

- NOTES**
- 1) ALL PAVEMENT MARKINGS ON PUBLIC ROADS SHALL BE THERMOPLASTIC AND SHALL CONFORM TO NCOTD STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES 1995 AND THE NCOTD ROADWAY STANDARD DRAWINGS. PRIOR TO STRIPING THE ROADWAY, THE PAVEMENT SHOULD BE PRE-MARKED AND APPROVED BY CITY OF WILMINGTON TRAFFIC SERVICES. CONTACT TRAFFIC ENGINEERING (910) 341-1888.
 - 2) RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH NCOTD STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES 1995 AND THE NCOTD ROADWAY STANDARD DRAWINGS.
 - 3) ADDITIONAL PAVEMENT MARKINGS FOR PUBLIC ROADS SHOWN ON SHEETS 8 & 9.
 - 4) CONTACT TRAFFIC ENGINEERING AT 341-1888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
 - 5) DUMPSTER PADS SHALL BE SCREENED IN ACCORDANCE WITH CITY OF WILMINGTON ZONING ORDINANCE STANDARDS.

- LEGEND**
- DENOTES PROPOSED CONTOUR
 - DENOTES EX. CONTOUR
 - DENOTES PROPOSED GRADE
 - DENOTES PROPOSED STORM DRAINAGE
 - DENOTES DROP INLET OR CATCH BASIN W/ INLET PROTECTION
 - DENOTES LIMITS OF DISTURBANCE
 - DENOTES SILT FENCE
 - DENOTES SEDIMENT TRAP
 - DENOTES DRAINAGE DIRECTION
 - DENOTES WETLAND LINES
 - DENOTES DRAINAGE AREA
 - DENOTES PROPOSED FIRE HYDRANT
 - DENOTES PROPOSED MANHOLE
 - DENOTES PROPOSED 8 IN SANITARY SEWER
 - DENOTES PHASE LINE
 - DENOTES SQUARE FOOTAGE OF STREET YARD
 - DENOTES PROPOSED WATER
 - DENOTES PROPOSED GATE VALVE

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan

Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN

APPROVED

CITY OF WILMINGTON

ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

BY	NO.	DATE	DESCRIPTION
CPS	1	2/18/02	PH. LEG. RIVER RD.
CPS	2	1/8/03	AS PER NHC EC.
JHF	3	2/5/03	SHORTEN CDS PER CITY
JHF	4	6/26/03	PER FINAL CITY REVIEW
JHF	5	5/19/17	REVISED OPEN SPACE

SITE STAKING PLAN

THE MARSHES

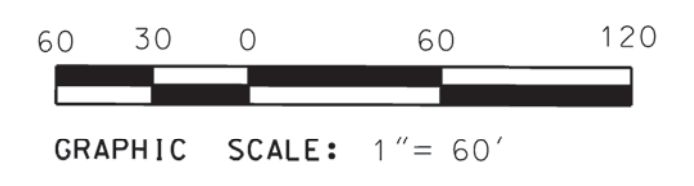
PHASES 3, 4 & 5

WILMINGTON TOWNSHIP CITY OF WILMINGTON NORTH CAROLINA

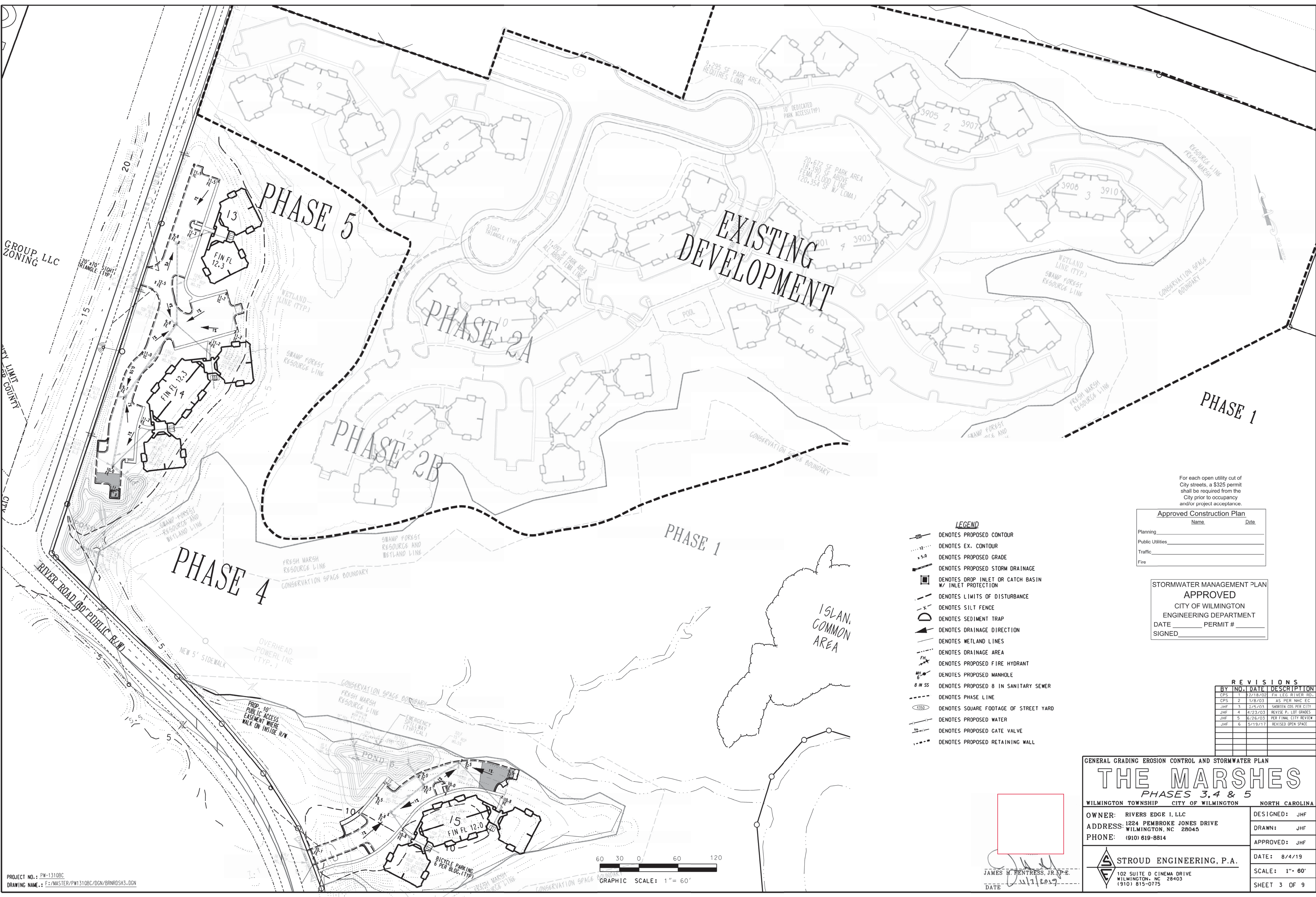
OWNER: RIVERS EDGE I, LLC
 ADDRESS: 1224 PEMBROKE JONES DRIVE WILMINGTON, NC 28045
 PHONE: (910) 619-8814

DESIGNED: JHF
 DRAWN: JHF
 APPROVED: JHF
 DATE: 5/19/17
 SCALE: 1" = 60'
 SHEET 2 OF 9

STROUD ENGINEERING, P.A.
 102 SUITE D CINEMA DRIVE WILMINGTON, NC 28403
 (910) 815-0775



[Signature]
 JAMES H. FENTRESS, JR., P.E.
 DATE: 5/17/2017



PROJECT NO.: PW-1310BC
 DRAWING NAME: F:/MASTER/PW1310BC/DGN/BRNRD5H.DGN

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan

Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN APPROVED

CITY OF WILMINGTON
 ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____
 SIGNED _____

- LEGEND**
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 - DENOTES PROPOSED MANHOLE
 - 8 IN SS DENOTES PROPOSED 8 IN SANITARY SEWER
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 - DENOTES SQUARE FOOTAGE OF STREET YARD
 - DENOTES PROPOSED WATER
 - DENOTES PROPOSED GATE VALVE
 - DENOTES PROPOSED RETAINING WALL

REVISIONS

BY	NO.	DATE	DESCRIPTION
CPS	1	2/18/02	FH LEG RIVER RD.
CPS	2	1/8/03	AS PER NHC EC
JHF	3	2/5/03	SHORTEN CPS PER CITY
JHF	4	2/23/03	REVISE P. LOT GRADIES
JHF	5	6/28/03	PER FINAL CITY REVIEW
JHF	6	5/19/17	REVISED OPEN SPACE

GENERAL GRADING EROSION CONTROL AND STORMWATER PLAN

THE MARSHES

PHASES 3, 4 & 5

WILMINGTON TOWNSHIP CITY OF WILMINGTON NORTH CAROLINA

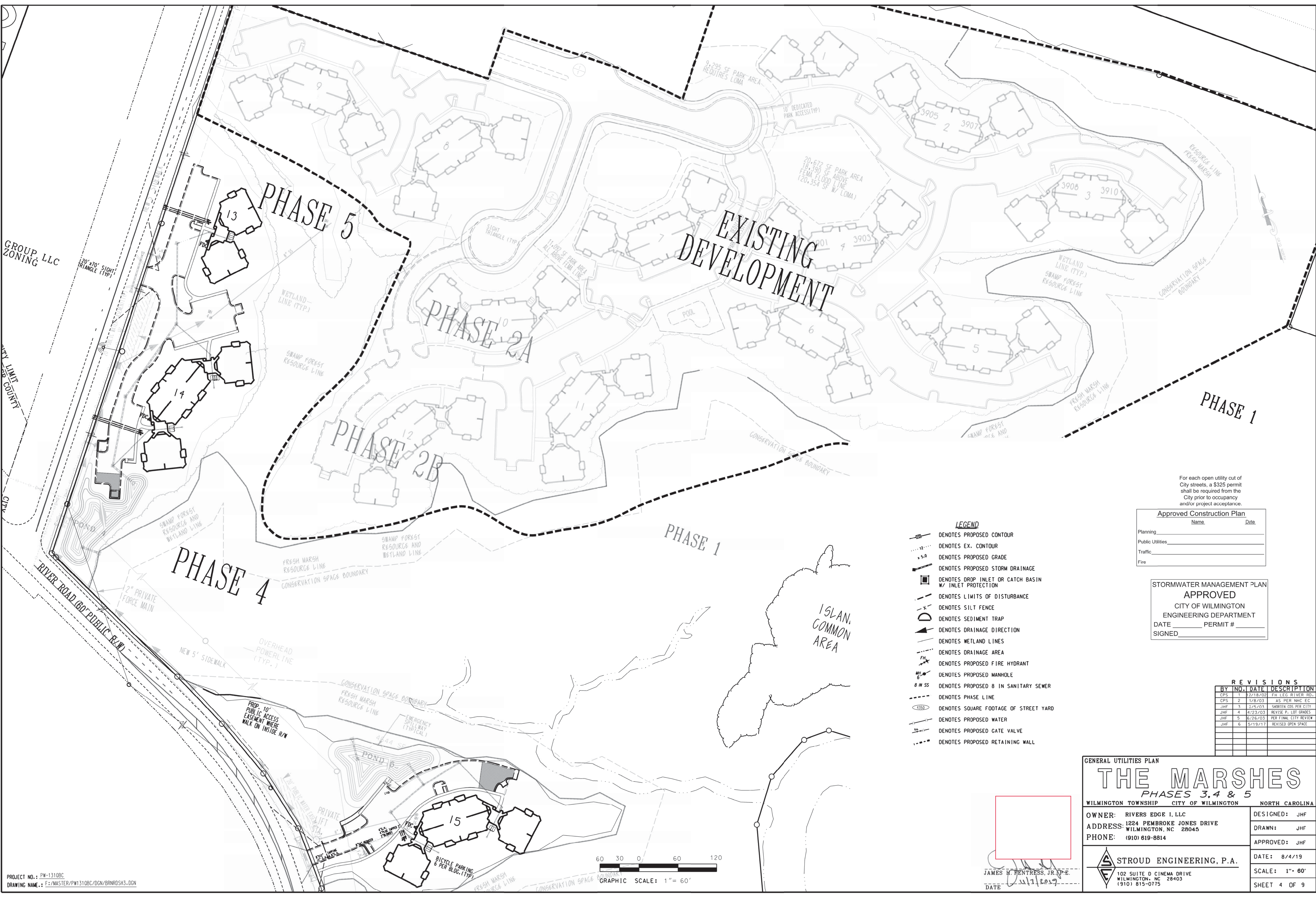
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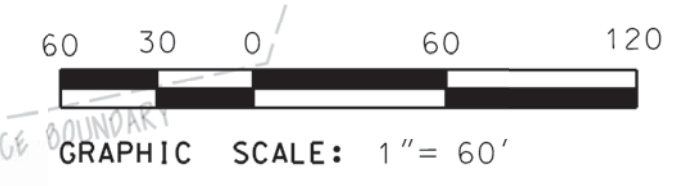
DATE: 8/4/19
 SCALE: 1" = 60'
 SHEET 3 OF 9

STROUD ENGINEERING, P.A.
 102 SUITE D CINEMA DRIVE
 WILMINGTON, NC 28403
 (910) 815-0775

JAMES H. HENTRESS, JR., P.E.
 DATE: 8/1/2019



PROJECT NO.: PW-1310BC
 DRAWING NAME: F:/MASTER/PW1310BC/DCN/BRNRD3H3.DGN



For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan	
Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN
APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 DATE _____ PERMIT # _____
 SIGNED _____

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GENERAL UTILITIES PLAN

THE MARSHES

PHASES 3, 4 & 5

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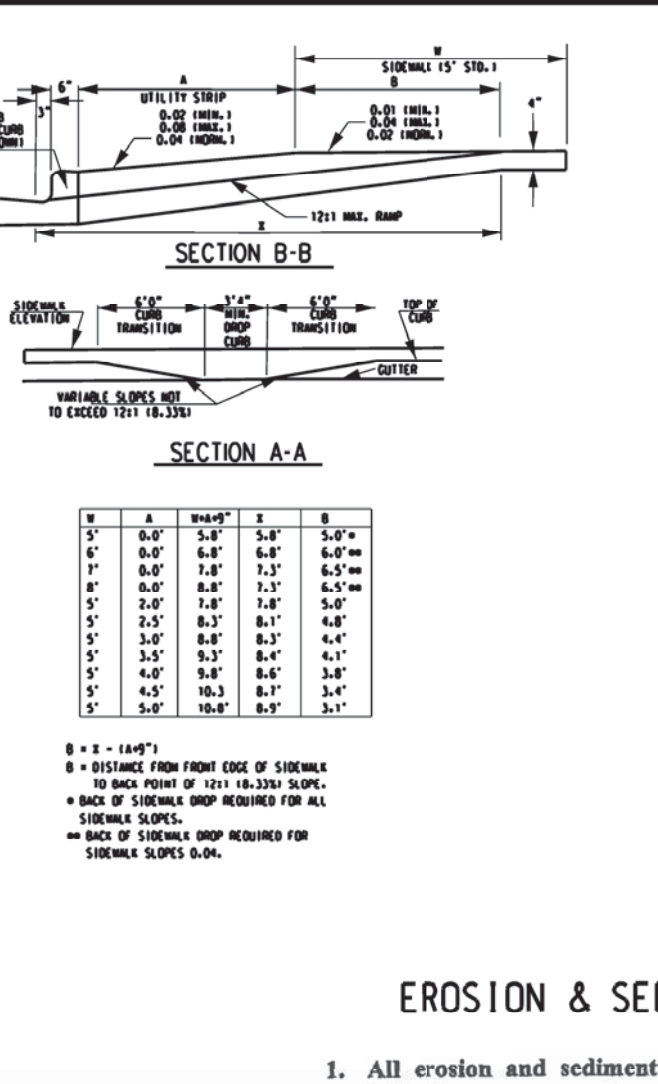
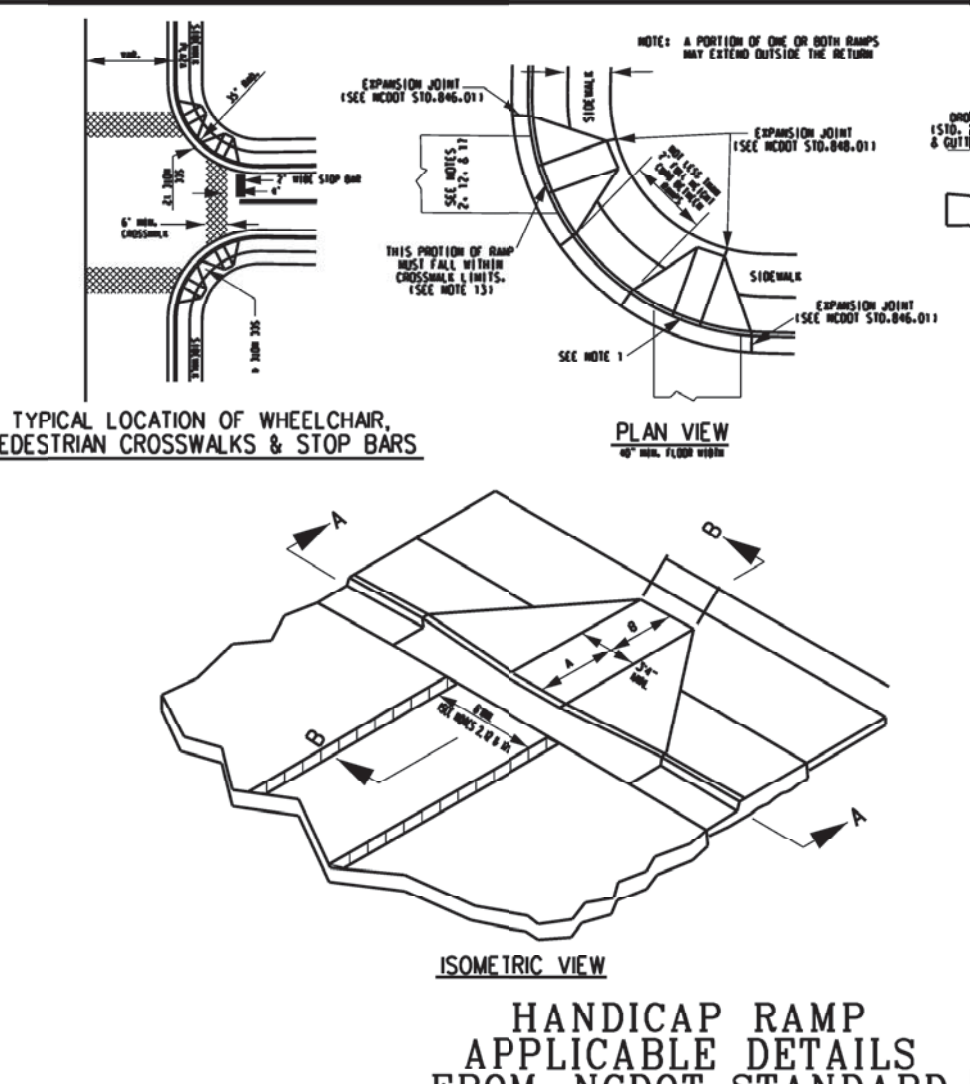
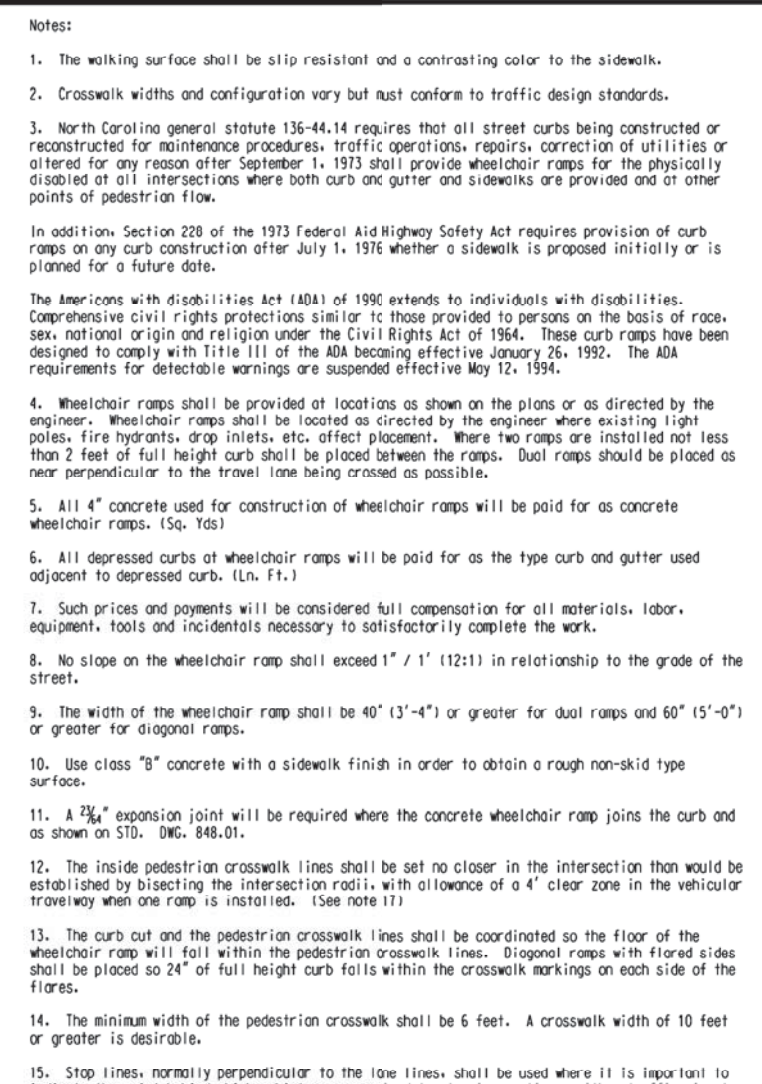
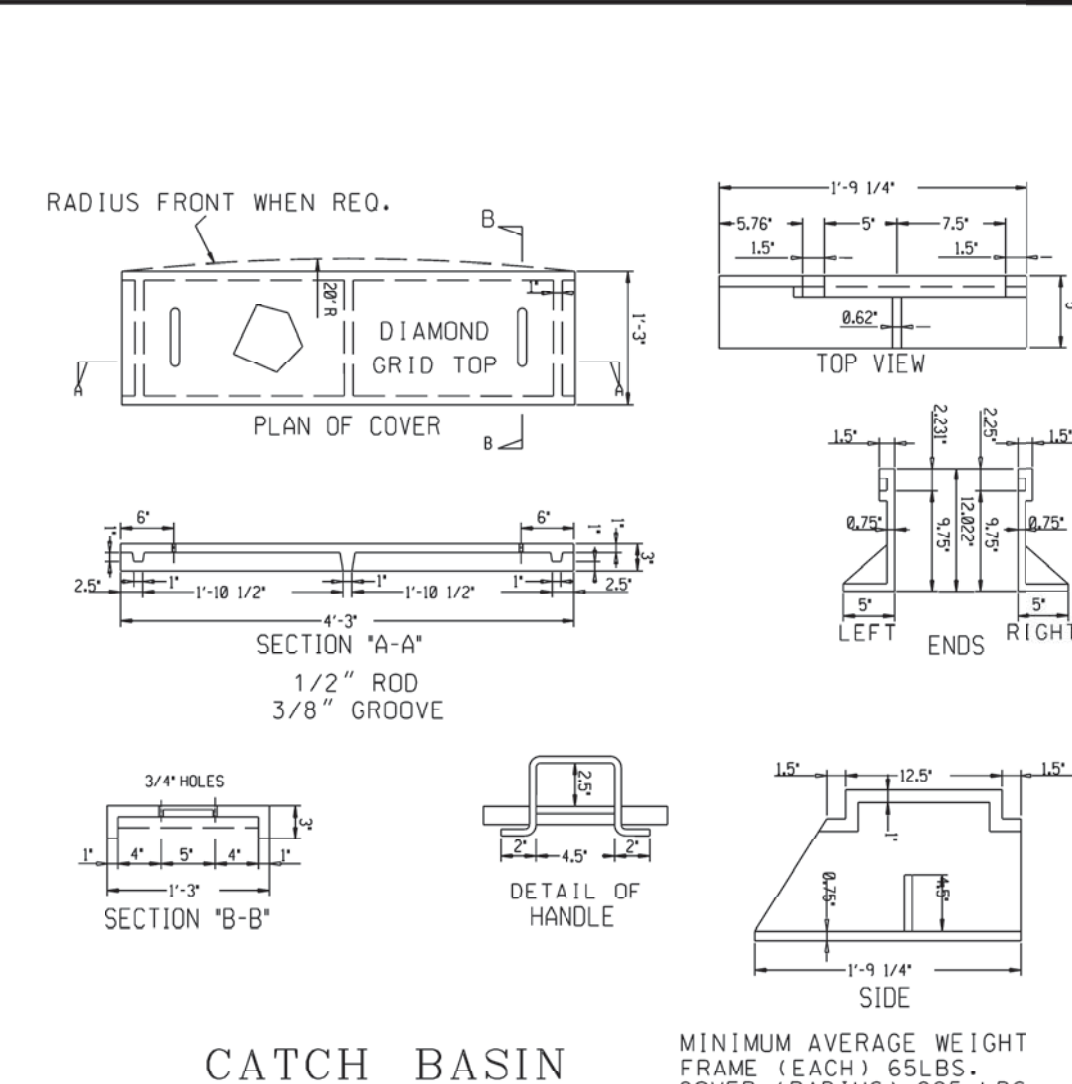
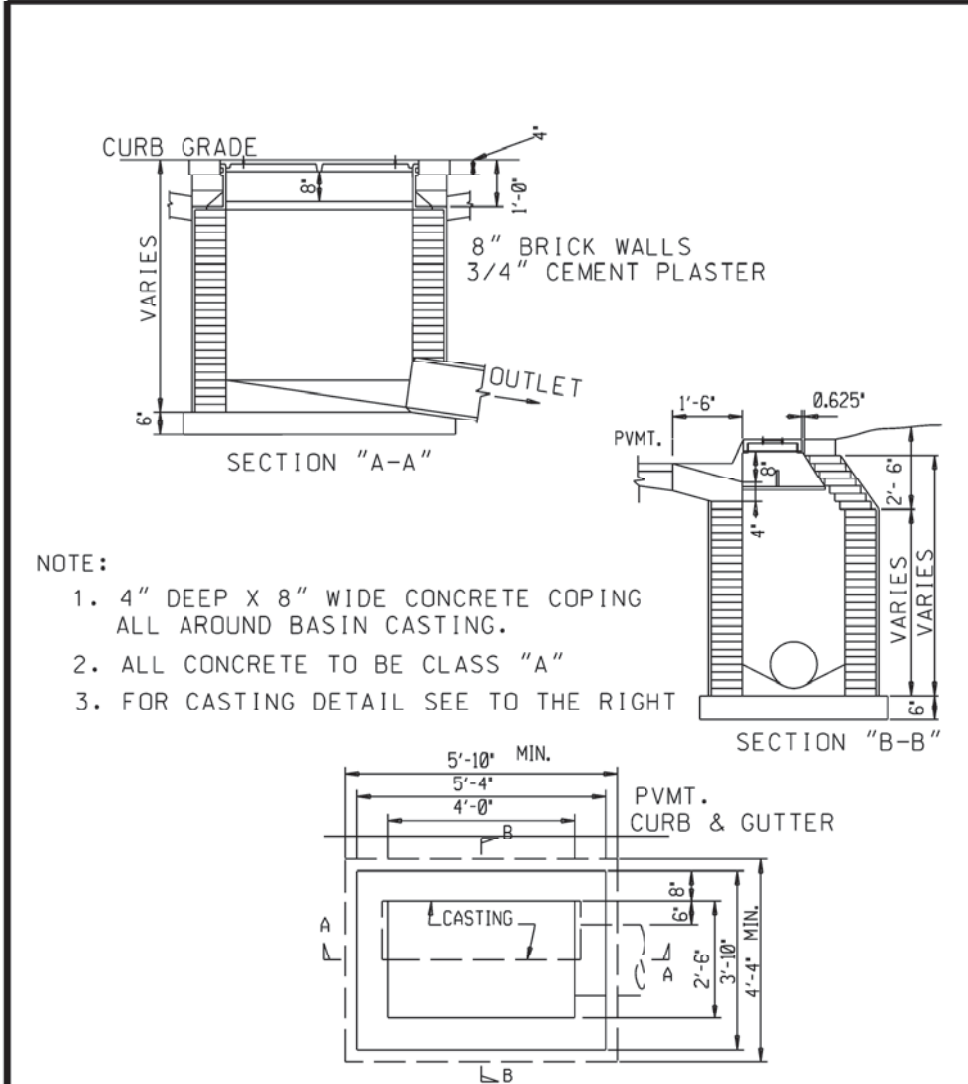
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 102 SUITE D CINEMA DRIVE WILMINGTON, NC 28403 (910) 815-0775

JAMES H. PENTRESS, JR., P.E.
 DATE: 8/1/2019



- CONSTRUCTION SEQUENCE PHASE 1**
1. INSTALL SEDIMENT CONTROL MEASURES.
 2. CLEAR AND GRADE AREA OF POND AND SWALES.
 3. CLEAR & GRUB REMAINDER OF SITE.
 4. INSTALL UNDERGROUND UTILITIES IN PHASE 1 AND MULTIFAMILY.
 5. CONSTRUCT BUILDINGS
 6. INSTALL CURB, GUTTER AND PAVE
 7. PROVIDE 100% VEGETATIVE COVER OF ALL DISTURBED SOILS

PERMANENT SEEDING TABLE 1

Seeding Dates	Recommended Planting	Rate (lb/ac)
Feb. 15 - Apr. 1	Tall Fescue Mixture	see table 2
Sep. 1 - Nov. 1	Hybrid Bermudagrass	see table 2
Apr. 1 - Aug. 1	Common Bermudagrass	see table 2
Mar. 1 - Jul. 1	Centipede grass	see table 2

PERMANENT SEEDING TABLE 2a-LOW MAINTENANCE MIXTURES

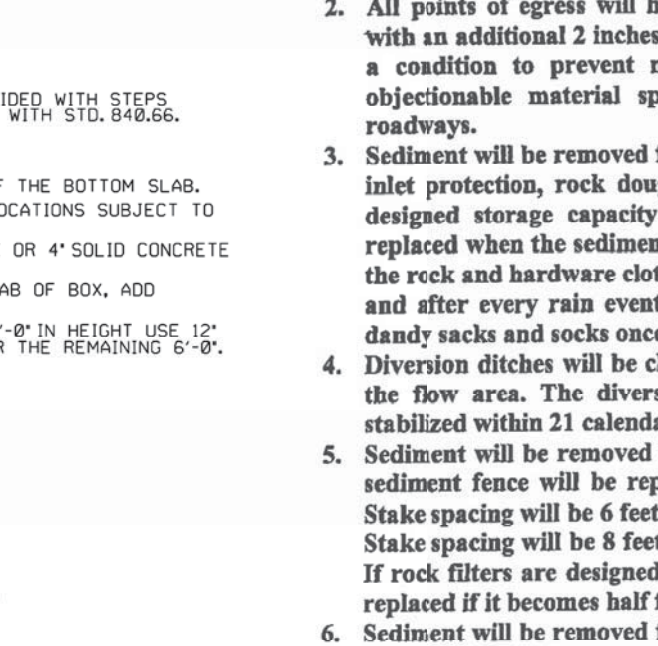
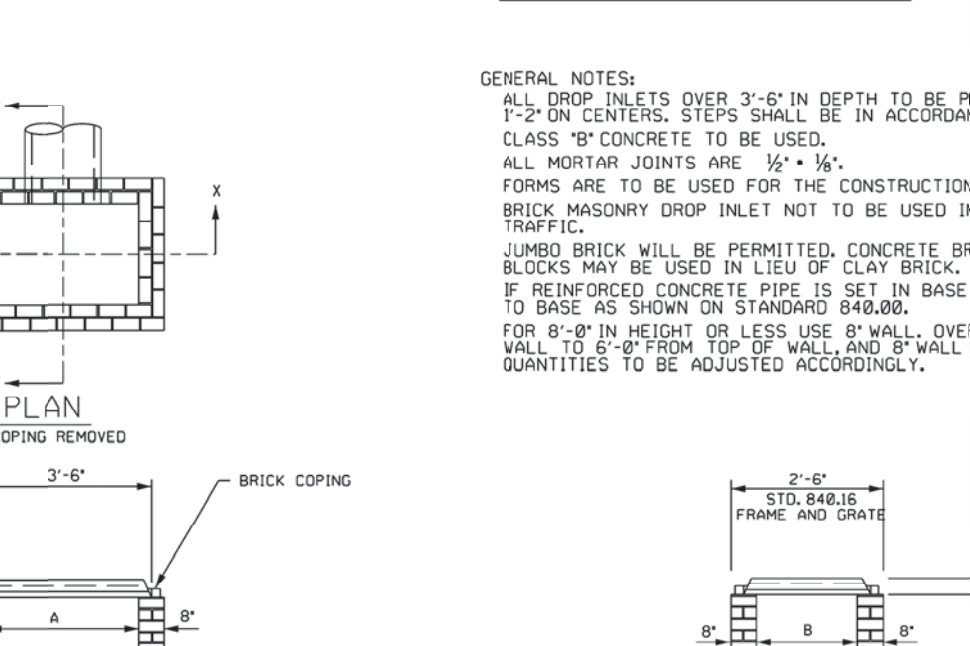
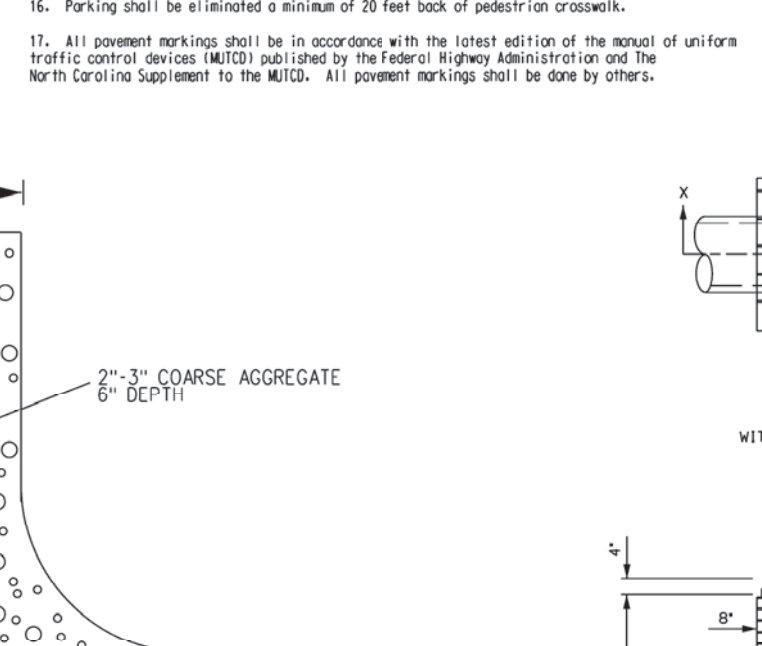
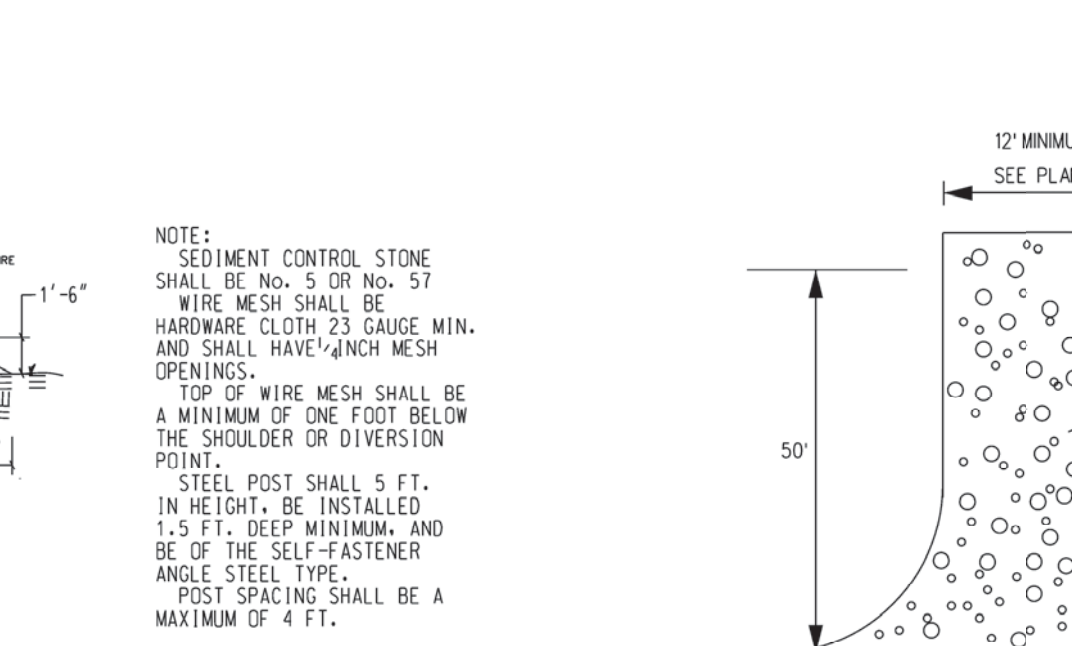
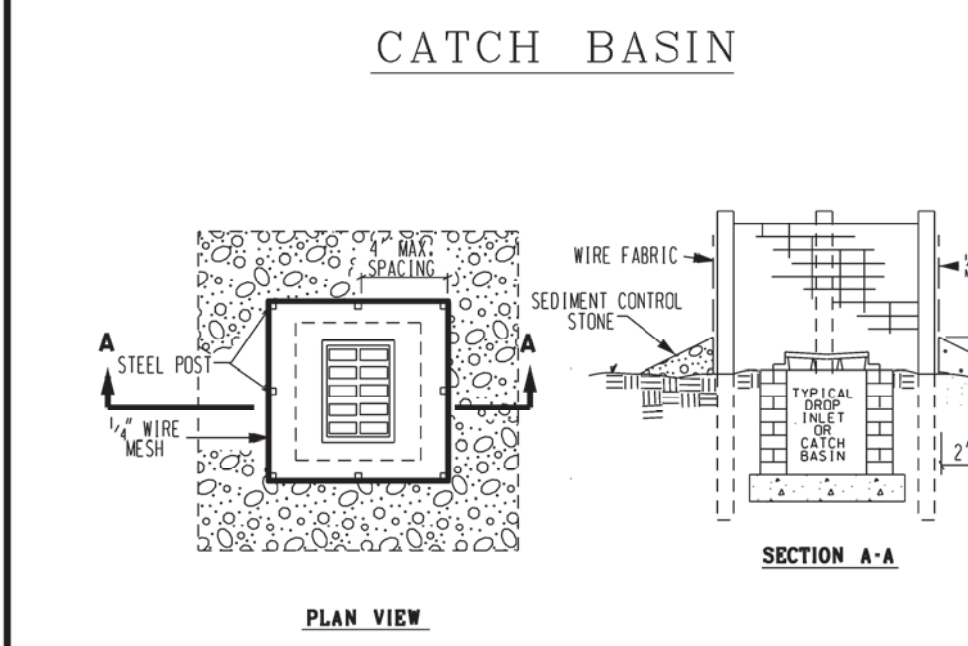
Site Description	Recommended Planting	Rate (lb/ac)
Well to poorly drained soils	Tall Fescue Mixture	80
	Pensacola Bahiagrass	50
	Kobe Lespedeza	40
Dry to well drained soils	Pensacola Bahiagrass	50
	Common Bermudagrass	30
	Kobe Lespedeza	10
	German Millet	10
Swales	Common Bermudagrass	40-80

PERMANENT SEEDING TABLE 2b-HIGH MAINTENANCE MIXTURES

Site Description	Recommended Planting	Rate (lb/ac)
Well to poorly drained soils	Tall Fescue Mixture	200
	Rye Grain	25
Dry to well drained soils	Hybrid Bermudagrass	50
Well drained sandy loam to sand, loams.	Centipede grass	10-20

TEMPORARY SEEDING TABLE

Seeding Dates	Recommended Planting	Rate (lb/ac)
Dec. 1 - Apr. 15	Kobe Lespedeza with Rye Grain	50
Apr. 15 - Aug. 15	German Millet	40
Aug. 15 - Dec. 1	Rye Grain	120



- EROSION & SEDIMENT CONTROL MAINTENANCE PLAN**
1. All erosion and sediment control measures 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.
 2. All points of egress will have construction entrances that will be periodically top-dressed with an additional 2 inches of #4 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.
 3. Sediment will be removed from hardware cloth and gravel inlet protection, block and gravel inlet protection, rock doughnut inlet protection 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 wattles, beaver dams, dandy sacks and socks once a week and after every rain event.
 4. Diversion ditches will be cleaned out immediately to remove sediment or obstructions from the flow area. The diversion ridges will also be required. Swales must be temporarily stabilized within 21 calendar days of cease of any phase of activity associated with the work.
 5. 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 8 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.
 6. Sediment will be removed from sediment traps when the design storage capacity has been half filled with sediment. The rock will be cleaned or replaced when the sediment pool no longer drains or when the rock is dislodged. Baffles will be repaired or replaced if they collapse, tear, decompose or become ineffective. They will be replaced promptly. Sediment will be inspected weekly and will be kept clean.
 7. Sediment will be removed from the sediment basin when the design storage capacity has been half filled with sediment. Rock will be cleaned or replaced when the sediment pool no longer drains or if the rock is dislodged. Baffles will be repaired or replaced if they collapse, tear, decompose or become ineffective. They will be replaced promptly. Sediment will be removed from baffles when deposits reach half the height of the 1st baffle. Floating skimmers will be inspected weekly and will be kept clean.
 8. All seeded areas will be fertilized, reseeded as necessary and mulched according to specifications in the vegetative plan to maintain a vigorous, dense vegetative cover. All slopes will be stabilized within 21 calendar days. All other areas will be stabilized within 15 working days.
 9. Flocculants will be used to address turbidity issues. The pumps, tanks, hoses and injection systems will be checked for problems or turbid discharges daily.

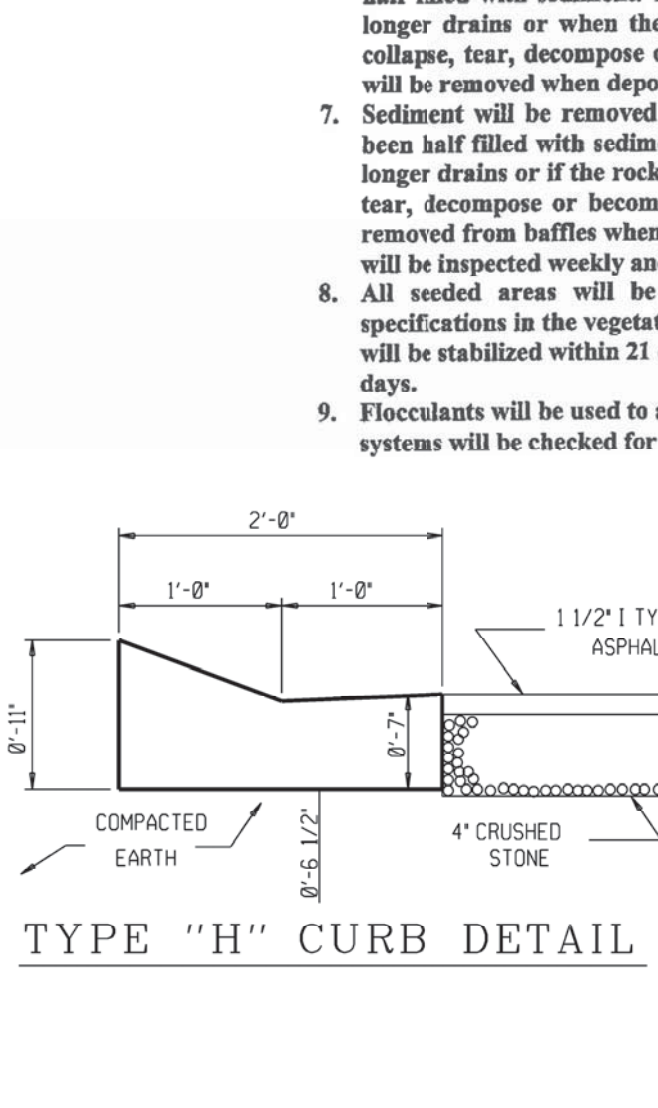
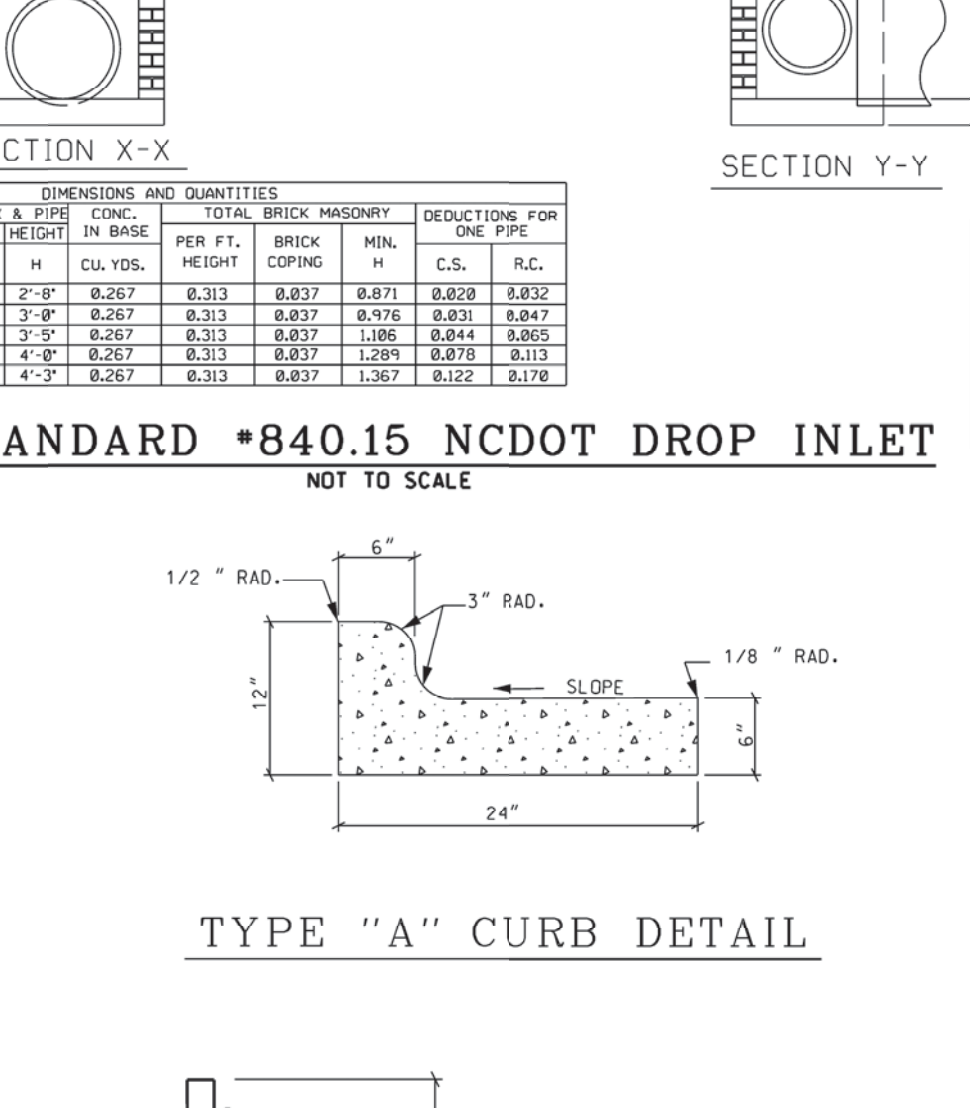
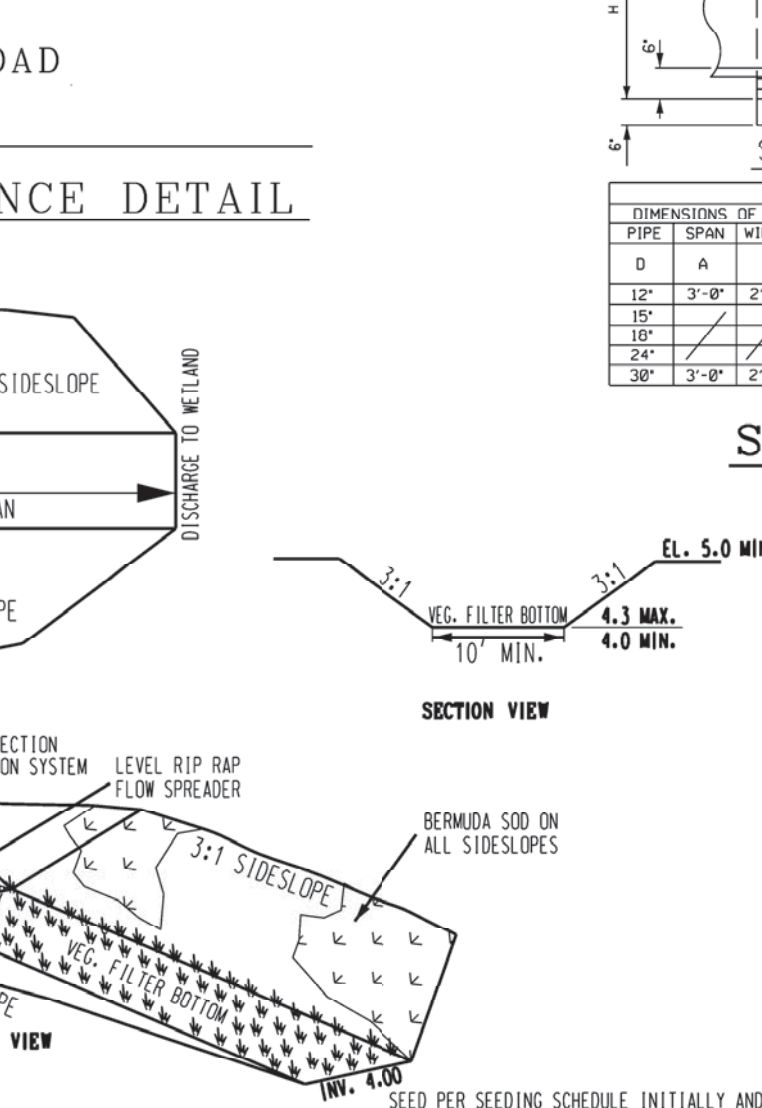
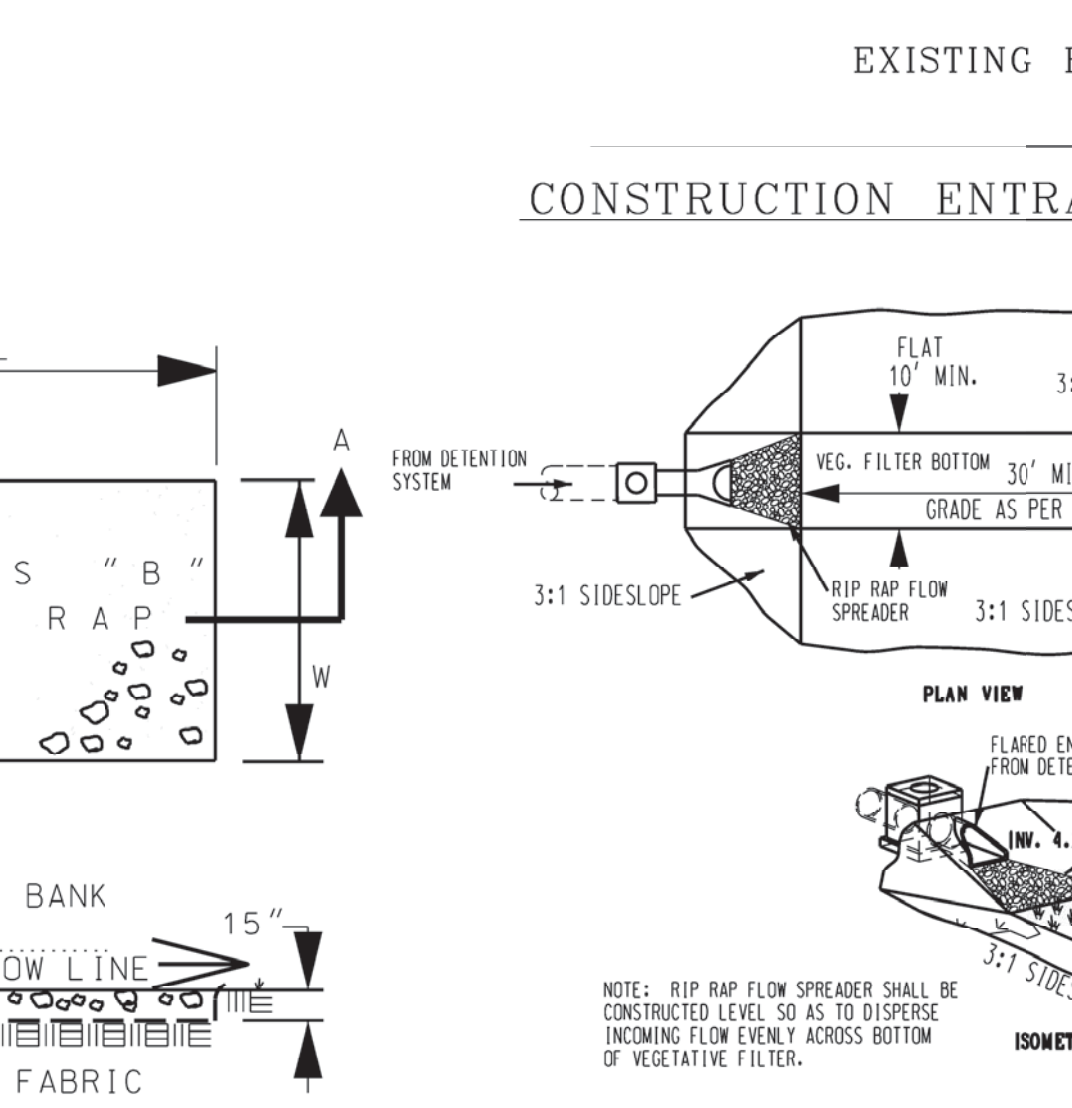
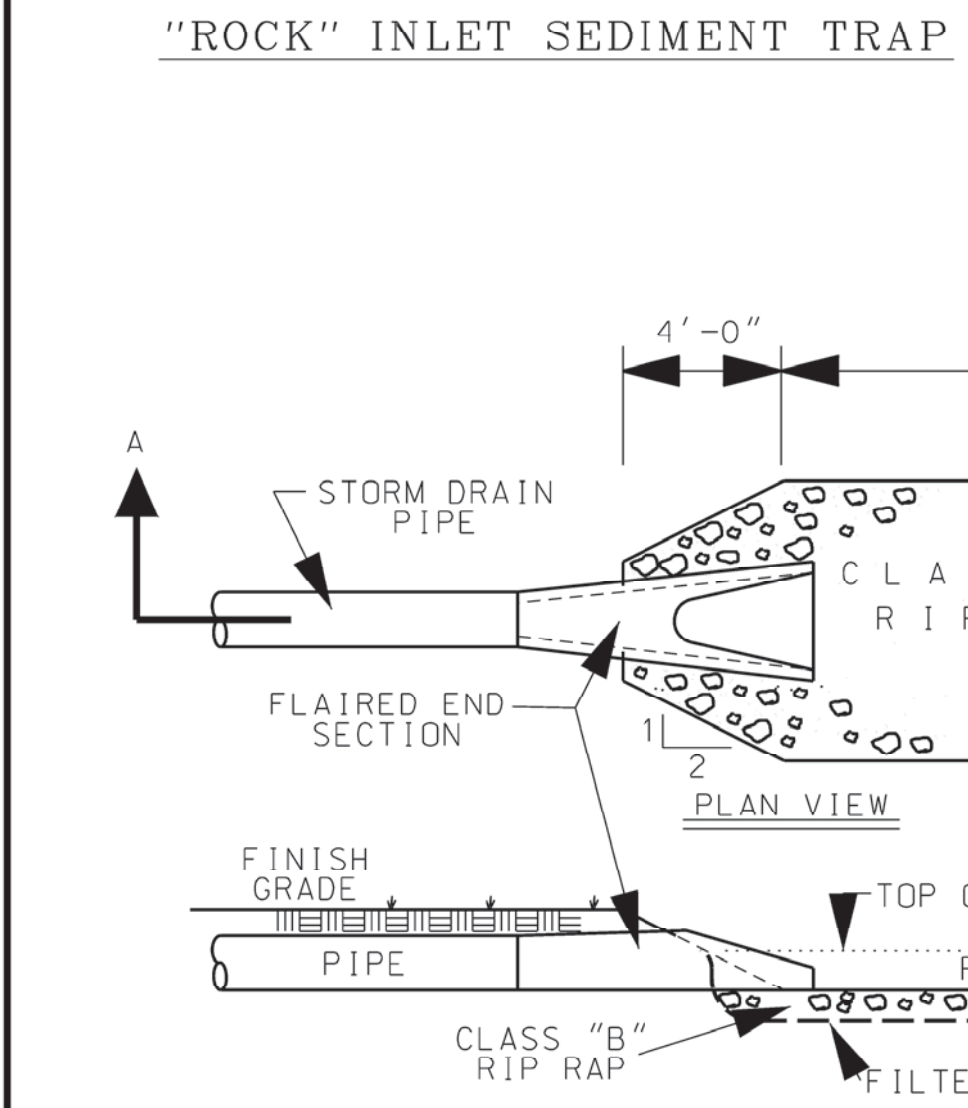
COASTAL PLAIN SITE STABILIZATION SCHEDULE

1. Fertilize and lime per recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.
2. Incorporate lime/fertilizer 4-6 inches.
3. Roughen steep slopes by tracked machinery.
4. Select species based on season. Refer to tables.
5. Broadcast seeds evenly and cover by raking or dragging a chain. Firm soil by rolling.
6. Apply straw mulch at a rate 1-2 tons per acre. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool.
7. A disk with blades set nearly straight can be used as a mulch anchoring tool.
8. Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

SOD INSTALLATION

1. Fertilize and lime per recommendations of soil tests or apply 100 lb/1,000 sf ground agricultural limestone and 25 lb/1,000 sf fertilizer. In the fall, use 10-10-10. In the spring, use 5-10-10.
2. Incorporate lime/fertilizer 4-6 inches.
3. Rake or harrow to achieve a smooth final grade.
4. Roll to achieve a smooth, firm surface on which to lay the sod.
5. Lightly rake and irrigate top layer of soil just prior to installation.
6. Lay sod in a staggered, brick-like pattern with the longest dimension perpendicular to the slope. Avoid gaps. Use a knife to fit irregular shapes.
7. Roll sod tightly after installation to ensure good sod to soil contact.
8. Irrigate initially to wet soil to a depth of 4". Keep soil moist for 2-3 weeks thereafter or until sod has taken root.

Notes:
For seeding outside of recommended dates and/or for temporary stabilization, refer to temporary seeding table.
For highly erosive areas or as directed by an engineer, sod shall be provided.



EMERGENCY AND QUANTITIES

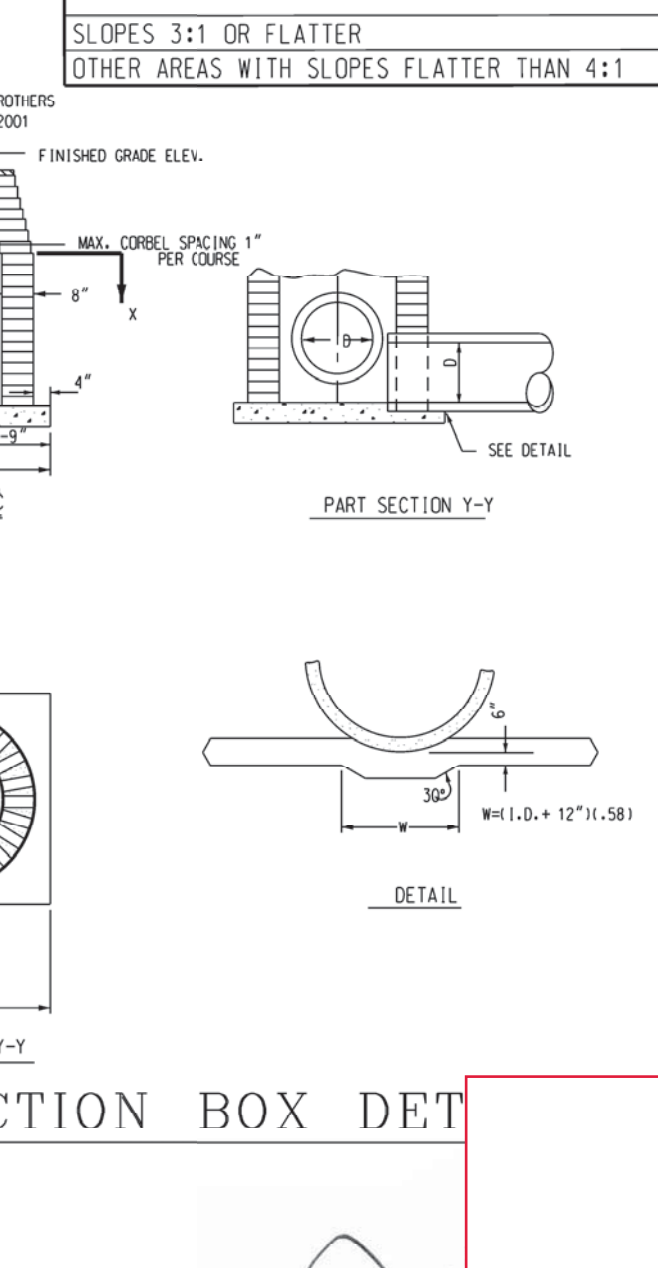
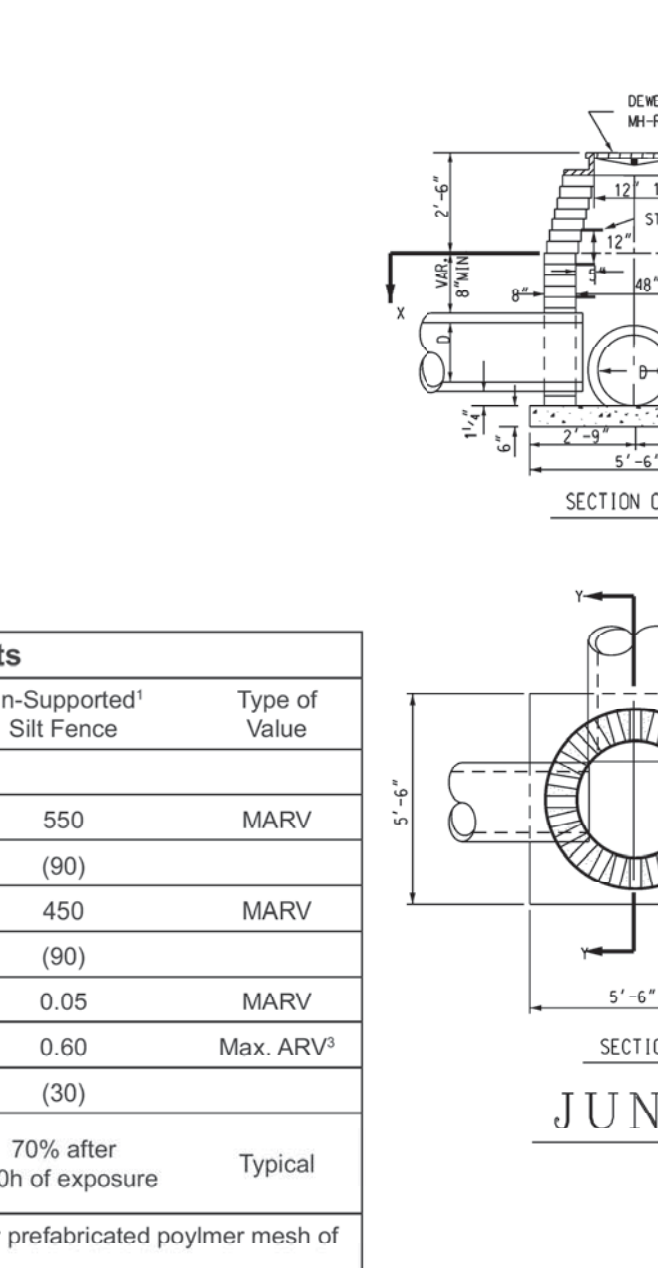
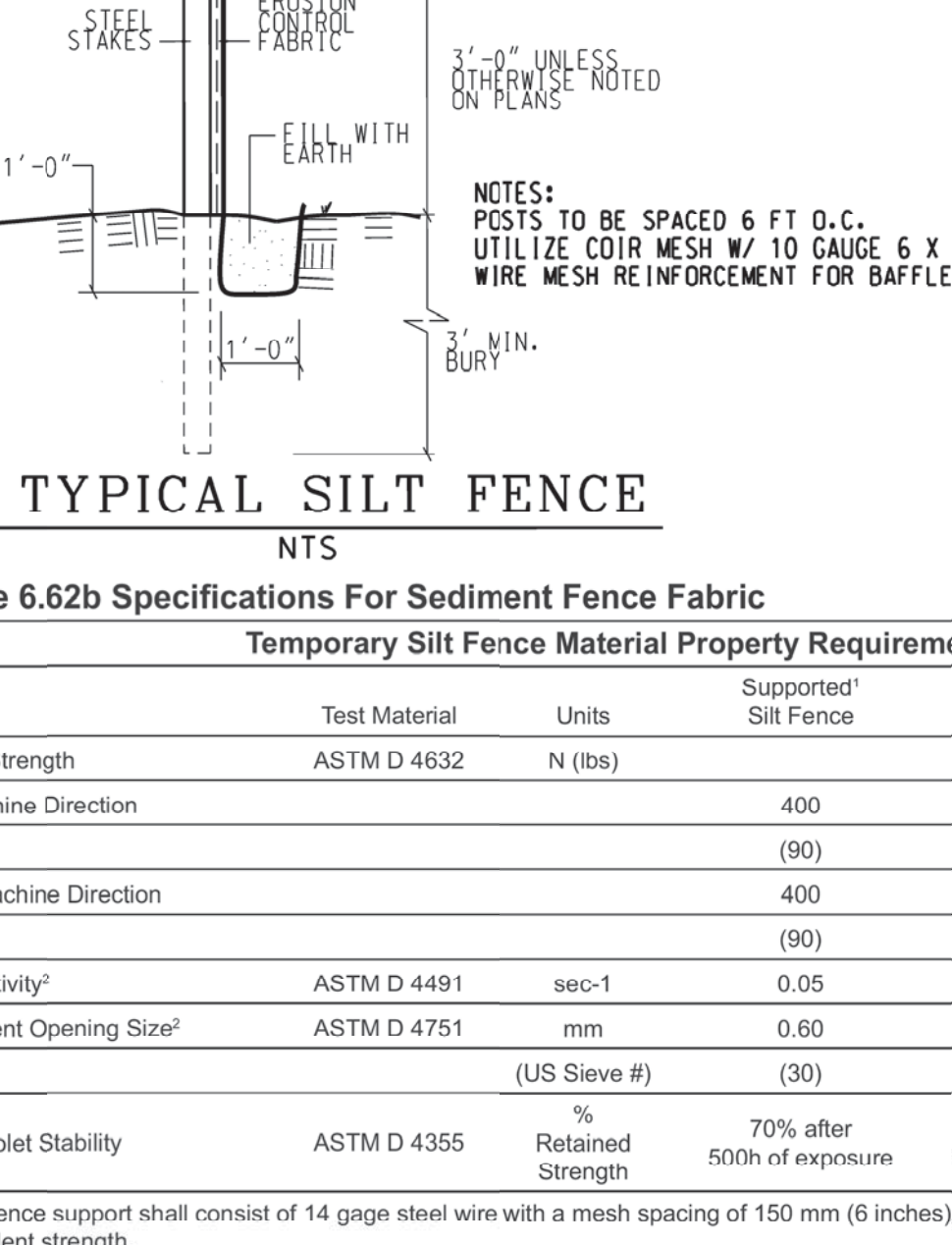
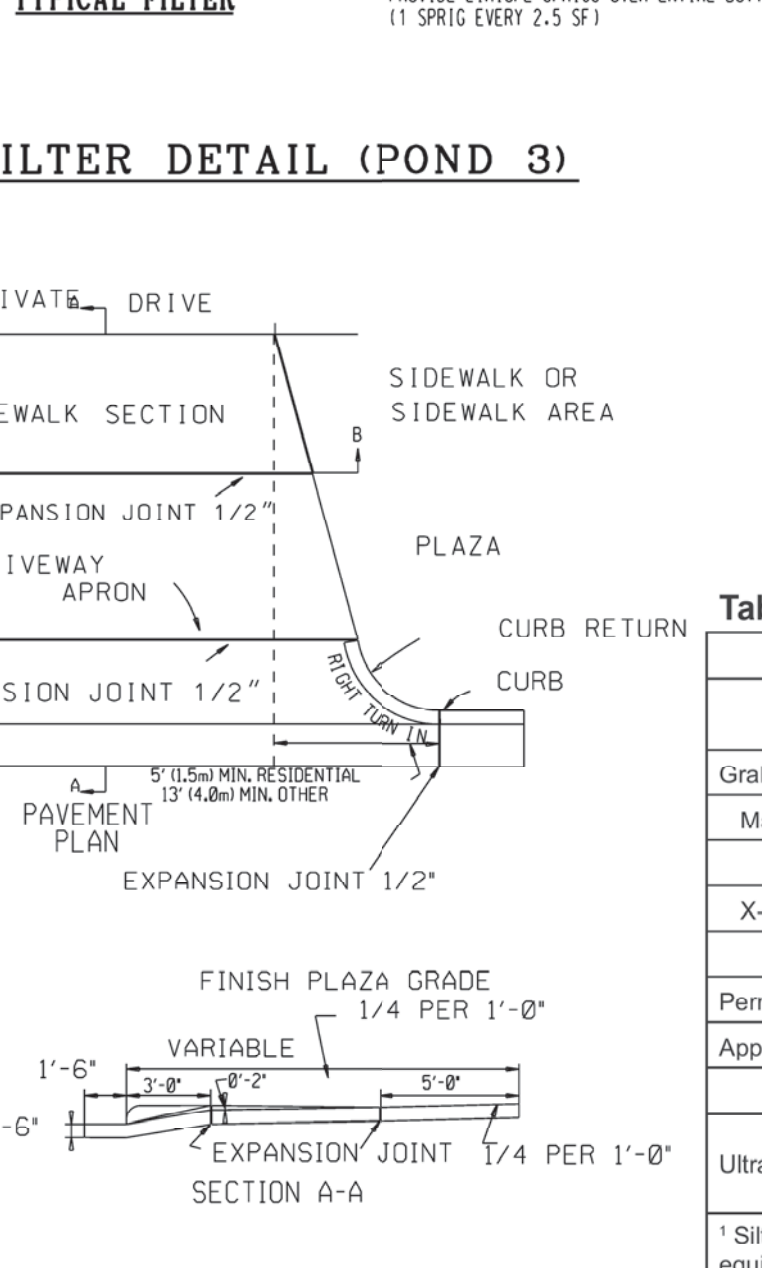
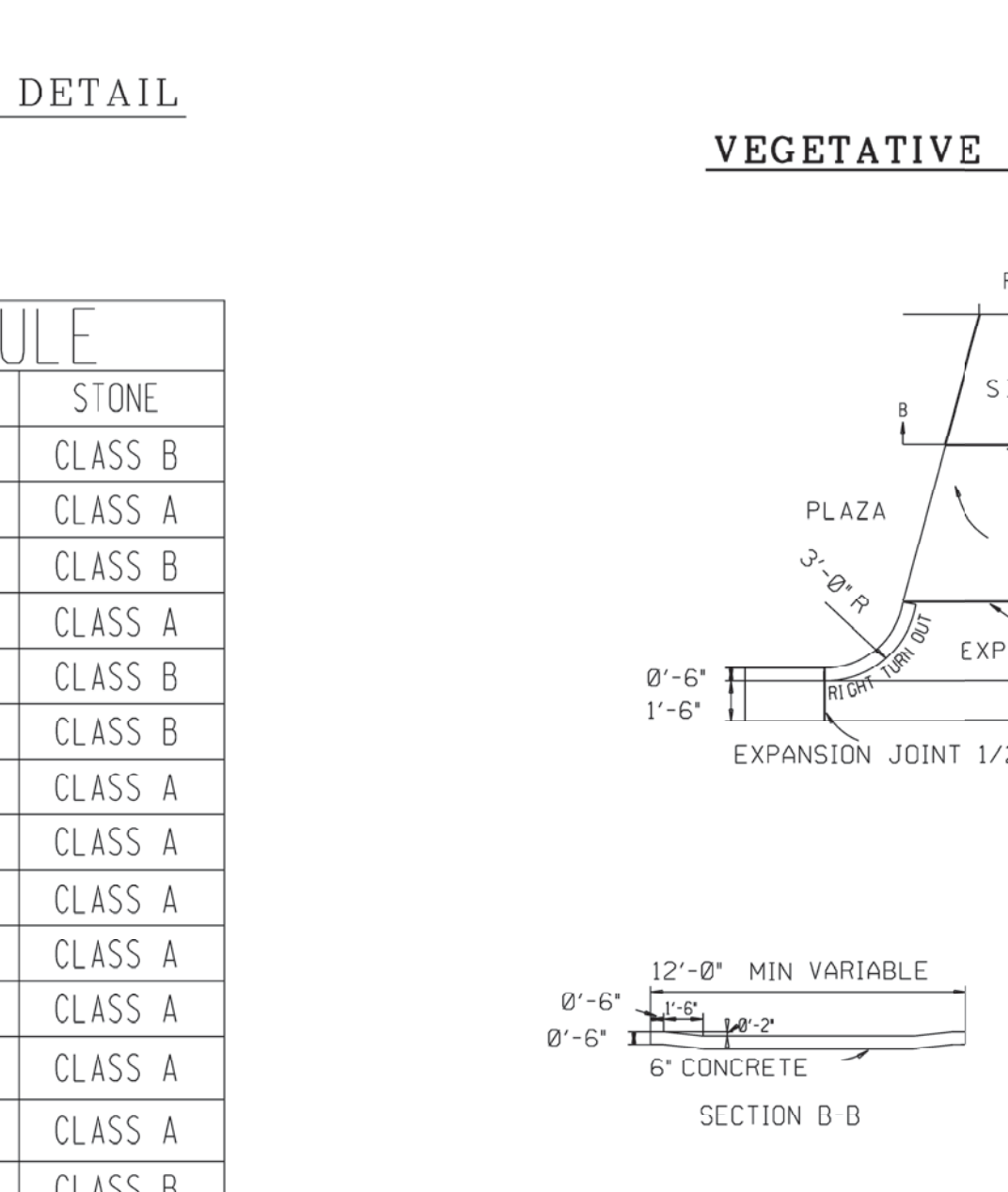
PIPE	SPAN	WIDTH	HEIGHT	IN BASE	PER FT. COPING	BRICK	MIN. C.S.	DEDUCTIONS FOR ONE PIPE
12"	3'-0"	2'-0"	2'-0"	0.267	0.313	0.877	0.871	0.878
18"	3'-0"	2'-0"	2'-0"	0.267	0.313	0.877	0.871	0.878
24"	3'-0"	2'-0"	2'-0"	0.267	0.313	0.877	0.871	0.878
30"	3'-0"	2'-0"	2'-0"	0.267	0.313	0.877	0.871	0.878

NPDES STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, AND DITCHES	7 DAYS	NONE
HIGH QUALITY WATER (H2O) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND FLATTER THAN 2:1 THEN 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE

RIP RAP APRON SCHEDULE

LOCATION	WIDTH	LENGTH	DEPTH	STONE
FES 1	6.0'	12.0'	18"	CLASS B
FES 2	4.5'	6.0'	12"	CLASS A
FES 3	7.5'	15.0'	18"	CLASS B
FES 4	6.0'	8.0'	12"	CLASS A
FES 6	9.0'	18.0'	18"	CLASS B
FES 7	6.0'	12.0'	18"	CLASS B
FES 8	6.0'	8.0'	12"	CLASS A
FES 9	3.75'	5.0'	12"	CLASS A
FES 10	6.0'	8.0'	12"	CLASS A
FES 11	4.5'	6.0'	12"	CLASS A
FES 12	3.75'	5.0'	12"	CLASS A
FES 13	3.75'	5.0'	12"	CLASS A
FES 15	6.0'	8.0'	12"	CLASS A
FES 17	9.0'	18.0'	18"	CLASS B



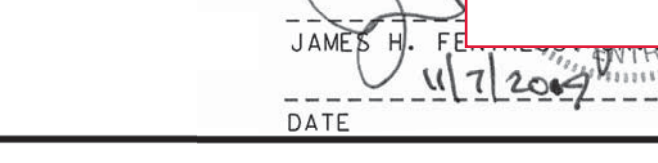
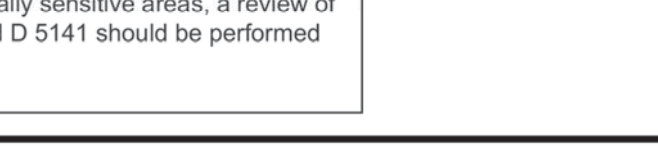
PROJECT NO.: PW-1310BC1
DRAWING NAME.: F:/MASTER/DCN/PW-318/BARNARDET.DGN



Table 6.62b Specifications For Sediment Fence Fabric

Temporary Silt Fence Material Property Requirements				
Test Material	Units	Supported ¹ Silt Fence	Un-Supported ¹ Silt Fence	Type of Value
Grab Strength	ASTM D 4632	N (lbs)		
Machine Direction		400	550	MARV
		(90)	(90)	
X-Machine Direction		400	450	MARV
		(90)	(90)	
Permittivity ²	ASTM D 4491	sec-1	0.05	0.05
Apparent Opening Size ²	ASTM D 4751	mm	0.60	0.60
		(US Sieve #)	(30)	(30)
Ultraviolet Stability	ASTM D 4355	% Retained Strength	70% after 500h of exposure	70% after 500h of exposure

¹ Silt Fence support shall consist of 14 gage steel wire with a mesh spacing of 150 mm (6 inches), or prefabricated polymer mesh of equivalent strength.
² These default values are based on empirical evidence with a variety of sediment. For environmentally sensitive areas, a review of previous experience and/or site or regionally specific geotextile tests in accordance with Test Method D 5141 should be performed by the agency to confirm suitability of these requirements.
³ As measured in accordance with Test Method D 4632.



CITY STANDARD ROADWAY DETAILS

THE MARSHES

PHASES 3, 4 & 5

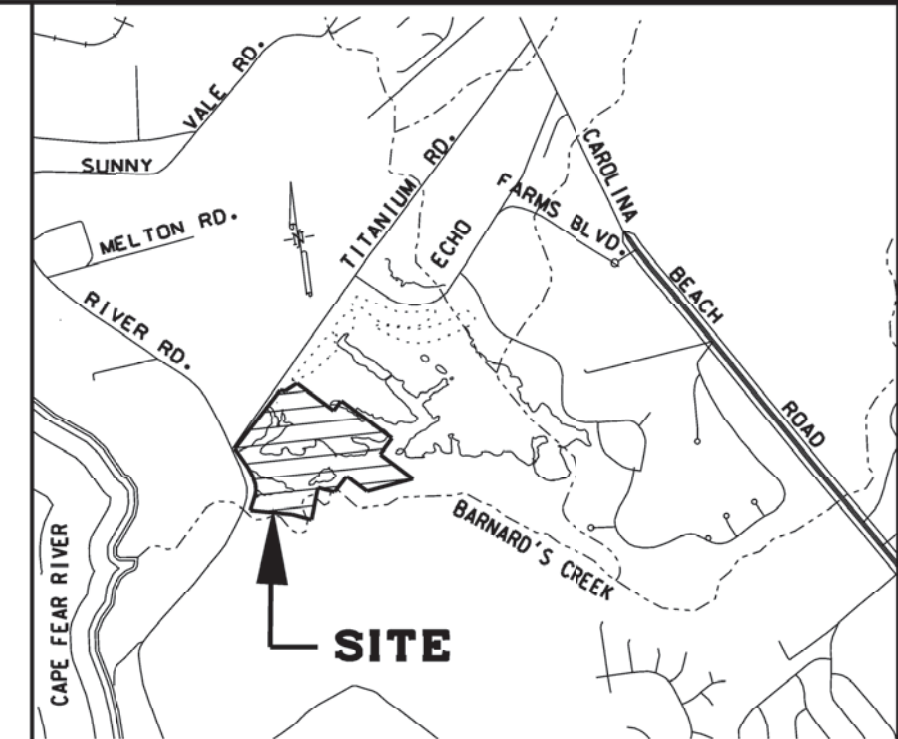
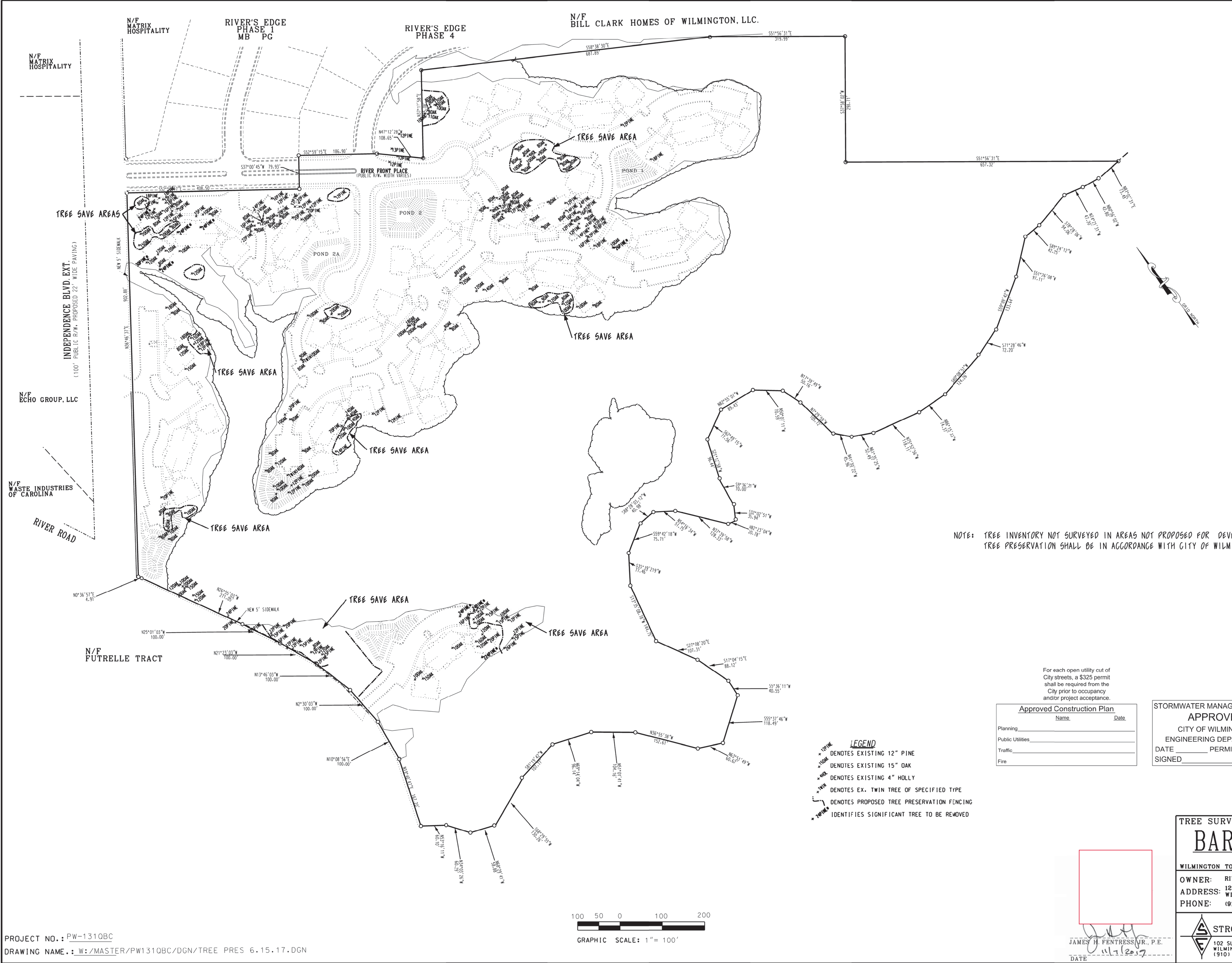
WILMINGTON TOWNSHIP CITY OF WILMINGTON NORTH CAROLINA

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PHONE: (910) 819-8814

DESIGNED: CPS
DRAWN: CPS
APPROVED: JHF
DATE: 11/14/02
SCALE: NTS

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102-D CINEMA DRIVE WILMINGTON, NC 28403
PHONE: (910) 815-0775

SHEET 6 OF 9



VICINITY MAP

N.T.S.

TOTAL AREA	57.11 AC.
AREA IN BARNARD'S CREEK RUN	+/- 2 AC.
AREA FOR DENSITY CALCULATION	55.11 AC.
TOTAL NUMBER OF REGULATED DECIDUOUS TREES	87
TOTAL NUMBER OF REGULATED CONIFEROUS TREES	142
TOTAL NUMBER OF REGULATED FLOWERING TREES	5
TOTAL NUMBER OF TREES ON PROPERTY	234
TOTAL NUMBER OF SIGNIFICANT TREES (24" DIA.)	12
TOTAL NUMBER OF REGULATED TREES REMOVED	163
TOTAL NUMBER OF REGULATED TREES SAVED	71
TOTAL NUMBER OF SIGNIFICANT TREES REMOVED	8
MITIGATION REQUIREMENT	400 IN.
MINIMUM 3" REPLACEMENT TREES	133

TREE DATA

NOTE: TREE INVENTORY NOT SURVEYED IN AREAS NOT PROPOSED FOR DEVELOPMENT.
TREE PRESERVATION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON SPECIFICATIONS

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan	
Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT
DATE _____ PERMIT # _____
SIGNED _____

- LEGEND**
- + 12PINE DENOTES EXISTING 12" PINE
 - + 15OAK DENOTES EXISTING 15" OAK
 - + 4HOLLY DENOTES EXISTING 4" HOLLY
 - + TWINS DENOTES EX. TWIN TREE OF SPECIFIED TYPE
 - + FENCING DENOTES PROPOSED TREE PRESERVATION FENCING
 - + 24PINE IDENTIFIES SIGNIFICANT TREE TO BE REMOVED

REVISIONS			
BY	NO.	DATE	DESCRIPTION
JHF	1	7/20/03	PER CITY

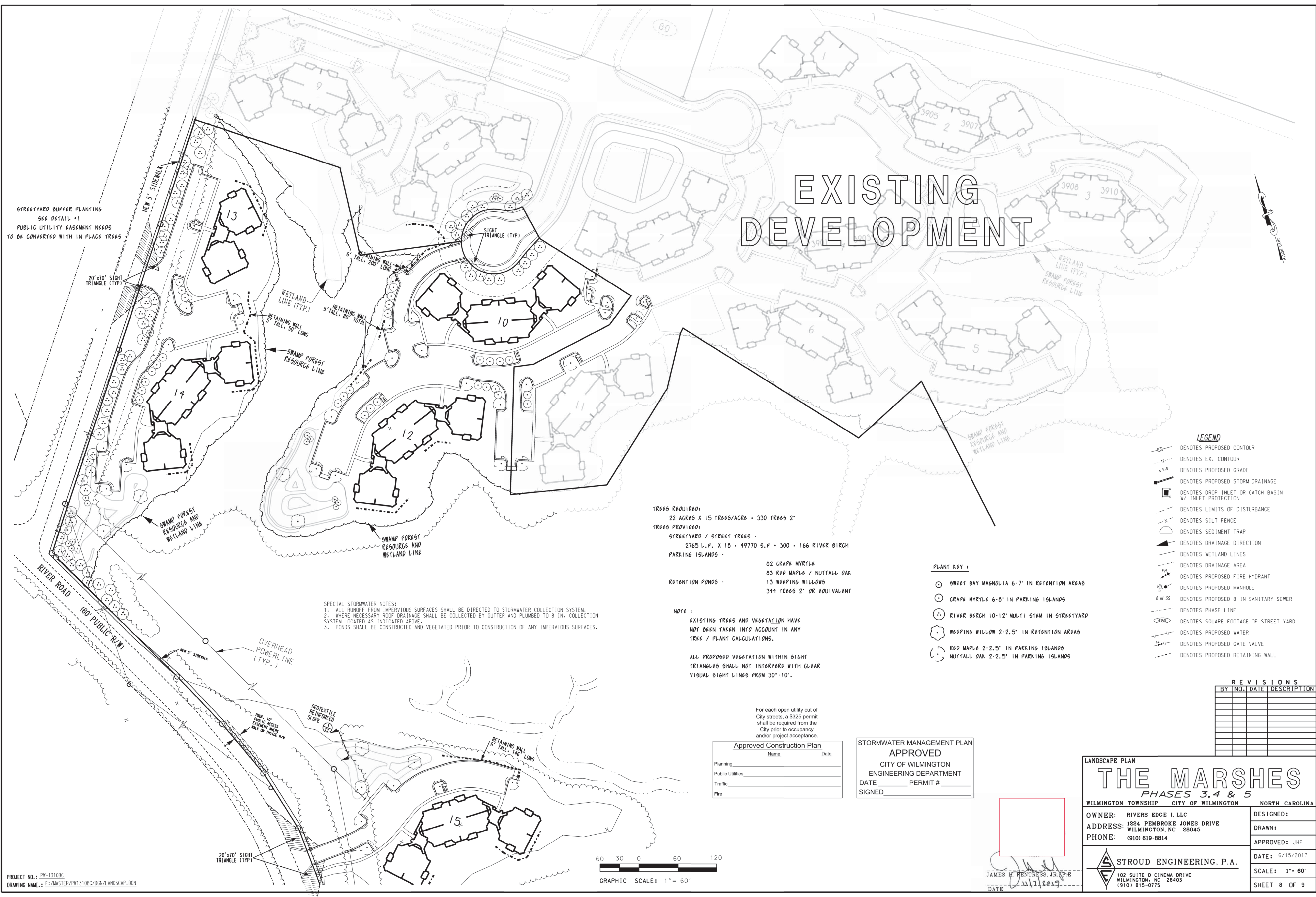
TREE SURVEY
BARNARD'S LANDING
AT ECHO FARMS
WILMINGTON TOWNSHIP CITY OF WILMINGTON NORTH CAROLINA

OWNER: RIVERS EDGE I. LLC	DESIGNED: JHF
ADDRESS: 1224 PEMBROKE JONES DRIVE WILMINGTON, NC 28045	DRAWN: JHF
PHONE: (910) 619-8814	APPROVED: JHF
DATE: 7/11/02	
SCALE: 1" = 100'	
SHEET 7 OF 9	

STROUD ENGINEERING, P.A.
102 SUITE D CINEMA DRIVE WILMINGTON, NC 28403 (910) 815-0775

JAMES H. FENTRESS, P.E.
DATE: 7/11/02

EXISTING DEVELOPMENT



STREETYARD BUFFER PLANTING
SEE DETAIL #1
PUBLIC UTILITY EASEMENT NEEDS
TO BE CONVERTED WITH IN PLACE TREES

SPECIAL STORMWATER NOTES:
1. ALL RUNOFF FROM IMPERVIOUS SURFACES SHALL BE DIRECTED TO STORMWATER COLLECTION SYSTEM.
2. WHERE NECESSARY ROOF DRAINAGE SHALL BE COLLECTED BY GUTTER AND PLUMBED TO 8 IN. COLLECTION SYSTEM LOCATED AS INDICATED ABOVE.
3. PONDS SHALL BE CONSTRUCTED AND VEGETATED PRIOR TO CONSTRUCTION OF ANY IMPERVIOUS SURFACES.

TREES REQUIRED:
22 ACRES X 15 TREES/ACRE = 330 TREES 2"
TREES PROVIDED:
STREETYARD / STREET TREES -
2765 L.F. X 18 = 49770 S.F. • 300 • 166 RIVER BIRCH
PARKING ISLANDS -
02 GRAPE MYRTLE
03 RED MAPLE / NUTTALL OAK
13 WEEPING WILLOWS
RETENTION PONDS -
344 TREES 2" OR EQUIVALENT

NOTE:
EXISTING TREES AND VEGETATION HAVE NOT BEEN TAKEN INTO ACCOUNT IN ANY TREE / PLANT CALCULATIONS.
ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

LEGEND

- DENOTES PROPOSED CONTOUR
- - - DENOTES EX. CONTOUR
- x- DENOTES PROPOSED GRADE
- DENOTES PROPOSED STORM DRAINAGE
- DENOTES DROP INLET OR CATCH BASIN W/ INLET PROTECTION
- - - DENOTES LIMITS OF DISTURBANCE
- x- DENOTES SILT FENCE
- DENOTES SEDIMENT TRAP
- ▲ DENOTES DRAINAGE DIRECTION
- - - DENOTES WETLAND LINES
- FH DENOTES DRAINAGE AREA
- WH DENOTES PROPOSED FIRE HYDRANT
- 8 IN SS DENOTES PROPOSED 8 IN SANITARY SEWER
- DENOTES PHASE LINE
- DENOTES SQUARE FOOTAGE OF STREET YARD
- DENOTES PROPOSED WATER
- DENOTES PROPOSED GATE VALVE
- DENOTES PROPOSED RETAINING WALL

PLANT KEY:

- SWEET OAY MAGNOLIA 6-7' IN RETENTION AREAS
- GRAPE MYRTLE 6-8' IN PARKING ISLANDS
- RIVER BIRCH 10-12' MULTI STEM IN STREETYARD
- WEEPING WILLOW 2-2.5' IN RETENTION AREAS
- RED MAPLE 2-2.5' IN PARKING ISLANDS
- NUTTALL OAK 2-2.5' IN PARKING ISLANDS

REVISIONS

BY	NO.	DATE	DESCRIPTION

For each open utility cut of City streets, a S325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan

Name _____ Date _____

Planning _____

Public Utilities _____

Traffic _____

Fire _____

STORMWATER MANAGEMENT PLAN

APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

LANDSCAPE PLAN

THE MARSHES

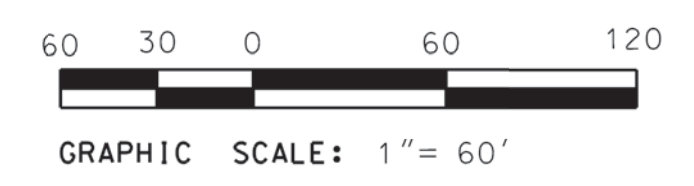
PHASES 3, 4 & 5

WILMINGTON TOWNSHIP CITY OF WILMINGTON NORTH CAROLINA

OWNER: RIVERS EDGE I, LLC
ADDRESS: 1224 PEMBROKE JONES DRIVE WILMINGTON, NC 28045
PHONE: (910) 619-8814

DESIGNED: _____
DRAWN: _____
APPROVED: JHF
DATE: 6/15/2017
SCALE: 1" = 60'
SHEET 8 OF 9

STROUD ENGINEERING, P.A.
102 SUITE D CINEMA DRIVE WILMINGTON, NC 28403 (910) 815-0755



JAMES H. HENTRESS, JR., P.E.
DATE: 6/15/2017

