WAKE COUNTY NOTES

CONSTRUCTION DOCUMENTS

Proposed Rocket Wash

Project ID# 796479 N. Arendell Avenue & Hendricks Drive Zebulon, North Carolina Wake County

DEVELOPER

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

IMPERVIOUS SUMMARY TABLE ON-SITE AREA = 429,809 SF (9.867 AC)2,880 SF 0.67 % OF AREA 0.07 ACRES PAVEMENT 41,610 SF 0.96 ACRES 9.68 % OF AREA 4,510 SF 0.10 ACRES 10.49 % OF AREA TOTAL IMPERVIOUS AREA 49,000 SF 1.12 ACRES 11.40 % OF AREA 380,809 SF GREEN/OPEN SPACE 8.74 ACRES 88.60 % OF AREA EXISTING IMPERVIOUS AREA 3,604 SF 0.84 % OF AREA 0.08 ACRES INCREASE IN IMPERVIOUS AREA 45,396 SF 1.04 ACRE

DEVELO	OPMENT DATA	
DEVELOPMENT NAME:	ROCKET EXPRESS	
STREET ADDRESS:	N. ARENDELL AVENUE	
	I ZEBULON, NC WAKE COUNTY	
	PROJECT ID# 796479	
	2705-09-1833, 2706-00-2456.	
PROPERTY IDENTIFICATION #(PIN):	2706-00-3318, 2706-00-3279,	
	2706-00-4241 0111170, 0030085, 0057144, 0058906,	
PROPERTY #:	0039956	
DEED BOOK/PAGE:	12474-2357	
<u> </u>	12171 2007	
EXISTING ZONING:	HC-HEAVY COMMERCIAL	
WATERSHED DISTRICT:	NONE	
FLOOD ZONE:	NONE	
TOTAL SITE ACRES:	429,809 SF (9.87 AC)	
INSIDE TOWN LIMITS:	YES	
EXISTING USE:	VACANT	
PROPOSED BUILDING USE:	CAR WASH AND OUTPARCELS	
PROPOSED TOTAL BUILDING AREA:	2,880 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:	O IF ABUTTED BY AN ALLEY, OTHERWISE	
	25FT	
PARKING REQUIREMENTS:	La per much pur	
TOTAL REQUIRED:	2 PER WASH BAY	
TOTAL PROVIDED:	25 (22 VACUUM SPACES + 3 EMPLOYEE	
	SPACES)	
ACCESIBLE SPACES PROVIDED:	1	
LOADING AREA:	1 PROVIDED	
STACKING SPACES:	3 REQUIRED, 9 PROVIDED	
BICYCLE SPACES:	2 REQUIRED, 2 PROVIDED	
LANDSCAPE BUFFERS: 10FT TYPE A BUFFER (ADJACENT HO		
	15FT STREETSCAPE BUFFER	

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—COV.dwg

UTILITY SERVICE NOTES LINE FROM MAIN TO BUILDING PER MUNICIPAL REQUIREMENTS. CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919-857-4540

"POWER CO." TO PROVIDE UNDERGROUND 120/208/3 PHASE SERVICE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL TWO 4" DIA. CONDUIT W/ PULL WIRE TO UTILITY COMPANY POINT OF CONNECTION. PROGRESS ENERGY 800-636-0581 TELEPHONE:

"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 SANITARY SEWER SYSTEM TO LAST CLEAN OUT OUTSIDE OF BUILDING. (MIN. 1% SLOPE). PROVIDE CLEAN OUTS EVERY 75' (TYPICAL). CONTACT: CITY OF RALEIGH UTILITY DEPARTMENT TELEPHONE: 919–857–4540

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

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-ENVIRONMENTAL CONSULTANT SIGNATURE

Water Distribution/Extension System he City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-See digital signature

PUBLIC Sewer Collection/Extension System he City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

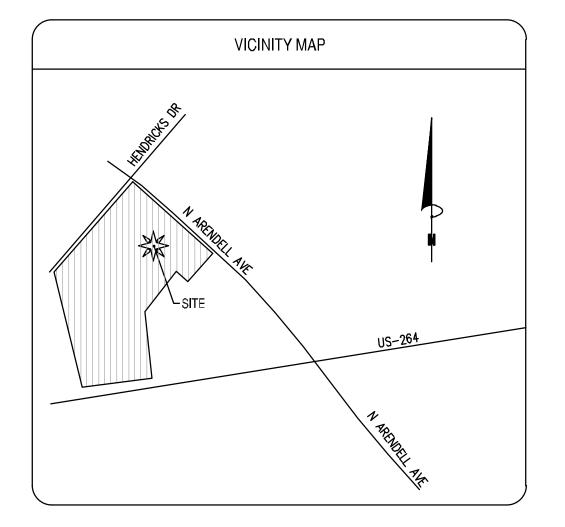
City of Raleigh
Public Utilities Department Permit # ______S-

ATTENTION CONTRACTORS

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

Failure to notify both City Departments in advance of beginning construction, will result 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 other Violation of City of Raleigh Standardswill result in a Fine and Possible Exclusion from future work in the City of Raleigh.







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	
A-1.0	OVERALL BUILDING LAYOUT	
A-1.1	OVERALL LAYOUT - UPPER STORY	
A-2.0	ELEVATIONS	
A-2.1	ELEVATIONS	
A-4.1	DETAILS	

PRELIMINARY DO NOT

USE FOR CONSTRUCTION



PLAN STATUS 0/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

C1.0

WATER VALVE

TRANSFORMER

YARD INLET YEAR

CROSSING

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.

- 50. 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 ACT: OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE
- 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
- 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.
- THEIR NEW LOCATION. CONTRACTOR SHALL VERIFY THESE ITEMS WITH THE OWNER, PRIOR TO CONSTRUCTION.
- 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

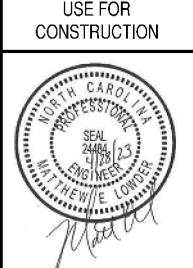
- NCDOT STANDARDS, AND CURRENT ADA REQUIREMENTS.
- THE STORM DRAIN, STORMWATER MANAGEMENT AND WATER QUALITY FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THEY ARE NOT ONLY 100% COMPLETE. BUT ALSO THAT 100% OF THE DRAINAGE AREA TO EACH FACILITY IS PERMANENTLY STABILIZED. SEED AND 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
- 65. DURING CONSTRUCTION, NO TEMPORARY CONNECTIONS TO FIRE HYDRANTS MAY BE MADE WITHOUT THE EXPRESS AUTHORIZATION OF THE UTILITY OWNER.

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PRELIMINARY



PLAN STATUS

DO NOT

)/22|SITE PLAN SUBMIT 0/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD $H \cdot 1'' = XXX'$ SCALE DATE June 20, 2022 C1. SHEET

- 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. REFER TO THE TOWN OF ZEBULON STANDARDS AND
- 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
- 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.

- BONDED JOINT.

- 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
- 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,
- EXTERIOR ENTRANCES SHALL HAVE A MAXIMUM SLOPE OF 2%.

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2. 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.

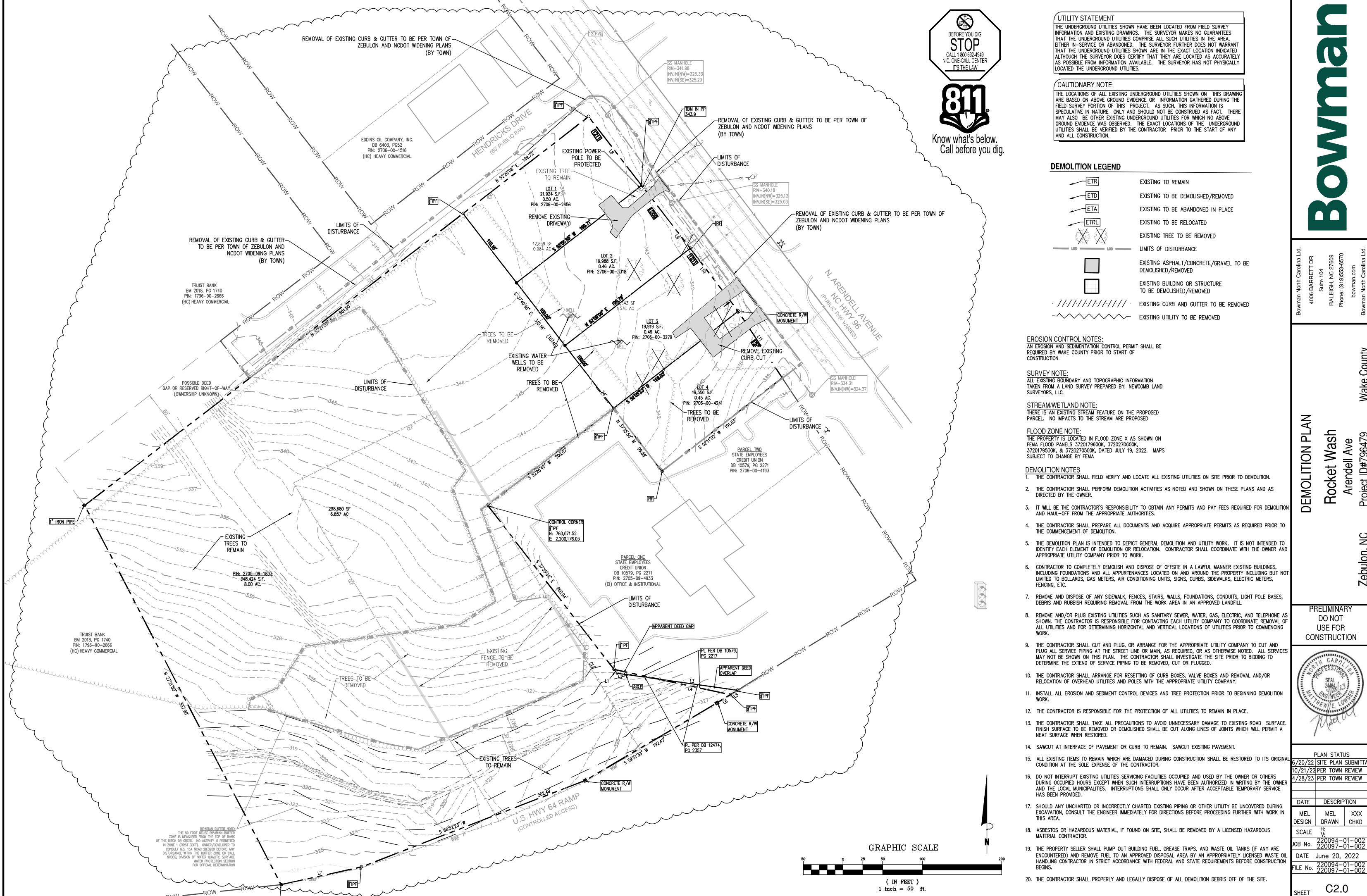
NOT BE USED ON THE PROJECT.

IRON PIPE FOUND

IRON PIPE SET IRRIGATION

JUNCTION BOX

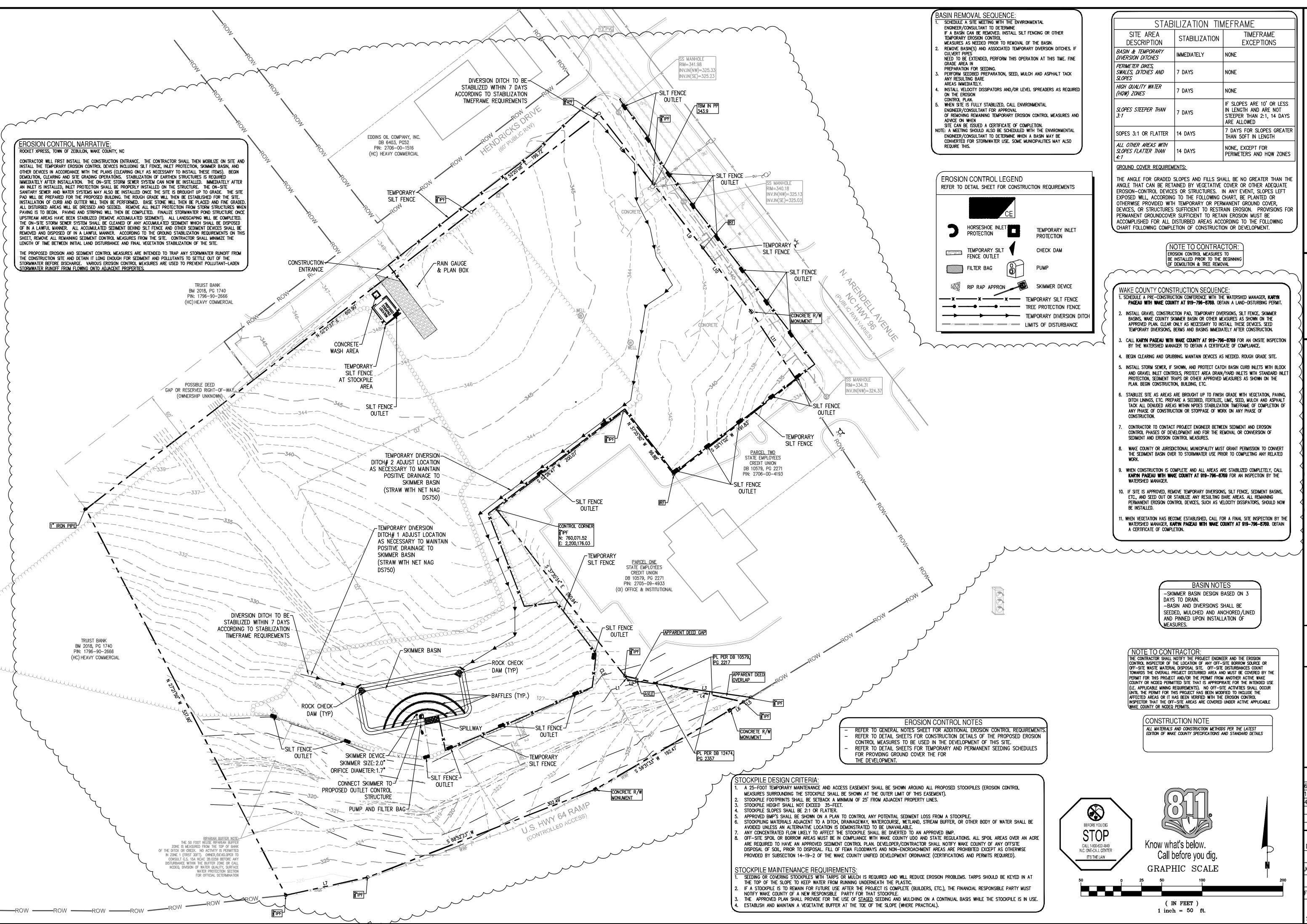
JOINT



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/20/22	SITE	PLAN	SUBMITTAL
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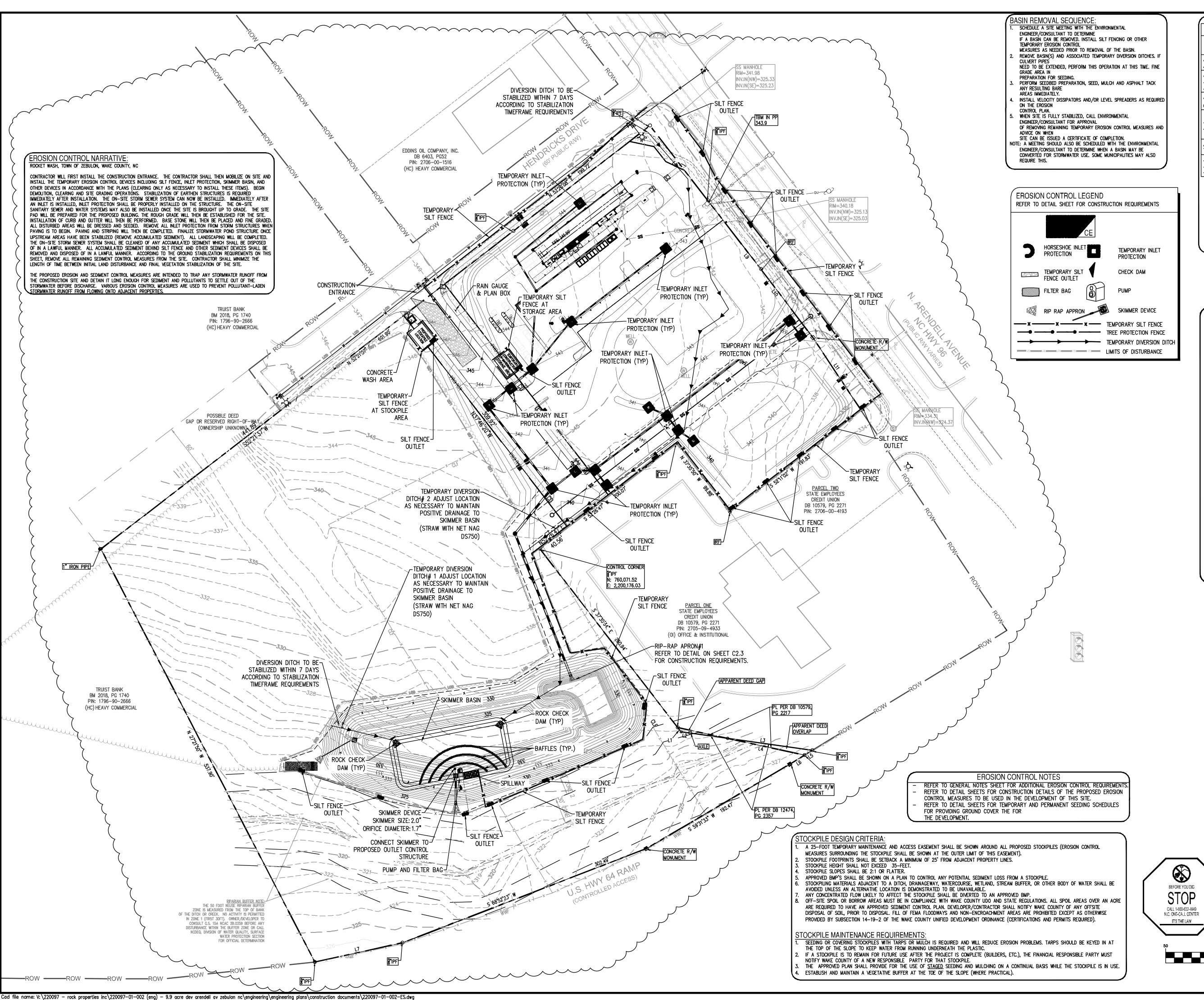


CONSTRUCTION

PLAN STATUS '22|SITE PLAN SUBMIT 1/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL

DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

C2.1



STABILIZATION TIMEFRAME SITE AREA TIMEFRAME STABILIZATION DESCRIPTION **EXCEPTIONS** BASIN & TEMPORARY IMMEDIATELY DIVERSION DITCHES PERIMETER DIKES, 7 DAYS SWALES, DITCHES AND SLOPES HIGH QUALITY WATER 7 DAYS (HQW) ZONES IF SLOPES ARE 10' OR LESS SLOPES STEEPER THAN IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED DAYS FOR SLOPES GREATER SOPES 3:1 OR FLATTER | 14 DAYS THAN 50FT IN LENGTH ALL OTHER AREAS WITH NONE, EXCEPT FOR | SLOPES FLATTER THAN | 14 DAYS PERIMETERS AND HQW ZONES

GROUND COVER REQUIREMENTS:

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION—CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, ACCORDING TO THE FOLLOWING CHART, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PROVISIONS FOR PERMANENT GROUNDCOVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS ACCORDING TO THE FOLLOWING CHART FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

NOTE TO CONTRACTOR:

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

WAKE COUNTY CONSTRUCTION SEQUENCE:

1. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WATERSHED MANAGER, KARYN
PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A LAND-DISTURBING PERMIT.

- 2. 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 CONSTRUCTION.
- CALL KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769 FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. 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 PHASE OF
- 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 KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769 FOR AN INSPECTION BY THE WATERSHED MANAGER.
- 10. 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 VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- I. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER, KARYN PAGEAU WITH WAKE COUNTY AT 919-796-8769. OBTAIN A CERTIFICATE OF COMPLETION.

BASIN NOTES

-SKIMMER BASIN DESIGN BASED ON 3
DAYS TO DRAIN.

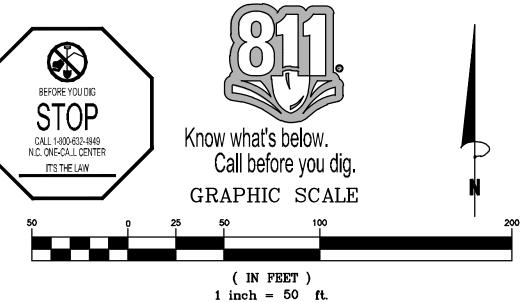
-BASIN AND DIVERSIONS SHALL BE
SEEDED, MULCHED AND ANCHORED/LINED
AND PINNED UPON INSTALLATION OF
MEASURES.

NOTE TO CONTRACTOR:

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 WAKE COUNTY OR NODEQ 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

CONSTRUCTION NOTE

ALL MATERIALS AND CONSTRUCTION METHODS PER THE LATEST EDITION OF WAKE COUNTY SPECIFICATIONS AND STANDARD DETAILS



WAKE COUNTY OR NCDEQ PERMITS.

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

Wake Count

Rocket Wash Arendell Ave

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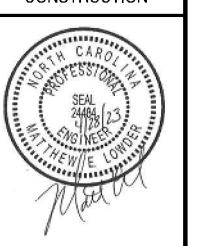
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EROSION

Zebulon NC

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



PLAN STATUS

6/20/22 SITE PLAN SUBMITTAL

10/21/22 PER TOWN REVIEW

4/28/23 PER TOWN REVIEW

DATE DESCRIPTION

MEL MEL XXX

DESIGN DRAWN CHKD

SCALE H: 1" = 40'
V: 1" = 40'
V: 1" = 40'
JOB No. 220094-01-002
220097-01-002

DATE June 20, 2022 LE No. 220094-01-002 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:

- TOTAL AREA DISTURBED = 2.66 ACRES TOTAL SITE AREA = 9.87 ACRES
- VANCE SANDY LOAM & HELENA SANDY LOAM SOIL TYPE =
- 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
- 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
- 6. 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 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 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
- 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
- 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:

ROCKET CARWASH, TOWN OF ZEBULON, WAKE COUNTY, NC

THE WRITTEN PERMISSION OF THE OWNER.

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 BASINS, 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 AND THE LEVEL-SPREADER FILTER STRIP CAN NOW BE INSTALLED. IMMEDIATELY AFTER AN INLET IS INSTALLED, INLET PROTECTION SHALL BE PROPERLY INSTALLED ON THE STRUCTURE. ONCE THE SITE IS READY TO BRING UP TO GRADE, REMOVE SKIMMER BASIN #2. 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 AND DISCHARGE PIPES 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.
- 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
- 5. 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
- 5. 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:

- 1. 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
- 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
- 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
- 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.
- THE LIMITS OF DISTURBANCE OR WITHIN ANY REQUIRED BUFFER LIMITS UNLESS OTHERWISE NOTED OR ILLUSTRATED.

10. CONTRACTOR SHALL NOT DISTURB ANY EXISTING VEGETATIVE GROUND COVER OR TREES OUTSIDE OF

- 11. PROVIDE CONTROLS OF POLLUTANTS, INCLUDING, BUT NOT LIMITED TO DUST CONTROL, DE-WATERING, SOLID WASTE DISPOSAL, AND HAZARDOUS MATERIALS.
- 12. 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.
- 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

- 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. 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
- 16. REFER TO THE GRADING AND DRAINAGE PLAN FOR FINAL SITE AND PAVEMENT GRADES AND ELEVATIONS OF THE PROPOSED STORM SEWER SYSTEMS.
- 17. 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.
- 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 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

- at the job site: The approved E&SC plan as well as any approved deviation.
- The NCG01 permit and the COC, once it is received.
- 3. Records of inspections made during the previous 30 days. 4. The Certificate of Approval

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.
- 5. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING, GRADING OR CONSTRUCTION BEGINS AND IS NOT TO BE REMOVED UNTIL AFTER CONSTRUCTION.

SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.

6. TREE PROTECTION FENCE IS TO BE LOCATED 1 FOOT PER TREE DIAMETER INCH AWAY FROM THE TREE.

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SHEET

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCCO1 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

Required Ground Stabilization Timeframes				
Stabilize within this Site Area Description many calendar days Timeframe variations 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 		
(e) Areas with slopes flatter than 4:1	14	 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless the 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 Temporary Stabilization Permanent 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. without temporary grass seed Plastic sheeting.
- reinforcement matting Hydroseleding 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

surrounded by secondary containment structures.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.

retaining walls

Ralled erosion control products with grass seed.

- 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

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

or disposal center that handles these materials.

- 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

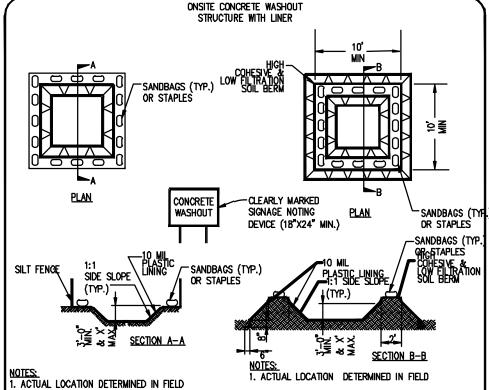
PORTABLE TOILETS

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.



2. THE CONCRETE WASHOUT STRUCTURES SHALL BE THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES
75% OF THE STRUCTURES CAPACITY TO PROVIDE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES

75% OF THE STRUCTURES CAPACITY. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW CRADE WASHOUT STRUCTURE NOT TO SCALE

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.

ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE

ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE

CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

INCHES OF FREEBOARD.

- Manage washout from mortar mixers in accordance with the above item and in addition place to 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
- 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 weekend holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those u attended days jand this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded factor. The permittee may use another rain-monitoring device approved by the Division.
2 E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the 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 \succeq 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 record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has let the site limits. 2. Description, evidence, and date of corrective actions taken, as 3. An explanation as to the actions taken to control future releases.
[5] Streams or wetlands onsite 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 or a 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, an 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item [2] a) of this permit of this permit.
[b] Ground stabilization measures	After each phase of grading	1. The phase of grading linstallation of perimeter EBSC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground coverl. 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soonas possible.

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

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.

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

(b) Records of inspections made during the previous twelve months. The permittee shall record the

site—specific exemption based on unique site conditions that make this requirement not practical:

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

SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

nstallation.

construction phase.

corrective action.

around cover specifications.

Bocumentation Requirements

Initial and date each E&SC Measure on a copy

E&SC Measure shown on the approved E&SC

initial installation of the E&SC Measures or if

the E&SC Measures are modified after initial

Initial and date a copy of the approved E&SC

eport to indicate completion of the

Plan or complete, date and sign an inspection

Initial and date a copy of the approved E&SC

Plan or complete, date and sign an inspection

eport to indicate compliance with approved

omplete, date and sign an inspection report.

Initial and date a copy of the approved E&SC

Plan or complete, date and sign an inspection.

eport to indicate the completion of the

Plan. This documentation is required upon the

of the approved E&SC Plan or complete, date

pertaining to the E&SC plan shall be kept on site and available for inspection at all times during

locations, dimensions and relative elevations | and sign an inspection report that lists each

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

Item to Document

shown on the approved E850 Plan.

(a) Each E&SC Measure has been installed

and does not significantly deviate from the

(b) A phase of grading has been completed.

(c) Ground cover is located and installed

in accordance with the approved E&SC

(d) The maintenance and repair

have been performed.

to E&SC Measures.

requirements for all E&SC Measures

(e) Corrective actions have been taken

2. Additional Documentation to be Kept on Site

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]

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.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

(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

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. 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 release of hazardous substances per item 1(b)-(c) above	Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated	A report at least ten days before the date of the bypass, if possible. The spont shall include an explanation of the patiel stand quality and

bypasses [40 CFR] The report shall include an evaluation of the anticipated quality and 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.

with the conditions Within 7 calendar days, a report that contains a description of the 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).

Within 24 hours, an oral prejectronic notification.

Division staff may waive the requirement for a written report on a case-by-case basis.

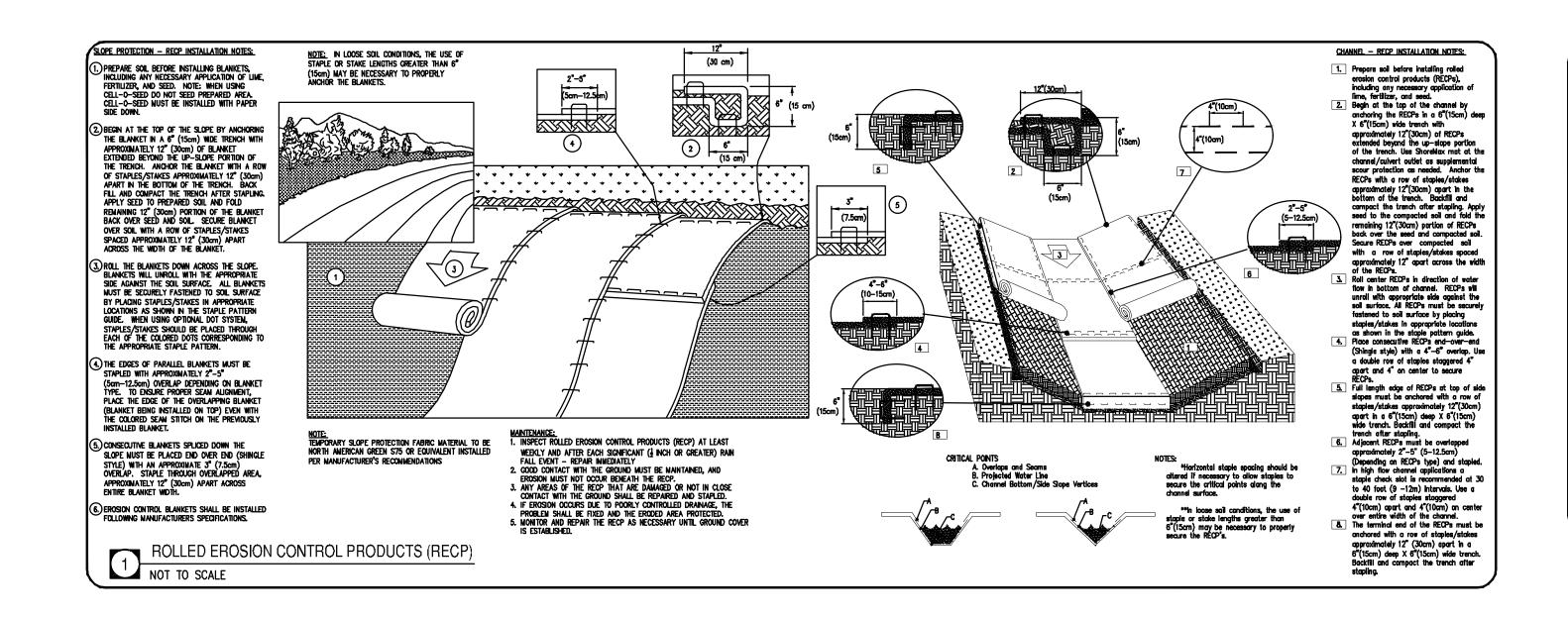
PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

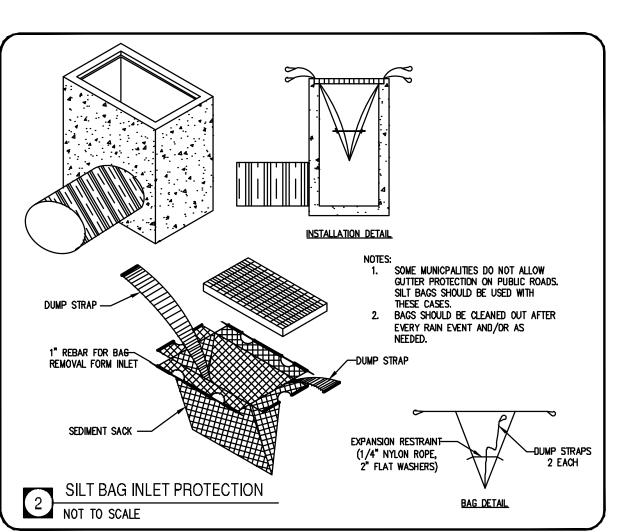
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be arawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw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

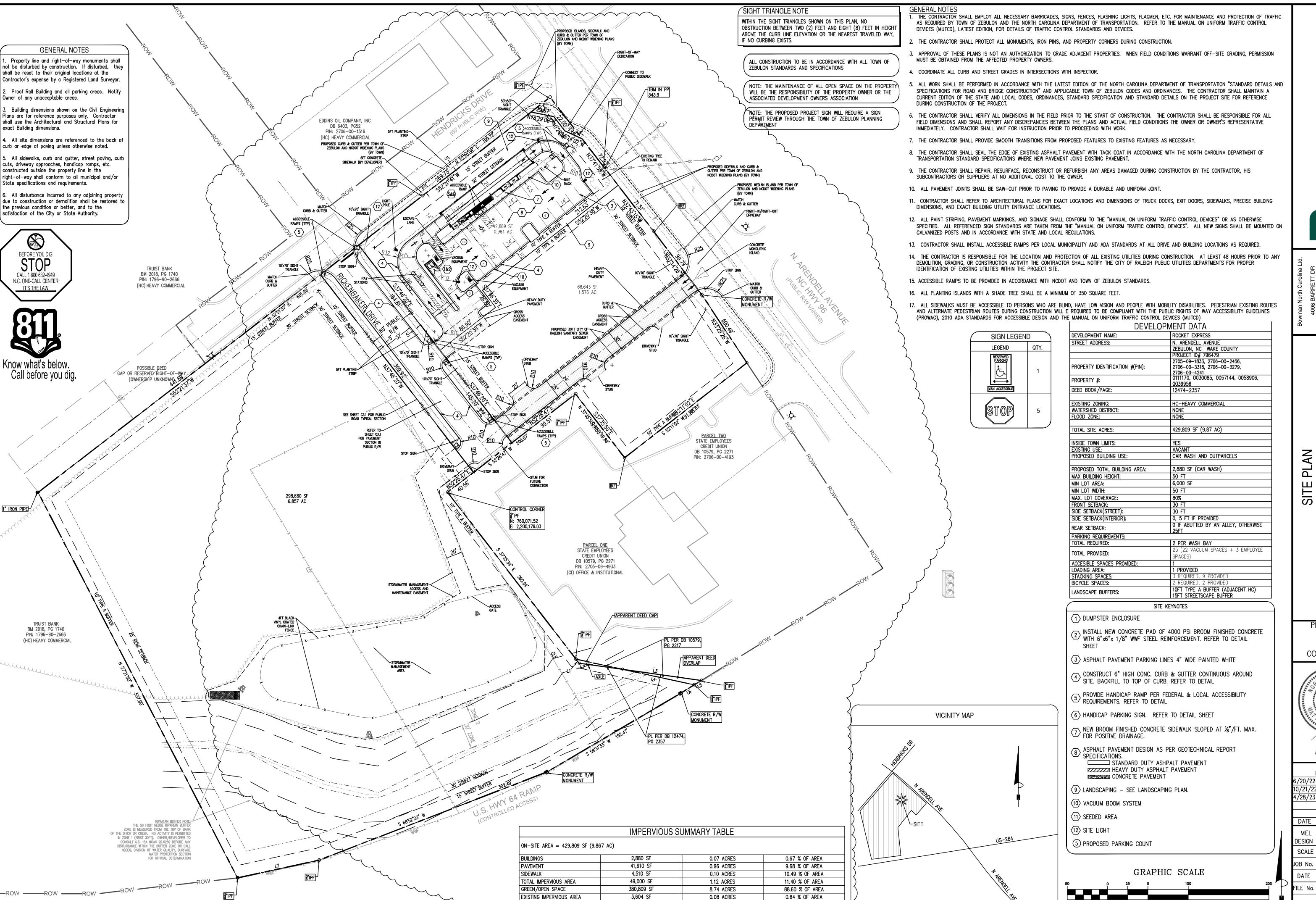
- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items.
- (b) The non-surface withdrawal has 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

(e) Noncompliance







45,396 SF

INCREASE IN IMPERVIOUS AREA

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\220097-01-002-51T.dwg

1.04 ACRE

Was Rocket
Arende

PRELIMINARY DO NOT USE FOR CONSTRUCTION



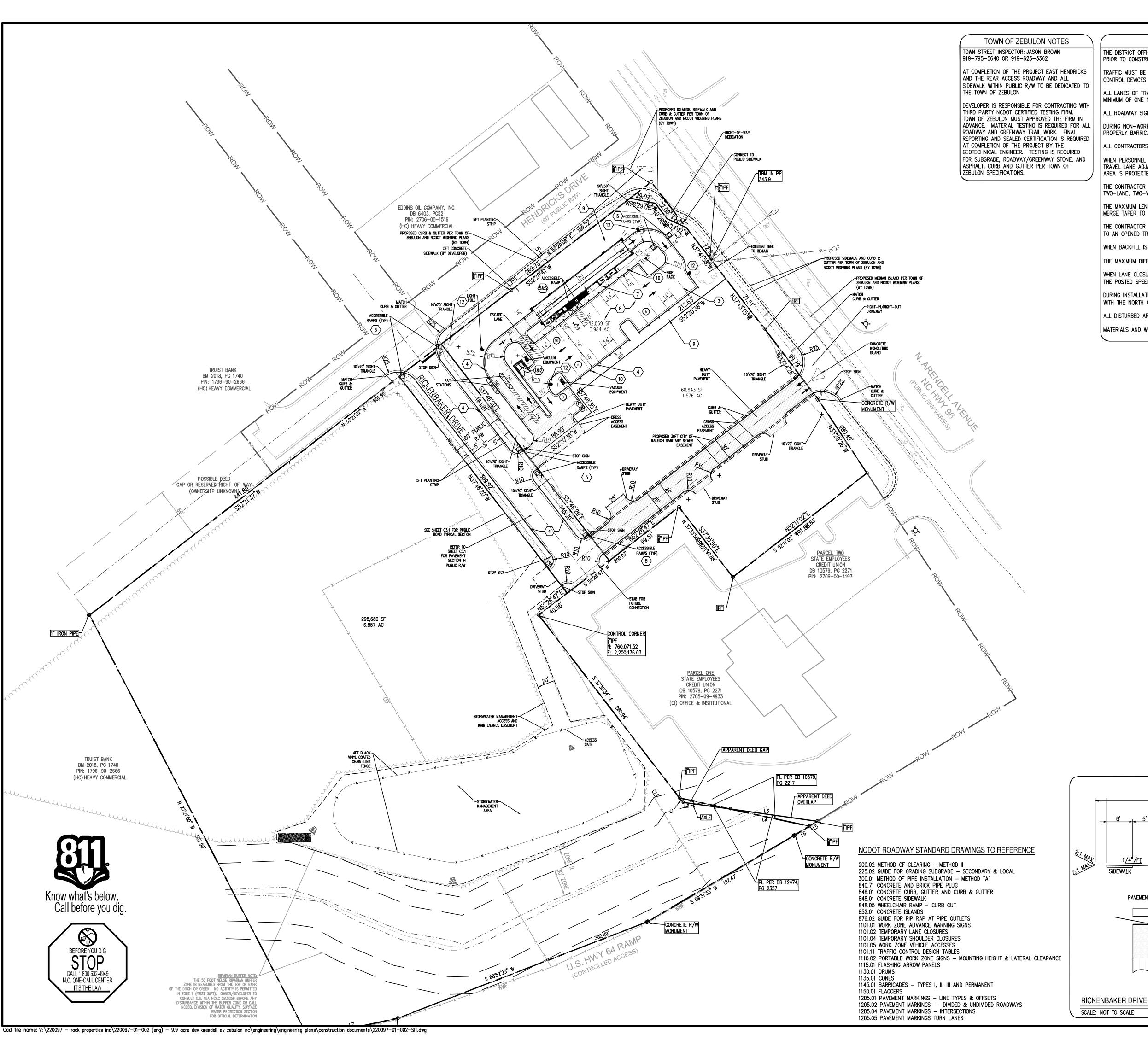
PLAN STATUS /22|SITE PLAN SUBMIT 10/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD SCALE

DATE June 20, 2022

C3.0

(IN FEET)

1 inch = 50 ft.



TRAFFIC CONTROL NOTES

THE DISTRICT OFFICE OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.

TRAFFIC MUST BE MAINTAINED AT ALL TIMES AND TRAFFIC CONTROL MUST COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND WITH THE CURRENT EDITION OF THE NCDOT STANDARDS AND SPECIFICATIONS.

ALL LANES OF TRAFFIC ARE TO BE OPEN DURING THE HOURS OF 6:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED AT ALL TIMES.

ALL ROADWAY SIGNS WHICH ARE TO BE REMOVED DURING CONSTRUCTION ARE TO BE REINSTALLED AS SOON AS POSSIBLE.

DURING NON-WORKING HOURS, EQUIPMENT IS TO BE PARKED AS CLOSE TO THE RIGHT OF WAY LINE AS POSSIBLE AND BE PROPERLY BARRICADED IN ORDER TO PREVENT ANY EQUIPMENT OBSTRUCTION WITHIN THE TRAVEL LANE.

ALL CONTRACTORS DOING WORK WITHIN STATE RIGHT OF WAY ARE TO HAVE A COPY OF THESE PLANS ON THE JOB SITE.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 5' OF AN OPEN TRAVEL LANE, THE CONTRACTOR SHALL CLOSE THE OPEN TRAVEL LANE ADJACENT TO THE WORK AREA USING APPROPRIATE TRAFFIC CONTROL MEANS AND METHODS UNLESS WORK IN THAT AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

THE CONTRACTOR SHALL NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF AN OPEN TRAVEL WAY WITHIN THE SAME LOCATION ON A TWO-LANE, TWO-WAY ROAD.

THE MAXIMUM LENGTH OF A LANE CLOSURE ON THE PROJECT SHALL BE ONE MILE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

THE CONTRACTOR SHALL BACKFILL AT 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF OF MORE THAN 3".

WHEN BACKFILL IS REQUIRED, IT SHALL BE AT NO EXPENSE TO THE OWNER.

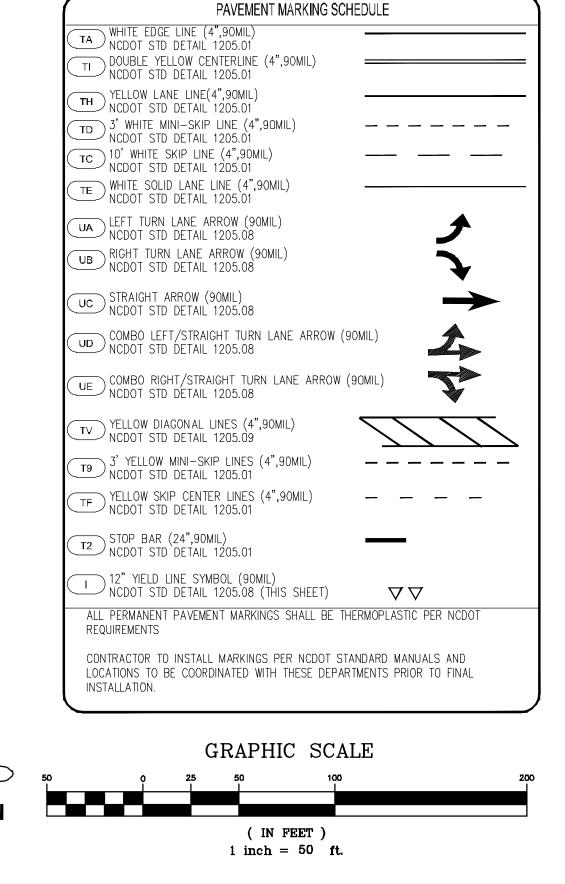
THE MAXIMUM DIFFERENCE IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC SHALL BE 2".

WHEN LANE CLOSURES ARE NOT IN EFFECT, CHANNELIZING DEVICES IN WORK AREAS SHALL BE SPACED NO GREATER THAN TWICE THE POSTED SPEED LIMIT, EXCEPT 10' ON-CENTER IN RADII, AND SHALL BE SET 3' OFF THE EDGE OF AN OPEN TRAVEL WAY.

DURING INSTALLATION, PROPER TRAFFIC CONTROL DEVICES, SIGNS, ETC. BE INSTALLED TO ENSURE PUBLIC SAFETY IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S STANDARDS AND SPECIFICATIONS

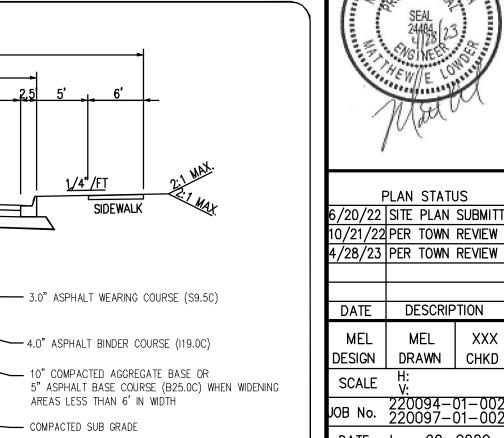
ALL DISTURBED AREAS ARE TO BE FULLY RESTORED TO NCDOT MINIMUM ROADWAY STANDARDS.

MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NCDOT ROADWAY STANDARDS AND SPECIFICATIONS (LATEST EDITION).



18.5' CL TO BC

PAVEMENT SECTION



SIDEWALK

- COMPACTED SUB GRADE

DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, LATEST EDITION

MATERIALS AND CONSTRUCTION REQUIREMENTS PER THE NORTH CAROLINA

4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL XXX DESIGN | DRAWN | CHKD DATE June 20, 2022

C3.1

SHEET

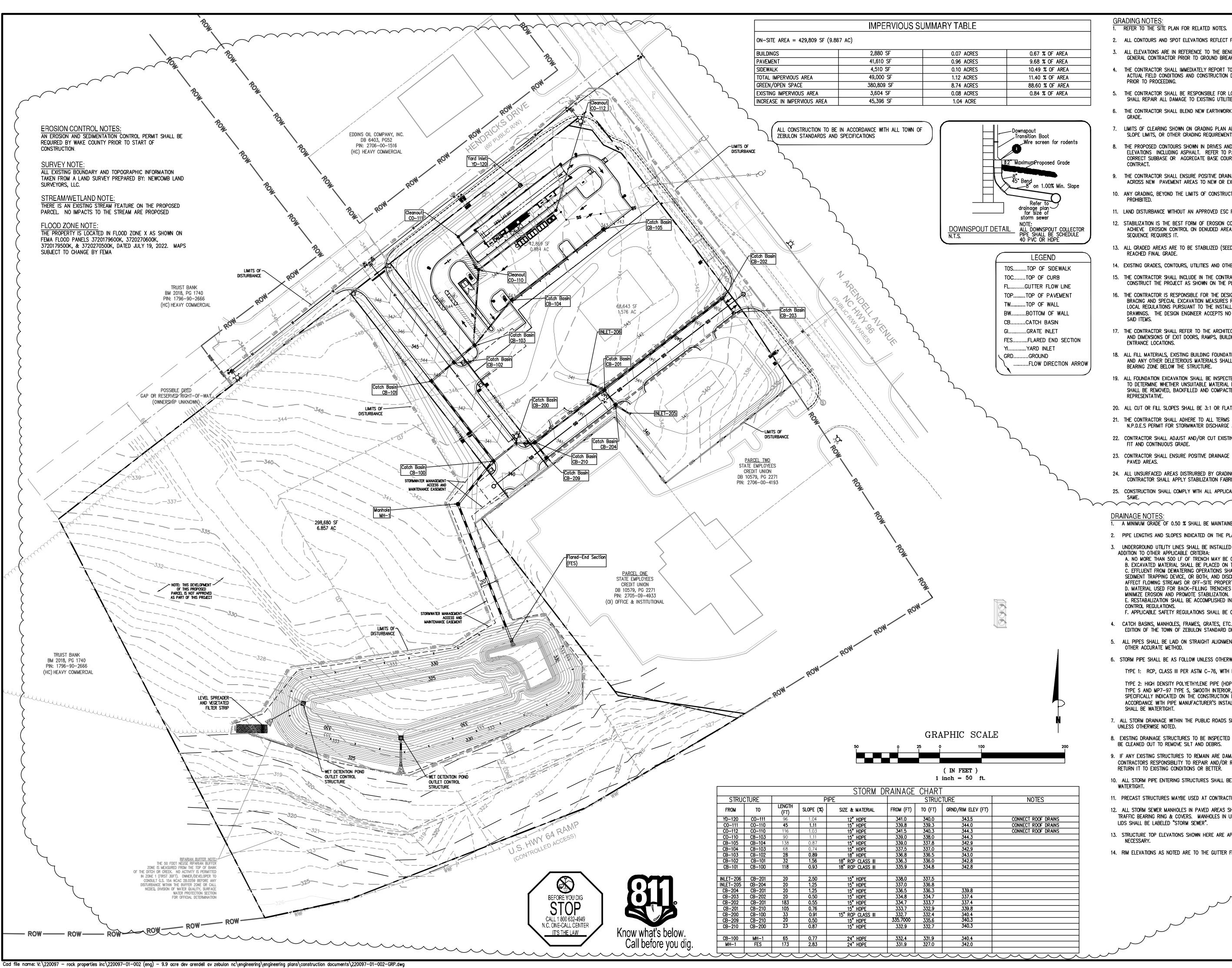
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Project ID#

DWAY

ROA

PRELIMINARY DO NOT

USE FOR CONSTRUCTION



1. 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.

6. 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 SEQUENCE REQUIRES IT.

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

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.

DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL

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

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

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

1. 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.

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 TOWN OF ZEBULON STANDARD DRAWINGS AND SPECIFICATIONS.

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:

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

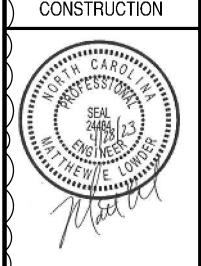
14. RIM ELEVATIONS AS NOTED ARE TO THE GUTTER FLOW LINE.

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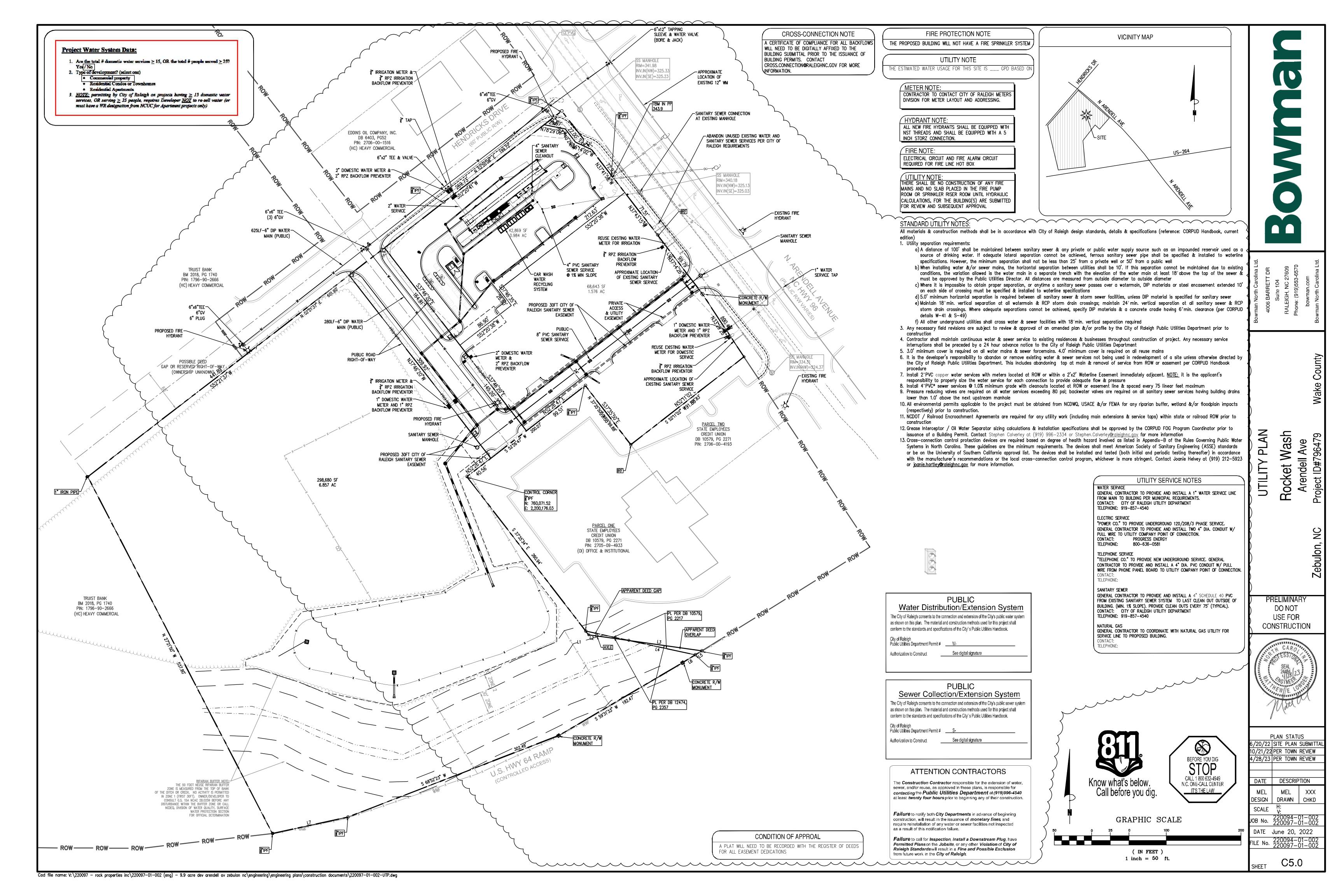
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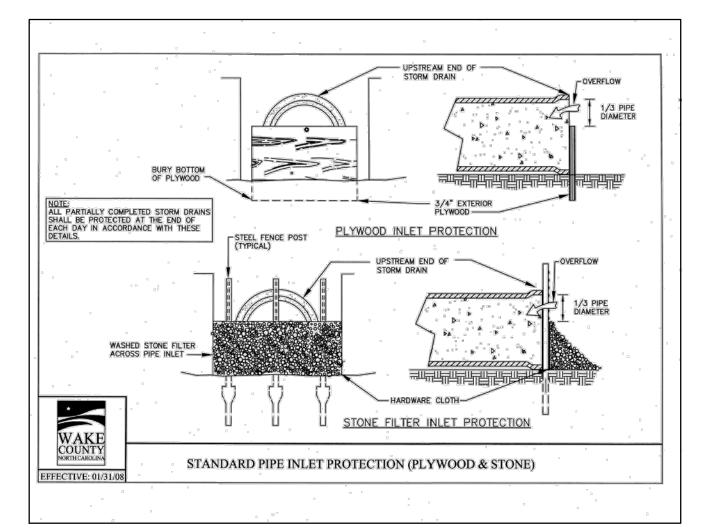


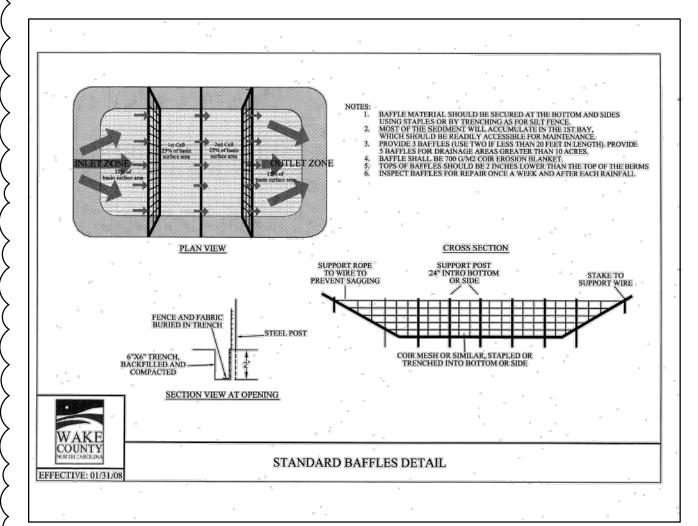
PLAN STATUS 2|SITE PLAN SUBMIT /22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW

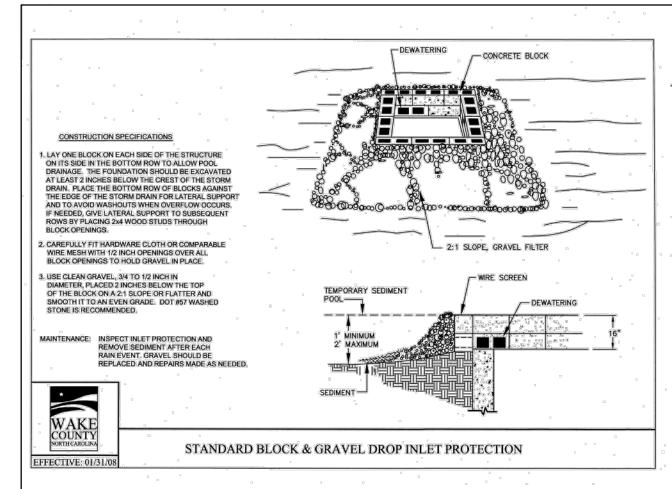
DATE | DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE DATE June 20, 2022

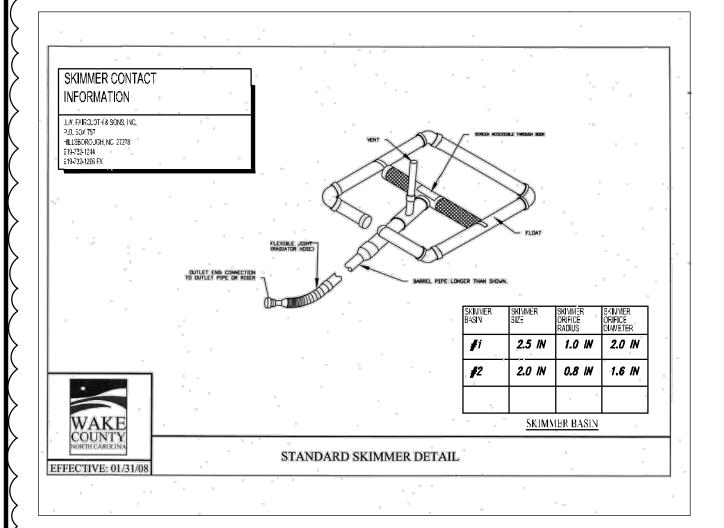
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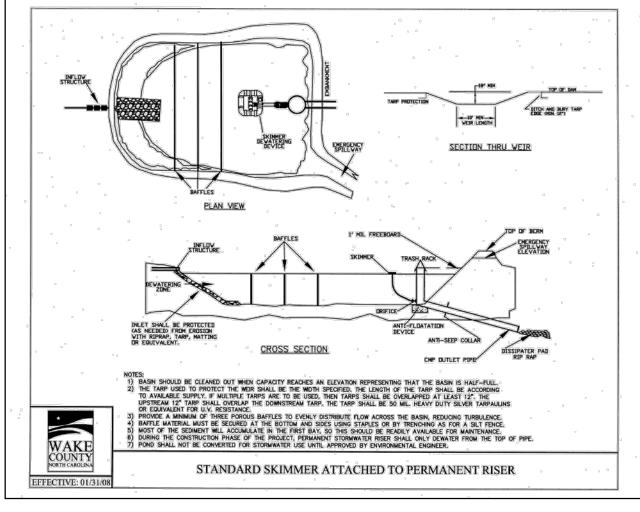


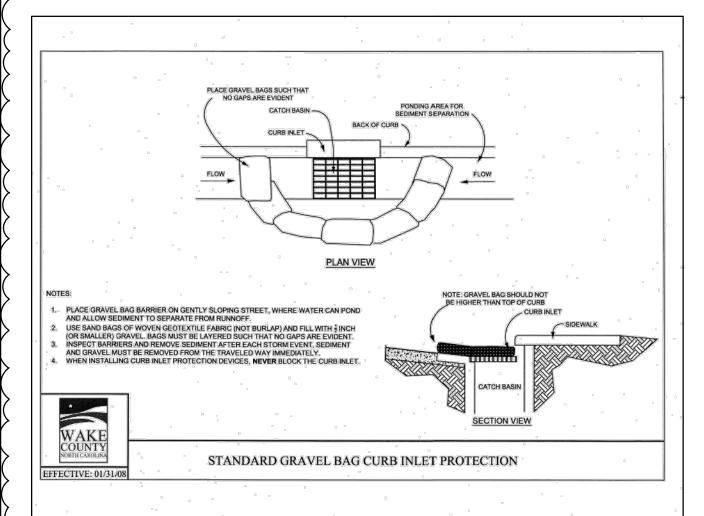


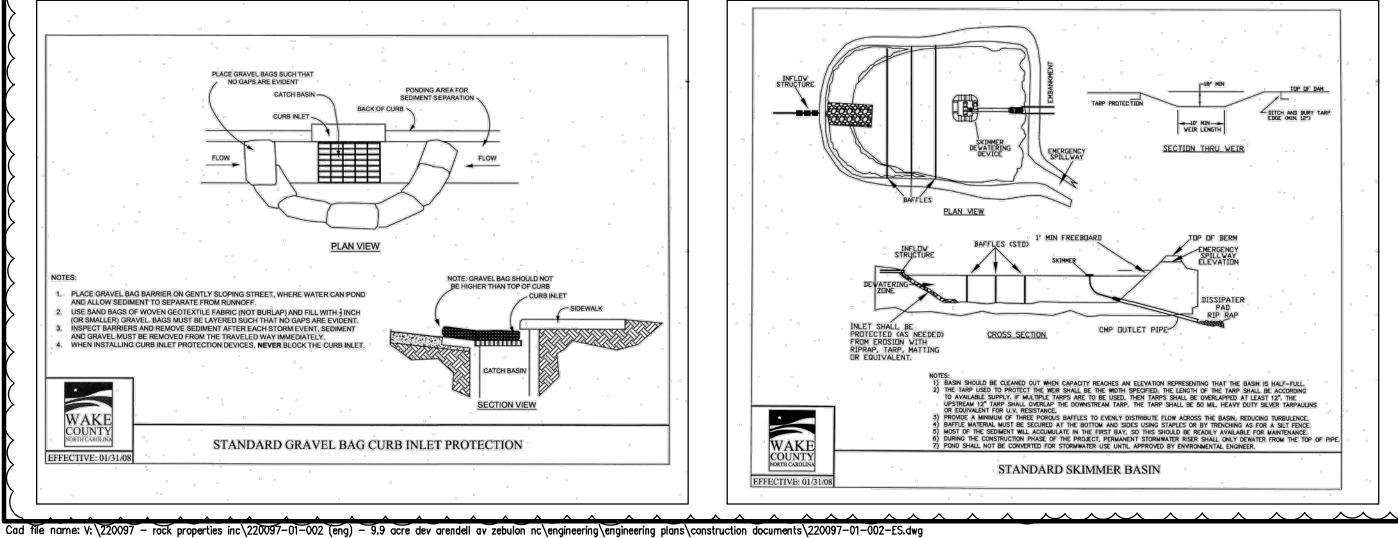


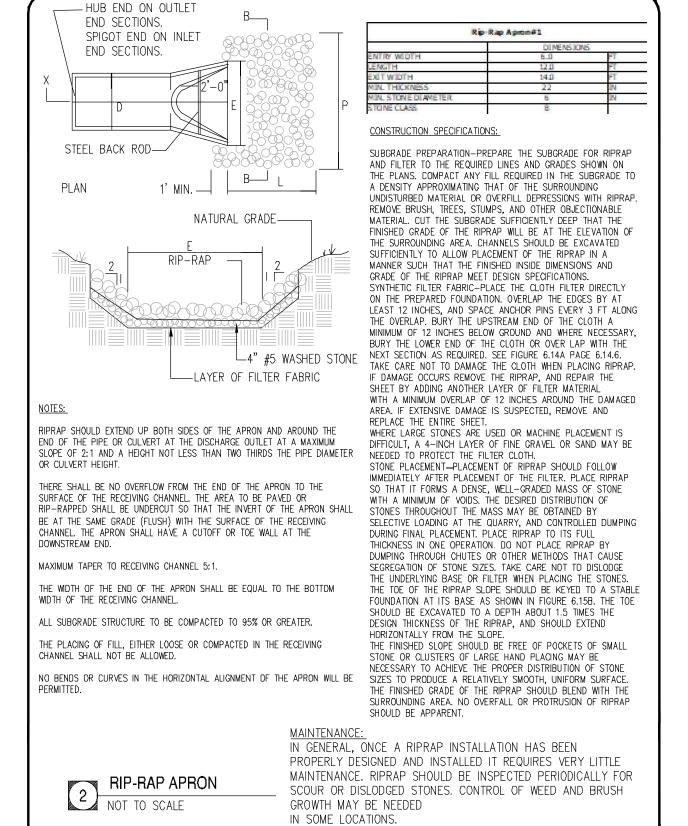


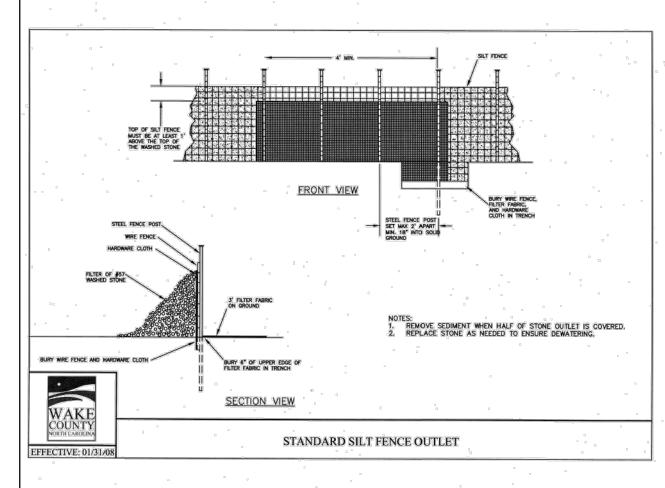


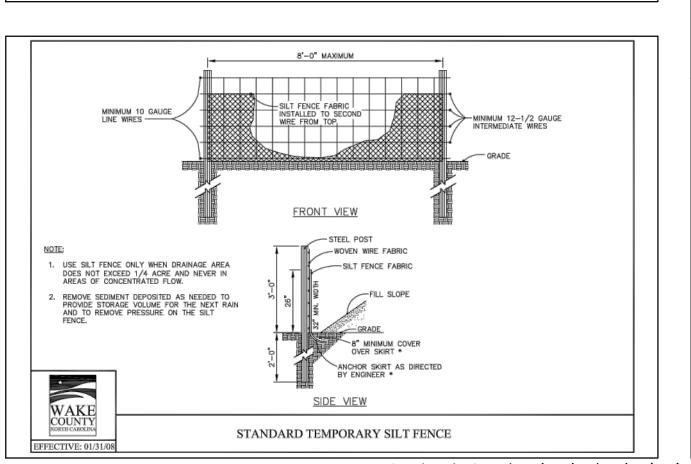


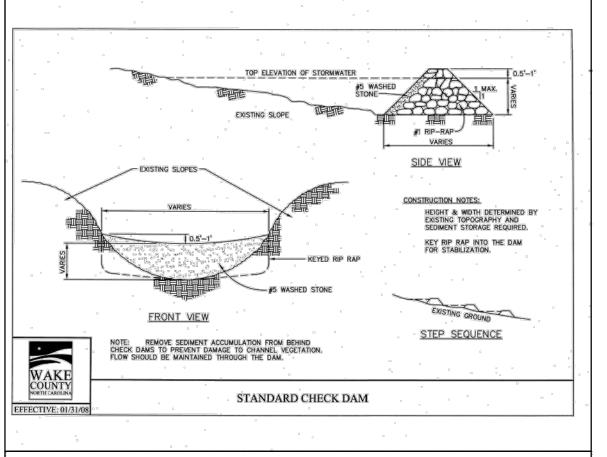


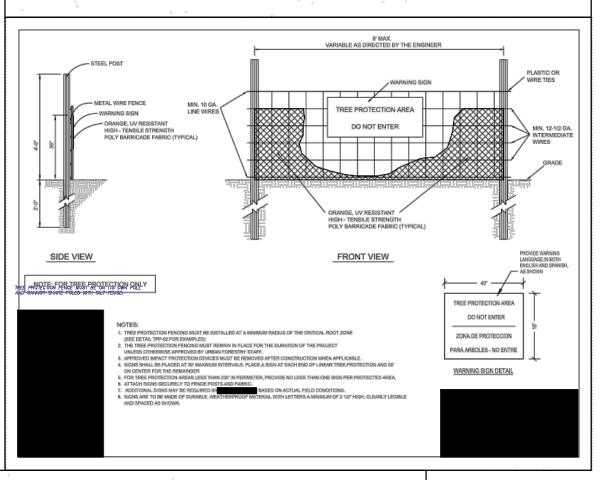


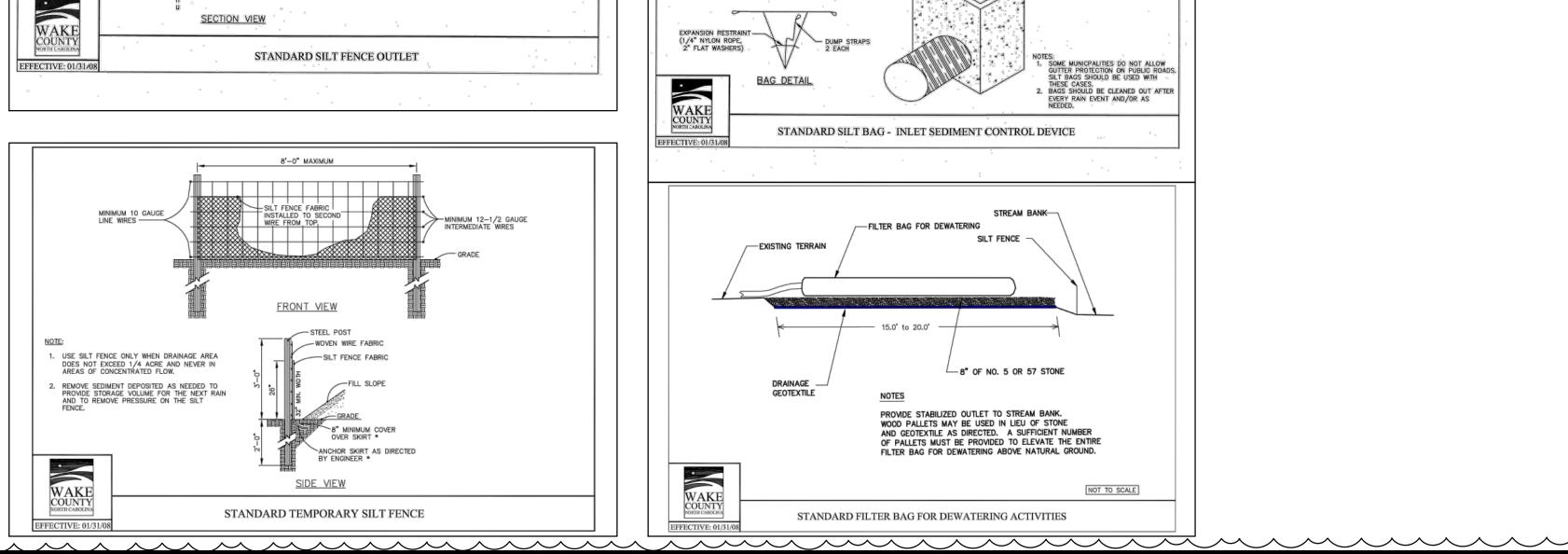




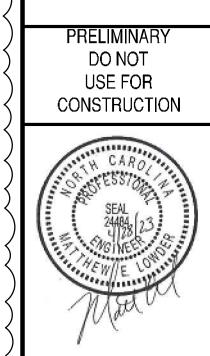








INSTALLATION DETAIL



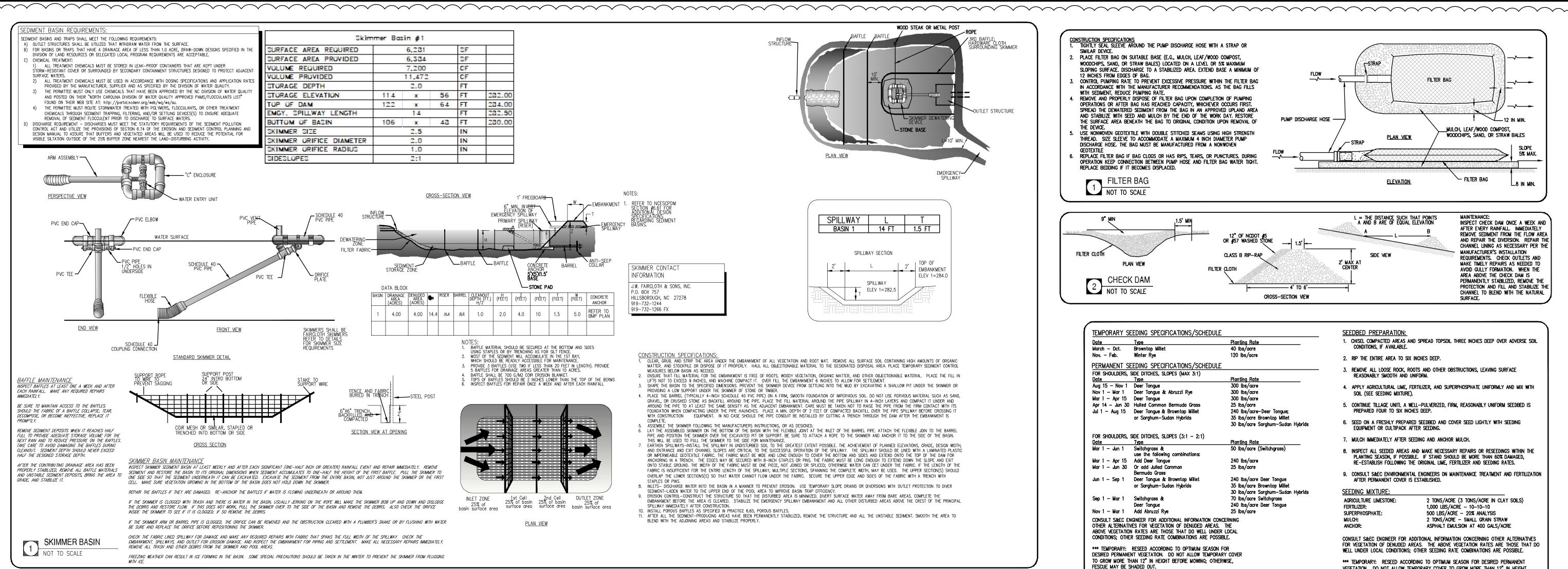
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	4/28/23	PER TOWN	REVIEW
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$\langle $	DATE	June 20,	
\langle	FILE No.	220094- 220097-	01-002 01-002

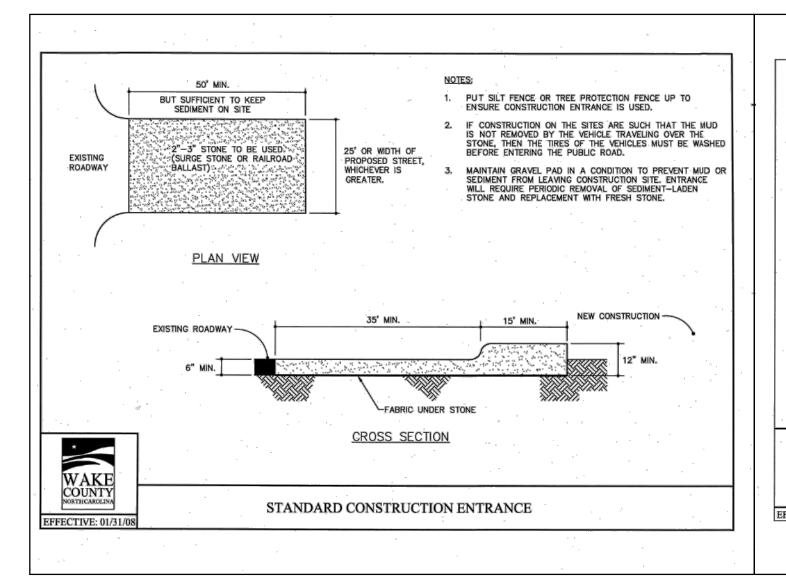
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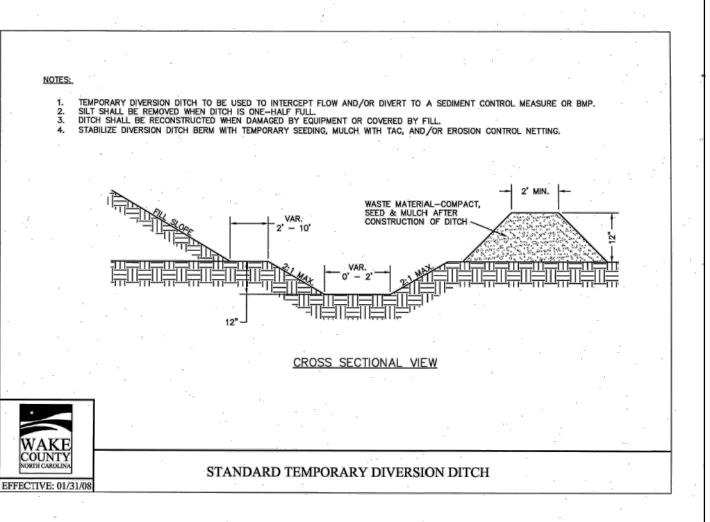
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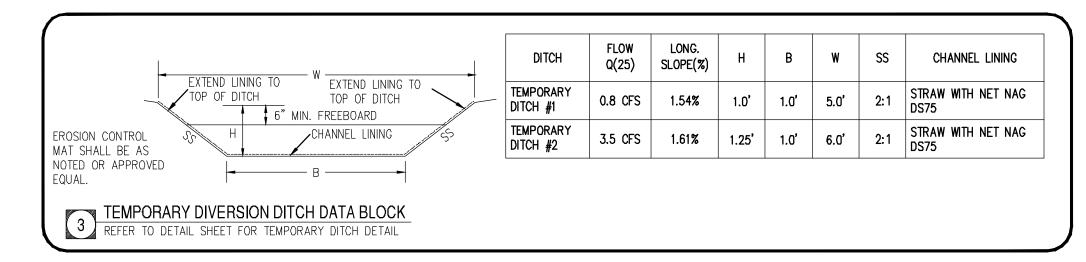
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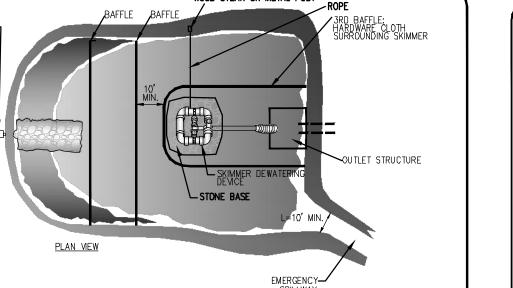








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Mar 1 - Jun 30 Or add Julled Common Bermuda Grass Jun 1 - Sep 1 Deer Tongue & Browntop Millet 240 lbs/acre Deer Tongue 35 lbs/acre Browntop Millet or Sorghum—Sudan Hybrids 30 lbs/acre Sorghum-Sudan Hybrids Sep 1 - Mar 1 Switchgrass & 70 lbs/acre Switchgrass 240 lbs/acre Deer Tongue Nov 1 - Mar 1 Add Abruzzi Rye 25 lbs/gcre CONSULT S&EC ENGINEER FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL

*** 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,

CONSTRUCTION SPECIFICATIONS

1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR

2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST,

WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM

REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING

OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST.

THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP

DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN

SIMILAR DEVICE.

12 INCHES FROM EDGES OF BAG.

WITH SEDIMENT, REDUCE PUMPING RATE.

REPLACE BEDDING IF IT BECOMES DISPLACED.

FILTER BAG

NOT TO SCALE

FESCUE MAY BE SHADED OUT. TEMPORARY SEEDING NOT TO SCALE

Apr 14 - Jun 30 Hulled Common Bermuda Grass

Jul 1 - Aug 15 Deer Tongue & Browntop Millet

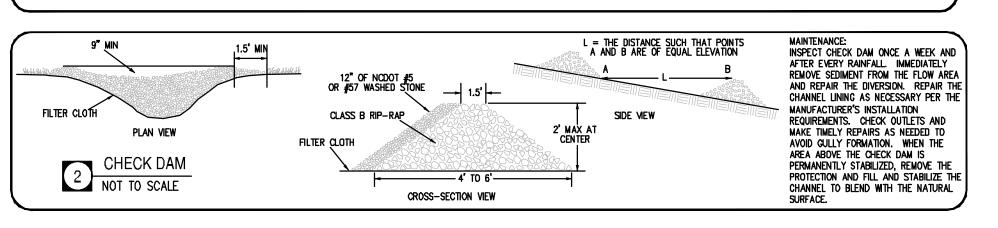
FOR SHOULDERS, SIDE DITCHES, SLOPES (3:1 - 2:1)

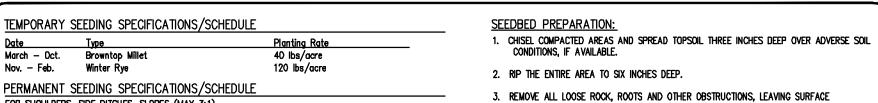
Mar 1 - Apr 15 Add Deer Tongue

or Sorghum-Sudan Hybrids

use the following combinations:

SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF FILTER BAG CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE PUMP DISCHARGE HOSE -THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF MULCH, LEAF/WOOD COMPOST, USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH WOODCHIPS, SAND, OR STRAW BALES PLAN VIEW SLOPE 5% Max. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. **ELEVATION** L8 IN MIN.





FOR SHOULDERS, SIDE DITCHES, SLOPES (MAX 3:1) REASONABLY SMOOTH AND UNIFORM. Date Type
Aug 15 - Nov 1 Deer Tongue Planting Rate 300 lbs/acre 4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH Nov 1 – Mar 1 Deer Tongue & Abruzzi Rye 300 lbs/acre SOIL (SEE SEEDING MIXTURE). Mar 1 - Apr 15 Deer Tongue 300 lbs/acre

240 lbs/acre-Deer Tongue;

35 lbs/acre Browntop Millet

50 lbs/acre (Switchgrass)

5. CONTINUE TILLAGE UNITL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP. 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING 30 lbs/acre Sorghum-Sudan Hybrids

EQUIPMENT OR CULTIPACK AFTER SEEDING.

7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE

PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

9. CONSULT S&EC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDING MIXTURE: AGRICULTURE LIMESTONE Fertilizer:

SUPERPHOSPHATE:

ANCHOR:

2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS) 1,000 LBS/ACRE - 10-10-10 500 LBS/ACRE - 20% ANALYSIS 2 TONS/ACRE - SMALL GRAIN STRAW ASPHALT EMULSION AT 400 GALS/ACRE

CONSULT S&EC ENGINEER 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 ARE POSSIBLE. *** 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.

8. Inspect all seeded areas and make necessary repairs or reseedings within the planting season, if possible. If stand should be more than 60% damaged, re establish following the original lime, fertilizer and seeding rates. 9. Consult Wake County Soil & Water or NC State Cooperative Extension on maintenance treatment and fertilization after permanent cover is established Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils) 1,000 lbs/acre - 10-10-10 Fertilizer Superphosphate 500 lbs/acre - 20% analysis Mulch 2 tons/acre – small grain straw Anchor Asphalt emulsion at 400 gals/acre

Seeding Schedule For Shoulders, Side Ditches, Slopes (Max 3:1) **Planting Rate**

Aug 15- Tall Fescue 300 lbs/acre Tall Fescue & Abruzzi Rye 300 lbs/acre Mar 1

Tall Fescue 300 lbs/acre Apr 15 Apr 15- Hulled Common 25 lbs/acre

Jun 30 Bermudagrass

Jul 1- Tall Fescue AND Browntop 125 lbs/acre (Tall Fescue); 35 Aug 15 Millet or Sorghum-Sudan lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids) Hybrids***

Seeding Specifications

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1 - 4/1/19)

NCDEQ/Division of Energy, Mineral and Land Resources Timetrame variations (e) Areas with slopes

Seedbed Preparation:

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available. 2. Rip the entire area to six inches deep. 3. Remove all loose rock, roots and other obstructions, leaving surface
- reasonably smooth and uniform. 4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with
- soil (see mixture below). 5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is
- prepared four to six inches deep.
- 6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding. Mulch immediately after seeding and anchor mulch.



PRELIMINARY

DO NOT

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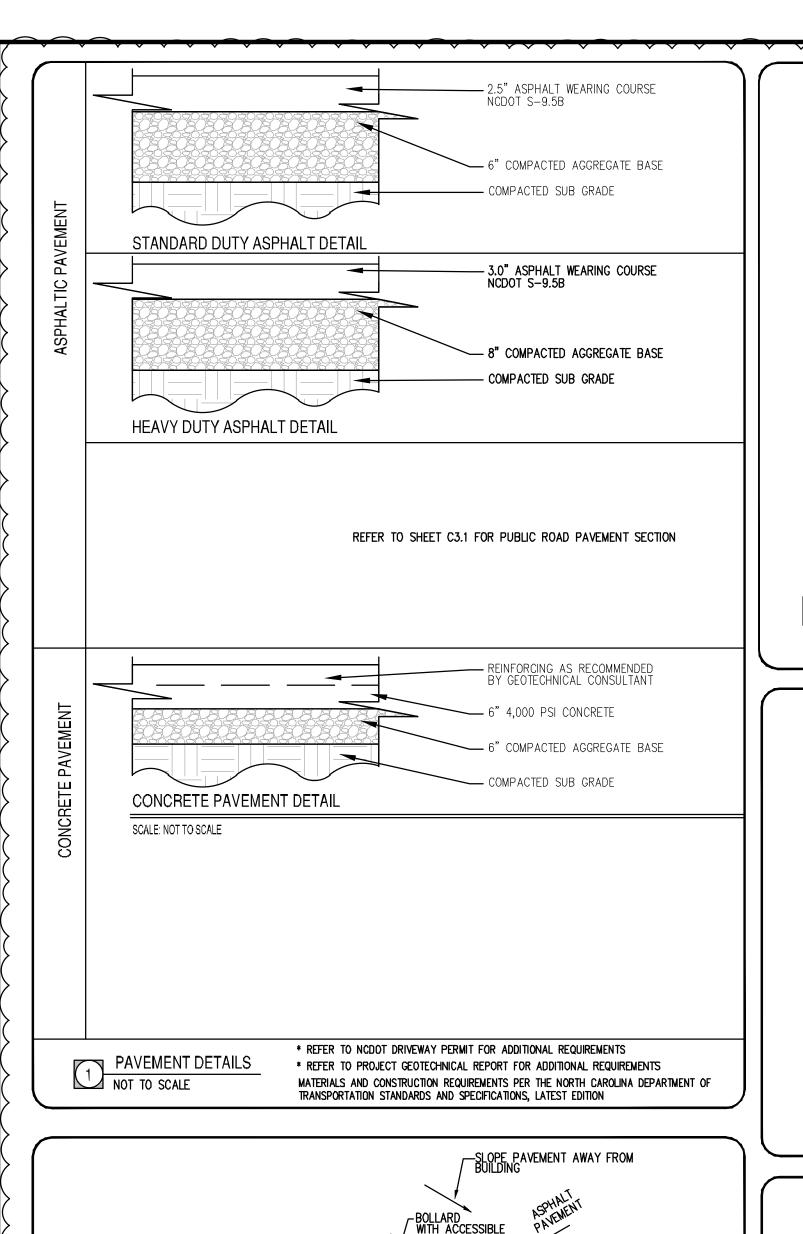
Wash

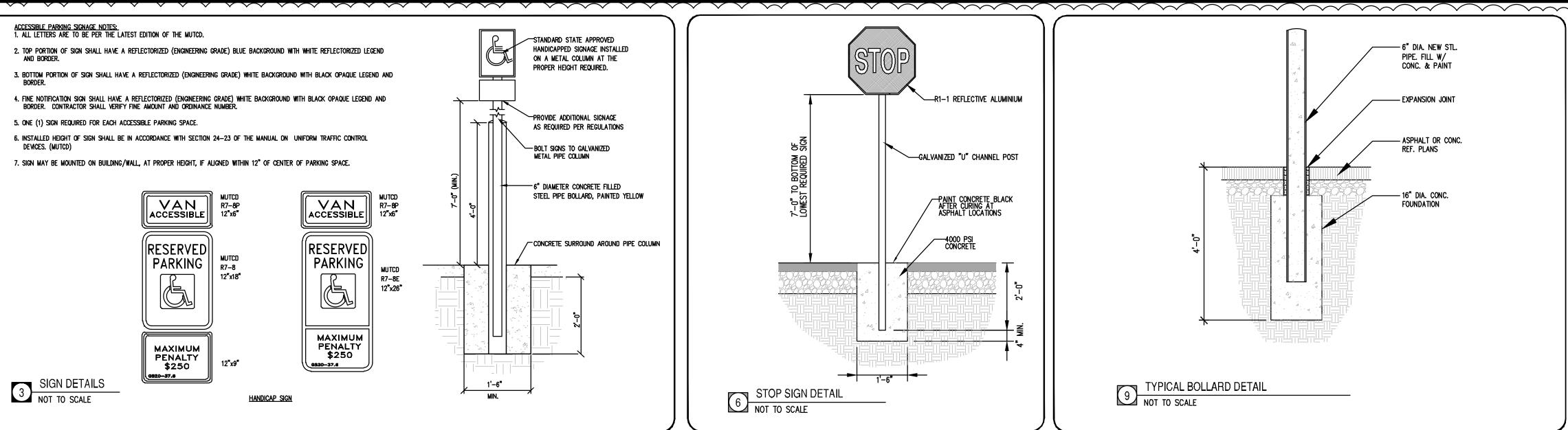
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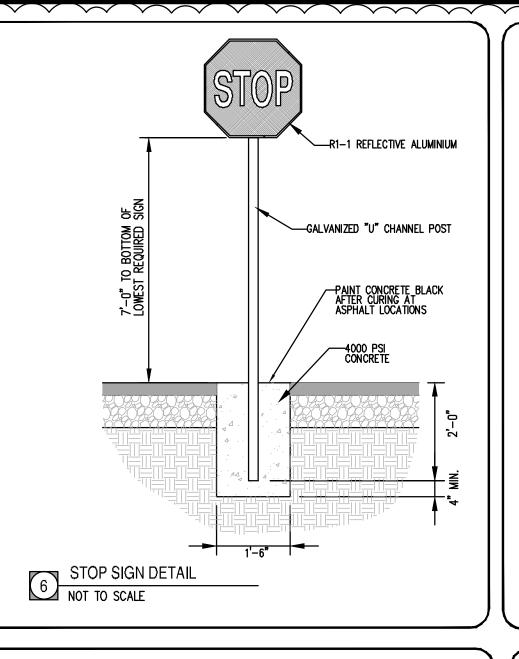
PLAN STATUS '20/22|SITE PLAN SUBMIT 10/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE | DESCRIPTION MEL MEL DESIGN | DRAWN | CHKD SCALE

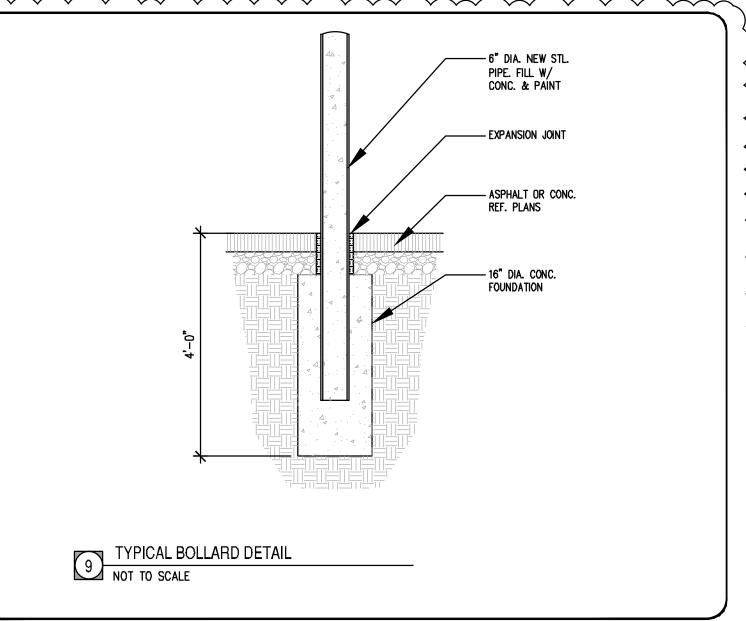
DATE June 20, 2022

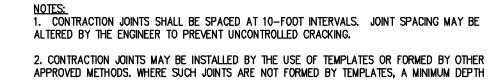




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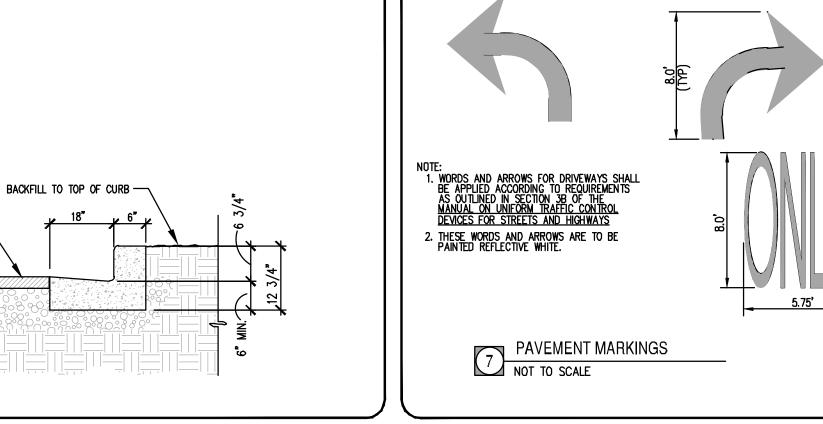


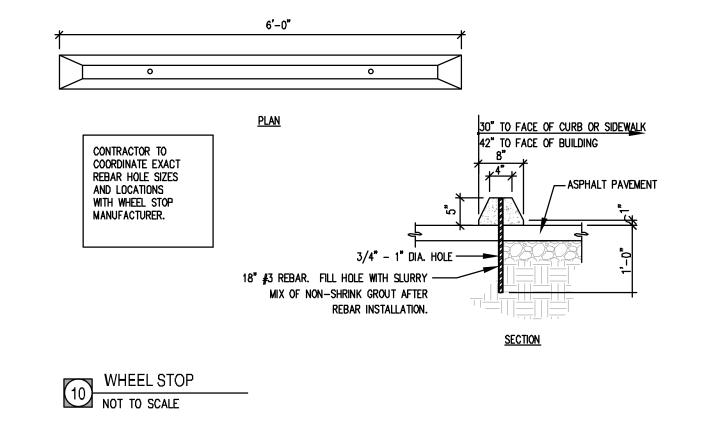


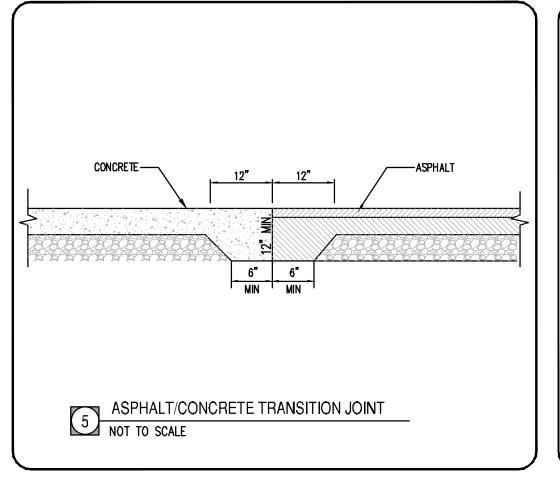


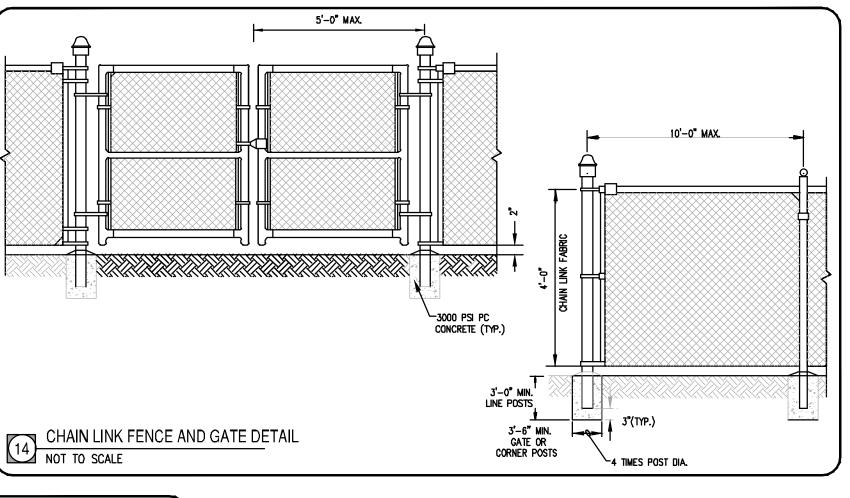
- OF 1 1/2" SHALL BE OBTAINED. 3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL
- RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
- 4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS. 5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
- 6. TOP 6" OF SUB-GRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 100

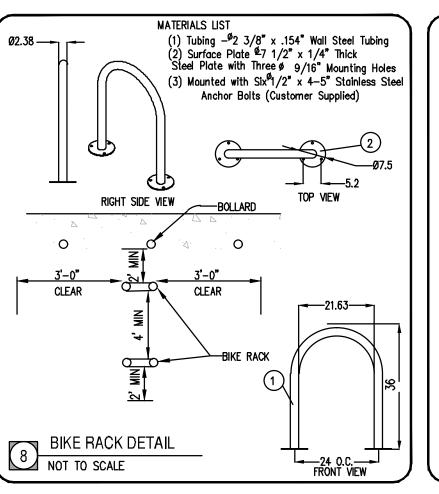


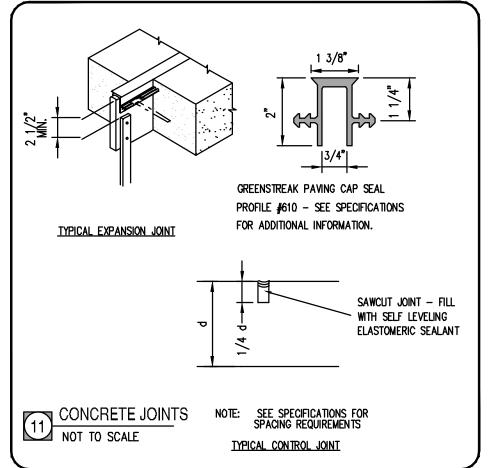


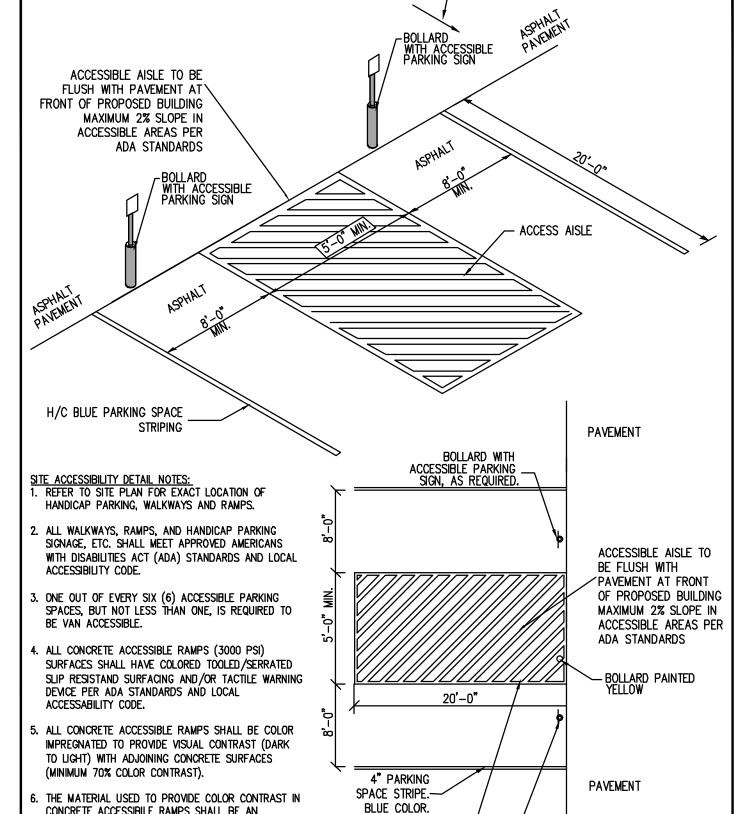












" PAINTED STRIPES -H.C. BLUE COLOR

BOLLARD WITH ACCESSIBLE-PARKING SIGN, AS REQUIRED.

CONCRETE ACCESSIBILE RAMPS SHALL BE AN

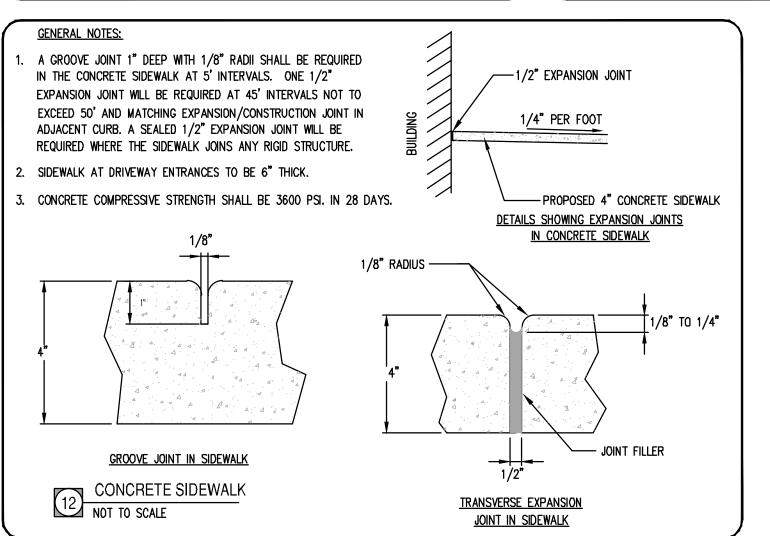
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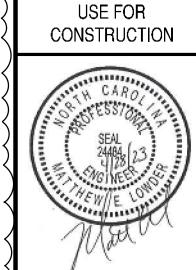
INTEGRAL (PERMANENT) PART OF THE CONCRETE AND

SHALL NOT BE PAINTED ON OR CAPABLE OF FADING

. FINISHED GRADES OF PAVEMENT IN HC PARKING AND ACESSIBILITY AISLE SHALL NOT EXCEED 1:50 SLOPE IN

ACCESSIBLE PARKING DETAIL





PLAN STATUS '20/22|SITE PLAN SUBMIT 10/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE W: 1 = +6 V: 1" = XXX' DATE June 20, 2022 C6.2

ALL ACCESSIBLE RAMP AND ACCESS AISLES

SHALL MEET ALL CODES AND ADAAG

REGULATIONS.

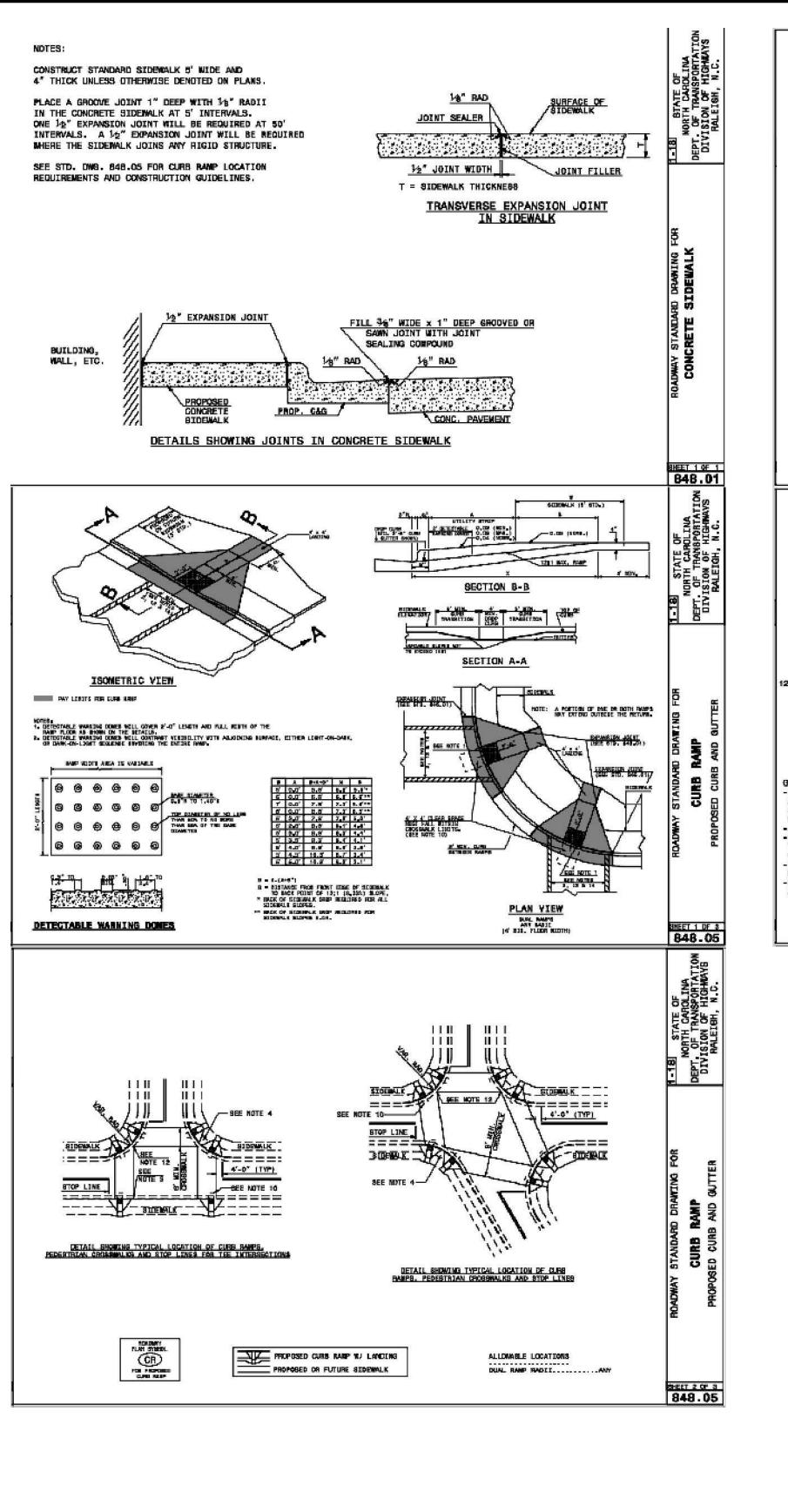
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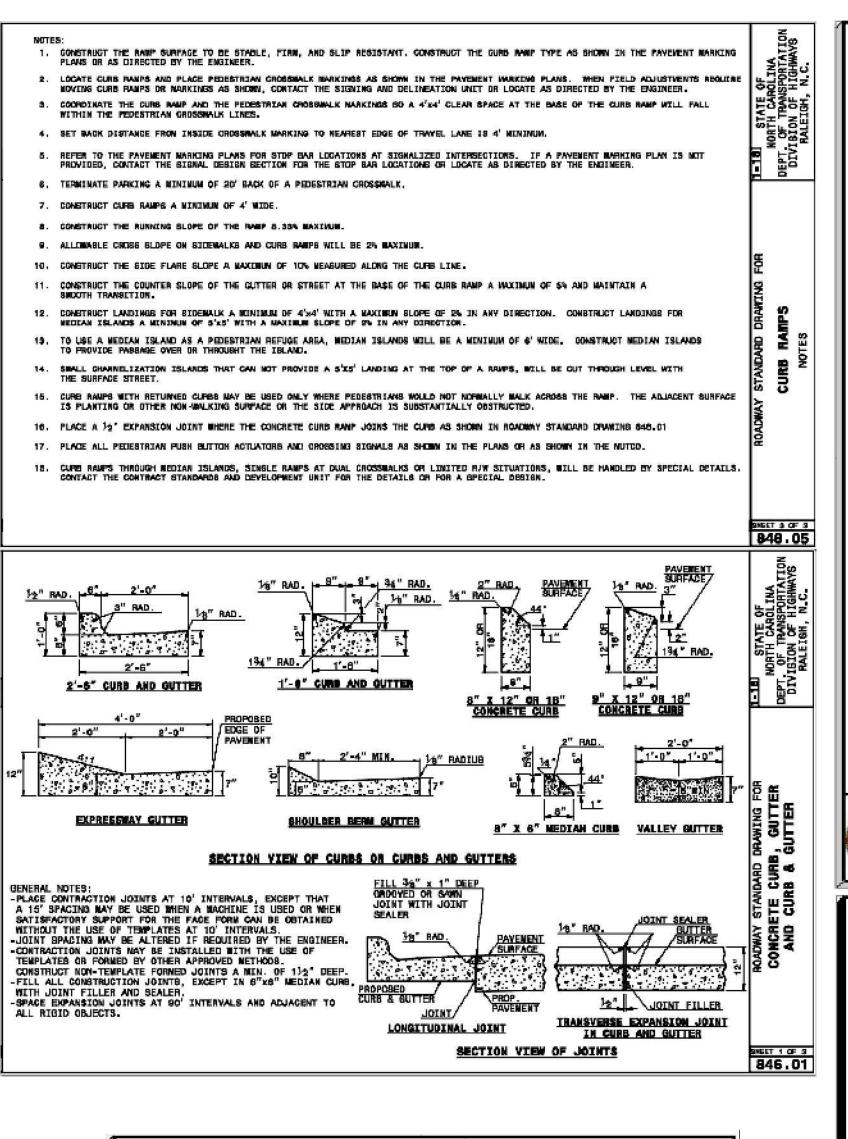
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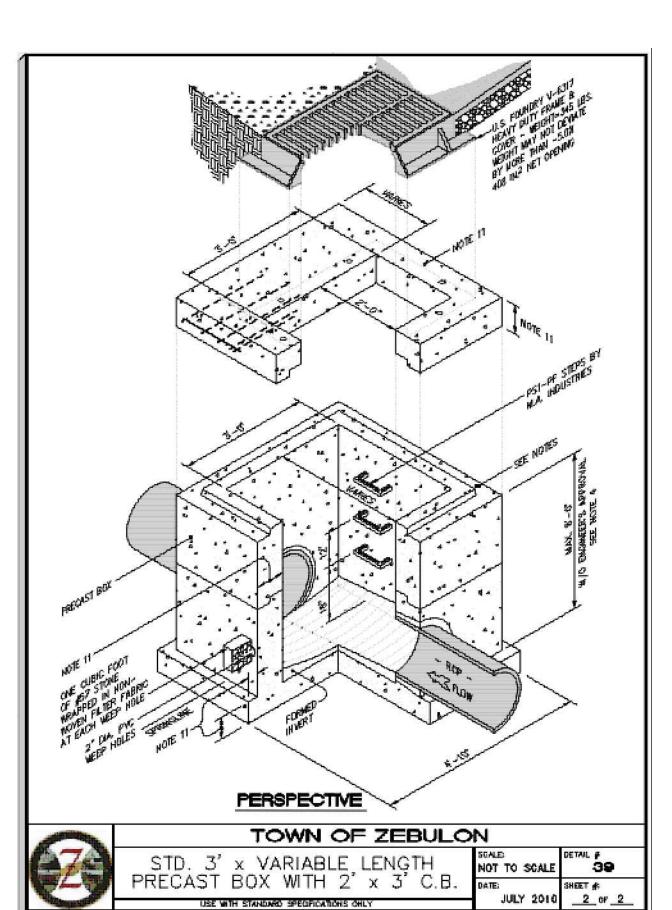
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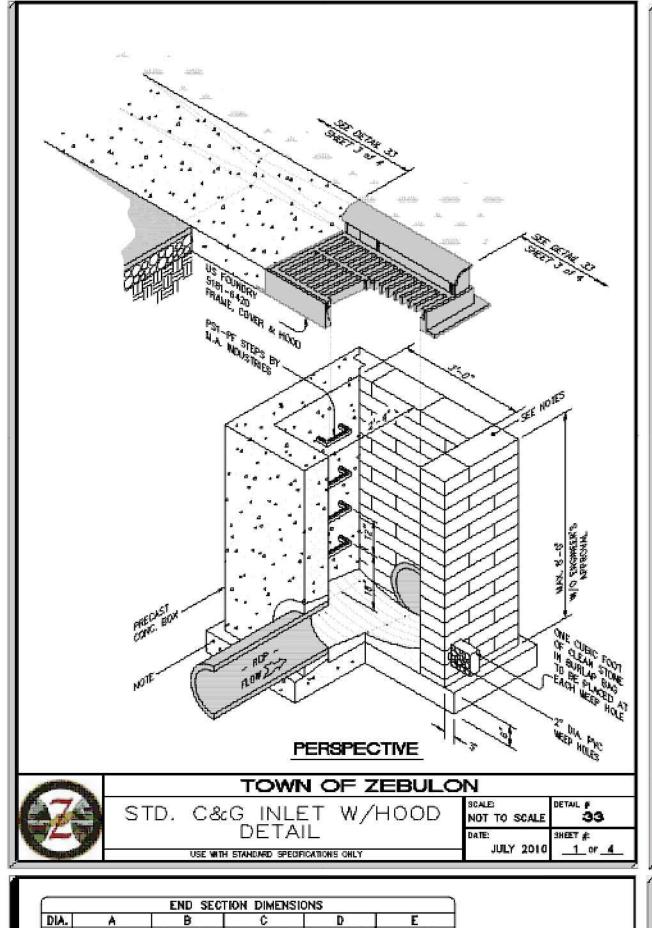
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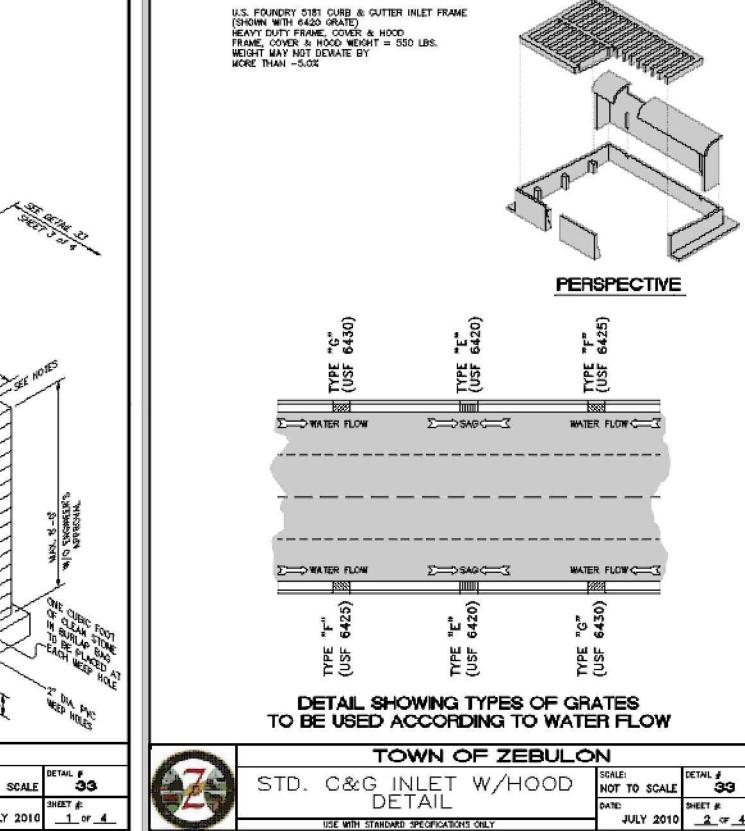
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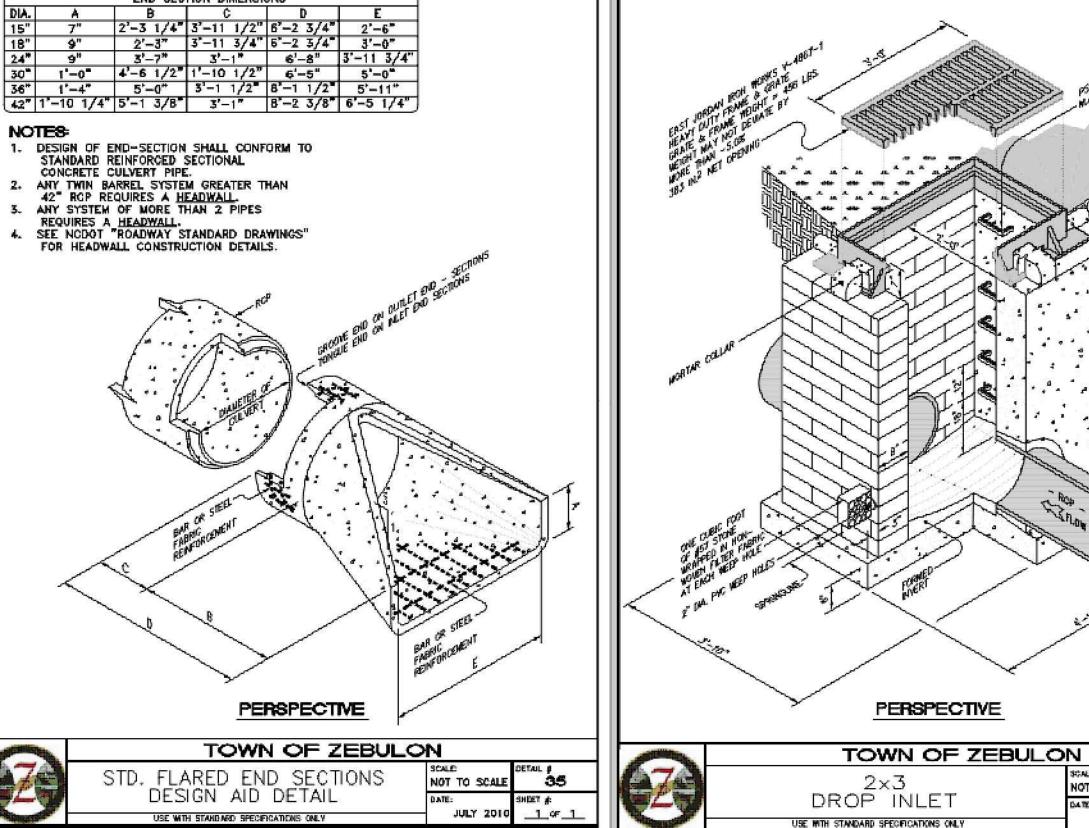


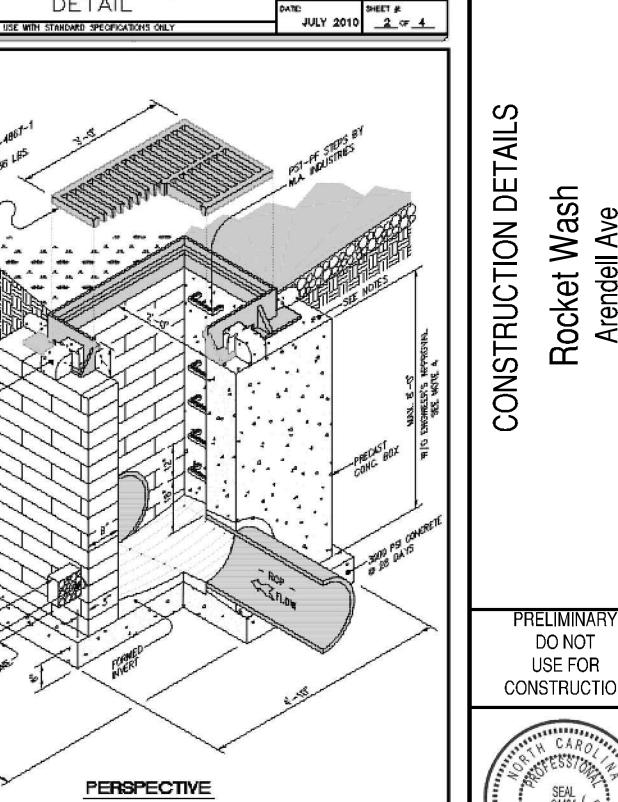






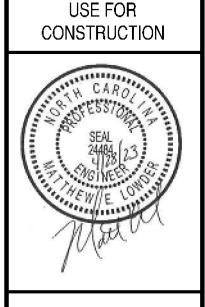






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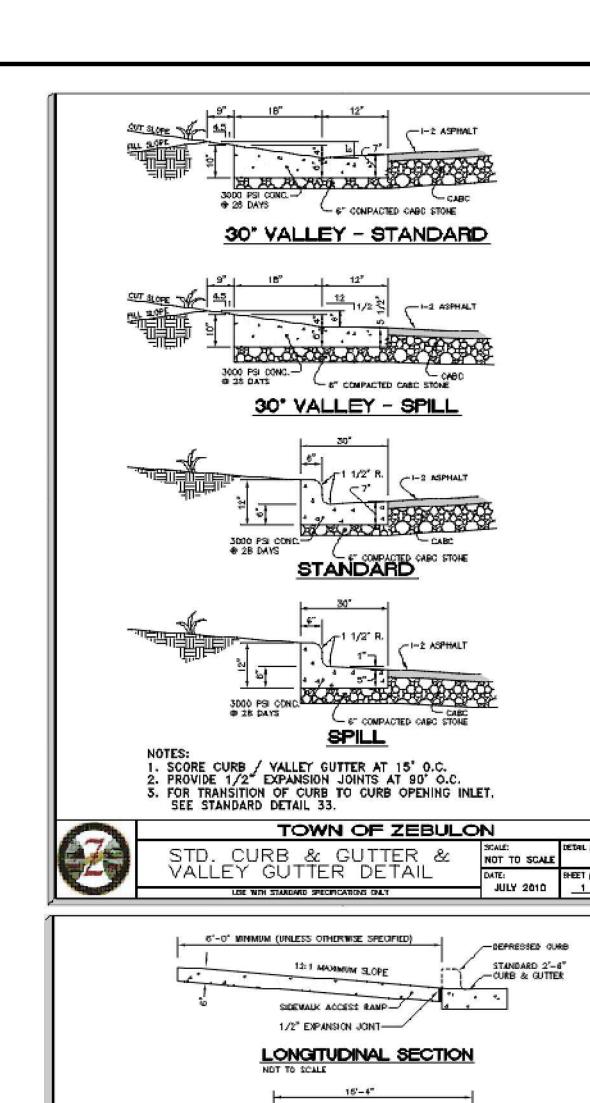
JULY 2010 __1_of_1



PLAN STATUS

Rocket

6/20/22	SITE PLAN	SUBMITTAL
10/21/22	PER TOWN	REVIEW
4/28/23	PER TOWN	REVIEW
DATE	DESCRIP	TION
MEL	MEL	XXX
DESIGN	DRAWN	CHKD
SCALE	H: 1" = 40 V: 1" = XX	· (Χ '
JOB No.	220094-0 220097-0	
DATE	June 20,	
FILE No.	220094-1 220097-1	
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

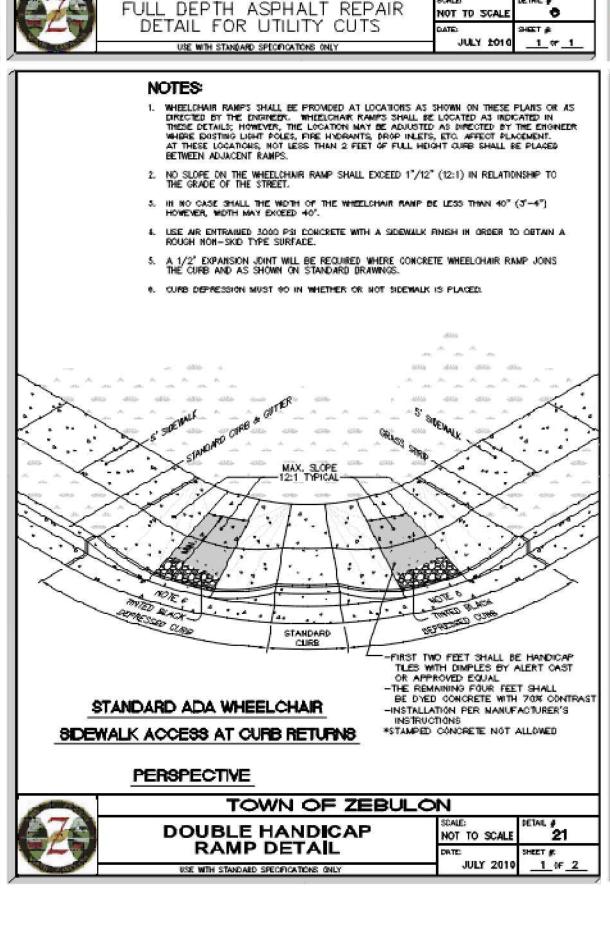
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SHEET #

-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

57 STONE OR FLOWABLE (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

3. COMPACTION TEST MAY BE REQUIRED AT REQUEST OF INSPECTOR.
4. ALL EXISTING PAVED STREETS AND SECONDARY ROADS WHICH ARE OPEN CUT TO

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

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

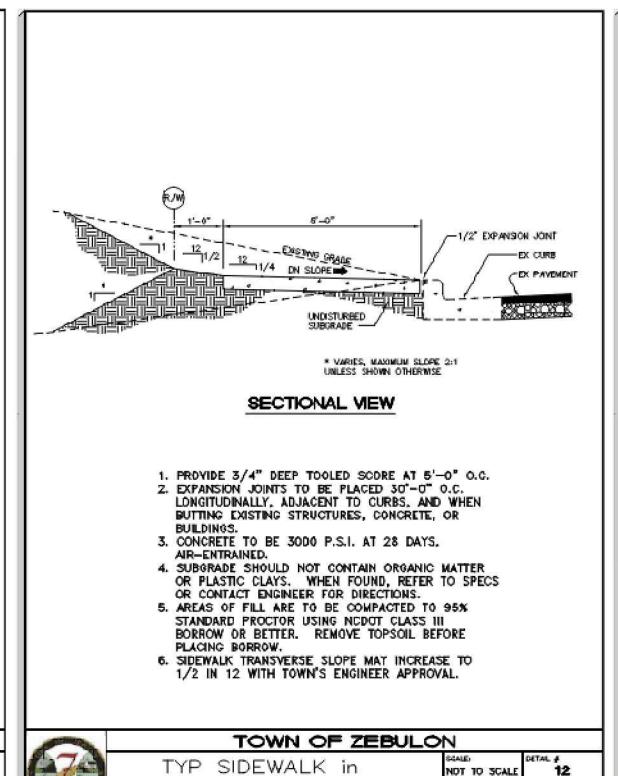
TRENCH IS TO BE BACK FILLED IN 6" LIFTS AND COMPACTED TO 98% STANDARD

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

FIBER OPTIC & GAS: #57 STONE OR FLOWABLE FILL CONCRETE (MINIMUM 50 PSI)

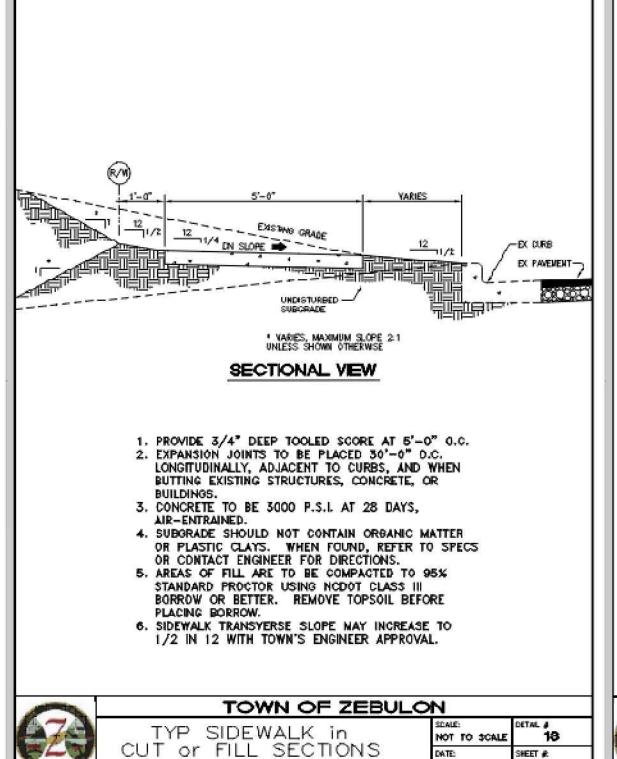
PARAGRAPH 5B OF SPECS) FILL OVER TOP OF FIBER OPTIC CABLE OR GAS PIPE.

TOWN OF ZEBULON



DOUBLE HANDICAP

RAMP DETAIL



HANDICAP PARKING

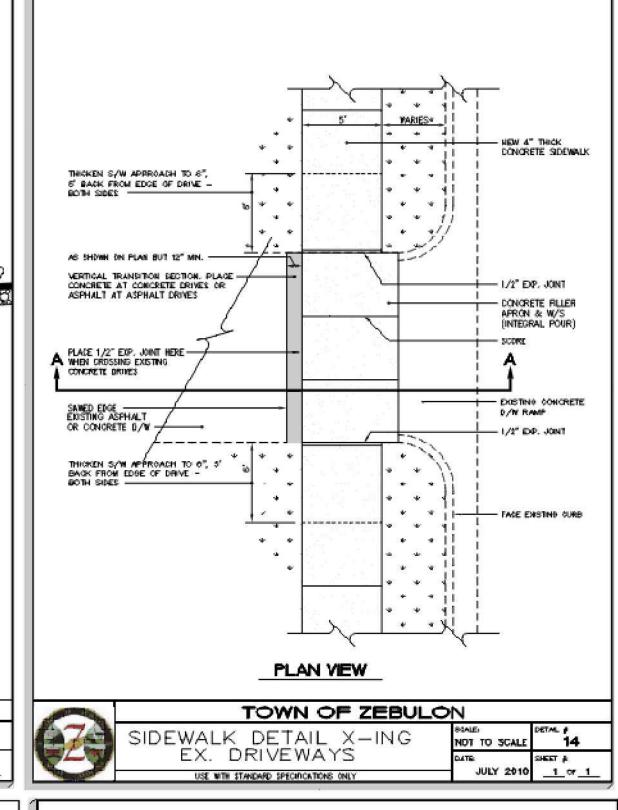
STALL DETAIL *

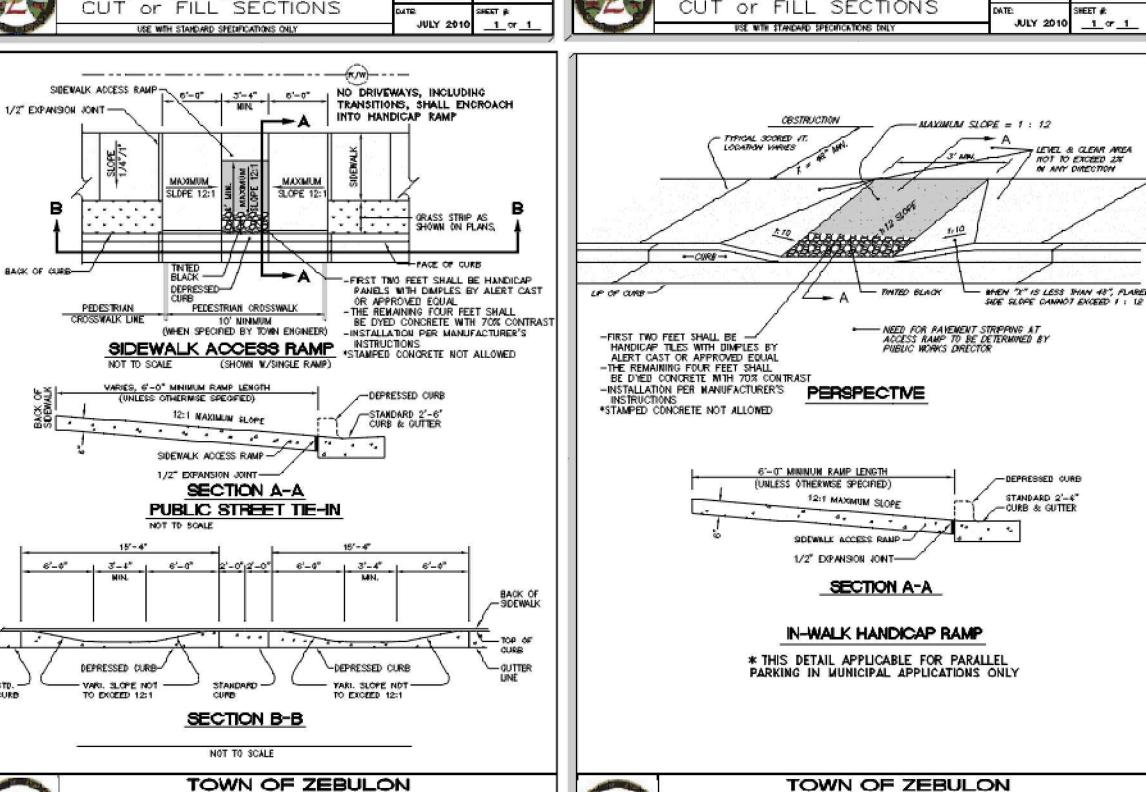
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JULY 2010

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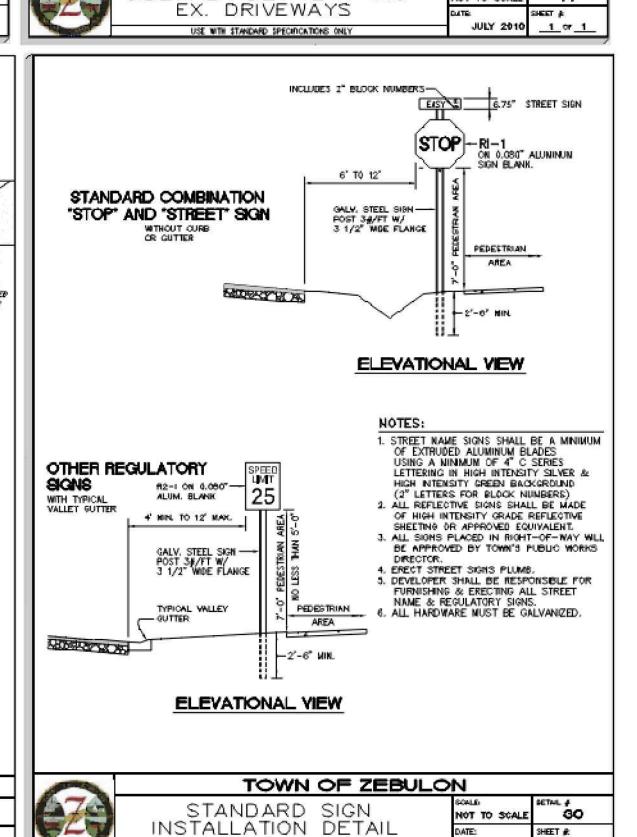
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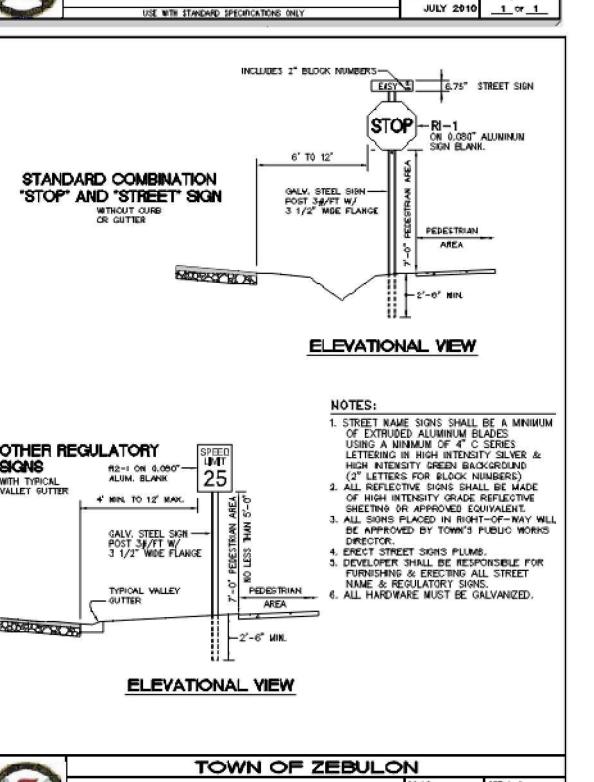




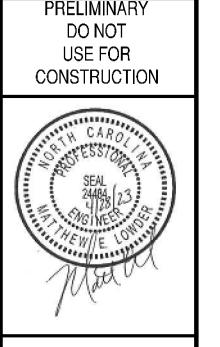
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SHEET #





JULY 2010



PLAN STATUS 0/22|SITE PLAN SUBMIT 0/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL MEL DESIGN | DRAWN | CHKD SCALE V: 1'' = XXX'DATE June 20, 2022 C6.3B

SHEET

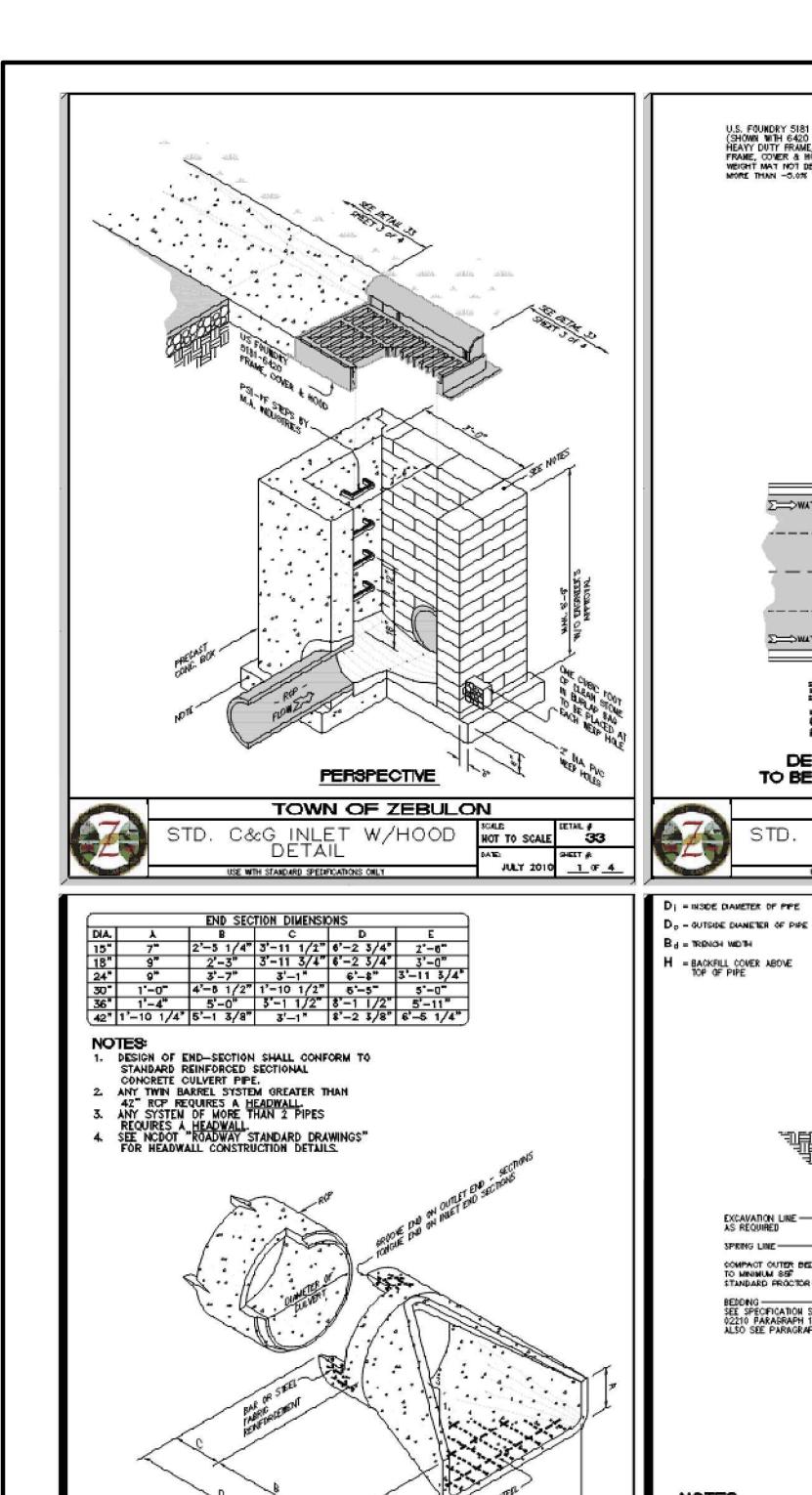
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DETAIL

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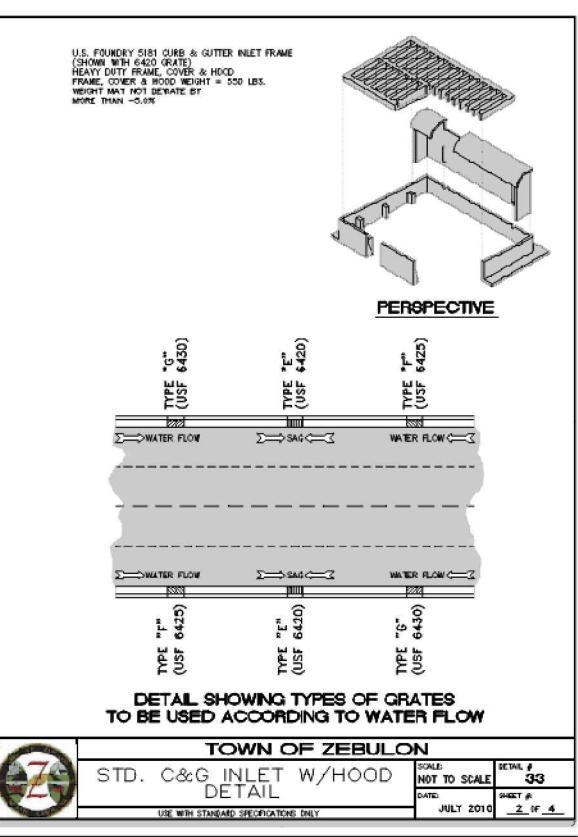
PERSPECTIVE

DESIGN AID DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

TOWN OF ZEBULON

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EXCAVATION LINE -AS REQUIRED

COMPACT OUTER BEDDING TO MINIMUM 88F STANDARD PROCTOR———

SEE SPECIFICATION SECTION 02210 PARAGRAPH 13. ALSO SEE PARAGRAPH 3A

BEDDING, TYPE 4 LAYING CONDITIONS.

APPROVAL UP TO 48" PIPE.

SECTIONAL VIEW

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.

TOWN OF ZEBULON

2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE

TRENCH INSTALLATION

3. MININUM COYER NOT SHOWN BUT NO LESS THAN 12" W/O ENGINEERS

FOR CONCRETE PIPE (FOR CONTRACTOR'S USE)

USE WITH STANDARD SPECIFICATIONS ONLY

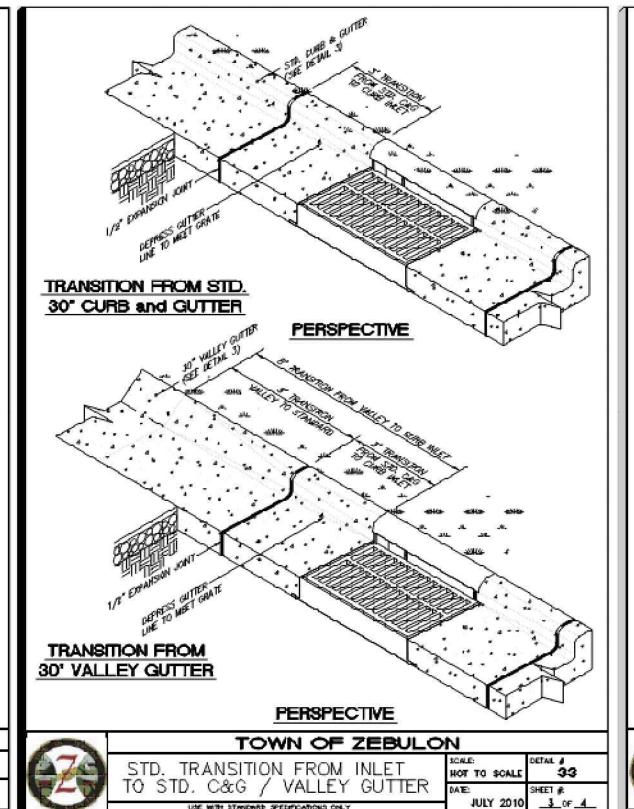
SPRING LINE -

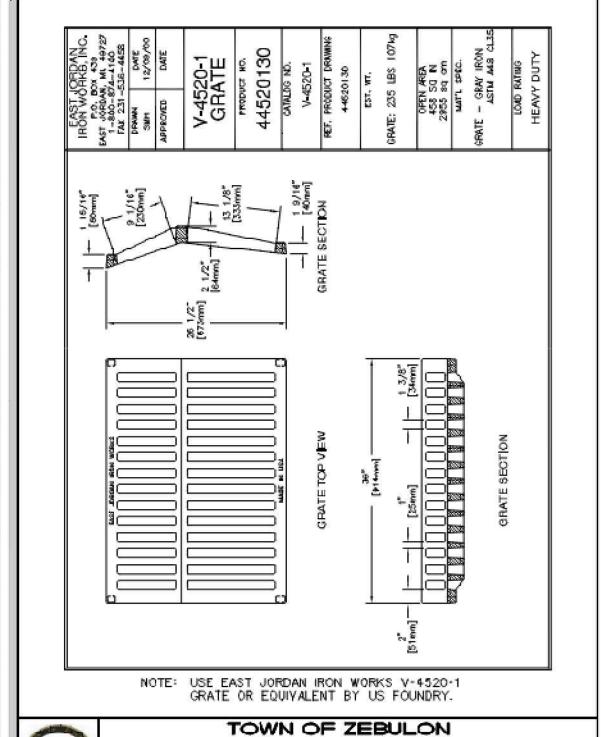
PIPE MAX. MAX. BURY MAX. BURY

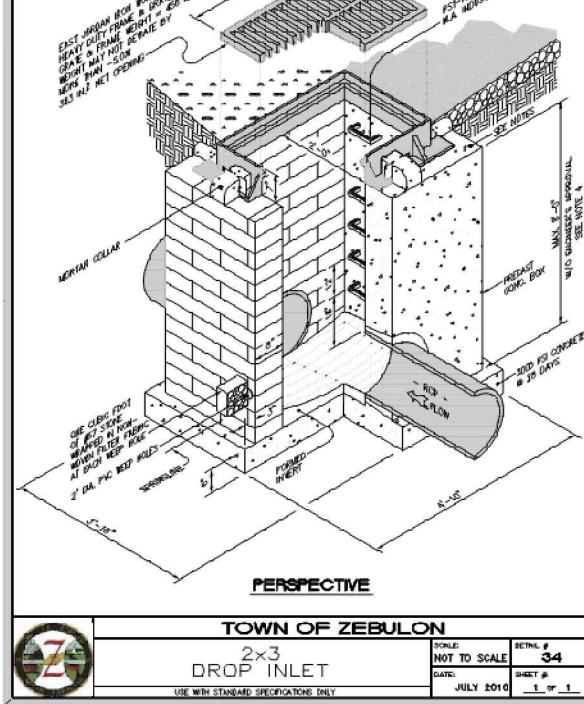
THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING

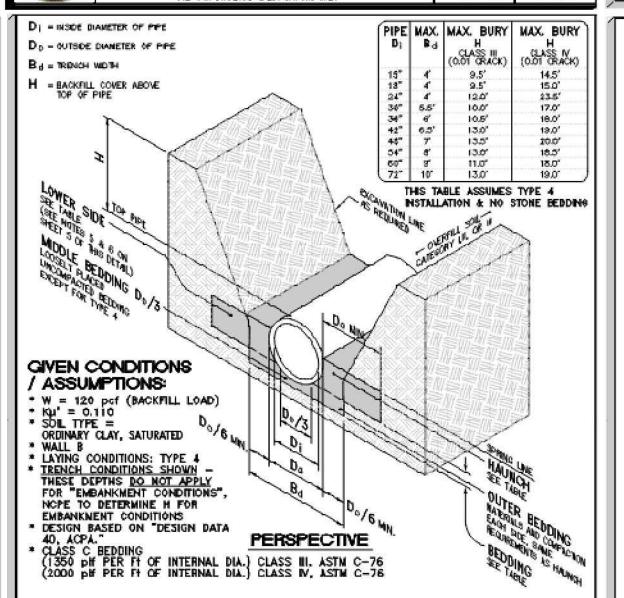
(O.STASSLIV)

14.5' 15.0' 23.5' 17.0' 18.0' 19.0' 20.4' 18.5' 18.0' 19.0'









FOR CONCRETE PIPE (FOR ENGINEER'S USE)
USE WITH STANDARD SPECIFICATIONS DNLY

	Representative Soll Types		Percent Compaction	
300 3ot	uscs,	ARSHTO	Standard Proctor	Modified Proctor
Gravelly Sand (Cartegory I)	SW, SP, GW, GP	AI,A3	100 35 30 65 60 61	95 90 80 80 76 59
Sandy Sat (Collegery I)	GM, 3M, ML Asso GC, 5C with less than 26% passing #200 sleve	A2,44	100 35 80 85 80 49	\$5 \$0 65 60 75
Sity Clay (Gategory II)	Q., MH QC, SC	A5,46	100 95 90 85 80 45	90 65 80 75 70 40
	ОН		100 95 90 45	90 85 80 40

DETAIL FOR STORM DRAIN

JULY 2010

WITH DRIVEWAY CONFLICT

	Compaction Requiren	ients	
lestaliation Type ⁴	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Туре I	$D_0/24$ minimum, sot less than 75 mm (5°), if rock foundation, less $D_0/12$ minimum, not less than 150 mm (8°).	SEX Category I	90% Category I, 90% Category II, or 100% Category III
Type 2	$D_0/24$ minimum, not let than 73 mm (37), if rock foundation, use $D_0/12$ minimum, not less than 150 mm (\$7).	90% Category I or 93% Categiry I	85% Category I, 90% Category II, or 96% Category II
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	85% Category I, 95% Category II, or 95% Category II
Type +	$D_0/14$ 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 Cutegory III, use BSM Cutegory III	No compaction required, except t Category II, use 65% Category III

ı	4
ı	Notes:

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. Subtrenches 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. 3.2 The minimum width of a subtrench shall be 1.33 Do or wider if required for adequate space to attain the specified compaction in the haunch and bedding

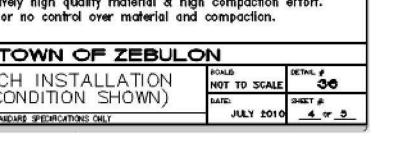
the subtrench wall shall be at least as firm as an equivalent soil placed to the compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or shall be removed and replaced with soil compacted to the specified level.

3.3 For subtrenches with wall of natural soil, any portion of the lower side zone in

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

	TOWN OF ZEBUL	ON	N2
7	STD. TRENCH INSTALLATION	NOT TO SCALE	SETAL #
C	(TRENCH CONDITION SHOWN) USE WITH STANDARD SPECIFICATIONS CHLY	JULY 2010	SHEET &

NARROWING IMPROVING DEPTHS THE BURY THAT WHICH IT IS 2. THIS TABLE BEDDING, T 3. MINIMUM CO	EPTHS ARE ACHIEVABLE BY EITHER CONTROLLING BACKT TRENCH WIDTH BUT SUPPLY SUFFICIENT ROOM FOR CO BEDDING OR LOADING TO ULTIMATE LOAD (Du). FOR O AN SHOWN (H), NORTH CAROLINA PE TO PROVIDE CALC EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDI S PROPOSED TO BE USED. OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS YPE 4. LAYING CONDITIONS DVER NOT SHOWN JRY TABLE FOR "TRENCH CONDITIONS" PER THE DETAIL S	DIMPACTION, DTHER BURY IS ON PIPE FIONS IN C STONE			
	TOWN OF ZEBUL	ON		TOWN OF ZEBULO	NC
A7	STD. TRENCH INSTALLATION FOR CONCRETE PIPE	NOT TO SCALE 36	278	STD. TRENCH INSTALLATION	SCALE: DETAL #
	(FOR ENGINEER'S USE) USE WITH STANDARD SPECIFICATIONS DNLY	DATE: SHEET # JULY 2010 or _5		(TRENCH CONDITION SHOWN) USE WITH STANDARD SPEDIFICATIONS ONLY	JULY 2010 SHEET #:



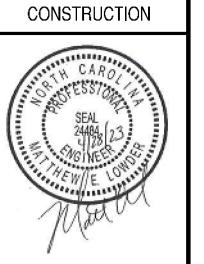
Wash Rocket Arende Project ID#

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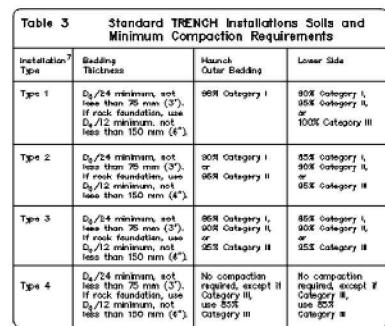
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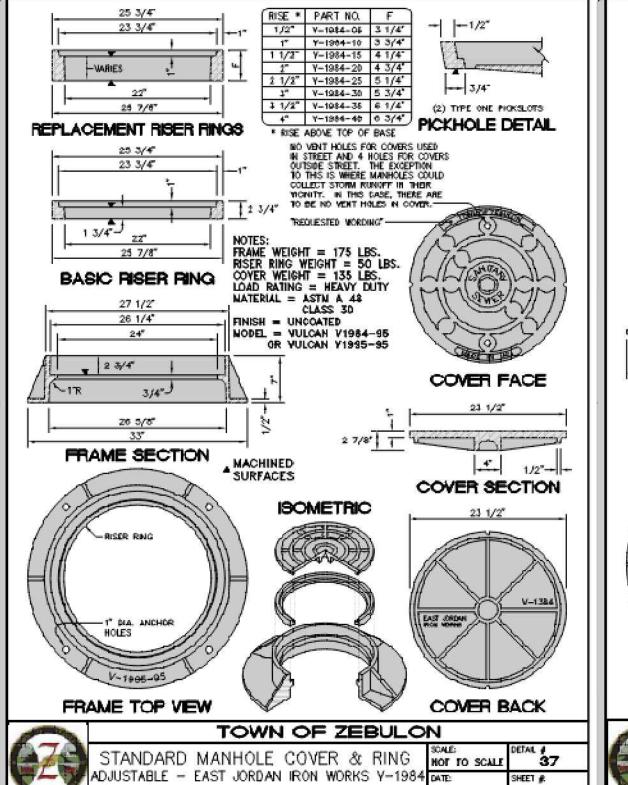


PLAN STATUS				
	SITE PLAN			
	PER TOWN			
4/28/23	PER TOWN	REVIEW		
	2500015	T1011		
DATE	DESCRIP	TION		
MEL	MEL	XXX		
DESIGN	DRAWN	CHKD		
SCALE	H: 1" = 40 V: 1" = XX	(Χ '		
JOB No.	220094-1 220097-1			
DATE	June 20,			
FILE No.	220094-1 220097-1	01-002 01-002		
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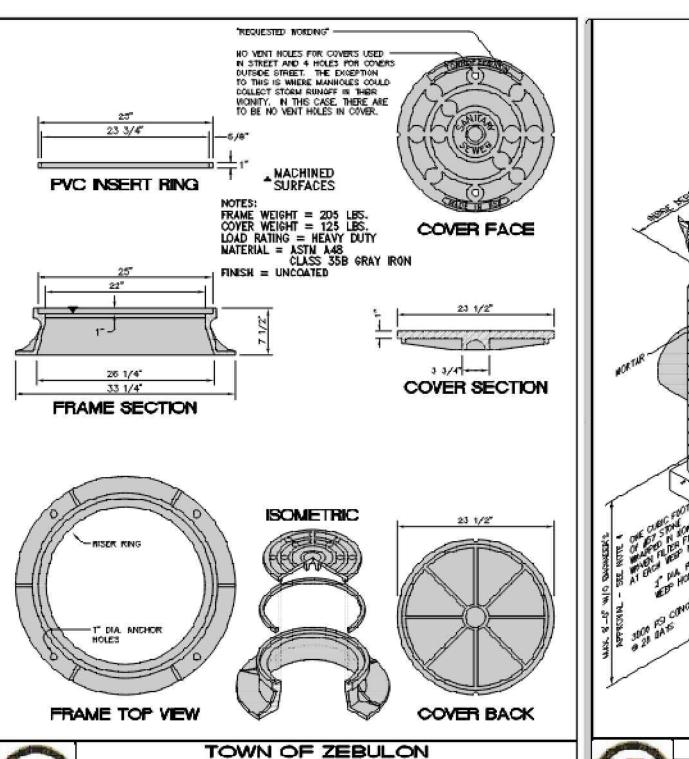


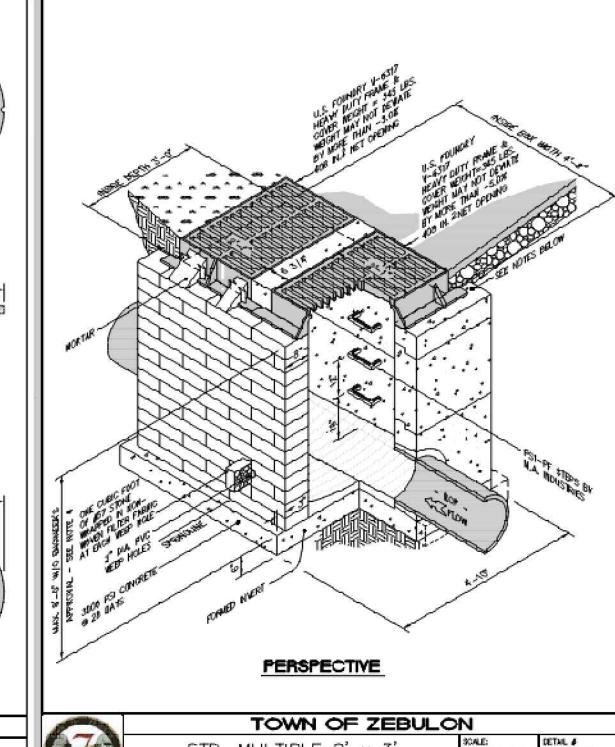
- 1. Compaction and soils symbols i.e. "98% Category I" materials with minimum standard Proctor compaction equivalent modified Proofer values.
- for roadways, its top shall be no lower than an elevat the bottom of the pavement base material. 3. Soil in bedding and haunch zones shall be compacted
- compaction 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 be-5. For trench walls that are within 10 degrees of vertical,
- of the soil in the trench walls and lower side zone ne 6. For trench walls with greater than 10 degrees slopes 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

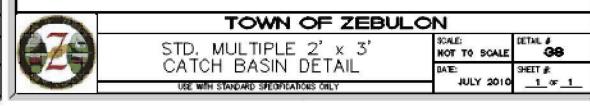
	Table 3		NCH Installation paction Requir					DETAL 37 SHEETS 2 & 3	
	inetellation ⁷ Type	Bedding Thickness	Haunch Outer Bedding	Lower Side			₹4.		
	Туро 1	$\Omega_b/24$ minimum, not less than 75 man (3"). If rack foundation, use $\Omega_b/12$ minimum, not less than 150 mm (6").	98% Category I	90% Category I, 95% Category II, ar 100% Category III			M a S Or OF		
	Туре 2	$D_{ij}/24$ minimum, not hear them 75 mm (3°). If rook foundation, we $D_{ij}/12$ minimum, not less than 150 mm (4°).	90% Category I or 95% Category II	65% Category I, 90% Category II, or 95% Category III					
	Туро З	D ₆ /24 minimum, set tees than 15 man (3°). If rook foundation, use D ₆ /12 minimum, not less than 150 mm (6°).	959 Category I, 90% Category II, or 95% Category II	85% Category I, 90% Category II, or 95% Category II				24 04	
	Туре 4	$D_4/24$ minimum, sot, less than 75 mm (3"). If rock foundation, use $D_4/12$ minimum, not ress than 150 mm (4").	No compaction required, except if Category III, use 85% Category III	No composition required, except if Category III, use 85% Category III			3.5		
materials equivalent 2. The trench for roadw the betton 3. Soil in bed compactic 4. The trench attain the 5. For trench of the soi 6. For trench the lower for the st 7. Type 1 in	with minimal modified in the elevation of the public ding and in as specified walls that it in the transition in the bastallation is stallation in the bastallation in the bastallation is stallation.	symbols - 1.e. "9: num standard Proctor proctor values. ion shall be no lower avement base maler haunch zones shall il be wider than sh compaction in the h are within 10 degrench walls and lowe greater than 10 de be compacted to a ackfill zone. Ittle or no control	er compaction of than an elevatrial. be compacted y of soil in the own if required rounch and becomes of vertical, ar side zone new ality material & lover material	of 98%. See To below finished g ion of 0.3 m (i to at least the backfill zone. for adequate s iding zone. the compaction ed not be consist of compaction a high compaction and compaction	ble 1 for rade or, below same pace to or firmness dered. mbankment, s specified	SHE		PERSPECTIVE	SERVICE SERVIC
673	CTD 7	CONTRACTOR STREET CONTRACTOR IN CONTRACTOR STREET	OF ZEBU	, SONE:	SETNL #	67	75 200	TOWN OF ZEBUL	SCALE: DETAIL #
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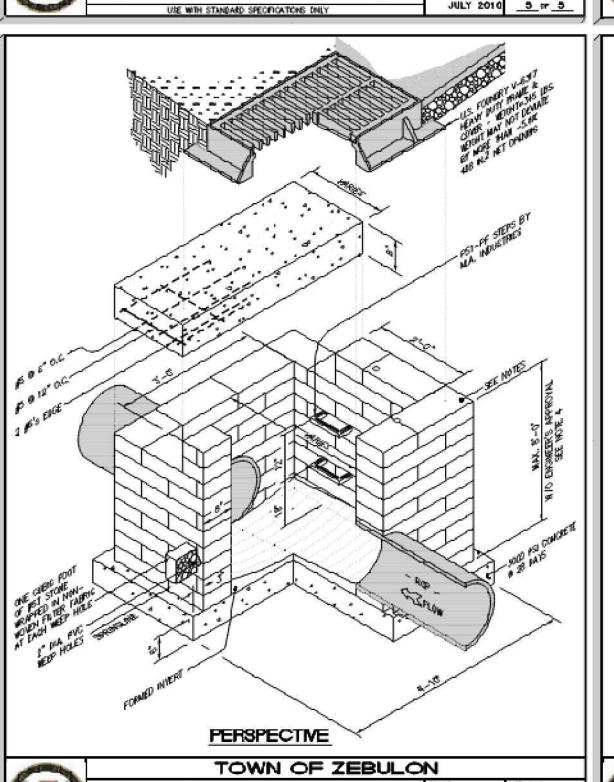


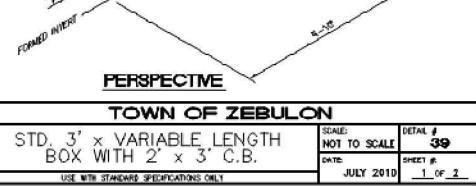
JULY 2010

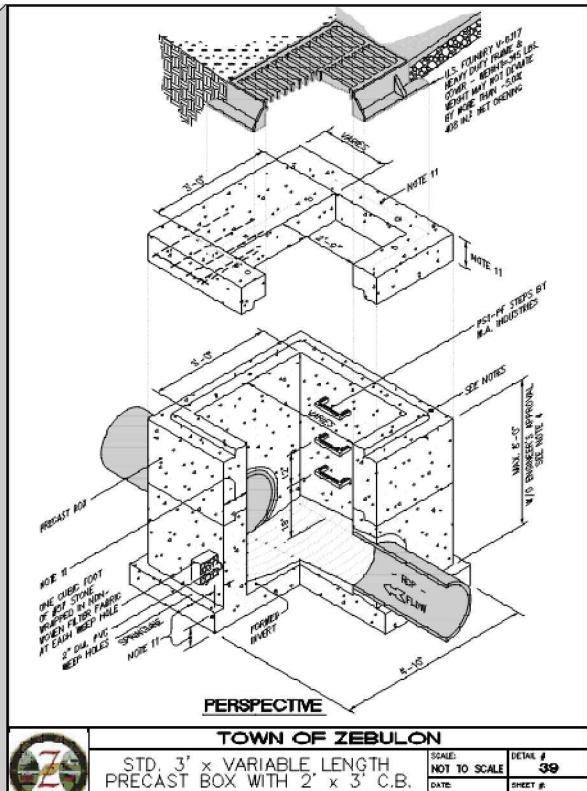




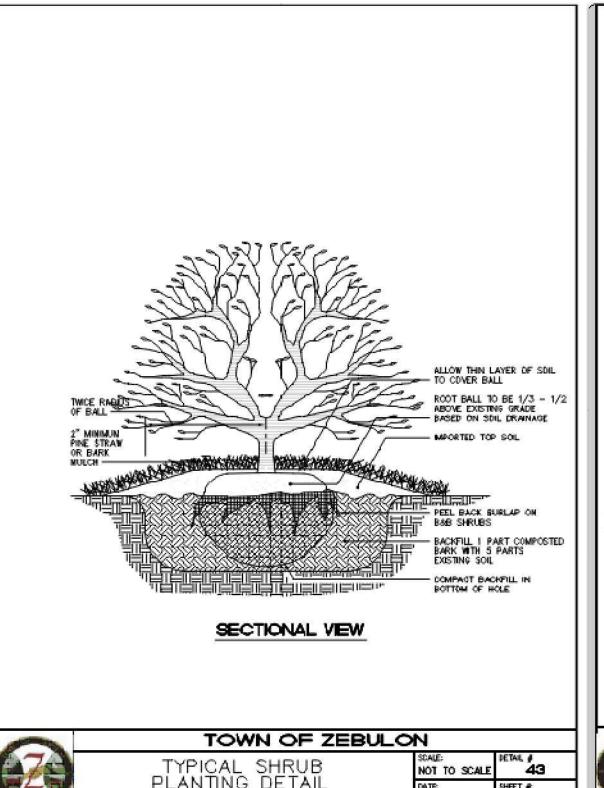


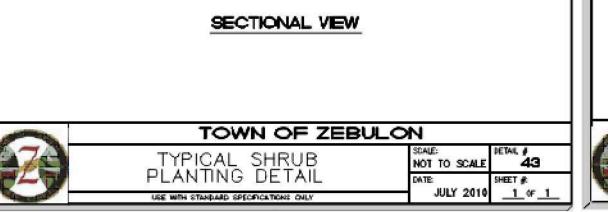


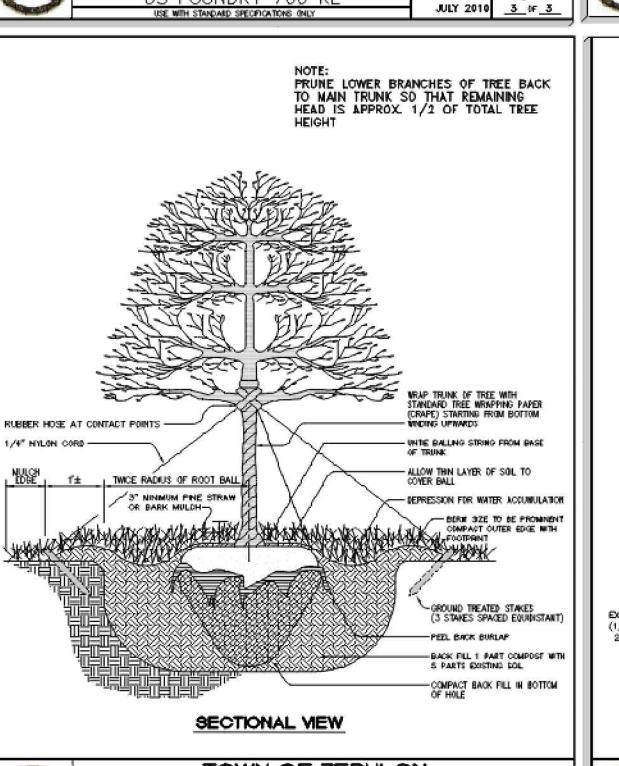




USE WITH STANDARD SPEDIFICATIONS ONLY



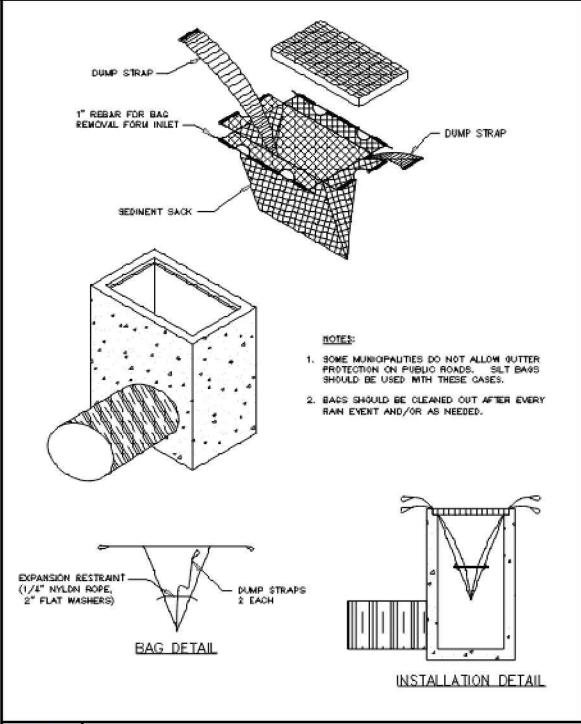




TANDARD MANHOLE & RING

US FOUNDRY 700 KI

174	TYPICAL TREE STAKING	NOT TO SCALE	DETAIL #
	and PLANTING DETAIL	BATE:	SHEET &
	USE WITH STANDARD SPEOFICATIONS ONLY	JULY 2010	0F1_



A STATE OF THE PARTY OF THE PAR	TOWN OF ZEBULC	N	
A7A	CATCH BASIN - SEDIMENT	SCALE: NOT TO SCALE	SETAL #
6-3	CONTROL DEVICES	DATE: JULY 2010	SHEET A
William Co.	USE WITH STANDARD SPECIFICATIONS ONLY	30E1 2010	

Wash Rocket
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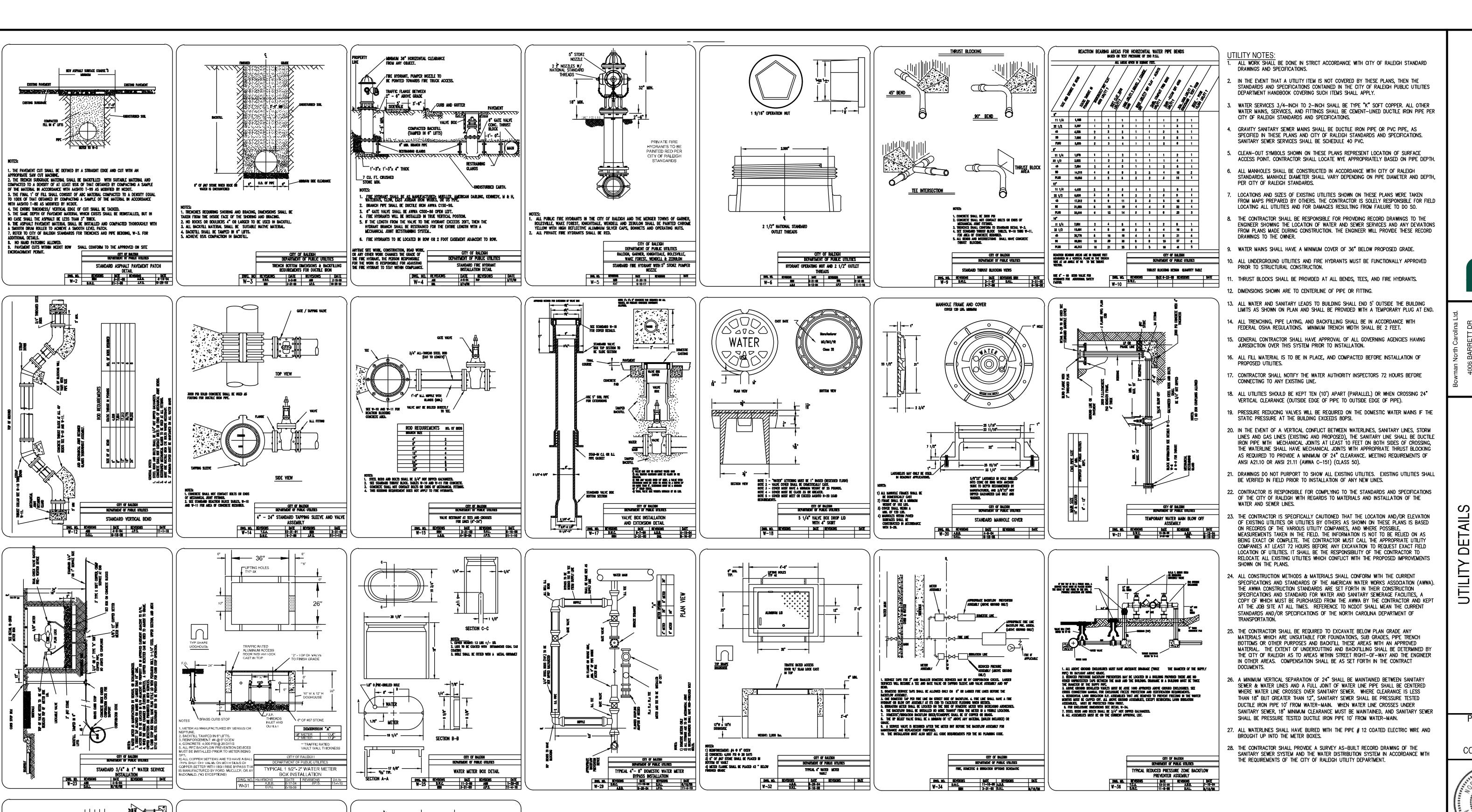
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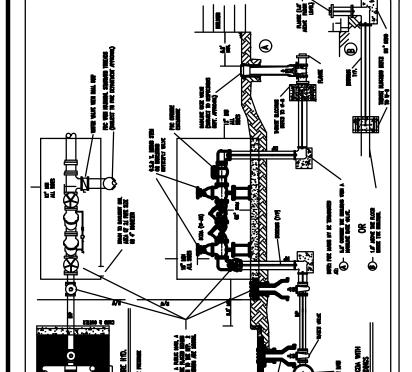
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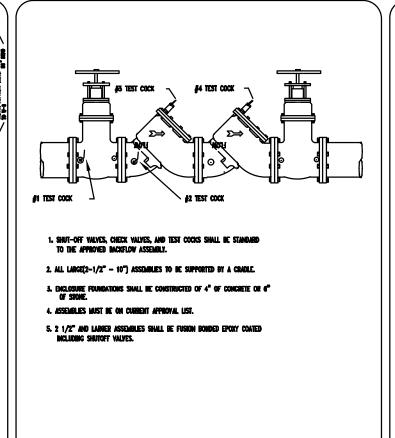
PLAN STATUS 20/22|SITE PLAN SUBMITT 0/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL DESIGN | DRAWN | CHKD SCALE $V: \underline{1'' = XXX'}$ DATE June 20, 2022 C6.3D

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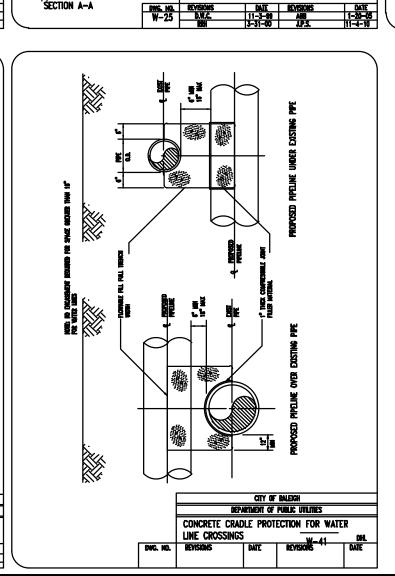




YPICAL FIRE MAIN DOUBLE DETECTOR CHECK



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PUBLIC Water Distribution/Extension System

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

City of Raleigh
Public Utilities Department Permit # W
Authorization to Construct See digital signature

PUBLIC Sewer Collection/Extension System City of Raleigh consents to the connection and extension of the City's public sewer syst

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

City of Raleigh
Public Utilities Department Permit # S
Authorization to Construct See digital signature

ATTENTION CONTRACTORS

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

Failure to notify both **City Departments** in advance of beginning construction, will result 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 other Violation of City of Raleigh Standardswill result in a Fine and Possible Exclusion from future work in the City of Raleigh.

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RALEIGH, NC 27609 Phone: (919)553-657(bowman.com

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Rocket Wash Arendell Ave Project ID#796479

lon, NC

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CONSTRUCTION

PLAN STATUS
6/20/22 SITE PLAN SUBMITTAL
10/21/22 PER TOWN REVIEW
4/28/23 PER TOWN REVIEW

DATE DESCRIPTION

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DESIGN DRAWN CHKD

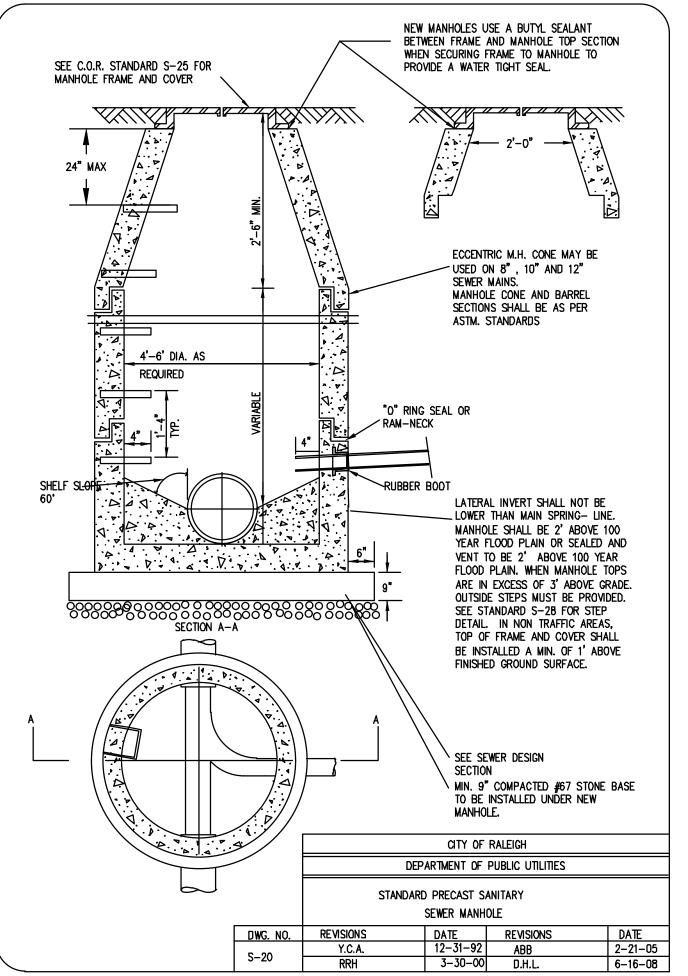
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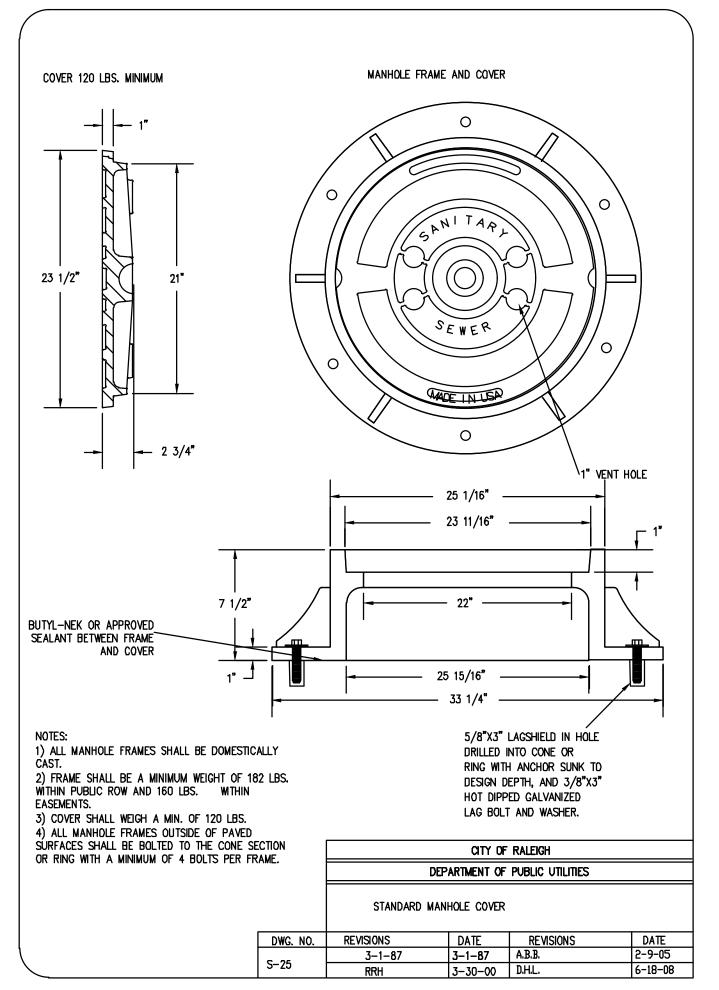
JOB No. 220094-01-002
DATE June 20, 2022

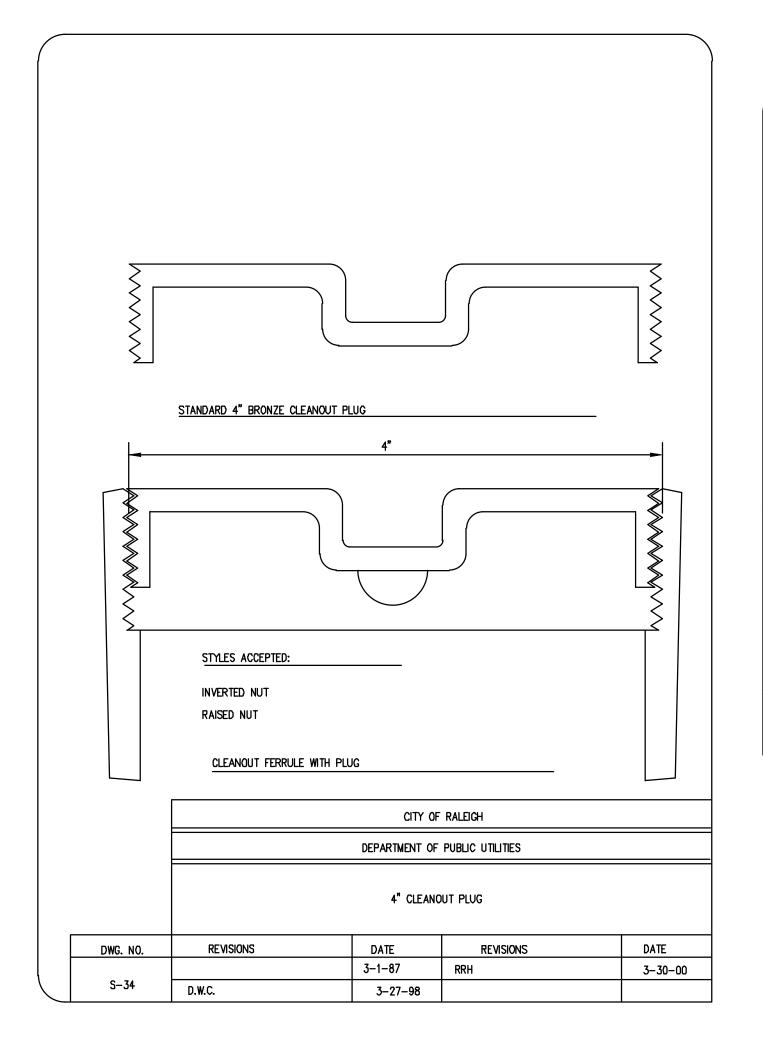
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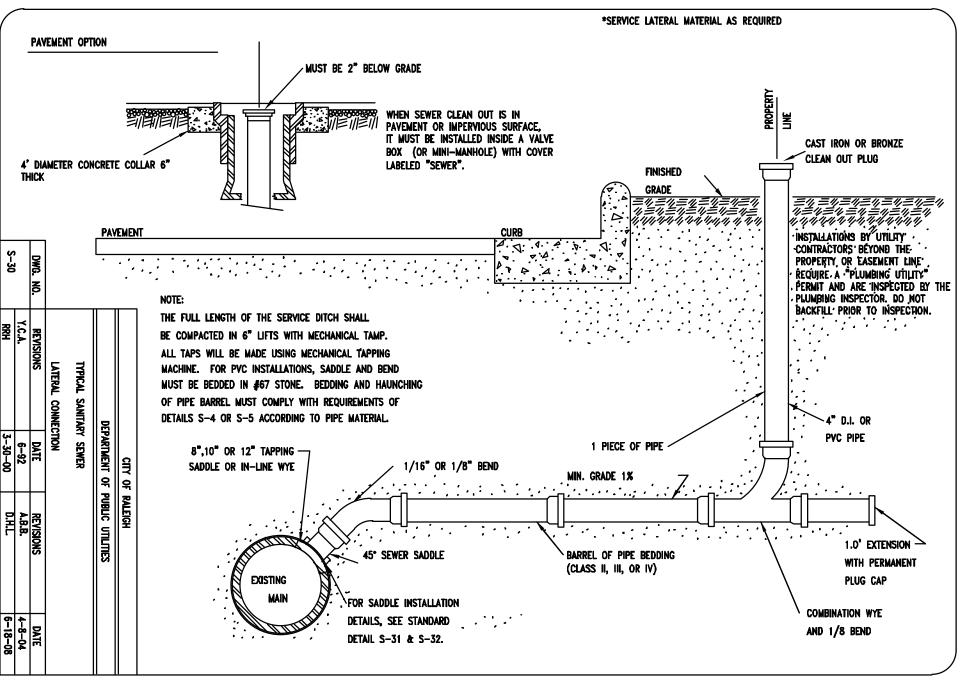
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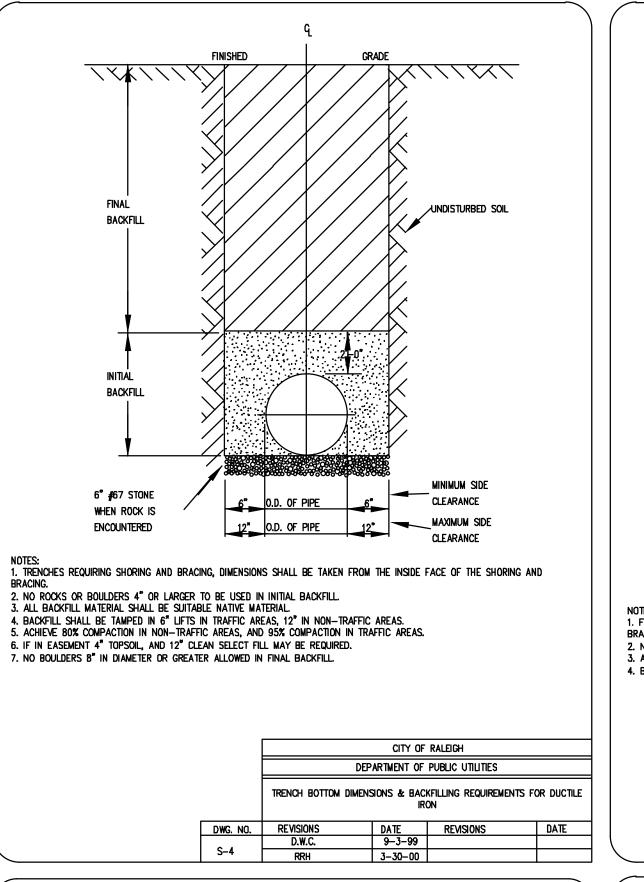
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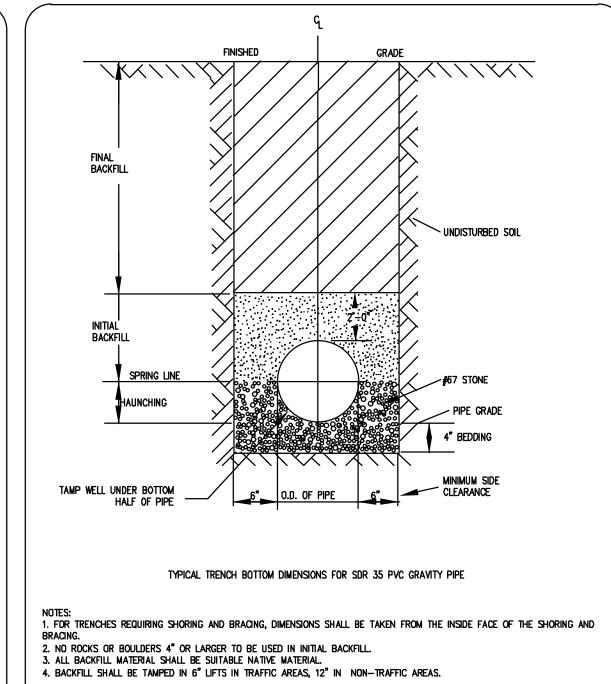










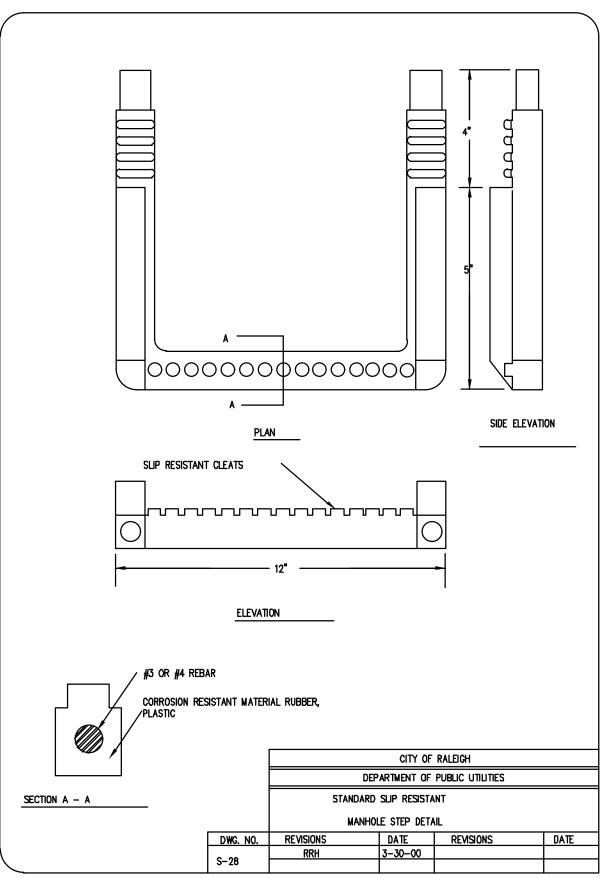


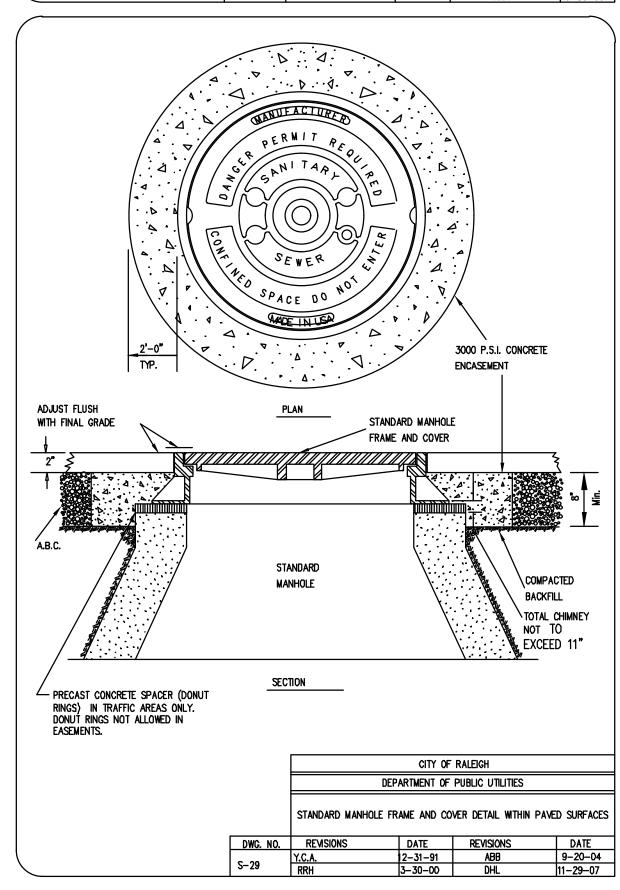
CITY OF RALEIGH

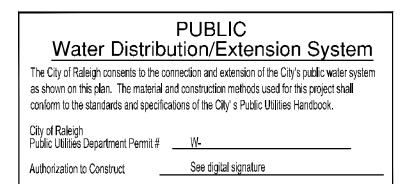
DEPARTMENT OF PUBLIC UTILITIES

TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC

GRAVITY SEWER MAIN







PUBLIC Sewer Collection/Extension System The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh
Public Utilities Department Permit # _____S. See digital signature

Authorization to Construct

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Project ID#

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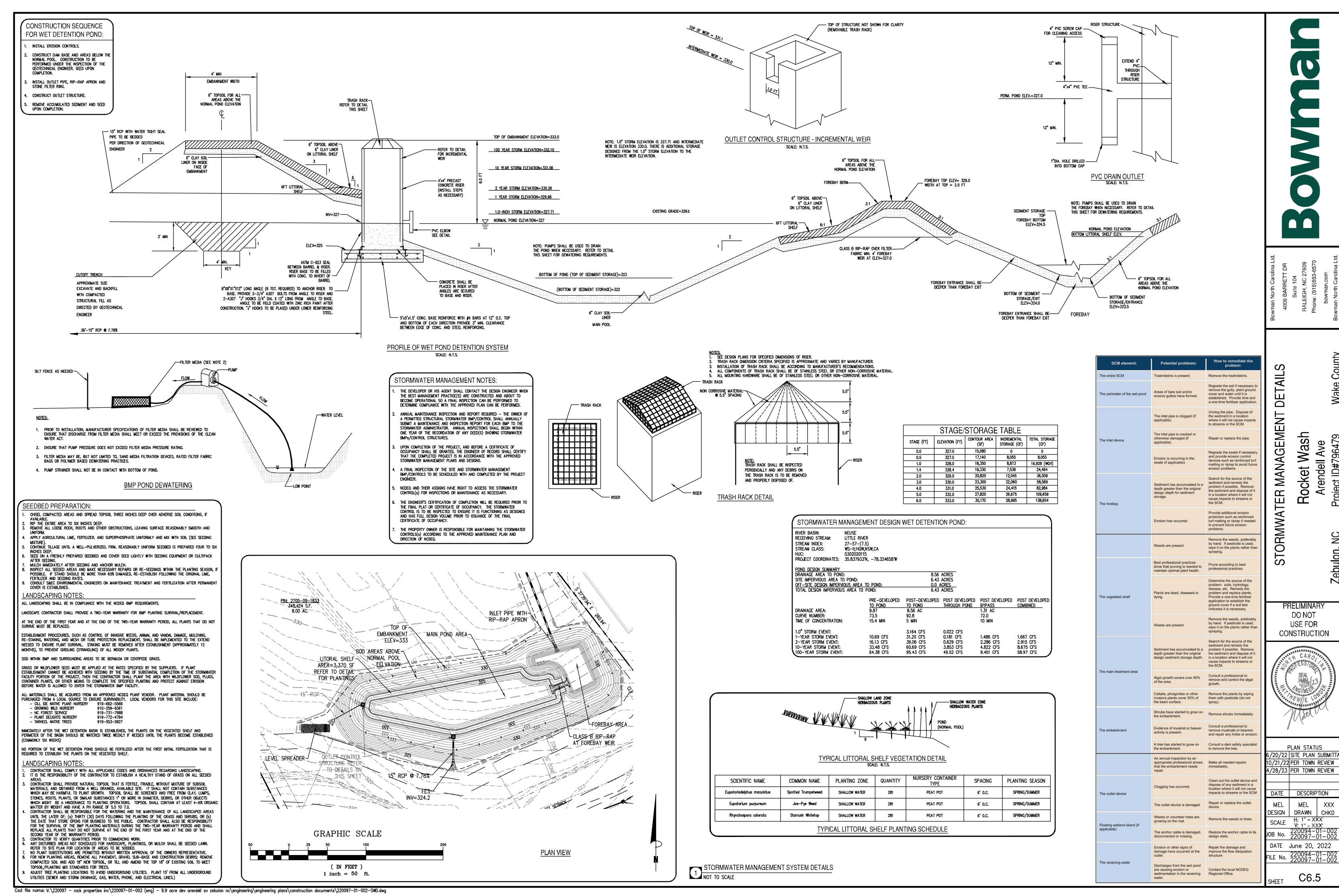
UTILITY

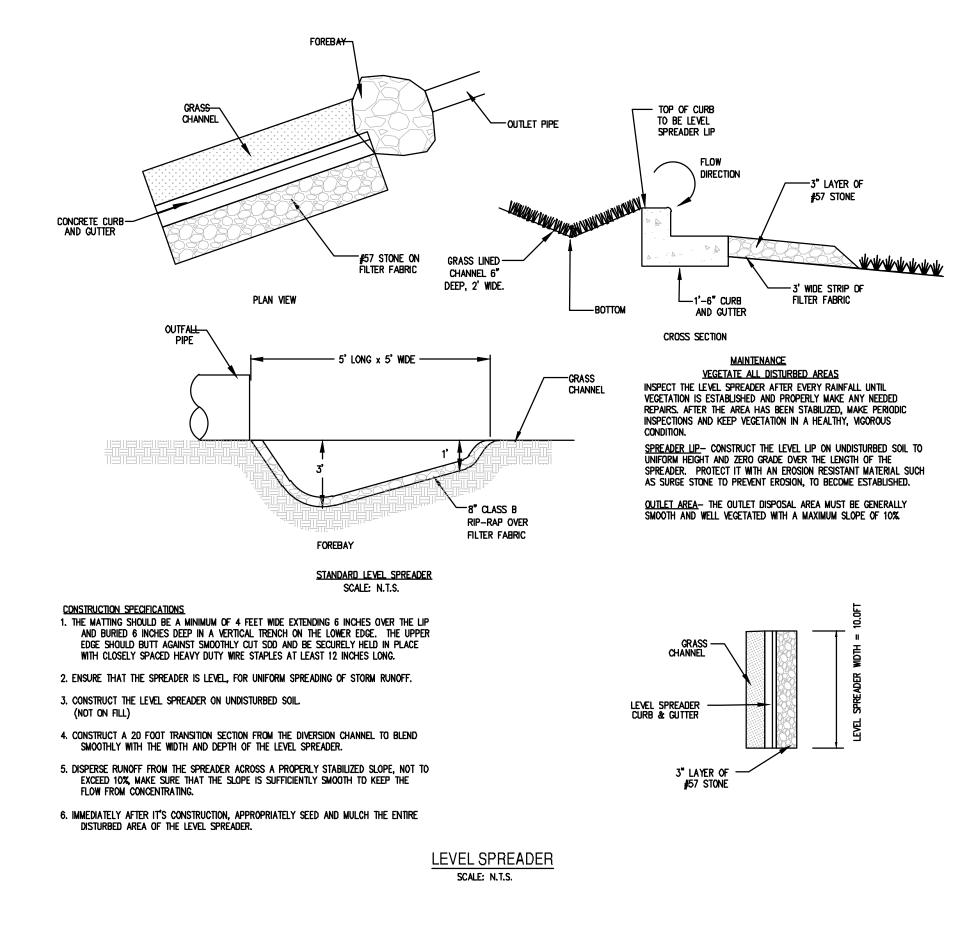
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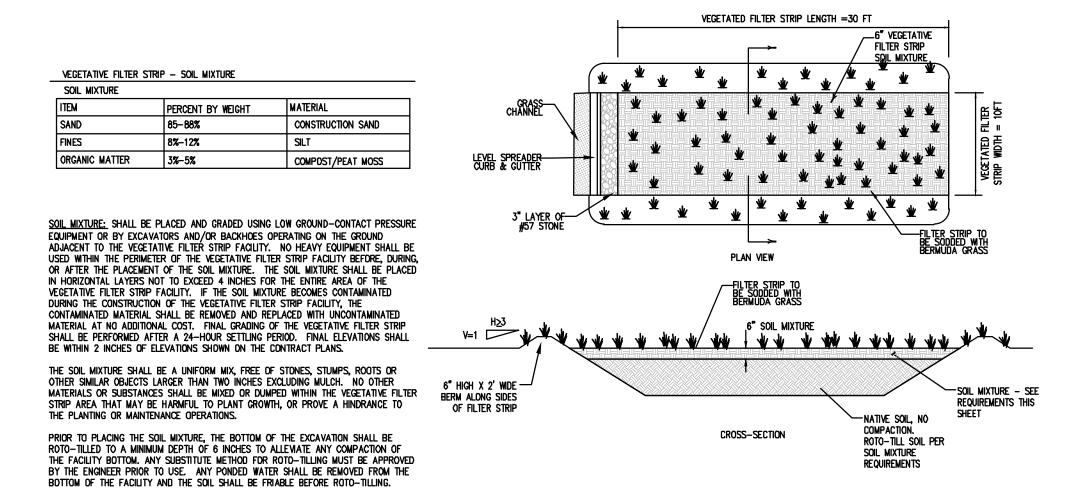
PLAN STATUS)/22|SITE PLAN SUBMITT

0/21/22 PER TOWN REVIEW 4/28/23 PER TOWN REVIEW DATE DESCRIPTION MEL DESIGN DRAWN CHKD SCALE DATE June 20, 2022 C6.4B





GRASS SHALL BE EITHER HYBRID BERMUDA GRASS OR CENTIPEDE



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.

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

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

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

Check SCM inlet pipes for undercutting, replace rip—rap and repair broken pipes.
 Reseed grassed swales, including the vegetated filter if applicable, twice a year as necessary. Repair eroded areas immediately.

where accumulated sediment is noted. 2. Inspect the embankment taking note of any wet areas where water may be seeping through the soil.

. Maximum grass height is to be 6in. 2. No woody vegetation shall be allowed to grow in the bio-retention area.

3. Debris shall be removed from blocking the inlet and outlet structures and from areas 4. Periodic removal of dead vegetation shall be accomplished. 5. All components of the level spreader-filter strip system must be kept in good

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

 I. Inspect the SCM monthly
 Check the level spreader-filter strip area side slopes; remove trash and repair eroded 4. Visually inspect and repair soil erosion on a monthly basis.

diseased trees and shrubs that are not beyond treatment as needed. Quarterly Inspection

1. Remove accumulated sediment from the bottom of the outlet structure or other areas

DETAIL

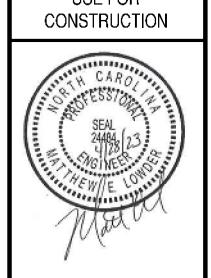
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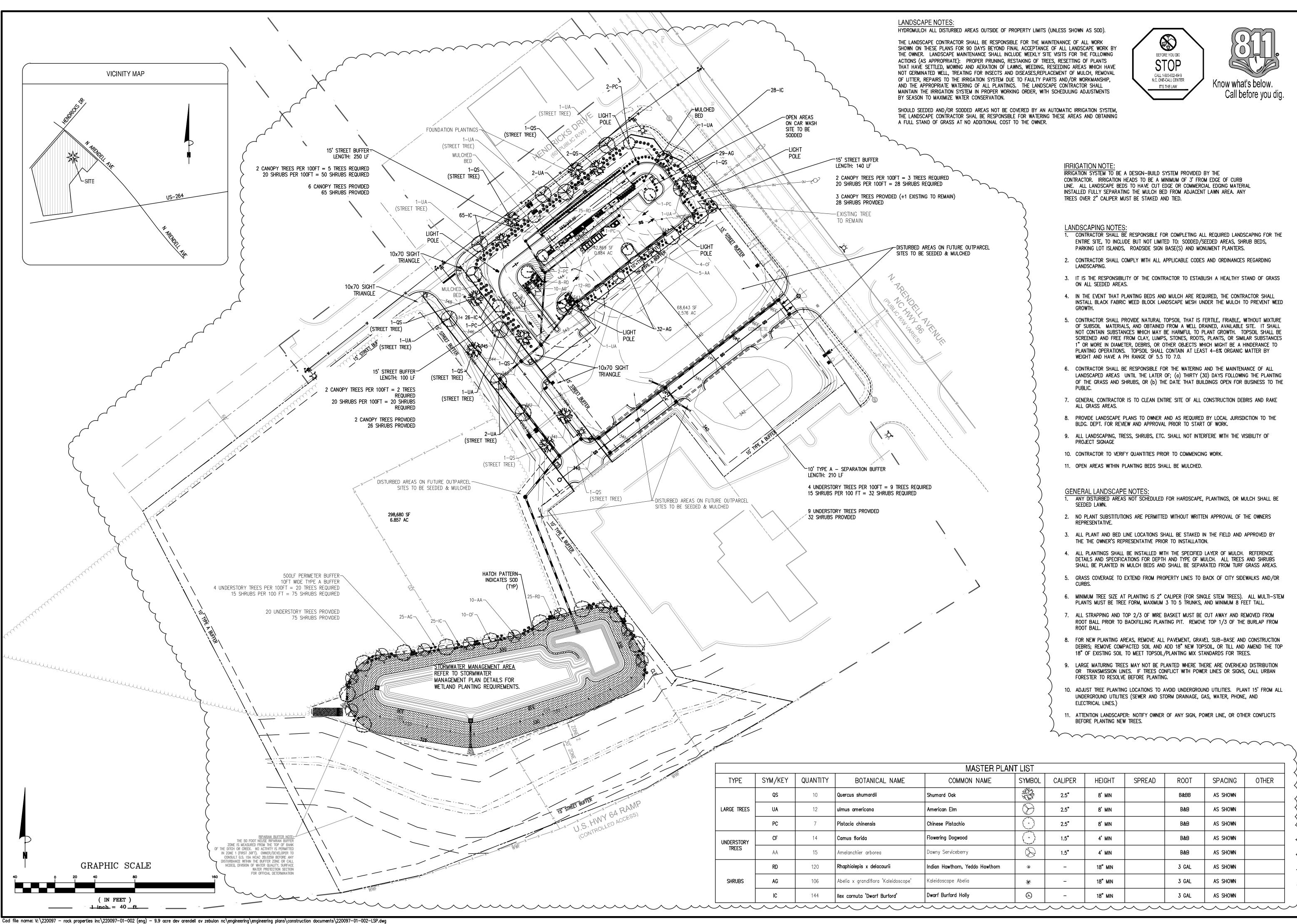
PLAN STATUS

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SHEET

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Phone: (919)553-6570 bowman.com

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Rocket Wash Arendell Ave Project ID#796479

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PLAN STATUS
6/20/22 SITE PLAN SUBMITTAL
10/21/22 PER TOWN REVIEW
4/28/23 PER TOWN REVIEW

DATE DESCRIPTION

MEL MEL XXX
DESIGN DRAWN CHKD

SCALE H:
V:

OB No. 220094-01-002
DATE June 20, 2022

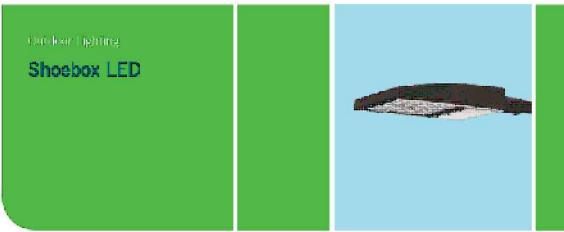
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DUKE ENERGY.

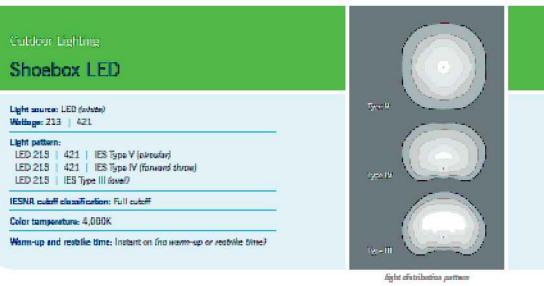


The energy-efficient Shoebox LEO is a green solution and great fit for commercial parking lots, mails, office buildings and streets providing a "white light" that will enhance the appearance of your site. The Shoebox LED delivers light where it is needed, while increasing visibility and reducing spill light to adjoining properties. Selected to be an alternative to the metal halide light forture, t fixture provides a white light source that will enhance colors, adding to visual acuity and improving area uniformity.

ľ	(fight-emitting diode)	213 421 watts
	Reunting height	30FT MAX. MOUNTING HEIGHT
	Color	Dark bronze Black
thia B	Poles	Tenen top concrete Promenede concrete
	Applications	Neighborhoods Roadways Shopping centers

For additional information, visit us at data—anagy.com/OutdoorLighting or call us toll-free at 866.769.6417.

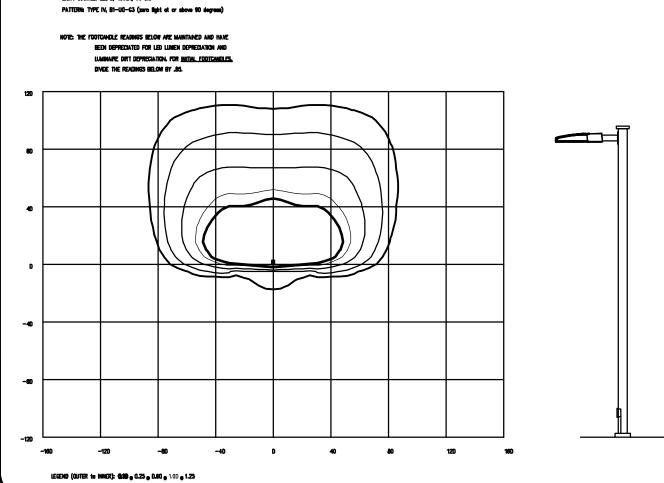


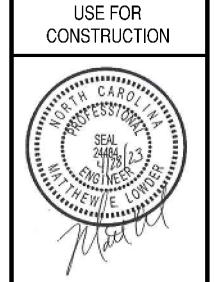


cunting height	
	Color
D'-36'	Gray
JE I MAX. MOUN	ווווט חבוטחו
	Bronze
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Features	Benefits
Little or no Installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance Included	Eliminates high and unexpected repair bills
Electricity included	Less expensive then metered service
Warranty Included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassie-free installiation and service
Backed by over 40 years of experience	A name you can truct today and tomorrow

FIXTURE: LEDZOS, GALLEON MOUNTING HEIGHT: 30 FT MAX LIGHT SOURCE: LED'S, 4000K, 70 CR PATTERIN: TYPE IV, BI-UG-C3 (pare light of or shows 90 degrees) NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND	ASSY# LFX-58X-LED-265-BLX-IV-MULTIVP (BLACK POLE ASSY# LPOLE-AB-51L-30F1-BLX-530P (BLACK BRACKET ASSY# LBXT-3DE-12M-BLX-LBXV-5TLP (B SHELD# LSH-GLARE-58X-LED-205P
ILAMMANE DIRT DEPRECIATION. FOR <u>MITTAL FOOTCAMOLES.</u> DIVIDE THE READINGS BELOW BY J.B.	





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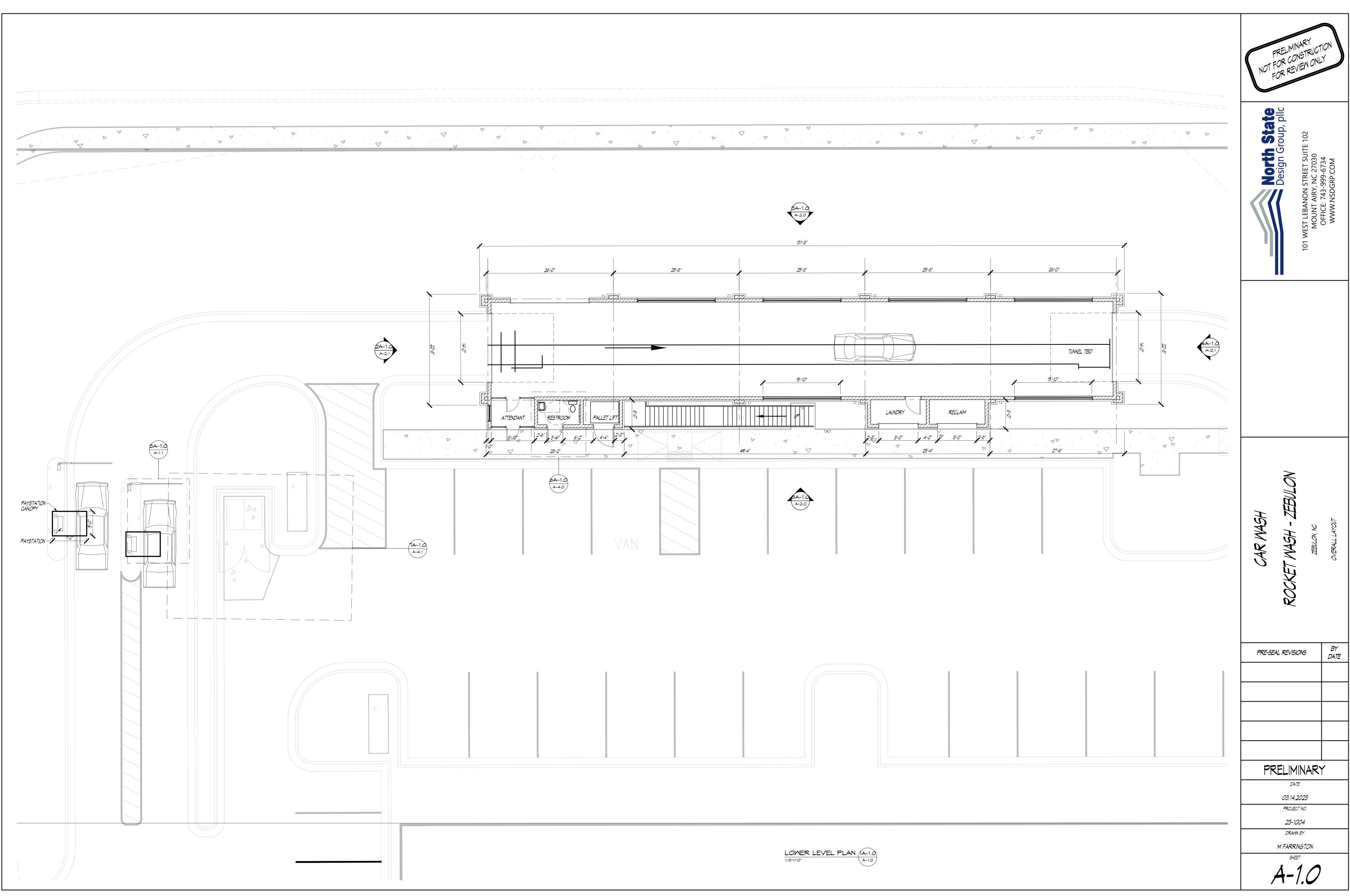
LIGHTING PLAN

Rocket Wash Arendell Ave Project ID#796479

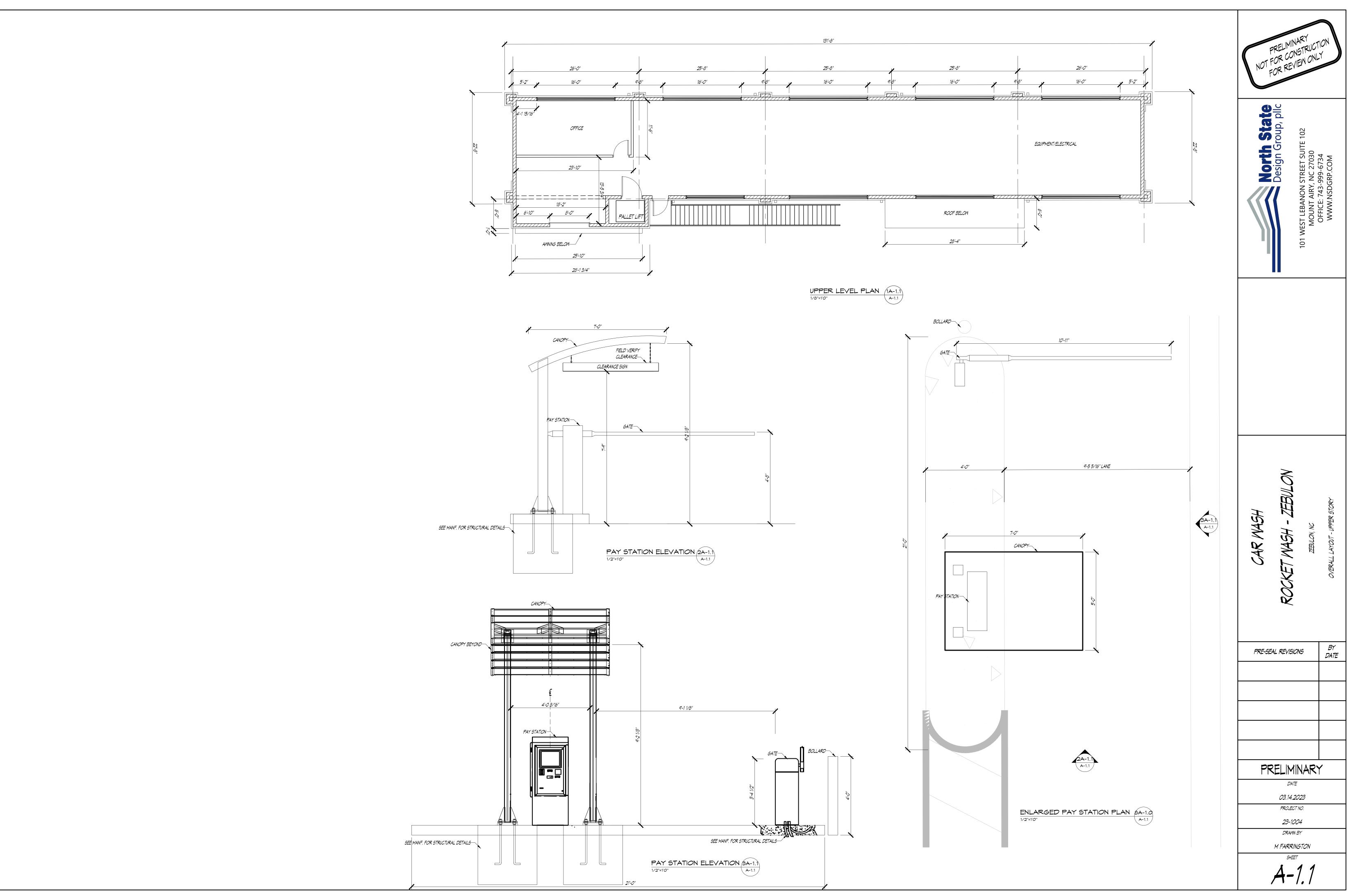
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JOB No.	220094- 220097-	
DATE	June 20,	
FILE No.	220094- 220097-	01-002 01-002
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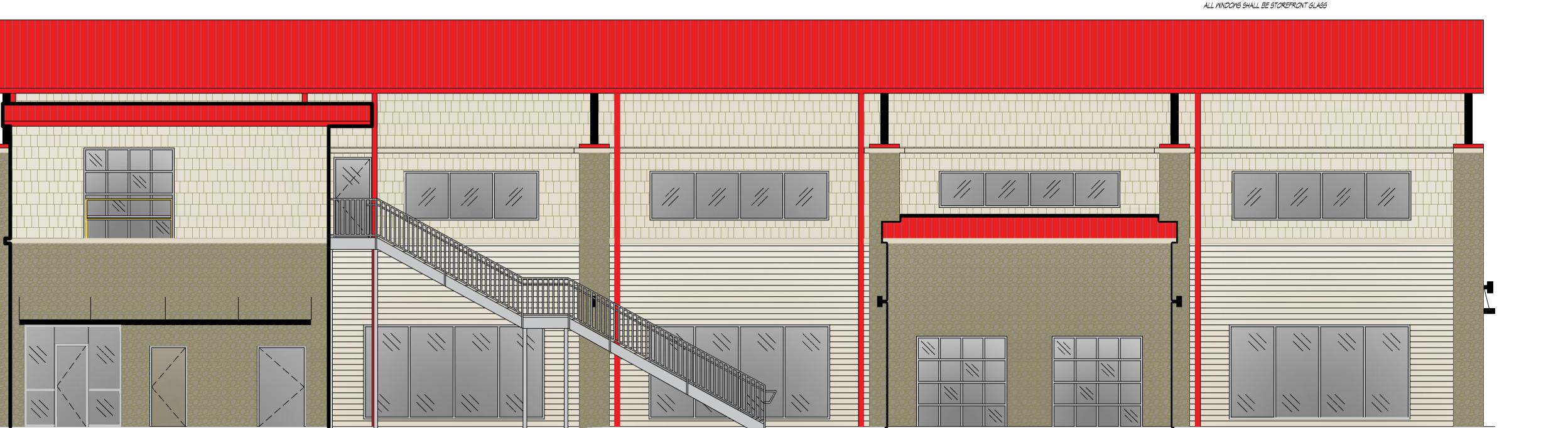








SECONDARY WALLS SHALL BE CONFIGURED SO THAT > 30% OF THE GROUND FLOOR & > 20% OF ANY SECOND FLOOR FACADE IS OCCUPIED BY ~ VISUALLY TRANSPARENT WINDOWS OR DOORS W REGULAR SPACING ~FALSE OR OPAQUE WINDOWS/DOORS W/ REGULAR SPACING ~ARTICULATED WALL FORMS DESIGNED TO MIMIC WINDOW OPENINGS THAT ALSO INCLUDE AN OVERHANG OR AWNING PROVIDED PERCENTAGES ~ UPPER STORY - APPROX. 20% ~ LOWER STORY - APPROX. 30.75% ALL UPPER & LOWER STORY WINDOWS & DOORS SHALL BE OPAQUE OR FALSE <u>EXCEPT</u> RR DOOR & ATTENDANT OFFICE RR DOOR SHALL BE H.M DOOR PAINTED TO MATCH SHAKE OR STONE



ELEVATION - SECONDARY 6A-1.0

~ LOWER STORY - APPROX. 40.2% ALL WINDOWS & DOORS SHALL HAVE VISUAL TRANSPARENCY AT 35% ALL WINDOWS SHALL BE STOREFRONT GLASS SIGNAGE BY OTHERS UNDER SEPARATE PERMIT— CAR WASH SIGN IS APPROX. 40% OF WINDOW AREA - ALLOWABLE WINDOW OBSTRUCTION ${\scriptstyle < }$ 50% – 24 GA. STANDING SEAM METAL ROOF OVER ICE & WATER SHIELD OVER T & — ARCHITECTURAL TIMBER TRUSS, STAINED -COLOR TBD PEAK HEIGHT 36'-0" TRUSS BEARING 28'-10" COL. HT 24'-8" — STRAIGHT EDGE SHAKE SHINGLES COLOR TBD SECOND FLOOR 16'-8" - TRIM COLOR

ATTENDANT OFFICE WINDOWS SHALL HAVE VISUAL TRANSPARENCY AT 35%

TRUSS BEARING 28'-10"

SECOND FLOOR 16'-8"

~ > 40% OF FIRST FLOOR PORTION OF THE PRIMARY WALL IS OCCUPIED BY VISUALLY TRANSPARENT WINDOWS OR DOORS -> 30% OF A SECOND FLOOR PORTION OF THE PRIMARY WALL (IF PROVIDED) IS OCCUPIED BY VISUALLY TRANSPARENT WINDOWS OR DOORS

- STACKED STONE

OVER CMU MASONRY COL.

— HARDILAP SIDING COLOR TBD

 \sim NO MORE THAN 50% OF ANY SINGLE MINDOM OR DOOR IS OBSTRUCTED BY A MINDOM SIGN OR OTHER OPAQUE DISPLAY PROVIDED PERCENTAGES ~ UPPER STORY - APPROX. 31%

PRIMARY WALLS SHALL BE CONFIGURED SO THAT:

~ A WINDOW OR FUNCTIONAL GENERAL ACCESS DOORWAY IS LOCATED > 20 FEET ALONG THE FACADE

CAR WASH

North S Design Gro

BY DATE PRE-SEAL REVISIONS

PRELIMINARY DATE 03.14.2023

PROJECT NO. 23-1004 DRAWN BY

M FARRINGTON

ELEVATION - PRIMARY

35% TRANSPARENCY GLASS

SECTIONAL O.H DOOR

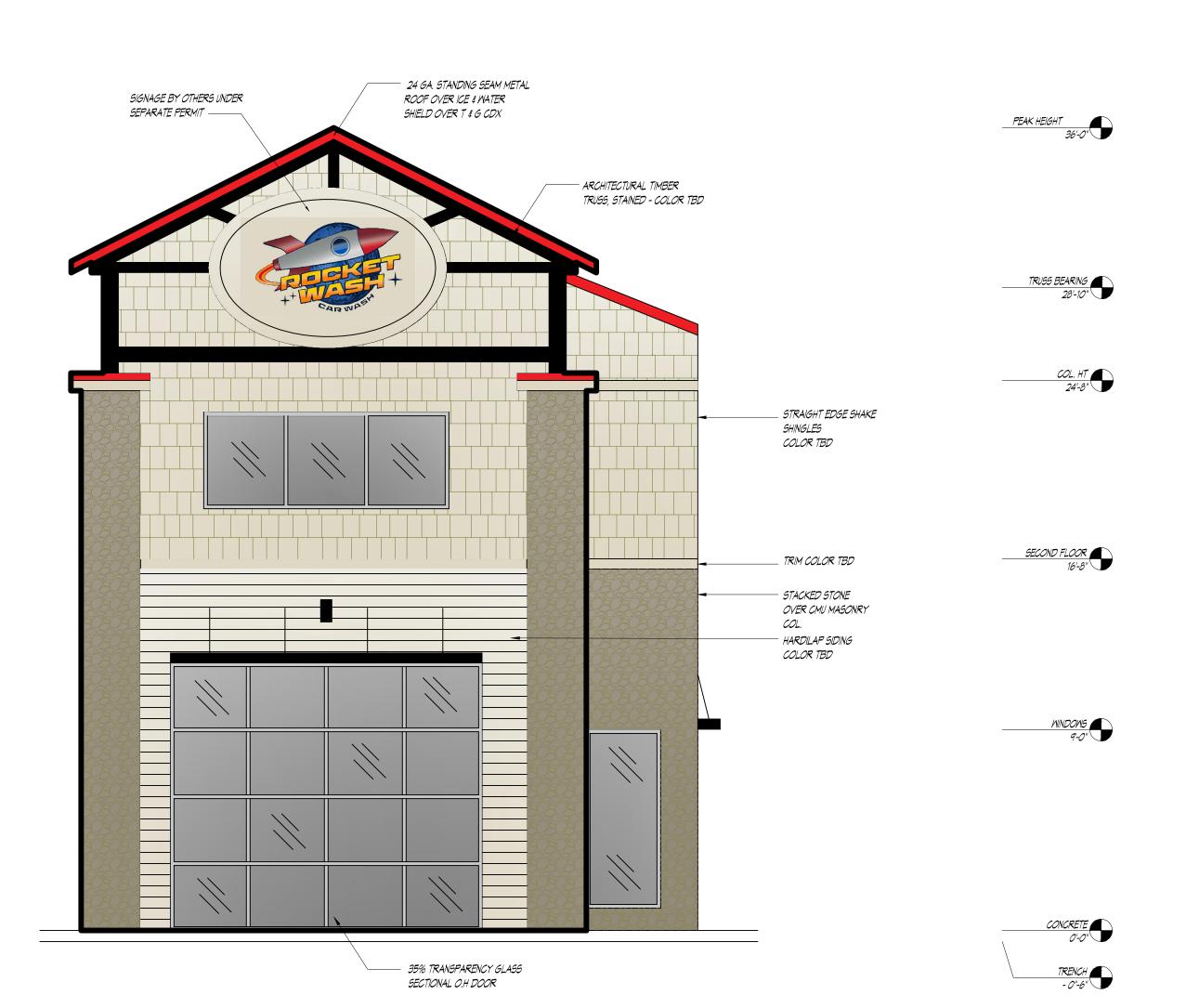




ELEVATION - PRIMARY

1/4"=1'0"

AA-1.0
A-2.1



ELEVATION - PRIMARY

PRIMARY WALLS SHALL BE CONFIGURED SO THAT:

~ UPPER STORY - APPROX. 42.2% ~ LOWER STORY - APPROX. 31%

ALL WINDOWS SHALL BE STOREFRONT GLASS

ALL MINDOMS & DOORS SHALL HAVE VISUAL TRANSPARENCY AT 35%

PROVIDED PERCENTAGES

 \sim \geq 40% OF FIRST FLOOR PORTION OF THE PRIMARY WALL IS OCCUPIED BY VISUALLY TRANSPARENT WINDOWS OR DOORS

~ NO MORE THAN 50% OF ANY SINGLE MINDOM OR DOOR IS OBSTRUCTED BY A WINDOM SIGN OR OTHER OPAQUE DISPLAY

~ A MINDOM OR FUNCTIONAL GENERAL ACCESS DOORMAY IS LOCATED > 20 FEET ALONG THE FACADE

~ > 30% OF A SECOND FLOOR PORTION OF THE PRIMARY WALL (IF PROVIDED) IS OCCUPIED BY VISUALLY TRANSPARENT WINDOWS OR DOORS

PRELIMINARY
NOT FOR CONSTRUCTION
FOR REVIEW ONLY

esign Group, pllc
REET SUITE 102
C 27030
9-6734

Design 101 WEST LEBANON STREET SU MOUNT AIRY, NC 27030 OFFICE: 743-999-6734

CAR WASH ROCKET WASH - ZEBULON

PRE-SEAL REVISIONS

BY DATE

PRELIMINARY

DATE

03.14.2023

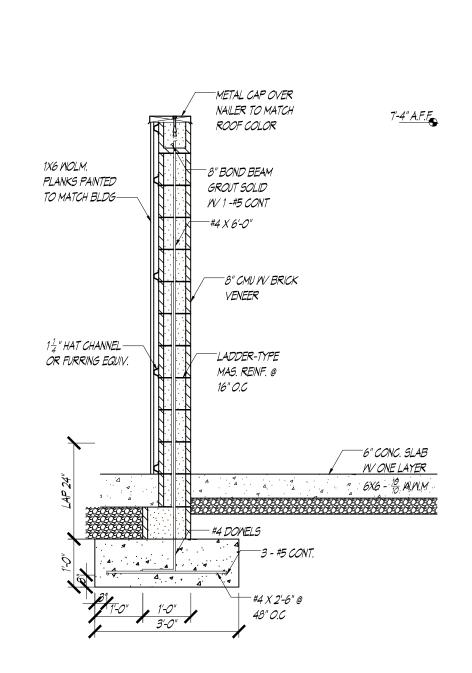
PROJECT NO.

23-1004

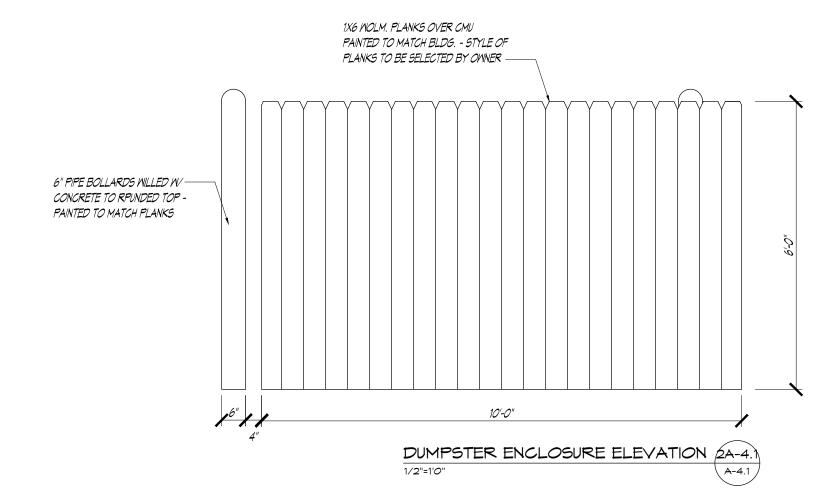
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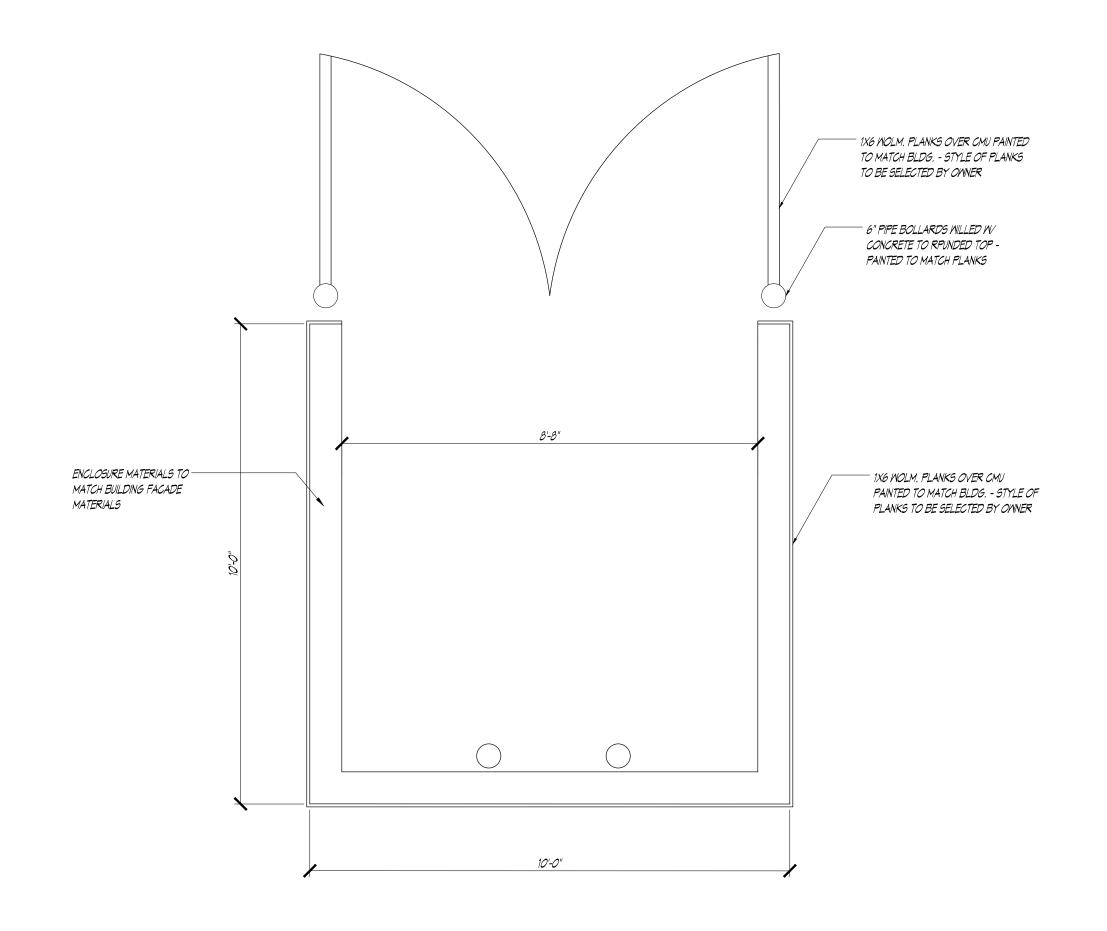
M FARRINGTON

A-2.7

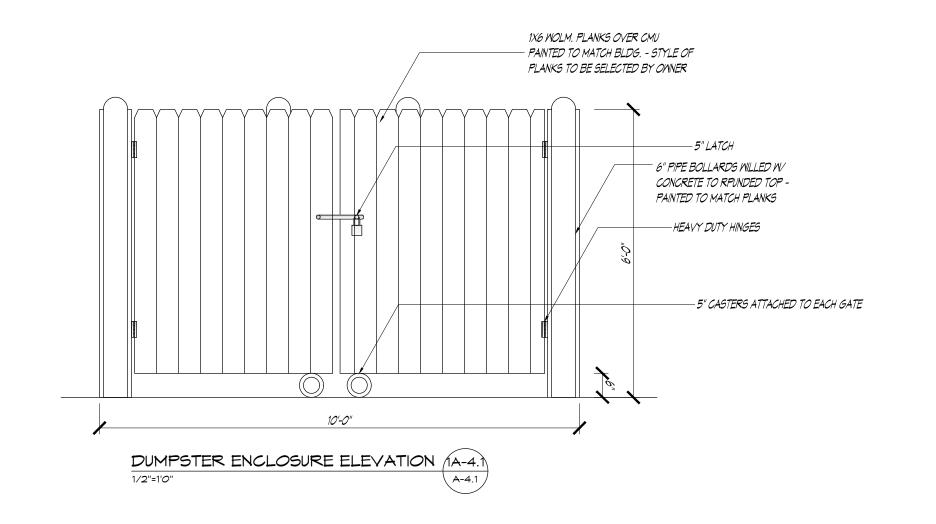


















CAR WASH CCKET WASH - ZEBULON

PRE-SEAL REVISIONS	BY DATE
PRELIMINAR'	1

DATE	
03.15.2023	
PROJECT NO.	
23-1004	
DRAWN BY	
M FARRINGTON	

A-4.1