WAKE COUNTY NOTES

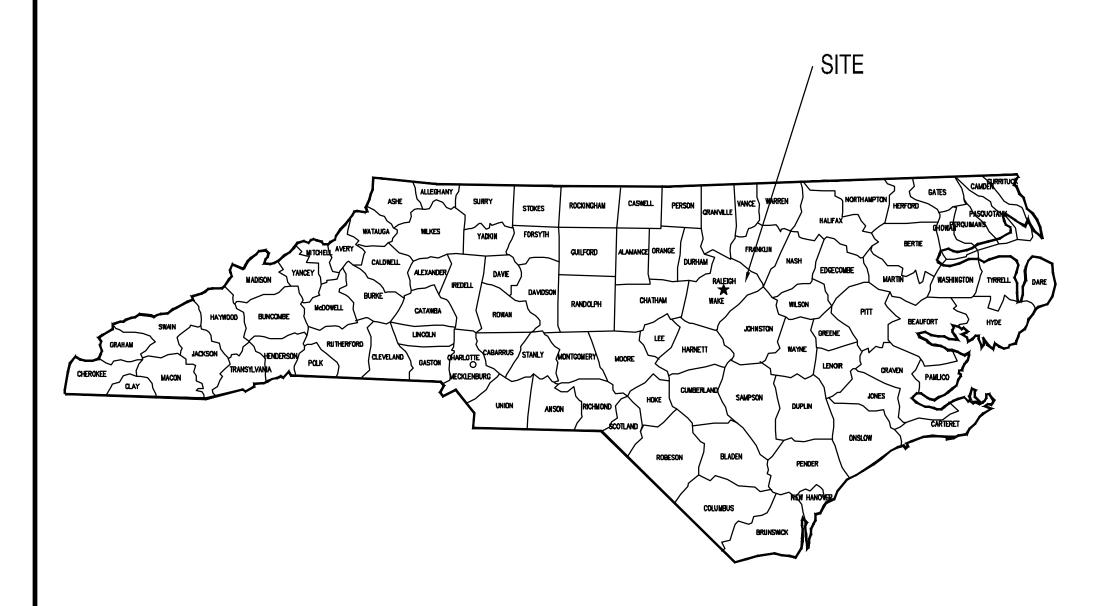
FINAL ZONING AND SITE IMPROVEMENT INSPECTION SHALL BE REQUIRED TO VERIFY SITE PLAN COMPLIANCE BE DONE BEFORE

OFTERIORATED OR DEAD SCREENING SHALL BE REPAIRED OR REPLACED WITHIN SIX MONTHS

NO PERMANENT CONSTRUCTION CAN OCCUR WITHIN BUFFER YARDS

EPTIC TANKS, SEPTIC DRAIN LINES ARE PROHIBITED IN REQUIRED BUFFERYARD

TORMWATER RETENTION AND DETENTION FACILITIES, STORAGE TANKS FOR ANY PURPOSE, UTILITY SUBSTATIONS, AND 3 BUILDING IOUSING UTILITY SUBSTATIONS AND BUILDINGS HOUSING UTILITY COMMODITIES OR EQUIPMENT ARE ALSO PROHIBITED IN REQUIRED IUFFERYARDS.



	IMPERVIOUS S	UMMARY TABLE	
ON-SITE AREA = 429,809 SF (9.867 A	C)		
BUILDINGS	2,754 SF	0.06 ACRE(S)	0.64 % OF AREA
PAVEMENT	43,800 SF	1.01 ACRE(S)	10.19 % OF AREA
SIDEWALK	3,620 SF	0.08 ACRE(S)	0.84 % OF AREA
TOTAL IMPERVIOUS AREA	50,174 SF	1.15 ACRE(S)	11.67 % OF AREA
GREEN/OPEN SPACE	379,635 SF	8.72 ACRE(S)	88.33 % OF AREA
EXISTING IMPERVIOUS AREA	3,604 SF	0.08 ACRE(S)	0.84 % OF AREA
INCREASE IN IMPERVIOUS AREA	46,570 SF	1.07 ACRE(S)	

	OPMENT DATA
DEVELOPMENT NAME:	ROCKET EXPRESS
STREET ADDRESS:	N. ARENDELL AVENUE
	ZEBULON, NC WAKE COUNTY
	PROJECT ID# 796479
PROPERTY IDENTIFICATION #(PIN):	2705-09-1833, 2706-00-2456, 2706-00-3318, 2706-00-3279, 2706-00-4241
PROPERTY #:	2706-00-4241 0111170, 0030085, 0057144, 0058906, 0039956
DEED BOOK/PAGE:	12474-2357
EXISTING ZONING:	HC-HEAVY COMMERCIAL
WATERSHED DISTRICT:	NONE
FLOOD ZONE:	NONE
TOTAL SITE ACRES:	429,809 SF (9.87 AC)
TOTAL OTTE MONES.	120,000 0: (0:0: 7:0)
INSIDE TOWN LIMITS:	YES
EXISTING USE:	VACANT
PROPOSED BUILDING USE:	CAR WASH AND OUTPARCELS
PROPOSED TOTAL BUILDING AREA:	2754 SF (CAR WASH)
MAX BUILDING HEIGHT:	50 FT
MIN LOT AREA:	6,000 SF
MIN LOT WIDTH:	50 FT
MAX. LOT COVERAGE:	80%
FRONT SETBACK:	30 FT
SIDE SETBACK(STREET):	30 FT
SIDE SETBACK(INTERIOR):	0, 5 FT IF PROVIDED
REAR SETBACK:	0 IF ABUTTED BY AN ALLEY, OTHERWISE 25FT
PARKING REQUIREMENTS:	
TOTAL REQUIRED:	2 PER WASH BAY
TOTAL PROVIDED:	22 (VACUUM SPACES)
ACCESIBLE SPACES PROVIDED:	1
LOADING AREA:	1 PROVIDED
LANDSCAPE BUFFERS:	10FT TYPE A BUFFER (ADJACENT HC) 15FT STREETSCAPE BUFFER

CONSTRUCTION DOCUMENTS

Proposed Rocket Express

Project ID# 796479

N. Arendell Avenue & Hendricks Drive
Zebulon, North Carolina
Wake County

DEVELOPER

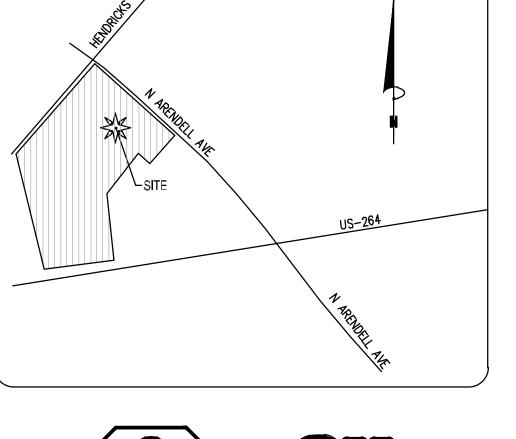
Rock Properties, Inc.
Attn. Gregg Zuckerman
145 Lincoln Avenue, Suite B
Winter Park, FL 32789
(803) 798-0572
gzuckerman@rockproperties.us

Bell Commercial
Attn. Baker Bell
120 Wind Chime Court
Raleigh, NC 27615
(919) 803-8169
baker@bellcommercial.com

CIVIL ENGINEER

Bowman North Carolina, Ltd. 4006 Barrett Drive, Suite 104 Raleigh, NC 27609 (919) 553-6570 mlowder@bowman.com FIRM# F-1445

BEFORE YOU DIG STOP CALL 1 800 632-4949 N.C. ONE-CALL CENTER IT'S THE LAW



VICINITY MAP



PRECONSTRUCTION NOTE

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH
THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR.
CONTACT JASON AT 919-790-5640.

C1.0	COVER SHEET
C1.1	GENERAL NOTES
C2.0	DEMOLITION PLAN
C2.1	EROSION CONTROL PLAN — INITIAL
C2.2	EROSION CONTROL PLAN - FINAL
C2.3	EROSION CONTROL NOTES
C2.4	NORTH CAROLINA GENERAL PERMIT (NCGO1)
C3.0	SITE PLAN
C3.1	ROADWAY PLAN
C4.0	GRADING & DRAINAGE PLAN
C5.0	UTILITY PLAN
C6.0	EROSION CONTROL DETAILS
C6.1	EROSION CONTROL DETAILS
C6.2	CONSTRUCTION DETAILS
C6.3A	CONSTRUCTION DETAILS
C6.3B	CONSTRUCTION DETAILS
C6.3C	CONSTRUCTION DETAILS
C6.3D	CONSTRUCTION DETAILS
C6.4A	UTILITY DETAILS
C6.4B	UTILITY DETAILS
C6.5	STORMWATER MANAGEMENT DETAILS
C6.6	STORMWATER MANAGEMENT DETAILS
C7.0	LANDSCAPE PLAN
C7.1	LIGHTING PLAN
A101	FIRST & SECOND FLOOR PLANS
A104	ELEVATIONS
A105	ELEVATIONS

CURRENT PROPERTY OWNERS

Speedway, LLC
Property Tax Department
539 S. Main Street
Findlay, OH 45840

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED

EROSION CONTROL ☐ S-___ STORMWATER MGMT. ☐ S-_ FLOOD STUDY ☐ S-___

DATE

CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT
TELEPHONE: 919–857–4540

NATURAL GAS
GENERAL CONTRACTOR TO COORDINATE WITH NATURAL GAS UTILITY FOR
SERVICE LINE TO PROPOSED BUILDING.
CONTACT:

UTILITY SERVICE NOTES

GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 1" WATER SERVICE LINE

"POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE.

"TELEPHONE CO." TO PROVIDE NEW UNDERGROUND SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" DIA. PVC CONDUIT W/ PULL

WIRE FROM PHONE PANEL BOARD TO UTILITY COMPANY POINT OF CONNECTION

GENERAL CONTRACTOR TO PROVIDE AND INSTALL A 4" SCHEDULE 40 PVC FROM EXISTING SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF

BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL).

GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/

FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS.

PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION.

CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT

TELEPHONE: 919-857-4540

TELEPHONE:

TELEPHONE

ENVIRONMENTAL CONSULTANT SIGNATURE

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

The City of Raleigh consents to the connection 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 specification of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S—

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 specification of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W—

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 constructions 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 # S—

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contracting the Public Utilities Department at (919)996—4540 at least twenty four hour prior to beginning any of their construction.

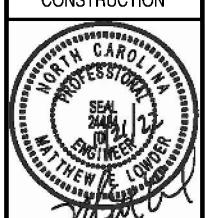
Failure to notify both City Departments in advance of beginning construction, will results in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh

COVER SHEET

Rocket Express

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



PLAN STATUS
6/20/22 SITE PLAN SUBMITTAL
10/21/22 PER TOWN REVIEW

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H: 1" = 50'
V:

JOB No. 220097-01-002

DATE June 20, 2022

FILE No. 220097-01-002

SHEET C1.0

IRON PIPE

IRON PIPE FOUND

IRON PIPE SET IRRIGATION

JUNCTION BOX

JOINT

GENERAL NOTES

- 1. UTILITY CONFLICTS: ALL EXISTING UTILITIES SHOWN WERE COMPILED USING THE BEST AVAILABLE INFORMATION AND FIELD OBSERVATION. BOWMAN NORTH CAROLINA LTD DOES NOT GUARANTEE THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON. CONTRACTOR TO BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF AND PROTECTING ALL EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN OR SHOWN INCORRECTLY ON THE PLANS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IN A TIMELY FASHION TO THE SATISFACTION OF THE APPROPRIATE GOVERNING AGENCY AND THE OWNER OF THE IMPACTED UTILITY AT THE CONTRACTOR'S EXPENSE.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS FOR THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT THE JOB SITE AT ALL TIMES THE APPROPRIATE GOVERNING AGENCY'S PUBLIC WORKS MANUAL, ALL APPROVED EASEMENT AGREEMENTS, AND ONE (1) SIGNED COPY OF THE PLANS AS APPROVED BY THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY FOR ANY VARIANCE TO THE ABOVE DOCUMENTS.
- 3. CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
- 4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND MUST COMPLY WITH OSHA REGULATIONS.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER AND ENGINEER OF ANY PROBLEM CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- 6. THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS/HER CONSTRUCTION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN DEDICATED RIGHT-OF-WAY AND ALL MATERIALS AND WORKMANSHIP SHALL MEET THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS OF THE APPROPRIATE GOVERNING AGENCY.
- 8. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION. THE APPROPRIATE FIRE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSURES AND IN THE EVENT THAT ANY FIRE HYDRANTS ARE TO BE TEMPORARILY REMOVED FROM SERVICE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING AT LEAST 48 HOURS ADVANCED NOTICE OF ANY NEED TO SHUT DOWN ANY PORTION OF THE EXISTING WATER SYSTEM AND FOR OBSERVATIONS AND/OR INSPECTIONS REQUIRED.
- 9. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS OR OTHER DEVICES NECESSARY FOR SAFE TRAFFIC CONTROL IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE COLORADO SUPPLEMENT TO THE MUTCD. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE APPROPRIATE GOVERNING AGENCY PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMIT FOR WORK WITHIN THE RIGHT—OF—WAY.
- 10. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ANY AFFECTED UTILITY COMPANY.
- 11. THE CONTRACTOR SHALL OBTAIN COPIES OF THE "SOILS AND INVESTIGATION" REPORT FROM GEOTECHNICAL ENGINEER ALONG WITH THE "PAVEMENT THICKNESS DESIGN REPORT". THE CONTRACTOR MUST HAVE COPIES OF SAME ON THE SITE AT ALL TIMES.
- 12. THE CONTRACTOR IS REQUIRED TO PROVIDE AS—CONSTRUCTED HORIZONTAL AND VERTICAL CONSTRUCTION INFORMATION, INCLUDING THE LOCATIONS OF ALL SANITARY LINES AND SERVICES, WATER LINES AND SERVICES, AND OTHER UTILITY LINES AND SERVICES TO THE ENGINEER FOR PREPARATION OF
- 13. LIMITS OF CONSTRUCTION EASEMENTS AND RIGHTS-OF-WAY SHALL BE DELINEATED WITH TEMPORARY STAKING BY THE CONTRACTOR. SAFETY FENCING SHALL BE PER APPROPRIATE GOVERNING AGENCY.
- 14. WHERE EXCAVATION IS REQUIRED UNDER EXISTING ASPHALT OR CONCRETE PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW CUT IN A MANNER TO EFFECT A SMOOTH, STRAIGHT—CUT EDGE. ASPHALT PATCH SHALL BE PER APPROPRIATE GOVERNING AGENCY STANDARDS.
- 15. REFER TO FINAL RECORDED PLAT FOR ACTUAL LOT, TRACT, PARCEL, AND EASEMENT LOCATIONS AND DESIGNATIONS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL MATERIALS WITHIN DEDICATED RIGHT—OF—WAYS AND ALL MATERIALS AND WORKMANSHIP SHALL MEET THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS OF THE APPROPRIATE GOVERNING AGENCY.
- 17. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY TO THE PROJECT WORK SITE (SEE THE EROSION CONTROL PLAN). THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY (IF APPLICABLE) TO COMPLETE THE CONSTRUCTION AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL
- 18. WATER WILL BE PROVIDED BY THE CONTRACTOR TO KEEP WIND EROSION IN CHECK. USE OF WATER AS A DUST PREVENTATIVE SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF THE WORK.
- 19. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE PROPERTY LIMITS DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
- 20. ANY CONSTRUCTION DEBRIS OR MUD TRACKING IN THE PUBLIC RIGHT-OF-WAY RESULTING FROM THIS DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY THE DEVELOPMENT AND SHALL PROPERLY BARRICADE THE SITE UNTIL CLEAN UP OR REPAIR IS COMPLETE.
- 21. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO GRADE STREET CORES, RIGHT-OF-WAY TEMPLATES, AND LOTS ACCORDING TO GRADING INSTRUCTIONS SHOWN ON PLANS.
- 22. STREET CONTOURS SHOWN AT PROPOSED STREET LOCATIONS REPRESENT FINISHED GRADE ELEVATION TO TOP OF ASPHALT.
- 23. COMPACTION FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE APPROPRIATE GOVERNING AGENCY REGULATIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- 24. TOLERANCE ROUGH GRADING: TOLERANCE SHALL BE +/- 0.1 FEET.
- 25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ALL APPROPRIATE PERMITS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN OBTAINED PRIOR TO GRADING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL TEMPORARY WATER DIVERSION/CONTROL DEVICES AND EROSION CONTROL DEVICES NECESSARY TO PROTECT ADJACENT PROPERTIES, WATERWAYS AND PUBLIC RIGHT—OF—WAY. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF SAID DEVICES THROUGHOUT CONSTRUCTION AND UNTIL THE PERMANENT PROTECTION NECESSARY HAS BEEN COMPLETED.
- 26. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT APPROVED ARCHITECTURAL/ MECHANICAL/ELECTRICAL/PLUMBING/STRUCTURAL 1. PLANS AND COORDINATE SAME WITH THE SITE PLAN, PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- 27. WHEN DURING THE COURSE OF CONSTRUCTION, ANY OBJECT OF AN UNUSUAL NATURE IS ENCOUNTERED, THE CONTRACTOR SHALL CEASE WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE OWNER, APPROPRIATE GOVERNING AGENCY, AND/OR THE ARCHITECT/ENGINEER.
- 28. THE EXISTING UNDERGROUND UTILITIES SHOW HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN IN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
- 29. ALL STEPS WITH THREE OR MORE RISERS SHALL HAVE HAND RAILS, PER LOCAL CODE.
- 30. A SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF EXISTING ROAD TO PROPOSED CURB AND GUTTER AND/OR PROPOSED EDGE OF PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR THE PONDING OF ANY WATER IN THE ROADWAY. REMOVE AND RECONSTRUCT EXISTING PAVEMENT AND/OR CURB AS DICTATED BY FIELD CONDITIONS TO PROVIDE POSITIVE DRAINAGE AT TIE—IN—POINTS.
- 31. OVERLAY OF EXISTING PAVEMENT SHALL BE MINIMUM OF 1 1/2 INCH DEPTH; ANY COST ASSOCIATED WITH PAVEMENT OVERLAY, OR THE MILLING OF EXISTING PAVEMENT TO OBTAIN REQUIRED DEPTH, SHALL BE ASSUMED BY THE CONTRACTOR.
- 32. ALL RIGHT-OF-WAY DEDICATED FOR PUBLIC USE SHALL BE CLEAR AND UNENCUMBERED.
- 33. AN AIR QUALITY PERMIT SHALL BE OBTAINED IF REQUIRED.

WITH THRUST BLOCK

WATER VALVE

TRANSFORMER

YARD INLET YEAR

CROSSING

WATER SURFACE ELEVATION

- 34. ANY LIGHTING SHOWN HEREON IS AS SPECIFIED BY THE CLIENT AND IS INCLUDED FOR INFORMATION PURPOSES ONLY, AS DIRECTED BY THE OWNER AND/OR PUBLIC AGENCY REQUIREMENTS. BOWMAN CONSULTING GROUP, LTD. HAS NOT PERFORMED THE LIGHTING DESIGN, AND THEREFORE DOES NOT WARRANT AND IS NOT RESPONSIBLE FOR THE DEGREE AND/OR ADEQUACY OF ILLUMINATION ON THIS PROJECT.
- 35. THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ALL RESIDENCES WITHIN VICINITY OF THE PROPERTY BOUNDARY TEN (10) DAYS PRIOR TO ANY BLASTING IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AGENCY REQUIREMENTS.
- 36. NO BLASTING SHALL BE PERMITTED WITHIN 25' OF EXISTING UTILITY LINES OR STRUCTURES. BLASTING TO BE EXTENDED 25' BEYOND PROPOSED STRUCTURES IF CONDITIONS WARRANT FUTURE EXTENSIONS.
- 37. ALL RETAINING WALLS 4' IN HEIGHT AND OVER (MEASURED FROM BOTTOM OF FOOTER TO TOP OF WALL) REQUIRE A SEPARATE BUILDING PERMIT.
- 38. THE APPROVAL OF THIS PLAN DOES NOT CONSTITUTE THE APPROVAL OF FUTURE WORK.
- 39. ALL HANDICAPPED SPACES SHALL HAVE AN ABOVE GRADE IDENTIFICATION SIGN MEETING APPROPRIATE GOVERNING AGENCY STANDARDS.
- 40. WHERE A PROPOSED PIPE CROSSES OR PARALLELS A STREET OR DRIVE AISLE, THE ASPHALT SHALL BE NEATLY SAWCUT TO FULL DEPTH. AFTER INSTALLATION OF THE PIPE, THE ROADWAY SHALL BE PATCHED IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AGENCY STANDARDS.

GENERAL NOTES (CONT.)

- 41. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND MAKE ALL INSPECTIONS NECESSARY IN ORDER TO DETERMINE THE FULL EXTENT OF THE WORK REQUIRED TO MAKE THE PROPOSED WORK CONFORM TO THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, CONDITIONS, AND CONFIRMATION AND CONDITION OF EXISTING GROUND SURFACE AND THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, QUANTITY AND QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED. ANY INACCURACIES OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS MUST BE BOUGHT TO THE OWNER'S ATTENTION IN ORDER TO CLARIFY THE EXACT NATURE OF THE WORK TO BE PERFORMED PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 42. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING ROADS AND UTILITIES WHICH OCCURS AS A RESULT OF THE PROJECT CONSTRUCTION WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT-OF-WAY.
- 43. ALL STREET CUT AND PATCH WORK IN PUBLIC RIGHT-OF-WAY REQUIRED FOR UTILITIES INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CITY, COUNTY, AND/OR APPROPRIATE GOVERNING AGENCY STANDARDS AND SPECIFICATIONS.
- 44. THE APPROVAL OF THIS PLAN SHALL IN NO WAY GRANT PERMISSION FOR THE CONTRACTOR TO TRESPASS ON OFF-SITE PROPERTIES.
- 45. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF COMPLYING WITH OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 46. THESE PLANS MAKE NO REPRESENTATION AS TO THE SUBSURFACE CONDITIONS AND THE PRESENCE OF SUBSURFACE WATER OR THE NEED FOR SUBSURFACE DRAINAGE FACILITIES.
- 47. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING ALL NECESSARY INSPECTIONS.
- 48. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 49. ALL FINISHED GRADING, SEEDING, SODDING OR PAVING SHALL BE DONE IN SUCH A MANNER TO PRECLUDE THE PONDING OF WATER.
- O. THE ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE
- 51. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING OF ANY CONSTRUCTION ON THE PROJECT. IF CONFLICTS ARE DISCOVERED AS A RESULT OF TEST HOLE FINDINGS, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- 52. EXCAVATION SUPPORT SYSTEMS SHALL CONFORM TO THE PROVISIONS OF OSHA CONSTRUCTION STANDARD 29 CFR PART 1926 SUBPART P, OR CURRENT
- 53. AT LOCATIONS WHERE THE FINAL SURFACE COURSE OF ASPHALT PAVEMENT IS TO BE FEATHERED INTO THE EXISTING SURFACE COURSE, THE EXISTING SURFACE COURSE IS TO BE SCABBLED TO A MINIMUM DEPTH OF 1" AND A TACK COAT APPLIED PRIOR TO FINAL PAVING TO INSURE A SMOOTH, WELL BONDED JOINT.
- 54. ANY NEW PAVEMENT OPENED TO TRAFFIC SHALL RECEIVE A TACK COAT PRIOR TO PLACEMENT OF ANY OVERLYING ASPHALT COURSE.
- 55. ALL SIDEWALKS TO BE 4" THICK CONCRETE UNLESS OTHERWISE SHOWN ON THE PLAN.
- 56. ALL DEMOLITION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE APPROPRIATE GOVERNING AGENCY.
- 57. ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING DEMOLITION.
- 58. ITEMS SHOWN TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY CAN BE PLACED IN THEIR NEW LOCATION. CONTRACTOR SHALL VERIFY THESE ITEMS WITH THE OWNER, PRIOR TO CONSTRUCTION.
- 59. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV LINES AND REMOVAL OF UTILITY POLES, PEDESTALS AND TRANSFORMERS WITH UTILITY COMPANIES AND WITH DEVELOPER PRIOR TO DEMOLITION.
- 60. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS AND/OR RECONSTRUCTION OF ALL UTILITY COVER (MANHOLE FRAMES AND COVERS, VALVE BOX
- COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.

 61. THE CONTRACTOR MUST HAVE THE APPROVED CONSTRUCTION DRAWINGS IN POSSESSION PRIOR TO THE START OF CONSTRUCTION. AT LEAST ONE (1)
- COPY OF THE APPROVED PLANS, WITH REVISIONS, MUST BE KEPT ON-SITE AT ALL TIMES.
- 62. ALL HANDICAP RAMPS SHALL BE BUILT IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE APPROPRIATE GOVERNING AGENCY STANDARDS, NCDOT STANDARDS, AND CURRENT ADA REQUIREMENTS.
- 63. THE STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY ARE NOT ONLY 100% COMPLETE, BUT ALSO THAT 100% OF THE DRAINAGE AREA TO EACH FACILITY IS PERMANENTLY STABILIZED. SEED AND MULCH DOES NOT CONSTITUTE STABILIZATION IN TERMS OF THE CONTRACTOR MAINTENANCE OF THE STORM DRAIN, STORMWATER MANAGEMENT, AND WATER QUALITY FACILITIES. ALL STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES SHALL BE TURNED OVER TO THE OWNER COMPLETELY CLEAN AND FREE FROM ANY CONSTRUCTION RELATED SEDIMENT OR DEBRIS.
- 64. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL ADA ACCESSIBLE SIDEWALKS MAINTAIN SLOPES NOT TO EXCEED 5% LONGITUDINALLY AND 2% CROSS SLOPES. SLOPES AT ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL BE A MAXIMUM OF 2%, AND THE MANEUVERING CLEARANCE AT EXTERIOR ENTRANCES SHALL HAVE A MAXIMUM SLOPE OF 2%.
- 65. DURING CONSTRUCTION, NO TEMPORARY CONNECTIONS TO FIRE HYDRANTS MAY BE MADE WITHOUT THE EXPRESS AUTHORIZATION OF THE UTILITY OWNER.

GENERAL EROSION CONTROL NOTES

- THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC
 RIGHTS—OF—WAY OF THE APPROPRIATE GOVERNING AGENCY AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A
 TIMELY MANNER.
- THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION AND CONSTRUCTION OPERATIONS THAT ARE A PART OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS A PART OF THIS PROJECT.
- 3. ALL DISTURBED AREAS MUST BE HYDRO-MULCHED W/ TACKIFIER AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE NOT OTHERWISE PERMANENTLY STABILIZED.
- 4. THE CONTRACTOR SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHTS—OF—WAY.
- 5. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES; OR TO SUPPORT SILT FENCE USED AS AN EROSION CONTROL MEASURE; IS PROHIBITED. THE USE OF OSHA APPROVED COLORED WARNING CAPS ON REBAR OR FENCE POSTS USED WITH EROSION CONTROL MEASURES IS NOT ACCEPTABLE.
- 6. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF A DRAINAGE WAY, ADDITIONAL SEDIMENT CONTROLS SUCH AS TEMPORARY DIKES OR SILT FENCE SHALL BE REQUIRED.
- 7. APPROVED EROSION AND SEDIMENT CONTROL "BEST MANAGEMENT PRACTICES" SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THE PROJECT. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMP'S WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP WHEN THE SEDIMENT LEVEL REACHES ONE HALF THE HEIGHT OF THE BMP OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTION OF THE BMP. A BUILDUP OF EXCESSIVE SEDIMENT OCCURRING IN FLAT AREAS, BEHIND STRAW BALES, AND BEHIND SILT FENCES WILL BE REMOVED PROMPTLY. DISLOCATED STRAW BALES AND COLLAPSED OR TORN SILT FENCES WILL BE IMMEDIATELY REPAIRED.
- 8. THE CLEANING OF CEMENT TRUCK DELIVERY CHUTES SHALL OCCUR IN A PREDEFINED CONTAINMENT AREA. THE DISCHARGE OF WATER CONTAINING CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
- 9. EROSION BALES SHALL BE PLACED SUCH THAT RUNOFF WILL NOT FLOW BETWEEN, AROUND OR UNDER BALES. BALES TO BE ANCHORED WITH 2" X 2" X 3' WOODEN STAKES OR TWO PER BALE.
- 10. WHEN TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE REMOVED, ANY SILT AND SEDIMENT DEPOSITS SHALL BE REMOVED AND SPREAD EVENLY IN OPEN AREAS.
- 12. BEST MANAGEMENT PRACTICES (BMP) DETAILS SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY. ADJUST AS NECESSARY TO FIT FIELD CONDITIONS.
- 13. TEMPORARY SEDIMENT BASINS SHALL BE USED DURING CONSTRUCTION TO CONTAIN ALL RUNOFF FROM THE SITE. IF TRENCH DEWATERING OR GROUND WATER REMOVAL IS REQUIRED, THE SEDIMENT POND OR OTHER APPROVED MEANS SHALL BE USED TO DETAIN ALL WATER PUMPED BY THESE
- 14. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF CONSTRUCTION, GRADING AND LANDSCAPING, INCLUDING THE NAME AND 24 HOUR PHONE NUMBER OF THE RESPONSIBLE PARTY TO CONTACT REGARDING ANY EROSION OR SEDIMENT PROBLEM TO THE APPROPRIATE GOVERNING AGENCY PRIOR TO BEGINNING ANY CONSTRUCTION.
- 15. EROSION CONTROL MEASURES TO BE COORDINATED WITH CONSTRUCTION MANAGER.

OPERATIONS.

16. EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH REGULATIONS OF THE APPROPRIATE GOVERNING AGENCY.

RALEIGH, NC 27609 Phone: (919)553-6570 bowman.com

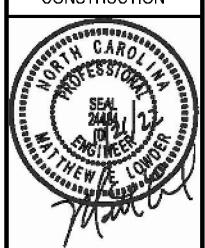
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CONSTRUCTION



PLAN STATUS
6/20/22 SITE PLAN SUBMITTAL
10/21/22 PER TOWN REVIEW

DATE DESCRIPTION

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DESIGN DRAWN CHKD

SCALE H: 1/"= \$8X'
V: 1" = XXX'

JOB No. 220097-01-002

FILE No. 220097-01-002

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SHEET

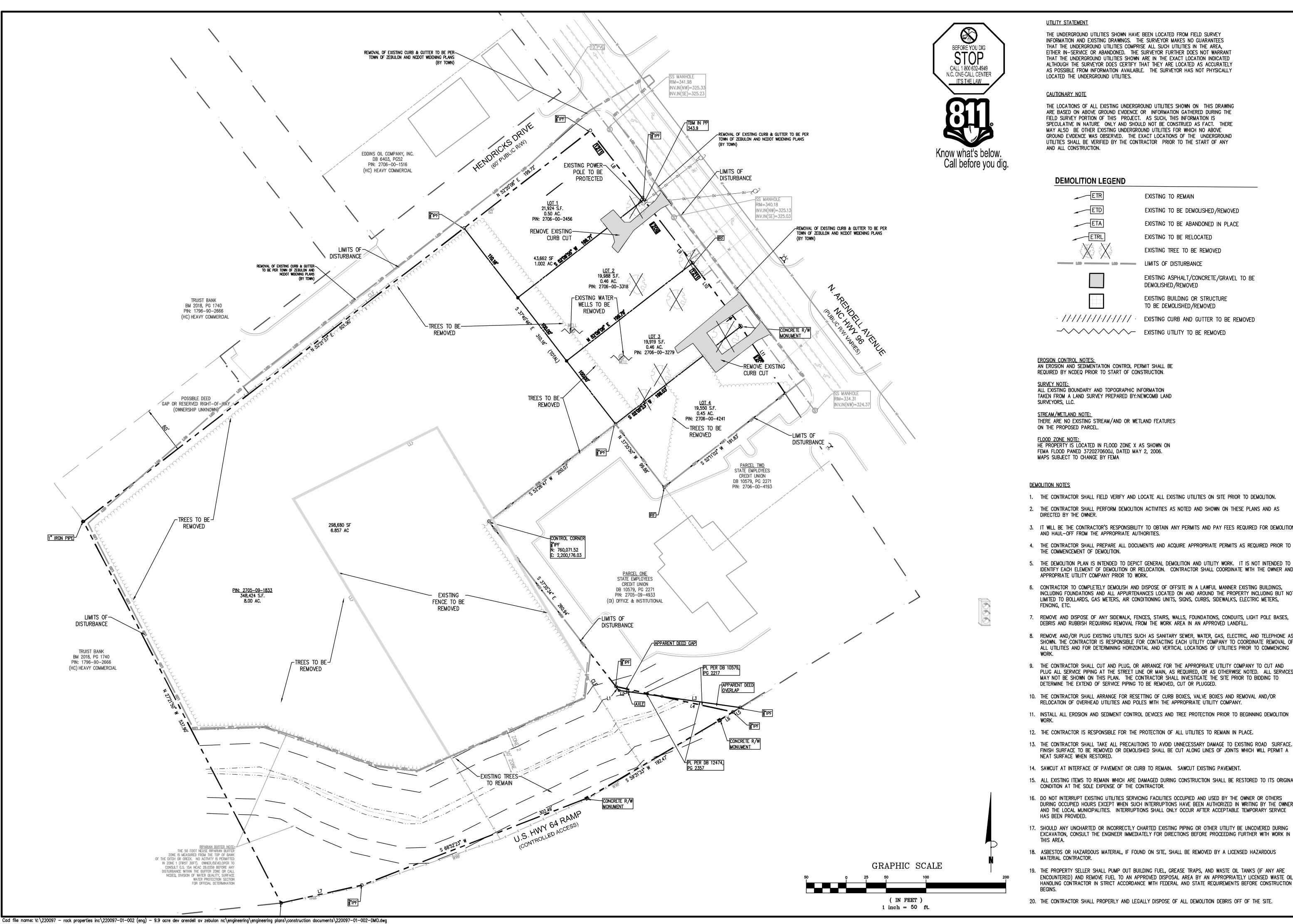
DATE June 20, 2022

1. THIS IS A STANDARD SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND

ADDITIONAL LEGENDS AND NOTES MAY BE FOUND ON OTHER SHEETS ASSOCIATED WITH THIS PLAN.

THESE LEGENDS AND NOTES ARE TO BE REFERENCED IN ADDITION TO THIS STANDARD SHEET.

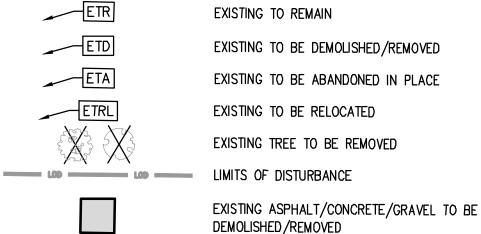
NOT BE USED ON THE PROJECT.



THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON ABOVE GROUND EVIDENCE OR INFORMATION GATHERED DURING THE FIELD SURVEY PORTION OF THIS PROJECT. AS SUCH. THIS INFORMATION IS SPECULATIVE IN NATURE ONLY AND SHOULD NOT BE CONSTRUED AS FACT. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY

DEMOLITION LEGEND



EXISTING BUILDING OR STRUCTURE

TO BE DEMOLISHED/REMOVED · //·//·//·// EXISTING CURB AND GUTTER TO BE REMOVED -______ EXISTING UTILITY TO BE REMOVED

SURVEY NOTE:
ALL EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION

STREAM/WETLAND NOTE: THERE ARE NO EXISTING STREAM/AND OR WETLAND FEATURES

FLOOD ZONE NOTE:
HE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FEMA FLOOD PANED 3720270600J, DATED MAY 2, 2006.

- 1. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
- 2. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY THE OWNER.
- 3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES.
- 4. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
- 5. THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND
- APPROPRIATE UTILITY COMPANY PRIOR TO WORK. 6. CONTRACTOR TO COMPLETELY DEMOLISH AND DISPOSE OF OFFSITE IN A LAWFUL MANNER EXISTING BUILDINGS,
- LIMITED TO BOLLARDS, GAS METERS, AIR CONDITIONING UNITS, SIGNS, CURBS, SIDEWALKS, ELECTRIC METERS,
- REMOVE AND DISPOSE OF ANY SIDEWALK, FENCES, STAIRS, WALLS, FOUNDATIONS, CONDUITS, LIGHT POLE BASES, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED LANDFILL.
- 8. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING
- 9. THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AT THE STREET LINE OR MAIN, AS REQUIRED, OR AS OTHERWISE NOTED. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTEND OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED.
- 10. THE CONTRACTOR SHALL ARRANGE FOR RESETTING OF CURB BOXES, VALVE BOXES AND REMOVAL AND/OR RELOCATION OF OVERHEAD UTILITIES AND POLES WITH THE APPROPRIATE UTILITY COMPANY.
- 11. INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION
- 12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- 13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACE. FINISH SURFACE TO BE REMOVED OR DEMOLISHED SHALL BE CUT ALONG LINES OF JOINTS WHICH WILL PERMIT A
- 14. SAWCUT AT INTERFACE OF PAVEMENT OR CURB TO REMAIN. SAWCUT EXISTING PAVEMENT.
- 15. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL 6/20/22 SITE PLAN SUBMIT CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
- DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE 17. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING
- EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN
- 18. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS
- 19. THE PROPERTY SELLER SHALL PUMP OUT BUILDING FUEL, GREASE TRAPS, AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY AN APPROPRIATELY LICENSED WASTE OF HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS BEFORE CONSTRUCTION
- 20. THE CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF OF THE SITE.

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PLAN

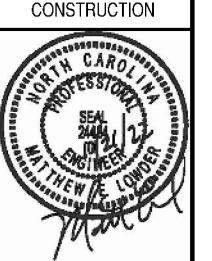
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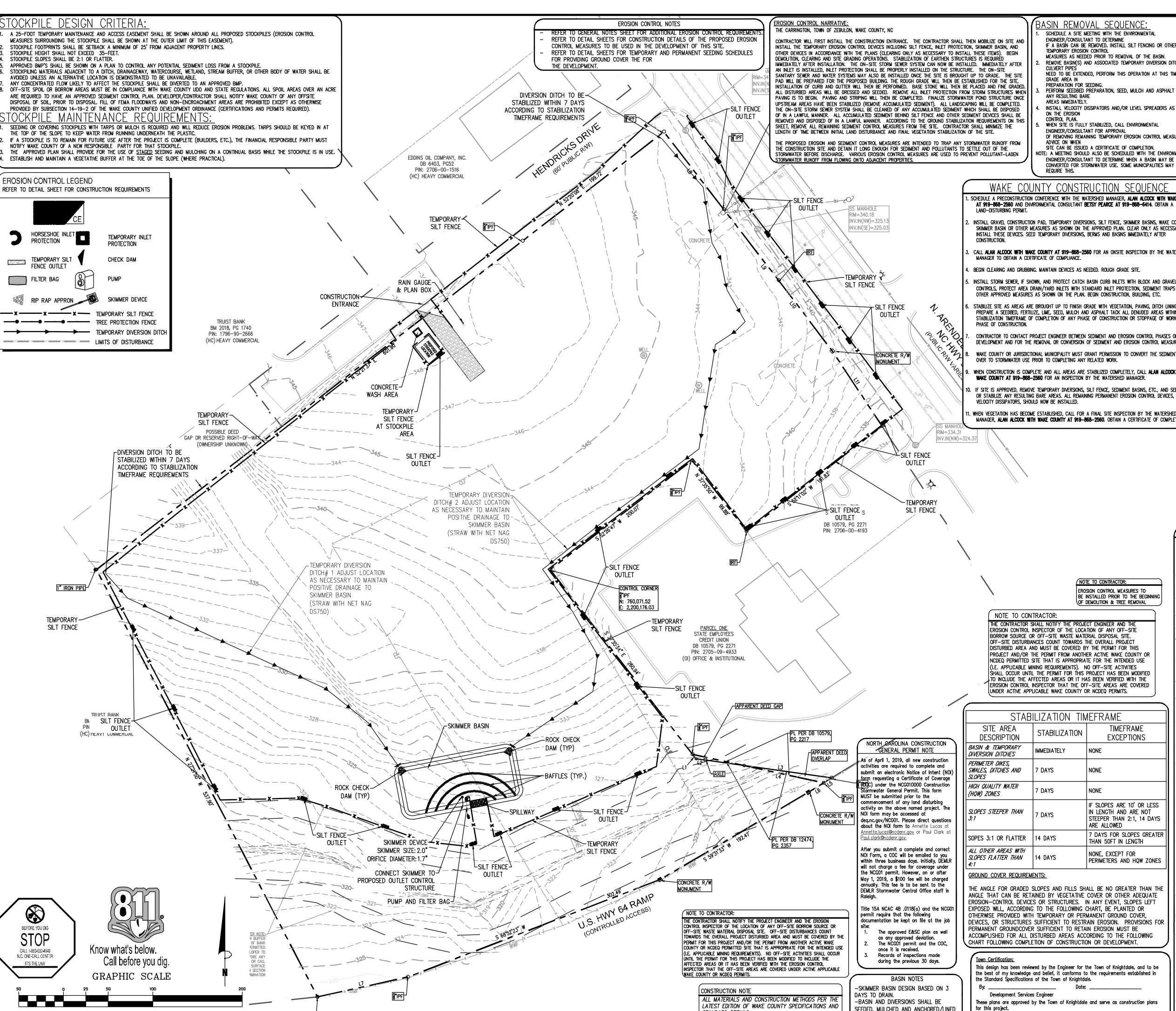
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1/21/22 PER TOWN REVIEW DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD H: 1" = 50' SCALE JOB No. 220097-01-002 DATE June 20, 2022 FILE No. 220097-01-002

PLAN STATUS



(IN FEET

1 inch = 50 ft.

Cad file name: V:\220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-ES.dwg

BASIN REMOVAL SEQUENCE:

SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMIN

IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTRO MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF

NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK

ANY RESULTING BARE

AREAS IMMEDIATELY INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED

WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL

ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN

SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. IOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO

SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, ALAN ALCOCK WITH WAKE COUNT

INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER

CALL **ALAN ALCOCK WITH WAKE COUNTY AT 919-868-2560** FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.

BEGIN CLEARING AND CRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.

INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.

STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENUDED AREAS WITHIN NPDES STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY

CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION CONTROL PHASES OF DEVELOPMENT AND FOR THE REMOVAL OR CONVERSION OF SEDIMENT AND EROSION CONTROL MEASURES.

WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.

WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ALAN ALCOCK WITH **WAKE COUNTY AT 919-868-2560** FOR AN INSPECTION BY THE WATERSHED MANAGER.

IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OU OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.

EROSION CONTROL MEASURES TO

OF DEMOLITION & TREE REMOVAL

BE INSTALLED PRIOR TO THE BEGINNING

TIMEFRAME

EXCEPTIONS

SLOPES ARE 10' OR LESS

IN LENGTH AND ARE NOT

THAN 50FT IN LENGTH

NONE. EXCEPT FOR

ARE ALLOWED

STEEPER THAN 2:1, 14 DAYS

7 DAYS FOR SLOPES GREATER

PERIMETERS AND HQW ZONES

TABILIZATION

IMMEDIATELY

DAYS

DAYS

DAYS

14 DAYS

14 DAYS

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SEEDED, MULCHED AND ANCHORED/LINED

AND PINNED UPON INSTALLATION OF

MEASURES.

STANDARD DETAILS

WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER, ALAN ALCOCK WITH WAKE COUNTY AT 919-868-2560. OBTAIN A CERTIFICATE OF COMPLETION.

FROSION CONTROL NOTES

TOTAL SITE AREA = 7.67 ACRES WEDOWEE SANDY LOAM AND RAWLINGS-RION COMPLEX

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE

MINIMUM STANDARDS AND SPECIFICATIONS OF THE NCDEQ EROSION AND SEDIMENT CONTROL HANDBOOK & WAKE COUNTY REQUIREMENTS THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION

ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH

APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.

CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE WAKE COUNTY & NCDEQ EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO ANY OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.

PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS). THE CONTRACTOR SHALL PREPARE AND SLIBMIT A SLIPPLEMENTARY. EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO WAKE COUNTY & NCDEQ FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.

O. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-EEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.

STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE WAKE COUNTY & NCDEQ SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.

2. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.

3. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION

1. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.

. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.

6. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.

. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.

18. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

SEDIMENT AND EROSION CONTROL NOTES

THE NORTH CAROLINA NCDEQ REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).

REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP-RAP APRONS

AND OTHER EROSION CONTROL MEASURES. EXISTING BOUNDARIES, TOPOGRAPHY, 100-YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN

EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR.

SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.

TEMPORARY DIVERSION DITCHES AND BERMS SHALL BE MAINTAINED AS THE SITE IS BROUGHT TO GRADE. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING

SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS SHEET.

WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF, SF-PF, OR PF) LIMITS ARE ADJACENT, THE TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.

CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR

PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL, DE-WATERING, SOLID WASTE DISPOSAL, AND HAZARDOUS MATERIALS.

CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES. MASS CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.

USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE. IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION.

AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND SLOPES DRAINS TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES.

DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION DITCHES

MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION. PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND ELEVATIONS OF

THE PROPOSED STORM SEWER SYSTEMS. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.

GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.

ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.

SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN

THE BOUNDARIES OF THE SITE.

ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.

FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.

ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.

ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.

CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF NCDEQ OR WAKE COUNTY.

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PRELIMINARY

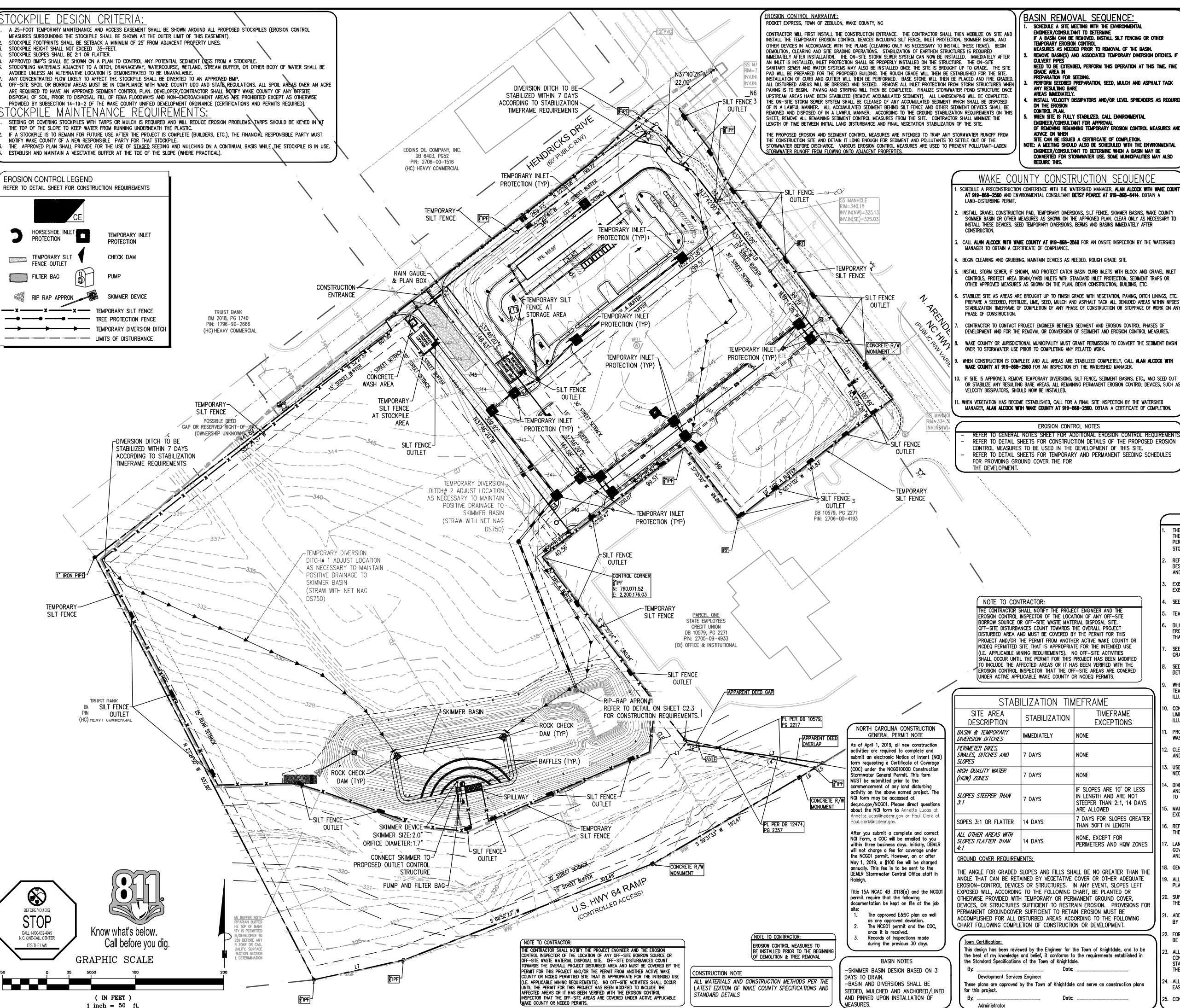
DO NOT

USE FOR

CONSTRUCTION

PLAN STATUS					
20/22	SITE PLAN	SUBMITTAL			
/21/22	PER TOWN	REVIEW			
DATE	DATE DESCRIPTION				
MEL	MEL	XXX			
ESIGN	DRAWN	CHKD			
SCALE H: 11"=40" V: 1" = 40"					
B No.	220097-0	01-002			

DATE June 20, 2022 FILE No. 220097-01-002



Cad file name: V: \220097 — rock properties inc\220097—01—002 (eng) — 9.9 acre dev arendell av zebulon nc\engineering\engineering plans\construction documents\220097—01—002—ES.dwg

<u>BASIN REMOVAL SEQUENCE:</u> SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL INGINEER/CONSULTANT TO DETERMINE if a basin can be removed. Install silt fencing or other

MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINI

PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK

INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE convertéd for stormwater use. Some municipalities may also

WAKE COUNTY CONSTRUCTION SEQUENC schedule a preconstruction conference with the watershed manager, **alan alcock with wake count**

INSTALL CRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, WAKE COUNTY SKIMMER BASIN OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER

CALL **ALAN ALCOCK WITH WAKE COUNTY AT 919-868-2560** FOR AN ONSITE INSPECTION BY THE WATERSHED

INSTALL STORM SEWER, IF SHOWN, AND PROTECT CATCH BASIN CURB INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, PROTECT AREA DRAIN/YARD INLETS WITH STANDARD INLET PROTECTION, SEDIMENT TRAPS OR

STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETG PREPARE A SEEDBED, FERTILIZE, LIME, SEED, MULCH AND ASPHALT TACK ALL DENUDED AREAS WITHIN NPDES STABILIZATION TIMEFRAME OF COMPLETION OF ANY PHASE OF CONSTRUCTION OR STOPPAGE OF WORK ON ANY

CONTRACTOR TO CONTACT PROJECT ENGINEER BETWEEN SEDIMENT AND EROSION CONTROL PHASES OF

WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN

WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL **ALAN ALCOCK WITH**

IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT

OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS

Manager, **Alan Alcock with Wake County at 919–868–2560**. Obtain a certificate of completion.

EROSION CONTROL NOTES REFER TO GENERAL NOTES SHEET FOR ADDITIONAL EROSION CONTROL REQUIREMENT

REFER TO DETAIL SHEETS FOR CONSTRUCTION DETAILS OF THE PROPOSED EROSION CONTROL MEASURES TO BE USED IN THE DEVELOPMENT OF THIS SITE. REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES

TIMEFRAME

EXCEPTIONS

EROSION CONTROL NOTES

TOTAL SITE AREA = 7.67 ACRES WEDOWEE SANDY LOAM AND WEDOWEE-SAW COMPLEX

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NCDEQ EROSION AND SEDIMENT CONTROL HANDBOOK & WAKE COUNTY REQUIREMENTS

THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH

APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL

POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE WAKE COUNTY & NCDEQ EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO ANY OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.

PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO WAKE COUNTY & NCDEQ FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.

D. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-EEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.

STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE WAKE COUNTY & NCDEQ SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.

!. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION

. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.

i. Sediment basins and traps, perimeter dikes, sediment barriers and other measures INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.

6. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.

'. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.

8. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

SEDIMENT AND EROSION CONTROL NOTES

THE EROSION AND SEDIMENTATION CONTROL MEASURES (BMPS) WERE DESIGNED USING WAKE COUNTY AND THE NORTH CAROLINA NCDEO REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).

REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP-RAP APRONS AND OTHER EROSION CONTROL MEASURES.

EXISTING BOUNDARIES, TOPOGRAPHY, 100-YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR.

SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.

TEMPORARY DIVERSION DITCHES AND BERMS SHALL BE MAINTAINED AS THE SITE IS BROUGHT TO GRADE.

DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING GRADING ACTIVITIES.

SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS SHEET.

WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF, SF—PF, OR PF) LIMITS ARE ADJACENT, TH TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.

CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR

WASTE DISPOSAL, AND HAZARDOUS MATERIALS.

CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES. MASS CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.

PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL, DE-WATERING, SOLID

USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE. IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION DITCHES AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND SLOPES DRAINS

TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES. MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION. PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY

REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY

GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.

GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.

. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN

ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.

THE BOUNDARIES OF THE SITE.

ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED

BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.

FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.

ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.

ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.

i. Construction limits shall not be exceeded without the approval of nodeq or wake county.

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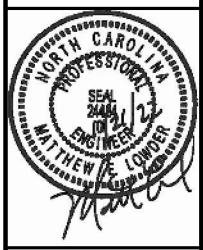
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PRELIMINARY DO NOT USE FOR CONSTRUCTION



PLAN STATUS					
20/22	SITE PLAN	SUBMITTAL			
/21/22	PER TOWN	REVIEW			
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		·			
DATE	E DESCRIPTION				
MEL	MEL	XXX			
ESIGN	DRAWN	CHKD			
SCALE H: 1/"=450" V: 1"=40"					
B No. 220097-01-002					
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DATE June 20, 2022 FILE No. 220097-01-002

REFER TO DETAIL SHEETS FOR TEMPORARY AND PERMANENT SEEDING SCHEDULES FOR PROVIDING GROUND COVER THE FOR THE DEVELOPMENT.

BASIN NOTES:

SKIMMER BASIN DESIGN BASED ON 3 DAYS TO DRAIN.

BASIN AND DIVERSIONS SHALL BE SEEDED, MULCHED AND ANCHORED/LINED AND PINNED UPON INSTALLATION OF MEASURES.

NOTE TO CONTRACTOR:

EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE BEGINNING OF DEMOLITION & TREE REMOVAL

NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE EROSION CONTROL INSPECTOR OF THE LOCATION OF ANY OFF-SITE BORROW SOURCE OR OFF-SITE WASTE MATERIAL DISPOSAL SITE. OFF-SITE DISTURBANCES COUNT TOWARDS THE OVERALL PROJECT DISTURBED AREA AND MUST BE COVERED BY THE PERMIT FOR THIS PROJECT AND/OR THE PERMIT FROM ANOTHER ACTIVE NCDEQ PERMITTED SITE THAT IS APPROPRIATE FOR THE INTENDED USE (I.E. APPLICABLE MINING REQUIREMENTS). NO OFF-SITE ACTIVITIES SHALL OCCUR UNTIL THE PERMIT FOR THIS PROJECT HAS BEEN MODIFIED TO INCLUDE THE AFFECTED AREAS OR IT HAS BEEN VERIFIED WITH THE EROSION CONTROL INSPECTOR THAT THE OFF-SITE AREAS ARE COVERED UNDER ACTIVE APPLICABLE NCDEQ PERMITS.

EROSION CONTROL NOTES:

- 1. TOTAL AREA DISTURBED = 3.05 ACRES TOTAL SITE AREA = 7.67 ACRES
- SOIL TYPE = WEDOWEE SANDY LOAM AND WEDOWEE—SAW COMPLEX

 2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NCDEQ EROSION AND SEDIMENT CONTROL HANDBOOK
- 3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
- 4. CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
- 5. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
- 6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 7. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDEQ EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 8. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS. A REVISED PLAN SHOWING OFF-SITE IMPACTS SHOULD BE SUBMITTED AND APPROVED PRIOR TO ANY OFF-SITE GRADING. CONTACT PROJECT ENGINEER AND PROJECT EROSION CONTROL INSPECTOR TO ENSURE ADDITIONAL EROSION CONTROL MEASURES ARE INSTALLED PRIOR TO OFF-SITE GRADING.
- 9. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NCDEQ FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT NO SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
- 10. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RE-EEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- 11. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. ALL DISTURBED AREAS WHICH ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE NCDEQ SEDIMENT CONTROL REGULATIONS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
- 12. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.
- 13. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA. SIX INCHES OF STONE SHALL BE USED FOR THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
- 14. ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
- 15. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND—DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP—SLOPE LAND DISTURBANCE TAKES PLACE.
- 16. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS COMPLETED.
- 17. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
- 18. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF—PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

EROSION CONTROL NARRATIVE:

THE CARRINGTON, TOWN OF ZEBULON, WAKE COUNTY, NO

CONTRACTOR WILL FIRST INSTALL THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL THEN MOBILIZE ON SITE AND INSTALL THE TEMPORARY EROSION CONTROL DEVICES INCLUDING SILT FENCE, INLET PROTECTION, SKIMMER BASIN, AND OTHER DEVICES IN ACCORDANCE WITH THE PLANS (CLEARING ONLY AS NECESSARY TO INSTALL THESE ITEMS). BEGIN DEMOLITION, CLEARING AND SITE GRADING OPERATIONS. STABILIZATION OF EARTHEN STRUCTURES IS REQUIRED IMMEDIATELY AFTER INSTALLATION. THE ON-SITE STORM SEWER SYSTEM CAN NOW BE INSTALLED. IMMEDIATELY AFTER AN INLET IS INSTALLED, INLET PROTECTION SHALL BE PROPERLY INSTALLED ON THE STRUCTURE. THE ON-SITE SANITARY SEWER AND WATER SYSTEMS MAY ALSO BE INSTALLED ONCE THE SITE IS BROUGHT UP TO GRADE. THE SITE PAD WILL BE PREPARED FOR THE PROPOSED BUILDING. THE ROUGH GRADE WILL THEN BE ESTABLISHED FOR THE SITE. INSTALLATION OF CURB AND GUTTER WILL THEN BE PERFORMED. BASE STONE WILL THEN BE PLACED AND FINE GRADED. ALL DISTURBED AREAS WILL BE DRESSED AND SEEDED. REMOVE ALL INLET PROTECTION FROM STORM STRUCTURES WHEN PAVING IS TO BEGIN. PAVING AND STRIPING WILL THEN BE COMPLETED. FINALIZE STORMWATER POND STRUCTURE ONCE UPSTREAM AREAS HAVE BEEN STABILIZED (REMOVE ACCUMULATED SEDIMENT). ALL LANDSCAPING WILL BE COMPLETED. THE ON-SITE STORM SEWER SYSTEM SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT WHICH SHALL BE DISPOSED OF IN A LAWFUL MANNER. ALL ACCUMULATED SEDIMENT BEHIND SILT FENCE AND OTHER SEDIMENT DEVICES SHALL BE REMOVED AND DISPOSED OF IN A LAWFUL MANNER. ACCORDING TO THE GROUND STABILIZATION REQUIREMENTS ON THIS SHEET, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES FROM THE SITE. CONTRACTOR SHALL MINIMIZE THE LENGTH OF TIME BETWEEN INITIAL LAND DISTURBANCE AND FINAL VEGETATION STABILIZATION OF THE SITE.

THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE INTENDED TO TRAP ANY STORMWATER RUNOFF FROM THE CONSTRUCTION SITE AND DETAIN IT LONG ENOUGH FOR SEDIMENT AND POLLUTANTS TO SETTLE OUT OF THE STORMWATER BEFORE DISCHARGE. VARIOUS EROSION CONTROL MEASURES ARE USED TO PREVENT POLLUTANT—LADEN STORMWATER RUNOFF FROM FLOWING ONTO ADJACENT PROPERTIES.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC. THAT MAY BE REQUIRED.
- 2. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED FOR A COMPLETE AND WORKING SYSTEM
- 3. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 4. CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
- 5. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
- 6. THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.

SEDIMENT & EROSION CONTROL NOTES:

- THE EROSION AND SEDIMENTATION CONTROL MEASURES (BMPS) WERE DESIGNED USING THE NORTH
 CAROLINA NCDEQ REQUIREMENTS AND SHALL BE INSTALLED ACCORDINGLY. CONTRACTOR SHALL
 PERFORM ALL ACTIVITIES IN STRICT COMPLIANCE WITH THE NORTH CAROLINA NPDES GENERAL PERMIT
 FOR STORM WATER DISCHARGES FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
- 2. REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR EROSION CONTROL DETAILS AND DESIGN TABLES FOR SEDIMENT BASINS, DIVERSION DITCHES, AND CULVERTS, SLOPE DRAINS, RIP-RAP APRONS AND OTHER EROSION CONTROL MEASURES.
- 3. EXISTING BOUNDARIES, TOPOGRAPHY, 100—YR FLOODPLAIN, UTILITY AND ROAD INFORMATION TAKEN FROM AN EXISTING CONDITIONS SURVEY. ALL EXISTING INFORMATION IS TO BE FIELD VERIFIED BY THE
- 4. SEE THE LANDSCAPE PLAN FOR LOCATIONS OF PROPOSED PLANTINGS AND FINAL STABILIZATION.
- 5. TEMPORARY DIVERSION DITCHES AND BERMS SHALL BE MAINTAINED AS THE SITE IS BROUGHT TO GRADE.
- 6. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- 7. SEE THE GENERAL NOTES SHEET AND THE GRADING AND DRAINAGE PLAN FOR OTHER NOTES REGARDING GRADING ACTIVITIES.
- 8. SEE SITE PLAN, GRADING AND DRAINAGE PLAN, UTILITY PLAN, PLANTING PLAN AND OTHER PLAN SHEETS FOR DETAILED DESIGN INFORMATION OF PERMANENT SITE APPURTENANCES SHOWN ON THIS SHEET.
- 9. WHERE THE LIMITS OF DISTURBANCE AND TEMPORARY FENCE (SF, SF-PF, OR PF) LIMITS ARE ADJACENT, THE TEMPORARY FENCE LINE IS THE LIMITS OF DISTURBANCE. THE LINE TYPES ARE SHOWN SEPARATED FOR ILLUSTRATIVE PURPOSES ONLY.
- CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR ILLUSTRATED.
- PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL, DE-WATERING, SOLID WASTE DISPOSAL, AND HAZARDOUS MATERIALS.
 CLEAR ONLY AS REQUIRED TO INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES. MASS
- CLEARING AND GRUBBING CAN BEGIN ONLY AFTER ALL DOWNSTREAM MEASURES HAVE BEEN INSTALLED.

DITCHES AND SLOPE DRAINS. CONTRACTOR SHALL MAINTAIN AND RELOCATE DIVERSION DITCHES AND

- 13. USE ROCK OR WASHED STONE TO BRING CONSTRUCTION EXIT TO GRADE. IMPLEMENT WHEEL WASHES AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION.14. DIVERT STORM WATER RUNOFF OFF THE FACE OF THE SEDIMENT BASIN SLOPES USING DIVERSION
- SLOPES DRAINS TO ENSURE STORM WATER RUNOFF DOES NOT ERODE THE FACE OF FINAL SLOPES.

 15. MAINTAIN POSITIVE FLOW TO THE SEDIMENT BASINS THROUGHOUT ALL PHASES OF CONSTRUCTION.
- PLACE EXCAVATED SOILS ALONG DOWNSTREAM EDGE OF THE DIVERSION DITCHES TO PROVIDE ADDITIONAL CAPACITY.
- ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS.

 17. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED

16. REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND

- BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS DURING CONSTRUCTION OPERATIONS.

 18. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- 19. ALL WORK SHALL BE CONFINED TO PERMIT LIMITS SHOWN ON PLANS. UNLESS OTHERWISE NOTED, THE
- SITE PLAN PROPERTY LIMITS SHALL BE CONSIDERED THE PERMIT LIMITS.
- 20. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
- 21. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
- 22. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.
- 23. ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
- 24. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE.
- 25. CONSTRUCTION LIMITS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF NCDEQ INSPECTOR.

NORTH CAROLINA CONSTRUCTION GENERAL PERMIT NOTE:

As of April 1, 2019, all new construction activities are required to complete and submit an electronic Notice of Intent (NOI) form requesting a Certificate of Coverage (COC) under the NCG010000 Construction Stormwater General Permit. This form MUST be submitted prior to the commencement of any land disturbing activity on the above named project. The NOI form may be accessed at deq.nc.gov/NCG01. Please direct questions about the NOI form to Annette Lucas at Annette.lucas@ncdenr.gov or Paul Clark at Paul.clark@ncdenr.gov.

After you submit a complete and correct NOI Form, a COC will be emailed to you within three business days. Initially, DEMLR will not charge a fee for coverage under the NCG01 permit. However, on or after May 1, 2019, a \$100 fee will be charged annually. This fee is to be sent to the DEMLR Stormwater Central Office staff in Raleigh.

Title 15A NCAC 4B .0118(a) and the NCG01 permit require that the following documentation be kept on file

- 1. The approved E&SC plan as well as any approved deviation.

 2. The NCGO1 permit and the COC once it is received.
- The NCG01 permit and the COC, once it is received.
 Records of inspections made during the previous 30 days.
- 4. The Certificate of Approval

at the job site:

NOTIFICATION OF COMBINED SELF-MONITORING AND SELF-INSPECTION FORM:

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND—DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010.

TO SIMPLIFY DOCUMENTATION OF SELF—INSPECTION REPORTS AND NPDES SELF—MONITORING REPORTS, DWQ AND DEMLR DEVELOPED A COMBINED FORM. THE SELF—INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF—MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF—INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT:

HTTP://PORTAL.NCDENR.ORG/WEB/LR/EROSION

IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CALL THE APPLICABLE NCDENR REGIONAL OFFICE: (RALEIGH: 919-791-4200) (FAYETTEVILLE: 910-433-3300) (WILMINGTON: 910-796-7215) (WASHINGTON: 252-946-6481) (WINSTON-SALEM: 336-771-5000) (MOORESVILLE: 704-663-1699) (ASHEVILLE: 828-296-4500).

TREE PROTECTION NOTES:

- 1. THE CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS OUTSIDE OF CUT/FILL LINES, IN ADDITION TO THOSE THAT RECEIVE TREE/SHRUB PROTECTION BARRIERS. THE CONTRACTOR IS ALSO REQUESTED TO SAVE ALL OTHER EXISTING TREES AND SHRUBS WHERE POSSIBLE.
- 2. WHEN ROOT PRUNING IS NECESSARY, CUT ROOTS CLEANLY USING A DISC TRENCHER AND IMMEDIATELY COVER ALL ROOT CUT SURFACES LARGER THAN TWO INCHES IN DIAMETER WITH TREE WOUND DRESSING. USE PLYWOOD FORMS WHEN TREE ROOTS ARE ADJACENT TO PROPOSED CURB & GUTTER OR SIDEWALK.
- 3. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- 4. NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
- 5. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.
- 6. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE.

RALEIGH, NC 2760; Phone: (919)553-657 bowman.com

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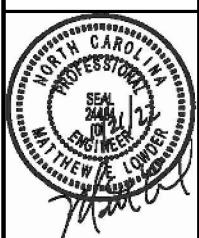
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PLAN STATUS 6/20/22 SITE PLAN SUBMIT

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10/21/22	PER TOWN	REVIEW
DATE	DESCRIP	PTION
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: N /A <u>-</u> 50 V: N/A	0'
JOB No.	220097-	01-002
DATE	June 20,	2022
FILE No.	220097-0	1-002

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20/22|SITE PLAN SUBMIT 0/21/22 PER TOWN REVIEW DATE | DESCRIPTION MEL

PLAN STATUS

DESIGN | DRAWN | CHKD SCALE JOB No. 220097-01-002

DATE June 20, 2022 FILE No. 220097-01-002

SHEET

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCGO1 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 NCGO1 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

_	CTION E: GROUND STABIL		
		Required Ground Stabi	lization Timeframes
Sit	te 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 (HQV Zones) 7	None
(c)	Slopes steeper than 3:1	7	
(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
	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 ther 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 shal be maintained in a manner to render the surface stable against accelerated erosion until permanent around stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in Permanent Stabilization Temporary Stabilization

- Temporary grass seed covered with straw or Permanent grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erasion control products with or ...
- Geotextile fabrics such as permanent soil. reinforcement matting without temporary grass seed Hydroseleding Plastic sheeting.
- Appropriately applied straw or other mulch Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover. sufficient to restrain erosion Structural methods such as concrete, as phalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

. Select flocculants that are appropriate for the soils being exposed during construction, selectina 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 grea 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. l. 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
- 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 secondar
- 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
- Dispose waste off-site at an approved disposal facility. 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

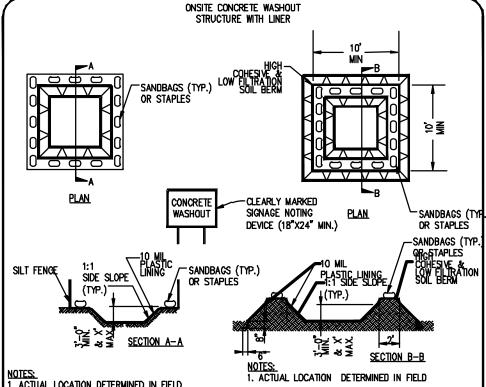
PORTABLE TOILETS install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable,

provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with

- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic
- 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 unit.

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.



NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

INCHES OF FREEBOARD. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

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 solic waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place th 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. local standard details are not available, use one of the two types of temporary concrete

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE

ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12

MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES
75% OF THE STRUCTURES CAPACITY TO PROVIDE

ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

- 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
- 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 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. Posi 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. 10. 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

ERBICIDES, 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.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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] Raingauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weeken holiday periods, and no individual-day rainfall informatio available, record the cumulative rain measurement for those attended days jand this will determine if a site inspection needed. Days on which no rainfall occurred shall be recorde "zero." The permittee may use another rain-monitoring de approved by the Division.
2 E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event \geq 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 measure, 6. Description, evidence, and date of corrective actions taken.
3 Stormwater discharge outfalls SDOs	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 outfalls 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 > 10 inch in 24 hours	If visible sedimentation is found outside site limits, then a recolor the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has the site limits, 2. Description, evidence, and date of corrective actions taken, 3. An explanation as to the actions taken to control future releases.
[5] Streams or wetlands or site or offsite Invhere accessible]	At least once per 7 calendar days and within 24 hours of a rain event ≥ 10 inch in 24 hours	If the stream or wetland has increased visible sedimentation of stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2] all of this periof this permit.
ibi Ground stabilization measures	After each phase of grading	1. The phase of grading linstallation of perimeter 68.5C measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. 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.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up—to—date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC 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&SC Plan.	Initial and date a copy of the approved E&SC 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&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2 Additional Documentation to be Kent on Site

In addition to the E&SC 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

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) 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—available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

i. 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]

SELF-INSPECTION, RECORDKEEPING AND REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland.

(b) 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).

(c) 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.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

(e) Noncompliance

with the conditions

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	Within 24 hours, an oral or electronic notification.		
deposition in a	Within 7 calendar days, a report that contains a description of the		
stream or wetland	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.		
	If the stream is named on the NC 303(d) list as impaired for sediment- related causes, the permittee may be required to perform additional		
	monitoring, inspections or apply more stringent practices if staff		
	determine that additional requirements are needed to assure compliance		
	with the federal or state impaired-waters conditions.		
(b) Oil spills and	Within 24 hours, an oral or electronic notification. The notification		
release of	shall include information about the date, time, nature, volume and		
hazardous	location of the spill or release.		
substances per Item			
1(b)-(c) above			
(c) Anticipated	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 bypasses [40 CFR 122.41(m)(3)] effect of the bypass. Within 24 hours, an oral or electronic notification. bypasses [40 CFR Within 7 calendar days, a report that includes an evaluation of the 122.41(m)(3)] quality and effect of the bypass.

case-by-case basis.

of this permit that noncompliance, and its causes; the period of noncompliance, may endanger including exact dates and times, and if the noncompliance has not health or the been corrected, the anticipated time noncompliance is expected to environment[40] continue; and steps taken or planned to reduce, eliminate, and CFR 122.41(I)(7)] prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6), Division staff may waive the requirement for a written report on a

Within 7 calendar days, a report that contains a description of the

Within 24 hours, an oral or electronic notification.

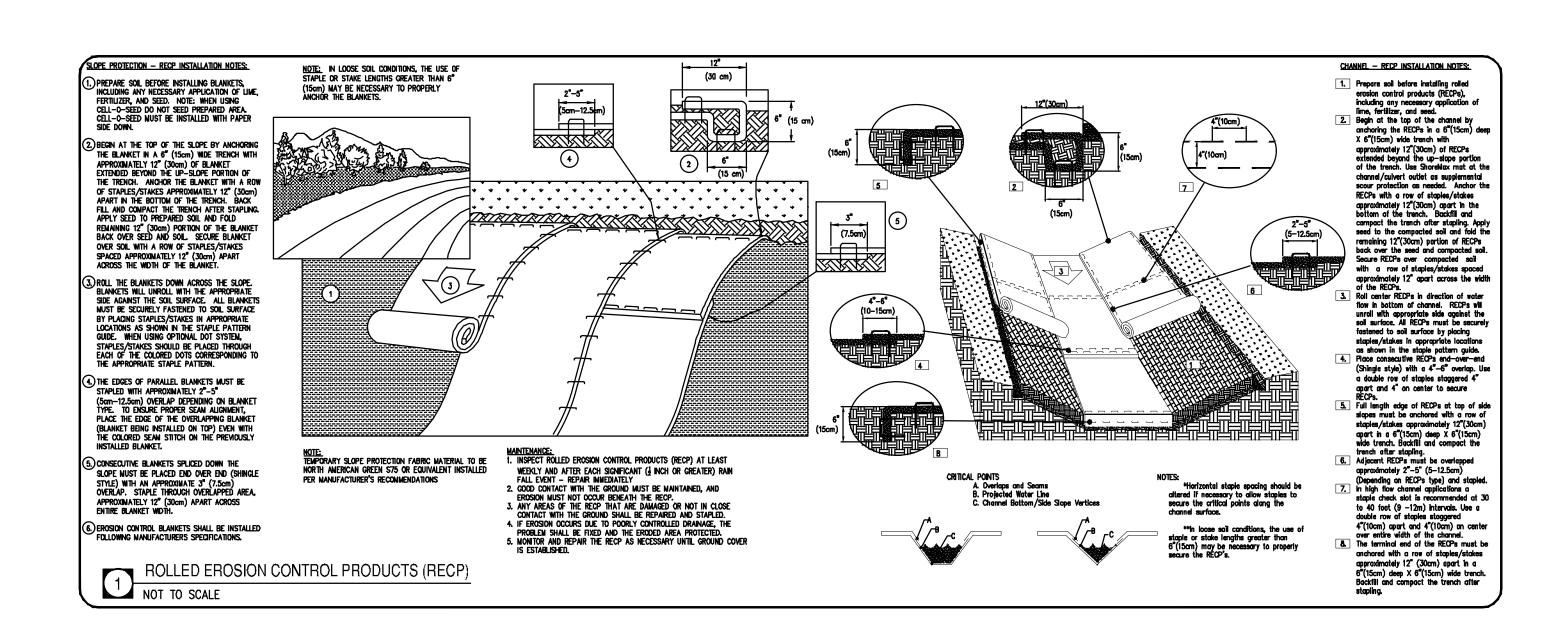
PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

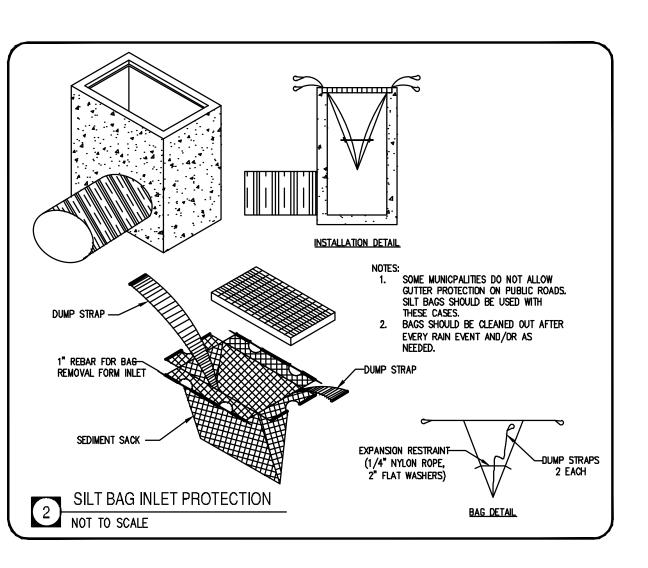
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be arawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw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

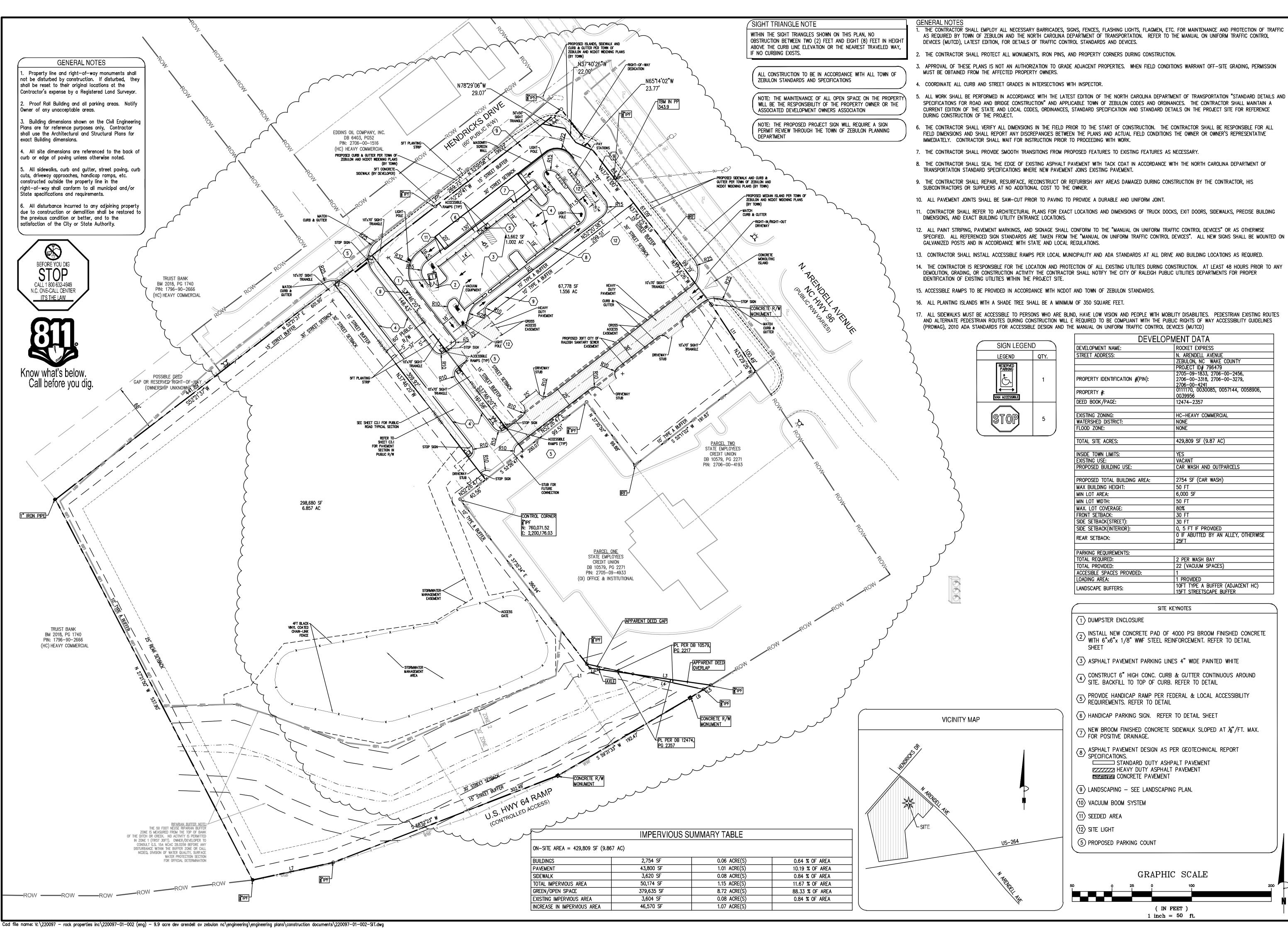
- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C. Item (2)(c) and (d) of this permit. (c) 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
- (d) 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,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (f) 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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19







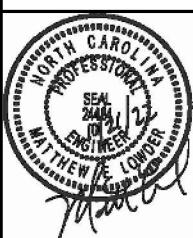
Arende piect IDa Rocket

PLAN

SITE

PRELIMINARY

DO NOT USE FOR CONSTRUCTION



PLAN STATUS)/22|SITE PLAN SUBMIT 10/21/22 PER TOWN REVIEW DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD SCALE H: 1" = 50' JOB No. 220097-01-002 DATE June 20, 2022

FILE No. 220097-01-002

C3.0

GRAPHIC SCALE

(IN FEET)

1 inch = 50 ft.

DEVELOPMENT DATA

ROCKET EXPRESS

12474-2357

PROJECT ID# 796479

HC-HEAVY COMMERCIA

429,809 SF (9.87 AC)

2754 SF (CAR WASH)

0, 5 FT IF PROVIDED

2 PER WASH BAY

22 (VACUUM SPACES)

15FT STREETSCAPE BUFFER

O IF ABUTTED BY AN ALLEY, OTHERWISE

10FT TYPE A BUFFER (ADJACENT HC)

6,000 SF

50 FT

SITE KEYNOTES

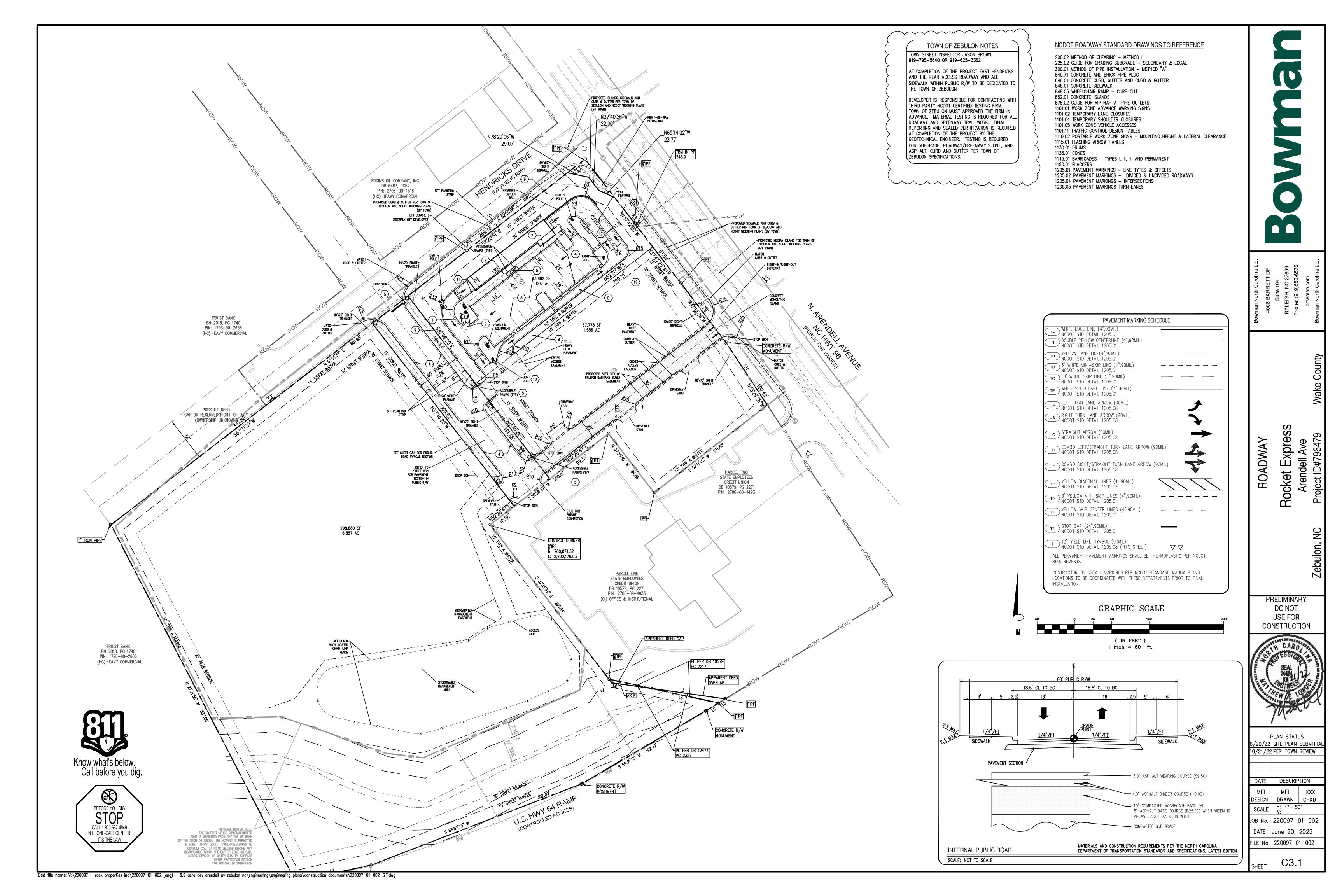
AR WASH AND OUTPARCELS

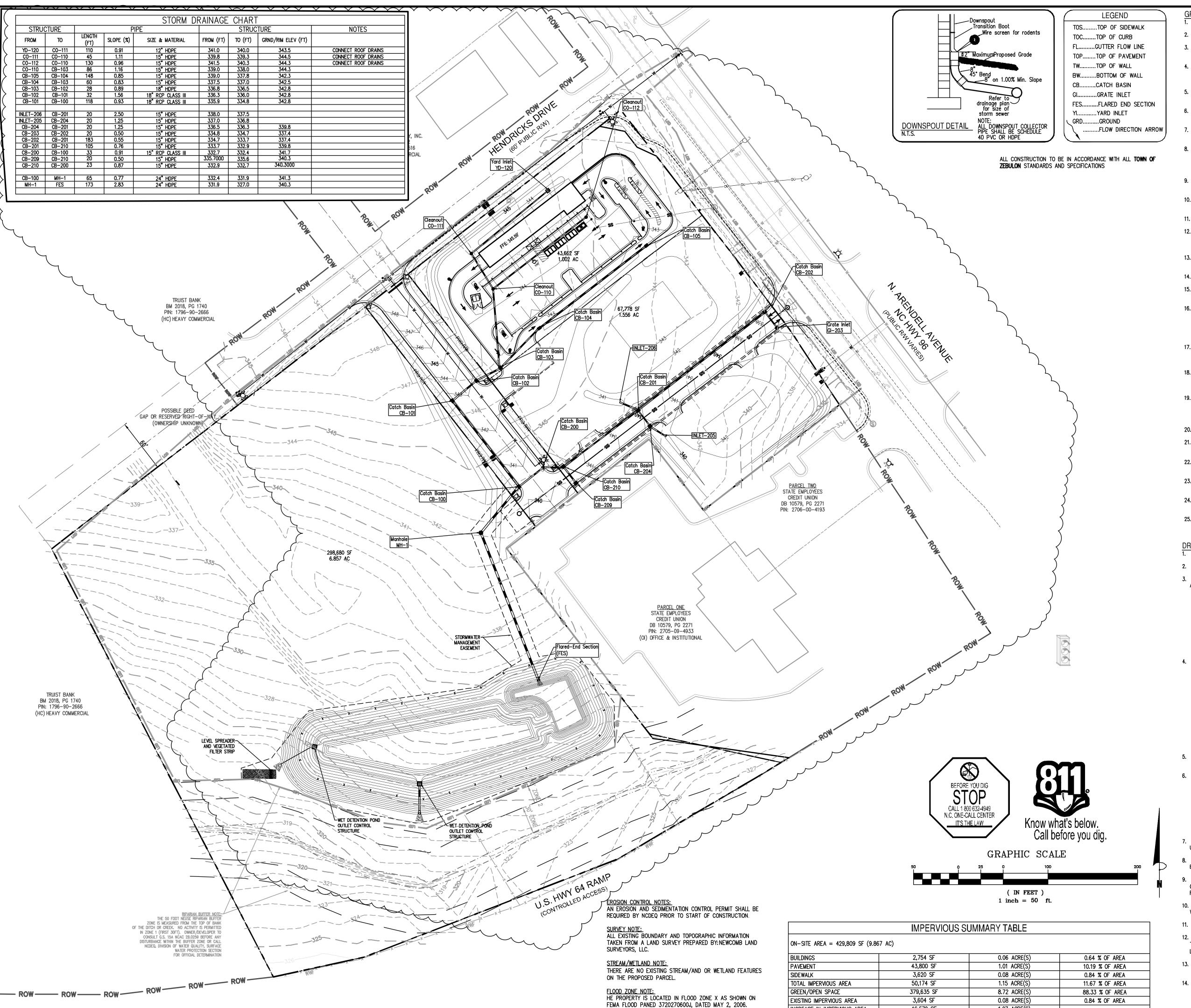
N. ARENDELL AVENUE
ZEBULON, NC WAKE COUNTY

2705-09-1833, 2706-00-2456,

2706-00-3318, 2706-00-3279,

2706-00-4241 0111170, 0030085, 0057144, 0058906,





MAPS SUBJECT TO CHANGE BY FEMA

Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\lengineering plans\construction documents\220097-01-002-GRP.dwg

. REFER TO THE SITE PLAN FOR RELATED NOTES.

2. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.

ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE

GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.

THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND

SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION.

THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING

LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.

8. THE PROPOSED CONTOURS SHOWN IN DRIVES AND PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS

9. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET OVERLAND.

10. ANY GRADING, BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING PLAN, IS

11. LAND DISTURBANCE WITHOUT AN APPROVED ESC PLAN IS PROHIBITED.

CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.

12. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION

13. ALL GRADED AREAS ARE TO BE STABILIZED (SEEDED OR LANDSCAPED) WITHIN 14 DAYS OF HAVING REACHED FINAL GRADE.

14. EXISTING GRADES, CONTOURS, UTILITIES AND OTHER EXISTING FEATURES FROM FIELD RUN SURVEY.

15. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO

16. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL

17. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION, ELEVATION, AND DIMENSIONS OF EXIT DOORS, RAMPS, BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

18. ALL FILL MATERIALS, EXISTING BUILDING FOUNDATIONS, PAVEMENT AND UTILITY STRUCTURES, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE

19. ALL FOUNDATION EXCAVATION SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE TO DETERMINE WHETHER UNSUITABLE MATERIAL MUST BE REMOVED. ALL UNDESIREABLE MATERIAL SHALL BE REMOVED, BACKFILLED AND COMPACTED AS REQUIRED BY THE GEOTECHNICAL

20. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED OR DEPICTED.

21. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

22. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

23. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND

PAVED AREAS. 24. ALL UNSURFACED AREAS DISTRURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL

25. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO

I. A MINIMUM GRADE OF 0.50 % SHALL BE MAINTAINED ON ALL PIPES, UNLESS OTHERWISE NOTED.

2. PIPE LENGTHS AND SLOPES INDICATED ON THE PLANS ARE APPROXIMATE ONLY.

CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER.

3. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500 LF OF TRENCH MAY BE OPENED AT ONE TIME. B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY

AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. D. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. E. RESTABALIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REGULATIONS. F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

4. CATCH BASINS, MANHOLES, FRAMES, GRATES, ETC. SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS.

REFERENCE THE FOLLOWING STANDARD DETAILS: 840.02 - CONCRETE CATCH BASIN

840.03 - FRAME, GRATES, AND HOOD FOR CATCH BASINS

840.14 - CONCRETE DROP INLET 840.04 - CONCRETE OPEN THROAT CATCH BASIN

840.14 - CONCRETE DROP INLET 840.16 - DROP INLET FRAME AND GRATES 840.31 - CONCRETE JUNCTION BOX

840.36 - TRAFFIC BEARING GRATED DROP INLET

840.52 - PRECAST MANHOLE 840.45 - PRECAST DRAINAGE STRUCTURE 838.80 - PRECAST CONCRETE ENDWALL

5. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.

6. STORM PIPE SHALL BE AS FOLLOW UNLESS OTHERWISE NOTED:

SHALL BE WATERTIGHT.

46,570 SF

INCREASE IN IMPERVIOUS AREA

1.07 ACRE(S

TYPE 1: RCP, CLASS III PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS.

TYPE 2: HIGH DENSITY POLYETHYLENE PIPE (HDPE) - AASHTO DESIGNATION M252 TYPE S, M294 TYPE S AND MP7-97 TYPE S, SMOOTH INTERIOR/ANNULAR EXTERIOR. ONLY PERMITTED WHEN SPECIFICALLY INDICATED ON THE CONSTRUCTION DRAWINGS. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTALLATION GUIDELINES. PIPE JOINTS AND FITTINGS

7. ALL STORM DRAINAGE WITHIN THE PUBLIC ROADS SHALL BE CLASS III REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.

8. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE SILT AND DEBRIS.

9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

10. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS

11. PRECAST STRUCTURES MAYBE USED AT CONTRACTORS OPTION.

12. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".

13. STRUCTURE TOP ELEVATIONS SHOWN HERE ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS

14. RIM ELEVATIONS AS NOTED ARE TO THE GUTTER FLOW LINE.

xpre

RAINAGE

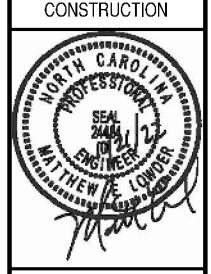
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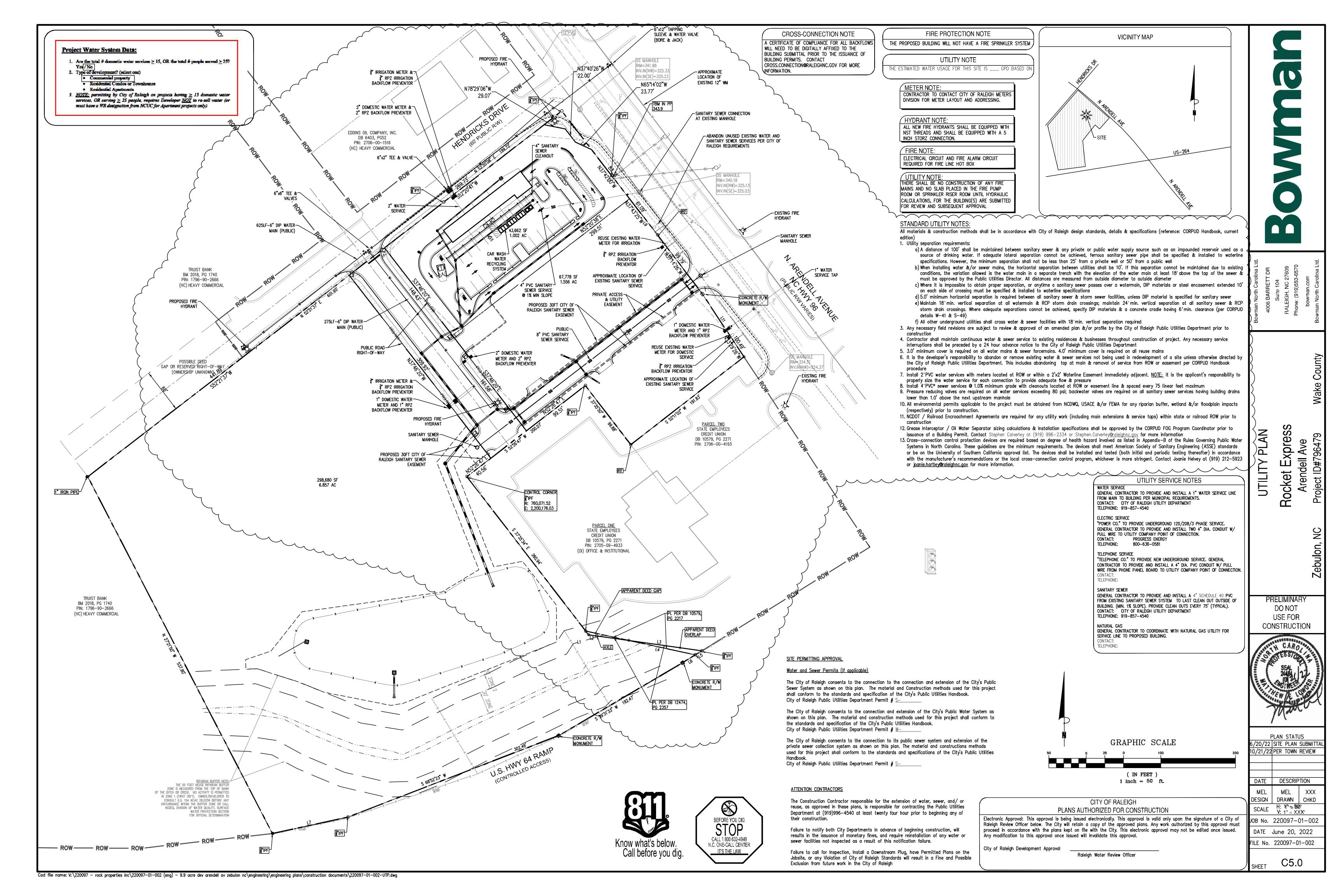
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PLAN STATUS

20/22	SITE PLAN	SUBMITTAL
/21/22	PER TOWN	REVIEW
)ATE	DESCRIP	TION
MEL	MEL	XXX
SIGN	DRAWN	CHKD
JOIN		
CALE	H: 1" = 50 V:)'
3 No.	220097-0	01-002
ATE	June 20,	2022
E No.	220097-0	1-002

C4.0



STRAW WITH NET NAG

STRAW WITH NET NAG

CONSTRUCTION NOTES

HEIGHT & WIDT- DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.

KEY RIP RAP INTO THE DAM FOR STABILIZATION.

STEP SEQUENCE

TREE PROTECTION FENCE MUST BE ON ITS OWN POLE AND CANNOT SHARE POLES WITH SIT FENCE.

OF MET OFF

SCHEMANICPALITIES DO NOT ALLOW GUTTER PROTECTION ON NARIO ROBOS, SILTEROS SHOULD RELIGIET WITH THESE CASES BAGES STICULD BE CLEANED CUITAN ER EVENY RAIN EVEN NIGORRAS NEEDED.

NOT TO SCALE

WARNING SIGN DETAIL

NOTE: FOR TREE PROTECTION ONLY

Q(10)

10.8 CFS

9.0 CFS

<u>FRONT VIEW</u>

NOTE: REMOVE SEDIMENT ACCUVULATION FROM BEHIND CHECK DAVIS TO PREVENT DAMAGE TO CHANNEL NEGLTATION. TUOM SHOULD DE VAINTANED THROUGH THE DAV.

STANDARD TREE PROTECTION DETAIL

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES

<u>INSTALLATION DETAIL</u>

STANDARD CHECK DAM

TEMPORARY

DITCH #1

DITCH #2

EROSION CONTROL MAT SHALL BE AS NOTED OR APPROVED

EQUAL.

SLOPE(%)

1.71%

1.94%

/TOP OF DITCH

TEMPORARY DIVERSION DITCH DATA BLOCK

REFER TO DETAIL SHEET FOR TEMPORARY DITCH DETAIL

1.5' | 1.0' | 7.0' | 2:1

TOP OF DITCH

EXTEND LINING TO EXTEND LINING TO

6" MIN. FREEBOARD



DETAIL

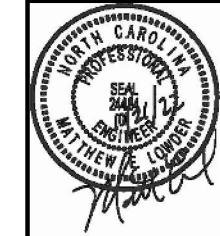
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EROSION COP

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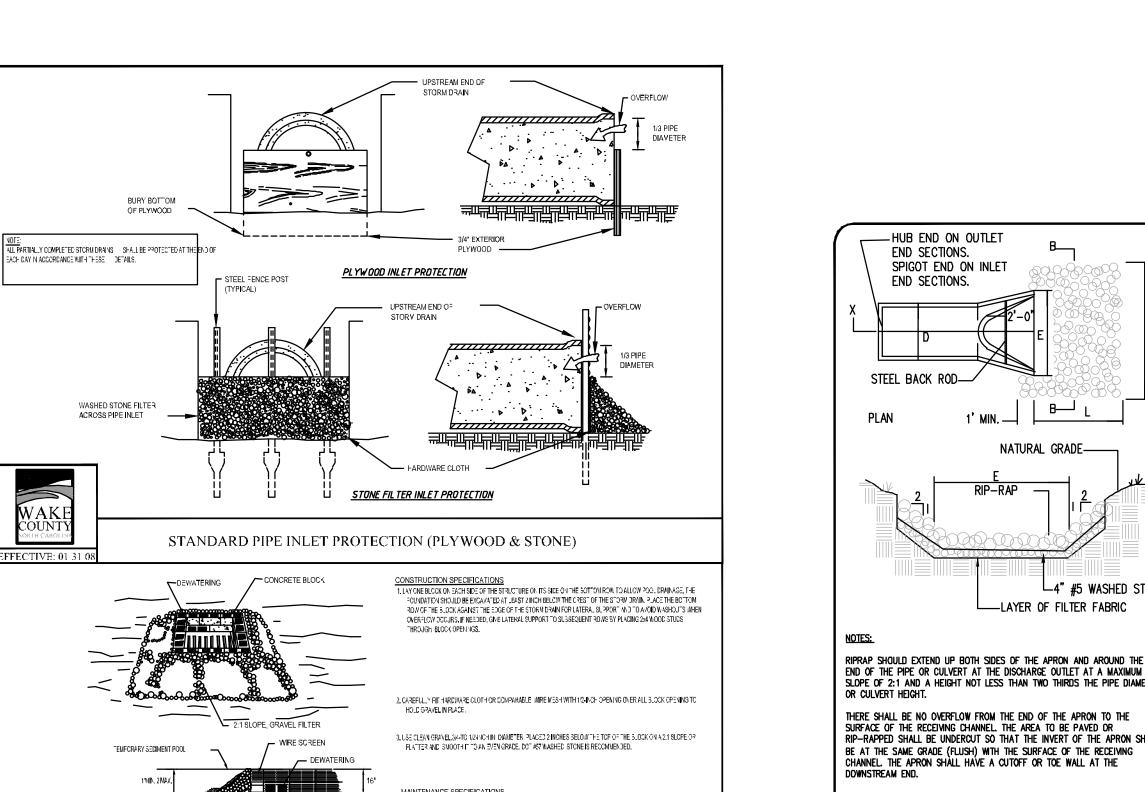
PLAN STATUS)/22|SITE PLAN SUBMIT 10/21/22 PER TOWN REVIEW

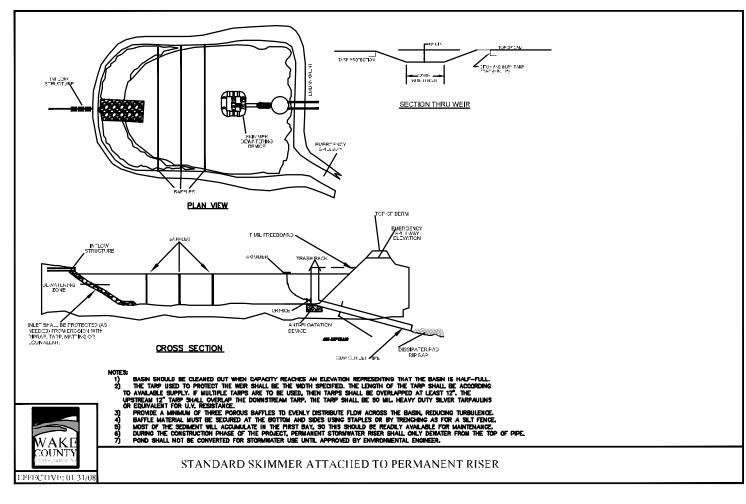
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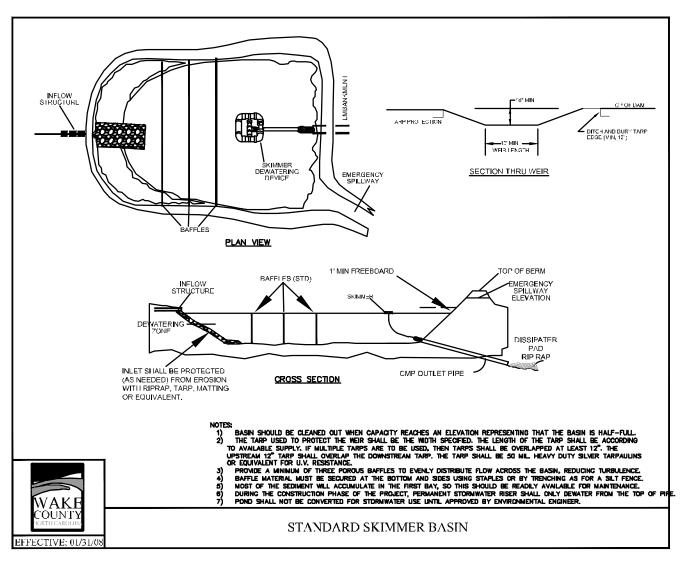
JOB No. 220097-01-002

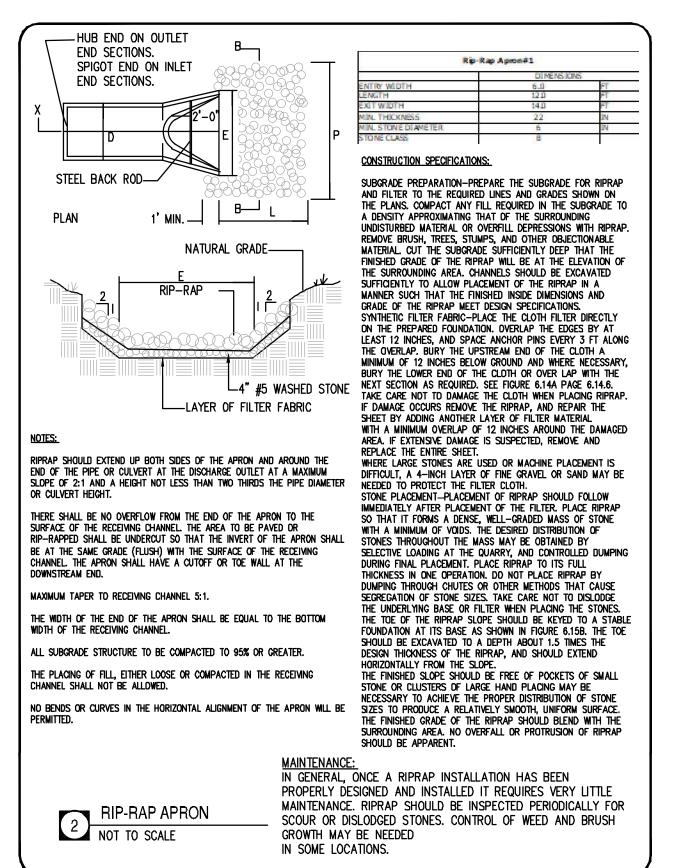
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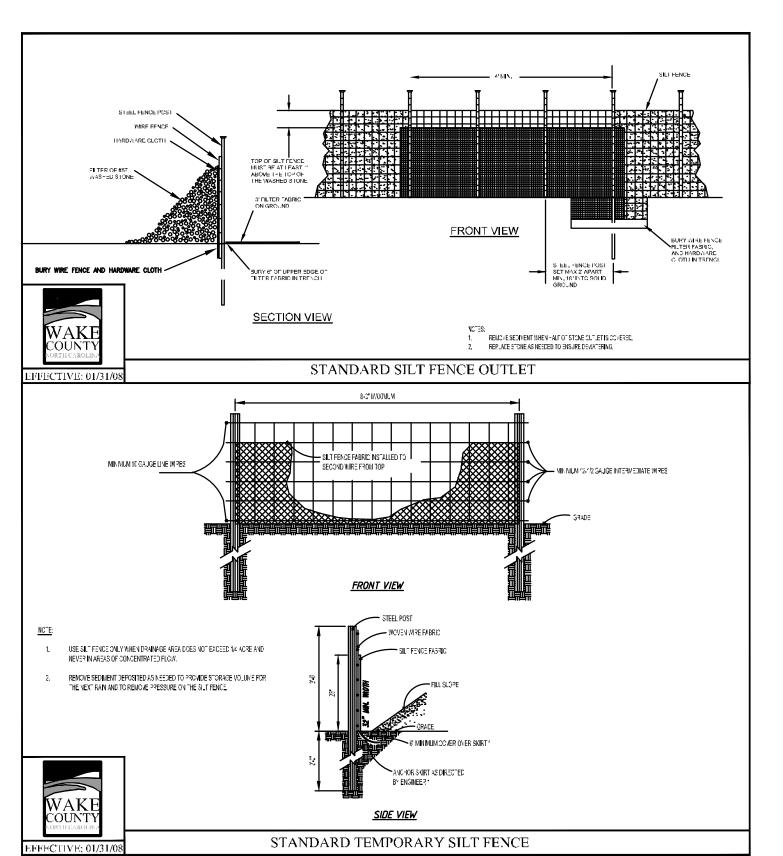
C6.0 SHEET

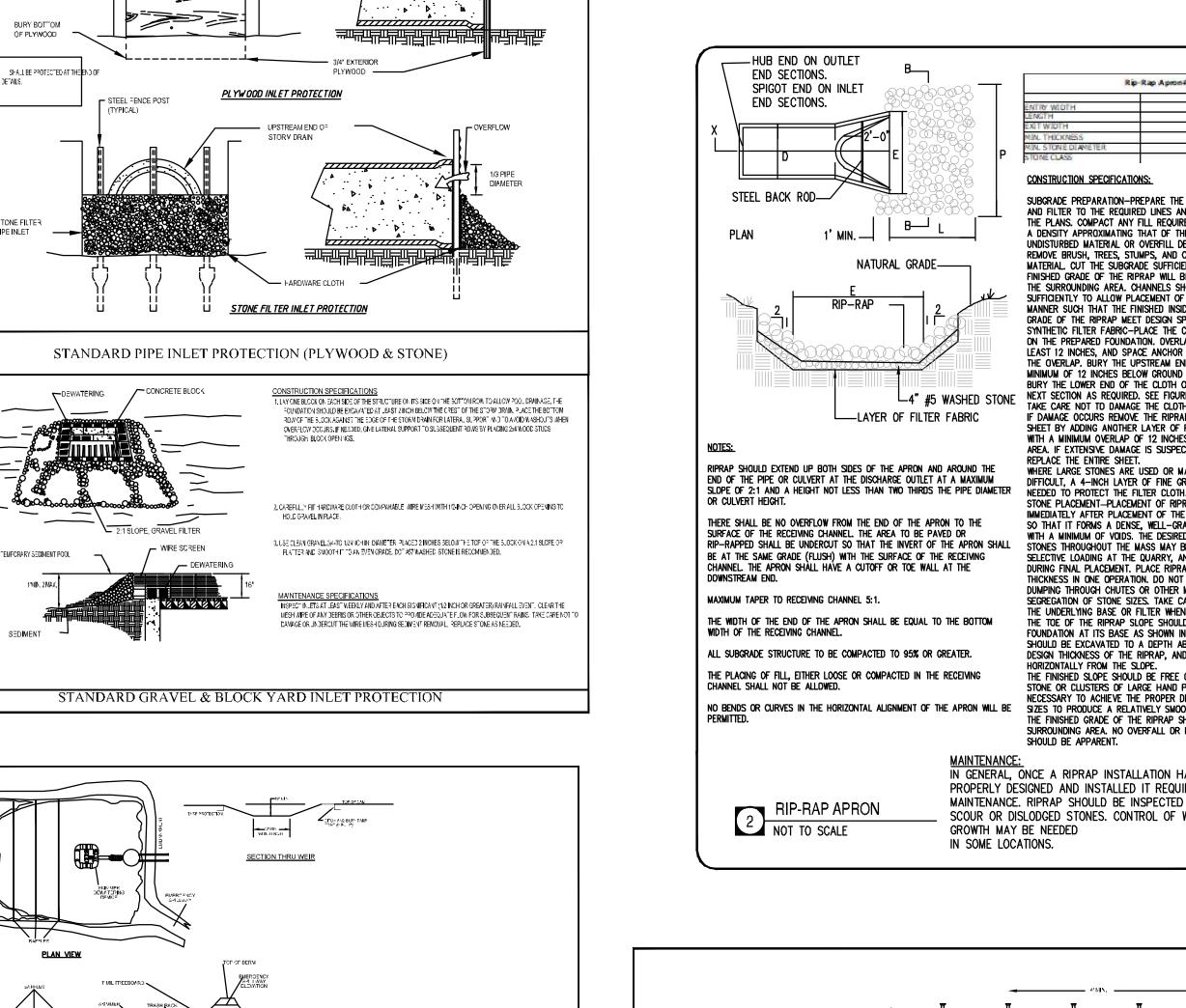


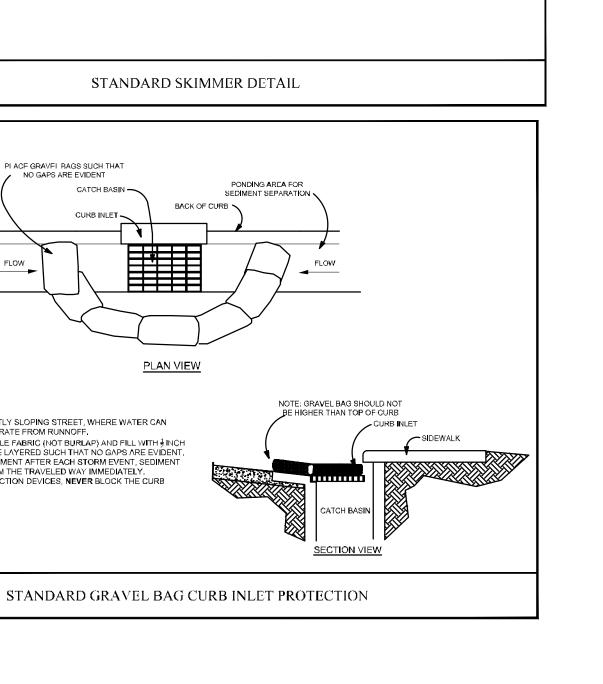












| 2.0 IN | 0.9 IN | 1.7 IN |

SKIMMER BASIN

BENDA TINSPECT DATTLES FOR REPAIR ONGE A WEEK AND AFTER EACH

CROSS SECTION

COIR MESH OR SIMILAR, STAPLED OR TRENCHED INTO BOTTOM OR SIDE

SECTION VIEW AT OPENING

SKIMMER CONTACT

EFFECTIVE: 01/31/08

(RADIATOR HOSE)

PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH \$ INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

WHEN INSTALLING CURB INLET PROTECTION DEVICES, NEVER BLOCK THE CURB

PLACE GRAVEL BAGS SUCH THAT NO GAPS ARE EVIDENT

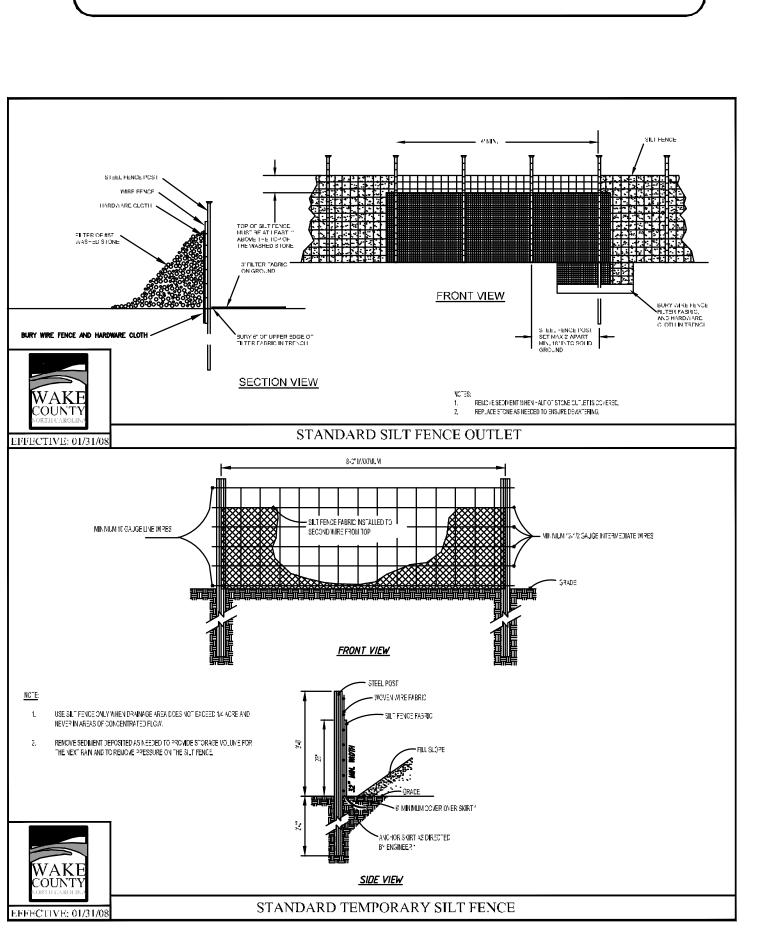
OUTLET END: CONNECTION TO OUTLET PIPE OR RISER

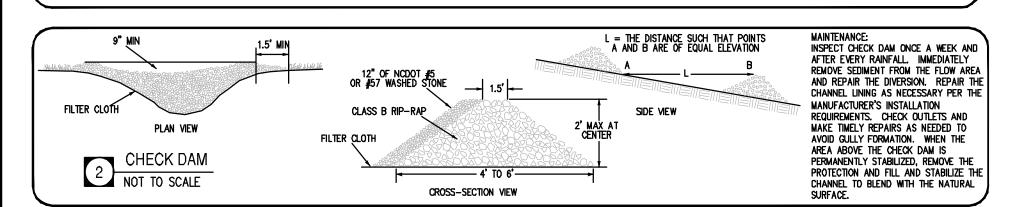
INFORMATION

J.W. FAIRCLOTH & SONS INC F.O. BCX 757 HILLSBOROLGH, NC 27278 STANDARD BAFFLES DETAIL

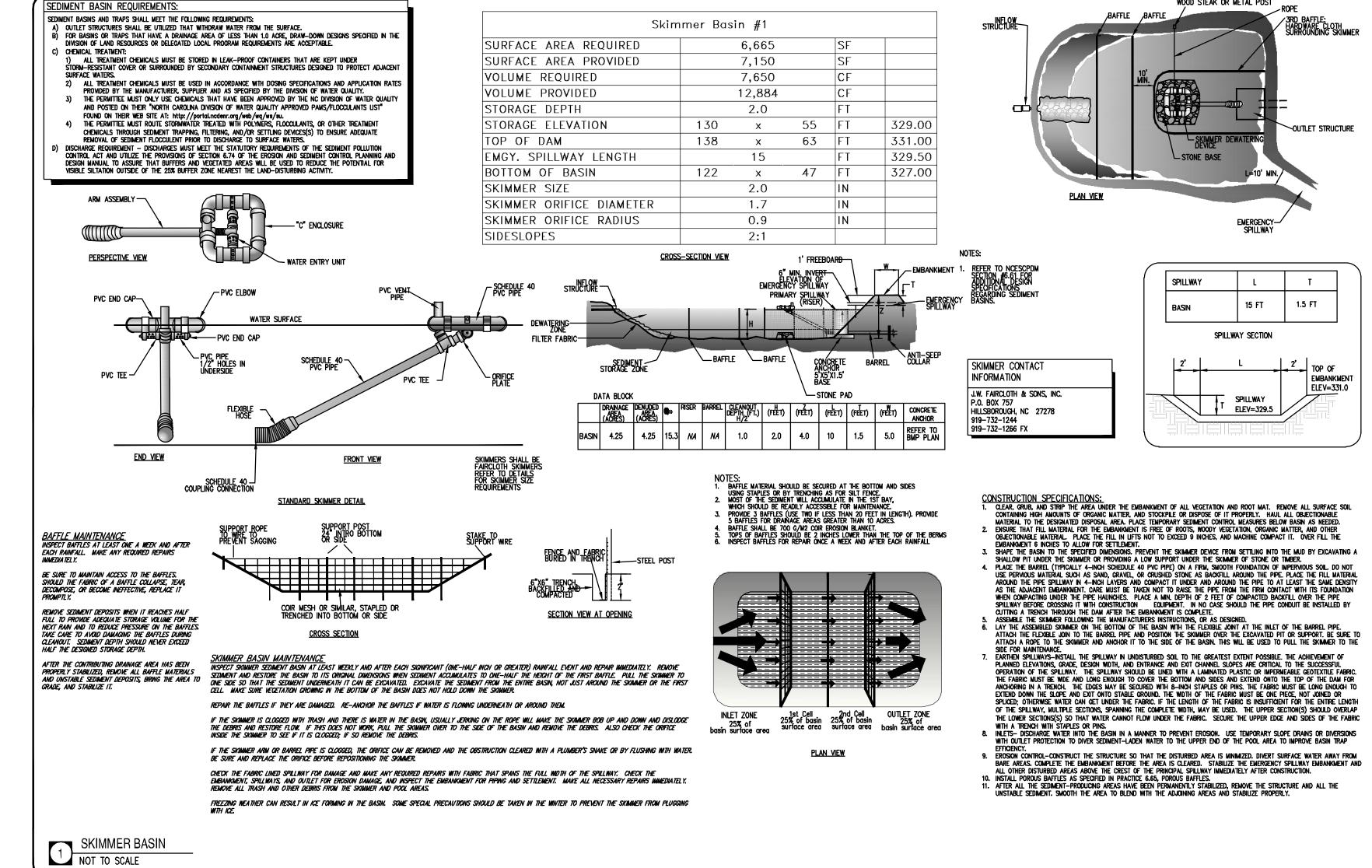
BARREL PIPE LONGER THAN SHOWN.

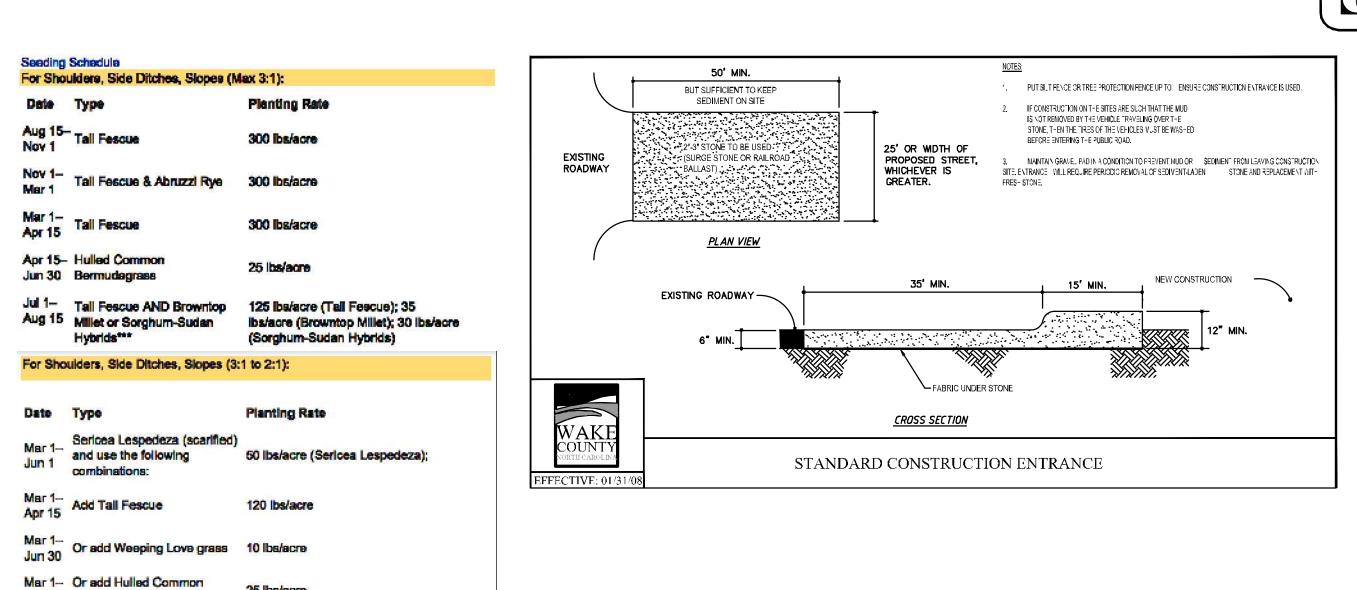
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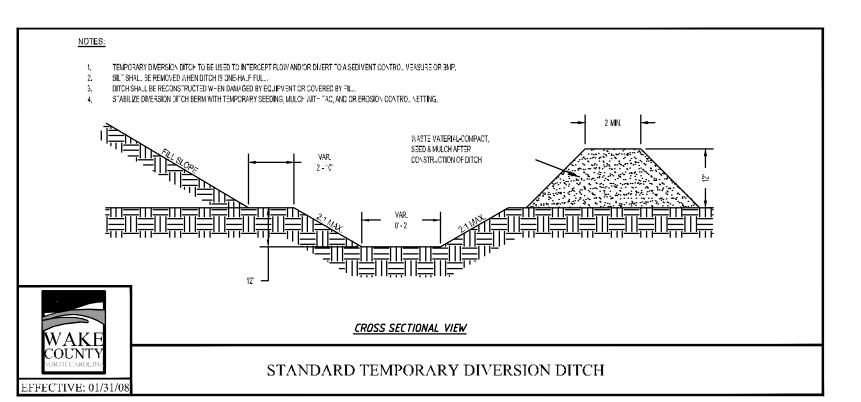


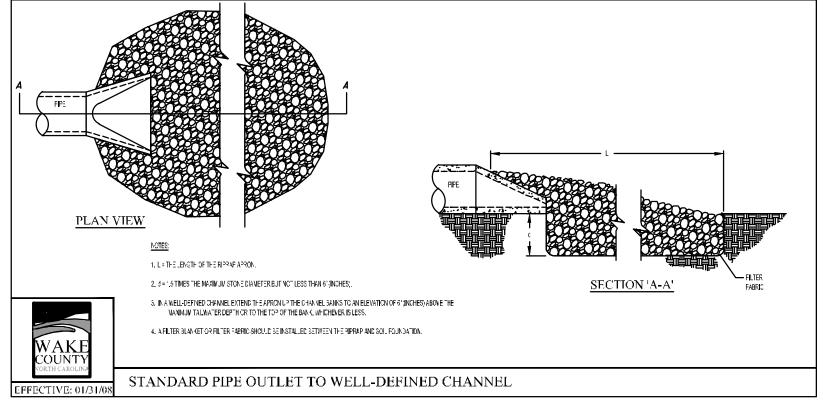


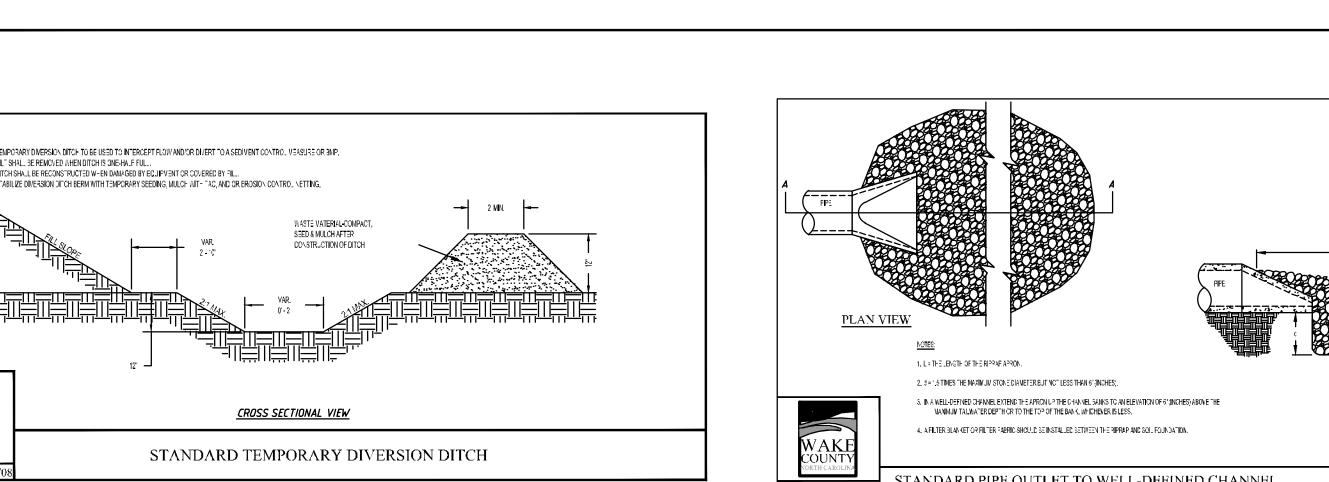
remporary se	EEDING SPECIFICATIONS/SCHEDU	LE	<u>SEEDBED PREPARATION:</u>	
Date March — Oct.	Type Browntop Millet	Planting Rate 40 lbs/acre	 CHISEL COMPACTED AREAS A CONDITIONS, IF AVAILABLE. 	and spread topsoil three inches deep over adverse soil
Nov Feb.	Winter Rye	120 lbs/acre	2. RIP THE ENTIRE AREA TO SI	IX INCHES DEEP.
	EEDING SPECIFICATIONS/SCHEDU	<u>LE</u>	3 DEMONE ALL LONCE DOOK I	ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE
FOR SHOULDERS, S Date	SIDE DITCHES, SLOPES (MAX 3:1) Type	Planting Rate	REASONABLY SMOOTH AND	
Aug 15 – Nov 1 Nov 1 – Mar 1 Mar 1 – Apr 15	Deer Tongue Deer Tongue & Abruzzi Rye Deer Tongue	300 lbs/acre 300 lbs/acre 300 lbs/acre	4. APPLY AGRICULTURAL LIME, SOIL (SEE SEEDING MIXTURE	FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH $\mbox{E}\xspace{.}$
	Hulled Common Bermuda Grass Deer Tongue & Browntop Millet or Sorghum—Sudan Hybrids	25 lbs/acre 240 lbs/acre—Deer Tongue; 35 lbs/acre Browntop Milet	5. CONTINUE TILLAGE UNITL A PREPARED FOUR TO SIX IN	WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS CHES DEEP.
	a sorgium sudan nyunds	30 lbs/acre Sorghum-Sudan Hybrids	 SEED ON A FRESHLY PREPA EQUIPMENT OR CULTIPACK 	red seedbed and cover seed lightly with seeding After seeding.
Date	SIDE DITCHES, SLOPES (3:1 - 2:1) Type	Planting Rate	7. MULCH IMMEDIATELY AFTER	SEEDING AND ANCHOR MULCH.
Mar 1 — Jun 1	Switchgrass & use the following combinations:	50 lbs/acre (Switchgrass)		G AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE SIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED,
Mar 1 — Apr 15 Mar 1 — Jun 30	Add Deer Tongue Or add Julled Common	240 lbs/acre 25 lbs/acre	RE-ESTABLISH FOLLOWING	THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
Jun 1 — Sep 1	Bermuda Grass Deer Tongue & Browntop Millet or Sorghum—Sudan Hybrids	240 lbs/acre Deer Tongue 35 lbs/acre Browntop Milet	AFTER PERMANENT COVER	ITAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZAT IS ESTABLISHED.
	0.11	30 lbs/acre Sorghum-Sudan Hybrids	<u>SEEDING MIXTURE:</u>	
Sep 1 – Mar 1	Switchgrass & Deer Tongue	70 lbs/acre Switchgrass 240 lbs/acre Deer Tongue	AGRICULTURE LIMESTONE:	2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
Nov 1 – Mar 1	Add Abruzzi Rye	25 lbs/acre	Fertilizer: Superphosphate:	1,000 LBS/ACRE - 10-10-10 500 LBS/ACRE - 20% ANALYSIS
CONSULT S&EC EN OTHER ALTERNATIV ABOVE VEGETATION	NGINEER FOR ADDITIONAL INFORMATION (NES FOR VEGETATION OF DENUDED AREA N RATES ARE THOSE THAT DO WELL UN	CONCERNING S. THE DER LOCAL	MULCH: ANCHOR:	2 TONS/ACRE - 20% ANALTSIS 2 TONS/ACRE - SMALL GRAIN STRAW ASPHALT EMULSION AT 400 GALS/ACRE
	R SEEDING RATE COMBINATIONS ARE PO RESEED ACCORDING TO OPTIMUM SEASO		FOR VEGETATION OF DENUDED	ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DESCRIPTION OF THE ABOVE OF THE ABOVE ADDITIONATIONS ARE DESCRIPTION.
	NT VEGETATION. DO NOT ALLOW TEMPO		WELL UNDER LOCAL CONDITIONS	; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.
TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.		*** TEMPORARY: RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW MORE THAN 12" IN HEIGHT BEFORE MOWING; OTHERWISE, FESCUE MAY BE SHADED OUT.		
TE	MPORARY SEEDING		DEL VILL MOTHING, VITALIMIDE, II	LOVOL MITT DE OFFIDED OVI.













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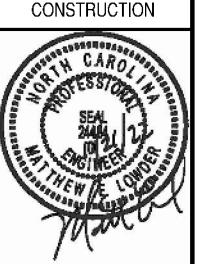
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PLAN STATUS						
0/22	SITE	PLAN	SU	BMIT	ΓAL	
21/22	PER	TOWN	RE	VIEW		
ATE	DESCRIPTION					
MEL	MEL			XXX		
SIGN	DRA	CHKD				
CALE	H: V:					
No.	2200	97-	01-	-002	2	
ATE	June	20,	20	22		
No.	2200	97-0	1–	002		
EET		6.	1			

SHEET

Jun 30 Bermudagrasa

may be sheded out.

Mullet or Sorghum-Sudan

Tall Fescue AND Browntop 120 lbs/acre (Tall Fescue); 35 lbs/acre

25 lbs/acre

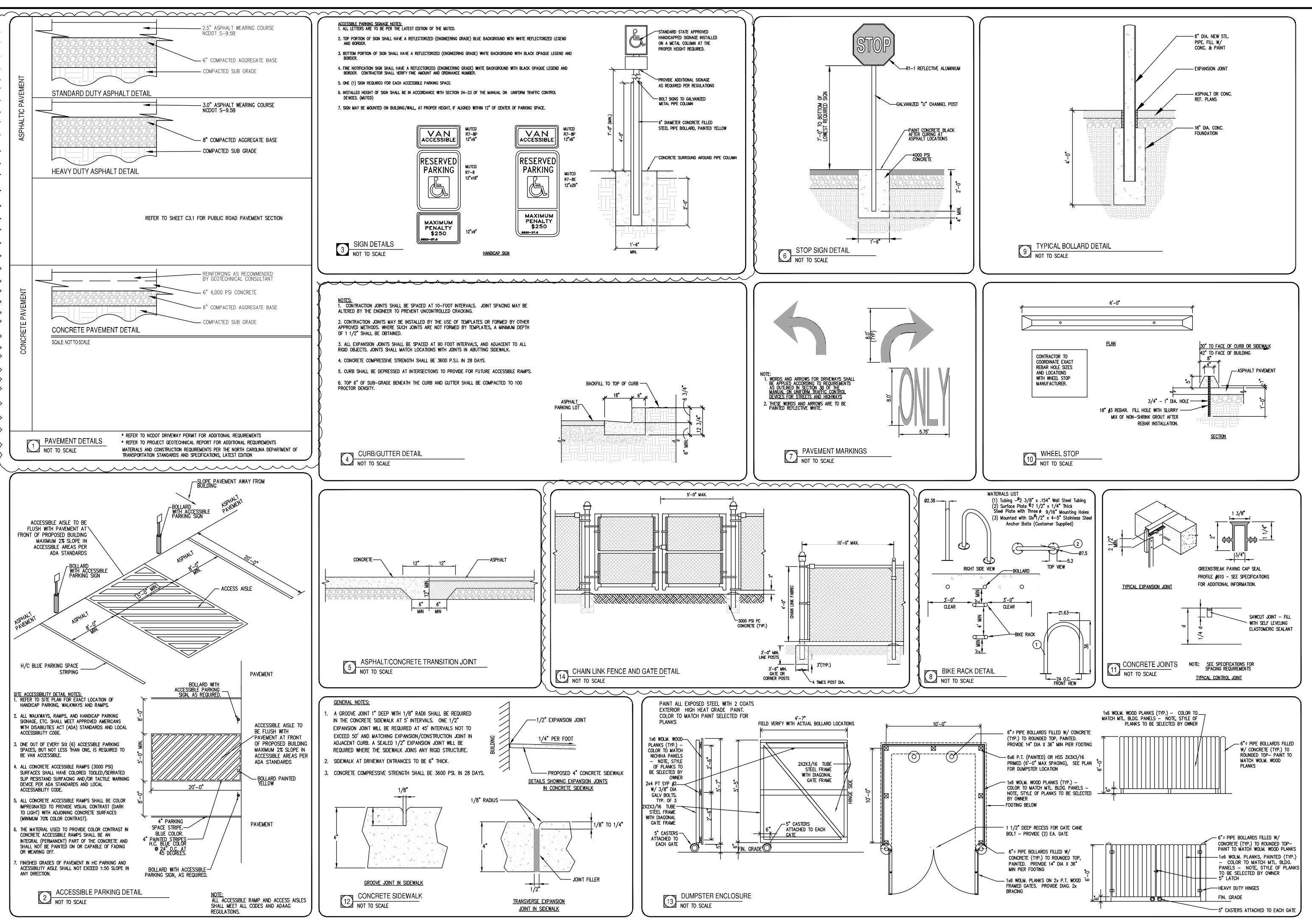
Consult Wake County Soil & Water Conservation District or NC State Cooperative Extension for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions; other seeding rate combinations

*** TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing; otherwise, fescue

(Browntop Mullet); 30 lbs/acre (Sorghum-Sudan Hybrida)

Ibs/acre (Tall Fescue)

70 lbs/acre (Sericea Lespedeza); 120



Suite 104 RALEIGH, NC 27609 Phone: (919)553-6570 bowman.com

ETAIL

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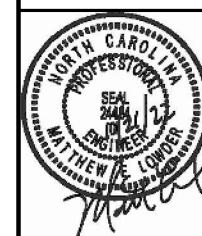
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CONSTRUC

Rocket Express
Arendell Ave

INIA DV

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



PLAN STATUS

6/20/22 SITE PLAN SUBMITTAI

10/21/22 PER TOWN REVIEW

DATE DESCRIPTION

MEL MEL XXX

DESIGN DRAWN CHKD

SCALE H: 1" = 450"
V: 1" = XXX'

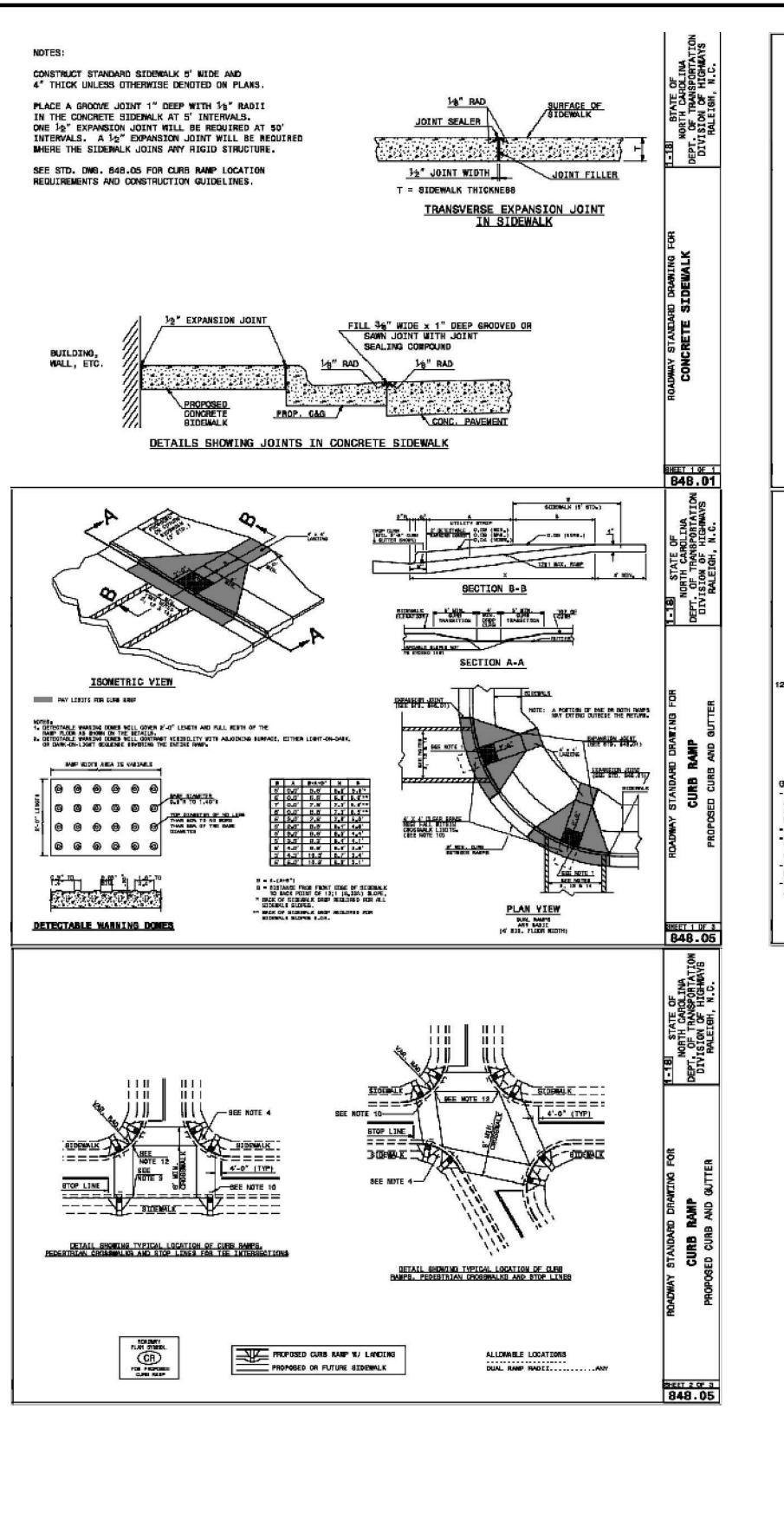
JOB No. 220097-01-002

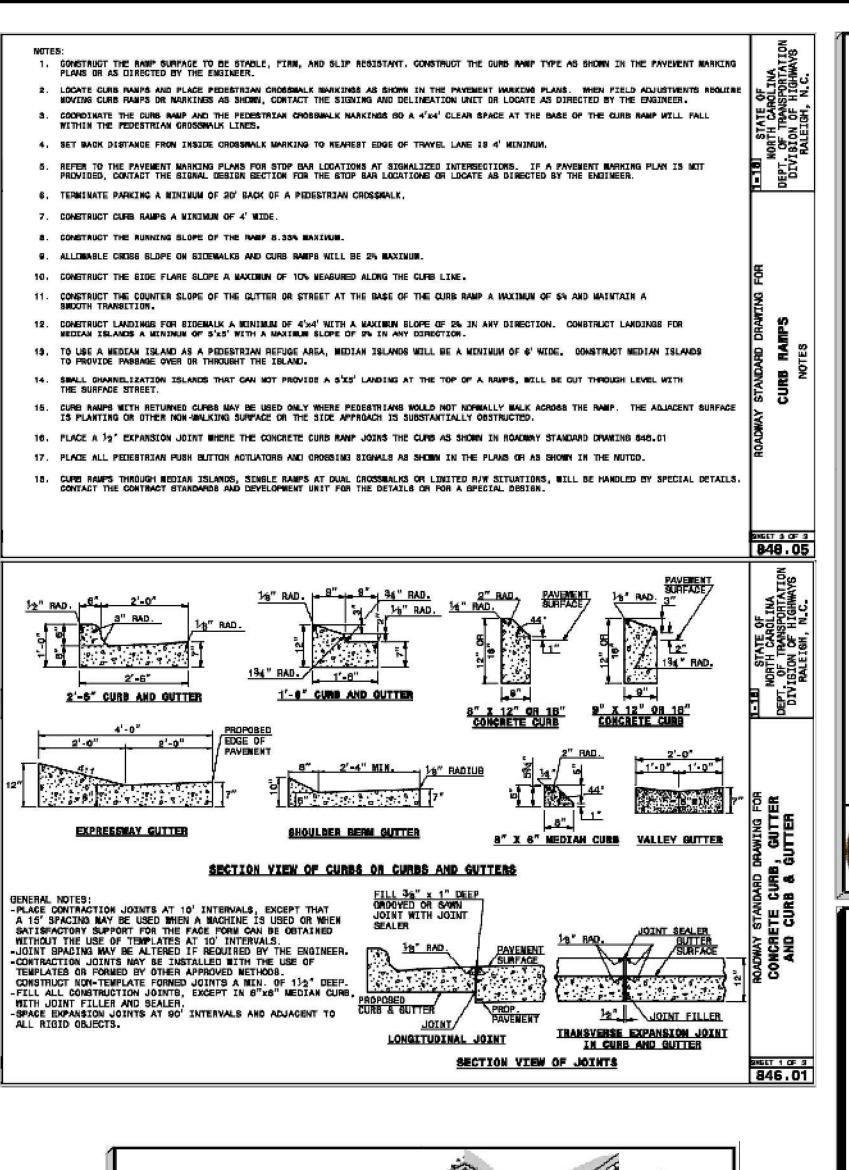
DATE June 20, 2022

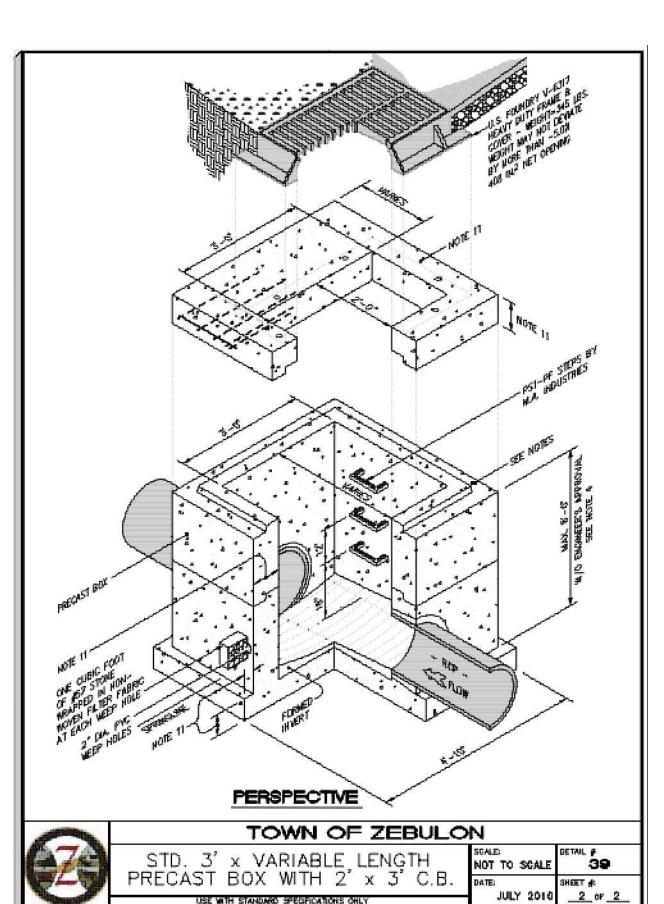
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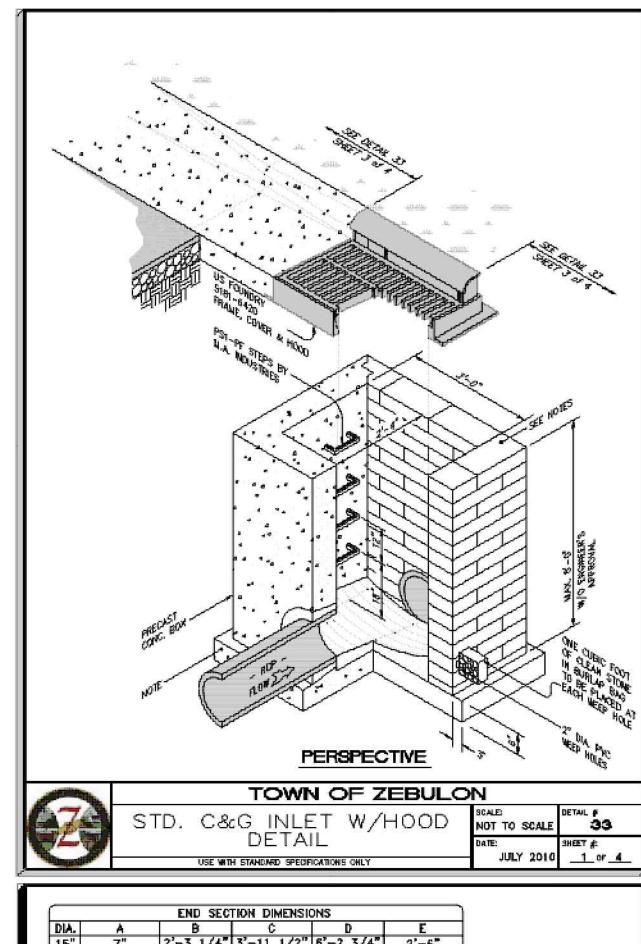
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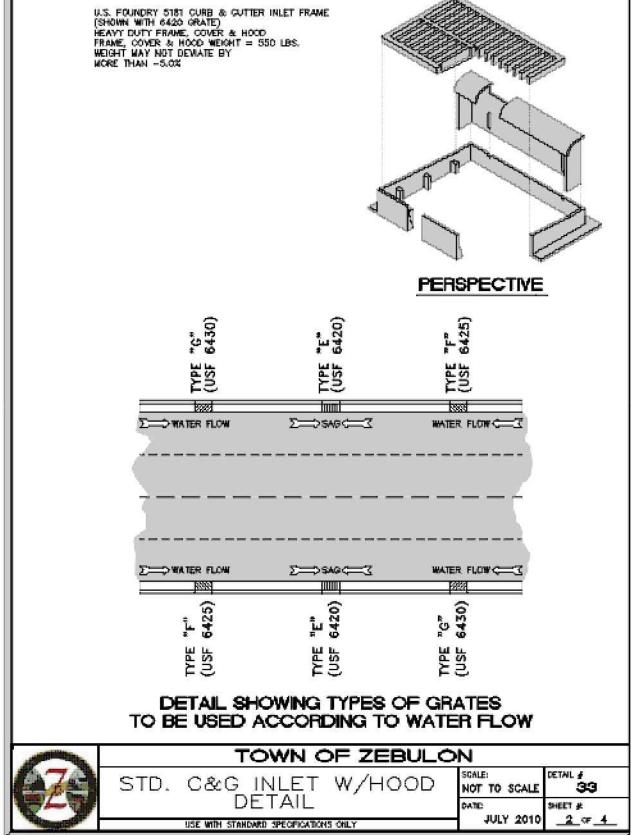
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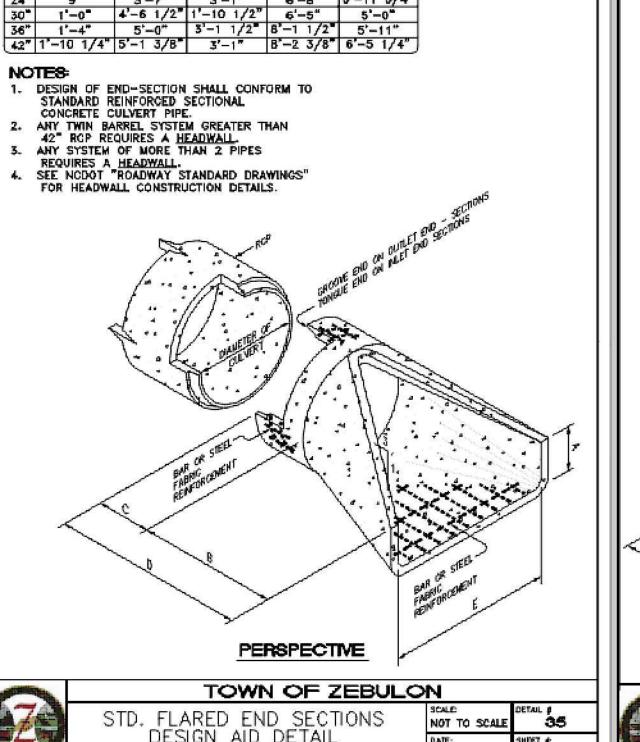






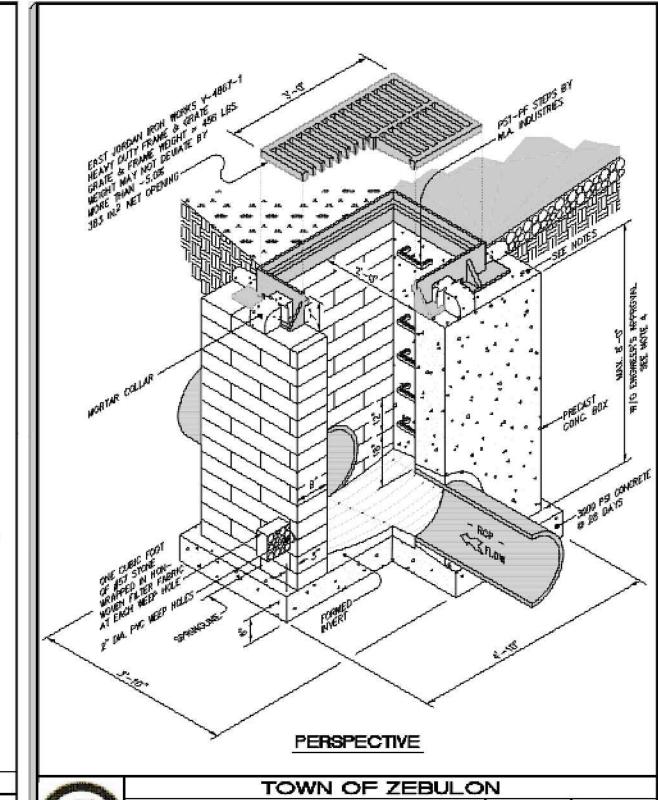






USE WITH STANDARD SPECIFICATIONS ONLY

JULY 2010



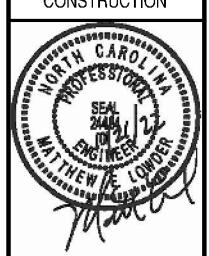
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DROP INLET

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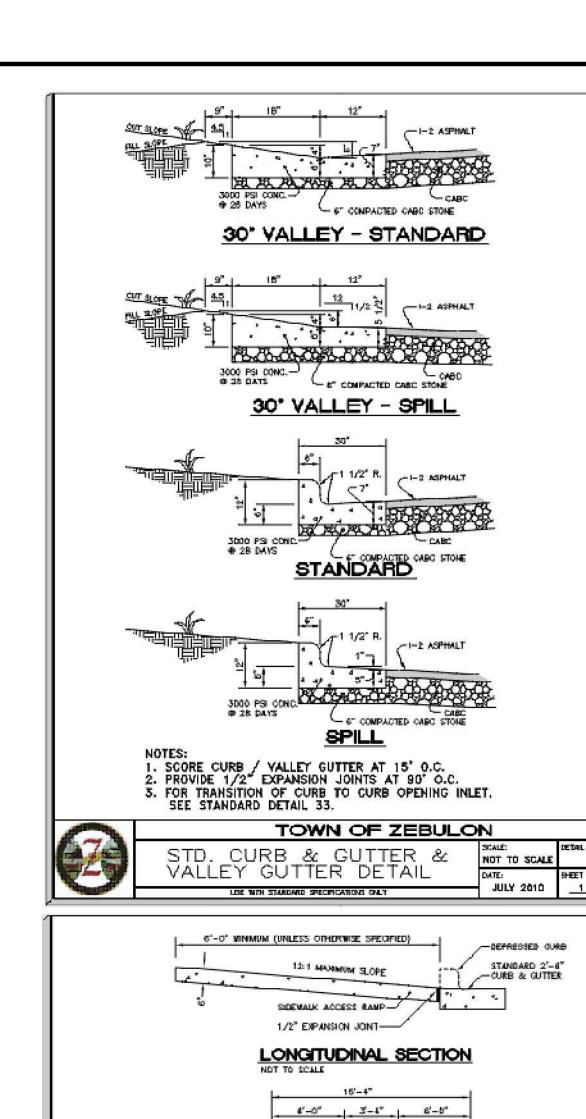
PRELIMINARY DO NOT USE FOR CONSTRUCTION



NOT TO SCALE 34

JULY 2010 __1_of_1

	PLAN STAT				
	SITE PLAN				
10/21/22	PER TOWN	REVIEW			
DATE	DESCRIPTION				
MEL	MEL	XXX			
DESIGN	DRAWN	CHKD			
SCALE	SCALE H: 1/" = 450" V: 1" = XXX'				
JOB No.	220097–	01-002			
DATE	June 20,	2022			
FILE No.	220097-0	1-002			
SHEET	C6.3	A			



VARI, SLOPE NOT -TO EXCEED 12:1

SINGLE ACCESS

SINGLE HANDICAP

RAMP DETAIL

TOWN OF ZEBULON

MAXIMUM SLOPE = 12:1 TINTED BLACK

YARIABLE SLOPE - NOT TO EXCEED 12:1

A BRICK PAVERS...

MATCH WIDTH OF SZW

BUT 3'-4" MIN. WIDTH "

SECTION A-A

HE DEPRESSED CURR ALREADY EXISTS, DO NOT CHANGE OUT UNLESS DIRECTED OTHERWISE BY TOWN ENGINEER

FIRST TWO FEET SHALL BE HANDICAP PANELS WITH DIMPLES BY ALERT CAST

OR APPROVED EQUAL -THE REMAINING FOUR FEET SHALL BE DYED CONCRETE WITH 70% CONTRAST

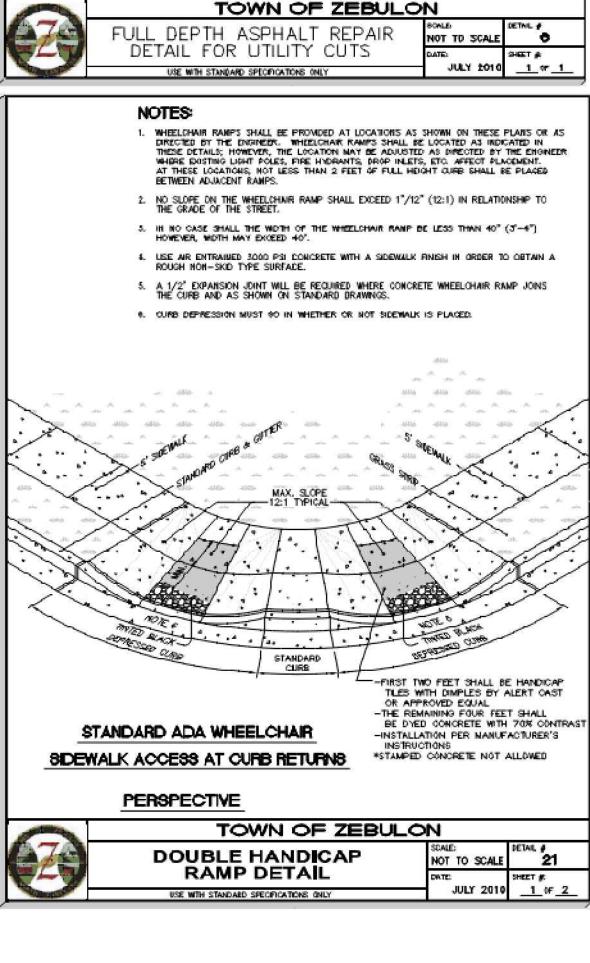
NOT TO SCALE 20

SHEET #

-INSTALLATION PER MANUFACTURER'S

ISTAMPED CONCRETE NOT ALLOWED

ELEVATION OF SINGLE ACCESS RAMP



- 2" MIN. 1-2 BITUMINOUS PLANT MIX - COMPACTED

- 6" H-BINDER COMPACTED

FILL CONCRETE (NOTE 6)

SECOND "PATCHING" CUT FOR PAYDMENT REPAR!

PIPE DWMETER # LESS THAN 14" 14" TO 36" MORE THAN 36"

BEFORE PAVEMENT REPAIRS ARE MADE.

EXISTING PAYING

DMULSIRED ASPHALT (CRS-1)

OUT PAYING HERE FOR TRENCH

FOR REPAYING

SECTIONAL VIEW

PAVEMENT REPAIRS SHALL HAVE 6" COMPACTED H-BINDER AND 2" TOPPING

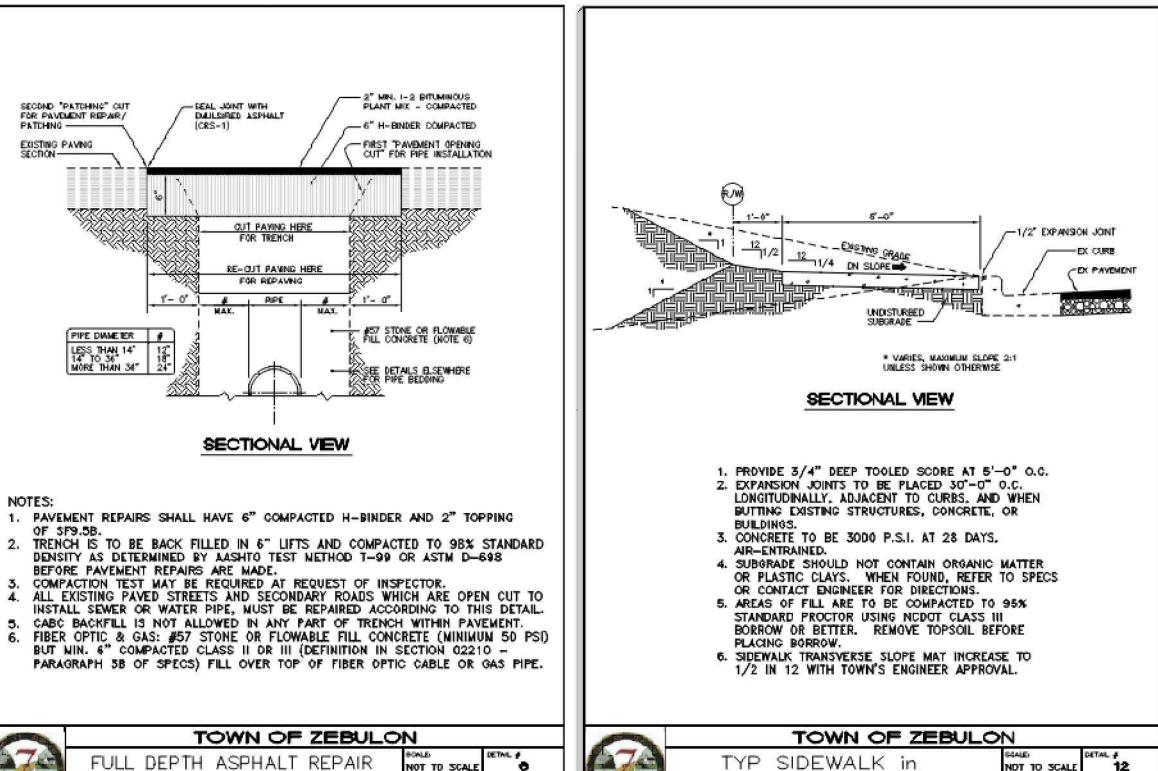
DENSITY AS DETERMINED BY AASHTO TEST NETHOD T-99 OR ASTM D-698

INSTALL SEWER OR WATER PIPE, MUST BE REPAIRED ACCORDING TO THIS DETAIL.

PARAGRAPH 5B OF SPECS) FILL OVER TOP OF FIBER OPTIC CABLE OR GAS PIPE.

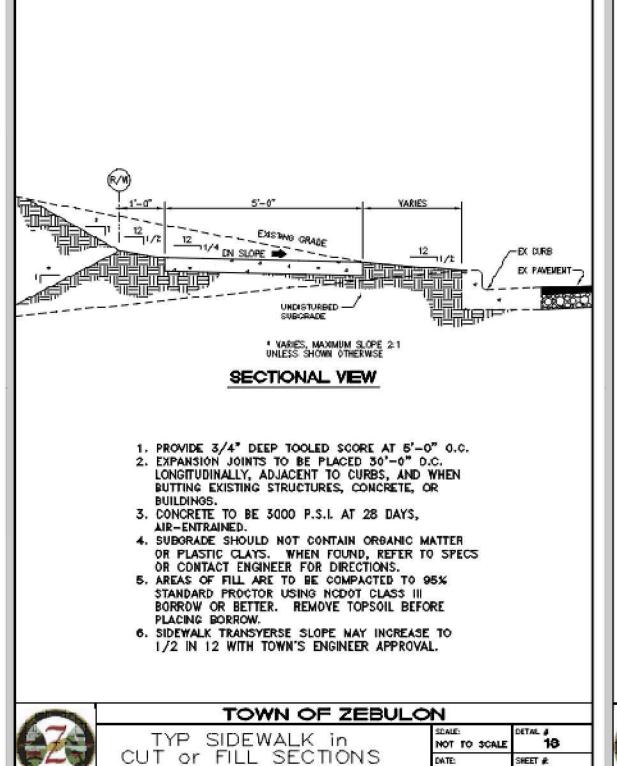
CABC BACKFILL IS NOT ALLOWED IN ANY PART OF TRENCH WITHIN PAVEMENT.

BUT MIN. 6" COMPACTED CLASS II OR III (DEFINITION IN SECTION 02210 -



DOUBLE HANDICAP

RAMP DETAIL



HANDICAP PARKING

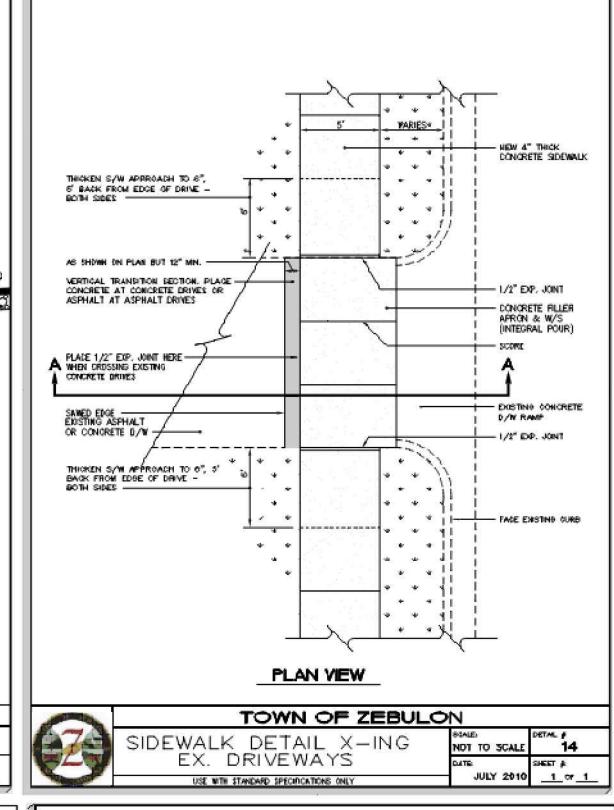
STALL DETAIL *

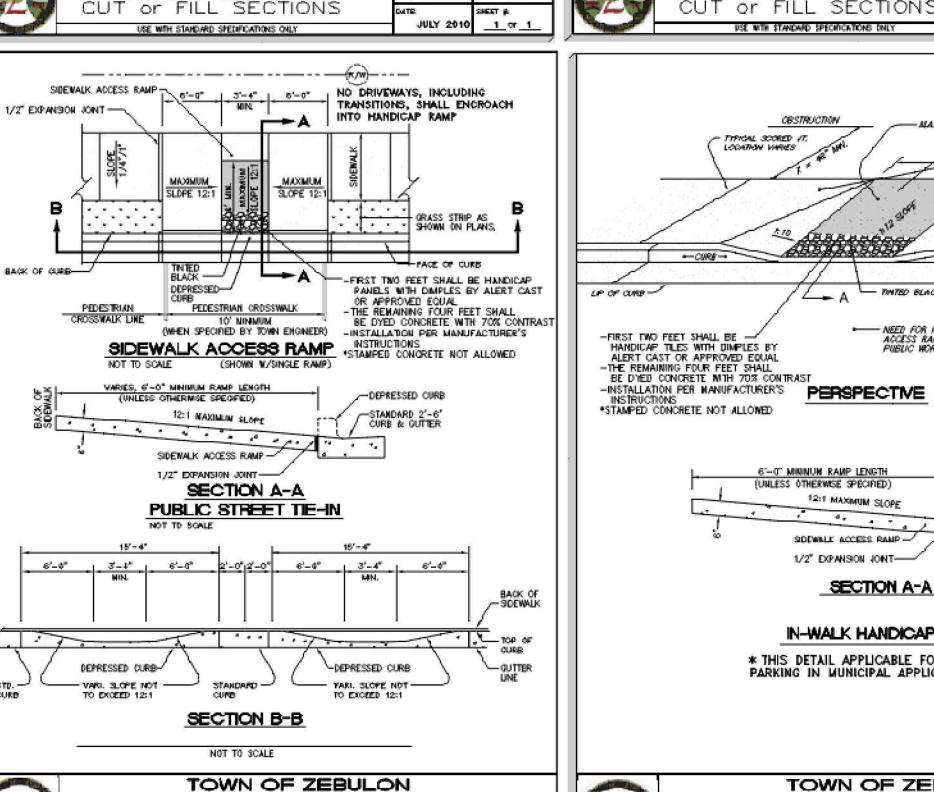
NOT TO SCALE

JULY 2010

22

SHEET #

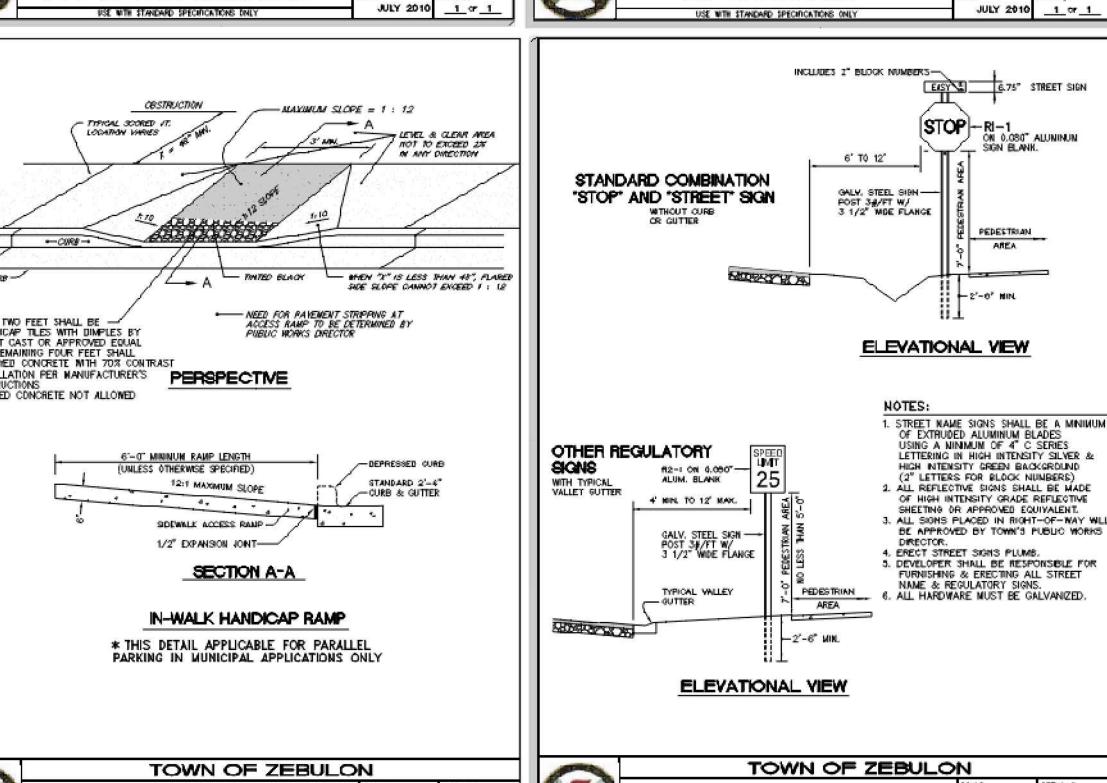


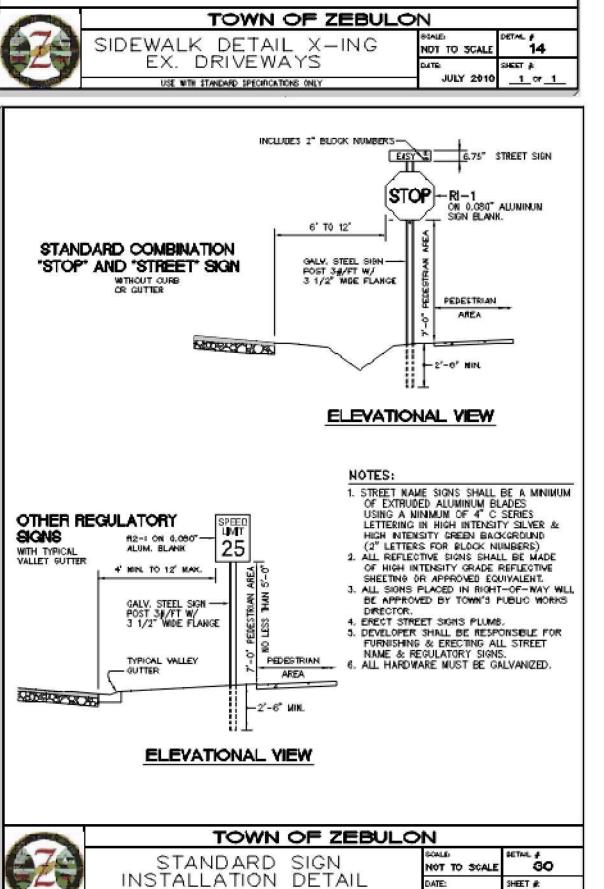


NOT TO SCALE 21

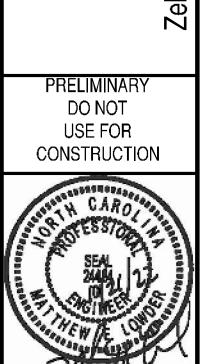
SHEET #

OT 10 SCALE 12





JULY 2010



PLAN STATUS								
6/20/22	SITE	PLAN	SUBMITTAL					
10/21/22	PER	TOWN	REVIEW					
DATE	DESCRIPTION							
MEL	М	IEL	XXX					
DESIGN	DRAWN		CHKD					
SCALE		ሰ" = 						
JOB No.	2200	ງ97–	01-002					
DATE	June	20,	2022					
FILE No.	2200	097-0	1-002					
•			•					

C6.3B

SHEET

Cad file name: V:\220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-51T.dwg

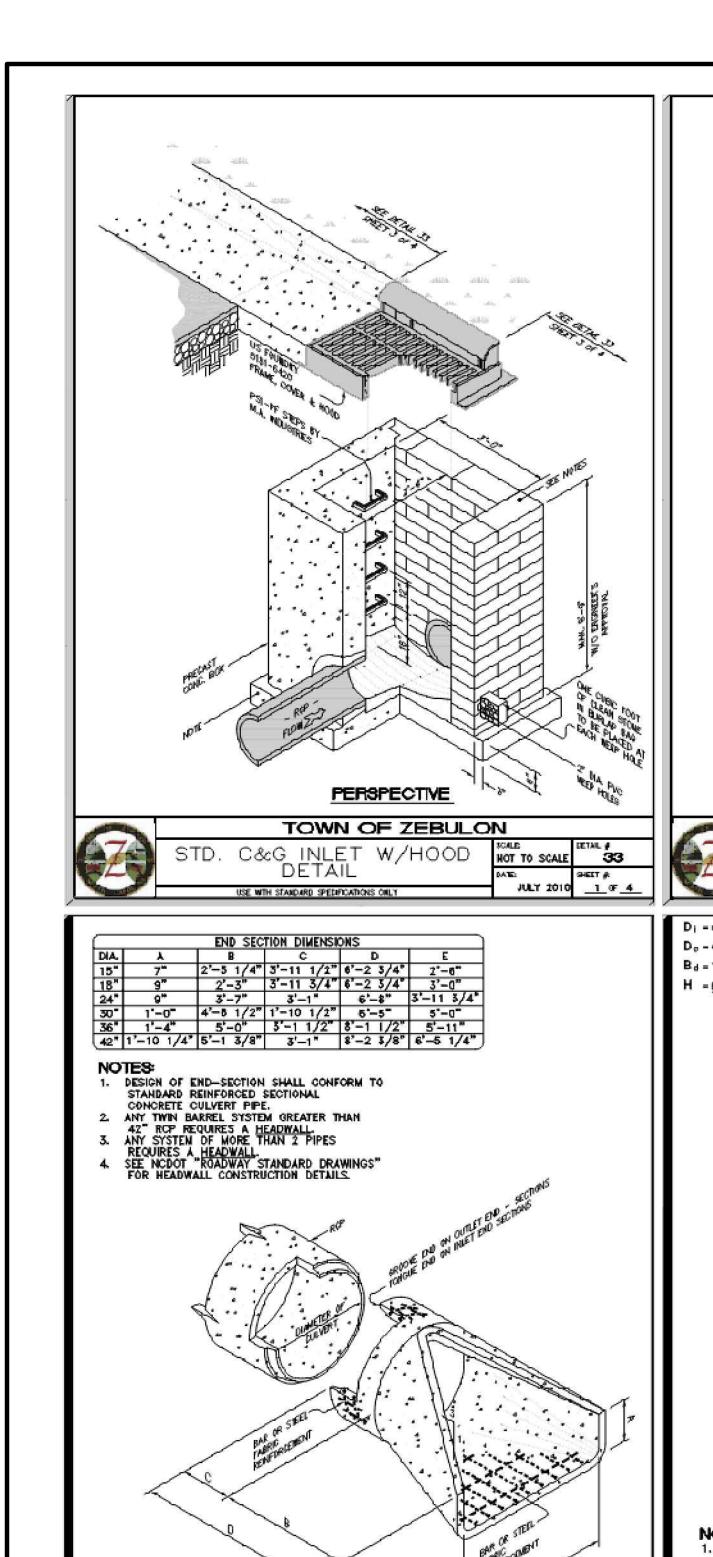
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DETAIL

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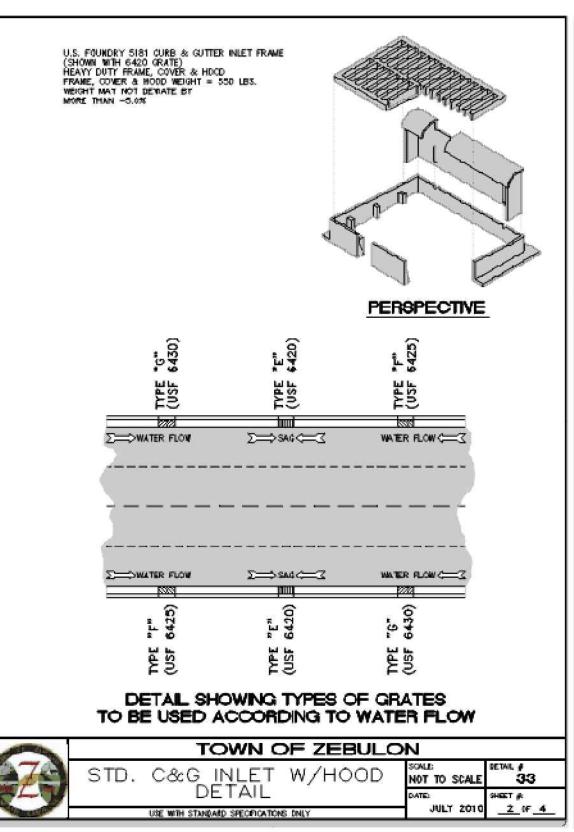


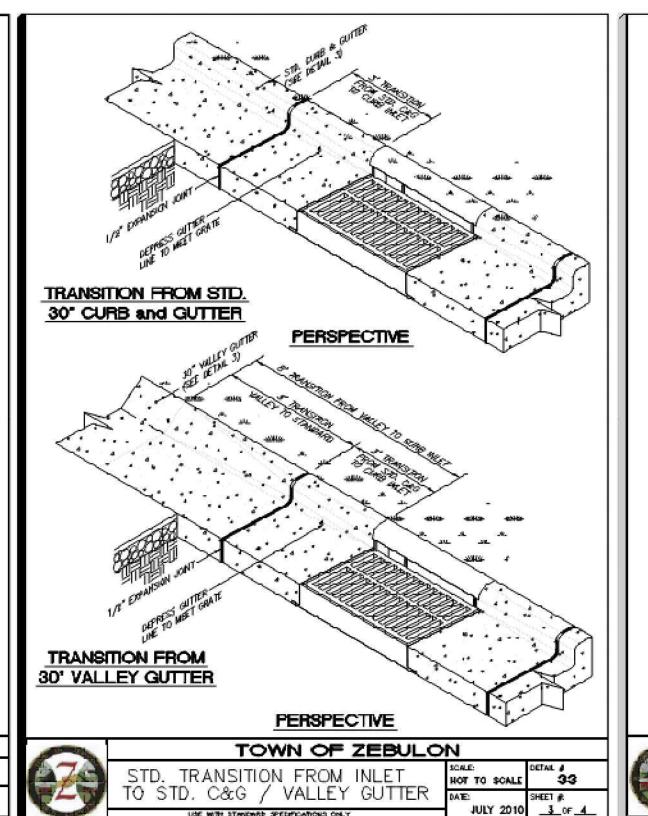
PERSPECTIVE

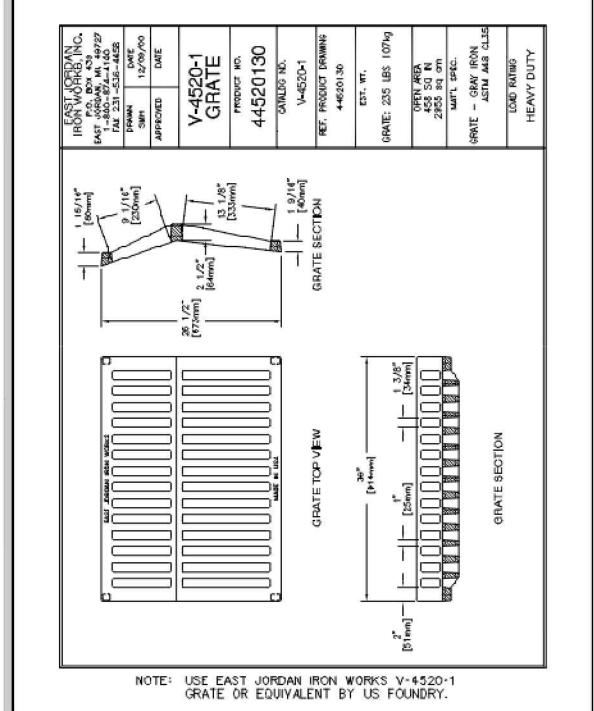
DESIGN AID DETAIL

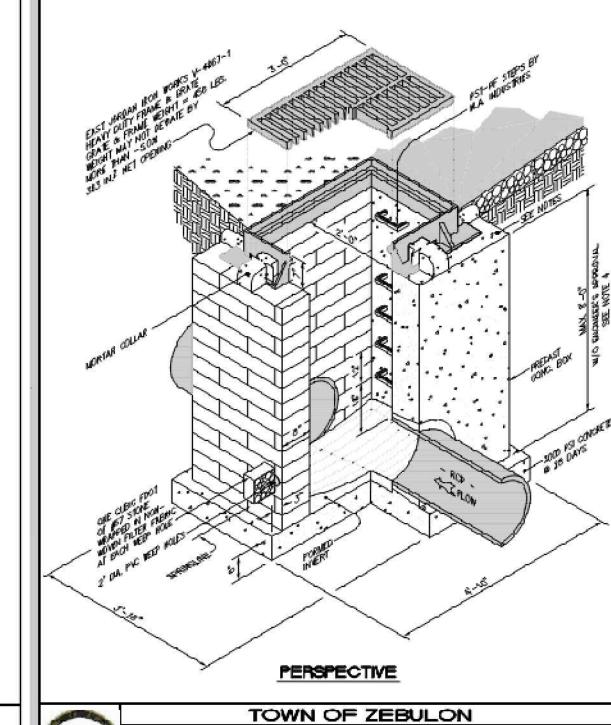
USE WITH STANDARD SPECIFICATIONS ONLY

TOWN OF ZEBULON









	TOWN OF ZEB	ULON	
A7A	2×3	SCHLE: NOT TO SCALE	DETNL # 34
	DROP INLET	DAMES A-COA	SHEET &
The state of the s	USE WITH STANDARD SPECIFICATIONS DNLY	JULY 2010	_1_0r_1

D) = INSIDE DIAMETER OF PIPE	PIPE	MAX.	MAX. BURY	MAX. BURY
Do - Outside diameter of pipe	Di	Bq	CLASS III (0.01 ORACK)	(CLASS IV (O.OT GRACK)
B _d = TRIDICH WIDTH	447			
H = BACKFILL COVER ABOVE	15"	4	9.5°	14.5' 15.0'
TOP OF PIPE	24"	3	120'	23.5"
	34"	5.5'	10.0	17.0
	34"	6'	10.5'	18.0'
	42"	6.5	13.0"	19.0'
<u> </u>	44"	7	13.5"	20.0"
	54"	đ′	13.0	18.5'
> ✓ M = m20 = m 22 = A	60"	a	11.0*	18.0"
	72	10"	13.0	19.0"
LOWER SIDE SECTION SHEET SIDE MODULE BEDDING ENGLISH STEED SHEET MODULE BEDDING	AND DAMED	HIS TA	BLE ASSUMES	
第19 c. 1m	CENTRAL AND SERVICES	HSTALL	ATION & NO :	STONE BEDDING
TO SOLUTION OF THE TANK THE TA	ALP ON	La.	Will Sold I	
TO THE WAY SET WEEK IN	450	™E.	all of	ς
MODIF BEDDING DO 1/2		OF		(A)
COLL MOLON TO THE PROPERTY OF	^	110	Control History	
MODIF BEDDING DO /2	•	Contract of the second	//	774 1
OCH NO COOM	1	12013		// 29
at 1964 and 1	I^{\sim}	33/11		E/()/)
William of the second		37		S .
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		\$/A	型流W 差流	7.44
	4	% E	尼州雪丽型	-
CIVEN CONDITIONS		177		(///3
		44.5		3//
ASSUMPTIONS:), [W		73
* W = 120 pcf (BACKFILL LOAD)	1		WERME	107
water and a second seco	1000	X 11/2	受示例表示	11/4
SOL TYPE = ORDINARY CLAY, SATURATED DO 6 WM Di				
ORDINARY CLAY, SATURATED "6 Low D.	1	34/3		
WALL B	1	Note	Mark Street	
LAYING CONDITIONS: TYPE 4	~	10		16
TRENCH CONDITIONS SHOWN -		A100	JULY JUNG	
THESE DEPTHS DO NOT APPLY FOR "EMBANKMENT CONDITIONS", Bd				CH.
FOR "EMBANKMENT CONDITIONS",			015	अर्ह .
NOPE TO DETERMINE H FOR			MASTE	D _ G
NOPE TO DETERMINE H FOR EMBANKNEHT CONDITIONS DESIGN BASED ON "DESIGN DATA 40. ACPA." PERSPECTIVE	Mar.		E4020)	L BEN-
DESIGN BASED ON DESIGN DATA	TIN.		/ 160m	DE AND VIDINA
40, ACPA." CLASS C BEDDING PERSPECTIVE			_ D- M	30 April
(1350 plf PER F1 OF INTERNAL DIA.) CLASS III. ASTN C-7	6		SEDI	ALB ME ACTION
(2000 per PER F) OF INTERNAL DIA.) CLASS IV. ASTM C-7	š		A6 17	THIS "HALL"
/ be a series of the serie	:: k			R BEDDING SIE SONG SONG SONG SONG SONG SONG SONG SONG
NOTES:				
1. GREATER DEPTHS ARE ACHIEVABLE BY EITHER CONTROLLING	BAC	CFILL	TYPE.	
NARROWING TRENCH WIDTH BUT SUPPLY SUFFICIENT ROOM	FOR (COMPA	CTION.	
terminate towns in the street and the maintained by the	* 25 M	- TIEL P		
IMPROVING BEDDING OR LOADING TO ULTIMATE LOAD (Du).	FOR	OTHE	R BURY	
IMPROVING BEDDING OR LOADING TO ULTIMATE LOAD (Du). DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVID	FOR LE CAL	OTHE CS O	R BURT N PIPE	
IMPROVING BEDDING OR LOADING TO ULTIMATE LOAD (Du). DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVID BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE	DE CWI	.cs o	N PIPE	

	Representative S	oll Types	Percent Co	mpaction
300 301	uscs,	ARSHTO	Standard Proctor	Modified Proofor
itavelly land category ()	SW, SP, GW, GP	AI,A3	100 35 30 60 60 61	95 90 63 60 75
Sandy Sit C artagory (1)	GM, 3M, ML Asso (CC, 5C) with less than 20% passing #200 sleve	A2,44	100 35 80 85 80 49	\$5 \$0 85 80 75
Sity Stay (Carbogory III)	OL, MH OC, SC	A5,46	100 95 90 85 80 45	90 65 80 75 70 40
	ОН		100 95 90 45	90 85 80 40

TOWN OF ZEBULON

JULY 2010

DETAIL FOR STORM DRAIN

WITH DRIVEWAY CONFLICT

Installation Type ⁴	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Туре І	$D_0/24$ minimum, sot less than 75 mm (3°), if rock foundationuss $D_0/12$ minimum, not less than 150 mm (8°).	৪৪% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	$D_{\phi}/24$ minimum, not let than 73 mm (3"), if rock foundation, use $D_{\phi}/12$ minimum, at less than 150 mm (4").	90% Category I or 95% Categiry I	85% Category I, 90% Category II, or 96% Category II
Туре 3	$D_0/24$ minimum, sot tess than 75 mm (3°). If rock foundation, use $D_0/12$ minimum, not less than 150 mm (6°).	85% Category I, 90% Category II, or 95% Category III	85% Category I, 95% Category II, or 95% Category II
Type 4	D ₀ /24 minimum, sot less than 75 mm (3°). If rock foundation, use D ₀ /12 minimum, not less than 150 mm (8°).	No compection required, except if Category III, use BSW Category III	No compaction required, except t Category III, use 65% Category III

1. Compaction and soils symbols - i.e. *98% Category I' refers to Category 1 soil material with a minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.

Soil in the outer bedding, haunch, and lower side zones, except within DO/3 from the pipe springline, shall be compacted to at least the same compaction as the majority of the soil in the overfill zone.

3.1 A subtrench is defined as a trench with its top below finished grade by more than 0.1 H or, for roadways, its top is at an elevation lower than 0.3 m (1') below the battom of the pavement base material.

adequate space to attain the specified compaction in the haunch and bedding 3.3 For subtrenches with wall of natural soil, any portion of the lower side zone in

compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or shall be removed and replaced with soil compacted to the specified level.

	TOWN OF ZEBULON						
270	STD. TRENCH INSTALLATION	NOT TO SCALE	DETNIL #				
E-A	(TRENCH CONDITION SHOWN)	DATE:	SHEET &				
1000	USE WITH STANDARD SPECIFICATIONS CHLY	JULY 2010	4 07 3				

Ш	Туре І	$D_0/24$ minimum, not less than 75 mm (3°), if rock foundation, see $D_0/12$ minimum, not less than 150 mm (8°).	98% Category I	907 0 957 0 or 100% (
Ш	Type 2	$D_{\phi}/24$ minimum, not let than 75 mm (3"). If rock foundation, use $D_{\phi}/12$ minimum, at less than 150 mm (\$").	90% Category I or 95% Categiry I	8537 C 9637 C or 9637 C
Ш	Туре 3	$D_0/24$ minimum, sot less than 75 mm (3°). If rock foundation, use $D_0/12$ minimum, not less than 150 mm (\$°).	85% Category I, 90% Category II, or 95% Category III	0 ROS 0 ROS 0r 0 ROS 0 ROS
Ш	Type +	$D_0/24$ minimum, sot less than 75 mm (3"). If rock foundation, use $D_0/12$ minimum, not less than 150 mm (\$").	No compection required, except if Category III, use 85% Category III	No car require Cartege upo 60 Cartege
	Notes:			

3. Subtrenches

3.2 The minimum width of a subtrench shall be 1.33 Do or wider if required for

the subtrench wall shall be at least as firm as an equivalent soil placed to the

Type 1 Installation = relatively high quality material & high compaction effort.
 Type 4 installation = little or no control over material and compaction.

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13	SIL.	178
	The state of the s	2557 2544 2614 2614 2614 2614

PLAN STATUS								
6/20/22	SITE	SITE PLAN SI						
0/21/22	PER :	PER TOWN RE						
DATE	DE	TION						
MEL	М	EL	XXX					
DESIGN	DRAWN		CHKD					
SCALE		1"=40 "= XX	_					
IOB No.	2200)97–1	01-002					
DATE	June	20,	2022					
FILE No.	2200	97-0	1-002					

C6.3C

PIPE MAX. MAX. BURY MAX. BURY DI - INSIDE DIAMETER OF PIPE Do - guiside diameter of pipe (0.01 CRACK) Bd = TRIDNOH WIDTH H = BACKFILL COVER ABOVE TOP OF PIPE THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING EXCAVATION LINE — AS REQUIRED SPRING LINE -SEE SPECIFICATION SECTION 02210 PARAGRAPH 13. ALSO SEE PARAGRAPH 3A SECTIONAL VIEW 1. FOR OTHER BURY DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVIDE CALCS ON PIPE BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDITIONS IN WHICH IT IS PROPOSED TO BE USED. 2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE

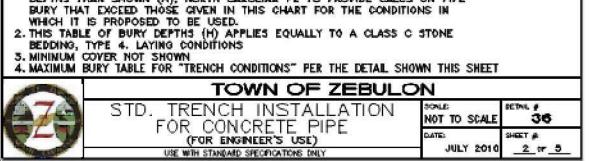
BEDDING, TYPE 4 LAYING CONDITIONS.

3. MININUM COVER NOT SHOWN BUT NO LESS THAN 12" W/O ENGINEERS APPROVAL UP TO 48" PIPE.

FOR CONCRETE PIPE (FOR CONTRACTOR'S USE) USE WITH STANDARD SPECIFICATIONS ONLY

TRENCH INSTALLATION

TOWN OF ZEBULON





TION DETAILS Rocket E Arende Project ID# CONSTRUC

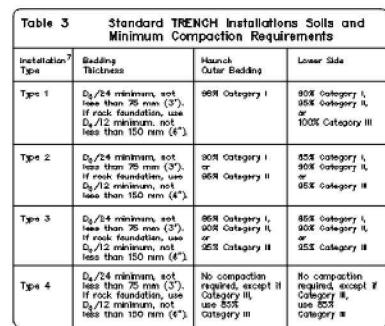
DO NOT

USE FOR

CONSTRUCTION

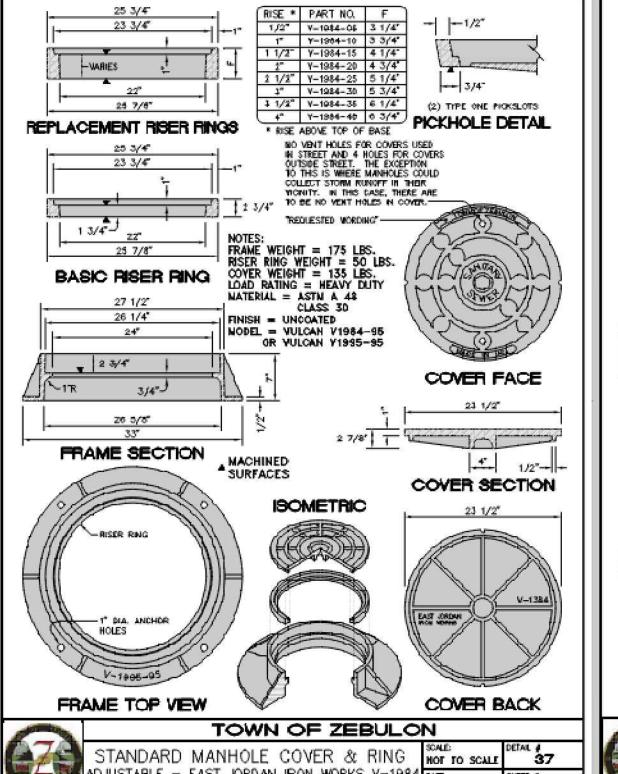
PRELIMINARY

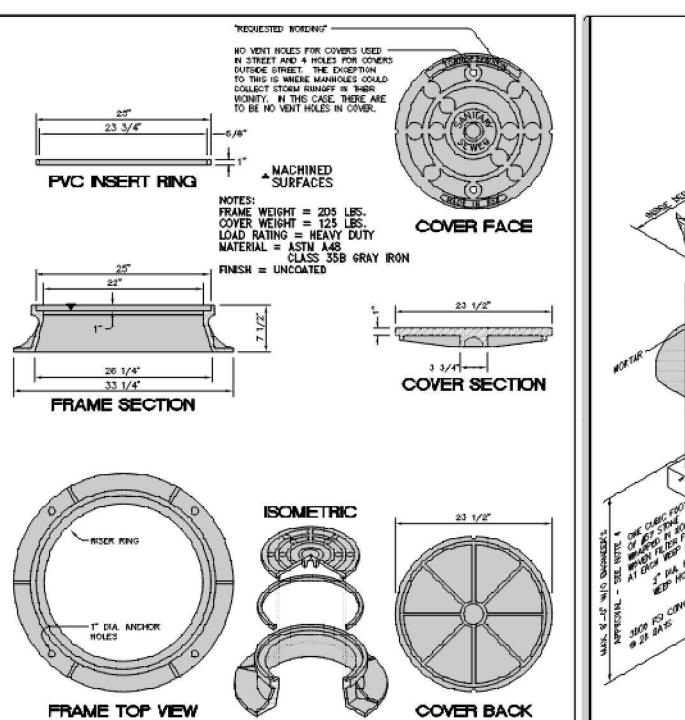
Cad file name: V: \220097 - rock properties inc\220097-01-002 (eng) - 9.9 acre dev arendell av zebulon nc\engineering\engineering\engineering plans\construction documents\220097-01-002-51T.dwg



- 1. Compaction and soils symbols i.e. "98% Category I" materials with minimum standard Proctor compaction of equivalent modified Proofer values.
- for roadways, its top shall be no lower than an elevation the bottom of the pavement base material. 3. Soil in bedding and haunch zones shall be compacted
- compaction as specified for the majority of soil in the
- 4. The trench width shall be wider than shown if required attain the specified compaction in the haunch and bedd 5. For trench walls that are within 10 degrees of vertical,
- of the soil in the trench walls and lower side zone need 6. For trench walls with greater than 10 degrees slopes that the lower side shall be compacted to at least the same
- for the soil in the backfill zone. 7. Type 1 installation = relatively high quality material & Type 4 installation = little or no control over material

(Z)	(TREN	TOWN TRENCH INSTITUTE ICH CONDITION USE WITH STANDARD SPECIFICAT	M SHOWN)	NOT TO SE	SHEET &		STD VARIA	TOWN M. M.H. BLE LE	ENGTH	SCALE: HOT TO DATE:	SCALE 37 SHEET #:	
materials equivalent The trend for road the both Soli in b compact The trend attain th For trend of the s For trend the lowe for the Type 1	s with minimant modified to top elevatively, its top elevatively, its top ending and the specified the walls that soil in the trails soil in the trails soil in the trails soil in the trails installation:	s symbols — 1.e. "9: hum standard Procto Proctor values. tion shall be no lower avement base mate haunch zones shall tied for the majorit till be wider than sh compaction in the le are within 10 degreenth walls and lower greater than 10 d be compacted to a backfill zone. If the or no contro	or compaction of them on elevation of them on elevation of the compacted o	of 98%. See To below finished a ion of 0.3 m () to at least the backfill zone. for adequate s Iding zone. the compaction ed not be consist of e be compaction a	ble 1 for grade or, ") below same pace to or firmness idered. mbankment, s specified n effort.	ONE CHEST POOT OF STANDARD PROPERTY OF STANDARD PRO		PERSI	ECTIVE		NOTE: NOTE: NAME OF THE PARTY O	
	Type 4	D ₄ /12 minimum, not less than 150 nim (6"). D ₄ /24 minimum, sot less than 75 mm (3"). If rock foundation, use D ₄ /12 minimum, not less than 150 nim (6").	95% Category II No compaction required, except if Category III, use 85% Category IIII	95% Category III No compaction required, except if Category III, use 85% Category III			7,00				~	l
	Туре 2	D ₂ /24 minimum, sot less than 75 mm (3°). If neek foundation, use D ₂ /12 minimum, not less than 150 mm (4°). D ₃ /24 minimum, sot less than 75 mm (3°). If rock foundation, use	90% Category II 96% Category II 96% Category I, 90% Category I, 90% Category II,	85% Category II, or 95% Category II 85% Category II, 90% Category II, or					24 DIA			l
	Тдос 1	D ₆ /24 minimum, not like than 75 mm (3"). If rack foundation, use D ₄ /12 minimum, not less than 150 mm (6").	98M Category I	90% Category I, 95% Category II, or 100% Category III			A Pro COC	E Mu				
	inetallation 7 Type	Bedding Thickness	Haunch Outer Bedding	Lower Side			2.					
	Table 3		NCH Installation				SEE TOP	DETAIL 37 SHEE TO READ "STORY	2 2 2 3			



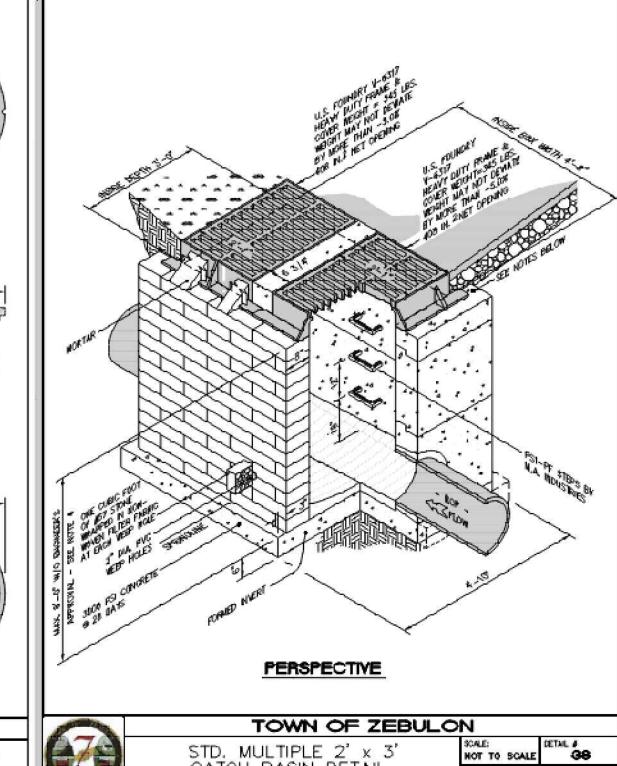


TOWN OF ZEBULON

JULY 2010

TANDARD MANHOLE & RING

US FOUNDRY 700 KI

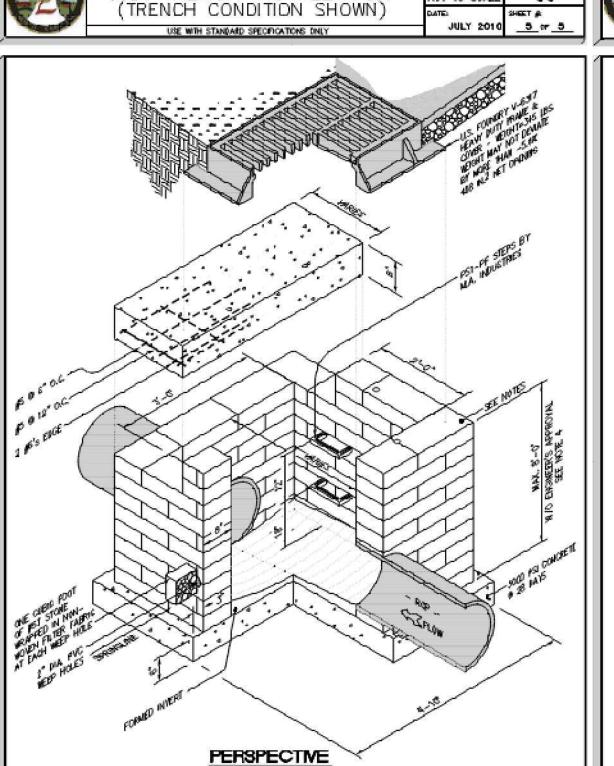


STD. MULTIPLE 2' x 3'

JULY 2010 1 or 1

CATCH BASIN DETAIL

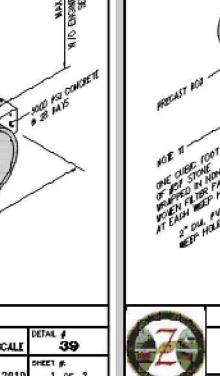
ISE WITH STANDARD SPECIFICATIONS ONLY

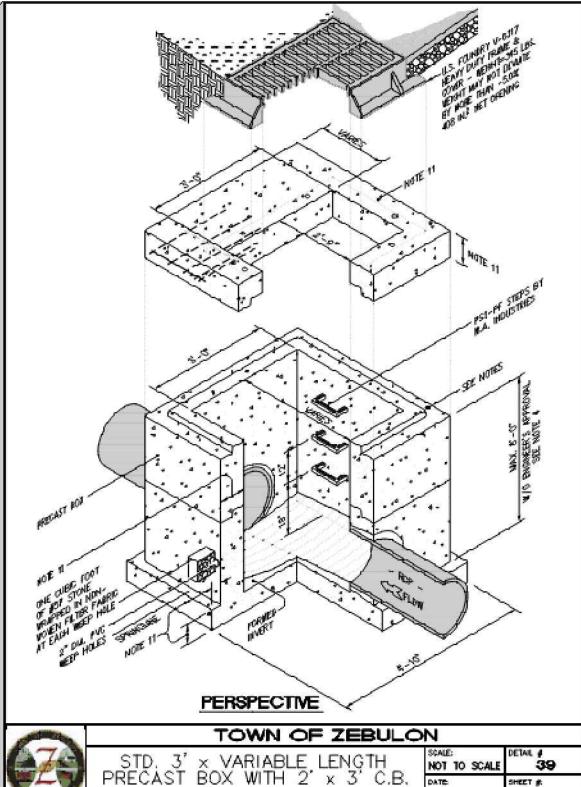


TOWN OF ZEBULON

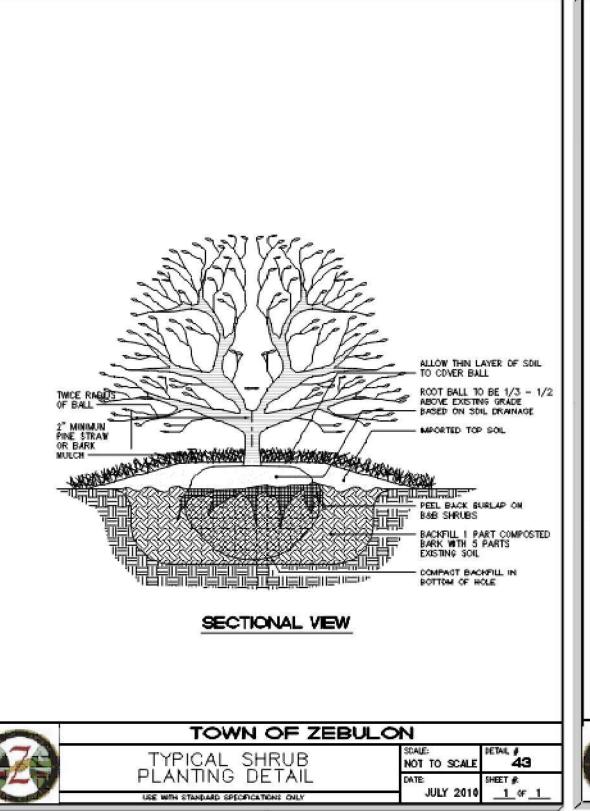
× VARIABLE LENGTH

USE WITH STANDARD SPECIFICATIONS ONLY

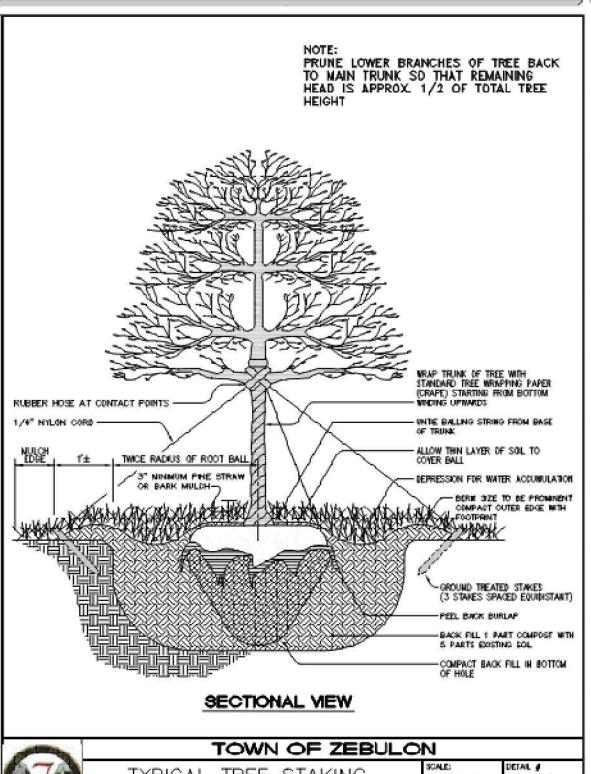


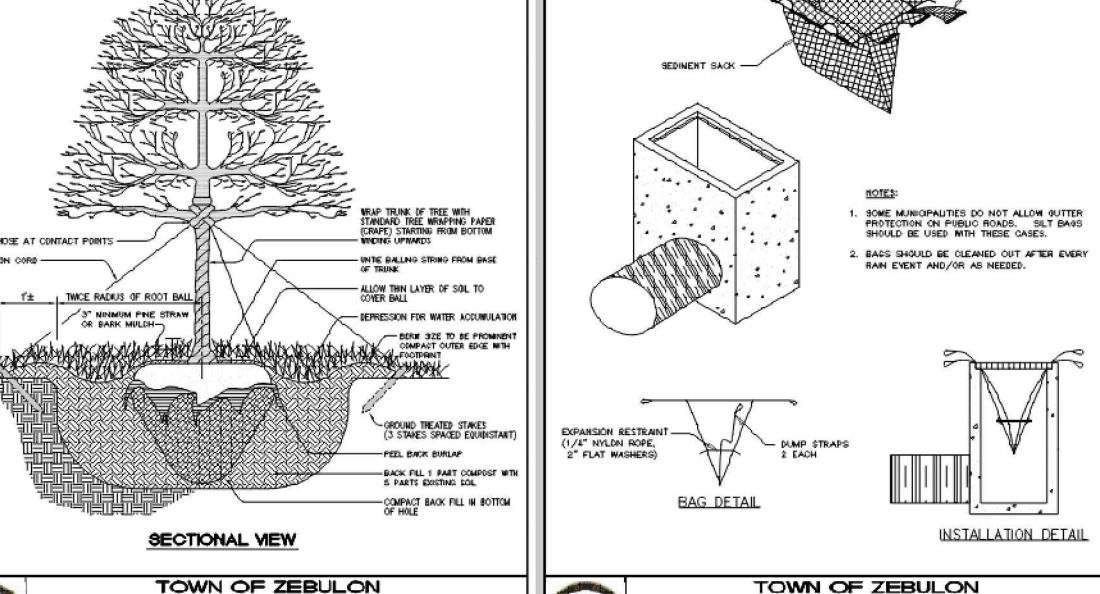


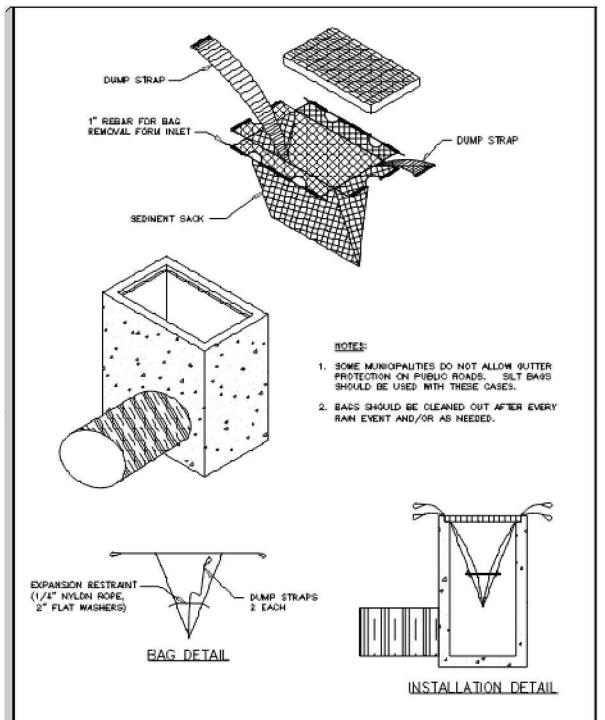
USE WITH STANDARD SPEDIFICATIONS ONLY



USE WITH STANDARD SPECIFICATIONS ONLY







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Control of the last of the las	USE WITH STANDARD SPECIFICATIONS ONLY		JULY 2010	_1_0F_1_

DO NOT USE FOR CONSTRUCTION

PRELIMINARY

Arende oject ID4

Rocket

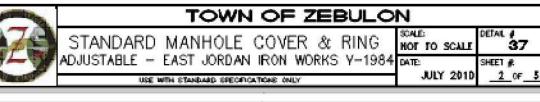
TION DETAIL

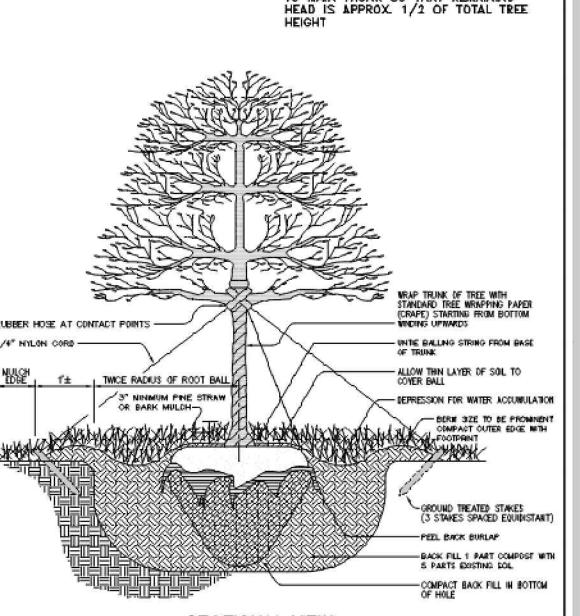
CONSTRUC

PLAN STATUS				
	SITE PLAN			
10/21/22	PER TOWN	REVIEW		
DATE	DESCRIPTION			
MEL	MEL	XXX		
DESIGN	DRAWN	CHKD		
CCVIE	H: 1/"=450	g,		

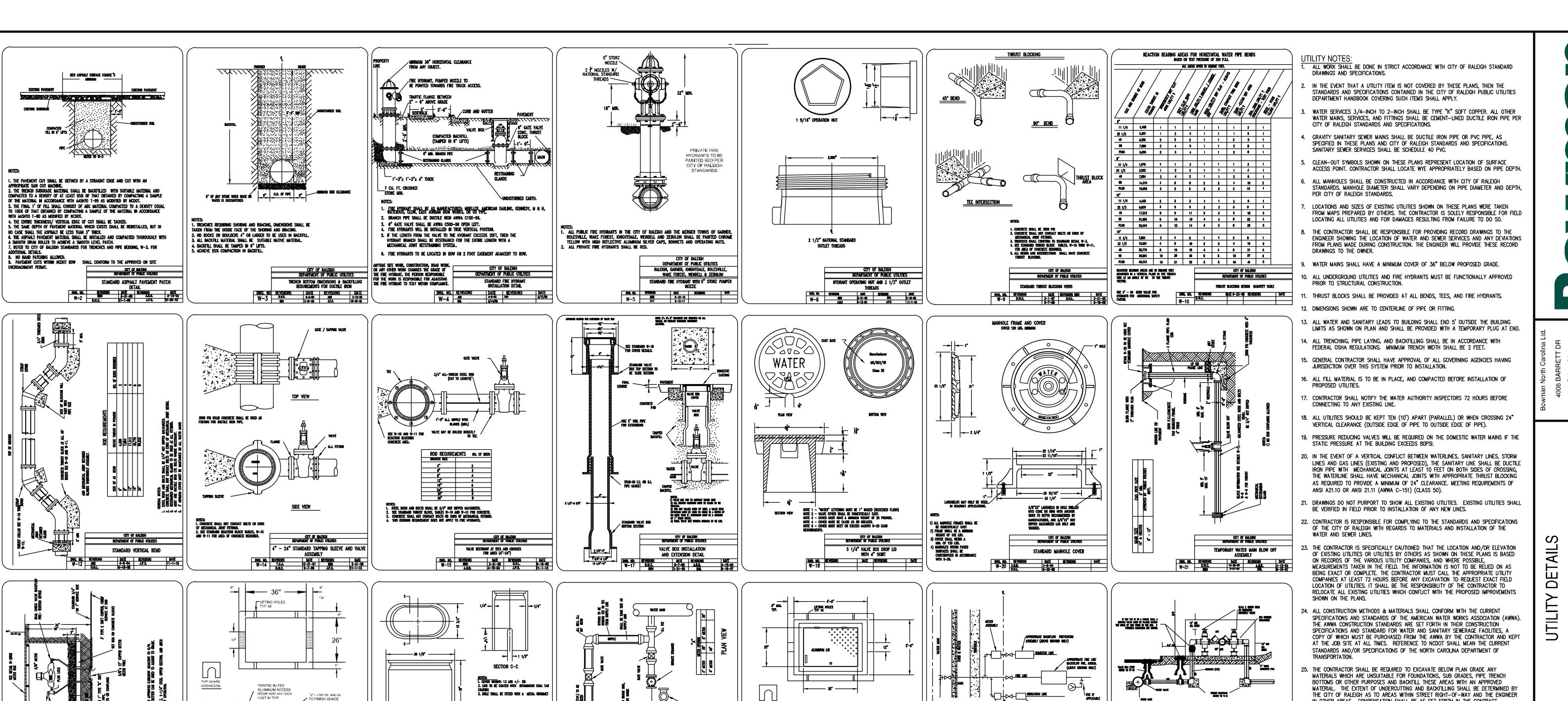
SCALE V: 1'' = XXX'JOB No. 220097-01-002 DATE June 20, 2022 FILE No. 220097-01-002

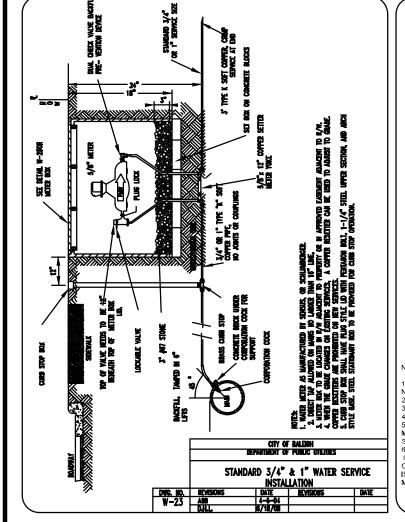
C6.3D SHEET

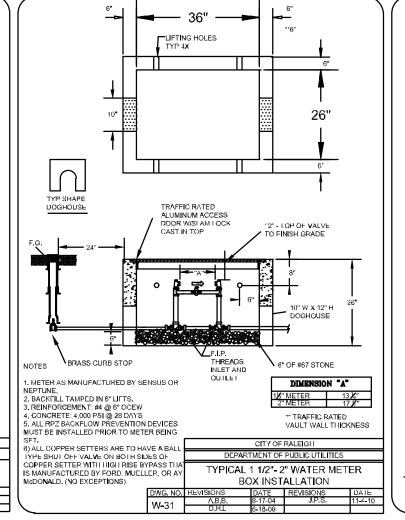


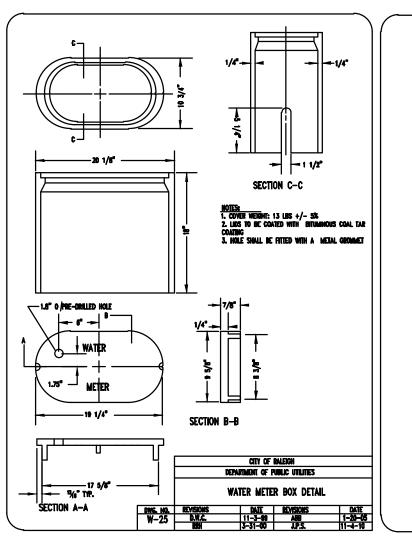


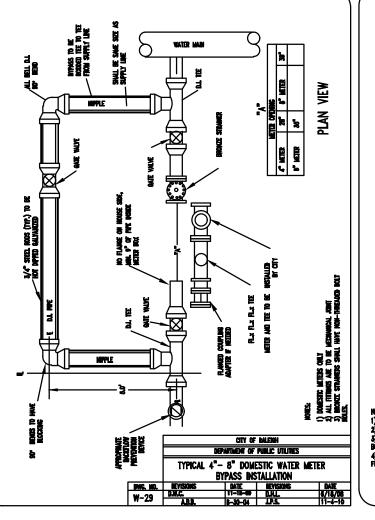
The same of the sa	TOWN OF ZEBUL	ON.	
7	TYPICAL TREE STAKING	SCALE: NOT TO SCALE	DETAIL # 44
-	and PLANTING DETAIL USE WITH STANDARD SPEODICATIONS ONLY	DATE: JULY 2010	SHEET &

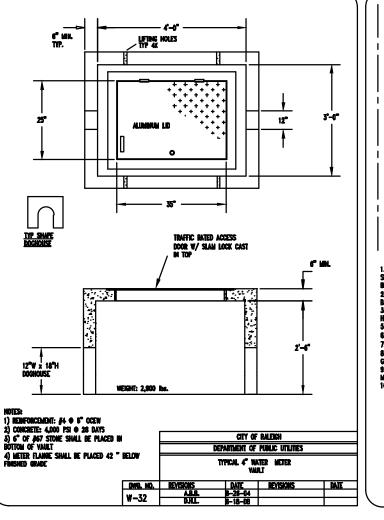


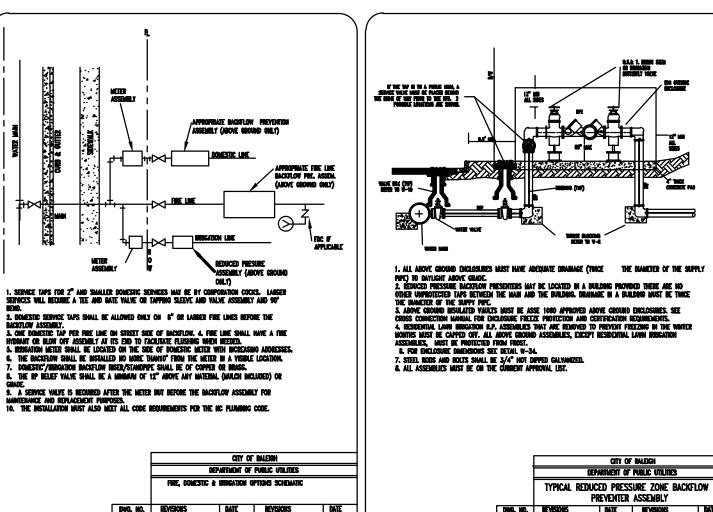




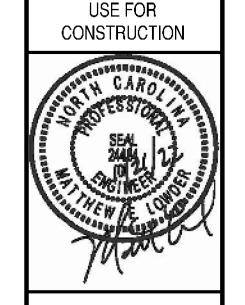








- IN OTHER AREAS. COMPENSATION SHALL BE AS SET FORTH IN THE CONTRACT DOCUMENTS.
- 26. A MINIMUM VERTICAL SEPARATION OF 24" SHALL BE MAINTAINED BETWEEN SANITARY SEWER & WATER LINES AND A FULL JOINT OF WATER LINE PIPE SHALL BE CENTERED WHERE WATER LINE CROSSES OVER SANITARY SEWER. WHERE CLEARANCE IS LESS THAN 18" BUT GREATER THAN 12". SANITARY SEWER SHALL BE PRESSURE TESTED DUCTILE IRON PIPE 10' FROM WATER-MAIN. WHEN WATER LINE CROSSES UNDER SANITARY SEWER, 18" MINIMUM CLEARANCE MUST BE MAINTAINED, AND SANITARY SEWER SHALL BE PRESSURE TESTED DUCTILE IRON PIPE 10' FROM WATER-MAIN.
- 27. ALL WATERLINES SHALL HAVE BURIED WITH THE PIPE # 12 COATED ELECTRIC WIRE AND BROUGHT UP INTO THE METER BOXES.
- 28. THE CONTRACTOR SHALL PROVIDE A SURVEY AS-BUILT RECORD DRAWING OF THE SANITARY SEWER SYSTEM AND THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF RALEIGH UTILITY DEPARTMENT.



PRELIMINARY

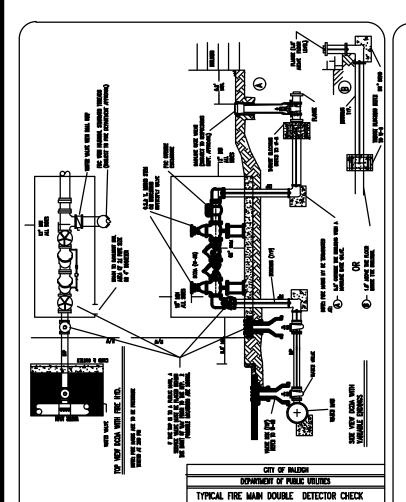
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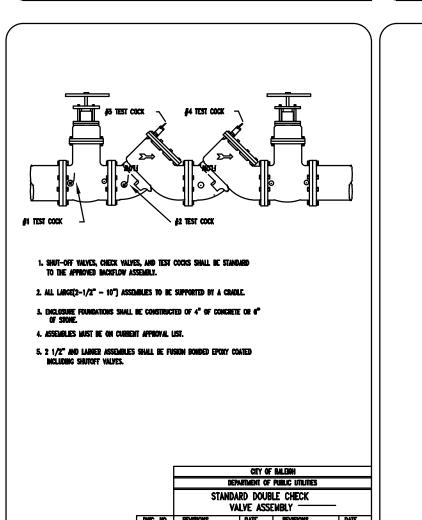
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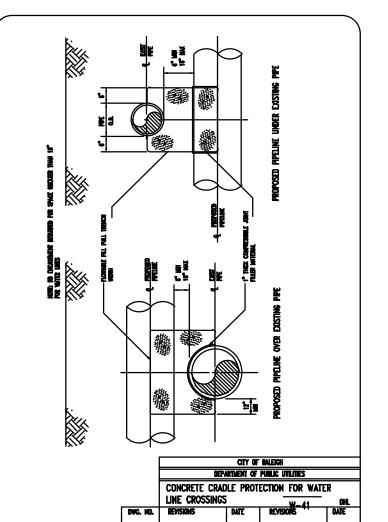
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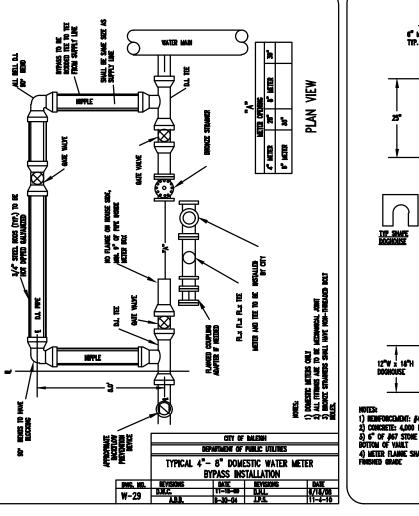
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6/20/22	SITE PLAN	SUBMITTAL		
10/21/22	PER TOWN	REVIEW		
DATE	DATE DESCRIPTION			
MEL	MEL	XXX		
DESIGN	DRAWN	CHKD		
SCALE H: 1" = 50'				
JOB No.	JOB No. 220097-01-002			
DATE	DATE June 20, 2022			
FILE No.	FILE No. 220097-01-002			
SHEET C6.4A				

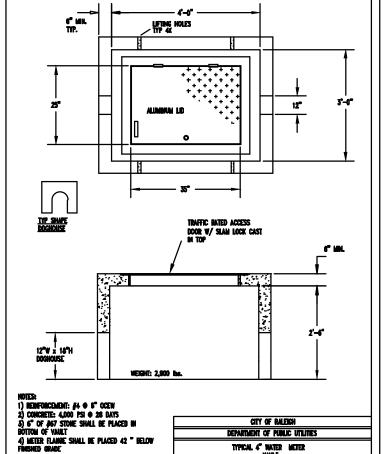


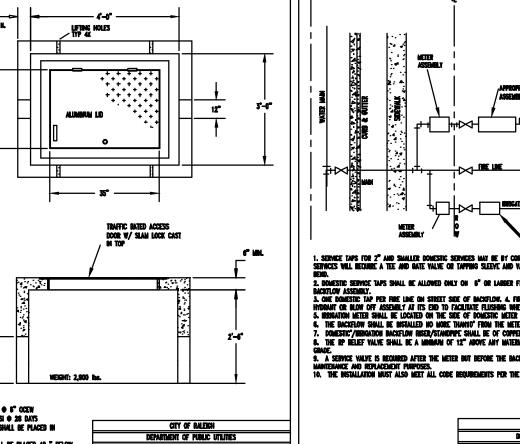


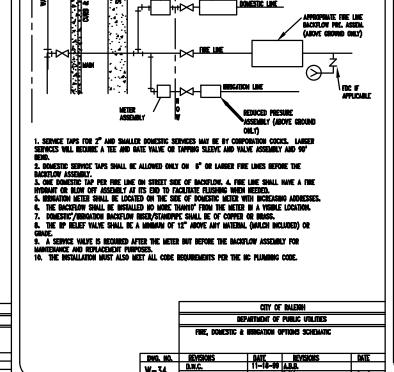
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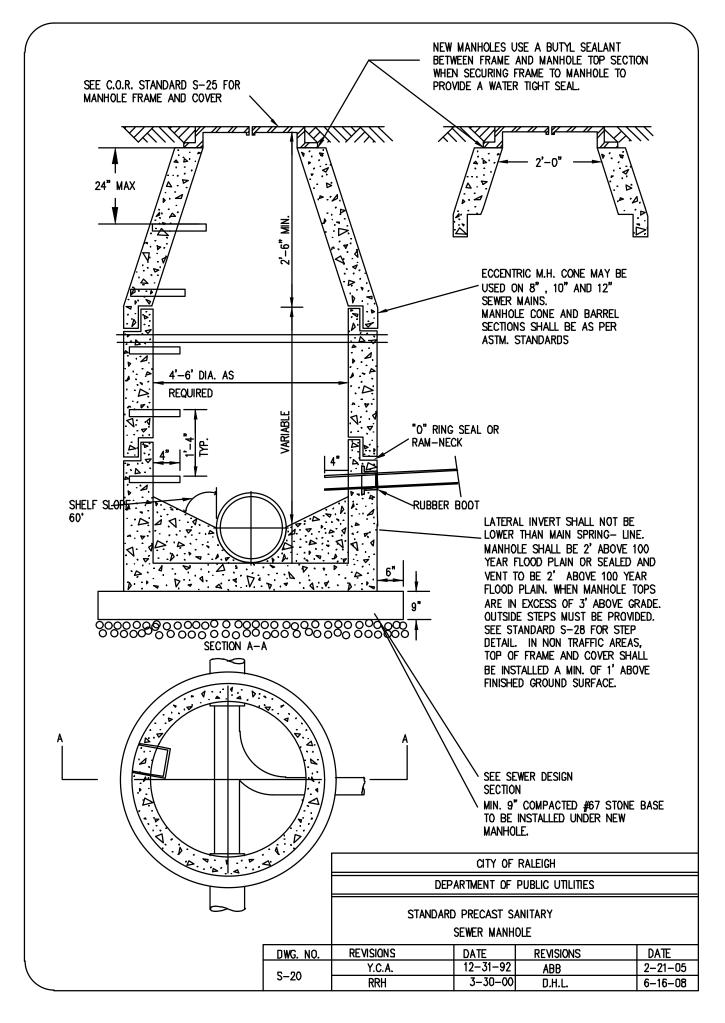


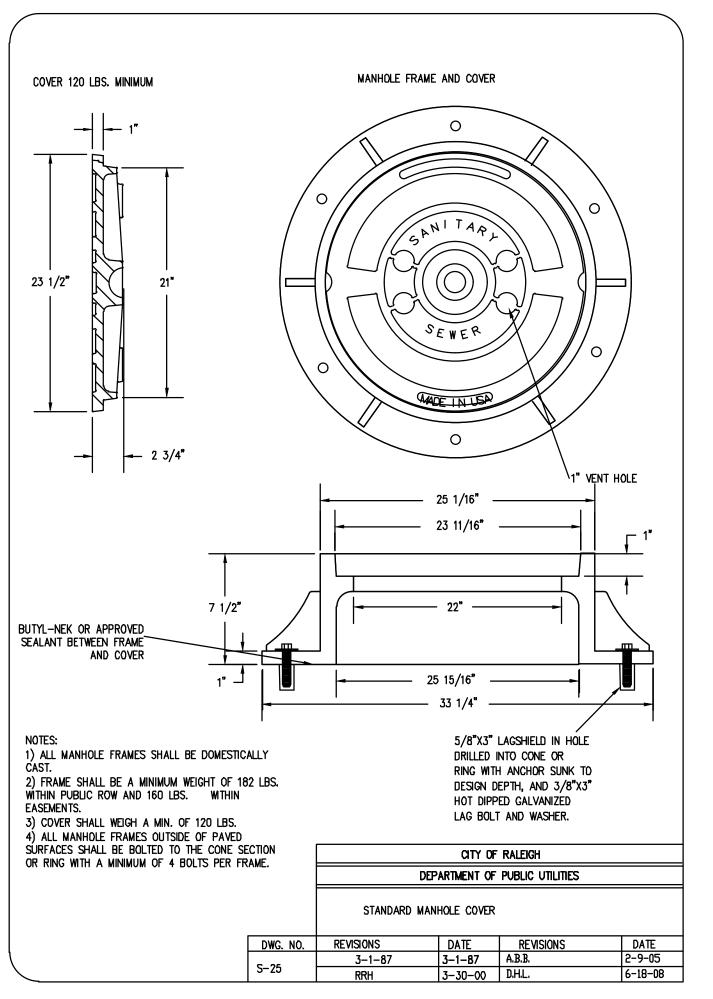


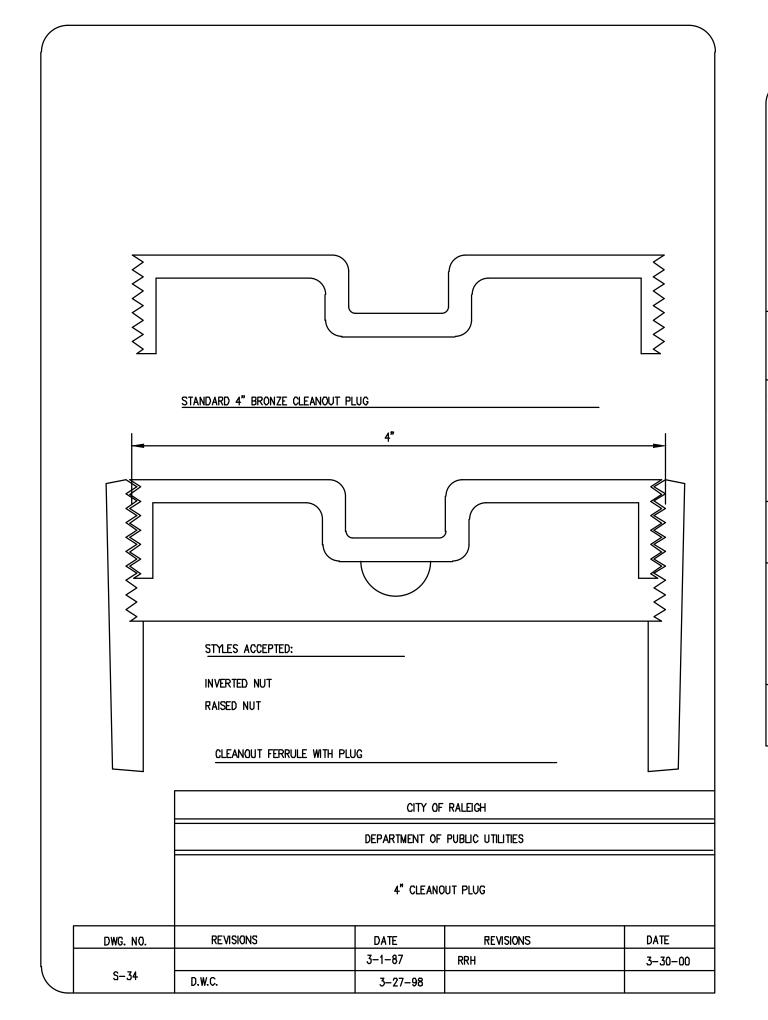


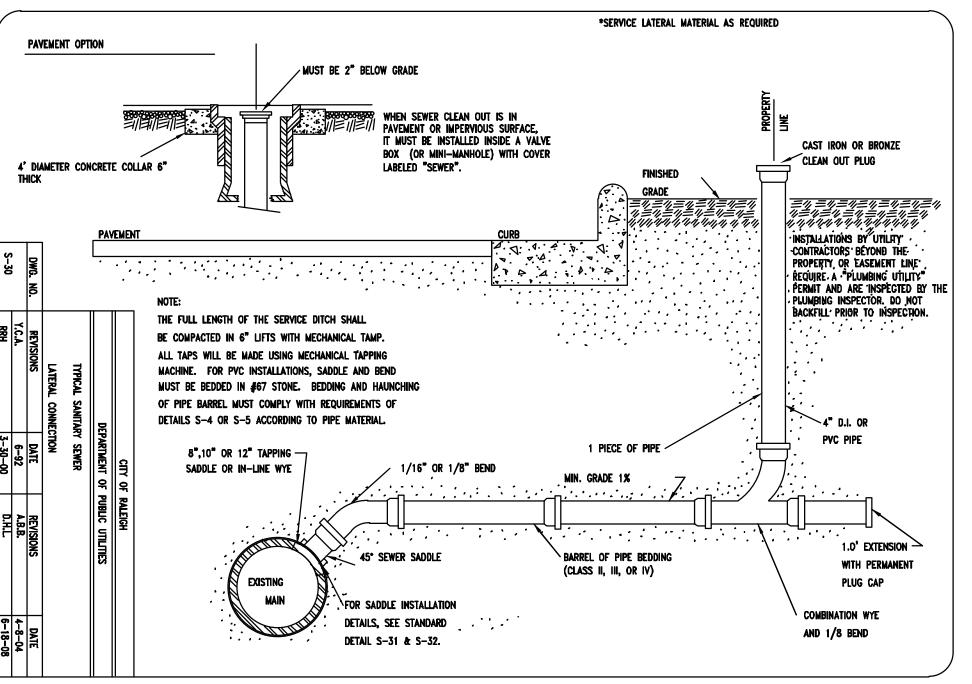


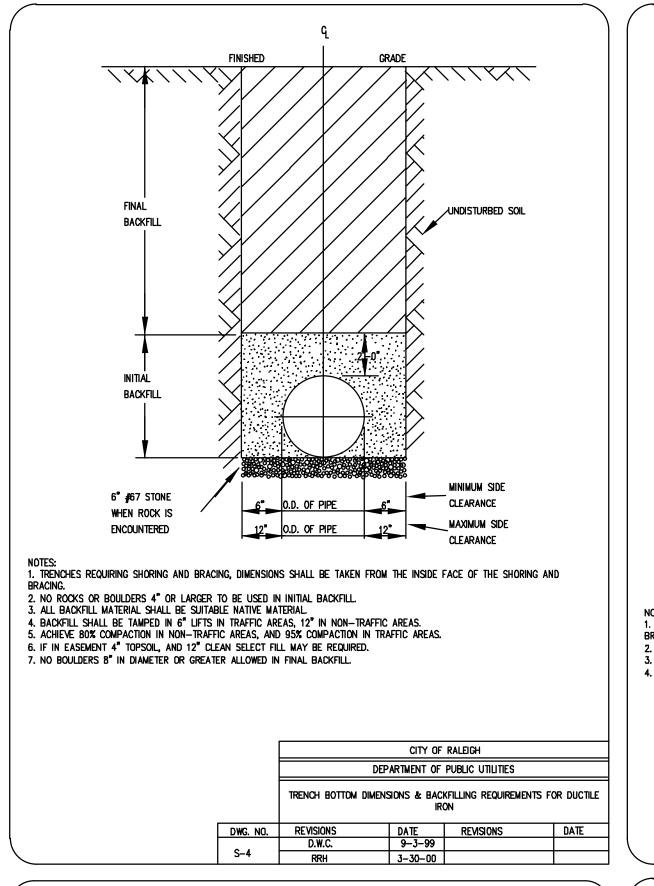


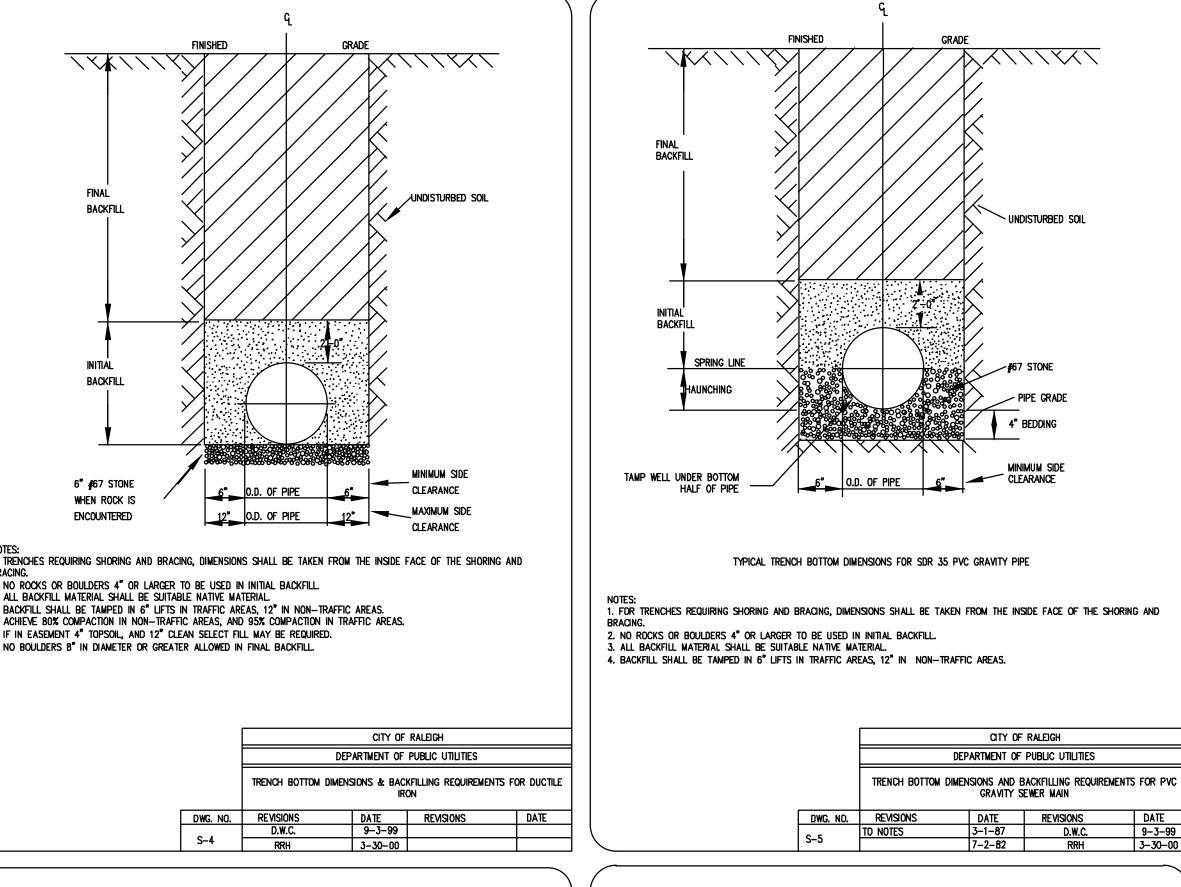


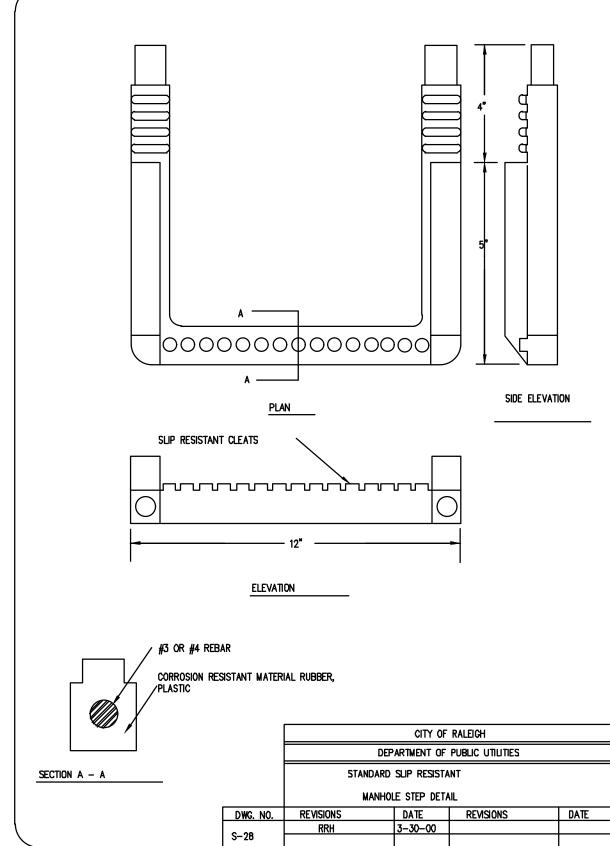


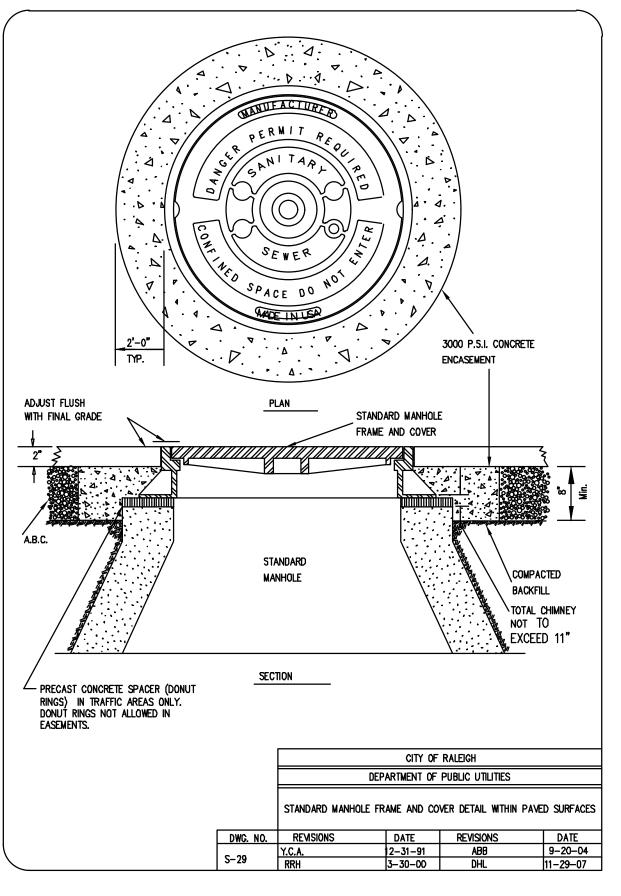












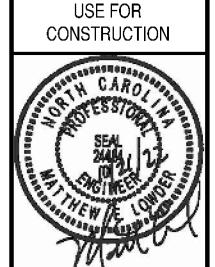


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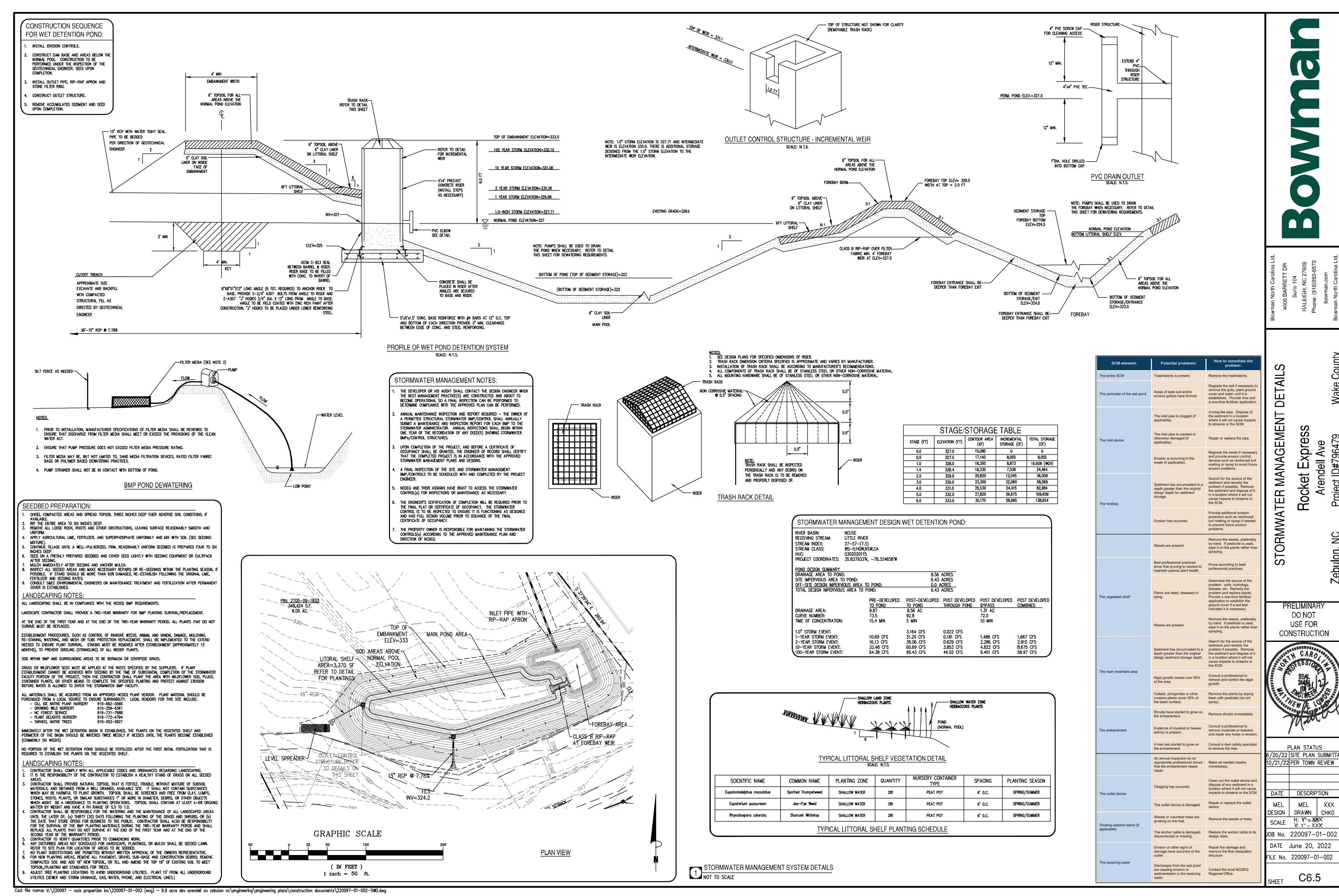
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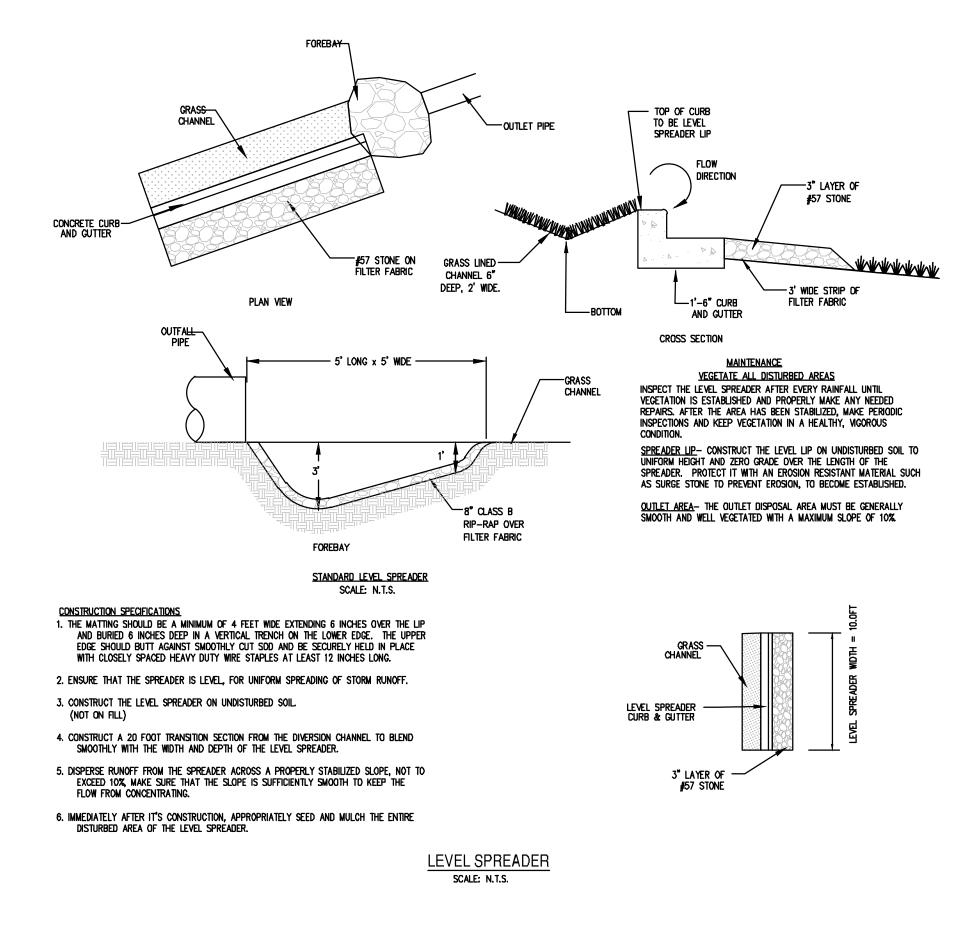
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PLAN STATUS				
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10/21/22	PER TOWN	REVIEW		
DATE	DESCRIPTION			
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FILE No.	FILE No. 220097-01-002			
SHEET	SHEET C6.4B			





GRASS SHALL BE EITHER HYBRID BERMUDA GRASS OR CENTIPEDE

VEGETATED FILTER STRIP LENGTH =30 FT VEGETATIVE FILTER STRIP - SOIL MIXTURE SOIL MIXTURE MATERIAL CONSTRUCTION SAND 85-88% 8%-12% ORGANIC MATTER 3%-5% COMPOST/PEAT MOSS SOIL MIXTURE: SHALL BE PLACED AND GRADED USING LOW GROUND-CONTACT PRESSURE EQUIPMENT OR BY EXCAVATORS AND/OR BACKHOES OPERATING ON THE GROUND adjacent to the vegetative filter strip facility. No heavy equipment shall be USED WITHIN THE PERIMETER OF THE VEGETATIVE FILTER STRIP FACILITY BEFORE, DURING, OR AFTER THE PLACEMENT OF THE SOIL MIXTURE. THE SOIL MIXTURE SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 4 INCHES FOR THE ENTIRE AREA OF THE VEGETATIVE FILTER STRIP FACILITY. IF THE SOIL MIXTURE BECOMES CONTAMINATED DURING THE CONSTRUCTION OF THE VEGETATIVE FILTER STRIP FACILITY, THE CONTAMINATED MATERIAL SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED MATERIAL AT NO ADDITIONAL COST. FINAL GRADING OF THE VEGETATIVE FILTER STRIP SHALL BE PERFORMED AFTER A 24—HOUR SETTLING PERIOD. FINAL ELEVATIONS SHALL V=1 H>3 THE SOIL MIXTURE SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUDING MULCH. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE VEGETATIVE FILTER STRIP AREA THAT MAY BE HARMFUL TO PLANT CROWTH, OR PROVE A HINDRANCE TO OF FILTER STRIP -soil mixture - see requirements this THE PLANTING OR MAINTENANCE OPERATIONS. -NATIVE SOIL, NO COMPACTION. ROTO-TILL SOIL PER CROSS-SECTION PRIOR TO PLACING THE SOIL MIXTURE, THE BOTTOM OF THE EXCAVATION SHALL BE ROTO-TILLED TO A MINIMUM DEPTH OF 6 INCHES TO ALLEVIATE ANY COMPACTION OF SOIL MIXTURE REQUIREMENTS THE FACILITY BOTTOM. ANY SUBSTITUTE METHOD FOR ROTO-TILLING MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ANY PONDED WATER SHALL BE REMOVED FROM THE

VEGETATIVE FILTER STRIP
SCALE: N.T.S.

OPERATION & MAINTENANCE

North Carolina storm water rules require annual inspections by the regulating agency of level spreader—filter strip areas as a minimum. More frequent inspections by the land owner or system operator are strongly encouraged to ensure the proper operation of level spreader—filter strip areas.

Rainfall Event
1. Inspect the SCM after every runoff-producing rainfall event.

BOTTOM OF THE FACILITY AND THE SOIL SHALL BE FRIABLE BEFORE ROTO-TILLING.

onthly Inspect the SCM monthly

1 Inspect the SCM monthly

1. Inspect the SCM monthly
2. Check the level spreader—filter strip area side slopes; remove trash and repair eroded areas before the next rainfall event.
3. Check the vegetative and rock filters for sediment accumulation, erosion and proper operation of the flow spreader mechanism and repair as necessary.
4. Visually inspect and repair soil erosion on a monthly basis.

5. Remulch any void area whenever necessary. Replacement of mulch layers may be necessary every two or three years. mulch should be replaced in the spring. When the mulch layer is replaced, the previous layer should be removed first.

6. Remove and replace all dead and diseased vegetation considered beyond treatment. This should be done twice a year, once in the spring and once in the fall. Treat all diseased trees and shrubs that are not beyond treatment as needed.

Quarterly Inspection

1. Inspect the collection system (i.e. catch basin, pipes and grass swales) for proper functioning. Clear accumulated trash from basin grates and basin bottoms. Check piping for obstructions.

2. Check SCM inlet pipes for undergutting replace ringers and repair broken pipes.

for obstructions.

2. Check SCM inlet pipes for undercutting, replace rip—rap and repair broken pipes.

3. Reseed grassed swales, including the vegetated filter if applicable, twice a year as necessary. Repair eroded areas immediately.

Remove accumulated sediment from the bottom of the outlet structure or other areas where accumulated sediment is noted.
 Inspect the embankment taking note of any wet areas where water may be seeping through the soil.

Maximum grass height is to be 6in.
 No woody vegetation shall be allowed to grow in the bio—retention area.
 Debris shall be removed from blocking the inlet and outlet structures and from are

Debris shall be removed from blocking the inlet and outlet structures and from areas of potential clogging.
 Periodic removal of dead vegetation shall be accomplished.
 All components of the level spreader-filter strip system must be kept in good

NC 27609 9)553-6570 n.com

Suite 104
RALEIGH, NC 27609
Phone: (919)553-6570

Wake County

DETAIL

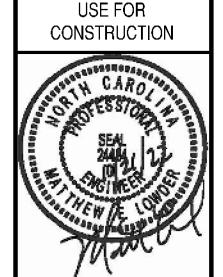
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STORMWATER MA

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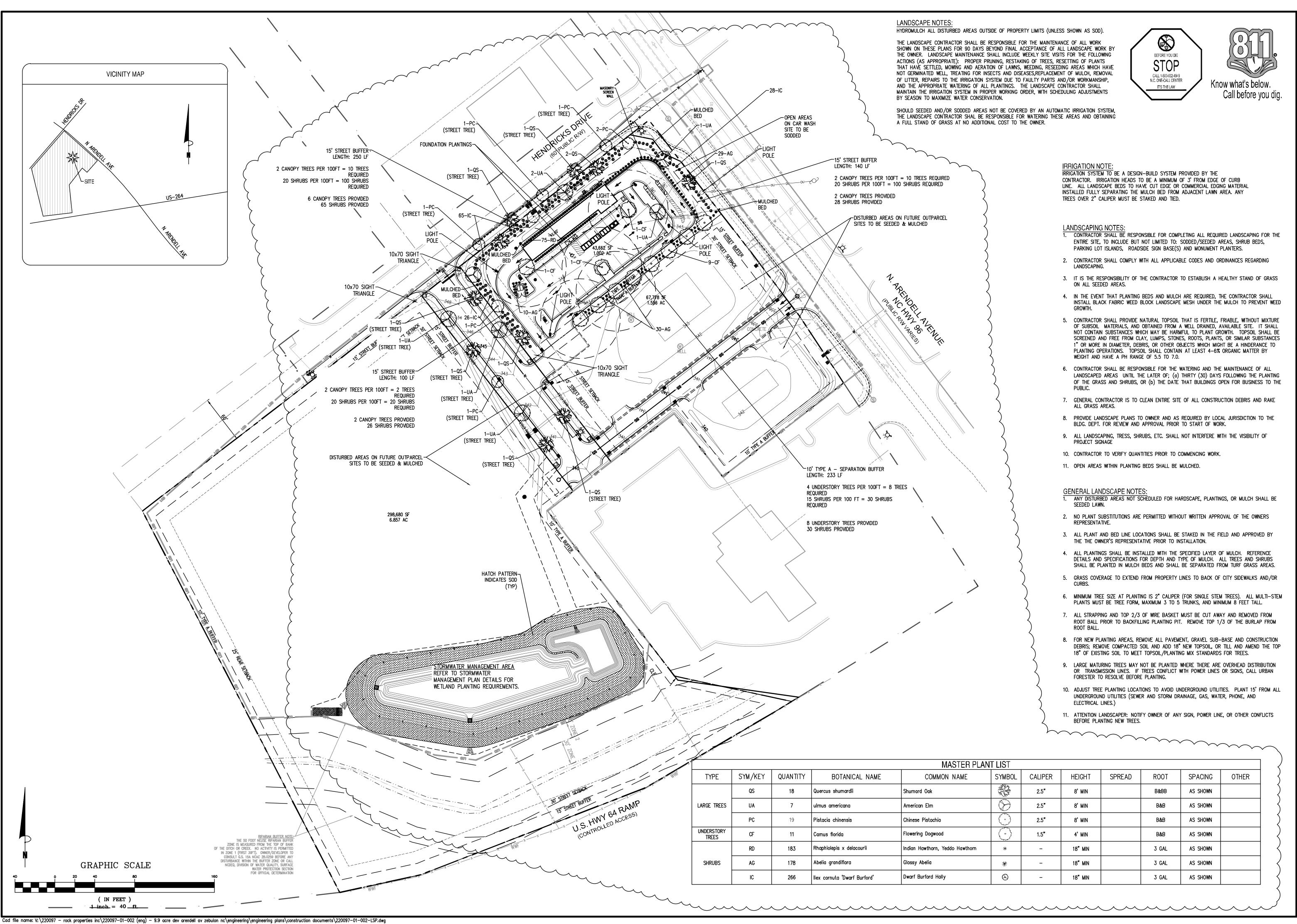


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10/21/22	PER TOWN	REVIEW	
DATE	DESCRIF	PTION	
MEL	MEL	XXX	
DESIGN	DRAWN	CHKD	
SCALE H: 1/" = XXX' V: 1" = XXX'			
JOB No.	220097-	01-002	
DATE	June 20,	2022	
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SHEET

PLAN STATUS



Phone: (919)553-6570
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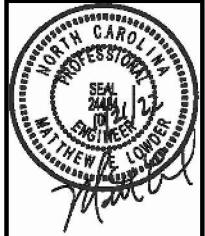
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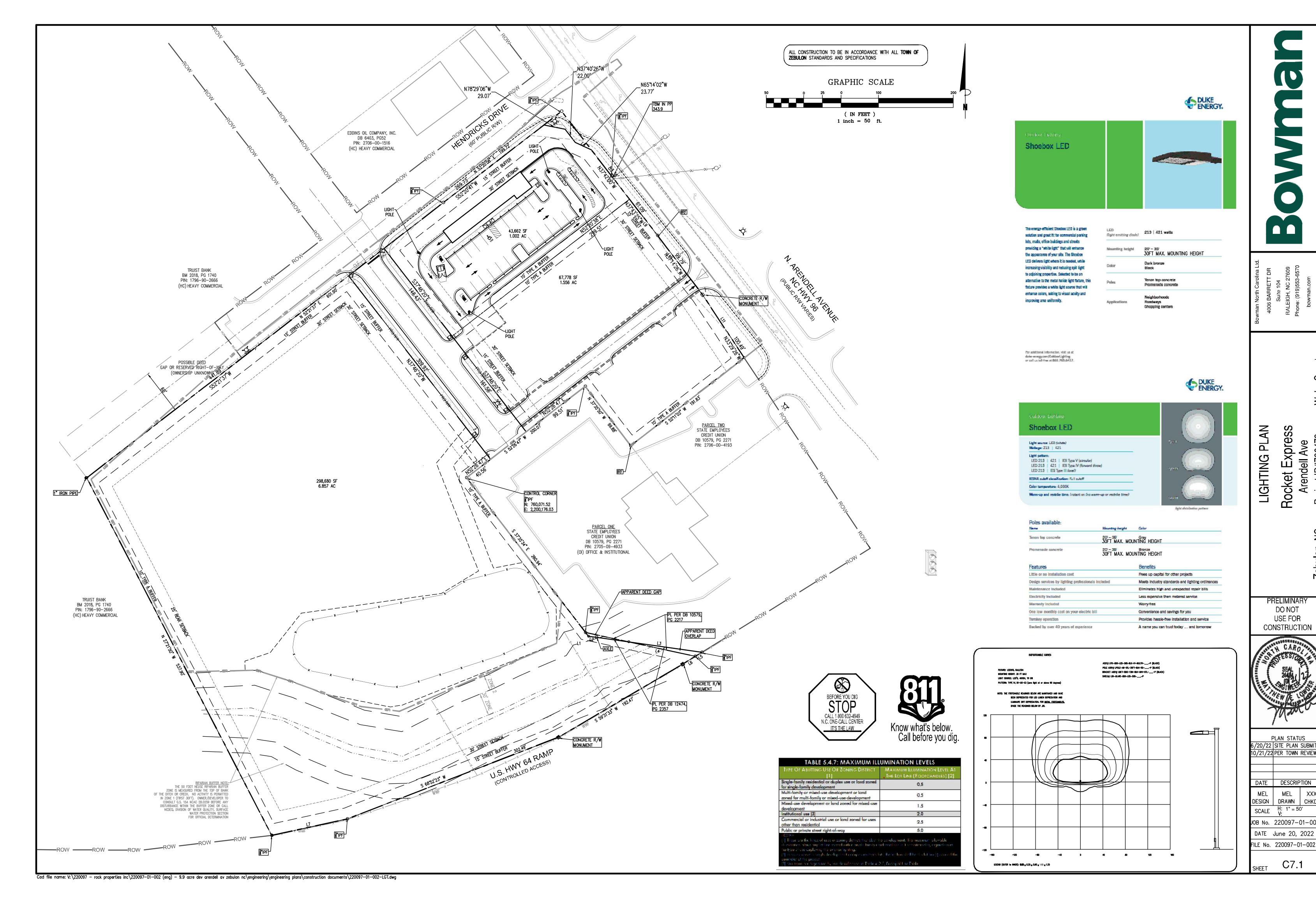
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PLAN STATUS			
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DATE	DESCRIPTION		
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SCALE H: 1" = 50'			
JOB No.	220097-	01-002	
DATE June 20, 2022			

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