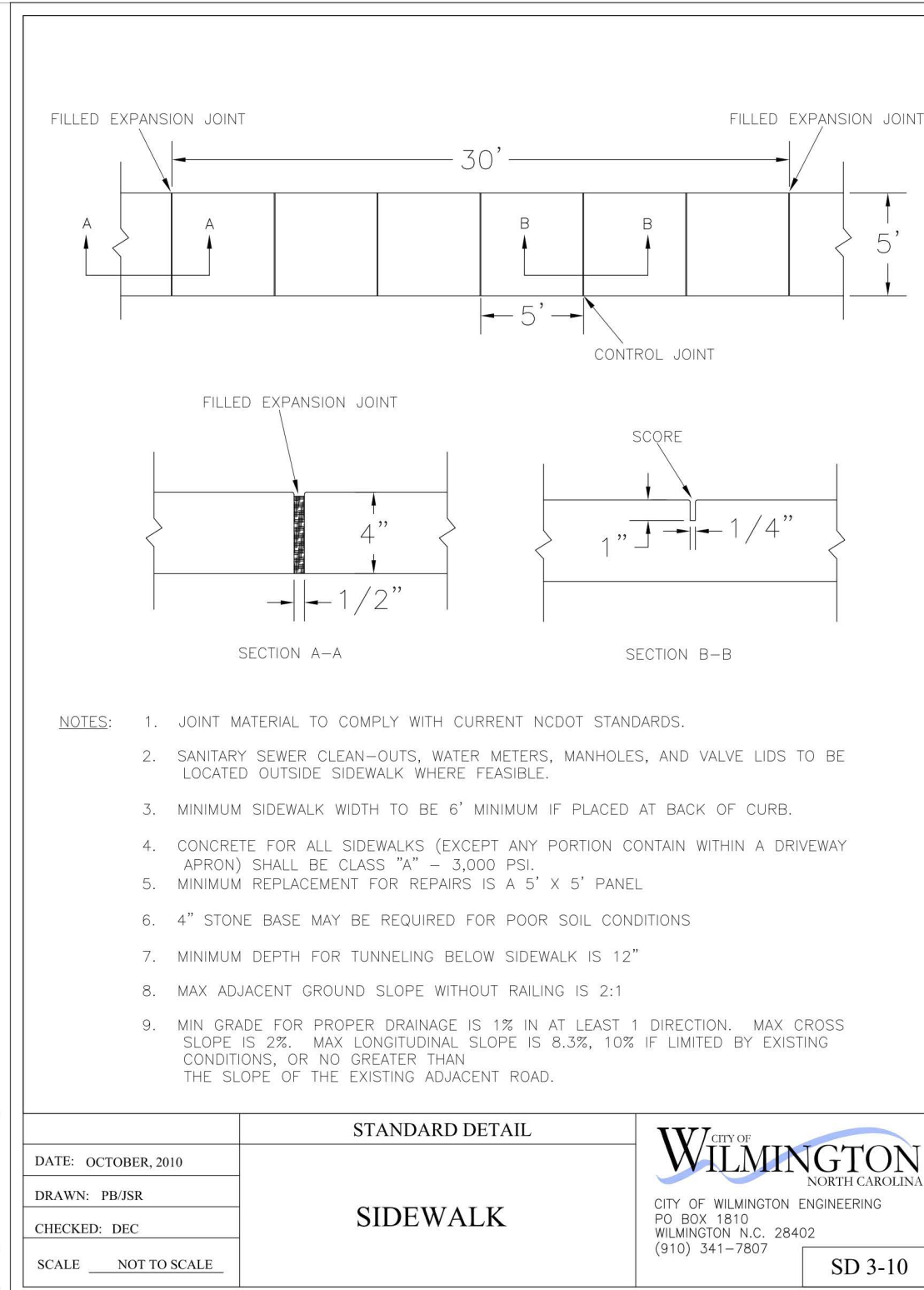
DATE: JUNE 1, 2015
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS

2 of 2

SD 3-03.4

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

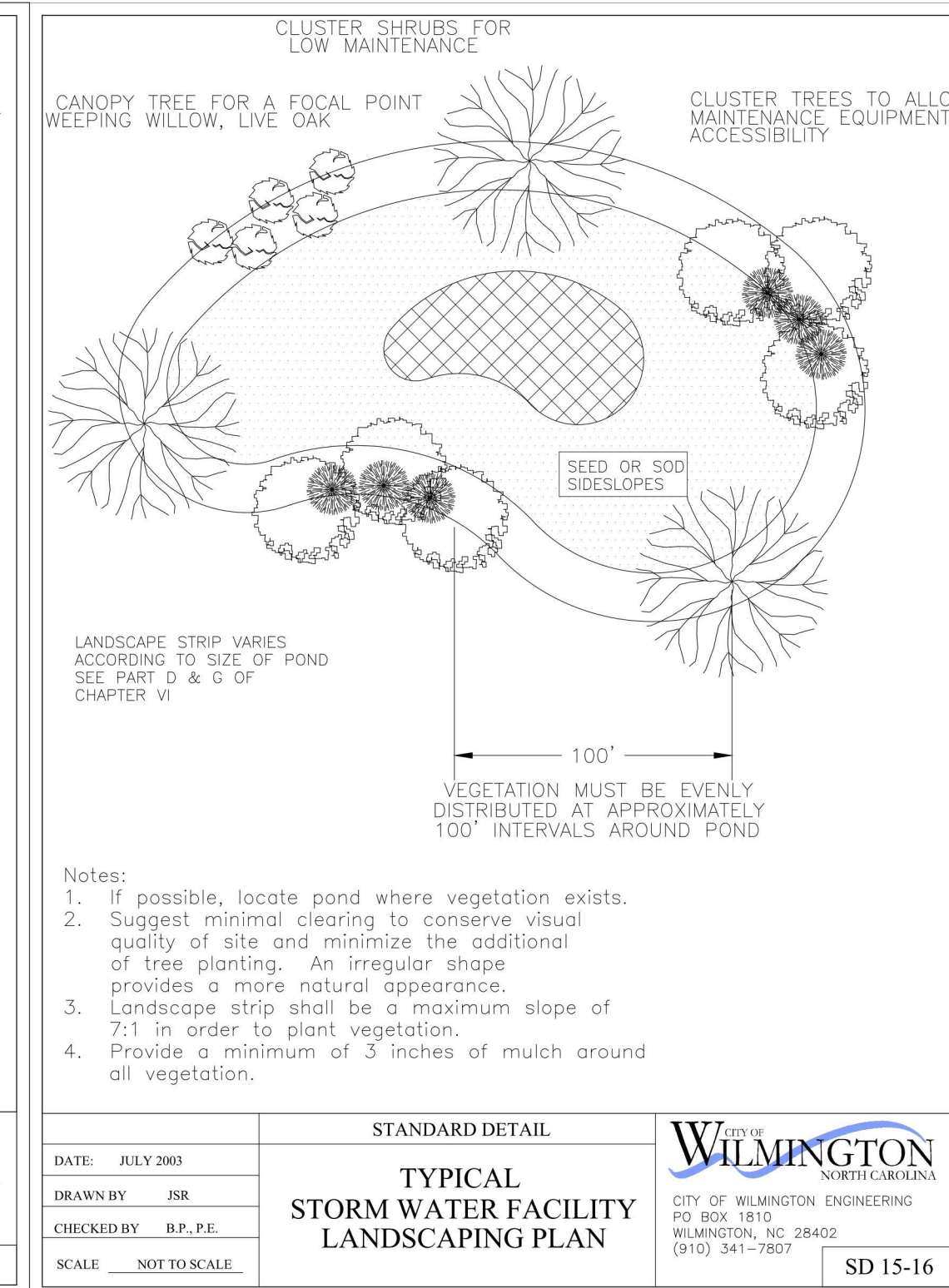


DATE: OCTOBER, 2010
 DRAWN BY: PRJSR
 CHECKED BY: DEC
 SCALE: NOT TO SCALE

STANDARD DETAIL
SIDEWALK

SD 3-10

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

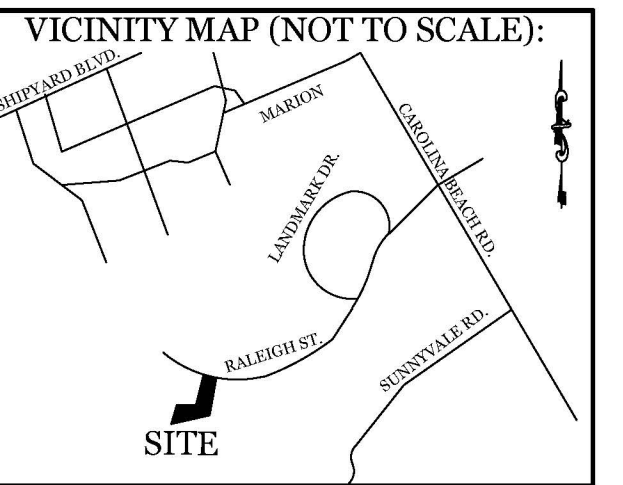


DATE: JULY 2003
 DRAWN BY: JSR
 CHECKED BY: B.P., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
TYPICAL STORM WATER FACILITY LANDSCAPING PLAN

SD 15-16

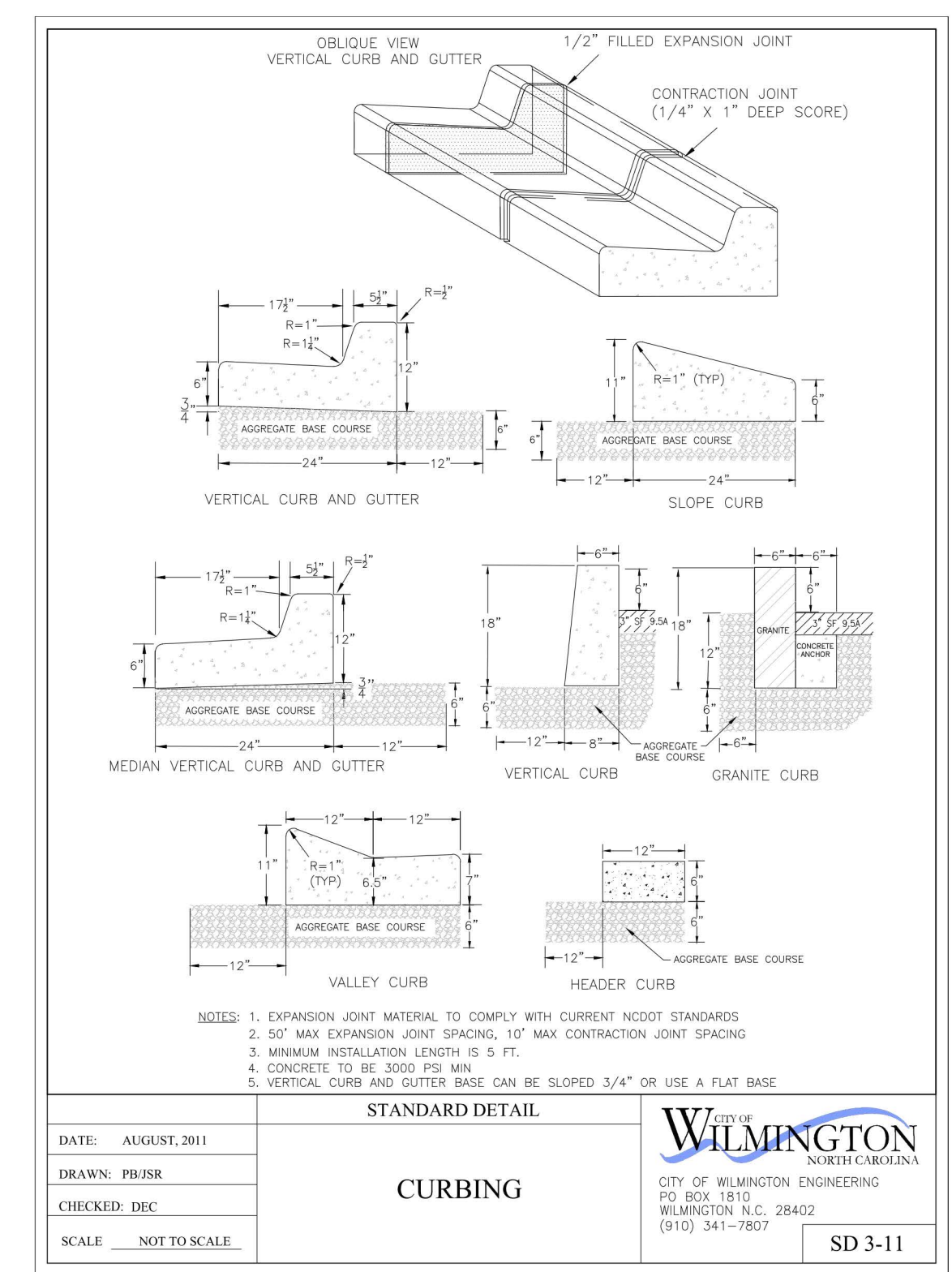
CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807



REVISIONS

NO.	DATE	DESCRIPTION

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 Wilmington, North Carolina, 28403
 Phone: 910.859.8983
 Email: Charlie@intracoastalengineering.com
 License Number P-0662

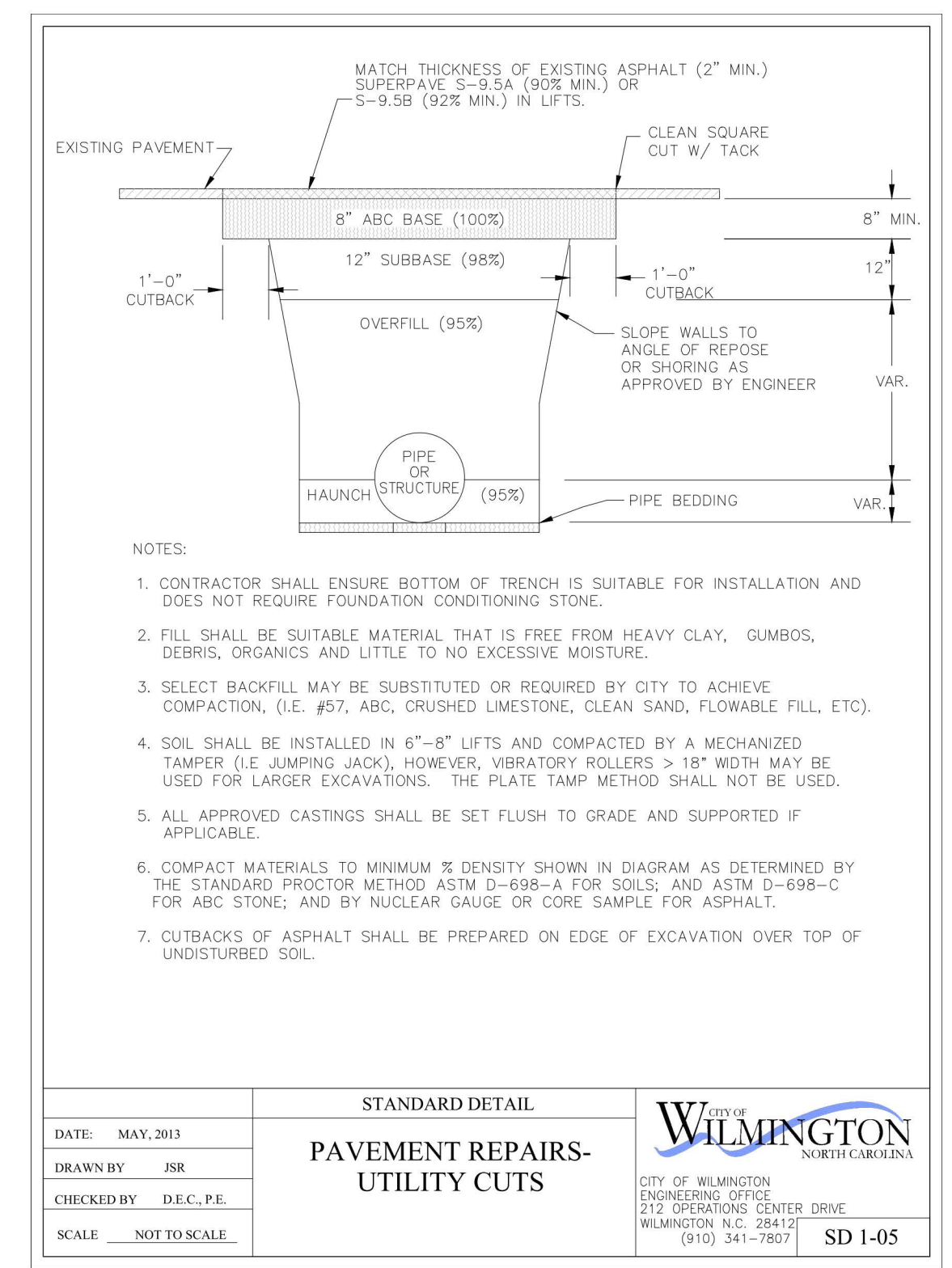


DATE: AUGUST, 2011
 DRAWN BY: PRJSR
 CHECKED BY: DEC
 SCALE: NOT TO SCALE

STANDARD DETAIL
CURBING

SD 3-11

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807



DATE: MAY, 2003
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
PAVEMENT REPAIRS - UTILITY CUTS

SD 1-05

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

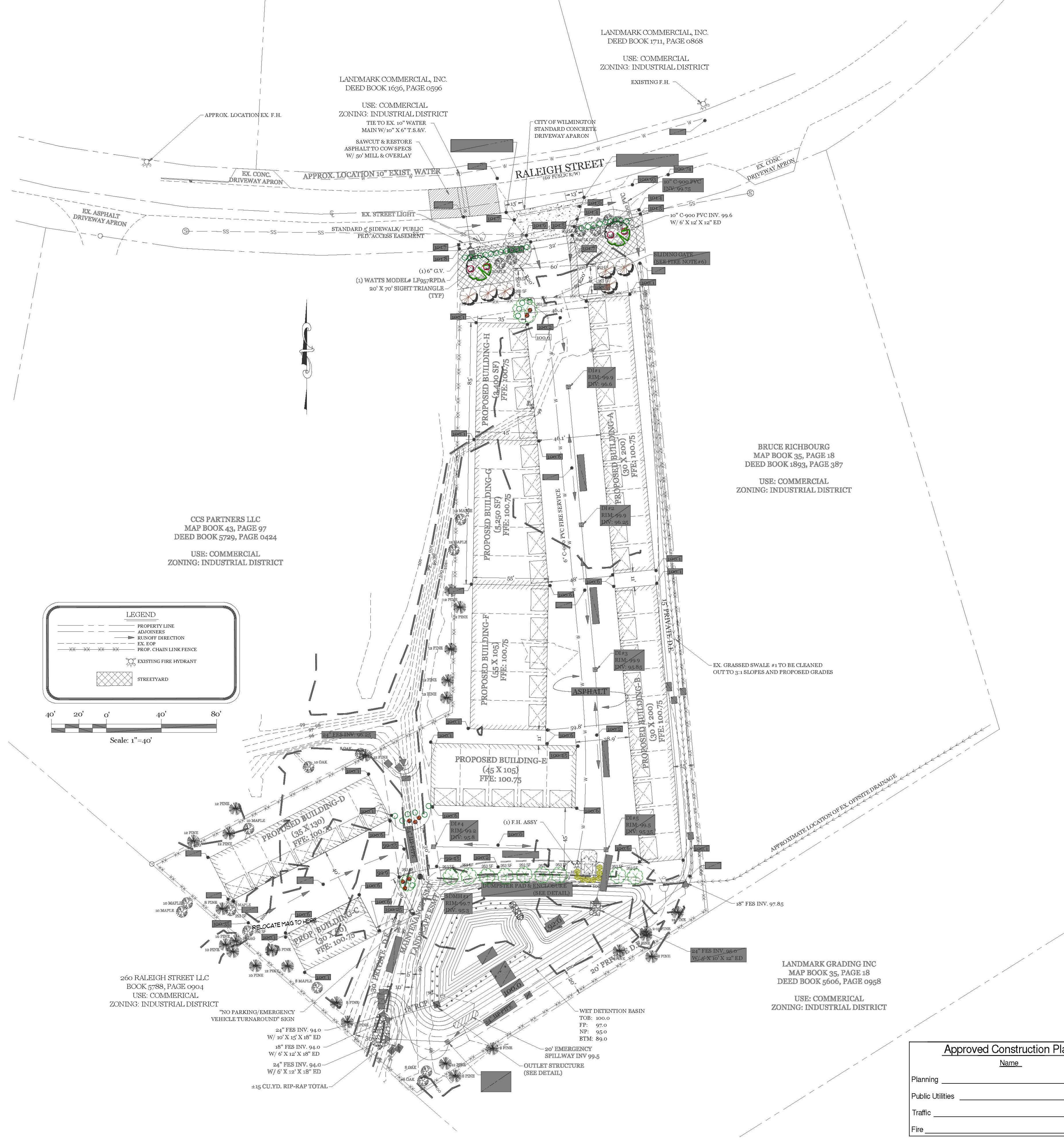
Approved Construction Plan
 Date: 7/23/21
 # 2021021
 SWP #: 2021032
 PO, CW, RC, MB, BM

DETAILS
 FOR
RALEIGH ST. STORAGE
 WILMINGTON, NORTH CAROLINA

CLIENT INFORMATION:
 Stephen B Conway
 6248 Towles Road
 Wilmington, NC 28409
 Phone: 910-538-9737

DRAWN:	JAE	SHEET SIZE:	24 X 36
CHECKED:	CDC	DATE:	7/14/2021
APPROVED:	CDC	SCALE:	NTS
PROJECT NUMBER:	2020-039		

DRAWING NUMBER:
C-4
 5 OF 7



PARKING LOT SHADING LS REQUIREMENTS

32,585 S.F. X 20% = 6,517 S.F. SHADING REQ'D
 353 X 19 = 6,707 S.F.
 TOTAL SHADING PROVD = 6,707 S.F.

STREETYARD LS REQUIREMENTS

2,634 S.F. / 600 = 4 TREES 2" CAL. REQ'D, 4 EX. & 2 NEW PROVD.
 26 SHRUBS 12" HT REQ'D, 26 PROVD.

LANDSCAPE NOTES

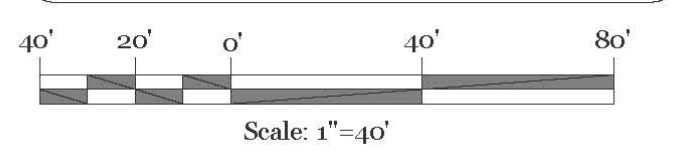
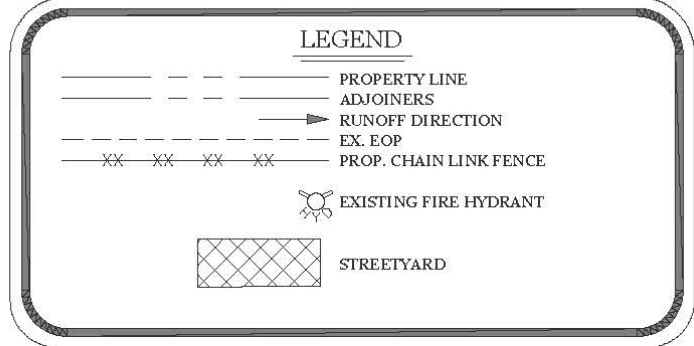
1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
2. THE AREAS WITHIN THE TRANQUILITY SIGHT DISTANCE SHALL BE MAINTAINED FREE OF ALL OBSTRUCTIONS BE TWEEN 30' AND 10'.
3. A TRANSMITTED SENSOR SHALL BE USED IF THERE IS AN IRRADIATION SENSOR.
4. USING THE CREATIVE STANDARD OF THE CODE, 50% OF THE STREETYARD SHALL BE PLANTED AS CALLED OUT.
5. ALL PLANT BEDS ARE TO RECEIVE 3-4" OF PINE STRAW OR MULCH.
6. LANDSCAPING SHALL BE COMPLETE BEFORE ISSUANCE OF A CO.

TREE MITIGATION REQUIREMENTS

28" OF SIGNIFICANT TREES TO BE MITIGATED.
 28" X 2 = 56" / 3 = 19 MITIGATION CAL. IN. REQ'D. OR
 10 MITIGATION TREES (2" CAL.)
 10 X \$350 = \$3,500 TO BE PAID IN LIEU OF PLANTING INTO THE COW TREE IMPROVEMENT FUND.

SITE DATA

PARCEL ID:	R06500-007-035-000	
CURRENT ZONING:	IND (INDUSTRIAL)	
CAMA LAND USE CLASSIFICATION:	URBAN	
PROJECT ADDRESS:	304-A RALEIGH ST. WILMINGTON, NC 28412	
CURRENT OWNER:	ROBERTS JAMES R KIONA P 6040 MOUNT CARMEL PARKE WILMINGTON, NC 28412	
TOTAL ACREAGE IN PROJECT BOUNDARY:	122,843 S.F. (± 2.82 ac.)	X 15 TREES/AC REQ'D = 42 TREES (2" CAL.) NEW & EX. PROVD.
NUMBER OF BUILDINGS:	8	
BUILDING SIZE:	37,500 GFA TOTAL (SEE PLAN FOR INDIVIDUAL BLDG. SIZES)	
BUILDING HEIGHT:	14'	
BUILDING SETBACKS:		
FRONT:	REQUIRED = 50'	PROPOSED = 50'
SIDE:	REQUIRED = 0'	PROPOSED = 15'
REAR:	REQUIRED = 0'	PROPOSED = 15'
CALCULATION FOR BUILDING COVERAGE:	37,500 S.F. ÷ 122,843 S.F. = 30.5%	
PROPOSED IMPERVIOUS AREAS:		
BUILDINGS:	37,500 S.F.	
ASPHALT DRIVES:	32,585 S.F.	
TOTAL:	70,085 S.F. (57.1%)	
PROPOSED OFFSITE IMPERVIOUS AREAS:	CONCRETE SIDEWALK/DRIVE APRON: 1,510 S.F.	
PARKING REQUIRED: (37,500 SF WAREHOUSE):		
MIN:	1 SPACE/1000 S.F. = 38 SPACES	
MAX:	150% of Minimum = 57 SPACES	
PARKING PROVIDED:	49 SPACES (1 Inside each unit)	
BICYCLE PARKING REQUIRED: (MIN. 5 PER 25-125 VEHICLE SPACES)		
REQUIRED:	5 SPACES	
PROVIDED:	49 SPACES (1 Inside each unit)	
FOUNDATION PLANTINGS: N/A (BUILDINGS HAVE ROLL-UP DOORS ALONG ALL FRONTAGES)		
STREETYARD REQUIREMENT: 25' (12.5' MIN & 37.5' MAX WIDTH)		
REQUIRED:	136' - 32' = 104 L.F. X 25' = 2,600 S.F.	
PROVIDED:	2,634 S.F.	
PROPOSED SEWER AND WATER DEMAND: N/A		
ESTIMATED TRIP GENERATION: (Per Trip Generation Manual, 10th Edition)		
37,500 SF WAREHOUSE (ITE CODE 150)	AM PEAK: 8	PM PEAK: 9 DAILY: 87



Legend

Common Name	Qty	Size	Height
Shrub, Deciduous			
Rose, Drift, Red	8	3 Gal.	
Shrub, Evergreen Broadleaf			
Azalea, Formosa	4	3 Gal.	12"
Holly, Yaupon, Dwarf	35	3 Gal.	12"
Yew, Podocarpus	8	3 Gal.	24"
Tree			
Allee Elm	6	2" Cal.	Canopy
Live Oak	2	2" Cal.	Canopy
Trident Maple	11	2" Cal.	Canopy

Approved Construction Plan
 Date: 7/23/21
 # 2021021
 SWP #: 2021032
 PO, CW, RC, MB, BM



FREEMAN LANDSCAPE, INC.
 Landscape Installation Professionals
 james@freemanlandscape.com
 (910) 796-1166

Approved Construction Plan

Name: _____ Date: _____

City of Wilmington, North Carolina
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____

Signed: _____

CLIENT INFORMATION:
 Stephen B Conway
 6248 Towles Rd
 Wilmington, NC 28409
 Phone: 910-538-9737

Revision #: 1
 Date: 6/11/2021

Scale:
 1" = 40'

Landscape Plan:
 Raleigh St. Storage

Landscape Design by: Jim Freeman - NCLC# 0071
 Freeman Landscape, Inc.