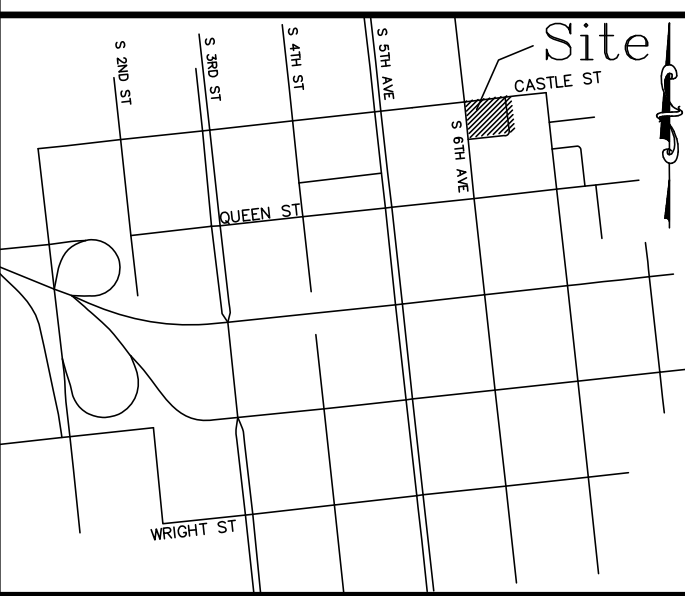


LOCATION MAP



CONSTRUCTION DRAWINGS for
THE 606
 LOCATED IN CITY OF WILMINGTON
 NEW HANOVER COUNTY, NORTH CAROLINA

GENERAL NOTES:

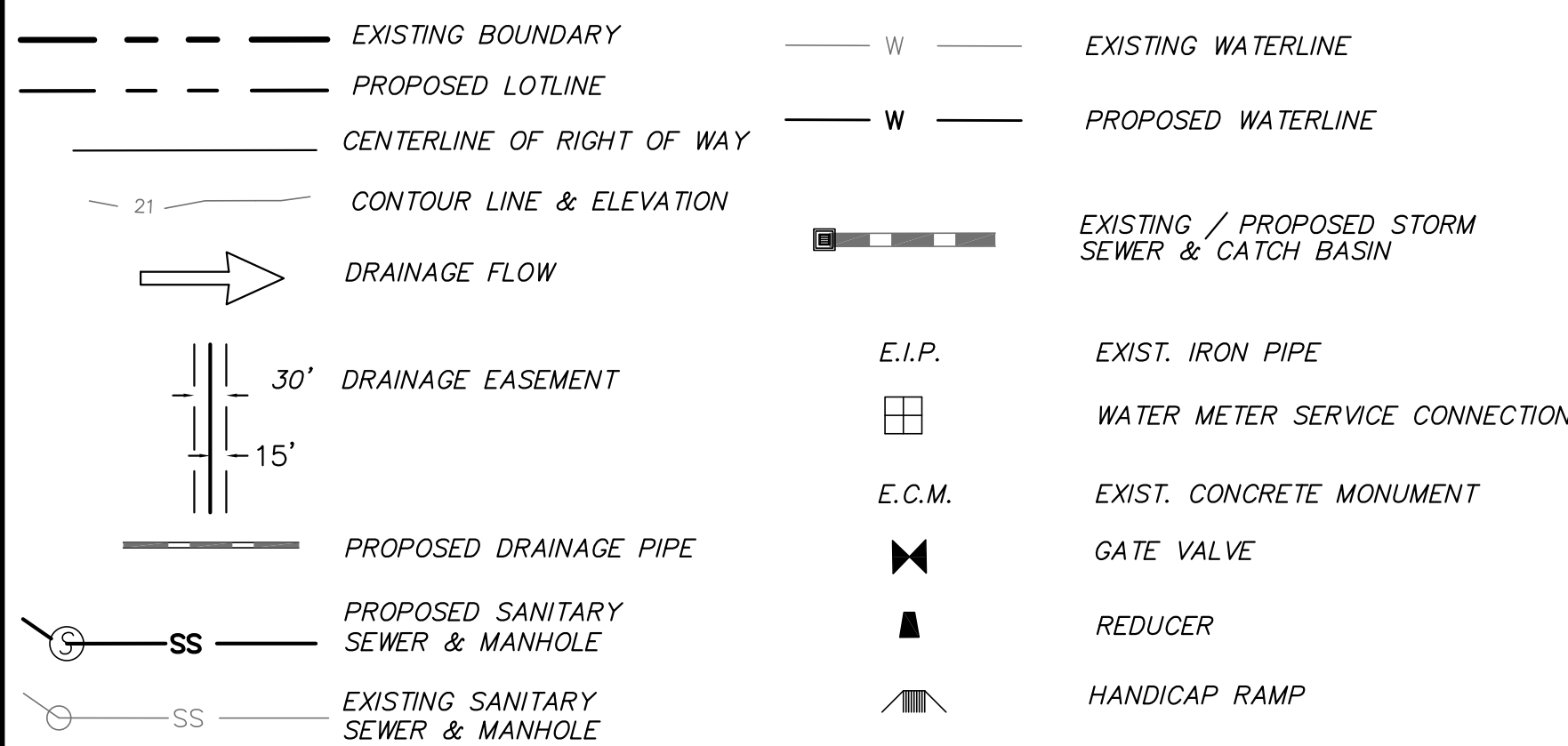
- NEW HANOVER COUNTY PARCEL NUMBERS:
 PID R05409-011-029-000, R05409-011-028-000,
 R05409-011-027-000, R05409-011-003-000,
 R05409-011-030-000, R05409-011-001-000
- TRACT 1, 2 & 7 DB 6257 PC 203
- TOTAL PROJECT AREA: 32,170 SF (0.74 AC)
- EXISTING ZONING DISTRICT: UMX
- CAMA LAND CLASSIFICATION: URBAN
- THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720312700K, EFFECTIVE DATE 8/28/18
- SITE ADDRESS: 604, 606 & 606 1/2 CASTLE STREET
- BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY HANOVER DESIGN SERVICES; VERTICAL DATUM = 88
- NO WETLANDS LOCATED ONSITE
- STORMWATER DRAINS TO NE CAPE FEAR RIVER, SC;SW 18-74-(6)
- LAND OWNER - RCG CASTLE STREET LLC
 17 IVALOO STREET SUITE 100
 SUMMERVILLE, MA 02143



INDEX TO DRAWINGS

| SHEET No. | DESCRIPTION | DRAWING No. |
|-----------|---------------------|----------------|
| 1 OF 11 | COVER SHEET | CD_COVER |
| 2 OF 11 | EXISTING CONDITIONS | EX-COND |
| 3 OF 11 | DEMO | DEMO |
| 4 OF 11 | SITE PLAN | SITE_PLAN |
| 5 OF 11 | LANDSCAPE PLAN | LP |
| 6 OF 11 | STORMWATER PLAN | SW |
| 7 OF 11 | STORMWATER DETAILS | SW_DET |
| 8 OF 11 | SITE DETAILS | SITE_DETAILS_1 |
| 9 OF 11 | SITE DETAILS | SITE_DETAILS_2 |
| 10 OF 11 | CFPUA DETAILS | CFPUA_DETAILS |
| 11 OF 11 | CFPUA DETAILS | CFPUA_DETAILS |

LEGEND



OWNER:
 RCG CASTLE STREET LLC
 17 IVALOO STREET SUITE 100
 SUMMERVILLE, MA 02143

NOTES:

- ASBUILT, BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY TO CSD ENGINEERING BY PARAMOUNT ENGINEERING; AND BATEMAN CIVIL SERVICES, VERTICAL DATUM = 88
- THIS MAP IS NOT FOR CONVEYANCE, RECORDATION, OR SALES.
- THIS PROPERTY IS LOCATED WITHIN ZONE "X" ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP, 3720311800L, EFFECTIVE DATE 8/28/18
- EXISTING ZONING: CBD
- CFPUA WATER
- CFPUA SEWER
- ALL CONSTRUCTION TO CONFORM TO CITY OF WILMINGTON STANDARDS AND APPLICABLE STATE & LOCAL CODES.
- CONTRACTOR TO COORDINATE ANY REQUIRED TRAFFIC CONTROL WITH CITY OF WILMINGTON AND OR NCDOT.
- CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO RECEIVING STRUCTURES. ROOF DRAIN DOWNSPOUTS TO BE CONNECTED TO STORM DRAINAGE STUBOUTS OR DIRECTED TO STREET/PARKING AREAS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, RE-ALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.
- CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURB, 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.
- 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 72 HOURS BEFORE COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO 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 TO ENSURE THAT PAVEMENT IS PLACED SO AS TO DRAIN POSITIVELY TO THE STREET INLETS AND CATCH BASINS. ALL FUTURE ROOF DRAIN DOWNSPOUTS TO BE DIRECTED TO THE STORM DRAINAGE STUBOUTS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
- THIS PLAN IS FOR SITE GRADING, UTILITIES, SITING, AND DRAINAGE ONLY. SEE BUILDING PLANS FOR DETAILED HOOKUPS TO BUILDINGS, ETC.
- CONTRACTOR AND BUILDER ARE RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATION OF ALL BUILDINGS WITH THE OWNER. ELEVATIONS GIVEN ARE MINIMUM GROUND ELEVATIONS AT THE BUILDING SITE AND DO NOT PURPORT TO BE FINISHED FLOOR. MINIMUM RECOMMENDED FF ELEVATIONS SHOWN ON PLANS.
- AFFECTED NON-MUNICIPAL UTILITIES SHALL BE CONTACTED AND PROVIDED WITH PLANS AND OTHER PERTINENT INFORMATION, WHEN FEASIBLE, TO COORDINATE APPROPRIATE SCHEDULING AND PLACEMENT.
- EXTREME CARE SHALL BE TAKEN TO ENSURE MINIMUM SEPARATIONS AT ALL UTILITY CROSSINGS.
- MINIMUM SEPARATION SHALL BE MAINTAINED AS FOLLOWS:
 - HORIZONTAL SEPARATION OF 10 FEET BETWEEN SANITARY SEWER AND WATER MAINS AND STORM SEWER.
 - WHERE VERTICAL CLEARANCE IS LESS THAN 24" 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.
 - 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 FEET EITHER SIDE OF CROSSING.
 - WHERE VERTICAL CLEARANCE IS LESS THAN 12" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING, AND BRIDGING SHALL BE INSTALLED PER APPLICABLE UTILITY AUTHORITY'S DETAILS.
 - IN NO CASE SHALL THERE BE LESS THAN 18" OF SEPARATION BETWEEN OUTSIDE OF WATER MAIN AND OUTSIDE OF SEWER OR STORM DRAINAGE.
 - MINIMUM COVER OF 36" SHALL BE PROVIDED FOR ALL BURIED WATER MAINS AND SANITARY SEWER MAINS.
- SEE DETAIL SHEETS FOR TYPICAL UTILITIES HOOKUPS.
- 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.



LICENSE # C-2710
 ENGINEERING
 LAND PLANNING
 COMMERCIAL / RESIDENTIAL

P.O. BOX 4041
 WILMINGTON, NC 28406
 (910) 791-4441

COVER SHEET
THE 606

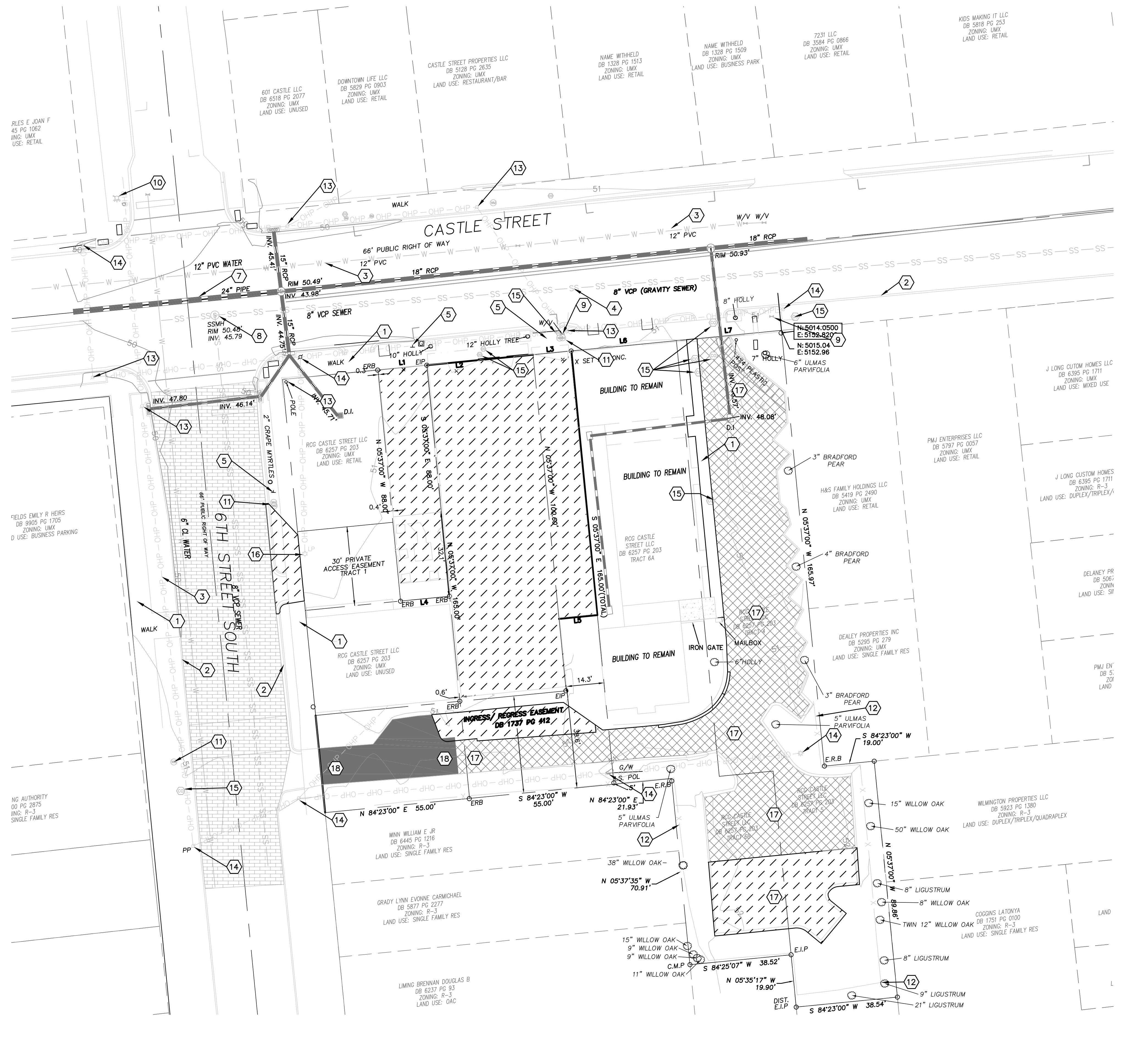
COVER SHEET
THE 606
 LOCATED IN CITY OF WILMINGTON
 NEW HANOVER COUNTY, NORTH CAROLINA

OWNER: RCG CASTLE STREET LLC
 17 IVALOO STREET SUITE 100
 SUMMERVILLE, MA 02143

PRELIMINARY

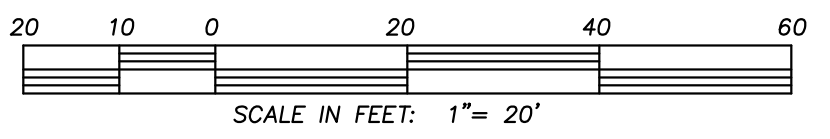
| REV. | DATE | BY | REMARKS |
|------|----------|-----|---------------------------|
| 2 | 10-5-22 | RLW | REVISION FOR IFC COMMENTS |
| 1 | 11-29-22 | RLW | REVISION FOR IFC COMMENTS |

DATE: 10-5-22
 HORZ. SCALE: 1" = 200'
 VERT. SCALE: N/A
 DRAWN BY: RLW
 CHECKED BY: HSR
 PROJECT NO.: 22-0625



LEGEND

- EXISTING BOUNDARY
- W- EXISTING WATER
- SS- EXISTING SEWER
- ⊕ EXISTING POWER POLE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING STORM WATER MANHOLE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING GAS VALVE
- ⊕ EXISTING WATER VALVE
- EXISTING CONTOUR
- EXISTING STORM DRAIN
- ▨ EXISTING TO BE DEMOED
- EXISTING ASPHALT TO REMAIN



GENERAL NOTES:

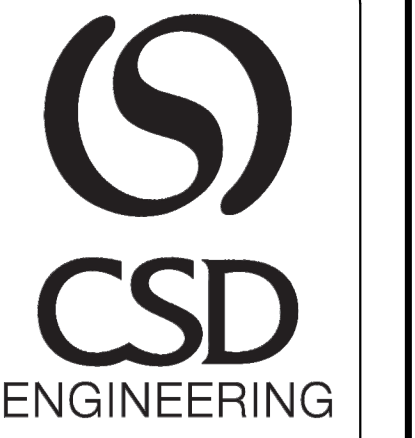
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PID R05409-011-029-000, R05409-011-028-000,
R05409-011-027-000, R05409-011-003-000,
R05409-011-030-000, R05409-011-001-000
2. TRACT 1, 2 & 7 DB 6257 PG 203
3. TOTAL PROJECT AREA: 32,170 SF (0.74 AC)
4. EXISTING ZONING DISTRICT: UMX
5. CAMA LAND CLASSIFICATION: URBAN
6. THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720312700K, EFFECTIVE DATE 8/28/18
7. SITE ADDRESS: 604, 606 & 606 1/2 CASTLE STREET
8. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY HANOVER DESIGN SERVICES; VERTICAL DATUM = 88
9. NO WETLANDS LOCATED ONSITE
10. STORMWATER DRAINS TO NE CAPE FEAR RIVER, SC;SW 18-74-(61)
- LAND OWNER - RCC CASTLE STREET LLC
17 IVALOO STREET SUITE 100
SUMMERSVILLE, MA 02143

TREE SAVE/REMOVE:

- | | |
|------------------------------|------------------------------|
| 1. TREE SAVE: | 2. TREE REMOVE: |
| TREE 1: 6" ULMAS PARVIFOLIA | TREE 9: 8" LIGUSTRUM |
| TREE 2: 3" BRADFORD PEAR | TREE 10: 8" WILLOW OAK |
| TREE 3: 4" BRADFORD PEAR | TREE 11: TWIN 12" WILLOW OAK |
| TREE 4: 3" BRADFORD PEAR | |
| TREE 5: 5" ULMAS PARVIFOLIA | |
| TREE 6: 6" HOLLY | |
| TREE 7: 15" WILLOW OAK | |
| TREE 8: 50" WILLOW OAK | |
| TREE 12: 8" LIGUSTRUM | |
| TREE 13: 9" LIGUSTRUM | |
| TREE 14: 21" LIGUSTRUM | |
| TREE 15: 11" WILLOW OAK | |
| TREE 16: 9" WILLOW OAK | |
| TREE 17: 9" WILLOW OAK | |
| TREE 18: 15" WILLOW OAK | |
| TREE 19: 38" WILLOW OAK | |
| TREE 20: 5" ULMAS PARVIFOLIA | |

KEYNOTES:

- 1 EXISTING SIDEWALK
- 2 EXISTING CURB AND GUTTER
- 3 EXISTING WATER
- 4 EXISTING SEWER
- 5 EXISTING STREET SIGN
- 6 EXISTING STREET POLE
- 7 EXISTING STORM DRAIN
- 8 EXISTING MANHOLE
- 9 EXISTING WATER VALVE
- 10 EXISTING FIRE HYDRANT
- 11 EXISTING WATER METER
- 12 EXISTING FENCE TO BE DEMOED
- 13 EXISTING STREET LIGHT
- 14 EXISTING POWER POLE
- 15 EXISTING SEWER CLEANOUT
- 16 EXISTING POLE TO BE MOVED
- 17 EXISTING PERVIOUS CONCRETE
- 18 EXISTING ASPHALT



LICENSE # C-2710
ENGINEERING
LAND PLANNING
COMMERCIAL / RESIDENTIAL

P.O. BOX 4041
WILMINGTON, NC 28406
(910) 791-4441

EXISTING CONDITIONS
THE 606

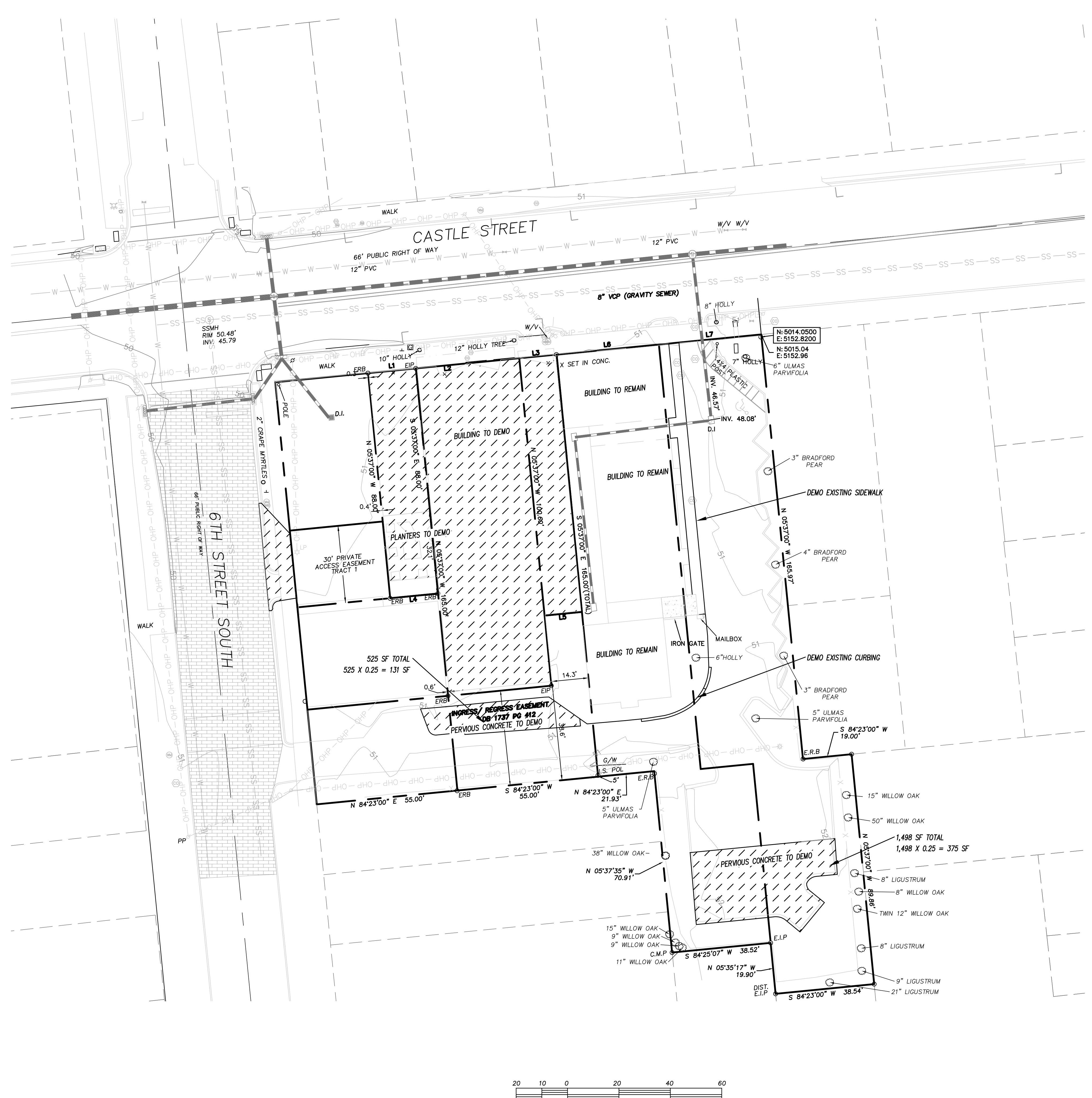
EXISTING CONDITIONS
THE 606
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER: RCC CASTLE STREET LLC
17 IVALOO STREET SUITE 100
SUMMERSVILLE, MA 02143

PRELIMINARY

| REV. NO. | DATE | BY | REMARKS |
|----------|----------|-----|-------------------------------|
| 2 | 10-5-22 | RLW | REVISION PER IRC COMMENTS |
| 1 | 11-29-22 | RLW | REVISION PER PRE-IRC COMMENTS |

DATE: 10-5-22
HORIZ. SCALE: 1" = 20'
VERT. SCALE: N/A
DRAWN BY: RLW
CHECKED BY: HSR
PROJECT NO.: 22-0625



GENERAL NOTES:

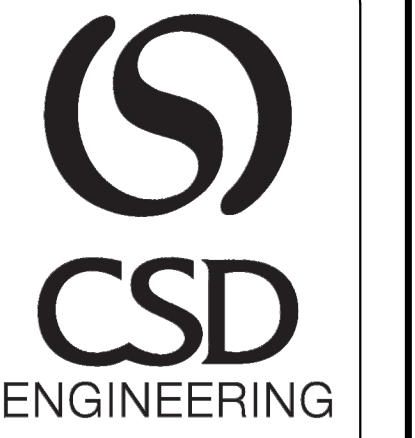
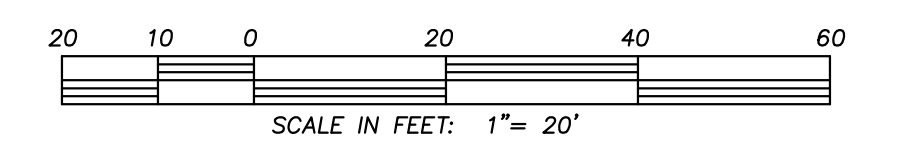
1. NEW HANOVER COUNTY PARCEL NUMBERS:
PID R05409-011-029-000, R05409-011-028-000,
R05409-011-027-000, R05409-011-003-000,
R05409-011-030-000, R05409-011-001-000
2. TRACT 1, 2 & 7 DB 6257 PG 203
3. TOTAL PROJECT AREA: 35,364 SF (0.81 AC)
4. EXISTING ZONING DISTRICT: UMB
5. CAMA LAND CLASSIFICATION: URBAN
6. THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720312700K, EFFECTIVE DATE 8/28/18
7. SITE ADDRESS: 604, 606 & 606 1/2 CASTLE STREET
8. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED AND PROVIDED TO CSD ENGINEERING BY HANOVER DESIGN SERVICES; VERTICAL DATUM = 88
9. NO WETLANDS LOCATED ONSITE
10. STORMWATER DRAINS TO NE CAPE FEAR RIVER, SC; SW 18-74-(61)

EXISTING IMPERVIOUS FOR DEMO:

| | | |
|----------------------------|----------|-----------------|
| BUILDING | = | 7,421 SF |
| ASPHALT | = | 0 SF |
| *PERVIOUS CONCRETE (2,023) | = | 506 SF |
| SIDEWALK | = | 420 SF |
| TOTAL: | = | 8,347 SF |

LEGEND

- EXISTING BOUNDARY
- W- EXISTING WATER
- SS- EXISTING SEWER
- ⊕ EXISTING POWER POLE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING STORM WATER MANHOLE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING GAS VALVE
- ⊕ EXISTING WATER VALVE
- EXISTING CONTOUR
- EXISTING STORM DRAIN
- ▨ EXISTING TO BE DEMOED



LICENSE # C-2710
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(910) 791-4441

DEMO THE 606

No warranty is made by CSD ENGINEERING, INC. for any use of this drawing, or any part of a project, not intended by the Engineer. Liability for professional services shall be limited to the scope and nature of the project, which is stated in the title block.

DEMO THE 606
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER: RCC CASTLE STREET LLC
17 WALDOO STREET SUITE 100
SUMMERVILLE, MA 02143

PRELIMINARY

| REV. NO. | BY | DATE | REMARKS |
|----------|-----|----------|---------|
| 2 | RLW | 3-1-23 | |
| 1 | RLW | 11-29-22 | |

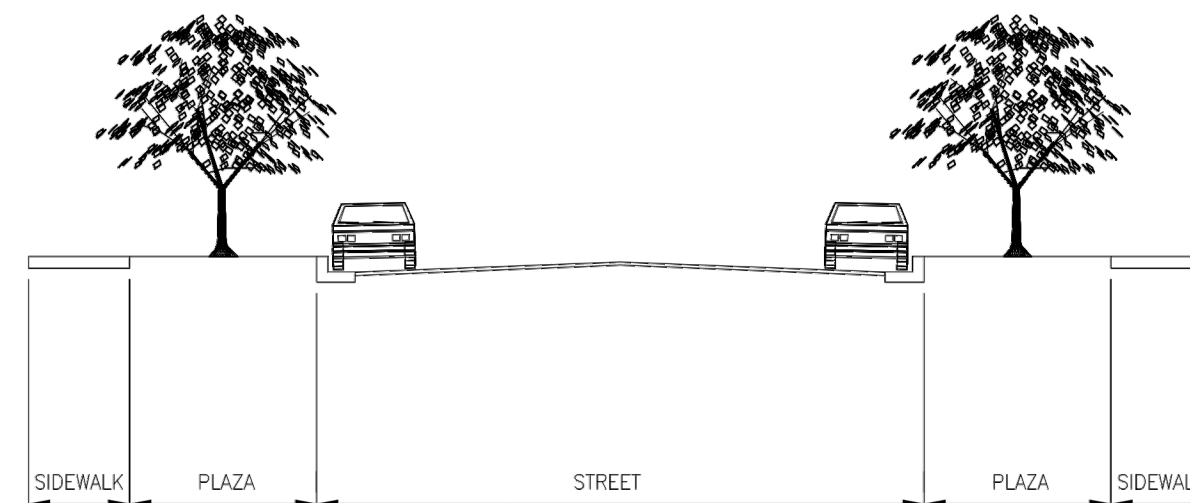
DATE: 10-5-22
HORIZ. SCALE: 1" = 20'
VERT. SCALE: N/A
DRAWN BY: RLW
CHECKED BY: HSR
PROJECT NO.: 22-0625

- No plantings over thirty (30) inches in height allowed in vision clearance.
- Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.
- Owner is responsible for maintenance to ensure plant material lives and prospers.
- Planting plans shall be approved by Landscape Designer prior to installation.
- Landscaping shall be required at the ends of all parking rows.
- A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.
- Landscaped islands shall be a minimum width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.
- A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.
- For recommended Plant List see "Landscape" T-10.4.

| | | | |
|-----------------|--------------|---|----------|
| STANDARD DETAIL | | <p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p> | SD 15-14 |
| LANDSCAPE NOTES | | | |
| DATE: | APRIL, 2008 | | |
| DRAWN BY: | JSR | | |
| CHECKED BY: | B.P., P.E. | | |
| SCALE: | NOT TO SCALE | | |

RESIDENTIAL STREET TREE STANDARDS

- Street trees shall be installed along residential streets after all driveways have been installed.
- The developer shall notify Landscape Designer prior to installation to ensure proper tree selection and spacing.
- Each tree shall be a minimum of two (2) caliper inches.
- Phasing of a project shall be permitted, however, Street Trees on the same block shall be planted at the same time to avoid size irregularities.
- Trees within the same block shall be the same species.



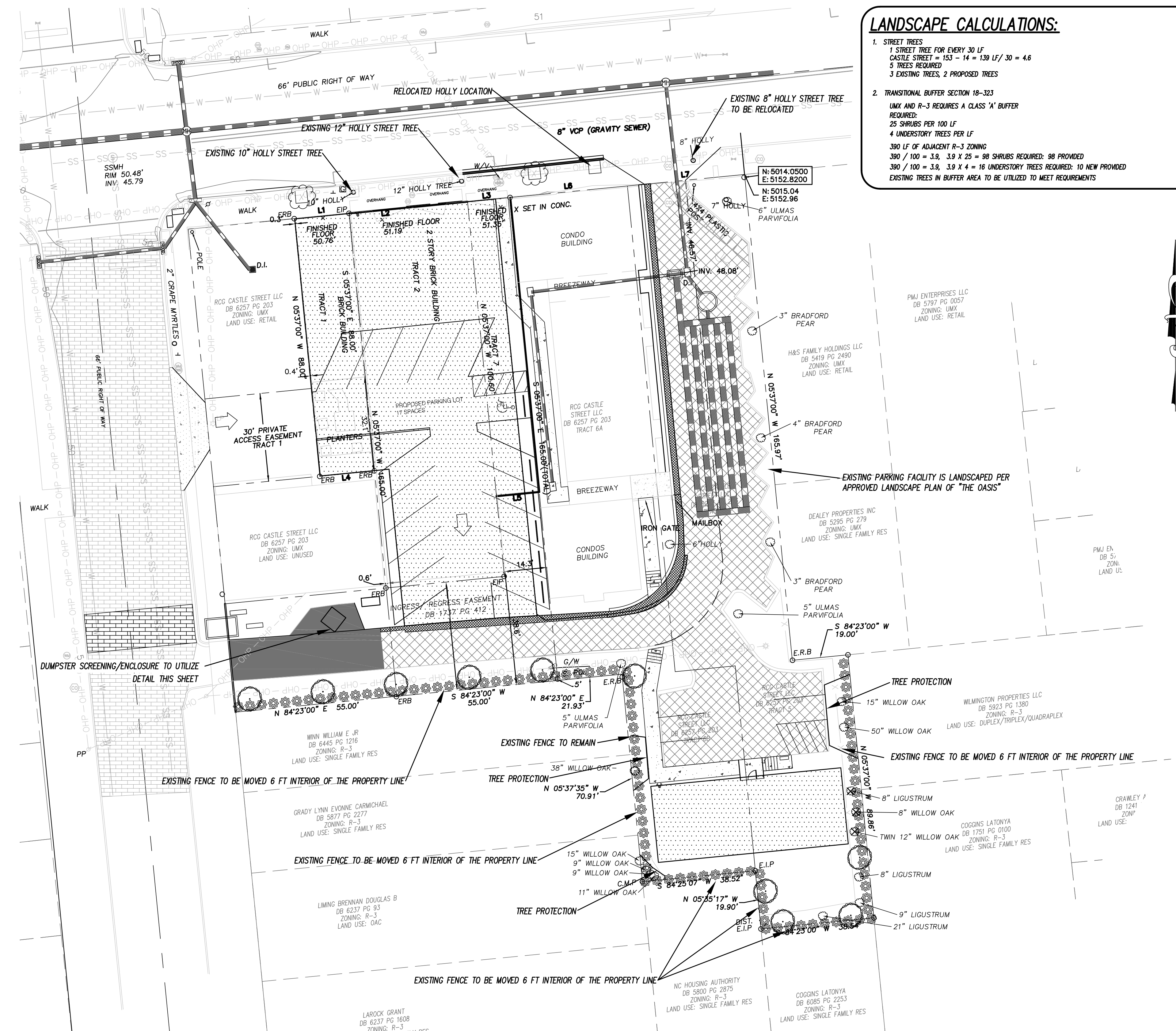
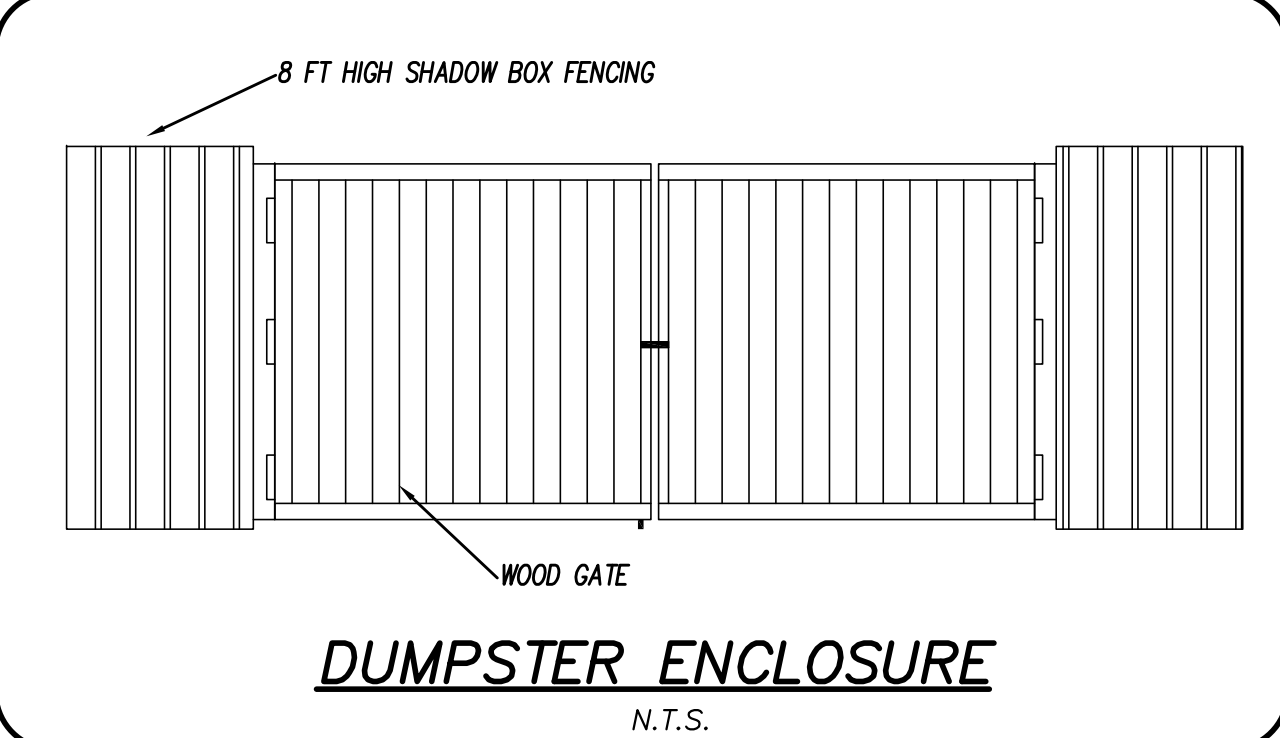
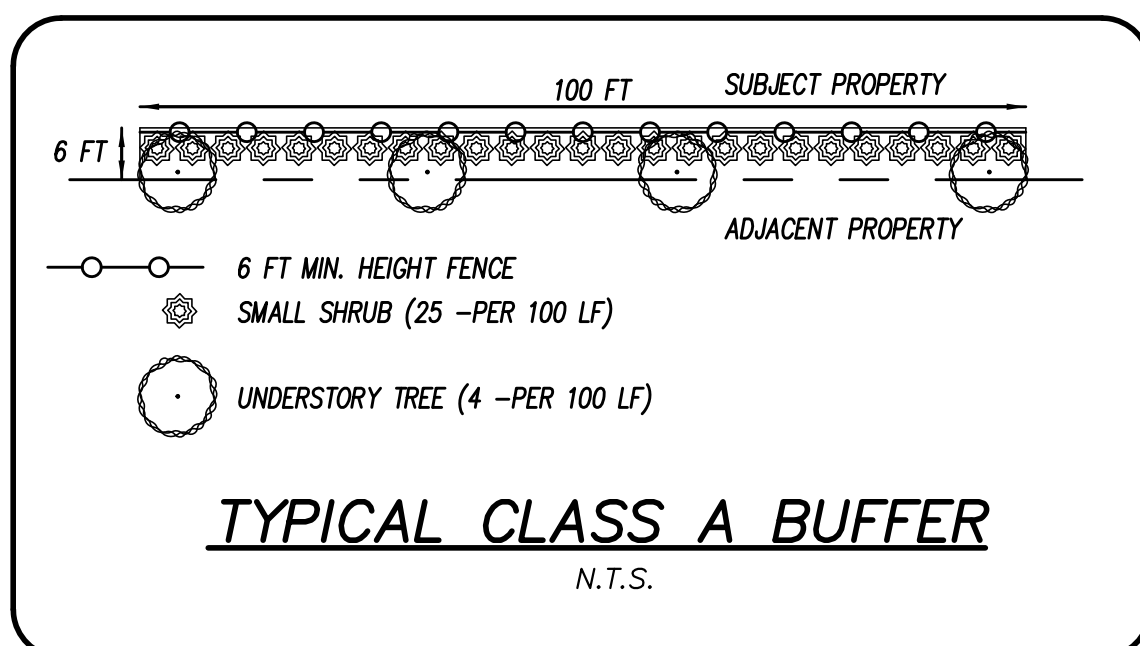
RECOMMENDED STREET TREE SPACING ACCORDING TO PLAZA WIDTHS

| | | |
|------------------------------------|--|--|
| 4'-6' ex. CREPE MYRTLE HOLLY | 6'-8' ex. JAPANESE MAPLE ZELKOVA | GREATER THAN 8' ex. DARLINGTON OAK RED MAPLE |
| 25'-30' SPACING | 35'-40' SPACING | 50' SPACING |

| | | | |
|-----------------------------------|--------------|---|----------|
| STANDARD DETAIL | | <p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p> | SD 15-17 |
| RESIDENTIAL STREET TREE STANDARDS | | | |
| DATE: | 2006 | | |
| DRAWN BY: | JSR | | |
| CHECKED BY: | B.P., P.E. | | |
| SCALE: | NOT TO SCALE | | |

TREE SAVE/REMOVE:

- | | |
|---|--|
| <ol style="list-style-type: none"> TREE SAVE: TREE 1: 6" ULMAS PARVIFOLIA TREE 2: 3" BRADFORD PEAR TREE 3: 4" BRADFORD PEAR TREE 4: 3" BRADFORD PEAR TREE 5: 5" ULMAS PARVIFOLIA TREE 6: 6" HOLLY TREE 7: 15" WILLOW OAK TREE 8: 50" WILLOW OAK TREE 9: 8" LIGUSTRUM TREE 10: 8" WILLOW OAK TREE 11: TWIN 12" WILLOW OAK TREE 12: 8" LIGUSTRUM TREE 13: 9" LIGUSTRUM TREE 14: 21" LIGUSTRUM TREE 15: 11" WILLOW OAK TREE 16: 9" WILLOW OAK TREE 17: 9" WILLOW OAK TREE 18: 15" WILLOW OAK TREE 19: 38" WILLOW OAK TREE 20: 5" ULMAS PARVIFOLIA | <ol style="list-style-type: none"> TREE REMOVE: TREE 9: 8" LIGUSTRUM TREE 10: 8" WILLOW OAK TREE 11: TWIN 12" WILLOW OAK |
|---|--|



LANDSCAPE CALCULATIONS:

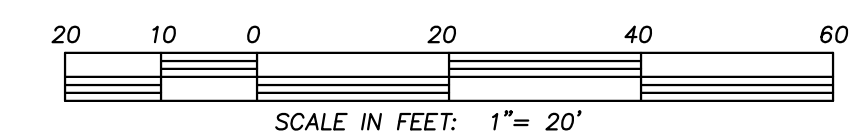
- STREET TREES**
1 STREET TREE FOR EVERY 30 LF
CASTLE STREET = 153 - 14 = 139 LF / 30 = 4.6
5 TREES REQUIRED
3 EXISTING TREES, 2 PROPOSED TREES
- TRANSITIONAL BUFFER SECTION 18-323**
UMX AND R-3 REQUIRES A CLASS 'A' BUFFER
REQUIRED:
25 SHRUBS PER 100 LF
4 UNDERSTORY TREES PER LF
300 LF OF ADJACENT R-3 ZONING
300 / 100 = 3.0, 3.0 X 25 = 98 SHRUBS REQUIRED: 98 PROVIDED
300 / 100 = 3.0, 3.0 X 4 = 16 UNDERSTORY TREES REQUIRED: 10 NEW PROVIDED
EXISTING TREES IN BUFFER AREA TO BE UTILIZED TO MEET REQUIREMENTS

STREET TREES

| QUANTITY | SYMBOL | SCIENTIFIC NAME | COMMON NAME | CONTAINER | MINIMUM PLANTING SIZE | MINIMUM HEIGHT PLANTING SIZE | PLANTING REMARKS |
|----------|--------|-----------------|---------------|-----------|-----------------------|------------------------------|------------------|
| 2 | | LLEX X A | PALATKA HOLLY | B & B | | 8 FT | CASLTE STREET |

CLASS 'A' BUFFER

| QUANTITY | SYMBOL | SCIENTIFIC NAME | COMMON NAME | CONTAINER | MINIMUM PLANTING SIZE | MINIMUM HEIGHT PLANTING SIZE | PLANTING REMARKS |
|----------|--------|--------------------------|----------------------|-----------|-----------------------|------------------------------|------------------|
| 12 | | PENNISETUM ALOPECUROIDES | DWARF FOUNTAIN GRASS | 3 Gal. | | 18 INCHES | PARKING LOT |
| 10 | | ULMAS PARVIFOLIA | CHINESE ELM | B & B | | 8 FT | CASLTE STREET |



CSD ENGINEERING
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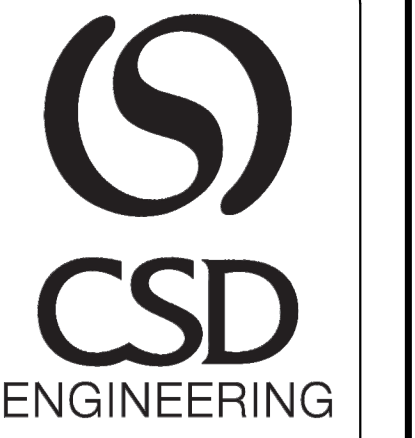
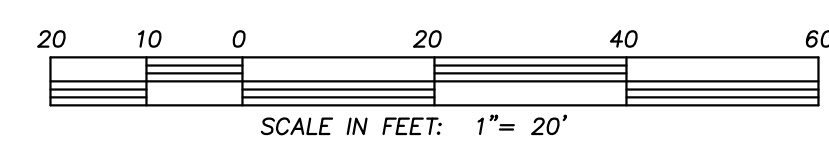
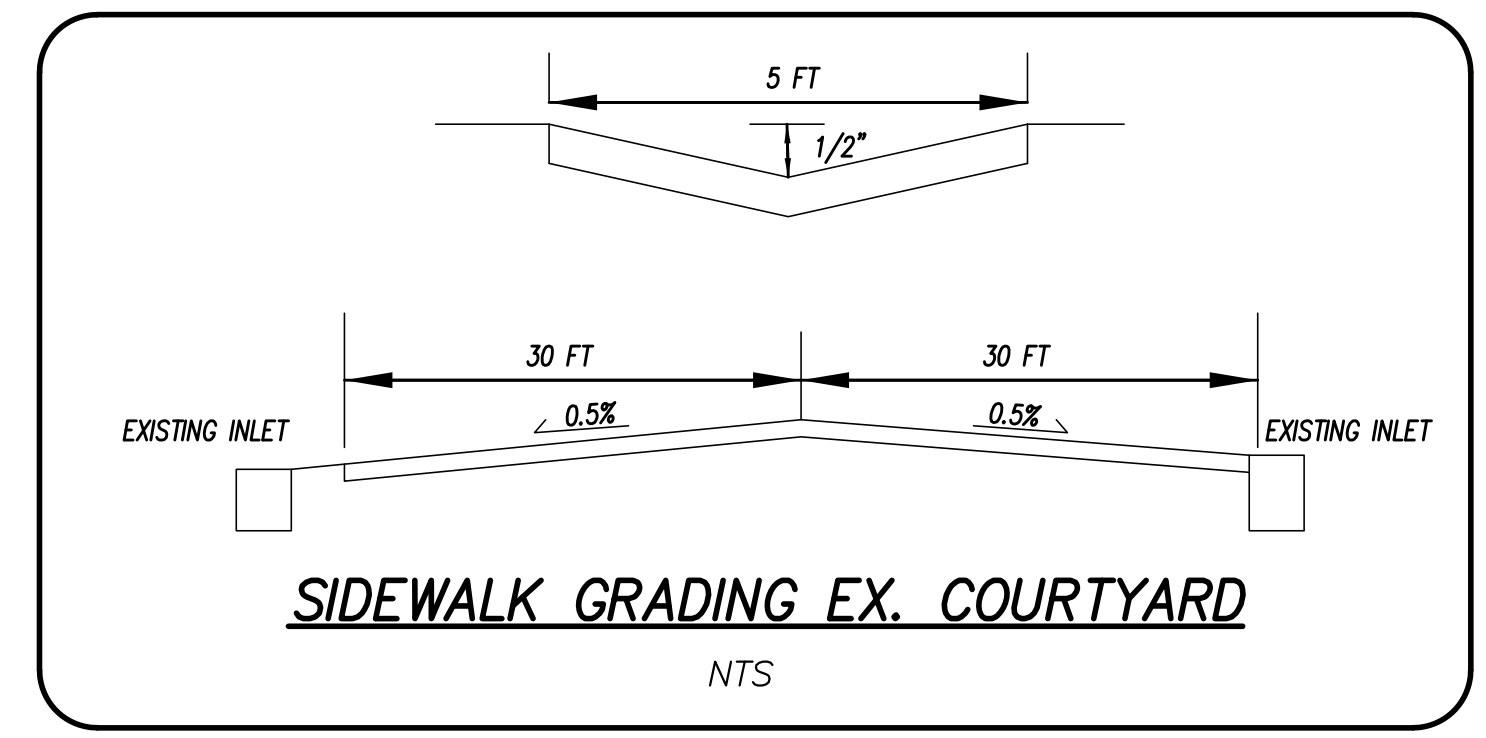
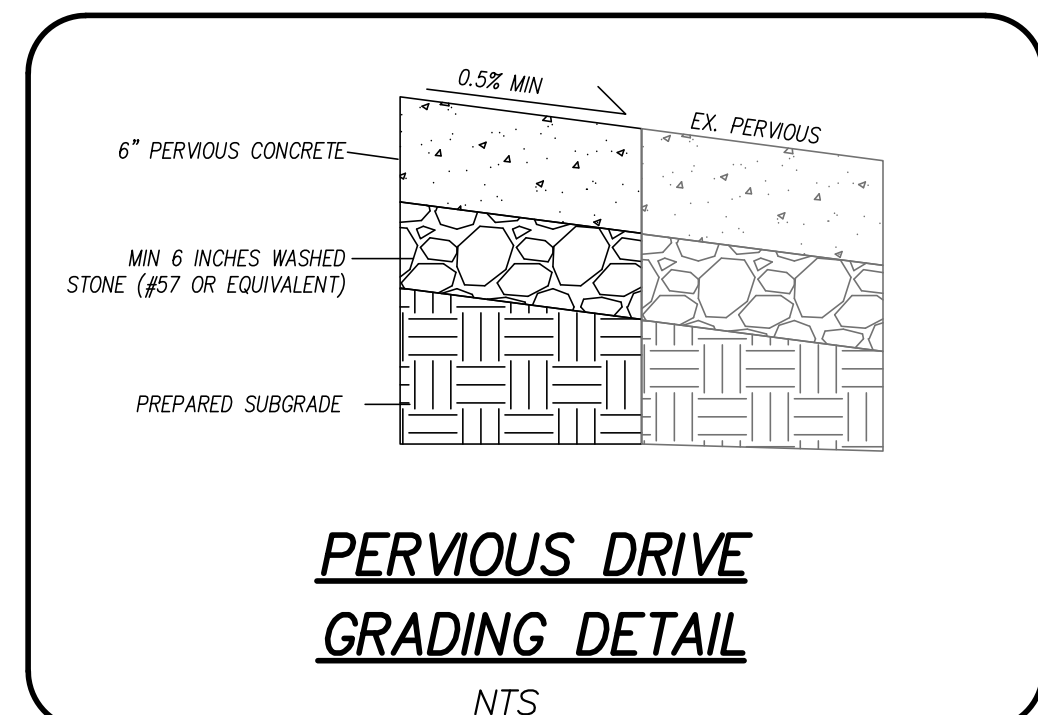
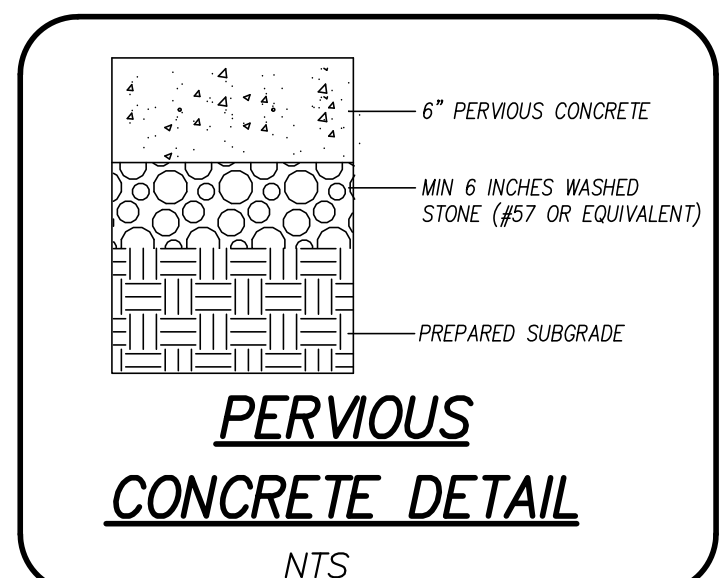
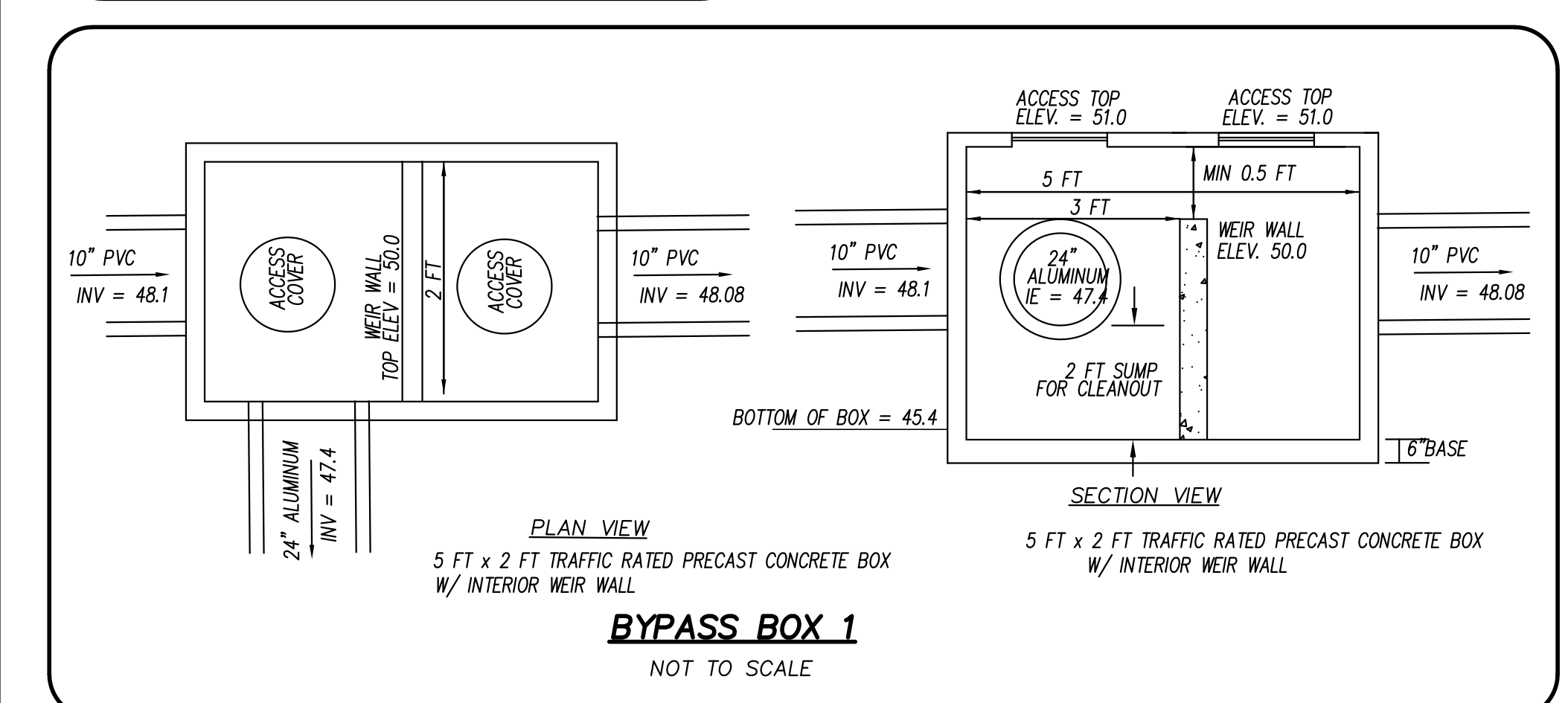
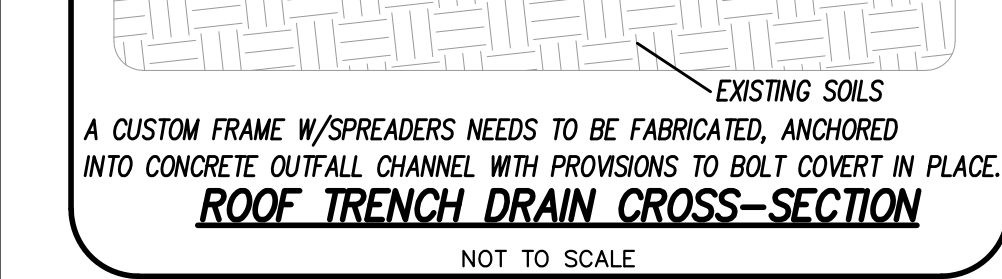
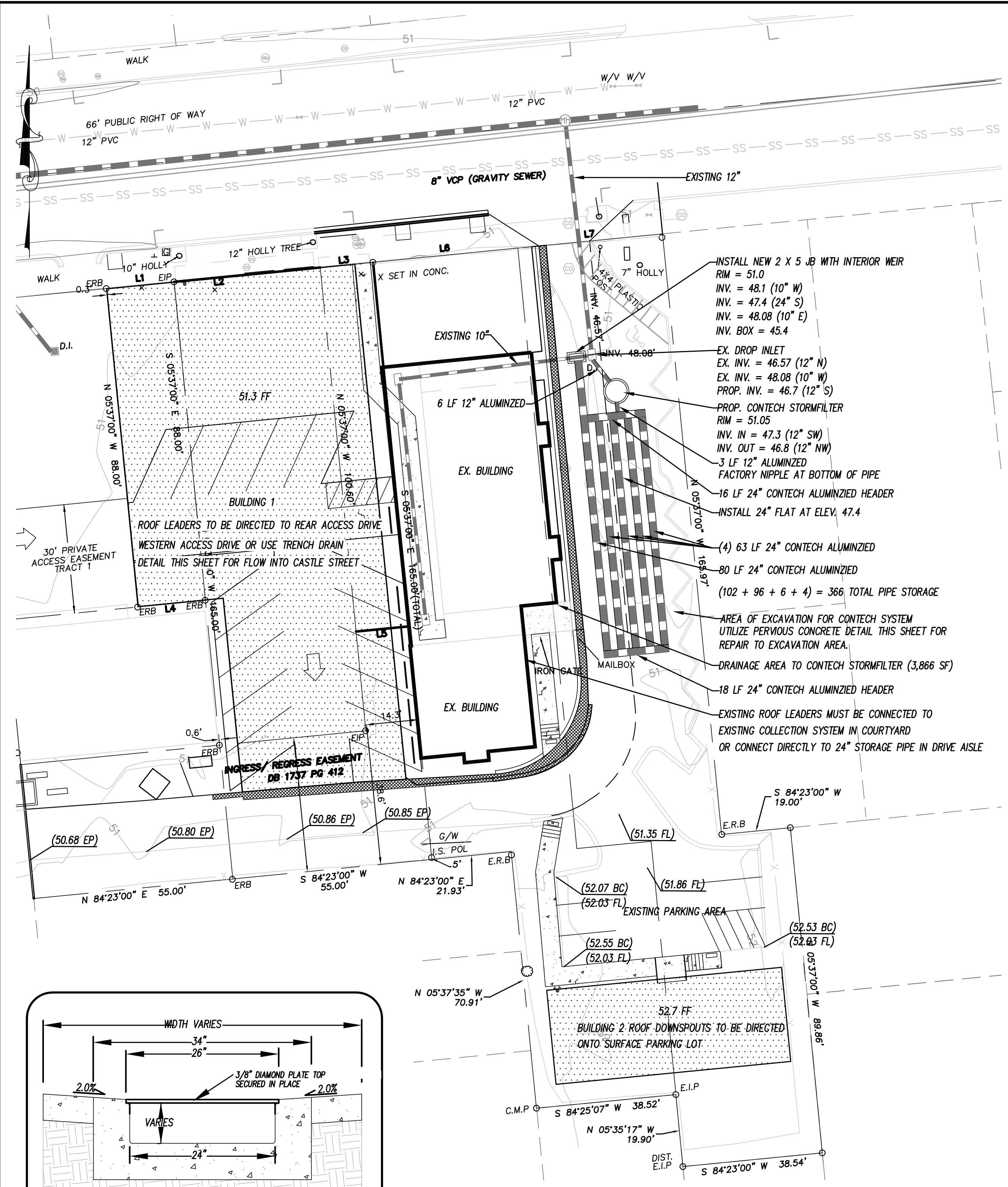
LANDSCAPE PLAN
THE 606

LANDSCAPE PLAN
THE 606
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA
OWNER: RCG CASTLE STREET LLC
17 IVALOO STREET SUITE 100
SUMMERVILLE, MA 02143

PRELIMINARY

| REV. NO. | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |

DATE: 3-1-23
HORZ. SCALE: 1" = 20'
VERT. SCALE: N/A
DRAWN BY: RLW
CHECKED BY: HSR
PROJECT NO.: 22-0625



LICENSE # C-2710
ENGINEERING
LAND PLANNING
COMMERCIAL / RESIDENTIAL
P.O. BOX 4041
WILMINGTON, NC 28406
(910) 791-4441

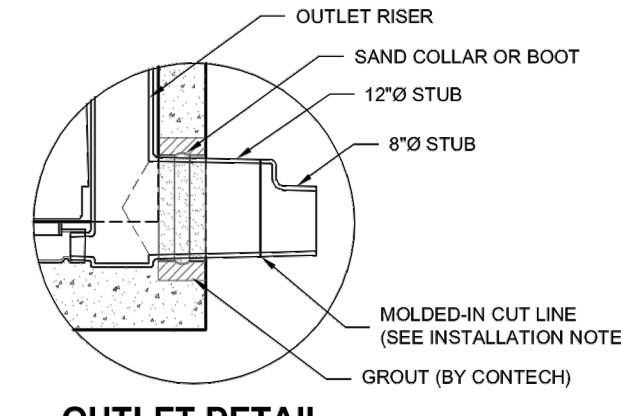
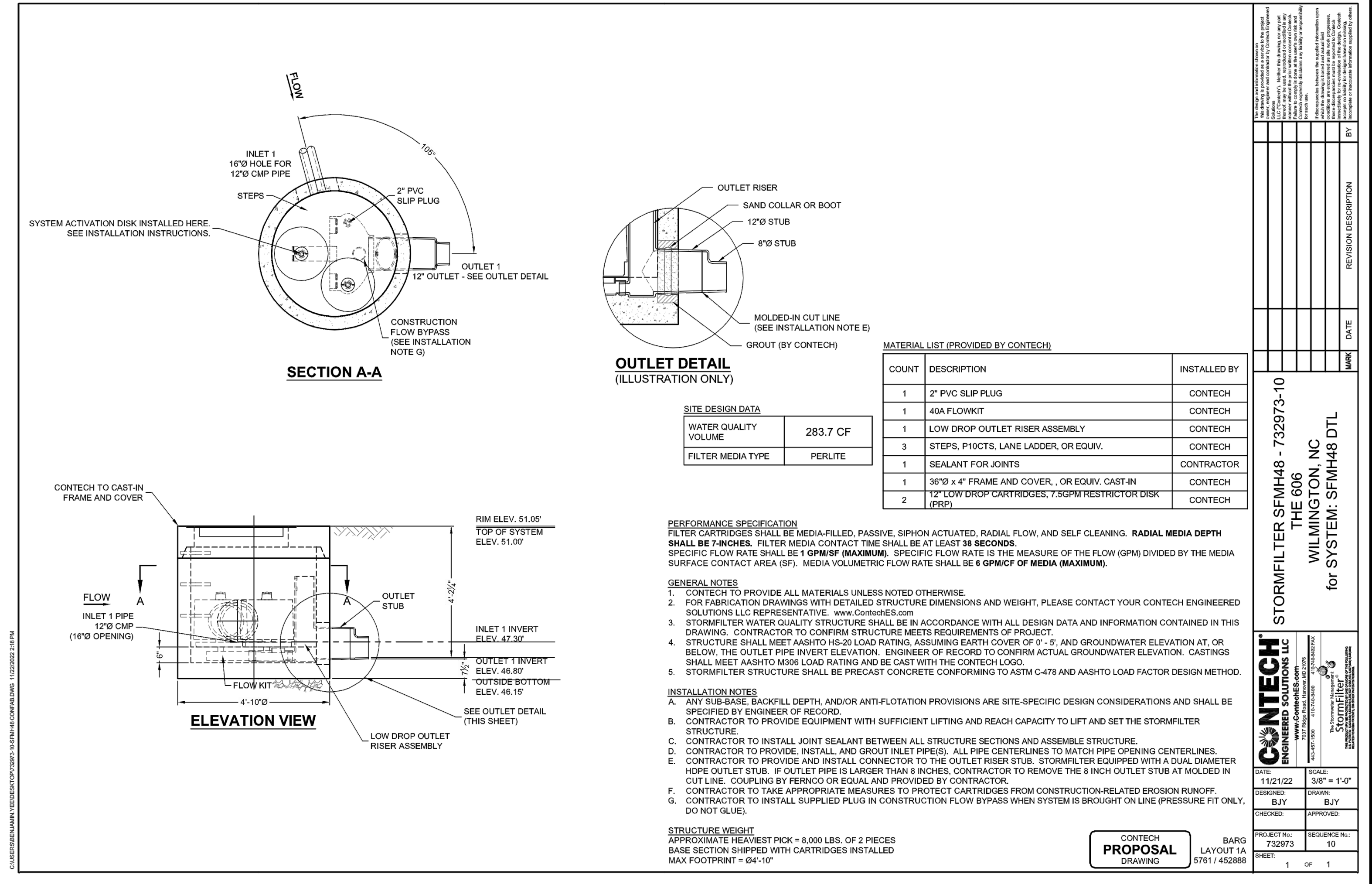
STORMWATER PLAN
THE 606

STORMWATER PLAN
THE 606
LOCATED IN CITY OF WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA
OWNER: RCG CASTLE STREET LLC
17 WALLOO STREET SUITE 100
SUMMERVILLE, MA 02143

PRELIMINARY

| REV. NO. | BY | DATE | REMARKS |
|----------|-----|--------|--------------------------|
| 1 | RLW | 3-1-23 | REVISED PER TRC COMMENTS |

DATE: 11-29-22
HORZ. SCALE: 1" = 20'
VERT. SCALE: N/A
DRAWN BY: RLW
CHECKED BY: HSR
PROJECT NO.: 22-0625



SITE DESIGN DATA

| | |
|----------------------|----------|
| WATER QUALITY VOLUME | 283.7 CF |
| FILTER MEDIA TYPE | PERLITE |

MATERIAL LIST (PROVIDED BY CONTECH)

| COUNT | DESCRIPTION | INSTALLED BY |
|-------|--|--------------|
| 1 | 2" PVC SLIP PLUG | CONTECH |
| 1 | 40A FLOWKIT | CONTECH |
| 1 | LOW DROP OUTLET RISER ASSEMBLY | CONTECH |
| 3 | STEPS, P10CTS, LANE LADDER, OR EQUIV. | CONTECH |
| 1 | SEALANT FOR JOINTS | CONTRACTOR |
| 1 | 36" x 4" FRAME AND COVER, OR EQUIV. CAST-IN (PREP) | CONTECH |
| 2 | 12" LOW DROP CARTRIDGES, 7.5GPM RESTRICTOR DISK | CONTECH |

PERFORMANCE SPECIFICATION
 FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7 INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS. SPECIFIC FLOW RATE SHALL BE 1 GPM/SF (MAXIMUM). SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF). MEDIA VOLUMETRIC FLOW RATE SHALL BE 6 GPM/CF OF MEDIA (MAXIMUM).

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
 - STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
 - STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

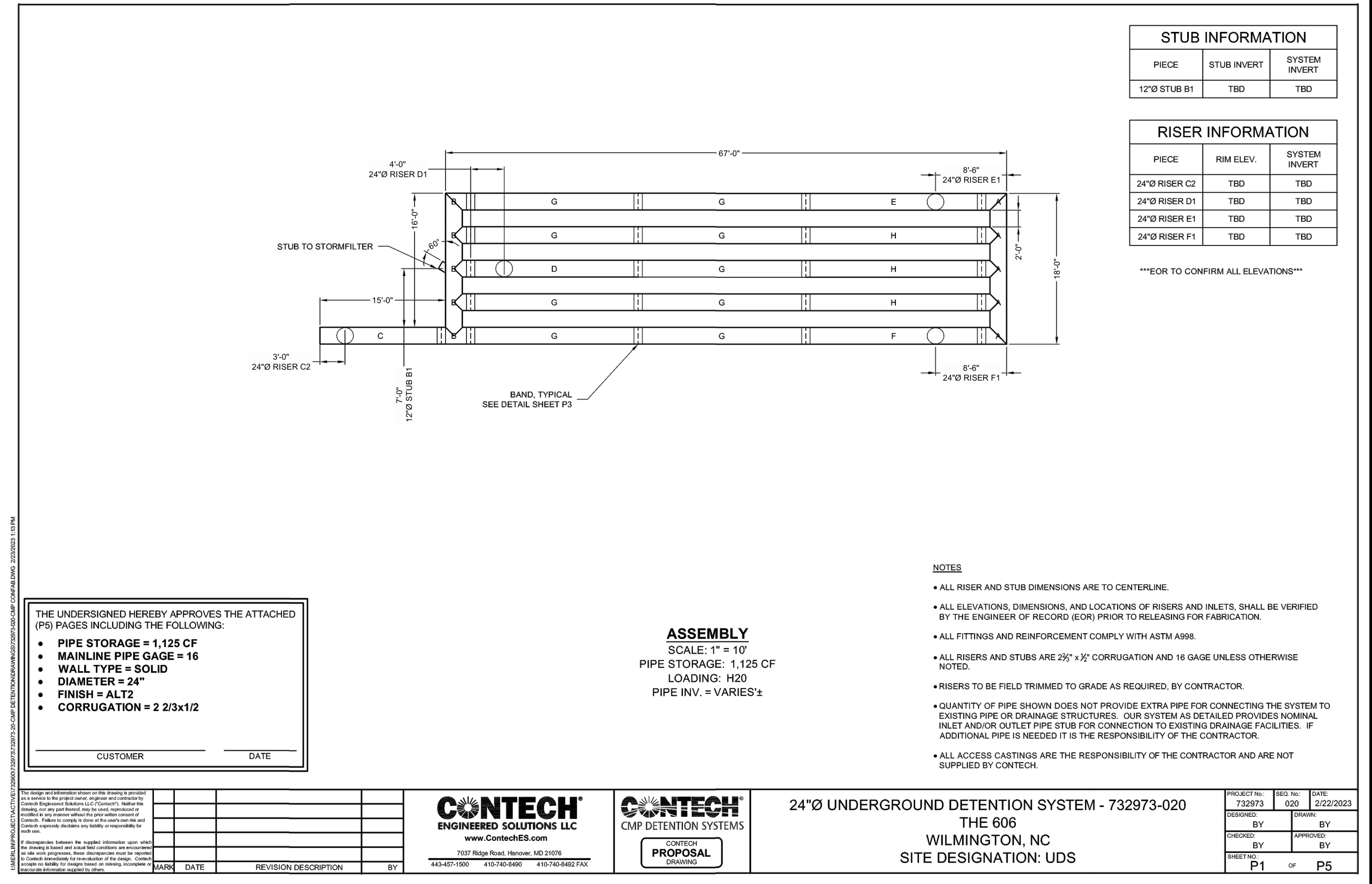
- INSTALLATION NOTES**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL AND GROUT INLET PIPE(S). ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
 - CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HOPE OUTLET STUB. IF OUTLET PIPE IS LARGER THAN 8 INCHES, CONTRACTOR TO REMOVE THE 8 INCH OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERROD OR EQUAL AND PROVIDED BY CONTRACTOR.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - CONTRACTOR TO INSTALL SUPPLIED PLUG IN CONSTRUCTION FLOW BYPASS WHEN SYSTEM IS BROUGHT ON LINE (PRESSURE FIT ONLY, DO NOT GLUE).

STRUCTURE WEIGHT
 APPROXIMATE HEAVIEST PICK = 8,000 LBS. OF 2 PIECES
 BASE SECTION SHIPPED WITH CARTRIDGES INSTALLED
 MAX FOOTPRINT = 04'-10"

CONTECH ENGINEERED SOLUTIONS LLC
 StormFilter™
 732973-020
 WILMINGTON, NC 28406
 (910) 791-4441

DATE: 11/2/22 SCALE: 3/8" = 1'-0"
 CHECKED BY: B.J.Y. DRAWN BY: B.J.Y.
 PROJECT NO.: 732973 REVISION NO.: 10
 SHEET: P1 OF P5

CONTECH PROPOSAL DRAWING 5761 / 452888 BARG LAYOUT 1A



STUB INFORMATION

| PIECE | STUB INVERT | SYSTEM INVERT |
|-------------|-------------|---------------|
| 12" STUB B1 | TBD | TBD |

RISER INFORMATION

| PIECE | RIM ELEV. | SYSTEM INVERT |
|--------------|-----------|---------------|
| 24" RISER C2 | TBD | TBD |
| 24" RISER D1 | TBD | TBD |
| 24" RISER E1 | TBD | TBD |
| 24" RISER F1 | TBD | TBD |

EOR TO CONFIRM ALL ELEVATIONS

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (P5) PAGES INCLUDING THE FOLLOWING:

- PIPE STORAGE = 1,125 CF
- MAINLINE PIPE GAGE = 16
- WALL TYPE = SOLID
- DIAMETER = 24"
- FINISH = ALT2
- CORRUGATION = 2 2/3x1/2

CUSTOMER _____ DATE _____

ASSEMBLY
 SCALE: 1" = 10'
 PIPE STORAGE: 1,125 CF
 LOADING: H20
 PIPE INV. = VARIES±

- NOTES**
- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
 - ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD (EOR) PRIOR TO RELEASING FOR FABRICATION.
 - ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
 - ALL RISERS AND STUBS ARE 2 2/3" x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
 - RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR.
 - QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.

24"Ø UNDERGROUND DETENTION SYSTEM - 732973-020
 THE 606
 WILMINGTON, NC
 SITE DESIGNATION: UDS

CONTECH ENGINEERED SOLUTIONS LLC
 www.ContechES.com
 7329 Ridge Road, Hanover, MD 21076
 443-487-1900 410-740-8400 410-740-8402 FAX

CONTECH CMP DETENTION SYSTEMS
 CONTECH PROPOSAL DRAWING

PROJECT NO. 732973 SEQ. NO. 020 DATE 2/22/2023
 CHECKED BY: B.J.Y. DRAWN BY: B.J.Y.
 SHEET: P1 OF P5

CSD ENGINEERING
 LICENSE # C-2710
 ENGINEERING
 LAND PLANNING
 COMMERCIAL / RESIDENTIAL
 P.O. BOX 4041
 WILMINGTON, NC 28406
 (910) 791-4441

STORMWATER PLAN
THE 606

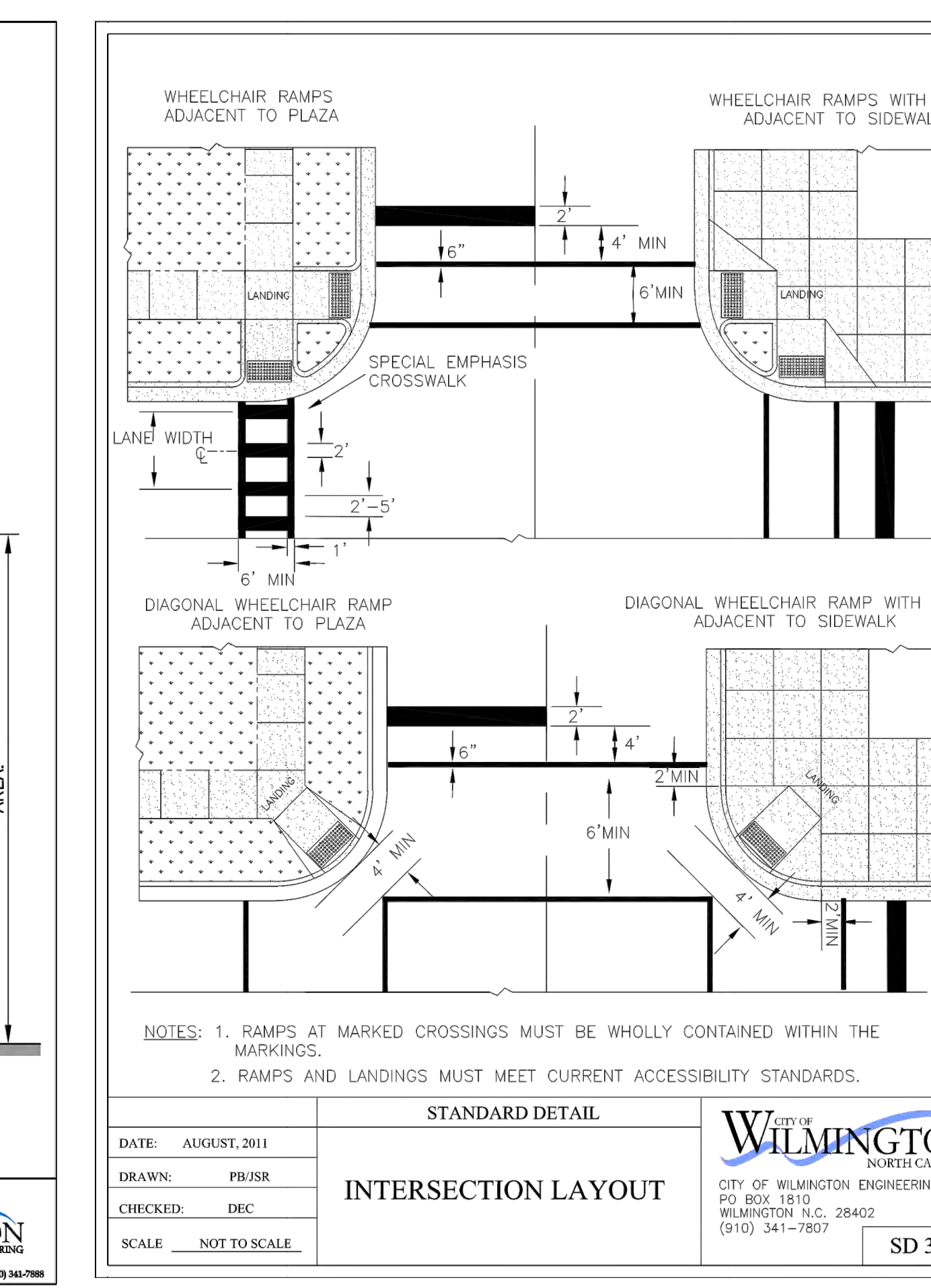
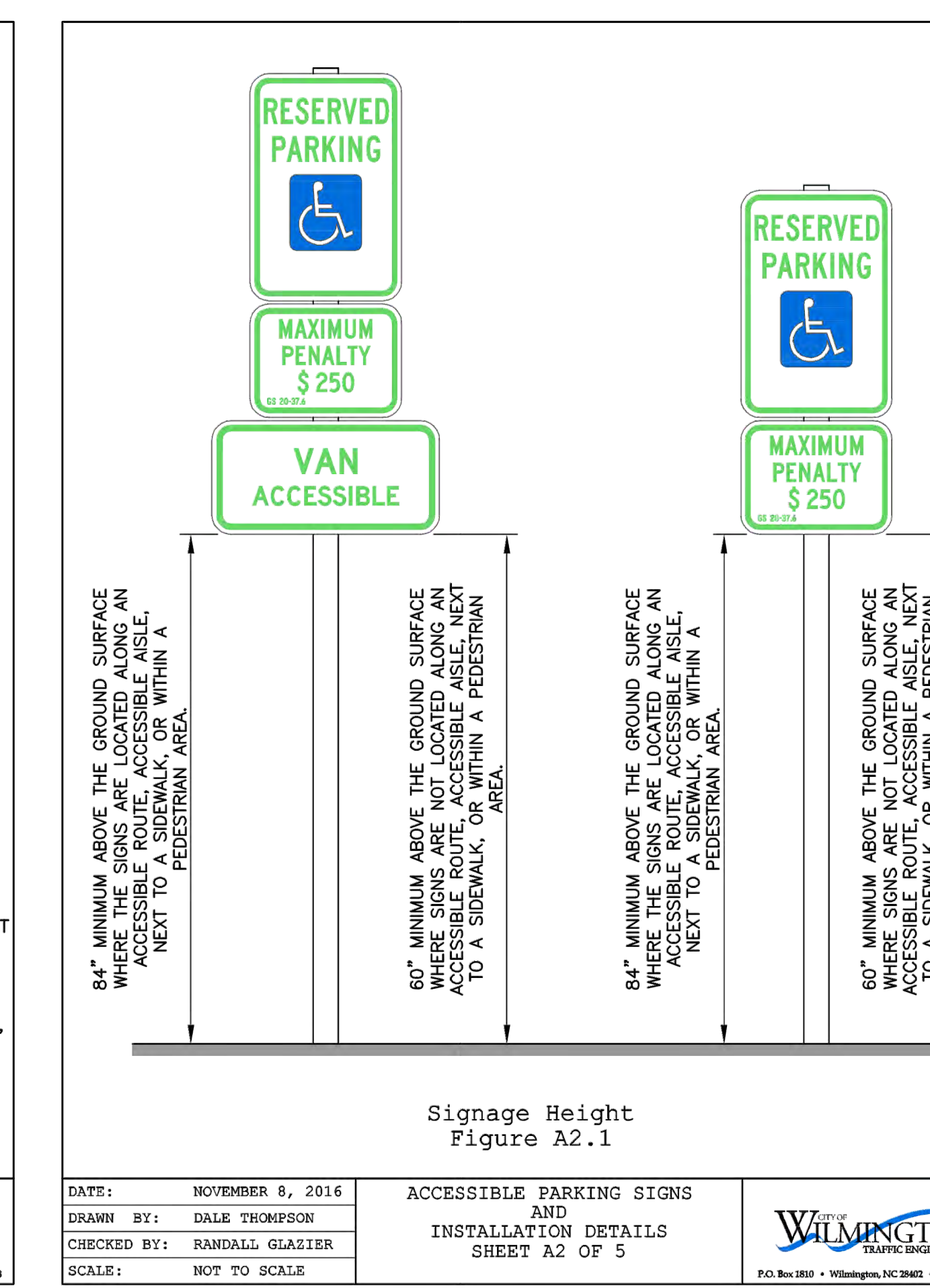
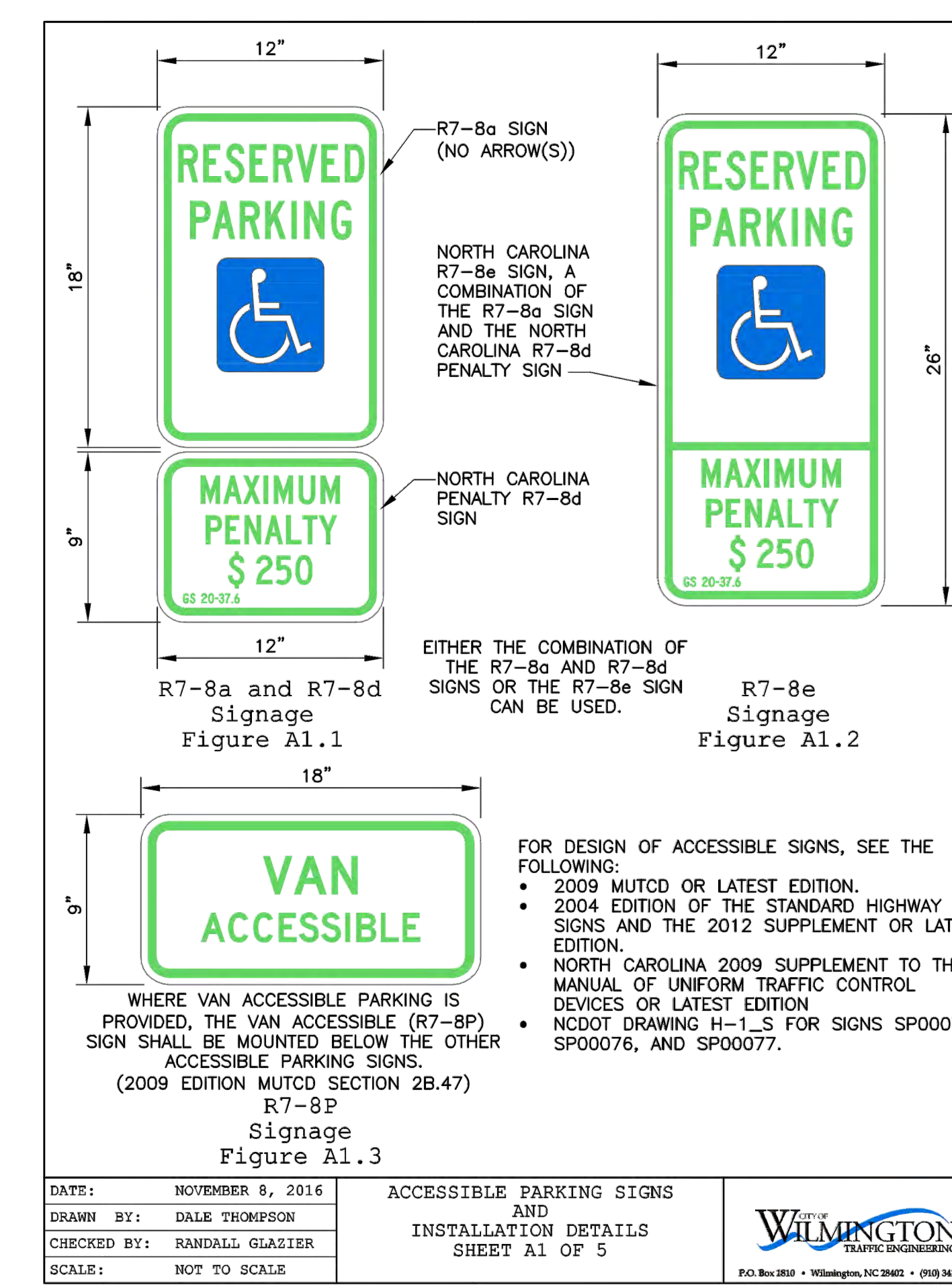
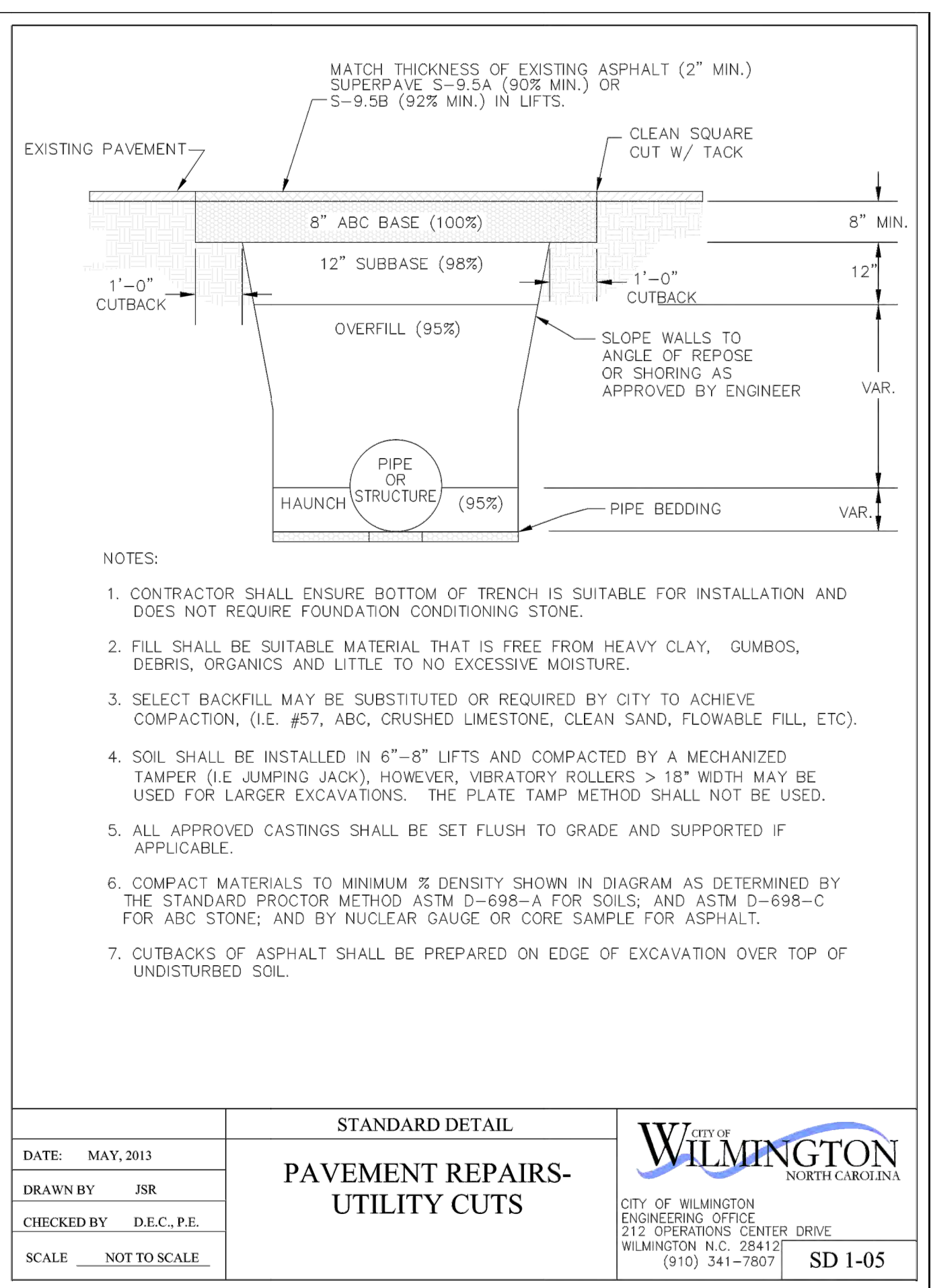
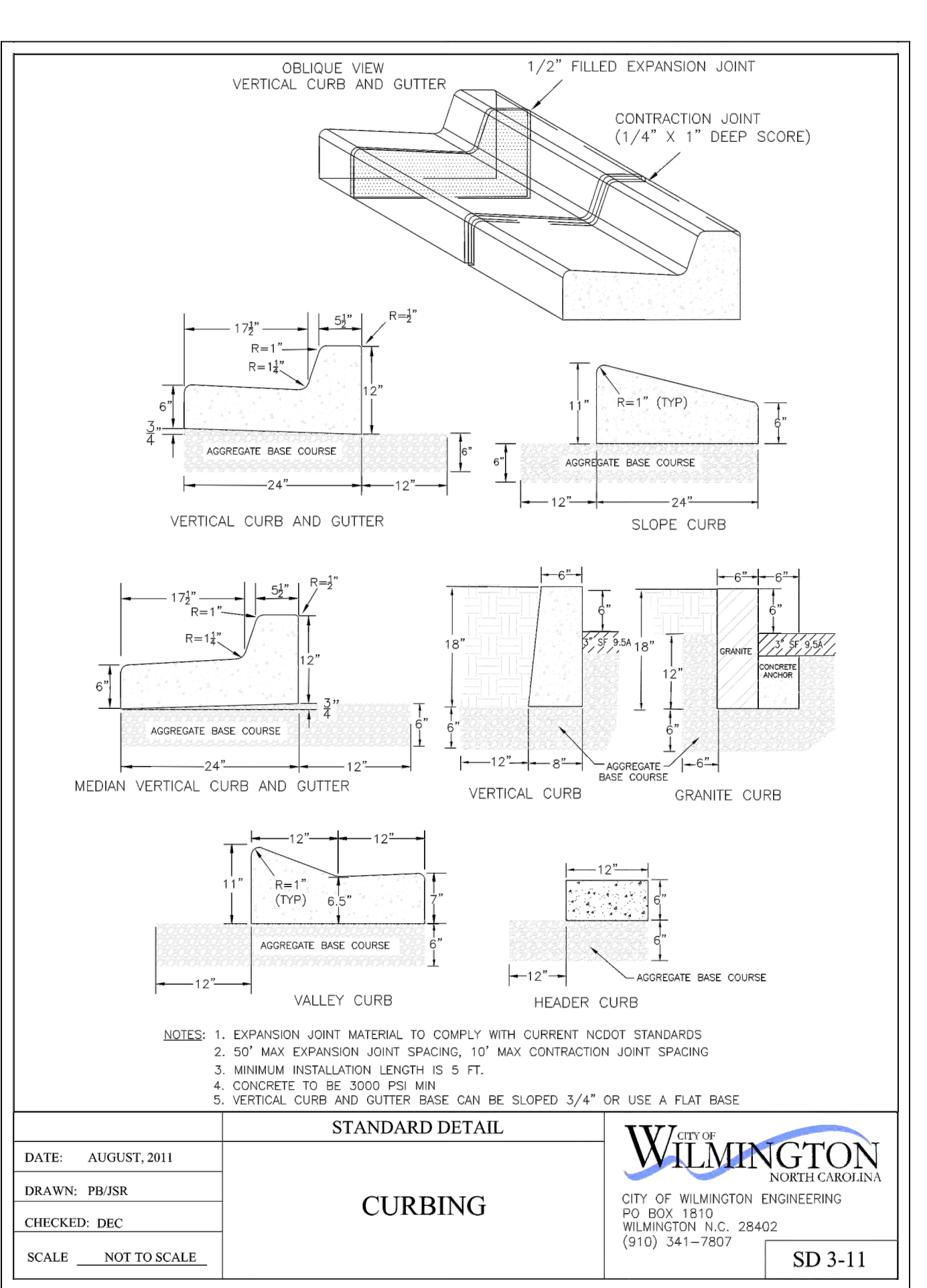
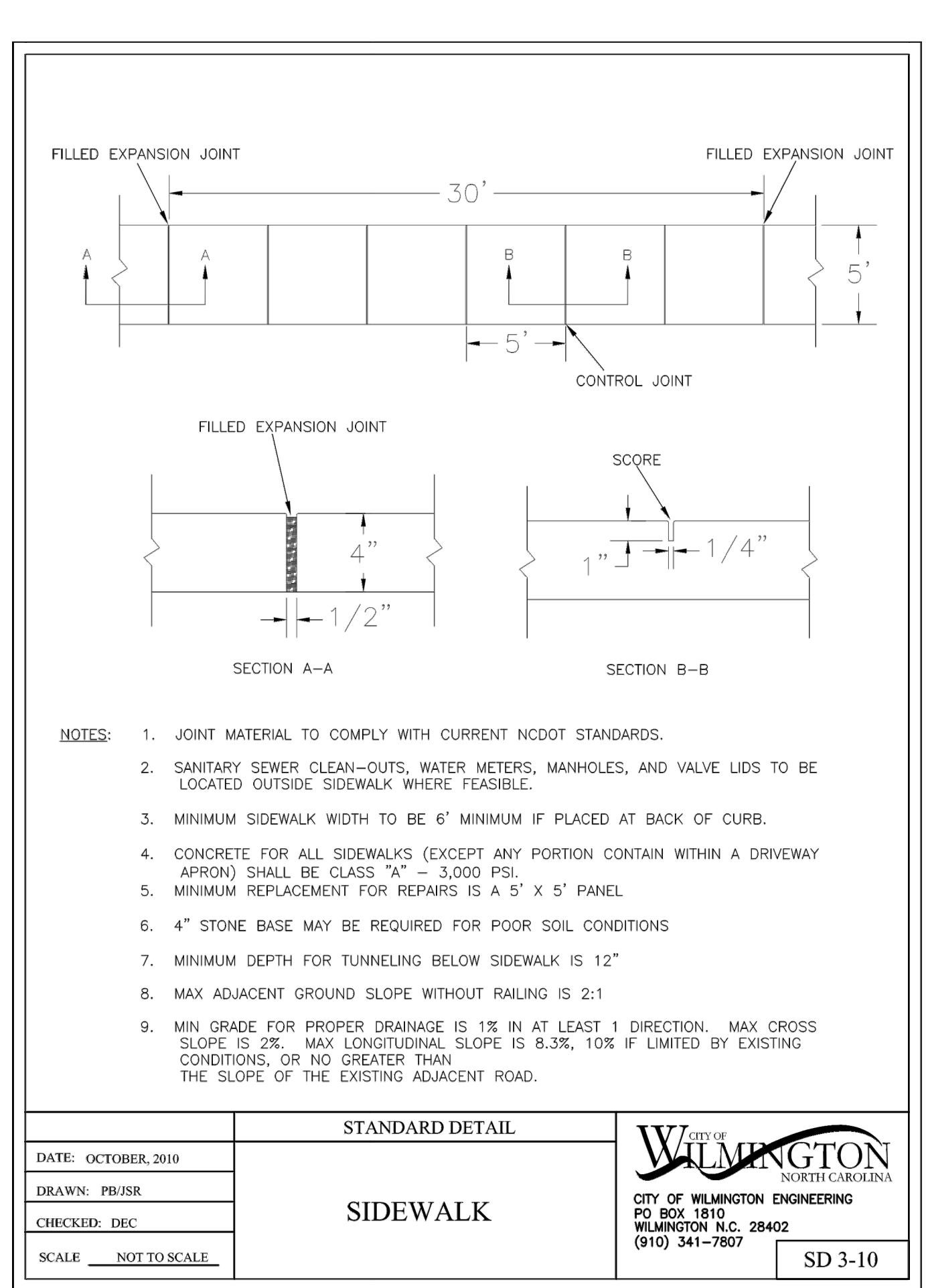
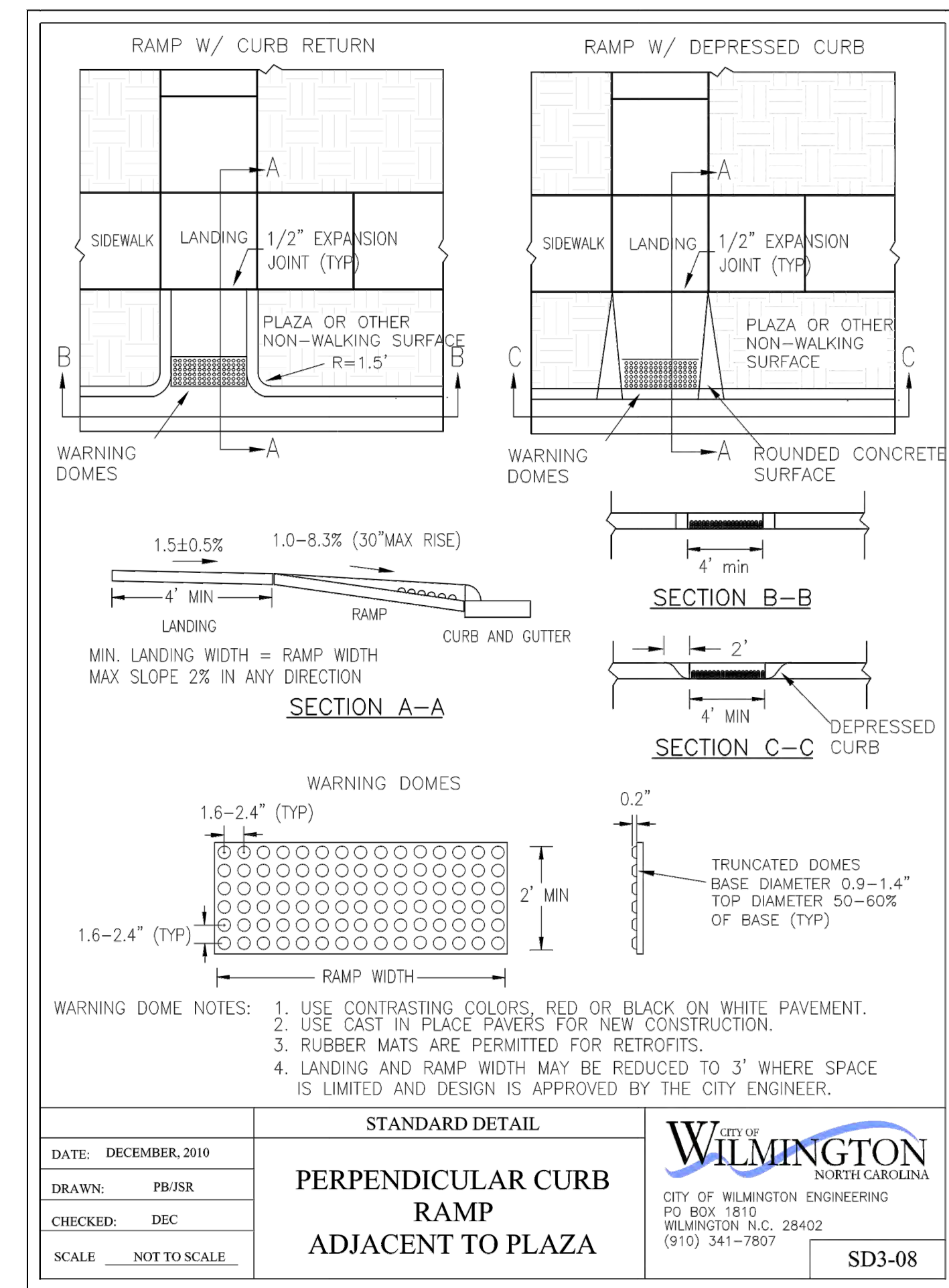
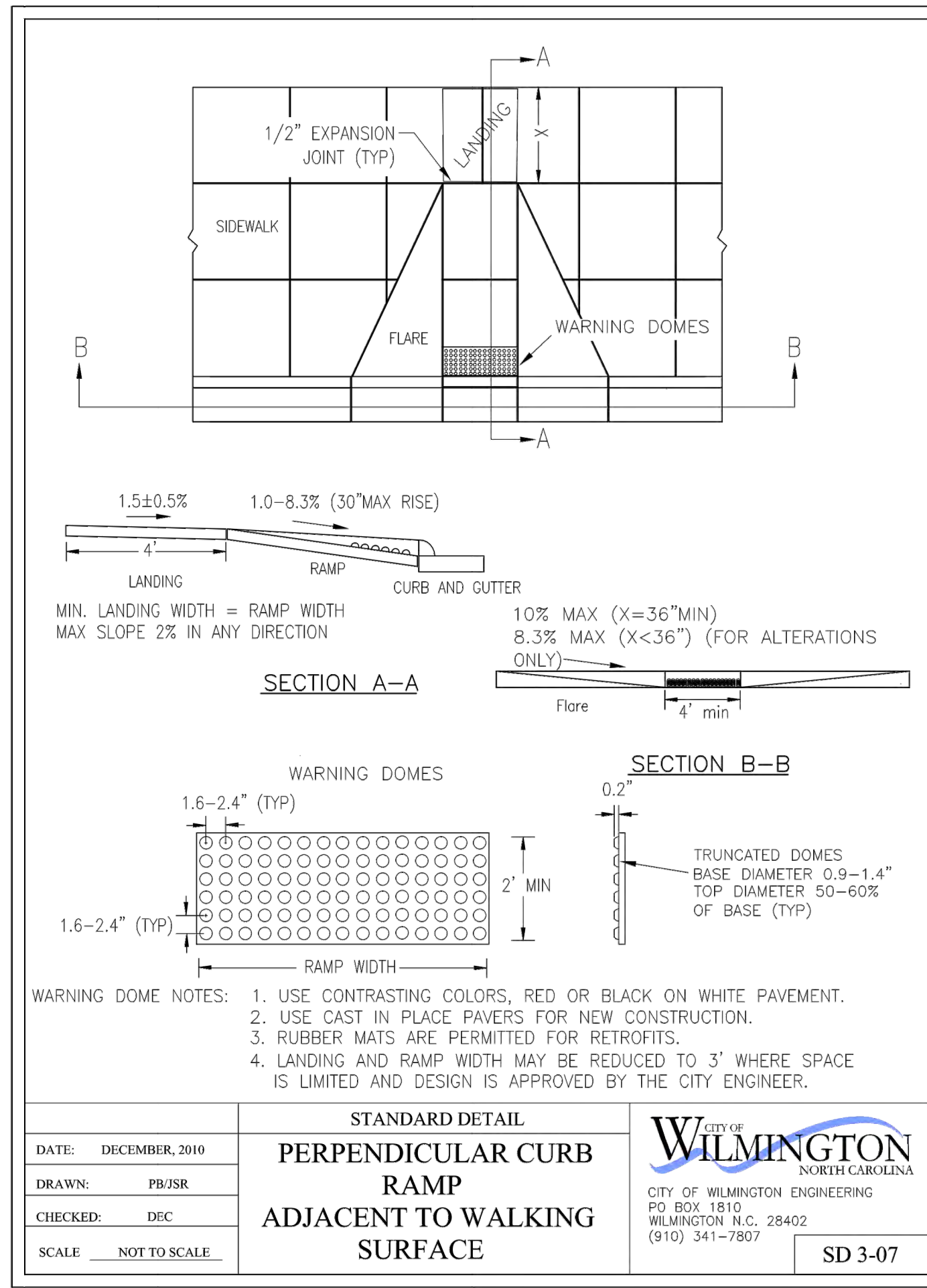
STORMWATER PLAN
THE 606
 LOCATED IN CITY OF WILMINGTON
 NEW HANOVER COUNTY, NORTH CAROLINA
 OWNER: RCG CASTLE STREET LLC
 17 WALLOO STREET SUITE 100
 SUMMERSVILLE, MA 02143

PRELIMINARY

| REV. NO. | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |

DATE: 3-1-23
 HORZ. SCALE: 1" = 20'
 VERT. SCALE: N/A
 DRAWN BY: RLW
 CHECKED BY: HSR
 PROJECT NO.: 22-0625

Sheet No. **7** of **11**



| REV. NO. | BY | DATE | REMARKS |
|----------|-----|--------|---------|
| 1 | RLW | 3-1-23 | |

| REV. NO. | BY | DATE | REVISION |
|----------|-----|--------|----------------------|
| 1 | RLW | 3-1-23 | REVISED SHEET NUMBER |

NOTE:
 THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE:
 CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

CRZ
DBH
 3' MIN
 8' MAX
 ORANGE SAFETY FENCE OR ORANGE SILT FENCE (TYPICAL)

NOTES:
 1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
 3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
 5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
 6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
 SHEET 1 of 2

DATE: JAN, 2015
 DRAWN BY: JSR
 CHECKED BY: RDG, P.E.
 SCALE: NOT TO SCALE

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SD 15-09

STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS
 2 of 2

DATE: JUNE 1, 2015
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.4

STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN
 1 of 2

DATE: JUNE 1, 2015
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.3

STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
 SHEET 2 of 2

DATE: JAN, 2015
 DRAWN BY: JSR
 CHECKED BY: RDG, P.E.
 SCALE: NOT TO SCALE

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SD 15-09

NOTES:
 1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
 4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

STANDARD DETAIL
CROSSWALK PAVEMENT MARKINGS
 2 of 2

DATE: FEBRUARY, 2012
 DRAWN BY: JSR
 CHECKED BY: BDR, P.E.
 SCALE: NOT TO SCALE

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SD 11-11

STANDARD DETAIL
PAVEMENT MARKINGS LINE TYPES
 1 of 1

DATE: DECEMBER, 2011
 DRAWN BY: JSR
 CHECKED BY: BDR, P.E.
 SCALE: NOT TO SCALE

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 PO BOX 1810
 WILMINGTON, NC 28402
 (910) 341-7807

SD 11-01

1-PAVEMENT MARKINGS AND SYMBOLS SHALL BE DESIGNED PER MUTCD WITH APPROVAL FROM CITY TRAFFIC ENGINEERING, AND INSTALLED IN ACCORDANCE WITH NCDOT DIVISION 12 SPECIFICATIONS.
 2-GENERALLY, PERMANENT MARKINGS WILL BE UNIFORM AND SMOOTH AND WILL CONSIST OF 120MIL OF THERMOPLASTIC FOR ALL LINES AND SYMBOLS; TEMPORARY MARKINGS SHALL CONSISTS OF 15 MIL PAINT, EVERY 6 MONTHS.
 3-DURING APPLICATION THE EXISTING PAVEMENT SHALL NOT SHOW SIGNS OF MOISTURE AND BE CLEAN, FREE OF DIRT AND OIL, ETC. THERMOPLASTIC SHALL ONLY BE INSTALLED WHERE PAVEMENT IS 50' F AND RISING. PAINT SHALL ONLY BE INSTALLED WHERE PAVEMENT IS 40' F AND RISING.