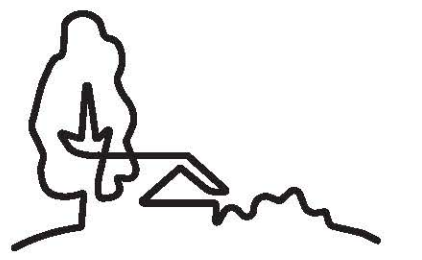


Rosser Rd Industrial

2401 Rosser Rd., Sanford, NC 27332
 Construction Documents
 2nd Submittal: 08/12/2022



URBAN
 DESIGN
 PARTNERS

555 Fayetteville St. 3rd floor
 Raleigh, NC 27601
 P: 919-275-5002
 urbandesignpartners.com
 nc firm no: P-0418 sc coa no: C-03044



08/12/2022

Williams Realty
 & Building Company, Inc.

3111 Glenwood Ave.
 Raleigh, NC 27612

Rosser Rd Industrial
 Construction Documents

Cover Sheet

2401 Rosser Rd, Sanford, NC 27332

NO. DATE BY: REVISIONS:

Project No: 22-RDU-026
 Date: 08.12.2022
 Designed By: UDP
 Checked By: BAR
 Sheet No:

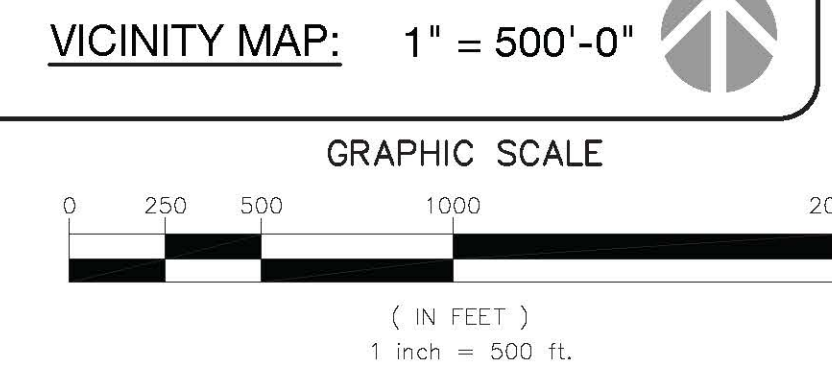
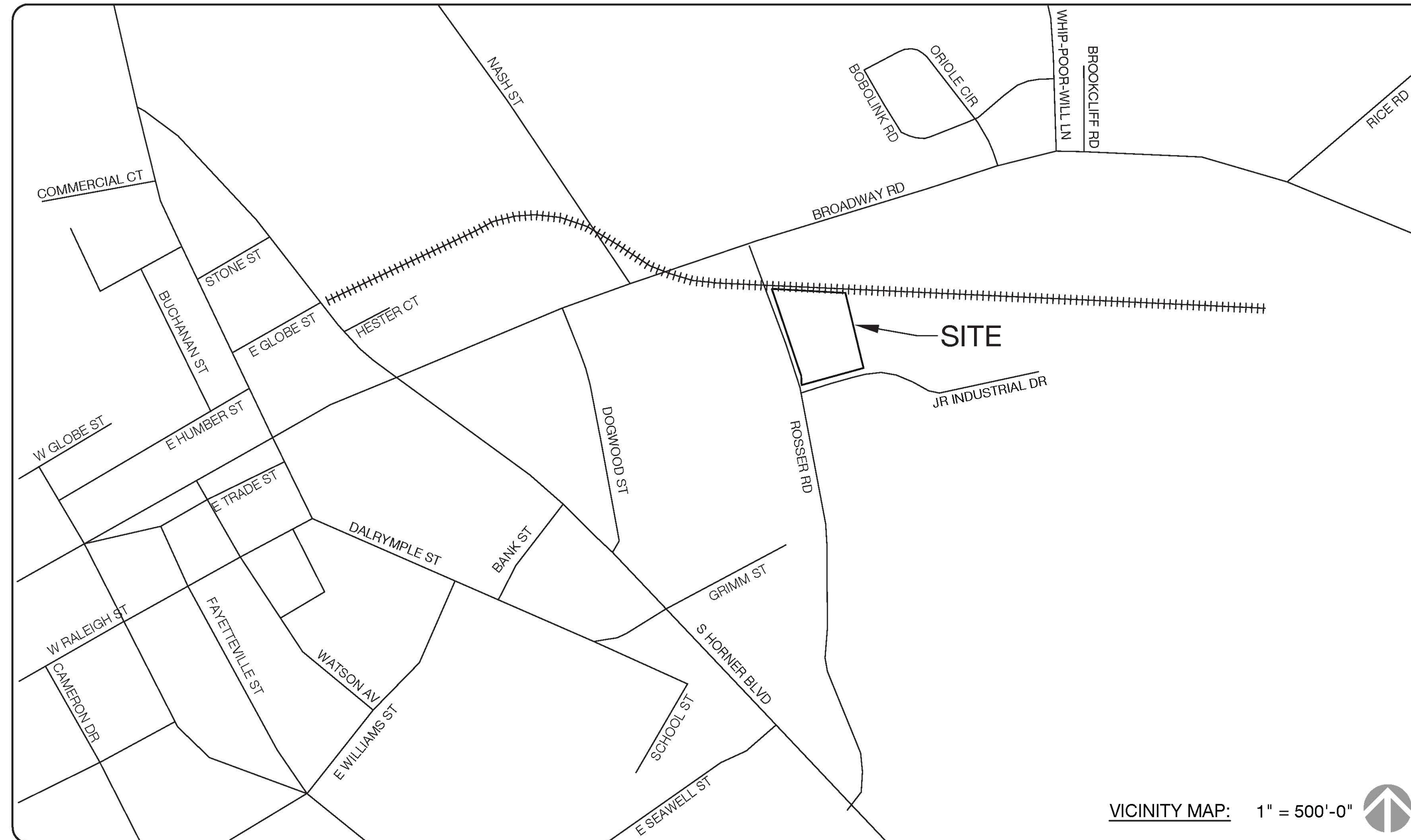
C-1.0

APPLICANT: The person responsible for submitting the TRC package.
 Name: Brian Richards Title: PLA
 Business Name: Urban Design Partners
 Business Address: 555 Fayetteville St. 3rd Floor Raleigh, NC 27601
 Business Phone: 919-275-5002 Mobile Phone:
 Email: brichards@urbandesignpartners.com

PROPERTY OWNER(S): The legal property owner(s) as of the date of TRC submittal.
 Name: Charles M. Oldham III Title:
 Business Name:
 Business Address: 4105 North Course Drive, Charlotte NC 28277
 Business Phone: Mobile Phone: 704-572-3372
 Email:

PROJECT MANAGER: The one person responsible for coordinating the entire project from beginning to end. This person should be knowledgeable of construction methods and scheduling and will be the "go to" person for staff when there a question or problem regarding the project.
 Name: Brian Richards Title: PLA
 Business Name: Urban Design Partners
 Business Address: 555 Fayetteville St. 3rd Floor Raleigh, NC 27601
 Business Phone: 919-275-5002 Mobile Phone:
 Email: brichards@urbandesignpartners.com

SITE INFORMATION:
 Jurisdiction: Lee County City of Sanford Town of Broadway
 Lee County Tax Parcel(s) Identification Number (PIN): 9652-92-2444-00
 Address / Project Location: 2401 Rosser Road Sanford NC 27332
 Current Zoning District: LI
 Total Site Acreage: ± 5.15 ac
 Current Use: Vacant
 Is any portion of the site located in the floodplain or floodway? N/A
 Is any portion of the site located in a watershed? N/A



GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF SANFORD AND NCDOT STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FOR ANY WORK WHICH REQUIRES THE CLOSURE OF A TRAVEL LANE(S), PARKING SPACE, OR SIDEWALK FROM RIGHT-OF-WAY SERVICES AT LEAST 48 HOURS IN ADVANCE.
- NO WORK WILL BE ALLOWED WITHIN NCDOT ROW UNTIL ALL ENCROACHMENT AGREEMENTS ARE APPROVED BY NCDOT.
- IF CONSTRUCTION PLANS FOR PUBLIC AND PRIVATE STREETS OR UTILITIES SHOWN ON THIS PLAN ARE REQUIRED, THEY MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENT AND PUBLIC UTILITIES DEPARTMENT PRIOR TO ISSUANCE OF PERMITS OR RECORDING OF ANY PLAN FOR THIS DEVELOPMENT.
- FIELD ADJUSTMENTS TO THIS PLAN MAY BE REQUIRED BY CITY OF RALEIGH INSPECTOR AS NEEDED DURING CONSTRUCTION.
- ALL PROPOSED CURB AND GUTTER WITHIN PUBLIC RIGHT OF WAY SHOWN ON PLANS TO BE 30" CITY OF RALEIGH STANDARD CONCRETE CURB AND GUTTER, AND ALL OTHER PROPOSED CURB AND GUTTER TO BE 24" CONCRETE CURB AND GUTTER UNLESS OTHERWISE STATED ON PLANS.
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, UNLESS OTHERWISE STATED ON PLANS.
- WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ANY BERM, FOLIAGE, FENCE, WALL, SIGN, OR PARKED VEHICLE.
- UNLESS NOTED, ACCESS ROUTE FOR EMERGENCY VEHICLES SHALL PROVIDE AN INSIDE TURNING RADIUS OF 28' MINIMUM.
- TRASH AND CARDBOARD DUMPSTER(S) ENCLOSURE SHALL COMPATIBLE WITH MATERIAL AND/OR COLOR OF THE PRINCIPAL BUILDING.
- ALL HVAC UNITS SHALL BE SCREENED FROM VIEW OF THE PUBLIC RIGHT OF WAY.
- CONTRACTOR TO FIELD LOCATE AND VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTACT NC ONE AT 811 FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
- HANDICAP PARKING SPACE(S) AND HC ACCESS AISLE(S) SHALL BE NO GREATER THAN TWO PERCENT (2%) PITCH IN ANY DIRECTION(S) AS PER ADA STANDARDS.
- PROVIDE SIGNAGE AND STRIPING OF HANDICAP SPACES AS PER ADA STANDARDS.
- ALL RETAINING WALLS GREATER THAN 30" IN HEIGHT TO INCLUDE SAFETY RAIL OR FENCE. NO
- RETAINING WALLS ARE PERMITTED IN THE RIGHT-OF-WAY UNLESS APPROVED BY ENCROACHMENT.
- THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST 20 FEET FROM THE POINT OF TANGENCY OF THE CURB FOR RESIDENTIAL DRIVEWAY. NO DRIVEWAYS SHALL ENCROACH ON THIS MINIMUM CORNER CLEARANCE.
- WC ACCESS RAMPS WILL BE PROVIDED IN ACCORDANCE WITH CITY OF SANFORD PUBLIC WORKS DEPARTMENT STANDARDS, PROWAG STANDARDS AND ADAAG SPECIFICATIONS
- ALL RAMPS AND HANDRAILS SHALL BE CONFORM TO ANSI STANDARDS.
- ALL ABOVE GROUND UTILITY DEVICES (TO INCLUDE BUT NOT LIMITED TO TELEPHONE AND CABLE PEDESTALS, ELECTRICAL TRANSFORMERS, BACKFLOW DEVICE HOTBOX, ETC) SHALL BE SCREENED FROM OFF-SITE VIEW BY EVERGREEN SHRUBS, FENCE, OR WALL.
- ALL SIDEWALKS MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PPOWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- IF UNFORESEEN CONDITIONS DEVELOP DURING CONSTRUCTION, REFER TO "CITY OF RALEIGH STREET DESIGN MANUAL" AND CONTACT PUBLIC WORKS DEPARTMENT FOR FURTHER GUIDANCE.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF RALEIGH PUBLIC WORKS DEPARTMENT / TRANSPORTATION FIELD SERVICES STAFF TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THESE FACILITIES DURING CONSTRUCTION. CONTACT ENGINEERING INSPECTIONS AT 919.996.2409 TO SET UP THE MEETING.
- THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
- PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE
- ANY FUTURE COMMENTS FROM NCDOT WILL BE INCORPORATED INTO THE CONCURRENT REVIEW FOR THE SITE PLAN (SR-47-17).

CONTACT INFORMATION

OWNER:
 WILLIAMS REALTY & BUILDING COMPANY, INC.
 CONTACT: ALEX DILLON
 ADDRESS: 3111 GLENWOOD AVE.
 RALEIGH, NC 27612
 PHONE: 919.881.1453

CIVIL ENGINEER & LANDSCAPE ARCHITECT:
 URBAN DESIGN PARTNERS PLLC
 CONTACT: BRIAN A. RICHARDS, PLA
 ADDRESS: 555 FAYETTEVILLE ST. 3RD FLOOR
 RALEIGH, NC 27601
 PHONE: 919-275-5002 FAX: 704-334-3305

SHEET INDEX

Sheet Number	Sheet Title
C-1.0	Cover Sheet
--	Site Survey
C-2.1	Demolition Plan
C-3.0	Site Plan
C-3.1	Pavement Plan
C-4.0	Grading and Storm Drainage Plan
C-6.0	Utility Plan
C-7.0	Erosion Control - Phase 1
C-7.1	Erosion Control - Phase 2
C-8.0	Site Specifications & Details
C-8.1	Site Specifications & Details
C-8.2	Site Specifications & Details
C-8.3	Erosion Control Details
C-8.4	Erosion Control Details
C-8.5	Erosion Control Details
LS-1.0	Landscape Plan
LS-2.0	Landscape Details

SITE DATA

SITE ADDRESS:	2401 ROSSER RD SANFORD, NC 27332
TAX PARCEL ID #:	9652-92-2444-00
COUNTY:	LEE
TOTAL SITE AREA:	± 5.2 AC (226,512 SF)
EXISTING ZONING:	LI
PROPOSED ZONING:	LI * (SUP)
SETBACKS:	
FRONT:	30'
SIDE:	0'
REAR:	0'

ALL LINEAR DIMENSIONS HEREON ARE SHOWN IN FEET AND DECIMALS OF A FOOT.

ALL AREAS CALCULATED BY COORDINATE COMPUTATION.

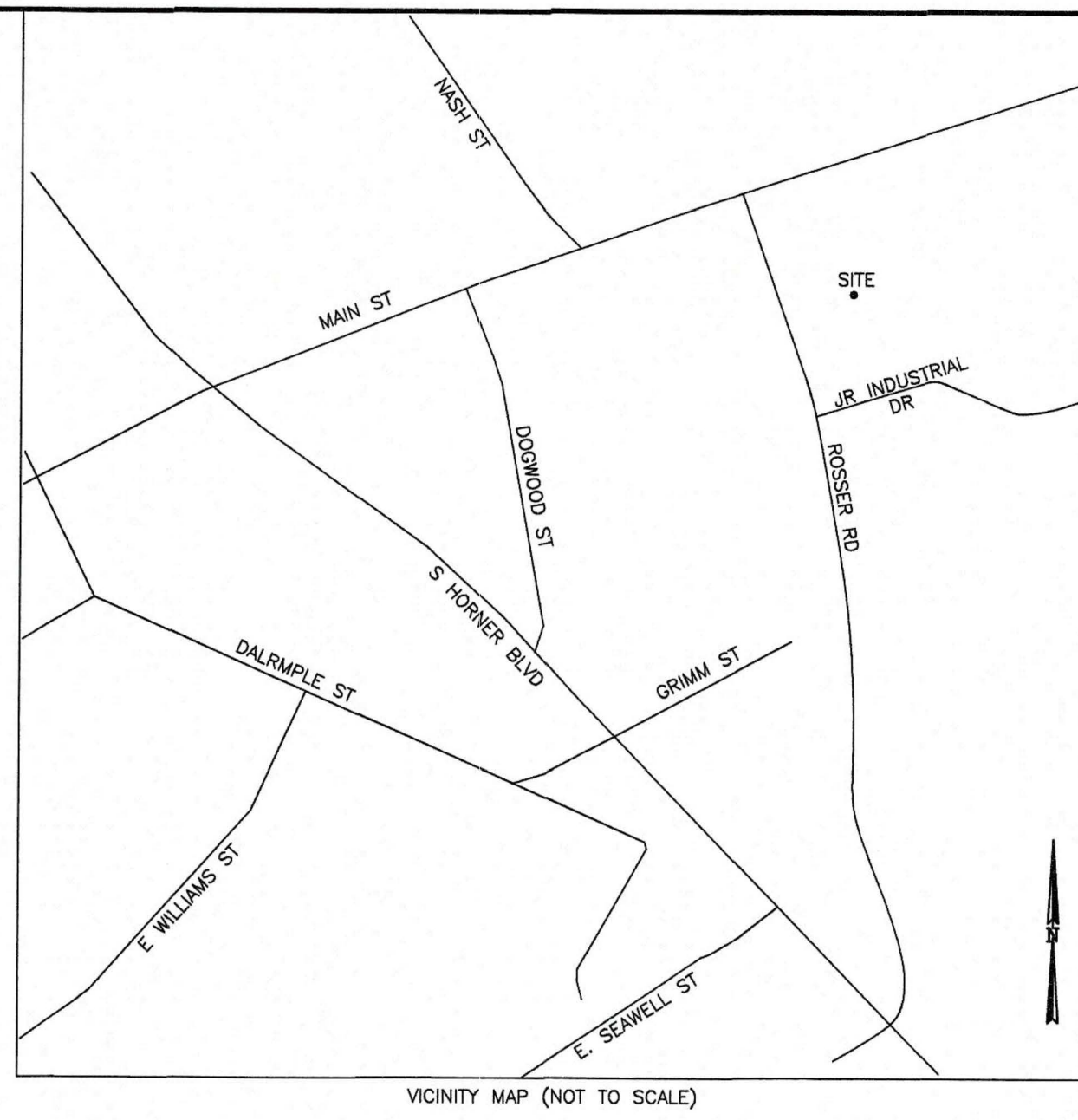
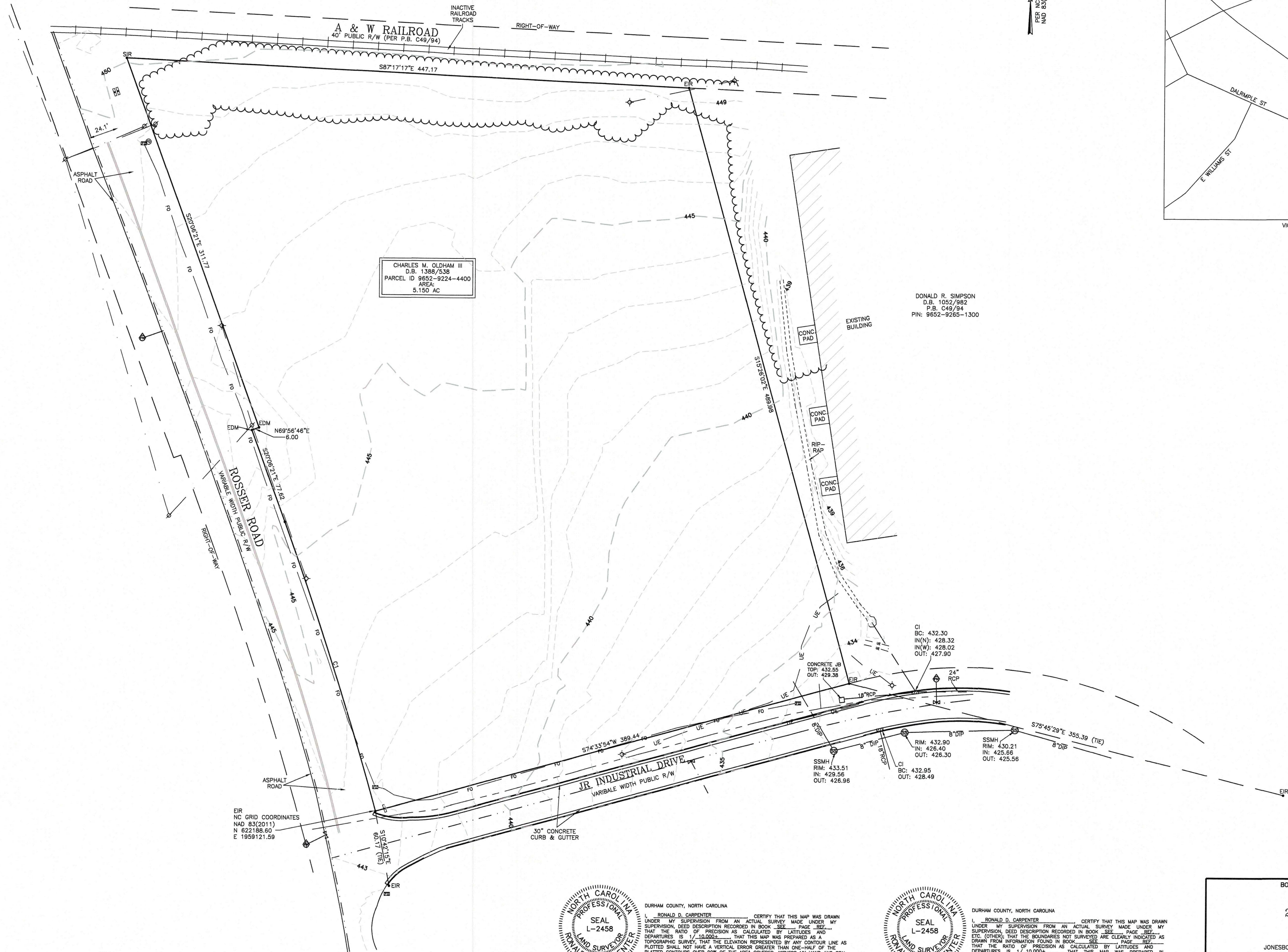
NO N.C. GRID MONUMENT RECOVERED WITHIN 2000'.

NC GRID HORIZONTAL AND VERTICAL LOCATION BASED ON VRS SURVEY USING THE PHYSICAL REFERENCE GPS BASE STATION "BASE". HORIZONTAL DATUM NAD 83 (2011), VERTICAL DATUM NAVD 88.

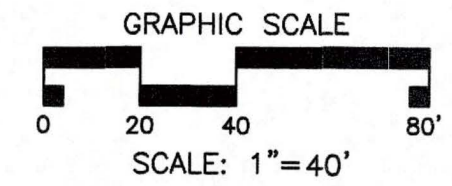
SUBJECT PROPERTY IS ZONED: L1

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON: FIRM PANEL(S): 3710965200J EFFECTIVE DATE(S): 09/06/2006

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BRG	CHORD
C1	4°42'04"	2936.55	240.95	120.54	N17°45'19"W	240.88



LEGEND	
EDM	EXISTING DISC MONUMENT
SIR	SET IRON ROD
EIR	EXISTING IRON ROD
EIP	EXISTING IRON ROD
RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE
⊙	FIRE HYDRANT
⊕	WATER VALVE
⊖	CURB INLET
⊖	CURB INLET
SSMH	SANITARY SEWER MANHOLE
⊖	SANITARY SEWER MANHOLE
⊖	FIBOR OPTIC BOX
⊕	POWER POLE
⊕	LIGHT POLE
⊖	STREET SIGN
---	OVERHEAD ELECTRIC
---	UNDERGROUND STORMWATER
---	UNDERGROUND SANITARY SEWER
---	UNDERGROUND ELECTRIC
---	UNDERGROUND GAS LINE
---	UNDERGROUND FIBOR OPTICS
---	UNDERGROUND WATER LINE
---	TREE LINE



DURHAM COUNTY, NORTH CAROLINA
I, RONALD D. CARPENTER, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, DEED DESCRIPTION RECORDED IN BOOK ___ PAGE ___ AND THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1/10,000. THAT THIS MAP WAS PREPARED AS A TOPOGRAPHIC SURVEY, THAT THE ELEVATION REPRESENTED BY ANY CONTOUR LINE AS PLOTTED SHALL NOT HAVE A VERTICAL ERROR GREATER THAN ONE-HALF OF THE PLATTED CONTOUR OVER BOX OF THE AREA COVERED. WITNESS MY HAND AND SEAL THIS 22ND DAY OF JUNE 2022.

PROFESSIONAL LAND SURVEYOR



DURHAM COUNTY, NORTH CAROLINA
I, RONALD D. CARPENTER, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, DEED DESCRIPTION RECORDED IN BOOK ___ PAGE ___ AND THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1/10,000. THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH GS 47-30 AS AMENDED. WITNESS MY HAND AND SEAL THIS 22ND DAY OF JUNE 2022.

PROFESSIONAL LAND SURVEYOR
LICENSE NUMBER L-2458

BOUNDARY & TOPOGRAPHIC SURVEY FOR

2401 ROSSER ROAD

JONESBORO TOWNSHIP, LEE COUNTY, NORTH CAROLINA

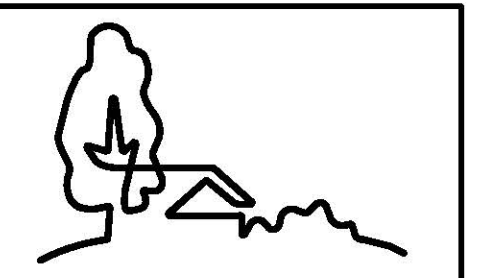
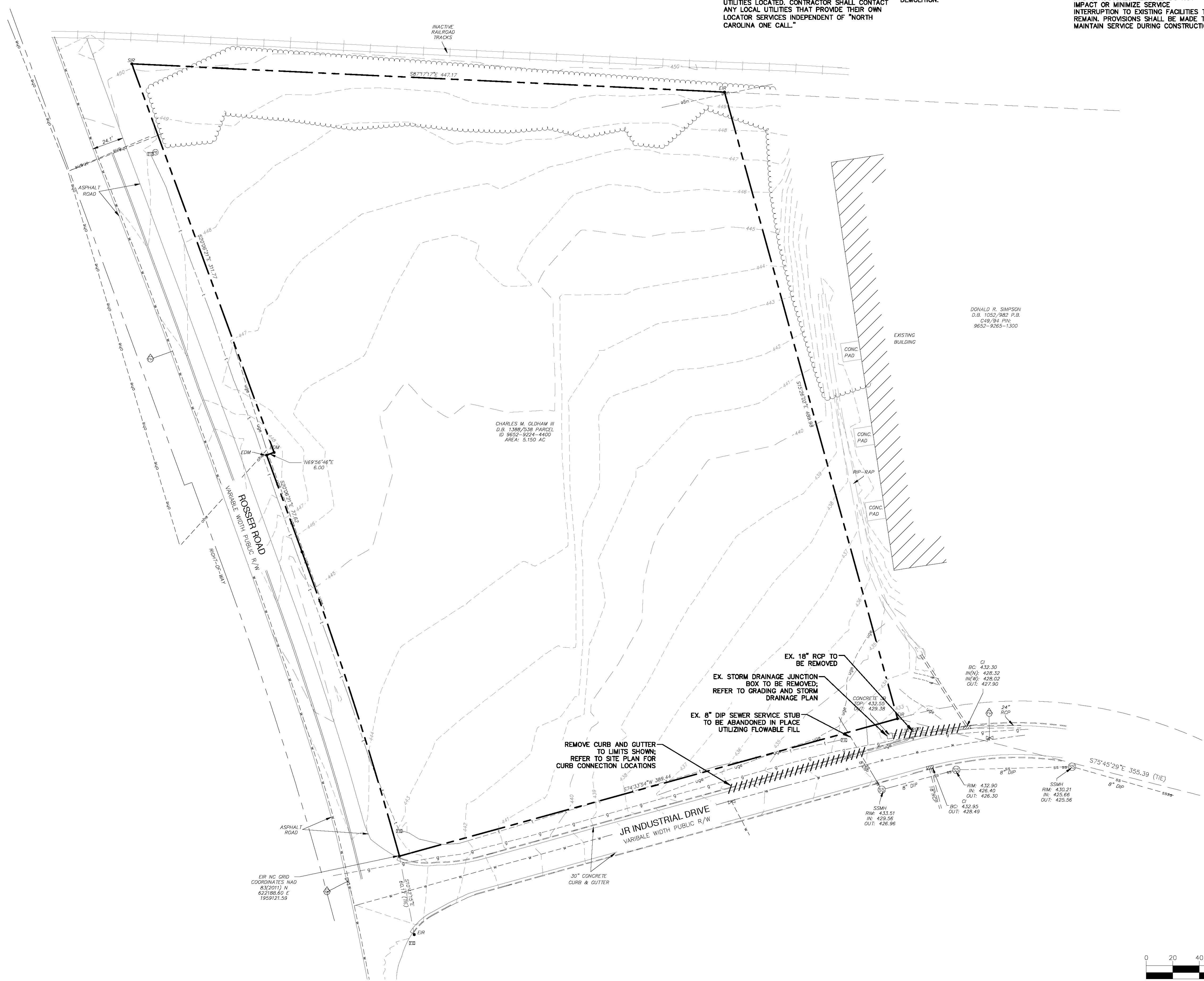
Triangle Surveyors

3715 University Drive
Durham, NC 27707-2646
(919) 490-2929
FAX (919) 490-6165
NC LICENSE C-0536

Date: 06/22/2022
Scale: 1"=40'
Job No: 22072.00
Revisions:

DEMOLITION NOTES:

1. EXISTING INFORMATION ON THIS PLAN WAS TAKEN FROM A SURVEY PREPARED BY:
TRIANGLE SURVEYORS
3715 UNIVERSITY DRIVE
DURHAM, NC 27707
(919)490-6165
2. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND SITE CONDITIONS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SEQUENCING OF DEMOLITION OR RELOCATION OF UTILITIES WITH APPLICABLE UTILITY COMPANY.
5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TEL: 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL."
6. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
7. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
8. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN.
9. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL JURISDICTIONAL CODES OR REQUIREMENTS.
10. TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO START OF DEMOLITION.
11. EROSION CONTROL PERMIT SHALL BE OBTAINED AND ONSITE PRIOR TO START OF DEMOLITION.
12. IF ANY ITEMS ARE DESIGNATED TO BE SALVAGED AND/OR RE-USED, THEY SHALL BE REMOVED BY THE CONTRACTOR AND PROVIDED TO THE OWNER. COORDINATE STORAGE LOCATION WITH OWNER'S REPRESENTATIVE.
13. WHERE UTILITIES "TO BE REMOVED" IMPACT THE FOOTPRINT OF THE NEW BUILDING, THE CONTRACTOR SHALL EXECUTE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF THE PIPE AND 1 FOOT BELOW. CLEAN SUITABLE SOIL SHALL BE UTILIZED FOR BACKFILL AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
14. DEMOLITION AND SUBSEQUENT CONSTRUCTION OF UTILITIES (WATER, SEWER, ETC.) SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT OR MINIMIZE SERVICE INTERRUPTION TO EXISTING FACILITIES TO REMAIN. PROVISIONS SHALL BE MADE TO MAINTAIN SERVICE DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES TO THE EXISTING DRIVEWAY, SIDEWALK, AND CURB AND GUTTER TO REMAIN AS A RESULT OF CONSTRUCTION ACTIVITY AND TRAFFIC. CONTRACTOR SHALL MAINTAIN PRE-CONSTRUCTION PHOTO DOCUMENTATION TO SHOW THAT NO DAMAGES OCCURRED.
16. ALL MATERIALS, UTILITIES, AND PAVEMENT THAT ARE NOT SCHEDULED TO BE DEMOLISHED AND ARE DAMAGED BY THE CONTRACTOR AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
17. WHERE UTILITIES ARE SHOWN "TO BE REMOVED," CONTRACTOR SHALL INCLUDE NECESSARY PLUG OR VALVES TO ENSURE UTILITY LINES TO REMAIN WILL CONTINUE TO BE IN SERVICE. COORDINATE NECESSARY SHUT DOWN AND REMOVAL WITH THE LOCAL JURISDICTION OR UTILITY OWNER.
18. CONTRACTOR TO HAVE ALL PHASE 1 EROSION CONTROL IN PLACE BEFORE SITE DEMOLITION OCCURS.



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555 Fayetteville St. 3rd floor
Raleigh, NC 27601
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nc firm no. P-0418 ec coa no. C-03044



08/12/2022

**Williams Realty
& Building Company, Inc.**

3111 Glenwood Ave.
Raleigh, NC 27612

**Rosser Rd Industrial
Construction Documents**

Demolition Plan

2401 Rosser Rd, Sanford, NC 27332

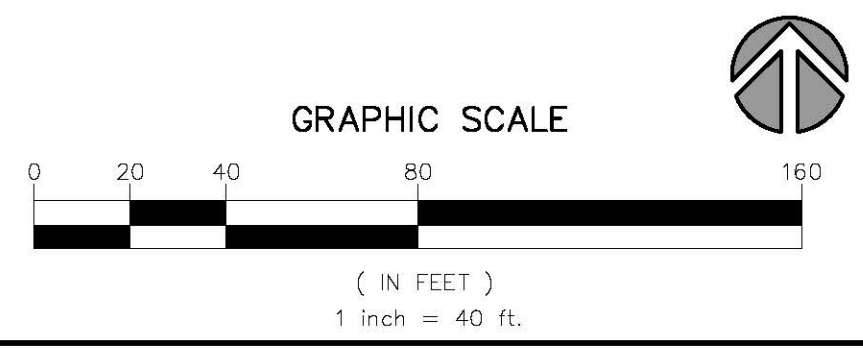
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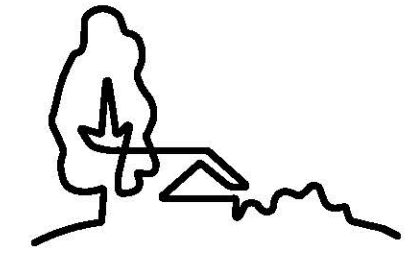
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**BEFORE YOU DIG
CALL 811 OR 1-800-632-4949
N.C. ONE-CALL CENTER
IT'S THE LAW!**



IF ANY DISCREPANCY IN ELEVATION, AS NOTED ON THE GRADING PLAN, OCCURS ON SITE DURING CONSTRUCTION THE GENERAL CONTRACTOR IS TO CONTACT THE LANDSCAPE ARCHITECT AND CIVIL ENGINEER IMMEDIATELY.



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08/12/2022

Williams Realty & Building Company, Inc.

3111 Glenwood Ave.
Raleigh, NC 27612

Rosser Rd Industrial
Construction Documents
Grading and Storm Drainage Plan
2401 Rosser Rd, Sanford, NC 27332

IMPERVIOUS DATA:

GROSS SITE AREA:	± 226,512 SF (5.20 AC)
DISTURBED AREA:	± 228,186 SF (5.24 AC)
EXISTING IMPERVIOUS:	± 0 SF (0.0 AC)
PROPOSED IMPERVIOUS:	± 145,801 SF (3.35 AC)

SITE GRADING NOTES:

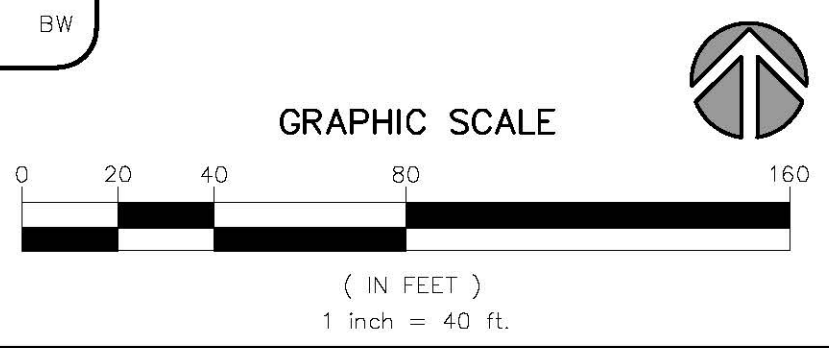
- CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30 BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5 LANDINGS AT THE BOTTOM OF TOP OF RAMP.
- ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
- INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
- MAXIMUM SLOPE ACROSS ANY HANDICAPPED PARKING SPACE AND AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION.
- PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.
- CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
- CONTRACTOR SHALL SLOPE GRADES TO ASSURE POSITIVE STORMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND WALLS.

GRADING LEGEND:

FINISHED FLOOR ELEVATION	FFE
FINISHED GRADE	FG
TOP OF WALL	TW
BOTTOM OF WALL	BW



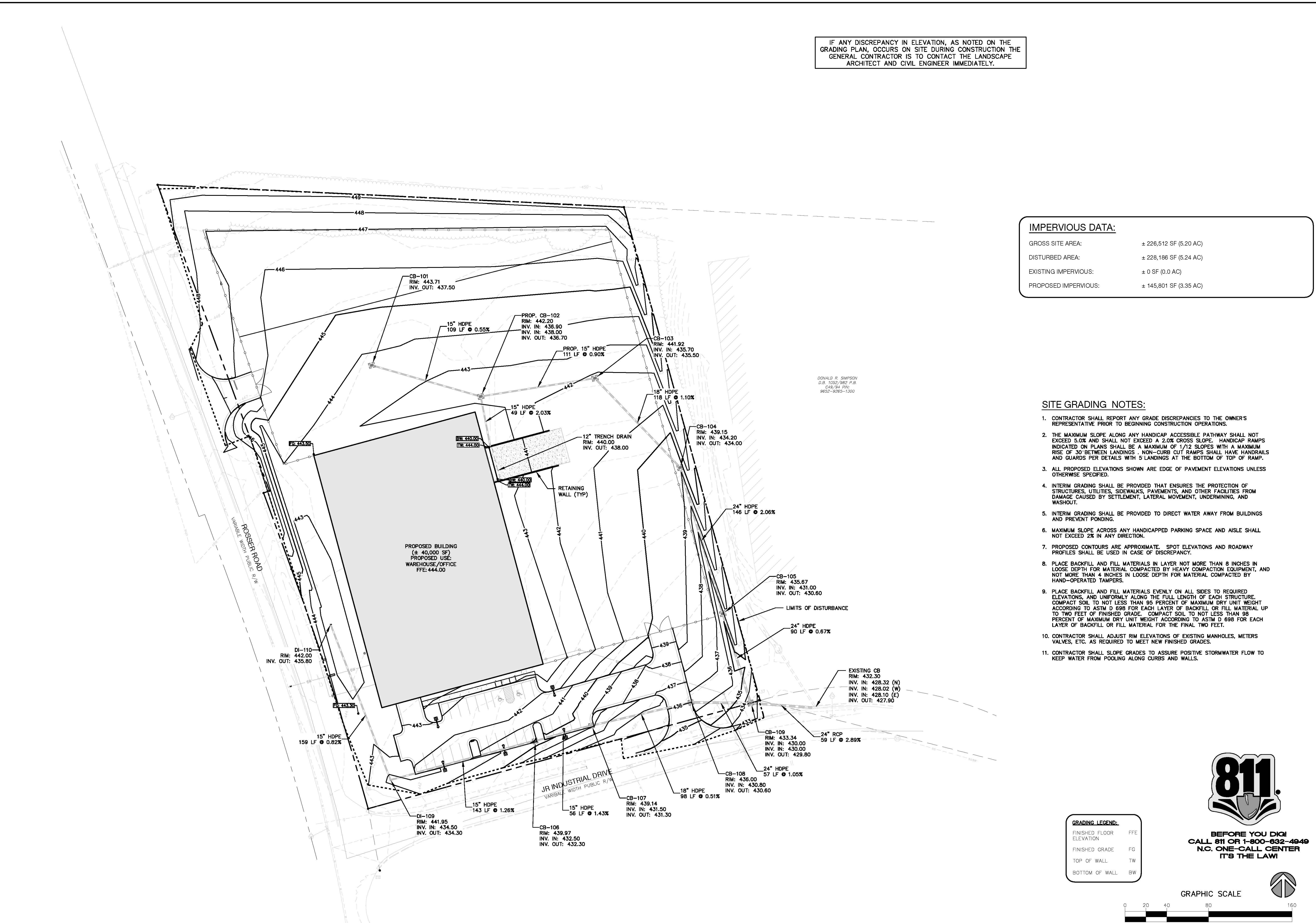
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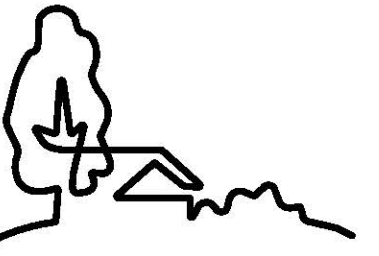


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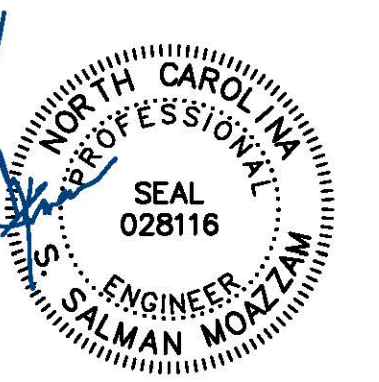
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08/12/2022

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Rosser Rd Industrial Construction Documents

Utility Plan

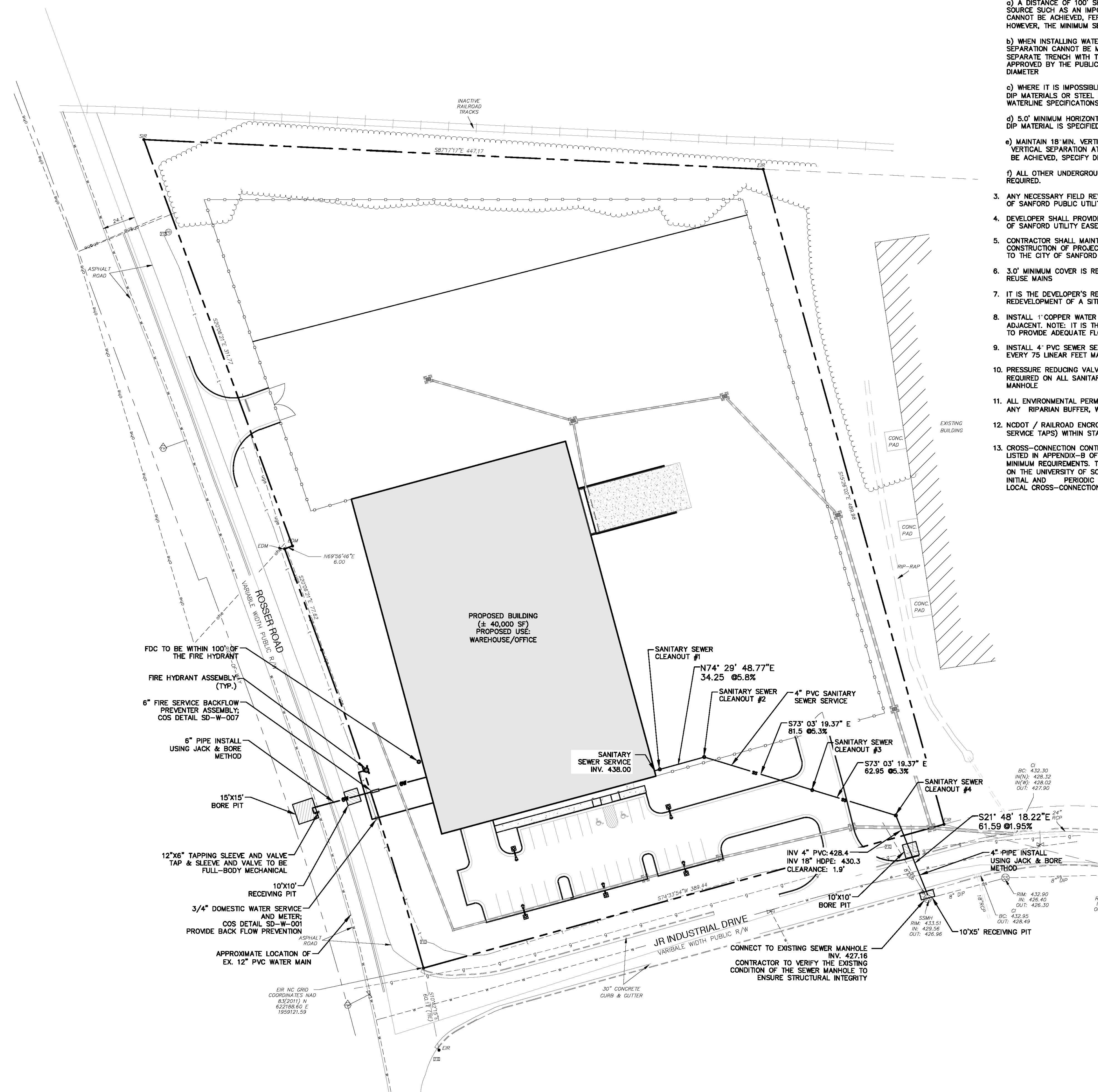
2401 Rosser Rd., Sanford, NC 27332

STANDARD UTILITY NOTES (AS APPLICABLE):

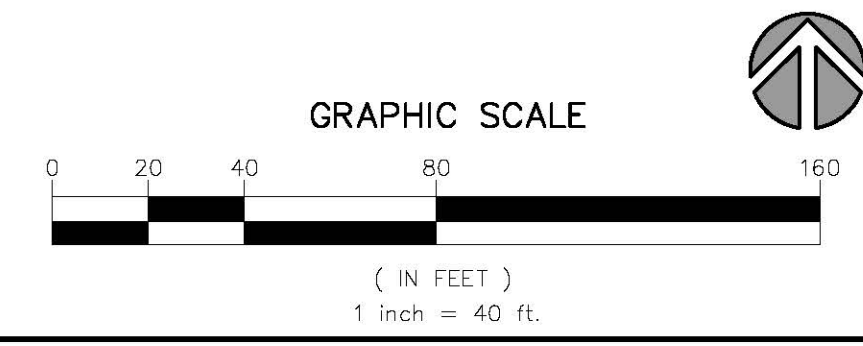
- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF SANFORD DESIGN STANDARDS, DETAILS & SPECIFICATIONS
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR 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 AND 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 SANITARY 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 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE GRADE HAVING 6" MIN. CLEARANCE
 - 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 SANFORD PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION
- DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITH AN EXISTING CITY OF SANFORD UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE 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 SANFORD PUBLIC UTILITIES DEPARTMENT
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT.
- INSTALL 1" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE
- INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & 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 NCDWM, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION
- 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.

FIRE HYDRANT TEST (PERFORMED AND PROVIDED BY THE CITY OF SANFORD)	
HYDRANT LOCATION: 905 JR INDUSTRIAL DRIVE	
TEST RESULTS:	
DATE PERFORMED:	5/12/2022
STATIC PRESSURE:	76 psi
RESIDUAL PRESSURE:	68 psi
FLOW PSI:	60 PSI
FLOW GPM:	1300 gpm

SEWER FLOW DEMAND (FLOW FROM NCDEQ TITLE 15 A SUBCHAPTER 21 RULES)	
AVERAGE FLOW RATE (GPM):	0.12
PEAK FLOW RATE (GPM):	0.30
AVERAGE DAILY FLOW (GPD):	15 EMPLOYEES x 25 GAL = 375 GPD
PEAK DISCHARGE:	2.5 x 375 = 937.5 GPD



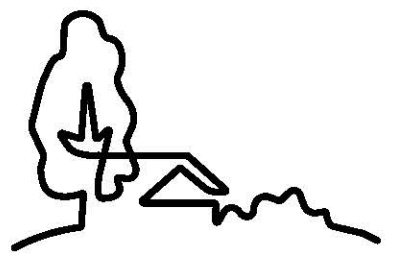
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NO. DATE: BY: REVISIONS:

Project No: 22-RDU-026
Date: 08.12.2022
Designed By: UDP
Checked By: BAR
Sheet No:

C-6.0



**URBAN
DESIGN
PARTNERS**

555 Fayetteville St. 3rd floor
Raleigh, NC 27601
P: 919.275.5002
urbanpartners.com

nc firm no: P-0418 sc cos no: C-03044



08/12/2022

Williams Realty
& Building Company, Inc.

3111 Glenwood Ave.
Raleigh, NC 27612

Rosser Rd Industrial Construction Documents

Erosion Control - Phase 1

2401 Rosser Rd, Sanford, NC 27332

NO. DATE BY: REVISIONS:

Project No: 22-RDU-026
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GENERAL NOTES:

- INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AND/OR INCREASE MAINTENANCE FREQUENCY WHERE APPROVED MEASURES FAIL TO PREVENT ACCELERATED EROSION, OFF SITE SEDIMENTATION, OR REPETITIVE NON-COMPLIANCE ISSUES.
- MODIFICATIONS TO THE APPROVED AND PERMITTED PLANS SHALL BE APPROVED BY STORMWATER INSPECTIONS PRIOR TO REMOVAL OR INSTALLATION. CONTACT THE STORMWATER INSPECTIONS REGIONAL COORDINATOR AT (919) 279-6456 TO REQUEST AN INSPECTION AND OBTAIN A STORMWATER INSPECTOR'S SIGN-OFF ON THE PLANS OR APPROVED FIELD REVISION.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/ REPLACED. SILT FENCE CANNOT HAVE HOLES OR TEARS.
- ONCE GRADING IS COMPLETE AND THE SITE IS STABILIZED, CALL THE STORMWATER INSPECTIONS REGIONAL COORDINATOR AT (919) 279-6456 TO REQUEST AN INSPECTION AND OBTAIN APPROVAL TO REMOVE TEMPORARY MEASURES. DO NOT REMOVE TEMPORARY MEASURES WITHOUT PRIOR STORMWATER INSPECTOR APPROVAL.
- ONCE GRADING IS COMPLETE, TEMPORARY MEASURES ARE REMOVED, THE SITE IS STABILIZED, AND ALL PERMANENT STORMWATER BMPs HAVE BEEN CERTIFIED AND APPROVED, CALL THE RAPID RESPONSE NUMBER (919) 857-4412 TO SCHEDULE A STORMWATER FINAL INSPECTION.
- ONCE THE STORMWATER FINAL INSPECTION IS APPROVED, CLOSE THE GRADING PERMIT AND OBTAIN A CERTIFICATE OF COMPLETION FROM THE STORMWATER INSPECTOR.
- INSPECTOR REFERS TO CITY OF RALEIGH LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
- CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL METHODS DURING CONSTRUCTION, AND THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
- THE NEW NC001 PERMIT REQUIREMENTS WILL NEED TO BE FOLLOWED WHEN SUBMITTING FOR EROSION CONTROL APPROVAL.
- THE NG01 PERMIT WILL NEED TO BE APPLIED FOR THROUGH THE NEW PORTAL.
- THE CERTIFICATE OF COVERAGE WILL NEED TO BE ACQUIRED PRIOR TO WAKE COUNTY SETTING UP THE PRE-CONSTRUCTION MEETING AND ISSUING THE GRADING PERMIT.
- WAKE COUNTY MUST GRANT PERMISSION TO CONVERT SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.
- STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET AND SLOPES SHALL BE 2:1 OR FLATTER.
- OFF-SITE SPOIL OR BORROW AREA MUST BE IN COMPLIANCE WITH WAKE COUNTY UDD AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS SPECIFIED IN SECTION 14-19-2 IN THE WAKE COUNTY UDD.
- SEEDING OR COVERING STOCKPILES WITH R MULCH IS REQUIRED. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER RUNNING UNDERNEATH THE PLASTIC.
- IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE, THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY OF THAT STOCKPILE.
- THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
- ESTABLISH AND MAINTAIN VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

CONSTRUCTION SEQUENCE:

- SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DITCH DIVERSIONS, SILT FENCE, SILT FENCE OUTLETS, SEDIMENT BASINS, ETC. AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY NECESSARY TO INSTALL DEVICES. SEED TEMPORARY DIVERSION DITCHES AND BASINS IMMEDIATELY AFTER CONSTRUCTION. NO SITE DEMOLITION IS TO OCCUR PRIOR TO INSTALL OF EROSION CONTROL MEASURES.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLETION.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER AND PROTECT INLETS. BEGIN CONSTRUCTION, BUILDING, ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- CONTACT NCDEQ-DEMRL CONTACT PERSON AT (919) 791-4200 AT LEAST 10 DAYS PRIOR TO DEWATERING ACTIVITY.
- AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMRL YOU MAY REMOVE BASIN AND TEMPORARY DIVERSION DITCHES. FINE GRADE IN PREPARATION FOR SEEDING.
- PERFORM SEEDBED PREPARATION, SEED, MULCH, AND ANCHOR ANY BARE AREA IMMEDIATELY.
- INSTALL VELOCITY DISSIPATORS AS REQUIRED ON THE EROSION CONTROL PLAN.
- WHEN VEGETATION HAS BEEN ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

MAINTENANCE PLAN:

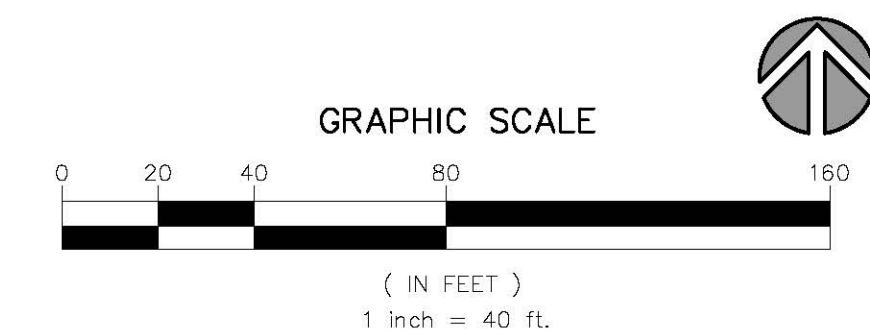
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING MORE THAN 0.5" RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND INLET PROTECTION DEVICES WHEN STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FT DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
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EROSION CONTROL LEGEND:

- CONSTRUCTION ENTRANCE
- DENUDED LIMIT
- SILT FENCE
- CATCH BASIN INLET PROTECTION
- STONE SILT FENCE OUTLET
- EXISTING STORM DRAINAGE
- EXISTING WATER LINE

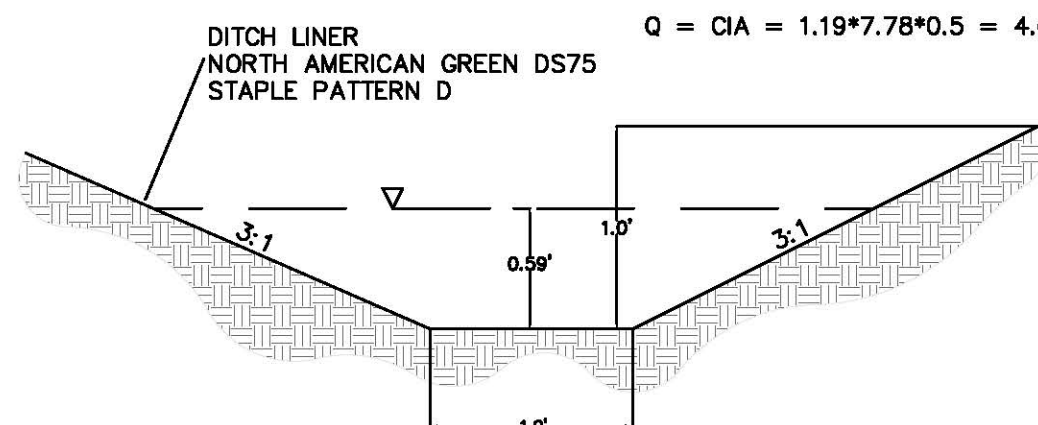


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NOTE:
DITCH LINER SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

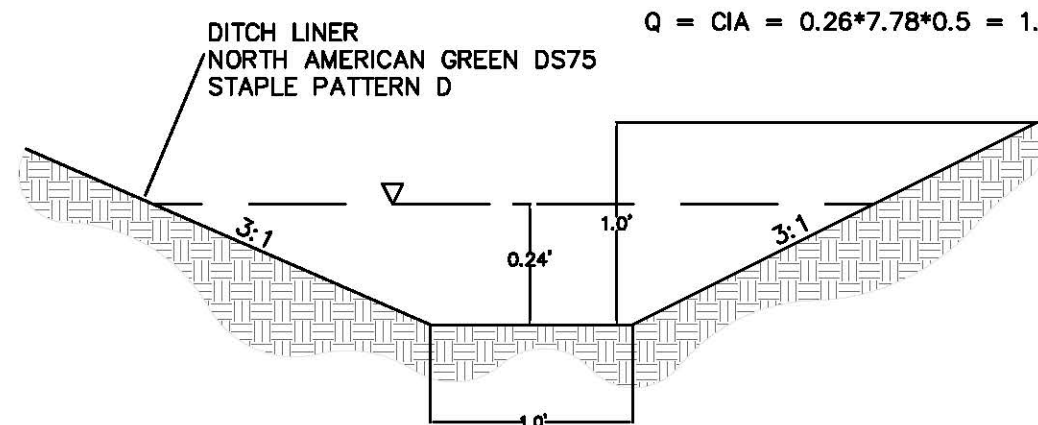
CALCS:
A: 1.19 AC
H0: 7.78 IN/HR
C: 0.5
Q = CIA = 1.19*7.78*0.5 = 4.62 CFS



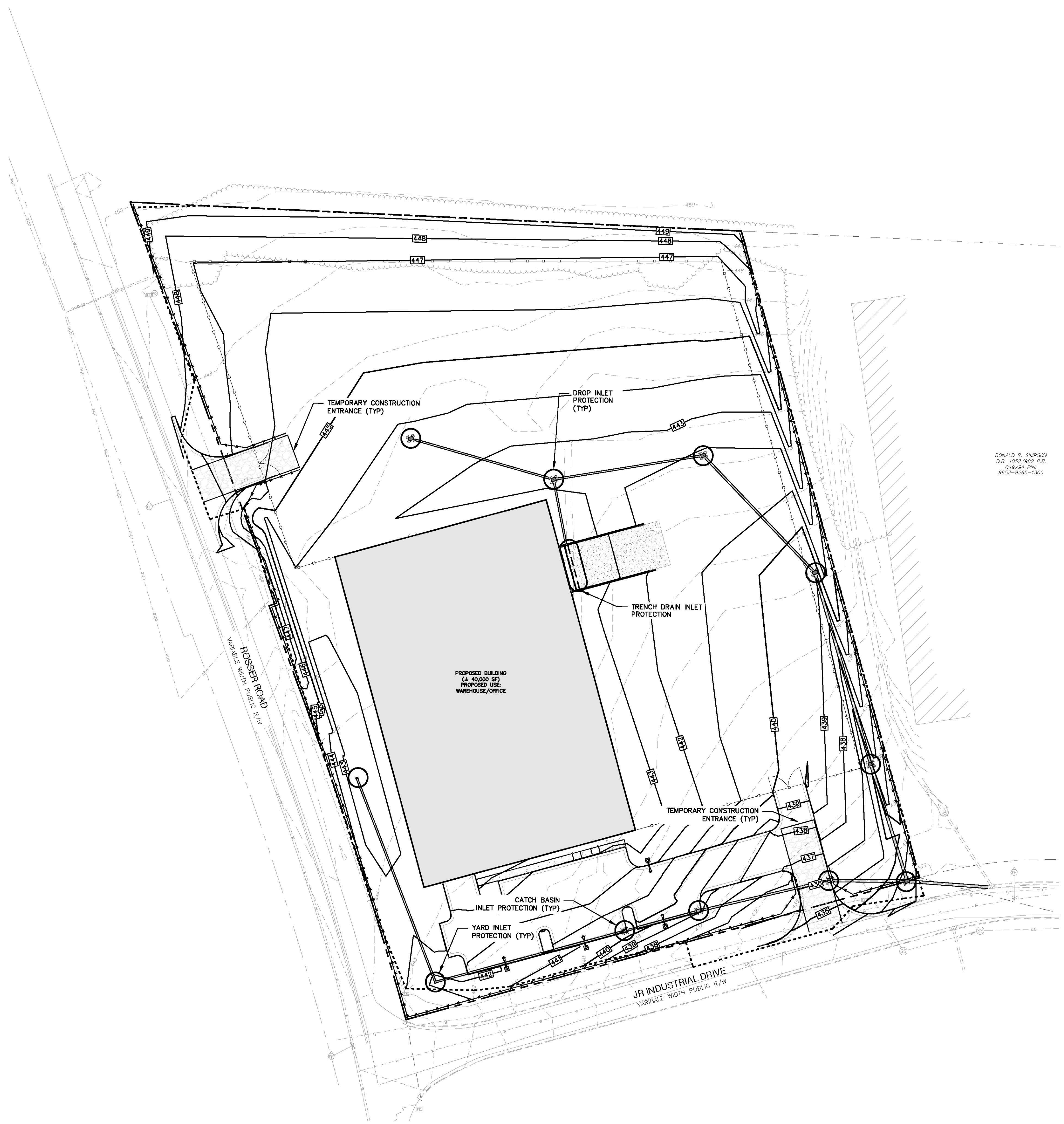
TEMP. DIVERSION DITCH #1 DETAIL

NOTE:
DITCH LINER SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

CALCS:
A: 0.26 AC
H0: 7.78 IN/HR
C: 0.5
Q = CIA = 0.26*7.78*0.5 = 1.01 CFS



TEMP. DIVERSION DITCH #2 DETAIL



DONALD B. SIMPSON
 D.B. 1002 982 P.B.
 C49/94 P.P.
 9852-9265-1300

GENERAL NOTES:

1. INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES AND/ OR INCREASE MAINTENANCE FREQUENCY WHERE APPROVED MEASURES FAIL TO PREVENT ACCELERATED EROSION, OFF SITE SEDIMENTATION, OR REPETITIVE NON-COMPLIANCE ISSUES.
2. MODIFICATIONS TO THE APPROVED AND PERMITTED PLANS SHALL BE APPROVED BY STORMWATER INSPECTIONS PRIOR TO REMOVAL OR INSTALLATION. CONTACT THE STORMWATER INSPECTIONS REGIONAL COORDINATOR AT (919) 278-6459 TO REQUEST AN INSPECTION AND OBTAIN A STORMWATER INSPECTOR'S SIGN-OFF ON THE PLANS OR APPROVED FIELD REVISION.
3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. SILT FENCE, INLET PROTECTION AND OTHER SIMILAR MEASURES MUST BE CLEANED OUT BEFORE THEY ARE HALF FULL. CLOGGED STONE FILTERS MUST BE REFRESHED/ REPLACED. SILT FENCE CANNOT HAVE HOLES OR TEARS.
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10. THE NEW NCG01 PERMIT REQUIREMENTS WILL NEED TO BE FOLLOWED WHEN SUBMITTING FOR EROSION CONTROL APPROVAL.
11. THE NCG01 PERMIT ILL NEED TO BE APPLIED FOR THROUGH THE NEW PORTAL.
12. THE CERTIFICATE OF COVERAGE WILL NEED TO BE ACQUIRED PRIOR TO WAKE COUNTY SETTING UP THE PRE-CONSTRUCTION MEETING AND ISSUING THE GRADING PERMIT.
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15. OFF-SITE SPOIL OR BORROW AREA MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS SPECIFIED IN SECTION 14-19-2 IN THE WAKE COUNTY UDO.
16. SEEDING OR COVERING STOCKPILES WITH R MULCH IS REQUIRED. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER RUNNING UNDERNEATH THE PLASTIC.
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6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
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8. CONTACT NCDCE-DEMLR CONTACT PERSON AT (919) 791-4200 AT LEAST 10 DAYS PRIOR TO DEWATERING ACTIVITY.
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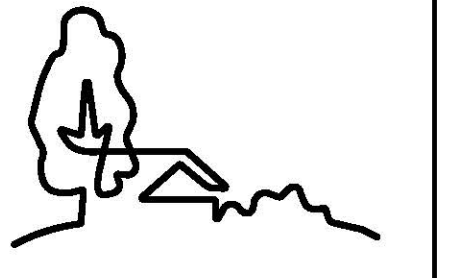
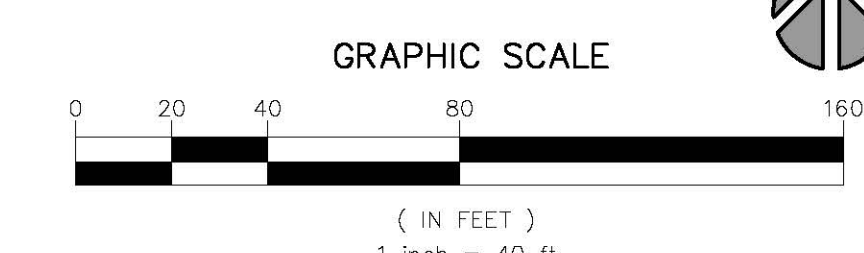
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EROSION CONTROL LEGEND:

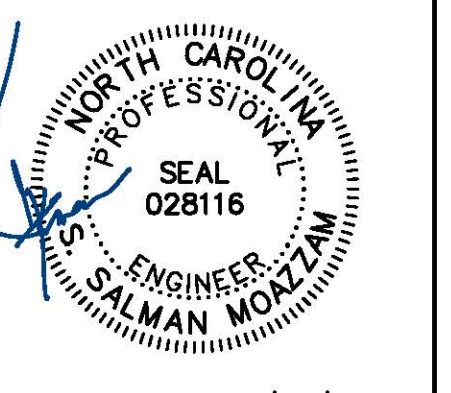
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 Raleigh, NC 27601
 P: 919-275-5002
 urbandesignpartners.com
 nc firm no: P-0418 ec.co.no: C-03044



Williams Realty & Building Company, Inc.
 3111 Glenwood Ave.
 Raleigh, NC 27612

Rosser Rd Industrial Construction Documents
Erosion Control - Phase 2
 2401 Rosser Rd., Sanford, NC 27332

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 Sheet No:
C-7.1

ROLLMAX™
ROLLED EROSION CONTROL

Erosion Control Blanket
EroNet™ SC150® Erosion Control Blanket

DESCRIPTION
The extended-term double net erosion control blanket shall be a machine-produced mat of 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 24 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a heavy-weight photodegradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 in (1.59 x 1.59 cm) mesh, and on the bottom side with a light-weight photodegradable polypropylene netting with an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The SC150 shall meet Type 3.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.35 in (8.89 mm)
Resiliency	ECTC Guidelines	75%
Water Absorbency	ASTM D1117	342%
Mass/Unit Area	ASTM D6475	7.87 oz/sy (227.6 g/sqm)
Swell	ECTC Guidelines	30%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	1.11 oz-in
Light Penetration	ASTM D6557	6.2%
Tensile Strength - MD	ASTM D6818	362.4 lbs/ft (5.37 kN/m)
Elongation - MD	ASTM D6818	29.4%
Tensile Strength - TD	ASTM D6818	136.8 lbs/ft (2.03 kN/m)
Elongation - TD	ASTM D6818	27.6%
Biomass Improvement	ASTM D7322	481%

Design Permissible Shear Stress

Unvegetated Shear Stress	2.00 psf (96 Pa)
Unvegetated Velocity	8.0 fps (2.44 m/s)

Slope Design Data: C Factors

Slope Length (L)	Slope Gradients (S)
Slope Length (L) ≤ 31	3:1 - 2:1 ≥ 2:1
≤ 20 ft (6 m)	0.001 0.048 0.100
20-50 ft	0.051 0.079 0.145
≥ 50 ft (15.2 m)	0.10 0.110 0.190

Roughness Coefficients - Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.050
0.50 - 2.0 ft	0.050-0.018
≥ 2.0 ft (0.60 m)	0.018

Material Content

Matrix	70% Straw Fiber 0.35 lbs/sq yd (0.79 kg/sqm)	30% Coconut Fiber 0.35 lbs/sq yd (0.88 kg/sqm)
Netting	Top: Heavy-weight photodegradable with UV additives 3 lbs/1000 sq ft (1.47 kg/100 sqm)	Bottom: light-weight photodegradable 1.5 lb/1000 sq ft (0.73 kg/100 sqm)
Thread	Degradable	

Standard Roll Sizes

Width	6.67 ft (2.03 m)	8 ft (2.4 m)	16.0 ft (4.87 m)
Length	108 ft (32.92 m)	112 ft (34.4 m)	108 ft (32.92 m)
Weight ± 10%	44 lbs (19.95 kg)	55 lbs (24.95 kg)	105.6 lbs (47.9 kg)
Area	80 sq yd (66.9 sqm)	100 sq yd (83.61 sqm)	192 sq yd (165.6 sqm)

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EC-RMX-MPDS-SC150-1.19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

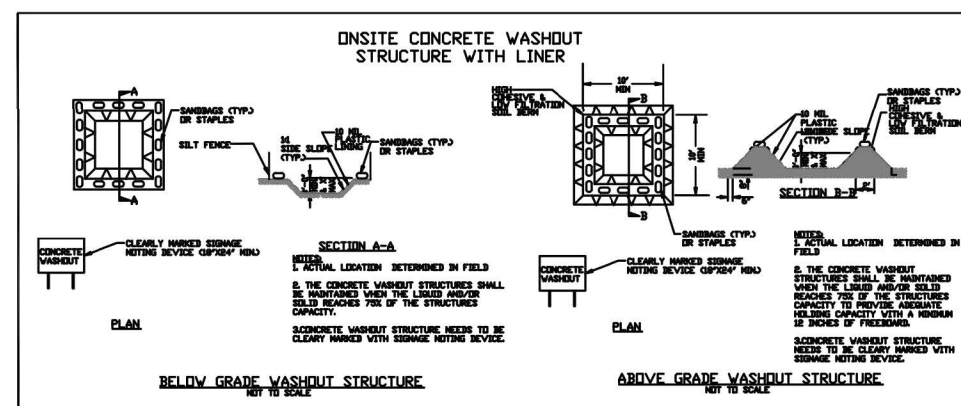
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide a minimum of portable toilet behind silt fence or place on a gravel pad and surround with sand bags and other erosion control measures.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating units.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.



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08/12/2022

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Rosser Rd Industrial Construction Documents
Erosion Control Details
2401 Rosser Rd, Sanford, NC 27332

NO. DATE: BY: REVISIONS:

Project No: 22-RDU-026
Date: 08.12.2022
Designed By: UDP
Checked By: BAR
Sheet No:

C-8.3

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION
Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurement for those unattended days (i.e. the will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outlets (SDCO)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outlets inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Action taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and photos. 3. An explanation as to the actions taken to control future sedimentation.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: a. Description, evidence and date of corrective actions taken, and photos. b. Record of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (3)(a) of this permit. 2. The phase of grading (initialization or preparation E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or reestablishment, permanent ground cover). 3. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless it is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&S plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sized, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&S Plan Documentation
The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S plan.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
In addition to the E&S plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically acquired records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years
All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported
Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.
(b) Oil spills and release of hazardous substances per Item 1(b)(1)-(3) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(j)(7)]	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6)]. Division staff may waive the requirement for a written report on a case-by-case basis.

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CHANNEL INSTALLATION

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEE MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP'S.
- ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES AND STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4"-6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP'S.
- FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5 CM - 12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.
- IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30-40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF CHANNEL.
- THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

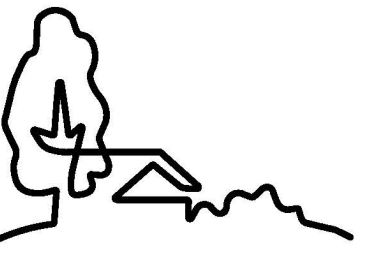
CRITICAL POINTS:

- OVERLAPS AND SEAMS
- PROJECTED WATER LINE
- CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

CHANNEL INSTALLATION

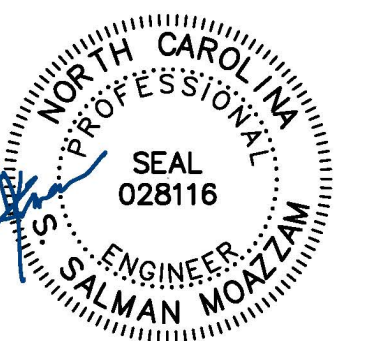
NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19



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Rosser Rd Industrial Construction Documents

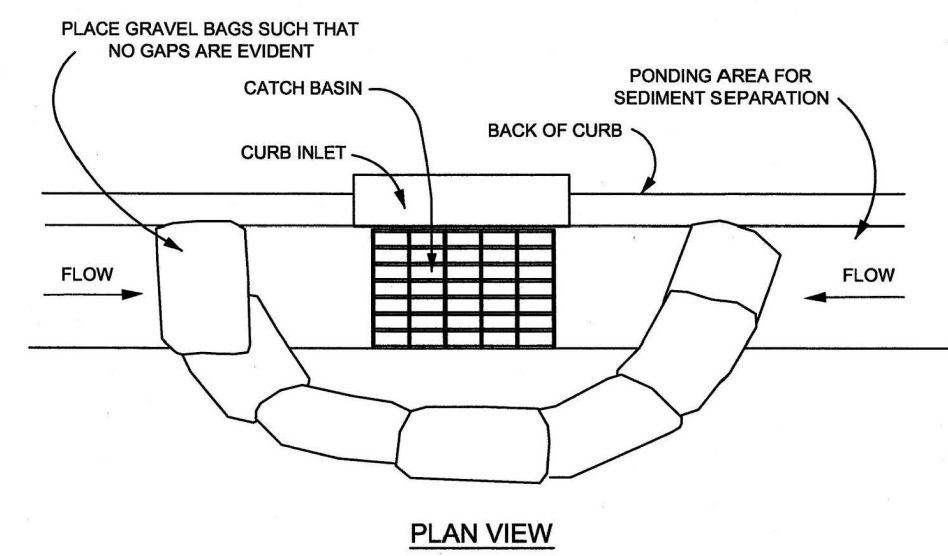
Erosion Control Details

2401 Rosser Rd, Sanford, NC 27332

NO. DATE: BY: REVISIONS:

Project No: 22-RDU-026
Date: 08.12.2022
Designed By: UDP
Checked By: BAR
Sheet No:

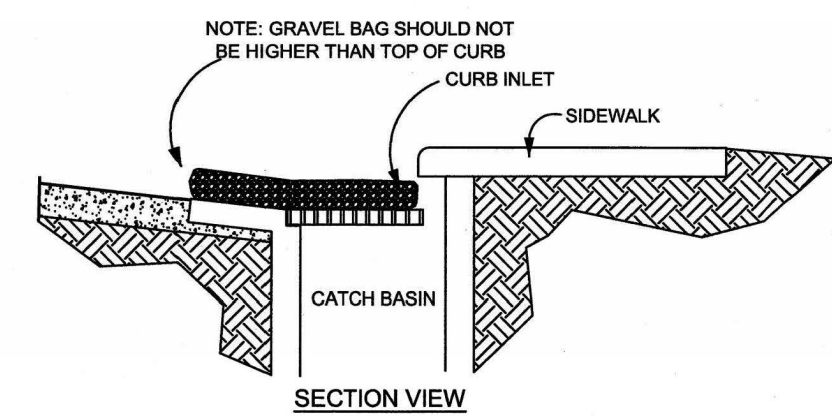
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PLAN VIEW

NOTES:

1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 1/2 INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, NEVER BLOCK THE CURB INLET.

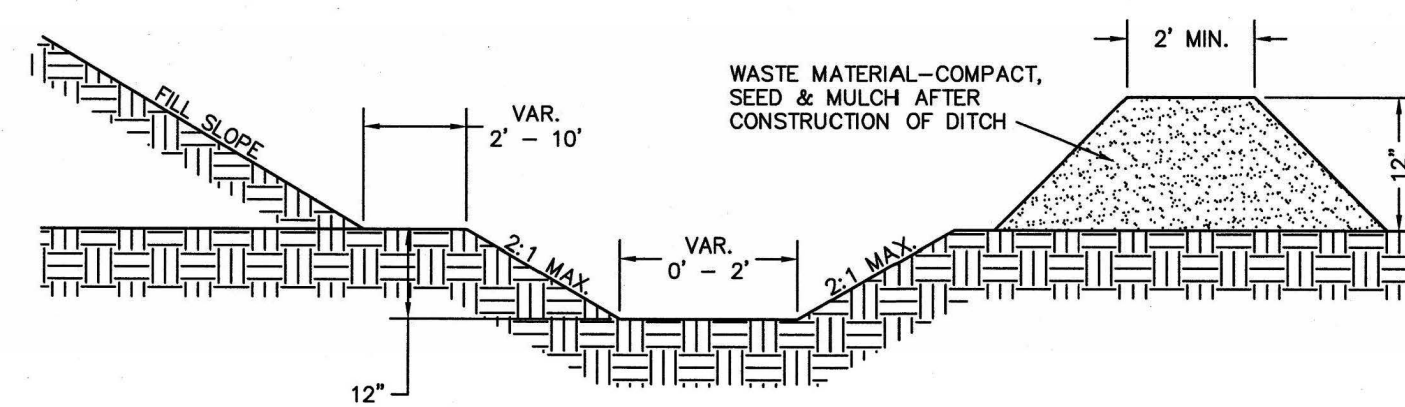


SECTION VIEW

GRAVEL BAG CURB INLET PROTECTION

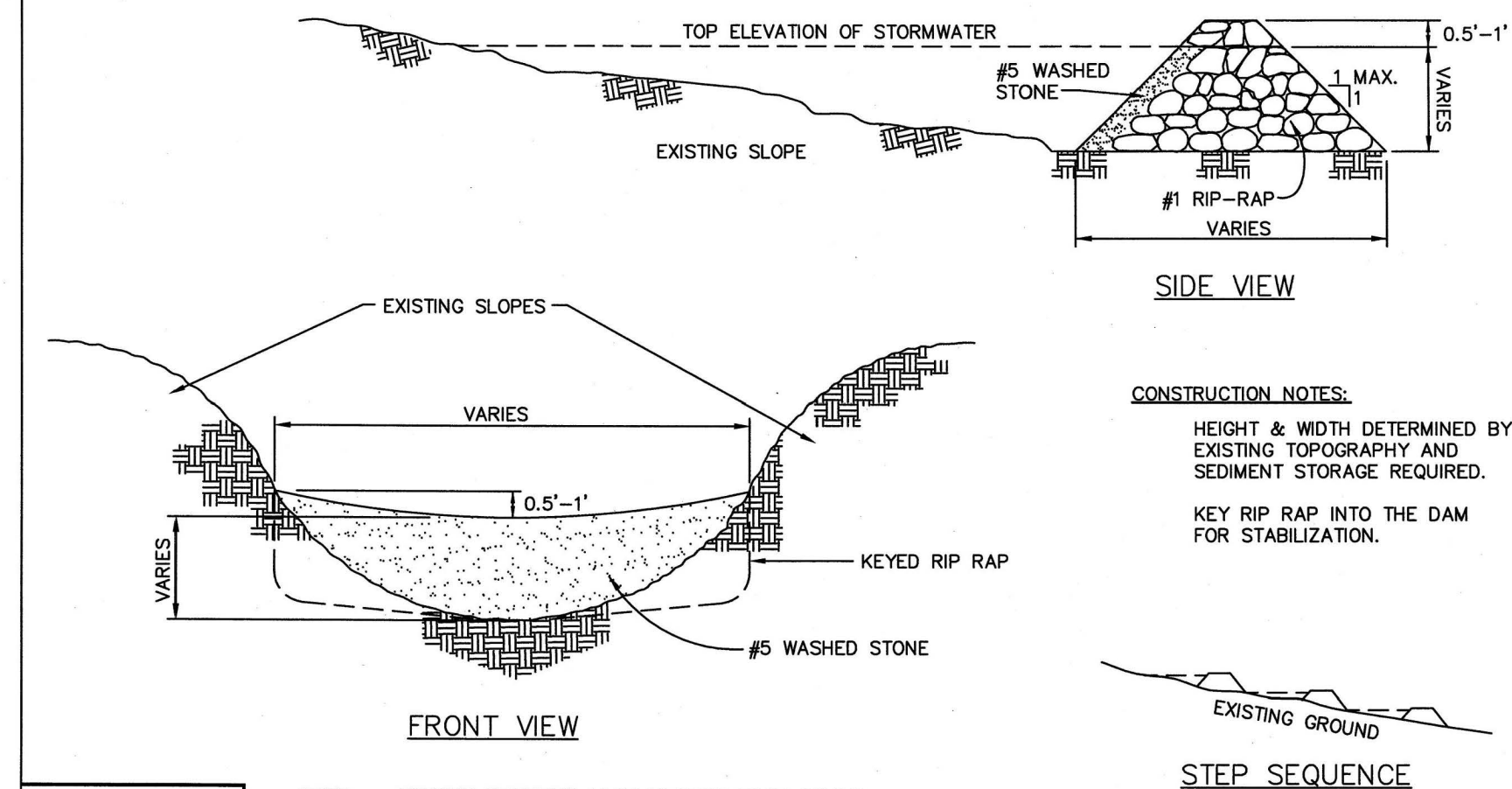
NOTES:

1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.



CROSS SECTIONAL VIEW

TEMPORARY DIVERSION DITCH



SIDE VIEW

FRONT VIEW

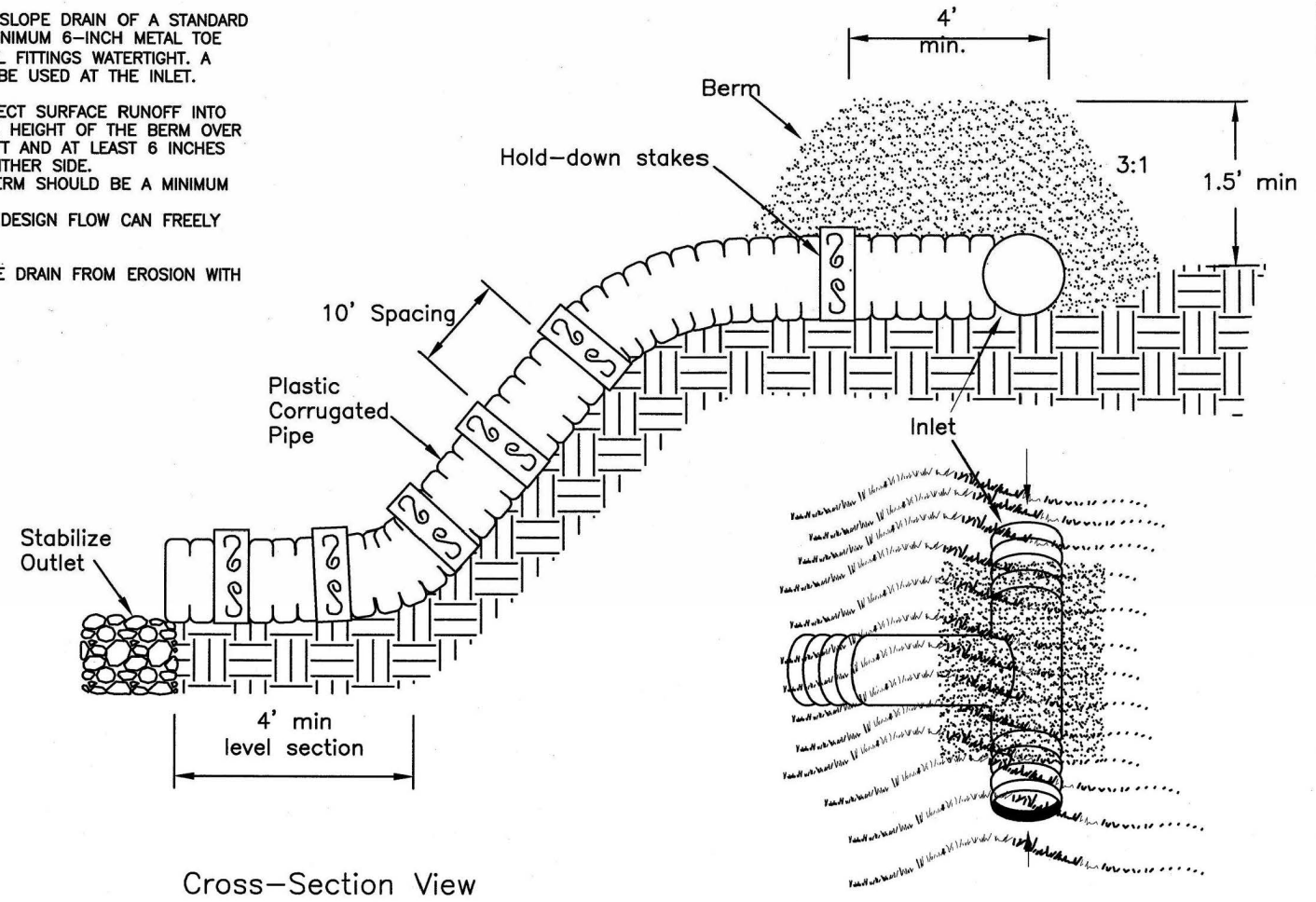
STEP SEQUENCE

NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

CHECK DAM

NOTES:

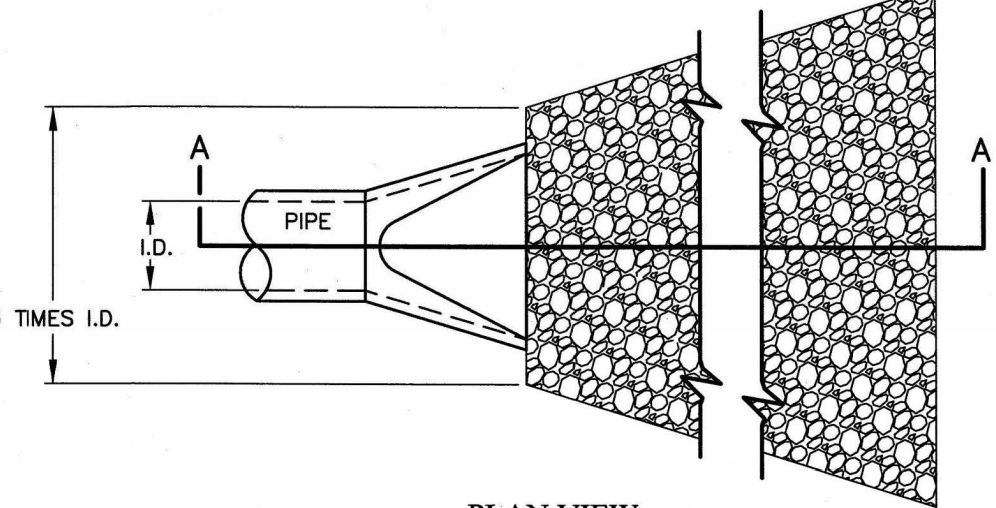
1. CONSTRUCT THE ENTRANCE TO THE SLOPE DRAIN OF A STANDARD FLARED-END SECTION OF PIPE WITH A MINIMUM 8-INCH METAL TOE PLATE (CROSS-SECTION VIEW). MAKE ALL FITTINGS WATER-TIGHT. A STANDARD T-SECTION FITTING MAY ALSO BE USED AT THE INLET.
2. USE AN EARTHEN DIVERSION TO DIRECT SURFACE RUNOFF INTO THE TEMPORARY SLOPE DRAIN. MAKE THE HEIGHT OF THE BERM OVER THE DRAIN CONDUIT A MINIMUM OF 1.5 FT AND AT LEAST 6 INCHES HIGHER THAN THE ADJACENT BERM ON EITHER SIDE. THE LOWEST POINT OF THE DIVERSION BERM SHOULD BE A MINIMUM OF 1 FT ABOVE THE TOP OF THE DRAIN SO THAT DESIGN FLOW CAN FREELY ENTER THE PIPE.
3. PROTECT THE OUTLET OF THE SLOPE DRAIN FROM EROSION WITH RIPRAP DISSIPATOR.



Cross-Section View

Plan View
Standard T-section

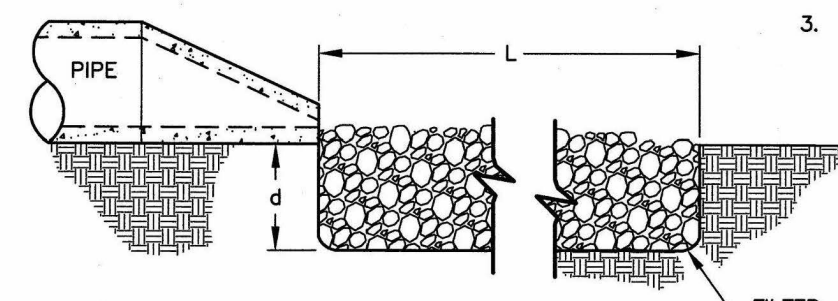
TEMPORARY SLOPE DRAIN



PLAN VIEW

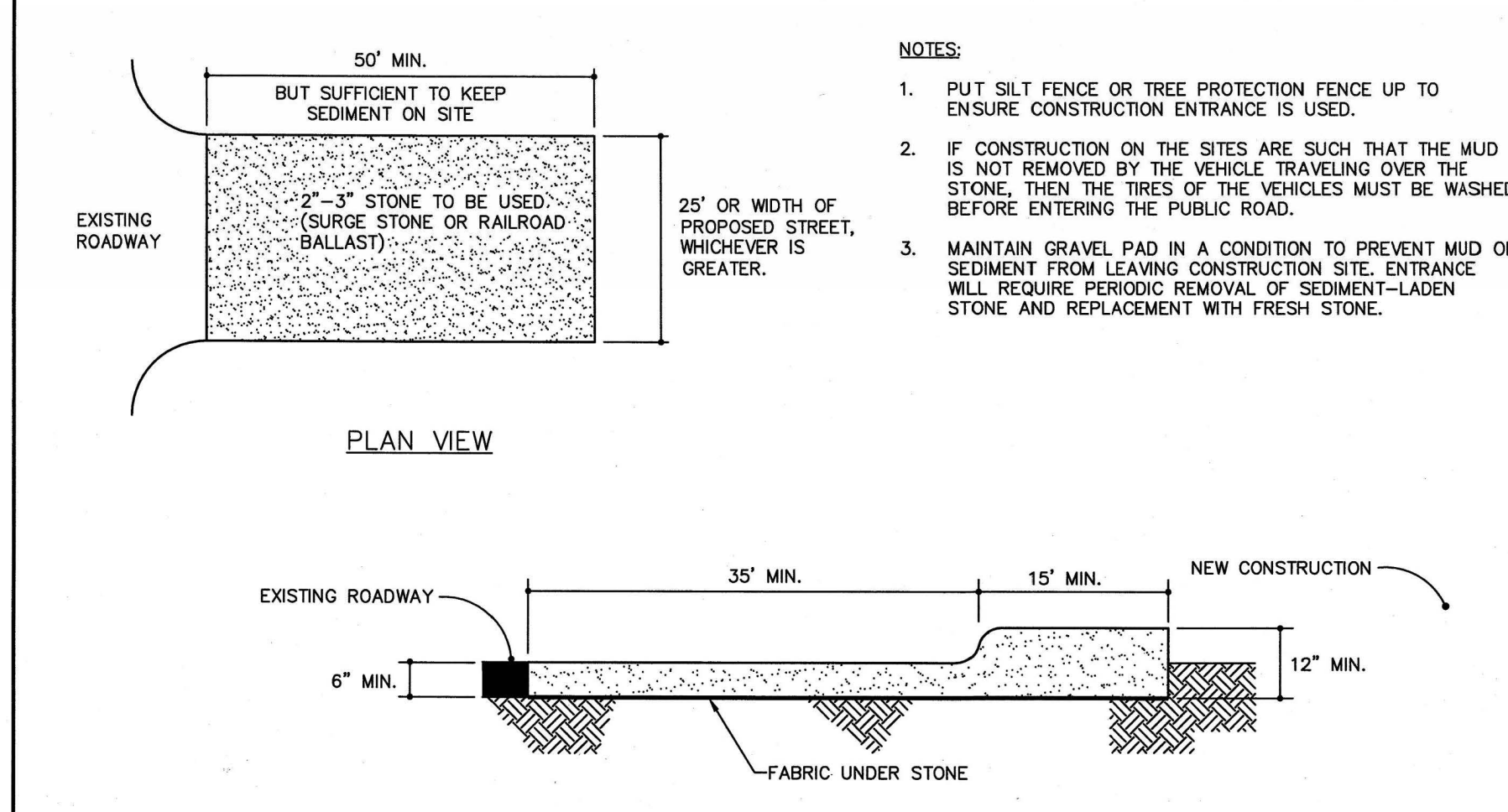
NOTES:

1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.



SECTION 'A-A'

PIPE OUTLET TO FLAT AREA
NO WELL-DEFINED CHANNEL



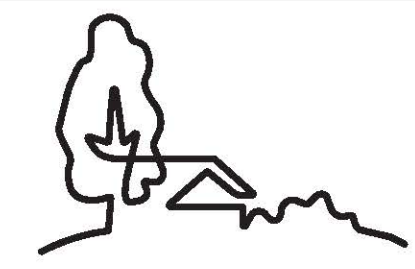
PLAN VIEW

CROSS SECTION

CONSTRUCTION ENTRANCE

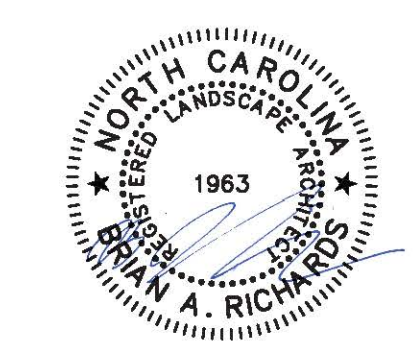
NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.



URBAN DESIGN PARTNERS

555 Fayetteville St. 3rd floor
Raleigh, NC 27601
P: 919.276.5002
urbandesignpartners.com
nc firm no. P-0418 sc coa no. C-03044



08/12/2022

Williams Realty & Building Company, Inc.

3111 Glenwood Ave.
Raleigh, NC 27612

Rosser Rd Industrial Construction Documents
Landscape Plan
2401 Rosser Rd., Sanford, NC 27332

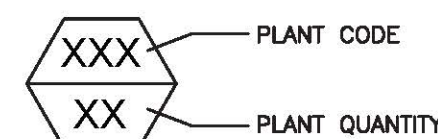
NO. DATE: BY: REVISIONS:

Project No: 22-RDU-026
Date: 08.12.2022
Designed By: UDP
Checked By: BAR
Sheet No:

LS-1.0

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	REMARKS
	CC	18	CUPRESSUS ARIZONICA 'CAROLINA SAPPHIRE' / CAROLINA SAPPHIRE CYPRESS	B & B	2" CAL	8' MIN	6 POINTS
	NS	17	NYSSA SYLVATICA / TUPELO	B & B	2" CAL	8'-10' HT	12 POINTS
	QP	16	QUERCUS PHELLOS / WILLOW OAK	B & B	2" CAL	8' HT	12 POINTS
	ZG	4	ZELKOVA SERRATA 'GREEN VASE' / GREEN VASE SAWLEAF ZELKOVA	B & B	2" CAL	8' HT	12 POINTS
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	MIN HEIGHT	MIN WIDTH	REMARKS
	IS	171	ILEX GLABRA 'SHAMROCK' / SHAMROCK INKBERRY HOLLY	5 GAL	24"		2 POINTS
	RF	55	RHODODENDRON INDICUM 'FORMOSA' / FORMOSA INDICA AZALEA	5 GAL	3'		3 POINTS
	SS	85	SPIRAEA JAPONICA 'LITTLE PRINCESS' / LITTLE PRINCESS JAPANESE SPIREA	5 GAL	24"		1 POINT



NOTES:

- IF GRAPHIC REPRESENTATION OF PLANTINGS ON PLANS DO NOT MATCH QUANTITIES IN PLANT SCHEDULE, GRAPHIC REPRESENTATION OF PLANTINGS WILL GOVERN.
- TREES NOT IN A LANDSCAPE BED SHALL RECEIVE A 4" DIAMETER MULCH RING.
- LIMITS OF IRRIGATION INCLUDE DENOTED LANDSCAPE BEDS, ALL SOD/SEED AREAS, AND TREES NOT LOCATED IN A LANDSCAPE BED.
- FULL LANDSCAPE SCHEDULE ON SHEET LS-2.0
- CITY TREE PLANTING AND PRESERVATION NOTES ON SHEET LS-2.0

LANDSCAPE REQUIREMENTS:

BUFFERS AND SCREENING:

- ALL PARKING SPACES, DUMPSTERS, AND RECYCLING CONTAINERS MUST BE SCREENED FROM PUBLIC RIGHTS OF WAY AND ADJACENT PROPERTIES.
- ALL METER BANKS, BACKFLOW PREVENTERS, AND HVAC RELATED MECHANICAL EQUIPMENT WILL BE SCREENED FROM ROSSER ROAD AND ADJACENT PROPERTIES.

20' TYPE C BUFFER (CITY OF SANFORD UDO SEC. 7.4)

WIDTH: 20'

REQ'D LARGE TREES: 1 TREE/50 LF

REQ'D SMALL TREES: 1 TREE/75 LF

REQUIRED POINTS: 1.0/LF

BUFFER 1: EAST EDGE OF SITE

(475 LF / 50 LF)(1) = 10 LARGE TREES REQ'D

(475 LF / 75 LF)(1) = 7 SMALL TREES REQ'D

(475 LF / 1 PT) = 475 POINTS REQ'D

PROVIDED POINTS:

(10 LARGE TREES)X12PT = 120 PTS

(9 SMALL TREES)X6PT = 54 PTS

(34 LARGE SHRUBS)X3PT = 102 PTS

(81 MED. SHRUBS)X 2PT = 162 PTS

(45 SMALL SHRUBS)X1PT = 45 PTS

483 POINTS PROVIDED

BUFFER 2: SOUTH YARD SCREENING

(145 LF / 50 LF)(1) = 3 LARGE TREES REQ'D

(145 LF / 75 LF)(1) = 3 SMALL TREES REQ'D

(145 LF X 1 PT) = 145 POINTS REQ'D

PROVIDED POINTS:

(3 LARGE TREES)X12PT = 36 PTS

(3 SMALL TREES)X6PT = 18 PTS

(8 LARGE SHRUBS)X3PT = 24 PTS

(27 MED. SHRUBS)X 2PT = 54 PTS

(15 SMALL SHRUBS)X1PT = 15 PTS

147 POINTS PROVIDED

BUFFER 3: NORTHWEST YARD SCREENING

(232 LF / 50 LF)(1) = 5 LARGE TREES REQ'D

(232 LF / 75 LF)(1) = 4 SMALL TREES REQ'D

(232 LF X 1 PT) = 232 POINTS REQ'D

PROVIDED POINTS:

(5 LARGE TREES)X12PT = 60 PTS

(6 SMALL TREES)X6PT = 36 PTS

(11 LARGE SHRUBS)X3PT = 33 PTS

(46 MED. SHRUBS)X 2PT = 92 PTS

(25 SMALL SHRUBS)X1PT = 25 PTS

246 POINTS PROVIDED

*EXISTING VEGETATION SHALL COUNT TOWARDS BUFFER AND SCREENING REQUIREMENTS AND WILL BE SUPPLEMENTED AS SHOWN ON PLANS AS REQUIRED.

PARKING LOT PLANTINGS (CITY OF SANFORD UDO SEC. 7.8)

- LANDSCAPED PLANTING AREAS AND ISLANDS FOR PARKING LOT YARDS SHALL HAVE ONE (1) LARGE TREE OR TWO (2) SMALL TREES, AND EIGHT (8) SMALL SHRUBS PER EACH TWENTY (20) PARKING SPACES.

(28 SPACES / 20 SP.)(1) = 2 LARGE TREES REQ'D

5 LARGE TREES PROVIDED

(28 SPACES / 20 SP.)(8) = 11 SMALL SHRUBS REQ'D

20 SMALL SHRUBS PROVIDED

STREET YARD (CITY OF SANFORD UDO SEC. 7.7)

- STREET YARD SHALL BE REQUIRED ON A SITE ALONG ALL FRONTAGES WHERE A PROJECT OR DEVELOPMENT ABUTS A PUBLIC RIGHT OF WAY.

TOTAL: REQ'D LARGE TREES: 8

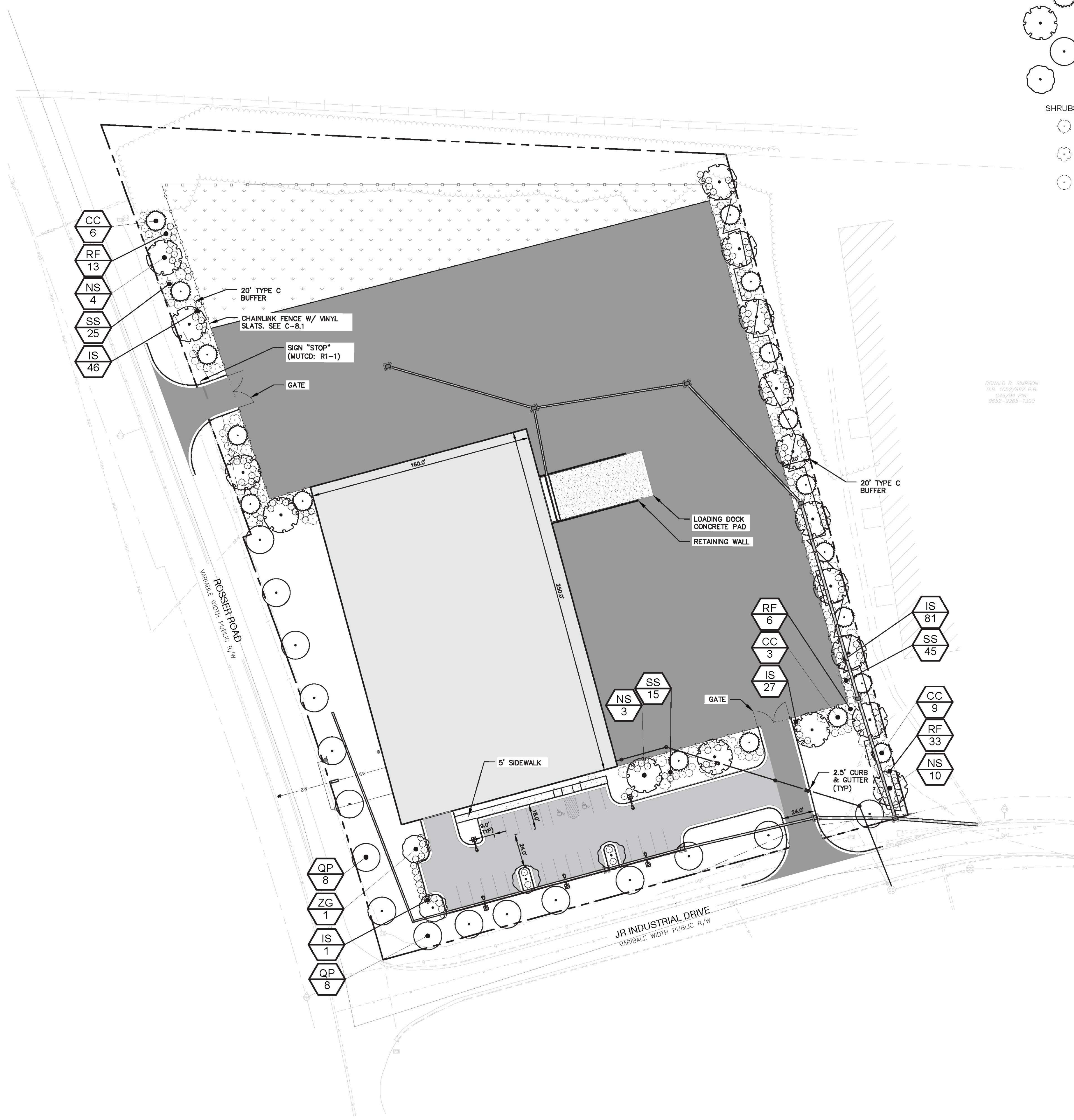
1 TREE/50 LF

ALONG ROSSER RD.
(630 LF / 50 LF)(1) = 13 LARGE TREES REQ'D

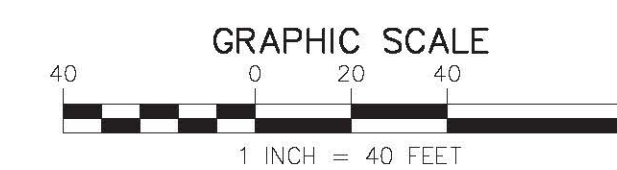
PROVIDED TREES: 13 LARGE TREES

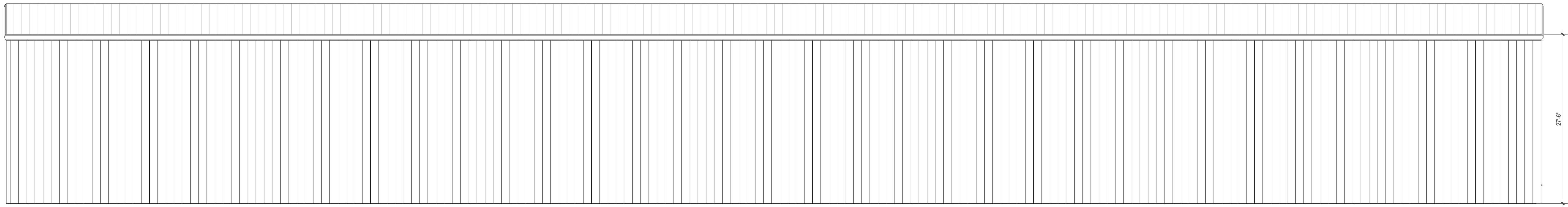
ALONG J R INDUSTRIAL DR.
(380 LF / 50 LF)(1) = 8 LARGE TREES REQ'D

PROVIDED TREES: 8 LARGE TREES

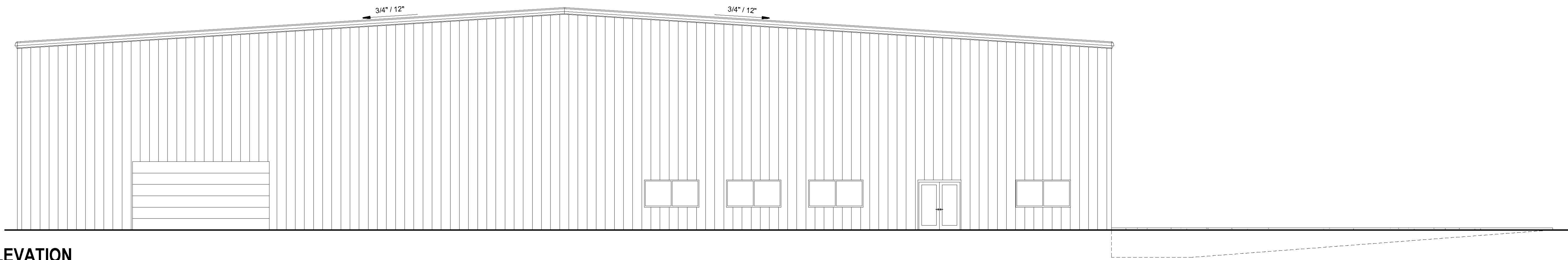


BEFORE YOU DIG!
CALL 811 OR 1-800-832-4949
N.C. ONE-CALL CENTER
IT'S THE LAW!

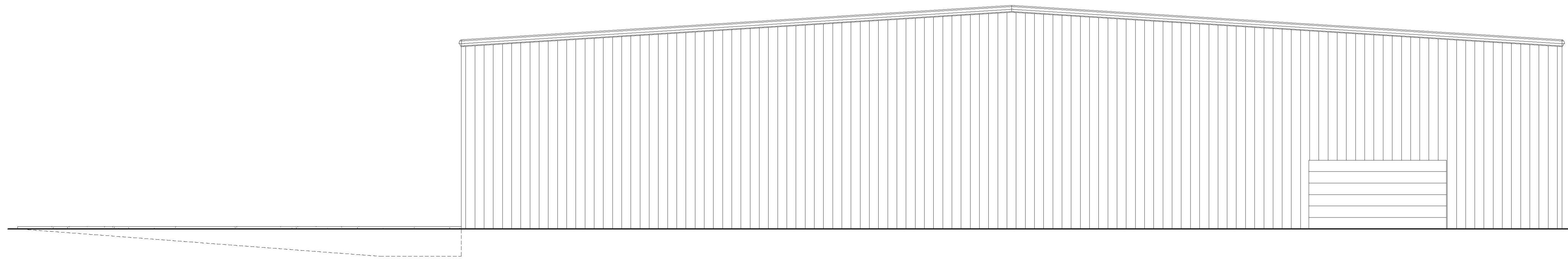




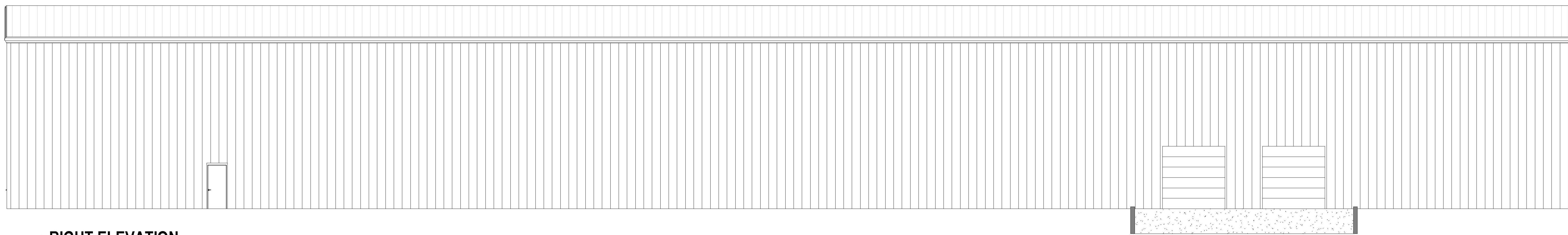
2 LEFT ELEVATION
1/8" = 1'-0"



1 FRONT ELEVATION
1/8" = 1'-0"



3 REAR ELEVATION
1/8" = 1'-0"



4 RIGHT ELEVATION
1/8" = 1'-0"

**REVIEW SET
NOT FOR
CONSTRUCTION**

ROSSER RD INDUSTRIAL
2401 ROSSER ROAD
SANFORD, NC

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No.	Description	Date
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PROJECT #: 220051

DATE: Issue Date

BUILDING ELEVATIONS

A2.1

DIGITAL PRINT DATE: 8/12/2022 10:08:58 AM