

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

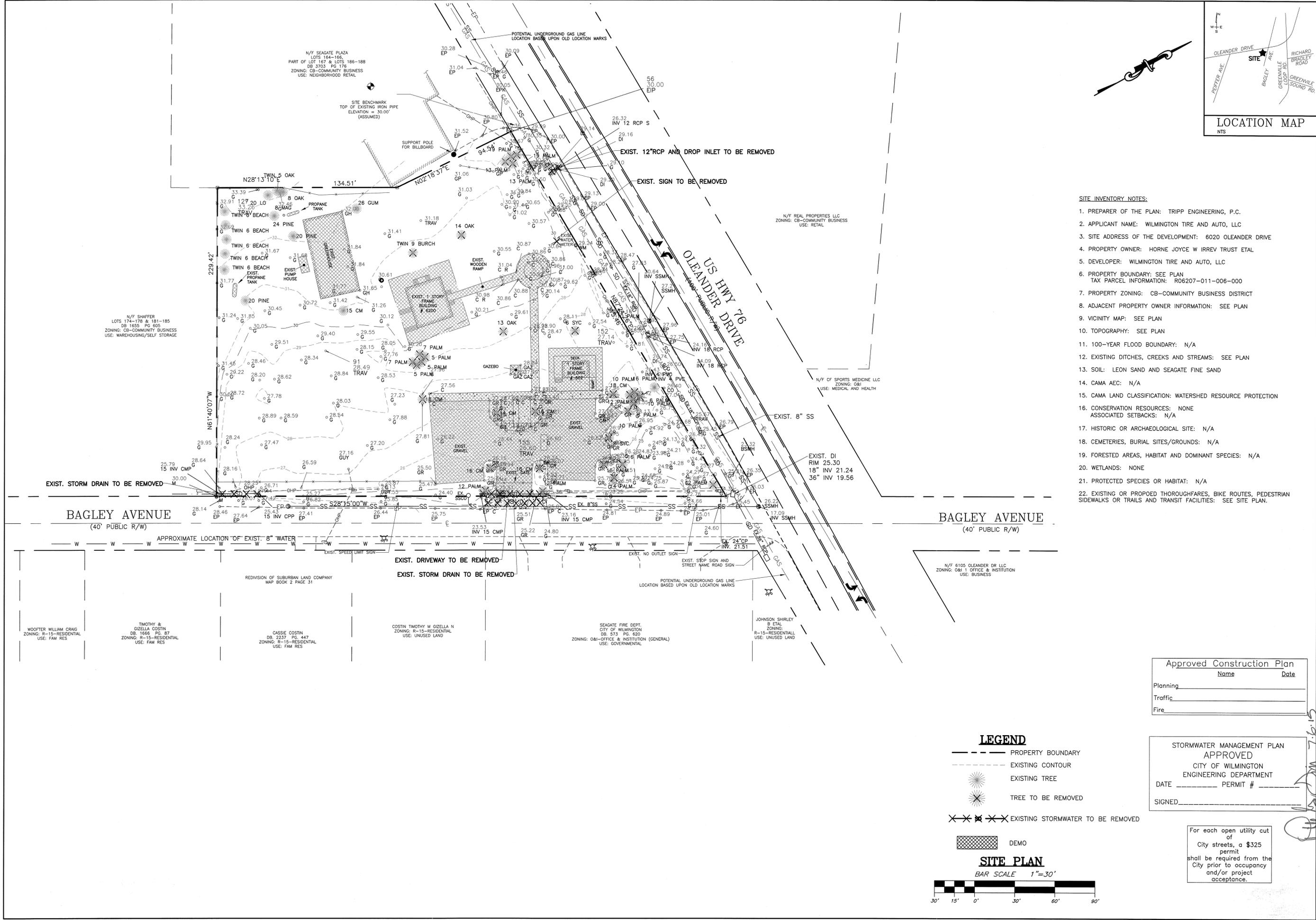
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
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NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL
 17374
 GREGORY TRIPP

DATE 07-06-15
 DESIGN PGT
 DRAWN MLV

C1
 SHEET 1 OF 6
 14045



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 _____	_____

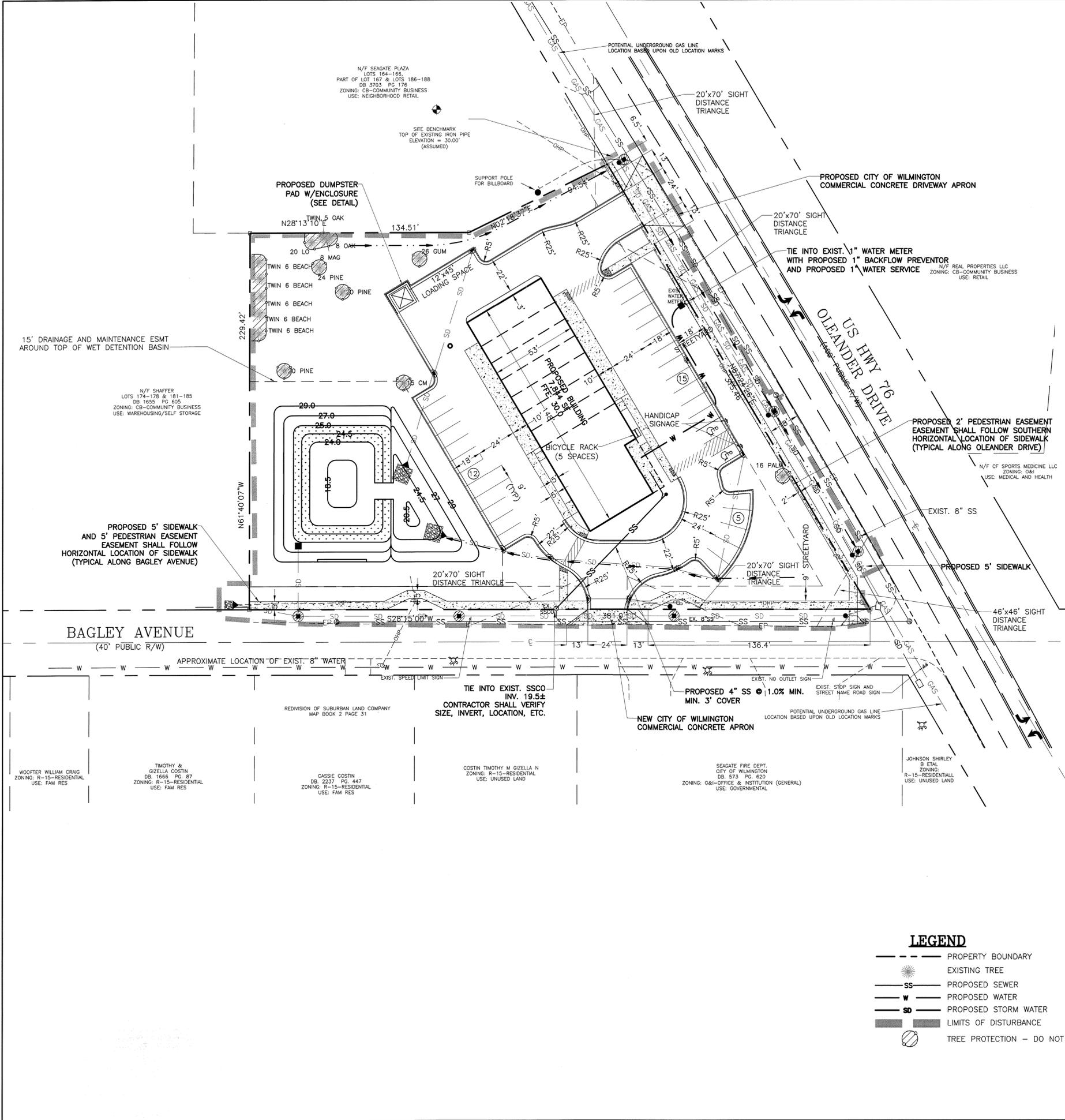
STORMWATER MANAGEMENT PLAN APPROVED

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. BISTOW, LAND SURVEYING, PC.
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- 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.
- 5) ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- 6) CONTACT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 7) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 8) NO ROWS TO BE CLOSED.
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- 10) OFF SITE PARKING PROPOSED AS SHOWN.
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- 13) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
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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 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 ALL 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.
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CFPUA

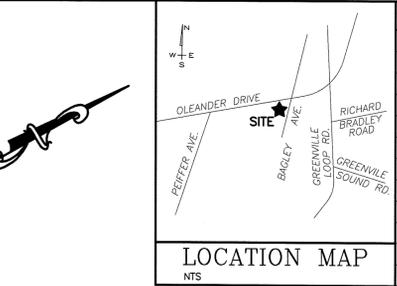
- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
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- 3) IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S 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 USCFCOHR 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

- 1) SHEET FLOW TO CURB INLETS TO WET DETENTION BASIN
- 2) OUTFALL DRAINS TO EXIST. 36" RCP AT OLEANDER DR.

PLANNING

- 1) ALL PERMANENT STORAGE OF MATERIALS, MERCHANDISE AND LUBRICATION, REPAIR AND SERVICING EQUIPMENT SHALL BE WITHIN THE PRINCIPAL BUILDING.
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- 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.
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REVISIONS

No./Date	Description	By

LOCATION MAP

NTS

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.
 DISTURBED AREA: CB-COMMUNITY BUSINESS 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): 10.58%
 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
 EXISTING CONCRETE: 2,075 SF
 EXISTING GRAVEL: 6,965 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): 1,900 SF
 TOTAL IMPERVIOUS AREA: 33,264 SF (45%)

PARKING REQUIRED: (RETAIL PARTS SALES) 2,490 SF
 MAXIMUM: 1/200 12
 MINIMUM: 1/400 6

PARKING REQUIRED: (REPAIR SERVICE) 5,354 SF
 MAXIMUM: 1/400 9
 MINIMUM: 1/600 3

TOTAL PARKING REQUIRED: MAXIMUM: 25 MINIMUM: 15
 TOTAL PARKING PROVIDED: 31

CAMA LAND USE: WATERSHED RESOURCE PROTECTION

PUBLIC WATER AND SEWER BY CFPUA
 EXISTING WATER FLOW: 1,166 GPD
 EXISTING SEWER 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

LEGEND

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

SITE PLAN
 BAR SCALE 1"=30'

30' 15' 0' 30' 60' 90'

TRIPP ENGINEERING, P.C.
 419 Chestnut Street
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 Phone 910-763-5100
 Fax 910-763-5631
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PHILIP GREGORY TRIPP
 PROFESSIONAL ENGINEER
 17374
 SEAL

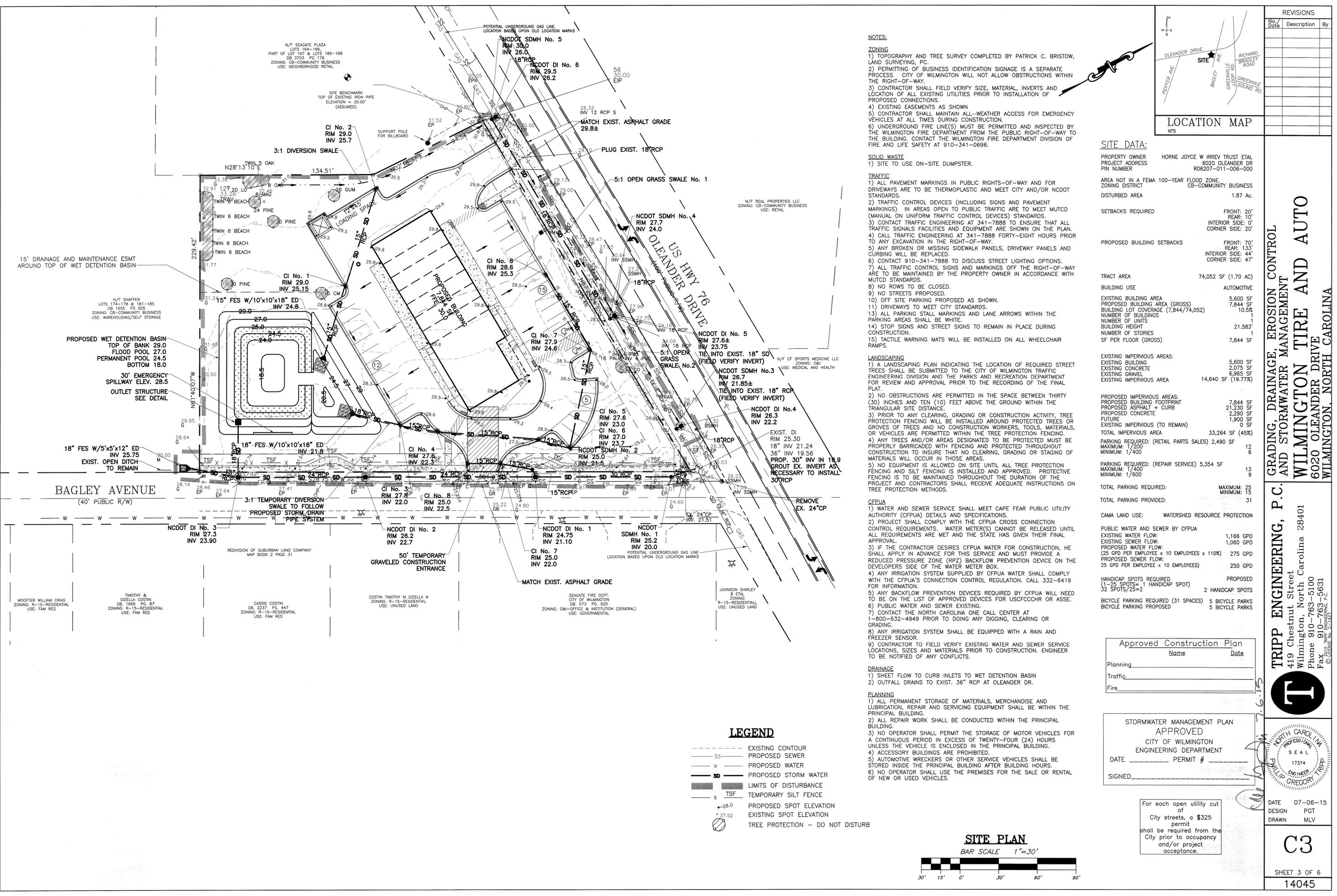
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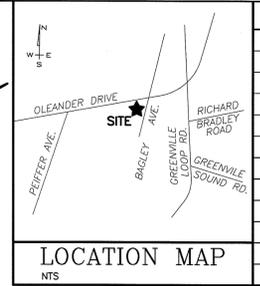
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SHEET 2 OF 6
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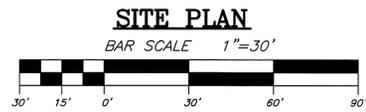
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 - SS PROPOSED SEWER
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 - LIMITS OF DISTURBANCE
 - X TSF TEMPORARY SILT FENCE
 - 28.0 PROPOSED SPOT ELEVATION
 - * 37.52 EXISTING SPOT ELEVATION
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Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN APPROVED

CITY OF WILMINGTON
 ENGINEERING DEPARTMENT

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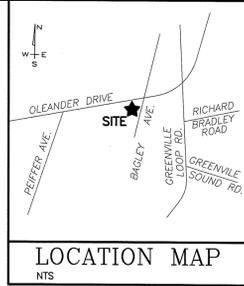
WILMINGTON TIRE AND AUTO
 6020 OLEANDER DRIVE
 WILMINGTON, NORTH CAROLINA

DATE 07-06-15
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C3

SHEET 3 OF 6
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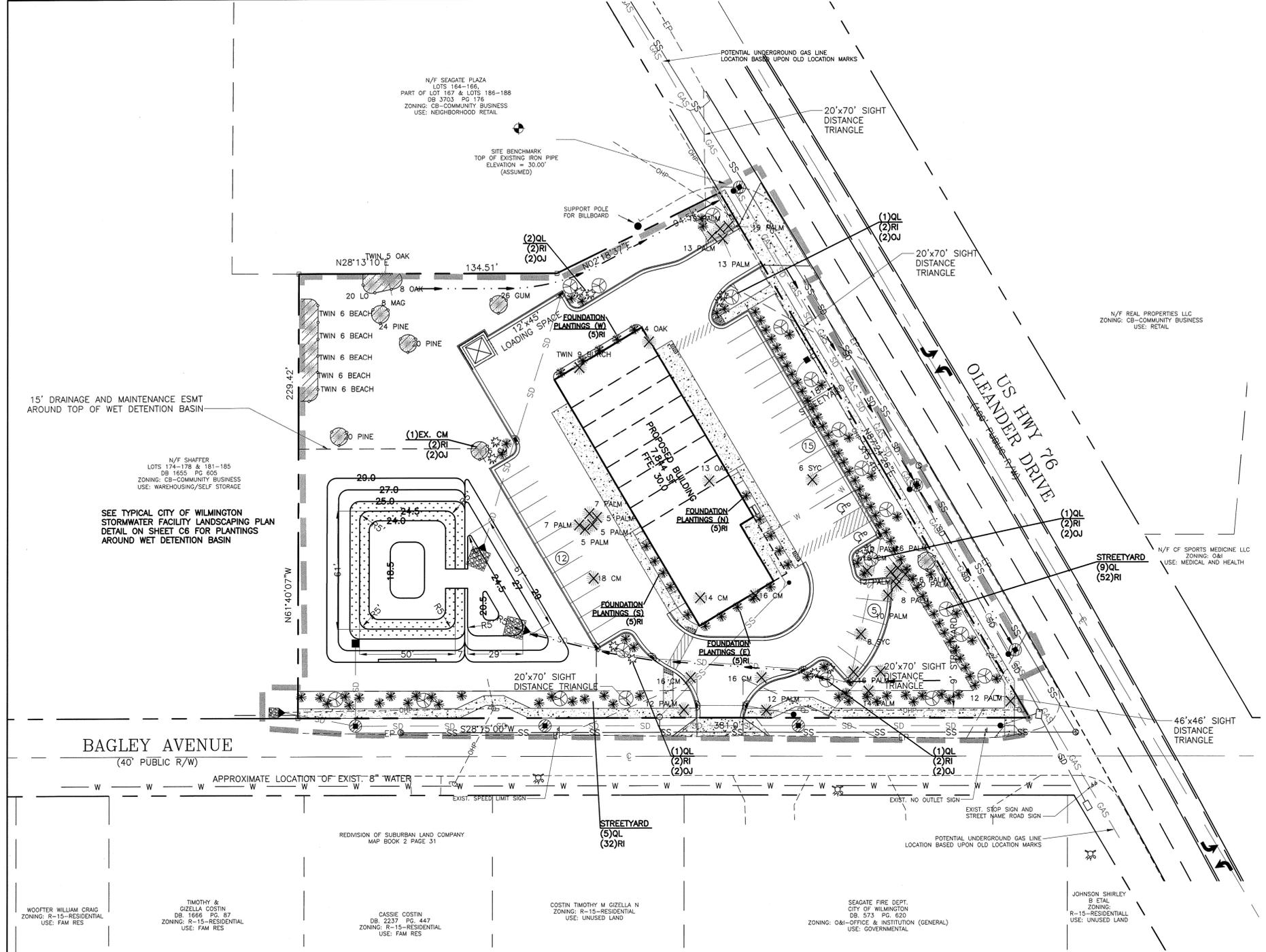
PLANT LIST

KEY NO.	TYPE	COMMON NAME	SCIENTIFIC NAME	HT. - "HEIGHT"	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

** SHRUBS WITHIN OLEANDER DRIVE STREETYARD TO BE PLANTED AT 3 FOOT HEIGHT

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.)

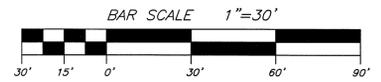
	REQUIRED	PROPOSED
STREETYARD (OLEANDER): 315.46-25*18= 5,228 SF	9 TREE(S) 52 SHRUB(S)	9 TREE(S) 52 SHRUB(S)
STREETYARD (BAGLEY): 381.59-25*18/2= 3,209 SF	5 TREE(S) 32 SHRUB(S)	5 TREE(S) 32 SHRUB(S)
DISTURBED AREA: 1.87 Ac. (15 TREES PER DISTURBED ACRE)	28 TREES	33 TREES 20 NEW 13 EXISTING
FOUNDATION PLANTINGS: (NORTH) 76x21.58x12%	197 SF	239 SF (SEE PLAN)
FOUNDATION PLANTINGS: (SOUTH) 76x21.58x12%	197 SF	202 SF (SEE PLAN)
FOUNDATION PLANTINGS: (EAST) 53x21.58x12%	137 SF	187 SF (SEE PLAN)
FOUNDATION PLANTINGS: (WEST) 53x21.58x12%	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

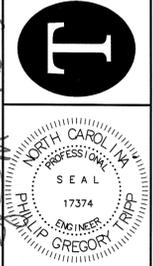
DATE _____ PERMIT # _____

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.

TRIPP ENGINEERING, P.C.
 LANDSCAPE PLAN
WILMINGTON TIRE AND AUTO
 6020 OLEANDER DRIVE
 WILMINGTON, NORTH CAROLINA

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

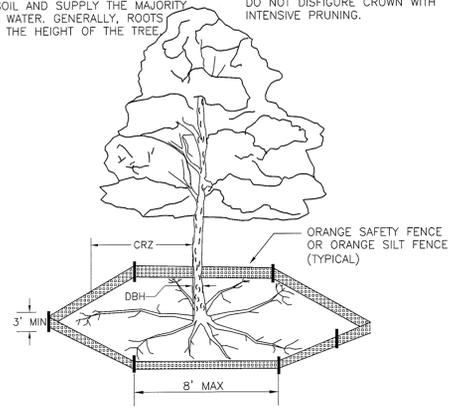


DATE 07-06-15
 DESIGN PGT
 DRAWN MLV

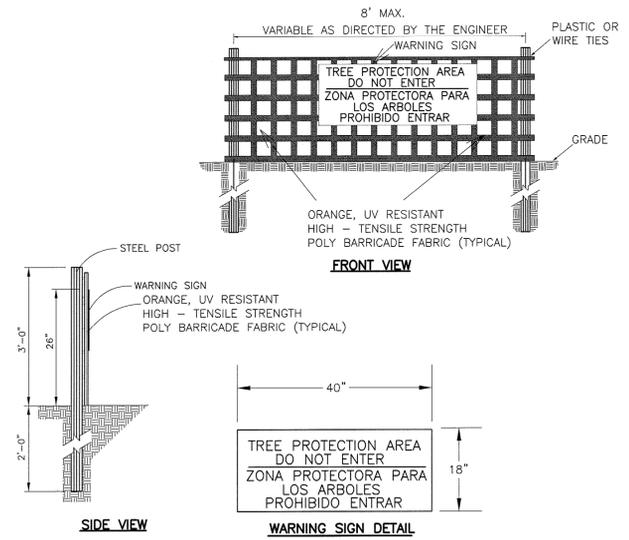
C4
 SHEET 4 OF 6
 14045

NOTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 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 PRODUCTION TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.



- NOTES:
1. PROJECT 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.



- 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.

TREE PROTECTION DURING CONSTRUCTION SD 15-09
NOT TO SCALE

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

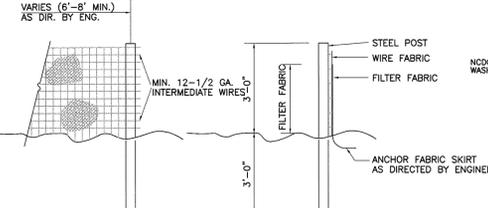
STORMWATER MANAGEMENT PLAN

APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

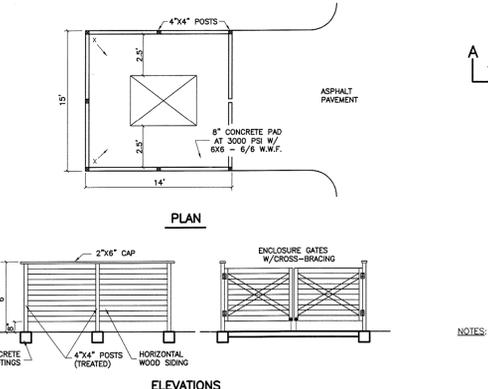
DATE _____ PERMIT # _____

SIGNED _____

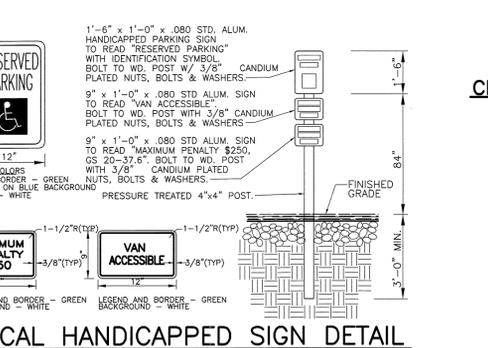


- NOTES:
1. FENCE FABRIC SHALL BE A MIN. OF 32" IN WIDTH AND SHALL HAVE A MIN. OF SIX LINE WIRES WITH 12" STAY SPACING.
 2. FABRIC SHALL BE FOR EROSION CONTROL AND MIN. OF 36" IN WIDTH. FABRIC SHALL BE FASTENED ADEQUATELY TO THE WIRE FABRIC AS DIRECTED BY THE ENGINEER.
 3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

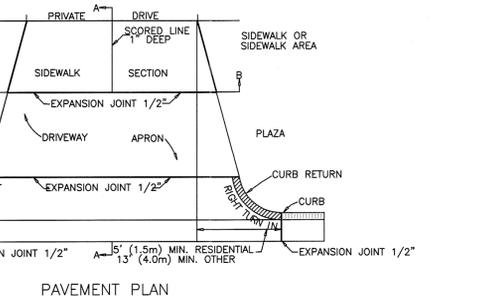
TEMPORARY SILT FENCE
NTS



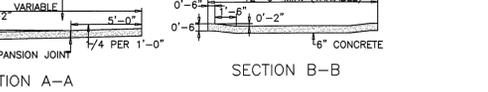
DUMPSTER PAD & ENCLOSURE DETAIL
NTS



TYPICAL HANDICAPPED SIGN DETAIL
NTS

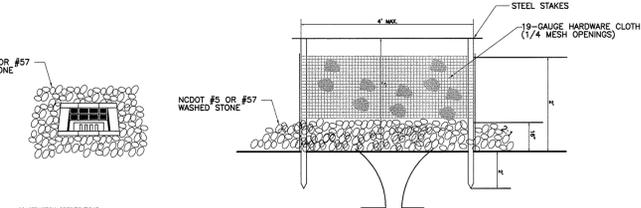


CITY OF WILMINGTON CURB RAMP SD 3-07
NTS



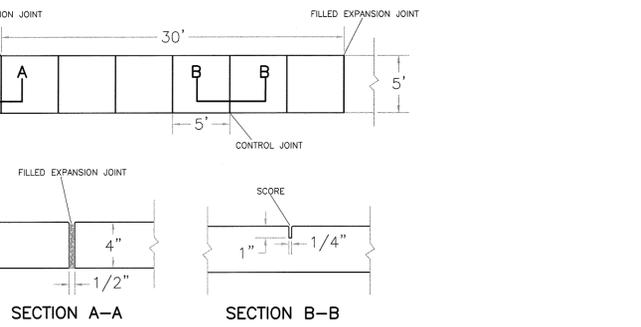
STANDARD DRIVEWAY DETAIL
SD 8-02
NOT TO SCALE

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



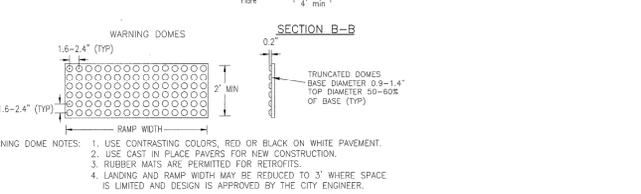
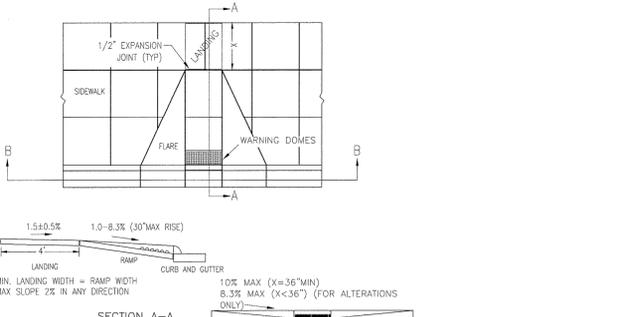
- CONSTRUCTION SPECIFICATIONS:
1. UNIFORM GRADE & SLOPE APPROXIMATION
 2. DRAINAGE DITCHES SHALL BE 18" DEEP AND 12" WIDE AT THE BOTTOM OF THE DITCH WITH A MINIMUM OF 1% SLOPE.
 3. SLOPING THE DITCH TO THE SIDE WITH AN APPROPRIATE PERSONNEL OF THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 4. PLACE A 1/4" LAYER OF 1/4" GRAVEL BELOW THE 1/4" LAYER OF 1/4" GRAVEL.
 5. PLACE A 1/4" LAYER OF 1/4" GRAVEL BELOW THE 1/4" LAYER OF 1/4" GRAVEL.
 6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH SUBGRADE.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION
NTS

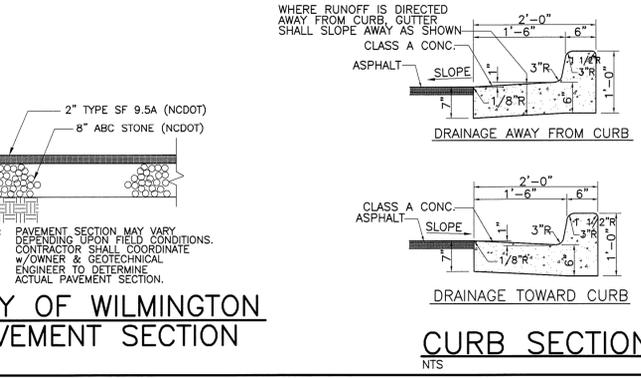


- NOTES:
1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
 2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
 4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.
 5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' x 5' PANEL.
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
 9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

CITY OF WILMINGTON SIDEWALK SD 3-10
NTS



CITY OF WILMINGTON CURB RAMP SD 3-07
NTS



CITY OF WILMINGTON PAVEMENT SECTION
NTS

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
PERMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 5:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERMETERS AND HOW ZONES)

NPDES GROUND STABILIZATION CRITERIA
NTS

SPRING-SUMMER PERMANENT GRASSING DETAIL

SPECIES	RATE (lb/acre)
PERNOCYBA SPERMATOPHYTES	30
SERICA LEPTOPHYLLA	30
PERNOCYBA SPERMATOPHYTES	30
GERMAN MILLET	30

SEEDING NOTES

1. MAKE A SOFT APPEARANCE IS DESIRED, OBTAIN SEEDS.
2. USE COMMON PERENNIAL GRASS ONLY ON ISOLATED SITES WHERE IT CANNOT BE DONE A TEST. BERMUDA GRASS MAY BE REPLACED WITH 5 lb/acre CROTCHER GRASS.

SEEDING DATES

APRIL 1 - JULY 15

SOIL AMENDMENTS

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 500 lb/acre 10-10-10 FERTILIZER.

FALL-WINTER PERMANENT GRASSING DETAIL

SPECIES	RATE (lb/acre)
TALL FESCUE (BLEND OF TWO OR MORE)	200

SEEDING DATES

SEPTEMBER - OCTOBER

SOIL AMENDMENTS

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000-5,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 500 lb/acre 10-10-10 FERTILIZER.

LATE WINTER & EARLY SPRING TEMPORARY GRASSING DETAIL

SPECIES	RATE (lb/acre)
PERNOCYBA SPERMATOPHYTES	100
GERMAN MILLET	100

SEEDING DATES

APRIL 1 - MAY 15

SOIL AMENDMENTS

FERTILIZE ACCORDING TO SOIL TESTS OR APPLY 40 lb/acre NITROGEN IN JANUARY OR FEBRUARY AND 100 lb/acre PHOSPHORUS AND 100 lb/acre POTASSIUM IN FEBRUARY OR MARCH. APPLY 100 lb/acre NITROGEN AND 100 lb/acre PHOSPHORUS AND 100 lb/acre POTASSIUM IN FEBRUARY OR MARCH. APPLY 100 lb/acre NITROGEN AND 100 lb/acre PHOSPHORUS AND 100 lb/acre POTASSIUM IN FEBRUARY OR MARCH.

TEMPORARY SUMMER GRASSING DETAIL

SPECIES	RATE (lb/acre)
GERMAN MILLET	40

SEEDING DATES

MOUNTAINS - MAY 15-AUG. 15
FLORIDA - MAY 15-AUG. 15
COASTAL PLAIN - APR. 15-AUG. 15

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.

TEMPORARY FALL GRASSING DETAIL

SPECIES	RATE (lb/acre)
RYE (grain)	120

SEEDING NOTES

MOUNTAINS - AUG. 15-DEC. 15
FLORIDA - AUG. 15-DEC. 15
COASTAL PLAIN AND PIEDMONT - AUG. 15-DEC. 30

SOIL AMENDMENTS

FOLLOW SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.

TEMPORARY FALL GRASSING DETAIL

SPECIES	RATE (lb/acre)
RYE (grain)	120

SEEDING NOTES

MOUNTAINS - AUG. 15-DEC. 15
FLORIDA - AUG. 15-DEC. 15
COASTAL PLAIN AND PIEDMONT - AUG. 15-DEC. 30

SOIL AMENDMENTS

FOLLOW SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.

TEMPORARY FALL GRASSING DETAIL

SPECIES	RATE (lb/acre)
RYE (grain)	120

SEEDING NOTES

MOUNTAINS - AUG. 15-DEC. 15
FLORIDA - AUG. 15-DEC. 15
COASTAL PLAIN AND PIEDMONT - AUG. 15-DEC. 30

SOIL AMENDMENTS

FOLLOW SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.

- SITE WORK NOTES**
1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH EXISTING CONDITIONS BOTH ON AND IMMEDIATELY ADJACENT TO THE SITE.
 2. CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNED OR SPECIFIED.
 3. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER MATERIAL WITHIN LIMITS OF CONSTRUCTION.
 4. MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
 5. DISPOSAL: CLEANED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
 6. FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL REPORT.
 7. 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.
 8. THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
 9. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY AN APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
 11. EXISTING SURVEYING PERFORMED BY PATRICK BRISTOW LAND SURVEYING, PC AND SUPPLIED BY THE OWNER.
 12. 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.
 13. THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
 14. ALL P.V.C UTILITY MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER AT FINAL GRADE.
 15. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL AND STATE CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
 16. ALL PAVEMENT, BASE AND SUBGRADE SHALL CONFORM TO NCDOT STANDARDS INCLUDING WORKMANSHIP, MATERIALS AND EQUIPMENT. APPROPRIATE BARRICADES, SIGNS, LIGHTS OR OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NCDOT TO MAINTAIN SAFETY AND TWO WAY TRAFFIC.
 17. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
 18. CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III WITH RUBBER GASKETED JOINTS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 19. USE PAVEMENT MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYL, FS TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON BLEEDING, REFLECTIVE MATERIAL MAY BE ADDED AT OWNER'S OPTION FOR NIGHT REFLECTIVITY.
 20. DUCTILE IRON SHALL BE CLASS 50.
 21. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI - AIR ENTRAINED.
 22. 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.
 23. SEE GEOTECHNICAL REPORT NO. _____ DATED _____ BY _____ FOR ADDITIONAL REQUIREMENTS.

- CONSTRUCTION SEQUENCE**
1. 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).
 2. NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SLOPES DURING AND AFTER CONSTRUCTION.
 3. INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED ENTRANCE TO SILT FENCE, CONSTRUCTION DAMS, ETC. INSTALL ALL SECONDARY EROSION CONTROL MEASURES AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
 4. ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN.
 5. IF FENCE AND PROTECTION ARE TO BE CLEANED WHEN 0.5 FEET OF SEDIMENT HAVE ACCUMULATED IN FRONT OF THE DEVICE OR WHEN THEY LEAK OR FAIL, SEDIMENT TRAPS ARE CLEANED OUT AS STATED OR WHEN HALF FULL.
 6. IF APPLICABLE, CONSTRUCT PROPOSED RETENTION POND TO ACT AS A SEDIMENT BASIN DURING CONSTRUCTION. REMOVE ACCUMULATION OF SILT AS REQUIRED TO ALLOW PROPER FUNCTIONING. RESTORE POND TO DESIGN LEVELS AT THE COMPLETION OF CONSTRUCTION.
 7. IF APPLICABLE, INSTALL DROP INLETS WITH INLET PROTECTION TO ACT AS SILT TRAPS DURING CONSTRUCTION. REMOVE ACCUMULATED SILT AS NEEDED TO PREVENT SILT FROM ENTERING STORM DRAIN PIPING.
 8. A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
 9. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROTECTION IS COMPLETE.
 10. MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.
 11. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.

- MAINTENANCE PLAN**
1. 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 24 HOURS OF EVERY 24 HOURS OF 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 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 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.
 4. 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.
 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 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 DESIGNED 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 REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST Baffle. FLOATING SKIMMERS 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. THE 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 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, RESEED 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.

- SITE POLLUTANTS NOTES**
1. LOCATE AREAS DESIGNATED FOR MANAGEMENT OF LAND CLEARING AND DEMOLITION DEBRIS, CONSTRUCTION AND DOMESTIC WASTE AND HAZARDOUS OR TOXIC WASTE. THIS LOCATION SHALL BE AT LEAST 50' AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS IT CAN BE SHOWN THAT NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
 2. DUMPING OF PAINT OR OTHER LIQUID BUILDING MATERIAL WASTES IN STORM DRAINS IS PROHIBITED.
 3. LITTER AND SANITARY WASTE-THE PERMITTEE SHALL CONTROL THE MANAGEMENT AND DISPOSAL OF LITTER AND SANITARY WASTE FROM THE SITE.
 4. LOCATE EARTHEN-MATERIAL STOCK PILE AREAS AT LEAST 50' AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS OTHERWISE SPECIFIED.
 5. CONCRETE MATERIALS ON-SITE, INCLUDING EXCESS CONCRETE, MUST BE CONTROLLED AND MANAGED TO AVOID CONTACT WITH SURFACE WATERS. EXCESS CONCRETE, EXCESS CEMENT, SLURRY SHALL BE DISCHARGED FROM THE SITE.
 6. ANY HAZARDOUS WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE SOLID WASTE REGULATIONS.
 7. CONSTRUCTION SHALL BE AVOIDED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

- SOIL AMENDMENTS**
- FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.

- MAINTENANCE**
- Refrill and reseed damaged areas immediately. Topdress with 50 lb/acre lime and 100 lb/acre fertilizer. Refill and reseed damaged areas immediately. Topdress with 50 lb/acre lime and 100 lb/acre fertilizer. Refill and reseed damaged areas immediately. Topdress with 50 lb/acre lime and 100 lb/acre fertilizer.

REVISIONS

No./Date	Description	By

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Wilmington, North Carolina 28401
Phone 910-763-5100
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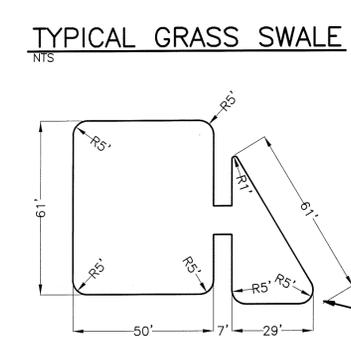
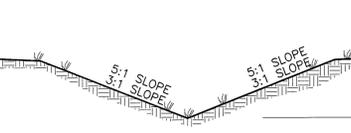
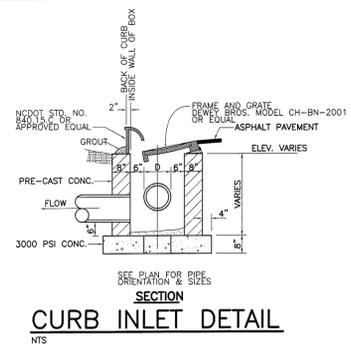
WILMINGTON TIRE AND AUTO
6020 OLEANDER DRIVE
WILMINGTON, NORTH CAROLINA

SEAL
17374
GREGORY

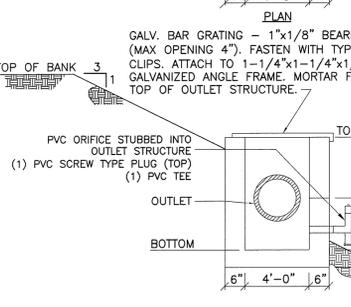
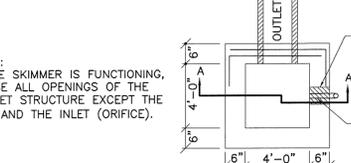
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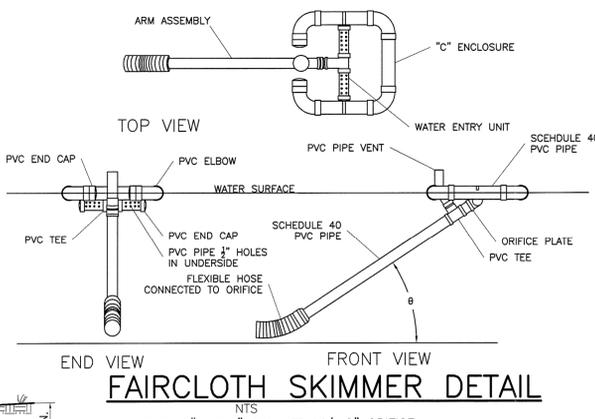
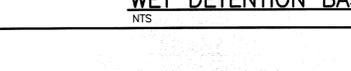
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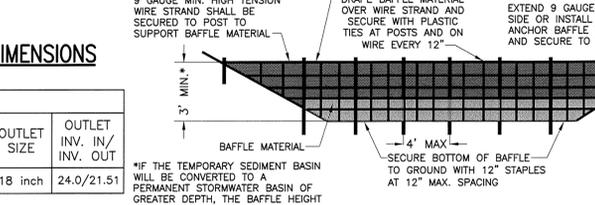
BASIN #	TOP ELEV.	BOTTOM ELEV.	INLET (ORIFICE) SIZE/INVERT	WEIR SIZE/INVERT	OUTLET SIZE	OUTLET INV. IN/OUT
1	27.75	23.75	1.0"/24.50	12"/27.0	18 inch	24.0/21.51



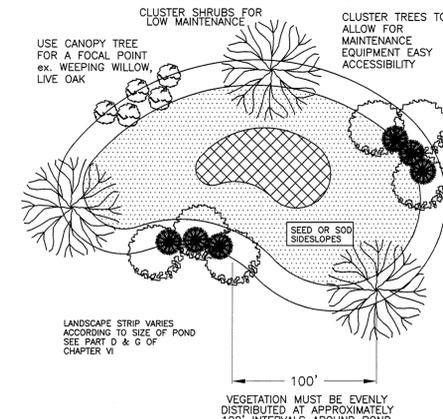
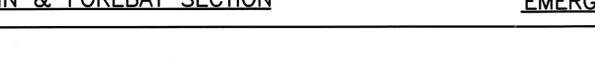
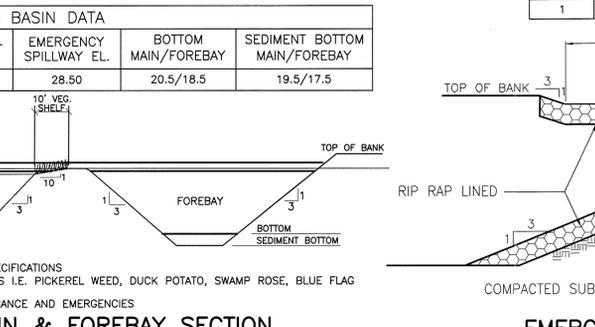
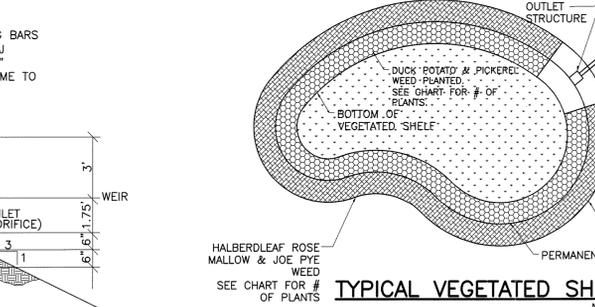
BASIN #	TOP OF BANK ELEV.	TEMPORARY POOL ELEV.	PERMANENT POOL ELEV.	SHWT	EMERGENCY SPILLWAY EL.	BOTTOM MAIN/FOREBAY	SEDIMENT BOTTOM MAIN/FOREBAY
1	29.00	27.00	24.50	26.0	28.50	20.5/18.5	19.5/17.5



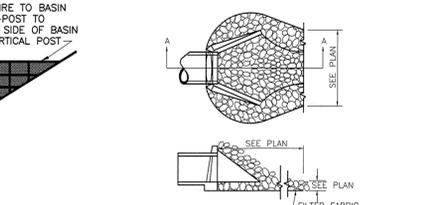
- BAFFLE CONSTRUCTION SPECIFICATION:**
- USE MATTING MADE OF 100% COCONUT FIBER (COIR) TWINE WOVEN INTO HIGH STRENGTH MATRIX.
 - STAPLES SHOULD BE MADE OF 0.125 INCH DIAMETER NEW STEEL WIRE FORMED INTO A 'U' SHAPE NOT LESS THAN 12 INCHES IN LENGTH WITH A THROAT OF 1 INCH IN WIDTH. THE STAPLES ANCHOR THE POROUS BAFFLES INTO THE SIDES AND BOTTOM OF THE BASIN.
 - ENSURE THE STEEL POSTS FOR POROUS BAFFLES ARE OF A SUFFICIENT HEIGHT TO SUPPORT BAFFLES AT DESIRED HEIGHT. POSTS SHOULD BE APPROXIMATELY 1-3/8" WIDE MEASURED PARALLEL TO THE FENCE, AND HAVE A MINIMUM WEIGHT OF 1.25 LB/LINEAR FT. THE POSTS MUST BE EQUIPPED WITH AN ANCHOR PLATE HAVING A MINIMUM AREA OF 14.0 SQUARE INCHES AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE TO HAVE A MEANS OF RETAINING WIRE AND COIR FIBER MAT IN THE DESIRED POSITION WITHOUT DISPLACEMENT.
 - USE 9-GAUGE HIGH TENSION WIRE FOR SUPPORT WIRE.
- CONSTRUCTION**
- GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL FRONT TO BACK AND SIDE TO SIDE.
 - INSTALL THE COIR FIBER BAFFLES IMMEDIATELY UPON EXCAVATION OF THE BASINS.
 - INSTALL POSTS ACROSS THE WIDTH OF THE SEDIMENT TRAP.
 - STAPLES SHOULD BE DRIVEN TO A DEPTH OF 24 INCHES AND SPACED A MAXIMUM OF 4 FEET APART. THE TOP OF THE FABRIC SHOULD BE 6 INCHES HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE EARTHEN EMBANKMENT.
 - INSTALL AT LEAST THREE ROWS OF BAFFLES BETWEEN THE INLET AND OUTLET DISCHARGE POINT. BASINS LESS THAN 20 FEET IN LENGTH MAY USE 2 BAFFLES.
 - ATTACH A 9 GAUGE HIGH TENSION WIRE STRAND TO THE STEEL POSTS AT A HEIGHT OF 6 INCHES ABOVE THE SPILLWAY ELEVATION WITH PLASTIC TIES OR WIRE FASTENERS TO PREVENT SAGGING. IF THE TEMPORARY SEDIMENT BASIN WILL BE CONVERTED TO A PERMANENT STORMWATER BASIN OF GREATER DEPTH, THE BAFFLE HEIGHT SHOULD BE BASED ON THE POOL DEPTH DURING USE AS A TEMPORARY SEDIMENT BASIN.
 - EXTEND 9 GAUGE MINIMUM HIGH TENSION WIRE STRAND TO SIDE OF BASIN OR INSTALL STEEL T-POSTS TO ANCHOR BAFFLE TO SIDE OF BASIN AND SECURE TO VERTICAL END POSTS.
 - DRAPE THE COIR FIBER MAT OVER THE WIRE STRAND MOUNTED AT A HEIGHT OF 6 INCHES ABOVE THE SPILLWAY ELEVATION. SECURE THE COIR FIBER MAT TO THE WIRE STRAND WITH PLASTIC TIES OR WIRE FASTENERS. ANCHOR THE MATTING TO THE SIDES AND FLOOR OF THE BASIN WITH 12 INCH WIRE STAPLES, APPROXIMATELY 1 FT APART, ALONG THE BOTTOM AND SIDE SLOPES OF THE BASIN.
 - DO NOT SPLICE THE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.
 - ADJUSTMENTS MAY BE REQUIRED IN THE STAPLING REQUIREMENTS TO FIT INDIVIDUAL SITE CONDITIONS.



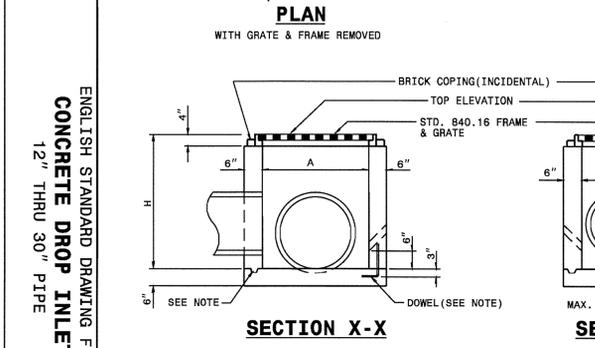
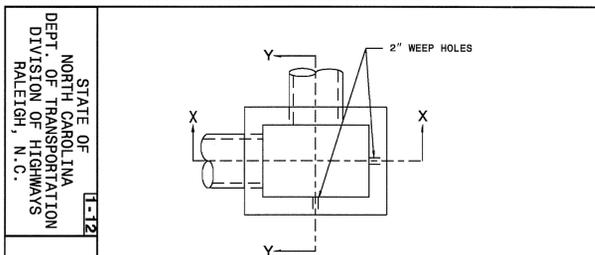
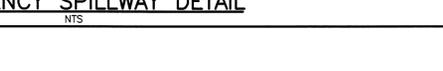
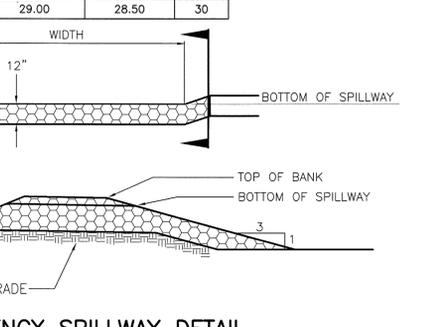
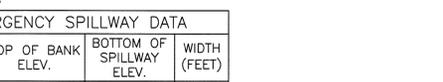
BASIN #	TOP OF BANK ELEV.	BOTTOM OF SPILLWAY ELEV.	WIDTH (FEET)
1	29.00	28.50	30



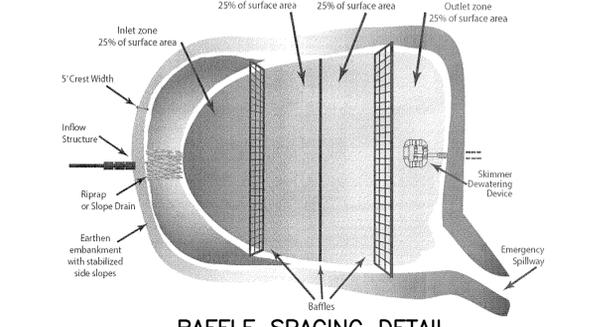
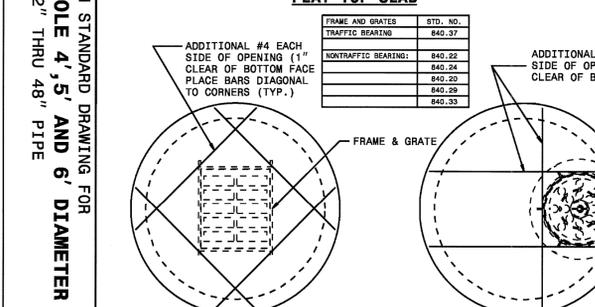
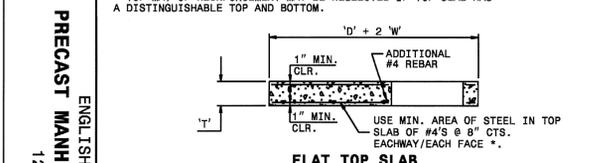
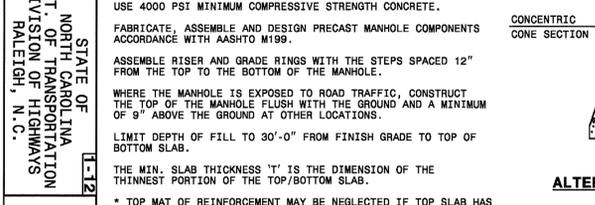
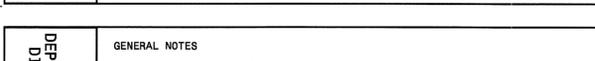
- Notes:**
- If possible, locate pond where vegetation exists.
 - Suggest minimal clearing to conserve visual quality of site and minimize the additional of tree planting. An irregular shape provides a more natural appearance.
 - Landscape strip shall be a minimum slope of 7:1 in order to plant vegetation.
 - Provide a minimum of 3 inches of mulch around all vegetation.
- CLUSTER SHRUBS FOR LOW MAINTENANCE**
- CLUSTER TREES TO ALLOW FOR MAINTENANCE EQUIPMENT EASY ACCESSIBILITY**
- USE CANOPY TREE FOR A FOCAL POINT**
ex. WEeping WILLOW, LIVE OAK
- VEGETATION MUST BE EVENLY DISTRIBUTED AT APPROXIMATELY 100' INTERVALS AROUND POND**
- LANDSCAPE STRIP VARIES ACCORDING TO SIZE OF POND**
SEE PART D & G OF CHAPTER VI



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



PIPE DIAMETER	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT	DEDUCTIONS FOR ONE PIPE	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026	
15"	3'-0"	2'-3"	2'-3"	0.222	0.222	0.648	0.023	0.036	
18"	3'-0"	2'-6"	2'-6"	0.222	0.222	0.703	0.033	0.049	
24"	3'-0"	3'-0"	3'-0"	0.222	0.222	0.814	0.059	0.085	
30"	3'-0"	3'-6"	3'-6"	0.222	0.222	0.925	0.092	0.127	



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 840.66.

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.

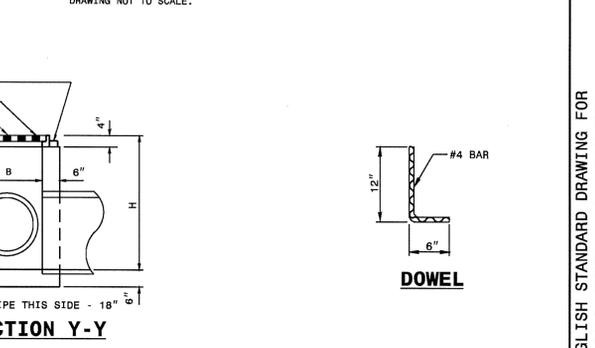
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

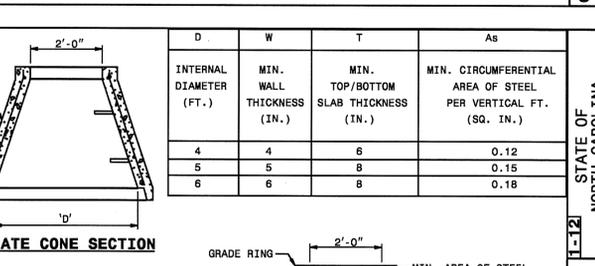
INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

CHAMFER ALL EXPOSED CORNERS 1".

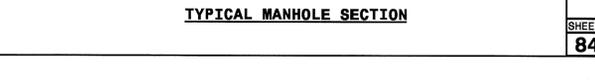
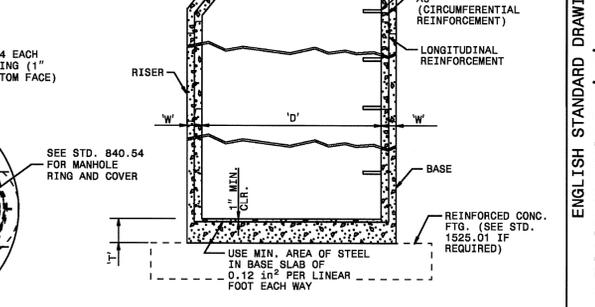
DRAWING NOT TO SCALE.



PIPE DIAMETER	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT	DEDUCTIONS FOR ONE PIPE	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026	
15"	3'-0"	2'-3"	2'-3"	0.222	0.222	0.648	0.023	0.036	
18"	3'-0"	2'-6"	2'-6"	0.222	0.222	0.703	0.033	0.049	
24"	3'-0"	3'-0"	3'-0"	0.222	0.222	0.814	0.059	0.085	
30"	3'-0"	3'-6"	3'-6"	0.222	0.222	0.925	0.092	0.127	



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



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.

No./Date	Description	By

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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.

ENGLISH STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
12" THRU 48" PIPE

SHEET 1 OF 1
840.52

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
12" THRU 30" PIPE

SHEET 1 OF 1
840.14

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.14

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.14

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WILMINGTON TIRE AND AUTO
6020 OLEANDER DRIVE
WILMINGTON, NORTH CAROLINA

DETAILS AND NOTES

DATE 07-06-15
DESIGN PGT
DRAWN MLV

C6
SHEET 6 OF 6
14045