

REVISIONS		
No./Date	Description	By

SITE DATA:
 PROPERTY OWNER: CENTER 206, LLC
 PROJECT ADDRESS: 4317,4319,4321,4329 LAKE AVENUE, 4312 SPIREA DRIVE, WILMINGTON, NC 28411
 PIN NUMBERS: R06106-006-006-000, R06106-006-005-001, R06106-006-042-000, R06106-006-005-000, R06106-006-043-000
 NO WETLANDS LOCATED ON-SITE
 LATITUDE AND LONGITUDE: 34°12'25\"/>

EXISTING CONDITIONS
LAKE PARK VILLAGE
 WILMINGTON, NORTH CAROLINA

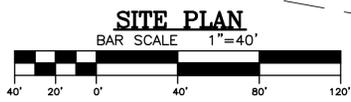
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
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DATE 06-27-13
 DESIGN PGT
 DRAWN EJW

C1
 SHEET 1 OF 5
 12034

LEGEND
 - - - - - 13.75' EXIST. SPOT ELEVATION
 - - - - - PROPERTY LINE (BOUNDARY)
 - - - - - RIGHT OF WAY



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.

Approved Construction Plan	
Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____

- NOTES:**
- 1) TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
 - 2) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
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 - 9) PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES.
 - 10) NO CONSTRUCTION WORKERS, TOOLS MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 - 11) ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.
 - 12) SITE LIGHTING WILL NOT SHINE ONTO ADJACENT RESIDENTIALLY ZONED OR USED PROPERTIES. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
 - 13) SEE LANDSCAPE PLAN AND TREE REMOVAL PLAN FOR TREE PROTECTION LAYOUT.
 - 14) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RECORDING OF THE FINAL PLAN.
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 - 21) ALL IMPROVEMENTS IN THE RIGHT-OF-WAY INVOLVING STORMWATER MANAGEMENT SHALL COMPLY WITH THE CITY OF WILMINGTON TRAFFIC ENGINEERING CONSTRUCTION/INSTALLATION STANDARDS (SECTION V-J PER THE CITY OF WILMINGTON TECHNICAL STANDARDS)

APPROVED CONDITIONAL DISTRICT ZONING CONDITIONS:

- 1) THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL COMPLY WITH ALL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE, THE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL AND ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION, AS WELL AS ANY CONDITION STATED BELOW. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY.
- 2) APPROVAL OF THIS REZONING REQUEST DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. FINAL APPROVAL BY THE TECHNICAL REVIEW COMMITTEE AND THE ISSUANCE OF ALL REQUIRED PERMITS MUST OCCUR PRIOR TO RELEASE OF THE PROJECT FOR CONSTRUCTION.
- 3) IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.
- 4) THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL BE IN ACCORDANCE WITH THE PLAN AS SUBMITTED OCTOBER 25, 2012 AND APPROVED. THE PERMITTED USE SHALL BE RESTRICTED TO A MAXIMUM 24-UNIT MULTI-FAMILY DEVELOPMENT.
- 5) ALL EXISTING PROTECTED TREES NOT IMPACTED BY ESSENTIAL SITE IMPROVEMENTS SHALL BE PRESERVED OR MITIGATED.
- 6) THE DEVELOPMENT MUST COMPLY WITH ALL OPEN SPACE REQUIREMENTS.
- 7) ACCESS TO THE SITE SHALL BE PROVIDED TO LAKE AVENUE AND SPIREA DRIVE; SPIREA DRIVE WILL BE AN INGRESS ONLY ACCESS.
- 8) SIDEWALKS SHALL BE PROVIDED ON LAKE AVENUE AND SPIREA DRIVE.
- 9) STREETYARDS SHALL BE INSTALLED ON LAKE AVENUE AND SPIREA DRIVE.
- 10) BUFFERYARDS IN ACCORDANCE WITH ARTICLE 8 OF THE LAND DEVELOPMENT CODE SHALL BE INSTALLED ADJACENT TO ALL EXISTING SINGLE-FAMILY DISTRICTS.
- 11) EXTERIOR SITE LIGHTING SHALL BE INSTALLED SO AS NOT TO SHINE DIRECTLY ONTO ADJACENT PARCELS.
- 12) A CONCEPTUAL SITE LIGHTING PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION RELEASE.
- 13) ANY FREESTANDING SIGN(S) ON THE SITE SHALL BE MONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN; NO POLE SIGNS SHALL BE PERMITTED AND INTERNAL ILLUMINATION SHALL BE PROHIBITED.
- 14) ALL APPLICABLE CITY, STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED.

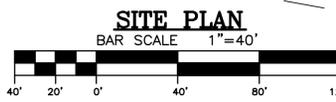
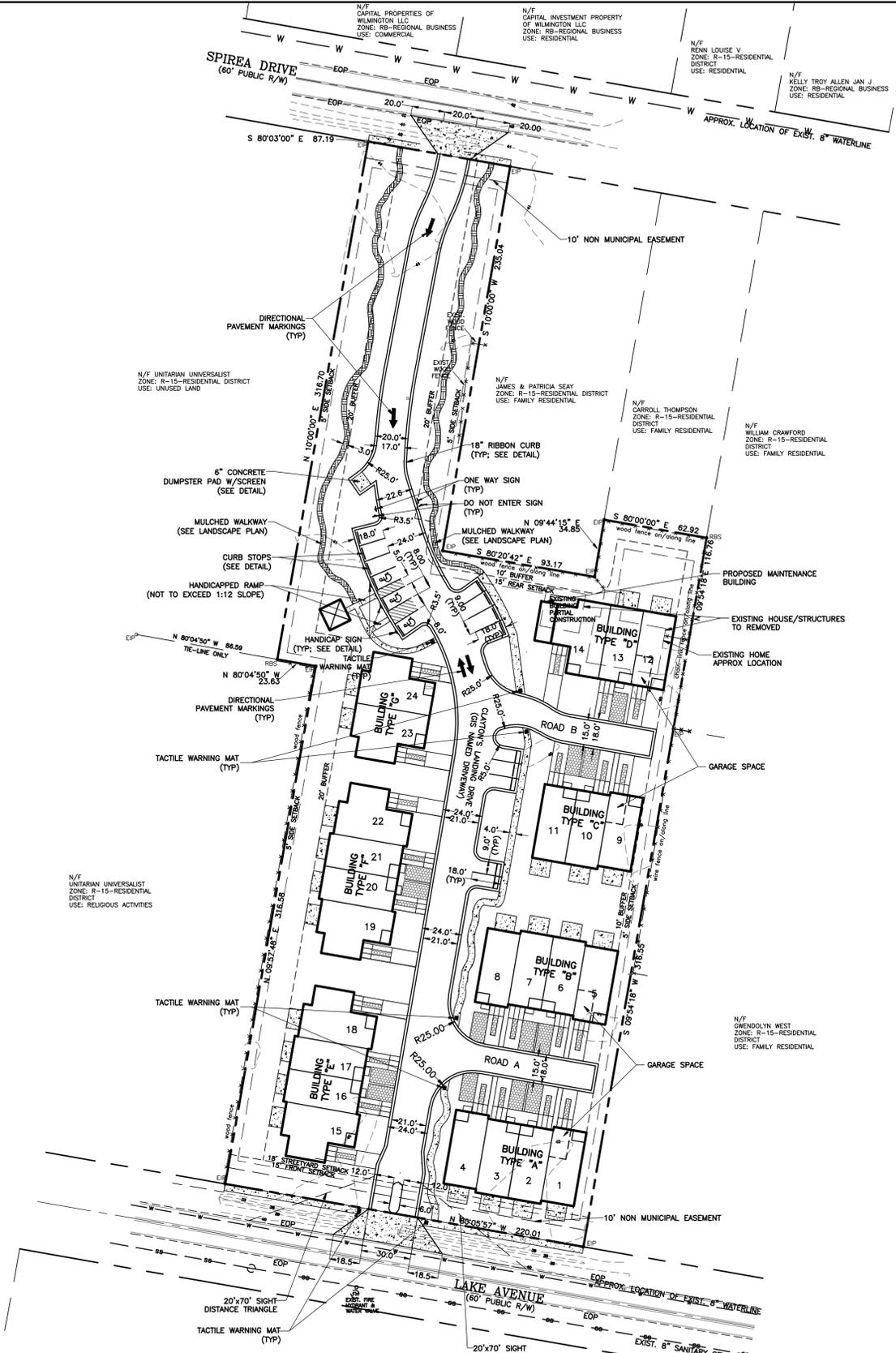
STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
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Approved Construction Plan

Name	Date
Planning	
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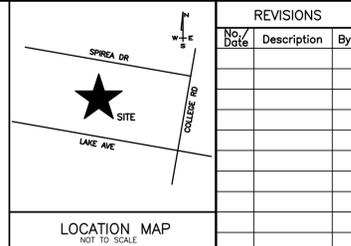


LEGEND

	PROPERTY LINE (BOUNDARY)
	RIGHT OF WAY
	PROPOSED CONCRETE AREA
	PROPOSED MULCHED AREA
	PERVIOUS PAVERS

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NO WETLANDS LOCATED ON-SITE	
LATITUDE AND LONGITUDE	34°12'25"N 77°53'24"W
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE	
ZONING DISTRICT	MF-L (CD), MULTI-FAMILY LOW DENSITY (CONDITIONAL DISTRICT)
DISTURBED AREA	2.79 AC (TOTAL) 2.57 AC (ON-SITE) 0.22 AC (OFF-SITE)
SETBACKS REQUIRED	FRONT: 15' REAR: 15' SIDE (INTERIOR): 5' SIDE (CORNER): 10'
SETBACKS PROPOSED	FRONT: 18' REAR: 20' SIDE (INTERIOR): 25.5' SIDE (CORNER): N/A
TRACT AREA	112,171 SF (2.57 AC)
BUILDING USE	MULTI-FAMILY
PROPOSED # OF UNITS	24 (2-STORY UNITS)
MAXIMUM BUILDING HEIGHT	7'
CAMA LAND USE:	URBAN
EXISTING IMPERVIOUS AREAS (ON-SITE)	
EXISTING BUILDINGS	2,000 SF
EXISTING GRAVEL ROAD	7,100 SF
EXISTING IMPERVIOUS TO BE REMOVED	9,100 SF
EXISTING IMPERVIOUS TO REMAIN	0 SF (0.0%)
PROPOSED IMPERVIOUS AREAS (ON-SITE)	
PROPOSED BUILDINGS	23,811 SF (21.3%)
PROPOSED SHELTER	196 SF
PROPOSED ASPHALT/CURB	21,540 SF
PROPOSED CONCRETE (SIDEWALK/PATIO/D.W.)	6,390 SF
PROPOSED PERVIOUS PAVERS/CONCRETE	905 SF
(TOTAL: 3,618 SF)	
(WITH 75% IMPERVIOUS CREDIT)	
PROPOSED FUTURE IMPERVIOUS	2,000 SF
PROPOSED ON-SITE IMPERVIOUS AREA	54,842 SF (49%)
PROPOSED+EXISTING IMPERVIOUS AREA	54,842 SF (49%)
PROPOSED IMPERVIOUS AREAS (OFF-SITE)	
PROPOSED DRIVEWAY APRON	1,685 SF
PROPOSED OFF-SITE SIDEWALK	975 SF
PROPOSED OFF-SITE IMPERVIOUS AREA	2,660 SF
ON-SITE+OFF-SITE IMPERVIOUS AREA	57,502 SF (51.3%)
PARKING INFO:	
MINIMUM: 2.25/3-BED UNIT (24 UNITS)	54 SPACES
MAXIMUM: 2.50/3-BED UNIT (24 UNITS)	60 SPACES
PROPOSED OFF-STREET PARKING	12 SPACES
PROPOSED HANDICAPPED PARKING	3 SPACES
PROPOSED DRIVEWAY PARKING	41 SPACES
TOTAL PARKING SPACES PROVIDED	56 SPACES
PUBLIC WATER AND SEWER BY CEPIA	
PROPOSED WATER FLOW (360 GPD/UNIT x 24 UNITS x 110%)	9,504 GPD
PROPOSED SEWER FLOW (360 GPD/UNIT x 24 UNITS)	8,640 GPD
*NOTE: 1 UNIT = 3 BEDROOMS	
*NOTE: OPEN SPACE, SETBACKS, AND BUFFERS SHOWN ON LANDSCAPE PLAN.	

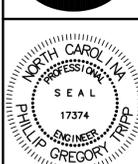


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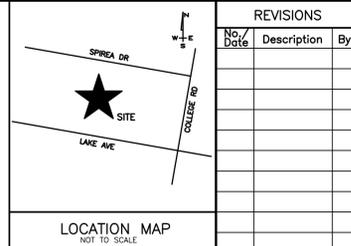
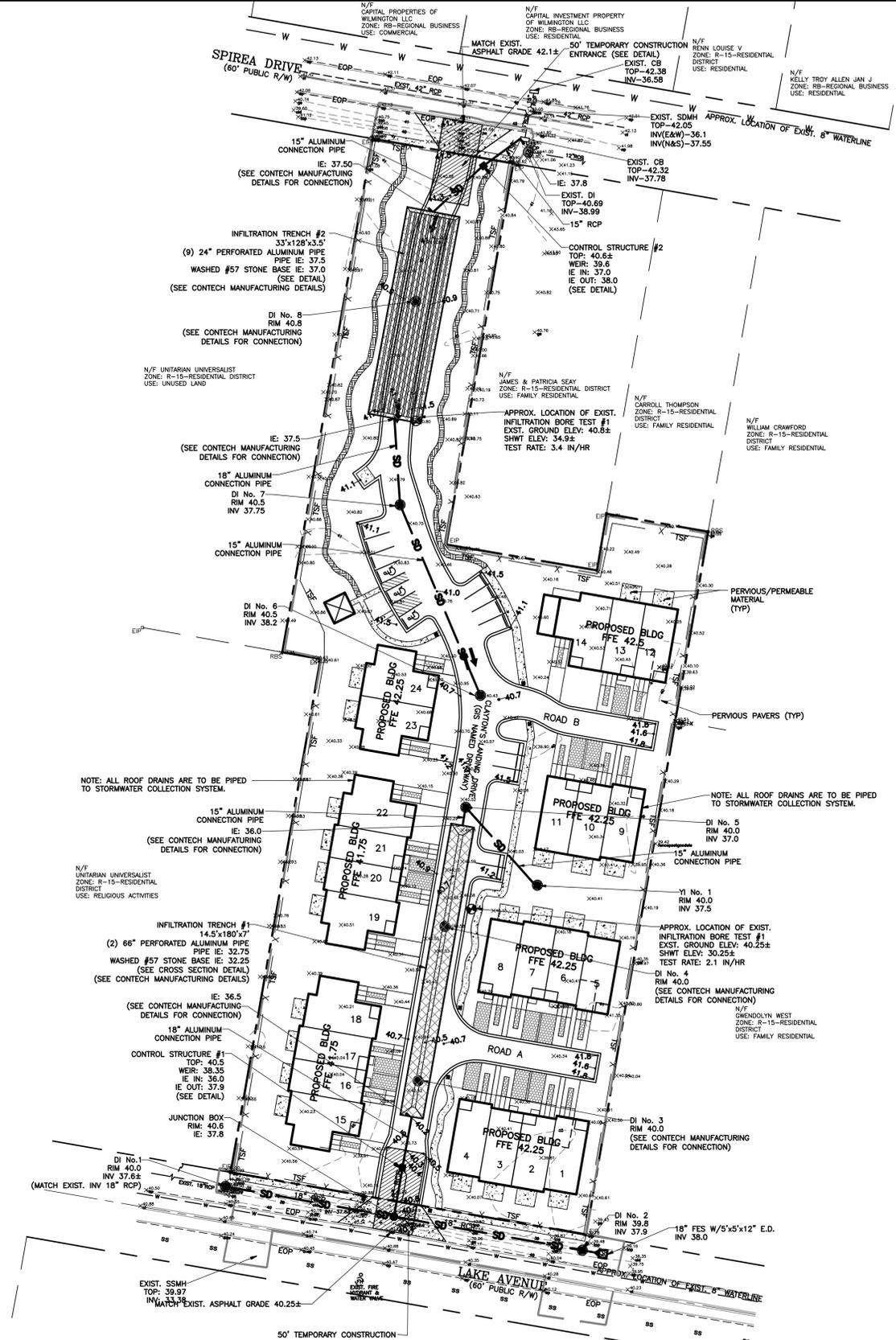
SITE PLAN
 LAKE PARK VILLAGE
 WILMINGTON, NORTH CAROLINA



DATE 06-27-13
DESIGN PGT
DRAWN EJW

C2
SHEET 2 OF 5
12034

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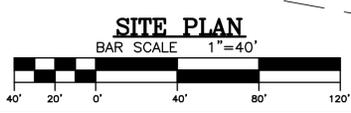
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LEGEND

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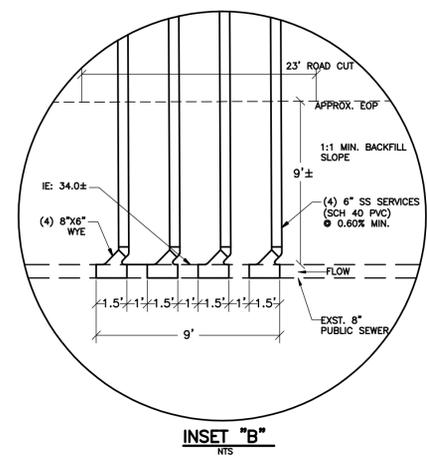
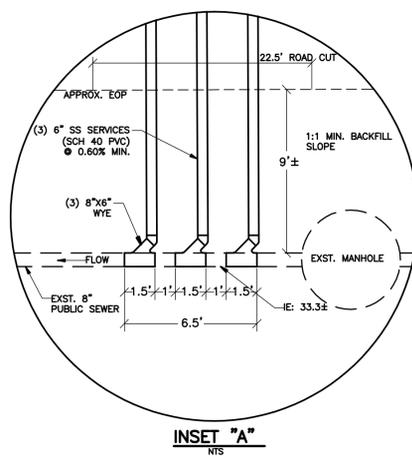
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 - 13) SEE LANDSCAPE PLAN AND TREE REMOVAL PLAN FOR TREE PROTECTION LAYOUT.
 - 14) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RECORDING OF THE FINAL PLAN.
 - 15) PIPE MANUFACTURING REPRESENTATIVE TO BE ON-SITE AT LEAST 2 DAYS FOR TECHNICAL ASSISTANCE DURING INFILTRATION TRENCH PIPE CONSTRUCTION. CONTRACTOR TO COORDINATE WITH CONTECH ENGINEERED SOLUTIONS PRIOR TO CONSTRUCTION. CONTACT: PHILIP BYRD, 910-228-8421
 - 16) ALL PATIOS TO BE PERVIOUS/PERMEABLE MATERIALS. (TYPICAL)
 - 17) CONTRACTOR TO LOCATE DEPTH, MATERIAL, SIZE, AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - 18) INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
 - 19) ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
 - 20) IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAMES. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
 - 21) ALL IMPROVEMENTS IN THE RIGHT-OF-WAY INVOLVING STORMWATER MANAGEMENT SHALL COMPLY WITH THE CITY OF WILMINGTON TRAFFIC ENGINEERING CONSTRUCTION/INSTALLATION STANDARDS (SECTION V-J PER THE CITY OF WILMINGTON TECHNICAL STANDARDS)

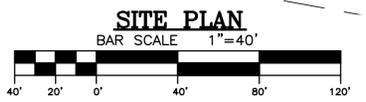
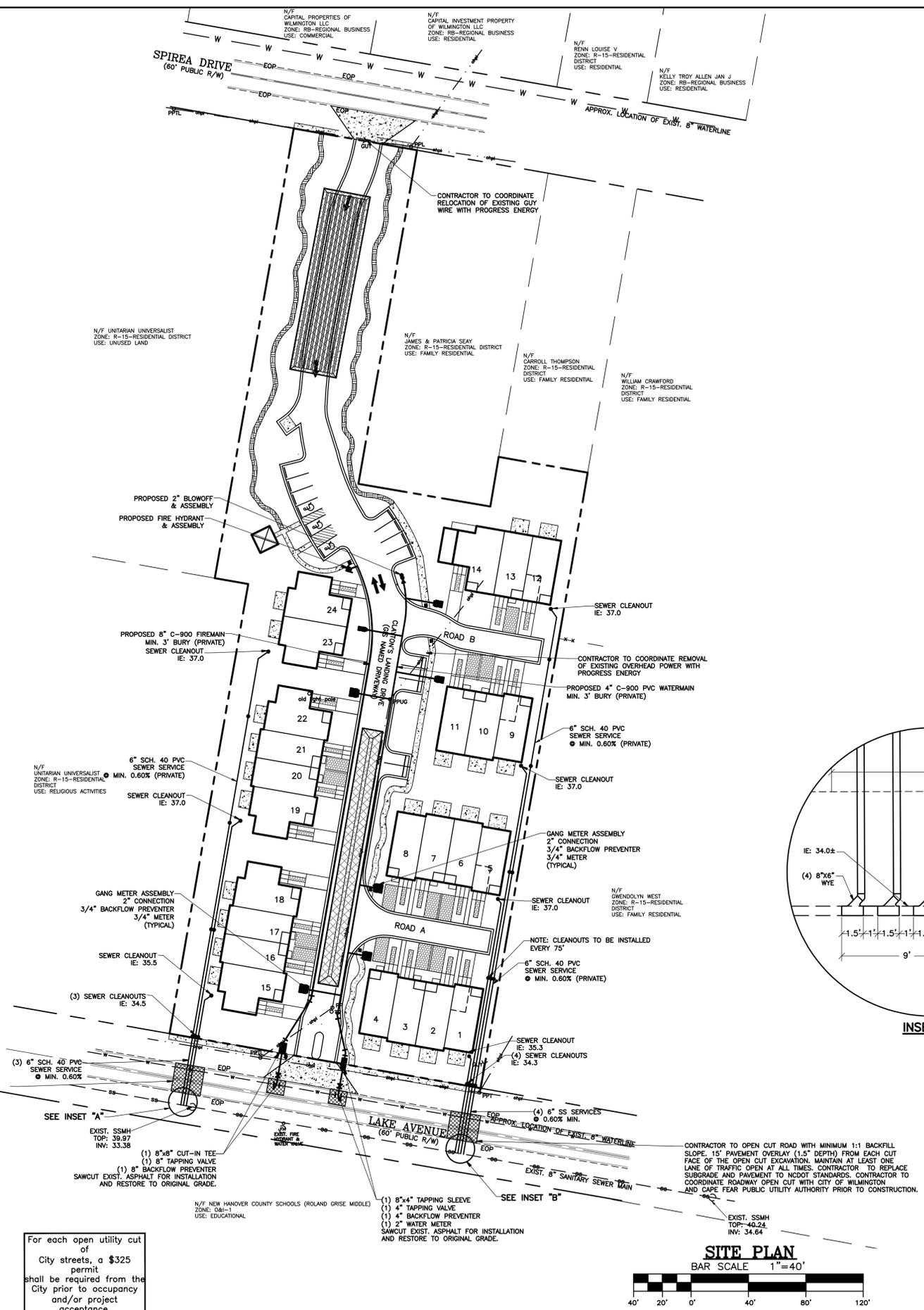


CONTRACTOR TO OPEN CUT ROAD WITH MINIMUM 1:1 BACKFILL SLOPE. 15' PAVEMENT OVERLAY (1.5" DEPTH) FROM EACH CUT FACE OF THE OPEN CUT EXCAVATION. MAINTAIN AT LEAST ONE LANE OF TRAFFIC OPEN AT ALL TIMES. CONTRACTOR TO REPLACE SUBGRADE AND PAVEMENT TO NCDOT STANDARDS. CONTRACTOR TO COORDINATE ROADWAY OPEN CUT WITH CITY OF WILMINGTON AND CAPE FEAR PUBLIC UTILITY AUTHORITY PRIOR TO CONSTRUCTION.

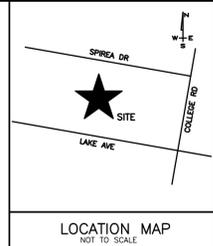
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

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

Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____



- LEGEND
- PROPERTY LINE (BOUNDARY)
 - RIGHT OF WAY
 - W-W- EXISTING WATERLINE
 - W-W- PROPOSED WATERLINE
 - EXISTING SEWER MAIN
 - PROPOSED SEWER MAIN



REVISIONS		
No.	Date	Description

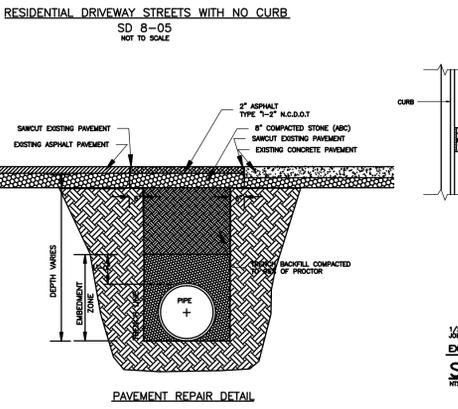
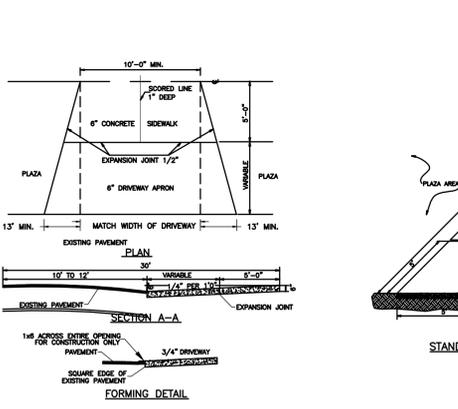
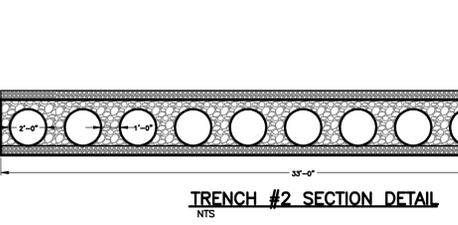
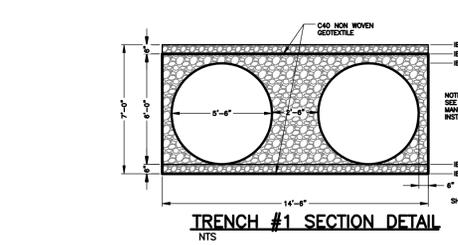
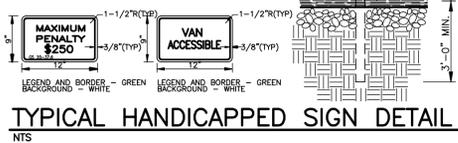
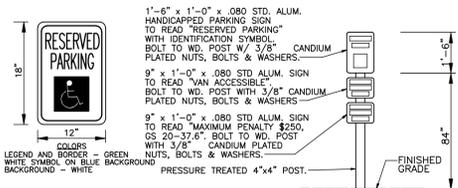
UTILITY PLAN
LAKE PARK VILLAGE
WILMINGTON, NORTH CAROLINA

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



DATE 06-27-13
DESIGN PGT
DRAWN EJW

C4
SHEET 4 OF 5
12034



STORMWATER MANAGEMENT PLAN APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT

Approved Construction Plan Name _____ Date _____

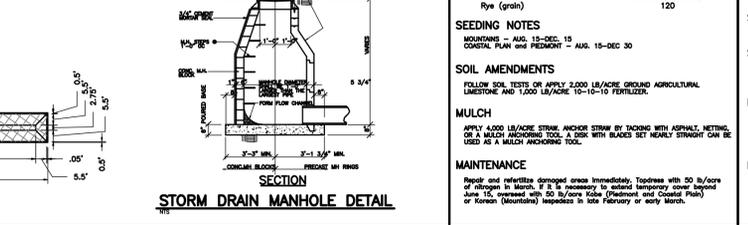
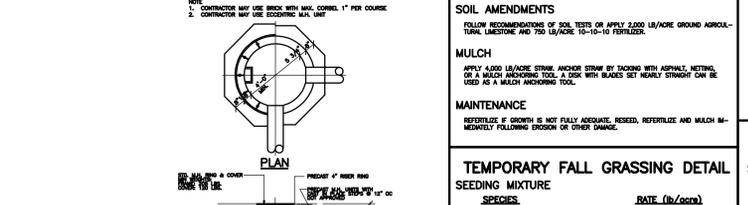
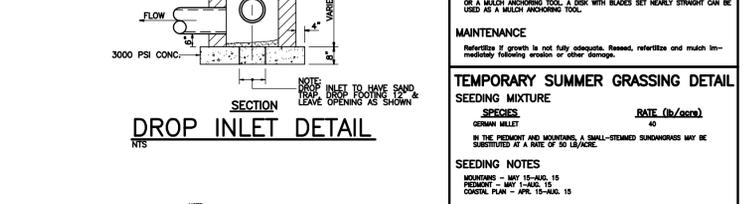
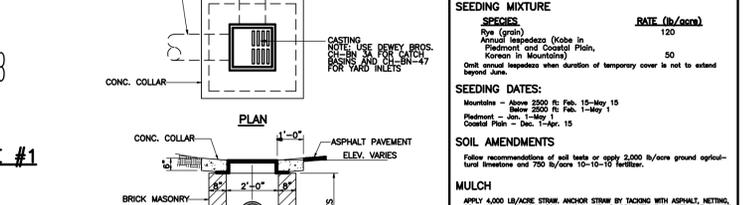
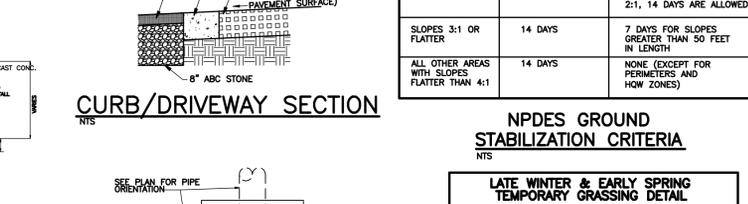
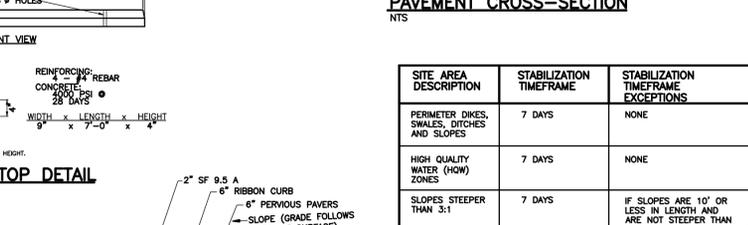
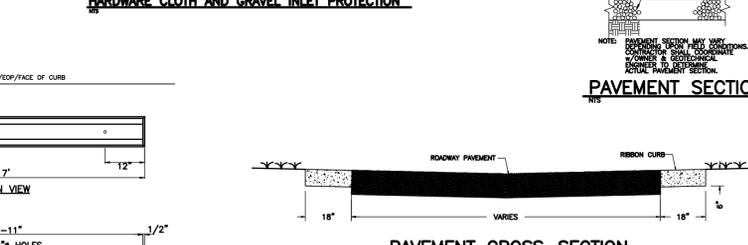
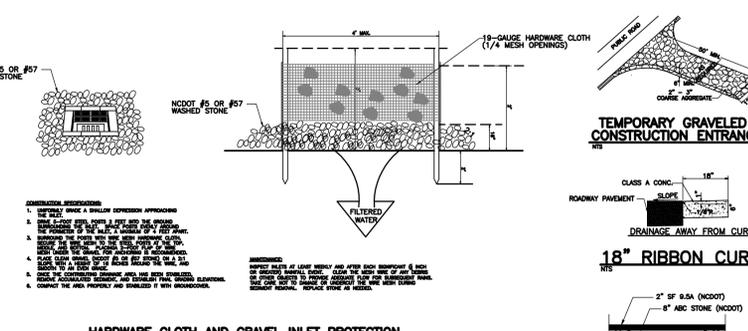
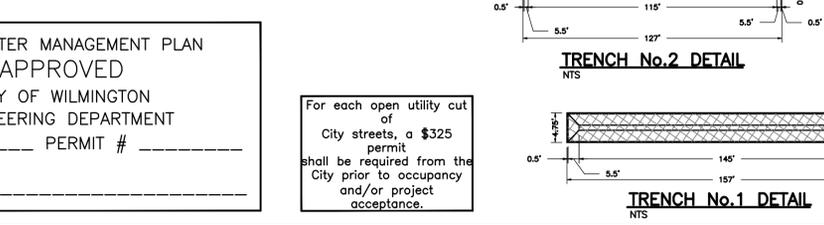
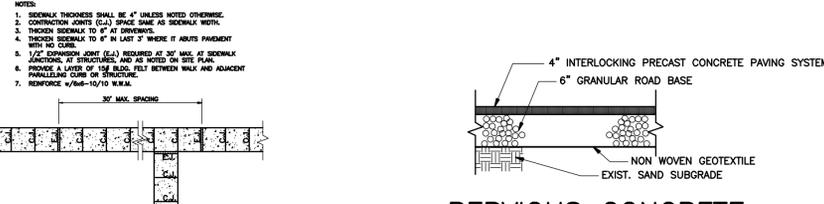
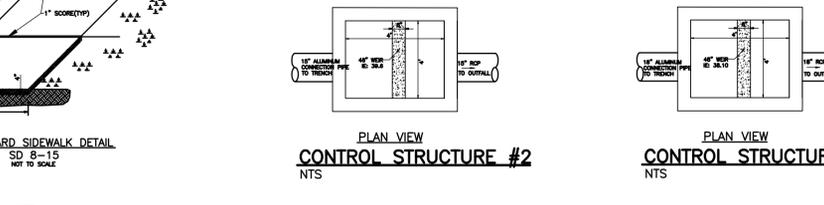
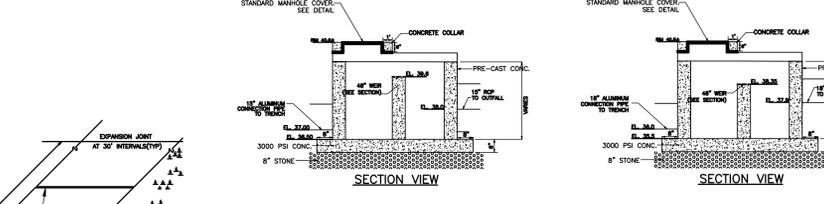
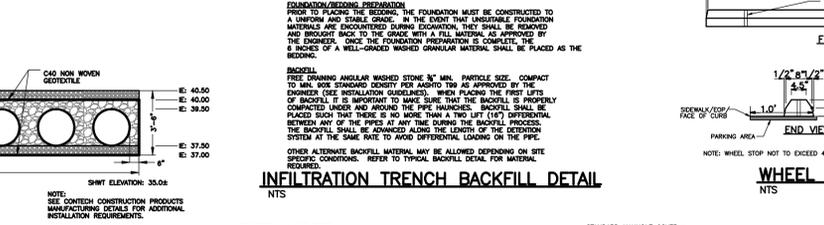
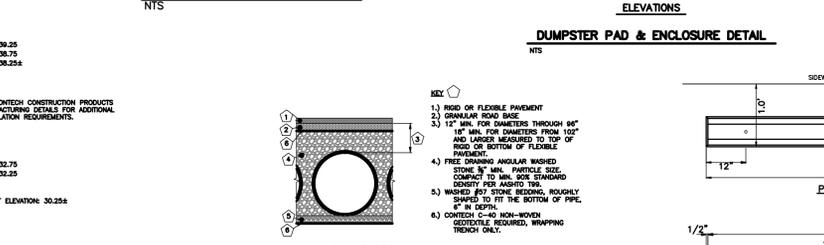
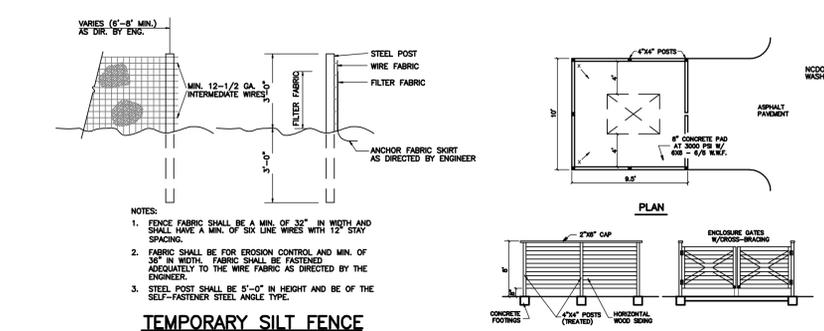
Planning _____

Traffic _____

Fire _____

DATE _____ PERMIT # _____

SIGNED _____



- SITE WORK NOTES**
1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR 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 DESIGNATED TO REMAIN.
 3. GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
 4. MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
 5. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
 6. FILL AND COMPACTOR 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 OF ALL 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 IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
 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 GARY W. KEYES 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 PVC 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. PAVEMENT BASE AND SUBGRADE SHALL CONFORM TO ALL 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. ALL PAVEMENT MARKINGS SHALL CONFORM TO ALL STANDARDS INCLUDING WORKMANSHIP, MATERIALS AND EQUIPMENT. PAVEMENT MARKINGS SHALL BE A CHLORINATED RUBBER ALKYL, FS II-T-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON BLEEDING. REFLECTIVE MATERIAL MAY BE ADDED AT OWNER'S OPTION FOR NIGHT REFLECTANCE.
 20. DUCTILE IRON SHALL BE CLASS 50.
 21. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - 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

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
PERIMETER 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 2:1, 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 PERIMETERS AND HOW ZONES)

NPDES GROUND STABILIZATION CRITERIA
NTS

LATE WINTER & EARLY SPRING TEMPORARY GRASSING DETAIL

SEEDING MIXTURE

SPECIES	RATE (lb/acre)
GRASS (grain)	120
Annual ryegrass (Kobe in Piedmont and Coastal Plain, Korman in Mountains)	50
Orbit annual lespedeza when duration of temporary cover is not to extend beyond June.	50

SEEDING DATES:
Mountains - May 15-Aug. 15
Piedmont - May 15-Aug. 15
Coastal Plain - Dec. 1-Apr. 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.

MULCH
APPLY 4,000 LB/ACRE STRAW ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MACH ANCHORING TOOL. SOIL WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MACH ANCHORING TOOL.

MAINTENANCE
Refer to site plan for full details. Reseed, re-fertilize and mulch immediately following erosion or other damage.

TEMPORARY SUMMER GRASSING DETAIL

SEEDING MIXTURE

SPECIES	RATE (lb/acre)
GERMAN MILLET	40
IN THE PIEDMONT AND MOUNTAINS, A SMALL-SEEDED BERMUDAGRASS MAY BE USED AT A RATE OF 50 LB/ACRE.	

SEEDING NOTES
MOUNTAINS - MAY 15-AUG. 15
PIEDMONT - 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.

MULCH
APPLY 4,000 LB/ACRE STRAW ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MACH ANCHORING TOOL. SOIL WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MACH ANCHORING TOOL.

MAINTENANCE
Refer to site plan for full details. Reseed, re-fertilize and mulch immediately following erosion or other damage.

PERMANENT GRASSING DETAIL

SEEDING MIXTURE

SPECIES	RATE (lb/acre)
PERVIOUS BERMUDAGRASS	50
COMMON BERMUDAGRASS	50
ORBIT ANNUAL LESPEDEZA	50
TALL FESCUE	50

SEEDING NOTES
1. WHERE A NEW APPEARANCE IS REQUIRED, OBTAIN SEEDS.
2. USE COMMON BERMUDAGRASS OR PERVIOUS BERMUDAGRASS WHERE IT CANNOT BECOME A PEST. BERMUDAGRASS MAY BE REPLACED WITH 8/9/05 CERTIFIED GRASS.

SEEDING DATES
APRIL 1 - JULY 15

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000-5,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MATERIAL. SOIL WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MACH ANCHORING TOOL. SOIL WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MACH ANCHORING TOOL.

MAINTENANCE
FERTILIZE ACCORDING TO SOIL TESTS OR APPLY 40 LB/ACRE NITROGEN IN JANUARY OR FEBRUARY. IN MARCH, IT IS NECESSARY TO APPLY TEMPORARY COVER. BERMUDAGRASS MAY BE REPLACED WITH 8/9/05 CERTIFIED GRASS. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

REVISIONS

No.	Date	Description	By

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419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5681
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WILMINGTON PROFESSIONAL SEAL
17374
GREGORY TRIPP

DATE 06-27-13
DESIGN PGT
DRAWN EJW

C5

SHEET 5 OF 5
12034