

Administrative Site Plan StorageMax

Town of Zebulon
Wake County, North Carolina

Case #
SUP - 2023 -02



VICINITY MAP

SITE DATA:

SITE ADDRESS: 901 PROCTOR STREET, ZEBULON NC
 PIN: 2706217463
 CURRENT USE: VACANT
 PROPOSED USE: SELF STORAGE FACILITY
 SITE AREA (GROSS): 6.50 ac (283,140 sf)
 ROW DED. SHEPARD SCHOOL: 0.29 ac (12,756 sf)
 ROW DED. PROCTOR: 0.06 ac (2,569 sf)
 SITE AREA (NET): 6.15 ac (267,894 sf)
 ZONING DISTRICT: HC (HEAVY COMMERCIAL)
 FUTURE LAND USE: SUBURBAN COMMERCIAL
 PROPOSED BUILDING SIZE: 92,000 sf
 BUILDING HEIGHT (MAX): 50'
 MAX LOT COVERAGE (ALLOWED) - HC: 80% (5.20 ac)
 MAX LOT COVERAGE (PROVIDED) - HC: 55% (3.60 ac)
 BUILDING SETBACKS: 30' (STREET ROW)
 0', 5' (SIDE)
 25' (REAR)
 PARKING (REQUIRED: 1 SPACE / 5000 sf): 106,000/5000 = 21 SPACES
 PARKING (PROVIDED): 24 SPACES
 LATITUDE: 35.840297
 LONGITUDE: -78.315683
 BIKE PARKING (REQUIRED): 1 per Bldg
 BIKE PARKING (PROVIDED): 2
 WATERSHED: BUCKHORN
 RIVER BASIN: NEUSE
 HUC: 03020203
 DENUDED AREA ON SITE: 258,310.80 SF (5.93 AC)
 DENUDED AREA ROW: 27,878.40 SF (.64 AC)
 DENUDED AREA TOTAL: 286,076 SF (6.57 AC)

OPEN SPACE (PASSIVE) SUMMARY

REQUIRED: 3% X 6.5 AC = .19AC
 PROVIDED: BIORETENTION AREA WITH PEDESTRAIN ACCESS .72 AC / 6.6 AC = 11%
 OPEN AREA AT THE BMP TO COMPLY WITH UDO 5.7.5

PUBLIC IMPROVEMENT QUANTITIES

| PHASE NUMBER(S) | PHASE 1 |
|---------------------------|---------|
| NUMBER OF LOT (S) | 1 |
| LOT NUMBERS BY PHASE | 1 |
| NUMBER OF UNITS | 1 |
| LIVABLE OF UNITS | 0 |
| OPEN SPACE (YES/NO) | YES |
| NUMBER OF OPEN SPACE LOTS | 0 |
| PUBLIC WATER (LF) | 0 |
| PUBLIC 8" PVC SEWER | 0 |
| WATER SERVICE STUBS | 1 |
| WATER SERVICE ABANDONED | 1 |
| SEWER SERVICE STUBS (NEW) | 0 |
| SEWER SERVICE REMOVED | 0 |

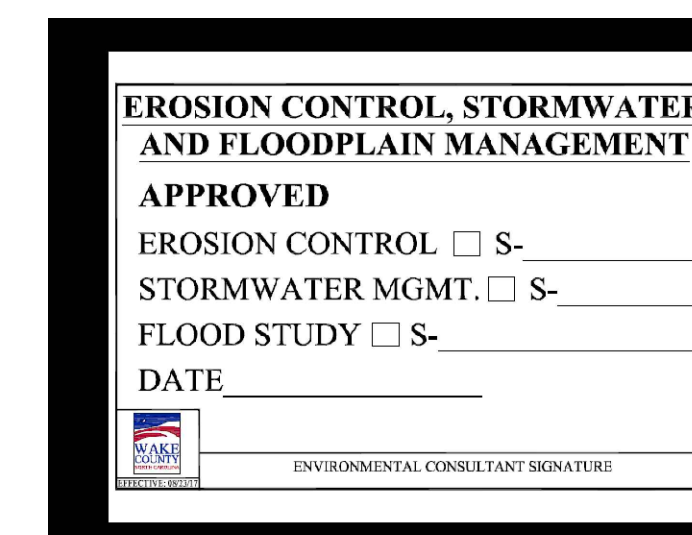
| SHEET | DESCRIPTION |
|-------|--|
| | Cover Sheet |
| | Existing Conditions Survey |
| C1 | Existing Conditions & Tree Survey |
| C2 | Site Plan - Overall |
| C3 | Site Plan - Enlarged North |
| C4 | Site Plan - Enlarged South |
| C5 | Grading Plan - Overall |
| C6 | Grading Plan - Enlarged North |
| C7 | Grading Plan - Enlarged South |
| C8 | Utility Plan - Overall |
| C9 | Utility Plan - Enlarged North |
| C10 | Utility Plan - Enlarged South |
| C11 | Shepard School - Widening and Striping |
| C12 | Shepard School - Plan and Profile |
| LS1 | Planting Plan - North |
| LS2 | Planting Plan - South |
| LS3 | Planting Details |
| ES101 | Site Photometric Plan |
| D1 | Standard Site Details |
| D-2 | Site and Stormwater Details |
| D-3 | BMP Bioretention Detail |
| D-4 | Water and Sanitary Sewer Details |
| EC1 | Phase 1 - Erosion Control Plan |
| EC2 | Phase 2 - Erosion Control Plan |
| EC3 | Phase 3 - Erosion Control Plan |
| EC4 | Phase 4 - Erosion Control Plan |
| EC5 | Erosion Control Details |
| EC6 | Erosion Control Details |
| EC7 | NGC01 Requirements Architectural |

LEGEND

| | NEW | EXISTING |
|-------------------------------|-----------|-----------|
| DRAINAGE STRUCTURE | □ □ □ □ □ | □ □ □ □ □ |
| SANITARY SEWER MANHOLE | ⊙ | ⊙ |
| SANITARY SEWER CLEANOUT | ⊙ | ⊙ |
| WATER VALVE | ⊙ | ⊙ |
| FIRE HYDRANT | ⊙ | ⊙ |
| OVERHEAD UTILITY LINE | OH | XOH |
| UNDERGROUND ELECTRIC LINE | E | XE |
| UNDERGROUND TELECOM/DATA LINE | TD | XTD |
| FIBER OPTIC CABLE | FO | XFO |
| GAS LINE | G | XG |
| STORM DRAINAGE PIPE | SD | XSD |
| SANITARY SEWER LINE | SS | XSS |
| WATER LINE | W | XW |
| SURFACE ELEVATION CONTOUR | 400 | 400 |
| SURFACE SPOT ELEVATION | 356.44 | 356.44 |
| CLEARING LIMIT/TREE LINE | ~ | ~ |
| LIMIT OF DISTURBANCE | - - - | - - - |
| ELECTRICAL TRANSFORMER PAD | T | T |
| TOWNHOME PARKING (NUMBER) | 71 | |



Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538



GENERAL NOTES

- BOUNDARY AND TOPO INFORMATION TAKEN FROM CAWTHORNE, MOSS & PANCIERA, P.C., SURVEYING, TITLED TOPOGRAPHIC SURVEY FOR STORAGE MAX LLC, DATED DECEMBER 22, 2022.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES & SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS ACTIVITIES. CALL UTILITY LOCATOR SERVICE AT LEAST 48 HOURS PRIOR TO DIGGING.
- ALL CONSTRUCTION WILL BE IN STRICT CONFORMANCE TO THE TOWN OF ZEBULON, CITY OF RALEIGH, WAKE COUNTY AND NCDOT STANDARDS AND SPECIFICATIONS.
- NO CHANGES MAY BE MADE TO THE APPROVED DRAWINGS WITHOUT WRITTEN PERMISSION FROM THE ISSUING AUTHORITY.

PROJECT INFORMATION:

PROJECT: STORAGE MAX COMMERCIAL
 OWNER / DEVELOPER: ROBERET HIGH DEVELOPMENT, LLC
 324 GREENVILLE AVE.
 WILMINGTON, NC 28403
 (C) 910-790-9490
 PHONE:
 CONTACT: ALLEN MASSEY
 (919) 604-0505
 EMAIL: STORIT@AOL.COM
 ENGINEER: KEITH P. GETTLE, PE
 GETTLE ENGINEERING AND DESIGN, PLLC
 LICENSE: P-2538
 3616 WAXWING CT.
 WAKE FOREST, NC 27587
 (919) 210-3934
 EMAIL: KPGETTLE@GMAIL.COM
 SURVEYOR: CAWTHORNE MOSS AND PANCIERA P.C.
 333 SOUTH WHITE STREET
 WAKE FOREST NORTH CAROLINA 27588
 (919) 556-3148
 PHONE:
 PROJECT ADDRESS: 901 PROCTOR STREET, ZEBULON, NC
 PIN: 1758784708
 ZONING: HC
 EXIST USE: VACANT
 OVERLAY: NONE
 FLOOD ZONE: NO FLOOD HAZARDS AREAS PER FEMA FIRM 372020600J

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)
 The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____
 The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____
 The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
 City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
 Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal Laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.
 Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.
 City of Raleigh Development Approval _____
 City of Raleigh Review Officer _____

I, L. JORDAN PARKER, JR. CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GLOBAL POSITIONING SYSTEM (GPS) SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE GPS/GNSS SURVEY: THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION SHOWN IN THE REFERENCES. THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY AS CALCULATED IS GREATER THAN 1:10000; THIS SURVEY IS NOT TO BE RECORDED WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR.



CLASS OF SURVEY: AA
 POSITIONAL ACCURACY: HORIZONTAL 0.66 US SURVEY FEET
 TYPE OF GPS FIELD PROCEDURE: REAL TIME KINEMATIC NETWORK (L-RTK)
 DATES OF SURVEY:
 DATUM/EPOCH: NAD 83(2011) 2010.00
 PUBLISHED/FIXED CONTROL USE: BALEIGH DOT CORRS ASP
 LONG: 78°34'44.39448"
 LAT: 35°45'49.53785"
 COMBINED GRID FACTORS: 1.00008415682041
 UNITS: US SURVEY FOOT

THIS 6TH DAY OF FEBRUARY A.D. 2023.

Developed by:
 Larry Jordan Parker, Jr. L-4685
 PROFESSIONAL LAND SURVEYOR LICENSE NUMBER

| Point | Northing | Easting | Description |
|-------|------------|-------------|------------------|
| 6174 | 761085.096 | 2202622.318 | SWEET GUM-26 |
| 6175 | 761031.969 | 2202655.727 | SWEET GUM-22 |
| 6178 | 761224.598 | 2202568.487 | OAK-8 |
| 6179 | 761215.566 | 2202573.435 | BRAUFORD PEAR-5 |
| 6180 | 761204.663 | 2202566.320 | OAK-13 |
| 6181 | 761214.790 | 2202569.790 | CHERRY-9 |
| 6182 | 761215.192 | 2202564.746 | CEDAR-8 |
| 6183 | 761191.087 | 2202568.571 | CEDAR-8 |
| 6184 | 761193.251 | 2202574.966 | CEDAR-10 |
| 6185 | 761161.322 | 2202574.134 | CHERRY-4X3 |
| 6186 | 761176.699 | 2202573.424 | PRIVET-4 |
| 6187 | 761183.074 | 2202581.026 | SWEET GUM-7 |
| 6188 | 761174.041 | 2202578.041 | SWEET GUM-9 |
| 6189 | 761158.633 | 2202563.736 | CHINABERRY-6 |
| 6190 | 761136.190 | 2202564.397 | SWEET GUM-RX2 |
| 6191 | 761145.027 | 2202581.485 | BRAUFORD PEAR-7 |
| 6192 | 761143.632 | 2202583.004 | CHINABERRY-8 |
| 6193 | 761143.133 | 2202580.059 | CHINABERRY-4 |
| 6194 | 761252.133 | 2202572.561 | CHERRY-4 |
| 6195 | 761243.983 | 2202578.506 | CHINABERRY-4X2 |
| 6196 | 761242.603 | 2202570.394 | ELM-4 |
| 6197 | 761267.266 | 2202567.289 | OAK-7 |
| 6198 | 761265.382 | 2202579.248 | CHINABERRY-6 |
| 6199 | 761326.987 | 2202569.311 | OAK-2 |
| 6200 | 761317.252 | 2202569.247 | SWEET GUM-8X2 |
| 6201 | 761320.654 | 2202569.341 | OAK-7 |
| 6202 | 761327.774 | 2202569.191 | CHERRY-6 |
| 6203 | 761324.310 | 2202570.175 | CHERRY-5 |
| 6204 | 761327.806 | 2202575.451 | BRAUFORD PEAR-10 |
| 6205 | 761323.600 | 2202574.394 | PINE-4 |
| 6206 | 761332.163 | 2202567.397 | OAK-4 |
| 6207 | 761340.449 | 2202572.910 | OAK-11 |
| 6208 | 761345.444 | 2202569.132 | OAK-11 |
| 6209 | 761343.307 | 2202568.835 | CEDAR-4 |
| 6210 | 761353.108 | 2202570.471 | CEDAR-4 |
| 6211 | 761355.945 | 2202568.262 | SWEET GUM-9 |
| 6212 | 761355.480 | 2202573.304 | OAK-8 |
| 6213 | 761361.803 | 2202568.043 | CEDAR-15 |
| 6214 | 761367.987 | 2202572.061 | OAK-11 |
| 6215 | 761373.555 | 2202575.169 | OAK-5 |
| 6216 | 761373.510 | 2202573.973 | BRAUFORD PEAR-8 |
| 6217 | 761383.119 | 2202574.540 | OAK-8 |
| 6218 | 761388.348 | 2202577.076 | CHERRY-7 |
| 6219 | 761390.696 | 2202575.370 | CEDAR-8 |
| 6220 | 761393.644 | 2202576.358 | CEDAR-9 |
| 6221 | 761403.629 | 2202584.005 | SWEET GUM-13X3 |
| 6222 | 761410.462 | 2202581.325 | CHERRY-10 |
| 6223 | 761409.734 | 2202584.910 | CEDAR-7 |
| 6224 | 761423.846 | 2202584.296 | CHERRY-4 |
| 6225 | 761438.719 | 2202589.790 | CHERRY-B |
| 6226 | 761435.986 | 2202590.244 | SWEET GUM-B |
| 6227 | 761429.364 | 2202589.024 | SWEET GUM-11 |
| 6228 | 761428.331 | 2202588.395 | SWEET GUM-9 |
| 6229 | 761435.469 | 2202585.321 | BRAUFORD PEAR-4 |
| 6230 | 761453.836 | 2202593.164 | OAK-8 |
| 6231 | 761454.339 | 2202594.369 | OAK-27 |
| 6232 | 761462.870 | 2202595.852 | OAK-18 |
| 6233 | 761467.122 | 2202594.525 | OAK-7 |
| 6234 | 761485.052 | 2202596.549 | SWEET GUM-8 |
| 6235 | 761482.602 | 2202593.089 | SWEET GUM-8 |
| 6236 | 761494.097 | 2202592.908 | CEDAR-5 |
| 6237 | 761503.809 | 2202590.908 | CEDAR-7 |
| 6238 | 761507.456 | 2202593.338 | CHERRY-5 |
| 6239 | 761512.563 | 2202590.286 | SWEET GUM-7 |
| 6240 | 761525.066 | 2202587.000 | OAK-18 |
| 6241 | 761527.229 | 2202586.513 | SWEET GUM-4 |
| 6242 | 761529.155 | 2202586.475 | CEDAR-4 |
| 6243 | 761540.840 | 2202584.408 | BRAUFORD PEAR-7 |
| 6244 | 761542.150 | 2202583.434 | OAK-5 |
| 6245 | 761534.401 | 2202583.936 | SWEET GUM-B |
| 6246 | 761758.972 | 2202544.218 | OAK-9 |
| 6247 | 761760.783 | 2202552.404 | OAK-7 |
| 6248 | 761764.823 | 2202555.858 | OAK-4 |
| 6249 | 761764.804 | 2202558.175 | SWEET GUM-5 |
| 6250 | 761768.543 | 2202558.236 | OAK-5 |
| 6251 | 761776.244 | 2202570.541 | OAK-4 |
| 6252 | 761775.351 | 2202568.119 | CHINABERRY-7X2 |
| 6253 | 761774.528 | 2202564.391 | OAK-4 |
| 6254 | 761801.910 | 2202600.836 | OAK-5 |
| 6255 | 761808.215 | 2202611.799 | CHINABERRY-11 |
| 6256 | 761803.777 | 2202611.937 | CHINABERRY-19 |
| 6257 | 761807.115 | 2202618.437 | CHINABERRY-7 |
| 6258 | 761805.711 | 2202616.515 | CHINABERRY-4 |
| 6259 | 761816.433 | 2202623.700 | OAK-11 |
| 6260 | 761819.196 | 2202622.737 | OAK-8 |
| 6261 | 761816.182 | 2202619.452 | OAK-4 |
| 6262 | 761822.666 | 2202632.380 | OAK-12 |
| 6263 | 761831.660 | 2202641.175 | CHINABERRY-11X3 |
| 6264 | 761837.183 | 2202643.970 | CHINABERRY-11X2 |
| 6265 | 761839.450 | 2202647.234 | CHINABERRY-11X3 |
| 6266 | 761814.819 | 2202631.253 | CHINABERRY-10 |
| 6267 | 761816.300 | 2202635.425 | CHINABERRY-9 |
| 6268 | 761822.055 | 2202641.538 | CHINABERRY-5 |



| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| L-1 | N 14°32'48" E | 122.39' |
| L-2 | S 67°30'28" E | 51.00' |

| | |
|------|-------------------------------|
| EP | - EXISTING IRON PIPE |
| EB | - EXISTING IRON BAR |
| SBP | - BENT IRON PIPE |
| SB | - BENT IRON BAR |
| CB | - CONCRETE MONUMENT |
| EPK | - EXISTING PIV NAIL |
| SN | - SET PIV NAIL |
| NP | - NEW IRON PIPE SET |
| R/W | - RIGHT OF WAY |
| CATV | - CABLE TV BOX |
| EB | - ELECTRIC BOX |
| TEL | - TELEPHONE PEDESTAL |
| PP | - POWER POLE |
| OHL | - OVERHEAD LINE |
| LP | - LIGHT POLE |
| WV | - WATER VALVE |
| SW | - SEWER CLEAN-OUT |
| CC | - CONCRETE |
| CB | - CATCH BASIN |
| WM | - MANHOLE |
| FH | - FIRE HYDRANT |
| RTW | - RETAINING WALL |
| ⊙ | - D.O.T. DISC (FIELD LOCATED) |

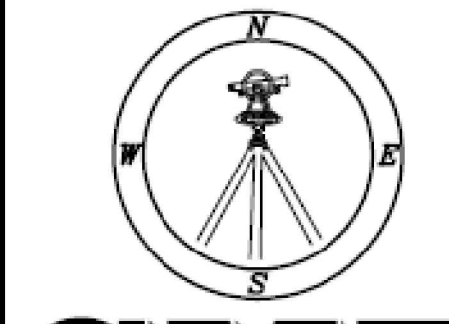
- NOTES:**
- THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF RECORD PRIOR TO THE DATE OF THIS PLAT.
 - UNDERGROUND UTILITIES HAVE BEEN MARKED OR LOCATED FOR THIS PLAT BY GC MAPPING SERVICE, INC.
 - ALL BEARINGS AND DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS.
 - ALL ELEVATIONS ARE BASED ON NAVD 88.
 - ALL CONTOURS ARE AT 1' INTERVALS HIGHLIGHTED EVERY 5'.
 - THERE IS NO MONUMENT WITHIN 2000' OF THIS PROPERTY.
 - NORTH ROTATION WAS OBTAINED VIA NC-VRS.

| | |
|-----|------------------------------------|
| --- | PROPERTY LINE - LINE SURVEYED |
| --- | RIGHT-OF-WAY |
| --- | ADJOINING LINE - LINE NOT SURVEYED |
| --- | BUILDING SETBACK |
| --- | OVERHEAD LINE |
| --- | BUFFER |
| --- | FLUO HAZARD SOILS |
| --- | ELECTRIC LINE |
| --- | PHONE LINE |
| --- | WATER LINE |
| --- | SEWER LINE |
| --- | CONCRETE |
| --- | PRELINE |

| NO. | DATE | DESCRIPTION |
|-----|--------|--|
| 1 | 2/6/23 | ADDED WM LOCATION AND REVISED UTILITY LINE ALONG SHEPARD SCHOOL RD |

TOPOGRAPHIC SURVEY FOR
STORAGE MAX
 901 PROCTOR STREET
 OWNER: TWIN AGRI SERVICES, INC.
 REF: 11740, PAGE 2641
 LITTLE RIVER
 WAKE COUNTY, NORTH CAROLINA

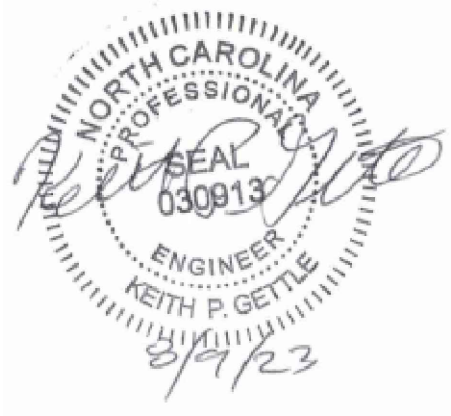
60 30 0 60 120
 SCALE 1"=60'
 DECEMBER 21, 2022
 ZONED HC
 PIN #2706.18-21-7463



CMP PROFESSIONAL LAND SURVEYORS, C-1525, 333 S. WHITE STREET, P.O. BOX 1253, WAKE FOREST N.C., 27588, (919) 556-3148

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934
 Firm License P-2538

| NO. | DATE | COMMENT | BY |
|-----|------|---------|----|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |



Existing Conditions Survey
StorageMax
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No.

| TREE SPECIES & SIZE(IN) TABLE | | | |
|-------------------------------|------------|-------------|------------------|
| Point | Northing | Easting | Description |
| 6174 | 761085.096 | 2202622.318 | SWEET GUM-26 |
| 6175 | 761031.969 | 2202655.727 | SWEET GUM-22 |
| 6178 | 761224.598 | 2202568.487 | OAK-8 |
| 6179 | 761215.696 | 2202574.439 | BRADFORD PEAR-5 |
| 6180 | 761204.663 | 2202566.320 | OAK-13 |
| 6181 | 761214.357 | 2202566.790 | CHERRY-9 |
| 6182 | 761216.192 | 2202564.746 | CEDAR-8 |
| 6183 | 761191.087 | 2202568.571 | CEDAR-8 |
| 6184 | 761193.251 | 2202574.966 | CEDAR-10 |
| 6185 | 761181.572 | 2202575.734 | PRIVET-4X3 |
| 6186 | 761176.699 | 2202573.424 | PRIVET-4 |
| 6187 | 761163.074 | 2202581.026 | SWEET GUM-7 |
| 6188 | 761164.004 | 2202575.940 | SWEET GUM-9 |
| 6189 | 761128.633 | 2202563.736 | CHINABERRY-6 |
| 6190 | 761136.190 | 2202564.997 | SWEET GUM-8X2 |
| 6191 | 761145.027 | 2202581.485 | BRADFORD PEAR-7 |
| 6192 | 761143.632 | 2202585.004 | CHINABERRY-8 |
| 6193 | 761143.133 | 2202580.059 | CHINABERRY-4 |
| 6194 | 761252.133 | 2202572.561 | CHERRY-4 |
| 6195 | 761243.993 | 2202578.908 | CHINABERRY-4X2 |
| 6196 | 761272.803 | 2202570.394 | ELM-4 |
| 6197 | 761267.266 | 2202567.289 | OAK-7 |
| 6198 | 761265.328 | 2202575.248 | CHINABERRY-6 |
| 6199 | 761508.967 | 2202569.211 | OAK-21 |
| 6200 | 761317.252 | 2202569.247 | SWEET GUM-8X2 |
| 6201 | 761320.654 | 2202569.341 | OAK-7 |
| 6202 | 761327.774 | 2202569.191 | CHERRY-6 |
| 6203 | 761324.010 | 2202570.176 | CHERRY-5 |
| 6204 | 761327.806 | 2202575.451 | BRADFORD PEAR-10 |
| 6205 | 761323.404 | 2202574.384 | PINE-4 |
| 6206 | 761332.163 | 2202567.391 | OAK-4 |
| 6207 | 761340.449 | 2202572.910 | OAK-11 |
| 6208 | 761345.444 | 2202569.132 | OAK-11 |
| 6209 | 761343.307 | 2202566.635 | CEDAR-4 |
| 6210 | 761373.558 | 2202571.169 | CEDAR-4 |
| 6211 | 761355.945 | 2202568.262 | SWEET GUM-9 |
| 6212 | 761355.480 | 2202573.304 | OAK-8 |
| 6213 | 761361.833 | 2202569.043 | CEDAR-5 |
| 6214 | 761367.997 | 2202572.061 | OAK-11 |
| 6215 | 761373.558 | 2202571.169 | OAK-5 |
| 6216 | 761373.510 | 2202573.973 | BRADFORD PEAR-8 |
| 6217 | 761383.379 | 2202574.540 | CEDAR-8 |
| 6218 | 761388.348 | 2202577.079 | CHERRY-7 |
| 6219 | 761380.696 | 2202575.970 | CEDAR-8 |
| 6220 | 761393.644 | 2202575.338 | CEDAR-8 |
| 6221 | 761405.925 | 2202584.009 | SWEET GUM-13X3 |
| 6222 | 761410.462 | 2202581.325 | CHERRY-10 |
| 6223 | 761409.734 | 2202584.910 | CEDAR-7 |
| 6224 | 761423.946 | 2202584.696 | CHERRY-4 |
| 6225 | 761438.719 | 2202589.790 | CHERRY-4 |
| 6226 | 761435.986 | 2202590.244 | SWEET GUM-8 |
| 6227 | 761429.364 | 2202589.024 | SWEET GUM-11 |
| 6228 | 761428.331 | 2202586.395 | SWEET GUM-8 |
| 6229 | 761435.469 | 2202596.321 | BRADFORD PEAR-4 |
| 6230 | 761453.836 | 2202593.184 | OAK-8 |
| 6231 | 761454.339 | 2202594.369 | OAK-27 |
| 6232 | 761462.670 | 2202595.652 | OAK-18 |
| 6233 | 761467.122 | 2202594.529 | OAK-7 |
| 6234 | 761485.052 | 2202596.549 | SWEET GUM-8 |
| 6235 | 761492.602 | 2202593.089 | SWEET GUM-6 |
| 6236 | 761494.097 | 2202593.909 | CEDAR-5 |
| 6237 | 761503.809 | 2202590.908 | CEDAR-7 |
| 6238 | 761507.456 | 2202590.338 | CHERRY-5 |
| 6239 | 761512.563 | 2202590.286 | SWEET GUM-7 |
| 6240 | 761525.066 | 2202587.000 | OAK-18 |
| 6241 | 761527.229 | 2202585.513 | SWEET GUM-4 |
| 6242 | 761529.155 | 2202586.475 | CEDAR-6 |
| 6243 | 761540.840 | 2202584.408 | BRADFORD PEAR-7 |
| 6244 | 761542.150 | 2202583.434 | OAK-6 |
| 6245 | 761534.401 | 2202583.939 | SWEET GUM-8 |
| 6246 | 761538.972 | 2202584.218 | OAK-9 |
| 6247 | 761670.783 | 2202552.404 | OAK-7 |
| 6248 | 761764.823 | 2202555.858 | OAK-4 |
| 6249 | 761764.804 | 2202558.175 | SWEET GUM-5 |
| 6250 | 761768.543 | 2202556.236 | OAK-5 |
| 6251 | 761775.244 | 2202570.541 | OAK-4 |
| 6252 | 761775.351 | 2202568.119 | CHINABERRY-7X2 |
| 6253 | 761774.528 | 2202564.391 | OAK-4 |
| 6254 | 761801.910 | 2202600.836 | OAK-5 |
| 6255 | 761808.215 | 2202611.799 | CHINABERRY-11 |
| 6256 | 761803.777 | 2202611.937 | CHINABERRY-19 |
| 6257 | 761807.115 | 2202618.437 | CHINABERRY-7 |
| 6258 | 761805.711 | 2202616.515 | CHINABERRY-4 |
| 6259 | 761816.433 | 2202623.170 | OAK-11 |
| 6260 | 761819.156 | 2202622.737 | OAK-8 |
| 6261 | 761816.162 | 2202618.452 | OAK-4 |
| 6262 | 761822.666 | 2202632.380 | OAK-12 |
| 6263 | 761831.660 | 2202641.175 | CHINABERRY-12X3 |
| 6264 | 761837.183 | 2202643.970 | CHINABERRY-11X2 |
| 6265 | 761839.450 | 2202647.234 | CHINABERRY-11X3 |
| 6266 | 761814.819 | 2202631.253 | CHINABERRY-10 |
| 6267 | 761816.300 | 2202635.425 | CHINABERRY-5 |
| 6268 | 761822.055 | 2202641.536 | CHINABERRY-5 |

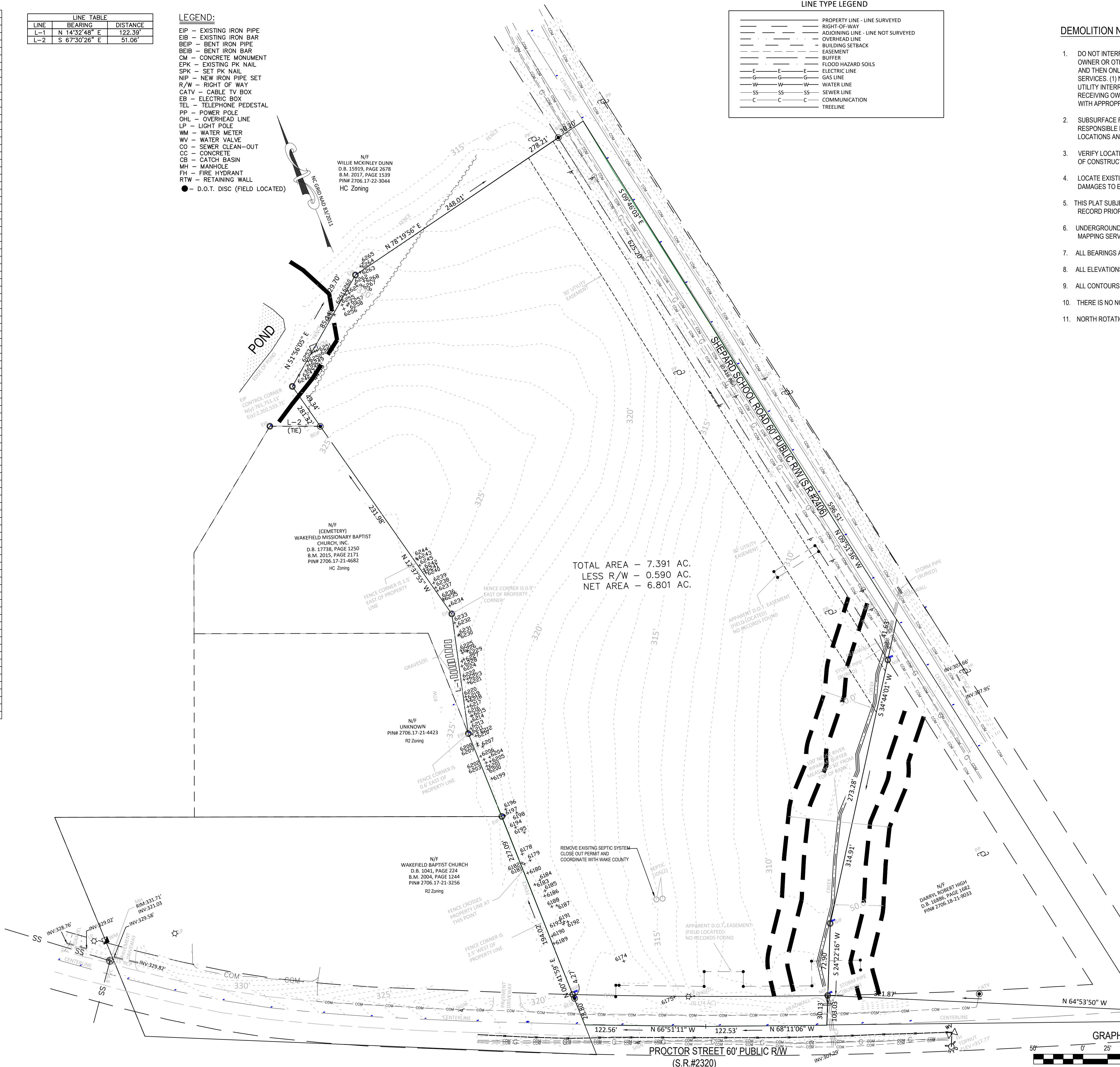
| LINE TABLE | | |
|------------|---------------|----------|
| LINE | BEARING | DISTANCE |
| L-1 | N 14°32'48" E | 122.39' |
| L-2 | S 67°30'26" E | 51.06' |

LEGEND:
 EIP - EXISTING IRON PIPE
 EIB - EXISTING IRON BAR
 BEIP - BENT IRON PIPE
 BEIB - BENT IRON BAR
 CM - CONCRETE MONUMENT
 EPK - EXISTING PK NAIL
 SPK - SET PK NAIL
 NIP - NEW IRON PIPE SET
 R/W - RIGHT OF WAY
 CATV - CABLE TV BOX
 EB - ELECTRIC BOX
 TEL - TELEPHONE PEDESTAL
 PP - POWER POLE
 OHL - OVERHEAD LINE
 LP - LIGHT POLE
 WM - WATER METER
 WV - WATER VALVE
 CO - SEWER CLEAN-OUT
 CC - CONCRETE
 CB - CATCH BASIN
 MH - MANHOLE
 FH - FIRE HYDRANT
 RTW - RETAINING WALL
 ● - D.O.T. DISC (FIELD LOCATED)

| LINE TYPE LEGEND | |
|------------------|------------------------------------|
| --- | PROPERTY LINE - LINE SURVEYED |
| --- | RIGHT-OF-WAY |
| --- | ADJOINING LINE - LINE NOT SURVEYED |
| --- | OVERHEAD LINE |
| --- | BUILDING SETBACK |
| --- | EASEMENT |
| --- | BUFFER |
| --- | FLOOD HAZARD SOILS |
| E - E | ELECTRIC LINE |
| G - G | GAS LINE |
| W - W | WATER LINE |
| SS - SS | SEWER LINE |
| C - C | COMMUNICATION |
| --- | TRELLINE |

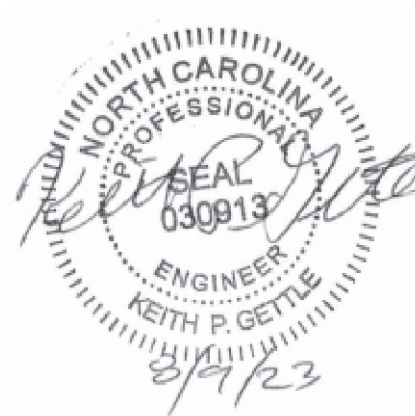
DEMOLITION NOTES

- DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS EXCEPT WHEN PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE ACCEPTABLE TEMPORARY UTILITY SERVICES. (1) NOTIFY OWNER NOT LESS THAN ONE WEEK IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS. (2) DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT RECEIVING OWNER WRITTEN PERMISSION. (3) COORDINATE ALL UTILITY RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
- SUBSURFACE FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UTILITY LOCATIONS AND DEPTHS.
- VERIFY LOCATIONS AND SIZES OF ALL EXISTING FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND REPAIR OR REPLACE ANY DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION.
- THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF RECORD PRIOR TO THE DATE OF THIS PLAT.
- UNDERGROUND UTILITIES HAVE BEEN MARKED OR LOCATED FOR THIS PLAT BY GC MAPPING SERVICES, INC.
- ALL BEARINGS AND DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS
- ALL ELEVATIONS ARE BASED ON NAVD 88
- ALL CONTOURS ARE AT 1' INTERVALS HIGHLIGHTED EVERY 5'.
- THERE IS NO NCGS MONUMENT WITHIN 2000' OF THIS PROPERTY.
- NORTH ROTATION WAS OBTAINED VIA NC-VRS.



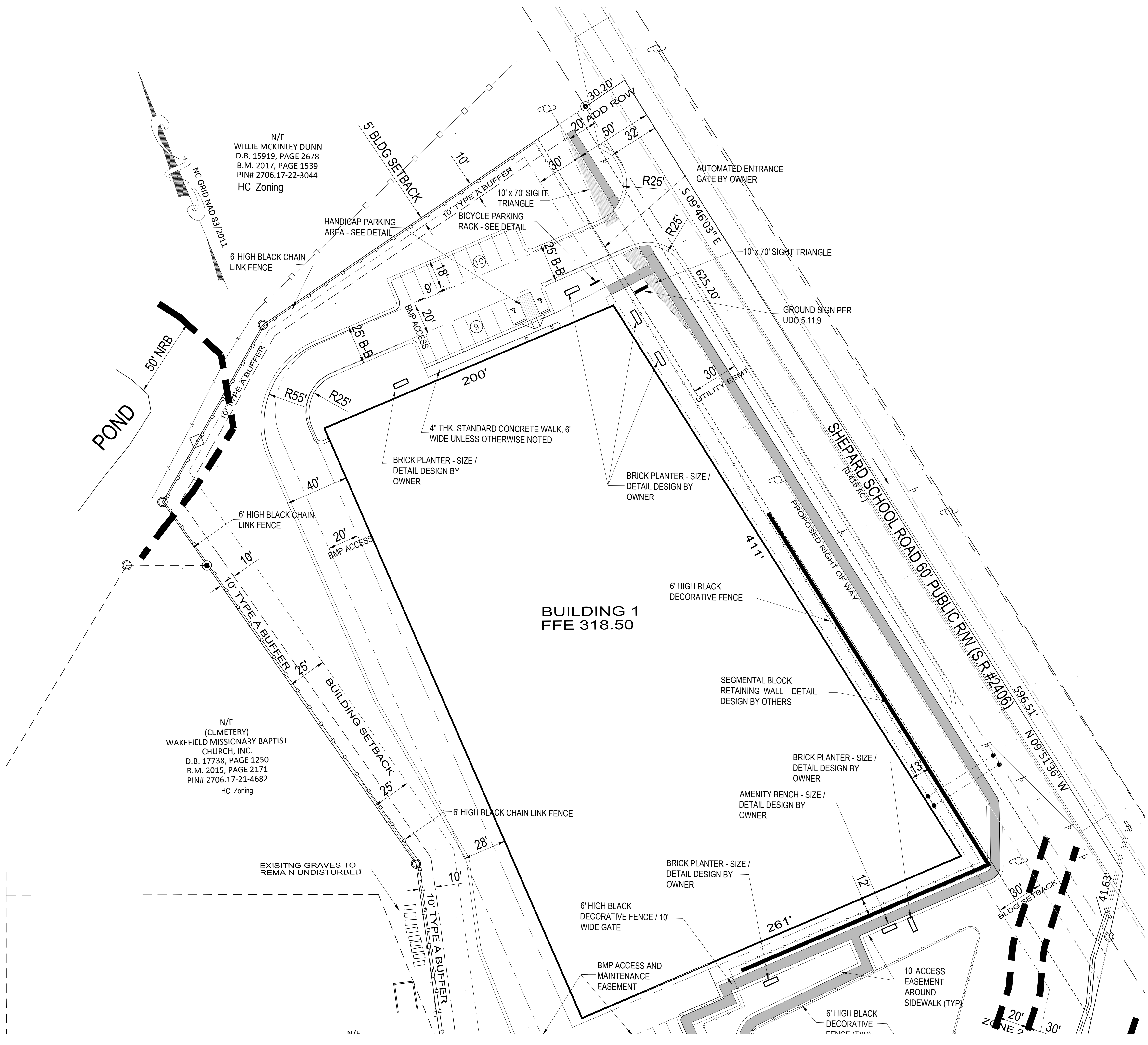
Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

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Existing Conditions / Tree Survey
StorageMax
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **C1**



N/F
WILLIE MCKINLEY DUNN
D.B. 15919, PAGE 2678
B.M. 2017, PAGE 1539
PIN# 2706.17-22-3044
HC Zoning

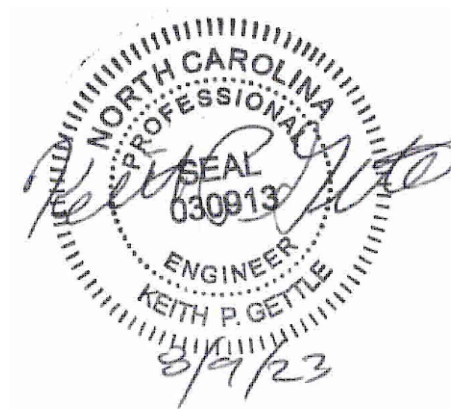
N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250
B.M. 2015, PAGE 2171
PIN# 2706.17-21-4682
HC Zoning

SITE NOTES

- WHERE NEW CURB AND GUTTER IS INSTALLED IN A PUBLIC STREET RIGHT-OF-WAY, USE 30" CURB AND GUTTER. IN OTHER LOCATIONS, USE 24" CURB AND GUTTER.
- ALL CURB DIMENSIONS ARE MEASURED TO BACK OF CURB, AND ALL CURB RADI ARE 3 FEET, UNLESS INDICATED OTHERWISE.
- USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
- ALL SITE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE INDICATED.
- ALL BASE AND PAVING WORK SHALL COMPLY WITH LOCAL STANDARDS. INDICATED PAVEMENT THICKNESSES REFER TO COMPACTED THICKNESS.
- INSTALL ALL PAVEMENT WITH POSITIVE SURFACE DRAINAGE.
- ALL HANDICAPPED PARKING SPACES, AISLES, RAMPS, SIGNAGE, PAVEMENT MARKINGS, CROSSWALKS, AND ACCESSIBLE ROUTES SHALL MEET APPLICABLE REQUIREMENTS OF THE NORTH CAROLINA ACCESSIBILITY CODE.
- ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL HAVE AN R7-8 AND R7-8D SIGN. ALL SIGNS FOR VAN ACCESSIBLE SPACES SHALL ALSO INCLUDE A "VAN ACCESSIBLE" SIGN.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.
- BUILDING SIZE, CONFIGURATION, ARCHITECTURAL ELEMENTS, UTILITY STUBS, AND OTHER BUILDING FEATURES SHOWN ON THESE DRAWINGS ARE TAKEN FROM INFORMATION PROVIDED BY OTHERS. BUILDING LINES SHOWN GENERALLY REPRESENT THE EXTERIOR FACE OF THE BUILDING, BUT SHOULD NOT BE USED FOR BUILDING STAKING OR CONSTRUCTION. REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS, DOOR LOCATIONS, COLUMN AND FOOTING LOCATIONS, WALL THICKNESSES, OVERHANGS, ROOF LINES, AND OTHER FEATURES. CONTRACTOR SHALL COORDINATE UTILITY AND DRAINAGE LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES WITH INFORMATION SHOWN ON THE BUILDING DRAWINGS, AND SHALL VERIFY THAT BUILDING ELEMENTS WILL NOT ENCRONCH INTO REQUIRED SETBACKS.
- PAVEMENT TO BE STNADARD DUTY IN PARKING AREAS AND HEAVY DUTY IN DRIVE AISLES (SEE DETAIL).
- CURB AND GUTTER TO BE 24" STANDARD ON SITE AND 30" STANDARD IN RIGHT OF WAY UNLESS OTHERWISE NOTED (SEE DETAIL).

Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

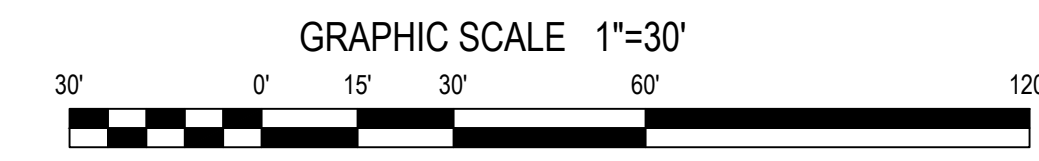
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Site Plan - Enlarged North StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001

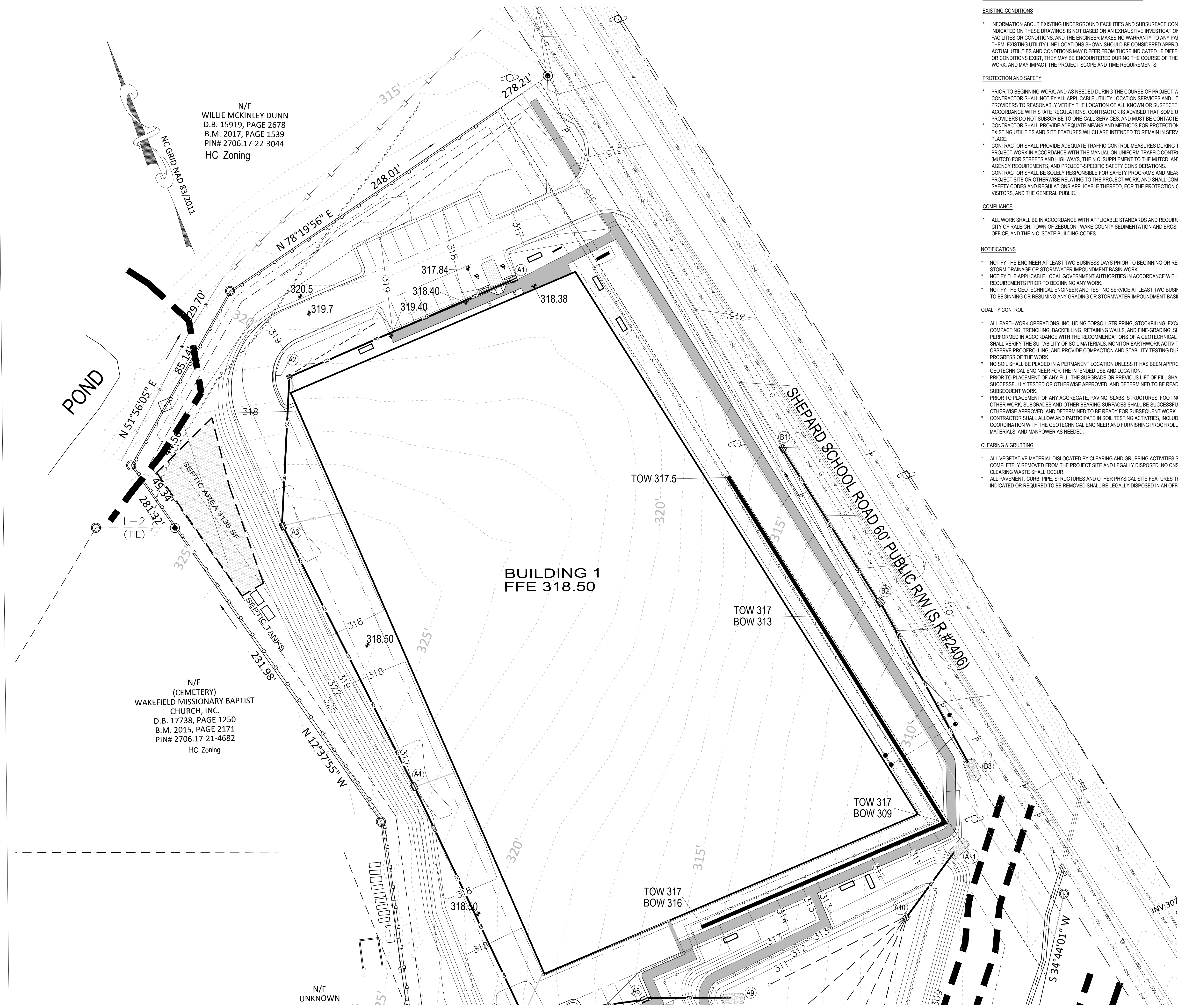
Dwg No. **C3**



N/F
WILLIE MCKINLEY DUNN
D.B. 15919, PAGE 2678
B.M. 2017, PAGE 1539
PIN# 2706.17-22-3044
HC Zoning

N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250
B.M. 2015, PAGE 2171
PIN# 2706.17-21-4682
HC Zoning

N/F
UNKNOWN



GENERAL GRADING AND STORM DRAINAGE SPECIFICATIONS

EXISTING CONDITIONS

• INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS. AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.

PROTECTION AND SAFETY

• PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES. IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN PLACE.
• CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
• CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS, VISITORS, AND THE GENERAL PUBLIC.

COMPLIANCE

• ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS AND REQUIREMENTS OF THE CITY OF RALEIGH, TOWN OF ZEBULON, WAKE COUNTY SEDIMENTATION AND EROSION CONTROL OFFICE, AND THE N.C. STATE BUILDING CODES.

NOTIFICATIONS

• NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING ANY STORM DRAINAGE OR STORMWATER IMPOUNDMENT BASIN WORK.
• NOTIFY THE APPLICABLE LOCAL GOVERNMENT AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING ANY WORK.
• NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING ANY GRADING OR STORMWATER IMPOUNDMENT BASIN WORK.

QUALITY CONTROL

• ALL EARTHWORK OPERATIONS, INCLUDING TOPSOIL STRIPPING, STOCKPILING, EXCAVATION, FILLING, COMPACTING, TRENCHING, BACKFILLING, RETAINING WALLS, AND FINE-GRADING, SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER, WHO SHALL VERIFY THE SUITABILITY OF SOIL MATERIALS, MONITOR EARTHWORK ACTIVITIES, DIRECT AND OBSERVE PROOFROLLING, AND PROVIDE COMPACTATION AND STABILITY TESTING DURING THE PROGRESS OF THE WORK.
• NO SOIL SHALL BE PLACED IN A PERMANENT LOCATION UNLESS IT HAS BEEN APPROVED BY THE GEOTECHNICAL ENGINEER FOR THE INTENDED USE AND LOCATION.
• PRIOR TO PLACEMENT OF ANY FILL, THE SUBGRADE OR PREVIOUS LIFT OF FILL SHALL BE SUCCESSFULLY TESTED OR OTHERWISE APPROVED, AND DETERMINED TO BE READY FOR SUBSEQUENT WORK.
• PRIOR TO PLACEMENT OF ANY AGGREGATE, PAVING, SLABS, STRUCTURES, FOOTINGS, PIPING, OR OTHER WORK, SUBGRADES AND OTHER BEARING SURFACES SHALL BE SUCCESSFULLY TESTED OR OTHERWISE APPROVED, AND DETERMINED TO BE READY FOR SUBSEQUENT WORK.
• CONTRACTOR SHALL ALLOW AND PARTICIPATE IN SOIL TESTING ACTIVITIES, INCLUDING ACTIVE COORDINATION WITH THE GEOTECHNICAL ENGINEER AND FURNISHING PROOFROLLING EQUIPMENT, MATERIALS, AND MANPOWER AS NEEDED.

CLEARING & GRUBBING

• ALL VEGETATIVE MATERIAL DISLOCATED BY CLEARING AND GRUBBING ACTIVITIES SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE AND LEGALLY DISPOSED. NO ONSITE BURNING OF CLEARING WASTE SHALL OCCUR.
• ALL PAVEMENT, CURB, PIPE, STRUCTURES AND OTHER PHYSICAL SITE FEATURES THAT ARE INDICATED OR REQUIRED TO BE REMOVED SHALL BE LEGALLY DISPOSED IN AN OFFSITE LOCATION.

GRADING

• STRUCTURAL FILL IS DEFINED AS SOIL CLASSIFIED AS SM, SC, ML, AND CL, FREE OF VEGETATIVE MATTER, DEBRIS OR OTHER UNSUITABLE MATTER, FREE OF ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION, CAPABLE OF BEING COMPACTED TO THE REQUIRED DENSITY, AND WHICH HAS BEEN APPROVED FOR USE BY THE GEOTECHNICAL ENGINEER.
• OTHER SOIL NOT MEETING THE DEFINITION FOR STRUCTURAL FILL MAY BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR USE UNDER LIMITED CONDITIONS OR IN LIMITED AREAS.
• STRUCTURAL FILL SHALL GENERALLY BE PLACED AND COMPACTED WHEN THE SOIL'S MOISTURE CONTENT IS WITHIN 4 PERCENTAGE POINTS OF THE SOIL'S OPTIMUM MOISTURE CONTENT, IN LIFTS NOT TO EXCEED 8 INCHES LOOSE THICKNESS. THE IN-PLACE COMPACTED DENSITY SHALL BE AT LEAST 90 PCF. TIGHTER SPECIFICATIONS MAY BE REQUIRED FOR CERTAIN AREAS, SOIL TYPES, OR COMPACTION METHODS.
• STRUCTURAL ZONES SHALL INCLUDE ALL AREAS SUBJECT TO DIRECT BEARING PRESSURE PLUS 10 FEET HORIZONTAL PLUS A 1:1 DOWNWARD SLOPE IN ANY AREAS OF FILL.
• ALL SOIL UNDER PAVEMENTS, BUILDINGS, AND WALKWAYS, OR IN STRUCTURAL ZONES ASSOCIATED WITH THESE AREAS SHALL BE APPROVED IN-SITU SOIL, OR STRUCTURAL FILL, COMPACTED TO AT LEAST 95% OF THE SOIL'S MAXIMUM DRY DENSITY (MDD) PER ASTM D496. TIGHTER REQUIREMENTS MAY APPLY FOR CERTAIN AREAS.
• IN THE BUILDING AREA, THE REQUIRED DENSITY OF FILL SHALL BE 100% MDD, EXCEPT THE TOP 12 INCHES OF FILL SHALL BE AT LEAST 98% MDD. WHERE THE BUILDING WILL BE PLACED ON IN-SITU SOIL, THE SOIL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO AT LEAST 98% MDD.
• ALL EXCESS OR UNSUITABLE SOIL SHALL BE LEGALLY DISPOSED IN AN OFFSITE OR APPROVED ONSITE LOCATION.

TRENCHING AND BACKFILLING

• WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH #67 STONE BEDDING.
• WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSTABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
• BACKFILL SOIL SHALL BE STRUCTURAL FILL, PLACED AND COMPACTED IN ACCORDANCE WITH REQUIREMENTS FOR THE SPECIFIC AREA OF WORK, WITHOUT DAMAGING OR DISPLACING PIPE OR STRUCTURES.

STORM DRAINAGE SYSTEM

• STORM DRAINAGE STRUCTURES SHALL CONFORM TO ROULEVILLE AND NCOTD STANDARDS, AND MAY BE CONSTRUCTED OF EITHER SOLID MASONRY OR PRE-CAST CONCRETE. "KNOCK-OUT" TYPE PRE-CAST STRUCTURES SHALL NOT BE USED WHERE THE DESIGNED PIPE CONFIGURATION WOULD REQUIRE REMOVAL OF STRUCTURAL CORNERS OR ALTERATION OF DESIGNED PIPE ENTRY ANGLES.
• STORM DRAINAGE PIPE LENGTHS SHOWN ARE APPROXIMATE, AS MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES, AND TO THE END OF ANY FLARED END SECTION (FES), AS APPLICABLE.
• CONTRACTOR SHALL VERIFY AND COORDINATE EXACT POSITIONING OF STORM DRAINAGE PIPING AND STRUCTURES, AND SHALL MAKE ADJUSTMENTS AS NEEDED TO PROVIDE PROPER CONNECTIONS, STRUCTURE LOCATIONS, ORIENTATIONS, DIMENSIONS, ELEVATIONS, FRAME PLACEMENT, AND SURFACE DRAINAGE. REFER TO STORM DRAINAGE STRUCTURE DETAILS FOR DIMENSIONS, OFFSETS, CLEARANCES, SETBACKS FROM CURB, AND OTHER REQUIREMENTS. MODIFY STRUCTURES AS NEEDED TO ACCOMMODATE LARGE-DIAMETER PIPING, MULTIPLE PIPE PENETRATIONS, AND PIPE CONNECTION ANGLES.
• STORM DRAINAGE PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, CONFORMING TO ASTM C76, UNLESS OTHERWISE SPECIFIED. ALL JOINTS SHALL BE FULLY SEALED USING PREFORMED FLEXIBLE BUTYL RUBBER SEALING COMPOUND.

SURFACE DRAINAGE

• ALL SPOT ELEVATIONS SHOWN ARE FINISHED SURFACE ELEVATIONS. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER ELEVATION CONTOURS. ALL ELEVATIONS SHOWN ON CURB AND GUTTER REFER TO TOP OF CURB, UNLESS OTHERWISE INDICATED.
• ALL FINISHED PAVEMENT AND YARD SURFACES SHALL BE FINE-GRADED AND FINISHED TO HAVE POSITIVE SURFACE DRAINAGE TO A FREE-FLOWING DRAINAGE OUTLET, WITH NO IRREGULARITIES OR DEPRESSIONS THAT WOULD CAUSE UNINTENDED WATER PONDING.
• USE REVERSE-PITCH CURB AND GUTTER WHERE ADJACENT PAVEMENT SLOPES AWAY FROM CURB, AND STANDARD-PITCH CURB AND GUTTER ELSEWHERE, UNLESS OTHERWISE NOTED. PROVIDE POSITIVE DRAINAGE ALONG AND FROM ALL GUTTERS.
• TIE-INS TO EXISTING PAVEMENT, CURBS, WALKS, ETC. SHALL BE MADE WITH NEAT EDGES AND SMOOTH, GRADUAL TRANSITIONS THAT ARE SAFE, FUNCTIONAL, DURABLE, AND VISUALLY ACCEPTABLE TO THE OWNER AND REVIEW AUTHORITIES.

ACCESSIBILITY

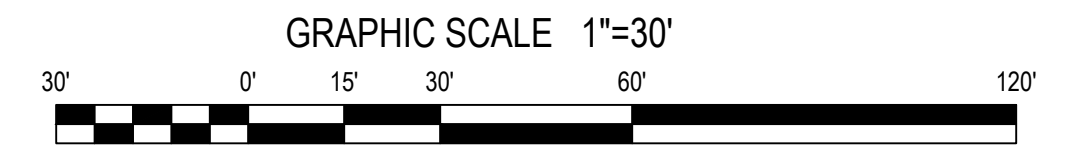
• FINISHED WALKWAY ELEVATIONS ABUTTING EXTERIOR DOORWAY THRESHOLDS SHALL BE ONE-FOURTH INCH BELOW THE ADJOINING FINISHED FLOOR ELEVATION. EXTERIOR PADS AND WALKWAYS SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NO LESS THAN 1.0% AND NO GREATER THAN 2.0% SIDEWALKS, CROSSWALKS, AND OTHER WALKWAYS SHALL NOT EXCEED 2.0% CROSS-SLOPE.
• NO PORTION OF ANY HANDICAP ACCESSIBLE ROUTE SHALL EXCEED 2.0% CROSS-SLOPE OR 5.0% LONGITUDINAL SLOPE.
• NO PORTION OF ANY HANDICAP PARKING SPACE OR ADJOINING ACCESS AISLE SHALL EXCEED 2.0% SLOPE IN ANY DIRECTION.

BMP NOTES

• SEE THE DETAIL SHEET FOR SPECIFICS REGARDING THE BIORETENTION DEVICE.

NOTES

1. SEE SHEET C7 FOR STORM DRAIN SCHEDULE.



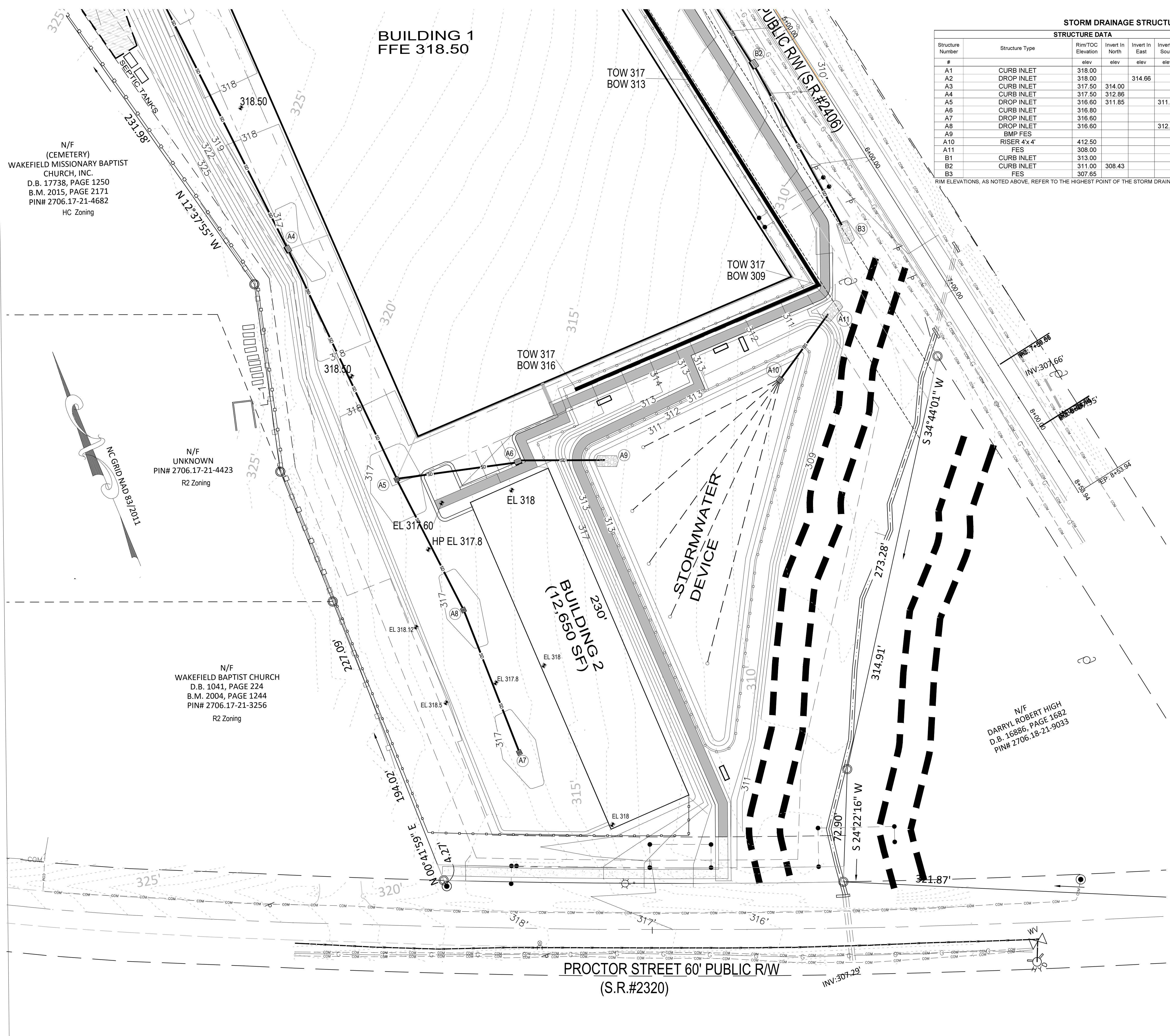
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Grading - Enlarged North StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C6**



STORM DRAINAGE STRUCTURE SCHEDULE

| STRUCTURE DATA | | | | | | | PIPE DATA | | | | REMARKS | | |
|------------------|----------------|-------------------|-----------------|----------------|-----------------|----------------|------------|-----|-----------------|------------|---------|-----------------|-------------------------------------|
| Structure Number | Structure Type | Rim/TOC Elevation | Invert In North | Invert In East | Invert In South | Invert In West | Invert Out | To | Pipe Length Out | Pipe Slope | | Design Diameter | Pipe Material |
| A1 | CURB INLET | 318.00 | | | | | 315.43 | A2 | 155.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| A2 | DROP INLET | 318.00 | | | | | 314.46 | A3 | 93.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A3 | CURB INLET | 317.50 | 314.00 | | | | 313.78 | A4 | 184.0 | 0.50% | 24 | RCP | NCDOT 840.02 |
| A4 | CURB INLET | 317.50 | | | | | 312.86 | A5 | 161.0 | 0.50% | 24 | RCP | NCDOT 840.02 |
| A5 | DROP INLET | 316.60 | 311.85 | | | | 311.65 | A6 | 76.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A6 | CURB INLET | 316.60 | | | | | 311.07 | A9 | 54.0 | 0.70% | 24 | RCP | NCDOT 840.02 |
| A7 | DROP INLET | 316.60 | | | | | 313.60 | A8 | 95.5 | 1.20% | 24 | RCP | NCDOT 840.14 |
| A8 | DROP INLET | 316.60 | | | | | 312.30 | A5 | 90.5 | 0.50% | 24 | RCP | NCDOT 840.12 |
| A9 | BMP FES | 316.60 | | | | | 310.80 | | | | | | Rip Rap Apron L= 12', W=6.8', T=18" |
| A10 | RISER 4x4' | 412.50 | | | | | 308.25 | A11 | 50.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A11 | FES | 308.00 | | | | | | | | | | | Rip Rap Apron L= 12', W=6.8', T=18" |
| B1 | CURB INLET | 313.00 | | | | | 309.00 | B2 | 113.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| B2 | CURB INLET | 311.00 | 308.43 | | | | 308.23 | B3 | 116.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| B3 | FES | 307.65 | | | | | | | | | | | Rip Rap Apron L= 12', W=6.8', T=18" |

RIM ELEVATIONS, AS NOTED ABOVE, REFER TO THE HIGHEST POINT OF THE STORM DRAINAGE STRUCTURE TOP.

N/F (CEMETERY) WAKEFIELD MISSIONARY BAPTIST CHURCH, INC. D.B. 17738, PAGE 1250 B.M. 2015, PAGE 2171 PIN# 2706.17-21-4682 HC Zoning

N/F UNKNOWN PIN# 2706.17-21-4423 R2 Zoning

N/F WAKEFIELD BAPTIST CHURCH D.B. 1041, PAGE 224 B.M. 2004, PAGE 1244 PIN# 2706.17-21-3256 R2 Zoning

N/F DARRYL ROBERT HIGH D.B. 16886, PAGE 1682 PIN# 2706.18-21-9033

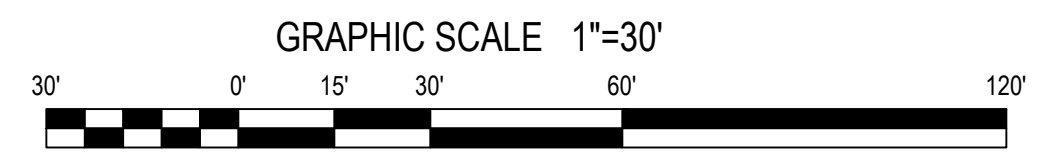
Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

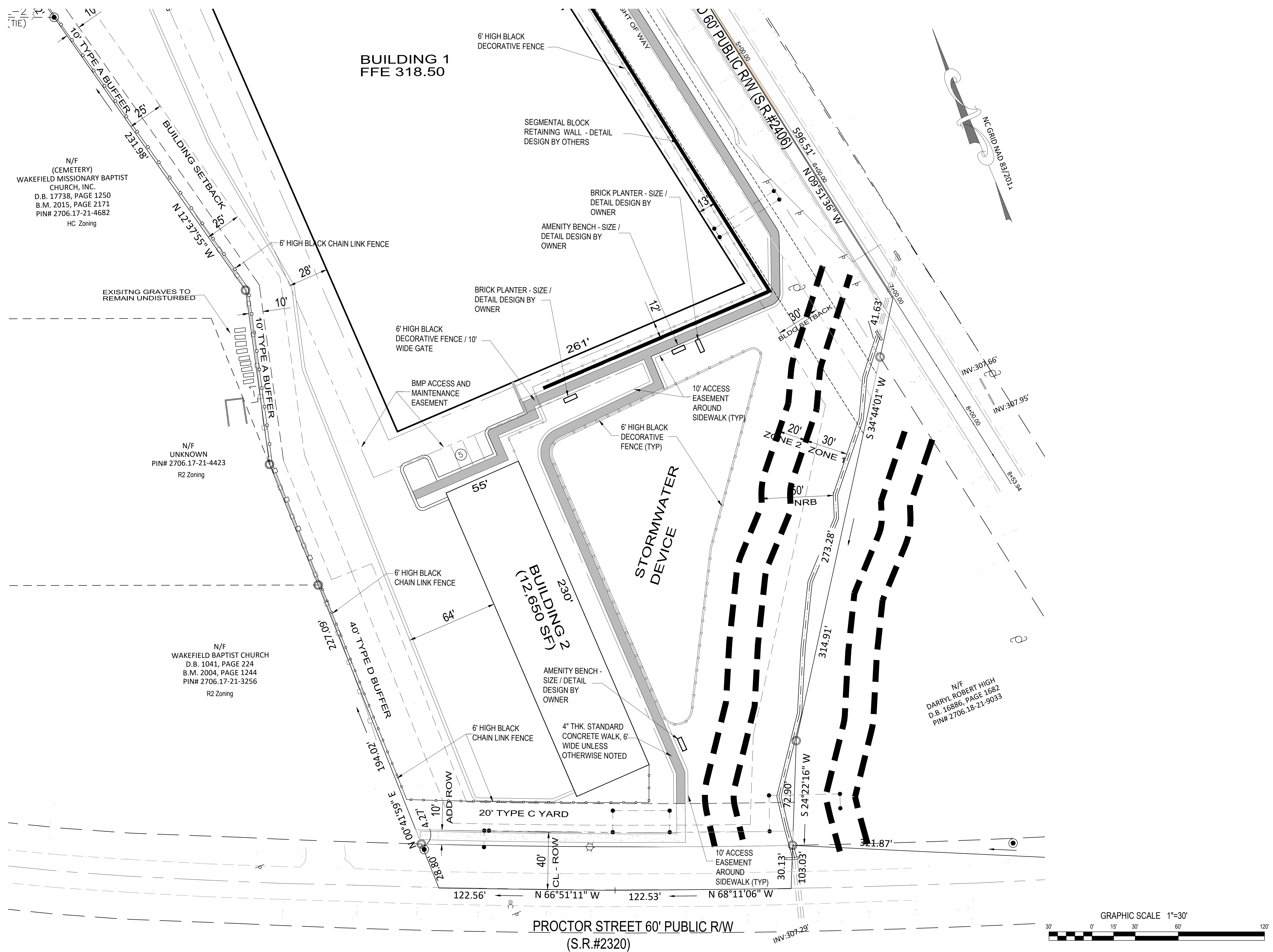
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Grading - Enlarged South StorageMax
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **C7**





N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250
B.M. 2015, PAGE 2171
PIN# 2706.17-21-4682
HC Zoning

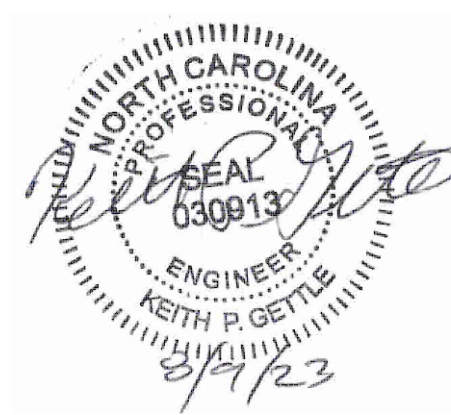
N/F
UNKNOWN
PIN# 2706.17-21-4423
R2 Zoning

N/F
WAKEFIELD BAPTIST CHURCH
D.B. 1041, PAGE 224
B.M. 2004, PAGE 1244
PIN# 2706.17-21-3256
R2 Zoning

N/F
DARRYL ROBERT HIGH
D.B. 16886, PAGE 1682
PIN# 2706.18-21-9033

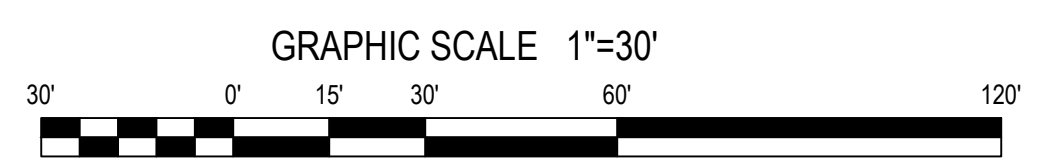
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

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Site Plan - Enlarged South
StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C4**



N/F
WILLIE MCKINLEY DUNN
D.B. 15919, PAGE 2678
B.M. 2017, PAGE 1539
PIN# 2706.17-22-3044
HC Zoning

NC GRID MAD 83/2011

POND

BUILDING 1
FFE 318.50

N/F
(CEMETERY)
WAKEFIELD MISSIONARY BAPTIST
CHURCH, INC.
D.B. 17738, PAGE 1250

- KEY**
- 1 12" EXISTING WATER LINE LOCATION SHOWN IS APPROXIMATE. COORDINATE WITH CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO STARTING WATERLINE CONSTRUCTION. CONFORM TO ALL WATER AUTHORITY STANDARDS AND REQUIREMENTS, AND TO ALL RIGHT-OF-WAY ENCROACHMENT CONDITIONS. VERIFY EXISTING PIPE SIZE AND MATERIAL, AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES.
 - 2 2" CORPORATION STOP.
 - 3 2" COPPER SERVICE LINE
 - 4 90 DEGREE, OR 45 DEGREE, OR 22.5 DEGREE MJ BEND AND RESTRAINT.
 - 5 16" CASING PIPE FOR WATER SERVICE LINE - BORE AND JACK
 - 6 EXISTING WATER METER TO BE REMOVED / ABANDONED
 - 7 6" BACKFLOW PREVENTER DEVICE (RPDA), RALEIGH APPROVED, LOCATED IN AN "ABOVE GROUND" HEATED ENCLOSURE.
 - 8 6"x6" TAPPING SLEEVE AND 6" GATE VALVE
 - 9 2" WATER METER - SEE COR DETAIL
 - 10 2" RP BACKFLOW ASSEMBLIES BY WATTS OR APPROVED EQUAL
 - 11 PVC DOWNSPOUT PIPE HEADER. TIE INTO STORM DRAIN STRUCTURE. FIELD VERIFY LOCATION / ELEVATION
 - 12 4" PVC, SDR 35, PRIVATE SANITARY SEWER LATERAL TO SEPTIC SYSTEM
 - 13 SANITARY SEPTIC TANKS
 - 14 FIRE DEPARTMENT CONNECTION TYPE SHALL BE 5 INCH STORZ, WITH MJ FITTINGS AS NEEDED.
 - 15 6" DUCTILE IRON PIPE WATER LINE, 30" BELOW FINISH GRADE
 - 16 FIRE HYDRANT ASSEMBLY WITH 6" VALVE AND BOX. SEE COR DETAIL W4.
 - 17 SANITARY SEWER SERVICE LINE - BORE AND JACK
 - 18 20" x 30" BORE PIT

NOTES

1. SEE SHEET C7 FOR STORM DRAIN SCHEDULE.
2. SEE SHEET C8 FOR UTILITY NOTES.

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)
The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

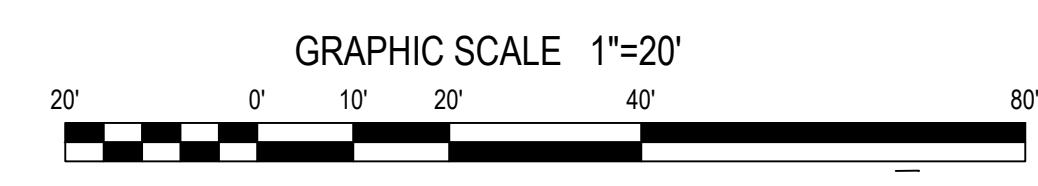
The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

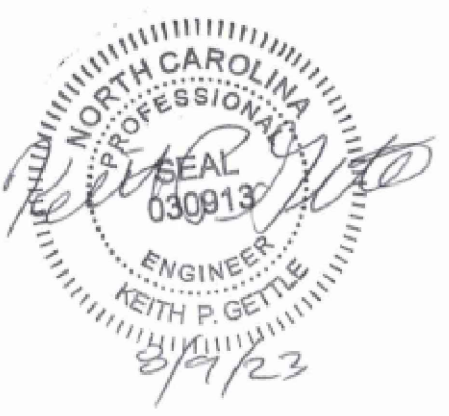
Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
City of Raleigh Review Officer _____



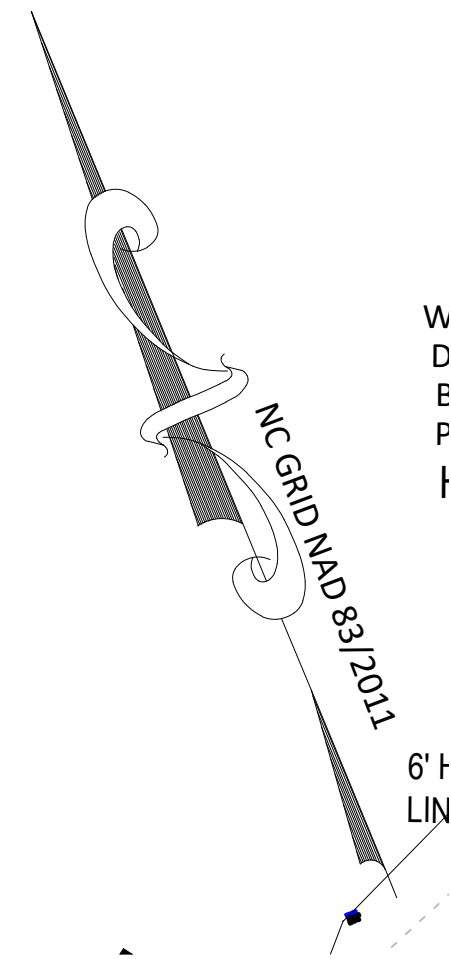
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Utility Plan-Enlarged North StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. **C9**

Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538



N/F
UNKNOWN
PIN# 2706.17-21-4423
R2 Zoning

N/F
WAKEFIELD BAPTIST CHURCH
D.B. 1041, PAGE 224
B.M. 2004, PAGE 1244
PIN# 2706.17-21-3256
R2 Zoning

222.72'

194.02'

4.27'

BUILDING 2
(SF 650)
233.0'

STORMWATER
DEVICE

PROCTOR STREET 60' PUBLIC R/W
(S.R.#2320)

KEY

- KEYED NOTES UTILITY PLAN
- 1 12" EXISTING WATER LINE LOCATION SHOWN IS APPROXIMATE. COORDINATE WITH CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO STARTING WATERLINE CONSTRUCTION. CONFORM TO ALL WATER AUTHORITY STANDARDS AND REQUIREMENTS, AND TO ALL RIGHT-OF-WAY ENCROACHMENT CONDITIONS. VERIFY EXISTING PIPE SIZE AND MATERIAL, AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES.
 - 2 2" CORPORATION STOP.
 - 3 2" COPPER SERVICE LINE
 - 4 90 DEGREE, OR 45 DEGREE, OR 22.5 DEGREE MJ BEND AND RESTRAINT.
 - 5 16" CASING PIPE FOR WATER SERVICE LINE - BORE AND JACK
 - 6 EXISTING WATER METER TO BE REMOVED / ABANDONED
 - 7 6" BACKFLOW PREVENTER DEVICE (RPDA), RALEIGH APPROVED, LOCATED IN AN 'ABOVE GROUND' HEATED ENCLOSURE.
 - 8 6"x6" TAPPING SLEEVE AND 6" GATE VALVE
 - 9 2" WATER METER - SEE COR DETAIL
 - 10 2" RP BACKFLOW ASSEMBLY BY WATTS OR APPROVED EQUAL
 - 11 PVC DOWNSPOUT PIPE HEADER. TIE INTO STORM DRAIN STRUCTURE. FIELD VERIFY LOCATION / ELEVATION
 - 12 4" PVC, SDR-35, PRIVATE SANITARY SEWER LATERAL TO SEPTIC SYSTEM
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 - 14 FIRE DEPARTMENT CONNECTION TYPE SHALL BE 5 INCH STORZ, WITH MJ FITTINGS AS NEEDED.
 - 15 6" DUCTILE IRON PIPE WATER LINE, 30" BELOW FINISH GRADE
 - 16 FIRE HYDRANT ASSEMBLY WITH 6" VALVE AND BOX. SEE COR DETAIL W4.
 - 17 SANITARY SEWER SERVICE LINE - BORE AND JACK
 - 18 20' x 30' BORE PIT

NOTES

1. SEE SHEET C7 FOR STORM DRAIN SCHEDULE.
2. SEE SHEET C8 FOR UTILITY NOTES.

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)
The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook, City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook, City of Raleigh Public Utilities Department Permit # _____

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City of Raleigh Public Utilities Department Permit # _____

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Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

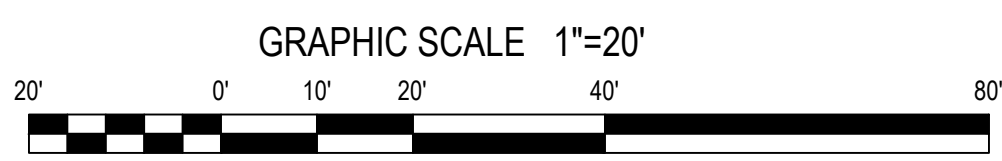
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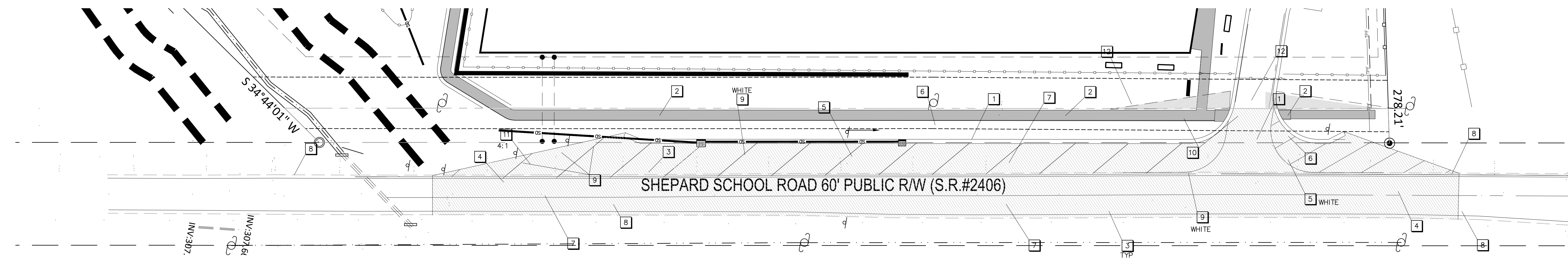


Utility Plan - South Enlarged
StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

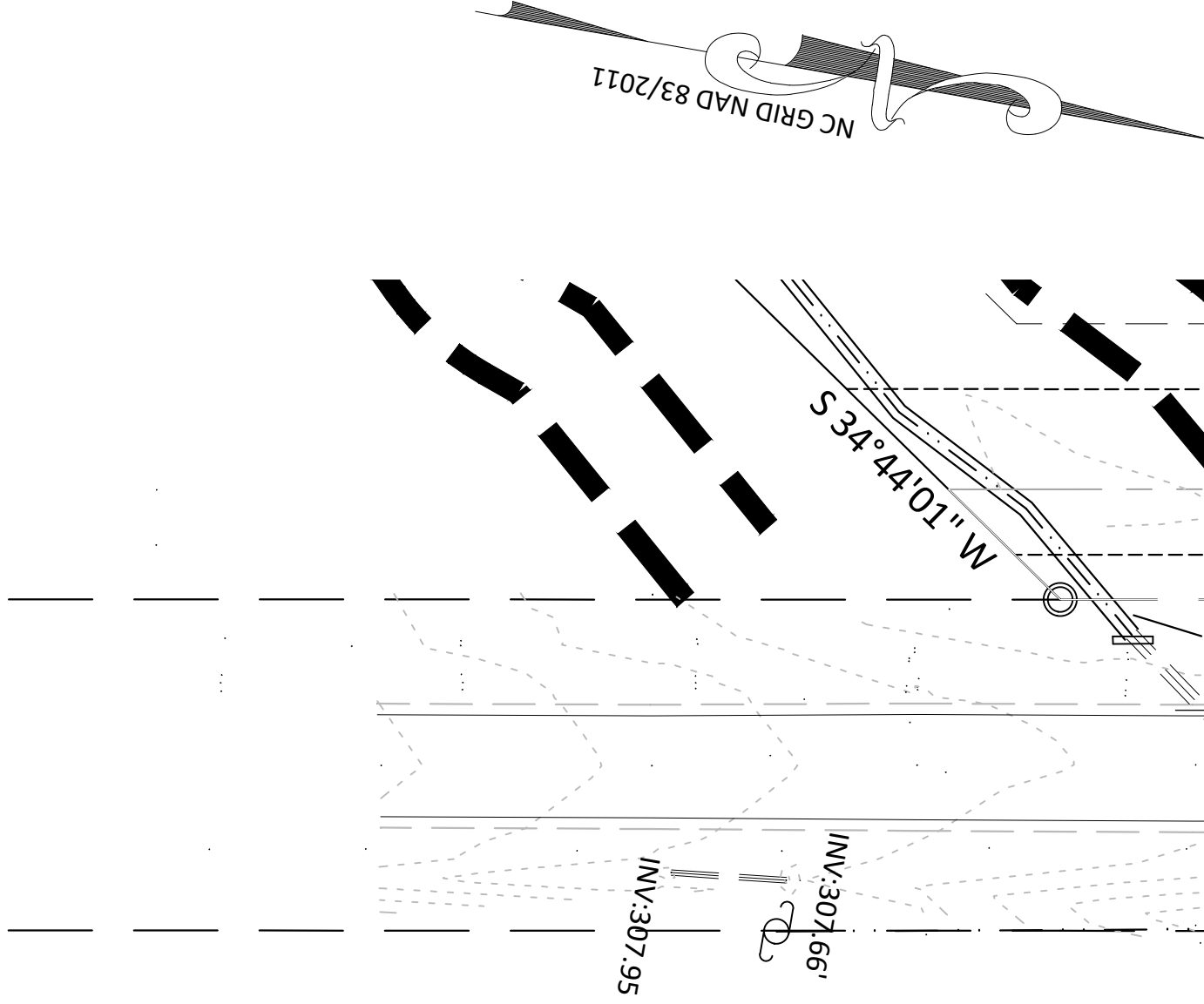
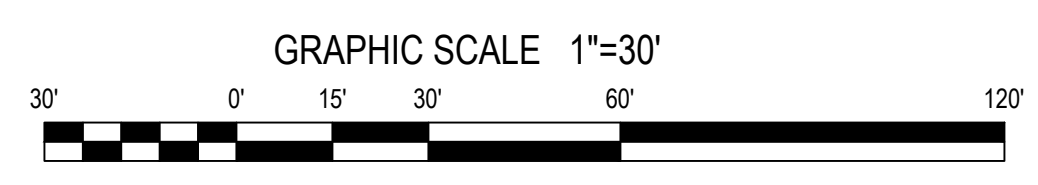
Project No. 23001
Dwg No. C10

Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538





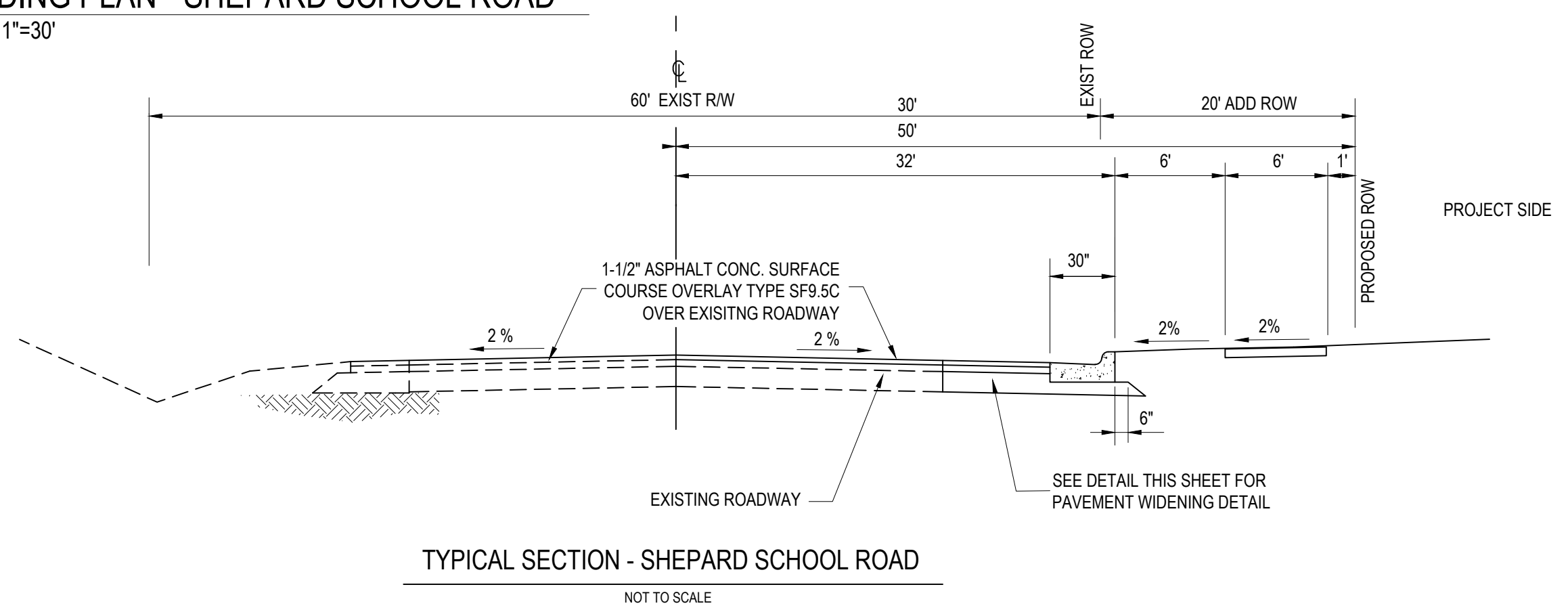
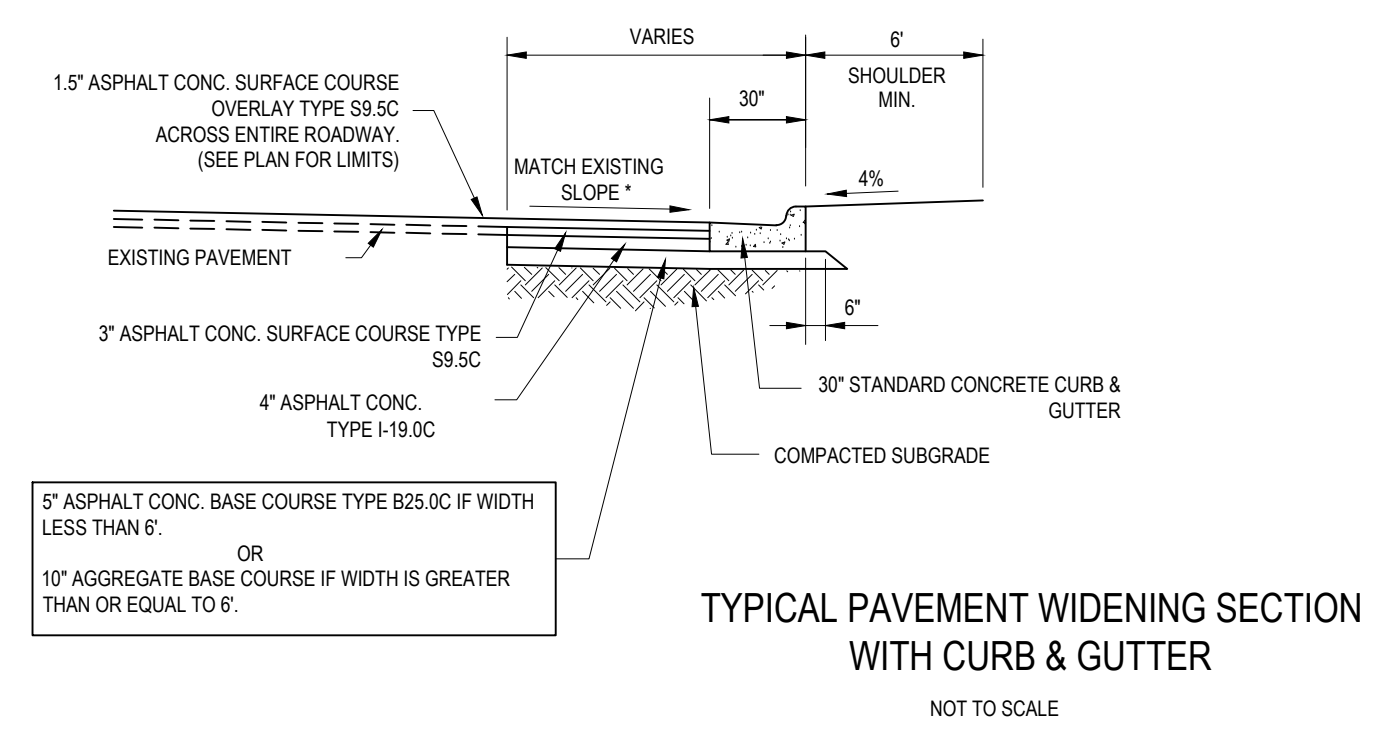
STRIPING PLAN - SHEPARD SCHOOL ROAD
SCALE 1"=30'



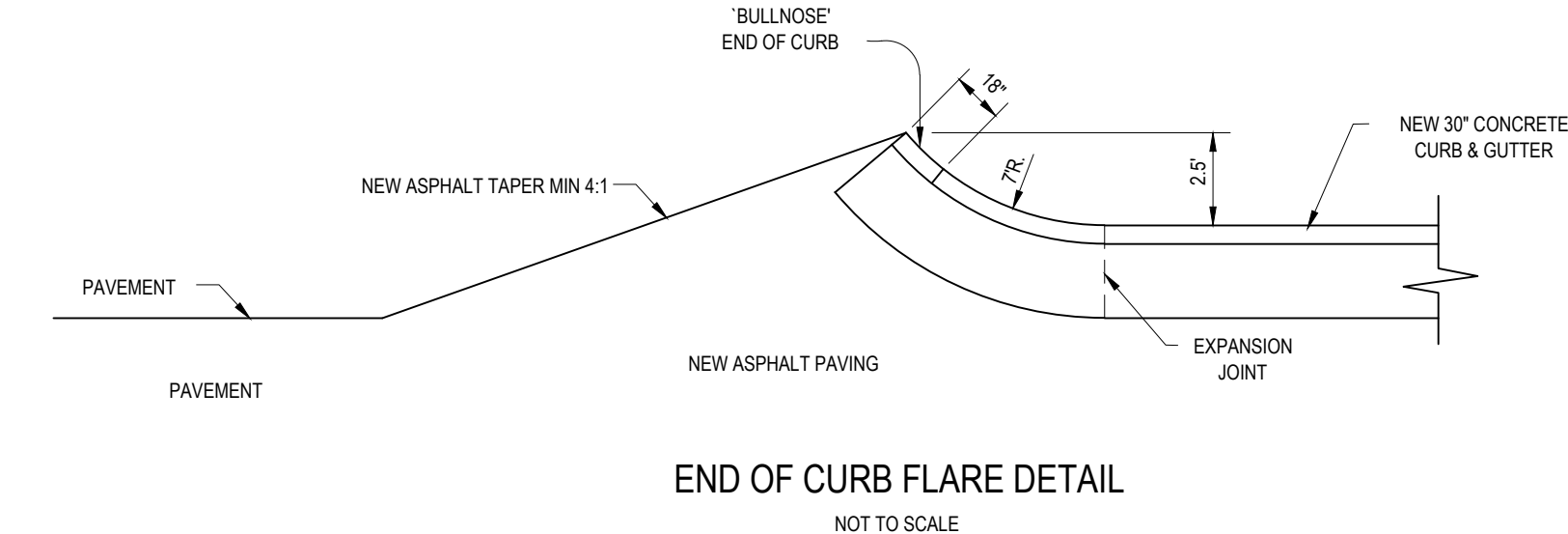
GRADING PLAN - SHEPARD SCHOOL ROAD
SCALE 1"=30'

KEY **KEYED NOTES ROAD WIDENING PLAN**

- 1 30" STANDARD CURB AND GUTTER WITHIN PUBLIC RIGHT-OF-WAY.
- 2 4" THICK CONCRETE 6" WIDE SIDEWALK
- 3 EXISTING EDGE OF PAVEMENT
- 4 TIE INTO EXISTING PAVEMENT - 25' MILL LIMITS WITH A BUTT JOINT
- 5 4" THERMOPLASTIC PAVEMENT MARKING - SEE NCDOT DETAIL 1205.09
- 6 FLARE OUT END OF CURB AND TAPER ASPHALT TO BACK OF CURB. SEE DETAIL.
- 7 1.5" THICK BITUMINOUS PAVEMENT OVERLAY, NCDOT TYPE SF9.5C OVER ENTIRE ROADWAY SEE TYPICAL SECTION.
- 8 EXISTING PAVEMENT EDGE MARKING
- 9 TYPE 3 OBJECT MARKER (OM3-R). SEE NCDOT DETAIL 1264.01
- 10 NCDOT TYPE I STANDARD HANDICAP ACCESS RAMP - SEE DETAIL.
- 11 EDGE OF PAVEMENT - ASPHALT TAPER RATIO MIN 4:1
- 12 NCDOT / TOWN OF ZEBULON 10:70' SIGHT TRIANGLE



- GENERAL NOTES**
1. ALL WORK IN SHEPARD ROAD (SR 2406) SHALL COMPLY WITH NCDOT AND TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
 2. SEE SHEET D1 FOR TRAFFIC CONTROL DURING CONSTRUCTION.
 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS, DETAILS, AND PERMIT REQUIREMENTS.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE SUPPLEMENT TO THE THE MUTCD AND LOCAL INSPECTORS DIRECTION.
 5. ALL PERMANENT PAVEMENT MARKINGS AND STRIPING WITHIN SHEPARD ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE LATEST EDITION OF NCDOT SPECIFICATIONS SECTION 1205. ALL ON-SITE MARKINGS AND STRIPING SHALL BE RETROREFLECTIVE PAINT. ALL DIMENSIONS TO PAVEMENT MARKING LINES ARE TO THE CENTER OF SINGLE LINES OR TO THE CENTER BETWEEN DOUBLE LINES.
 6. THE CONTRACTOR SHALL VERIFY ALL LANE MARKINGS WITH NCDOT PRIOR TO INSTALLATION.



STORM DRAINAGE STRUCTURE SCHEDULE

| Structure Number | Structure Type | STRUCTURE DATA | | | | | | PIPE DATA | | | | REMARKS | |
|------------------|----------------|-------------------|-----------------|----------------|-----------------|----------------|------------|-----------|-----------------|------------|-----------------|---------|-------------------------------------|
| | | Rim/TOC Elevation | Invert In North | Invert In East | Invert In South | Invert In West | Invert Out | To | Pipe Length Out | Pipe Slope | Design Diameter | | Pipe Material |
| A1 | CURB INLET | 318.00 | | | | | 315.43 | A2 | 155.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| A2 | DROP INLET | 318.00 | | 314.66 | | | 314.46 | A3 | 93.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A3 | CURB INLET | 317.50 | 314.00 | | | | 313.78 | A4 | 184.0 | 0.50% | 24 | RCP | NCDOT 840.02 |
| A4 | CURB INLET | 317.50 | 312.86 | | | | 312.66 | A5 | 161.0 | 0.50% | 24 | RCP | NCDOT 840.02 |
| A5 | DROP INLET | 316.60 | 311.85 | | 311.85 | | 311.65 | A6 | 76.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A6 | CURB INLET | 316.80 | | | | 311.27 | 311.07 | A9 | 54.0 | 0.70% | 24 | RCP | NCDOT 840.02 |
| A7 | DROP INLET | 316.60 | | | | 313.60 | 313.60 | A8 | 95.5 | 1.20% | 24 | RCP | NCDOT 840.14 |
| A8 | DROP INLET | 316.60 | | | 312.50 | | 312.30 | A5 | 90.5 | 0.50% | 24 | RCP | NCDOT 840.12 |
| A9 | BMP FES | | | | | | 310.80 | | | | 24 | RCP | Rip Rap Apron L= 12', W=6.8', T=18" |
| A10 | RISER 4'x 4' | 412.50 | | | | | 308.25 | A11 | 50.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A11 | FES | 308.00 | | | | | | | | | | | Rip Rap Apron L= 12', W=6.8', T=18" |
| B1 | CURB INLET | 313.00 | | | | | 309.00 | B2 | 113.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| B2 | CURB INLET | 311.00 | 308.43 | | | | 308.23 | B3 | 116.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| B3 | FES | 307.65 | | | | | | | | | | | Rip Rap Apron L= 12', W=6.8', T=18" |

RIM ELEVATIONS, AS NOTED ABOVE, REFER TO THE HIGHEST POINT OF THE STORM DRAINAGE STRUCTURE TOP.

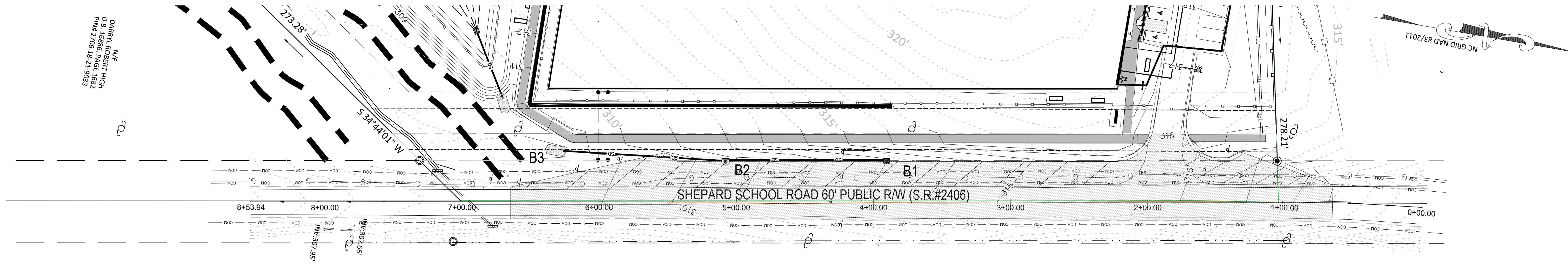
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

| NO | DATE | REVISION/DESCRIPTION | BY |
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Road Widen - Shepard School
StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001
Dwg No. C11



SHEPARD SCHOOL PLAN VIEW

1" = 40'

STORM DRAINAGE STRUCTURE SCHEDULE

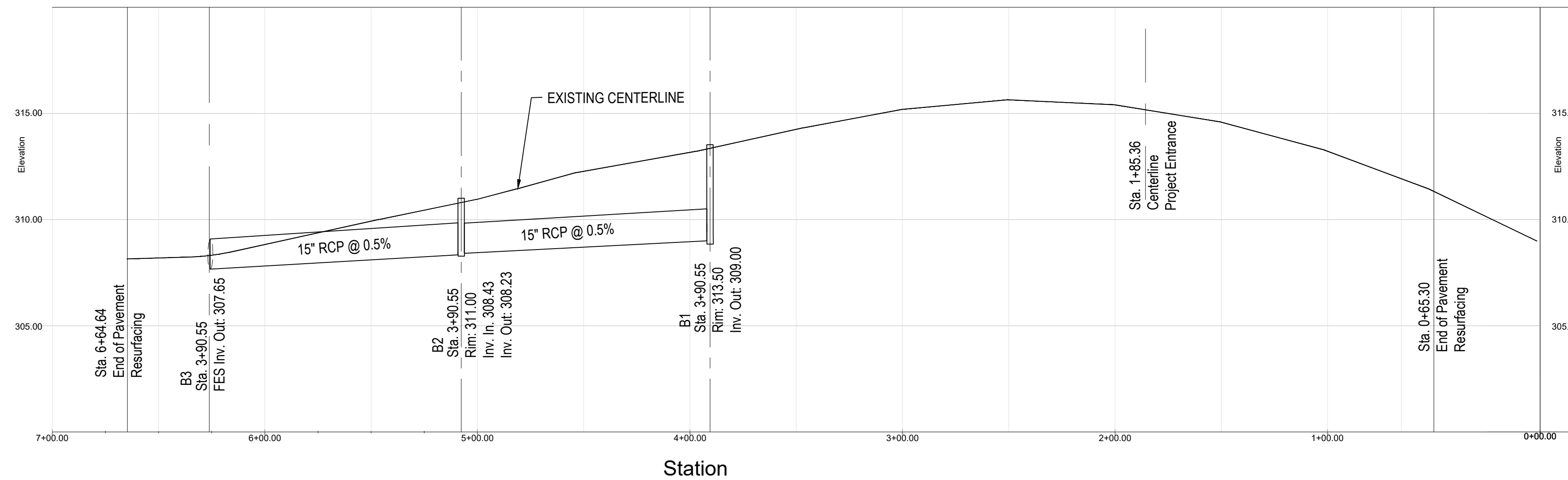
| Structure Number | Structure Type | STRUCTURE DATA | | | | | | PIPE DATA | | | | REMARKS | |
|------------------|----------------|-------------------|-----------------|----------------|-----------------|----------------|------------|-----------|-------------|------------|-----------------|---------|------------------------------------|
| | | Rim/TOC Elevation | Invert In North | Invert In East | Invert In South | Invert In West | Invert Out | To | Pipe Length | Pipe Slope | Design Diameter | | Pipe Material |
| A1 | CURB INLET | 318.00 | | | | | 315.43 | A2 | 155.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| A2 | DROP INLET | 318.00 | | 314.66 | | | 314.46 | A3 | 93.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A3 | CURB INLET | 317.50 | 314.00 | | | | 313.78 | A4 | 184.0 | 0.50% | 24 | RCP | NCDOT 840.02 |
| A4 | CURB INLET | 317.50 | 312.86 | | | | 312.66 | A5 | 161.0 | 0.50% | 24 | RCP | NCDOT 840.02 |
| A5 | DROP INLET | 316.60 | 311.85 | | 311.85 | | 311.65 | A6 | 76.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A6 | CURB INLET | 316.60 | | | | 311.27 | 311.07 | A9 | 54.0 | 0.70% | 24 | RCP | NCDOT 840.02 |
| A7 | DROP INLET | 316.60 | | | | | 313.60 | A8 | 95.5 | 1.20% | 24 | RCP | NCDOT 840.14 |
| A8 | DROP INLET | 316.60 | | 312.50 | | | 312.30 | A5 | 90.5 | 0.50% | 24 | RCP | NCDOT 840.12 |
| A9 | BMP FES | | | | | | 310.80 | | | | 24 | RCP | Rip Rap Apron L=12', W=6.8', T=18" |
| A10 | RISER 4'x4' | 412.50 | | | | | 308.25 | A11 | 50.0 | 0.50% | 24 | RCP | NCDOT 840.14 |
| A11 | FES | 308.00 | | | | | | | | | | | Rip Rap Apron L=12', W=6.8', T=18" |
| B1 | CURB INLET | 313.00 | | | | | 309.00 | B2 | 113.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| B2 | CURB INLET | 311.00 | 308.43 | | | | 308.23 | B3 | 116.0 | 0.50% | 15 | RCP | NCDOT 840.02 |
| B3 | FES | 307.65 | | | | | | | | | | | Rip Rap Apron L=12', W=6.8', T=18" |

RIM ELEVATIONS, AS NOTED ABOVE, REFER TO THE HIGHEST POINT OF THE STORM DRAINAGE STRUCTURE TOP.

GENERAL NOTES

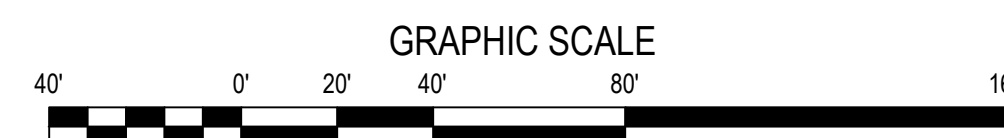
- ALL WORK IN SHEPARD ROAD (SR 2406) SHALL COMPLY WITH NCDOT AND TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
- SEE SHEET D1 FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS, DETAILS, AND PERMIT REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK WITHIN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE SUPPLEMENT TO THE THE MUTCD AND LOCAL INSPECTORS DIRECTION.
- ALL PERMANENT PAVEMENT MARKINGS AND STRIPING WITHIN SHEPARD ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE LATEST EDITION OF NCDOT SPECIFICATIONS SECTION 1205. ALL ONSITE MARKINGS AND STRIPING SHALL BE RETROREFLECTIVE PAINT.
- ALL DIMENSIONS TO PAVEMENT MARKING LINES ARE TO THE CENTER OF SINGLE LINES OR TO THE CENTER BETWEEN DOUBLE LINES.
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SHEPARD SCHOOL ROAD PROFILE

GRAPHIC SCALE
1" = 40' (H)
1" = 4' (V)



Gettle Engineering and Design, PLLC

3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934 Firm License P-2538

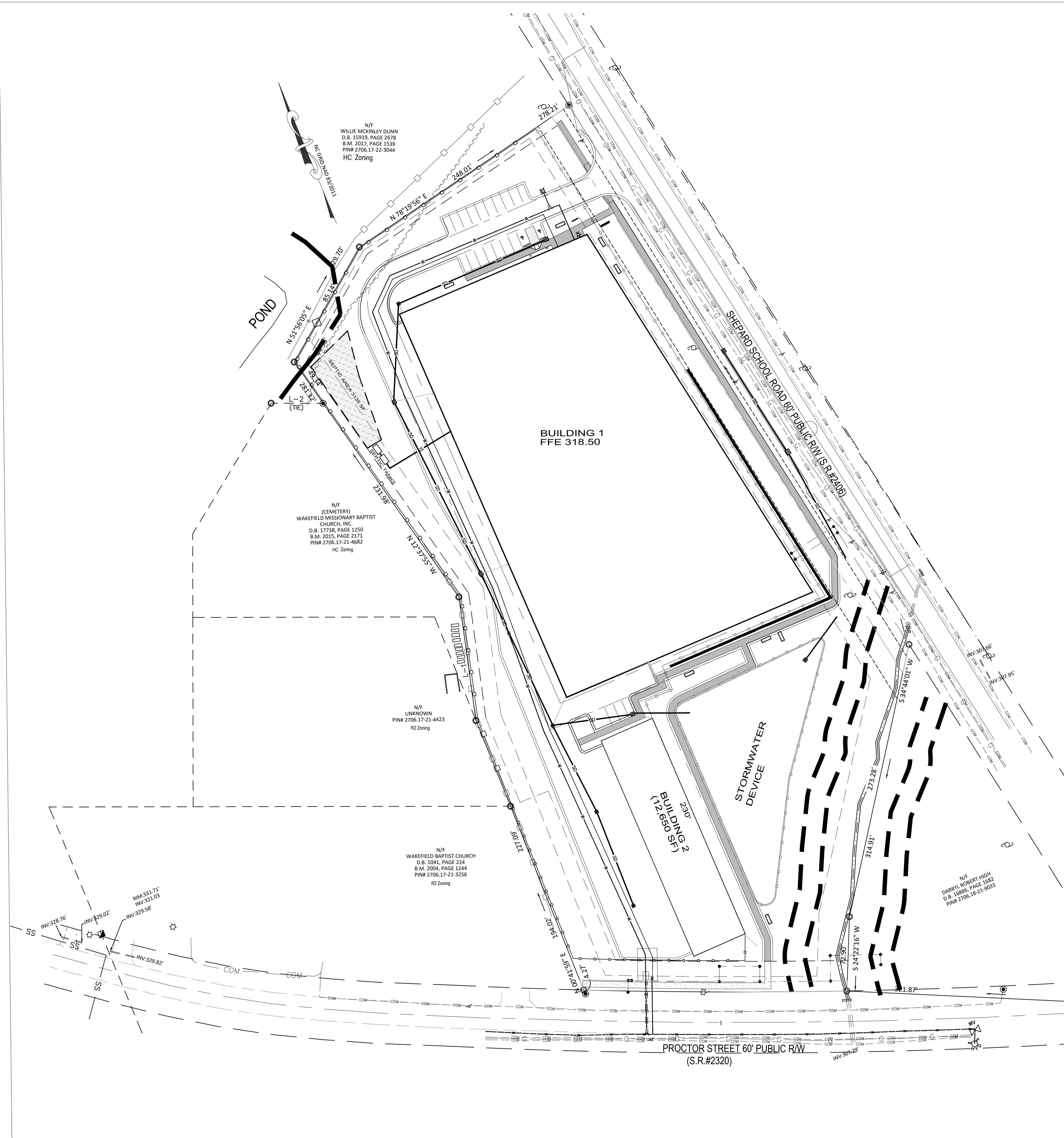


Shepard School - Plan and Profile
StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

Project No. 23001

Dwg No.

C12



UTILITY SPECIFICATIONS

EXISTING CONDITIONS

- INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS. THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THE EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND THE REQUIREMENTS.

PROTECTION AND SAFETY

- PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY.
- CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN SERVICE OR IN PLACE.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, THE N.C. SUPPLEMENT TO THE MUTCD, ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY CONSIDERATIONS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS, VISITORS, AND THE GENERAL PUBLIC.

COMPLIANCE

- ALL WATER SYSTEM AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - REQUIREMENTS OF THE CITY OF RALEIGH, INCLUDING THE LATEST EDITION OF CONSTRUCTION STANDARDS AND SPECIFICATIONS, CONSTRUCTION DETAILS, POLICIES AND PROCEDURES, AND FIELD DIRECTIVES BY THE UTILITY INSPECTOR.
 - REGULATIONS OF NCDDNR DIVISION OF WATER QUALITY, INCLUDING NCAC 21 REGULATIONS AND MINIMUM DESIGN CRITERIA FOR THE PERMITTING OF GRAVITY SEWERS.
 - REGULATIONS OF NCDDNR-PUBLIC WATER SUPPLY, RULES GOVERNING PUBLIC WATER SYSTEMS.
 - STREET RIGHT-OF-WAY ENCROACHMENT PERMIT REQUIREMENTS, AS APPLICABLE.
 - OSHA REQUIREMENTS RELATED TO SAFETY.
 - REQUIREMENTS OF THE N.C. PLUMBING CODE.

NOTIFICATIONS

- NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING WATERLINE OR SANITARY SEWER WORK. THE ENGINEER MUST OBSERVE CONNECTIONS, INSTALLATION, BACKFILLING, AND TESTING WORK, IN ORDER TO PROVIDE NECESSARY PROJECT CERTIFICATIONS AND CLOSE-OUT DOCUMENTS.
- NOTIFY THE APPLICABLE UTILITY AND ROADWAY AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING UTILITY WORK.
- NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING TRENCHING OR BACKFILLING WORK.

TRENCHING AND BACKFILLING

- WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH #67 STONE BEDDING.
- WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF UNSUITABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- BACKFILL SOIL SHALL BE SUITABLE MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- BACKFILL SOIL SHALL BE PLACED IN LOOSE LIFTS OF 8 INCH MAXIMUM THICKNESS AND COMPACTED TO 98% OF THE SOIL'S MAXIMUM DRY DENSITY, WITHOUT DAMAGING OR DISPLACING PIPE.
- INSTALL MARKING TAPE OR TRACER WIRE OVER UTILITY LINES AS REQUIRED BY THE LOCAL UTILITY AUTHORITY.

STORAGE AND HANDLING

- PIPING, FITTINGS, GASKETS, AND OTHER MATERIALS SHALL BE KEPT CLEAN WHILE BEING STORED AND DURING CONSTRUCTION ACTIVITIES. PIPE BUNDLES SHALL BE STORED ON FLAT SURFACES WITH UNIFORM SUPPORT, AND PROTECTED FROM PROLONGED EXPOSURE TO SUNLIGHT WITH A COVERING ALLOWING AIR FLOW UNDERNEATH. GASKETS SHALL NOT BE EXPOSED TO OIL, GREASE, OZONE, EXCESSIVE HEAT OR DIRECT SUNLIGHT. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND HANDLING OF ALL MATERIALS.

WATER SYSTEM

- PROVIDE ALL WATER SYSTEM MATERIALS IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS.
- INSTALL WATERLINES TO PROVIDE 36" COVER TO FINISHED GRADE, UNLESS OTHERWISE SHOWN OR APPROVED BY THE ENGINEER AND INSPECTOR.
- ALL WATERLINE BENDS, CROSSES, TEES, AND ENDS SHALL BE RESTRAINED USING CONCRETE BLOCKING OR A MECHANICAL JOINT WEDGE-ACTION RESTRAINT SYSTEM RATED FOR 350 PSI.
- DO NOT OPERATE WATER SYSTEM VALVES WITHOUT PERMISSION OF THE WATER AUTHORITY.
- CONTRACTOR SHALL COORDINATE EXACT FIRE HYDRANT, WATER METER, AND BACKFLOW PREVENTER LOCATIONS WITH WATER AUTHORITY INSPECTOR PRIOR TO INSTALLATION.

BACKFLOW PREVENTION

- BACKFLOW PREVENTER ASSEMBLIES AND ENCLOSURES SHALL CONFORM TO ALL LOCAL WATER AUTHORITY REQUIREMENTS, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE INITIAL TESTING AND CERTIFICATIONS AS REQUIRED FOR ACCEPTANCE.

FIRE PROTECTION

- WATER MAINS SHALL BE INSTALLED AND MADE OPERATIONAL AS SOON AS PRACTICAL TO PROVIDE ACTIVE FIRE HYDRANT SERVICE DURING CONSTRUCTION.
- COORDINATE TYPE AND LOCATION OF HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND OTHER FIRE PROTECTION SYSTEM COMPONENTS WITH LOCAL FIRE CODE OFFICIAL PRIOR TO INSTALLATION.

UTILITY SPECIFICATIONS (cont.)

SANITARY SEWER

- SANITARY SEWER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR EPOXY LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER AWWA C111.
- SANITARY SEWER MAIN PIPING SHALL BE PVC PIPE PER ASTM D3034, SDR 35. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER ASTM F477.
- SANITARY SEWER MAINS SHALL BE INSTALLED WITH 36 INCHES MINIMUM COVER TO FINISHED GRADE, EXCEPT AS OTHERWISE SPECIFIED.
- SANITARY SEWER SERVICE LINES AND CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE N.C. PLUMBING CODE, AND HAVE 24 INCHES MINIMUM COVER TO FINISHED GRADE. SERVICE LINES SHALL MAINTAIN MAXIMUM SERVICE DEPTH USING A 2:1% SLOPE UNLESS OTHERWISE SPECIFIED.
- SERVICE PIPE AND FITTINGS WITHIN PUBLIC STREET RIGHTS-OF-WAY SHALL BE CAST IRON WITH GASKETED JOINTS, AND IN OTHER AREAS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS. EXCEPT ALL CLEANOUTS SHALL BE FITTED WITH THREADED BRONZE PLUGS.
- SERVICE LINE CLEANOUTS IN VEHICULAR AREAS SHALL BE TRAFFIC BEARING CLEANOUTS.

CONNECTIONS

- FOR CONNECTIONS TO EXISTING UTILITY AND DRAINAGE LINES, CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE AND MATERIAL, AND PROVIDE APPROPRIATE CONNECTION FITTINGS.
- ANY CONNECTION TO EXISTING UTILITIES, OR ANY UTILITY SERVICE INTERRUPTION, SHALL BE FIRST COORDINATED WITH THE GOVERNING UTILITY AUTHORITY, AND PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THAT AUTHORITY.

TESTING AND ACCEPTANCE

- THE GEOTECHNICAL ENGINEER SHALL PROVIDE MATERIAL AND DENSITY TESTING DURING THE COURSE OF THE WORK. PRIOR TO PLACEMENT OF ANY BASE OR PAVEMENT, CONTRACTOR SHALL PROVIDE PROOF-ROLLINGS OF ALL TRENCH AREAS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- PRIOR TO ANY SANITARY SEWER OR WATER SYSTEM IMPROVEMENTS BEING PLACED INTO SERVICE:
 - CONTRACTOR SHALL SUCCESSFULLY TEST ALL WATER MAINS FOR WATER LEAKAGE AND WATER QUALITY IN ACCORDANCE WITH CITY OF RALEIGH AND NCDDNR REQUIREMENTS.
 - CONTRACTOR SHALL SUCCESSFULLY TEST ALL SANITARY SEWER MAINS FOR SELECTION AND LEAKAGE, AND TEST ALL SANITARY MANHOLES FOR LEAKAGE, IN ACCORDANCE WITH CITY OF RALEIGH AND NCDDNR REQUIREMENTS.
 - CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF INSTALLED SANITARY SEWER MAINS AND PROVIDE DOCUMENTATION PER LOCAL REQUIREMENTS.
 - CONTRACTOR SHALL PROVIDE TO ENGINEER A SET OF MARKED UP DRAWINGS SHOWING UTILITY CHANGES, DIMENSIONAL ADJUSTMENTS, DISCOVERED SUBSURFACE UTILITIES, AND OTHER AS-BUILT INFORMATION.
 - CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL TESTING RESULTS TO ENGINEER.
 - ALL IMPROVEMENTS SHALL PASS FINAL INSPECTION BY ENGINEER AND THE UTILITY AUTHORITY.
 - ENGINEER SHALL SUBMIT ALL CERTIFICATIONS AND OTHER CLOSE-OUT DOCUMENTS TO APPLICABLE LOCAL AND STATE AUTHORITIES.

OTHER

- CONTRACTOR SHALL PROVIDE PRIMARY COORDINATION WITH UTILITY SERVICE PROVIDERS FOR BUILDING UTILITY SERVICES. THIS WORK SHALL INCLUDE MARKING APPLICATIONS FOR SERVICE, COORDINATING AND SCHEDULING WORK BY OTHERS, VERIFYING ROUTINGS AND EQUIPMENT LOCATIONS, FURNISHING AND INSTALLING CONDUIT AND PADS, AND RELATED WORK AS NEEDED.
- CONTRACTOR SHALL PROVIDE PROPER RESTORATION AND CLEAN-UP OF ALL AREAS DISTURBED BY UTILITY CONSTRUCTION.

CITY OF RALEIGH UTILITY NOTES

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: COR PLUD HANDBOOK, CURRENT EDITION)
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 10' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SEWER SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPLUD DETAILS W-41 & S-49).
- ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS. 4' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER AND SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPLUD HANDBOOK PROCEDURE.
- INSTALL 2" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. (NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW AND PRESSURE).
- INSTALL 4" PVC SEWER SERVICES AT 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE AND SPACED EVERY 75' LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDDWP, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS RESPECTIVELY PRIOR TO CONSTRUCTION.
- NCDDOT /RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS AND SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS AND INSTALLATION SPECIFICATIONS SHALL BE PROVIDED BY THE CORPLUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919)86-2334 OR TIMOTHY.BEASLEY@RALEIGH.GOV FOR MORE INFORMATION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST - THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 212-9233 OR JOANIE.HARTLEY@RALEIGH.GOV FOR MORE INFORMATION.

NOTES

- SEE SHEET C7 FOR STORM DRAIN SCHEDULE.

SITE PERMITTING APPROVAL

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

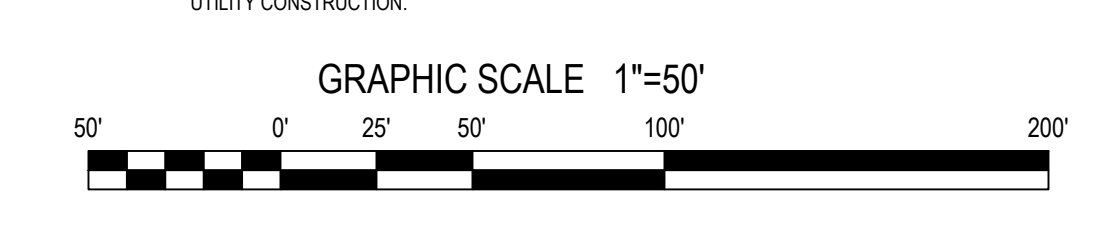
The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractor are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization does not constitute a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all local, State, and Federal Rules and Regulations.

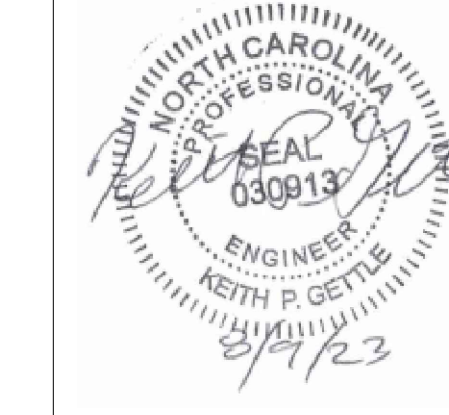
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be relied upon if issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
City of Raleigh Review Officer _____



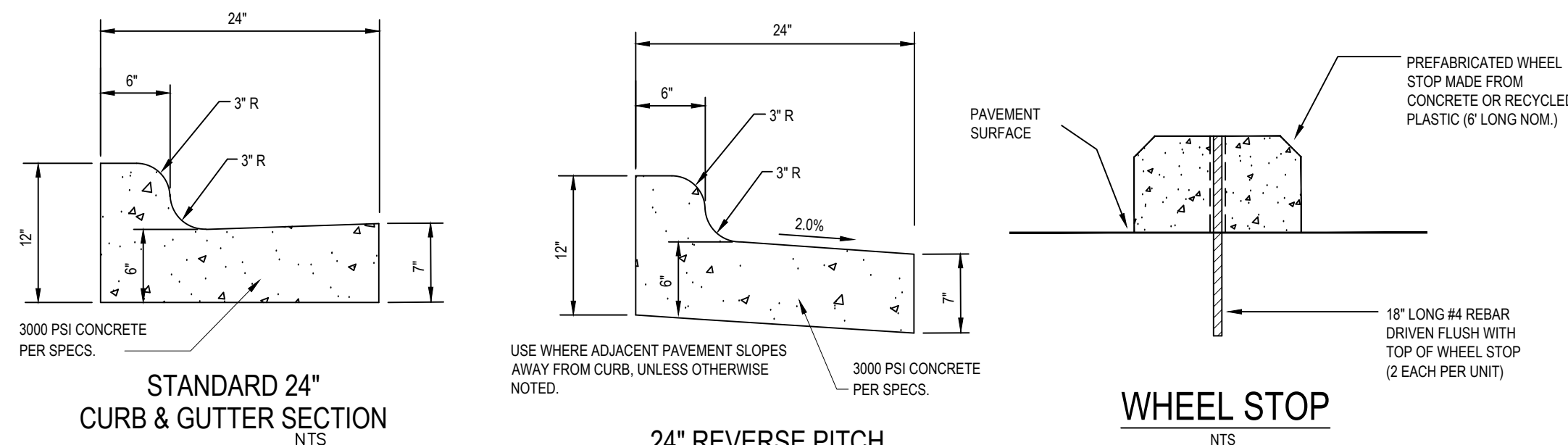
Gettle Engineering and Design, PLLC
3616 Waxwing Court,
Wake Forest, North Carolina 27587
(919) 210-3934
Firm License P-2538

| No. | Date | By | Comment | Revision/Description |
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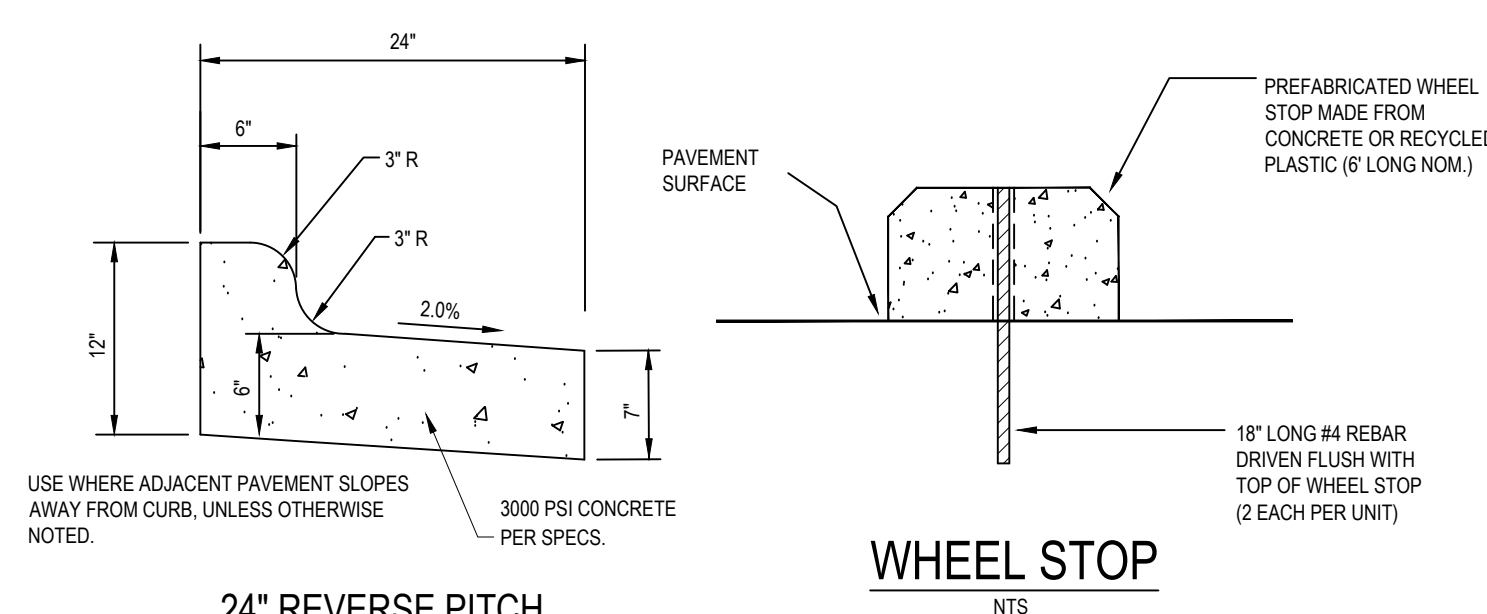


Utility Plan - Overall
StorageMax
901 Proctor Street
Zebulon, Wake County, North Carolina

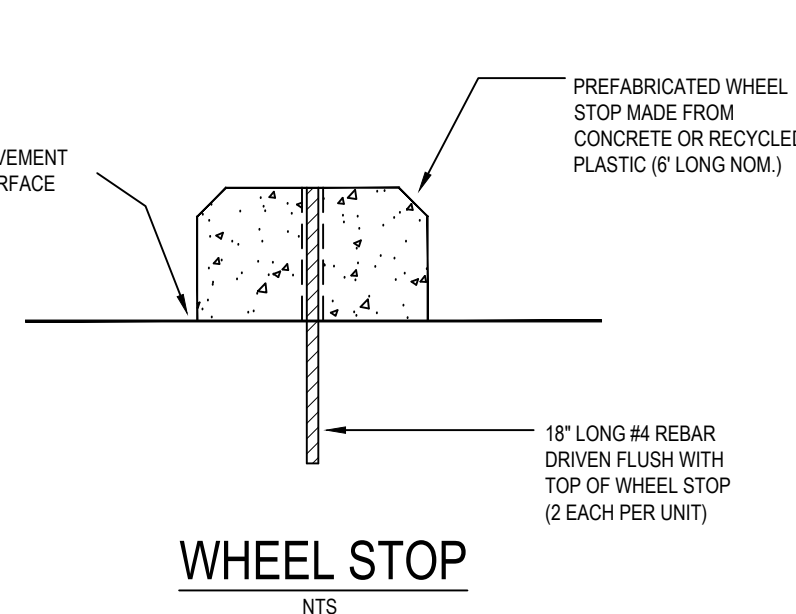
Project No. 23001
Dwg No. **C8**



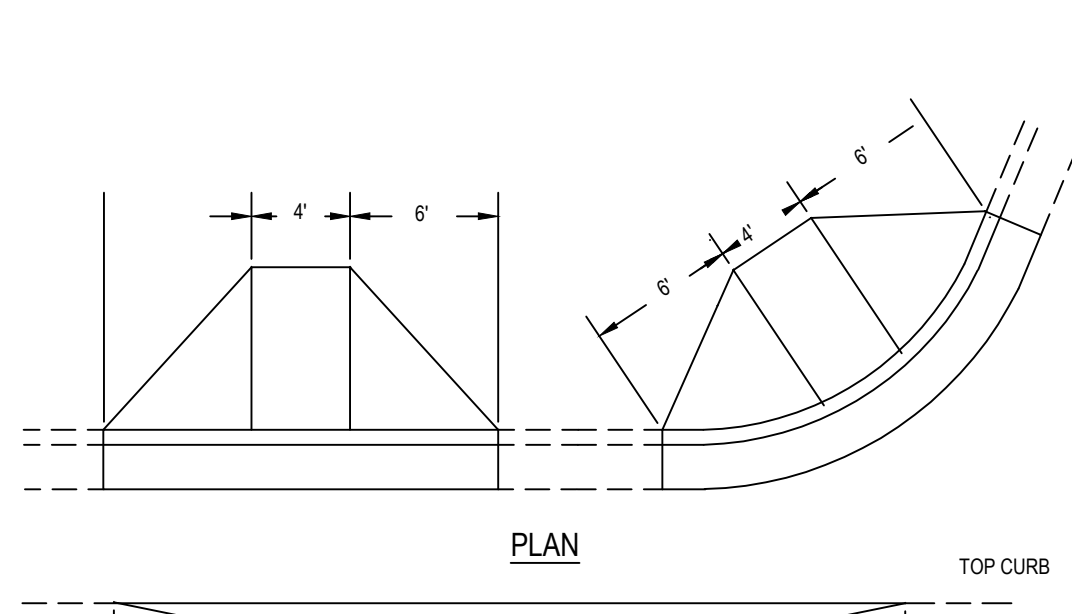
STANDARD 24" CURB & GUTTER SECTION NTS



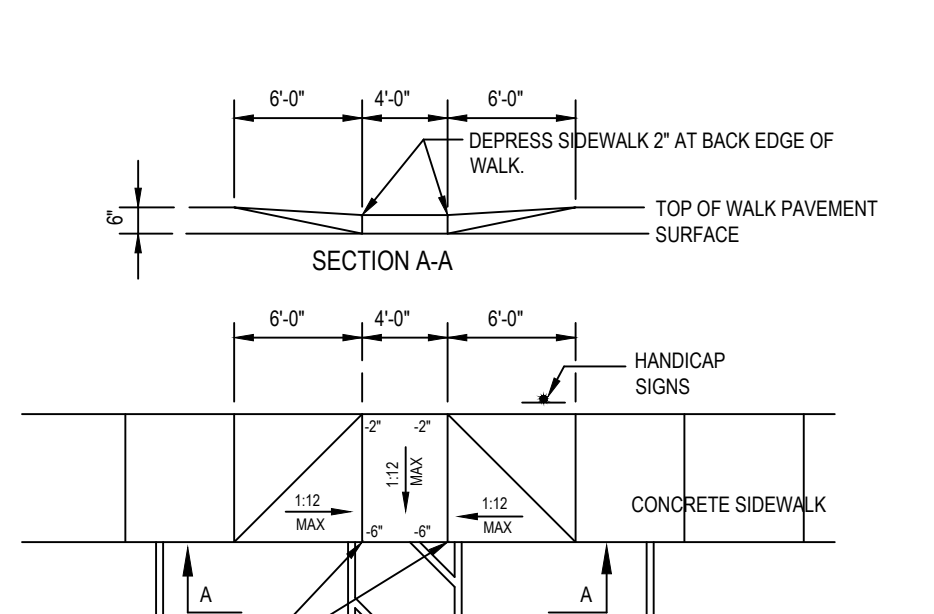
24" REVERSE PITCH CURB & GUTTER SECTION NTS



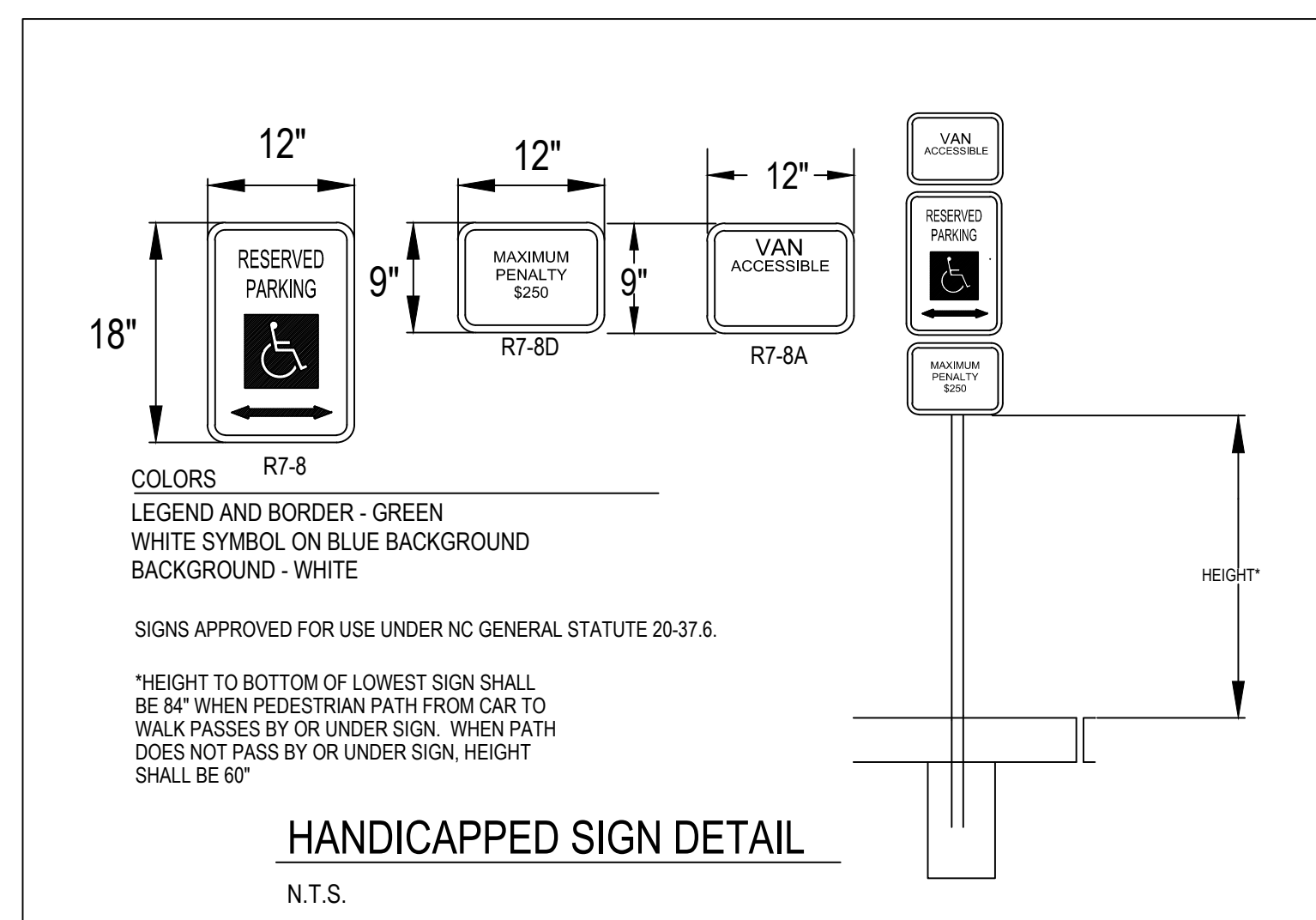
WHEEL STOP NTS



HANDICAP RAMP CURB CUT NTS



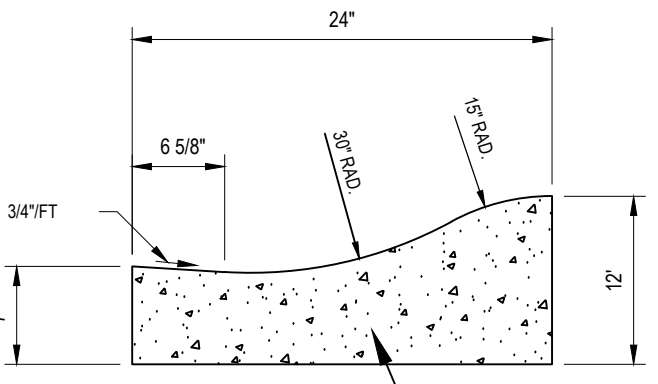
HANDICAP PARKING AND RAMP NTS



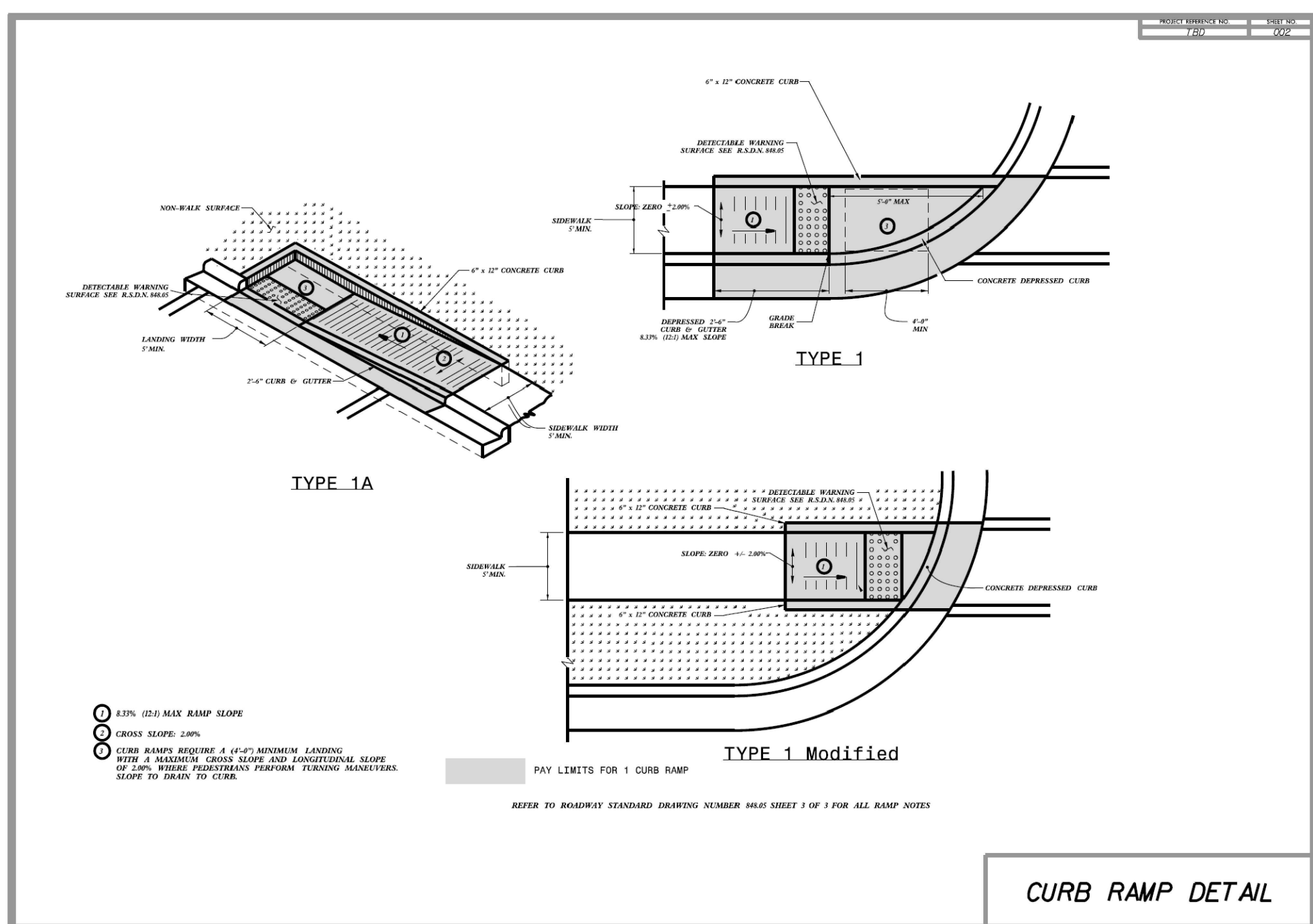
HANDICAPPED SIGN DETAIL N.T.S.

CURB AND GUTTER

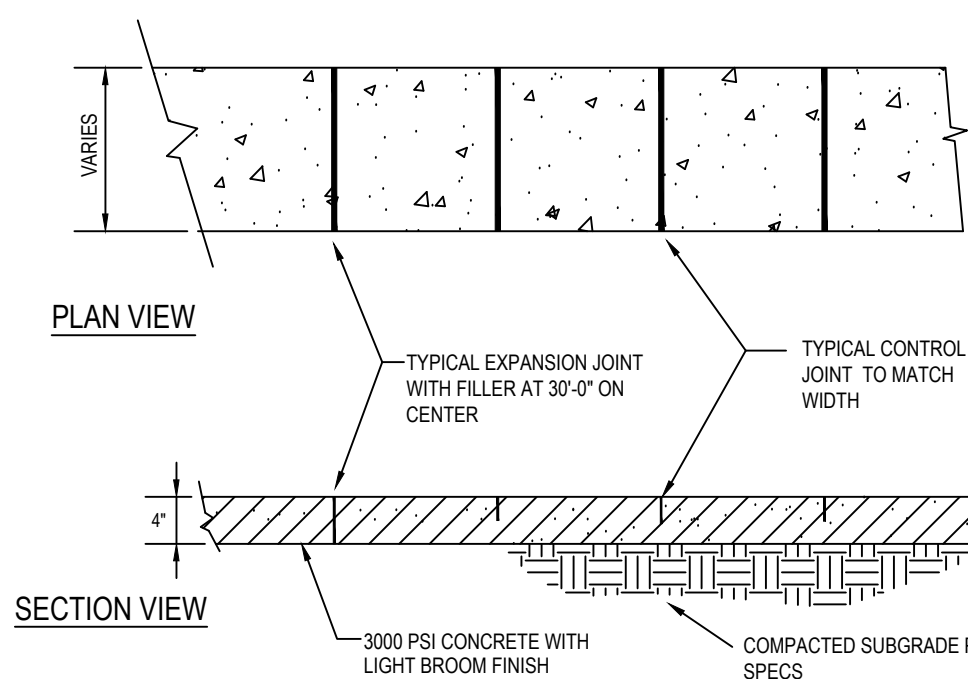
- NOTES:
- 10' MAXIMUM BETWEEN CONSTRUCTION JOINTS.
 - 15' MAXIMUM BETWEEN CONSTRUCTION JOINTS TO SCALE ON MACHINE POURS.
 - 1/2" EXPANSION JOINT EVERY 90'.
 - 3000 PSI CONCRETE MINIMUM 4" SLUMP MAXIMUM.
 - LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS AND STRUCTURES.
 - ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 946-01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF NCDOT'S STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
 - ABC STONE REQUIRED UNDER ALL CURB & GUTTER.



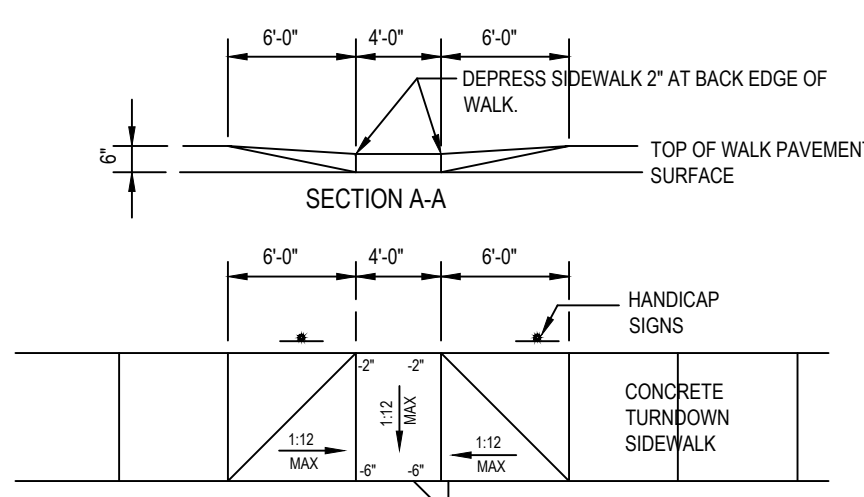
24" ROLLED CURB SECTION NTS



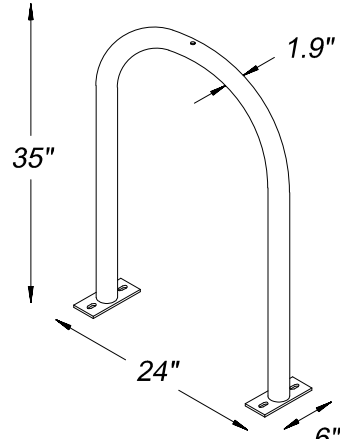
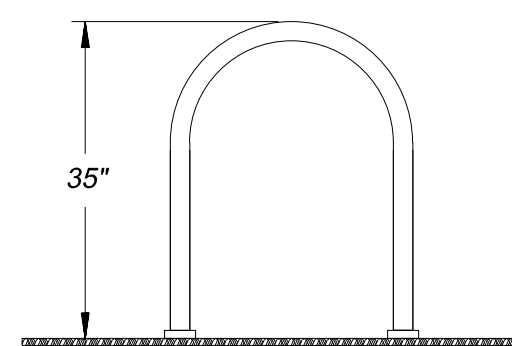
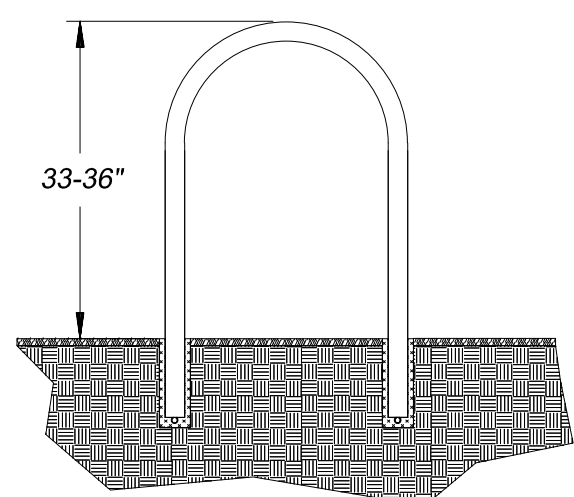
CURB RAMP DETAIL



CONCRETE WALK NTS



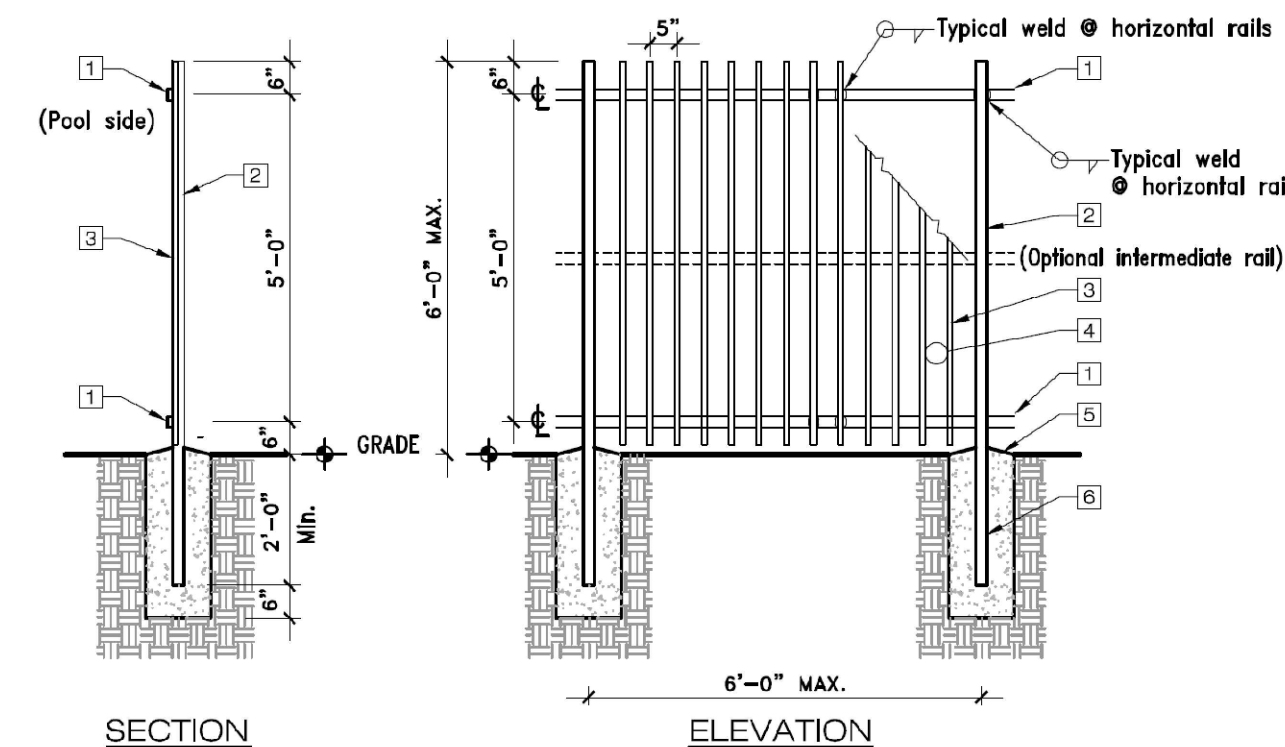
IN-GROUND MOUNT SURFACE MOUNT



STANDARD BIKE RACK NTS

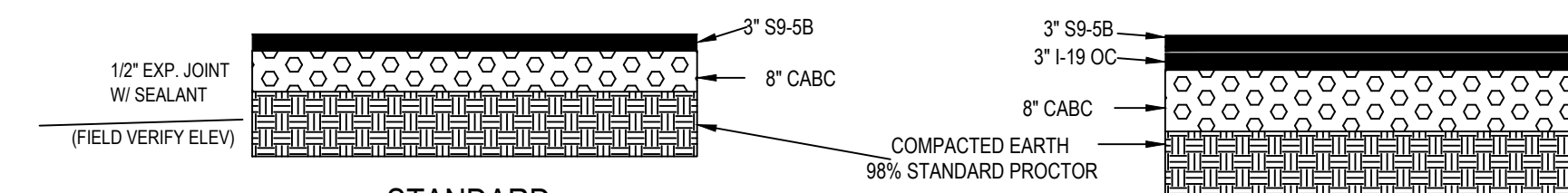
BIKE RACK INSTALLATION:

- SURFACE MOUNT - WHEN INSTALLED ON CONCRETE SURFACE, USE 3/8" ANCHORS TO PLATE MOUNT. SHIM AS NECESSARY TO ENSURE VERTICAL PLACEMENT.
- IN-GROUND MOUNT - WHEN INSTALLED ON PAVERS OR OTHER NON-STABLE SURFACES, EMBED INTO BASE. CORE HOLES NO LESS THAN 3" IN DIAMETER AND 10" DEEP.

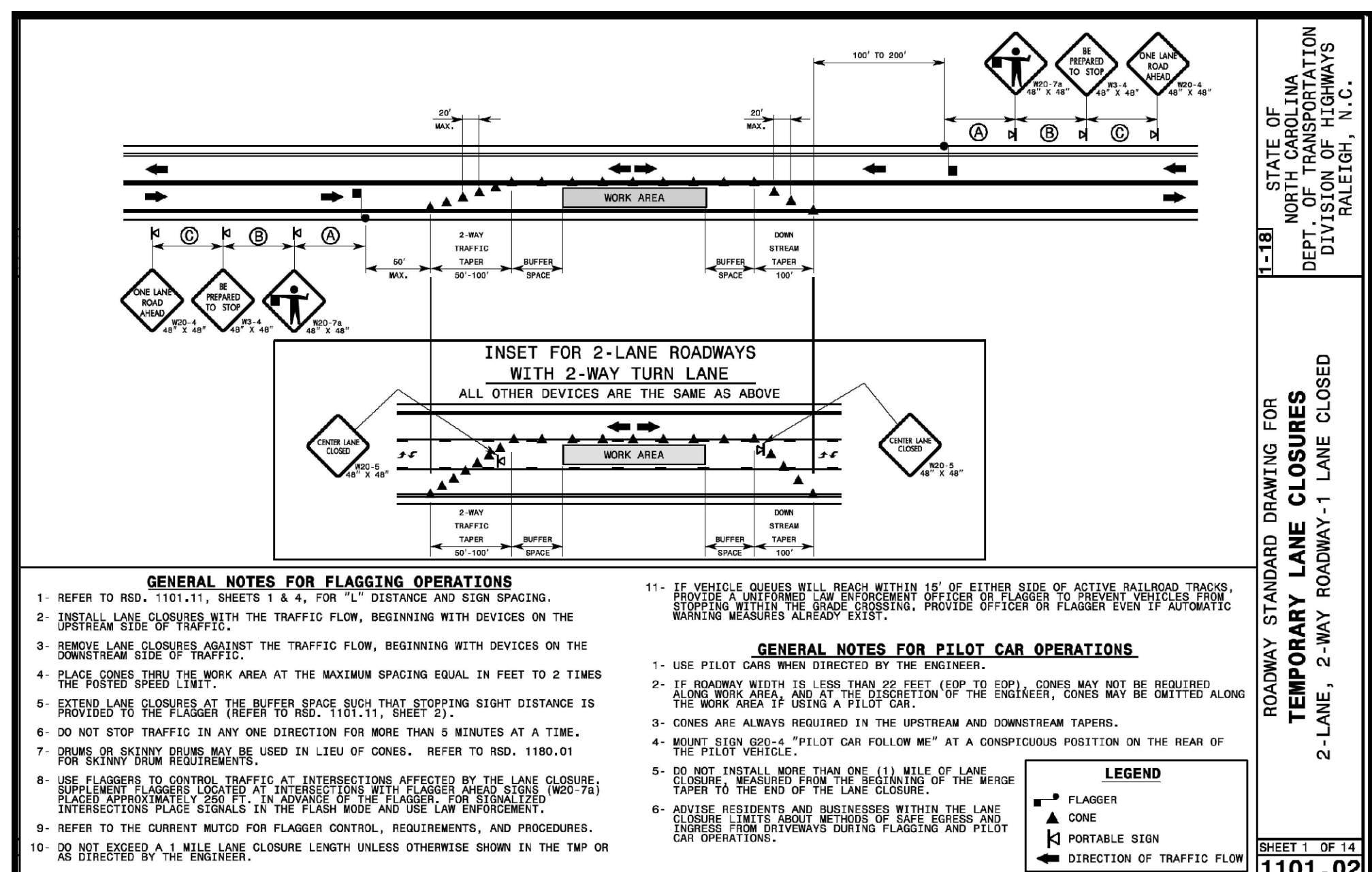


FENCE DETAIL TYPE 1

- Materials allowed:
ALUMINUM --- alloy 6063-T6 OR alloy 6061-T6.
STEEL --- square tubes: ASTM A500 OR A501.
- Horizontal rails: Minimum 2"x1"x14 ga., welded to posts at all 4 sides --OR-- pipe 1-1/2" diameter.
 - Posts: Minimum 2"x2"x14 ga., embedded in concrete footing --OR-- pipe 2-1/4" diameter.
 - Pickets: Minimum 1"x1"x 0.065" wall thickness, welded to rails at all 4 sides --OR-- pipe 2-1/4" diameter.
 - Concrete footing at each post-- minimum diameter of 10", with a minimum depth of 30" from finish grade. Top surface of footing shall be sloped 1" to shed water. Minimum post embedment shall be 24 inches. Concrete strength shall be not less than 2500 psi at 28 days.
 - Protect aluminum embedded in concrete with a coat of bituminous paint.



PAVEMENT DETAIL NTS



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N. C.

ROADWAY STANDARD DRAWING FOR
 TEMPORARY LANE CLOSURES
 2-LANE, 2-WAY ROADWAY-1 LANE CLOSED

SHEET 1 OF 14
1101.02

- GENERAL NOTES FOR FLAGGING OPERATIONS**
- REFER TO REG. 1101.11, SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
 - INITIAL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
 - REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
 - PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
 - EXTEND LANE CLOSURES TO THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO REG. 1101.11, SHEET 5).
 - DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 6 MINUTES AT A TIME.
 - CONES OR SKIPPY BEAMS MAY BE USED IN LIEU OF CONES. REFER TO REG. 1180.01 FOR SKIPPY BEAM REQUIREMENTS.
 - USE FLASERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLASERS LOCATED AT INTERSECTIONS WITH FLASERS AHEAD STOPS (MCD-72) INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND USE LAW ENFORCEMENT.
 - REFER TO THE CURRENT MUTCD FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
 - DO NOT EXCEED A 1/2 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TWP OR AS DIRECTED BY THE ENGINEER.
- GENERAL NOTES FOR PILOT CAR OPERATIONS**
- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
 - IF NEARBY TRAFFIC IS LESS THAN 20 FEET BEHIND TO (DOWN) CONES MAY NOT BE REQUIRED ALONG WORK AREA AND 15' MIN. DISTANCE OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA OF BEING A PILOT CAR.
 - CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
 - BOUNT ELEV 605-A "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
 - DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE UNLESS OTHERWISE SHOWN IN THE TWP OR AS DIRECTED BY THE ENGINEER.
 - ADVISE REGISTRARS AND BUSINESSES WITHIN THE LANE CLOSURE AREA TO ARRANGE FOR DELIVERY OF GOODS AND SERVICES DURING FLAGGING AND PILOT CAR OPERATIONS.
- LEGEND**
- FLASER
 - CONE
 - PORTABLE SIGN
 - DIRECTION OF TRAFFIC FLOW

Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934 Firm License P-2538

| NO. | DATE | COMMENT | BY | REVISION DESCRIPTION |
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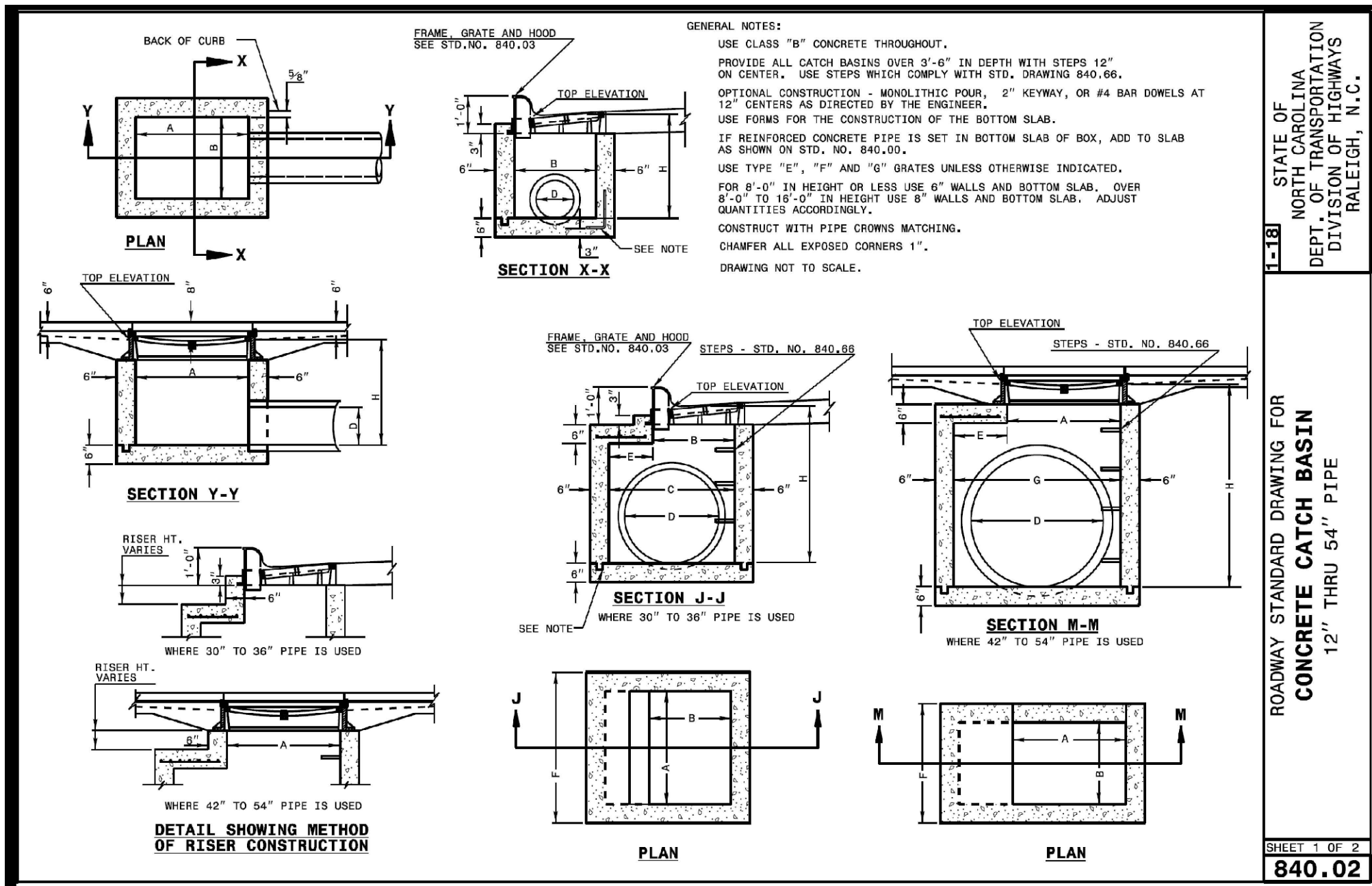


Standard Site Details
 StorageMax
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001

Dwg No.

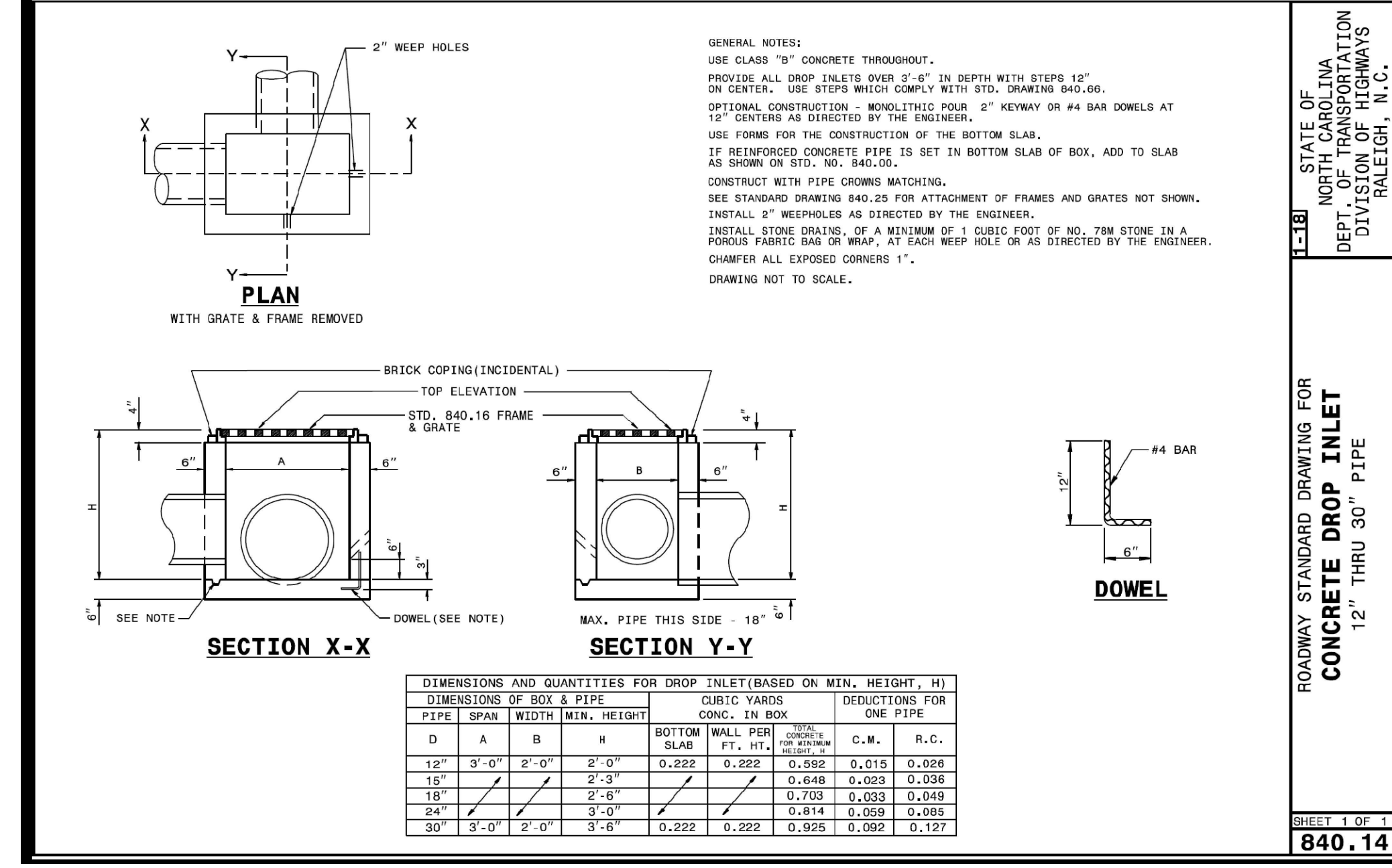
D1



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE

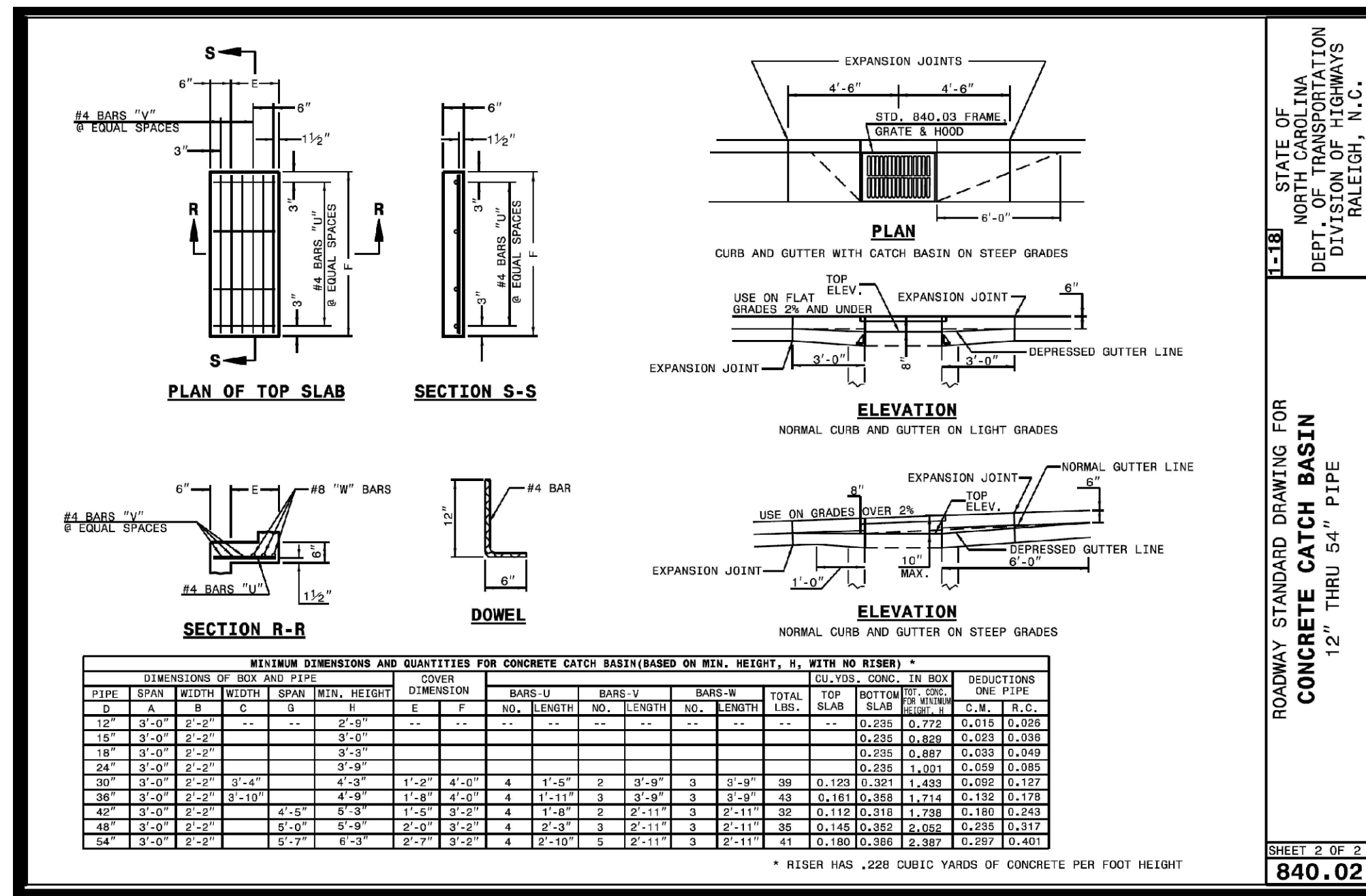
SHEET 1 OF 2
840.02



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE DROP INLET
 12" THRU 30" PIPE

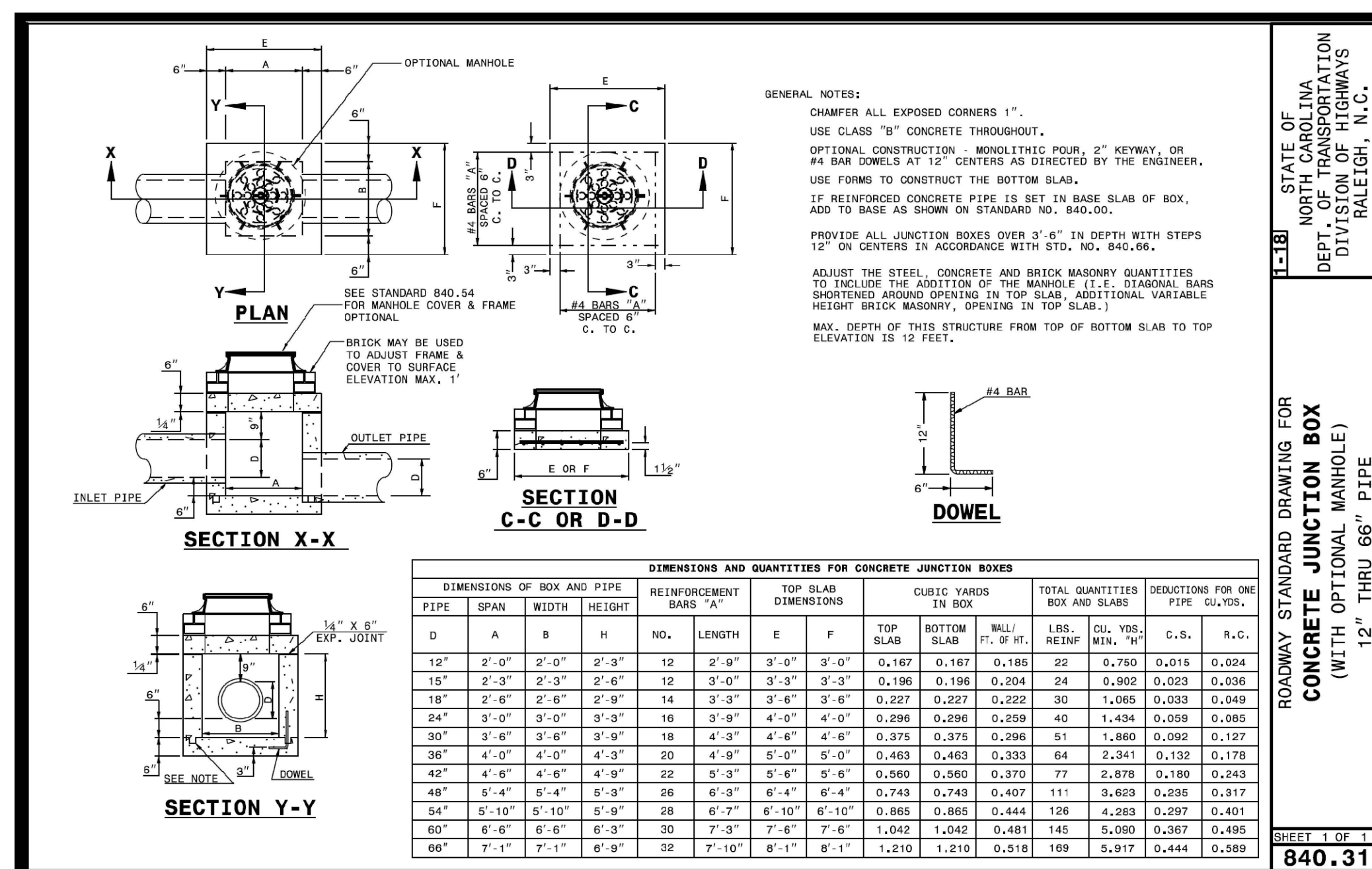
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STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE CATCH BASIN
 12" THRU 54" PIPE

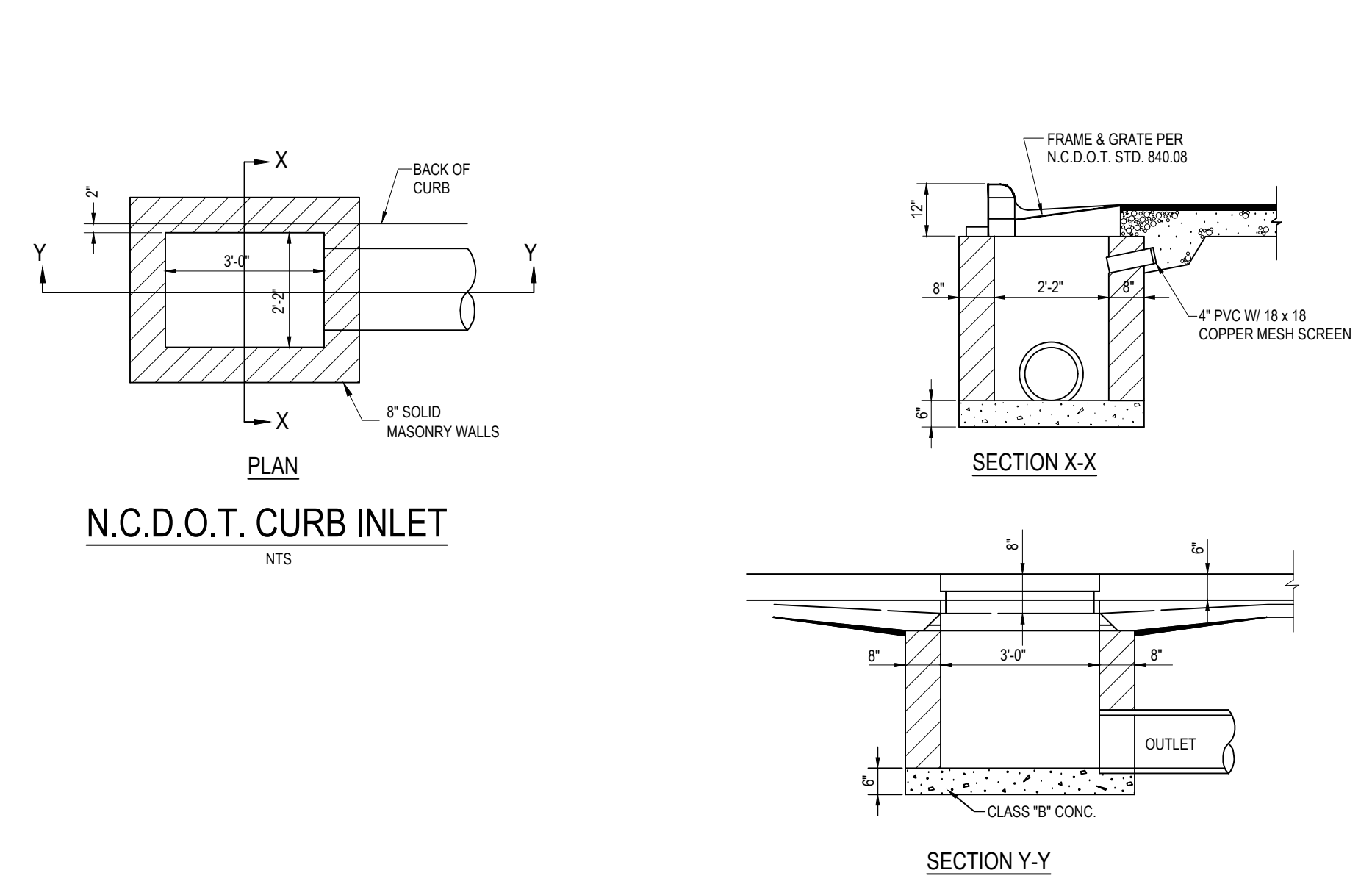
SHEET 2 OF 2
840.02



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
CONCRETE JUNCTION BOX
 (WITH OPTIONAL MANHOLE)
 12" THRU 66" PIPE

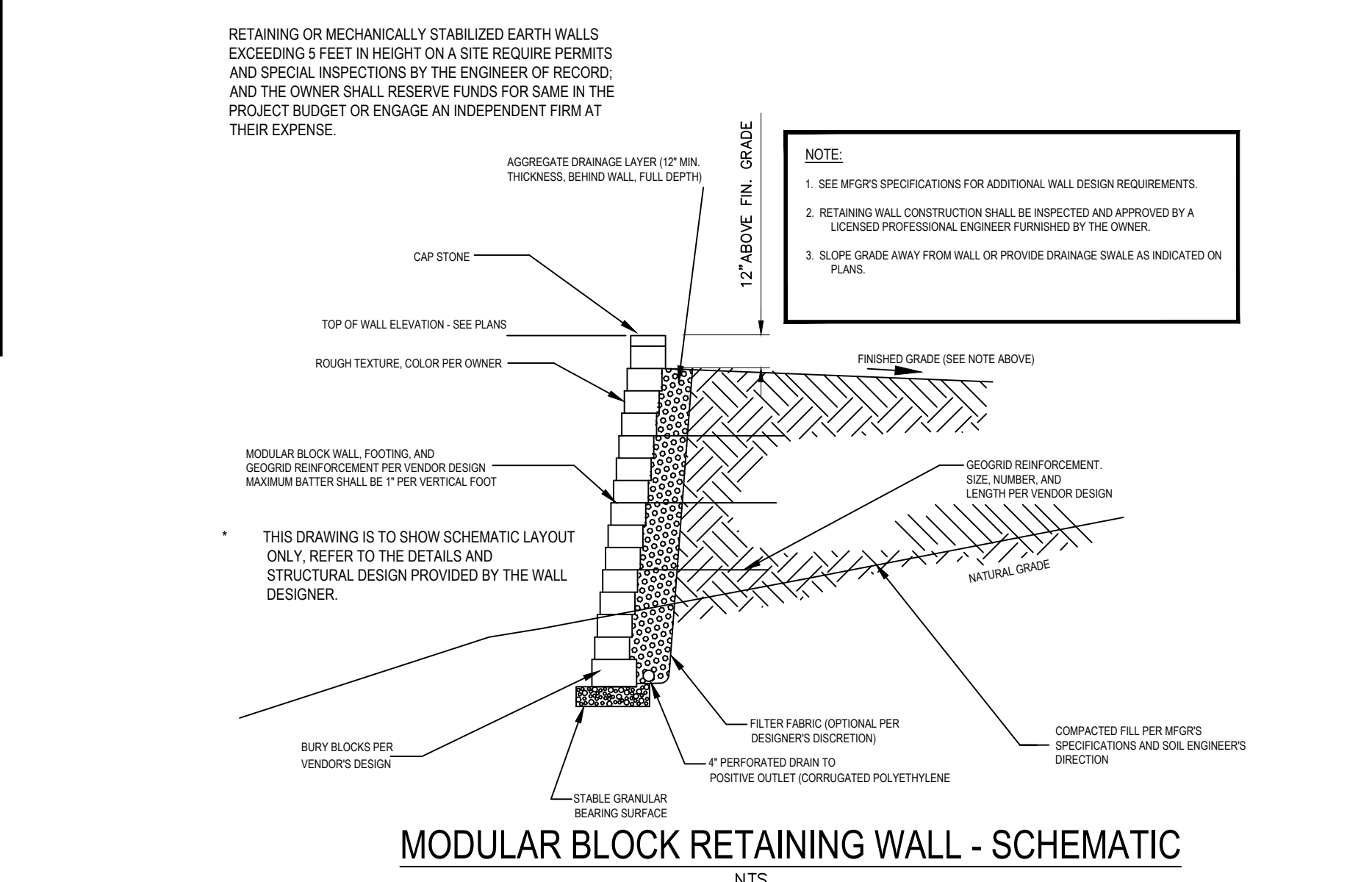
SHEET 1 OF 1
840.31



SIGN AND PAVEMENT MARKING NOTES

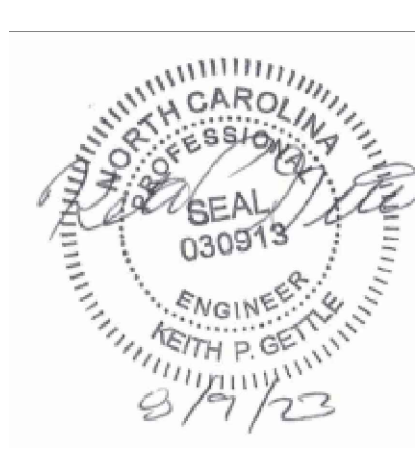
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
- ALL SIGNS SHALL BE MOUNTED WITH 5-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL POST SET IN 18-IN DEEP X 8-IN DIA. CONCRETE FOOTING. SIGNS MOUNTED ADJACENT TO SIDEWALKS MUST BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF SIGN.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

| MARKING | NCDOT STD. | SIZE | COLOR |
|---------------|------------|------|-------|
| PARKING SPACE | RT-1 | 4-IN | WHT. |
| CROSSWALK | 1205.07 | 4-IN | WHT. |



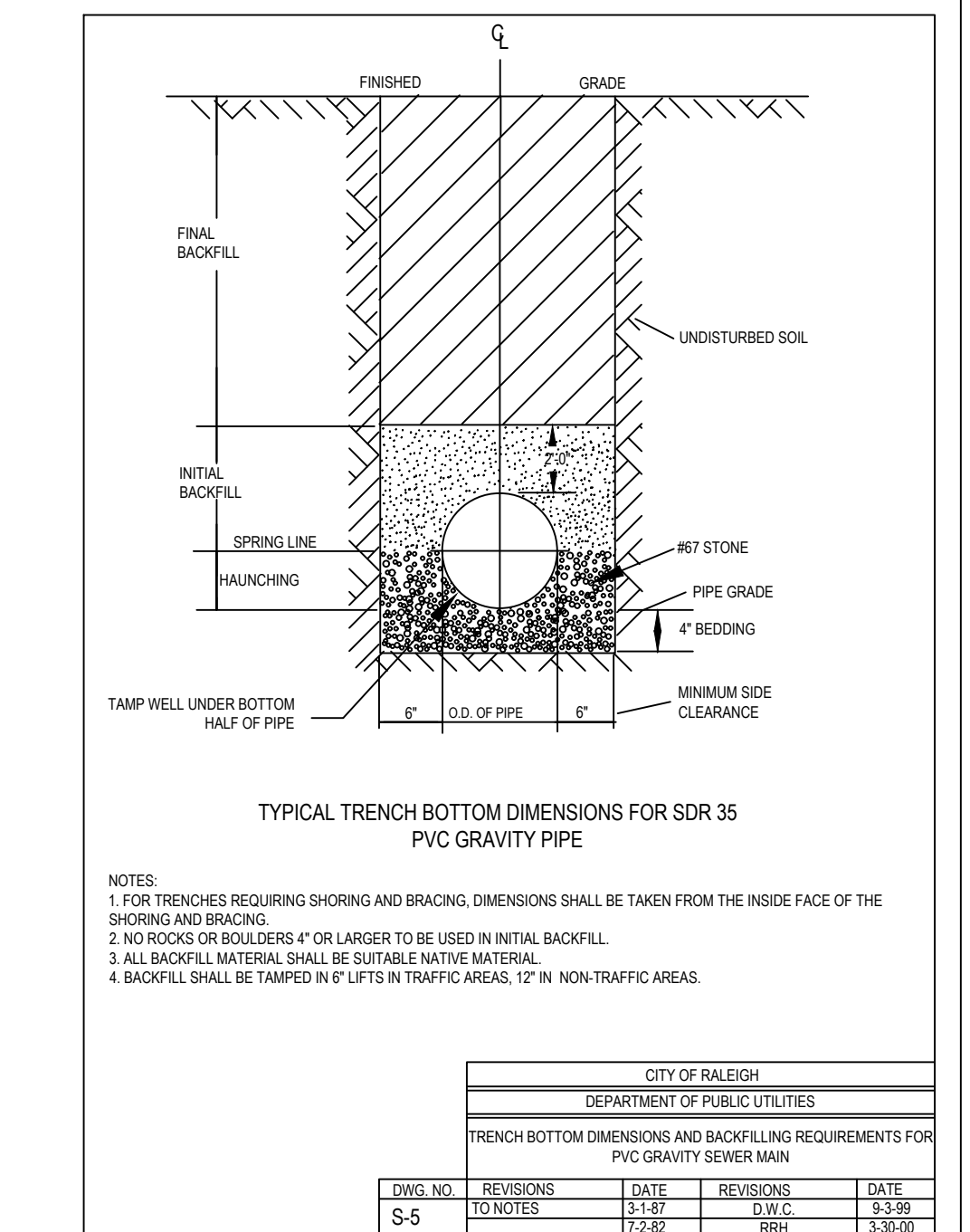
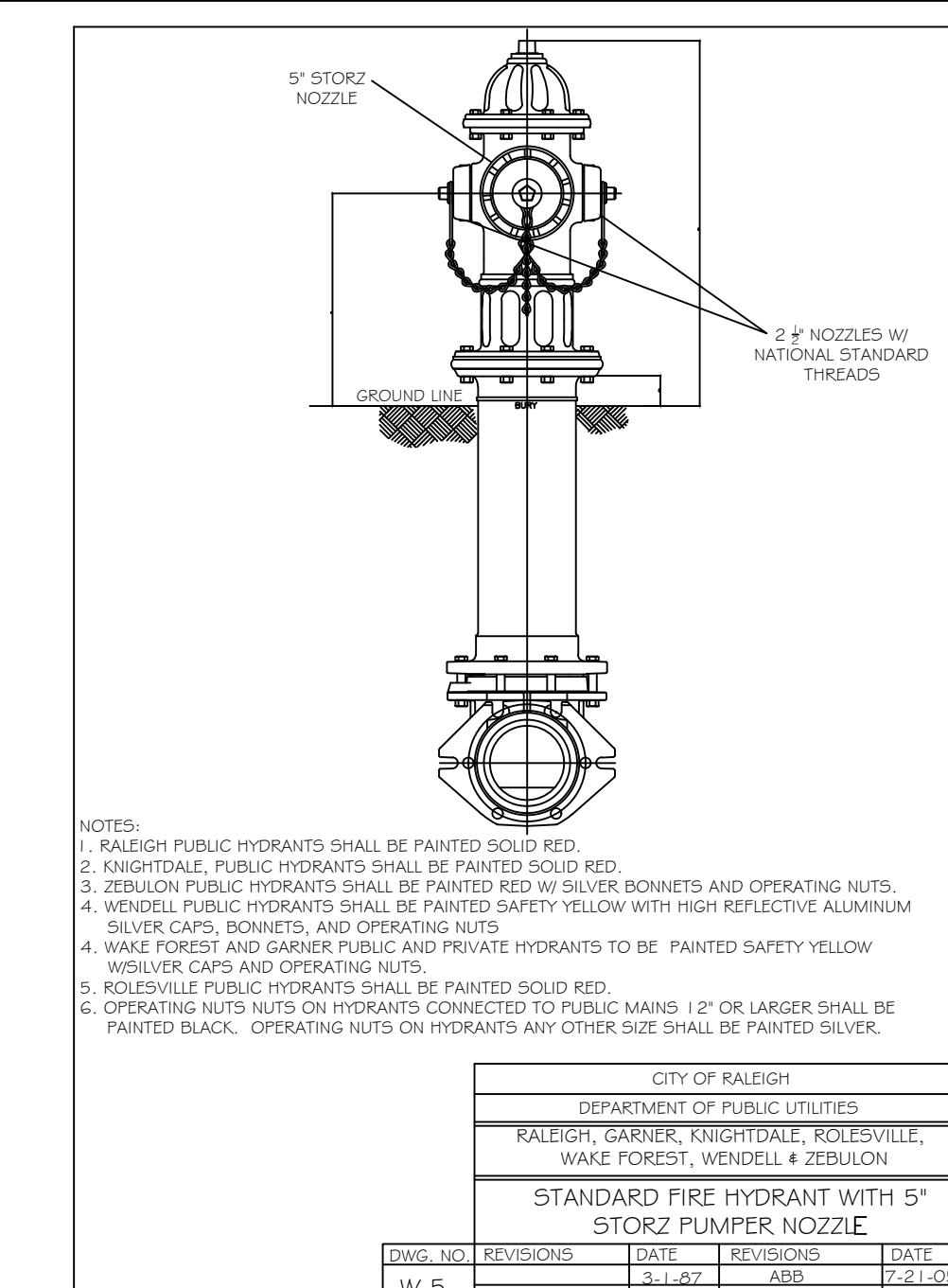
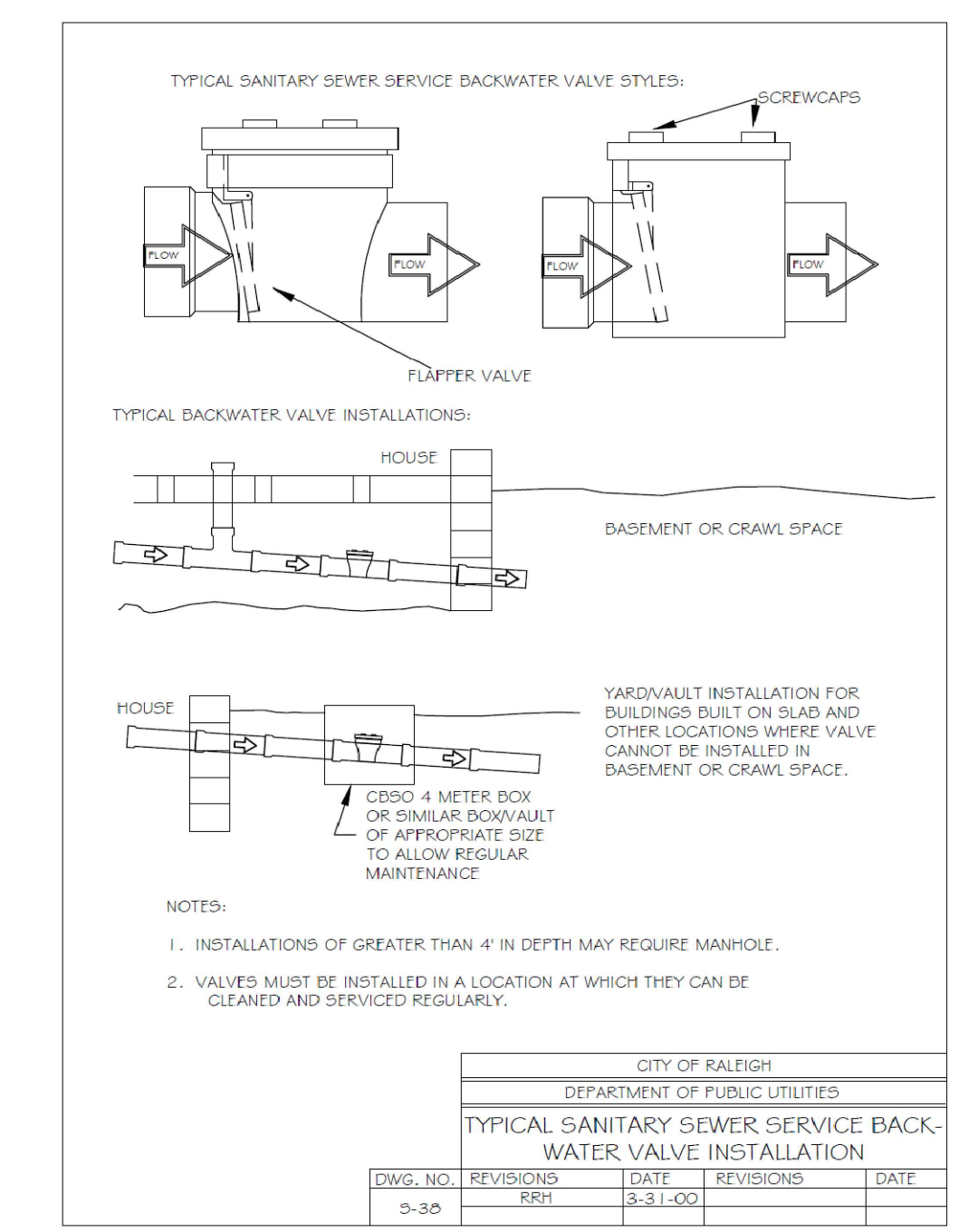
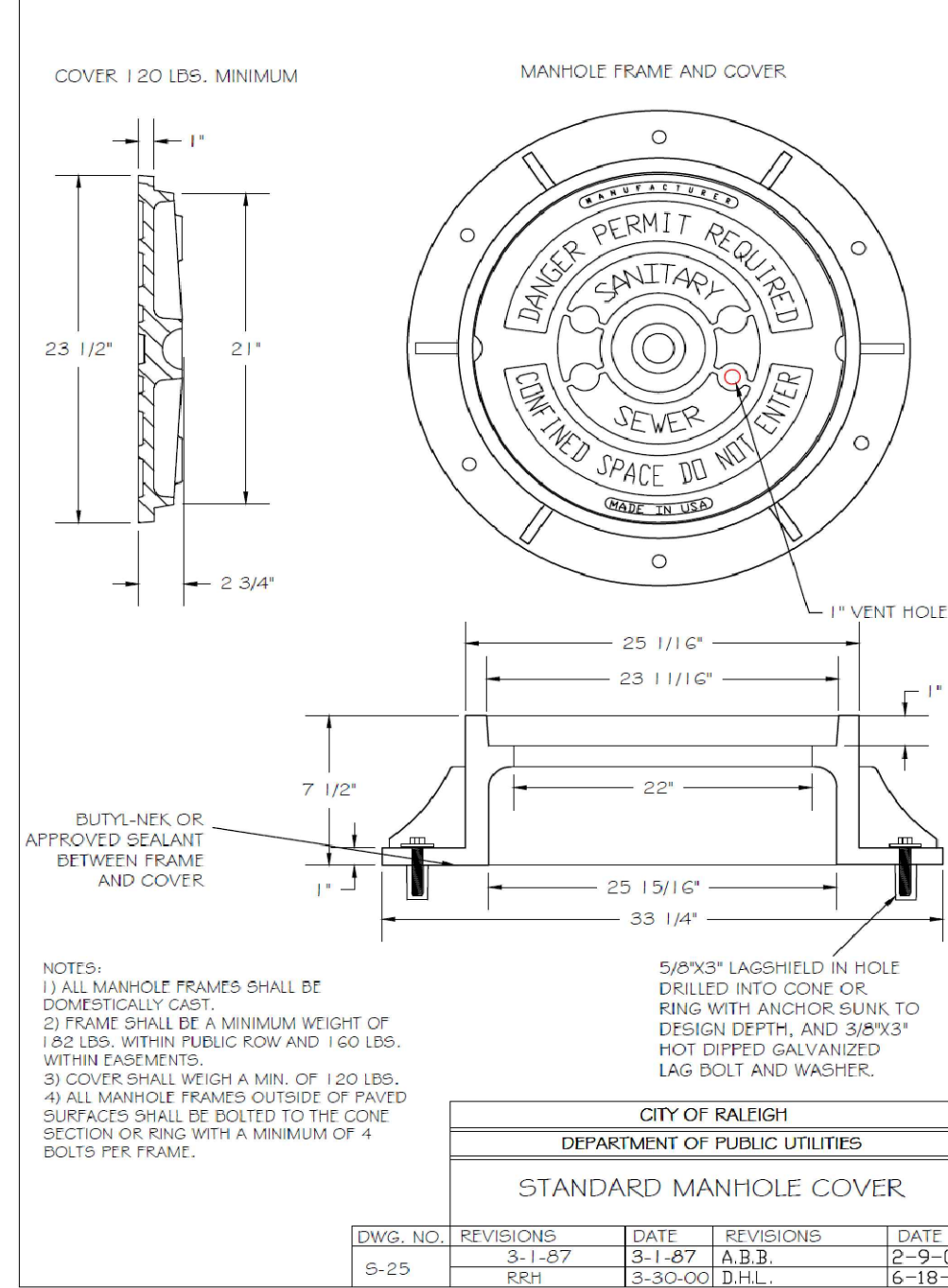
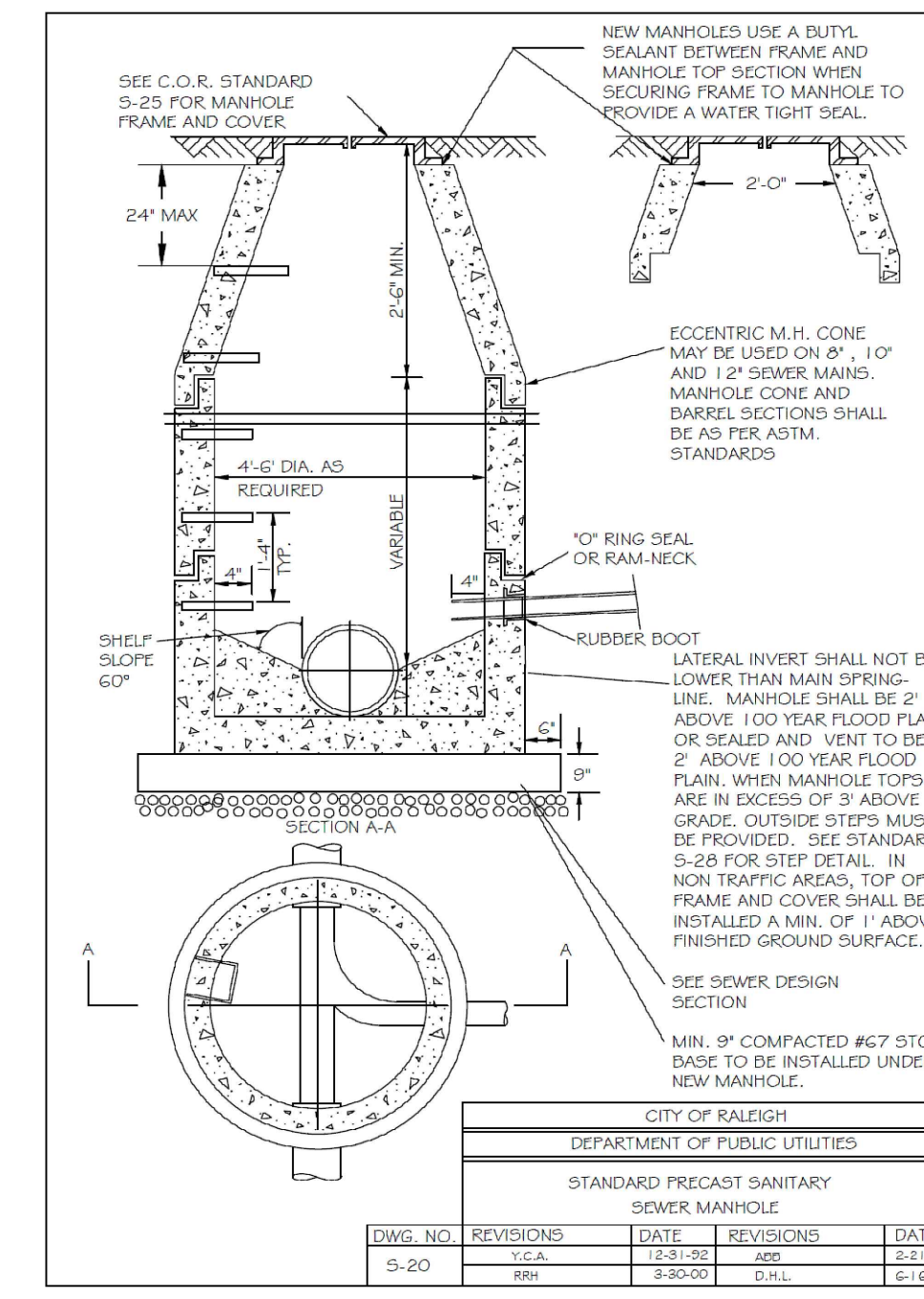
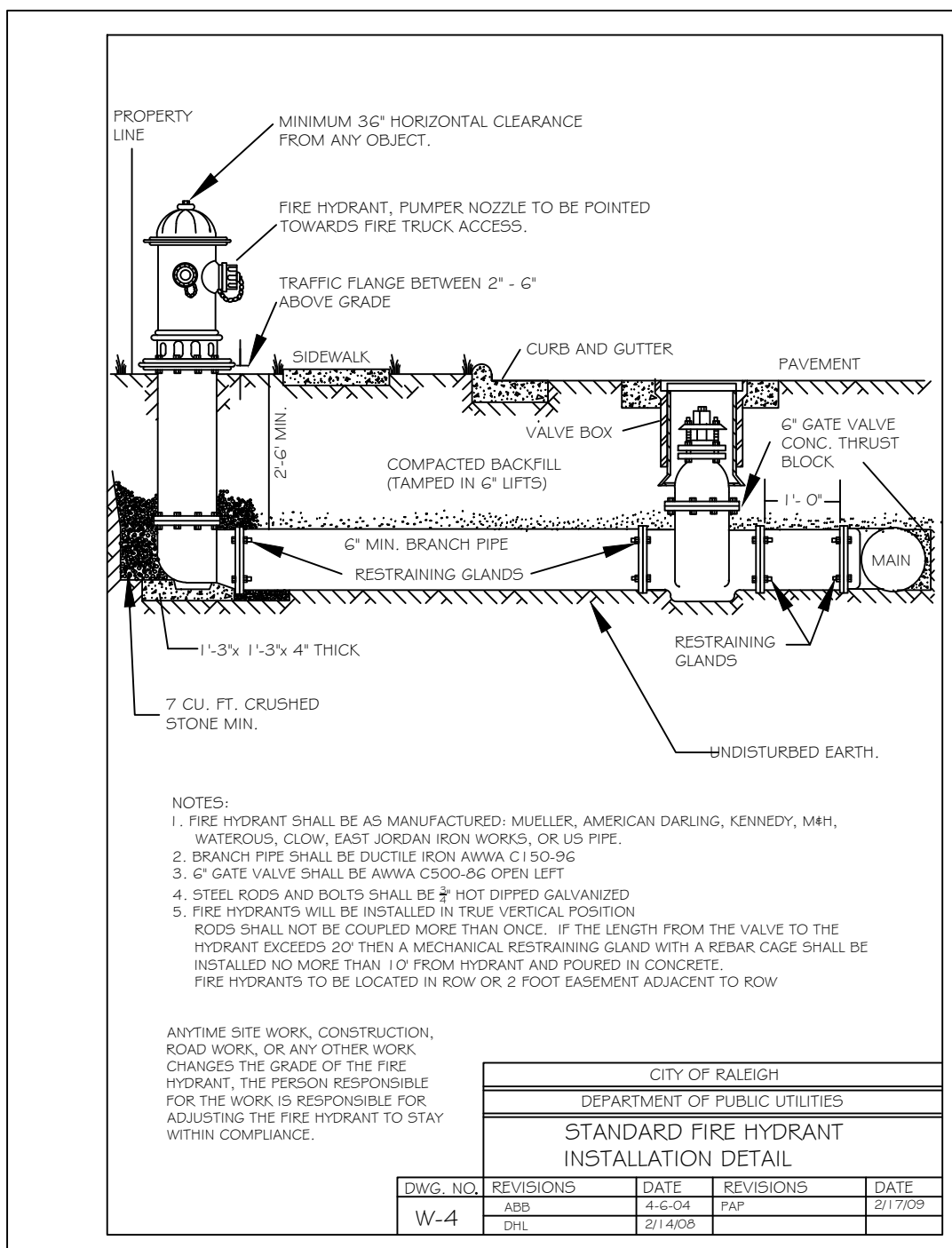
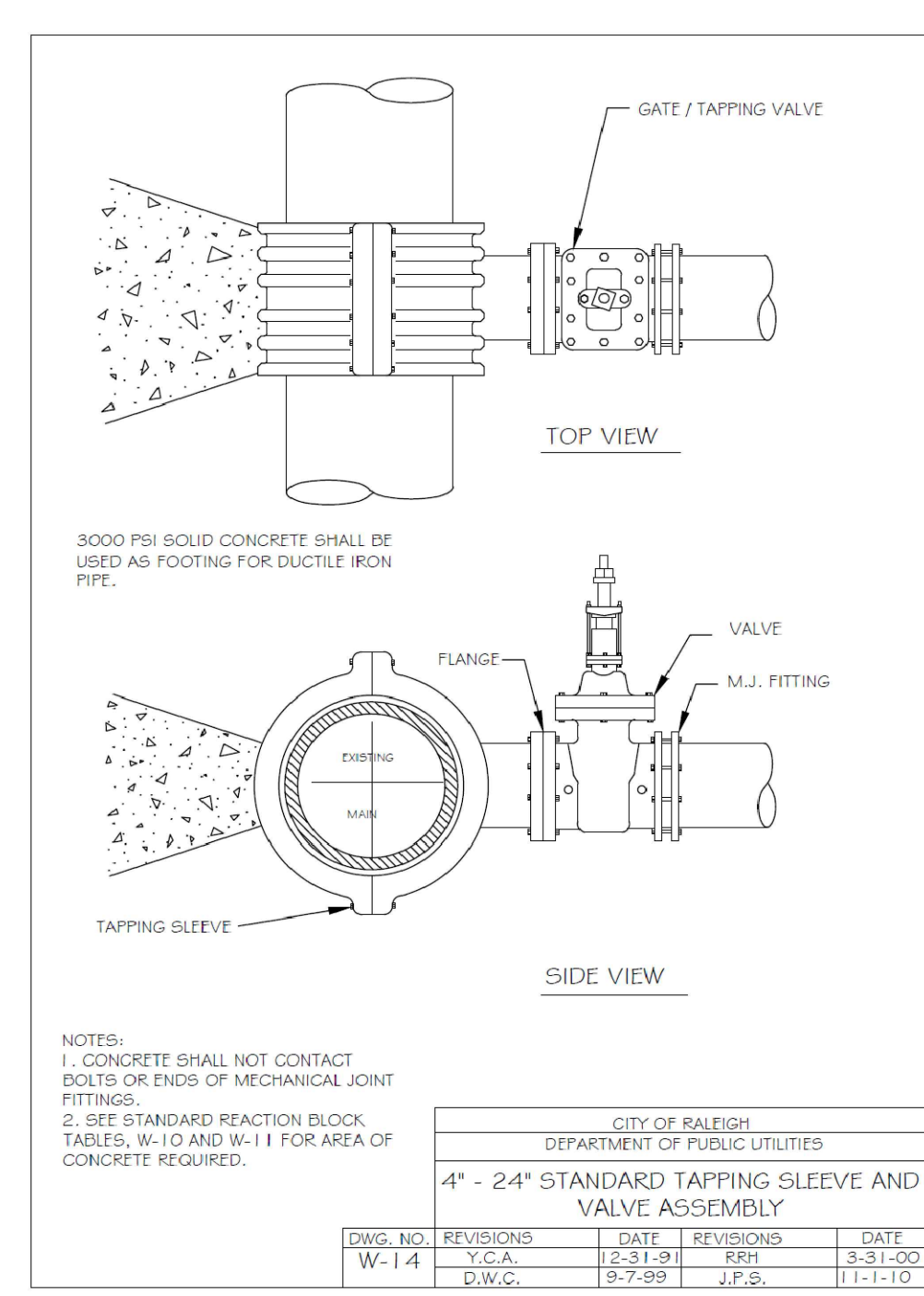
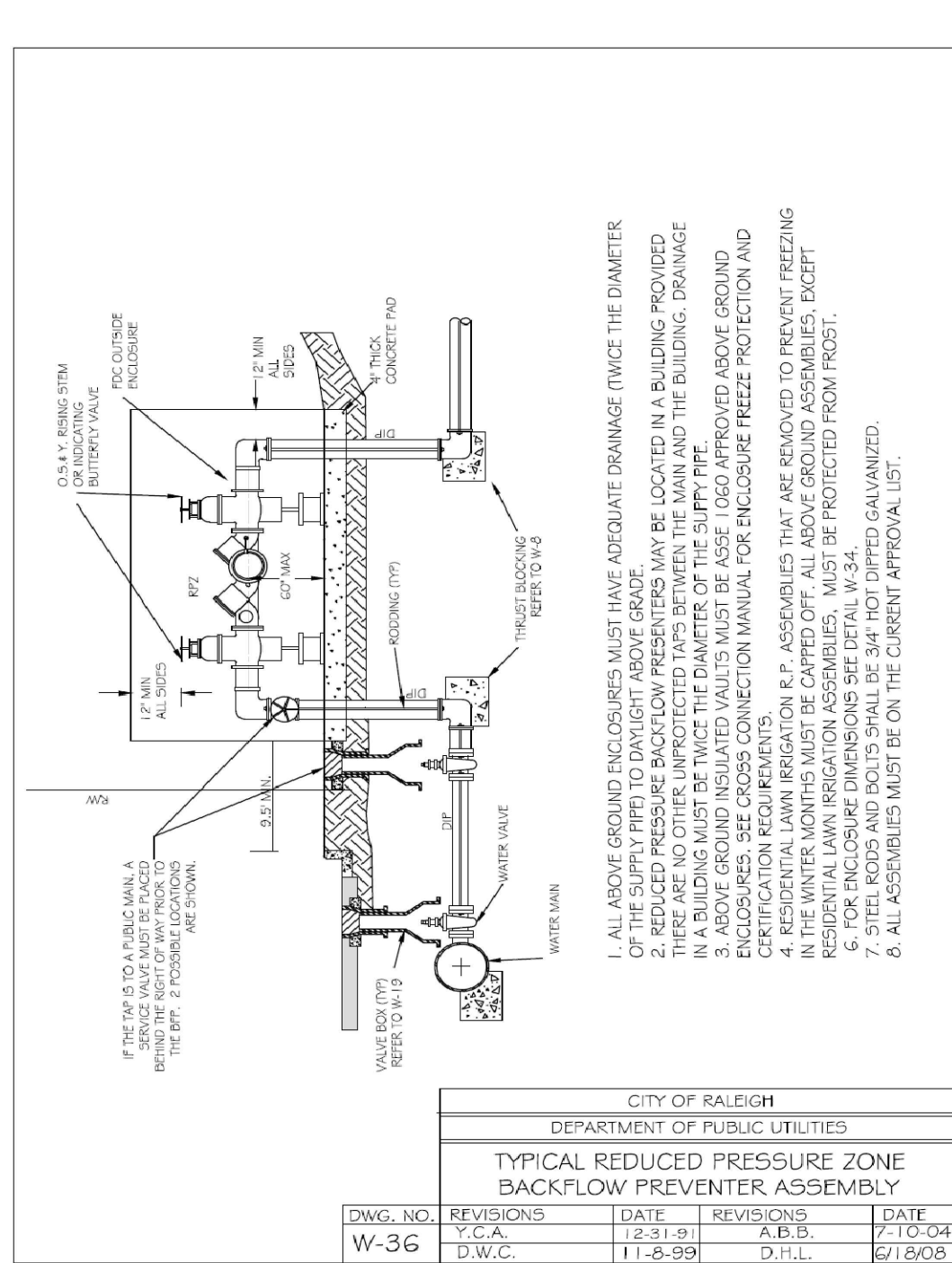
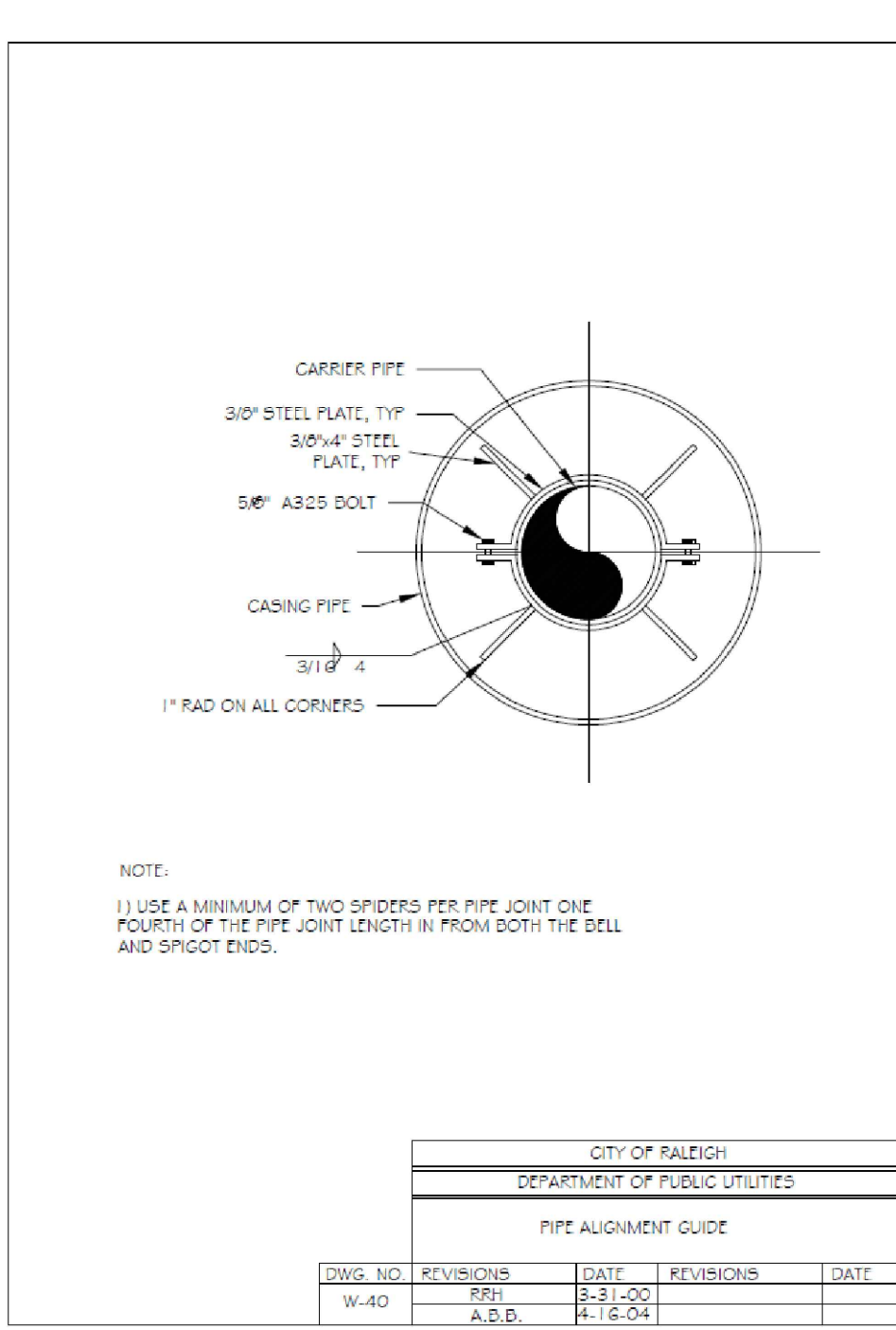
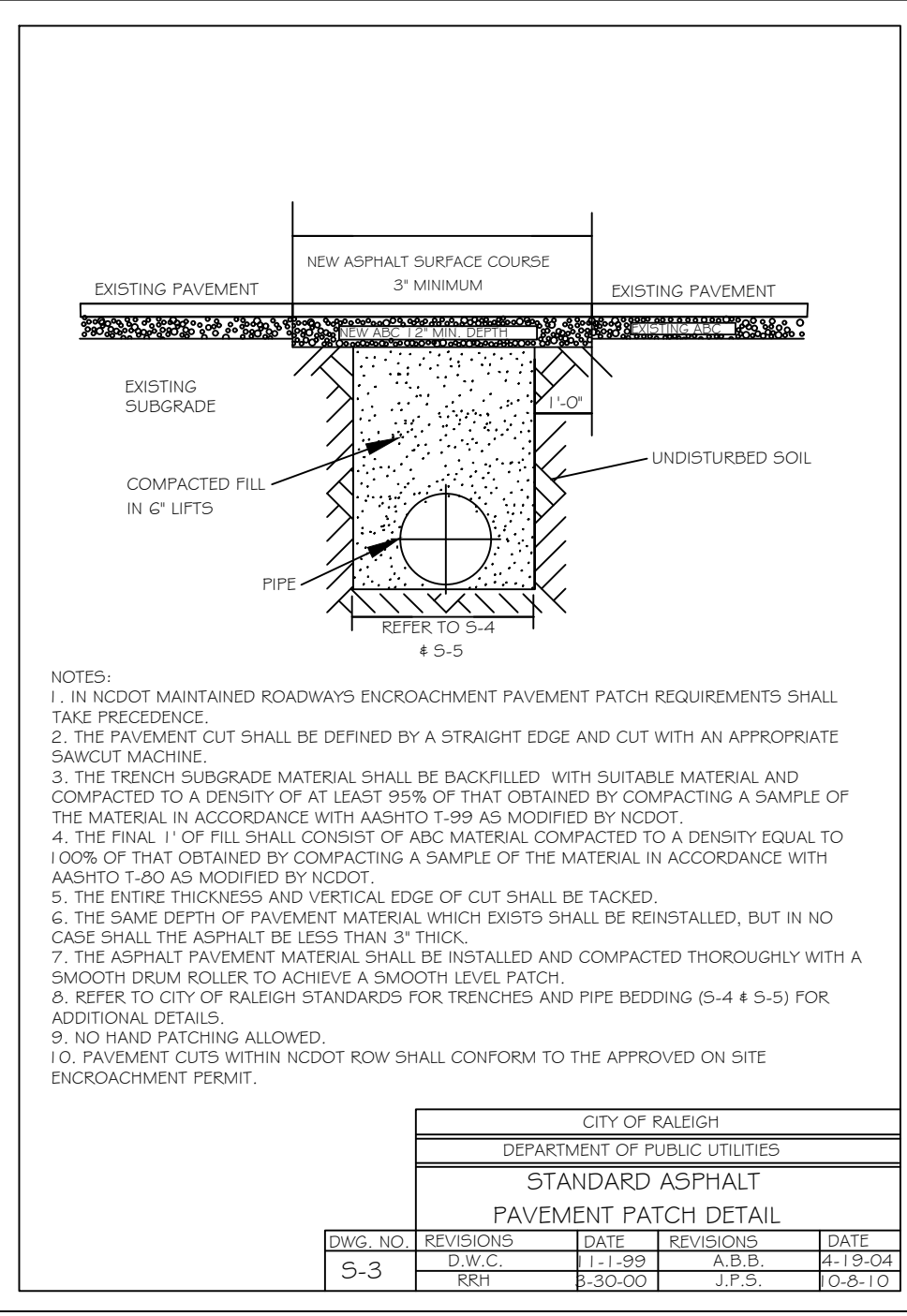
Gettle Engineering and Design, PLLC
 3616 Waxwing Court,
 Wake Forest, North Carolina 27587
 (919) 210-3934
 Firm License P-2538

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Site and Stormwater Details
StorageMax
 901 Proctor Street
 Zebulon, Wake County, North Carolina

Project No. 23001
 Dwg No. **D2**



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 Wake Forest, North Carolina 27587
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 Firm License P-2538

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Water and Sewer Details
StorageMax
 901 Proctor Street
 Zebulon, Wake County, North Carolina

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)
 The City of Raleigh consents to the connection and extension of the City's **Public Sewer System** as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook, **City of Raleigh Public Utilities Department Permit #** _____.

The City of Raleigh consents to the connection and extension of the City's **Public Water System** as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook, **City of Raleigh Public Utilities Department Permit #** _____.

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh Public Utilities Department Permit # _____

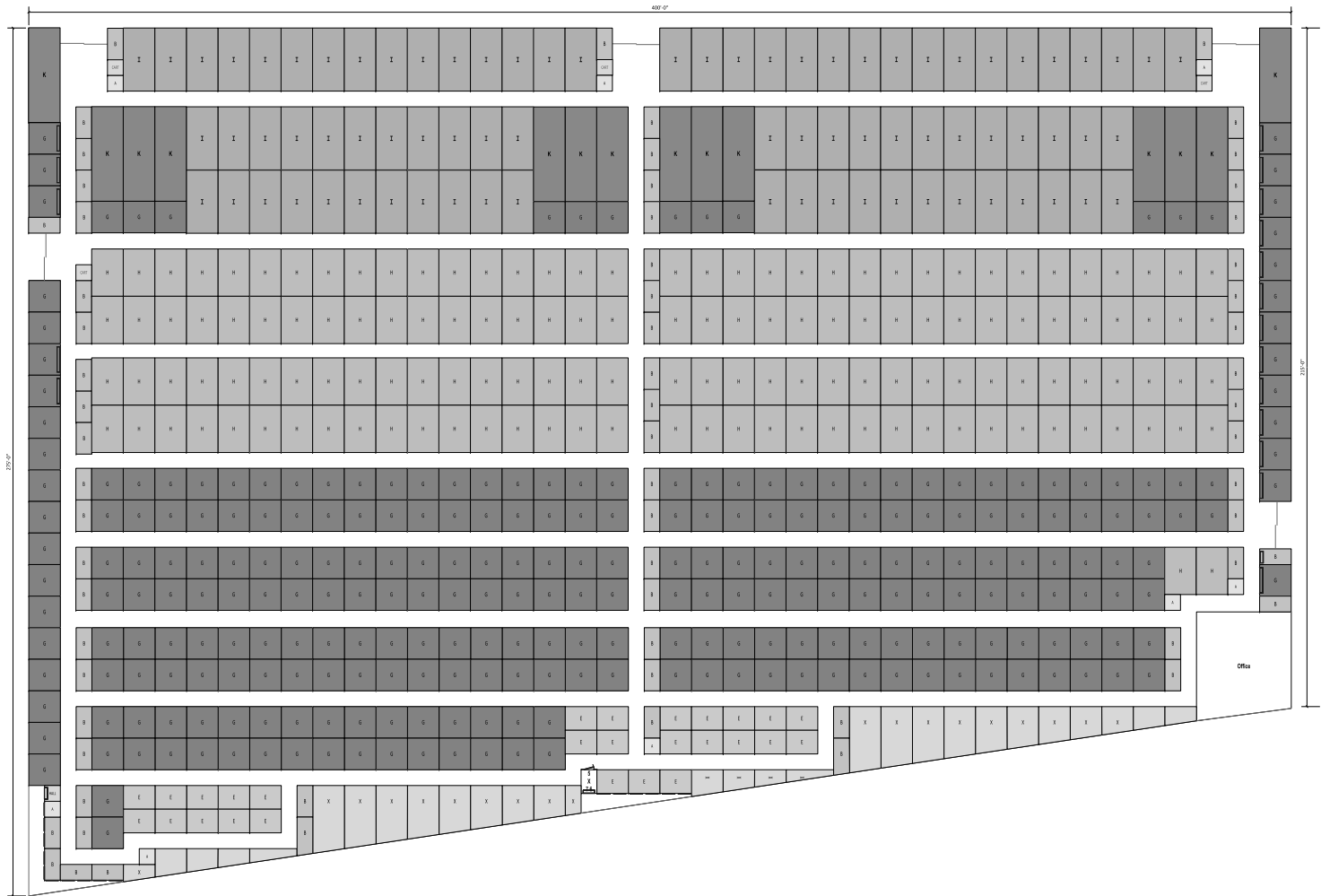
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with local, state, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Reviewer. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
 City of Raleigh Reviewer _____

Project No. 23001
 Dwg No. **D4**



BUILDING "1"

| UNIT MIX SCHEDULE | | | | | |
|-------------------|-------------|------------|----------|-------------|------------|
| UNIT TAG | DESCRIPTION | UNIT COUNT | UNIT TAG | DESCRIPTION | UNIT COUNT |
| A | 5' x 5' | 0 | I | 10' x 20' | 0 |
| B | 5' x 10' | 0 | J | 10' x 25' | 0 |
| C | 5' x 15' | 0 | K | 10' x 30' | 0 |
| D | 5' x 20' | 0 | L | 5x10 Cart | 0 |
| E | 7.5' x 10' | 0 | M | 15' x 20' | 0 |
| F | 8' x 10' | 0 | N | 15' x 25' | 0 |
| G | 10' x 10' | 0 | O | 15' x 30' | 0 |
| H | 10' x 15' | 0 | P | 15'x50' | 0 |

FOR APPROVAL ONLY

| | |
|--|---------------------------|
| | DATE: 6/19/23 REVISION |
| | DRAWN BY: Kevin Neal |
| | SCALE: |
| | |
| | |



PROJECT NAME: Storage Max

PROJECT ADDRESS: Zebulon

OWNER: RHD/ Massey

SHEET TITLE: Bld 1

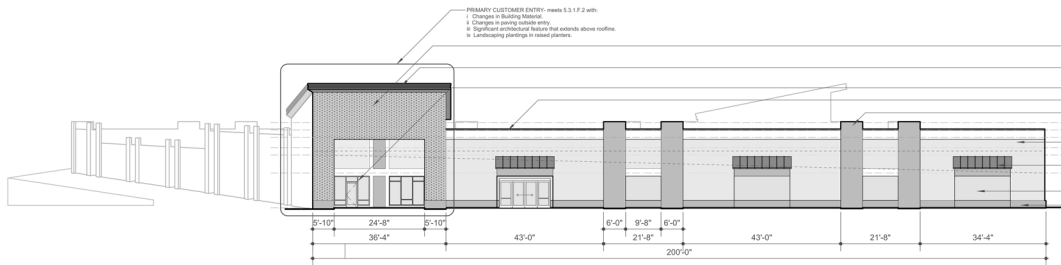
PROJECT NO.: 1

DRAWING NUMBER: 1 OF 1



BUILDING MATERIALS

A2.01 No Scale

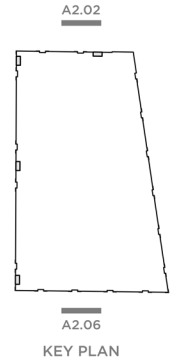


NORTH ELEVATION

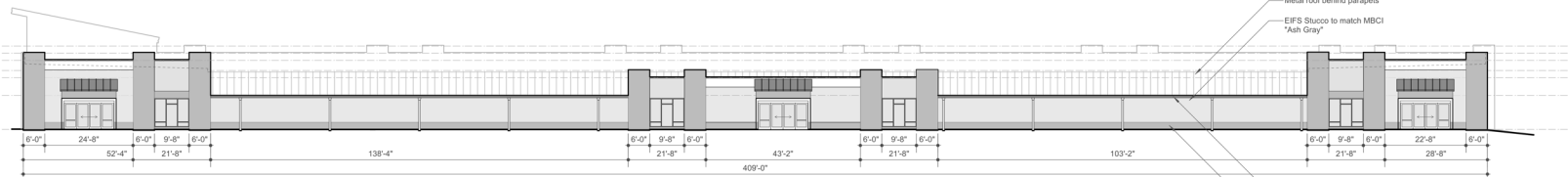
A2.02 1/16"
(SECONDARY ELEVATION)

TYPICAL ELEVATION MATERIALS

- Brick veneer, Palmetto Brick "Walnut"
- Building corner accent to match EIFS color, (Charcoal Gray)
- Storefront glass
- Smooth metal panel cornice MBCI "Polar White"
- Masonry piers @ 2' building recess typical.
- Typical EIFS wall finish to match MBCI "Light stone"
- Metal awning @ windows and faux windows on secondary elevations, MBCI "Charcoal Gray"
- Accent color EIFS panel @ faux windows.
- 2' high masonry base typical.

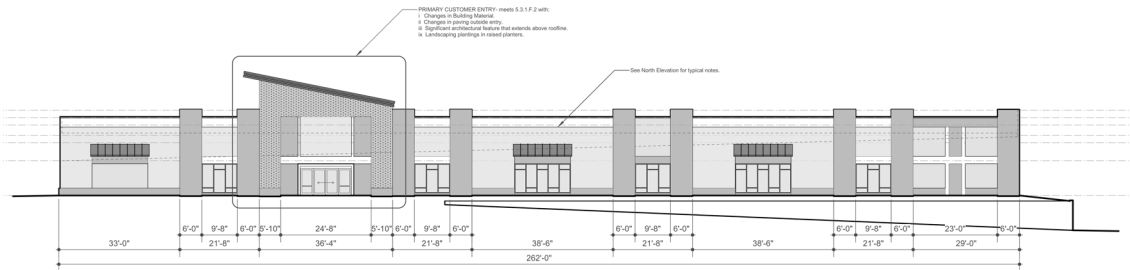


KEY PLAN



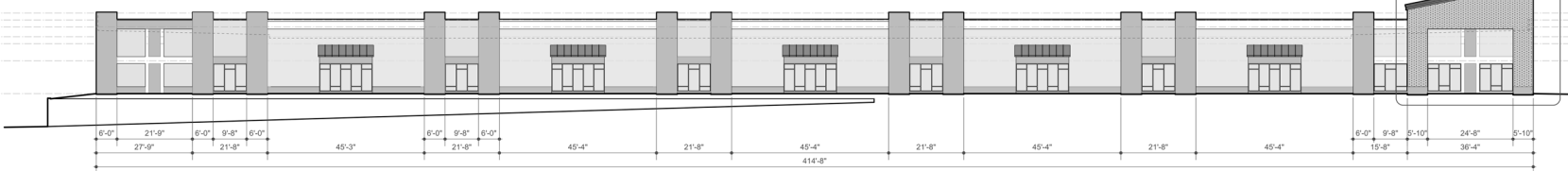
WEST ELEVATION

A2.04 1/16"
(SECONDARY ELEVATION)



SOUTH ELEVATION

A2.06 1/16"
(PROCTOR STREET)



EAST ELEVATION

A2.08 1/16"
(SHEPARD SCHOOL ROAD)



COTTRAH HARRIS ARCHITECTURE
 9735 PALMETTO DRIVE, SUITE 100
 RALEIGH, NC 27617
 919.793.1413

AZ.08

STORAGEMAX SELF STORAGE
 PHASE I SELF-STORAGE
 ROBERT HIGH DEVELOPMENT
 901 PROCTOR STREET
 ZEBULON, NC

BUILDING ONE ELEVATIONS

SCHEMATIC DESIGN
 MAY 26, 2023

A2.0

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