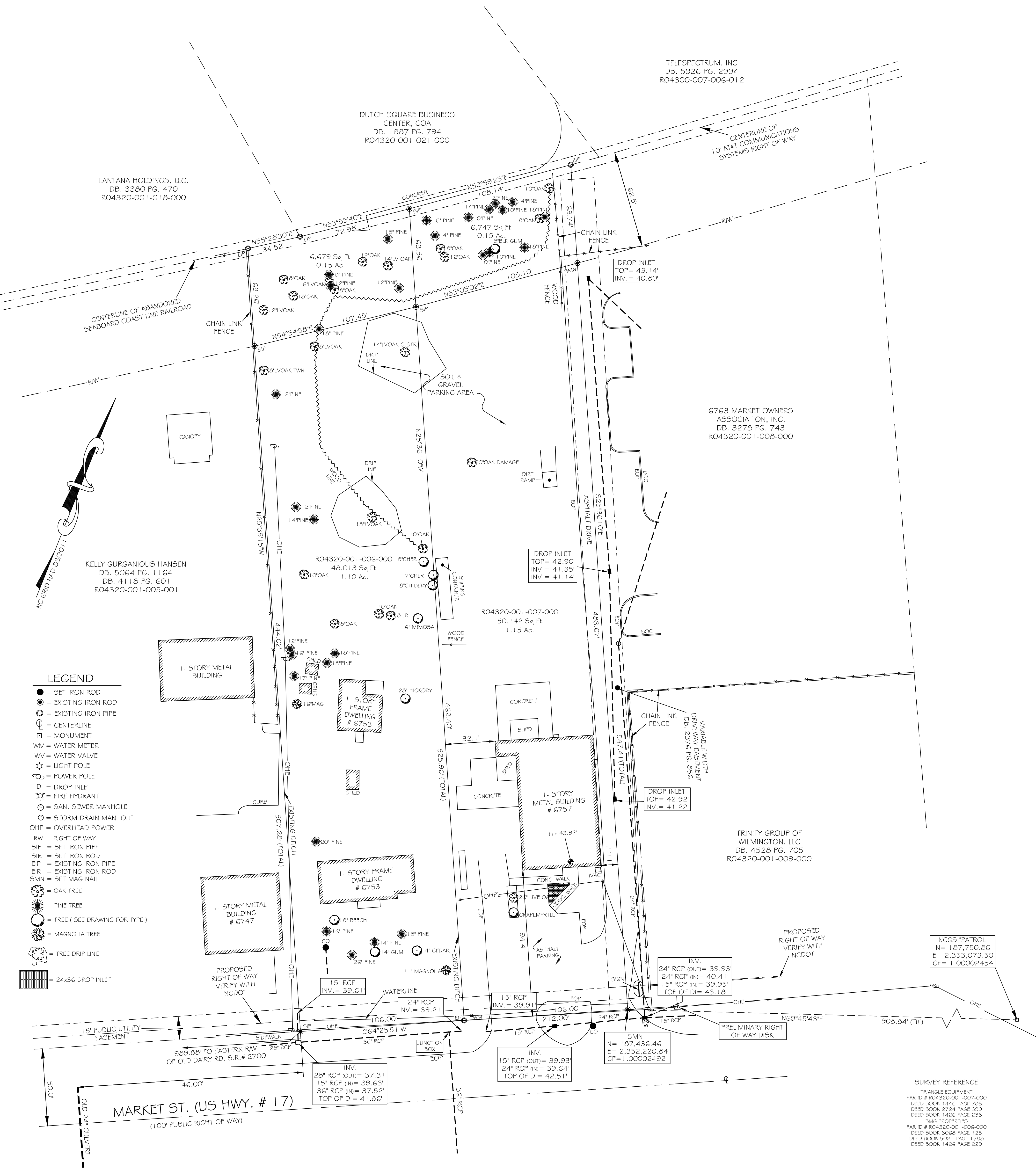


I, MARK A. STOCKS, CERTIFY THAT THIS PROPERTY WAS SURVEYED AND MAP DRAWN UNDER MY SUPERVISION; DESCRIPTION AS SHOWN ON THE FACE OF THIS PLAT; RATIO OF PRECISION AS CALCULATED BY COMPUTER IS 1:10,000+; THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN BY BROKEN LINES PLOTTED FROM INFORMATION REFERENCED; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA; WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 24TH DAY OF OCTOBER, A.D. 2017.

MARK A. STOCKS
N.C. PLS No. L-3658

- NOTES:
- THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" AS PER FIRM COMMUNITY PANEL # 3158 MAP # 3720315800J, DATED: APRIL 3, 2006.
 - CID # 370171. INDEX DATED: OCTOBER 16, 2008.
 - THE CURRENT ZONING FOR THE SUBJECT PROPERTY IS: RD-REGIONAL BUSINESS.
 - ALL ELEVATIONS ARE REFERENCED TO N.A.V.D. 1988
 - ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
 - AREA BY COMPUTER.
 - NO UNDERGROUND UTILITIES LOCATED BY THIS SURVEY EXCEPT AS SHOWN.
 - BEFORE EXCAVATING CONTACT ALL THE UTILITY COMPANIES TO MARK ALL UNDERGROUND UTILITIES.
 - THESE TRACTS ARE SUBJECT TO ALL UTILITY EASEMENTS, RESTRICTIONS, OR COVENANTS OF RECORD.
 - GRID TIE BY OPUS OBSERVATION AND GROUND SURVEY.



LEGEND

- = SET IRON ROD
- = EXISTING IRON ROD
- = EXISTING IRON PIPE
- = CENTERLINE
- = MONUMENT
- WM = WATER METER
- WV = WATER VALVE
- ☆ = LIGHT POLE
- ⊕ = POWER POLE
- DI = DROP INLET
- ⊕ = FIRE HYDRANT
- = SAN. SEWER MANHOLE
- = STORM DRAIN MANHOLE
- OHP = OVERHEAD POWER
- RW = RIGHT OF WAY
- SIP = SET IRON PIPE
- SIR = SET IRON ROD
- EIP = EXISTING IRON PIPE
- EIR = EXISTING IRON ROD
- SMN = SET MAG NAIL
- = OAK TREE
- = PINE TREE
- = TREE (SEE DRAWING FOR TYPE)
- = MAGNOLIA TREE
- = TREE DRIP LINE
- ▨ = 24x36 DROP INLET

SURVEY REFERENCE
TRIANGLE EQUIPMENT
PAR ID # R04320-001-007-000
DEED BOOK 1446 PAGE 783
DEED BOOK 2724 PAGE 399
DEED BOOK 1426 PAGE 233
BMG PROPERTIES
PAR ID # R04320-001-006-000
DEED BOOK 3068 PAGE 125
DEED BOOK 5021 PAGE 1786
DEED BOOK 1426 PAGE 229

MARK A. STOCKS, PLS
PROFESSIONAL
LAND SURVEYOR

211 NORTH FIFTH AVE.
WILMINGTON, NC 28401
phone: (910) 763-8124
fax: (910) 763-8458
email: stocksland@bellsouth.net

LICENSE N° 3658

TREE SURVEY FOR
GREGORY TARLTON

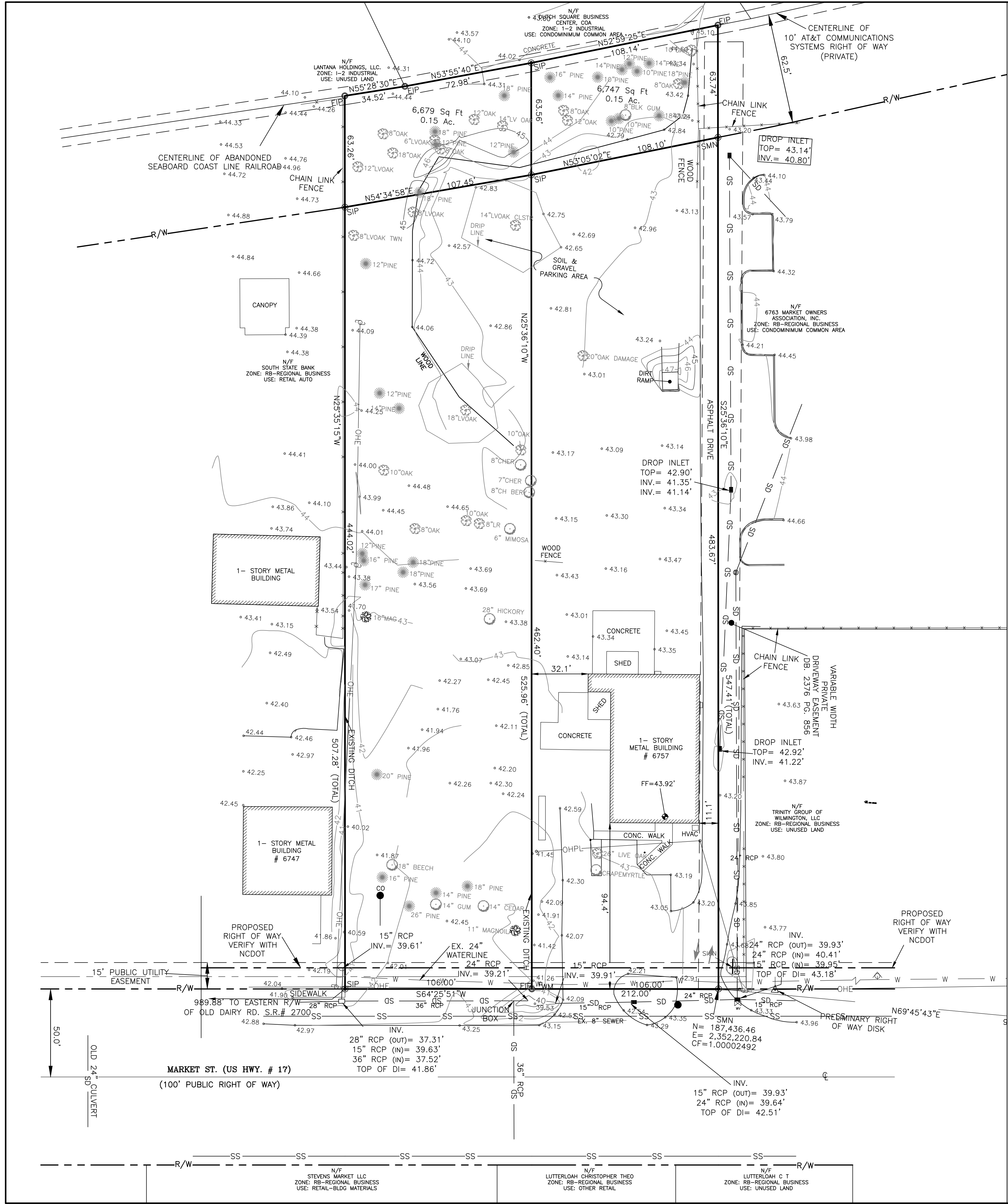
BEING ALL OF D.B. 1446 P.G. 783 & D.B. 3068 P.G. 125 AS RECORDED IN THE NEW HANOVER COUNTY REGISTER OF DEEDS
AND A PORTION OF THE ABANDONED CSX RAILROAD RIGHT OF WAY
CITY OF WILMINGTON WILMINGTON TOWNSHIP NEW HANOVER COUNTY, N.C.

OCTOBER 24, 2017

30 0 15 30 60


1 INCH = 30 FEET


MARK A. STOCKS, PLS OCTOBER 2017



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	


 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____

LEGEND
 • 43.80 EXISTING SPOT ELEVATION
 --- 42 --- EXISTING CONTOUR
SITE PLAN
 BAR SCALE 1"=30'


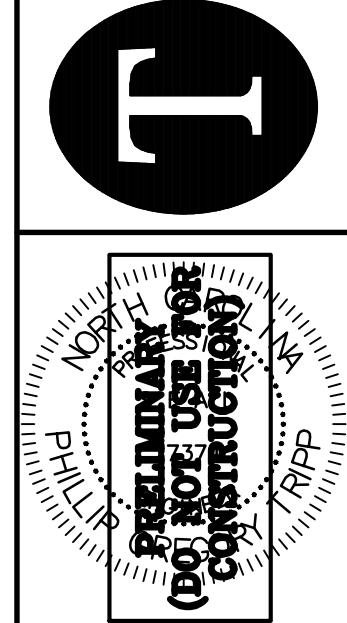


REVISIONS		
No./Date	Description	By

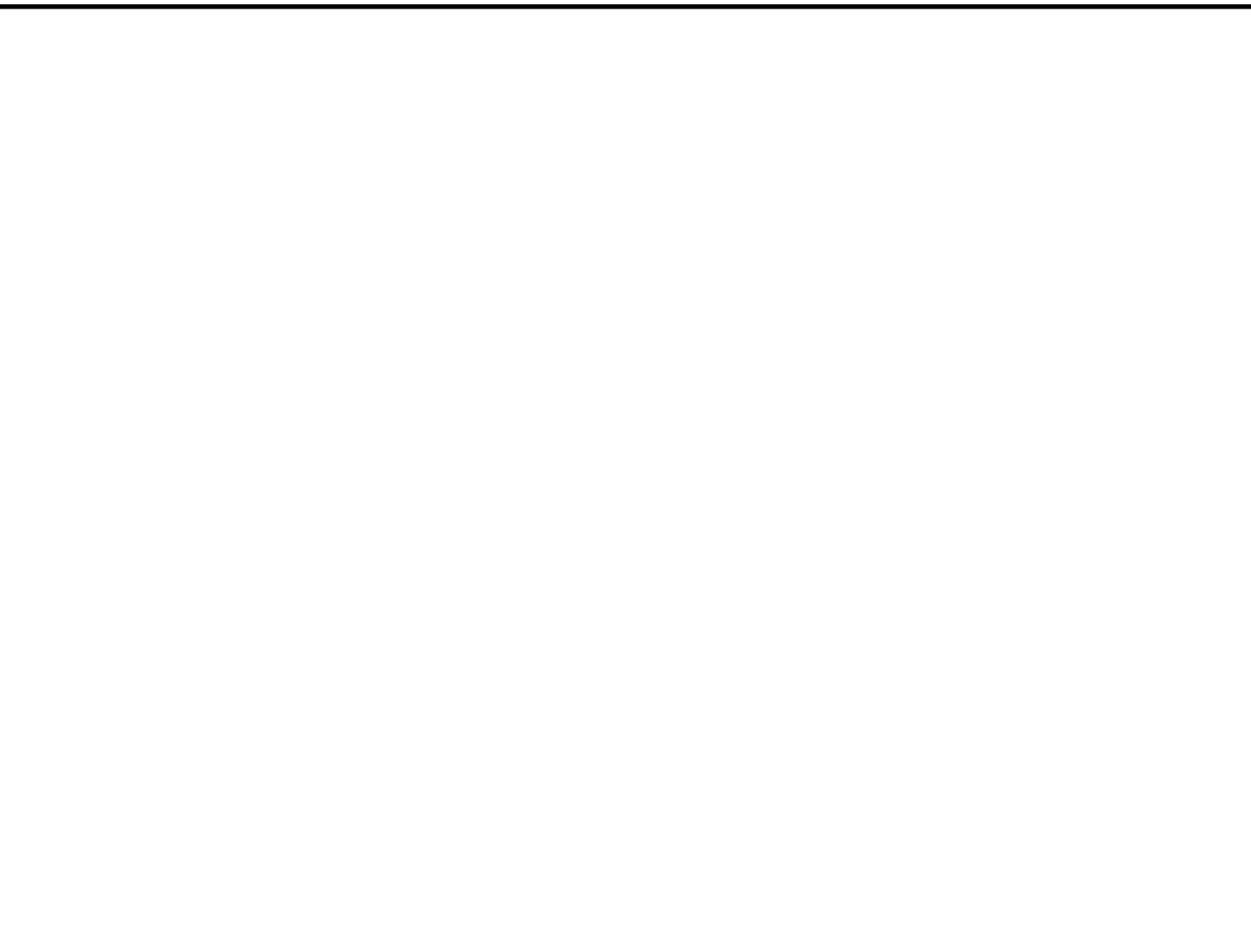
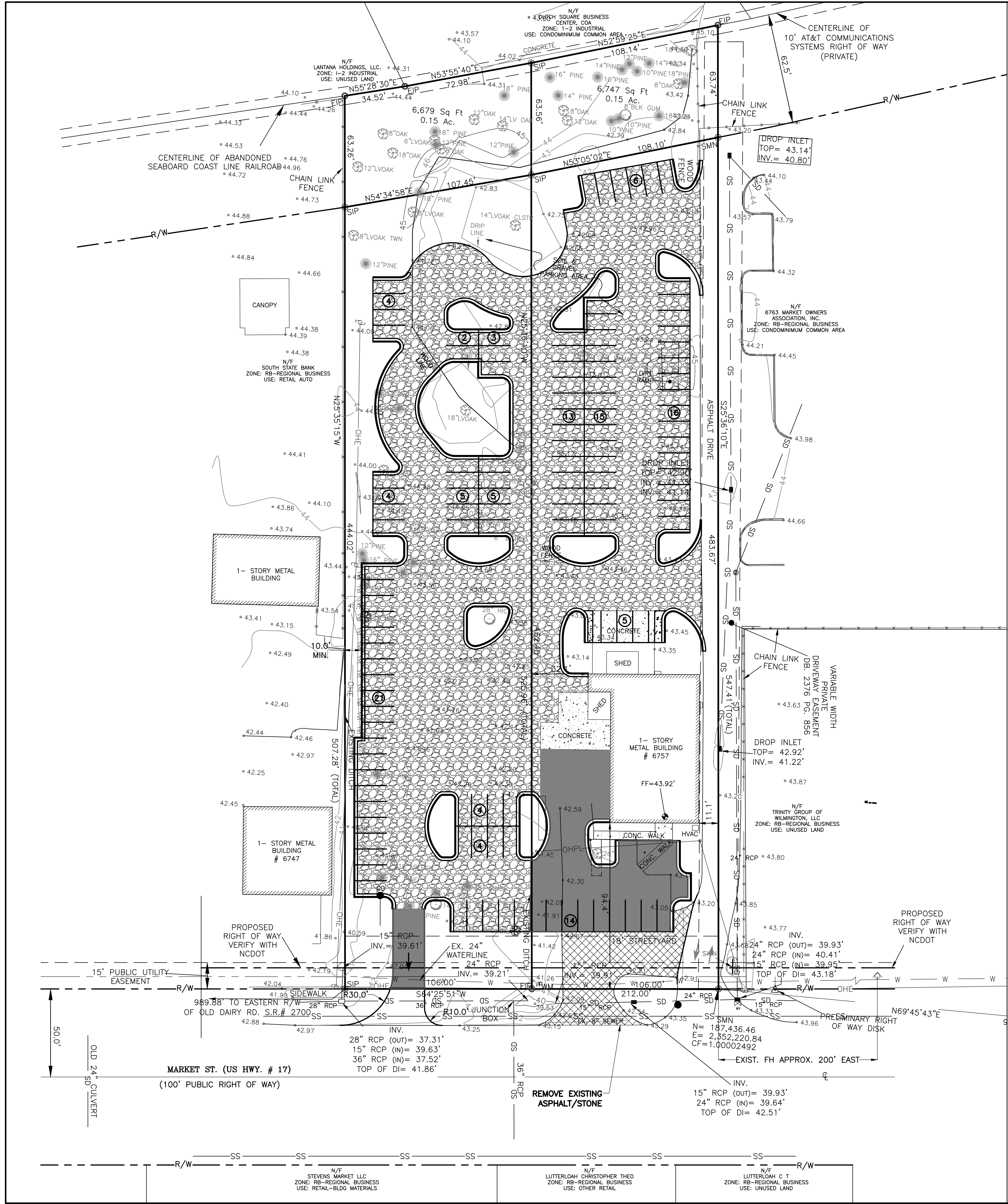
- SITE INVENTORY NOTES:**
- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
 - APPLICANT NAME: GPT INVESTMENTS, LLC
 - SITE ADDRESS OF THE DEVELOPMENT: 6753 AND 6757 MARKET ST.
 - PROPERTY OWNER: GPT INVESTMENTS, LLC
 - DEVELOPER: GPT INVESTMENTS, LLC
 - PROPERTY BOUNDARY: SEE PLAN
TAX PARCEL INFORMATION: R04320-001-006-000
R04320-001-006-000
 - PROPERTY ZONING: RB-REGIONAL BUSINESS
 - 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: Le; LEON SAND
 - CAMA AEC: N/A
 - CAMA LAND CLASSIFICATION: URBAN
 - 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: SEE PLAN
 - PROTECTED SPECIES OR HABITAT: N/A
 - EXISTING OR PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN

SITE INVENTORY
BLUEWATER MOTORSPORTS
WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
© 2018 TRIPP ENGINEERING, P.C.



DATE 05-09-18
 DESIGN PGT
 DRAWN EJW



REVISIONS		
No./Date	Description	By

NOTES:

ZONING:

- 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY MARK A. STOCKS, PLS.
- 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.

SOLID WASTE:

- 1) SITE TO USE ROLL-OUT TYPE CARTS.

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) ALL 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 TRAFFIC ENGINEERING AT 741-7888 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.
- 9) NO STREETS PROPOSED.
- 10) NO OFF-SITE PARKING PROPOSED.
- 11) DRIVEWAY IS PROPOSED.
- 12) TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 13) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- 14) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 15) TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 16) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 17) 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 THE RECORDING OF THE FINAL PLAT. (SD 15-14 CoW TECH STDS)

LANDSCAPING:

- 1) 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.
- 2) 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.
- 3) 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.
- 4) ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

SEPA:

- 1) SITE TO UTILIZE EXISTING UTILITIES.

DRAINAGE:

- 1) SITE TO DRAIN TO A PERMITTED OFFSITE STORMWATER POND.

SITE DATA:

PROPERTY OWNER(S)	GPT INVESTMENTS, LLC 140 KING ARTHUR DR WILMINGTON, NC 28403
PROJECT ADDRESS(ES)	6753 MARKET ST. 6757 MARKET ST.
PIN NUMBER(S)	R04320-001-008-000 R04320-001-007-000
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE	
ZONING DISTRICT	RB-REGIONAL BUSINESS

SETBACKS REQUIRED	FRONT: 25' REAR: 15' SIDE: 0' CORNER LOT SIDE: 25'
PROPOSED BUILDING SETBACKS	FRONT: 94' REAR: 360' SIDE: 10.5' CORNER LOT SIDE: N/A
TRACT AREA	111,580 SF (2.56 AC)
BUILDING USE	AUTOMOBILE DEALER

PROPOSED BUILDING AREA (GROSS)	0 SF
EXISTING BUILDING AREA (GROSS)	4,824 SF
BUILDING LOT COVERAGE (4,824/111,580)	4.3%
NUMBER OF UNITS	1
NUMBER OF BUILDINGS	1
BUILDING HEIGHT	18'
NUMBER OF STORIES	1
SF PER FLOOR (GROSS)	4,390 SF

EXISTING IMPERVIOUS AREAS:	
EXISTING BUILDINGS	4,824 SF
EXISTING ASPHALT	10,440 SF
EXISTING CONCRETE	2,208 SF
TOTAL EXISTING IMPERVIOUS AREA	17,472 SF (15.6%)
EXISTING ONSITE IMPERVIOUS TO BE REMOVED	-2,052 SF
EXISTING IMPERVIOUS TO REMAIN	15,420 SF

PROPOSED ONSITE IMPERVIOUS AREAS:	
PROPOSED BUILDING	825 SF
PROPOSED ASPHALT	132 SF
PROPOSED CONCRETE	132 SF
TOTAL PROPOSED IMPERVIOUS AREA	957 SF (0.9%)

PROPOSED+EXISTING IMPERVIOUS	16,377 SF (14.7%)
PROPOSED PERVIOUS	55,603 SF
PARKING REQUIRED: (AUTOMOBILE DEALER)	4,824 SF
MAXIMUM:	10
MINIMUM: 1/500 SF (4,824/500)	
TOTAL PARKING PROVIDED:	121

CAMA LAND USE:	URBAN
PUBLIC WATER AND SEWER BY CFPWA	
EXISTING WATER FLOW:	600 GPD
EXISTING SEWER FLOW:	500 GPD
PROPOSED WATER FLOW:	300 GPD
PROPOSED SEWER FLOW:	250 GPD

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	_____

City of WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

LEGEND

- 43.80 EXISTING SPOT ELEVATION
- - - 42 EXISTING CONTOUR
- [Cross-hatch] DEMO/TO BE REMOVED
- [Stippled] PROPOSED GRAVEL/TRUEGRID
- [Dark Grey] PROPOSED ASPHALT PAVEMENT
- [Light Grey] CONCRETE

SITE PLAN
BAR SCALE 1"=30'

SITE PLAN

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631
© 2018 TRIPP ENGINEERING, P.C.

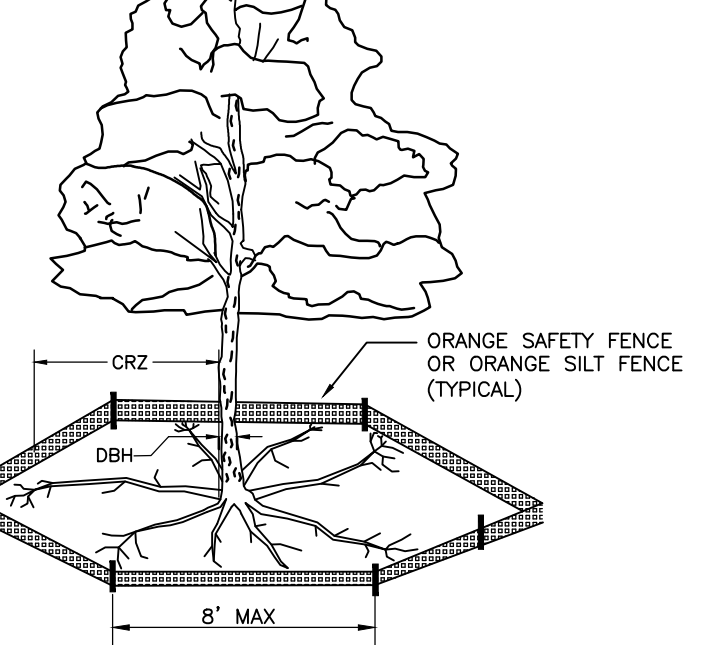
BLUEWATER MOTORSPORTS
WILMINGTON, NORTH CAROLINA

DATE 05-09-18
DESIGN PGT
DRAWN EJW

C2

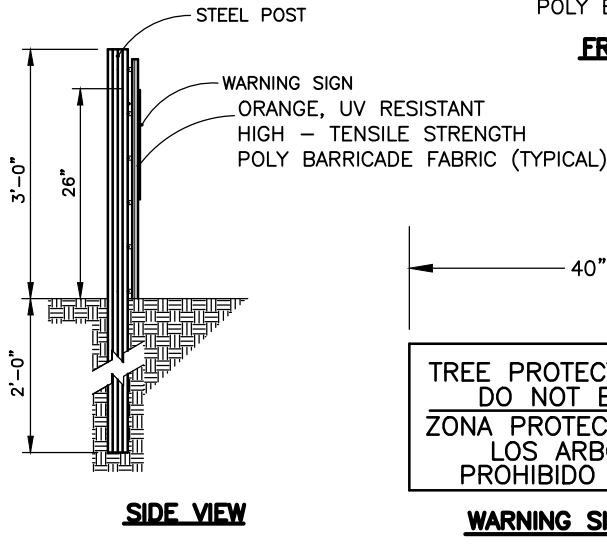
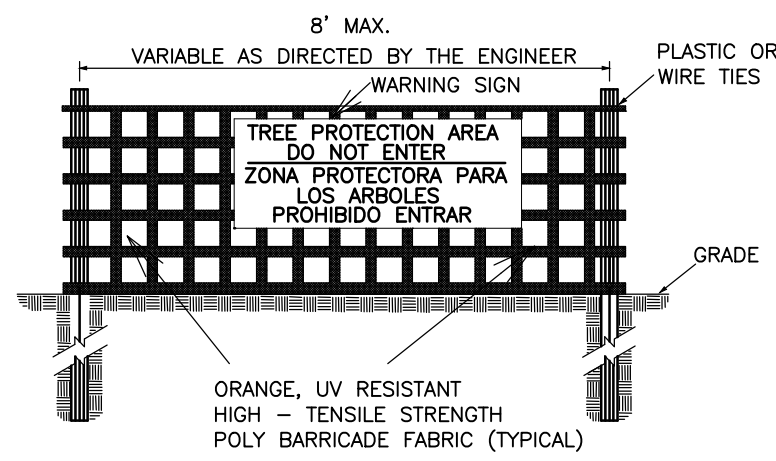
SHEET 2 OF 3
17041

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 GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

- NOTES:**
- PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 - CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 - IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 - 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.
 - 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.
 - 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:**
- THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 - WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 - 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.
 - ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 - TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 - ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

TREE PROTECTION DURING CONSTRUCTION SD 15-09
NOT TO SCALE

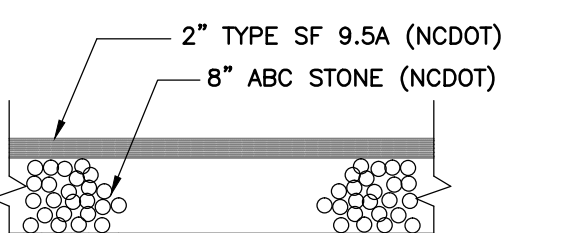
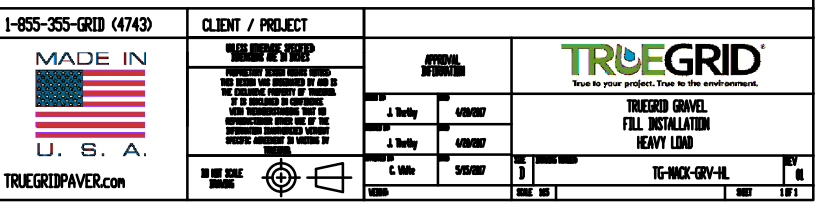
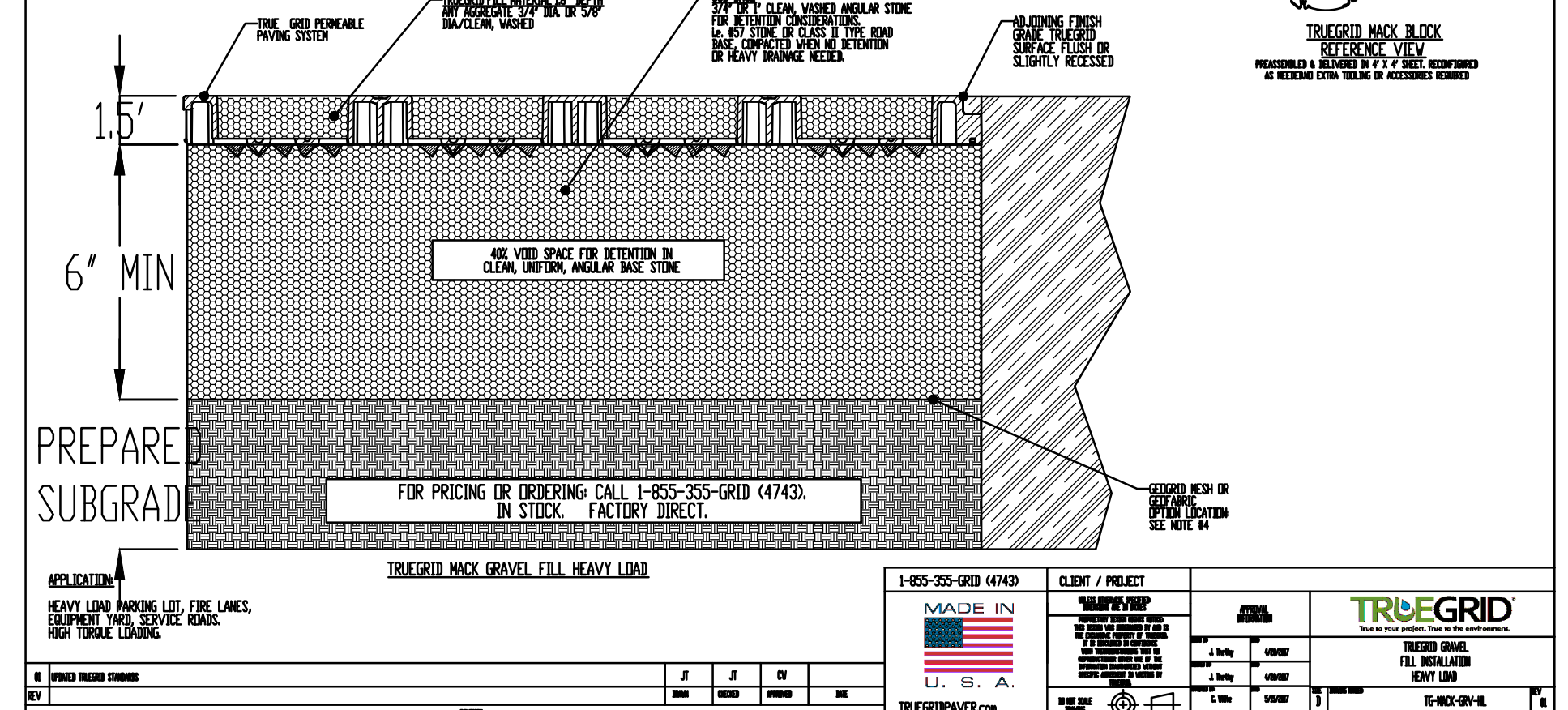
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Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

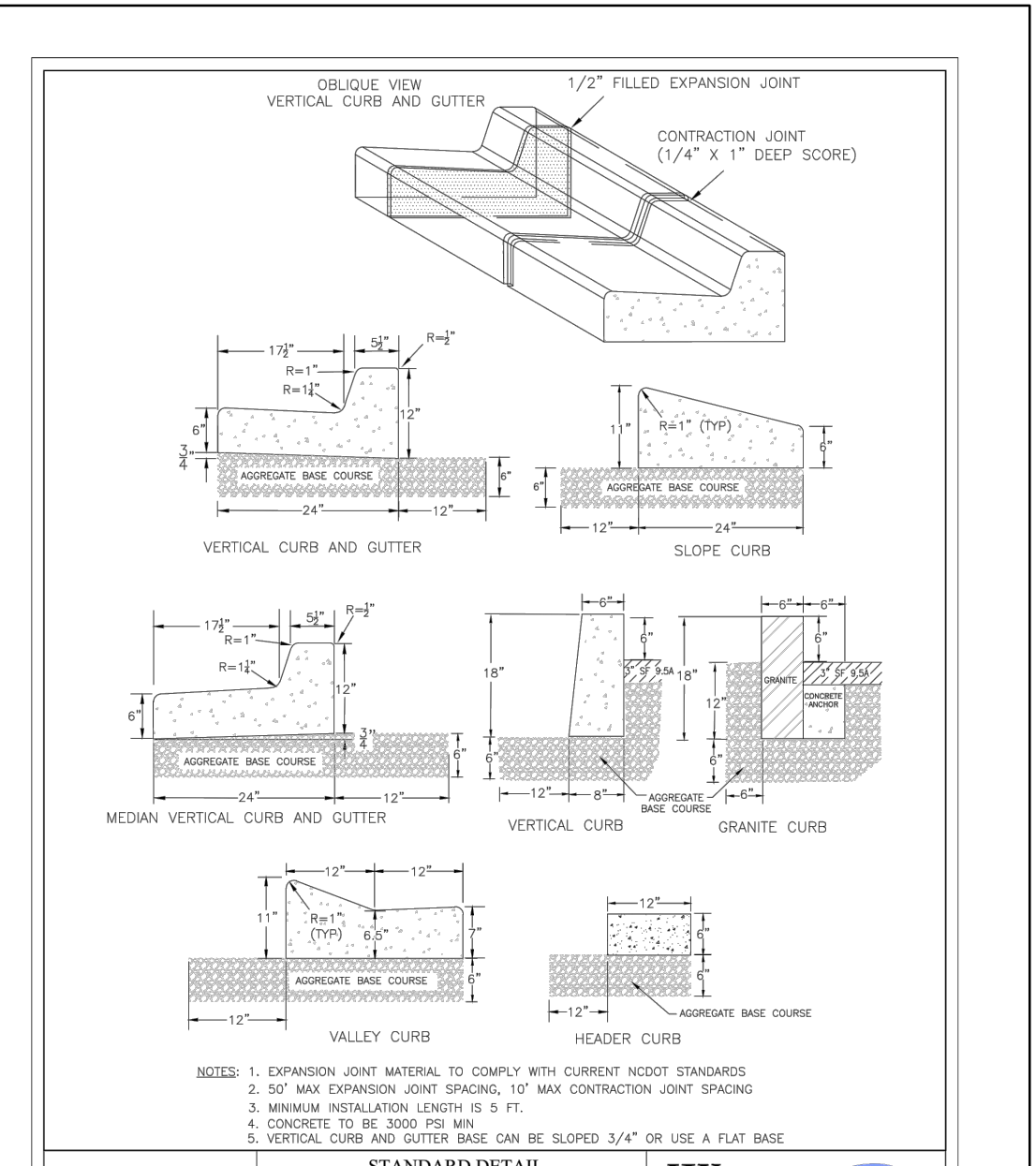
CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

- NOTES:**
- SUB-BASE DEPTH AND PREPARATION IS DEPENDENT ON SITE CONDITIONS PLUS LOADING REQUIREMENTS.
 - TREASED MACK PRODUCTS DESIGNED FOR LOAD CAPACITIES OF 2000 LB/PSI SQ. FT. TREASED PRODUCTS STRENGTHEN WITH FILL WATER.
 - TREASED MACK PRODUCTS ARE SUFFICIENTLY RATED FOR IN-TRUCK AND ON-TRUCK LOADING AND OPERATIONS.
 - GEOTEXTILE OR GEOTEXTILES MAY BE REQUIRED BETWEEN SUB-GRADE & SUB-BASE FOR CERTAIN SOILS AND SITE SPECIFIC REQUIREMENTS.
 - INCREASE SUB-BASE DEPTH FOR INCREASED STORM WATER RETENTION.
 - NO STANDING WATER WITH TREASED MACK WHEN SLOPE IS BELOW 10 DEGREE ASPECT, PROJECT, AS NEEDED.
 - FINAL ENGINEERED CROSS SECTION AGGREGATES AND DEPTH SHOULD ALLOW FOR EXPECTED INFILTRATION RATES, STORAGE CAPACITIES, OUTFLET FLOW RATES, AND OTHER SITE SPECIFIC CONDITIONS AND LOAD REQUIREMENTS.
 - THIS CROSS SECTION IS FOR: INFORMATION ONLY.



NOTE:
PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE WITH OWNER & GEOTECHNICAL ENGINEER. ACTUAL PAVEMENT SECTION.

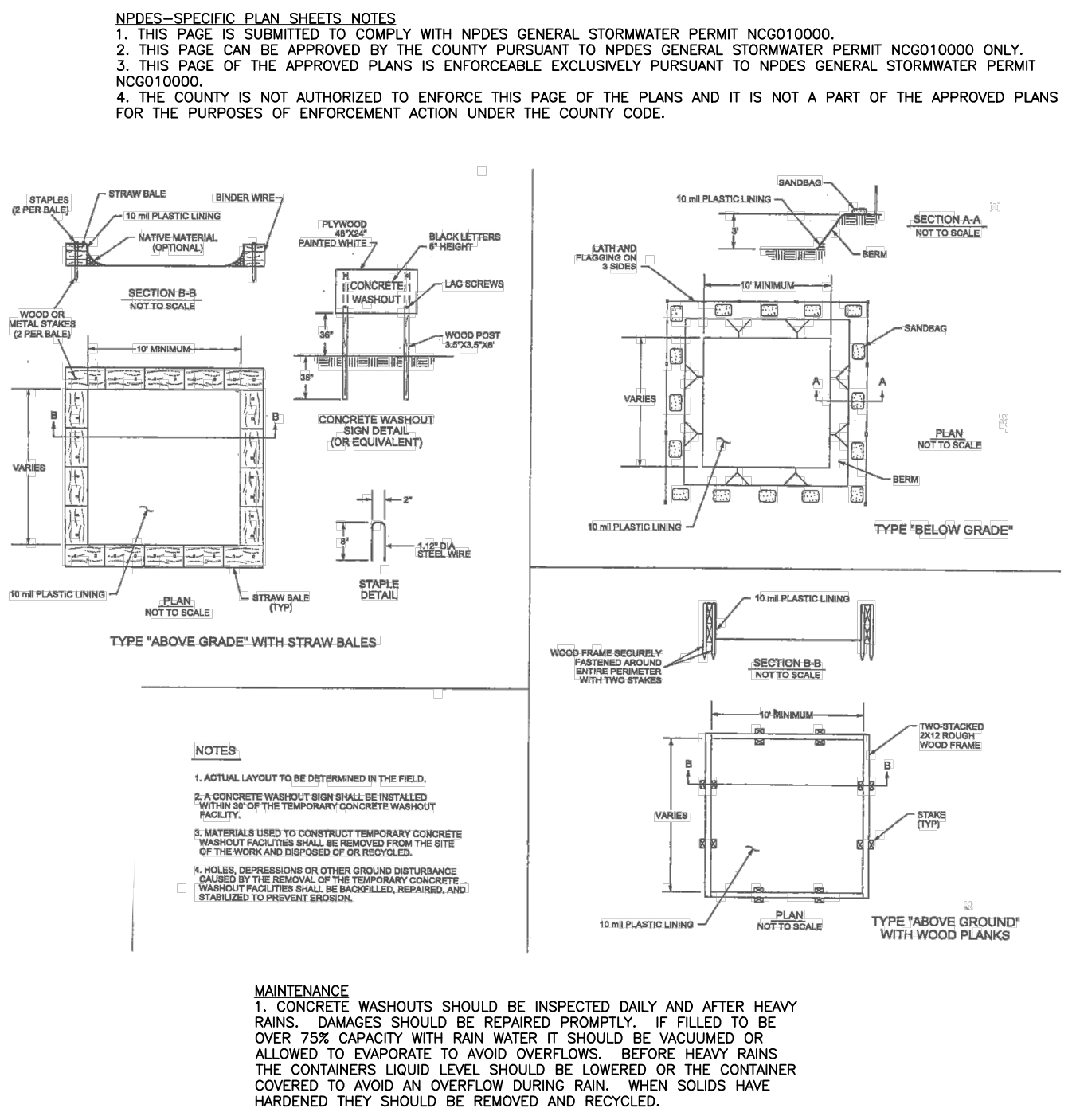
CITY OF WILMINGTON PAVEMENT SECTION
NTS



STANDARD DETAIL

DATE: AUGUST, 2011	CITY OF WILMINGTON ENGINEERING
DRAWN: P. BIZ	WILMINGTON, N.C. 28402
CHECKED: DEC	(910) 341-7937
SCALE: NOT TO SCALE	SD 3-11

- BUILDING WASTE HANDLING**
- NO PAINT OR LIQUID WASTES IN STREAMS OR STORM DRAINS.
 - DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.
 - EARTHEN-MATERIALS STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.
 - CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS OR BUFFERS.
- INSPECTIONS**
- SAME WEEKLY INSPECTION REQUIREMENTS.
 - SAME RAIN GAUGE AND INSPECTIONS AFTER 0.5" RAIN EVENT.
 - INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS".
 - INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.
 - RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST.
 - ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.
- SEWERAGE BASINS**
- OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACE UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.
 - USE ONLY TWO-APPROVED FLOCCULENTS.
- NONES-SPECIFIC PLAN SHEETS**
- THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000.
 - THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
 - THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
 - THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR THE PURPOSES OF ENFORCEMENT ACTION UNDER THE COUNTY CODE.



CONCRETE WASHOUT DETAIL
NTS

NPDES GROUND STABILIZATION CRITERIA

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 1:1, 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)

TEMPORARY SEEDING SPECIFICATION

SEEDING MIXTURE	RATE (lb./acre)
LATE WINTER & EARLY SPRING	120
SUMMER	40
FALL	40

SEEDING DATES

SEEDING MIXTURE	PLANTING PERIODS
LATE WINTER & EARLY SPRING	Mountain - May 15-Aug 15 Plains - May 1-Aug 15 Coastal Plain - Dec 1-Apr 15
SUMMER	Mountain - Aug 15-Dec 15 Coastal Plain and Plains - Aug 15-Dec 30

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 MULCH ANCHORING TOOL. A CORK WITH BLACK SET NET STRAW CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
RESEED/REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MOW IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SPRING-SUMMER PERMANENT GRASSING DETAIL

SEEDING MIXTURE	RATE (lb./acre)
SEEDS:	
PERDADIA BARRIARAS	50
CONDAL ESPERDIA	50
COMMON BERMUDA GRASS	50
TALL FESCUE	50

SEEDING NOTES

- WHERE A SEED MIXTURE IS DESIRED, ONLY SEEDS THAT ARE SUITABLE FOR THE SITE SHOULD BE USED. WHERE IT CANNOT BECOME A SEED, BERMUDA GRASS MAY BE REPLACED WITH 5 1/2/acre CENTIPEDIA GRASS.

SEEDING DATES
April 1 - July 1

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000 LB/ACRE GROUND AGRICULTURE LIMESTONE AND 500 LB/ACRE 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE STRAW OR OTHER EQUIVALENT COVER OF ANOTHER SUITABLE MULCH, ANCHOR BY TACKING WITH ASPHALT, NETTING, OR BY CORKING WITH A CORK WITH BLACK SET NET STRAW CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE THE FOLLOWING APRIL WITH 50 LB/ACRE NITROGEN. MOW AS GROWTH OCCURS. MOW AS GROWTH OCCURS. MOW AS GROWTH OCCURS. MOW AS GROWTH OCCURS.

- SITE WORK NOTES**
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIARIZED WITH EXISTING CONDITIONS BOTH ON AND IMMEDIATELY ADJACENT TO THE SITE.
 - CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
 - GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
 - MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
 - DISPOSAL OF EXCESS MATERIAL: CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXCESS MATERIAL AND DISPOSAL OF IT IN A PROPERLY PERMITTED FACILITY.
 - FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL REPORT.
 - THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
 - THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS OR OR ALONG ROADS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
 - EXISTING SURVEYING PERFORMED BY MARK A. STOCKS, PLS AND SUPPLIED BY THE OWNER.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
 - ALL PVC UTILITY MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER AT FINAL GRADE.
 - 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.
 - NO 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.
 - 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.
 - CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III WITH RUBBER GASKETED JOINTS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 - USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE CHLORINATED RUBBER ALKYD, FS 11-P-11B, TYPE III, FACTORY MIXED, QUICK DRYING, NON BLEEDING, REFLECTIVE MATERIAL MAY BE ADDED AT OWNER'S OPTION FOR NIGHT REFLECTING.
 - DUCTILE IRON SHALL BE CLASS 50.
 - CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
 - FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
 - SEE GEOTECHNICAL REPORT NO. _____ BY _____ FOR ADDITIONAL REQUIREMENTS.

- CONSTRUCTION SEQUENCE**
- NO SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).
 - NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION.
 - INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, CHECK DAMS, ETC. INSTALL ALL SECONDARY EROSION CONTROL MEASURES AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
 - ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET 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.
 - IF APPLICABLE, CONSTRUCT 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.
 - 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.
 - A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
 - MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
 - MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.
- MAINTENANCE PLAN**
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
 - ALL POINTS OF EXCESS WATER 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.
 - IF ANY APPLICABLE POINTS OF EXCESS WATER 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.
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REVISIONS

No./Date	Description	By

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BLUEWATER MOTORSPORTS
WILMINGTON, NORTH CAROLINA

DATE: 05-09-18
DESIGN: PGT
DRAWN: EJW

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SHEET 3 OF 3
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