

REVISIONS		
No./Date	Description	By

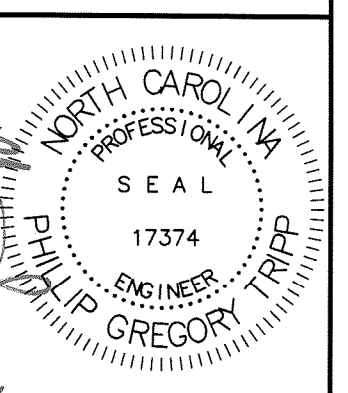
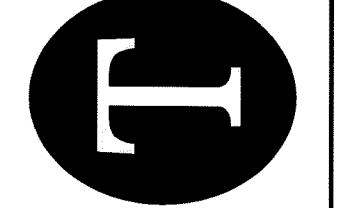
LOCATION MAP
NTS

SITE INVENTORY NOTES:

- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
- APPLICANT NAME: WILMINGTON TIRE AND AUTO, LLC
- SITE ADDRESS OF THE DEVELOPMENT: 6020 OLEANDER DRIVE
- PROPERTY OWNER: HORNE JOYCE W IRREV TRUST ETAL
- DEVELOPER: WILMINGTON TIRE AND AUTO, LLC
- PROPERTY BOUNDARY: SEE PLAN
TAX PARCEL INFORMATION: R06207-011-006-000
- PROPERTY ZONING: CB-COMMUNITY BUSINESS DISTRICT
- ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
- VICINITY MAP: SEE PLAN
- TOPOGRAPHY: SEE PLAN
- 100-YEAR FLOOD BOUNDARY: N/A
- EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
- SOIL: LEON SAND AND SEAGATE FINE SAND
- CAMA AEC: N/A
- CAMA LAND CLASSIFICATION: WATERSHED RESOURCE PROTECTION
- CONSERVATION RESOURCES: NONE
ASSOCIATED SETBACKS: N/A
- HISTORIC OR ARCHAEOLOGICAL SITE: N/A
- CEMETERIES, BURIAL SITES/GROUNDS: N/A
- FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
- WETLANDS: NONE
- PROTECTED SPECIES OR HABITAT: N/A
- EXISTING OR PROPOED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN.

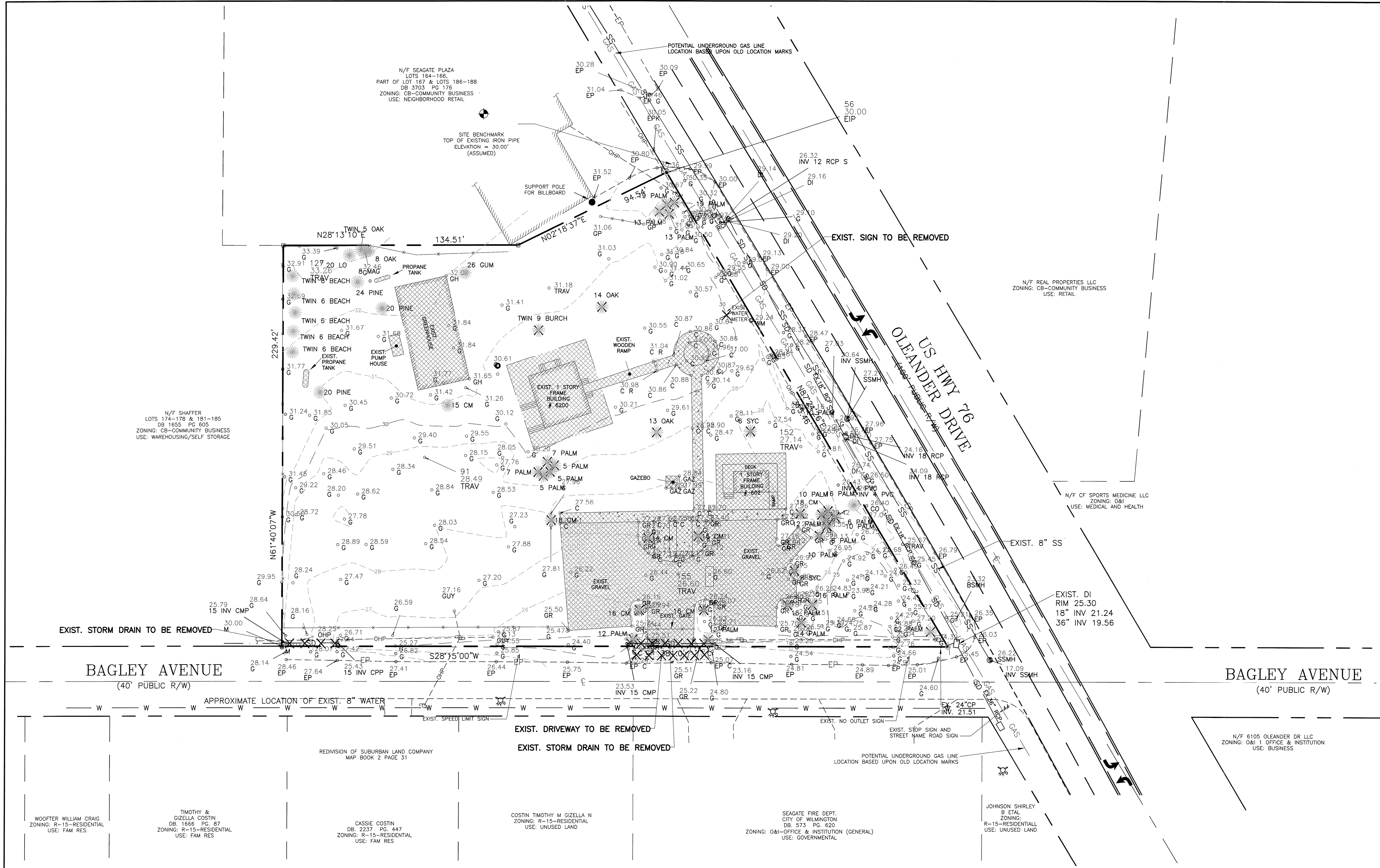
**EXISTING CONDITIONS, SITE INVENTORY AND DEMOLITION PLAN
WILMINGTON TIRE AND AUTO
6020 OLEANDER DRIVE
WILMINGTON, NORTH CAROLINA**

TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
© 2015 TRIPP ENGINEERING, P.C.



DATE 05-12-15
DESIGN PGT
DRAWN MLV

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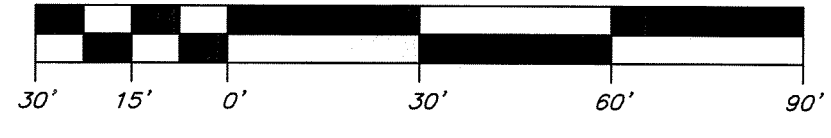


LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- EXISTING TREE
- TREE TO BE REMOVED
- EXISTING STORMWATER TO BE REMOVED
- DEMO

SITE PLAN

BAR SCALE 1"=30'



Approved Construction Plan

Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____

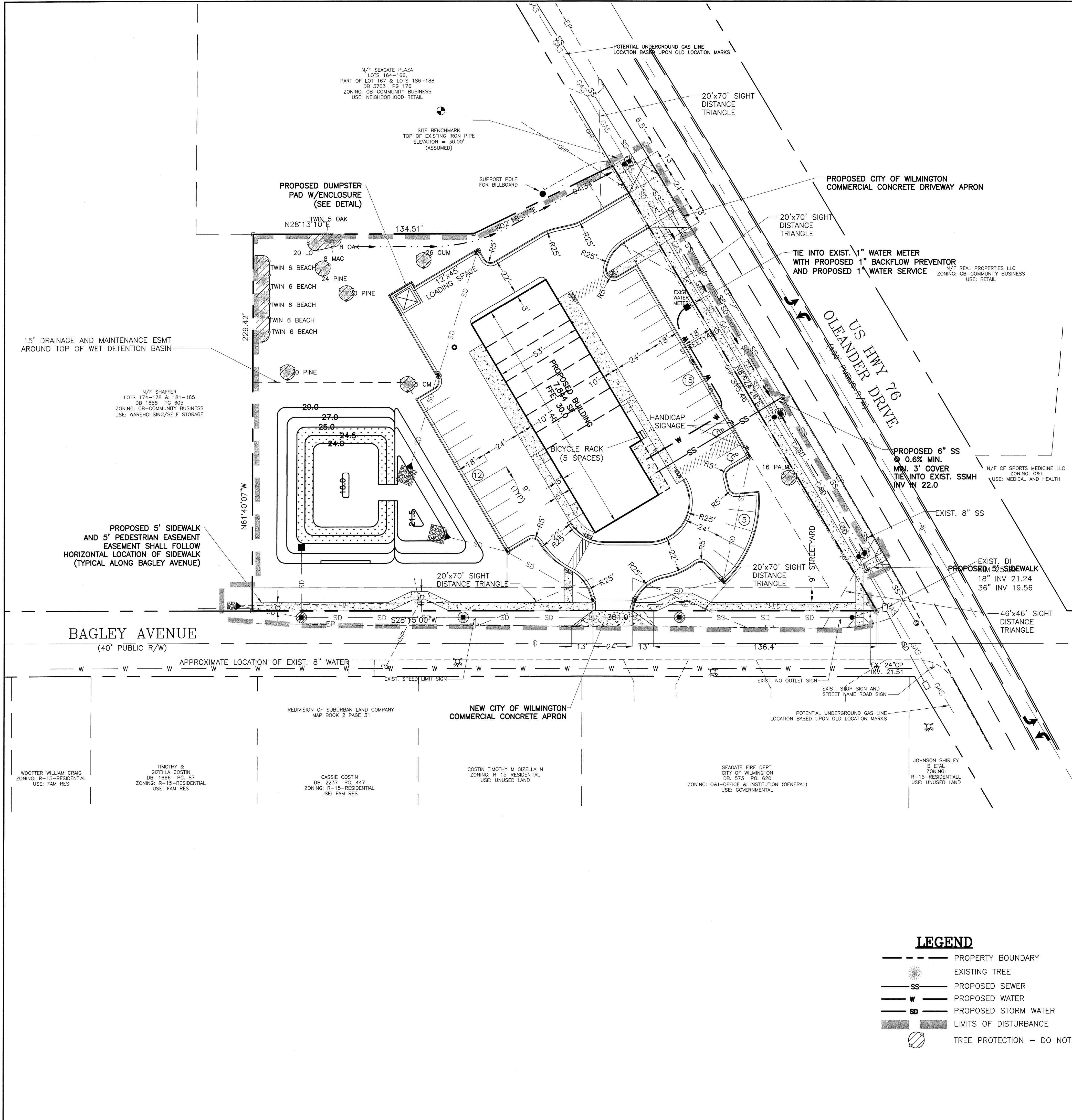
STORMWATER MANAGEMENT PLAN APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

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



NOTES:

ZONING

- 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY PATRICK C. BRISTOW, LAND SURVEYING, PC.
- 2) PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- 4) EXISTING EASEMENTS AS SHOWN.
- 5) CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.

SOLID WASTE

- 1) SITE TO USE ON-SITE DUMPSTER.

TRAFFIC

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 2) TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- 3) CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 4) CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
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LANDSCAPING

- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
- 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
- 3) PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
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CFPUA

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCCHH OR ASSE.
- 6) PUBLIC WATER AND SEWER EXISTING.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

DRAINAGE

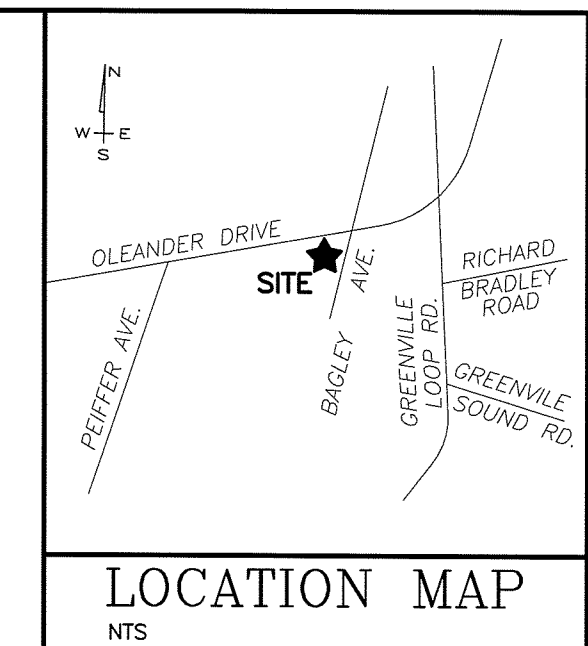
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PLANNING

- 1) ALL PERMANENT STORAGE OF MATERIALS, MERCHANDISE AND LUBRICATION, REPAIR AND SERVICING EQUIPMENT SHALL BE WITHIN THE PRINCIPAL BUILDING.
- 2) ALL REPAIR WORK SHALL BE CONDUCTED WITHIN THE PRINCIPAL BUILDING.
- 3) NO OPERATOR SHALL PERMIT THE STORAGE OF MOTOR VEHICLES FOR A CONTINUOUS PERIOD IN EXCESS OF TWENTY-FOUR (24) HOURS UNLESS THE VEHICLE IS ENCLOSED IN THE PRINCIPAL BUILDING.
- 4) ACCESSORY BUILDINGS ARE PROHIBITED.
- 5) AUTOMOTIVE WRECKERS OR OTHER SERVICE VEHICLES SHALL BE STORED INSIDE THE PRINCIPAL BUILDING AFTER BUILDING HOURS.
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SITE DATA:

PROPERTY OWNER	HORNE JOYCE W IRREV TRUST ETAL
PROJECT ADDRESS	6020 OLEANDER DR
PIN NUMBER	RO6207-011-006-000
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE	
ZONING DISTRICT	CB-COMMUNITY BUSINESS
DISTURBED AREA	1.87 Ac.
SETBACKS REQUIRED	FRONT: 20' REAR: 10' INTERIOR SIDE: 0' CORNER SIDE: 20'
PROPOSED BUILDING SETBACKS	FRONT: 70' REAR: 133' INTERIOR SIDE: 44' CORNER SIDE: 47'
TRACT AREA	74,052 SF (1.70 AC)
BUILDING USE	AUTOMOTIVE
EXISTING BUILDING AREA	5,600 SF
PROPOSED BUILDING AREA (GROSS)	7,844 SF
BUILDING LOT COVERAGE (7,844/74,052)	10.5%
NUMBER OF BUILDINGS	1
NUMBER OF UNITS	21.583
NUMBER OF STORIES	1
SF PER FLOOR (GROSS)	7,844 SF
EXISTING IMPERVIOUS AREAS:	
EXISTING BUILDING	5,600 SF
EXISTING CONCRETE	2,075 SF
EXISTING GRAVEL	6,265 SF
EXISTING IMPERVIOUS AREA	14,640 SF (19.77%)
PROPOSED IMPERVIOUS AREAS:	
PROPOSED BUILDING FOOTPRINT	7,844 SF
PROPOSED ASPHALT + CURB	21,230 SF
PROPOSED CONCRETE	2,290 SF
FUTURE	1,900 SF
EXISTING IMPERVIOUS (TO REMAIN)	0 SF
TOTAL IMPERVIOUS AREA	33,264 SF (45%)
PARKING REQUIRED: (RETAIL PARTS SALES) 2,490 SF	
MAXIMUM: 1/200	16
MINIMUM: 1/400	6
PARKING REQUIRED: (REPAIR SERVICE) 5,354 SF	
MAXIMUM: 1/400	13
MINIMUM: 1/600	9
TOTAL PARKING REQUIRED:	MAXIMUM: 25 MINIMUM: 15
TOTAL PARKING PROVIDED:	31
CAMA LAND USE:	WATERSHED RESOURCE PROTECTION
PUBLIC WATER AND SEWER BY CFPUA	
EXISTING SEWER FLOW:	1,166 GPD
EXISTING WATER FLOW:	1,060 GPD
PROPOSED WATER FLOW:	
(25 GPD PER EMPLOYEE x 10 EMPLOYEES x 110%)	275 GPD
PROPOSED SEWER FLOW:	
25 GPD PER EMPLOYEE x 10 EMPLOYEES)	250 GPD
HANDICAP SPOTS REQUIRED (1-25 SPOTS= 1 HANDICAP SPOT)	PROPOSED
32 SPOTS/25=2	2 HANDICAP SPOTS
BICYCLE PARKING REQUIRED (31 SPACES)	5 BICYCLE PARKS
BICYCLE PARKING PROPOSED	5 BICYCLE PARKS

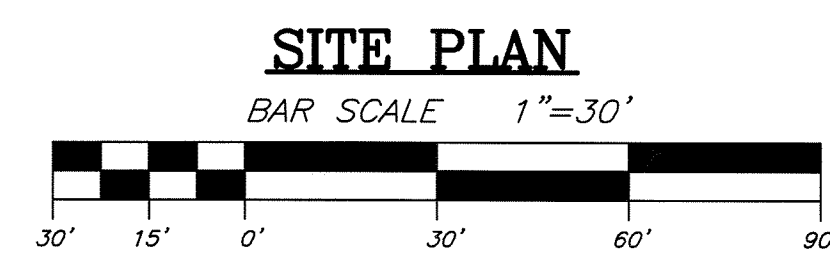


REVISIONS

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LEGEND

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☀	EXISTING TREE
SS	PROPOSED SEWER
W	PROPOSED WATER
SD	PROPOSED STORM WATER
▭	LIMITS OF DISTURBANCE
⊙	TREE PROTECTION - DO NOT DISTURB



Approved Construction Plan

Name	Date

STORMWATER MANAGEMENT PLAN APPROVED

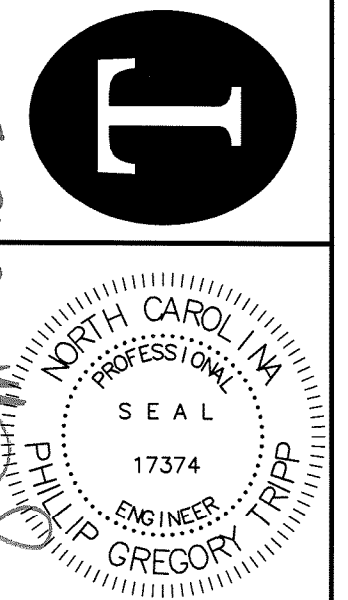
CITY OF WILMINGTON ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

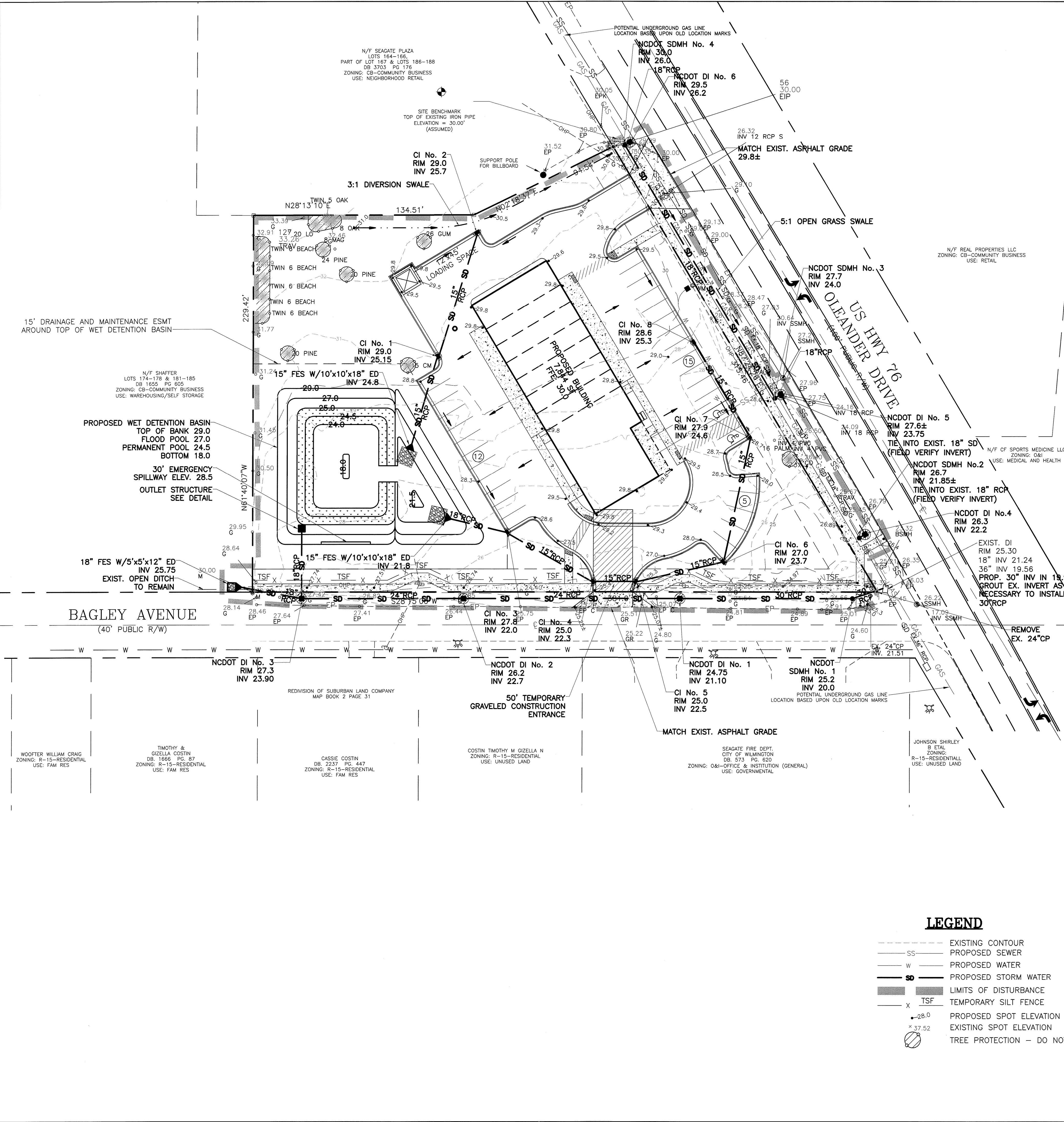
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 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
 License No. 01-1272



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DESIGN PGT
DRAWN MLV



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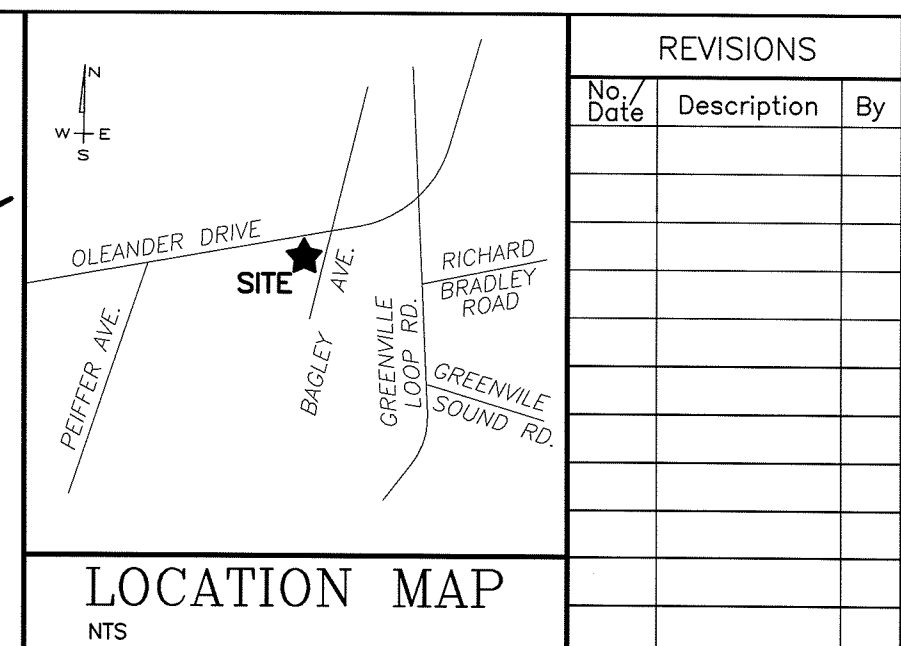
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LEGEND

- EXISTING CONTOUR
- SS PROPOSED SEWER
- W PROPOSED WATER
- SD PROPOSED STORM WATER
- LIMITS OF DISTURBANCE
- X TSF
- 28.0 PROPOSED SPOT ELEVATION
- 37.52 EXISTING SPOT ELEVATION
- TREE PROTECTION - DO NOT DISTURB

SITE PLAN

BAR SCALE 1"=30'



SITE DATA:

PROPERTY OWNER HORNE JOYCE W IRREV TRUST ETAL
 PROJECT ADDRESS 6020 OLEANDER DR
 PIN NUMBER R06207-011-006-000

AREA NOT IN A FEMA 100-YEAR FLOOD ZONE.
 ZONING DISTRICT CB-COMMUNITY BUSINESS
 DISTURBED AREA 1.87 Ac.

SETBACKS REQUIRED FRONT: 20'
 REAR: 10'
 INTERIOR SIDE: 0'
 CORNER SIDE: 20'

PROPOSED BUILDING SETBACKS FRONT: 70'
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 INTERIOR SIDE: 44'
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TRACT AREA 74,052 SF (1.70 AC)
 BUILDING USE AUTOMOTIVE
 EXISTING BUILDING AREA 5,600 SF
 PROPOSED BUILDING AREA (GROSS) 7,844 SF
 BUILDING LOT COVERAGE (7,844/74,052) 10.5%
 NUMBER OF BUILDINGS 1
 NUMBER OF UNITS 1
 BUILDING HEIGHT 21.583'
 NUMBER OF STORIES 1
 SF PER FLOOR (GROSS) 7,844 SF

EXISTING IMPERVIOUS AREAS:
 EXISTING BUILDING 5,600 SF
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PARKING REQUIRED: (RETAIL PARTS SALES) 2,490 SF
 MAXIMUM: 1/200
 MINIMUM: 1/400
 12
 6

PARKING REQUIRED: (REPAIR SERVICE) 5,354 SF
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TOTAL PARKING REQUIRED: MAXIMUM: 25
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TOTAL PARKING PROVIDED: 31

CAMA LAND USE: WATERSHED RESOURCE PROTECTION

PUBLIC WATER AND SEWER BY CFPUA
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HANDICAP SPOTS REQUIRED
 1-25 SPOTS= 1 HANDICAP SPOT) PROPOSED
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BICYCLE PARKING REQUIRED (31 SPACES) 5 BICYCLE PARKS
 BICYCLE PARKING PROPOSED 5 BICYCLE PARKS

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN
 APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

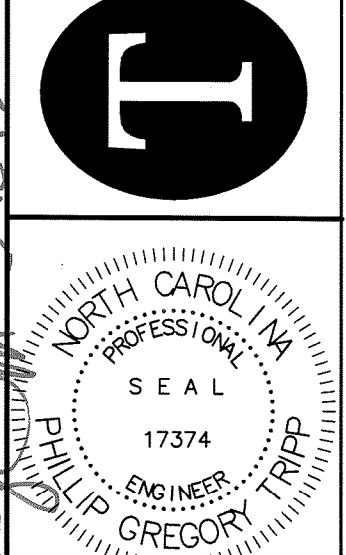
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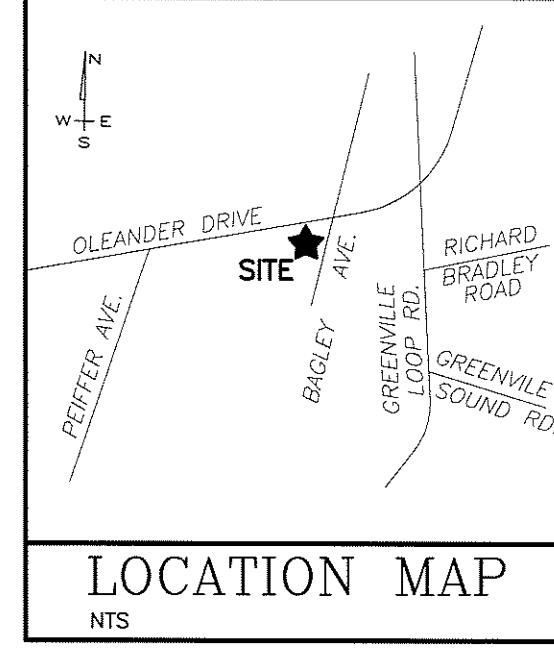
GRADING, DRAINAGE, EROSION CONTROL AND STORMWATER MANAGEMENT
WILMINGTON TIRE AND AUTO
 6020 OLEANDER DRIVE
 WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
 © 2015 TRIPP ENGINEERING, P.C.



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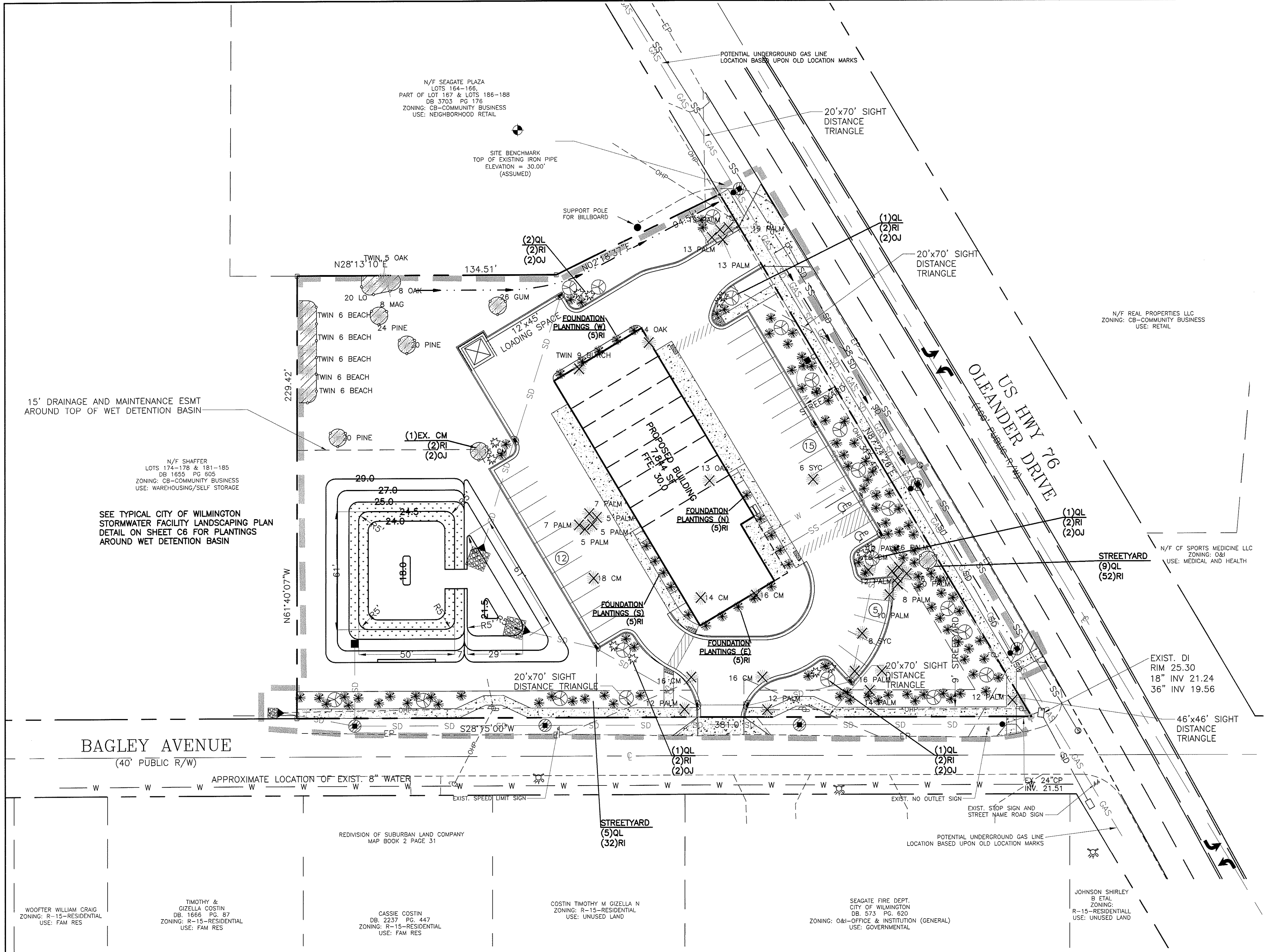
- LANDSCAPING**
- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
 - 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
 - 3) PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 - 4) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
 - 5) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.

PLANT LIST

KEY NO.	TYPE	COMMON NAME	SCIENTIFIC NAME	HT. - "HEIGHT" MIN. SIZE	PLANTING REMARKS
QL	20	LARGE SHADE TREE	LAUREL OAK	QUERCUS LAURIFOLIA	3" CAL. AS SHOWN
RI	116	SHRUB	INDIAN HAWTHORN	RHAPHIOLEPIS INDICA	3 GAL. AS SHOWN
OJ	12	GROUND COVER	MONDO GRASS	OPHIPOGON JAPONICUS	3 GAL. AS SHOWN

TOTAL ASPHALT+CURB 21,230 SF
 20% INTERIOR SHADING REQUIRED 4,246 SF
 INTERIOR SHADING PROVIDED 4,949 SF
 (7 INTERIOR ISLAND TREES @ 707 SF EA.)

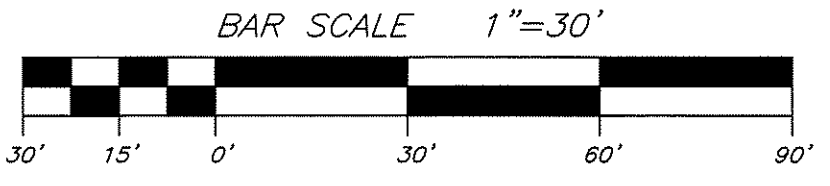
	REQUIRED	PROPOSED
STREETYARD (OLEANDER): 315.46-25*18= 5,228 SF	9 TREE(S) 52 SHRUB(S)	9 TREE(S) 52 SHRUB(S)
STREETYARD (BAGLEY): 381.59-25*18/2= 3,209 SF	5 TREE(S) 32 SHRUB(S)	5 TREE(S) 32 SHRUB(S)
DISTURBED AREA: 1.87 Ac. (15 TREES PER DISTURBED ACRE)	28 TREES	33 TREES 20 NEW 13 EXISTING
FOUNDATION PLANTINGS: (NORTH) 76x21.583x12x	197 SF	239 SF (SEE PLAN)
FOUNDATION PLANTINGS: (SOUTH) 76x21.583x12x	197 SF	202 SF (SEE PLAN)
FOUNDATION PLANTINGS: (EAST) 53x21.583x12x	137 SF	187 SF (SEE PLAN)
FOUNDATION PLANTINGS: (WEST) 53x21.583x12x	137 SF	155 SF (SEE PLAN)



LEGEND

- PROPERTY BOUNDARY
- ☀ EXISTING TREE
- ✕ TREE TO BE REMOVED
- ⊙ TREE PROTECTION - DO NOT DISTURB
- SS PROPOSED SEWER
- W PROPOSED WATER
- SD PROPOSED STORM WATER
- ▨ LIMITS OF DISTURBANCE

SITE PLAN



PROPERTY OWNER HORNE JOYCE W IRREV TRUST ETAL
 PROJECT ADDRESS 6020 OLEANDER DR
 PIN NUMBER R06207-011-006-000

Approved Construction Plan

Name	Date

Planning _____
 Traffic _____
 Fire _____

STORMWATER MANAGEMENT PLAN
 APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT

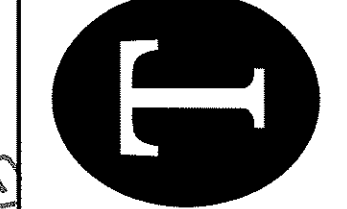
DATE _____ PERMIT # _____

SIGNED _____

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

LANDSCAPE PLAN
WILMINGTON TIRE AND AUTO
 6020 OLEANDER DRIVE
 WILMINGTON, NORTH CAROLINA

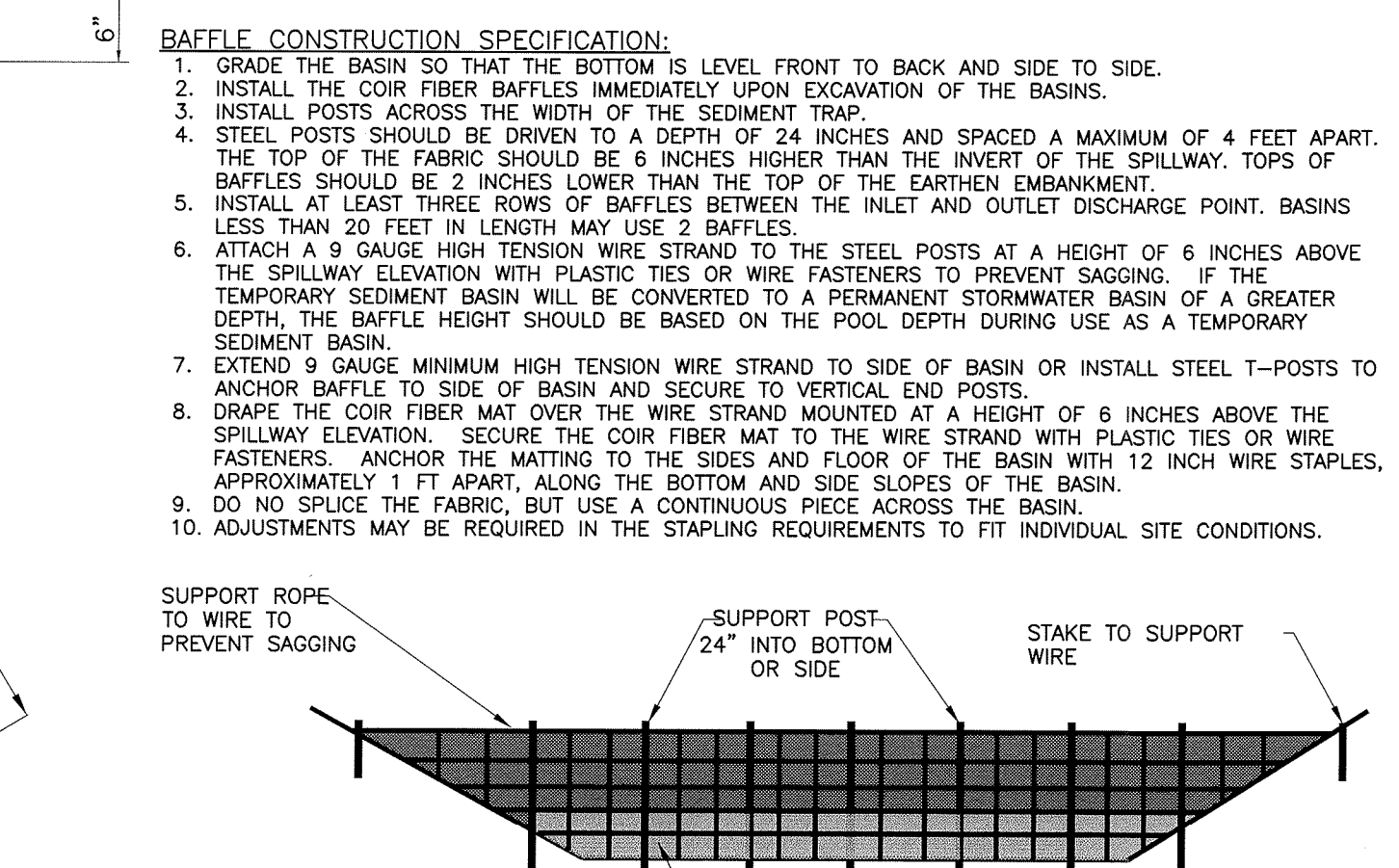
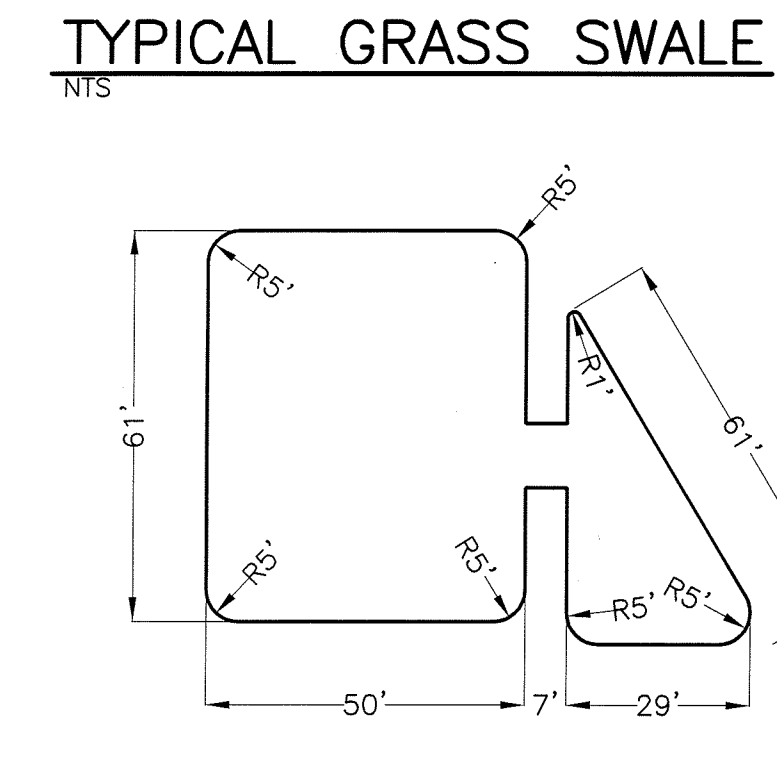
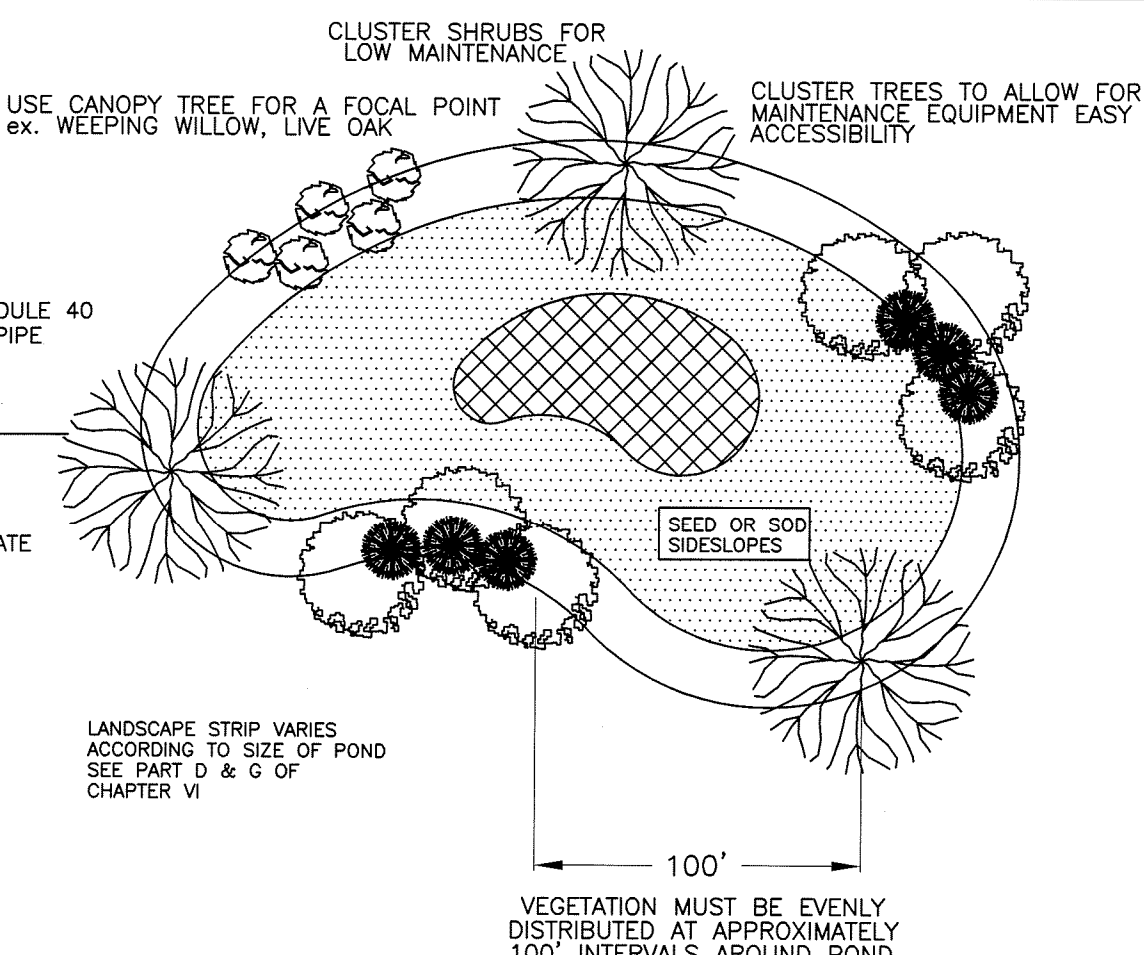
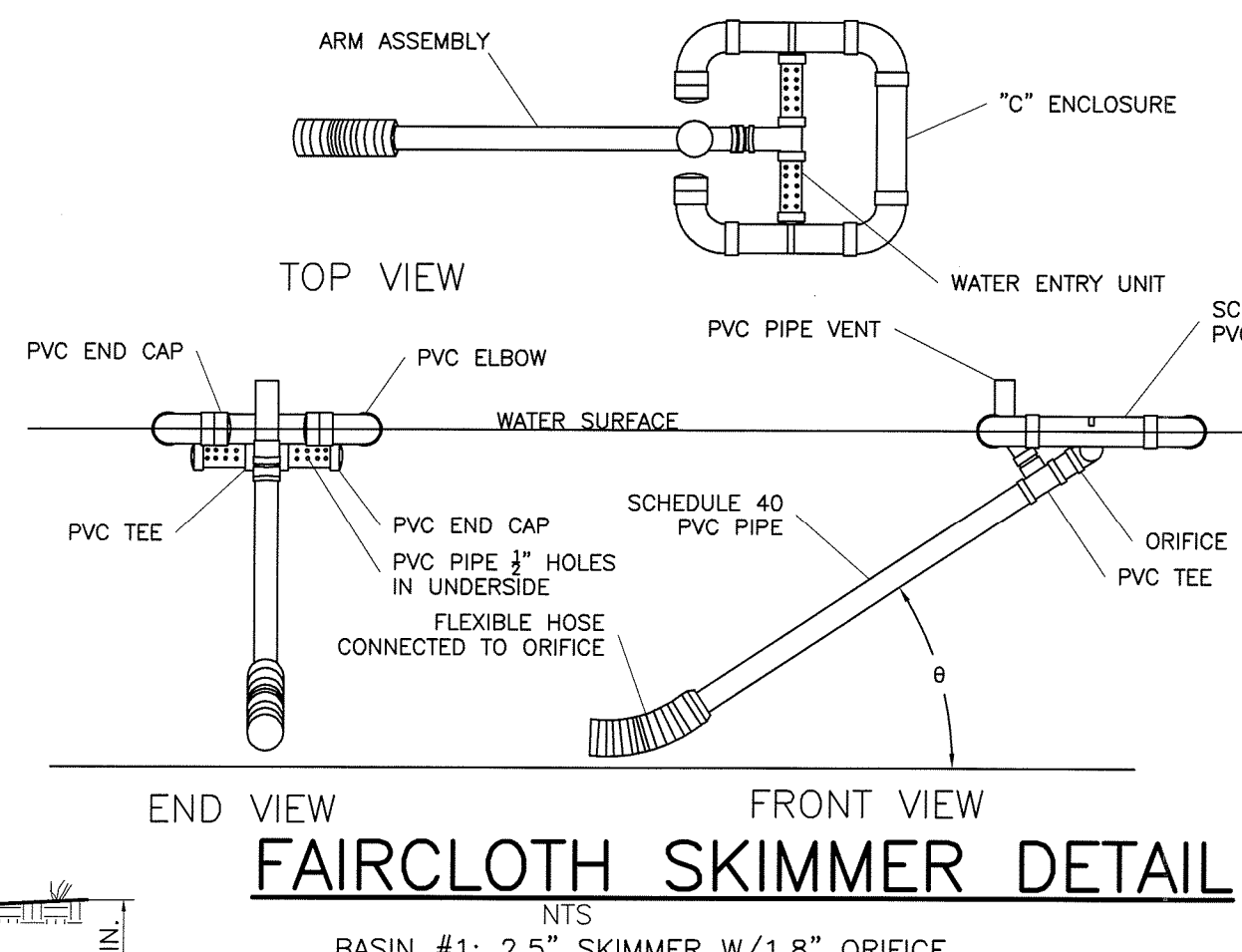
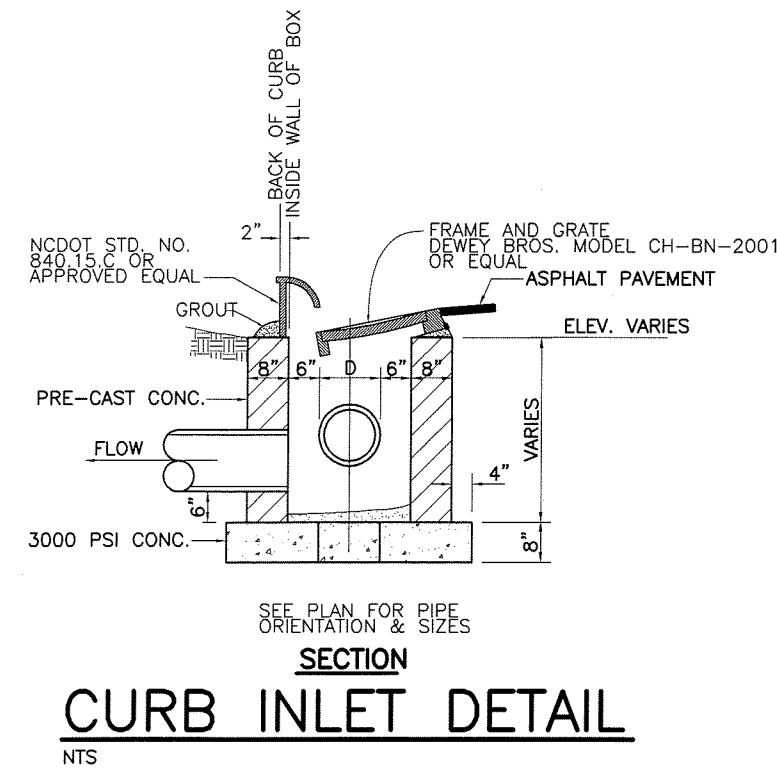
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
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DATE 05-12-15
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SHEET 4 OF 6
 14045

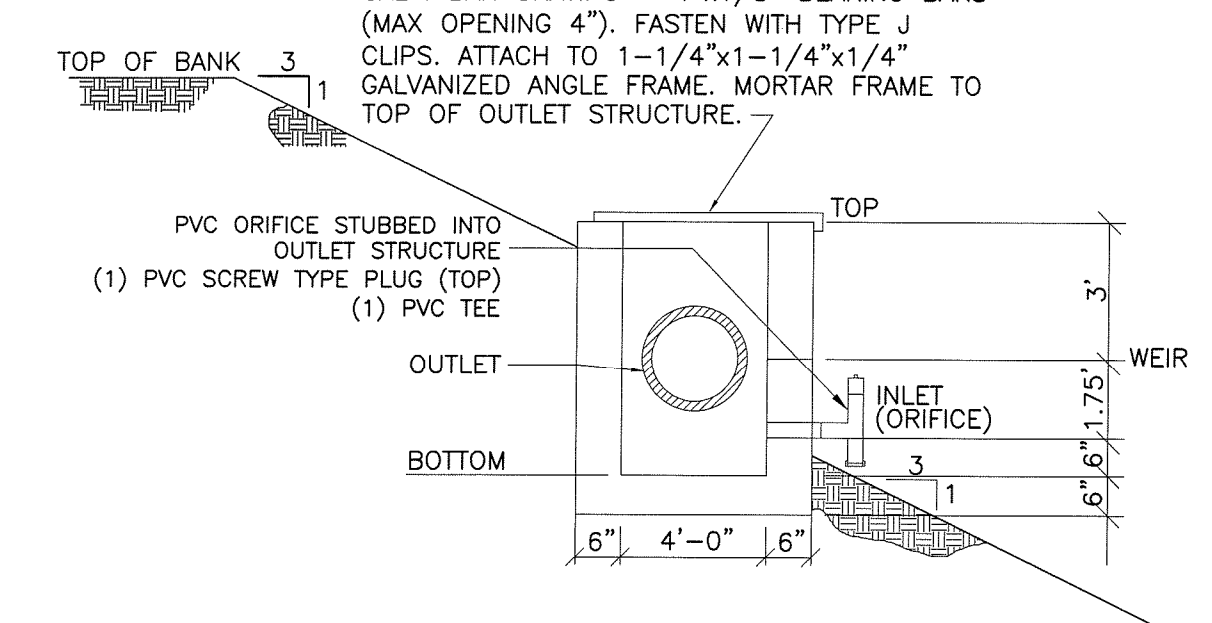
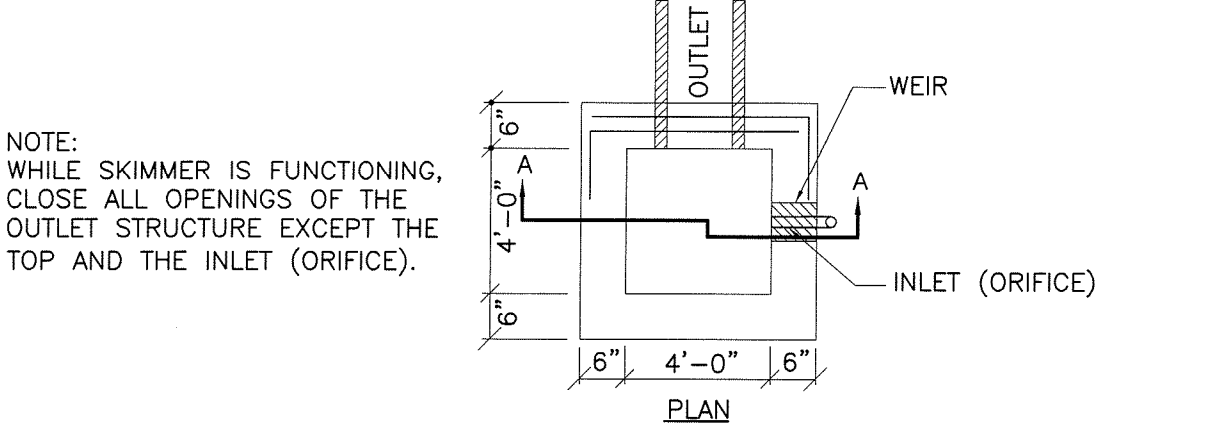


TYPICAL CITY OF WILMINGTON STORMWATER FACILITY LANDSCAPING PLAN
NTS (SD 15-16)

Notes:
1. If possible, locate pond where vegetation exists.
2. Suggest minimal clearing to conserve visual quality of site and minimize the additional of tree planting. An irregular shape provides a more natural appearance.
3. Landscape strip shall be a maximum slope of 7:1 in order to plant vegetation.
4. Provide a minimum of 3 inches of mulch around all vegetation.

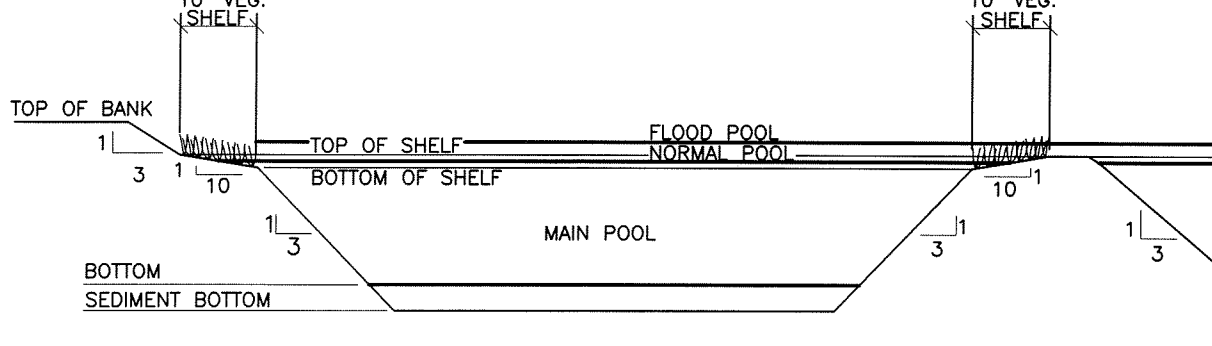
WET DETENTION BASIN PERMANENT POOL DIMENSIONS
NTS

OUTLET STRUCTURE DATA						
BASIN #	TOP ELEV.	BOTTOM ELEV.	INLET (ORIFICE) SIZE/INVERT	WEIR SIZE/INVERT	OUTLET SIZE	OUTLET INV. IN/ INV. OUT
1	27.75	23.75	1.0"/24.50	12"/27.0	18 inch	24.0/21.51



WET DETENTION BASIN OUTLET STRUCTURE
NTS

WET DETENTION BASIN DATA							
BASIN #	TOP OF BANK ELEV.	TEMPORARY POOL ELEV.	PERMANENT POOL ELEV.	SHWT	EMERGENCY SPILLWAY EL.	BOTTOM MAIN/FOREBAY	SEDIMENT BOTTOM MAIN/FOREBAY
1	29.00	27.00	24.50	26.0	28.50	18.0/21.5	17.0/20.5



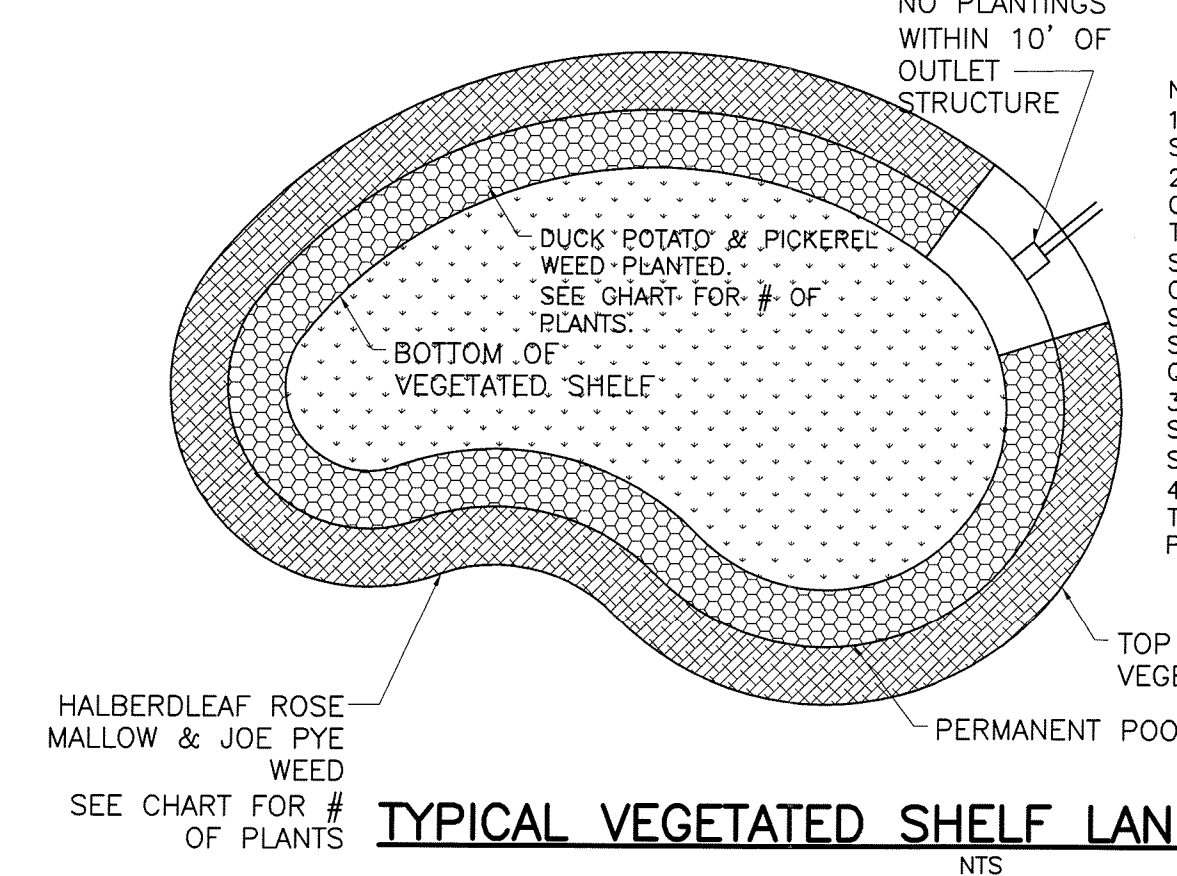
* POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
* 10:1 VEGETATED SHELF TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEED, DUCK POTATO, SWAMP ROSE, BLUE FLAG AND CARDINAL FLOWER
* A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES

WET DETENTION BASIN & FOREBAY SECTION
NTS

CROSS SECTION OF POROUS BAFFLE
NTS

NORMAL POOL TO SHELF BOTTOM = 958 SF 50 PLANTS PER 200 SF = 240 PLANTS					
PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	CALIPER
HERBACEOUS	120	SAGITTARIA LATIFOLIA	DUCK POTATO	CONT.	4" POT
HERBACEOUS	120	PONTEDEARIA CORDATA	PICKEREL WEED	CONT.	4" POT

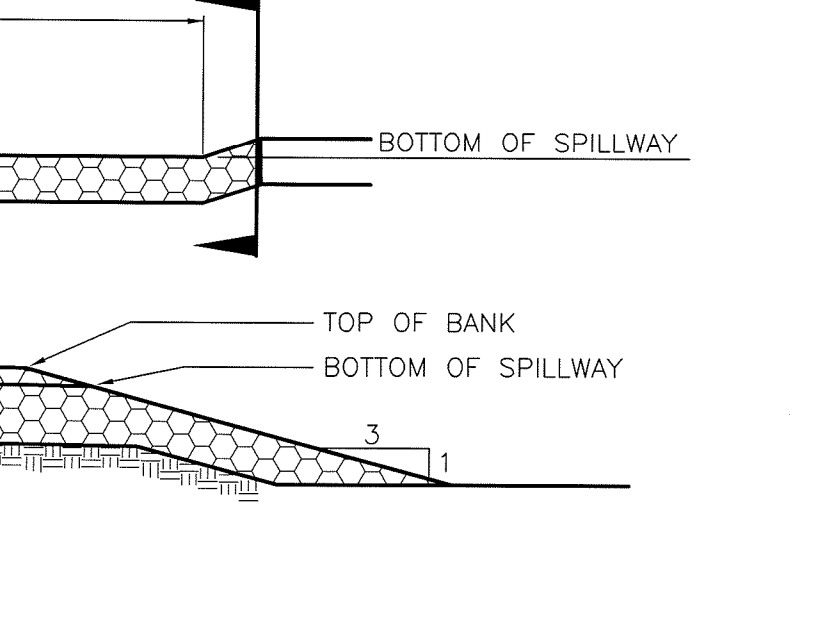
NORMAL POOL TO SHELF TOP = 1,158 SF 50 PLANTS PER 200 SF = 290 PLANTS					
PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	CALIPER
HERBACEOUS	145	HIBISCUS LAEVIS	WALBERTLEAF ROSE	CONT.	4" POT
HERBACEOUS	145	RYTHYDORHYZON FISTULOSUS	JOE PEE WEED	CONT.	4" POT



TYPICAL VEGETATED SHELF LANDSCAPING DETAIL
NTS

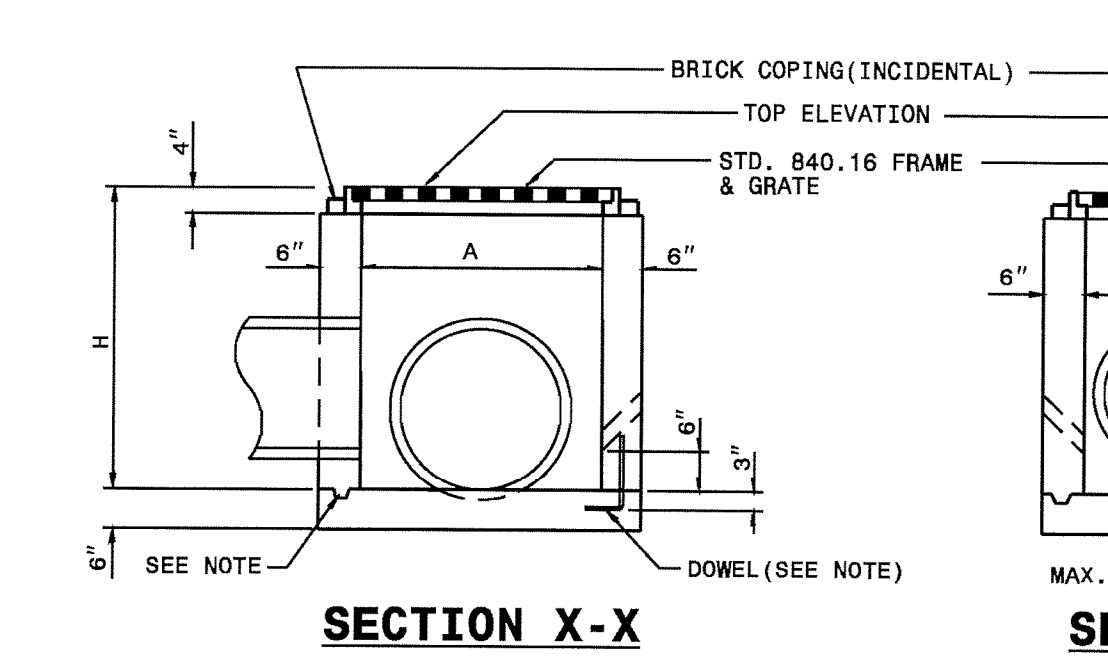
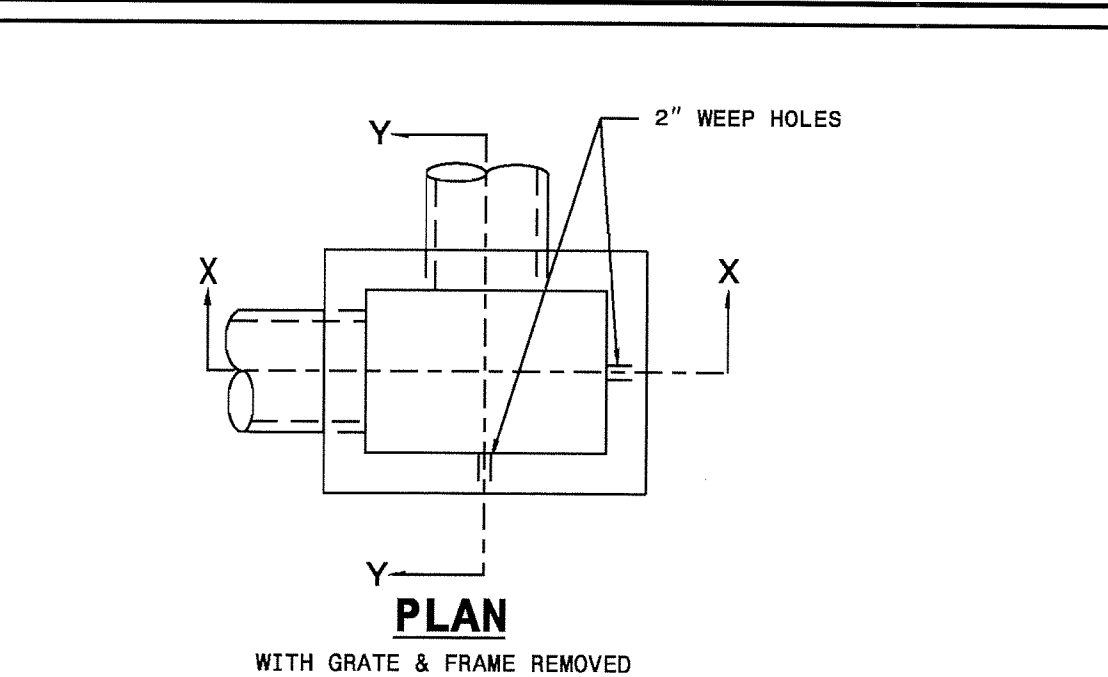
Notes:
1) NO PLANTINGS WITHIN 10' OF OUTLET STRUCTURE.
2) ALL LANDSCAPE MATERIAL, INCLUDING GRASS, SHOULD BE PLANTED IN GOOD TOPSOIL. NATIVE UNDERLYING SOILS MAY BE SUITABLE FOR PLANTING IF AMENDED WITH 4" OF WELL-AGED COMPOST TILLED INTO THE SUBGRADE. COMPOST SHOULD MEET SPECIFICATIONS FOR GRADE A COMPOST QUALITY.
3) A MINIMUM TWO-YEAR WARRANTY PERIOD STIPULATING REQUIREMENTS FOR PLANT SURVIVAL/REPLACEMENT.
4) PERMANENT VEGETATED STABILIZATION OF THE POND SIDESLOPES WILL BE REQUIRED PRIOR TO FINAL INSPECTION.

EMERGENCY SPILLWAY DATA			
BASIN #	TOP OF BANK ELEV.	BOTTOM OF SPILLWAY ELEV.	WIDTH (FEET)
1	29.00	28.50	30



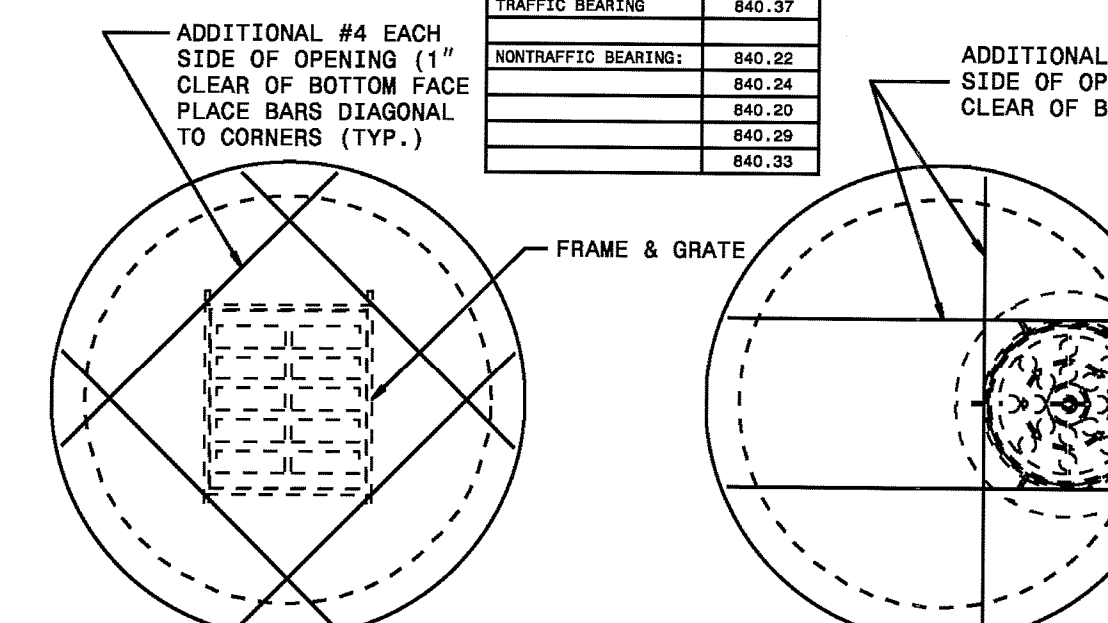
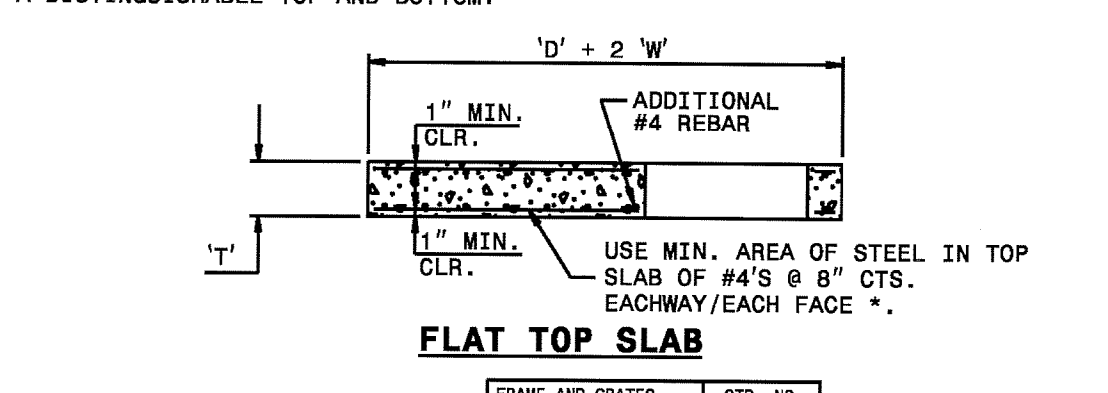
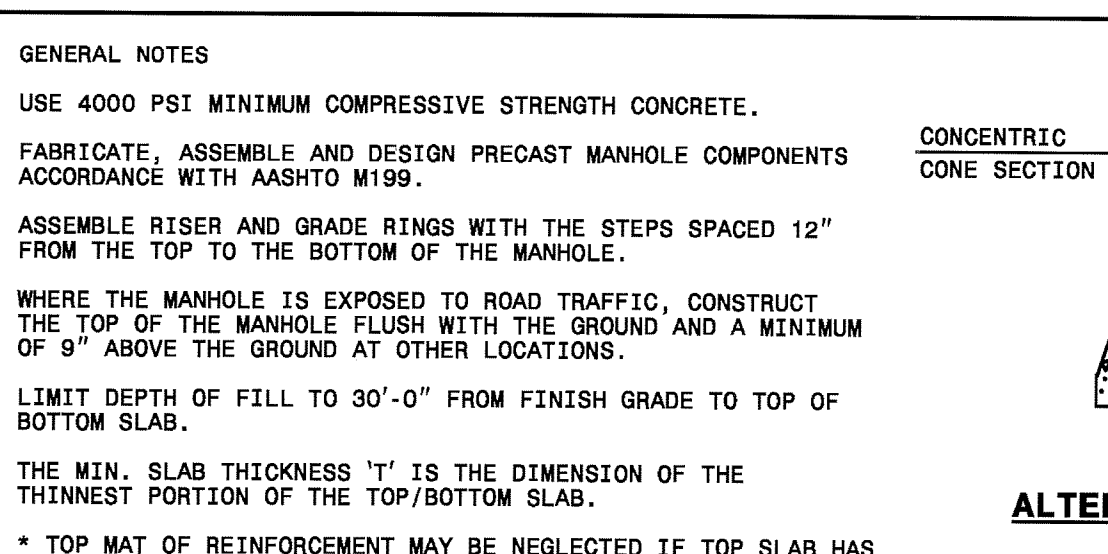
EMERGENCY SPILLWAY DETAIL
NTS

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE
SHEET 1 OF 1
840.14



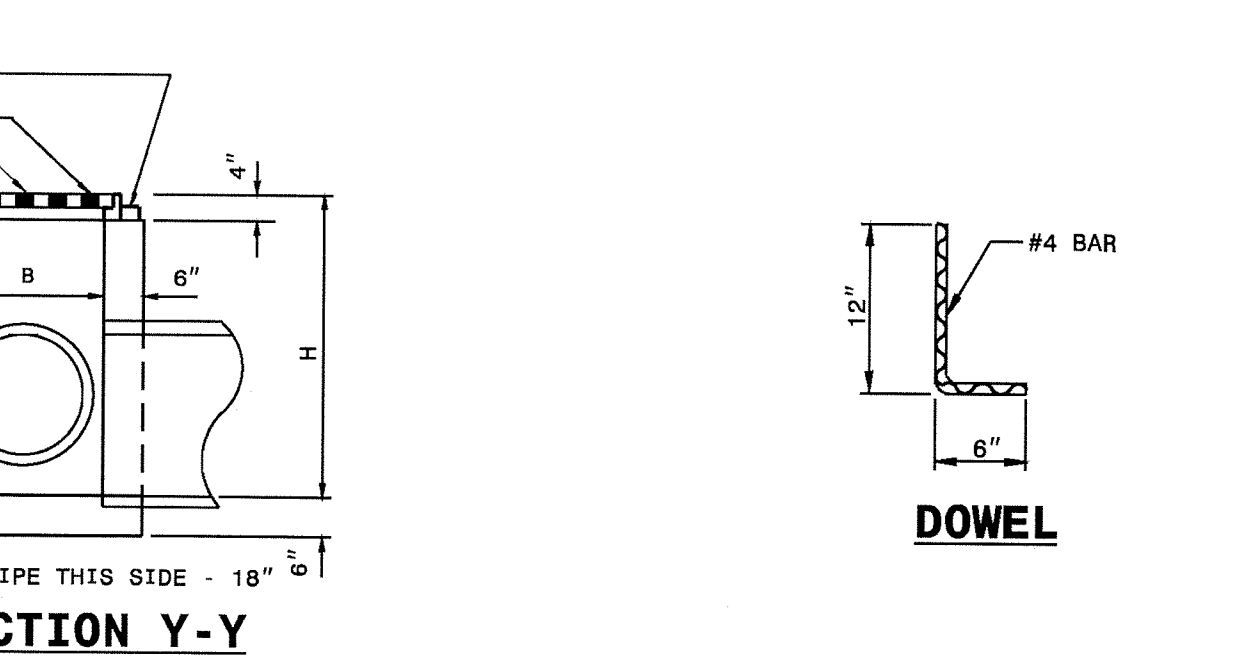
DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)									
PIPE	DIMENSIONS OF BOX & PIPE			MIN. HEIGHT	CUBIC YARDS CONC. IN BOX	DEDUCTIONS FOR ONE PIPE			
	SPAN	WIDTH	MIN. HEIGHT			BOTTOM SLAB	WALL PER FT. HT.	CONCRETE FOR WEIR	C.M.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.028	
15"	/	/	2'-3"	/	/	0.648	0.023	0.036	
18"	/	/	2'-6"	/	/	0.703	0.033	0.049	
24"	/	/	3'-0"	/	/	0.814	0.059	0.085	
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127	

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 48" PIPE
SHEET 1 OF 1
840.52



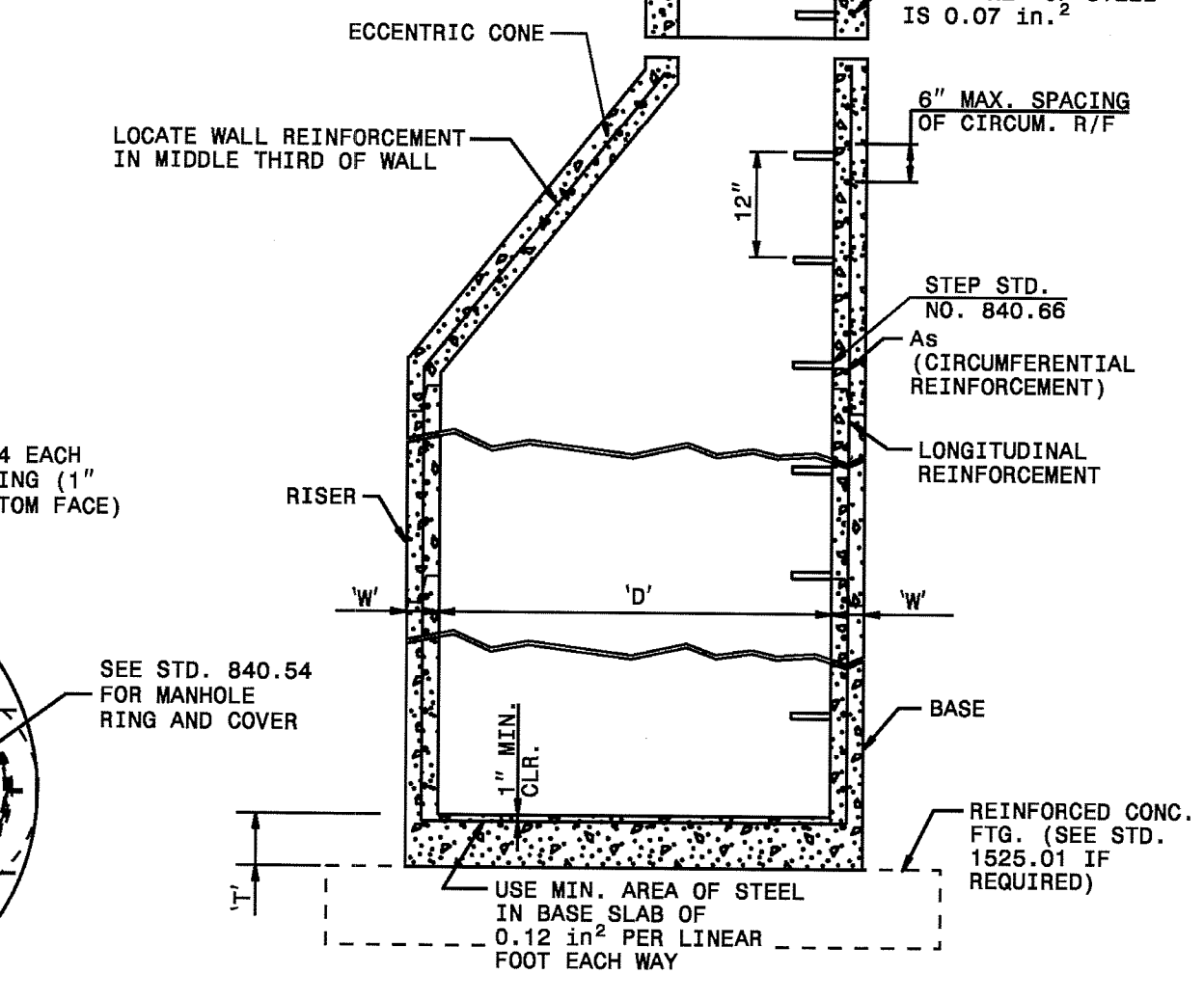
GRATED INLET OPTION and **MANHOLE OPTION**

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.86.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
CONSTRUCT WITH PIPE CROWNS MATCHING.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.
INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 76M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.



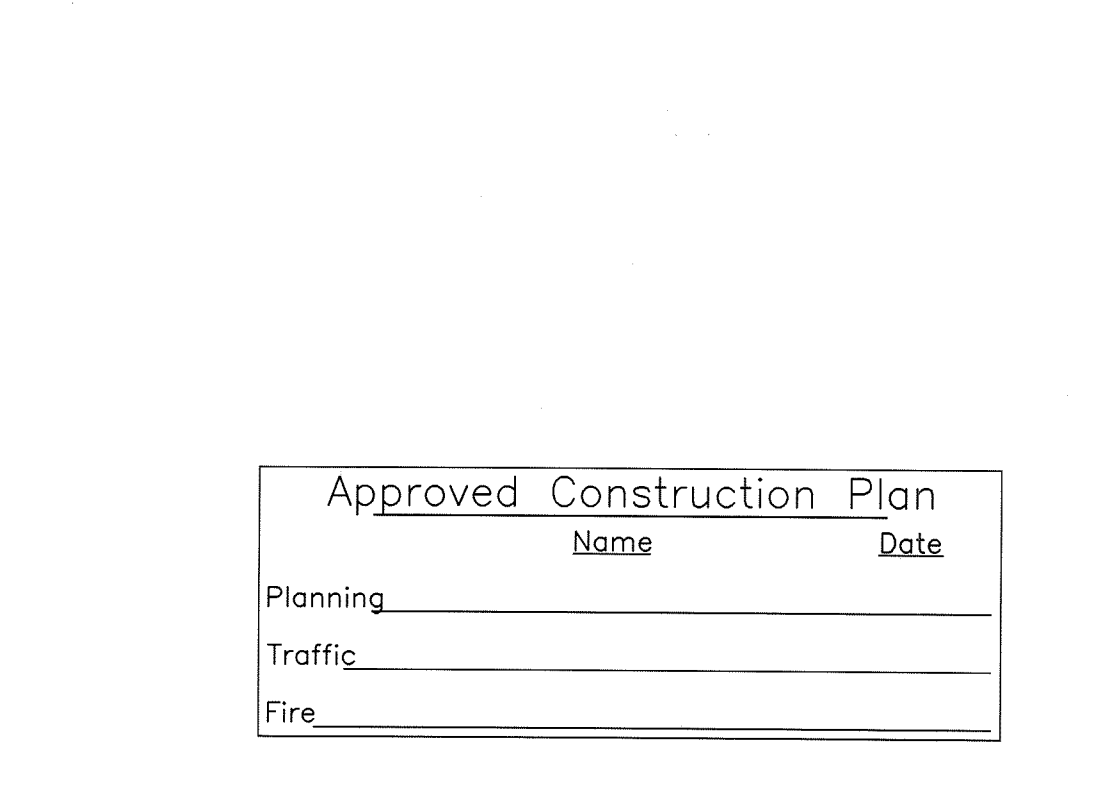
D	W	T	As
INTERNAL DIAMETER (FT.)	MIN. WALL THICKNESS (IN.)	MIN. TOP/BOTTOM SLAB THICKNESS (IN.)	MIN. AREA OF STEEL PER VERTICAL FT. (SQ. IN.)
4	4	6	0.12
5	5	8	0.15
6	6	8	0.18

GENERAL NOTES:
USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH AASHTO M199.
ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.
WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9" ABOVE THE GROUND AT OTHER LOCATIONS.
LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.
THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.
* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.



TYPICAL MANHOLE SECTION

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 48" PIPE
SHEET 1 OF 1
840.52



STORMWATER MANAGEMENT PLAN APPROVED
CITY OF WILMINGTON ENGINEERING DEPARTMENT
DATE _____ PERMIT # _____
SIGNED _____
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE
SHEET 1 OF 1
840.14

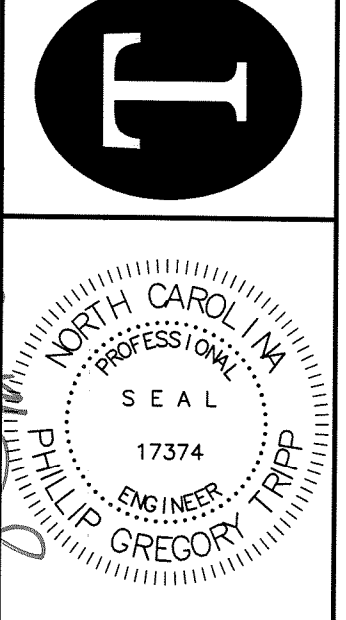
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 48" PIPE
SHEET 1 OF 1
840.52

REVISIONS		
No.	Description	By

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE
SHEET 1 OF 1
840.14

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
1-12
ENGLISH STANDARD DRAWING FOR PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 48" PIPE
SHEET 1 OF 1
840.52

TRIPP ENGINEERING, P.C.
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Wilmington, North Carolina 28401
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DATE 05-12-15
DESIGN PGT
DRAWN MLV
C6
SHEET 6 OF 6
14045