

| CURVE | RADIUS | ARC L. | CHORD L. | CHORD BEARING | TANGENT |
|-------|---------|---------|----------|---------------|---------|
| CT | 370.00' | 130.45' | 129.77' | N 12°39'35" W | 65.91' |

ATLANTIC DENTAL INVESTORS LLC
 LOT 15
 WILMINGTON MEDICAL PARK
 DEED BOOK 2776 PAGE 165
 MAP BOOK 39 PAGE 383
 ZONED: O&I-1
 USE: MEDICAL OFFICE

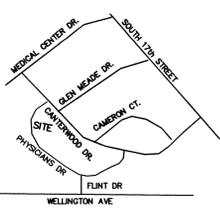
EXISTING
 40' PUBLIC DRAINAGE
 EASEMENT
 MAP BOOK 37 PAGE 78

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
 MAP BOOK 37 PAGE 78
 ZONED: O&I-1
 USE: UNDEVELOPED



LOCATION MAP

(NOT TO SCALE)



SHEET INDEX

| | |
|----|---|
| C1 | EXISTING SITE AND DEMOLITION PLAN |
| C2 | SITE PLAN |
| C3 | GRADING, EROSION CONTROL, AND STORMWATER PLAN |
| C4 | UTILITY PLAN |
| C5 | CIVIL DETAILS |
| C6 | CIVIL DETAILS |
| C7 | CIVIL DETAILS |
| C8 | CIVIL DETAILS |
| C9 | DRAINAGE AREA PLAN |

SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
 UPDATED: July 23, 2015

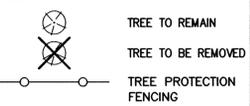
SURVEYOR'S NOTES

1. AREA COMPUTED BY COORDINATE METHOD
2. ALL DISTANCES ARE HORIZONTAL
3. FOR REFERENCE SEE DEED BOOK 5200 PAGE 2797.
4. SURVEYED OCTOBER 16, 2007 & JULY 22, 2015
5. 1.28 ACRES TOTAL AREA
6. THIS PROPERTY IS NOT LOCATED WITHIN 2000' OF AN EXISTING N.C. GRID MONUMENT
7. VERTICAL DATUM NAVD (29)

SURVEYOR'S LEGEND

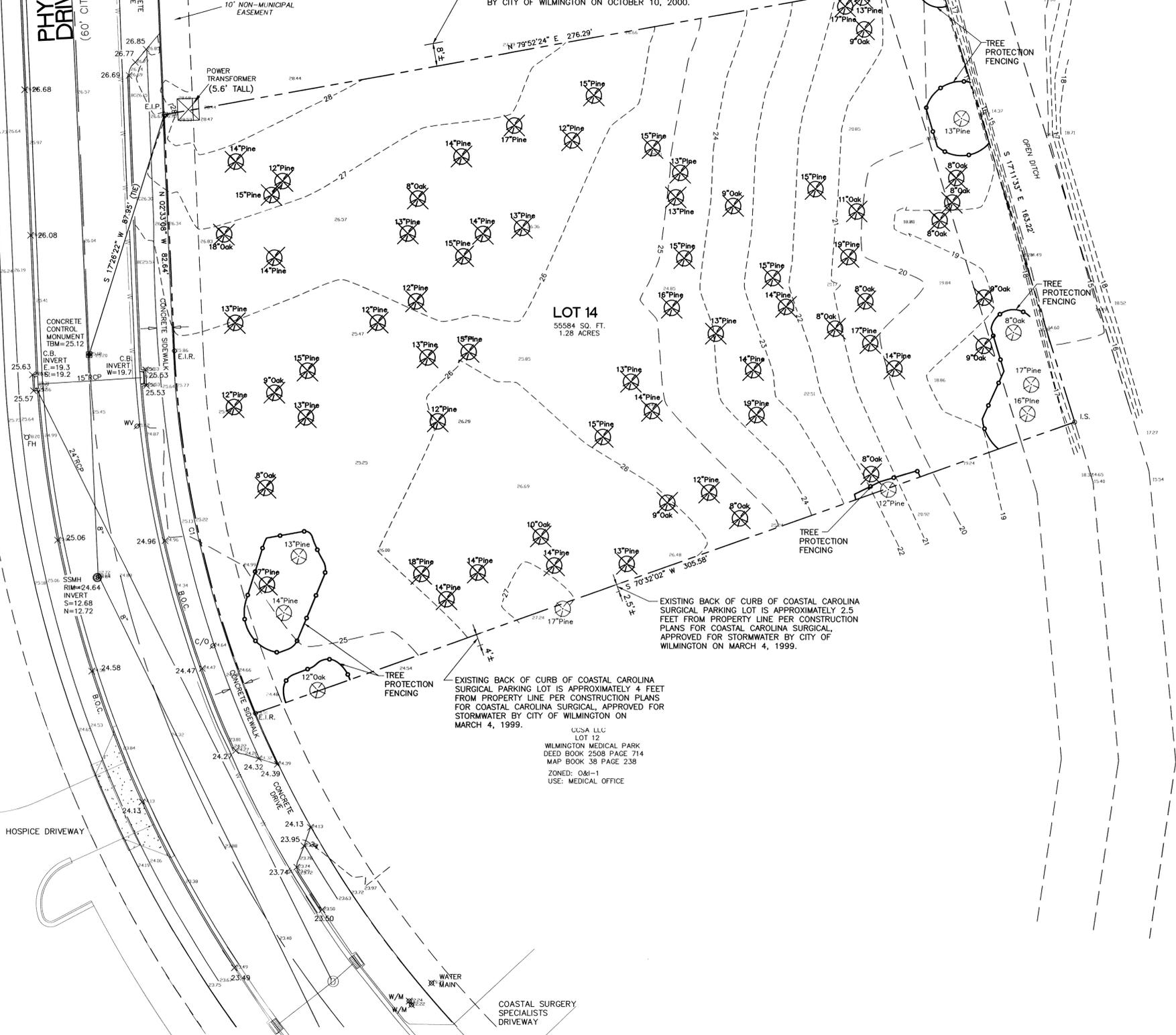
- E.I.P. = EXISTING IRON PIPE
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- F.H. = FIRE HYDRANT
- C/O = CLEAN OUT
- T.B.M. = TEMPORARY BENCH MARK
- W/M = WATER METER
- X = SPOT ELEVATION

LEGEND



SOUTHEASTERN CENTER/MH/DD/SA
 LOT 11
 WILMINGTON MEDICAL PARK
 DEED BOOK 2472 PAGE 389
 MAP BOOK 38 PAGE 171
 ZONED: O&I-1
 USE: UNDEVELOPED

PHYSICIANS DRIVE
 (60' CITY RIGHT-OF-WAY)



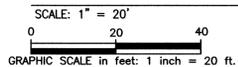
LOT 14
 5584 SQ. FT.
 1.28 ACRES

EXISTING BACK OF CURB OF COASTAL CAROLINA SURGICAL PARKING LOT IS APPROXIMATELY 2.5 FEET FROM PROPERTY LINE PER CONSTRUCTION PLANS FOR COASTAL CAROLINA SURGICAL, APPROVED FOR STORMWATER BY CITY OF WILMINGTON ON MARCH 4, 1999.

EXISTING BACK OF CURB OF COASTAL CAROLINA SURGICAL PARKING LOT IS APPROXIMATELY 4 FEET FROM PROPERTY LINE PER CONSTRUCTION PLANS FOR COASTAL CAROLINA SURGICAL, APPROVED FOR STORMWATER BY CITY OF WILMINGTON ON MARCH 4, 1999.

USA LLC
 LOT 12
 WILMINGTON MEDICAL PARK
 DEED BOOK 2508 PAGE 714
 MAP BOOK 38 PAGE 238
 ZONED: O&I-1
 USE: MEDICAL OFFICE

EXISTING SITE AND DEMOLITION PLAN



Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

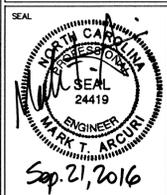
Fire _____

DRAINAGE PLAN APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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

PROJECT: OWNER / DEVELOPER / APPLICANT
CAROLINA ORAL & FACIAL SURGERY CENTER, INC.
 ADDRESS: 1122 MEDICAL CENTER DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PH: 910-762-2618
 FX: 910-763-5173



DESIGNED BY: MARK T. ARCURI
 DRAWN BY: HWL
 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
 DATE: 06-29-16

EXISTING SITE AND DEMOLITION PLAN
 SHEET NUMBER:
C1

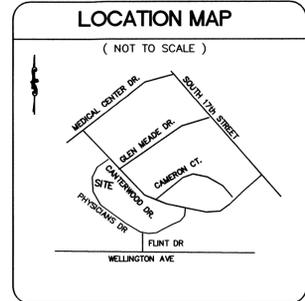
CRISER TROUTMAN TANNER
 CONSULTING ENGINEERS
 3809 PRINCETON BLVD, SUITE 102
 WILMINGTON, NC 28403
 910.397.2929 PH
 910.397.2971 FX
 www.cttengineering.com
 Firm License Number: F-0113



| CURVE | RADIUS | ARC L. | CHORD L. | CHORD BEARING | TANGENT |
|-------|---------|----------|----------|---------------|---------|
| C1 | 370.00' | 1.30.45" | 129.77' | N 12°39'35" W | 65.91' |

ATLANTIC DENTAL INVESTORS LLC
 LOT 15
 WILMINGTON MEDICAL PARK
 DEED BOOK 2776 PAGE 165
 MAP BOOK 39 PAGE 38.3
 ZONED: O&I-1
 USE: MEDICAL OFFICE

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
 MAP BOOK 37 PAGE 78
 ZONED: O&I-1
 USE: UNDEVELOPED



SITE DATA TABLE

| | |
|--|----------------------------|
| PID: | RO6015-001-007-000 |
| ZONING: | O&I-1 |
| BUILDING SETBACKS: | |
| FRONT: | 20 FEET |
| SIDE: | 20 FEET |
| REAR: | 10 FEET |
| PROPERTY SIZE: | 1.28 ACRES (55,584 SF) |
| BUILDING TYPE: | TYPE IIB, SPRINKLED |
| NUMBER OF UNITS: | N/A |
| NUMBER OF BUILDINGS: | 1 |
| BUILDING HEIGHT: | 28 FEET |
| STORIES: | |
| FIRST: | 7,624 SF |
| SECOND: | 1,681 SF |
| TOTAL BUILDING SIZE = | 9,305 SF |
| BUILDING LOT COVERAGE: | 7,624 / 55,584 = 13% |
| IMPERVIOUS (ON SITE): | |
| EXISTING: | 0 SF |
| BUILDING: | 7,624 SF |
| PAVEMENT: | 26,687 SF |
| SIDEWALKS: | 2,361 SF |
| TOTAL WHEN COMPLETE = | 36,722 SF |
| IMPERVIOUS (IN PHYSICIANS DRIVE RIGHT-OF-WAY): | |
| EXISTING TO BE REMOVED: | 150 SF |
| PROPOSED: | 447 SF |
| NET INCREASE = | 297 SF |
| PARKING: | |
| REQUIRED 9,305 SF @ 1/250: | 38 |
| MAX. ALLOWED 9,305 SF @ 1/170: | 55 |
| PROVIDED: | |
| STANDARD: | 43 |
| HANDICAP: | 2 |
| TOTAL WHEN COMPLETE = | 45 |
| BICYCLE PARKING: | |
| REQUIRED: | 5 |
| PROVIDED: | 6 |
| CAMA LAND USE CLASSIFICATION: | URBAN |
| CAMA AEC AND SETBACKS: | NONE |
| HISTORICAL OR ARCHAEOLOGICAL SITES: | NONE |
| CEMETERY: | NONE |
| EXISTING OR PROPOSED THOROUGHFARES: | NONE |
| BIKE ROUTES: | NONE |
| PEDESTRIAN SIDEWALKS: | AS SHOWN |
| TRANSIT FACILITIES: | NONE |
| FLOOD PLAIN DESIGNATION: | ZONE X (NOT IN FLOOD ZONE) |
| CONSERVATION AREAS: | NONE |
| WETLANDS: | NONE |
| RECEIVING WATER BODY: | SILVER STREAM BRANCH |
| WATER BODY CLASSIFICATION: | C, SW |
| SOILS: | MURVILLE FINE SAND |

SURVEYOR'S LEGEND

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- E.I.R. = EXISTING IRON REBAR
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- W/M = WATER METER
- X = SPOT ELEVATION

LEGEND

- CONCRETE
- TREE PROTECTION FENCING

ENGINEER NOTES:

- 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.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS & PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
- ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
- CONTACT ALINA JAKUBCANIN AT 341-7888 TO DISCUSS STREET LIGHTING. A LANDSCAPE PLAN WILL BE NECESSARY TO DETERMINE STREET LIGHT LOCATIONS.
- FACILE WARNING MATS TO BE INSTALLED AT ALL WHEELCHAIR RAMPS.
- CONTRACTOR TO COORDINATE WITH CITY TRAFFIC CONTROL.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OUT OF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- TEMPORARY TRAFFIC MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR.
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.
- UNDERGROUND FIRE LINE 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 910-343-0696 FOR ADDITIONAL INFORMATION.
- ALL FEDERAL, STATE, AND LOCAL PERMITS ARE REQUIRED PRIOR TO FULL CONSTRUCTION RELEASE. THIS INCLUDES BUT IS NOT LIMITED TO: FAA, STATE STORM WATER, SEDIMENTATION AND EROSION CONTROL, STATE UTILITY EXTENSION PERMITS, WETLAND DISTURBANCE PERMITS, CITY STORM WATER, DEMOLITION, TREE PROTECTION PERMITS, ETC.
- THIS PLAN MUST BE APPROVED BY THE MEMBERS OF THE TECHNICAL REVIEW COMMITTEE PRIOR TO CONSTRUCTION. THE ISSUANCE OF THIS PLAN REVISION DOES NOT PRECLUDE THE PERMITTEE FROM COMPLYING WITH ALL OTHER APPLICABLE STATUTES, RULES, REGULATIONS OR ORDINANCES WHICH MAY HAVE JURISDICTION OVER THE PROPOSED ACTIVITY, AND OBTAINING A PERMIT OR APPROVAL PRIOR TO CONSTRUCTION.
- INFRASTRUCTURE IMPROVEMENTS: WHERE REQUIRED TO SATISFY THE CITY'S LEVEL OF SERVICE STANDARDS OR TECHNICAL STANDARDS, APPROVAL OF SITE PLANS SHALL BE CONDITIONED TO INCLUDE REQUIREMENTS THAT STREET AND UTILITY, OR OTHER IMPROVEMENTS BE MADE TO THE SAME EXTENT AS REQUIRED BY ARTICLE 7, SUBDIVISION REGULATIONS. THE APPROVAL MAY REQUIRE PAYMENT IN LIEU OF THE DEDICATION OF PROPERTY AND RIGHTS-OF-WAY OR CONSTRUCTION OF IMPROVEMENTS TO THE SAME EXTENT AS REQUIRED BY THIS CHAPTER.
- CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- HVAC EQUIPMENT WILL BE ON ROOF TOP.
- COASTAL SURGERY SPECIALISTS AND HOSPICE DRIVEWAYS PER CAD FILE FROM ADAMS SOUTHEAST CONSTRUCTION 04-07-2016.
- NO TRAFFIC SIGNAL FACILITIES OR EQUIPMENT EXIST ON OR NEAR THE PROJECT SITE.

SITE PLAN

SCALE: 1" = 20'
 GRAPHIC SCALE in feet: 1 inch = 20 ft.

| REVISIONS | DATE | BY | DESCRIPTION |
|-----------|------|----|-------------|
| | | | |

CRISER TROUTMAN TANNER
 CONSULTING ENGINEERS
 3809 Peachtree Ave., Suite 402
 Wilmington, NC 28403
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 WILMINGTON, NORTH CAROLINA 28403
 PH: 910-762-2618
 FX: 910-763-5173

PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
 ADDRESS: 1305 PHYSICIANS DRIVE
 WILMINGTON, NORTH CAROLINA 28403



DESIGNED BY: MARK T. ARCURI
 DRAWN BY: HWL
 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
 DATE: 06-29-16

SHEET NUMBER:
C2

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

DRAINAGE PLAN APPROVED
 CITY OF WILMINGTON

STORMWATER DISCHARGE PERMIT NOT REQUIRED

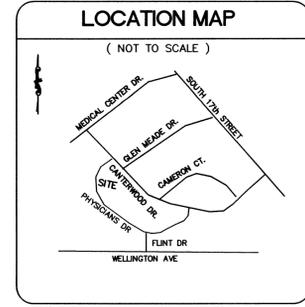
SIGNATURE _____ DATE _____

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

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|-------|---------|---------|----------|---------------|--------|
| CI | 370.00' | 130.45' | 129.77' | N 12°39'35" W | 65.91' |

ATLANTIC DENTAL INVESTORS, LLC
 LOT 15
 WILMINGTON MEDICAL PARK
 DEED BOOK 2776 PAGE 165
 MAP BOOK 39 PAGE 383
 ZONED: O&I-1
 USE: MEDICAL OFFICE

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
 MAP BOOK 37 PAGE 78
 ZONED: O&I-1
 USE: UNDEVELOPED



SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
 UPDATED: July 23, 2015

- SURVEYOR'S LEGEND**
- E.I.P. = EXISTING IRON PIPE
 - E.I.R. = EXISTING IRON REBAR
 - E.C.M. = EXISTING CONCRETE MONUMENT
 - C.P. = COMPUTED POINT
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 - F.H. = FIRE HYDRANT
 - C/O = CLEAN OUT
 - T.B.M. = TEMPORARY BENCH MARK
 - W/M = WATER METER
 - X = SPOT ELEVATION

- LEGEND**
- 54- EXIST. CONTOURS
 - 54— PROPOSED CONTOURS
 - x 25.10 EXIST. SPOT ELEVATION
 - x 55.8 PROPOSED SPOT ELEVATION (FE—FINISHED ELEVATION, UNLESS NOTED OTHERWISE)
 - RW RETAINING WALL
 - T TOP OF RETAINING WALL
 - B BOTTOM OF RETAINING WALL
 - TW TOP OF WALK
 - BW BOTTOM OF WALK
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - FE FINISHED ELEVATION
 - HP HIGH POINT
 - INV INVERT
 - SD STORM DRAIN
 - RD STORM DRAIN
 - F.F.E. FINISH FLOOR ELEVATION
 - RCP REINFORCED CONCRETE PIPE
 - TG TOP OF GRATE
 - C.O. CLEAN OUT
 - DI DROP INLET
 - JB JUNCTION BOX
 - DIRECTION OF SLOPE
 - - - LIMIT OF DISTURBANCE
 - TEMPORARY INLET PROTECTION
 - TEMPORARY SILT FENCE
 - TREE PROTECTION FENCING

PHYSICIANS DRIVE
 (60' CITY RIGHT-OF-WAY)

TEMPORARY CONSTRUCTION ENTRANCE

BEGIN SILT FENCE

SOUTHEASTERN CENTER/MH/DD/SA
 LOT 11
 WILMINGTON MEDICAL PARK
 DEED BOOK 2472 PAGE 389
 MAP BOOK 38 PAGE 171
 ZONED: O&I-1
 USE: UNDEVELOPED

HOSPICE DRIVEWAY

CAROLINAS ORAL & FACIAL SURGERY CENTER BUILDING
 F.F.E. 26.5

LOT 14
 14,994 SQ. FT.
 28 ACRES

CCSA LLC
 LOT 12
 WILMINGTON MEDICAL PARK
 DEED BOOK 2508 PAGE 714
 MAP BOOK 38 PAGE 238
 ZONED: O&I-1
 USE: MEDICAL OFFICE

COASTAL SURGERY SPECIALISTS DRIVEWAY

GRADING, EROSION CONTROL, AND STORMWATER PLAN

SCALE: 1" = 20'
 GRAPHIC SCALE in feet: 1 inch = 20 ft.
 DISTURBED AREA = 1.3 ACRES

Approved Construction Plan

Name: _____ Date: _____

Planning _____

Traffic _____

Fire _____

DRAINAGE PLAN APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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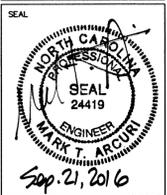
| NO. | DATE | BY | REVISIONS |
|-----|----------|-----|------------------------|
| 1 | 06-21-16 | MTA | PER CITY OF WILMINGTON |

CRISER TROUTMAN TANNER
 CONSULTING ENGINEERS
 3809 Peachtree Ave., Suite 102
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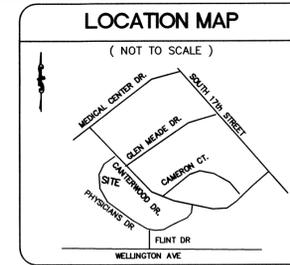
DESIGNED BY: MARK T. ARCURI
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 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
 DATE: 06-30-16
GRADING, EROSION CONTROL, AND STORMWATER PLAN
 SHEET NUMBER:
03

| CURVE | RADIUS | ARC L. | CHORD L. | CHORD BEARING | TANGENT |
|-------|---------|---------|----------|---------------|---------|
| C1 | 370.00' | 130.45' | 129.77' | N 12°39'35" W | 65.91' |

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 LOT 15
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EXISTING
 40' PUBLIC DRAINAGE
 EASEMENT
 MAP BOOK 37 PAGE 78

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
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SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
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 - C/O = CLEAN OUT
 - T.B.M. = TEMPORARY BENCH MARK
 - W/M = WATER METER
 - X = SPOT ELEVATION

- LEGEND**
- SSMH ● SANITARY SEWER MANHOLE
 - SS ○ SANITARY SEWER
 - C.O. ○ CLEAN OUT
 - SSCO ○ SANITARY SEWER CLEAN OUT
 - W ○ POTABLE WATER
 - IW ○ IRRIGATION WATER
 - TS&V ○ TAPPING SLEEVE & VALVE
 - BFP ○ BACK FLOW PREVENTER
 - IN ○ INVERT
 - WV ○ WATER VALVE

- CONSTRUCTION SEQUENCE:**
1. REQUEST PRECONSTRUCTION MEETING WITH CFPUA.
 2. UPON COMPLETION OF PRECONSTRUCTION MEETING AND SATISFACTION OF SUBSEQUENT REQUESTS / REQUIREMENTS OF CFPUA, COORDINATE WITH CFPUA REGARDING PROCEDURE FOR INSTALLATION OF WATER AND SEWER LINES.
 3. IF APPLICABLE, COORDINATE WITH CFPUA REGARDING SCHEDULE AND PROCEDURE BY WHICH CFPUA WILL ISOLATE WATER SYSTEM VIA THEIR EXISTING VALVES.
 4. COORDINATE WITH CFPUA INSPECTION REQUIREMENTS FOR CFPUA INSPECTORS.
 5. UPON FULL AGREEMENT AND APPROVAL WITH CFPUA, PERFORM WORK.
 6. CONTACT CFPUA DAILY DURING CFPUA UTILITY WORK REGARDING INSPECTIONS AND OTHER CFPUA REQUIREMENTS.
 7. COORDINATE TESTING REQUIREMENTS WITH CFPUA, INCLUDING BUT NOT LIMITED TO, FLUSHING, BAC-T, PRESSURE, ETC.
 8. UPON FULL AGREEMENT AND APPROVAL WITH CFPUA, PERFORM TESTING.

- ENGINEER NOTES:**
1. CONTACT PIEDMONT NATURAL GAS (PNG) TWO WEEKS PRIOR TO DESIRED GAS SERVICE INSTALLATION. CALL PAUL GONKA AT 910-512-2841.
 2. BEFORE PERFORMING ANY WORK, OWNER REQUIRED TO OBTAIN ANY AND ALL PERMITS REQUIRED.
 3. CALL CFPUA BEFORE BEGINNING ANY WORK. CALL BERNICE JOHNSON @ 910-332-6620.
 4. CALL NC 811 BEFORE DIGGING.
 5. CONTRACTOR REQUIRED TO OBTAIN UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION. CALL 910-343-0696.
 6. INVERT OF EXISTING SEWER CLEAN OUT IS 7.53 FEET BELOW RIM OF SSMH-10 AS SHOWN ON PLAN BY DAWSON ENGINEERING, TITLED PHYSICIANS DRIVE, PHASE 1, WILMINGTON MEDICAL PARK, SEALED FEB. 28, 1992.

- CFPUA SEWER NOTES:**
1. SEWER GUARDS REQUIRED IN MANHOLES. STAINLESS STEEL SEWER GUARDS ARE REQUIRED FOR SANITARY SEWER MANHOLES LOCATED IN TRAFFIC AREAS.
 2. SEWER SERVICE SHALL BE INSTALLED PERPENDICULAR TO MAINS AND TERMINATE AT THE PROPERTY/EASEMENT LINE PER STANDARD DETAIL.
 3. ALL SERVICES CONNECTING TO DUCTILE IRON PIPE (DIP) MAINS SHALL BE CONSTRUCTED OF CLASS 50 DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
 4. A MINIMUM OF 10' UTILITY EASEMENT IS REQUIRED ALONG THE FRONTAGE OF ALL LOTS.
 5. NO FLEXIBLE COUPLINGS ARE PERMITTED.

Approved Construction Plan

Name _____ Date _____

Planning _____

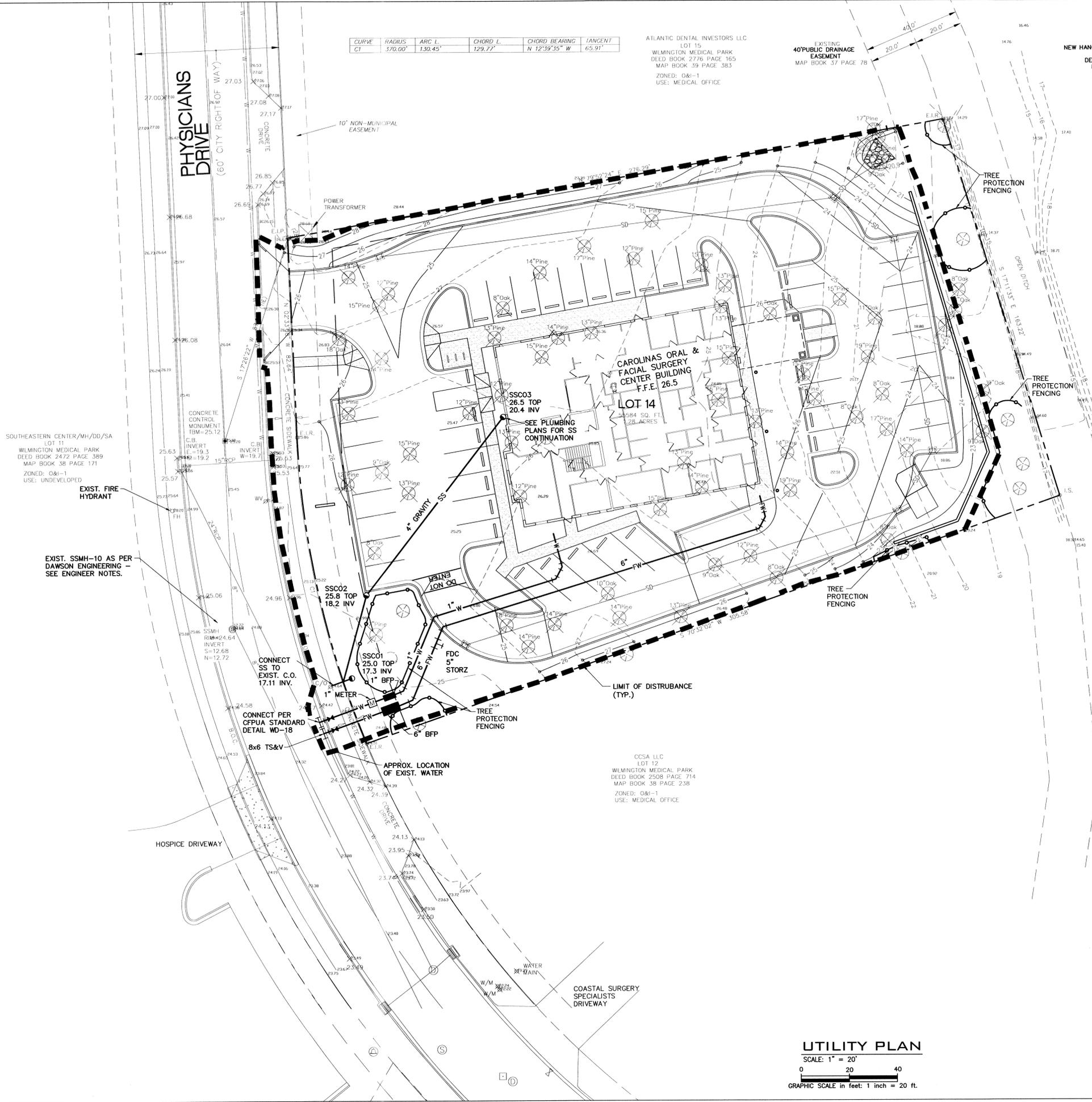
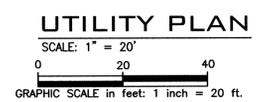
Traffic _____

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DRAINAGE PLAN
 APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE
 PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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REVISIONS

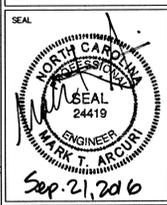
| | | |
|---------|-----|--------------------|
| DATE | BY | DESCRIPTION |
| 9-21-16 | MTA | CITY OF WILMINGTON |

CRISER TROUTMAN TANNER
 CONSULTING ENGINEERS
 3803 Peachtree Ave., Suite 102
 Wilmington, NC 28403
 910.397.2929 Ph.
 910.397.2971 Fax
 www.ctteengineering.com
 Firm License Number: F-0133



OWNER / DEVELOPER / APPLICANT
CAROLINAS ORAL & FACIAL SURGERY CENTER, INC.
 ADDRESS:
 1122 MEDICAL CENTER DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PH: 910-762-2618
 FX: 910-763-5173

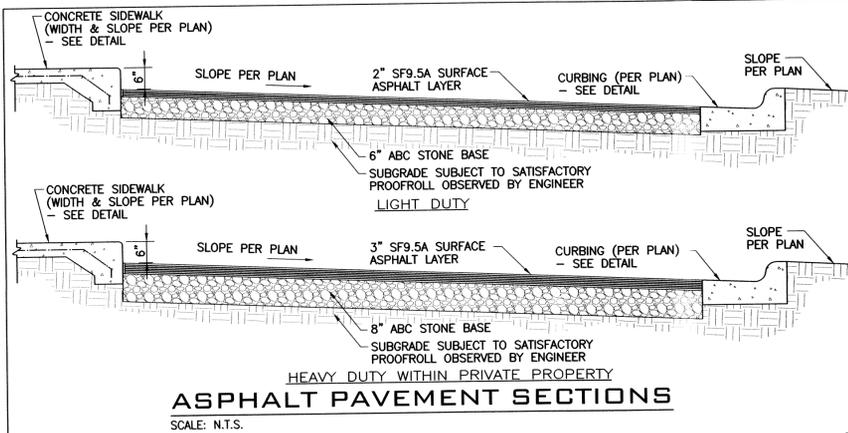
PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
 ADDRESS:
 1305 PHYSICIANS DRIVE
 WILMINGTON, NORTH CAROLINA 28403



DESIGNED BY: MARK T. ARCURI

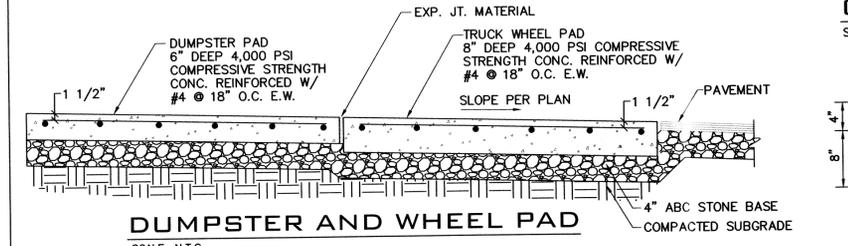
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| DRAWN BY: | HWL |
| QUALITY CONTROL: | MTA |
| SCALE: | NOTED |
| FILE NUMBER: | 7517.00 |
| DATE: | 06-14-16 |

UTILITY PLAN
 SHEET NUMBER:
C4



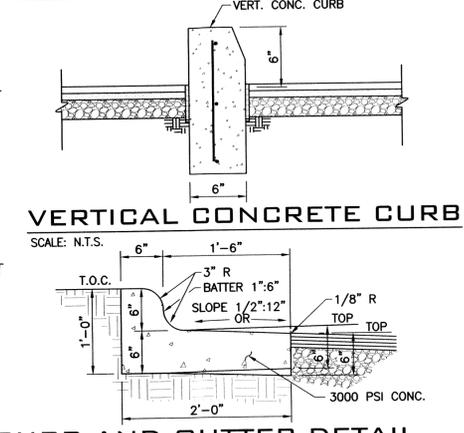
ASPHALT PAVEMENT SECTIONS

SCALE: N.T.S.



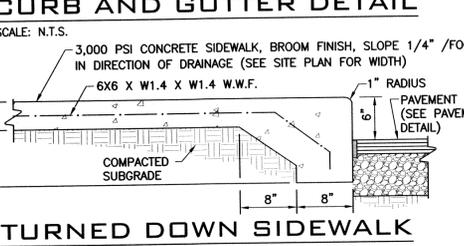
DUMPSTER AND WHEEL PAD

SCALE: N.T.S.



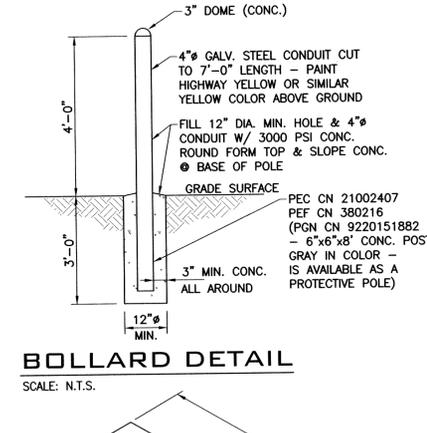
VERTICAL CONCRETE CURB

SCALE: N.T.S.



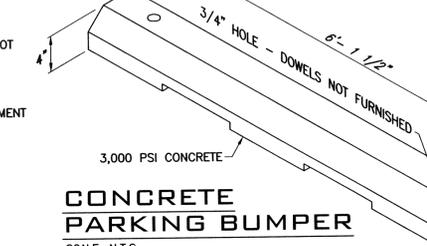
CURB AND GUTTER DETAIL

SCALE: N.T.S.



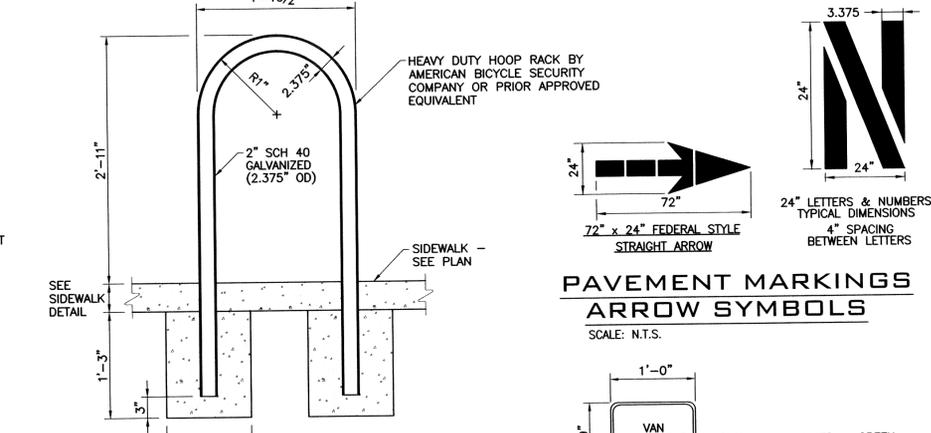
BOLLARD DETAIL

SCALE: N.T.S.



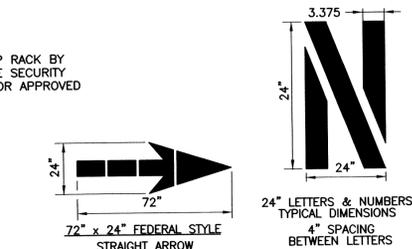
CONCRETE PARKING BUMPER

SCALE: N.T.S.



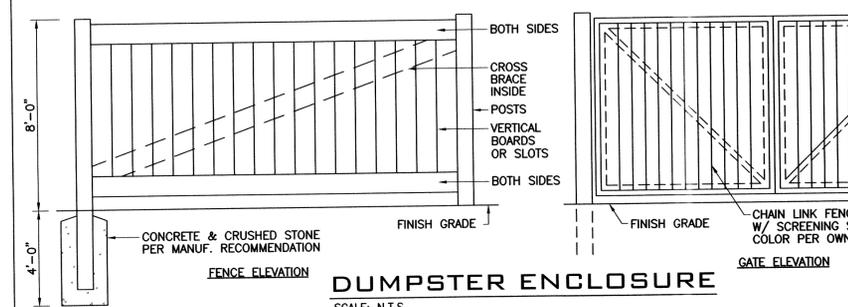
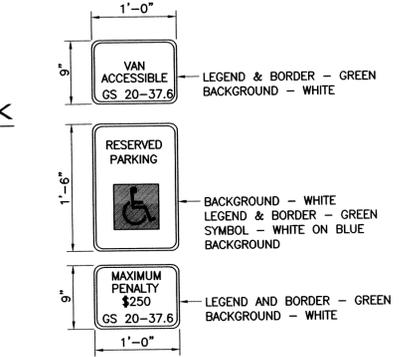
HEAVY DUTY HOOP BIKE RACK

SCALE: N.T.S.



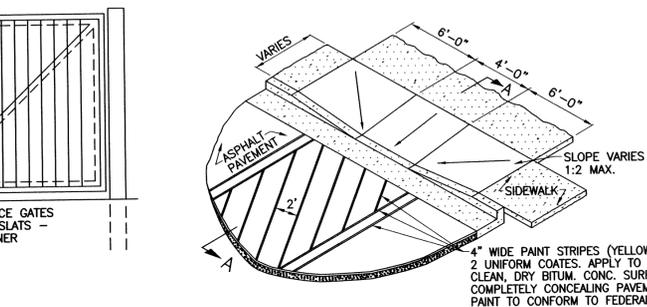
PAVEMENT MARKINGS ARROW SYMBOLS

SCALE: N.T.S.



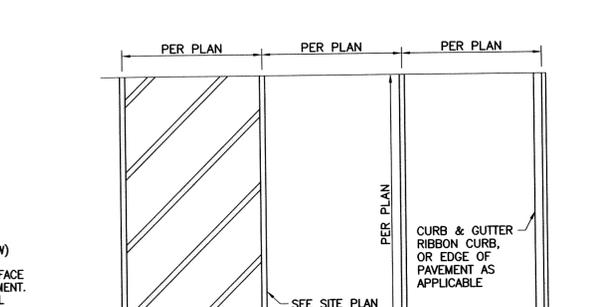
DUMPSTER ENCLOSURE

SCALE: N.T.S.



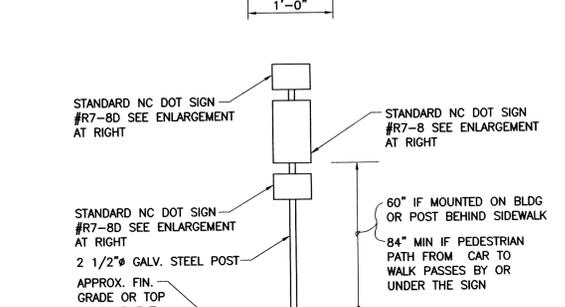
WHEELCHAIR RAMP DETAILS

SCALE: N.T.S.



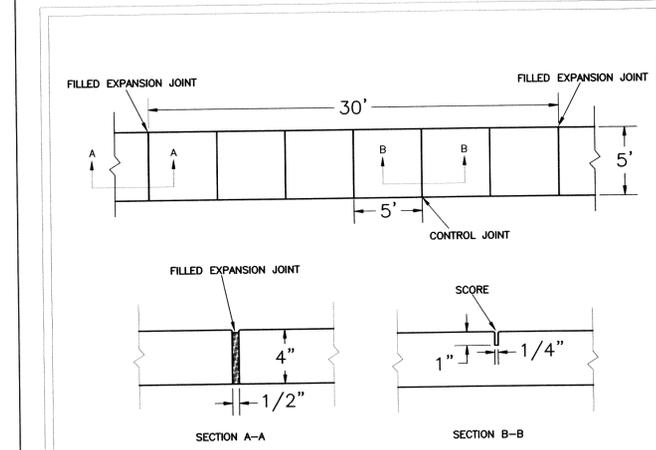
PAINT STRIPE DETAIL

SCALE: N.T.S.



HANDICAPPED SIGN

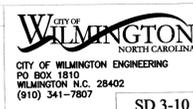
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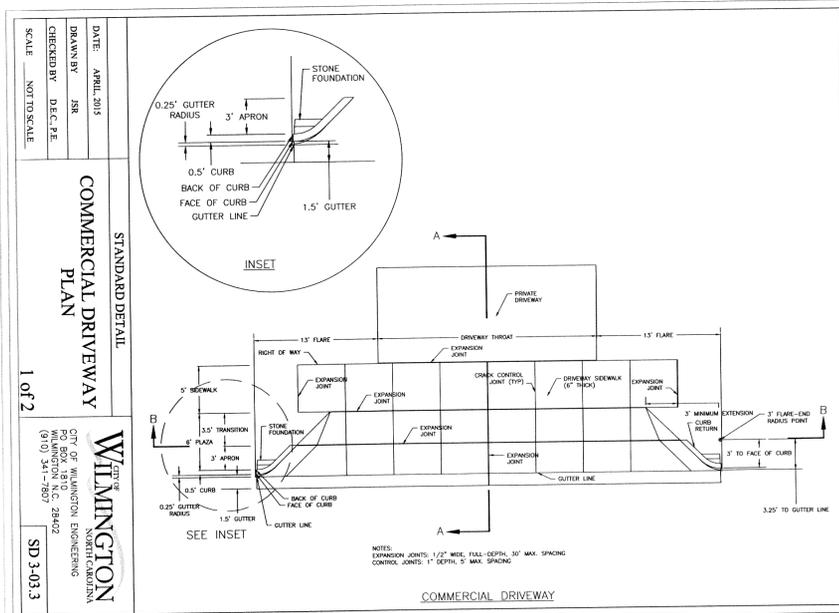
STANDARD DETAIL

SIDEWALK

DATE: OCTOBER, 2010
DRAWN: PBJSR
CHECKED: DEC
SCALE: NOT TO SCALE

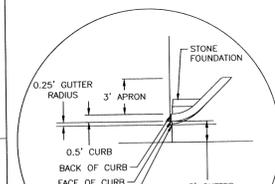


SD 3-10

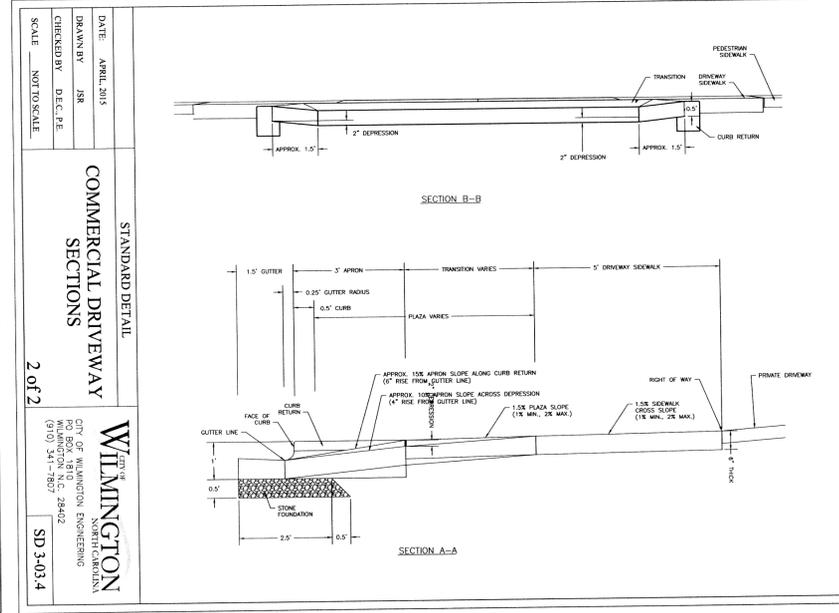


COMMERCIAL DRIVEWAY SECTIONS

DATE: APRIL, 2015
DRAWN BY: JBR
CHECKED BY: DEC, PJE
SCALE: NOT TO SCALE



COMMERCIAL DRIVEWAY



COMMERCIAL DRIVEWAY SECTIONS

DATE: APRIL, 2015
DRAWN BY: JBR
CHECKED BY: DEC, PJE
SCALE: NOT TO SCALE

Approved Construction Plan
Name _____ Date _____

Planning _____
Traffic _____
Fire _____

DRAINAGE PLAN APPROVED
CITY OF WILMINGTON
STORMWATER DISCHARGE PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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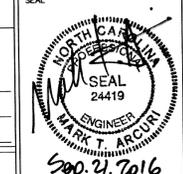
REVISIONS
DATE BY
1. 08/14/10 PJE

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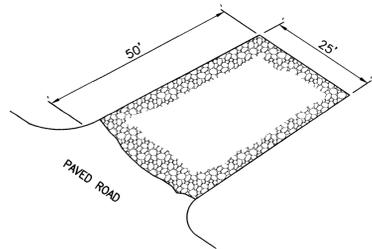
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DESIGNED BY: MARK T. ARCURI
DRAWN BY: HWL
QUALITY CONTROL: MTA
SCALE: NOTED
FILE NUMBER: 7517.00
DATE: 06-01-16

CIVIL DETAILS
SHEET NUMBER:
C5



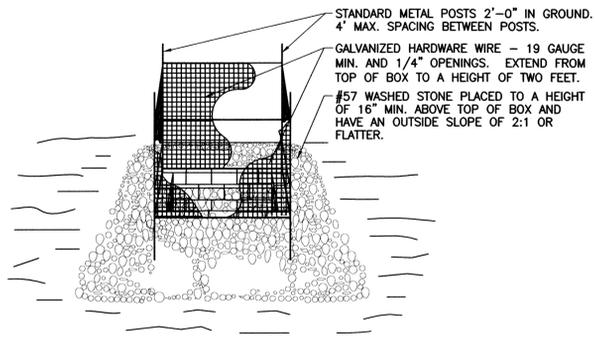
STONE PAD AT SITE EXITS TO REMOVE MUD FROM TIRES

NOTES:

- 1.) STONE SHALL BE 2-3 INCH WASHED STONE (6" THICK).
- 2.) THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 3.) WHEN NECESSARY WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER-COURSE.
- 4.) ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

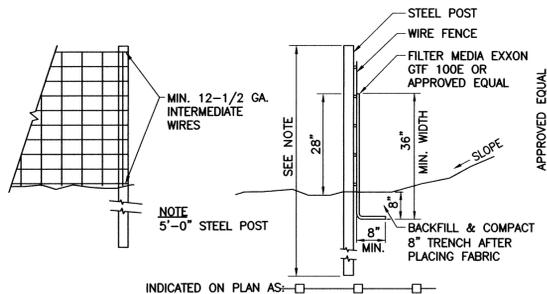
TEMPORARY CONSTRUCTION ENTRANCE

SCALE: N.T.S.



INLET SEDIMENT CONTROL

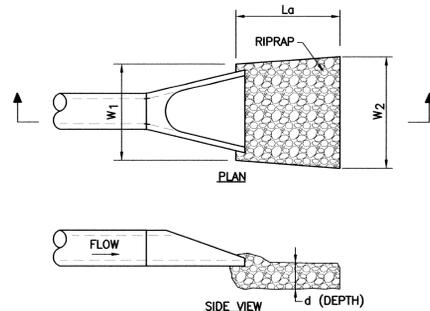
SCALE: N.T.S.



- NOTES:**
- 1.) WIRE FENCE SHALL BE A MIN. OF 32" IN WIDTH AND SHALL HAVE A MIN. OF SIX LINE WIRES WITH 12" STAY SPACING. BOTTOM PORTION OF WIRE FENCE SHALL BE BURIED 6".
 - 2.) FILTER FABRIC SHALL MEET OR EXCEED 150 LBS. GRAB TENSILE (ASTM-D-1682), 180 PSI. BURST (ASTM-D-2263) AND 70 ON COE E.O.S. TEST.
 - 3.) STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER TYPE.
 - 4.) STEEL POSTS FOR SILT FENCE SHALL BE NO WIDER THAN 8' APART O.C. WITH WIRE BACKING.
 - 5.) CONTRACTOR TO FIELD LOCATE AS NECESSARY TO CONTROL SURFACE EROSION.

TEMPORARY SILT FENCE

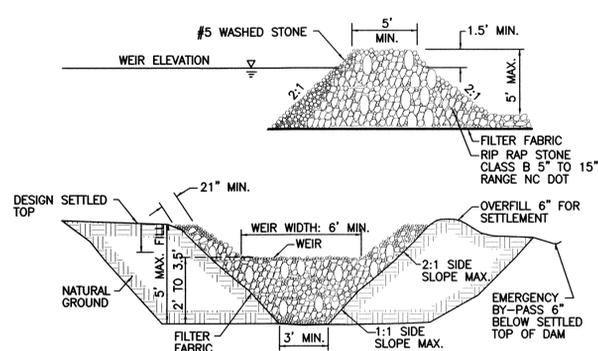
SCALE: N.T.S.



| OUTLET LOCATION | RIP RAP DIMENSIONS | | | | Average Rip Rap Size (in) | d (Depth) (ft) |
|-----------------|--------------------|---------|---------|---------|---------------------------|----------------|
| | PIPE Size (in) | W1 (ft) | W2 (ft) | Lo (ft) | | |
| OUTLET | 18 | 5 | 12 | 10 | 6 | 9 |

RIP RAP APRON DETAIL

SCALE: N.T.S.

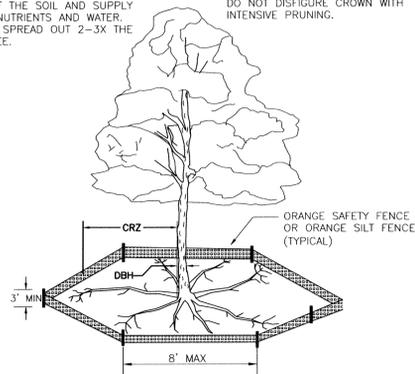


SEDIMENT TRAP SECTIONS

SCALE: N.T.S.

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.

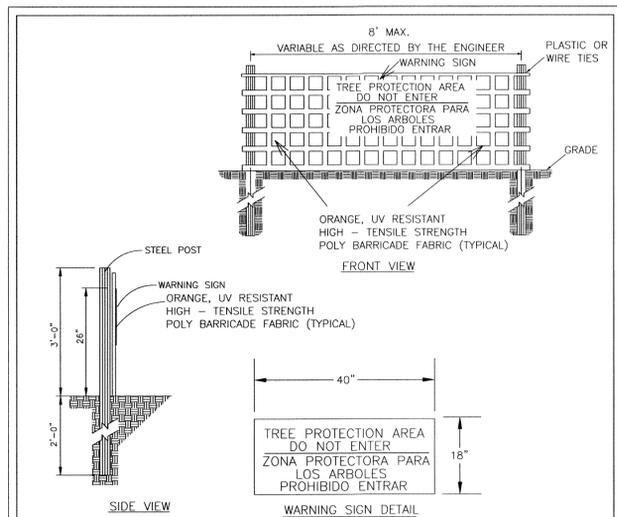


- NOTES:**
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 3. IF CONSTRUCTION OCCURS 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.

| | | | |
|-----------------------|--|---|----------|
| DATE: JAN, 2015 | | <p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p> | SD 15-09 |
| DRAWN BY: JSR | | | |
| CHECKED BY: RDG, P.E. | | | |
| SCALE: NOT TO SCALE | | | |

TREE PROTECTION DURING CONSTRUCTION

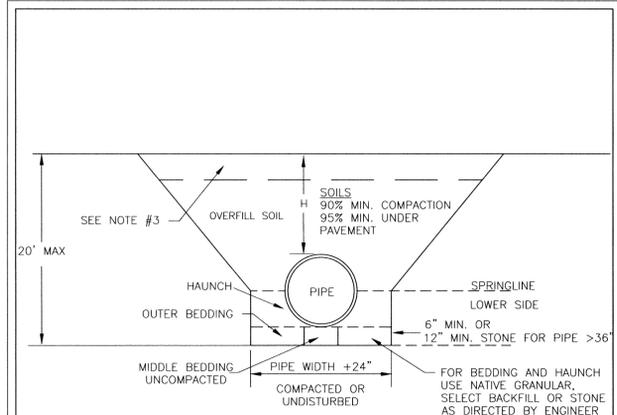
SHEET 1 of 2



| | | | |
|-----------------------|--|---|----------|
| DATE: JAN, 2015 | | <p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p> | SD 15-09 |
| DRAWN BY: JSR | | | |
| CHECKED BY: RDG, P.E. | | | |
| SCALE: NOT TO SCALE | | | |

TREE PROTECTION DURING CONSTRUCTION

SHEET 2 of 2



- NOTES:**
1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR PIPE INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
 2. CONTRACTOR TO INSTALL BEDDING AND PIPE BEFORE INSTALLING HAUNCH AND THEN OVERFILL. SOILS SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED TO MIN. % DENSITY AS DETERMINED BY THE STANDARD PROCTOR ASTM D-698-A METHOD.
 3. WHERE IN PAVEMENT, CONTRACTOR SHALL ADHERE TO CITY STREET CUT POLICY AND SD 1-04 OR SD 1-05 FOR ROAD AND PAVEMENT REBUILD.
 4. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMP (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
 5. THIS DETAIL IS REPRESENTATIVE AND PIPE TRENCH DESIGN IS SUBJECT TO SPECIFIC SOIL CATEGORY (I, II, III), AND INSTALLATION TYPE (1, 2, 3, 4), AS DIRECTED BY THE ENGINEER AND SITE CONDITIONS.

| | | | |
|---------------------|--|--|---------|
| DATE: MAY, 2013 | | <p>CITY OF WILMINGTON ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON, NC 28412 (910) 341-7807</p> | SD 1-07 |
| DRAWN: JSR | | | |
| CHECKED: BDR, P.E. | | | |
| SCALE: NOT TO SCALE | | | |

PIPE TRENCH TYPICAL

- CONSTRUCTION SEQUENCE:**
1. REQUEST PRE-CONSTRUCTION CONFERENCE WITH COUNTY EROSION INSPECTOR.
 2. INSTALL GRAVEL CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE.
 3. INSTALL STORM DRAIN LINES AND INLET PROTECTION IN THE SAME EFFORT TO PREVENT SEDIMENT FROM ENTERING PIPES.
 4. COMMENCE GRADING OPERATIONS FOR PARKING AND CURBS AND GUTTERS.
 5. STABILIZE ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
 6. REMOVE TEMPORARY CONTROL DEVICES (SILT FENCE, ETC.) ONCE PERMANENT VEGETATIVE COVER IS ESTABLISHED.

- GRADING NOTES:**
1. INITIATE CONSTRUCTION SEQUENCE BEFORE BEGINNING CLEARING AND GRADING OPERATIONS.
 2. CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
 3. STRIP TOPSOIL TO FULL AREAS TO BE GRADED AND STOCKPILE OR REMOVE FROM SITE.
 4. COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY.
 5. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO STEEPER THAN 3:1 SLOPES.
 6. PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
 7. OPERATOR SHALL VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

- EROSION CONTROL:**
1. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION AND IS SUBJECT TO A FINE.
 2. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. ALL GRADING SLOPES MUST BE SEEDDED AND MULCHED WITHIN 21 CALENDAR DAYS OF COMPLETION OF GRADING. ALL FLAT AREAS ARE TO BE SEEDDED AND MULCHED WITHIN 15 WORKING DAYS.
 3. ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY FIELD INSPECTOR, ENGINEER, AND OWNER.
 4. IF ACTIVE CONSTRUCTION CEASES IN ANY SLOPED AREA FOR MORE THAN 21 CALENDAR DAYS OR 15 WORKING DAYS IN FLAT AREAS, ALL DISTURBED AREAS MUST BE SEEDDED, MULCHED, AND TACKED, UNLESS WRITTEN APPROVAL IS GRANTED BY THE EROSION CONTROL INSPECTOR.
 5. IF ACTIVE CONSTRUCTION CEASES FOR 21 CALENDAR DAYS DURING GRADING OPERATIONS AND WHILE TEMPORARY DIVERSION DITCHES ARE REQUIRED, ALL DISTURBED AREAS, INCLUDING THE DITCHES MUST BE SEEDDED, MULCHED, & TACKED, UNLESS WRITTEN APPROVAL IS GRANTED BY THE EROSION CONTROL INSPECTOR.

| GROUND STABILIZATION REQUIREMENTS | | |
|--|---------------|--|
| Site Area Description | Stabilization | Timeframe Exceptions |
| Perimeter dikes, swales, ditches, and slopes | 7 days | None |
| High Quality Water (HQW) Zones | 7 days | None |
| Slopes steeper than 3:1 | 7 days | If slopes are 10' or less in length & are not steeper than 2:1, 14 days are allowed. |
| Slopes 3:1 or flatter | 14 days | 7 days for slopes greater than 50' in length. |
| All other areas with slopes flatter than 4:1 | 14 days | None, except for perimeters and HQW Zones. |

- 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. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
 2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE AND INLET PROTECTION FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
 3. ALL SEEDDED AREAS WILL BE FERTILIZED, RESEEDDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
 4. CONSTRUCTION ENTRANCE TO BE CLEANED WHEN SEDIMENT ACCUMULATIONS ARE VISIBLE OR SEDIMENT IS DEPOSITED ON THE ASPHALT AND STONE WILL BE PERIODICALLY TOP DRESSED WITH 2 INCHES OF #4 STONE TO MAINTAIN 6" DEPTH.

- SITE NOTES:**
1. THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH FIELD CONSTRUCTION CONDITIONS.
 2. BORROW MATERIAL: ALL BORROWED MATERIAL MUST COME FROM A LEGALLY OPERATED MINE OR OTHER SOURCE APPROVED BY THE STATE.
 3. CLEARED, GRUBBED, STRIPPED, OR EXCAVATED SPOIL SHALL BE REMOVED FROM THE SITE OR USED IN LANDSCAPED ISLANDS.
- SEEDING SPECIFICATIONS:**
- LIME: APPLY 100 POUNDS PER 1,000 SQUARE FEET
- FERTILIZER: APPLY 20 POUNDS 8-8-8 PER 1,000 SQUARE FEET
- SEED (NON-NCOT RIGHT OF WAY): PER ACRE
- | | |
|--------------------|---------|
| NOVEMBER-MARCH | 20 LBS. |
| BERMUDA (UNHULLED) | 50 LBS. |
| WINTER RYE (GRAIN) | 80 LBS. |
| FESCUE | 80 LBS. |
| MARCH-NOVEMBER | 30 LBS. |
| BERMUDA (HULLED) | 80 LBS. |
| FESCUE | 80 LBS. |
- MULCH: APPLY 1-1/2 TONS/ACRE WHEAT STRAW (OR APPROVED EQUAL) ON ALL SEEDDED AREAS.
- TACK: ALL SLOPES WITH STRAW MULCH EXCEEDING 3:1 TO HAVE ASPHALT TACK APPLIED AT THE RATE OF 225 GALLONS/ACRE.
- AFTER SOIL PREPARATION AND SEEDING, INSTALL JUTE MATTING OR EQUAL ON ALL DISTURBED AREAS.
 - MAINTAIN SEEDDED AREAS UNTIL MINIMUM GROWTH IS ESTABLISHED AND/OR FOR CONTRACT TIME.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

DRAINAGE PLAN APPROVED

CITY OF WILMINGTON

STORMWATER DISCHARGE PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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| REVISIONS | DATE | DESCRIPTION |
| | | |
| | | |

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DESIGNED BY: MARK T. ARCURI

DRAWN BY: HWL

QUALITY CONTROL: MTA

SCALE: NOTED

FILE NUMBER: 7517.00

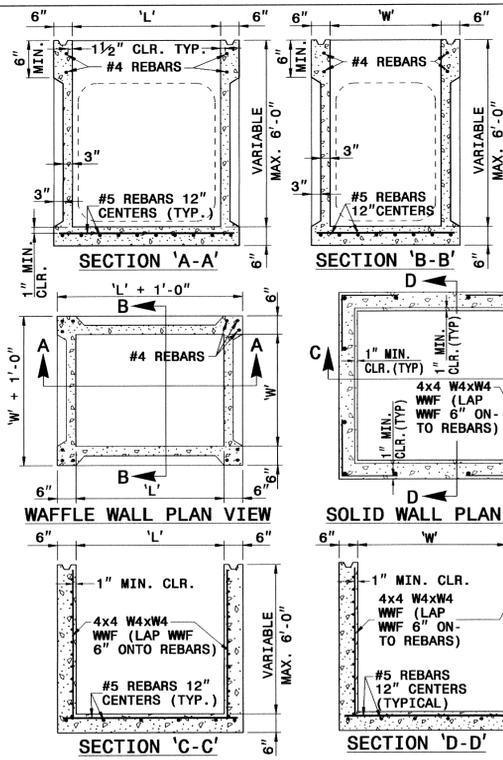
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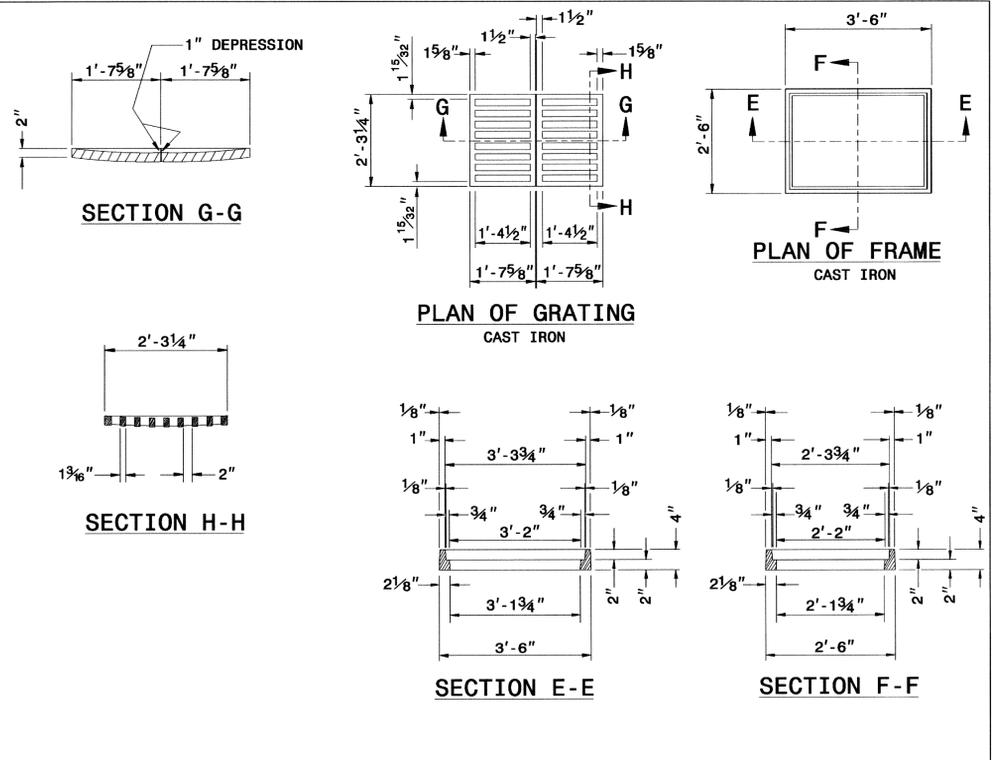
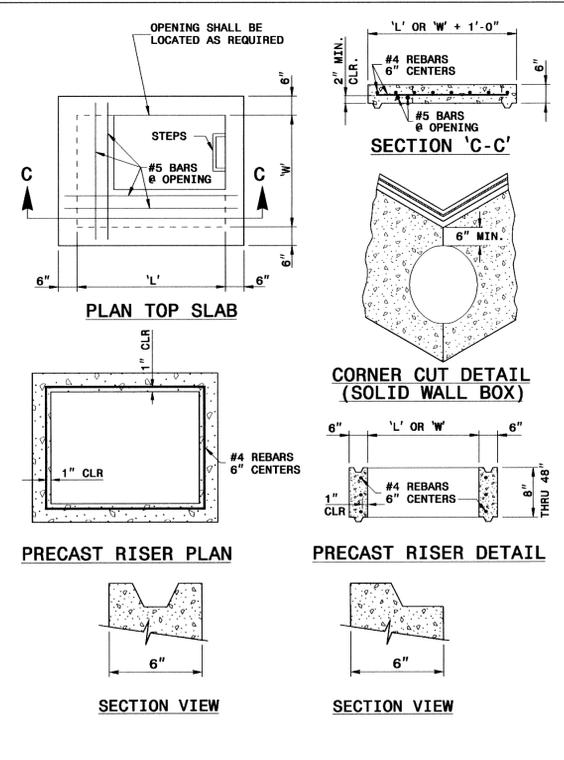
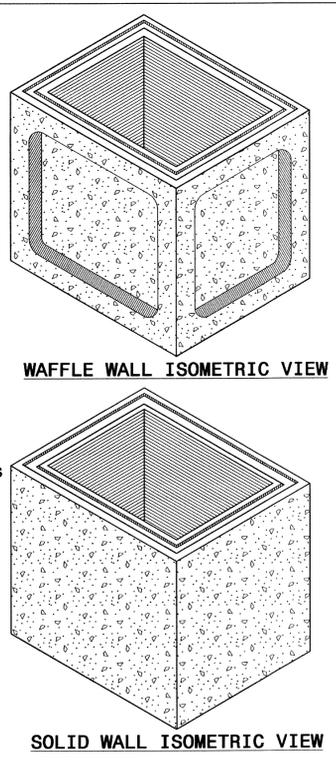
50p 21, 2016

CIVIL DETAILS

SHEET NUMBER: **C6**



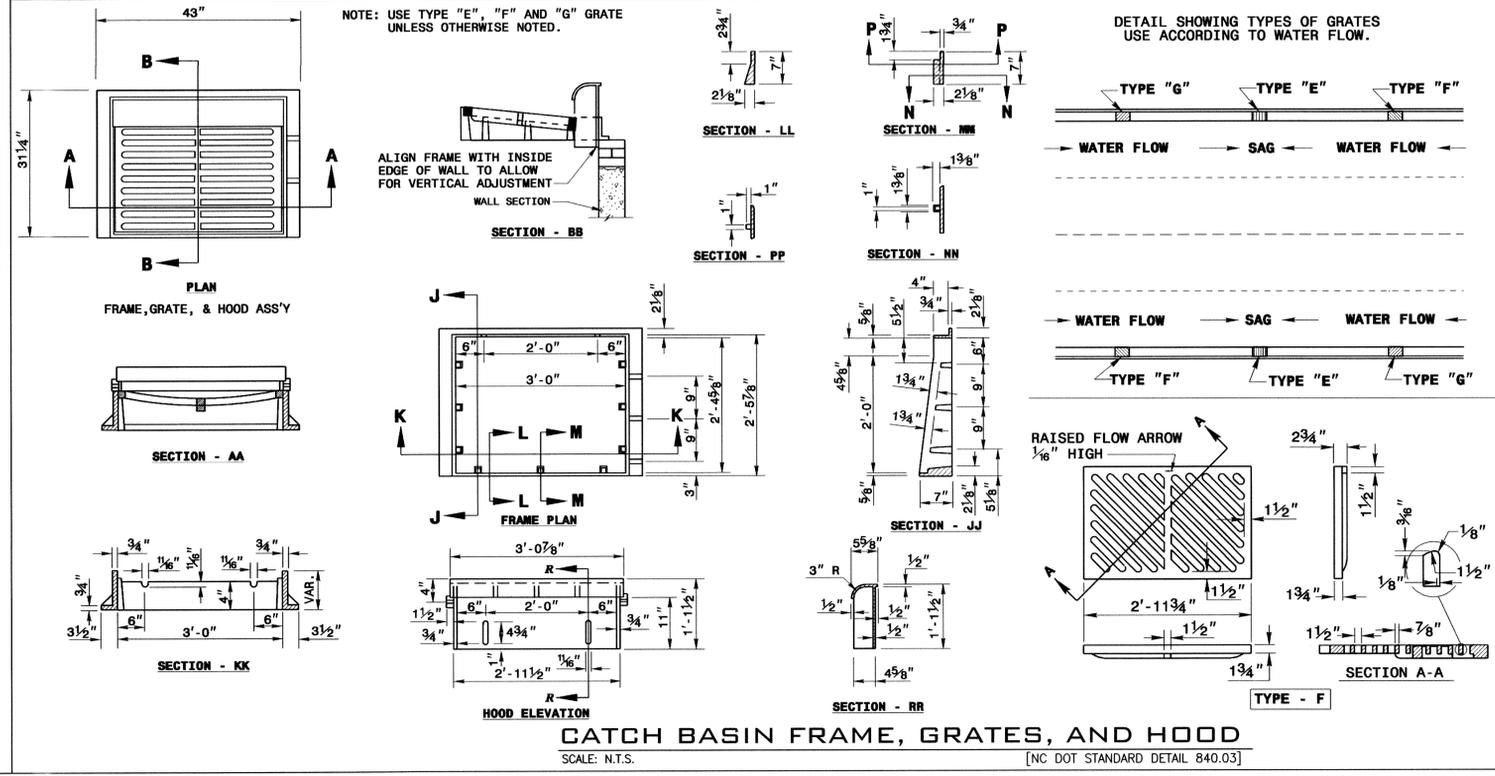
THE PATTERN OF THE KNOCK-OUT PANELS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.



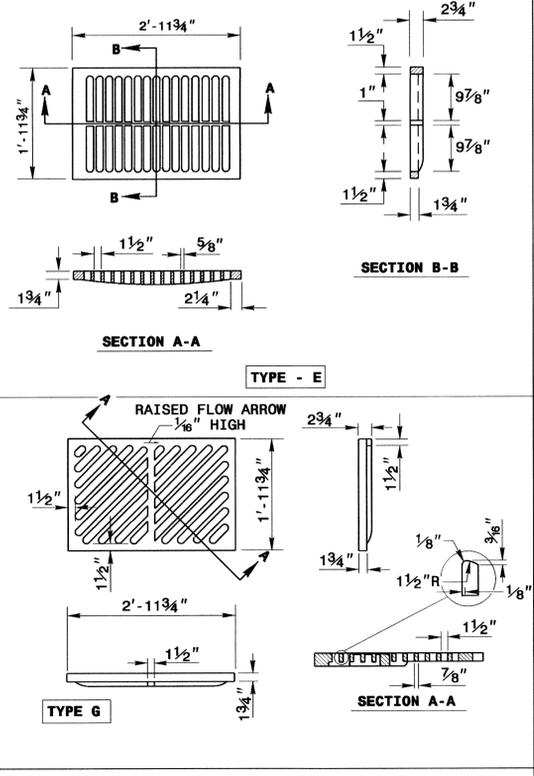
- GENERAL NOTES:**
- * THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.31, 840.32 AND 840.41.
 - * USE 4000 PSI CONCRETE.
 - * PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
 - * LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 10'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
 - * PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 - * CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
 - * ALL ELEMENTS PRECAST TO MEET ASTM C913.
 - * FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
 - * PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS AS DIRECTED BY THE ENGINEER.
 - * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
 - * SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
 - * LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 5'-0" X 5'-0".
 - * THE OUTSIDE PIPE DIAMETER PLUS 2" OR THE OPENING REQUIRED FOR FRAME AND GRATE IS THE MINIMUM STRUCTURE SIZE WHICHEVER IS GREATER.
 - * USE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.

PRECAST DRAINAGE STRUCTURES (SOLID AND WAFFLE WALL)
SCALE: N.T.S. [NC DOT STANDARD DETAIL 840.45]

DROP INLET FRAME AND GRATES
SCALE: N.T.S. (12" THRU 30" PIPE) [NC DOT STANDARD DETAIL 840.16 - 1 OF 1]



CATCH BASIN FRAME, GRATES, AND HOOD
SCALE: N.T.S. [NC DOT STANDARD DETAIL 840.03]



NOTES:

- STRUCTURES:**
1. PRECAST STRUCTURES SHALL MEET NCDOT 840.45 OR PRIOR APPROVED EQUIVALENT.
 2. BRICK BUILT CATCH BASINS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.01, OR PRIOR APPROVED EQUIVALENT.
 3. CONCRETE CATCH BASINS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.02, OR PRIOR APPROVED EQUIVALENT.
 4. CONCRETE DROP INLETS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.14, OR PRIOR APPROVED EQUIVALENT.
 5. BRICK BUILT DROP INLETS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.15, OR PRIOR APPROVED EQUIVALENT.

CASTINGS:

1. CATCH BASIN CASTINGS SHALL BE NCDOT 840.03, OR PRIOR APPROVED EQUIVALENT.
2. DROP INLET CASTINGS SHALL BE NCDOT 840.16, OR PRIOR APPROVED EQUIVALENT.
3. STORM DRAIN MANHOLE CASTINGS SHALL BE NCDOT 840.54, OR PRIOR APPROVED EQUIVALENT.

OTHER:

1. ORIENTATION OF STORM DRAIN INLETS ON PLAN ARE FOR THE GRATE AND/OR CASTINGS. MINIMUM STRUCTURE SIZE IS 2' X 2' PLAN DIMENSION. CONTRACTOR SHALL PROVIDE BOXES LARGER THAN MINIMUM SIZE, ORIENT THE BOX/STRUCTURE, AND/OR PROVIDE TRANSITION TOPS AS NECESSARY TO ACCEPT THE PIPE SIZES AND TO ACHIEVE THE PIPE ALIGNMENTS AS SHOWN ON THE PLAN. PIPES SHALL NOT CONNECT AT BOX CORNERS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. SUMPS SHALL BE ZERO INCHES UNLESS OTHERWISE SHOWN. THERE SHALL BE NO MAN STEPS UNLESS OTHERWISE SHOWN.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

DRAINAGE PLAN APPROVED

CITY OF WILMINGTON

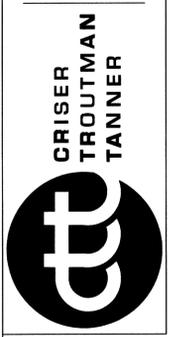
STORMWATER DISCHARGE PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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

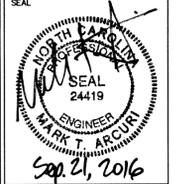
| NO. | REVISIONS |
|-----|--|
| 1 | DATE: 09-21-16 BY: PER. CITY OF WILMINGTON |

CRISER TROUTMAN TANNER CONSULTING ENGINEERS
3809 Peachtree Ave., Suite 102
Wilmington, NC 28403
910.397.2929 Ph.
910.397.2971 Fax
www.ctteengineering.com
Firm License Number: FQ133



OWNER / DEVELOPER / APPLICANT
CAROLINAS ORAL & FACIAL SURGERY CENTER, INC.
ADDRESS: 1122 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA 28403
PH: 910-762-2618
FX: 910-763-5173

PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
ADDRESS: 1305 PHYSICIANS DRIVE
WILMINGTON, NORTH CAROLINA 28403

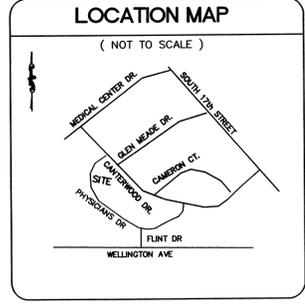


| |
|-----------------------------|
| DESIGNED BY: MARK T. ARCURI |
| DRAWN BY: HWL |
| QUALITY CONTROL: MTA |
| SCALE: NOTED |
| FILE NUMBER: 7517.00 |
| DATE: 06-01-16 |
| CIVIL DETAILS |
| SHEET NUMBER: C7 |

| CURVE | RADIUS | ARC L. | CHORD L. | CHORD BEARING | TANGENT |
|-------|---------|---------|----------|---------------|---------|
| CT | 170.00' | 130.45' | 129.77' | N 12°39'35" W | 6°49'1" |

ATLANTIC DENTAL INVESTORS LLC
 LOT 15
 WILMINGTON MEDICAL PARK
 DEED BOOK 2776 PAGE 165
 MAP BOOK 39 PAGE 383
 ZONED: O&I-1
 USE: MEDICAL OFFICE

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
 MAP BOOK 37 PAGE 78
 ZONED: O&I-1
 USE: UNDEVELOPED



| DATE | NO. | REVISIONS |
|---------|-----|------------------|
| 8-21-16 | 1 | ISSUE FOR PERMIT |

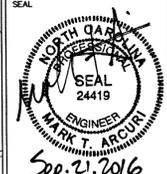
CRISER TROUTMAN TANNER
 CONSULTING ENGINEERS
 3809 Peachtree Ave., Suite 102
 Wilmington, NC 28403
 910.387.2929 Ph.
 910.387.2971 Fax
 www.ctte.com
 Firm License Number: F0113

CRISER TROUTMAN TANNER



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 PH: 910-762-2618
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PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
 ADDRESS:
 1305 PHYSICIANS DRIVE
 WILMINGTON, NORTH CAROLINA 28403



DESIGNED BY: MARK T. ARCURI
 DRAWN BY: HWL
 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
 DATE: 06-01-16

DRAINAGE AREA PLAN
 SHEET NUMBER:
C9

| Drainage Device | Drainage Area (SF) | Drainage Area (AC) | Buildings (SF) | Pavement (SF) | Sidewalks (SF) | Total Impervious Area (SF) | Resultant C | Impervious Percentage |
|-----------------|--------------------|--------------------|----------------|---------------|----------------|----------------------------|-------------|-----------------------|
| DI1 | 11,002 | 0.25 | 2,918 | 5,595 | 398 | 8,911 | 0.80 | 81% |
| DI2 | 1,426 | 0.03 | 0 | 1,296 | 41 | 1,337 | 0.90 | 94% |
| DI3 | 3,621 | 0.08 | 0 | 3,358 | 138 | 3,496 | 0.92 | 97% |
| DI4 | 6,589 | 0.15 | 1,662 | 3,947 | 253 | 5,862 | 0.86 | 89% |
| DI5 | 11,129 | 0.26 | 1,952 | 6,460 | 577 | 8,989 | 0.80 | 81% |
| DI6 | 11,287 | 0.26 | 1,092 | 6,031 | 954 | 8,077 | 0.72 | 72% |
| Totals | 45,054 | 1.03 | 7,624 | 26,687 | 2,361 | 36,672 | 0.80 | 81% |

SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
 UPDATED: July 23, 2015

- SURVEYOR'S LEGEND**
- E.I.P. = EXISTING IRON PIPE
 - E.I.R. = EXISTING IRON REBAR
 - E.C.M. = EXISTING CONCRETE MONUMENT
 - C.P. = COMPUTED POINT
 - W.V. = WATER VALVE
 - S.S.M.H. = SANITARY SEWER MAN HOLE
 - F.H. = FIRE HYDRANT
 - C/O = CLEAN OUT
 - T.B.M. = TEMPORARY BENCH MARK
 - W/M = WATER METER
 - X = SPOT ELEVATION



SOUTHEASTERN CENTER/MH/DD/SA
 LOT 11
 WILMINGTON MEDICAL PARK
 DEED BOOK 2472 PAGE 389
 MAP BOOK 38 PAGE 171
 ZONED: O&I-1
 USE: UNDEVELOPED

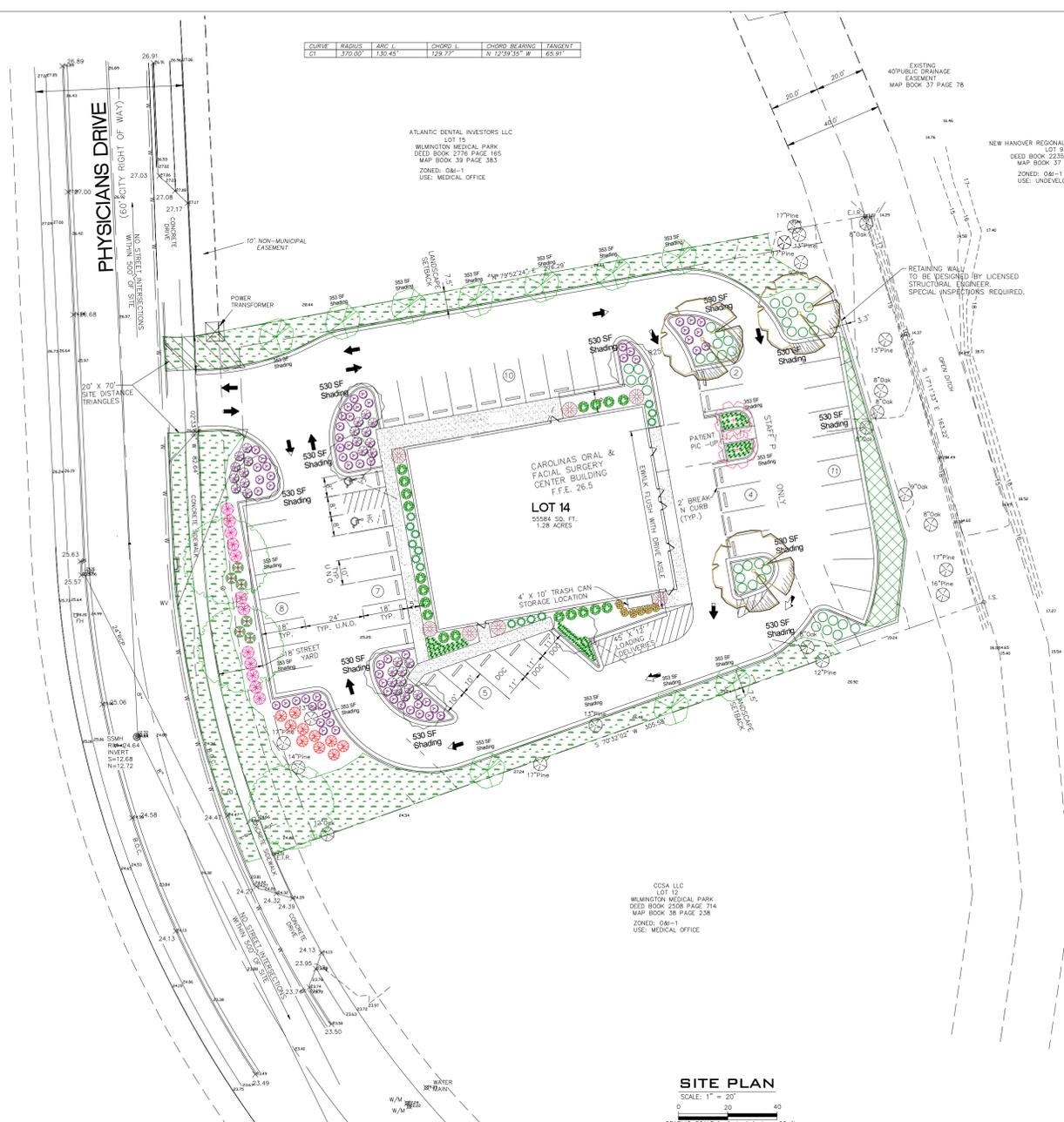
CCSA LLC
 LOT 12
 WILMINGTON MEDICAL PARK
 DEED BOOK 2508 PAGE 714
 MAP BOOK 38 PAGE 238
 ZONED: O&I-1
 USE: MEDICAL OFFICE

DRAINAGE AREA PLAN
 SCALE: 1" = 20'
 GRAPHIC SCALE in feet: 1 inch = 20 ft.

| Approved Construction Plan | |
|----------------------------|------|
| Name | Date |
| Planning | |
| Traffic | |
| Fire | |

DRAINAGE PLAN APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE PERMIT NOT REQUIRED
 SIGNATURE _____ DATE _____

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



LEGEND

| COMMON NAME | SIZE | QTY |
|-------------------------------------|----------|-----|
| FLOWER, PERENNIAL | | |
| LIRIOPE, EMERALD GODDESS | 1 GAL. | 81 |
| SHRUB, EVERGREEN BROADLEAF | | |
| ABELIA, 'ROSE CREEK' | 3 GAL. | 28 |
| AZALEA, INDICA | 3 GAL. | 10 |
| CAMELLIA SASANQUA YULETIDE | 7 GAL. | 7 |
| HOLLY, NEEDLEPOINT | 7 GAL. | 12 |
| HOLLY, YAUPON, DWARF | 3 GAL. | 39 |
| LIGUSTRUM RECURVE | 7 GAL. | 6 |
| NANDINA GULFSTREAM | 3 GAL. | 14 |
| PITTOSPORUM, JAPANESE | 3 GAL. | 19 |
| YEW, JAPANESE UPRIGHT | 7 GAL. | 6 |
| SHRUB, EVERGREEN CONIFER | | |
| JUNIPER, PARSONI | 3 GAL. | 63 |
| TREE, DECIDUOUS | | |
| CRAPEMYRTLE TUSCARORA | 25" CAL. | 2 |
| ELM, LACEBARK | 25" CAL. | 3 |
| HORNBEAM, EUROPEAN | 3" CAL. | 10 |
| MAPLE, TRIDENT | 25" CAL. | 7 |
| OAK, SAWTOOTH | 3" CAL. | 3 |
| 1050SY CENTIPEDE SOD | | |
| 225 ASIATIC JASMINE 4" POTS, 2'O.C. | | |

3' Ht.
3' Ht.

Parking Lot Shading Req's: 29,048 x 30% = 8,715 SF
Shading Provided = 10,418 SF

Foundation Planting:
North side: 100'L x 28'Ht. x .12 = 336sf
580sf Provided
East side: Not Req'd.

West side: 76'L x 28'Ht. x .12 = 255sf
380sf Provided
South side: 88'L x 28'Ht. x .12 = 296sf
300sf Provided

Physicians Dr. Primary Streetyard:
190 x 18'w = 3420sf Req'd. landscape
1 Canopy Tree per 600sf = 6 trees
6 shrubs per 600sf = 34 shrubs

per Creative Code: 1710sf
3
17

Provided: 1710sf
3 New, 1 Ex.
18

Using the creative standard of the code 50% of the streetyards shall be planted as called out.

128 ACRES x 15 TREES 2" CAL.
REQ'D./ ACRE = 19 TREES REQ'D.
20+ PROVIDED

The areas within the triangular sight distance shall be maintained free of all obstructions between 30" and 10'.
Prior to any clearing, grading or construction activity, tree protection fencing will be installed around protected trees or groves of trees. No construction workers, tools, materials or vehicles are permitted within the tree protection fencing.

A rain/freeze sensor shall be used if there is an irrigation system.
All planted and retained living material required to meet the provisions of the City of Wilmington Land Development Code, shall be perpetually protected and maintained to professionally accepted standards by joint and several responsibility of the owner, tenant and respective agents of the property on which the material is located.

Approved Construction Plan
Name: _____ Date: _____

Planning: _____
Traffic: _____
Fire: _____

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

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DRAINAGE PLAN
APPROVED
CITY OF WILMINGTON
STORMWATER DISCHARGE PERMIT NOT REQUIRED
SIGNATURE: _____ DATE: _____

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WILMINGTON, NORTH CAROLINA 28403
PH: 910-762-2618
FX: 910-763-5173

70CY BROWN MULCH IN ALL NEWLY PLANTED AREAS.
40 BALES LONGLEAF PINESTRAW IN ALL NATURAL AREAS.

jim@freemanlandscape.com 910-796-1166

Revision #: 1
Date: 9/21/2016

Scale:
1" = 30'

Landscape Plan:
Carolinas Oral & Facial Surgery

Landscape Design by: **James Freeman - NCLC# 71**
Freeman Landscape, Inc.