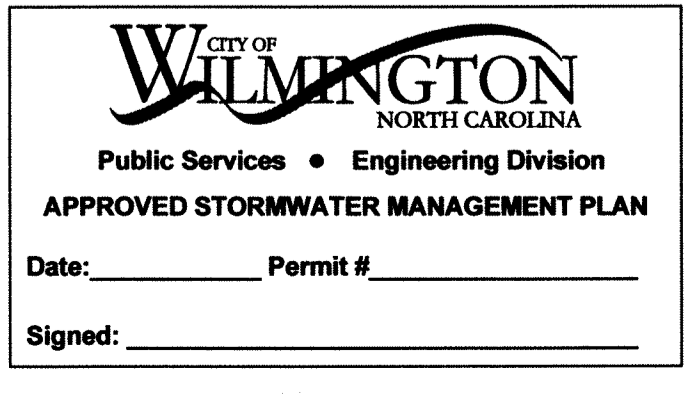


SITE INVENTORY DATA

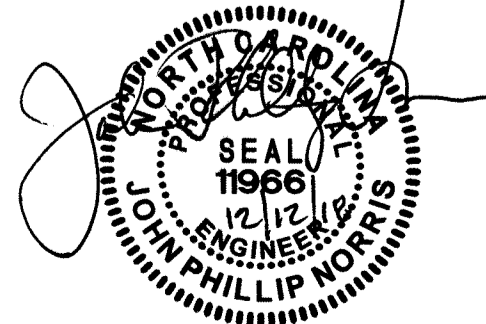
PLAN PREPARER: ISOM HAM & NORRIS & TUNSTALL CONSULTING ENGINEERS.
 APPLICANT NAME: J. PHILLIP NORRIS, P.E.
 SITE ADDRESS: 501 NUTT STREET
 PROPERTY OWNER: WILMINGTON HOSPITALITY ASSOCIATES, LLC
 DEVELOPER: WILMINGTON HOSPITALITY ASSOCIATES, LLC
 PARCEL #: R04716-001-006-000
 ZONING: CBD
 ADJACENT PROPERTY OWNER: CAPE FEAR COMMUNITY COLLEGE - CBD, GREATER WILMINGTON CHAMBER OF COMMERCE - CBD
 SEE PLAN
 TOPOGRAPHIC DATA: SEE PLAN
 100 YR FLOOD ELEVATION: N/A
 LOCATION OF WATER FEATURES: N/A
 SOILS TYPE: URBAN DEVELOPED
 CANA DATA: N/A
 CANA CLASSIFICATION: URBAN
 CONSERVATION RESOURCES: N/A
 RECOGNIZED SITE: NO RECOGNITION
 CEMETERIES: N/A
 FORESTED AREAS: N/A
 WETLANDS: N/A
 PROTECTED SPECIES: N/A
 TRANSPORTATION DATA: SEE PLAN



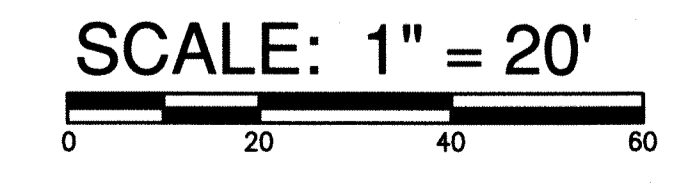
Approved Construction Plan

| Name | Date |
|----------|------|
| Planning | |
| Traffic | |
| Fire | |

NOTES:
 1. SITE PLAN IS BASED ON NEW SURVEY DATA AND BUILDING LAYOUT PROVIDED BY OTHERS.
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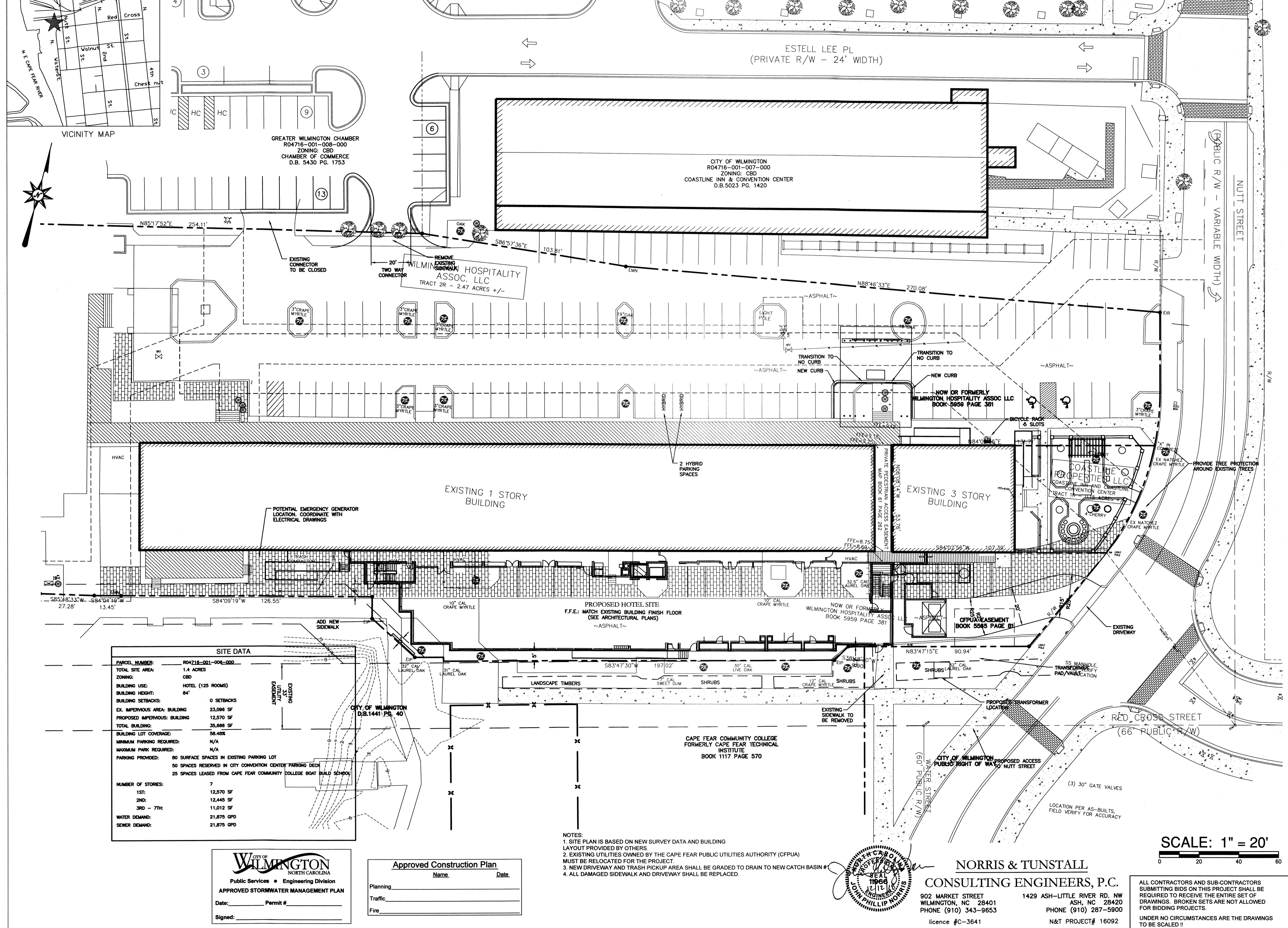


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 1429 ASH-LITTLE RIVER RD. NW ASH, NC 28420
 PHONE (910) 287-5900
 licence #C-3641 N&T PROJECT# 16092



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 UNDER NO CIRCUMSTANCES ARE THE DRAWINGS TO BE SCALED !!

| | |
|--|----------|
| BY | |
| REVISIONS | |
| DATE | |
| DRAWN BY | APPROVED |
| EDB | JPN |
| PROJ. # | DATE |
| 16092 | 12/12/18 |
| QUALITY FIRST | |
| DESIGN GROUP, PA Architecture · Planning 1309 Collegiate Drive, Wilkesboro, NC 28687 www.isomham.com | |
| EXISTING CONDITIONS / SITE INVENTORY PLAN ALOFT COASTLINE HOTEL | |
| WILMINGTON | |
| C1 | |

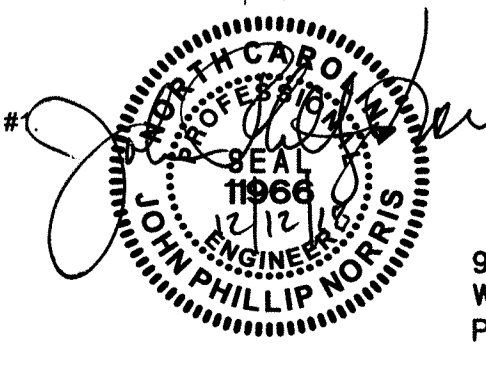


SITE DATA

| | |
|-------------------------------|---|
| PARCEL NUMBER: | R04716-001-008-000 |
| TOTAL SITE AREA: | 1.4 ACRES |
| ZONING: | CBD |
| BUILDING USE: | HOTEL (125 ROOMS) |
| BUILDING HEIGHT: | 84' |
| BUILDING SETBACKS: | 0 SETBACKS |
| EX. IMPERVIOUS AREA: BUILDING | 23,096 SF |
| PROPOSED IMPERVIOUS: BUILDING | 12,570 SF |
| TOTAL BUILDING: | 35,666 SF |
| BUILDING LOT COVERAGE: | 58.48% |
| MINIMUM PARKING REQUIRED: | N/A |
| MAXIMUM PARK REQUIRED: | N/A |
| PARKING PROVIDED: | 80 SURFACE SPACES IN EXISTING PARKING LOT 50 SPACES RESERVED IN CITY CONVENTION CENTER PARKING DECK 25 SPACES LEASED FROM CAPE FEAR COMMUNITY COLLEGE BOAT BUILD SCHOOL |
| NUMBER OF STORIES: | 7 |
| 1ST: | 12,570 SF |
| 2ND: | 12,445 SF |
| 3RD - 7TH: | 11,012 SF |
| WATER DEMAND: | 21,875 GPD |
| SEWER DEMAND: | 21,875 GPD |

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

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



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N&T PROJECT# 16092

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BY: _____

REVISIONS: _____

DATE: _____

DRAWN BY: EDB APPROVED: JPN

PROJ. #: 16092 DATE: 12/12/18

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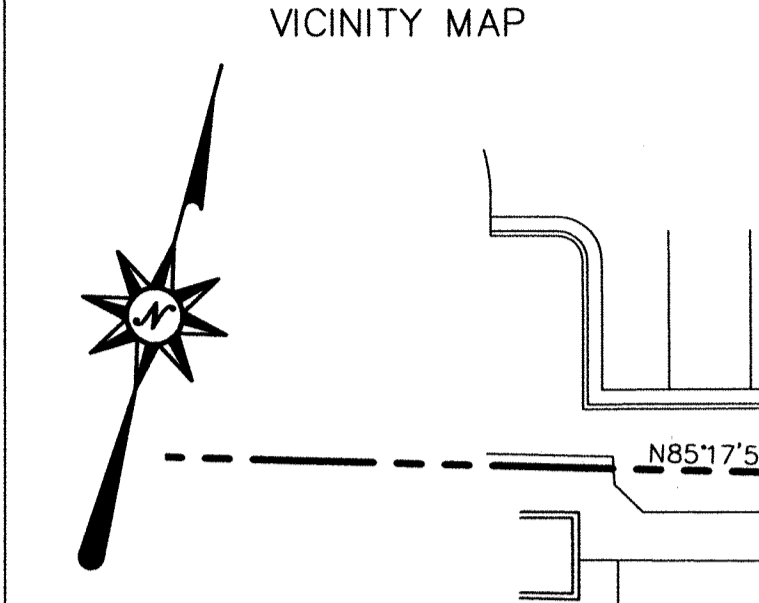
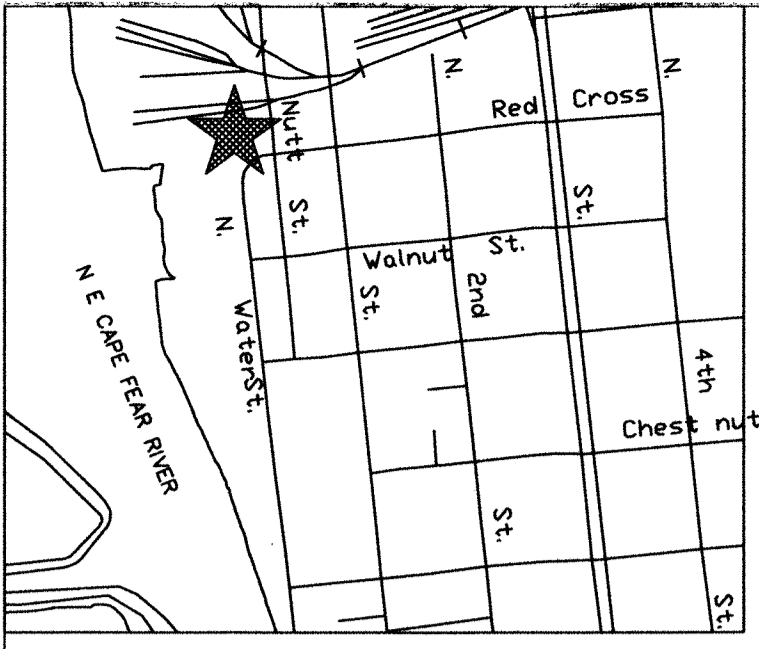
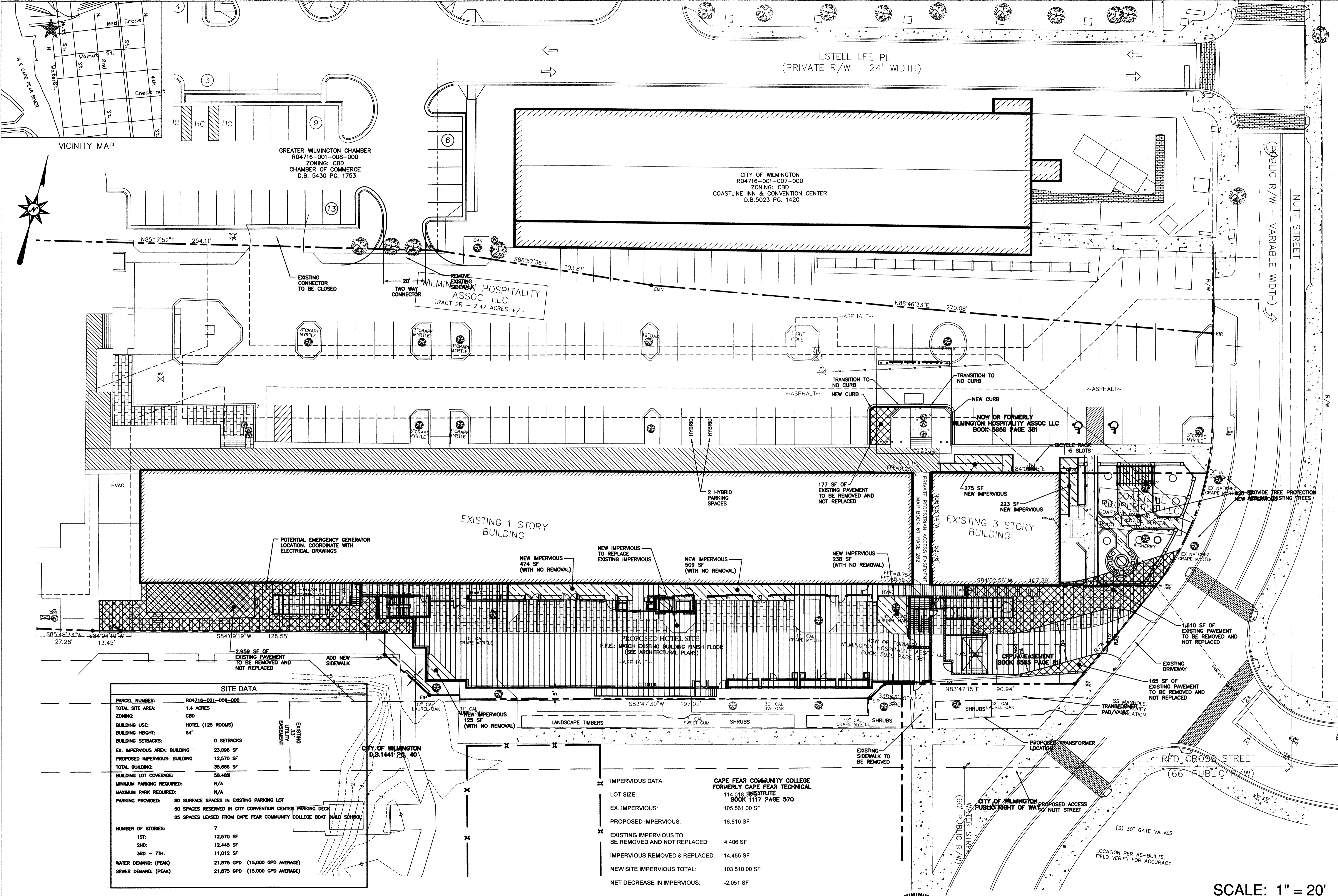
NORTH CAROLINA

ALOFT
COASTLINE HOTEL

WILMINGTON

SHEET

C3



GREATER WILMINGTON CHAMBER
R04716-001-008-000
ZONING: CBD
CHAMBER OF COMMERCE
D.B. 5430 PG. 1753

CITY OF WILMINGTON
R04716-001-007-000
ZONING: CBD
COASTLINE INN & CONVENTION CENTER
D.B.5023 PG. 1420

WILMINGTON HOSPITALITY ASSOC. LLC
TRACT 2R - 2.47 ACRES +/-

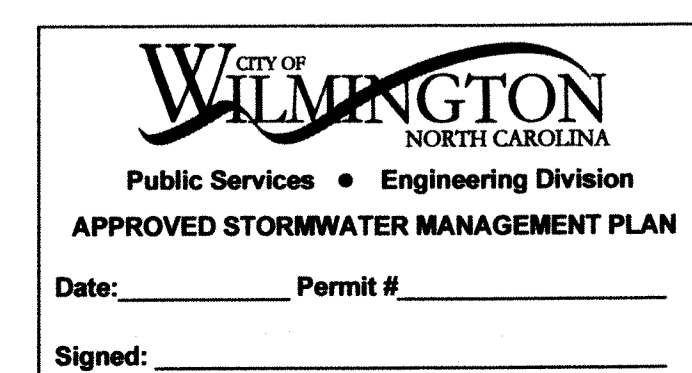
EXISTING 3 STORY BUILDING

EXISTING 1 STORY BUILDING

| SITE DATA | |
|-------------------------------|---|
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| TOTAL SITE AREA: | 1.4 ACRES |
| ZONING: | CBD |
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| PROPOSED IMPERVIOUS: BUILDING | 12,570 SF |
| TOTAL BUILDING: | 35,666 SF |
| BUILDING LOT COVERAGE: | 58.48% |
| MINIMUM PARKING REQUIRED: | N/A |
| MAXIMUM PARK REQUIRED: | N/A |
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| NUMBER OF STORIES: | 7 |
| 1ST: | 12,570 SF |
| 2ND: | 12,445 SF |
| 3RD - 7TH: | 11,012 SF |
| WATER DEMAND: (PEAK) | 21,875 GPD (15,000 GPD AVERAGE) |
| SEWER DEMAND: (PEAK) | 21,875 GPD (15,000 GPD AVERAGE) |

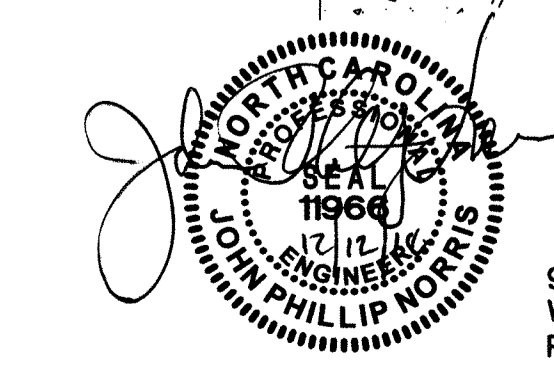
| IMPERVIOUS DATA | |
|---|---|
| LOT SIZE: | 114,018 SQUARE FEET BOOK 1117 PAGE 570 |
| EX. IMPERVIOUS: | 105,561.00 SF |
| PROPOSED IMPERVIOUS: | 16,810 SF |
| EXISTING IMPERVIOUS TO BE REMOVED AND NOT REPLACED: | 4,406 SF |
| IMPERVIOUS REMOVED & REPLACED: | 14,455 SF |
| NEW SITE IMPERVIOUS TOTAL: | 103,510.00 SF |
| NET DECREASE IN IMPERVIOUS: | -2,051 SF |

- NOTES:
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 - NEW DRIVEWAY AND TRASH PICKUP AREA SHALL BE GRADED TO DRAIN TO NEW CATCH BASIN #1.
 - ALL DAMAGED SIDEWALK AND DRIVEWAY SHALL BE REPLACED.

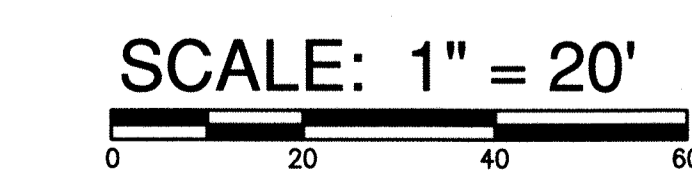


Approved Construction Plan

| | |
|----------|------|
| Name | Date |
| Planning | |
| Traffic | |
| Fire | |



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licence #C-3641 N&T PROJECT# 16092



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| | |
|-----------|----------|
| BY | |
| DATE | |
| REVISIONS | |
| DRAWN BY | EDB |
| APPROVED | JPN |
| PROJ. # | 16092 |
| DATE | 12/12/18 |

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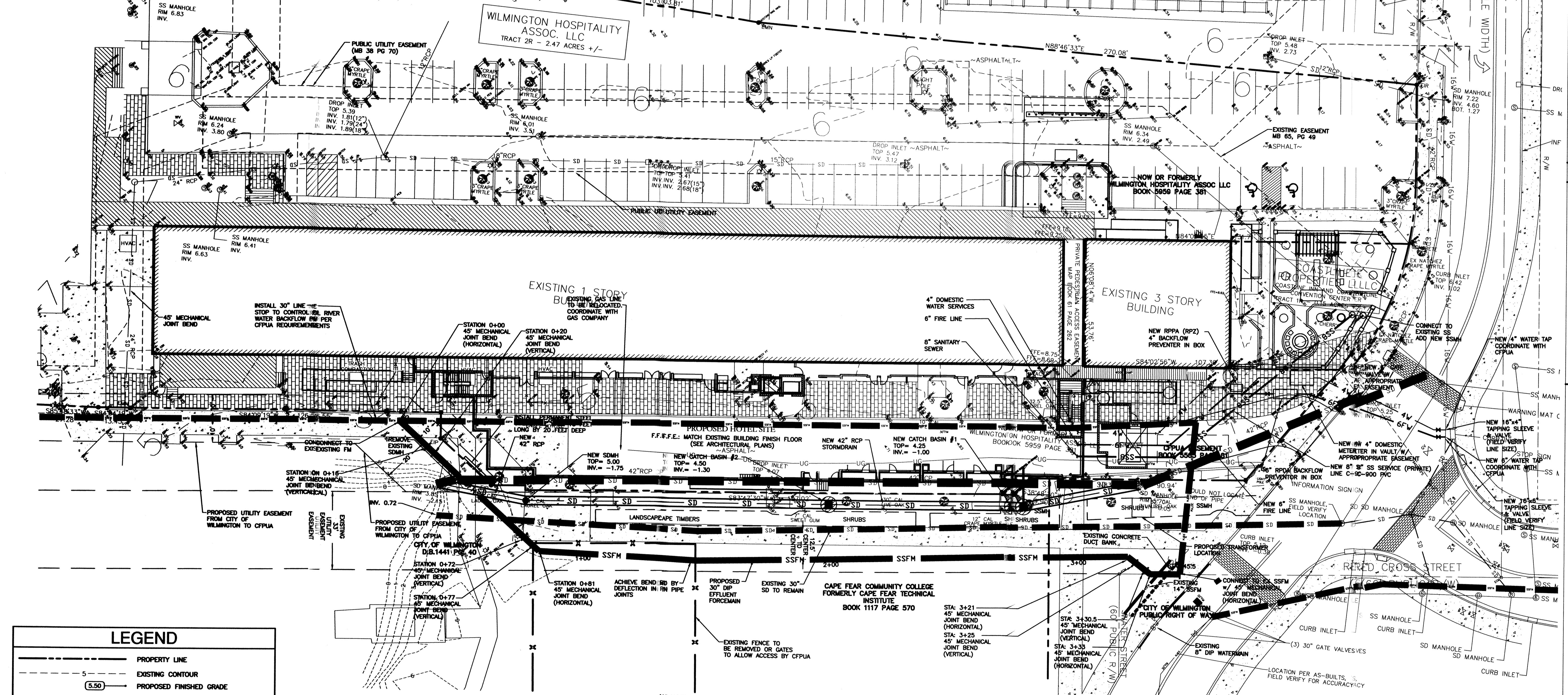
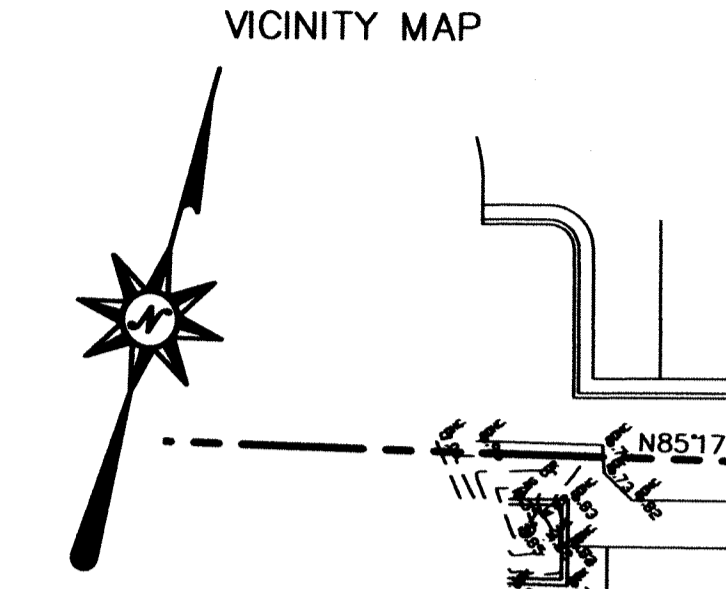
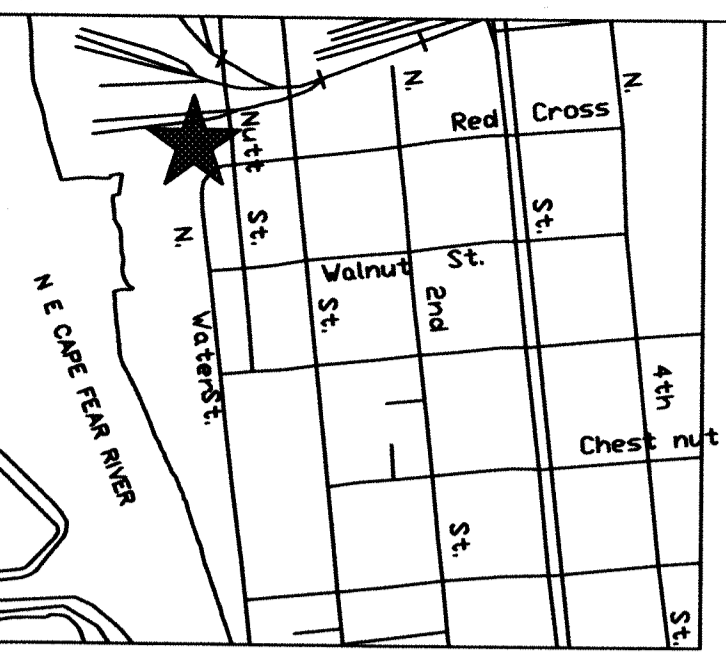
IMPERVIOUS SITE PLAN

ALOFT
COASTLINE HOTEL

WILMINGTON

SHEET

C3.1



| LEGEND | |
|--------|------------------------------------|
| --- | PROPERTY LINE |
| - - - | EXISTING CONTOUR |
| (5.50) | PROPOSED FINISHED GRADE |
| SD | EXISTING STORMDRAIN |
| SD | RELOCATED 42" STORMDRAIN |
| SSFM | RELOCATED 30" SS FORCEMAIN |
| BSS | PROPOSED 8" SANITARY SEWER |
| 6FW | PROPOSED 6" FIRE LINE |
| 4W | PROPOSED 4" DOMESTIC WATER SERVICE |

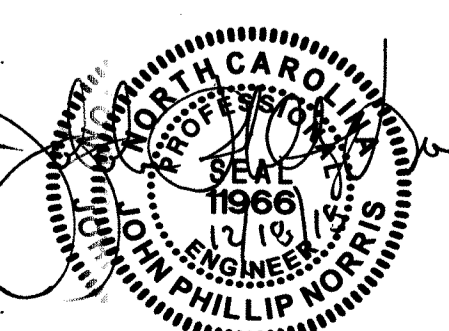
CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

| Name | Date |
|----------|------|
| Planning | |
| Traffic | |
| Fire | |

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 2. EXISTING UTILITIES OWNED BY THE CAPE FEAR PUBLIC UTILITIES AUTHORITY (CFPUA) MUST BE RELOCATED FOR THE PROJECT.
 3. NEW DRIVEWAY AND TRASH PICKUP AREA SHALL BE GRADED TO DRAIN TO NEW CATCH BASIN #1.
 4. ALL DAMAGED SIDEWALK AND DRIVEWAY SHALL BE REPLACED.
 5. EXISTING 30" SSFM THAT IS ABANDONED WILL BE REMOVED.
 6. JOINT RESTRAINTS SHALL BE PROVIDED AT BOTH CONNECTIONS TO THE EXISTING 30" SSFM.
 7. MAXIMUM SHUT DOWN PERIOD FOR SSFM CONNECTIONS SHALL BE 8 HOURS.
 8. GAUGED PIPE IS REQUIRED AT BOTH SSFM CONNECTION POINTS.
 9. THE NEW SSFM SHALL BE CAPPED AND TESTED PRIOR TO SHUT DOWN FOR THE CONNECTIONS.
 10. CONSTRUCTION SHALL BE IN COMPLIANCE WITH 15ANCAL 2T AND THE NC DIVISION OF WATER RE: RESOURCES MINIMUM DESIGN CRITERIA FOR THE PERMITTING OF PUMP STATIONS & FORCE MAINS. (STANDARD NCDEQ FAST TRACK SEWER ENGINEERING CERTIFICATION IS REQUIRED)



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ASH, NC 28420
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N&T PROJECT# 16092

SCALE: 1" = 20'

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| REVISIONS | DATE | BY |
|-----------|------|----|
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| DRAWN BY | APPROVED |
|----------|----------|
| EDB | JPN |
| PROJ. # | DATE |
| 16092 | 12/19/18 |

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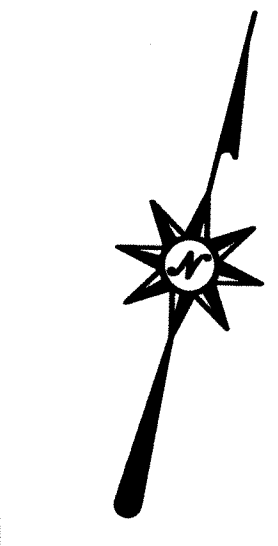
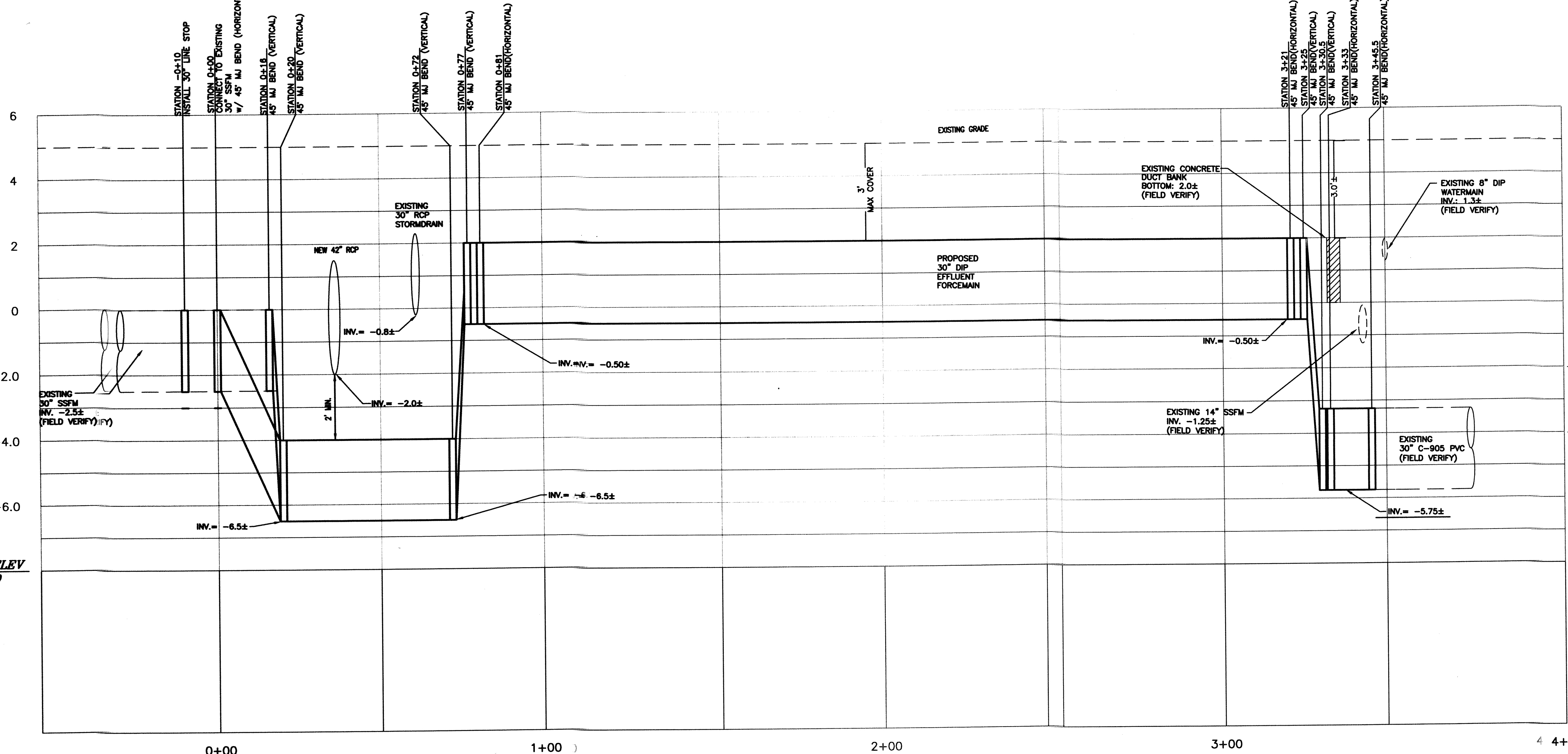
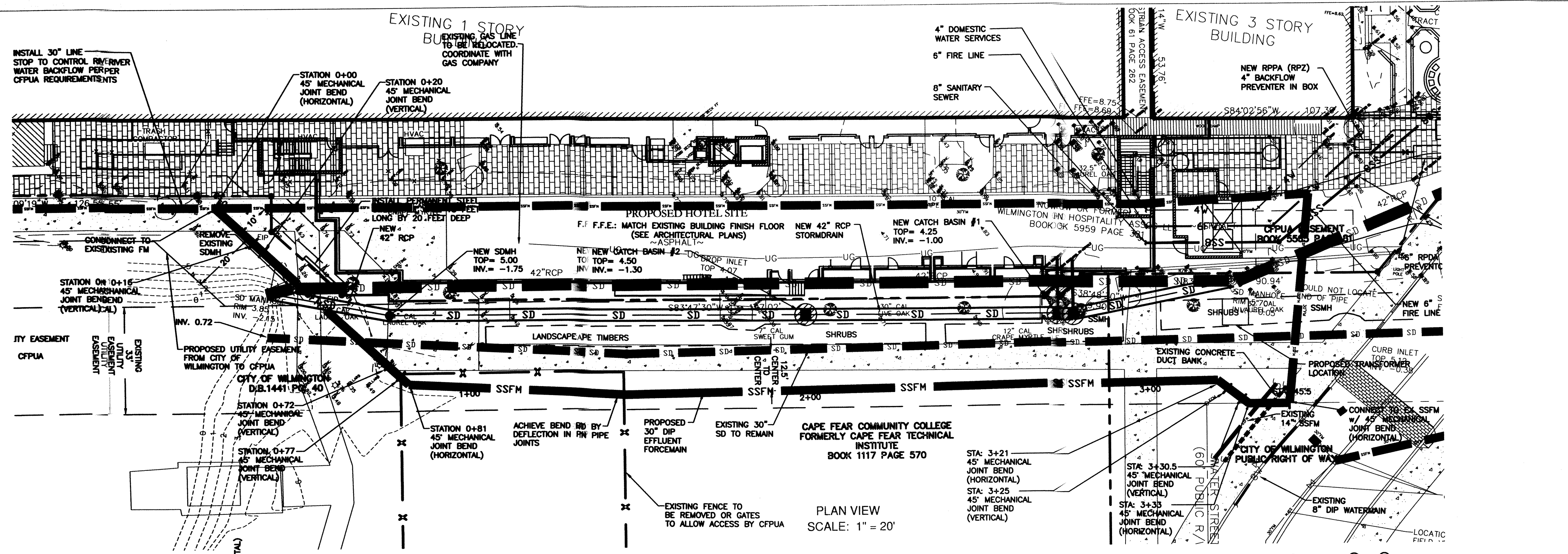
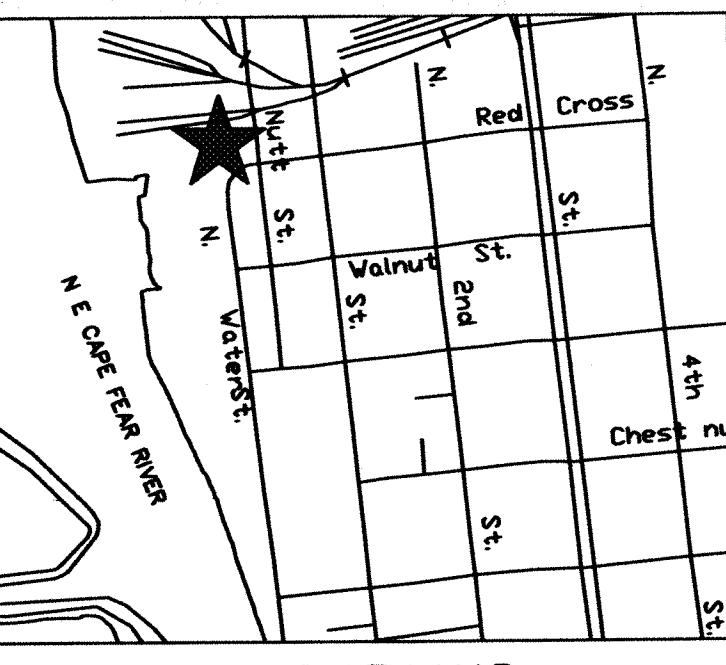
UTILITY PLAN

ALOFT
COASTLINE HOTEL

WILMINGTON

SHEET

C4

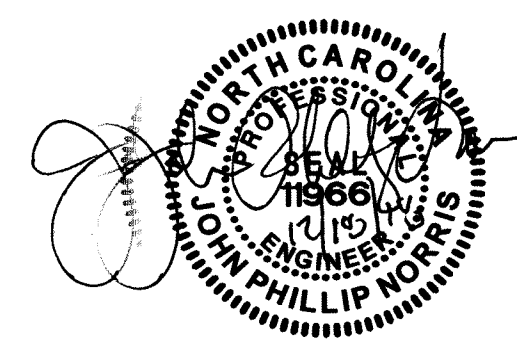


CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____

Approved Construction Plan

| Name | Date |
|----------|------|
| Planning | |
| Traffic | |
| Fire | |

- NOTES:**
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 - EXISTING UTILITIES OWNED BY THE CAPE FEAR PUBLIC UTILITIES AUTHORITY (CFPUA) MUST BE RELOCATED FOR THE PROJECT.
 - PIPE RESTRAINTS ARE REQUIRED AT BOTH 30" FM CONNECTION POINTS AND BENDS.
 - SHUT DOWN PERIOD FOR 30" FM IS 8 HOURS MAXIMUM.
 - CONTRACTOR SHALL PROVIDE AN INCIDENT ACTION PLAN.
 - GAUGED PIPE IS REQUIRED AT BOTH 30" FM CONNECTION POINTS.
 - 30" FM SHUTDOWN SCHEDULE SHALL BE WEATHER DEPENDENT.
 - CONTRACTOR SHALL PROVIDE A DETAILED CONSTRUCTION SEQUENCE FOR RE-CONNECTION OF 30" FM.



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 licence #C-3641 N&T PROJECT# 1608092

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| BY | DATE | REVISIONS |
|----|------|-----------|
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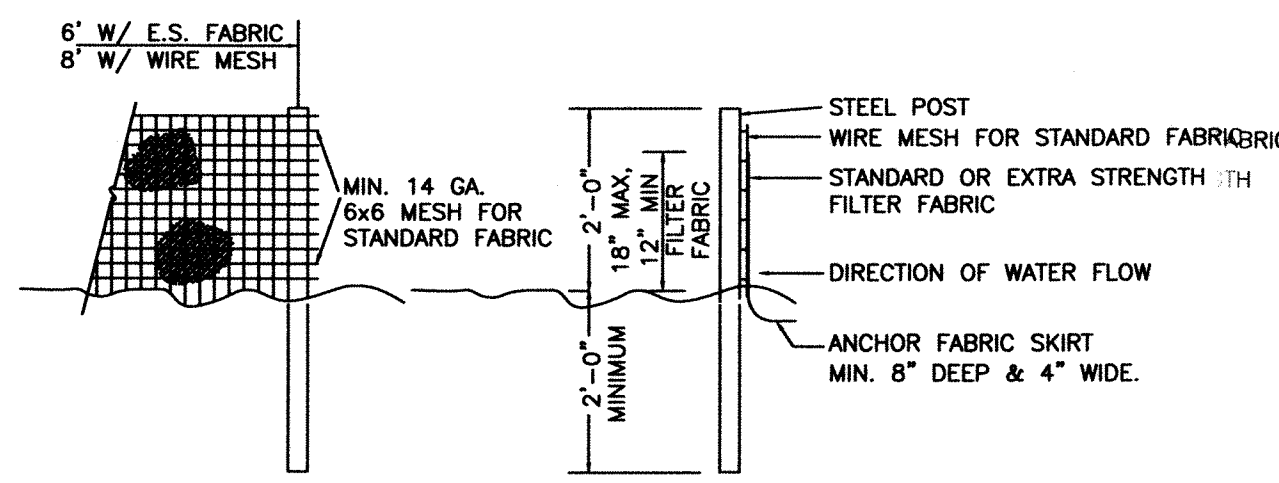
DRAWN BY: EDB
 APPROVED: JPN
 PROJ. #: 16092
 DATE: 12/19/18

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 Architecture • Planning
 1309 Collegiate Drive, Wilkesboro, NC 28687
 www.isomham.com

SSFM PLAN AND PROFILE
ALOFT
COASTLINE HOTEL

SHEET
C4.1

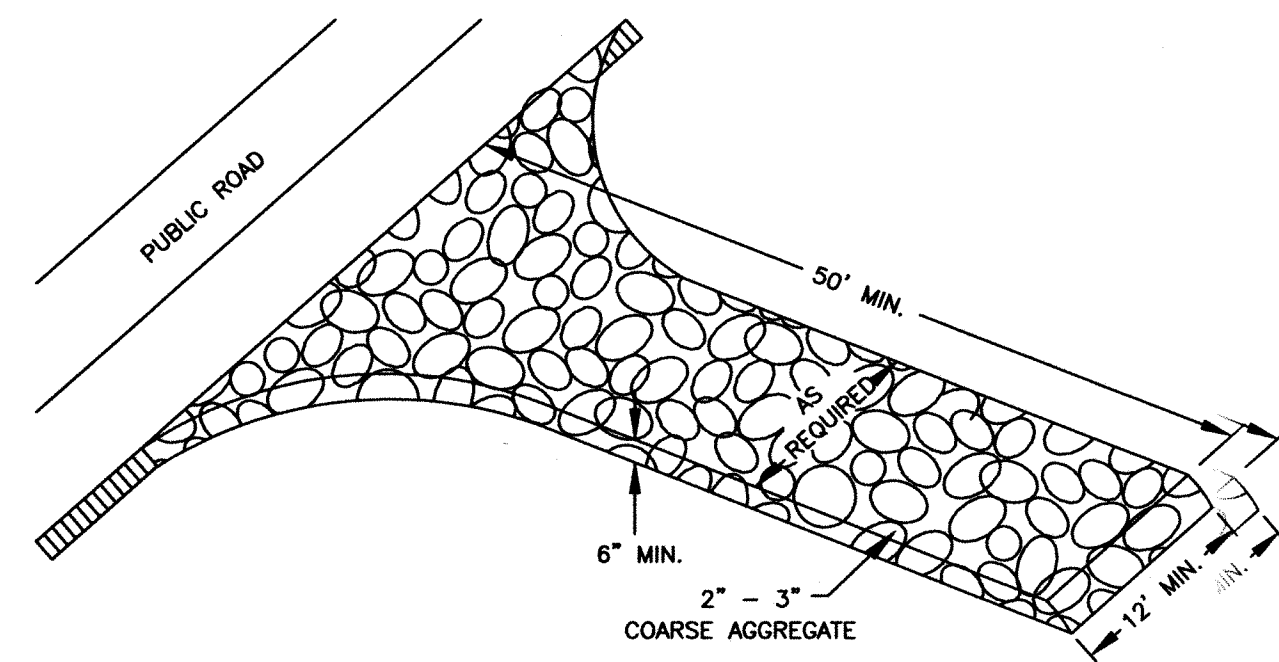


- NOTES:
1. SYN. FENCE FABRIC SHALL BE MIN. OF 30" IN WIDTH WITH 30 LB/IN TENSILE STRENGTH FOR STANDARD FABRIC AND 50 LB/IN FOR EXTRA STRENGTH.
 2. FABRIC SHALL BE CONTINUOUS LENGTH. IF JOINTS ARE NECESSARY, LAP FABRIC POST TO POST.
 3. STEEL POST SHALL BE MIN 4" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

TEMPORARY SILT FENCE

NTS

TEMPORARY SILT FENCE MAINTENANCE
 INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



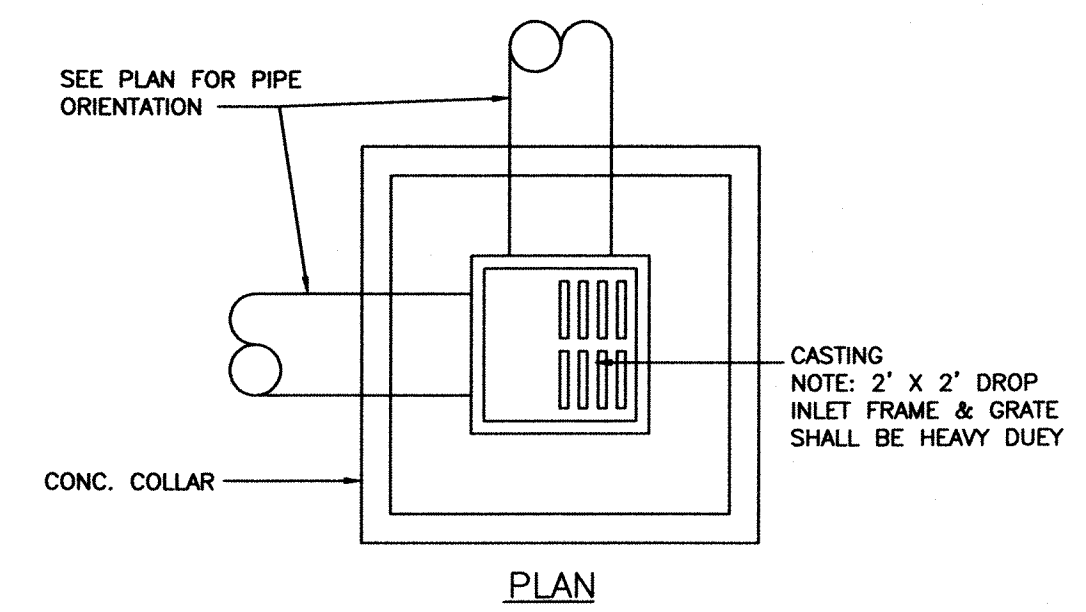
TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE

NTS

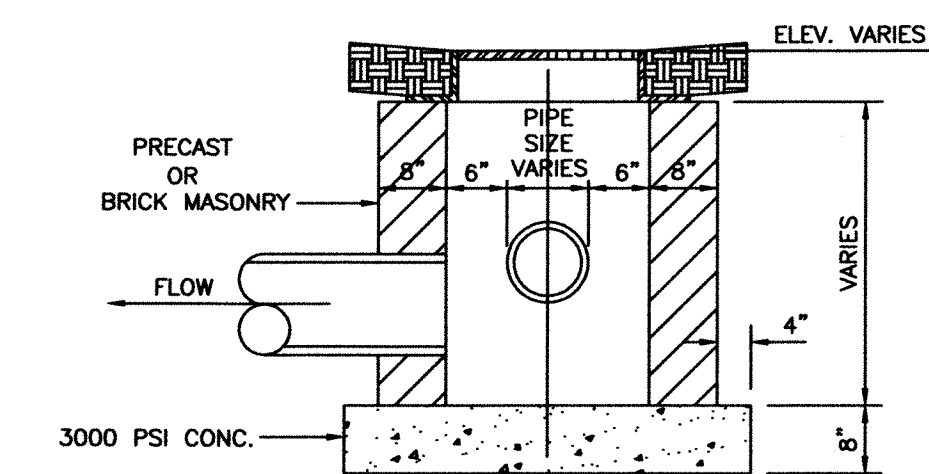
GRAVEL CONSTRUCTION ENTRANCE

- CONSTRUCTION SPECIFICATION:**
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
 2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
 3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET, ET.
 4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:
 MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.



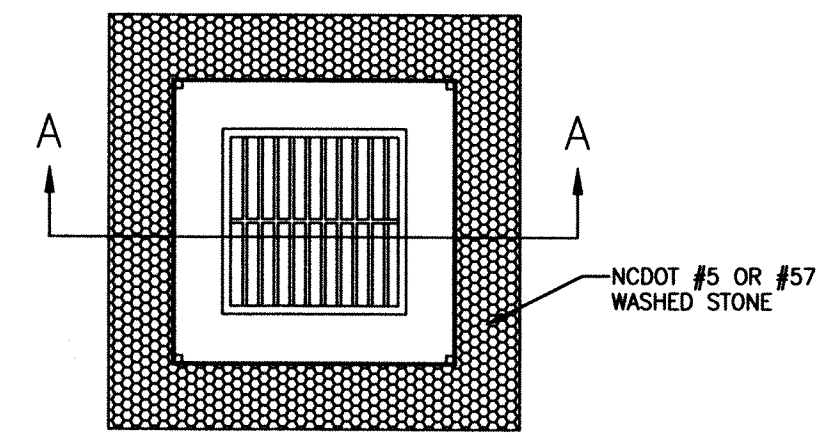
PLAN



SECTION

DROP INLET DETAIL

NTS



CONSTRUCTION SEQUENCE:

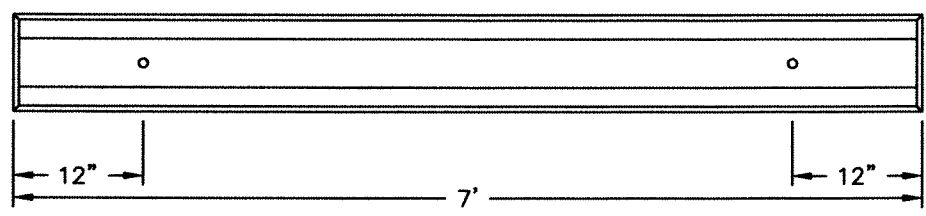
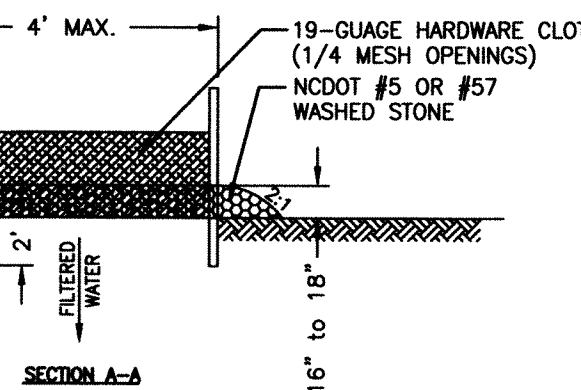
1. UNFORMALLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5" STEEL POST 2' INTO THE GROUND SURROUNDING THE INLET. SPACE POST EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4' APART.
3. SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POST AT THE TOP, MIDDLE AND BOTTOM. PLACE A 2' FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16" TO 18" AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUND COVER.

MAINTENANCE:

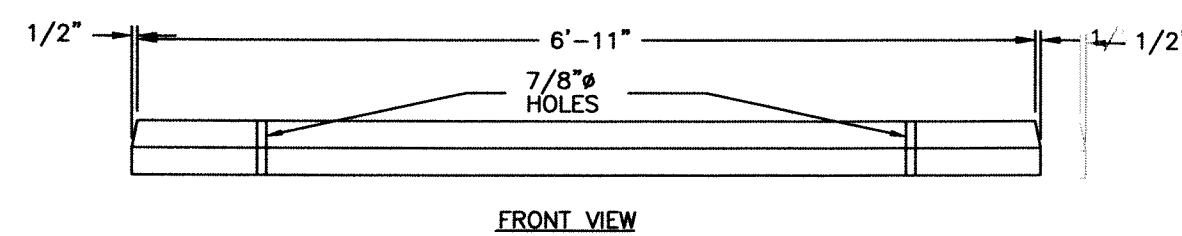
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

HARDWARE CLOTH & GRAVEL INLET PROTECTION

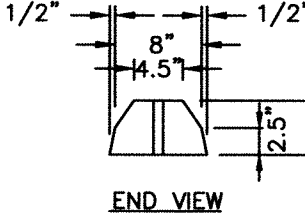
NTS



PLAN VIEW



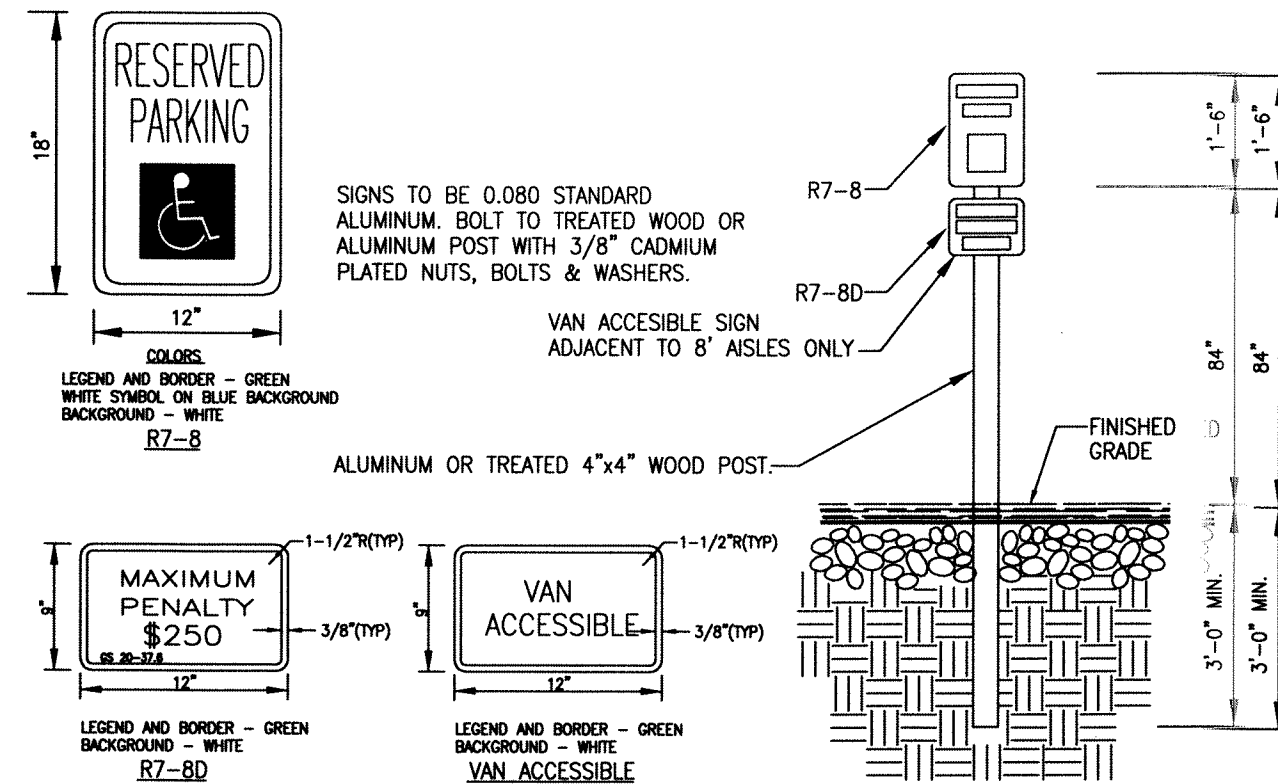
FRONT VIEW



END VIEW

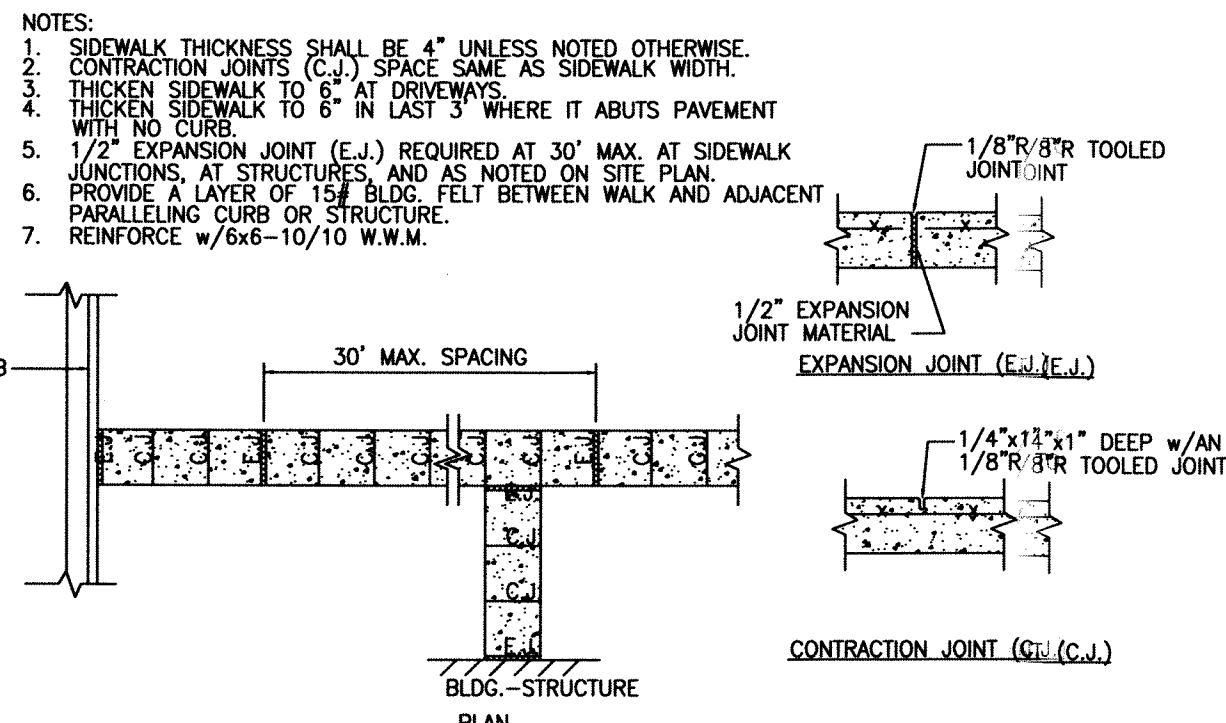
WHEEL STOP DETAIL

NTS



TYPICAL HANDICAPPED SIGN DETAIL

NTS



SIDEWALK JOINT DETAILS

NTS

CITY OF WILMINGTON STANDARD NOTES:

1. CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING ANY DIGGING AT 1-800-632-4949.
2. 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 TREE PROTECTION MUST BE MAINTAINED DURING CONSTRUCTION.
3. ALL PAVEMENT MARKINGS IN PUBLIC RIGHT-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
4. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
5. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, OR CURBING WILL BE REPLACED.
6. CONTACT TRAFFIC ENGINEERING AT 341-7893 TO DISCUSS STREET LIGHTING OPTIONS.
7. ALL SITE LIGHTING SHALL BE LOCATED AND INSTALLED SO AS NOT TO SHINE DIRECTLY ONTO ADJACENT PREMISES. UNRESTRICTED LIGHTING IS LIMITED TO A HEIGHT OF TEN (10) FEET AND 90 DEGREE CUTOFF LIGHTING IS LIMITED TO FIFTEEN (15) FEET.
8. MECHANICAL EQUIPMENT AND TRASH RECEPTACLES WILL BE SCREENED BY AN EIGHT (8) FEET HIGH OPAQUE FENCE.
9. PROJECT SHALL COMPLY WITH CAPE FEAR PUBLIC UTILITIES AUTHORITY CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
10. IF THE CONTRACTOR DESIRES WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
11. ANY IRRIGATION SYSTEM SHALL COMPLY WITH THE CAPE FEAR PUBLIC UTILITIES AUTHORITY CROSS CONNECTION CONTROL REGULATIONS.
12. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CAPE FEAR PUBLIC UTILITIES AUTHORITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOOR OR ASSE.
13. WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 SINGLE STRAND INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND STRAPPED TO THE PIPES WITH DUCT TAPE. THE INSULATED WIRE IS TO BE STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES. THIS WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
14. CONTRACTOR SHALL COORDINATE ALL UTILITIES WITH CPWA PRIOR TO CONSTRUCTION.
15. ALL TRAFFIC CONTROL SIGNS AND MARKING OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
16. ALL PARKING MARKINGS AND LANE ARROWS WITHIN THE PARKING AREA SHALL BE WHITE.
17. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPPING.
18. A LANDSCAPE 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 PLAN.
19. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
20. CALL 341-5888 TO SEE IF A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
21. ANY GROUND LEVEL MECHANICAL EQUIPMENT, HVAC AND ELECTRICAL PANELS MUST BE SCREENED FROM THE VIEW OF ANY ADJACENT PROPERTY OR RIGHT OF WAY.
22. 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. PLEASE COORDINATE WITH ENGINEERING FOR CONSTRUCTION SEQUENCING FOR RANDALL PARKWAY WIDENING EFFORTS AND POTENTIAL LIMITATIONS ON CUTS TO NEW ASPHALT THAT COULD IMPACT THIS DEVELOPMENT.

SITE WORK/IRK NOTES:

1. THE CO-CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CD CONSTRUCTION CONDITIONS.
2. CONTRACTOR SHALL COORDINATE WORK WITHIN LOCAL RIGHT OF WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.
3. CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN, STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN 4IN LIMITS OF CONSTRUCTION.
4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, ID, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.
5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CD CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT-FILL COMPACTED AS SPECIFIED.
6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
7. BORROW/MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.
8. FILL AND/AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR RUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, UN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SP, SM, OR SC. FILL MATERIAL 5' OUTSIDE OF BUILDING AREAS SHALL BE THEN BE PLACED IN LAYERS TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL MATERIALS WITHIN BUILDING AREAS TO A LINE OUTSIDE THE BUILDING AREAS SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED IN 6 INCH LAYERS TO 102% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF IN-PLACE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTOR REQUIREMENTS. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.
11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY MIKE UNDERWOOD AND PROVIDED BY OWNER.
12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES.
14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS.
15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL RL REQUIREMENTS.
16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
17. SEE GEOEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
18. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.
19. REIN. GR. CONC. PIPE SHALL BE CLASS III W/RUBBER GASKETED JOINT OR "RAMRAM NECK". INSTALL PER MANUFACTURER'S REQUIREMENTS.
20. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE AND WATER LINES.
21. SEE P.E.P.M.E SHEETS FOR LOCATION AND INVERTS OF CONDENSATE AND ROOF DRAIN. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CONNECT THESE LINES TO THE UNDERGROUND DOWNSPOUT DRAIN AT THE REQUIRED DEPTH TO DRAIN ALL UNDERGROUND DOWNSPOUT DRAINS SHALL HAVE A MINIMUM SLOPE OF 1% AND BE SCH 40 PVC PIPE AS FOLLOWS: USE 4" PIPE FOR UP TO 4 DOWNSPOUT CONNECTIONS, 5" PIPE FOR 5 TO 8 DOWNSPOUT CONNECTIONS AND 8" PIPE FOR 9 OR MORE CONNECTIONS.
22. THE FINISHED GROUND ELEVATION AT THE BUILDING PERIMETER SHALL BE A MINIMUM OF 6 INCHES BELOW THE BUILDING FINISH FLOOR ELEVATION EXCEPT AT ENTRANCES AND ENTRANCE TRANSITIONS.

EROSION CONTROL NOTES AND MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES 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.
2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
3. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNATED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SIFT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, SANDY DAMS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
4. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN 5/8" STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCKROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

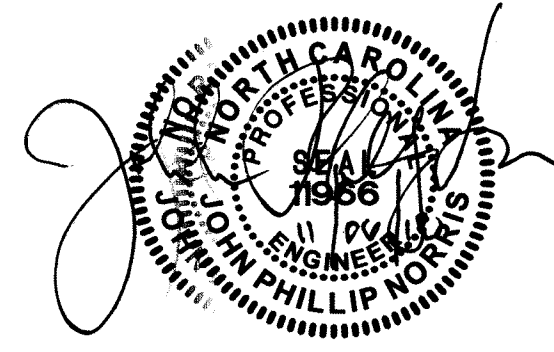
LAND QUALITY REQUIREMENTS

5. ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS. WATER QUALITY REQUIRES ALL SEEDED AREAS BE FERTILIZED, RESEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, HORIZONTAL TO DITCHES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN (3:1) VERTICAL AND ALL HIGH QUALITY WATER (HOW) ZONES SHALL PROVIDE TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICAL BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL PROVIDE TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICAL BUT IN ANY EVENT WITHIN FOURTEEN (14) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

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

Approved Construction Plan

| Name | Date |
|----------|------|
| Planning | |
| Traffic | |
| Fire | |



NORRIS & TUNSTALL
 CONSULTING ENGINEERS, P.C.C.
 902 MARKET STREET WILMINGTON, NC 28401
 PHONE (910) 343-9653
 1429 ASH-LITTLE RIVER RD. NWNW ASH, NC 28402
 PHONE (910) 287-5900
 licence #C-3641 N&T PROJECT# 1609292

ALL CONTRACTORS AND SUB-CONTRACTORS SUBMITTING BIDS ON THIS PROJECT SHALL BE REQUIRED TO RECEIVE THE ENTIRE SET OF DRAWINGS. BROKEN SETS ARE NOT ALLOWED FOR BIDDING PURPOSES.
 UNDER NO CIRCUMSTANCES ARE THE DRAWINGS TO BE SEALED!!

| | | | |
|-----------|-------|----------|----------|
| BY | | | |
| REVISIONS | | | |
| DATE | | | |
| DRAWN BY | EDB | APPROVED | JPN |
| PROJ. # | 16092 | DATE | 11/06/18 |

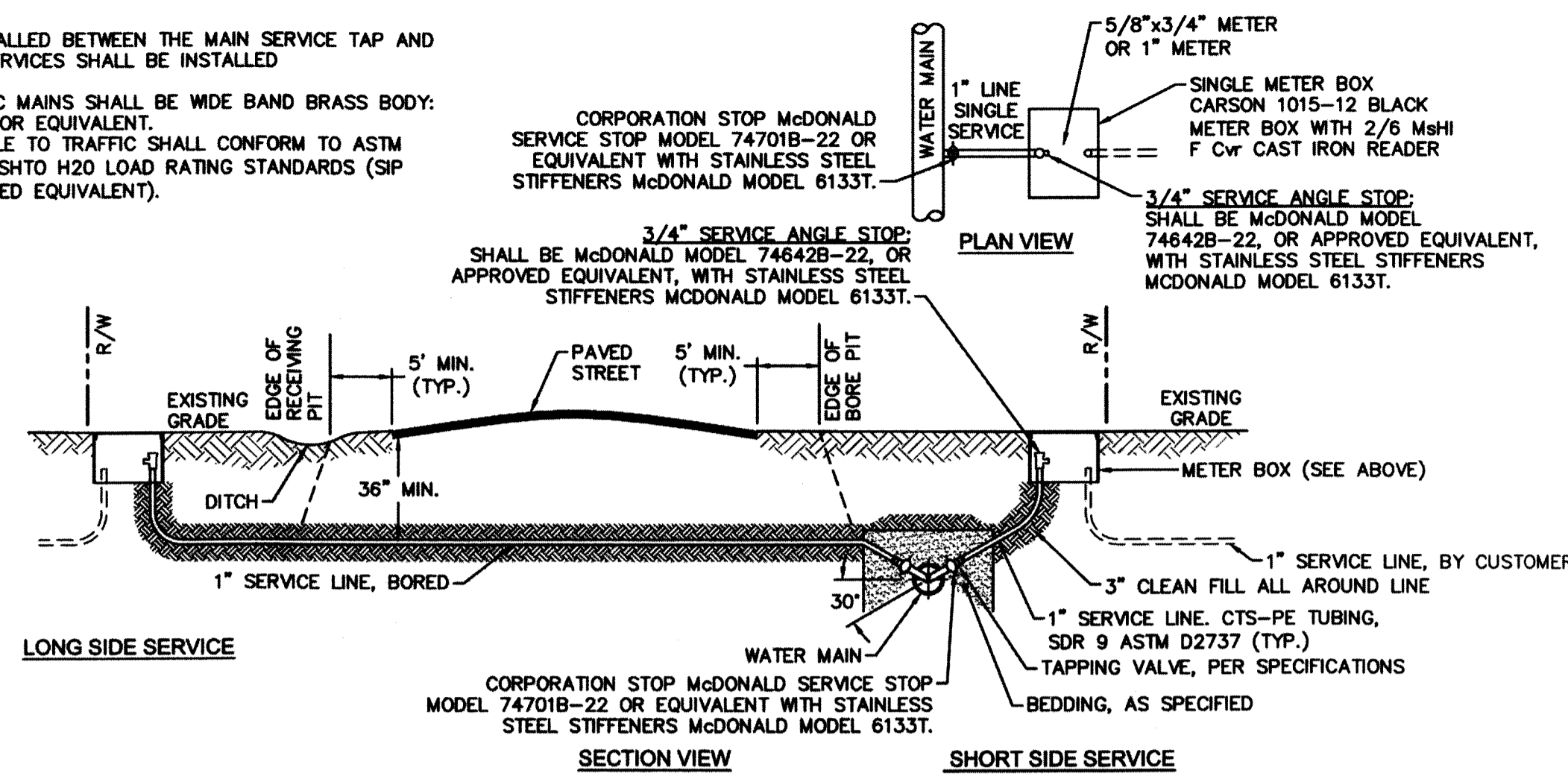
QUALITY FIRST

isomham
 DESIGN GROUP, PA
 Architecture • Planning
 1309 Collegiate Drive, Wilkesboro, NC 28687 www.isomham.com

ALOFT COASTLINE HOTEL

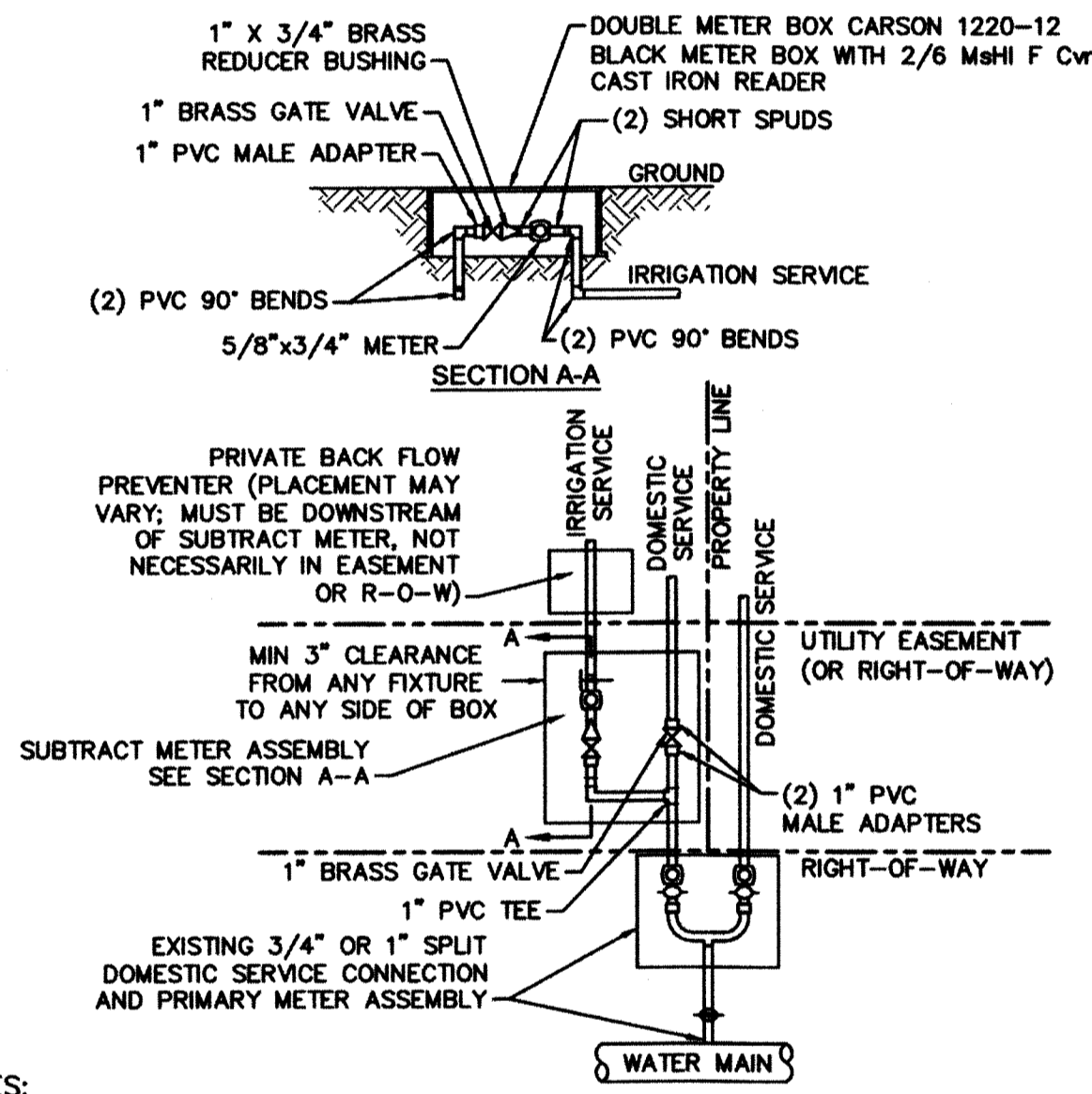
DETAILS SHEET **C5**

- NOTES:**
- NO JOINT SHALL BE INSTALLED BETWEEN THE MAIN SERVICE TAP AND THE METER STOP. ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
 - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: SADDLE McDONALD 3801 OR EQUIVALENT.
 - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (SIP MODEL 4242, OR APPROVED EQUIVALENT).



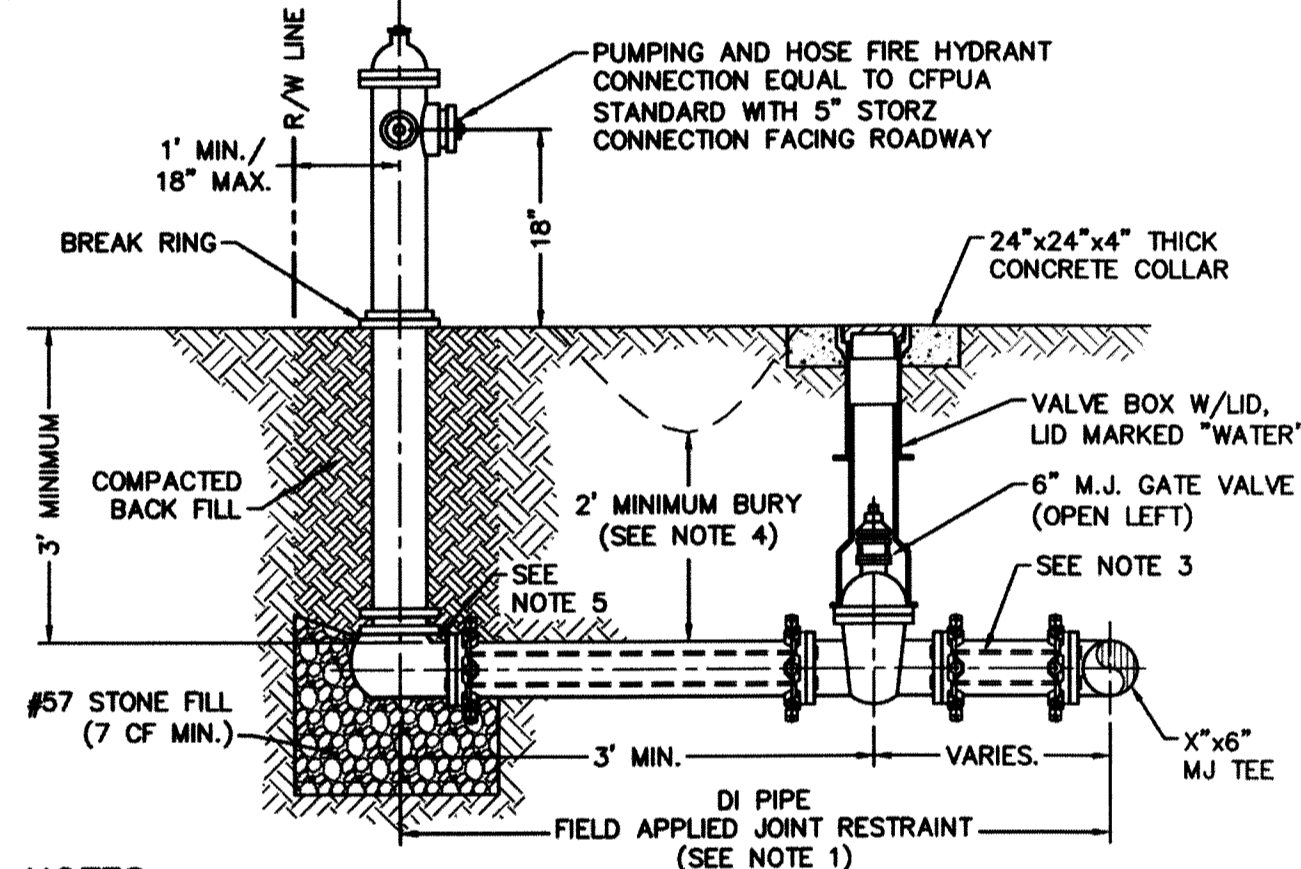
NOTE:
TYPICAL WATER SERVICE CONNECTION FOR RESIDENTIAL SINGLE FAMILY HOME ON CFPWA WATER SYSTEM

WD-18 SINGLE SERVICE CONNECTION
NOT TO SCALE



- NOTES:**
- BEYOND THE PRIMARY DOMESTIC METER ASSEMBLY, CFPWA IS ONLY RESPONSIBLE FOR METER AND WASHERS OF SUBTRACT METER ASSEMBLY.
 - ALL PIPE AND FITTINGS UP TO FINAL SERVICE LINE TO BE 1\"/>

WD-8 DOUBLE SERVICE CONNECTION USING SUBTRACT METER
NOT TO SCALE



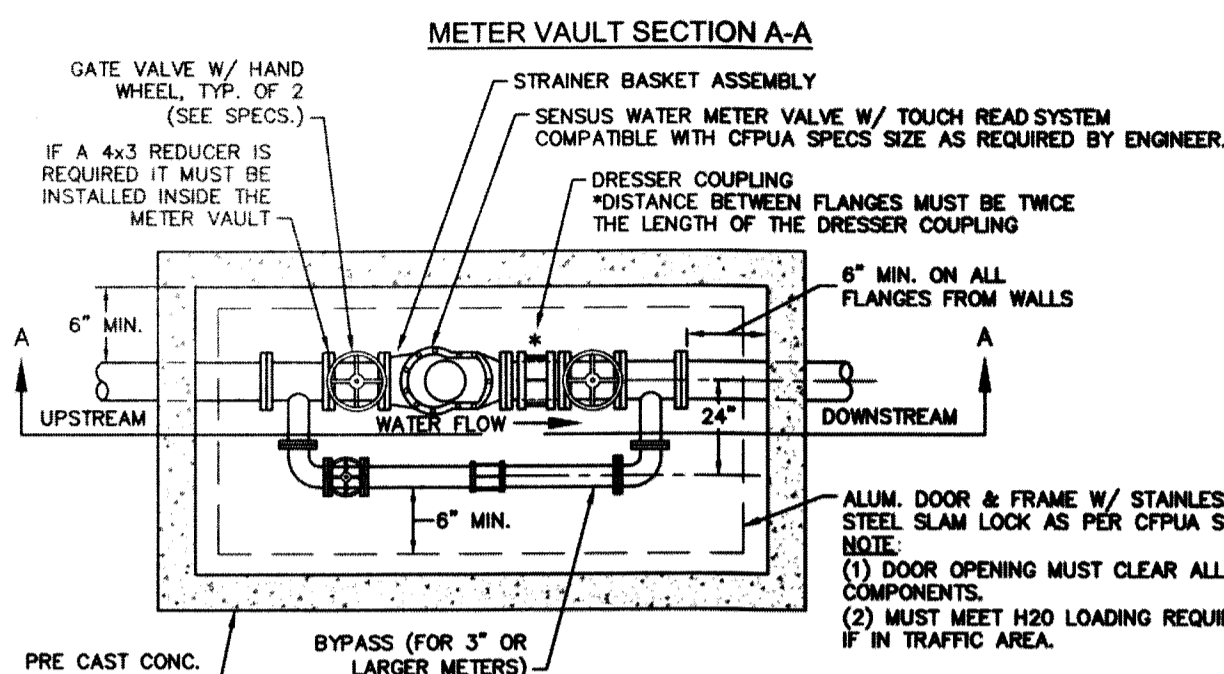
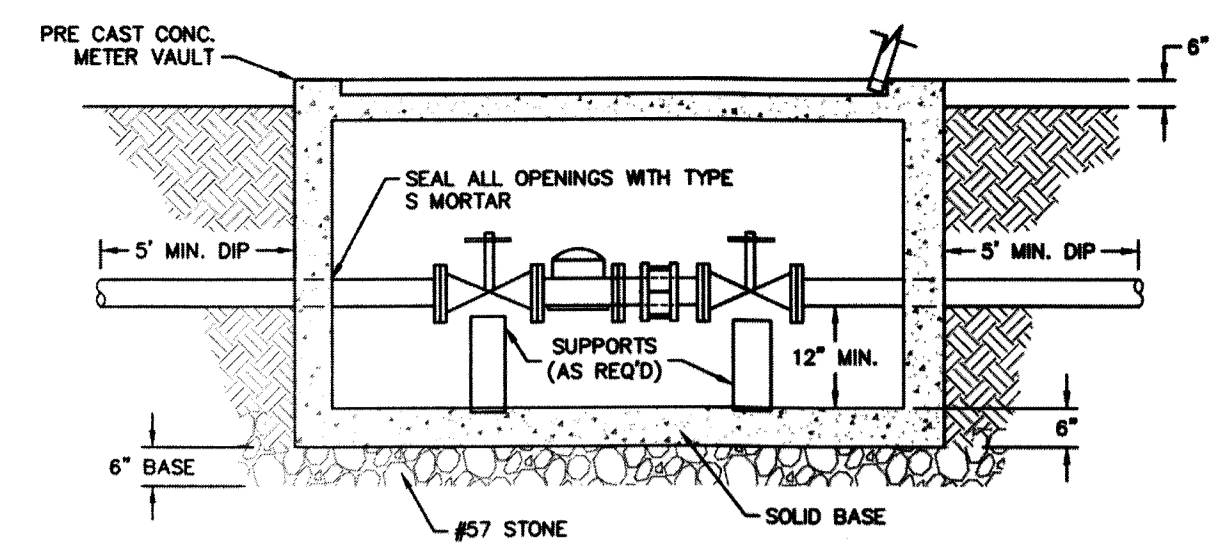
- NOTES:**
- JOINT RESTRAINT SYSTEMS SHALL BE WEDGE ACTION STYLE FOR DI PIPE AS MANUFACTURED BY EBAA IRON, SIGMA, STAR PIPE PRODUCTS OR APPROVED EQUAL.
 - WHEN HYDRANT LEGS REQUIRE FULL LENGTH PIPE SECTIONS, OVER BELL RESTRAINT SYSTEM SHALL HAVE 316 STAINLESS STEEL HARNESS AND FASTENERS.
 - CONTINUOUS 316 STAINLESS STEEL RODS (TEE TO VALVE AND VALVE TO HYDRANT) MAY BE USED WITH COP-BLUE MJ T-BOLT AND GASKET KITS, AS AN ALTERNATIVE.
 - HYDRANT AND VALVE SHALL BE PLACED OUTSIDE DITCH LIMITS.
 - WEEP HOLES OPEN AND UNBLOCKED TO DRAIN.

WD-10 FIRE HYDRANT ASSEMBLY
NOT TO SCALE

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
- ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTENERS SHALL BE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

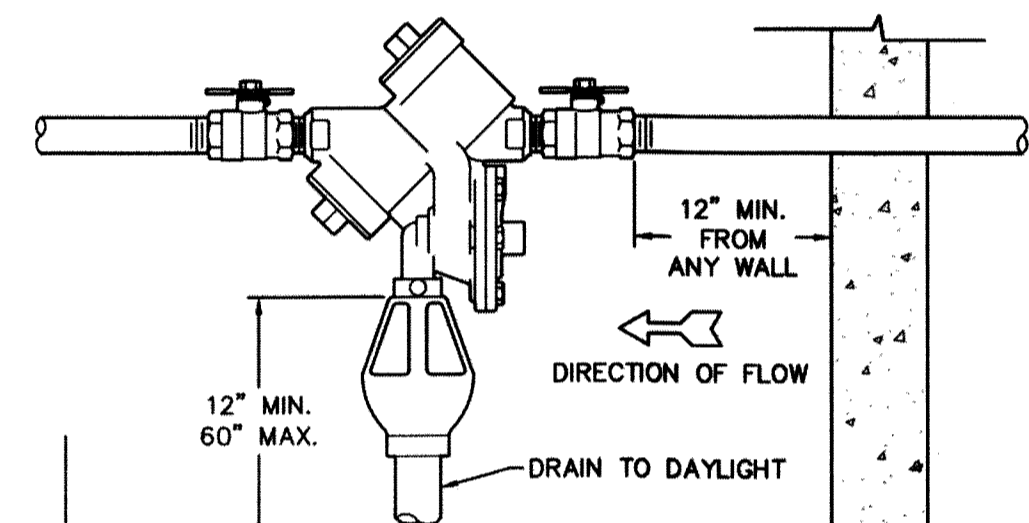
WD-19 STANDARD NOTES
(REQUIRED ON ALL PLAN AND PROFILE SHEETS)



METER VAULT PLAN

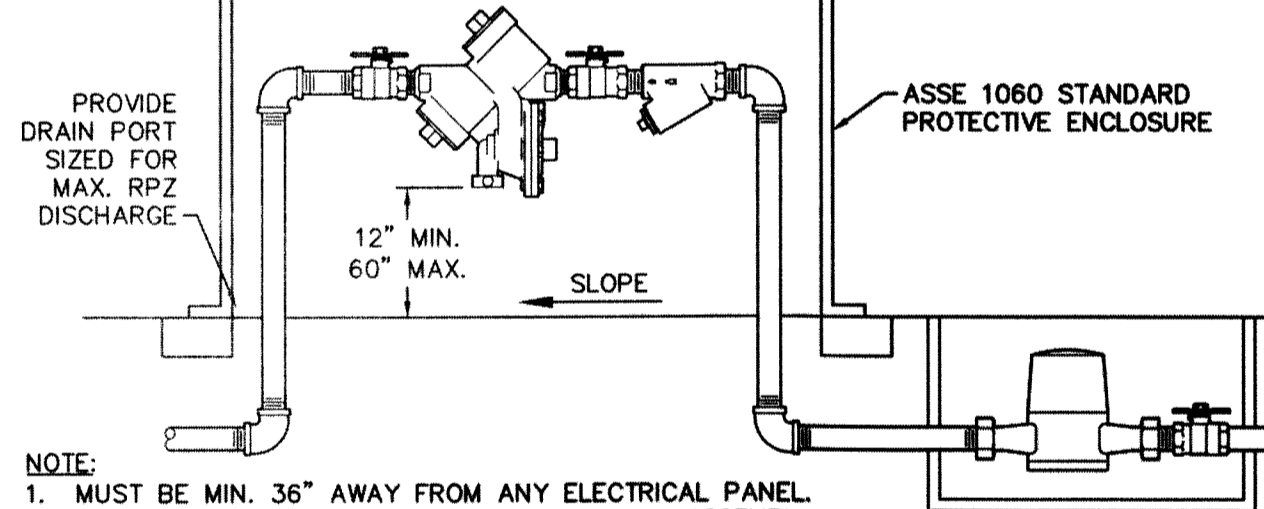
FOR WATER METERS LARGER THAN 2"

WD-1 WATER METER VAULT
NOT TO SCALE



NOTE: MUST BE MIN. 36\"/>

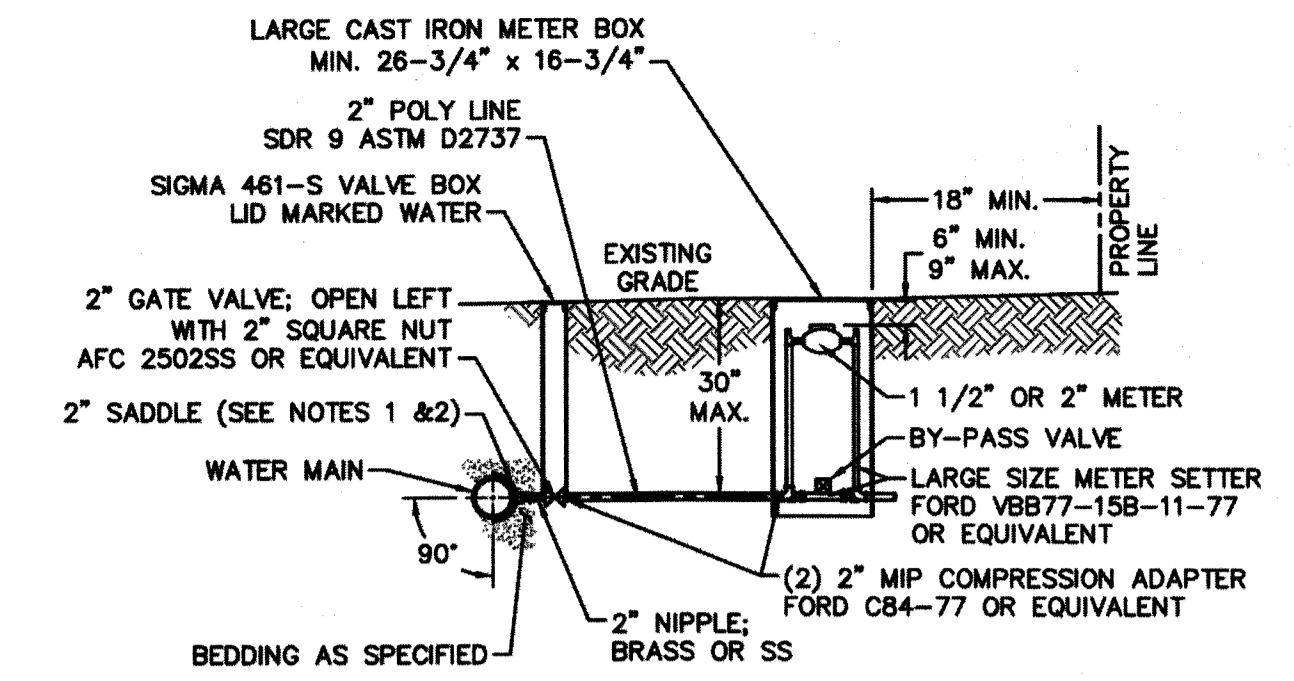
INDOOR HORIZONTAL INSTALLATION



- NOTE:**
- MUST BE MIN. 36\"/>

OUTDOOR HORIZONTAL INSTALLATION

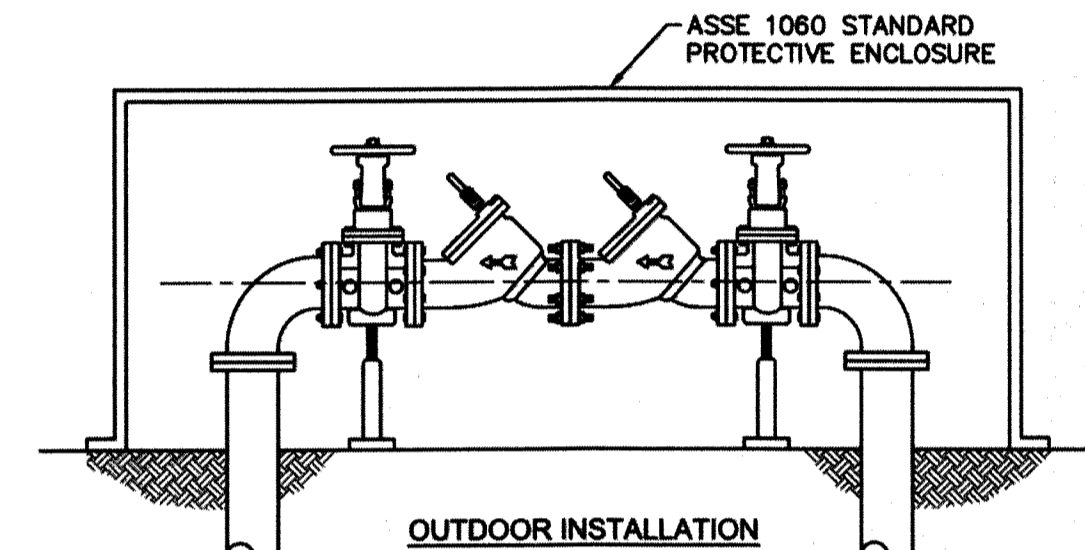
WD-12 REDUCED PRESSURE PRINCIPLE ASSEMBLY
NOT TO SCALE



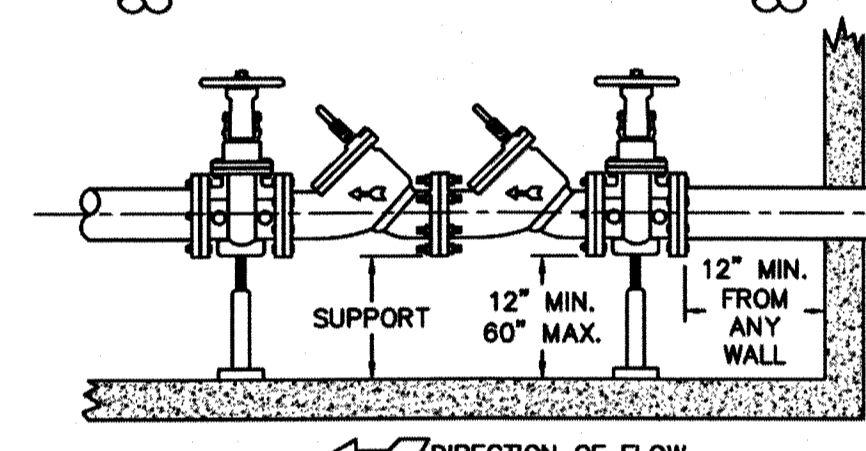
- NOTES:**
- ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
 - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: McDONALD 3800, FORD S90 (DOUBLE STRAP) OR EQUIVALENT.
 - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (LOCKCASTLE PRECAST MODEL B1730 OR APPROVED EQUIVALENT).
 - METER BOXES SUSCEPTIBLE TO INCIDENTAL, NON-DELIBERATE TRAFFIC SHALL CONFORM TO ANS/SC1E 77 TIER 15 LOAD RATING STANDARDS (SYNERTECH MODEL DUO 17x30 OR APPROVED EQUIVALENT).
 - NON-TRAFFIC METER BOXES SHALL BE SIGMA MB2203 OR APPROVED EQUIVALENT.
 - 3\"/>

FOR 1-1/2\"/>

WD-11 LARGE METER
NOT TO SCALE



OUTDOOR INSTALLATION



INDOOR INSTALLATION

- NOTE:**
- MUST BE MIN. 36\"/>

WD-7 DOUBLE CHECK VALVE ASSEMBLY
NOT TO SCALE

- GENERAL NOTES:**
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
 - THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
 - THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
 - THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
 - THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPWA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

CFPWA WATER DISTRIBUTION SYSTEM

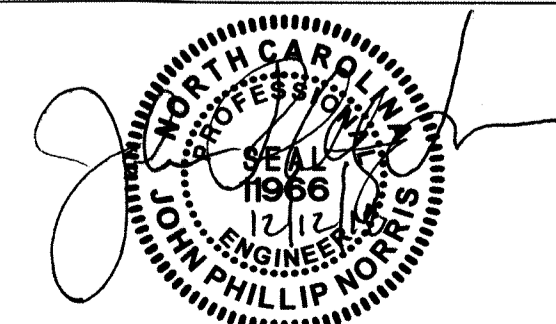
STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6580

DATE: 1/8/12
SCALE: N/A
DRAWN BY: CFPWA
CHECKED BY: CFPWA
PROJECT NO.:

SHEET NO:
WSD-1

| REV. | DESCRIPTION: | DATE: |
|------|---|----------|
| 1 | Single Service Connection, Double Service Connection, and Large Meter Revised | 10/26/12 |
| 2 | Single Service Connection and Fire Hydrant Details Revised | 7/23/13 |
| 3 | Fire Hydrant Detail Revised | 01/03/14 |
| 4 | Revised Fire Hydrant Assembly To Show 5\"/> | 04/10/15 |
| 5 | Revised Fire Hydrant Assembly To Show Full Dip Hydrant Leg | 01/19/16 |
| 6 | Revised Water Meter Vault and Large Meter Details, Added Standard Notes | 02/15/16 |



NORRIS & TUNSTALL

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ASH, NC 28420
PHONE (910) 287-5900

licence #C-3641

N&T PROJECT# 16092

ALL CONTRACTORS AND SUB-CONTRACTORS SUBMITTING BIDS ON THIS PROJECT SHALL BE REQUIRED TO RECEIVE THE ENTIRE SET OF DRAWINGS. BROKEN SETS ARE NOT ALLOWED FOR BIDDING PURPOSES.
UNDER NO CIRCUMSTANCES ARE THE DRAWINGS TO BE SCALED !!

DETAILS

ALOFT
COASTLINE HOTEL

SHEET

C5.1

QUALITY FIRST

isomham
DESIGN GROUP, PA
Architecture · Planning
1309 Collegiate Drive, Wilkesboro, NC 28687 · www.isomham.com

NORTH CAROLINA

WILMINGTON

| DATE | REVISIONS |
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DRAWN BY: EDB
APPROVED: JPN
PROJ. #: 16092
DATE: 12/12/18