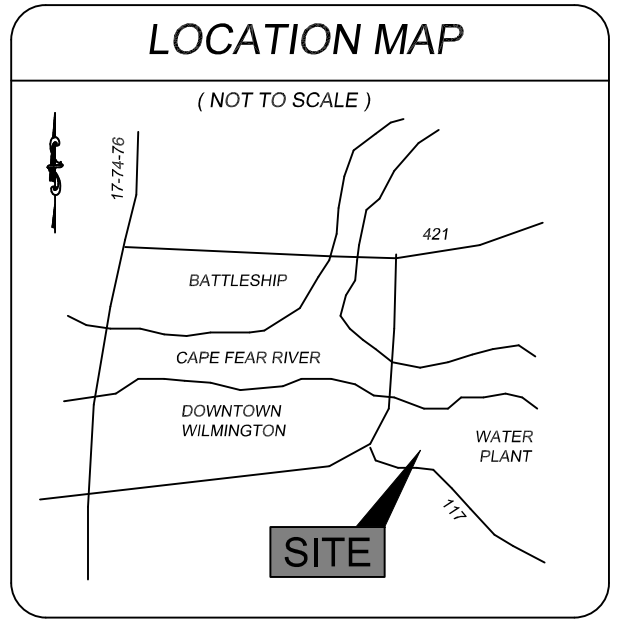


# OFF THE HOOK YACHT SALES

BOAT REPAIR BUILDING  
1701 N. 5TH AVE  
WILMINGTON, NC



LOCATED IN THE CITY OF WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA  
DESCRIPTION OF WORK: GRADING, PAVING, DRAINAGE, AND UTILITIES

OWNER: OTH REALTY LLC  
1701 N J.E.L. WADE DR.  
WILMINGTON N.C. 28401

## LEGEND

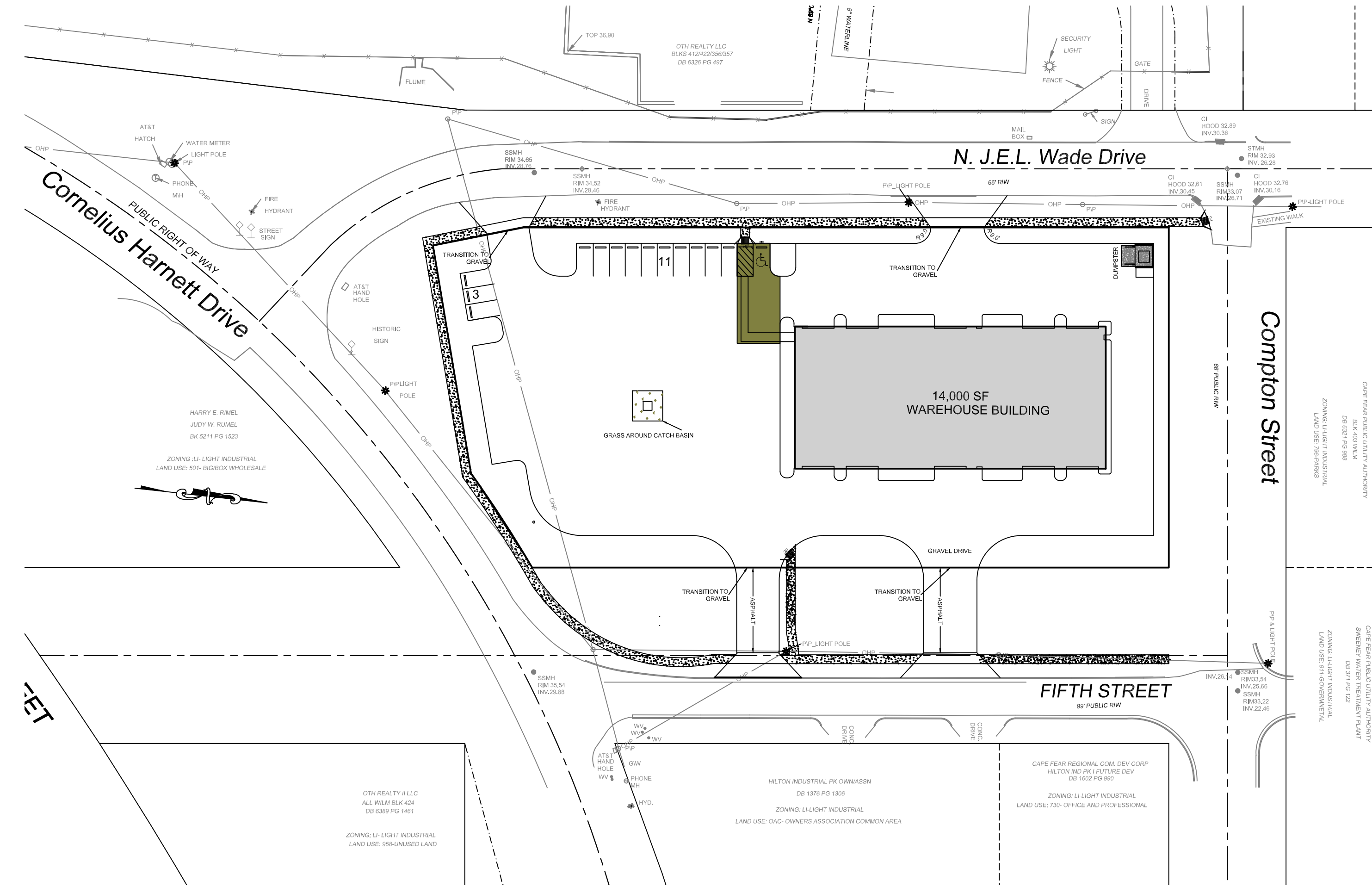
- WV = WATER VALVE
- WM = WATER METER
- C/O = SANITARY SEWER CLEAN OUT
- INV. = INVERT
- B/O = BLOW OFF ASSEMBLY
- BFP = BACK FLOW PREVENTOR
- GW = GUY WIRE
- SWMH = STORM MANHOLE
- GT. = GREASE TRAP
- FH = FIRE HYDRANT ASSEMBLY
- I.S. = IRON SET
- CR = CURB RAMP
- = SANITARY SEWER MH
- = CURB INLET
- ⊗ = TREE TO BE PRESERVED
- ⊗ = TREE TO BE REMOVED
- W = WATER SERVICE
- ⊗ = SEWER CLEANOUT
- ⊗ = WATER VALVE
- ⊗ = SIGN LOCATION
- LP = LIGHT POLE
- PROPERTY LINE
- BUILDING SETBACK
- CENTERLINE
- EASEMENT
- COMPUTED PROPERTY LINE
- LIMITS OF DISTURBANCE/PROJECT LIMITS
- PROPOSED STORM DRAIN
- PROPOSED SANITARY SEWER
- WETLAND
- PROPOSED SIDEWALK
- HANDICAP CROSSING

STABILIZATION TIME FRAMES:	
SITE AREA DESCRIPTION	STABILIZATION
Perimeter dikes, swales, ditches and slopes	7 DAYS
High Quality Water (HQW) Zones	7 DAYS
Slopes steeper than 3:1	7 DAYS
Slopes 3:1 or flatter	14 DAYS
All other areas with slopes flatter than 4:1	14 DAYS

**NOTE WELL:**  
ANY AREAS ON-SITE WITHOUT ACTIVITY SHALL BE STABILIZED WITHIN 15 WORKING DAYS OR 21 CALENDAR DAYS AND AS ABOVE. ALL SLOPES MUST BE STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY ACTIVITY.

DETAILS SHOWN ARE TYPICAL OF INSTALLATIONS REQUIRED BY THE TOWN AND COUNTY. THIS SHEET DOES NOT PURPORT TO SHOW ALL REQUIRED CONSTRUCTION DETAILS, BUT FURTHER SERVES AS A GUIDE. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL CITY, COUNTY AND STATE CODES AND CONSTRUCTION STANDARDS.

No geotechnical testing has been performed on site. No warranty is made for suitability of subgrade, and undercut and any required replacement with suitable material shall be the responsibility of the contractor.



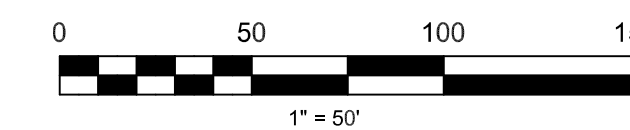
## GENERAL NOTES:

- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NO ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
- ALL TREES WHICH ARE NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL BE PRESERVED WHEREVER POSSIBLE UNLESS OTHERWISE DIRECTED.
- CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE AND CURB BOXES TO THE FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. PARKING AREAS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER.
- NO GEOTECHNICAL TESTING HAS BEEN PERFORMED ON SITE. NO WARRANTY IS MADE FOR SUITABILITY OF SUBGRADE, AND UNDERCUT AND ANY REQUIRED REPLACEMENT WITH SUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR RESPONSIBLE FOR GEOTECHNICAL TESTING AS NECESSARY.
- EXTREME CARE SHALL BE TAKEN TO ENSURE MINIMUM SEPARATIONS AT ALL UTILITY CROSSINGS.
- CONTRACTOR TO ENSURE THAT STREET PAVEMENT IS PLACED SO AS TO DRAIN POSITIVELY TO THE ROADWAY INLETS AND CATCH BASINS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
- THIS PLAN IS FOR SITE UTILITIES, GRADING, ROADWORK, AND DRAINAGE ONLY.
- AFFECTED NON-MUNICIPAL UTILITIES SHALL BE CONTACTED AND PROVIDED WITH PLANS AND OTHER PERTINENT INFORMATION, WHEN FEASIBLE, TO COORDINATE APPROPRIATE SCHEDULING AND PLACEMENT. AT THE MINIMUM THIS SHOULD INCLUDE AT&T AND DUKE (PROGRESS) ENERGY.
- ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND ALL APPLICABLE STATE & LOCAL CODES.
- CONTRACTOR TO COORDINATE ANY REQUIRED TRAFFIC CONTROL WITH THE STATE AND CITY. CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL REQUIRED PERMITS.
- CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE TO RECEIVING STRUCTURES. ALL STORM WATER RUNOFF FROM BUILT UPON AREAS (i.e. IMPERVIOUS SURFACES AND ROOF DRAINAGE) TO BE DIRECTED TO STORM SEWER COLLECTION SYSTEM (i.e. STORM INLETS OR POND) BY SWALES, OVERLAND FLOW, ADDITIONAL GRADING, OR LANDSCAPING INLETS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, REALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.
- CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURBS, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES, STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED.
- ALL SIGNS AND PAVEMENT MARKINGS SHALL MEET NCDOT AND MUTCD STANDARDS.
- SANITARY SERVICES SMALLER THAN 8" SHALL HAVE CLEANOUTS AT INTERVALS OF NOT MORE THAN 100'. CLEANOUTS SHALL BE PROVIDED FOR SERVICE LINES AND BUILDING DRAINS THAT HAVE HORIZONTAL DIRECTION CHANGES GREATER THAN 45 DEGREES.
- SEE 2018 IPC FOR FURTHER GUIDANCE ON UTILITY SERVICE REQUIREMENTS.
- 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.

- This map is not for conveyance, recordation, or sales.
- A portion of this property is located within in the 0.2% SFHA according to Flood Insurance Rate Map Community ID# 3720314500 suffix K effective date 8/28/2018
- This property is zoned CB-COMMUNITY BUSINESS, City of Wilmington.
- Water service to be CFPUA (public).
- Sewer service to be CFPUA (public).
- Topographic data furnished by Bateman Civil Survey Company.
- No Wetlands exist on site.

INDEX TO DRAWINGS	
SHEET No.	DESCRIPTION
1 OF 11	COVER SHEET
2 OF 11	GENERAL NOTES & DETAILS
3 OF 11	GENERAL NOTES & DETAILS
4 OF 11	GENERAL NOTES & DETAILS
5 OF 11	CFPUA DETAILS
6 OF 11	CFPUA DETAILS
7 OF 11	EXISTING CONDITIONS & TREE SURVEY
8 OF 11	SITE PLAN
9 OF 11	GRADING PLAN
10 OF 11	STORM PROFILES
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1 OF 2	INFILTRATION CHAMBER DETAILS
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EC-1	EROSION AND DRAINAGE
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EC-3	EROSION CONTROL AND DRAINAGE
EC-4	EROSION CONTROL AND DRAINAGE
L1	LANDSCAPE PLAN

**PARKING**  
MINIMUM PARKING REQUIRED (1 PER 1000 SF OF BLDG.) 14 SPACES  
MAXIMUM PARKING ALLOWED - NO MAXIMUM STATED  
TOTAL PARKING SHOWN 14 TOTAL SPACES  
ALL PARKING AND DRIVEWAY STRIPING TO COMPLY WITH CURRENT CITY STANDARDS  
ACCESSIBLE PARKING REQUIRED: 1 PER 25  
ACCESSIBLE PARKING PROVIDED: 1  
BICYCLE PARKING REQUIRED: 5  
BICYCLE PARKING PROVIDED: 5



REV. NO.	REVISIONS	DATE
7	REVISED PARKING AREA	5/16/2023
6	UPDATE TO PLAN PER CFPUA COMMENTS	1/23/2022
5	ADDED EXISTING UTILITY	11-30-2022
4	UPDATED ADDRESS	10-4-2022
3	REVISED ITRC COMMENTS	4-21-2022
2	REVISED ITRC COMMENTS	4-05-2022
1	REVISED ITRC COMMENTS	2-03-2022

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## PRELIMINARY PLAN

<b>SITE PLAN</b> <b>OFF THE HOOK YACHT SALES</b> <b>N.E. CAPE FEAR RIVER FACILITY</b> CAPE FEAR TOWNSHIP, NEW HANOVER COUNTY, NORTH CAROLINA		1701 N. 5TH AVE WILMINGTON, NC	Date: <b>5-5-2022</b> Scale: HORIZ.: 1" = 50' Drawn: <b>GW</b> Checked: <b>AHG</b> Project No.: <b>4372</b>
OWNER: <b>OTH REALTY LLC</b> 1701 N J.E.L. WADE DR. WILMINGTON N.C. 28401		Sheet No.: <b>1</b> Of: <b>11</b>	
HANOVER DESIGN SERVICES, P.A. LAND SURVEYORS, ENGINEERS & LAND PLANNERS 1123 CLARK PLAZA WILMINGTON, N.C. 28403 PHONE: 910.343.9002 LICENSE # C-5997			



**CITY STANDARD NOTES:**

- PROTECT ALL EXISTING UTILITIES PRIOR TO 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.
- 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.
- 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 INSTRUCTION ON TREE PROTECTION METHODS.

**TRAFFIC ENGINEERING**

- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY, MUTCD, 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 AND 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.
- CONTACT 811 PRIOR TO ANY EXCAVATION. CALL TRAFFIC ENGINEERING AT 341-7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. IN CERTAIN CASES ENTIRE RESURFACING OF THE OPEN CUT AREA MAY BE REQUIRED.
- ANY BROKEN OR MISSING SIDEWALK, DRIVEWAY PANELS OR CURBING SHALL BE REPLACED WHETHER DAMAGED DURING CONSTRUCTION OR DAMAGE WAS EXISTING.
- PRIOR TO ENTERING ANY AGREEMENT REGARDING THE SALE OF A HOUSE OR LOT IN A SUBDIVISION, THE BUYER MUST RECEIVE A STREET DISCLOSURE STATEMENT.
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30° TO 10°.
- CONTACT THE CITY AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS. PROPOSED APPROXIMATE LOCATIONS SHOWN ON PLANS.
- STREET LIGHTS SHALL BE DEF ENCLOSED CUTOFF (COBRA TYPE), HIGH PRESSURE SODIUM VAPOR (HPSV) OR DESIGNATED LED EQUIVALENT FIXTURE INSTALLED WITHIN THE RECOMMENDED RANGE OF MOUNTING HEIGHTS FOR THE SPECIFIC FIXTURE. THE STANDARD STREET LIGHT SHALL BE INSTALLED ON A FIBERGLASS POLE. SEE CITY TECHNICAL STANDARDS FOR FURTHER DETAIL.

**GENERAL UTILITY NOTES**

- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CPFAU) DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH CAPE FEAR PUBLIC UTILITY AUTHORITY CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
- IF THE CONTRACTOR DESIRES CPFAU WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CPFAU WATER SHALL COMPLY WITH CPFAU CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CPFAU WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFOOCHIR OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINES MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-8696.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO ANY DIGGING, CLEARING OR GRADING.
- ANY PVC MAINS ARE TO BE MARKED WITH NO. 10 INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND ATTACHED TO THE PIPE AND STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES AND FITTINGS, ACCESSIBLE IN ALL VALVE AND METER BOXES. ALL WATER MAINS SHALL MAINTAIN A MINIMUM OF 3' COVER.

**ADDITIONAL NOTES:**

- THIS MAP IS PRELIMINARY, NOT INTENDED FOR RECORDATION, SALES, OR CONVEYANCE.
- ALL DISTANCES AS SHOWN ARE HORIZONTAL.
- SEWER PROVIDED BY CPFAU
- WATER PROVIDED BY CPFAU
- SITE WILL MEET ALL ZONING REQUIREMENTS.
- REGULATED TREES ON SITE TO BE PRESERVED AS SHOWN.
- STRIPING AND LANES TO CITY STANDARDS (THERMOPLASTIC).
- NO VEHICULAR ACCESS TO SITE EXCEPT AS SHOWN.
- ALL UTILITIES UNDERGROUND.
- LANDSCAPING AND LIGHTING PLAN BY OTHERS.
- CONTRACTOR TO COORDINATE STAGING OF CONSTRUCTION ACTIVITIES WITH THE OWNER AND ARCHITECT TO FACILITATE ONGOING ADJOINING BUSINESS ACTIVITIES.
- CONTRACTOR TO COORDINATE REMOVAL AND RELOCATION OF LIGHTING AND OTHER NON-MUNICIPAL UTILITIES SUCH AS ELECTRICAL AND TELEPHONE CONNECTIONS WITH THE AFFECTED AGENCIES AND THE OWNER AND ARCHITECT.
- ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH CITY AND CPFAU TECHNICAL STANDARDS.

**ADDITIONAL ADA NOTES:**

- REFER TO 2018 NCDOT ROADWAY STANDARD DRAWINGS NUMBER 846.05-846.06 FOR RAMP DESIGN AND DETAILS.
- ALL RAMPS, RAMPS, HANDICAP PARKING, AND ACCESSIBLE ROUTES SHALL COMPLY WITH THE LATEST ADA GUIDELINES
- RUNNING SLOPES ALONG AN ACCESSIBLE ROUTE EXCEEDING 2% SHALL BE CONSIDERED A RAMP
- 8.33% (1:12) MAX RAMP SLOPE
- MAXIMUM CROSS SLOPE ALLOWED ALONG ACCESSIBLE ROUTES: 2.00%
- ALL CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.
- CONTRACTOR TO ENSURE SLOPES IN HANDICAP PARKING STALLS AND ACCESS ISLES DO NOT TO EXCEED 2% IN ANY DIRECTION.

**ADDITIONAL NOTES CONT.:**

- This property is not located within a special flood hazard area according to Flood Insurance Rate Map Community Panel #37203126J, effective date April 3, 2006.
- Handicap Ramps shall be provided at all intersections.
15. Suitable trees per acre are to be preserved or planted in accordance with City of Wilmington standards.
- Refuse collection by dumpster and private hauler.
- Reflectors shall be installed as Per City And NCDOT Standards.
- Per the requirements of the stormwater permit, the following shall occur prior to issuance of a certificate of occupancy or operation of the permitted facility.
  - \*As-built drawings for all stormwater management facilities shall be submitted to the city of Wilmington engineering division.
  - \*An engineer's certification shall also be submitted, along with all supporting documentation that specifies, under seal that the as-built stormwater measures, controls and devices are in compliance with the approved stormwater management plans.
  - \*A final inspection by city of Wilmington engineering personnel.
- All required easement maps shall be reviewed by city staff and recorded prior to issuance of a certificate of occupancy.

**UTILITY NOTES**

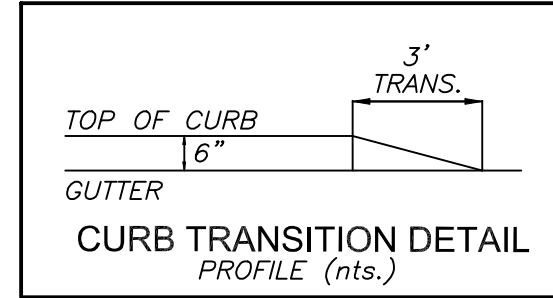
SEWER AND WATER TO BE PUBLIC AND PROVIDED BY CPFAU. SPECIFIC LOCATION, SIZING, AND DETAILS WILL BE PROVIDED ON THE CONSTRUCTION PLANS AND ARE TO BE APPROVED BY CPFAU AND CITY ENGINEERS.

- CPFAU STANDARD DETAIL SHEETS FOR SEWER AND WATER TAPS TO BE INCLUDED AS A PART OF THIS PLAN, ATTACHED.
- 48-HOUR NOTICE AND 3 COMPLETE SETS OF PLANS REQUIRED FOR PRE-CONSTRUCTION MEETING BY CONTRACTOR.
- NCDOT ENCROACHMENT REQUIRED FOR ANY WORK IN PUBLIC ROW.
- ALL FEES TO BE PAID PRIOR TO PRE-CONSTRUCTION MEETING.

**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 THE 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.

ADDITIONAL NOTES:  
CPFAU PERMIT REQUIRED FOR ANY UTILITY SERVICES WORK.  
CONTRACTOR RESPONSIBLE FOR PERMIT AND COORDINATION WITH CPFAU.  
ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH CITY AND CPFAU TECHNICAL STANDARDS.



**ADDITIONAL UTILITY/GRADING NOTES**

- CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE TO RECEIVING STRUCTURES. ALL STORM WATER RUNOFF FROM BUILT UPON AREAS (I.E. IMPERVIOUS SURFACES AND ROOF DRAINAGE) TO BE DIRECTED TO STORM SEWER COLLECTION SYSTEM (I.E. STORM INLETS OR PONDS) BY SWALES, OVERLAND FLOW, ADDITIONAL GRADING, OR LANDSCAPING INLETS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, REALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.
- CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURBS, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES, STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED.

- MINIMUM SEPARATION SHALL BE MAINTAINED AS FOLLOWS:
  - a. HORIZONTAL CLEARANCE OF 10 FEET BETWEEN SANITARY SEWER AND WATER MAINS.
  - b. HORIZONTAL CLEARANCE OF 10 FEET BETWEEN STORM SEWER AND WATER MAINS.
  - c. WHERE VERTICAL CLEARANCE IS LESS THAN 18" BETWEEN SANITARY SEWER AND WATER OR WHERE SEWER LINE CROSSES ABOVE WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.
  - d. WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.
  - e. WHERE VERTICAL CLEARANCE IS LESS THAN 10" BETWEEN WATER MAIN AND STORM DRAIN, WATER MAIN SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.
- SEE DETAIL SHEETS FOR TYPICAL UTILITIES HOOKUPS.

- ALL STREETS ARE PROPOSED TO BE PUBLIC (BUILT TO CITY OF WILMINGTON STANDARDS/ N.C.D.O.T. PAVEMENT AND SUBGRADE STANDARDS).
- ALL SANITARY SEWER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
- ALL WATER MAINS TO BE 8" UNLESS OTHERWISE INDICATED.
- TWO VALVES ARE REQUIRED AT "T" INTERSECTIONS AND ONE VALVE ON THE WATER LINE TO FIRE HYDRANTS.
- A BLOW-OFF VALVE IS REQUIRED AT THE TERMINUS OF ALL "DEAD END" WATER LINES.
- SANITARY SEWER, STORM, WATER, AND OTHER PERTINENT DETAILS/SPECIFICATIONS TO BE PROVIDED WITH CONSTRUCTION PLANS AND SHALL MEET OR EXCEED CITY AND CPFAU DESIGN STANDARDS

**ADDITIONAL FIRE DEPARTMENT NOTES:**

- HYDRANTS MUST BE WITHIN 150' OF THE FDC
- THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT
- LANDSCAPING MAY NOT BLOCK ANY FDC OR HYDRANT WITH A 3' CLEAR SPACE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC
- CONTRACTOR TO MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES DURING CONSTRUCTION
- HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB
- NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO BUILDING CONSTRUCTION
- ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
- ALL ISOLATION WALLS WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED. (IF SPRINKLER SYSTEM PRESENT)

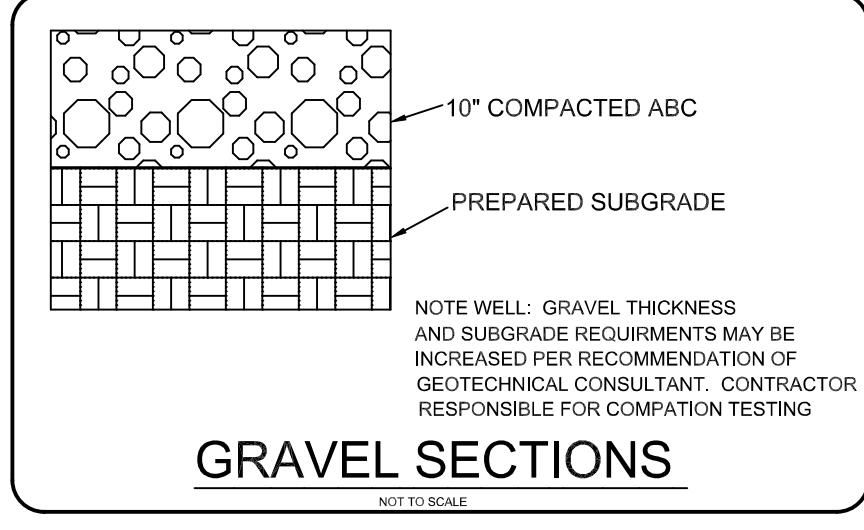
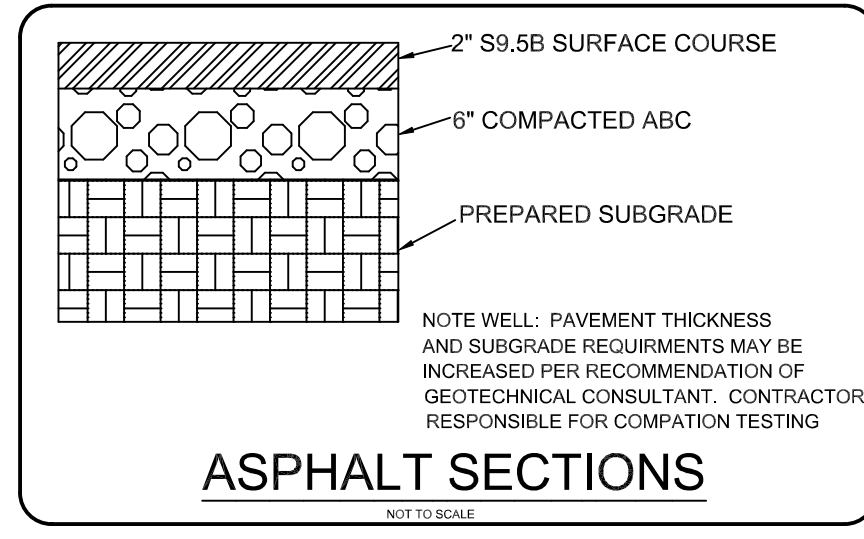
**ADA NOTES**

**i. LOCATION OF WHEELCHAIR RAMPS:**

- IN ACCORDANCE WITH THE RATIFIED HOUSE BILL 1296, ALL STREET CURBS IN NORTH CAROLINA BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1973 SHALL PROVIDE WHEEL CHAIR RAMPS FOR THE PHYSICALLY HANDICAPPED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER MAJOR POINTS OF PEDESTRIAN FLOW.
- WHEELCHAIR RAMPS SHOULD BE LOCATED AS INDICATED IN DETAIL DRAWINGS, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. MAY AFFECT PLACEMENT.

**ii. CONSTRUCTION NOTES:**

- NO SLOPE SHALL EXCEED 1"=1" (12:1) ON THE RAMP OR SIDEWALK.
- IN NO CASE SHALL THE WIDTH OF WHEELCHAIR RAMPS BE LESS THAN 40" (3'-4") WIDTHS MAY EXCEED 40" IF NECESSARY.
- USE CLASS "A" CONCRETE WITH THE SURFACE HAVING A ROUGH, NON-SKID TYPE FINISH.
- 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE WHEELCHAIR RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE.
- CONSTRUCTION METHODS SHALL CONFORM WITH THOSE OF THE GOVERNING BODY WHICH HAS JURISDICTION OF THE PARTICULAR STREET.
- THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE ESTABLISHED BY BISECTING THE INTERSECTION RADII WHERE MARKED (SEE NOTE 6).
- THE WHEELCHAIR RAMP SHALL BE LOCATED SO THAT THE BEGINNING OF THE WHEEL CHAIR RAMP WILL BE TWO FEET FROM THE INSIDE PEDESTRIAN CROSSWALK LINE.
- THE WIDTH OF THE PEDESTRIAN CROSSWALK SHALL BE 10 FEET UNLESS A GREATER WIDTH IS REQUIRED TO ACCOMMODATE THE PEDESTRIAN
- STOP BARS SHALL BE USED WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN, OR OTHER LEGAL REQUIREMENTS.
- PARKING SHALL BE ELIMINATED A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. THIS IS AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS, U.S GOVERNMENT



**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

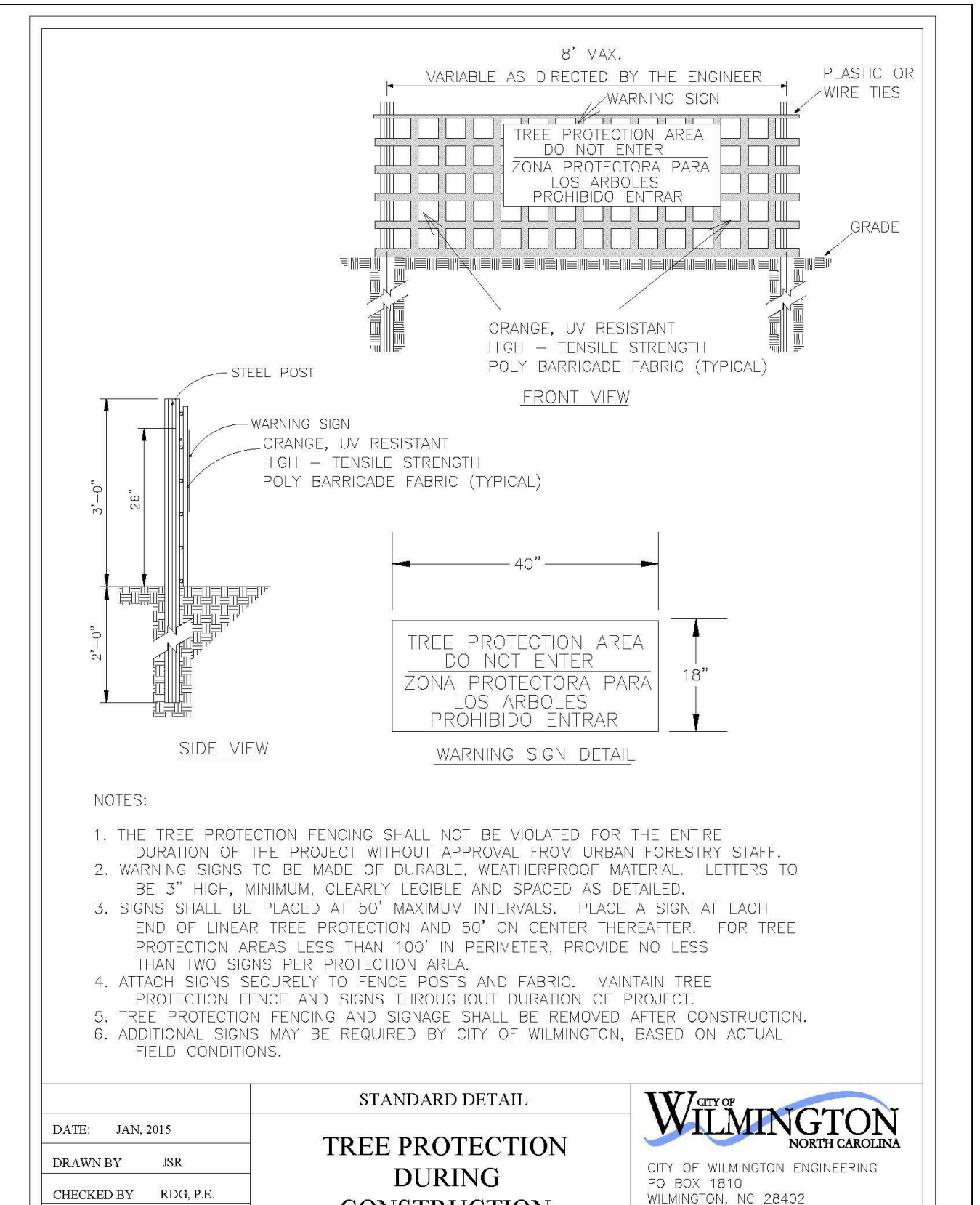
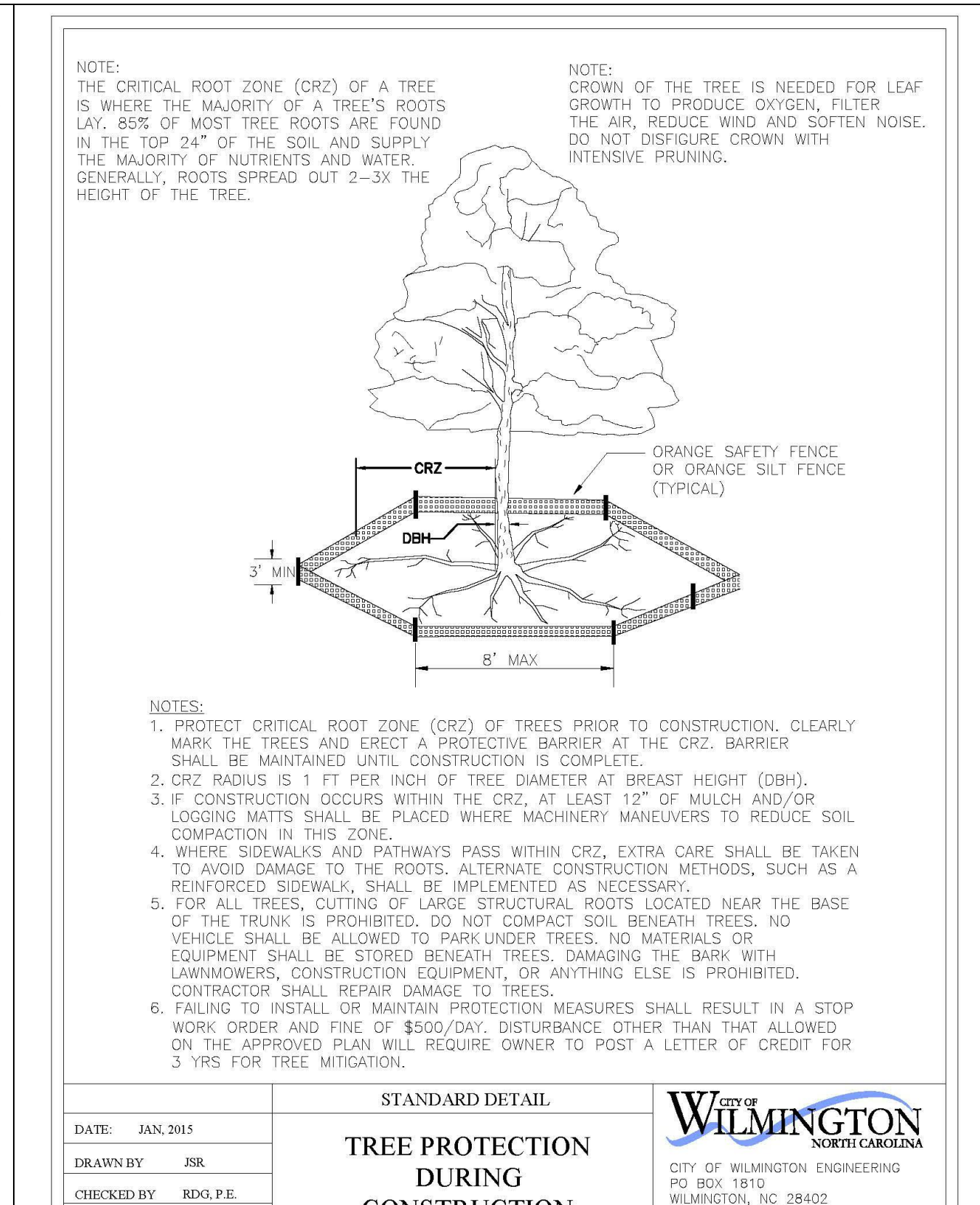
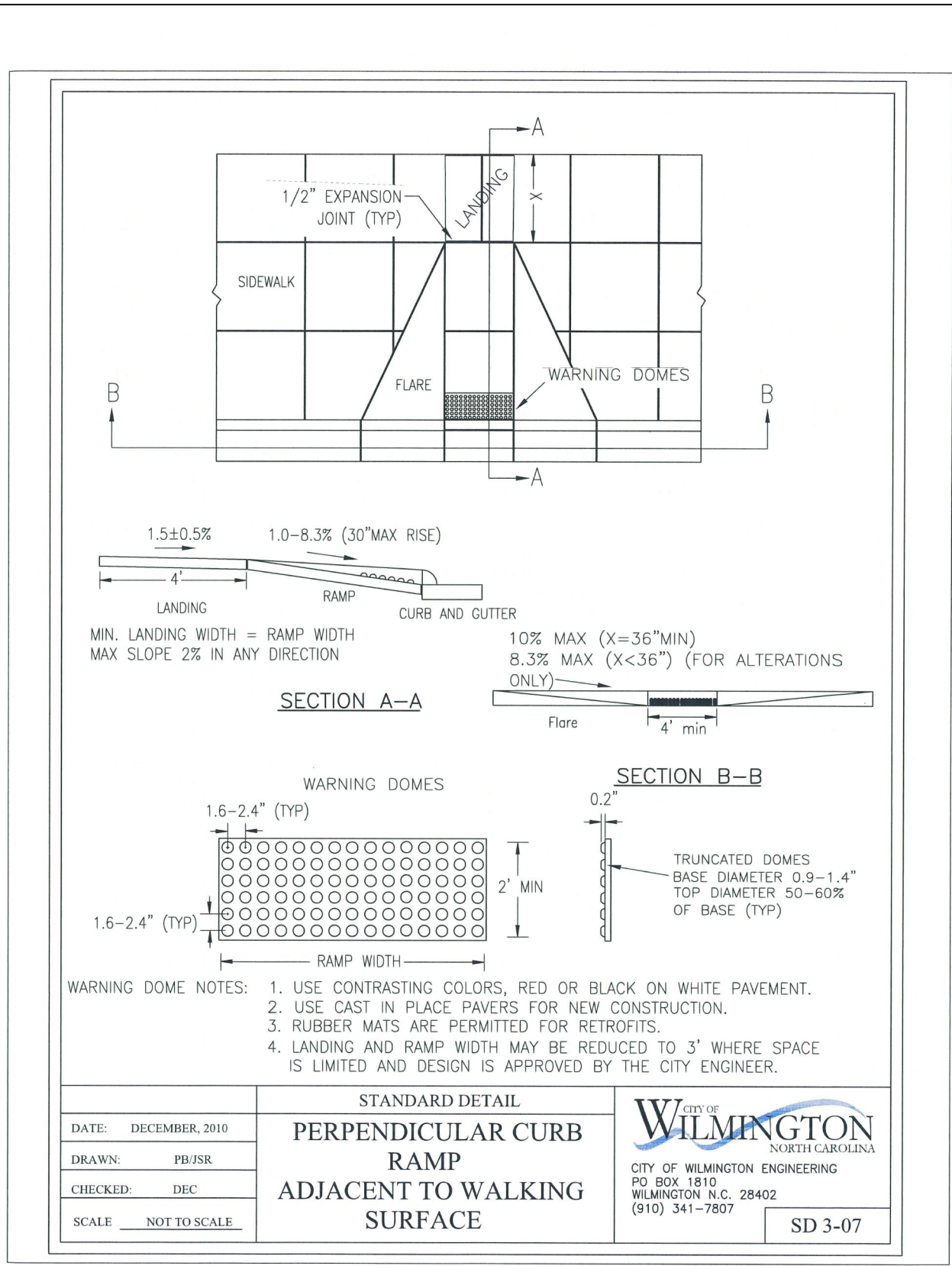
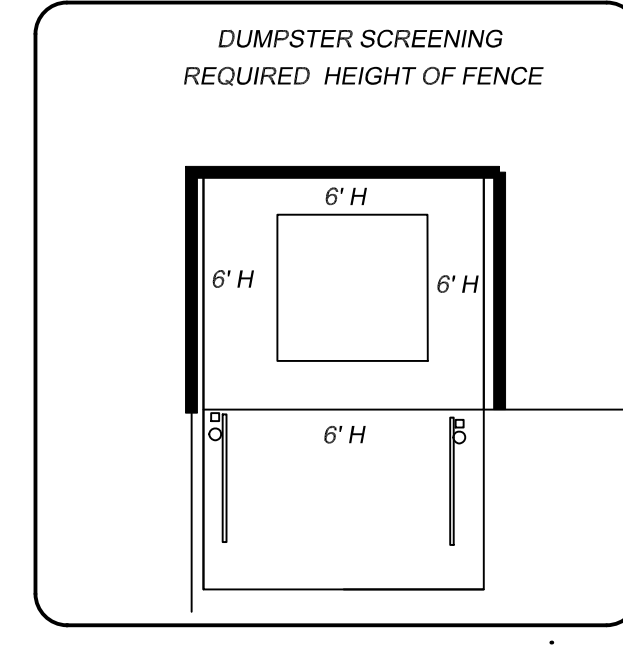
Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

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

**ADDITIONAL STORM WATER NOTES:**

- ALL STORM WATER RUNOFF FROM BUILT UPON AREAS (I.E. IMPERVIOUS SURFACES AND ROOF DRAINAGE) TO BE DIRECTED TO THE STORM SEWER COLLECTION SYSTEM (I.E. STORM INLETS OR PONDS) BY SWALES, OVERLAND FLOW, ADDITIONAL GRADING OR LANDSCAPE INLETS.
- CONTRACTOR TO ENSURE THAT STREET PAVEMENT AND CURBING IS PLACED TO DRAIN POSITIVELY TO CURB INLETS AND DRAINAGE STRUCTURES.
- FOR STORM PIPE MATERIAL AND INSTALLATION SEE DETAILS AND NCDOT STANDARD DRAWINGS 300.1 SHEETS 1-3
- ROOF DRAINS SHALL BE SIZED ACCORDING TO THE 2018 INTERNATIONAL PLUMBING CODE AND ALL SHALL CONFORM TO ANY LOCAL REQUIREMENTS
- ANY ROOF DRAIN LOCATIONS SHOWN HERE ARE APPROXIMATE AND MAY BE FIELD ADJUSTED AS LONG AS THE MINIMUM REQUIRED SLOPE IS MAINTAINED.



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

REVISIONS		DATE
3	REVISION 1: TRC COMMENTS	4-27-2022
2	REVISION 2: TRC COMMENTS	4-05-2022
1	REVISION 3: TRC COMMENTS	02-03-2022

**OFF THE HOOK YACHT SALES**  
N.E. CAPE FEAR RIVER FACILITY  
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER: OTH REALTY LLC  
1701 N. JELLY WADE DR.  
WILMINGTON N.C. 28401

Date: 5-5-2022  
Scale: HORZ. 1"= 20'  
Drawn: gw  
Checked: gw  
Project No: 4372

**TYPICAL DETAILS**

PRELIMINARY PLAN

Sheet No: 2 of 11

HANOVER DESIGN SERVICES, P.A.  
LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
WILMINGTON, N.C. 28403  
LICENSE # 00000002



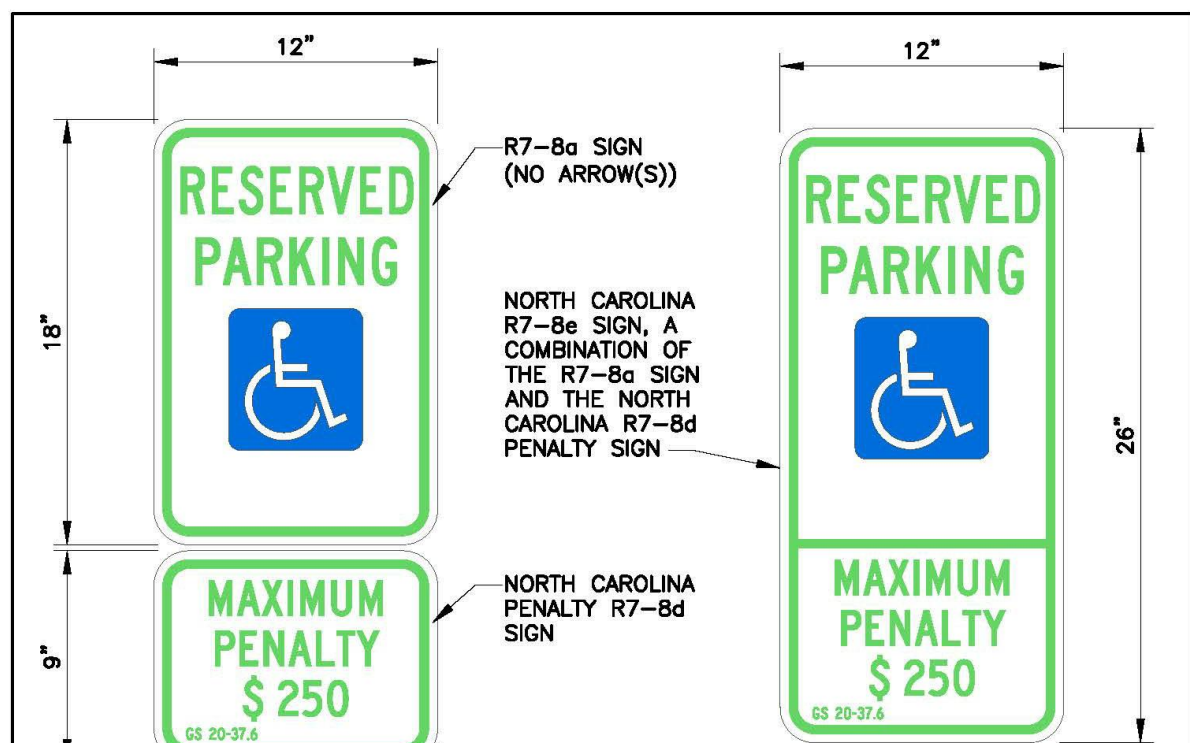


Figure A1.1  
Figure A1.2

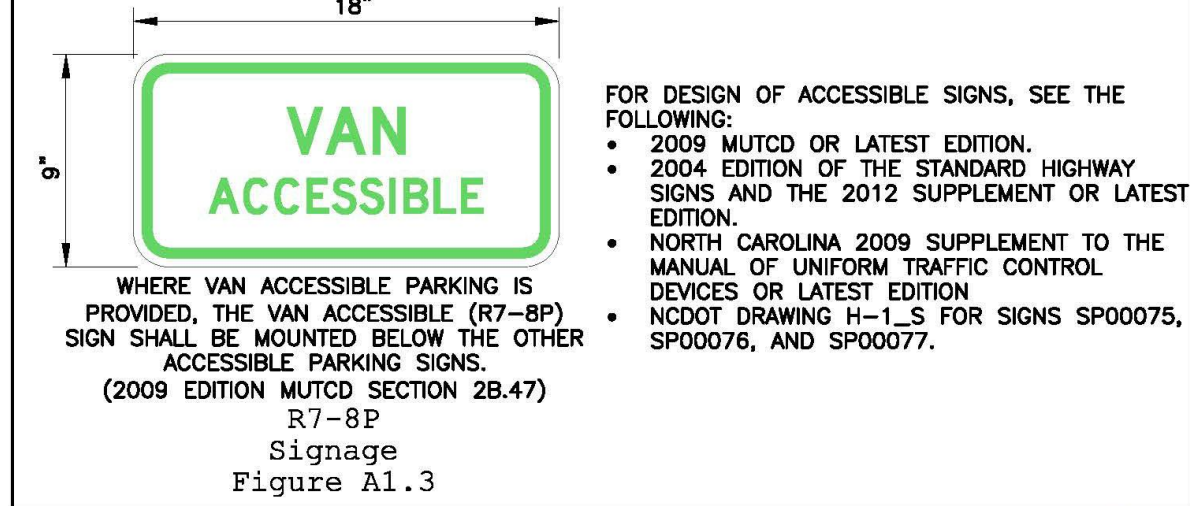


Figure A1.3

DATE: NOVEMBER 6, 2016	Revised: Accessible Parking Signs	WILMINGTON NORTH CAROLINA
DRAWN BY: DALE THOMPSON	CHECKED BY: RANDALL GLAZIER	DETAIL NO. 1 287-01
SCALE: NOT TO SCALE		

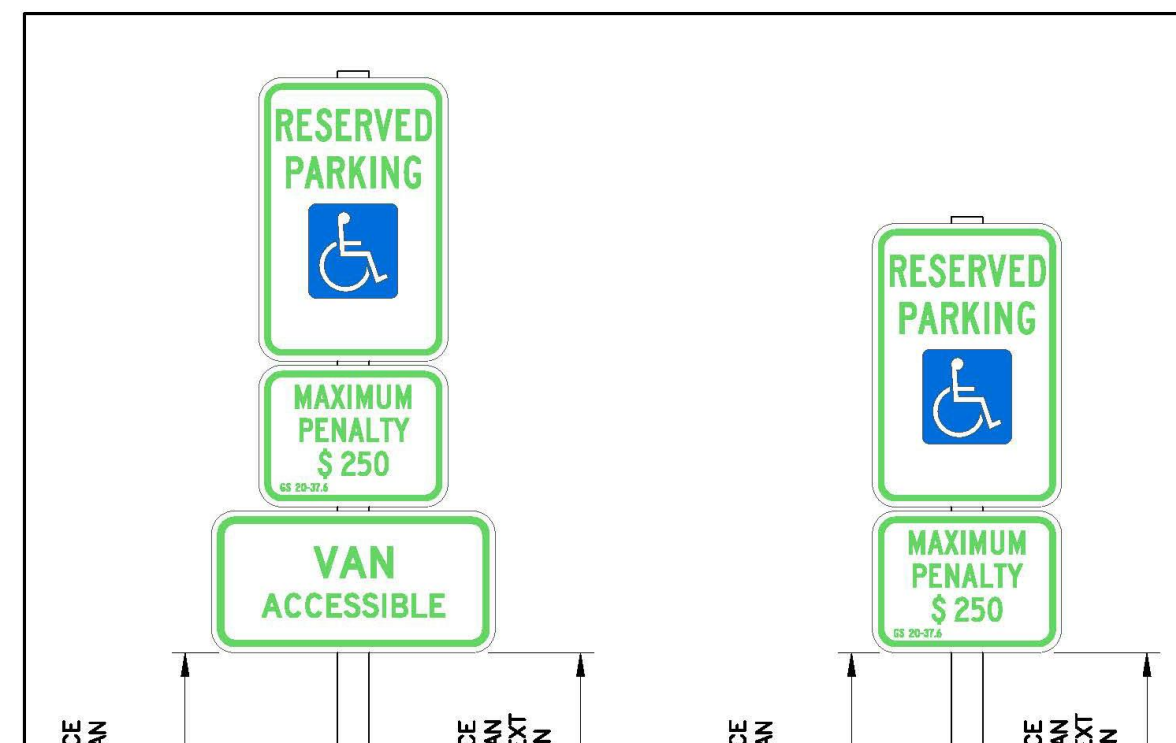
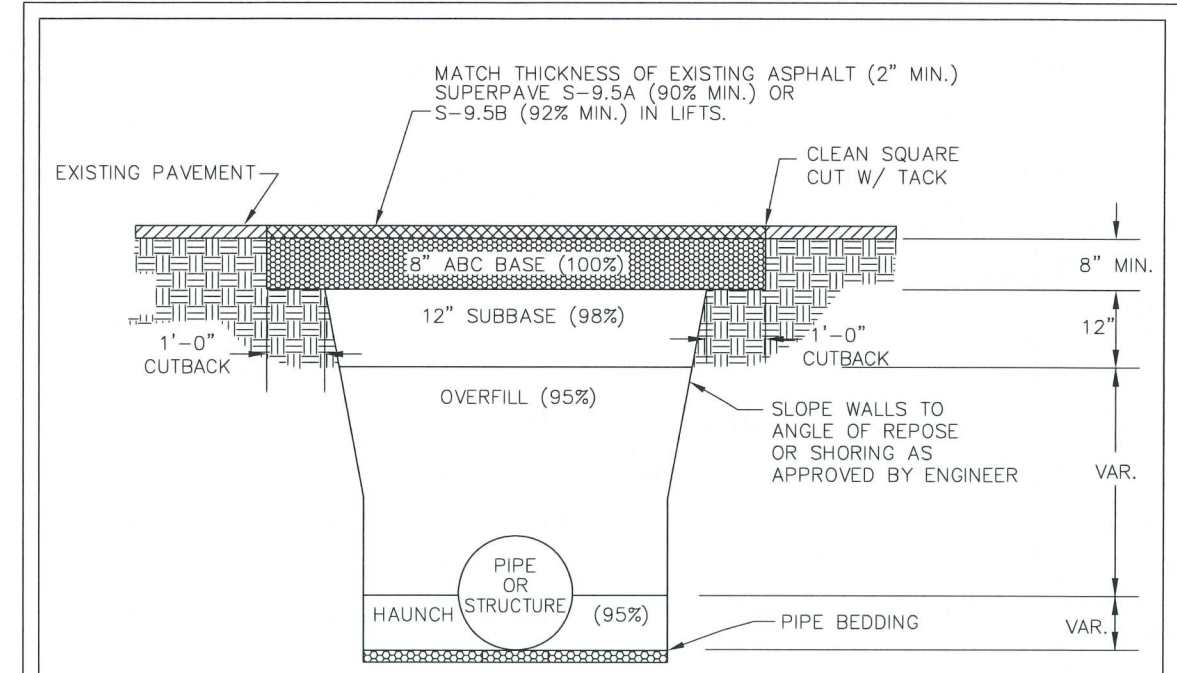


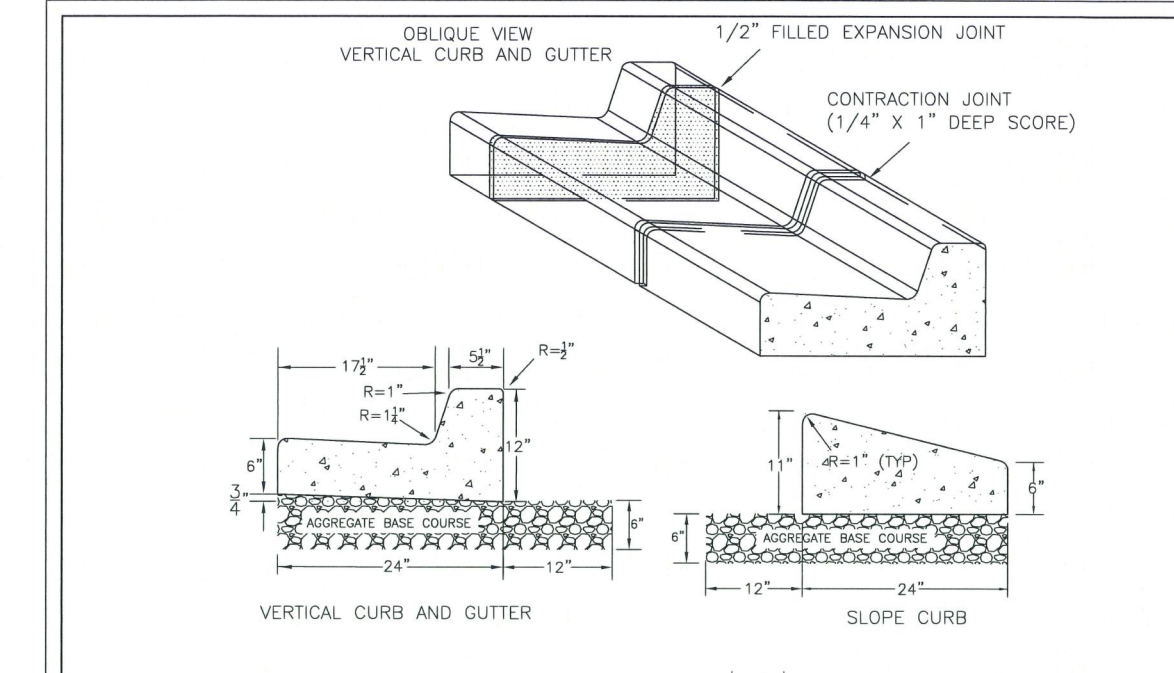
Figure A2.1

DATE: NOVEMBER 6, 2016	Revised: Accessible Parking Signs	WILMINGTON NORTH CAROLINA
DRAWN BY: DALE THOMPSON	CHECKED BY: RANDALL GLAZIER	DETAIL NO. 1 287-02
SCALE: NOT TO SCALE		



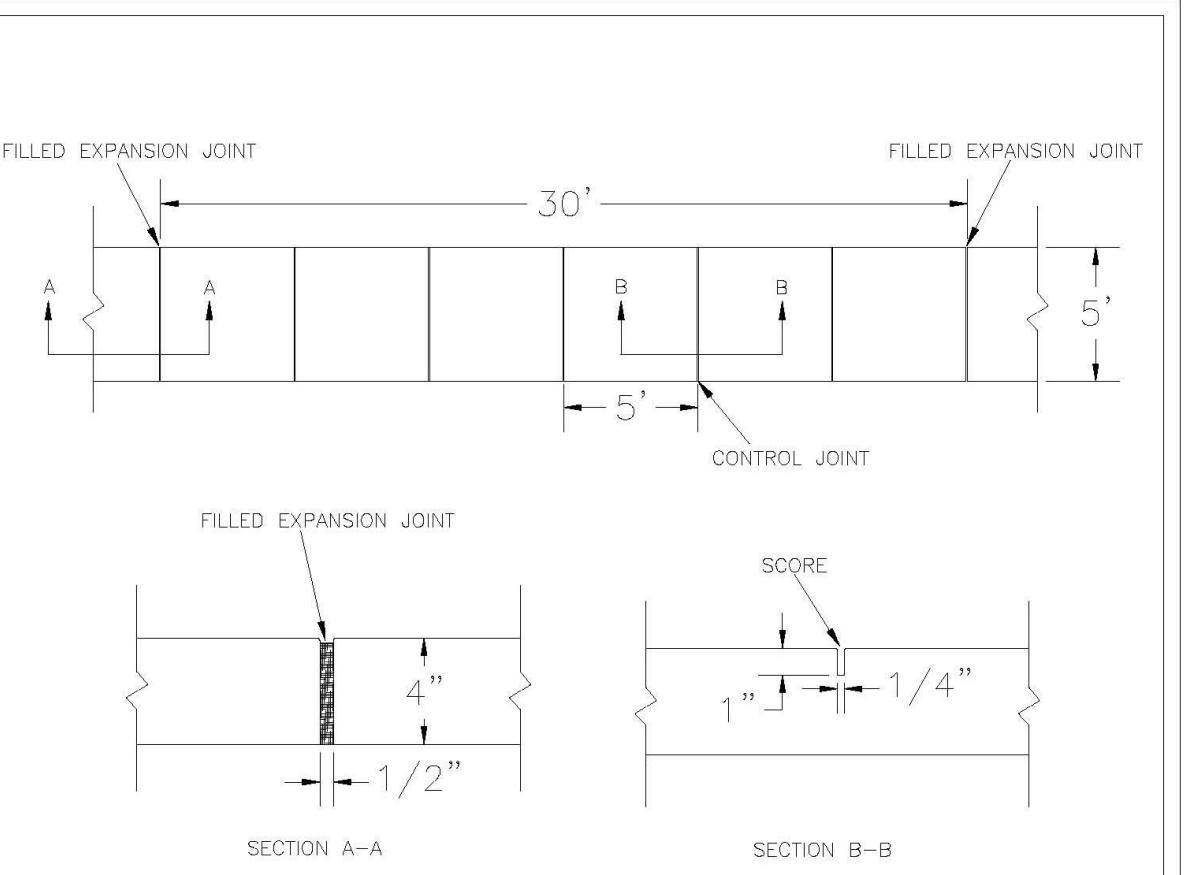
- NOTES:
- CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
  - FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
  - SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
  - SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
  - ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
  - COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS; AND ASTM D-698-C FOR ABC STONE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
  - CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

DATE: MAY, 2013	STANDARD DETAIL	WILMINGTON NORTH CAROLINA
DRAWN BY: JSR	PAVEMENT REPAIRS - UTILITY CUTS	CITY OF WILMINGTON ENGINEERING OFFICE
CHECKED BY: D.E.C., P.E.		172 OPERATIONS CENTER DRIVE
SCALE: NOT TO SCALE		WILMINGTON, N.C. 28412
		(910) 341-7807



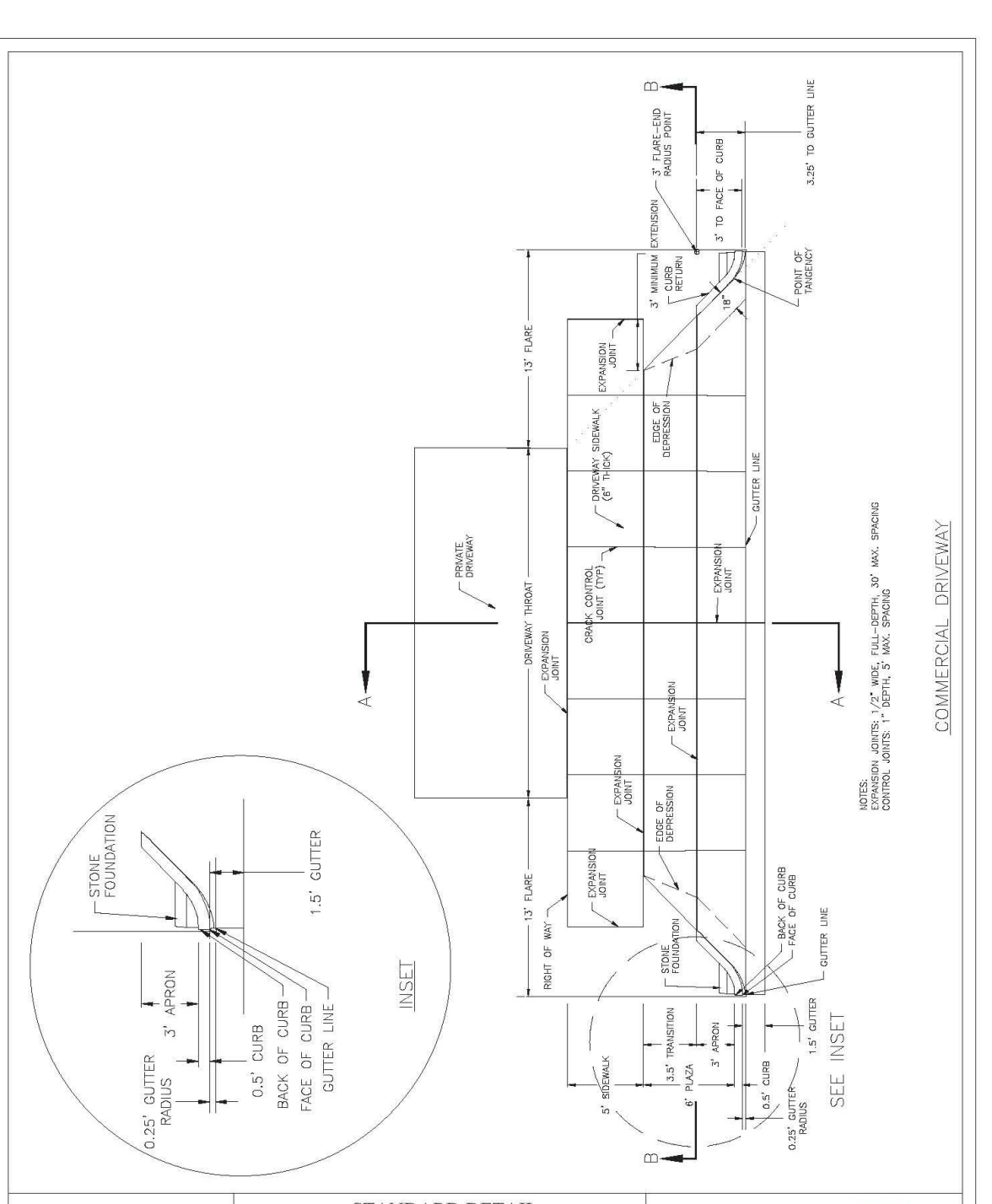
- NOTES:
- EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
  - 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING.
  - MINIMUM INSTALLATION LENGTH IS 5 FT.
  - CONCRETE TO BE 3000 PSI MIN.
  - VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE.

DATE: AUGUST, 2011	STANDARD DETAIL	WILMINGTON NORTH CAROLINA
DRAWN: PFR/SR	CURBING	CITY OF WILMINGTON ENGINEERING
CHECKED: DEC		PO BOX 1810
SCALE: NOT TO SCALE		WILMINGTON, N.C. 28402
		(910) 341-7807

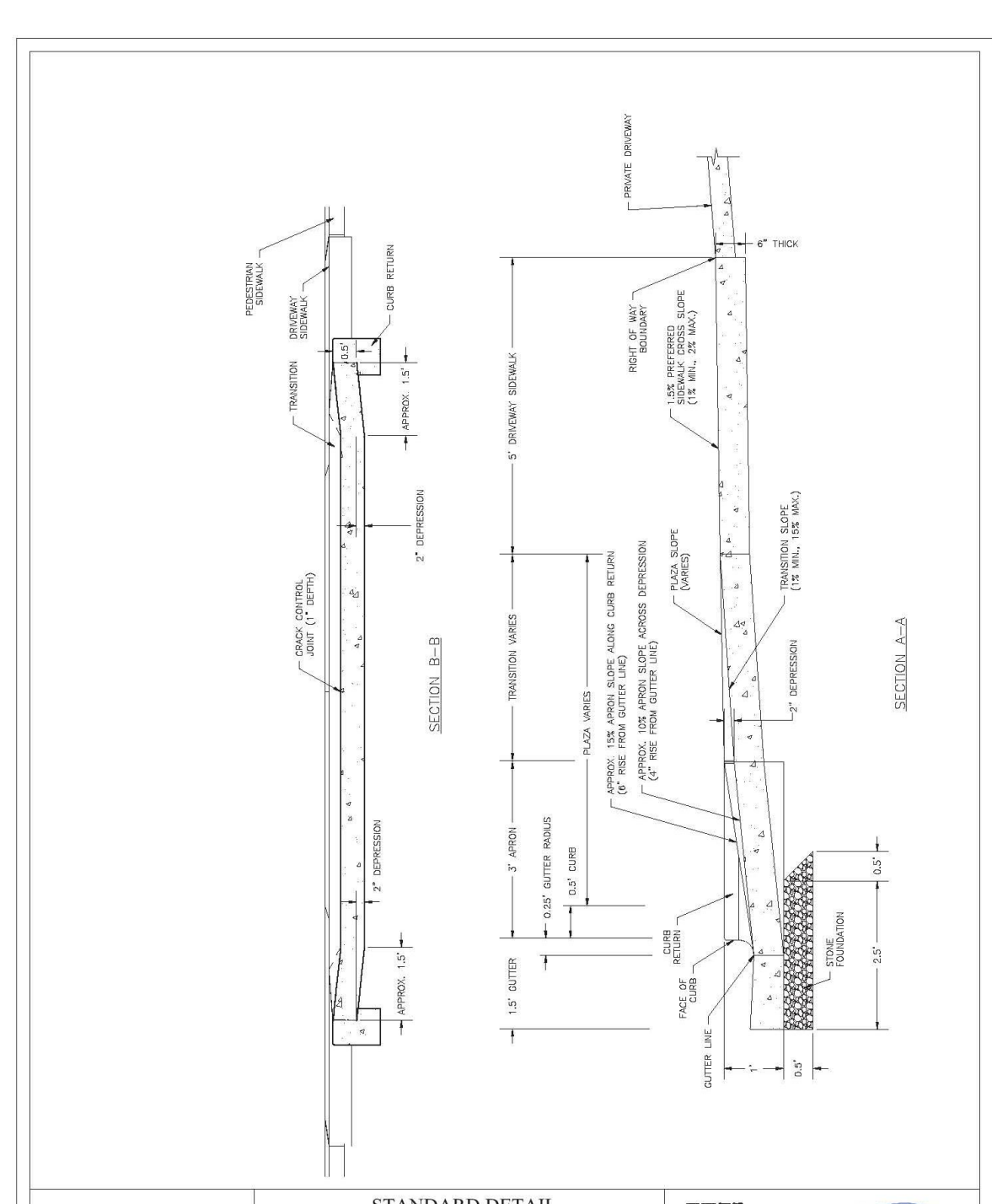


- NOTES:
- JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
  - SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
  - MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
  - CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION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

DATE: OCTOBER, 2010	STANDARD DETAIL	WILMINGTON NORTH CAROLINA
DRAWN: PFR/SR	SIDEWALK	CITY OF WILMINGTON ENGINEERING
CHECKED: DEC		PO BOX 1810
SCALE: NOT TO SCALE		WILMINGTON, N.C. 28402
		(910) 341-7807



DATE: FEB. 14, 2017	STANDARD DETAIL	WILMINGTON NORTH CAROLINA
DRAWN BY: JSR	COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB)	CITY OF WILMINGTON ENGINEERING
CHECKED BY: D.E.C., P.E.		PO BOX 1810
SCALE: NOT TO SCALE		WILMINGTON, N.C. 28402
		(910) 341-7807



DATE: FEB. 14, 2017	STANDARD DETAIL	WILMINGTON NORTH CAROLINA
DRAWN BY: JSR	COMMERCIAL DRIVEWAY SECTIONS (VERTICAL CURB)	CITY OF WILMINGTON ENGINEERING
CHECKED BY: D.E.C., P.E.		PO BOX 1810
SCALE: NOT TO SCALE		WILMINGTON, N.C. 28402
		(910) 341-7807

PRELIMINARY PLAN

REVISIONS	TIC COMMENTS	DATE
3		4-21-2022
2		4-05-2022
1		2-03-2022

OWNER: OTH REALTY LLC 1701 N. J. L. WADE DR. WILMINGTON, N.C. 28401
Date: 5-5-2022
Scale: HORZ: 1"=20'
Drawn: GW
Checked: GW
Project No: 4372

TYPICAL DETAILS

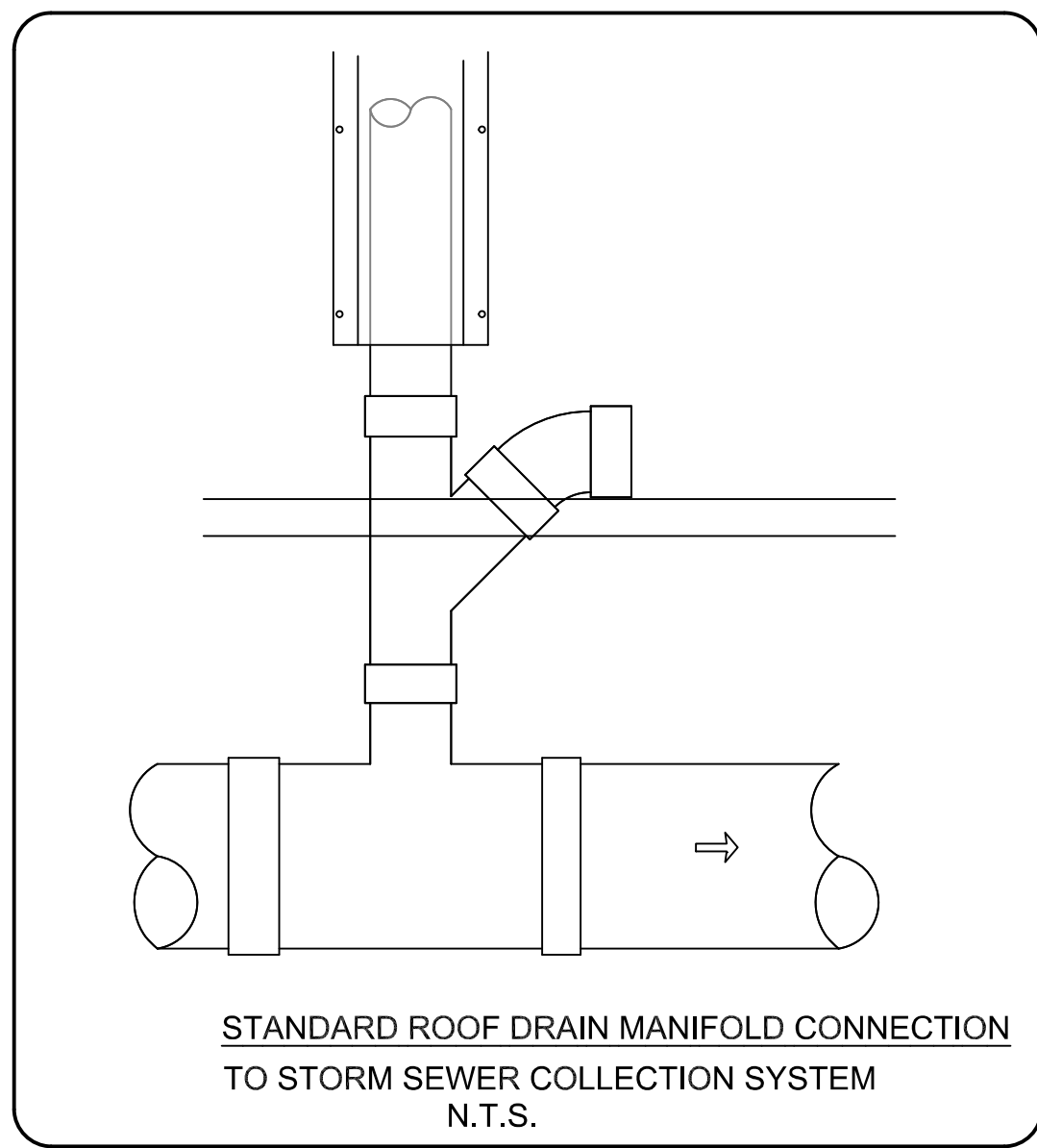
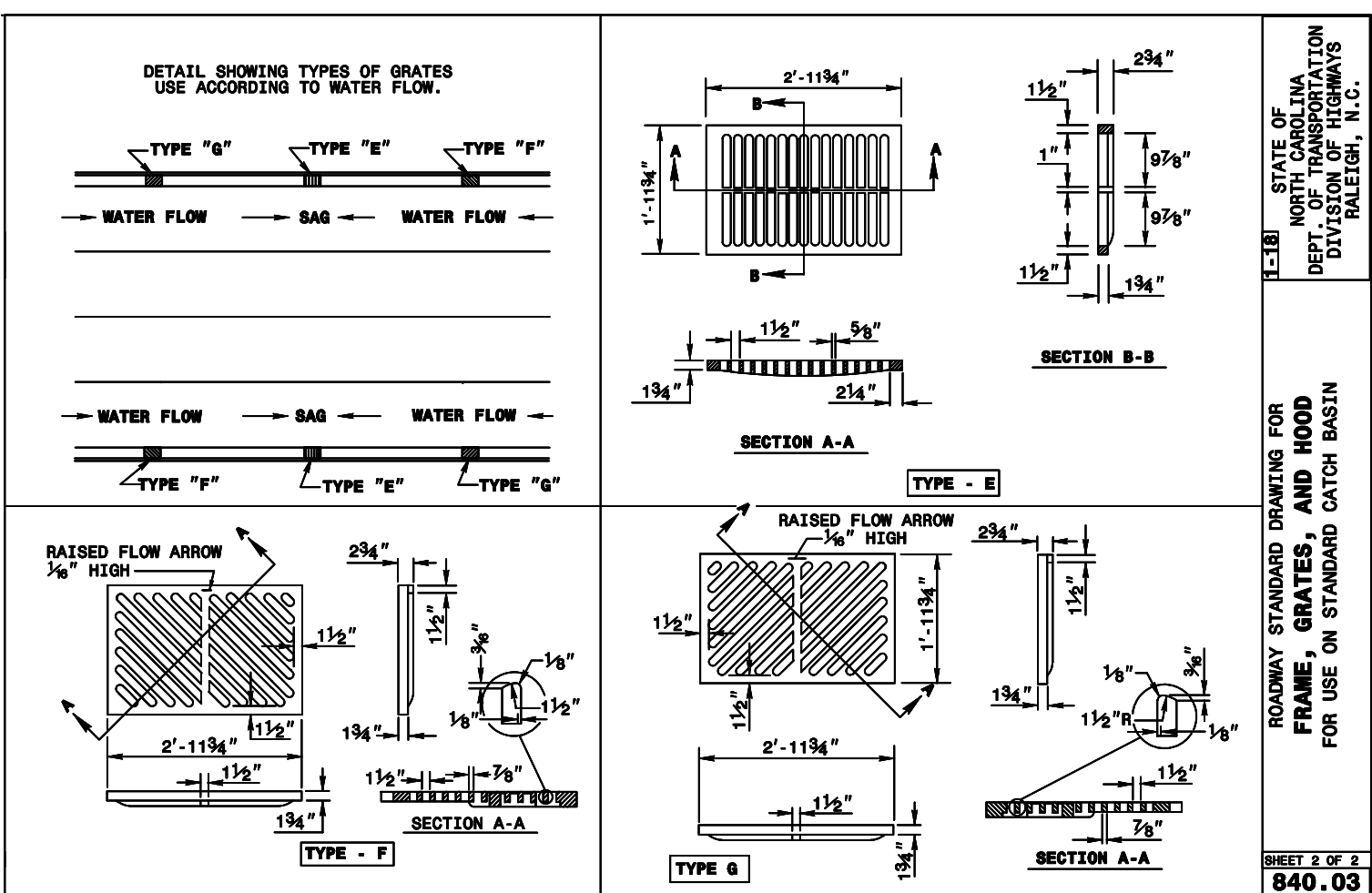
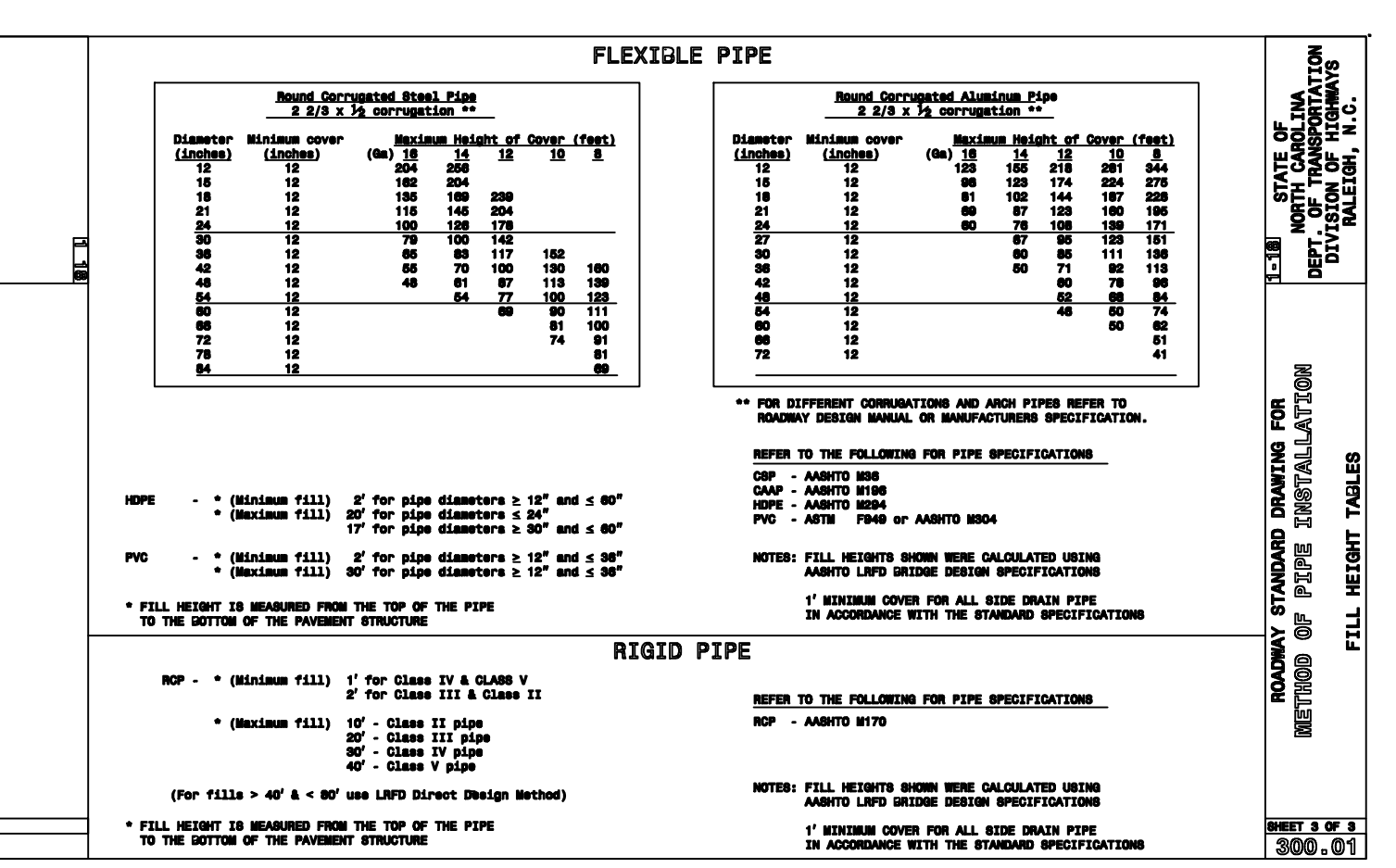
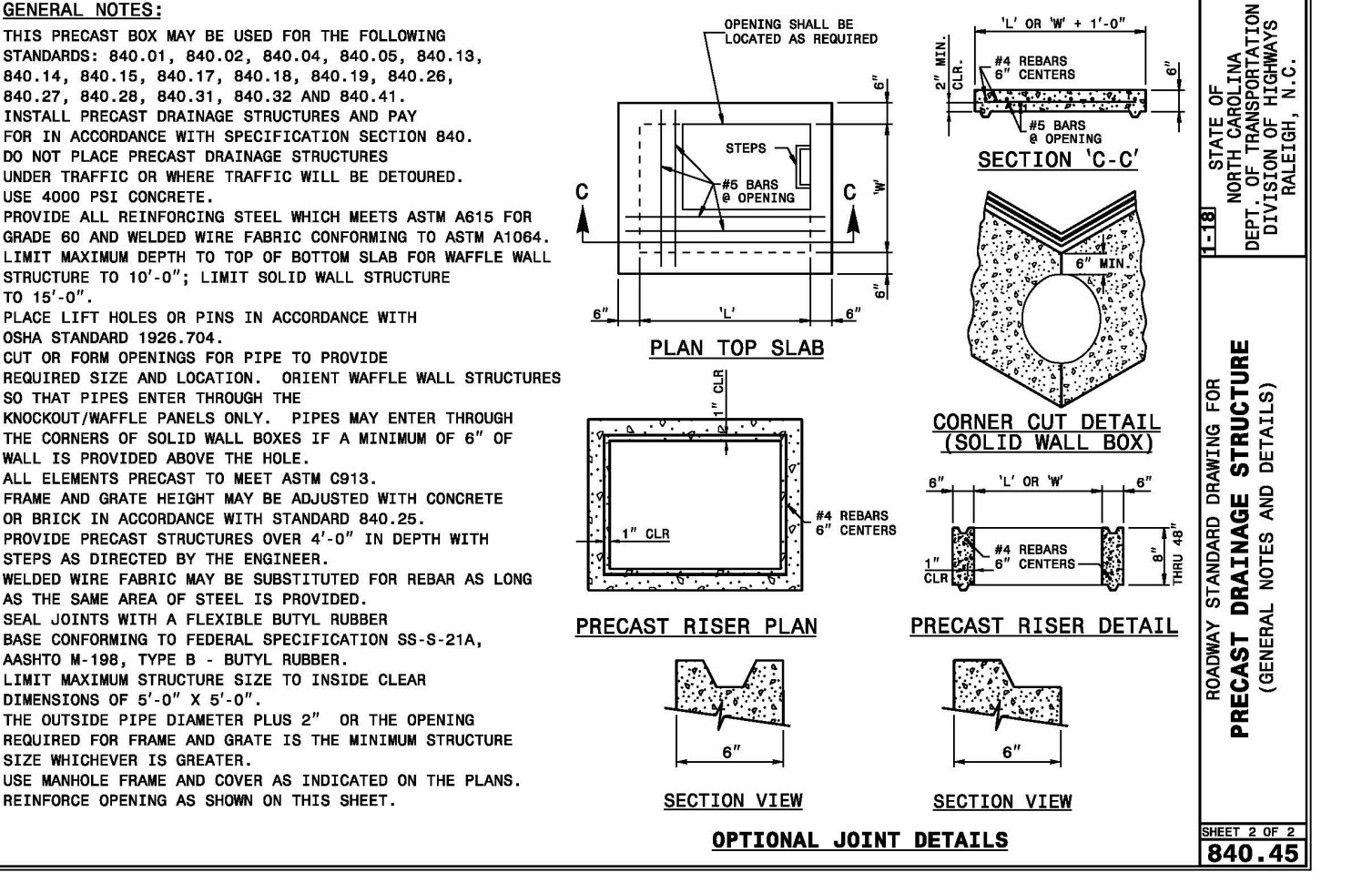
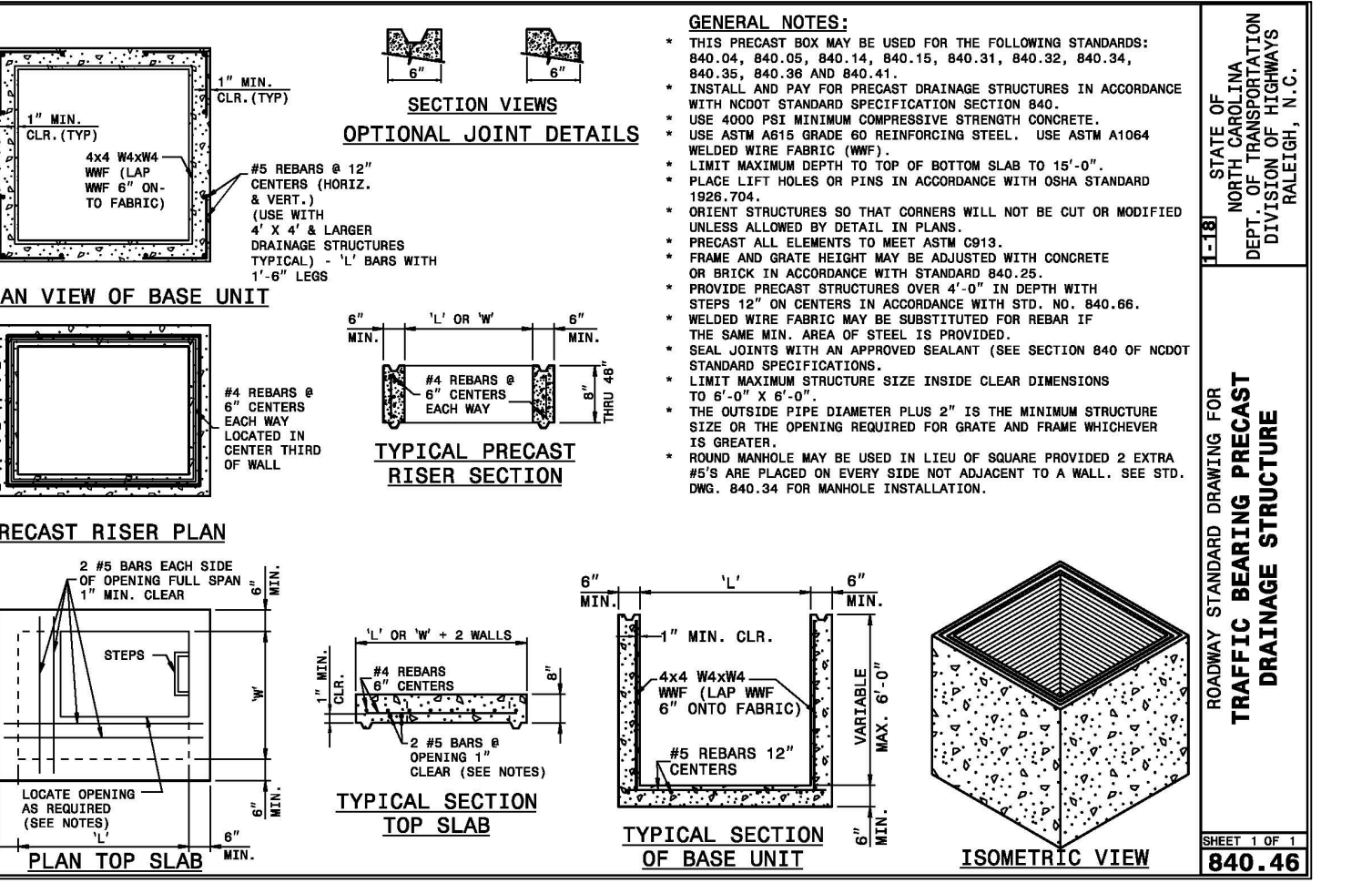
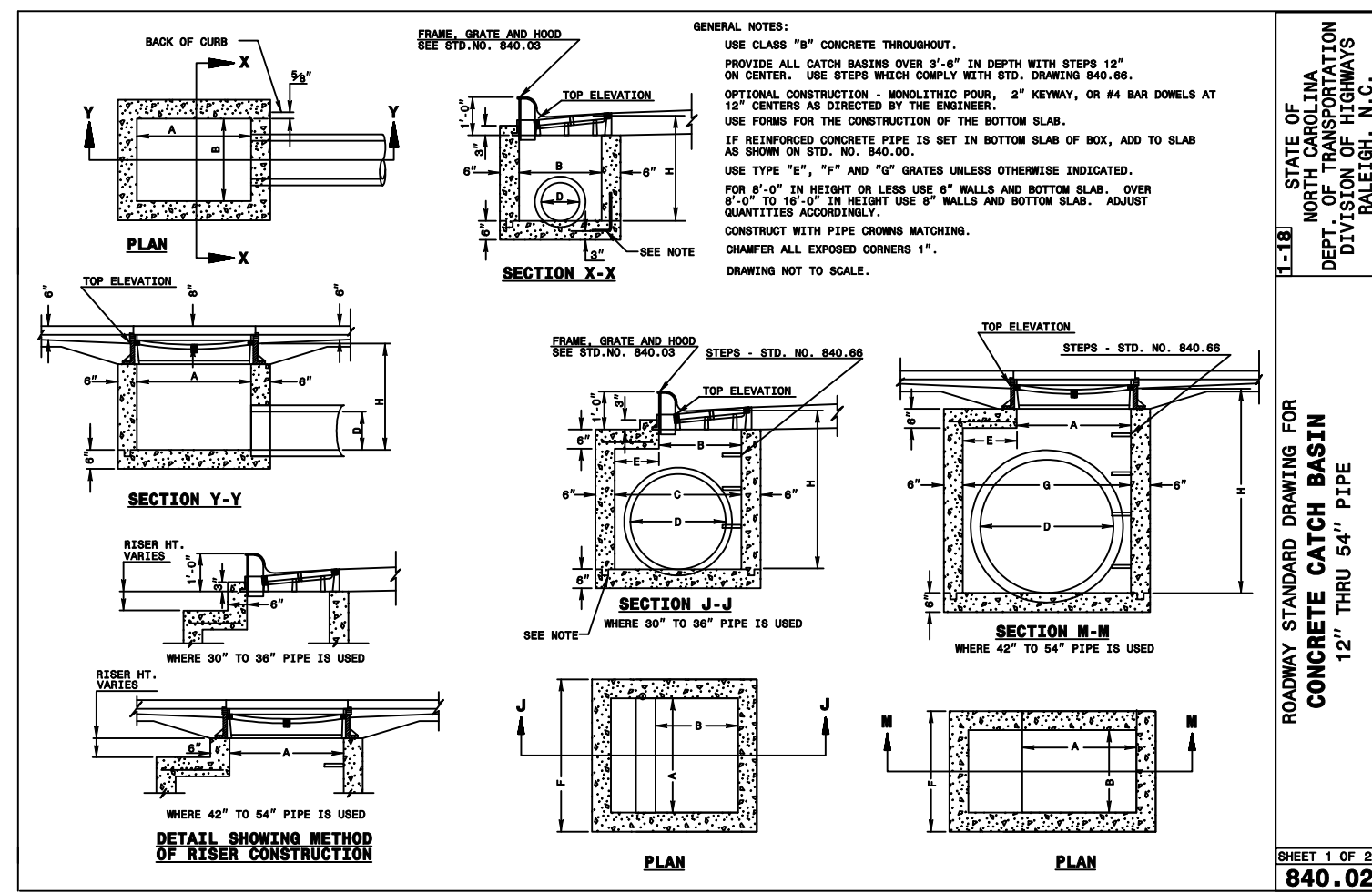
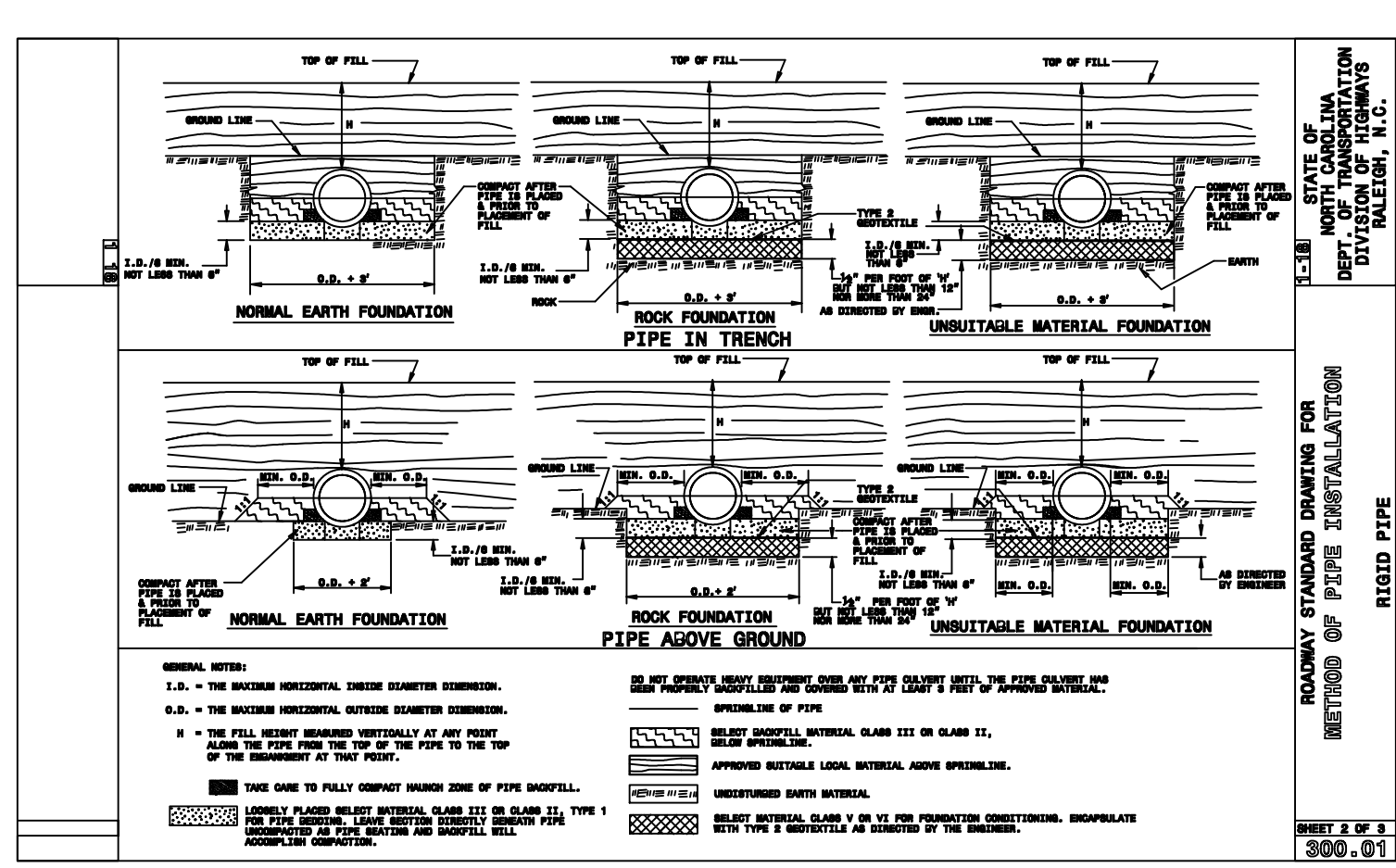
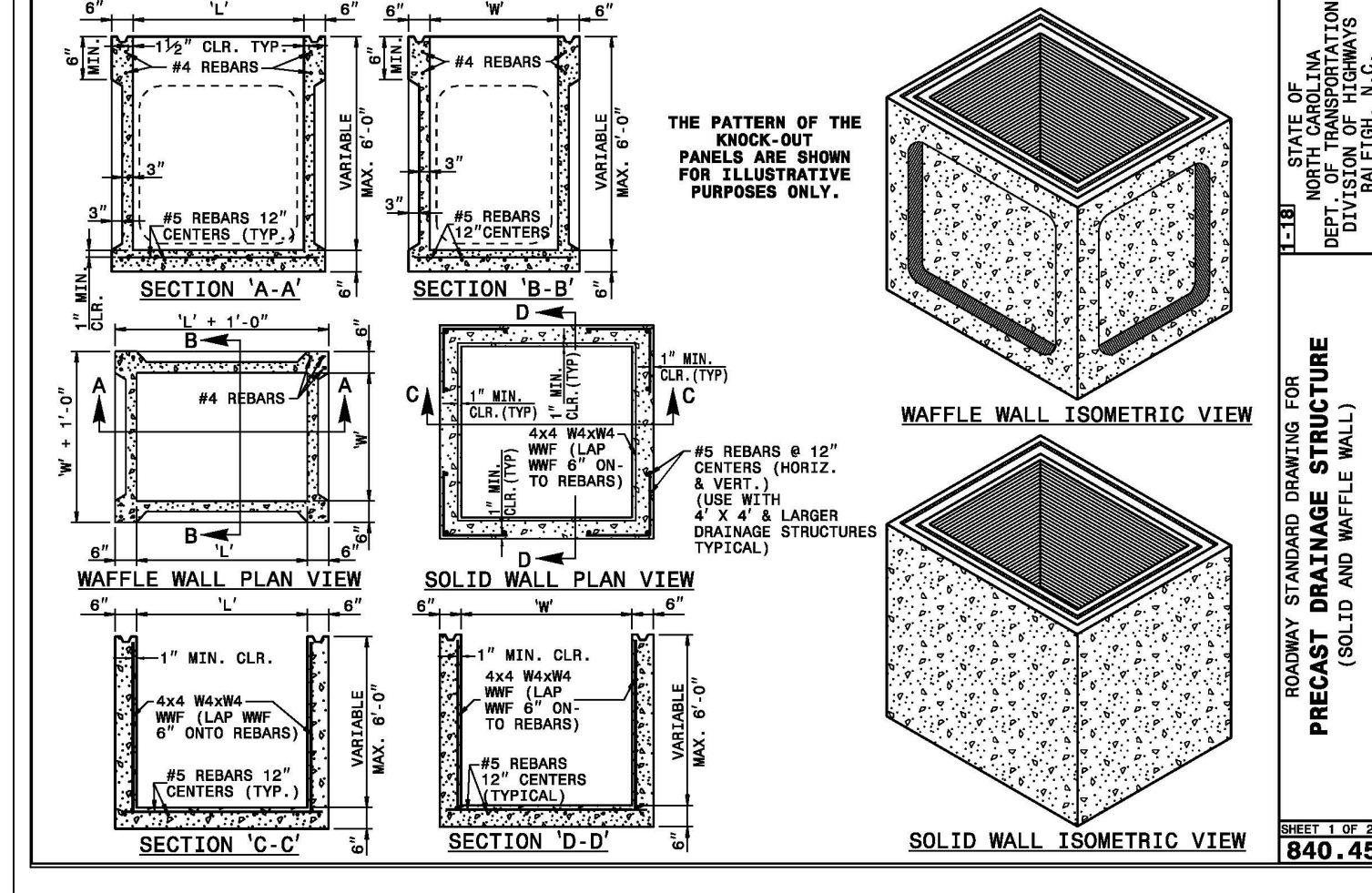
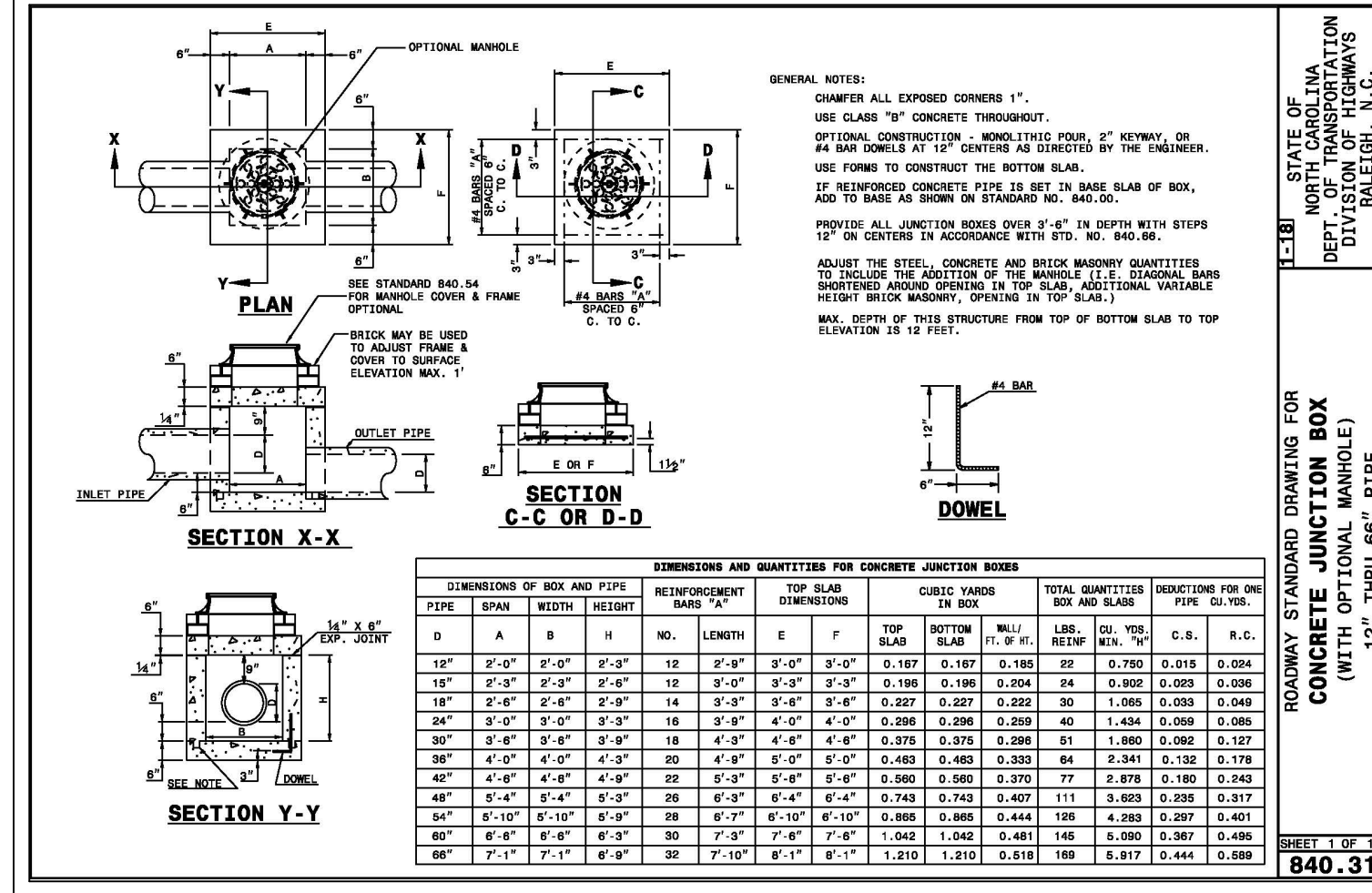
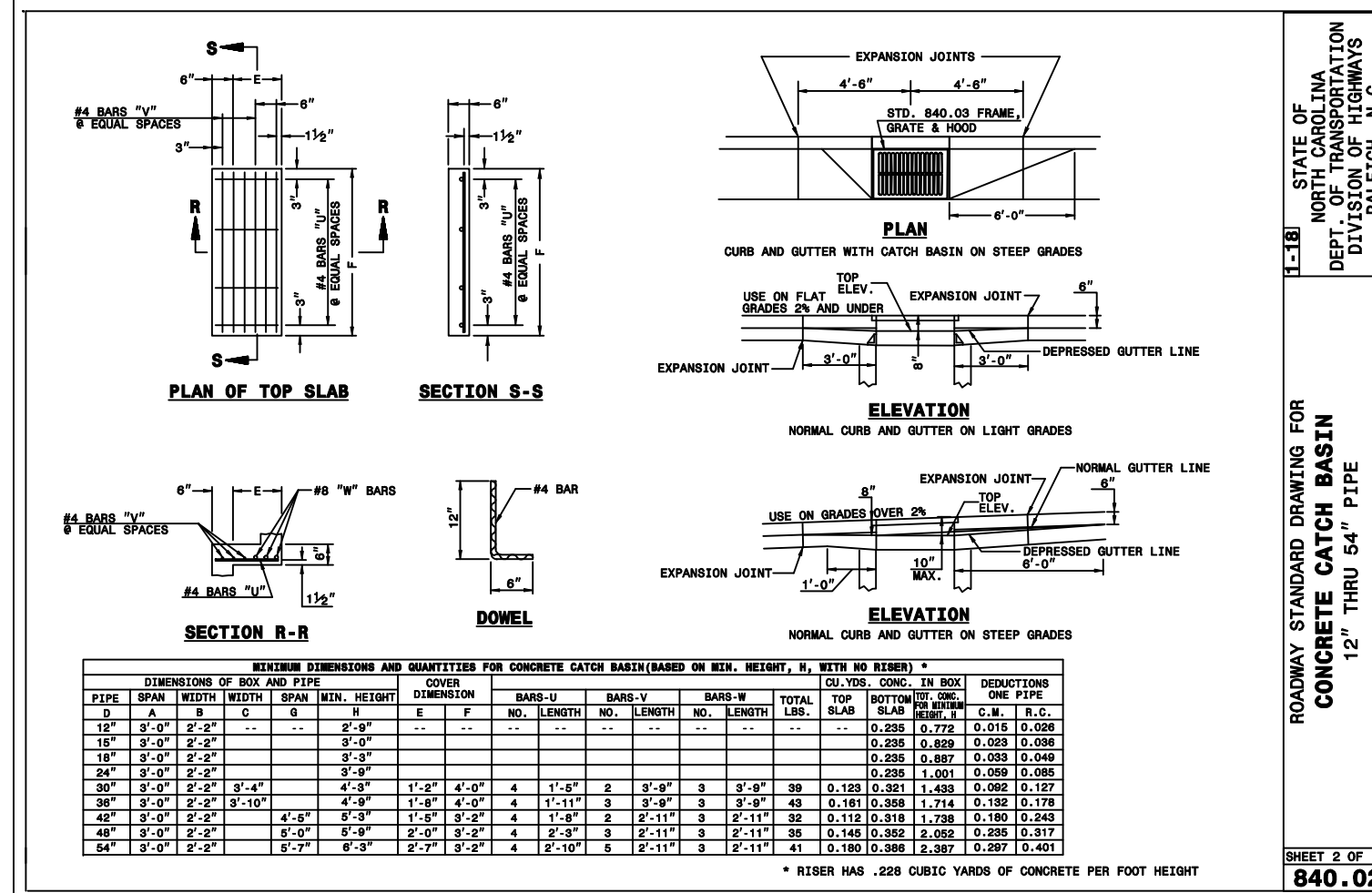
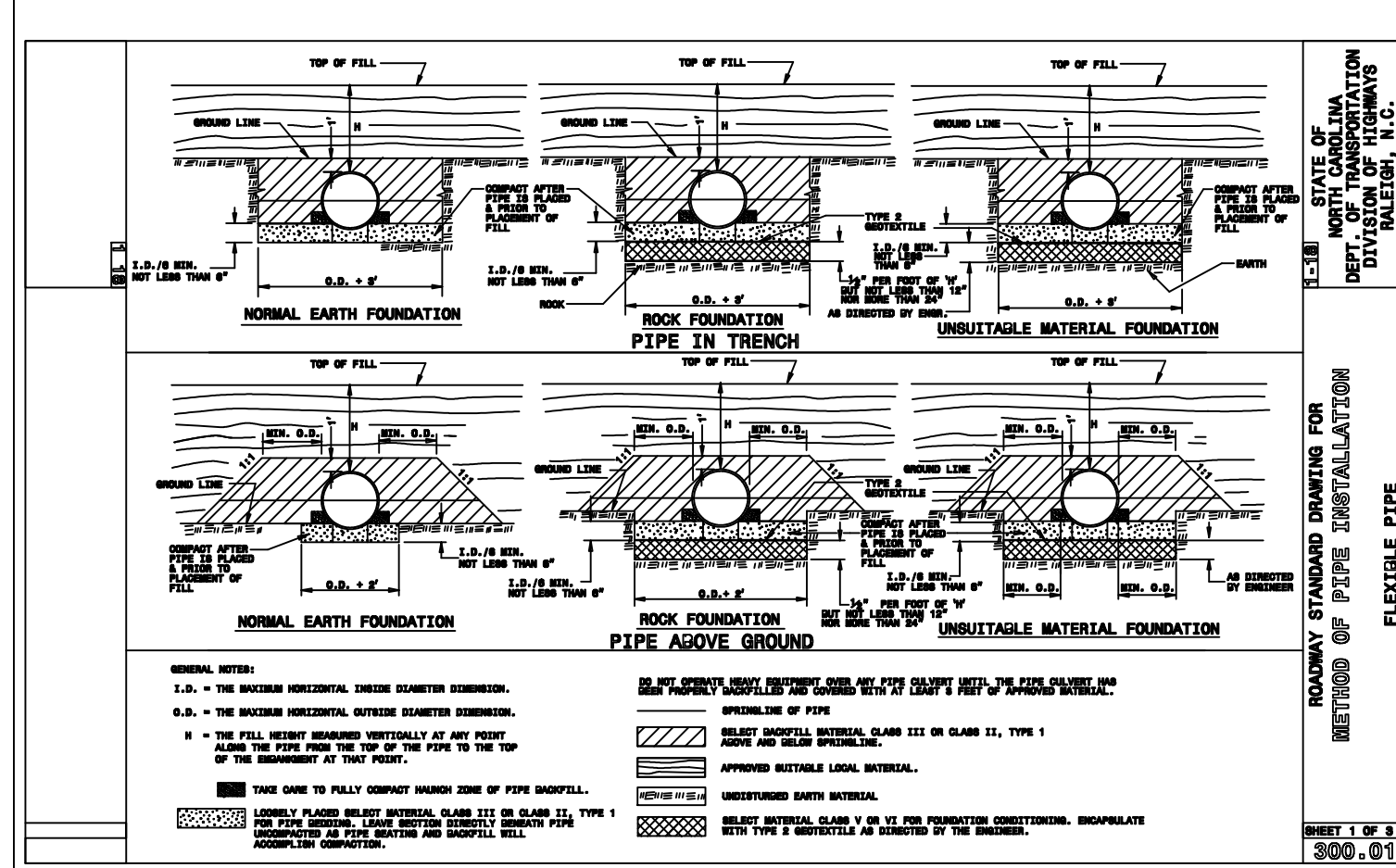
OFF THE HOOK YACHT SALES  
N.E. CAPE FEAR RIVER FACILITY  
CAPE FEAR TOWNSHIP, NEW HANOVER COUNTY, NORTH CAROLINA

Sheet No: 3  
11

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

HANOVER DESIGN SERVICES, P.A.  
1250 CALHOUN BLVD., SUITE 200  
WILMINGTON, N.C. 28403  
LICENSE # 0-00000000





**PRELIMINARY PLAN**

**REVISIONS:**

NO.	DATE	REVISIONS
3	4-21-2022	REVISIONS TRC COMMENTS
2	4-05-2022	REVISIONS TRC COMMENTS
1	2-03-2022	REVISIONS TRC COMMENTS

**OFF THE HOOK YACHT SALES**  
**N.E. CAPE FEAR RIVER FACILITY**  
CAPE FEAR TOWNSHIP, NEW HANOVER COUNTY, NORTH CAROLINA

**OWNER:** OTH REALTY, LLC  
1701 N.J.E.L. WADE DR.  
WILMINGTON, N.C. 28401

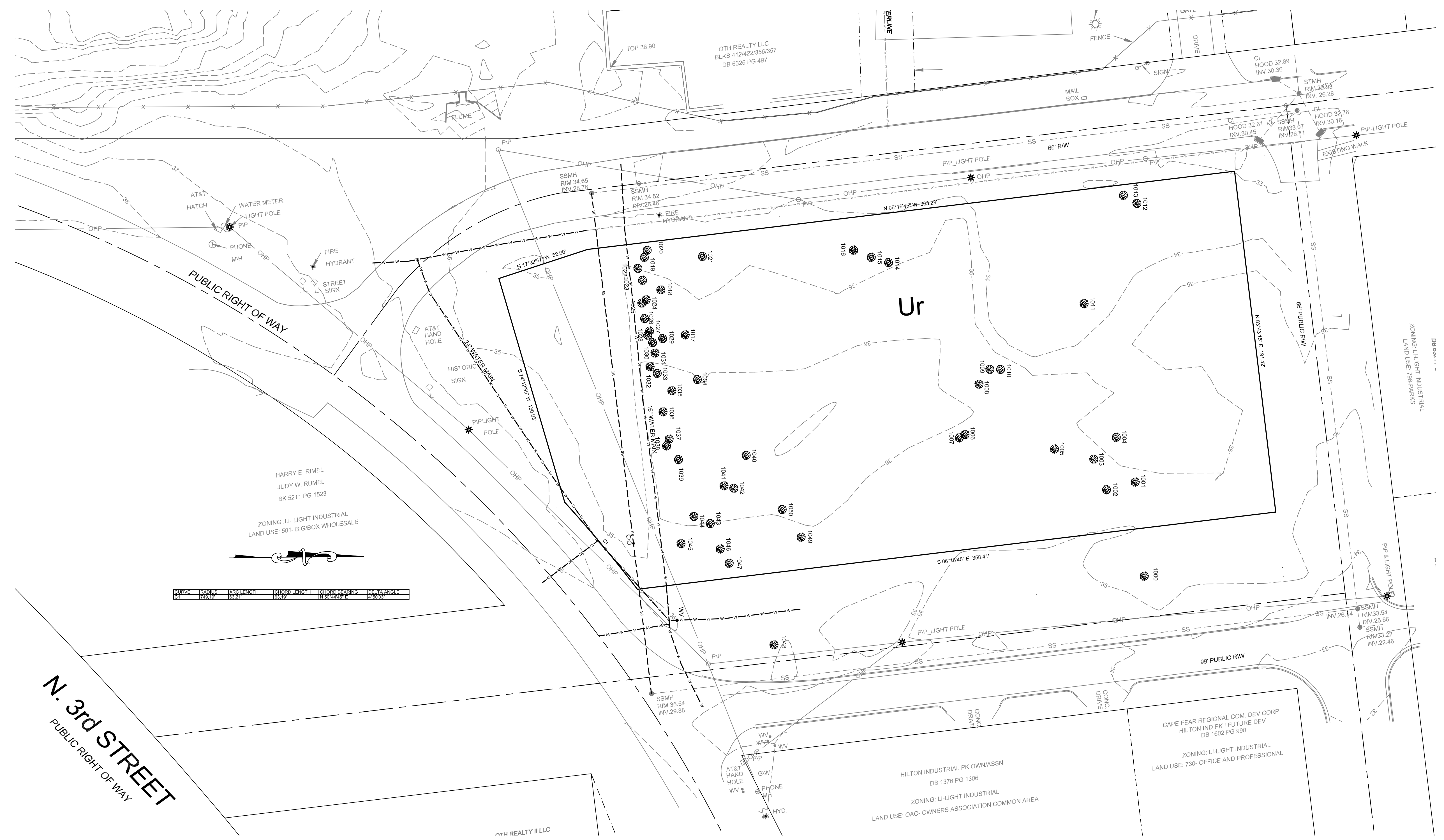
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**Scale:** HORIZ. 1"=20'  
**Drawn:** gw  
**Checked:** gw  
**Project No:** 4372

**TYPICAL DETAILS**

**PRELIMINARY PLAN**

Sheet No: **4**  
of **11**





CURVE	BACKSIGHT	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	748.19'	83.21'	83.19'	N 50°44'45" E	2.9069°

**N. 3rd STREET**  
 PUBLIC RIGHT OF WAY

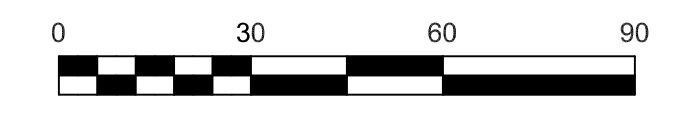
1000.38" OAK	1036.15" OAK	1082.22.5" OAK	1121.17" GUM
1001.37" OAK	1037.14.5" OAK	1083.20.5" OAK	1122.16" HARDWOOD
1002.2" MAG	1038.14" OAK	1084.9" OAK	1123.10" HARDWOOD
1003.36" OAK	1039.20" OAK	1085.13" OAK	1124.50" HARDWOOD
1004.20.5" OAK	1040.19" OAK	1086. TRIPPLE 11" 11" 10" HARD W.	1125.9" HARDWOOD
1005.30" OAK	1041.25" OAK	1087.11" HARDWOOD	1126. TRIPPLE 8.5" HARDWOOD
1006.6" HARDWOOD	1042.20" OAK	1088.9" HARDWOOD	1127.10" HARDWOOD
1007. TWIN 9" 10" HARDWOOD	1043.21" OAK	1089.10" HARDWOOD	1128.12" HARDWOOD
1008.9.5" HARDWOOD	1044.24" OAK	1090.20" HARDWOOD	1129.15" HARDWOOD
1009.12" HARDWOOD	1045.32" OAK	1091.15" HARDWOOD	1130.15" HARDWOOD
1010.8" HARDWOOD	1046.20.5" OAK	1092.24" HARDWOOD	1131.9" HARDWOOD
1011.8.5" MAG	1047.18.5" OAK	1093. TWIN 12" 10" HARD W.	1132.9" HARDWOOD
1012.10" HARDWOOD	1048.38" OAK	1094.14" HARDWOOD	1133.13" HARDWOOD
1013. TWIN 8" 7" HARDWOOD	1049.18.5" HARDWOOD	1095.25" HARDWOOD	1134. TWIN 21" 16" HARDWOOD
1014.9" HARDWOOD	1050.14" HARDWOOD	1096.23" HARDWOOD	1135.24.5" HARDWOOD
1015.9" HARDWOOD	1051.24" OAK	1097.15" HARDWOOD	1136.22" HARDWOOD
1016.10" HARDWOOD	1052.18.5" OAK	1098.18" GUM	1137.15" HARDWOOD
1017.15" OAK	1053.10" OAK	1099.10.5" OAK	1138.15" OAK
1018.19" OAK	1054.17" OAK	1100.34.5" OAK	1140.30.5" HARDWOOD
1019.15" OAK	1055.11.5" OAK	1101.18.5" HARDWOOD	1141.9" HARDWOOD
1020.10" OAK	1056.9.5" OAK	1102.14" OAK	1142.11" HARDWOOD
1021.8.5" HARDWOOD	1057.14.5" OAK	1103.15" OAK	1143. TWIN 9.5" 8" GUM
1022.17" OAK	1058.18.5" OAK	1104. TWIN 22.5" 12.5" OAK	1144.9" HARDWOOD
1023.22" OAK	1059.16" OAK	1105.19" OAK	
1024. TWIN 14" 12" OAK	1061.27" OAK	1106.12.5" OAK	
1025.22" OAK	1062.16" OAK	1107.8.5" OAK	
1026.13.5" OAK	1063.10" HARDWOOD	1110.13.5" HARDWOOD	
1027.8.5" OAK	1064.20" OAK	1111.34" HARDWOOD	
1028.17.5" OAK	1066.19" HARDWOOD	1112.38" HARDWOOD	
1029.11.5" OAK	1075. TWIN 14" 9" OAK	1113. TWIN 9.5" 8" HARD W.	
1030.7" MAG	1076.8" OAK	1114. TRIPPLE 7.5" 11" 9" HARD W.	
1031.23" OAK	1077.15" OAK	1115.9" HARDWOOD	
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1033. TWIN 12" 19.5" OAK	1079.9" OAK	1117.5" HARDWOOD	
1034.9.5" OAK	1080.8" OAK	1118.24" HARDWOOD	
1035.24" OAK	1081.20.5" OAK	1119.10" HARDWOOD	

**WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**Approved Construction Plan**

Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____

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 / TRC COMMENTS	DATE
3	REVISIONS / TRC COMMENTS	4-7-2022
2	REVISIONS / TRC COMMENTS	4-05-2022
1	REVISIONS / TRC COMMENTS	2-03-2022

**EXISTING CONDITIONS**

**OFF THE HOOK YACHT SALES**  
**N.E. CAPE FEAR RIVER FACILITY**

OWNER: OTH REALTY LLC  
 1701 N. J. L. WADE DR.  
 WILMINGTON N.C. 28401

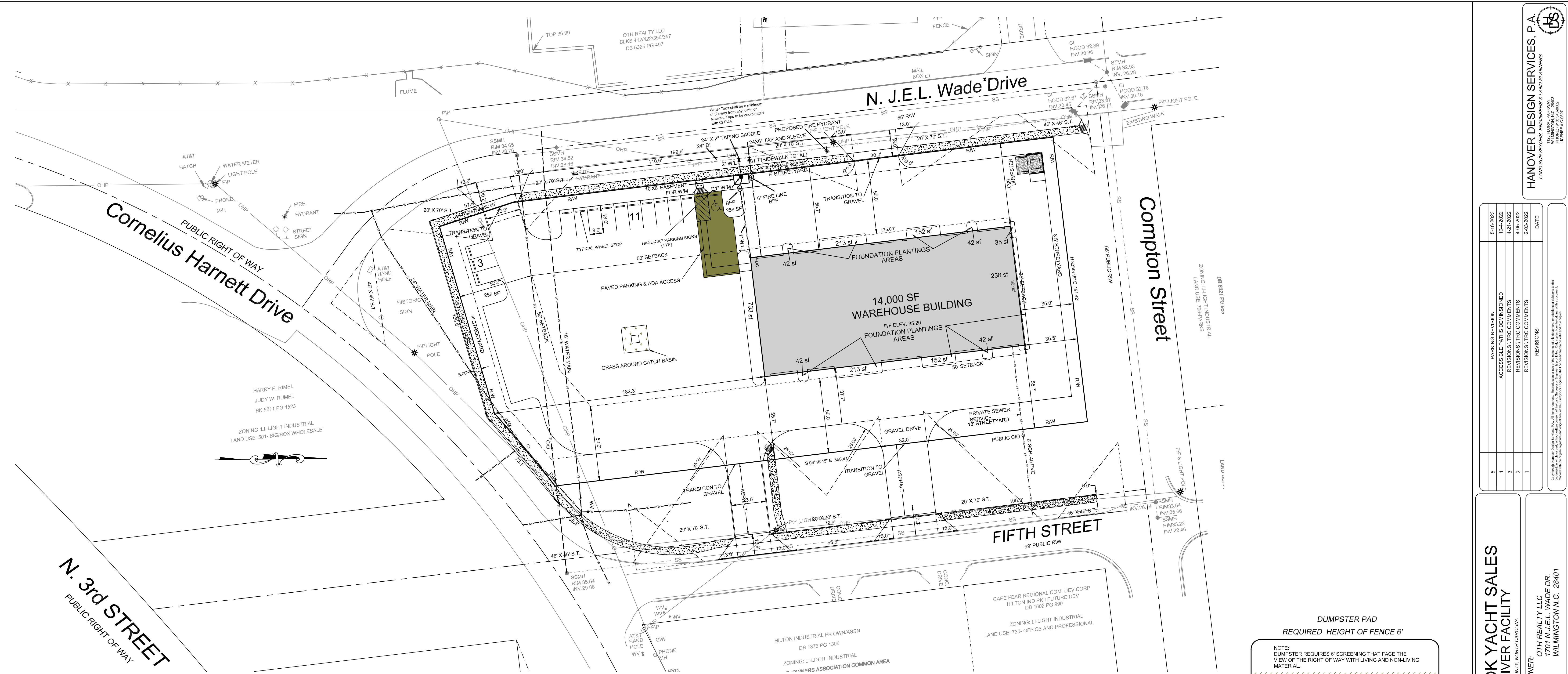
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 Drawn: gw  
 Checked: gw  
 Project No: 4372

**EXISTING CONDITIONS**

**PRELIMINARY PLAN**

Sheet No: **7**  
 of **11**





**IMPERVIOUS CALCULATIONS**

BUILDING	14000	SF
PARKING AND DRIVES	47256	SF
SIDEWALKS	142	SF
FUTURE	996	SF
TOTAL PROPOSED IMPERVIOUS(NOW AND FUTURE)	62,394	SF

**BUILDING LOT COVERAGE**

PROPOSED BLDG.	14000	SF
TOTAL TRACT AREA	75588	SF
BUILDING LOT COVERAGE	18.5%	

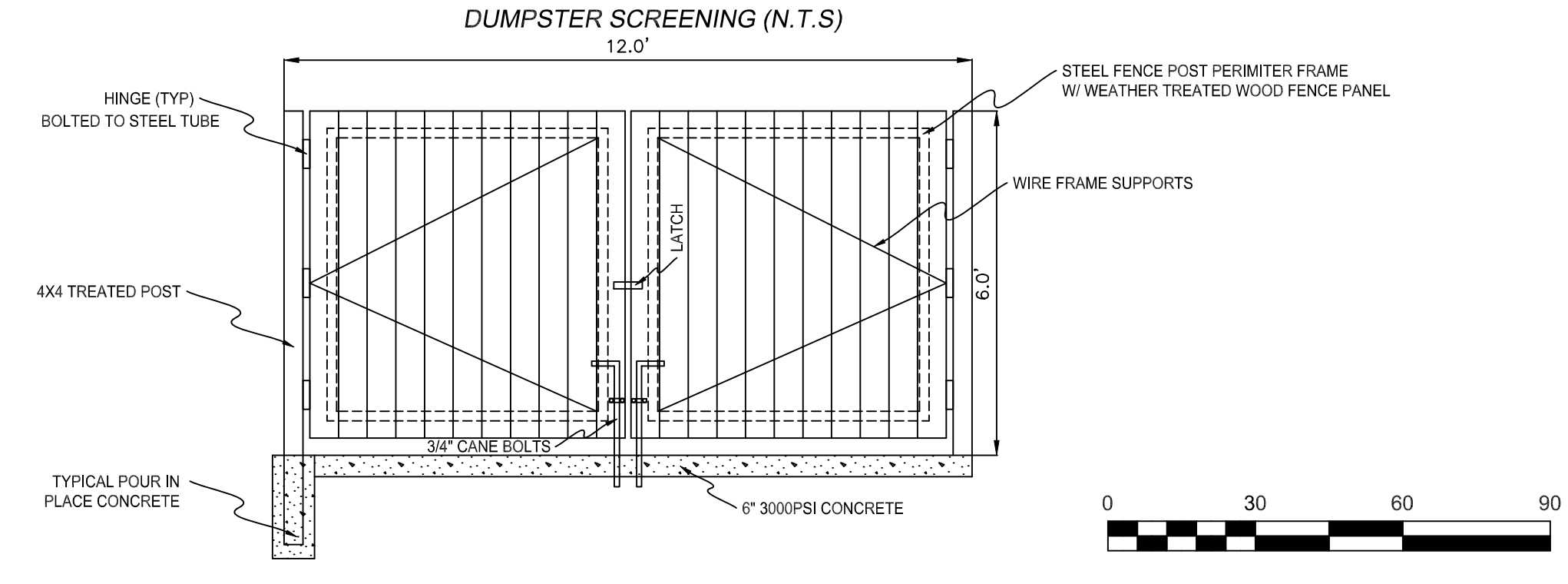
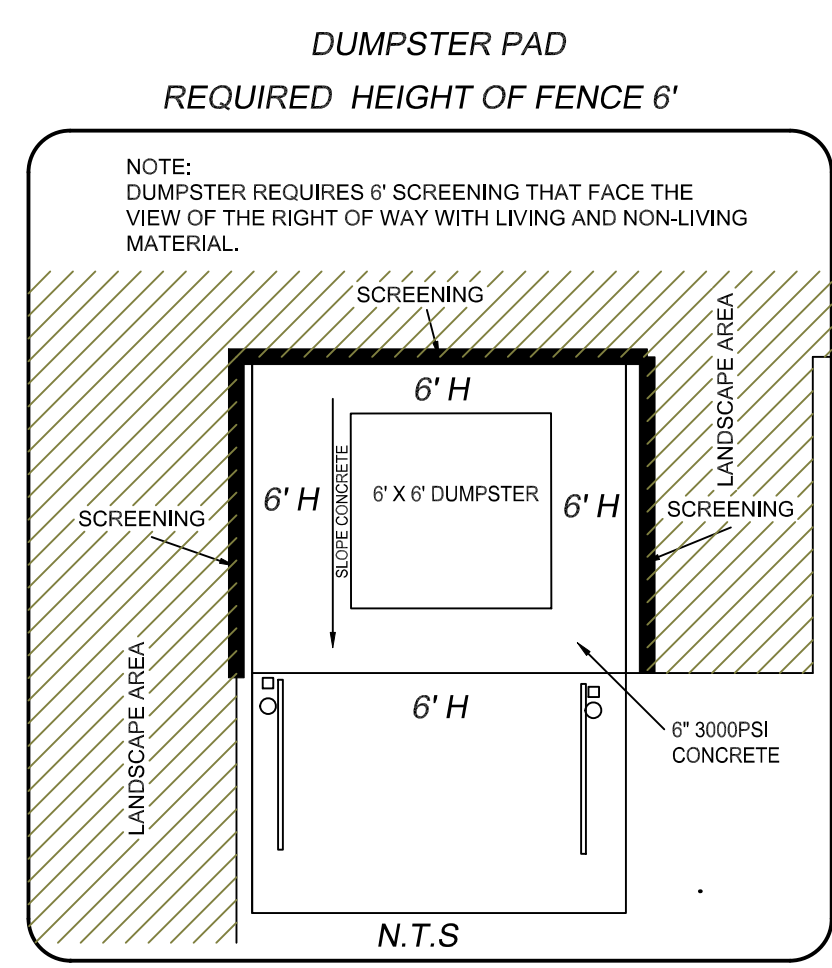
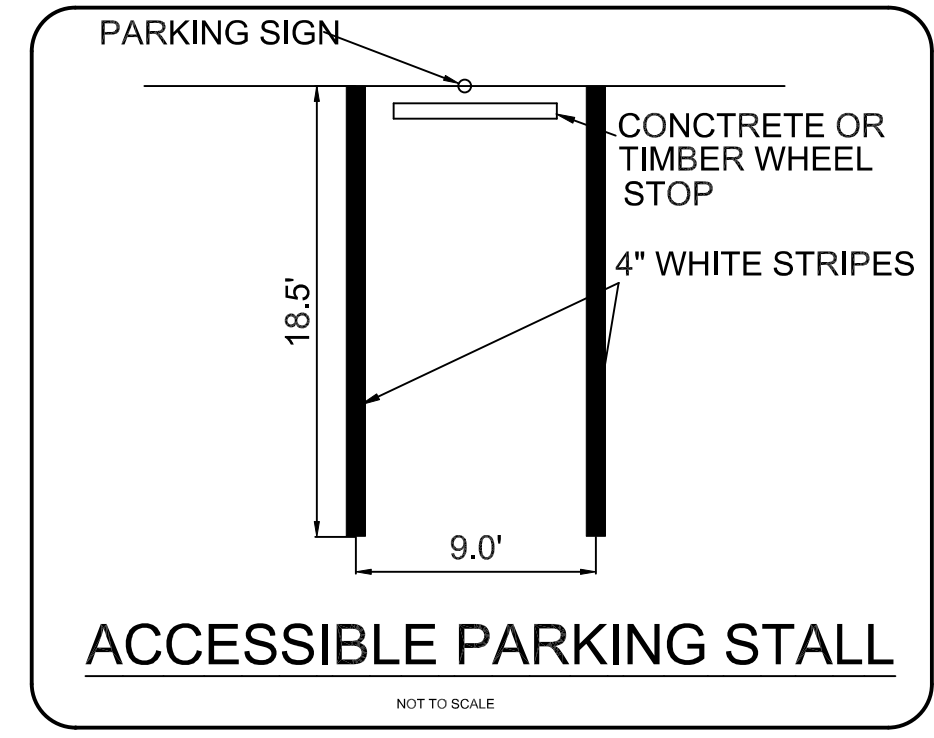
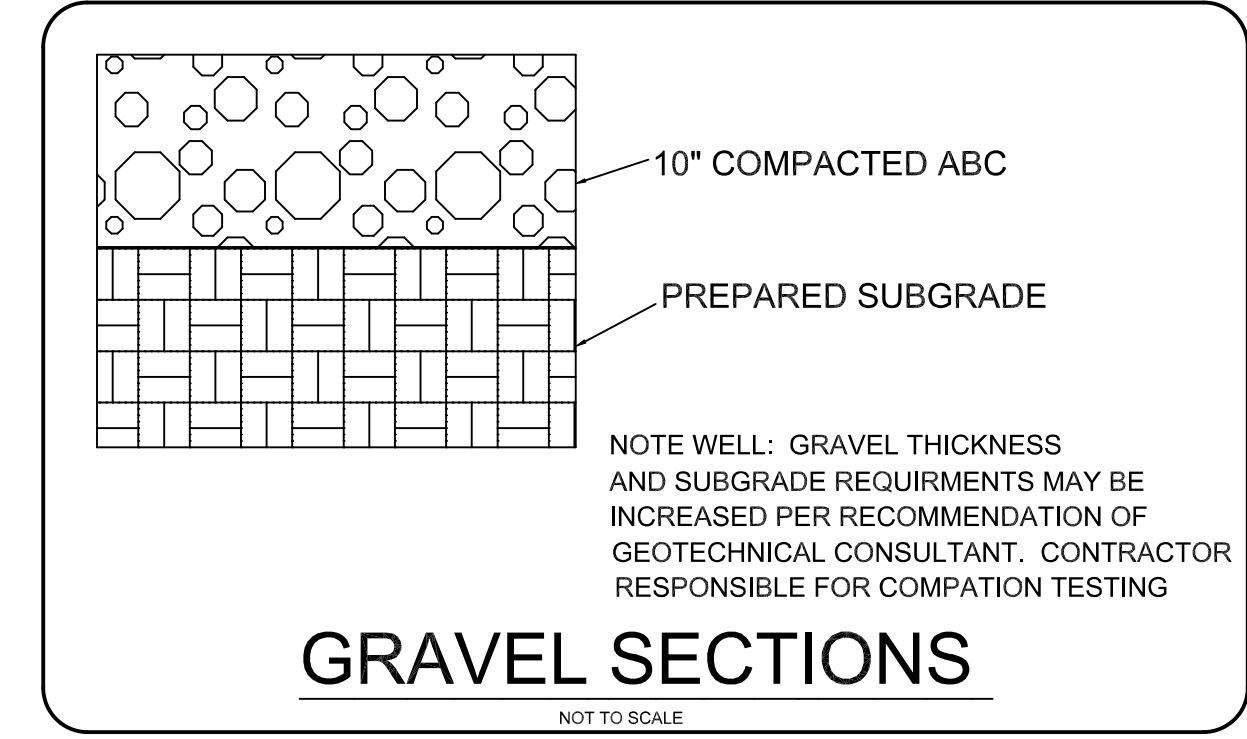
**TRIP GENERATION CHART**

LAND USE	ITE CODE	24 HR VOLUMES	AM PEAK HOURS TRIPS= 23		PM PEAK HOUR TRIPS=28	
			ENTER	EXIT	ENTER	EXIT
SPECIAL TRADE CONTRACTOR						
BOAT REPAIR						
14,000 SF PROPOSED	180	143	17	6	9	19
CURRENT LAND USE	958					

**FOUNDATION PLANTINGS**  
 NORTH BUILDING FACADE 80' X 21' = 1660 (SF) X .12 = 235.2 (SF)  
 SOUTH BUILDING FACADE 80' X 21' = 1660 (SF) X .12 = 235.2 (SF)  
 EAST BUILDING FACADE 1960 (SF) X .12 = 441 (SF)  
 WEST BUILDING FACADE 1960 (SF) X .12 = 441 (SF)  
 TOTAL FOUNDATION PLANTING REQUIRED = 1,352.4 (SF)  
 FOUNDATION PLANTING SHOWN = 2,096 (SF)

**SITE DATA**  
 PARCEL ID. NO. R04805-023-001-000  
 OWNER: OTH REALTY II LLC  
 1.74 ACRES TOTAL TRACT  
 ZONED L1-LIGHT INDUSTRIAL (WITHIN A SPECIAL HIGHWAY OVERLAY DISTRICT)  
 PROPOSED USE: WAREHOUSING  
 BUILDING CONSTRUCTION TYPE: TYPE II-B  
 BUILDING LOT COVERAGE 18.5%  
 PROPOSED BLDG. HEIGHT ONE STORY LESS THAN 45'  
 MINIMUM FRONT SETBACK 50'  
 MINIMUM REAR SETBACK 0' (35' ABUTTING RESIDENTIAL)  
 MINIMUM INTERIOR SIDE SETBACK 0' (20' ABUTTING RESIDENTIAL)  
 MINIMUM CORNER LOT SIDE SETBACK 50'  
 MAX. HEIGHT 35' (ADDITIONAL HEIGHT REQUIRES GRATER SETBACKS)  
 STREET YARD 18' AND 9'  
 SOIL TYPES INCLUDE Ur (URBAN LAND) AND Ku (URBAN LAND COMPLEX)  
 CAMA LAND TYPE (URBAN)  
 PROPOSED BLDG. SIZE 14,000 S.F.  
 PARCEL AREA 1.73 ACRES (75,528 S.F.)

**PARKING**  
 MINIMUM PARKING REQUIRED (1 PER 1,000 SF OF BLDG.) 14 SPACES  
 MAXIMUM PARKING ALLOWED (NO MAXIMUM SPECIFIED)  
 TOTAL PARKING SHOWN 14 TOTAL SPACES  
 ACCESSIBLE PARKING REQUIRED: 1 PER 25  
 ACCESSIBLE PARKING PROVIDED: 1  
 BICYCLE PARKING REQUIRED: 5  
 BICYCLE PARKING PROVIDED: 5



**HANOVER DESIGN SERVICES, P.A.**  
 LAND SURVEY, CIVIL, ENGINEERING & LAND PLANNING  
 103 FALCON PARKWAY  
 WILMINGTON, N.C. 28403  
 LICENSE # F-50597

NO.	DATE	REVISIONS
1	2-03-2022	REVISIONS TRC COMMENTS
2	4-05-2022	REVISIONS TRC COMMENTS
3	4-21-2022	REVISIONS TRC COMMENTS
4	10-4-2022	ACCESSIBLE PATHS DEMONSTRATED
5	5-16-2023	PARKING REVISION

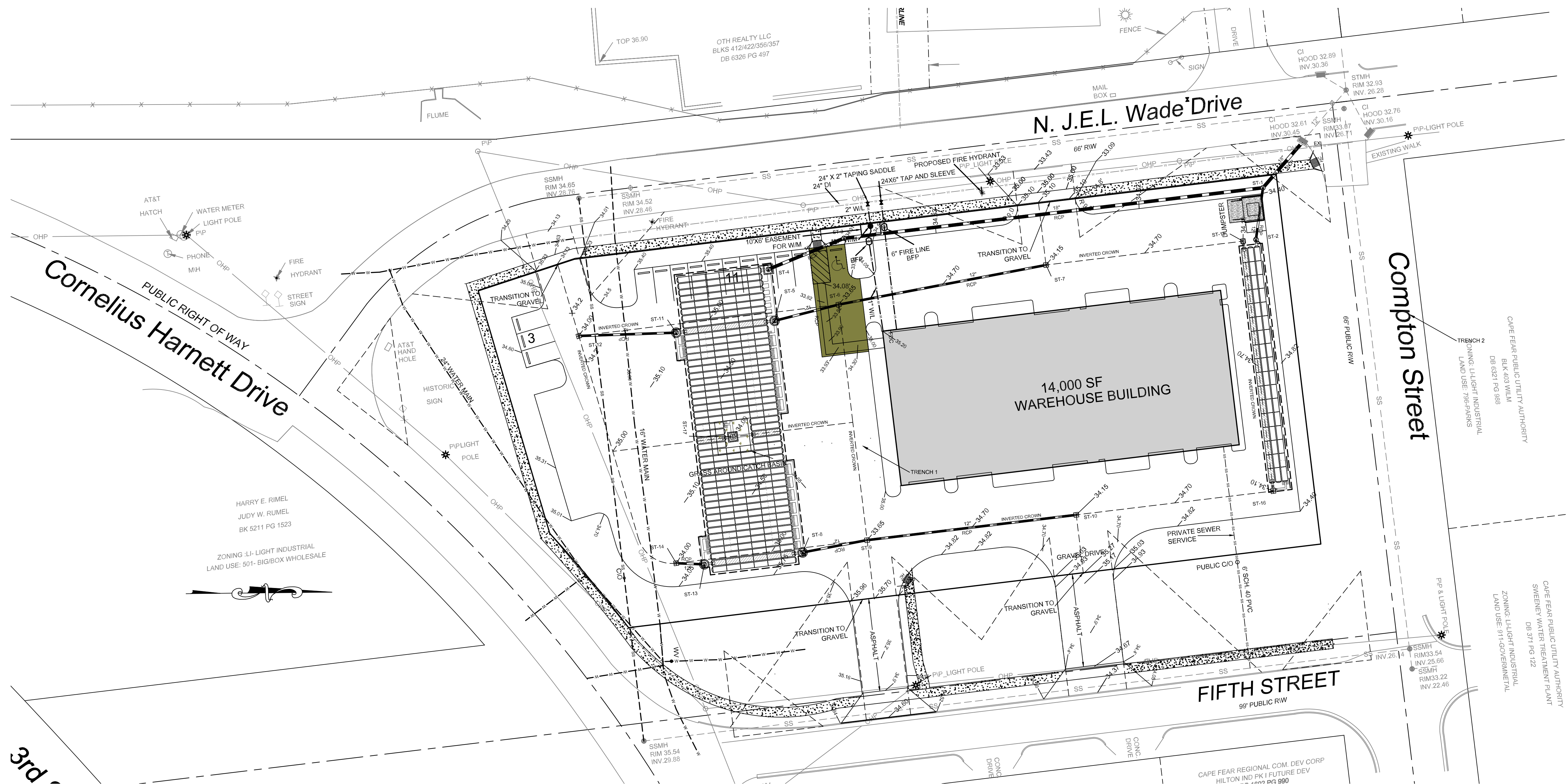
OWNER: OTH REALTY LLC  
 1701 N.J.E.L. WADE DR.  
 WILMINGTON, N.C. 28401

Date: 5-5-2022  
 Scale: HORZ.: 1" = 30'  
 Drawn: gw  
 Checked: AHG  
 Project No: 4372

**PRELIMINARY PLAN**

Sheet No: **8**  
 of **11**





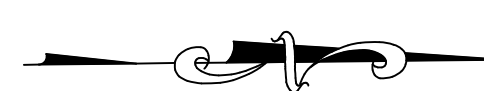
**Cornelius Harnett Drive**  
 PUBLIC RIGHT OF WAY

**N. J.E.L. Wade Drive**

**Compton Street**

**FIFTH STREET**  
 99' PUBLIC R/W

HARRY E. RIMEL  
 JUDY W. RUMEL  
 BK 5211 PG 1923  
 ZONING LI-LIGHT INDUSTRIAL  
 LAND USE: 901-BIGBOX WHOLESALE



DATE	REVISIONS	REVISIONS, ITRC COMMENTS
5-16-2023	4	PARKING REVISION
4-21-2022	3	REVISIONS, ITRC COMMENTS
4-05-2022	2	REVISIONS, ITRC COMMENTS
2-09-2022	1	REVISIONS, ITRC COMMENTS

**OFF THE HOOK YACHT SALES**  
**N.E. CAPE FEAR RIVER FACILITY**

OWNER: OTH REALTY LLC  
 1701 N. J.E.L. WADE DR.  
 WILMINGTON N.C. 28401

Date: 5-5-2022  
 Scale: HORZ: 1"= 30'  
 Drawn: gw  
 Checked: gw  
 Project No: 4372

**GRADING PLAN**

**PRELIMINARY PLAN**

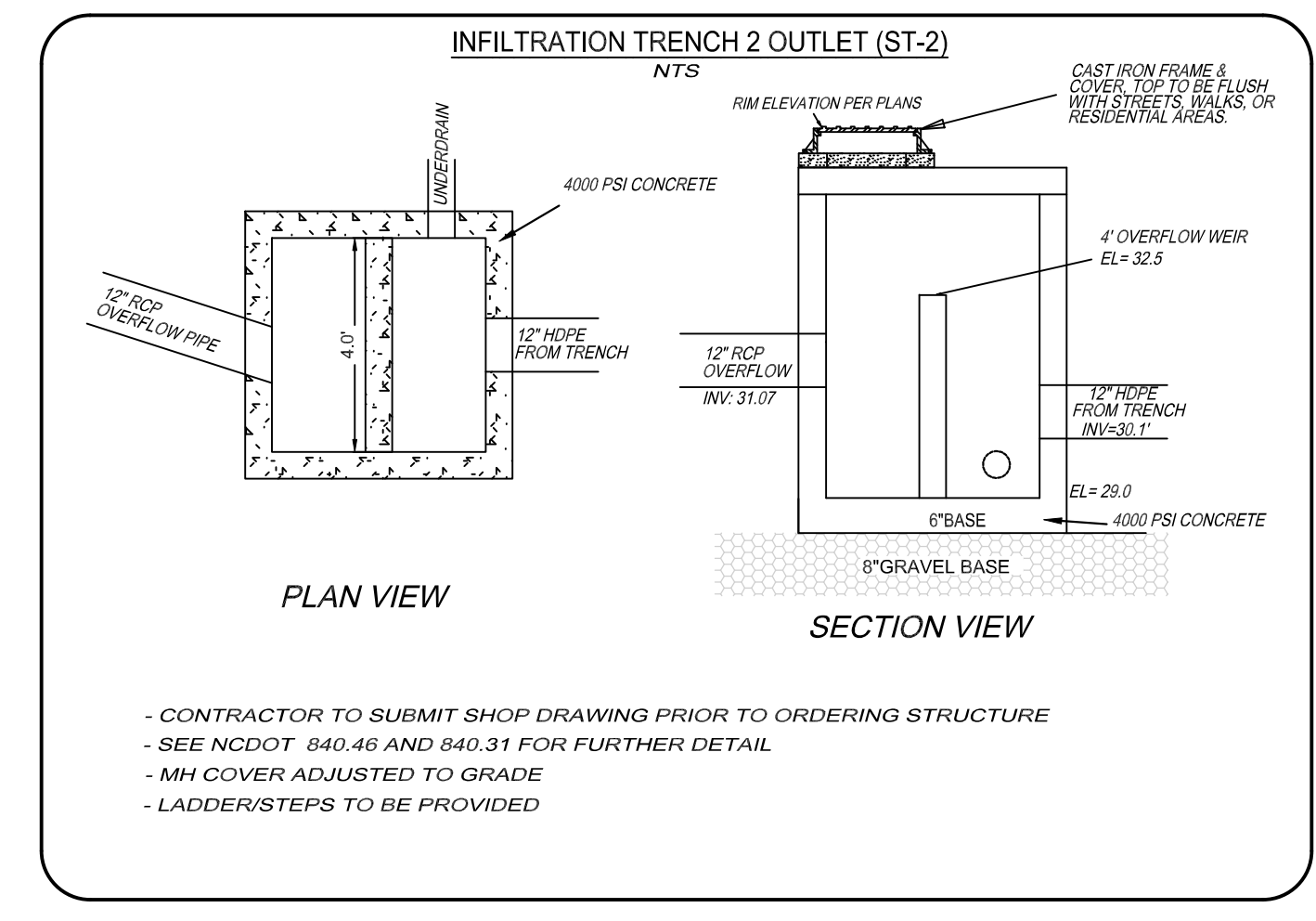
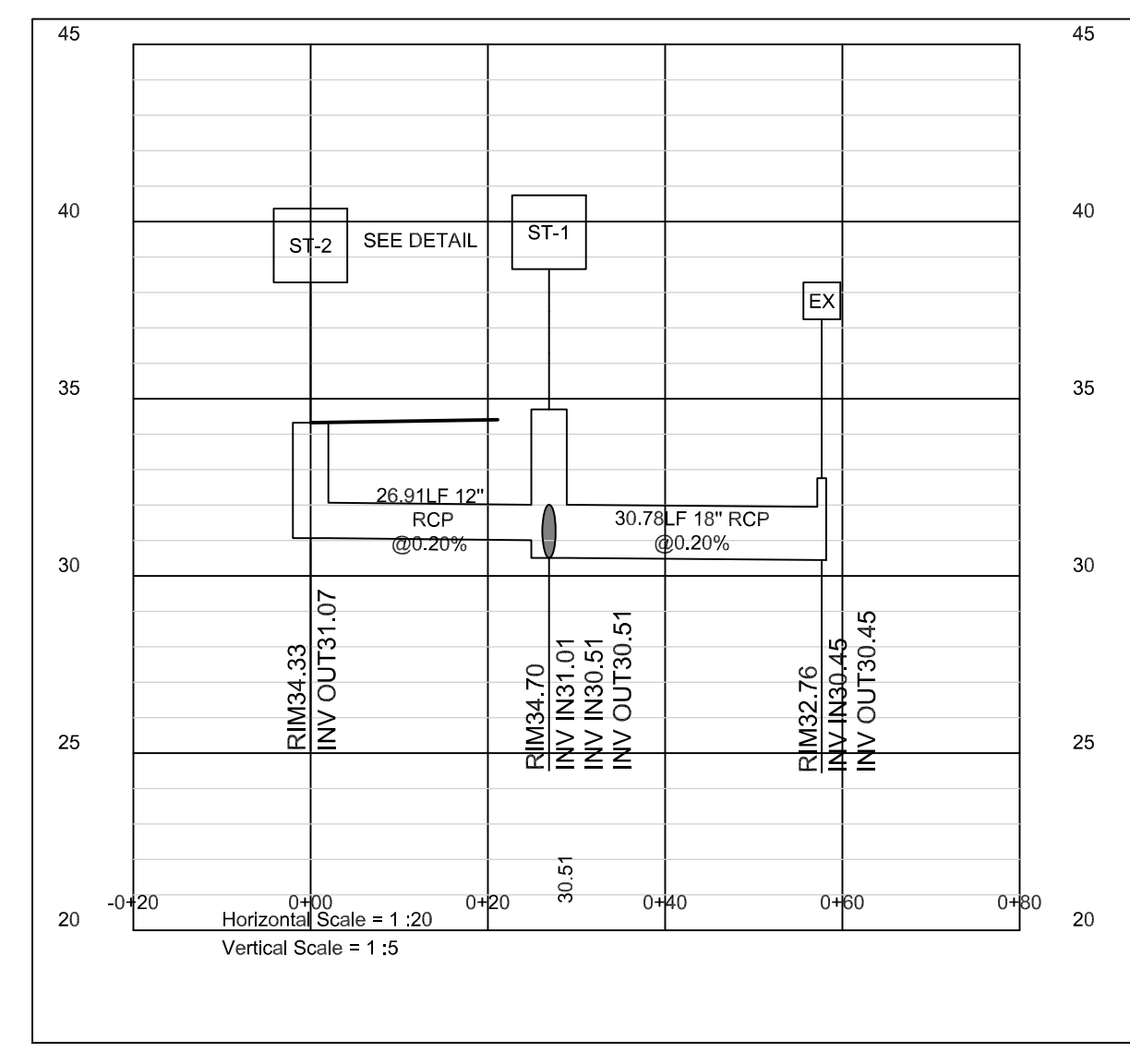
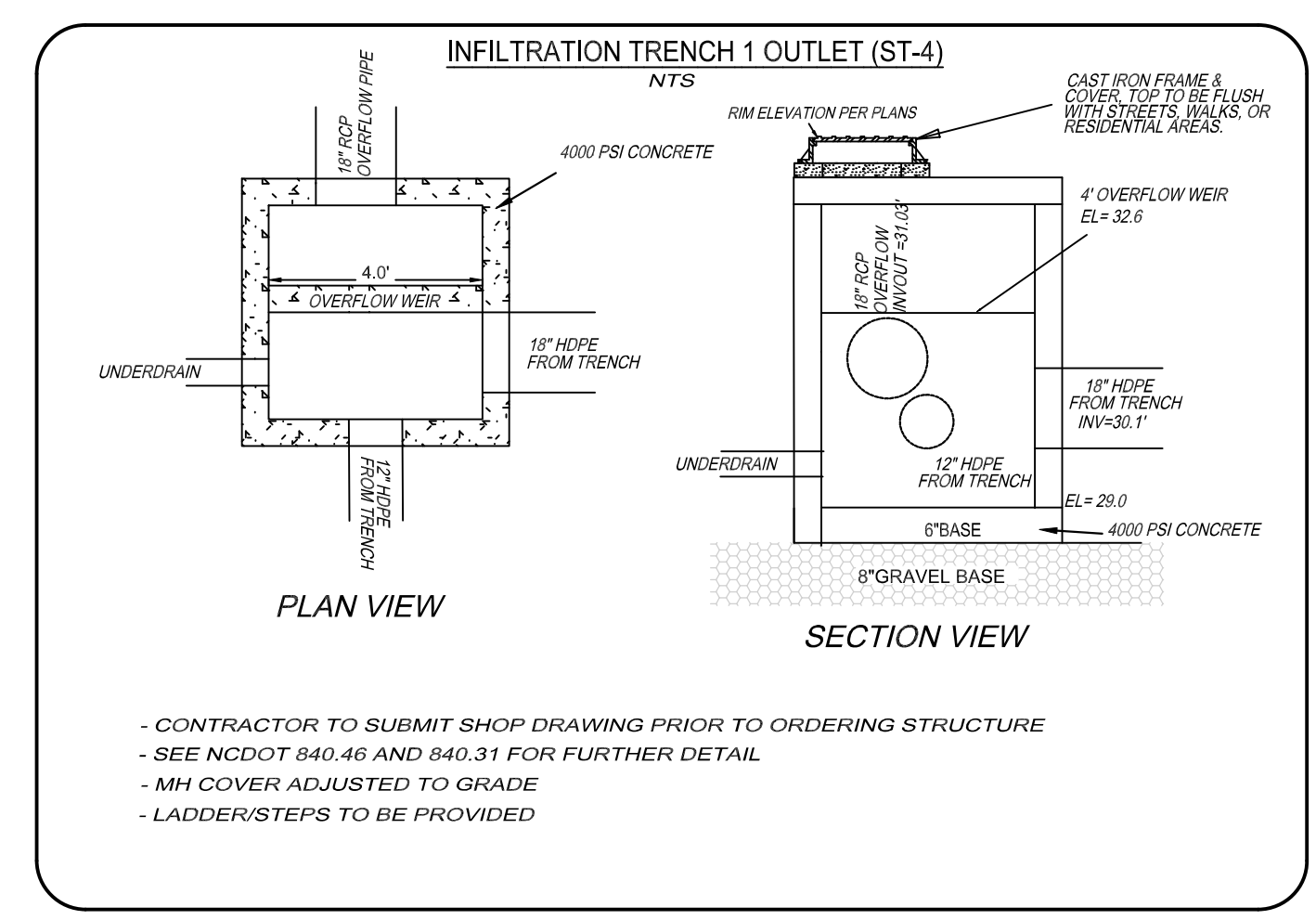
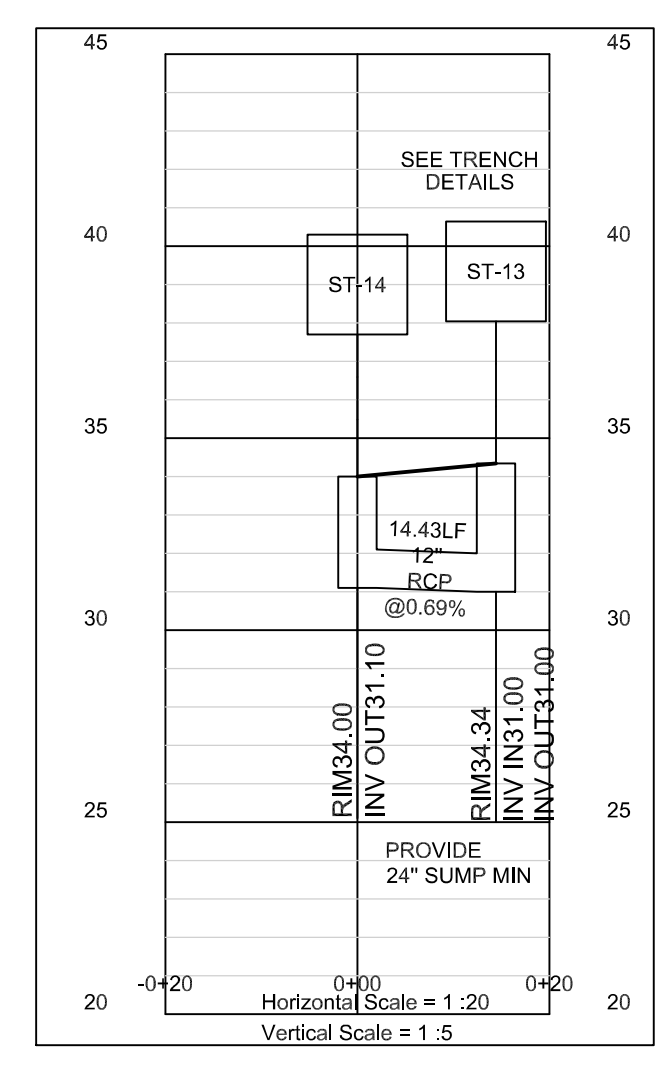
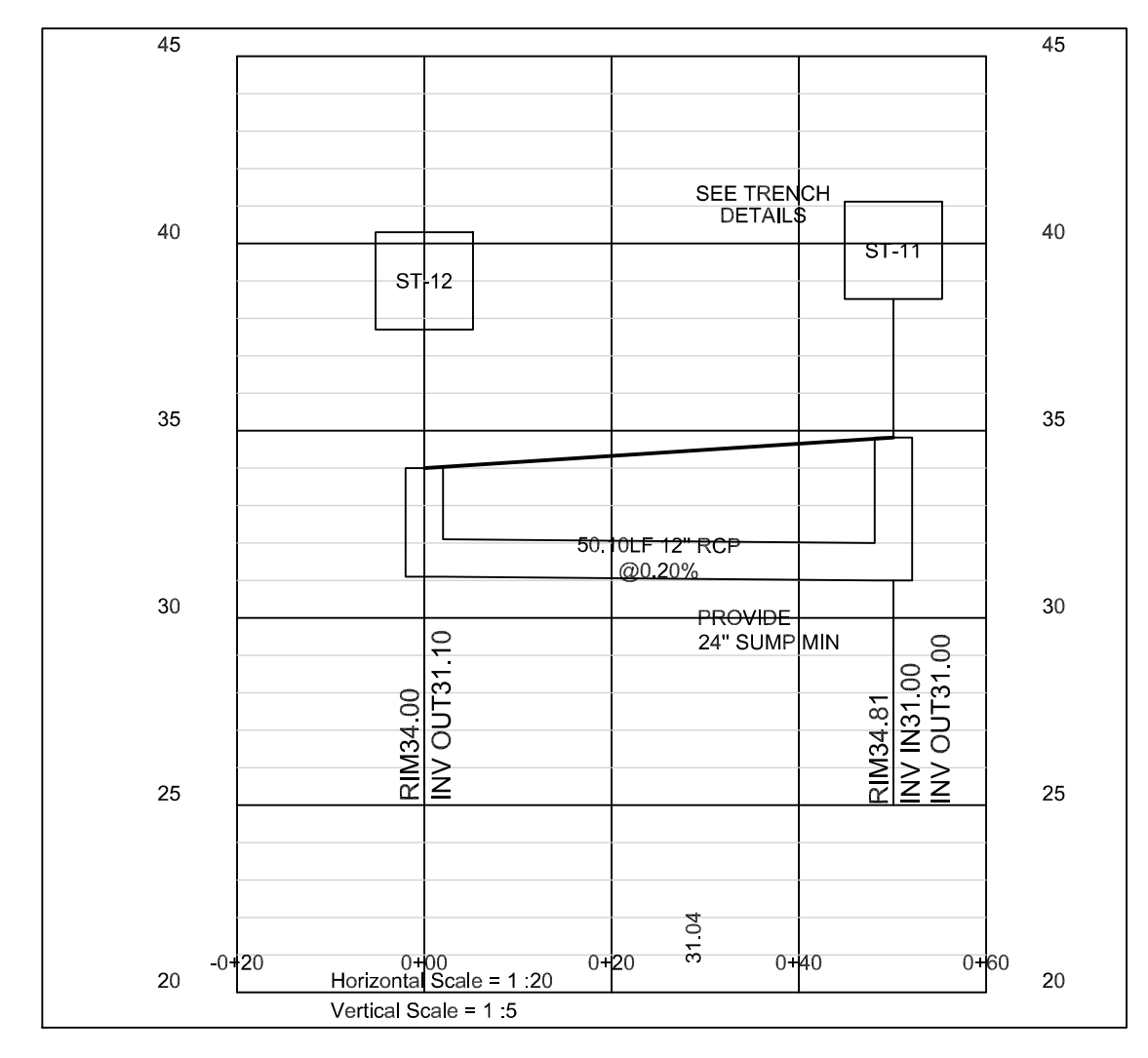
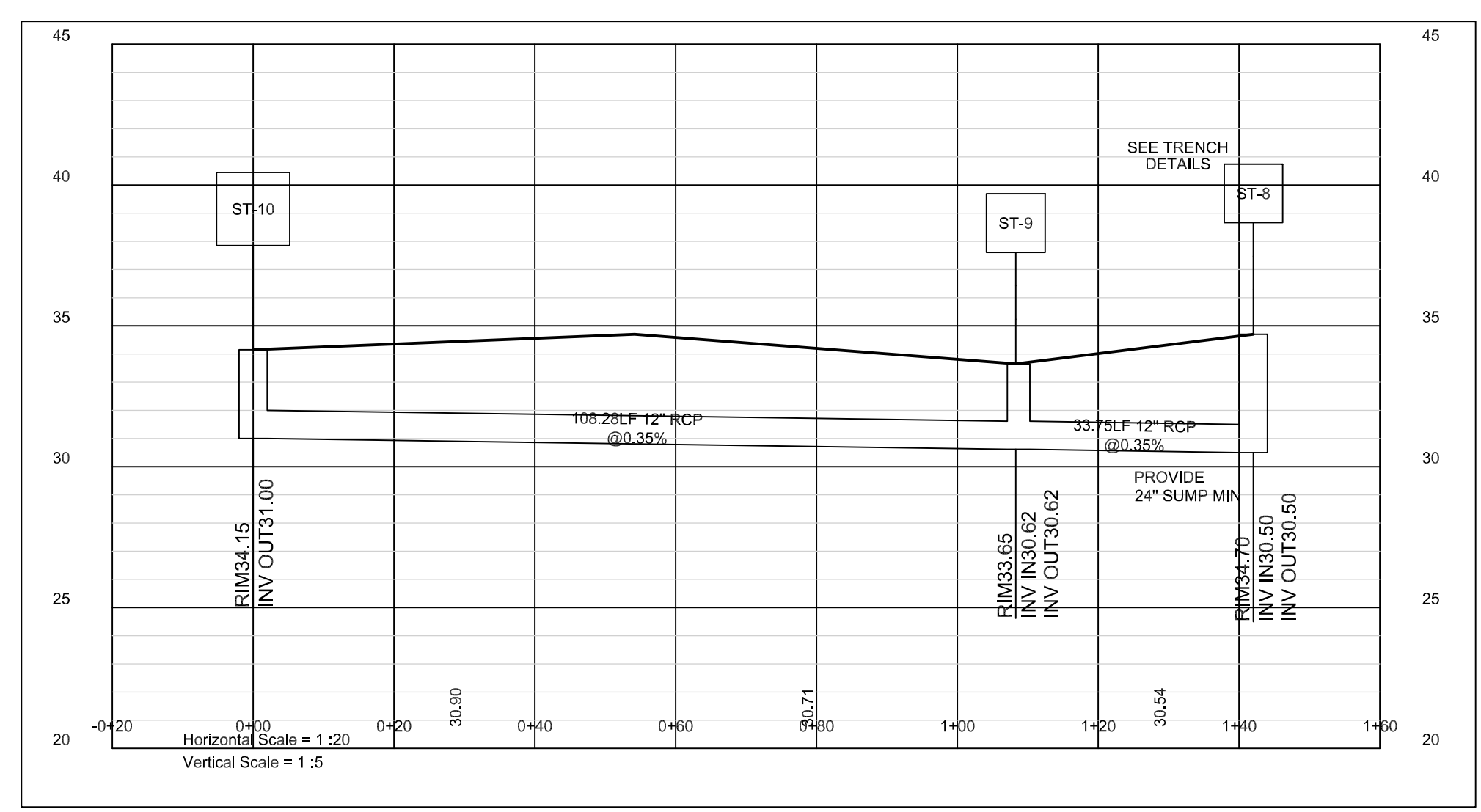
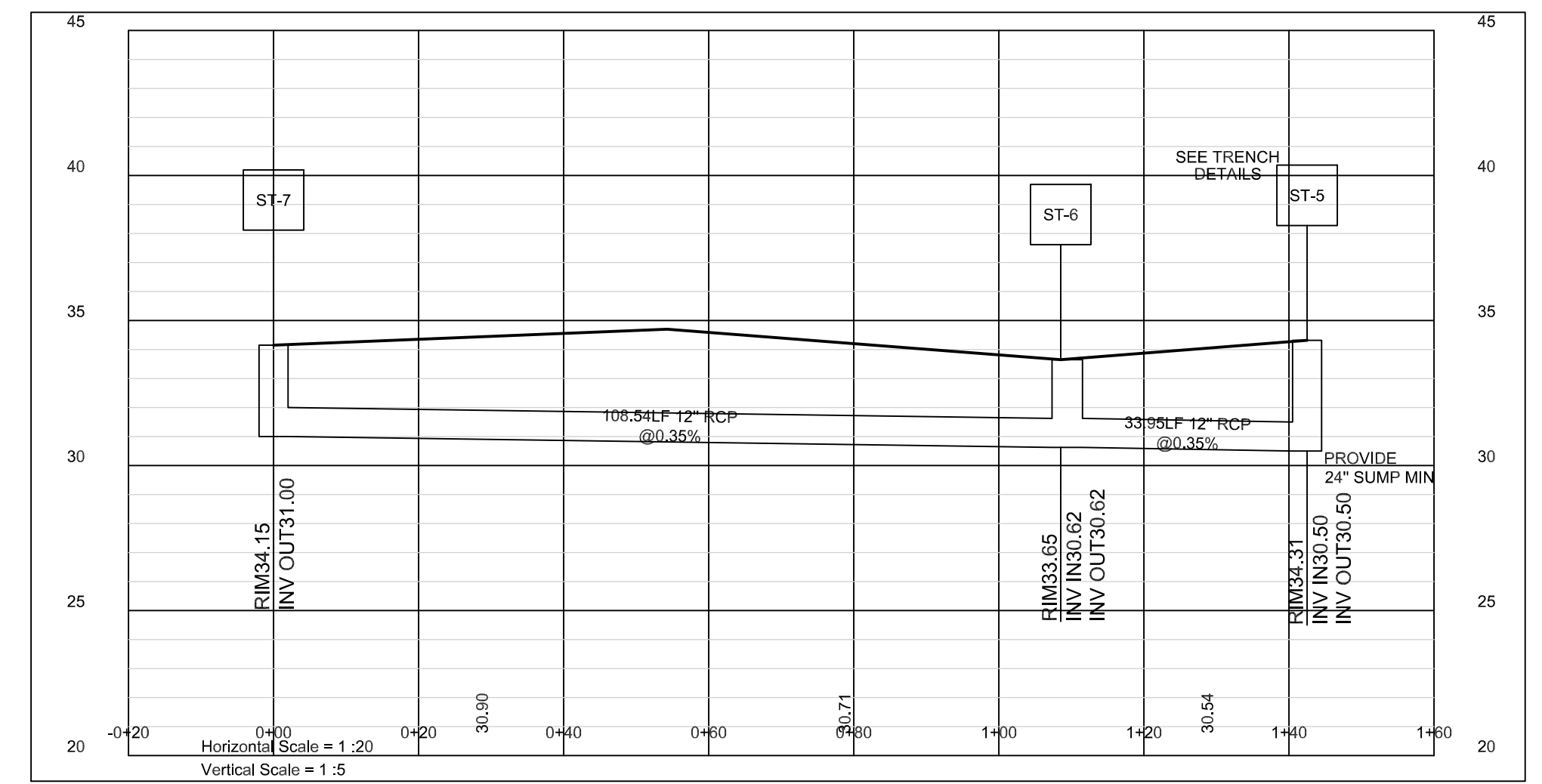
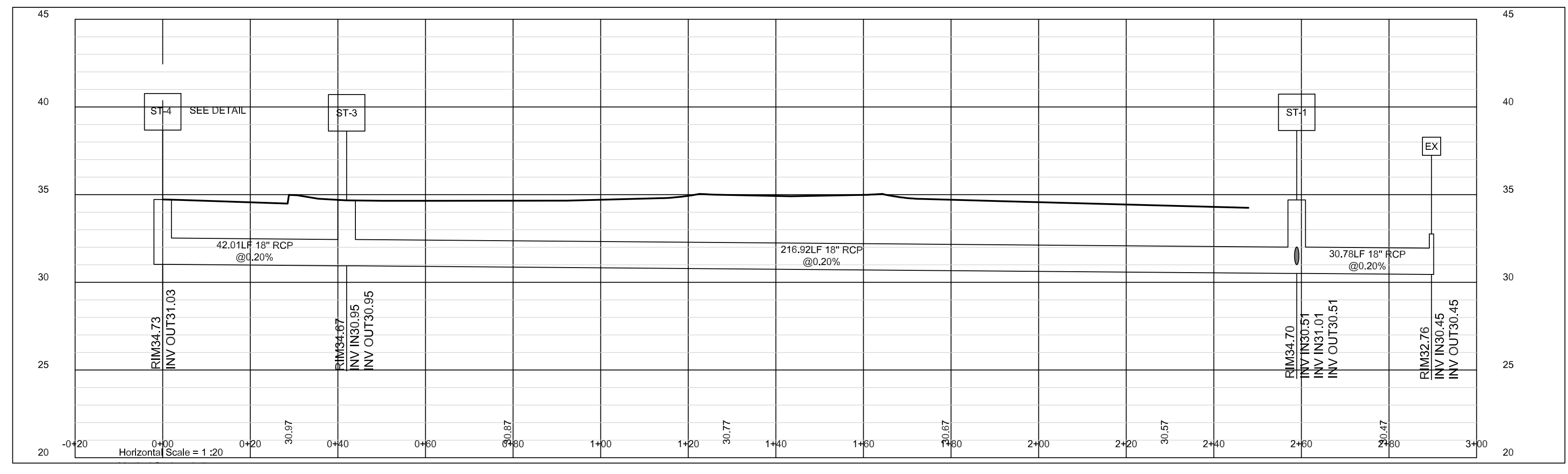
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**11**



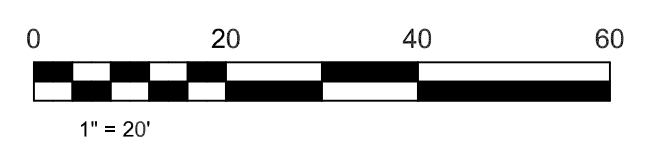
NO.	DATE	REVISIONS
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2	4-05-2022	REVISIONS ITRC COMMENTS
3	4-21-2022	REVISIONS ITRC COMMENTS

OWNER:	OTH REALTY, LLC 1701 N.J.E.L. WADE DR. WILMINGTON, N.C. 28401
Date:	5-5-2022
Scale:	HORZ.: 1" = 20'
Drawn:	gw
Checked:	gw
Project No:	4372

STORM PROFILES	OFF THE HOOK YACHT SALES N.E. CAPE FEAR RIVER FACILITY
Sheet No:	10 OR 11



PRELIMINARY PLAN





REVISIONS	DATE
1	2-03-2022
2	4-05-2022
3	4-21-2022

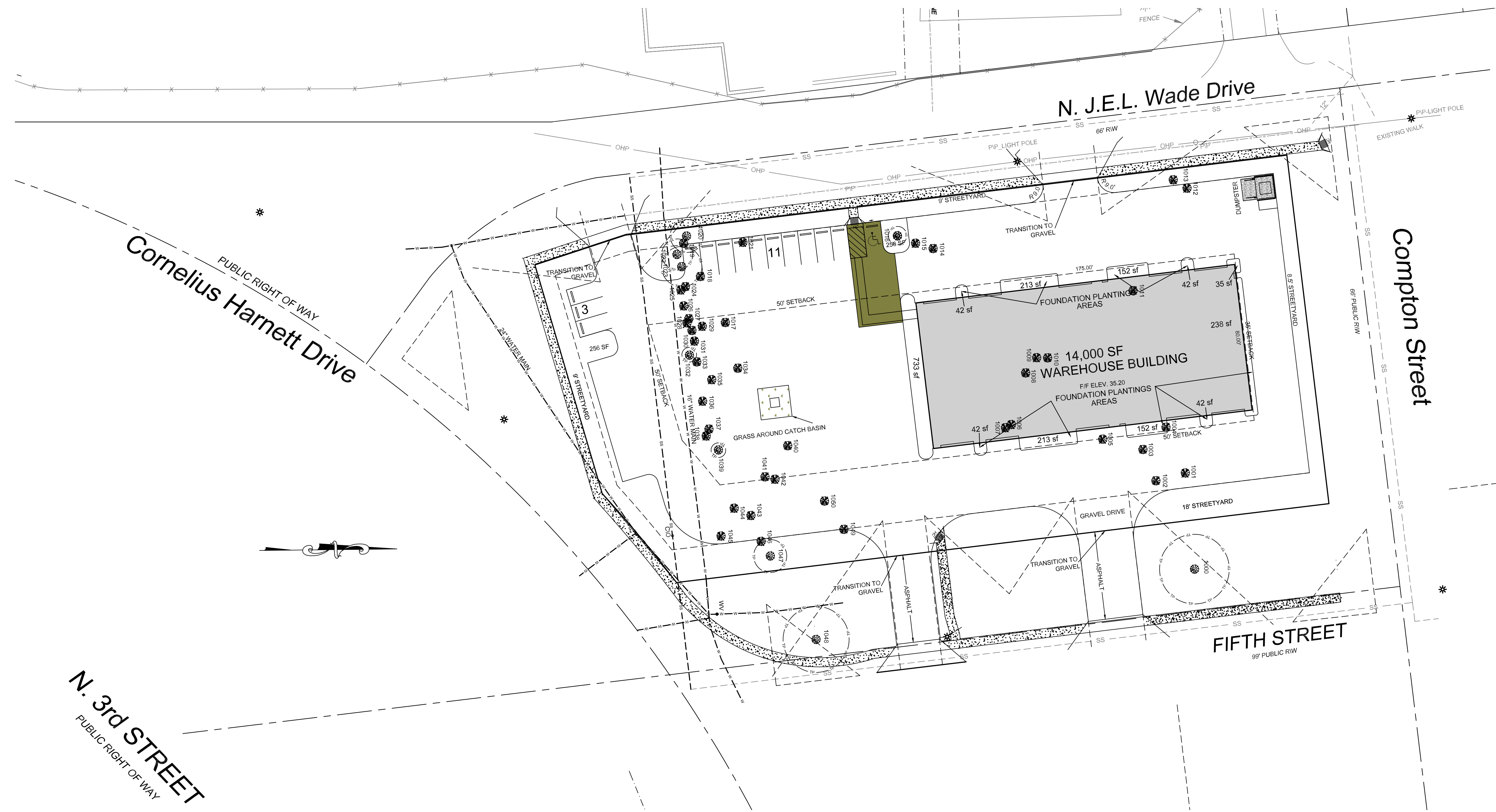
OWNER:  
**07TH REALTY, LLC**  
 0701 N. J.E.L. WADE DR.  
 WILMINGTON, N.C. 28401

Date: 5-5-2022  
 Scale: HORZ.: 1" = 30'  
 Drawn: gw  
 Checked: gw  
 Project No: 4372

**TREE SURVEY & REMOVAL PLAN**

PRELIMINARY PLAN

Sheet No:  
**11**  
 Of:  
**11**



**TREE TABLE**

1000, 38" OAK	1036, 15" OAK	1082, 22.5" OAK	1121, 17" GUM
1001, 37" OAK	1037, 14.5" OAK	1083, 20.5" OAK	1122, 16" HARDWOOD
1002, 5" MAG	1038, 14" OAK	1084, 9" OAK	1123, 16" HARDWOOD
1003, 36" OAK	1039, 20" OAK	1085, 13" OAK	1124, 50" HARDWOOD
1004, 20.5" OAK	1040, 19" OAK	1086, TRIPPLE 11" 11" 10" HARD W.	1125, 9" HARDWOOD
1005, 30" OAK	1041, 25" OAK	1087, 11" HARDWOOD	1126, TRIPPLE 8.5" 5" HARDWOOD
1006, 8" HARDWOOD	1042, 20" OAK	1088, 9" HARDWOOD	1127, 10" HARDWOOD
1007, TWIN 9" 10" HARDWOOD	1043, 21" OAK	1089, 10" HARDWOOD	1128, 12" HARDWOOD
1008, 9.5" HARDWOOD	1044, 24" OAK	1090, 20" HARDWOOD	1129, 15" HARDWOOD
1009, 12" HARDWOOD	1045, 32" OAK	1091, 15" HARDWOOD	1130, 15" HARDWOOD
1010, 8" HARDWOOD	1046, 20.5" OAK	1092, 24" HARDWOOD	1131, 9" HARDWOOD
1011, 8.5" MAG	1047, 18.5" OAK	1093, TWIN 12" 10" HARD W.	1132, 9" HARDWOOD
1012, 10" HARDWOOD	1048, 38" OAK	1094, 14" HARDWOOD	1133, 13" HARDWOOD
1013, TWIN 9" 7" HARDWOOD	1049, 18.5" HARDWOOD	1095, 26" HARDWOOD	1134, TWIN 21" 16" HARDWOOD
1014, 9" HARDWOOD	1050, 14" HARDWOOD	1096, 23" HARDWOOD	1135, 24.5" HARDWOOD
1015, 9" HARDWOOD	1051, 24" OAK	1097, 18" HARDWOOD	1136, 22" HARDWOOD
1016, 10" HARDWOOD	1052, 18.5" OAK	1098, 19" GUM	1137, 19" HARDWOOD
1017, 19" OAK	1053, 10" OAK	1099, 10.5" OAK	1138, 15" OAK
1018, 19" OAK	1054, 17" OAK	1100, 34.5" OAK	1140, 30.5" HARDWOOD
1019, 19" OAK	1055, 11.5" OAK	1101, 15.5" HARDWOOD	1141, 9" HARDWOOD
1020, 19" OAK	1056, 8.5" OAK	1102, 14" OAK	1142, 11" HARDWOOD
1021, 8.5" HARDWOOD	1057, 14.5" OAK	1103, 15" OAK	1143, TWIN 9.5" 8" GUM
1022, 7" OAK	1058, 18.5" OAK	1104, TWIN 22.5" 12.5" OAK	1144, 9" HARDWOOD
1023, 22" OAK	1059, 19" OAK	1105, 19" OAK	
1024, TWIN 14" 12" OAK	1060, 12.5" OAK	1106, 12.5" OAK	
1025, 22" OAK	1061, 27" OAK	1107, 8.5" OAK	
1026, 13.5" OAK	1062, 16" OAK	1108, 13.5" HARDWOOD	
1027, 8.5" OAK	1063, 10" HARDWOOD	1109, 13.5" HARDWOOD	
1028, 17.5" OAK	1064, 20" OAK	1110, 13.5" HARDWOOD	
1029, 11.5" OAK	1065, 19" HARDWOOD	1111, 34" HARDWOOD	
1030, 7" MAG	1066, 19" HARDWOOD	1112, 38" HARDWOOD	
1031, 23" OAK	1067, 15" OAK	1113, TWIN 6.5" 9" HARD W.	
1032, 20.5" OAK	1068, 12" OAK	1114, TRIPPLE 7.5" 11" 9" HARD W.	
1033, TWIN 12" 19.5" OAK	1069, 9" OAK	1115, 9" HARDWOOD	
1034, 9.5" OAK	1070, 12" OAK	1116, 12.5" HARDWOOD	
1035, 24" OAK	1071, 15" OAK	1117, 3" HARDWOOD	
	1072, 12" OAK	1118, 24" HARDWOOD	
	1073, 9" OAK	1119, 10" HARDWOOD	
	1074, 15" OAK		
	1075, 12" OAK		
	1076, 9" OAK		
	1077, 15" OAK		
	1078, 12" OAK		
	1079, 9" OAK		
	1080, 8" OAK		
	1081, 20.5" OAK		

1016, 10" HARDWOOD DENOTES RETAINAGE TREES  
 TREE PROTECTION FENCE





PROJECT INFORMATION: ENGINEERED BY HANOVER DESIGN SERVICES, P.A. PROJECT NO. YACHT AREA-2 WILMINGTON, NC. Includes SiteAssist QR code and SC-310 Stormtech Chamber Specifications. Section 1: Chambers shall be Stormtech SC-310. Section 2: Chambers shall be backfilled with a dozer or excavator. Section 3: Chambers shall meet requirements of ASTM F2022. Section 4: Chambers shall provide continuous unobstructed internal space. Section 5: Structural design of chambers. Section 6: Requirements for handling and installation. Section 7: Requirements for backfill and compaction. Section 8: Chambers and end caps shall be produced at a certified manufacturing facility.

SC-310 ISOLATOR ROW PLUS DETAIL. Includes inspection and maintenance procedures. Section 1: Inspect isolator row plus for sediment. Section 2: Clean out isolator row plus using the jetvac process. Section 3: Replace all covers, gates, filters, and lids. Section 4: Inspect and clean basins and manholes upstream of the stormtech system. Includes a table for Part #, Stub, A, B, and C dimensions for various chamber sizes.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS. Table with columns: MATERIAL LOCATION, DESCRIPTION, AASHTO MATERIAL CLASSIFICATIONS, COMPACTION / DENSITY REQUIREMENT. Includes a cross-section diagram showing the chamber assembly with notes on geosynthetic placement and backfilling. Notes cover requirements for materials, construction equipment, and handling.

UNDERDRIN DETAIL and SC-310 TECHNICAL SPECIFICATION. Includes diagrams of underdrin sections A-A and B-B. Technical specifications for chamber storage and installation. Includes a table for Part #, Stub, A, B, and C dimensions for various chamber sizes.



PRELIMINARY PLAN. OFF THE HOOK YACHT SALES. N.E. CAPE FEAR RIVER FACILITY. Includes project information, revision history, and sheet identification (TD-1, TD-2).



# TRENCH-1

PROPOSED LAYOUT		PROPOSED ELEVATIONS		PART TYPE	ITEM ON LAYOUT	DESCRIPTION	*INVERT ABOVE BASE OF CHAMBER	
NO.	DESCRIPTION	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)				INVERT	MAX FLOW
285	STORMTECH SC-310 CHAMBERS	40.33	34.33					
100	STORMTECH SC-310 END CAPS	34.33	34.33					
14	STONE ABOVE (ft)	33.83	33.83					
6	STONE BELOW (ft)	33.83	33.83					
40	STONE VOID	33.83	33.83					
11666	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	33.83	33.83					
7744	SYSTEM AREA (SF)	33.83	33.83					
433.6	SYSTEM PERIMETER (ft)	33.83	33.83					

PROPOSED LAYOUT		PROPOSED ELEVATIONS		PART TYPE	ITEM ON LAYOUT	DESCRIPTION	*INVERT ABOVE BASE OF CHAMBER	
NO.	DESCRIPTION	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)				INVERT	MAX FLOW
285	STORMTECH SC-310 CHAMBERS	40.33	34.33					
100	STORMTECH SC-310 END CAPS	34.33	34.33					
14	STONE ABOVE (ft)	33.83	33.83					
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40	STONE VOID	33.83	33.83					
11666	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	33.83	33.83					
7744	SYSTEM AREA (SF)	33.83	33.83					
433.6	SYSTEM PERIMETER (ft)	33.83	33.83					

**NOTES**

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

**ISOLATOR ROW PLUS**  
(SEE DETAIL/TYP 4 PLACES)

PLACE MINIMUM 12.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

**StormTech®**  
Chamber System

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-1  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-1  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-1  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A

# TRENCH-2

PROPOSED LAYOUT		PROPOSED ELEVATIONS		PART TYPE	ITEM ON LAYOUT	DESCRIPTION	*INVERT ABOVE BASE OF CHAMBER	
NO.	DESCRIPTION	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)				INVERT	MAX FLOW
285	STORMTECH SC-310 CHAMBERS	40.33	34.33					
100	STORMTECH SC-310 END CAPS	34.33	34.33					
14	STONE ABOVE (ft)	33.83	33.83					
6	STONE BELOW (ft)	33.83	33.83					
40	STONE VOID	33.83	33.83					
11666	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	33.83	33.83					
7744	SYSTEM AREA (SF)	33.83	33.83					
433.6	SYSTEM PERIMETER (ft)	33.83	33.83					

PROPOSED LAYOUT		PROPOSED ELEVATIONS		PART TYPE	ITEM ON LAYOUT	DESCRIPTION	*INVERT ABOVE BASE OF CHAMBER	
NO.	DESCRIPTION	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)				INVERT	MAX FLOW
285	STORMTECH SC-310 CHAMBERS	40.33	34.33					
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14	STONE ABOVE (ft)	33.83	33.83					
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11666	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	33.83	33.83					
7744	SYSTEM AREA (SF)	33.83	33.83					
433.6	SYSTEM PERIMETER (ft)	33.83	33.83					

**NOTES**

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

**ISOLATOR ROW PLUS**  
(SEE DETAIL/TYP 4 PLACES)

PLACE MINIMUM 12.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

**StormTech®**  
Chamber System

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-2  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A

4640 TRUBMAN BLVD  
1-800-733-7473

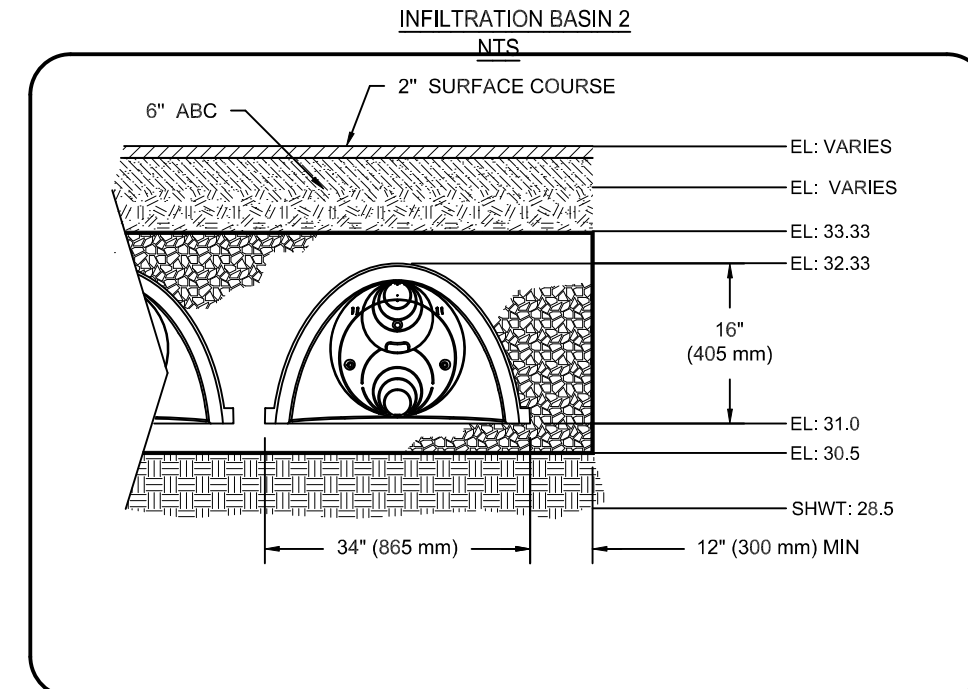
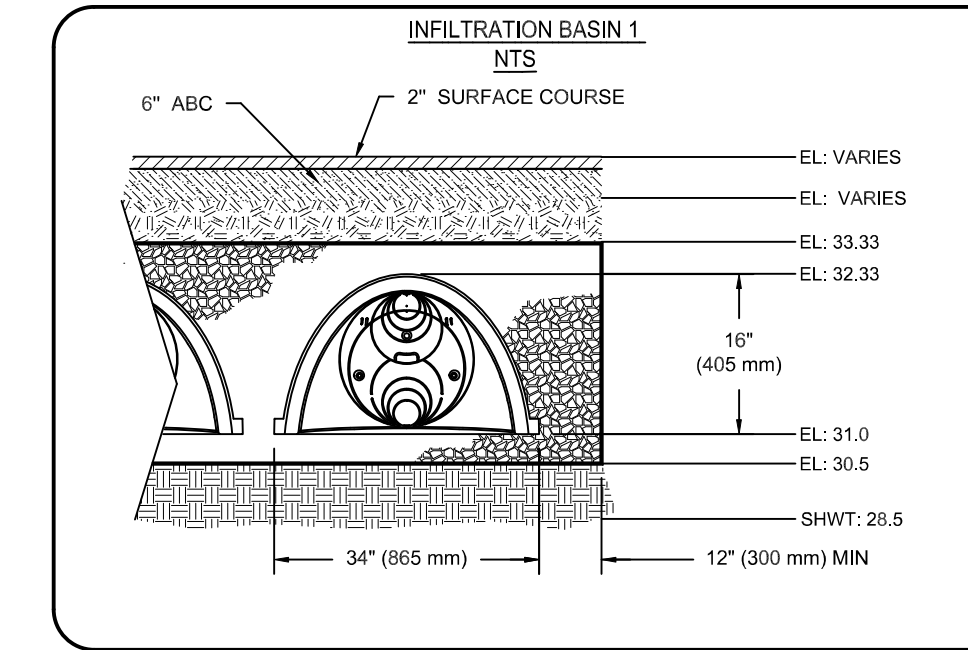
YACHT AREA-2  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A



## PRELIMINARY PLAN

**HANOVER DESIGN SERVICES, P.A.**  
LAND SURVEYING, ENGINEERING & LAND PLANNING

421-2022  
4-05-2022  
2-03-2022

REVISIONS: TRC COMMENTS  
REVISIONS: TRC COMMENTS  
REVISIONS

DATE

OWNER: **GOTH REALTY, LLC**  
170 N. JEFF LANE DR.  
WILMINGTON, NC 28401

DATE: 5-5-2022

Scale: AS SHOWN

Drawn: gw

Checked: gw

Project No: 4372

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-2  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-2  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A

4640 TRUBMAN BLVD  
1-800-733-7473

YACHT AREA-2  
WILMINGTON, NC

DATE: \_\_\_\_\_

PROJECT #: \_\_\_\_\_

DRAWN: AG

CHECKED: N/A



Sheet No:  
**TD-2**  
**TD-2**



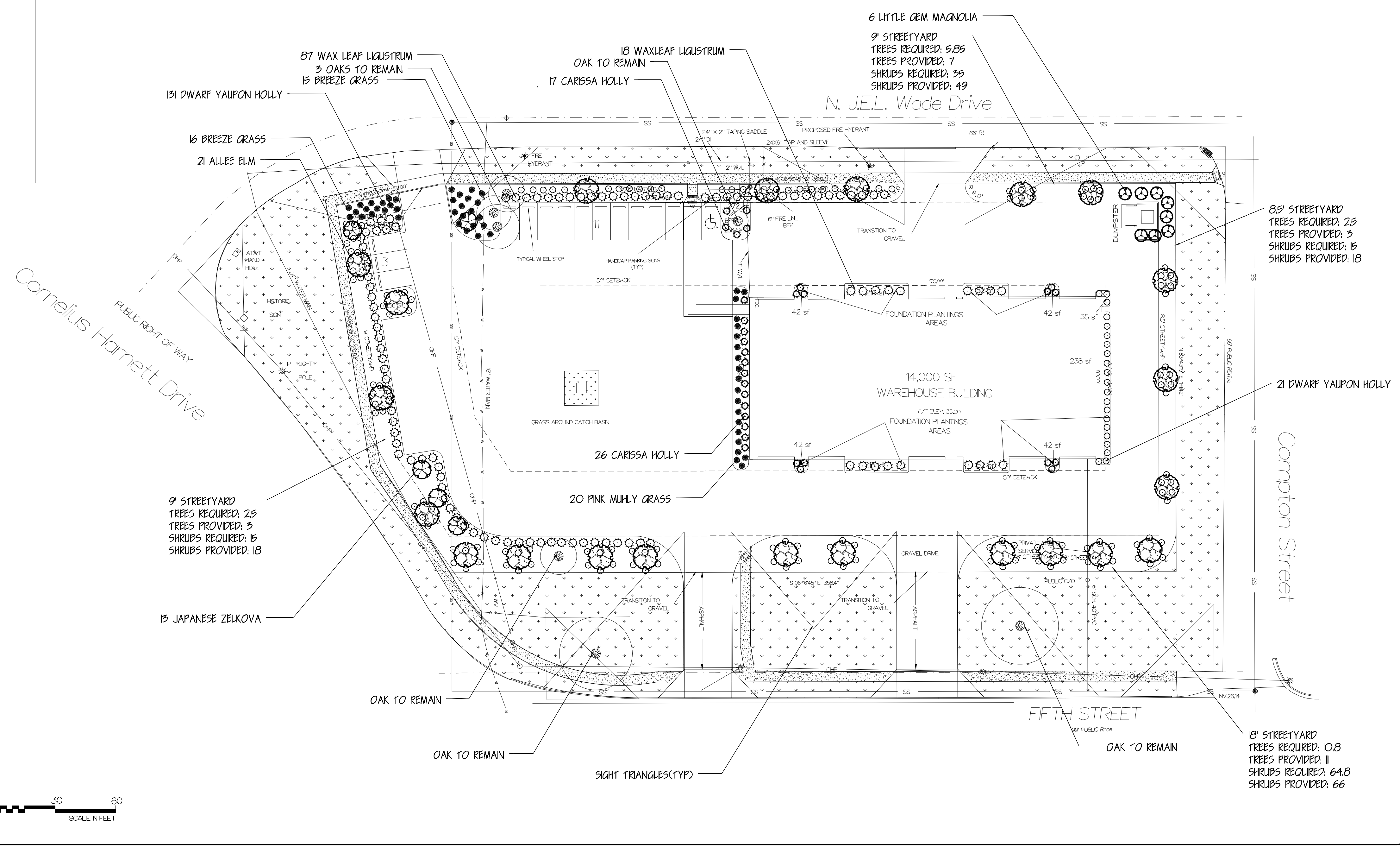
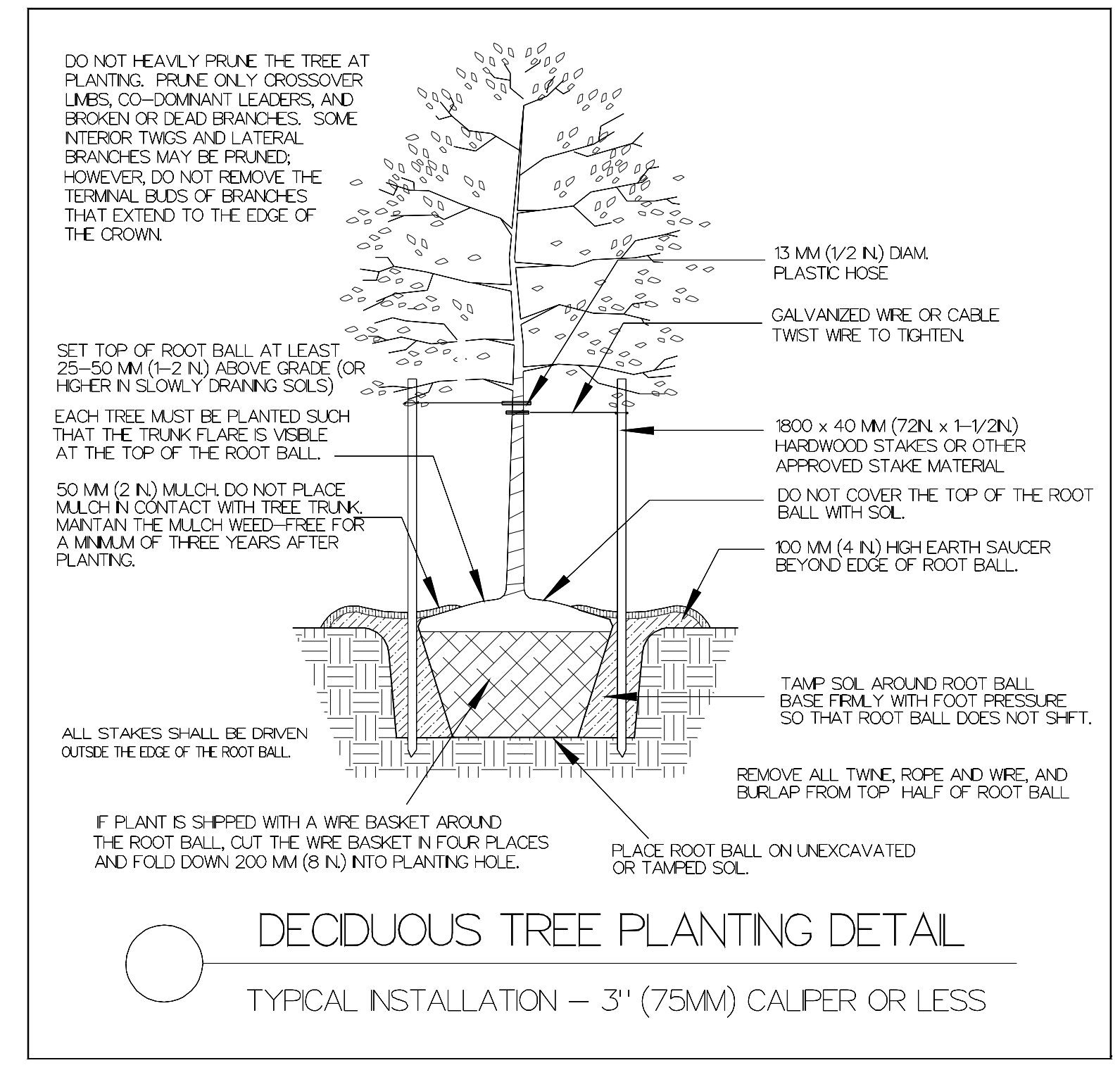
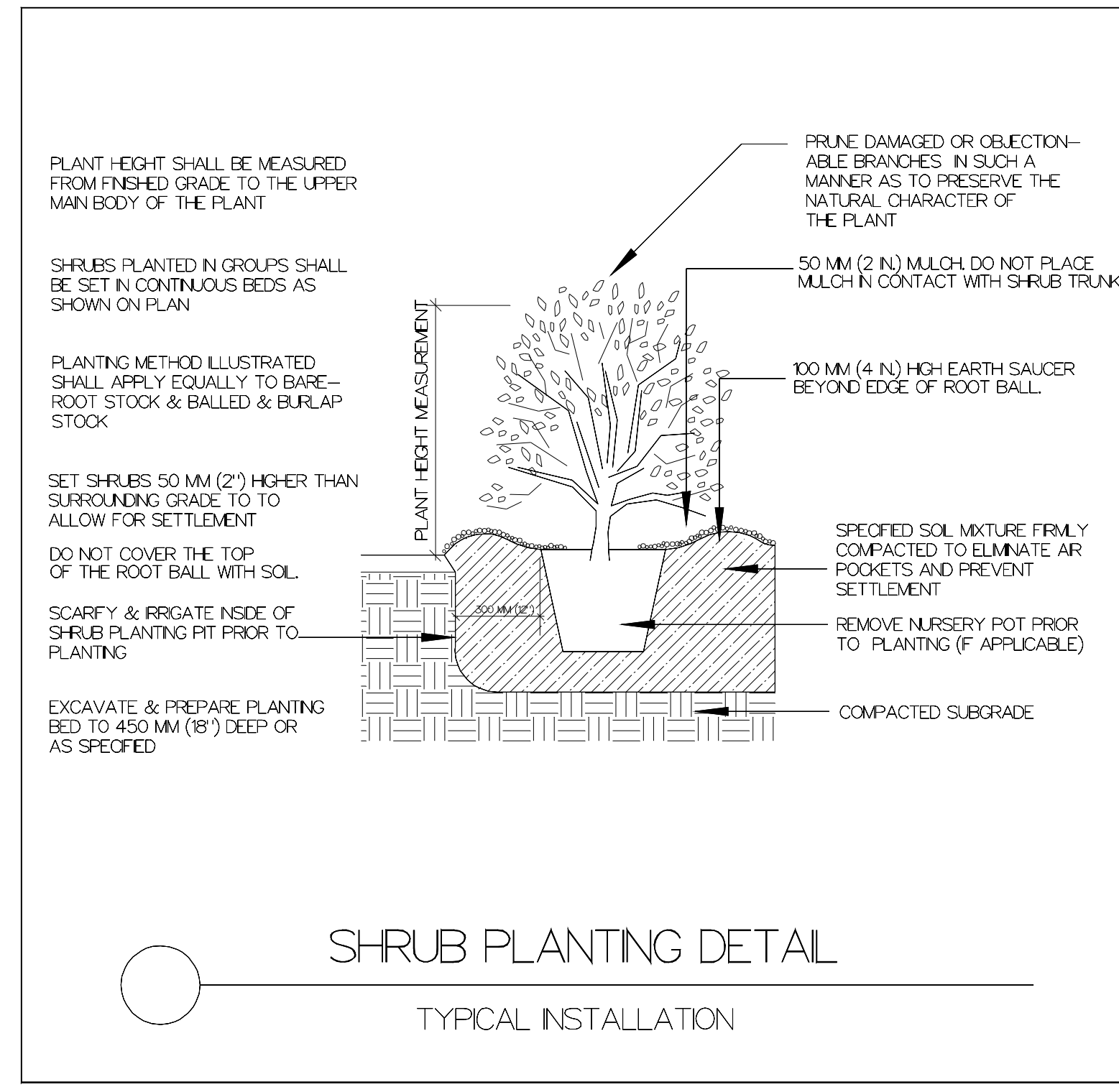
Qty	Botanical Name	Common Name	Size/Condition
<b>Trees</b>			
21	Ulmus chinensis Allee	ALLEE ELM	2" Caliper
13	Zelkova japonica	JAPANESE ZELKOVA	2" Caliper
8	Magnolia grandiflora	LITTLE GEM MAGNOLIA	8' Height
36	Ilex cornuta 'Carissa'	CARISSA CHINESE HOLLY	3G 15'H x 12'15"
153	Ilex vomitoria 'Schilling's Dwarf'	SCHILLING'S DWARF YAUPON HOLLY	3G 15'H x 12'15"
106	Ligustrum japonica	WAXLEAF LIGUSTRUM	7G 36'H x 24'15"
31	Lomandra 'Breeze'	BREEZE GRASS	3G 12'H x 12'15"
20	Muhlenbergia capillaris	PINK MUHLY GRASS	3G 12'H x 12'15"

PER 18-448, REGARDLESS OF CREDIT (15) TREES PER DISTURBED ACRE 2" OR GREATER MUST BE RETAINED OR PLANTED ON THE DISTURBED SIDE  
 REQUIRED TREES: 27  
 EXISTING TREES GREATER THAN 2" CALIPER TO REMAIN: 7/ NEW 2" CALIPER TREES TO BE PLANTED: 35

TREE NUMBER	DIAMETER	DESCRIPTION	CREDIT
1000	38"	OAK	6
1016	10"	HARDWOOD	2
1020	18"	OAK	4
1022	17"	OAK	3
1023	22"	OAK	4
1047	18.5"	OAK	4
1048	36"	OAK	6

**LANDSCAPE NOTES**

EXISTING TREES TO REMAIN  
 TREE PROTECTION FENCE TO BE INSTALLED BEFORE CONSTRUCTION BEGINS  
 NOT CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ALLOWED WITHIN THE TREE PROTECTION AREA  
 ALL DISTURBED AREAS TO BE BERMUDA SOD  
 LANDSCAPE BEDS TO BE 3" HARDWOOD MULCH  
 EXISTING TREES IN STREETYARD TO BE INCLUDED IN LANDSCAPE CALCULATIONS  
 EXISTING TREES IN LANDSCAPE ISLANDS TO BE INCLUDED IN LANDSCAPE CALCULATIONS  
 STREETYARD TREES REQUIRED: 21  
 STREETYARD TREES PROVIDED: 24  
 STREETYARD SHRUBS REQUIRED: 130  
 STREETYARD SHRUBS PROVIDED: 151  
 (INDIVIDUAL STREETYARDS NOTED ON PLAN)  
 ISLAND TREES REQUIRED: 10  
 ISLAND TREES PROVIDED: 12  
 REQUIRED CANOPY COVERAGE: 9188 SQ.FT.  
 JAPANESE ZELKOVA CANOPY: 9191 SQ. FT.  
 PROVIDED CANOPY COVERAGE: 9191 SQ. FT.  
 TOTAL FOUNDATION PLANTING REQUIRED= 1352.4 SF  
 FOUNDATION PLANTING SHOWN: 2098 SF



NOTES

**BSA**  
LANDSCAPE ARCHITECTURE

No.	Date	Description
		REVISION: 1/10/22
		REVISION: 3/1/22
		REVISION: 3/21/22
		REVISION: 4/15/22
		REVISION: 10/2/23

**SUPERSCAPES INC**  
 1202 S FRONT STREET  
 WILMINGTON NC 28401

**OFF THE HOOK**  
 YACHT SALES  
 1701 N J.E.L WADE DR  
 WILMINGTON NC

SCALE: 1"=30'	PROJECT NO.
DRAWN BY: BSI	SHEET NO. L-1
CHECKED BY:	
DATE: 10/2/2023	
DATE OF PRINT:	