ZEBULON ANIMAL HOSPITAL

SITE PLAN SUBMITTAL

PROJECT ID: 1130505

1620 N. ARENDELL AVE. ZEBULON, NC

OCTOBER 2, 2023
REVISED: NOVEMBER 20, 2023
REVISED: JANUARY 5, 2024
REVISED: FEBRUARY 1, 2024

REVISED: MARCH 4, 2024

CONTACT INFORMATION

APPLICANT

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OWNER

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LANDSCAPE ARCHITECT SITE COLLABORATIVE, INC.

1620 HILLSBOROUGH ST, SUITE 100 RALEIGH, NC 27605 CONTACT: GRAHAM H. SMITH

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ARCHITECT

CLINE DESIGN ASSOCIATES

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BARTLETT ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH
WILSON, NC 27893
CONTACT: ROBERT BARTLETT
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EMAIL: ROBERT@BARTLETTENG.COM

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 Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.



HEAVY COMMERCIAL (HC) DISTRICT DIMENSIONAL STANDARDS FOR NON-RESIDENTIAL DEVELOPMENT

STANDARD	REQUIRED	PROVIDED				
MINIMUM LOT AREA (SQUARE FEET)	6,000	48,650				
MINIMUM LOT WIDTH (LINEAR FEET)	50	193				
MINIMUM STREET SETBACK (FEET)	30	30				
MINIMUM SIDE SETBACK (FEET)	0, 5 IF PROVIDED					
MINIMUM REAR SETBACK (FEET)	0 IF ABUTTED BY AN ALLEY; OTHERWISE 25	25				
MAXIMUM BUILDING HEIGHT (FEET)	50; HEIGHT MAY INCREASE BY 2 FEET FOR EACH ADDITIONAL FOOT OF SETBACK UP TO 100 FEET IN HEIGHT	26'-2"				
MINIMUM SPACING BETWEEN PRINCIPAL BUILDINGS ON THE SAME LOT (FEET)	25	N/A				

UTILITY ALLOCATION POLICY COMPLIANCE

BASE POINTS: SINGLE USE OFFICE - 30 POINTS

VICINITY MAP

BONUS POINTS:

CATEGORY 1 - NON-CONFORMITY ABATEMENT AND PUBLIC INFRASTRUCTURE IMPROVEMENTS (0)

CATEGORY 2 - GREEN DEVELOPMENT STANDARDS/BUILDING AND SITE DESIGN (10)

SECTION 2B - PARKING

-EV CHARGING STATION (TWO PORT) - 5 POINTS (SEE SHEET L200)

SECTION 2C - STORMWATER SCM'S (MAX 10)
 BIORETENTION - 5 POINTS. (SEE SHEET L300)

CATEGORY 3 - OUTDOOR ENHANCEMENT (12)

CATEGORY 6 - OTHER - MAX 5 POINTS (0)

0 POINTS

SECTION 3A - OUTDOOR ENHANCEMENT (MAX 12)
 SECTION 3A - OUTDOOR ENHANCEMENT (MAX 12)
 SECTION 3A - OUTDOOR ENHANCEMENT (MAX 12)

-PLANTING POLLINATOR GARDEN - 3 POINTS (SÉE SHEET L400)
-INSTALLATION OF NATIVE SHADE TREE SPECIES - 9 POINTS (SEE SHEET L400)

CATEGORY 4 - AMENITIES (8)

ATEGORY 4 - AMENTIES (8)
■ SECTION 4G - ADDITIONAL URBAN OPEN SPACE ENHANCEMENTS (WITHIN NON-RESIDENTIAL

ZONING DISTRICTS) - MAX 10 POINTS

-FOUNTAIN (DECORATIVE) - 2 POINTS (SEE SHEET L200)
-CANOPY INCLUDING FIXED PERMANENT SEATING - 2 POINTS (SEE SHEET L200)

-CANOPY INCLUDING FIXED PERMANENT SEATING - 2 POINTS (SEE SHEET -DRINKING FOUNTAIN WITH PET FOUNTAIN - 2 POINTS (SEE SHEET L200)

-DRINKING FOUNTAIN WITH PET FOUNTAIN - 2 POINTS (SEE SHEET L200)
-LITTLE FREE LIBRARY - 1 POINT (SEE SHEET L200)

-ALL WEATHER BULLETIN BOARD - 1 POINT (SEE SHEET L200)

CATEGORY 5 - AFFORDABLE HOUSING - MAX 10 POINTS (0)

POINT SUMMARY:

CATEGORY 6

BASE 30 POINTS
CATEGORY 1 0 POINTS
CATEGORY 2 10 POINTS
CATEGORY 3 12 POINTS
CATEGORY 4 8 POINTS
CATEGORY 5 0 POINTS

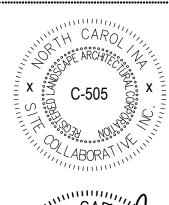
TOTAL 60 POINTS

	SHEET INDEX
L000	COVER
L001	ZONING CONDITIONS AND TOWN OF ZEBULON STANDARD NOTES
L100	EXISTING CONDITIONS
L200	LAYOUT AND HARDSCAPE PLAN
L201	HARDSCAPE LEGEND
L202	HARDSCAPE DETAILS
L203	HARDSCAPE DETAILS
L204	HARDSCAPE DETAILS
L205	HARDSCAPE DETAILS
L300	GRADING PLAN
L400	PLANTING PLAN
L401	PLANT SCHEDULE AND NOTES
L402	PLANTING DETAILS
OV1	OVERALL PLAN
UP1	UTILITY PLAN
DA1	PRE-DEVELOPMENT DRAINAGE AREAS
DA2	POST-DEVELOPMENT DRAINAGE AREAS
SW1	STORMWATER PLAN
SW2	BIORETENTION CELL PLANS
SE1	SEDIMENTATION AND EROSION CONTROL PLAN
DT1	SITE DETAILS
DT2	SEDIMENTATION AND EROSION CONTROL DETAILS

SEDIMENTATION AND EROSION CONTROL NCG01

SITE DA	TA SUMMARY
EXISTING DATA	
PROJECT NAME	ZEBULON ANIMAL HOSPITAL
STREET ADDRESS	1620 N. ARENDELL AVENUE, ZEBULON, NC
ZONING	R2
PIN	1796922199
REAL ID NUMBER	0030585
DEED BOOK / DEED PAGE	DB 2050, PG 630
LAND USE	SINGLE FAMILY RESIDENTIAL
LOT AREA	1.12 AC (48,650 SF)
PROPOSED DATA	
ZONING	HEAVY COMMERCIAL CONDITIONAL (HC-C
PROPOSED USE	VETERINARY CLINIC
R/W DEDICATION	N/A
NET LOT AREA	1.12 AC (48,650 SF)
OPEN SPACE SET-ASIDE REQUIRED	1,459.50 SF (3% OF SITE)
OPEN SPACE SET-ASIDE PROVIDED	4,400 SF (9.04% OF SITE)
PARKING SUMMARY	
PARKING REQUIRED (4 PER DOCTOR)	12 OR 16 SPACES (3 OR 4 DOCTORS)
PARKING PROVIDED	30 SPACES (INCLUDING 1 STD, 1 VAN ACCESSIBLE ADA SPACE)
LOT COVERAGE	
EXISTING LOT COVERAGE	4,010 SF (0.09 AC) (8.24%)
LOT COVERAGE PROPOSED	24,939 SF (0.57 AC) (51%)
LOT COVERAGE ALLOWED	80% OF LOT AREA
CALCULATED LOT COVERAGE ALLOWED	0.8 X 48,650 SF = 38,920 SF (0.89 AC)
NET CHANGE IN LOT COVERAGE	+ 20,929 SF (0.48 AC)







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ZAH REALTY, LLC
1620 N. ARENDELL AVE., ZEBULON, NC

PROJECT NUMBER: 22091

PROJECT PHASE: SITE PLAN SUBMITTAL

DATE: 10.02.2023

REVISED: 11.20.2023

REVISED: 1.5.2024

REVISED: 2.1.2024

3.4.2024 PER

SHEET TITLE:

COVER

NCDOT REVIEW

SHEET NUMBER:

ZONING CONDITIONS

- Use of the property shall be limited to Veterinary Clinic. Such use will comply with section 4.3.5.RR of the Town Zebulon Unified Development Ordinance, except that outdoor exercise area may be located closer than 200 feet from a lot in a residential zone, provided that it is enclosed by a six-foot tall opaque fence as shown on sheet L400 Planting Plan of the Zebulon Animal Hospital Conditional Zoning Plan Dated June 1, 2023.
- 2. In order to accommodate the shallow lot width, the 40-wide buffers required along the residentially zoned properties have been reduced; however, in these locations a six-foot tall opaque fence and enhanced landscaping will be provided as shown on Sheet L400 Planting Plan Zebulon Animal Hospital Conditional Zoning Plan Dated June 1, 2023. Except as noted in

TOWN OF ZEBULON STANDARD CONSTRUCTION NOTES

- 1. ALL ROADWAY AND GREENWAY INFRASTRUCTURE CONSTRUCTION SHALL CONFORM TO THE TOWN OF ZEBULON STANDARDS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A TRAFFIC CONTROL PLAN TO THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR FOR APPROVAL. THE GOAL IS NOT TO RESTRICT TRAFFIC DURING PEAK BUSINESS HOURS OF 6:00 AM AND UNTIL 8:00 AM AND 4:30 TO 6:30 PM MONDAY THROUGH FRIDAY.
- 3. ALL TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL FLAGGING OPERATIONS WITHIN THE TOZ ROW REQUIRE QUALIFIED AND TRAINED WORK ZONE FLAGGERS. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, SIGNS, ETC., TO PROTECT AND SECURE THE CONSTRUCTION AREA, EQUIPMENT, AND MATERIALS FROM THE PUBLIC.
- 5. ALL EXISTING ROADWAYS, DRIVEWAYS, CURB AND GUTTER, SIDEWALK, SIGNAGE OR DRAINAGE STRUCTURES THAT ARE DAMAGED DURING THE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION. THE CONTRACTOR SHALL KEEP THE ROADWAY CLEAN OF DIRT AND DEBRIS AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. EXCAVATION MATERIAL SHALL NOT BE PLACED ON THE ROADWAY AT ANY
- TIME. EXCAVATIONS SHALL NOT BE LEFT OPEN OR UNSAFE DURING OVERNIGHT HOURS 6. AT THE END OF EACH WORKING DAY, EQUIPMENT SHALL BE PARKED A MINIMUM OF 15' FROM THE BACK OF THE CURB TO ENSURE SAFETY OF THE VEHICLE TRAFFIC.
- 7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF OTHER UTILITIES WITHIN THE PROJECT SCOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OTHER UTILITIES OWNERS AND PROVIDE PROTECTION AND SAFEGUARDS TO PREVENT DAMAGE OF INTERRUPTION TO EXISTING FACILITIES AND TO MAINTAIN ACCESSIBILITY TO EXISTING UTILITIES.
- CONTRACTOR SHALL CONTRACT JASON BROWN AT 919-795-5640 WITH THE TOWN OF ZEBULON TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS OF NOTICE TO THE TOWN PRIOR TO BEGINNING CONSTRUCTION.
- 9. ALL ROADWAY, GREENWAY, SIDEWALK AND STORM DRAINAGE IMPROVEMENTS IN ROW OR DEDICATED PUBLIC EASEMENTS WILL BE REQUIRED TO BE DEDICATED TO THE TOWN OF ZEBULON AT COMPLETION OF THE PROJECT.
- 10. AS-BUILT SITE PLANS FOR ROADWAY, GREENWAY AND UTILITY WORK MUST BE SUBMITTED AND APPROVED PRIOR TO FINAL ACCEPTANCE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REDLINE LINE DRAWINGS.
- 11. DEVELOPER/OWNER IS RESPONSIBLE FOR CONTRACTING WITH THIRD PARTY NCDOT CERTIFIED TESTING FIRM. TOWN OF ZEBULON MUST APPROVE THE FIRM IN ADVANCE. MATERIAL TESTING IS REQUIRED FOR ALL ROADWAY AND GREENWAY TRAIL WORK. FINAL REPORTING AND SEALED CERTIFICATION IS REQUIRED AT COMPLETION OF THE PROJECT BY THE GEO-TECHNICAL ENGINEER. TESTING IS REQUIRED FOR SUBGRADE, ROADWAY/GREENWAY STONE, AND ASPHALT, CURB, AND GUTTER PER TOWN OF ZEBULON SPECS.
- 12. AT THE COMPLETION OF THE PROJECT, THE DEVELOPER SHALL PROVIDE THE TOWN A ONE-YEAR WARRANTY ON ALL IMPROVEMENTS DEDICATED TO THE TOWN OF ZEBULON.

TOWN OF ZEBULON STANDARD CONSTRUCTION NOTES: CONCRETE

- 1. ALL DEDICATED CONCRETE SIDEWALK REQUIRES CONCRETE TESTING FOR THE
- FOLLOWING REQUIREMENTS SECTION 2.1.1 4" CONCRETE SLUMP
- TEMPERATURE 50 AND 90 DEGREES
- AIR MIXTURE RANGE 3.5% TO 6.5%
- STRUCTURAL STRENGTH BREAK TEST 7,14,28 DAYS @ 3000 PSI @ 28 DAYS
- SAMPLES EVERY 1000 LF OF CURB AND GUTTER TO ENSURE QUALITY MAX WATER -CEMENT RATIO BY WEIGHT: 0.594
- MINIMUM CEMENT CONTENT (LBS/CY): 602
- CONCRETE SIDEWALK TESTING IS NOT REQUIRED, UNLESS CONSTRUCTION INSPECTOR DETERMINES THAT THE QUALITY IS INFERIOR AND DOES NOT MEET INDUSTRY STANDARDS. CONTRACTOR MUST MAINTAIN A 4-INCH SLUMP FOR ALL SIDEWALK WORK. AIR TEMPERATURES AT PLACEMENT MUST BE 40 DEGREES AND RISING. SURFACE TEMPERATURES SHALL BE 50 DEGREES OR GREATER. (SECTION 2.2.2 E)

TOWN OF ZEBULON STANDARD CONSTRUCTION NOTES: STORM DRAINAGE INFRASTRUCTURE

1. ALL STORMWATER SYSTEM DRAINAGE WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER LESS THE AREA IS IN A PUBLIC DEDICATED DRAINAGE EASEMENT

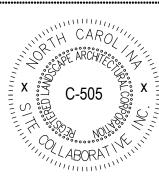
TOWN OF ZEBULON STANDARD CONSTRUCTION NOTES: ROADWAY/GREENWAY SUBGRADE. ROADWAY ABC AND ASPHALT

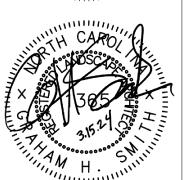
- ROADWAY/GREENWAY SUB-GRADE: THE BASE SOIL ELEVATION DETERMINED BY APPROVED ENGINEERED DRAWINGS PRIOR TO PLACEMENT OF ROADWAY ABC AND ASPHALT
- ROADWAY/GREENWAY STONE GRADE: THE APPROVED COMPACTED ROADWAY SUB-GRADE PLUS THE COMPACTED STONE GRADE PRIOR TO PLACEMENT OF ASPHALT.
- 3. IN ALL CASES, THE ROADWAY/GREENWAY SUB-GRADE MUST PAST A PROOF-ROLL TEST BEFORE PLACEMENT OF STONE. THE DEVELOPER/OWNER/CONTRACTOR SHOULD PROVIDE THIRD PARTY NCDOT CERTIFIED GEOTECHNICAL FIRM TO PERFORM DENSITY TESTING OF SUB-GRADE EVERY 300 FEET AND ROADWAY/GREENWAY ABC EVERY 150 FEET VIA A NUCLEAR GAUGE. THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR WILL SELECT VARIOUS LOCATIONS OF THE DENSITY TESTING. IT IS RECOMMENDED THAT TESTING BE PERFORMED AT FILL LOCATIONS OR UTILITY CUTS. A TOWN OF ZEBULON CONSTRUCTION INSPECTOR MUST BE PRESENT DURING ALL TESTING. ALL TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE TOWN OF ZEBULON PUBLIC WORKS DIRECTOR BEFORE ROADWAY STONE IS INSTALLED.
- 4. PROOF ROLL STANDARD- A FULLY LOADED DUMP TRUCK/MOTOR GRADER THAT HAS A MINIMUM GROSS WEIGHT OF AT LEAST 40,000 POUNDS (20 TONS) UNDER THE OBSERVATION OF THE TOWN OF ZEBULON REPRESENTATIVE. NO OTHER METHOD WILL BE ACCEPTED. ALL AREAS OF THE ROADWAY/GREENWAY SUB-GRADE OR ROADWAY STONE SHALL BE COVERED BY THE WHEELS OF THE PROOF-ROLLER OPERATING AT WALKING SPEED (TWO TO THREE MILES PER HOUR) OR 225 TO 300 FEET PER MINUTE.
- 5. IT IS THE CONTRACTOR RESPONSIBILITY TO PROTECT ALL STRUCTURAL FACILITIES ON THE PROJECT SUCH AS BRIDGES, BOX CULVERTS, PIPE CULVERTS, AND UTILITIES FROM
- DAMAGE FROM PROOF ROLLING EQUIPMENT. 6. PROOF ROLLS ARE REQUIRED AT THE ROADWAY/GREENWAY SUB-GRADE CONSTRUCTION
- PHASE AND ROADWAY/GREENWAY STONE CONSTRUCTION PHASE ANY AND ALL AREAS, WHICH RUT OR PUMP EXCESSIVELY UNDER THE WHEELS OF THE PROOF-ROLLER SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR BEFORE ROADWAY STONE OR ASPHALT IS INSTALLED
- 8. PROOF ROLL AREAS AGAIN FOLLOWING THE COMPLETION OF THE NECESSARY CORRECTIONS. ALL COST ASSOCIATED WITH THE PROOF ROLLING PROCESS IS THE RESPONSIBILITY OF DEVELOPER/OWNER OR CONTRACTOR.
- THE TOWN SHALL NOT BE RESPONSIBLE FOR ENSURING PROPER GRADES AND ALIGNMENT OF ROADWAY/GREENWAY AND CURB AND GUTTER. IF THE ALIGNMENT AND GRADES ARE INCORRECT; IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER TO MAKE CORRECTIVE REPAIRS AT THEIR OWN EXPENSE.
- 10. REQUIREMENTS: 98% STANDARD PROCTOR ON ALL SOILS EVERY 300'. ALL LOCATIONS TESTED SHALL MEET THE 98% TESTING REQUIREMENTS. AVERAGING OF DENSITY SCORES TO MEET STANDARD IS NOT ALLOWED.
- 11. SUCCESSFUL PROOF-ROLLS REQUIRED FOR ALL SUB-GRADE SOILS. ALL ROADWAY
- SUBGRADE MUST PASS A PROOF-ROLL TEST (NO EXCEPTIONS). 12. ROADWAY/GREENWAY SUB GRADE THAT DOES NOT PASS THE PROOF ROLL TEST OR DENSITY TEST WILL REQUIRE REMEDIAL REPAIRS. REPAIR RECOMMENDATIONS FROM GEO-TECHNICAL FIRM CAN BE MADE BY USING SEVERAL METHODS INCLUDING THE USE OF GEO-GRID/STABILIZATION FABRIC AND ADDITIONAL ABC STONE, CEMENT STABILIZATION, LIME STABILIZATION OR REPLACEMENT OF UNSUITABLE SOILS WITH DRIER/MORE SUITABLE SOILS. REGARDLESS OF THE METHOD CHOSEN BY THE CONTRACTOR, GEOTECHNICAL FIRM, DEVELOPER OR OWNER FOR REMEDIAL REPAIRS; A SUCCESSFUL PROOF-ROLL MUST BE OBTAINED PRIOR TO PLACEMENT OF ABC STONE CAN BEGIN.
- 13. IF REPAIRS WERE MADE TO THE ROADWAY/GREENWAY SUB GRADE INVOLVE USING GEO-GRID/STABILIZATION FABRIC AND ADDITIONAL STONE; NO DENSITY ADDITIONAL TESTING IS REQUIRED. IF REPAIRS TO THE ROADWAY SUB GRADE INVOLVE UNDERCUTTING UNSUITABLE SOILS AND REPLACEMENT WITH OTHER SOILS THAT ARE MORE SUITABLE THEN DENSITY TESTING IS REQUIRED TO VERIFY COMPLIANCE OF 98% COMPACTION REQUIREMENT. THE CONTRACTOR/GEO-TECHNICAL FIRM MUST PROVIDE THE TOWN OF ZEBULON INSPECTOR WITH DENSITY TEST RESULTS PRIOR TO PLACEMENT OF ABC STONE WERE REQUIRED. ALL COST OF DENSITY TESTING SHALL BE BY THE DEVELOPER OR OWNER.
- 14. NOTE: IF THE ROADWAY/GREENWAY SUB-GRADE IS EXPOSED TO PRECIPITATION (RAIN, SNOW, ICE, ETC.) GREATER THAN A 1/10 OF INCH BEFORE IT IS COVERED WITH ABC STONE. THE EXPOSED SUB-GRADE MUST PASS AN ADDITIONAL PROOFROLL. ADDITIONAL DENSITY TESTING IS NOT REQUIRED UNDER THESE CONDITIONS.
- 15. REQUIREMENTS: 98% STANDARD PROCTOR ON ALL ROADWAY/GREENWAY ABC EVERY 150' ALL LOCATIONS TESTED SHALL MEET THE 98% TESTING REQUIREMENTS. AVERAGING OF DENSITY SCORES TO MEET STANDARD IS NOT ALLOWED. SUCCESSFUL PROOF-ROLLS REQUIRED FOR ALL ROADWAY/GREENWAY ABC STONE
- 16. ROADWAY/GREENWAY ABC STONE MUST BE INSTALLED PER TOWN OF ZEBULON MINIMUM REQUIREMENTS AND/OR APPROVED ENGINEERING ROADWAY DRAWINGS. ROADWAY ABC STONE SHALL BE INSTALLED IN COMPACTED LIFTS PER MANUFACTURE EQUIPMENT RECOMMENDATIONS. A MINIMUM OF SIX INCHES OF COMPACTED ABC STONE SHALL BE INSTALLED UNDER CURB AND GUTTER. ALL ROADWAYS WILL HAVE A MINIMUM OF EIGHT INCHES OF COMPACTED ABC STONE. THE PLACEMENT OF ROADWAY ABC STONE IS REQUIRED TO PASS A PROOFROLL AND PASS DENSITY TESTING OF 98% MINIMUM EVERY 150' FEET. THE ZEBULON CONSTRUCTION INSPECTOR MUST HAVE DENSITY TESTING RESULTS PRIOR TO START OF PAVING. THE ROADWAY STONE CROSS-SLOPE, FROM CROWN TO CURB, SHALL BE CHECKED WITH A STRING LINE PRIOR TO THE PLACEMENT OF ASPHALT.
- 17. THE ROADWAY/GREENWAY STONE SHALL BE PROOF ROLLED JUST PRIOR TO THE PLACEMENT OF ASPHALT. IF A SECTION OF ROADWAY FAILS PRIOR TO PLACEMENT OF ASPHALT AFTER ALL OTHER SUCCESSFUL TESTS: ADDITIONAL ASPHALT AT THE DIRECTION OF THE CONSTRUCTION INSPECTOR MAY BE ALLOWED. ONE INCH OF ASPHALT MAY BE SUBSTITUTED FOR EVERY TWO INCHES OF STONE
- 18. NOTE: IF THE ROADWAY/GREENWAY ABC IS EXPOSED TO PRECIPITATION (RAIN, SNOW, ICE ETC.) GREATER THAN 1/10 INCH BEFORE IT IS COVERED WITH ABC STONE, THE EXPOSED SUB-GRADE MUST PASS AN ADDITIONAL PROOF-ROLL. ADDITIONAL DENSITY TESTING IS NOT REQUIRED UNDER THESE CONDITIONS.
- ASPHALT PLACEMENT SHOULD BE IN ACCORDANCE WITH ENGINEERING DRAWINGS. SIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL INSTALL ASPHALT IN MULTIPLE LAYERS/LIFTS. THE FINAL 1" OR 1.5" OVERLAY WILL BE AT THE 80% BUILDING PERMIT LEVEL FOR EACH PHASE OR AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR. ASPHALT CORES WILL BE TAKEN AT BOTH OVERLAYS TO INSURE COMPLIANCE WITH ENGINEERING DRAWINGS FOR THICKNESS AND

Mix Type	Single Lift Depths - min/max	Max layer total depths	Density
SF4.75A	0.5-1.0 inches	2" Depth	85%
SF9.5C & D	1.5-2.0 inches	3" Depth	92%
SF9.5B	1.0-1.5 inches	3" Depth	90%
I-19.0C	2.5-4.0 inches	4" Depth	92%
B25.0C	3.0-5.5 inches	No limit	92%

- 20. ASPHALT MIXTURES SHALL NOT BE PLACED DURING RAINY WEATHER, WHEN SUBGRADE OR COURSE IS FROZEN, OR WHEN THE MOISTURE ON THE SURFACE TO BE PAVED WOULD PREVENT A PROPER BOND. ASPHALT MATERIAL MUST NOT BE PLACED WHEN THE AIR TEMPERATURE MEASURED IN THE SHADE AWAY FROM ARTIFICIAL HEAT AT THE LOCATION OF THE PAVING OPERATION AND THE ROAD SURFACE TEMPERATURE IN THE SHADE AT THE PAVING SITE IS BELOW 40 DEGREES AIR TEMPERATURE AND 50 DEGREES MINIMUM SURFACE TEMPERATURE.
- 21. ASPHALT CORE SAMPLES SHOULD BE SELECTED EVERY 300' FEET OR MINIMUM OF TWO CORES PER ROADWAY FOR ANALYSIS OF THICKNESS AND DENSITY.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING/CREATING A CHART/MAP IF THE
- CORED LOCATIONS FOR SUBMITTAL WITH THE TESTING. CORES WILL BE RANDOMLY TAKEN ALONG THE LONGITUDINAL DIRECTIONS ACROSS THE ROADWAY/GREENWAY BUT NOT WITHIN ONE FOOT OF THE EDGE OF PAVEMENT. THE RESULTS OF SAMPLES GREATER THAN 10 FEET APART WILL NOT BE AVERAGE AND USED TO VERIFY COMPLIANCE WITH THE TOWN OF ZEBULON SPECIFICATIONS. (SECTION 2.6.H)







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PROJECT NUMBER: 22091

SITE PLAN

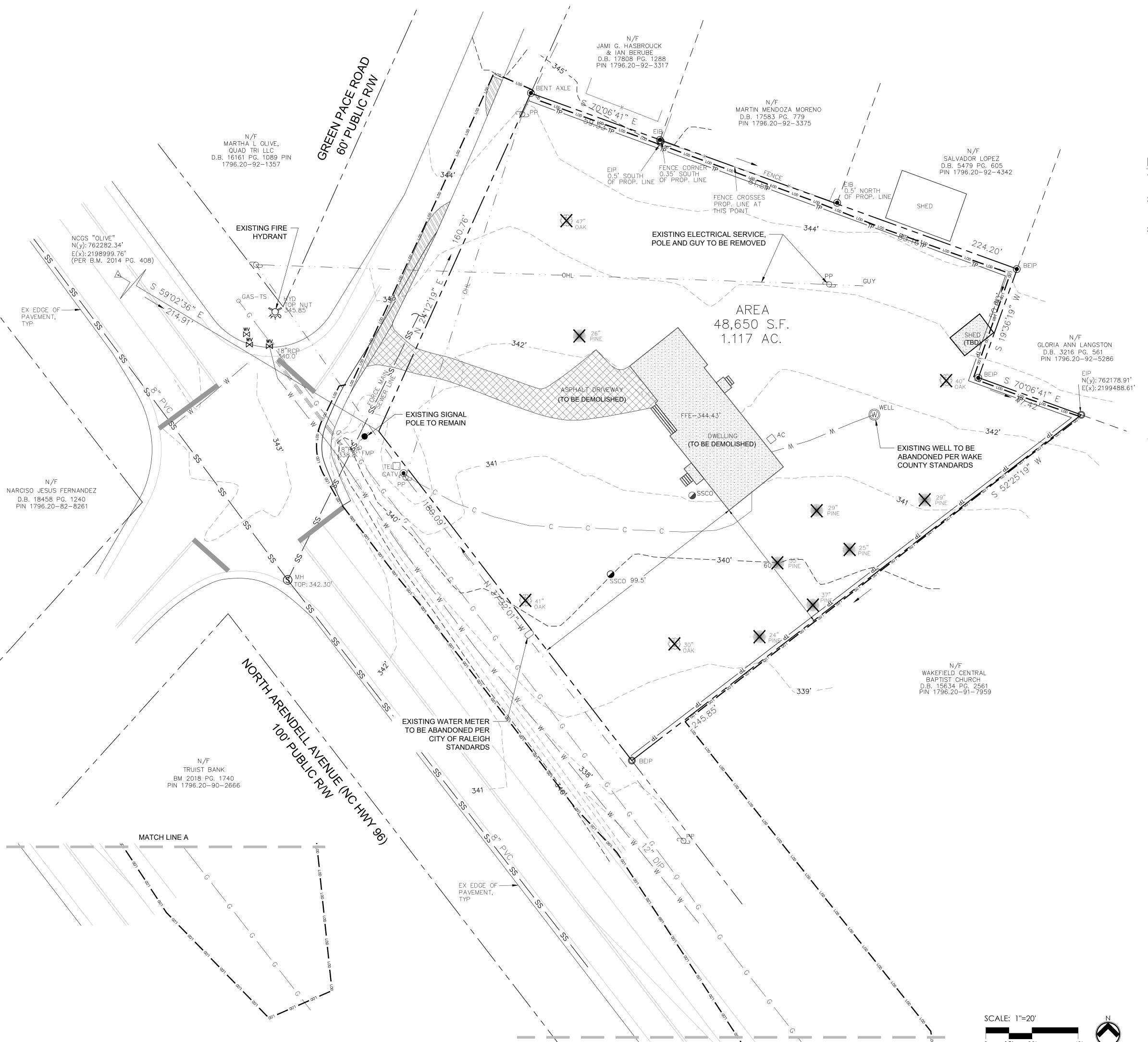
SUBMITTAL DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER

NCDOT REVIEW

N

SHEET TITLE: ZONING CONDITIONS & TOWN OF ZEBULON

STANDARD NOTES



MATCH LINE A

EXISTING CONDITIONS LEGEND							
KEY	DESCRIPTION						
— w — w —	EXISTING WATERLINE						
—— ss ——	EXISTING SANITARY SEWER						
	EXISTING OVERHEAD ELECTRIC						
— G — G —	EXISTING GAS MAIN						
	EXISTING STORM SEWER						
X	EXISTING FIRE HYDRANT						
₩V	EXISTING WATER VALVE						

EXISTING CONDITIONS NOTES

1. EXISTING CONDITIONS SURVEY PROVIDED BY CMP PROFESSIONAL LAND SURVEYORS, WAKE FOREST, NC. DATED MARCH 22, 2023.

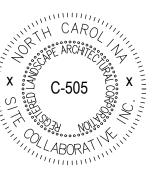
- 2. PROJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS REFERENCED BY FEMA FLOOD INSURANCE RATE MAP NO. 3720179600K, EFFECTIVE DATE JULY 19, 2022.
- 3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

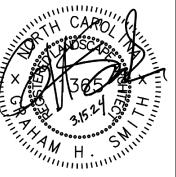
KEY DESCRIPTION				
EXISTING ASPHALT AND SUBBASE TO BE REMOVED				
EXISTING DRIVEWAY AND SUBBASE TO BE REMOVED				
EXISTING STRUCTURE AND FOUNDATION TO BE REMOVED				
EXISTING TREE OR SHRUB TO BE REMOVED GRIND STUMP TO 12" BELOW GRADE.				
TREE PROTECTION FENCE				
LOD LOD	LIMITS OF DISTURBANCE			

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE N.C. ONE CALL CENTER AT 811 OR 1-800-632-4949 PRIOR TO STARTING WORK.
- 2. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNING PUBLIC UTILITIES DEPARTMENT PRIOR TO STARTING WORK.
- 3. ALL DEMOLITION, AND ANY SUBSEQUENT CONSTRUCTION, SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS SET FORTH AND APPROVED BY THE LOCAL GOVERNING MUNICIPALITY OR THE STATE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
- 4. THE CONTRACTOR SHALL NOT MAKE ANY LANE CLOSURES OR CHANGES TO THE EXISTING TRAVEL PATTERNS ON ANY PUBLIC STREET WITHOUT PRIOR APPROVAL FROM THE LOCAL GOVERNING MUNICIPALITY TRANSPORTATION DEPARTMENT AND/OR STATE TRANSPORTATION DEPARTMENT.
- 5. LANE CLOSURE. TRAFFIC CONTROL PLAN. OR PEDESTRIAN CONTROL PLAN TO BE COORDINATED WITH APPROPRIATE STAFF OF THE LOCAL GOVERNING MUNICIPALITY AND/OR STATE DEPARTMENT OF TRANSPORTATION PRIOR TO ANY CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING REMOVAL AND DISPOSAL OF MATERIALS
- 7. CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR SANITARY SEWER AND WATER REMOVALS AND RELOCATIONS.
- 8. RELOCATION OF EXISTING UTILITIES TO BE COORDINATED WITH THE LOCAL UTILITY PROVIDER(S).
- 9. WHERE UTILITIES (TO BE REMOVED) IMPACT THE FOOTPRINT OF THE NEW BUILDING, CONTRACTOR SHALL EXCAVATE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF PIPE, AND 1 FOOT BELOW TO REMOVE UNSUITABLE SOILS, IF UNSUITABLE SOILS EXIST.
- 10. CLEANOUTS LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION THAT ARE TO REMAIN, SHALL BE PROTECTED FROM DAMAGE AND RAISED TO FLUSH WITH NEW GRADE.
- 11. ELECTRICAL OR GAS UTILITY SERVICES TO BE REMOVED SHALL BE REMOVED AND RELOCATED (AS INDICATED) BY THE UTILITY PROVIDER. CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE APPROPRIATE SERVICE PROVIDER. ALL SERVICES SHOULD BE RE-INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT, SIDEWALKS, CURB AND GUTTER, OR OTHER PERMANENT FEATURES.
- 12. REMOVE EXISTING CONCRETE (WHERE REQUESTED) TO FIRST COLD JOINT OR SAWCUT JOINT TO OBTAIN A CLEAN EDGE FOR NEW CONSTRUCTION. SAWCUT EXISTING ASPHALT DRIVE AT LIMITS OF NEW CURBING TO OBTAIN A CLEAN EDGE.
- 13. CONTRACTOR SHALL RESTORE THE LAYDOWN AND STAGING AREA TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE OWNER, PRIOR TO DEMOBILIZATION AT THE CONCLUSION OF THE PROJECT.
- 14. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS PERFORMED IN ACCORDANCE WITH SPECIFICATIONS, GEOTECHNICAL REPORT, AND SITE PLAN.
- 15. ALL FENCING TO BE REMOVED SHALL BE REMOVED AT NEXT NEAREST POLE.
- 16. ALL GRAVEL TO BE REMOVED (SURFACE OR SUBSURFACE) SHALL BE STOCKPILED AND REUSED ON SITE WHERE POSSIBLE
- 17. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
- 18. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFFSITE UNLESS OTHERWISE NOTED ON THIS PLAN.
- 19. ALL TREES TO BE REMOVED SHALL BE GROUND DOWN TO A MINIMUM DEPTH OF 12" BELOW PROPOSED FINISH GRADE.
- 20. ALL TREE PROTECTION FENCING SHALL REMAIN IN PLACE DURING DEMOLITION AND CONSTRUCTION.
- 21. CONTRACTOR SHALL NOT STOCKPILE SOILS OR CONSTRUCTION EQUIPMENT WITHIN ROOT ZONES OF EXISTING TREES TO REMAIN. ANY DAMAGED TREES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.







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PROJECT NUMBER: 22091

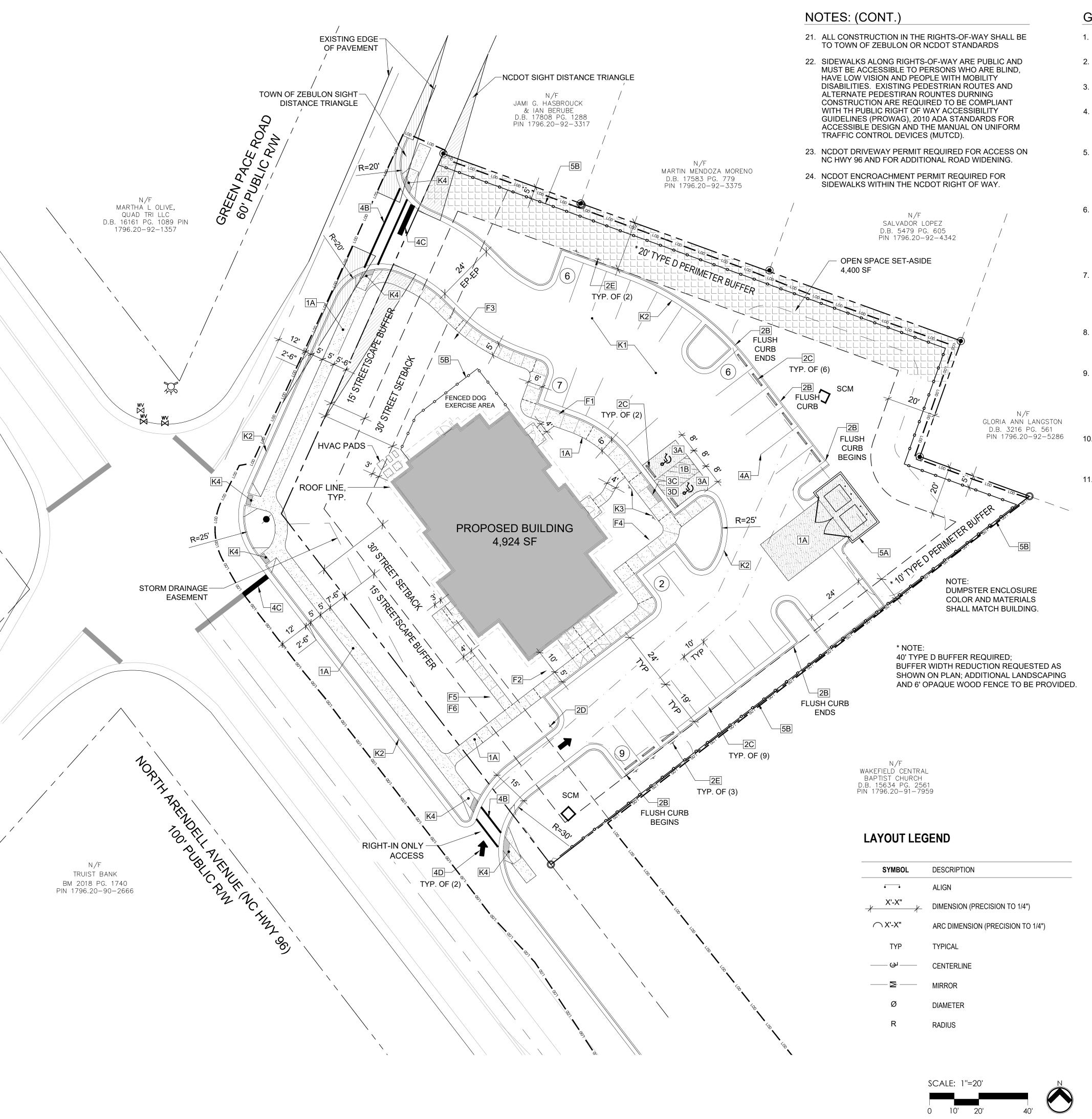
SITE PLAN

SUBMITTAL DATE: 10.02.2023

REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER NCDOT REVIEW

SHEET TITLE: **EXISTING CONDITONS &**

DEMOLITION PLAN



GENERAL SITE NOTES

- 1. ALL PAVEMENTS TO SLOPE POSITIVELY AWAY FROM ALL BUILDINGS. PONDING OF WATER IS PROHIBITED.
- 2. ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF SIDEWALK UNLESS OTHERWISE NOTED.
- 3. ALL CURB RADII ARE 4'-6" AT BACK OF CURB UNLESS OTHERWISE NOTED.
- 4. PROVIDE CONSTRUCTION JOINTS IN CONCRETE WALKWAYS AS SHOWN IN PLANS. IF NOT SHOWN ON PLANS, SCORE JOINT - MAX SPACING @ 10', EXPANSION JOINT MAX SPACING @ 50'.
- 5. THROUGHOUT PROJECT SITE, ALL DIMENSIONS TO BE FIELD VERIFIED. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCY. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING, TO CENTERLINE, CENTER TO CENTER ON STRIPES, AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
- 6. THE CONTRACTOR, AT ALL TIMES, MUST KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY THE CONTRACTOR, THE CONTRACTOR'S EMPLOYEES OR THE CONTRACTOR'S SUBCONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY
- 7. IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE ONLY WITH THE EXPRESSED WRITTEN PERMISSION OF THE OWNER.
- 8. LANDSCAPE ARCHITECT AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 9. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE, ARE BASED ON A FIELD DATA PROVIDED TO LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES, UNDERGROUND LINES, AND STRUCTURES AS NECESSARY TO AVOID DAMAGING OR DESTROYING EXISTING SERVICES.
- CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA ONE CALL CENTER AT 811 OR 1-800-632-4949 PRIOR TO STARTING WORK. ALL UTILITIES SHALL BE MARKED PRIOR TO STARTING WORK.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE ACTUAL AND EXACT LOCATION, SIZE,

HARDSCAPE LEGEND

VÉH.// PED.

REFER TO SHEET L201 FOR FULL LEGEND

3D

SYMBOL PROPOSED SITE ITEM

C.I.P. CONCRETE PAVING

2B 6" WIDE FLUSH CONCRETE CURB

CONCRETE WHEELSTOP

"EMPLOYEE PARKING ONLY" SIGN

ADA DETECTABLE WARNING SURFACE

4" THERMOPLASTIC PARKING STRIPE

CROSSWALK, THERMOPLASTIC PAINT

DIRECTIONAL ARROW, THERMOPLASTIC PAINT

STOP BAR, THERMOPLASTIC PAINT

DUMPSTER ENCLOSURE WITH GATE

CANOPY WITH PERMANENT SEATING

DRINKING FOUNTAIN WITH PET FOUNTAIN

6' HT. OPAQUE FENCE

F1 2 PORT EV CHARGING STATION

DECORATIVE FOUNTAIN

F6 ALL-WEATHER BULLETIN BOARD

STANDARD CURB & GUTTER

SINGLE HANDICAP RAMP

F5 LITTLE FREE LIBRARY

SYMBOL BY OTHER CONSULTANTS

ASPHALT PAVING

HANDICAP SIGN

SYMBOL OTHER

TYP. TYPICAL

PA PLANTING AREA

---- EXPANSION JOINT

SCORE JOINT

OPEN SPACE SET-ASIDE

10'x70' SIGHT TRIANGLE

SYMBOL SITE FURNITURE

"DO NOT ENTER" SIGN

ADA PARKING

ADA RAMP

- AND MATERIAL COMPOSITION OF ANY EXISTING WATER OR SEWER SERVICE PROPOSED FOR CONNECTION OR USE ON THIS PROJECT AND FOR THE RELOCATION OF ANY UTILITY SERVICES REQUIRED TO COMPLETE ANY PORTION OF THESE CONSTRUCTION PLANS.
- 12. CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD ANY FIELD CHANGES, ALONG WITH ANY PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE END OF THE
- 13. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMITS AS ISSUED, AND ANY AND ALL APPLICABLE STATE, COUNTY AND LOCAL CODES.
- 14. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED OR RESTORED TO THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE OWNER OF THE IMPROVEMENTS.
- 15. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, AND/OR ANY OTHER REQUIREMENTS WHICH MUST BE MET UNDER CONTRACT.
- 16. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR DETAILS OF BUILDINGS AND BUILDING DIMENSIONS
- 17. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF ALL UNDERGROUND UTILITIES FOR THIS PROJECT WITH THE OWNER'S REPRESENTATIVE PER ALL APPLICABLE REGULATIONS.
- 18. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES.
- 19. ALL DEMOLITION, AND ANY SUBSEQUENT CONSTRUCTION, SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. ALL TREE PROTECTION FENCING SHALL REMAIN IN PLACE DURING CONSTRUCTION.
- 20. THIS SITE SHALL BE FULLY COMPLIANT WITH THE CURRENT EDITION OF THE NORTH CAROLINA ACCESSIBILITY CODES (ANSI 117.1 AND CHAPTER 11 OF THE NCBC) UNLESS AND EXCEPT IN AREAS WHERE AN APPROVED STATEMENT FROM A SITE ENGINEER. SURVEYOR OR LANDSCAPE ARCHITECT VERIFIES THAT SITE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE POSSIBLE.

DETAIL/SHEET

2/L202

6/L202

1/L203

2/L203

4/L203

1/L204

2/L204

3/L203

1/L202

1/L205

3/L205

4/L205

2/L205

PER CIVIL

PER CIVIL

PER CIVIL

PER CIVIL

4/L202

4/L202



COLLABORATIVE

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> RENDELL \mathcal{L} 20 9 7

PROJECT NUMBER: 22091

SITE PLAN SUBMITTAL

DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER

LAYOUT AND

NCDOT REVIEW

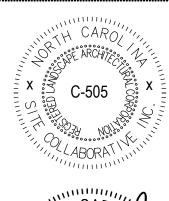
HARDSCAPE PLAN

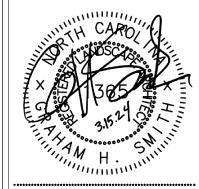
SHEET NUMBER:

HARDSCAPE LEGEND

	SYMBOL	PROPOSED SITE ITEM	DETAIL/SHEET	MANUFACTURER	MODEL #	COLOR	FINISH	NOTE
VEH PED PED	1A	C.I.P. CONCRETE PAVING	2/L202	LOCAL BATCH PLANT	N/A	NATURAL GRAY	MED. BROOM FINISH	
	2B	6" WIDE FLUSH CONCRETE CURB	6/L202	LOCAL BATCH PLANT	N/A	NATURAL GRAY	MED. BROOM FINISH	
<u></u>	2C	CONCRETE WHEELSTOP	3/L202	LOCAL SUPPLIER	CODE COMPLIANT	NATURAL GRAY		
	2D	"DO NOT ENTER" SIGN		LOCAL SUPPLIER	MUTCD R5-1, 18"			HIGH INTENSITY, PRISMATIC REFLECTIVE SHEETING
	2E	"EMPLOYEE PARKING ONLY" SIGN		LOCAL SUPPLIER				
	3A	ADA PARKING	1/L203	LOCAL SUPPLIER	CODE COMPLIANT	CODE COMPLIANT		
	3C	ADA DETECTABLE WARNING SURFACE	2/L203	WASAU TILE (715.259.3121), OAE	A-90, 24" X 24"	A-90, SRI 03	TRUNCATED DOMES, ADA COMPLIANT	
	3D	ADA RAMP	4/L203	LOCAL BATCH PLANT	N/A	NATURAL	MED. BROOM FINISH	
	4A	4" THERMOPLASTIC PARKING STRIPE		LOCAL SUPPLIER				
	4B	CROSSWALK, THERMOPLASTIC PAINT	1/L204	LOCAL SUPPLIER				
	4C	STOP BAR, THERMOPLASTIC PAINT	2/L204	LOCAL SUPPLIER				
	4D	DIRECTIONAL ARROW, THERMOPLASTIC PAINT		LOCAL SUPPLIER				
	5A	DUMPSTER ENCLOSURE WITH GATE	3/L203	LOCAL SUPPLIER		TO MATCH ARCHITECTURE	TBD	
	5B	6' HT. OPAQUE FENCE	1/L202	LOCAL SUPPLIER		TBD	TBD	
		SITE FURNITURE	40.00	DODGU OAF				
	F1	2 PORT EV CHARGING STATION	1/L205	BOSCH, OAE	EL-50650-GNTD-A	N/A	N/A	INSTALLATION BY QUALIFIED LICENSED ELECTRICIAN
	F2	DECORATIVE FOUNTAIN	0.4.005	TBD				
	F3	CANOPY WITH PERMANENT SEATING	3/L205	FLIVAV	LKAAOODD	EVEDODEEN.		
	F4	DRINKING FOUNTAIN WITH PET FOUNTAIN	4/L205	ELKAY	LK4420DB	EVERGREEN		
	F5 F6	LITTLE FREE LIBRARY ALL-WEATHER BULLETIN BOARD	2/L205	TBD PARK WAREHOUSE	ACMC31-3	GREEN		
	го	ALL-WEATHER BULLETIN BOARD	2/L200	FARR WAREHOUSE	ACMOST-S	GREEN		
	SYMBOL	BY OTHER CONSULTANTS						
	K1	ASPHALT PAVING	PER CIVIL					
	K2	STANDARD CURB & GUTTER	PER CIVIL					
	K3	HANDICAP SIGN	PER CIVIL					
	K4	SINGLE HANDICAP RAMP	PER CIVIL					
	0/44001	OTUED						
	PA	OTHER PLANTING AREA						
	TYP.	TYPICAL						
		- EXPANSION JOINT	4/L202					
		- SCORE JOINT	4/L202 4/L202					
		OPEN SPACE SET-ASIDE	TILLUL					
		10'x70' SIGHT TRIANGLE						

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ZEBULON, NC ALTY, LLC ARENDELL ZEBULON ZAH REALTY, 1620 N. AREN PROJECT NUMBER:

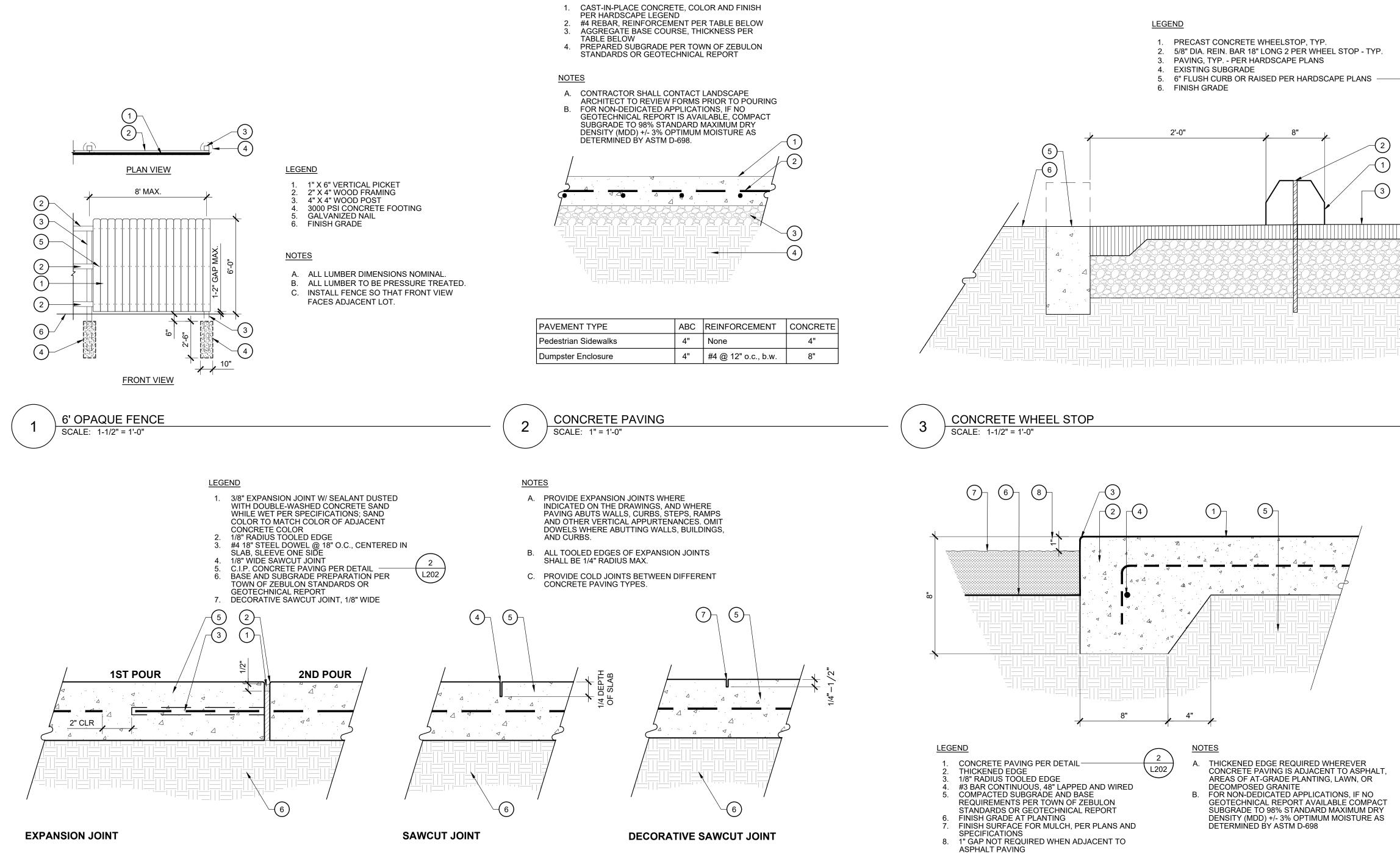
22091

project phase: SITE PLAN SUBMITTAL

DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER NCDOT REVIEW

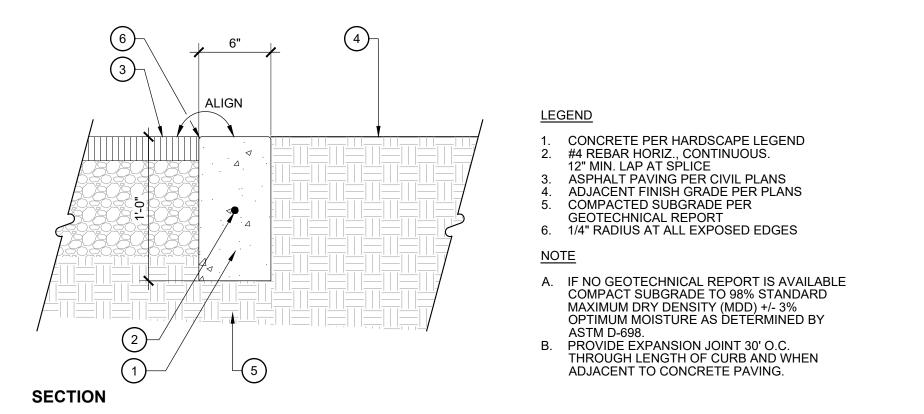
SHEET TITLE: HARDSCAPE LEGEND

SHEET NUMBER:



<u>LEGEND</u>





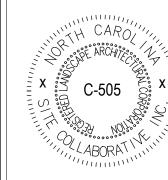
6" FLUSH CURB SCALE: 1-1/2" = 1'-0"

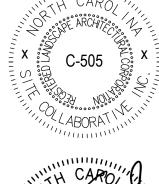
CONCRETE THICKENED EDGE

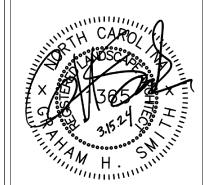
SCALE: 3" = 1'-0"

<u>LEGEND</u>

LANDSCAPE ARCHITECTURE 1620 Hillsborough St | Suite 100 Raleigh, NC 27605 919.805.3586







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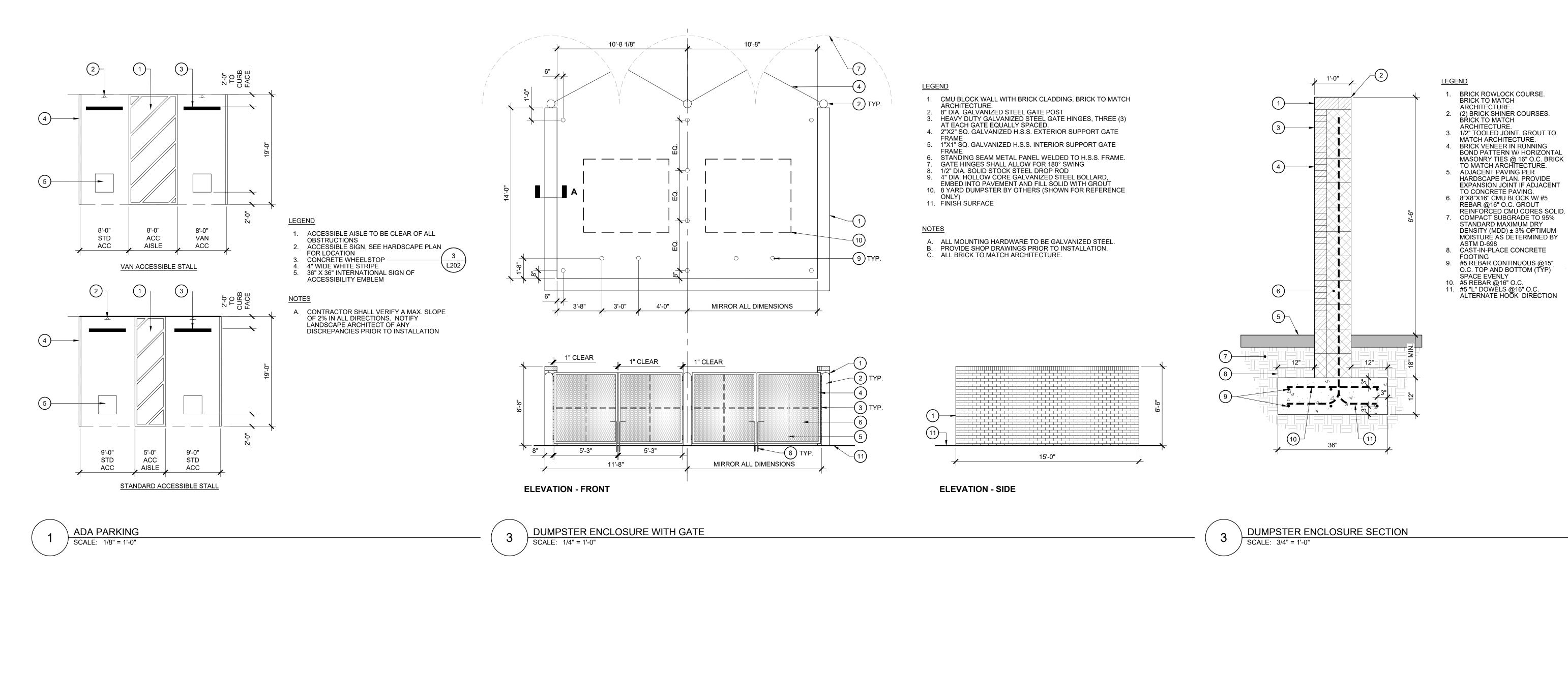
SITE PLAN SUBMITTAL

DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER

NCDOT REVIEW

SHEET TITLE: HARDSCAPE **DETAILS**

SHEET NUMBER:



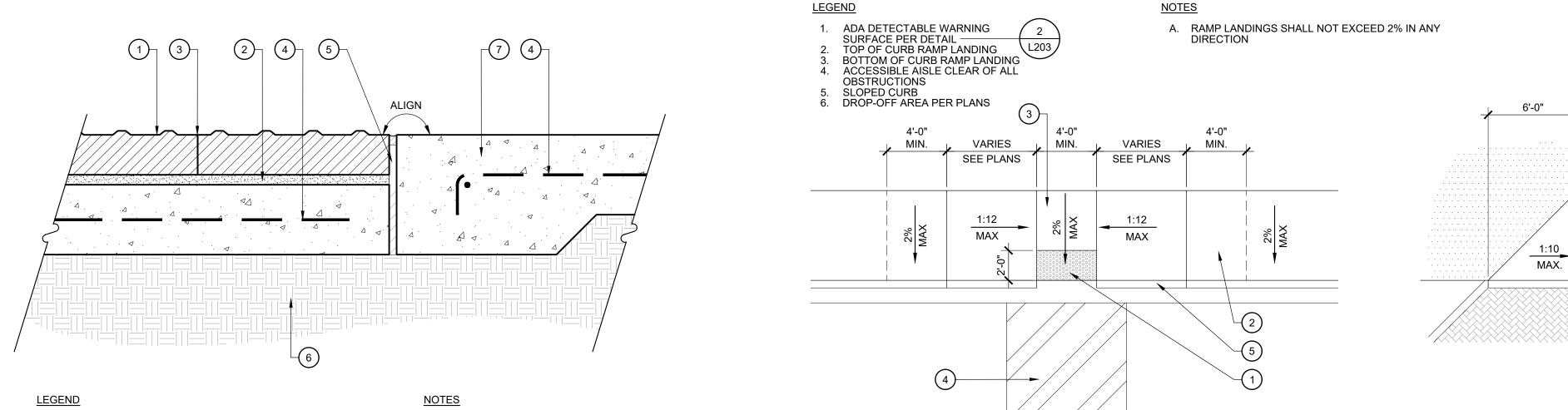
10'-9"

6

PLAN - PERPENDICULAR CURB RAMP

6'-0"

<u>1:10</u> MAX.



A. REFER TO HARDSCAPE PLAN AND LEGEND FOR LAYOUT AND PATTERN OF PAVERS.B. CONTRACTOR SHALL SUBMIT PAVER SAMPLE

APPROVAL PRIOR TO ORDERING AND INSTALLATION.

C. FINISH SURFACE OF DETECTABLE WARNING PAVENS SHALL BE LEVEL WITH ADJACENT

TO LANDSCAPE ARCHITECT FOR REVIEW AND



HARDSCAPE DETAILS

SHEET TITLE:

SHEET NUMBER:

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BULON,

NDELL

RE

9

7

PROJECT NUMBER:

22091

L203

RECOMMENDATION

BUTT JOINT BETWEEN PAVERS

GEOTECHNICAL REPORT EXPANSION JOINT PER DETAIL

GEOTECHNICAL REPORT

CONCRETE REINFORCEMENT PER

 PRECAST CONCRETE DETECTABLE WARNING PAVERS PER HARDSCAPE LEGEND
 MORTAR SETTING BED PER MANUFACTURER'S

BASE AND SUBGRADE PREPARATION PER TOWN OF ZEBULON STANDARDS OR

7. CONCRETE THICKENED EDGE PER DETAIL -

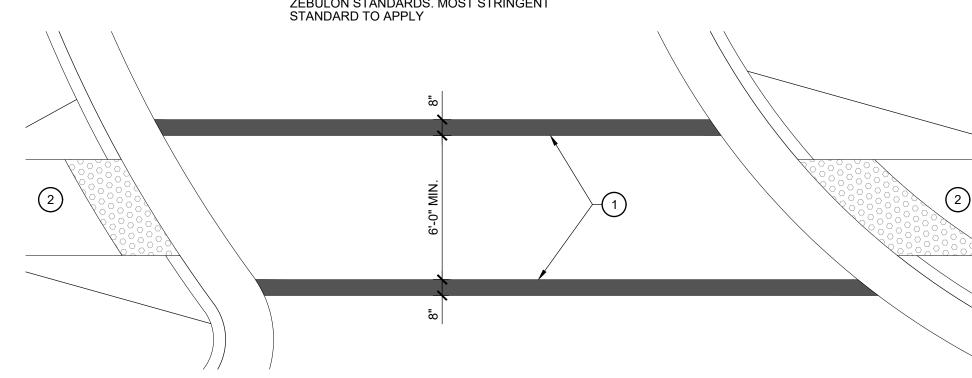
PLAN - PARALLEL CURB RAMP

LEGEND

8" WHITE, THERMOPLASTIC PAINT
 SIDEWALK PER SITE PLAN

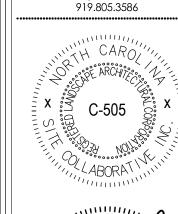
NOTES

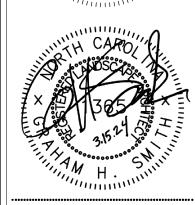
A. CROSSWALK TO MEET ALL NCDOT AND TOWN OF ZEBULON STANDARDS. MOST STRINGENT STANDARD TO APPLY



CROSSWALK
SCALE: 1/4" = 1'-0"

2 STOP BAR
SCALE: 1/4" = 1'-0"





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ZEBULON ANIMAL HOSPITAL
ZAH REALTY, LLC
1620 N. ARENDELL AVE., ZEBULON, NC

PROJECT NUMBER: 22091

PROJECT PHASE: SITE PLAN SUBMITTAL

SITE PLAN SUBMITTAL DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER NCDOT REVIEW

SHEET TITLE:

HARDSCAPE

DETAILS

L204



location

North America

► SAE J1772 charging connector is compatible with all EVs in Hardwire installation and protective bollard creates safe. tamper-proof setup ► Also available as EV860 Dual bollard charging station with two EV810 Series charging stations in a galvanized Item: 52ND57 Item: 61HP13

Mfr. Model: EL-50650-GNT-B Mfr. Model: EL-50650-GNTD-A GRAINGER 3D PERSPECTIVE

Med Double Sided W/ Posts Message Center THIS MATERIAL IS THE PROPERTY OF PARK WAREHOUSE AND SHOULD NOT BE REPRODUCED, PUBLISHED OR DISCLOSED TO OTHERS WITHOUT AUTHORIZATION AND SHALL NOT BE USED IN ANY WAY AGAINST OR DETRIMENTAL

SKU: ACMC31-3





Item: 36VZ36

power status, stop and reset functions

► Industry leading 4 year warranty

weatherproof for safe charging in

► SAE J1772 charging connector is

► Flexible mounting. Hardwire from back, top, or side. Can be fitted

GRAINGER.COM® | 1.800.GRAINGER

with included NEMA plug ► Movable, plug-in installation option allows charging when you need it, leaving an open outlet

ELKAY

SPECIFICATIONS

when not charging

3 year warranty

EV810 Series Level 2

► NEMA 4X-rated enclosure is

any weather or location

compatible with all EVs in North America

Charging Station

Non-Filtered Non-Refrigerated

Model LK4420DB

Elkay Outdoor Fountain Bi-Level Pedestal with Pet Station

PRODUCT SPECIFICATIONS Elkay Outdoor Fountain Bi-Level Pedestal with Pet Station, Non-Filtered Non-Refrigerated. Features shall include 316 Stainless, Heavy Duty Vandal Resistant, Pet Fountain. Furnished with Vandal Resistant bubbler. Mechanical Front Bubbler Button activation. Product shall be Floor Mount/Freestanding, for Outdoor applications, serving 2 station(s). Unit shall be lead-free design which is certified to NSF/ANSI 61 & 372 (lead free) and meets Federal and State low-lead requirements.

Special Features:	316 Stainless, Heavy Duty Vandal
opeoidi i catares.	Resistant, Pet Fountain
Finish:	Beige (BGE), Black (BLK), Blue (BLU), Brown (BRN), Evergreen (EVG), Gray (GRY), Orange (ORN), Purple (PUR), Red (RED), Terracotta (TER), White (WHT), Yellow (YLW)
Power:	No Electrical Required
Bubbler Style:	Vandal Resistant
Activation by:	Mechanical Front Bubbler Button
Mounting Type:	Floor Mount/Freestanding
Chilling Option:	Non-refrigerated
Dimensions (L x W x H):	31" x 26" x 40-5/16"
Approx. Shipping Weight:	170 lbs.
Installation Location:	Outdoor
	1

No. of Stations Served: 2 Mechanically-Activated bubbler continues to supply water in event of service disruptions.

Base material constructed from marine-grade 316 stainless steel provides the ultimate corrosion protection from even the most

Pet Fountain: Features slow drainage for easy drinking.

APPROVAL:

AMERICAN PRIDE. A LIFETIME TRADITION. Like your family, the Elkay family has values and traditions that endure. For almost a century, Elkay has been a family-owned and operated company, providing thousands of jobs that support our

Included with Product: Outdoor Fountain PRODUCT COMPLIANCE ADA & ICC A117.1 ASME A112.19.3/CSA B45.4 Buy American Act NSF/ANSI 61 & 372 (lead free)

Complies with ADA & ICC A117.1 accessibility requirements when installed ccording to the requirements outlined in these standards. Installation may equire additional components and/or construction features to be fully ompliant. Consult the local Authority Having Jurisdiction if necessary.

PART:_ PROJECT: CONTACT:_ DATE:_ NOTES:_

Warranty pertains to drinking water applications only. Nondrinking water applications are not covered under warranty. Warranty (PDF) **OPTIONAL ACCESSORIES**

Installation Instructions (PDF)

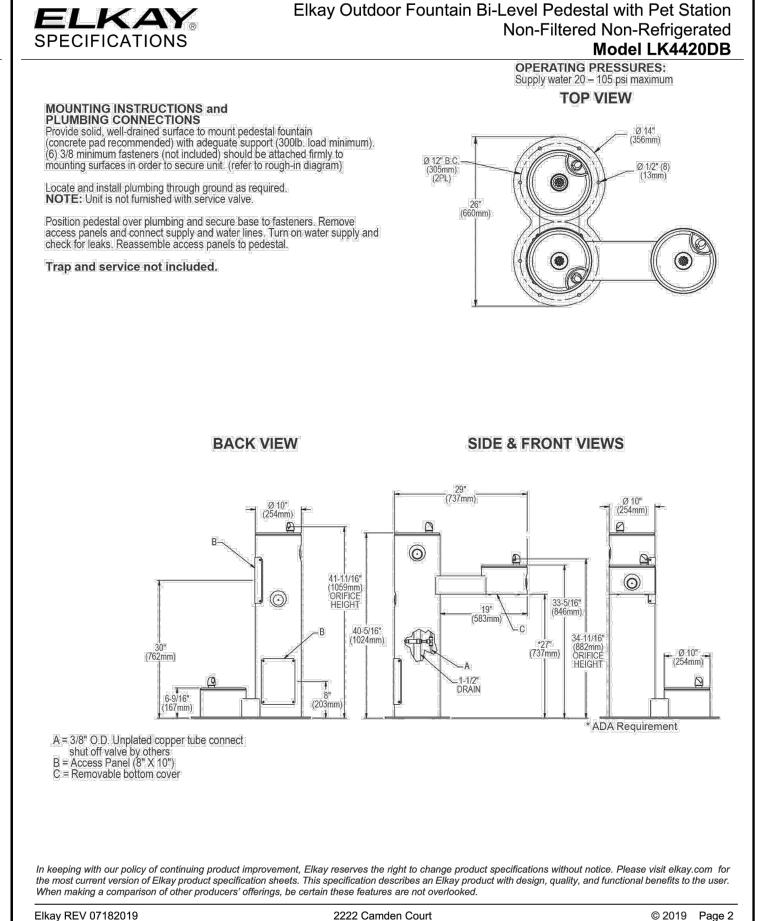
LK4471LHB - Locking Hose Bib

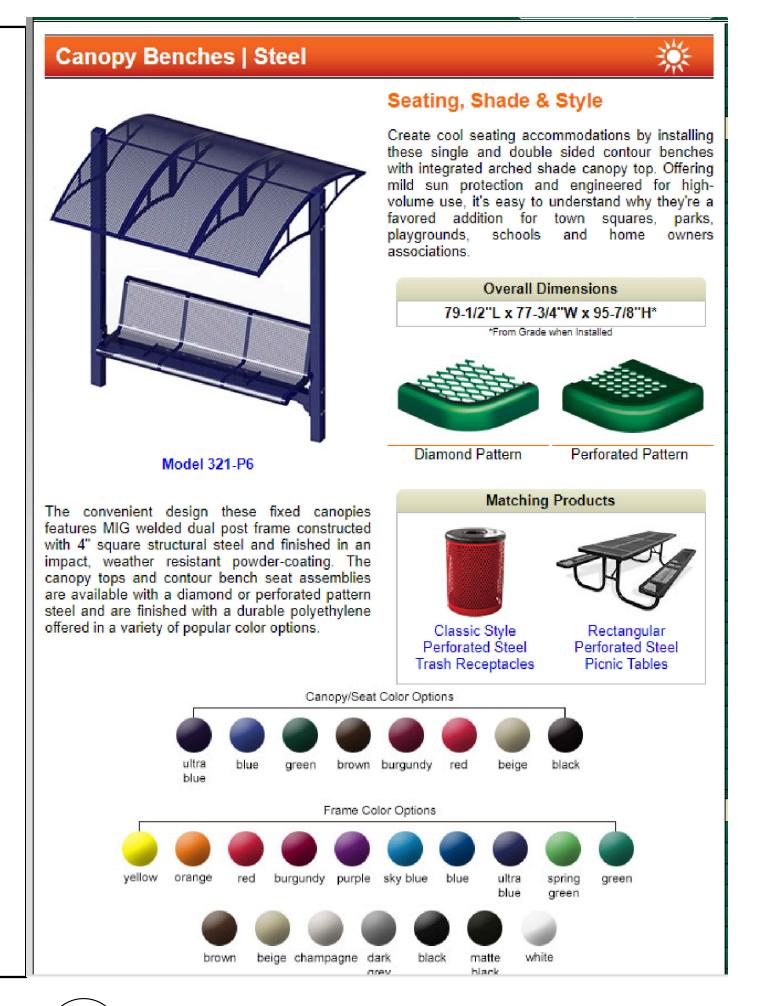
In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for

the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked. © 2019 Page 1

Elkay REV 07182019 2222 Camden Court WWW.RESTROOMDIRECT.COM 704+937+2673 129 Oakpark Dr., Unit A, Mooresville, NC 28115







CANOPY WITH PERMANENT SEATING SCALE: NTS

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BULON, 9 PROJECT NUMBER:

22091

SITE PLAN

SUBMITTAL DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER

NCDOT REVIEW

HARDSCAPE DETAILS

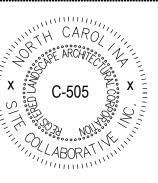
SHEET NUMBER:

GRADING NOTES

- CONTRACTOR TO FIELD VERIFY ALL INFORMATION AND REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 2. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 3. ALL PAVEMENTS TO SLOPE POSITIVELY AWAY FROM ALL BUILDINGS. PONDING OF WATER IS PROHIBITED.
- 4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL METHODS DURING CONSTRUCTION, AND THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
- 5. CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CITY OF RALEIGH EROSION AND SEDIMENT CONTROL MANUAL.
- 6. INSPECTOR REFERS TO AUTHORIZED REGULATORY AGENCY SEDIMENTATION AND EROSION CONTROL INSPECTOR OR HIS/HER REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR, CLIENT, AND/OR CLIENT'S REPRESENTATIVES.
- 7. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
- 8. DURING UNSUITABLE GROWING SEASONS, MULCH WILL BE USED AS A TEMPORARY COVER ON SLOPES THAT ARE 4:1 OR STEEPER, MULCH WILL BE ANCHORED.
- 9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. PLEASE CALL THE REGULATORY AUTHORITY FOR AN INSPECTION.
- INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES EVERY 7 DAYS AND AFTER EACH SIGNIFICANT RAINFALL (0.5 INCHES OR GREATER) AND DOCUMENT WITH INSPECTION REPORTS.
- 11. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- 12. LOCATE STOCKPILES UPSLOPE FROM EROSION CONTROL MEASURES. ALL SOIL STOCK PILES SHALL HAVE APPROPRIATE EROSION CONTROL PER THE LATEST VERSION OF THE CITY OF RALEIGH EROSION AND SEDIMENT CONTROL MANUAL INCLUDING SEEDING AND SILT FENCE AROUND THE BASE OF THE STOCK PILE.

GRADING LEGEND					
KEY	DESCRIPTION				
FG	FINISH GRADE				
MG	MEET EXISTING GRADE				
HP	HIGH POINT				
HPS	HIGH POINT OF SWALE				
LP	LOW POINT				
BS	BOTTOM OF STAIRS				
TS	TOP OF STAIRS				
BR	BOTTOM OF RAMP				
TR	TOP OF RAMP				
ВС	BOTTOM OF CURB				
TC	TOP OF CURB				
BW	BOTTOM OF WALL				
TW	TOP OF WALL				
	ACCESSIBLE ROUTE				
——TP ——	TREE PROTECTION FENCE				
LOD	LIMITS OF DISTURBANCE				







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ZAH REALTY, LLC

1620 N. ARENDELL AVE., ZEBULON, NC

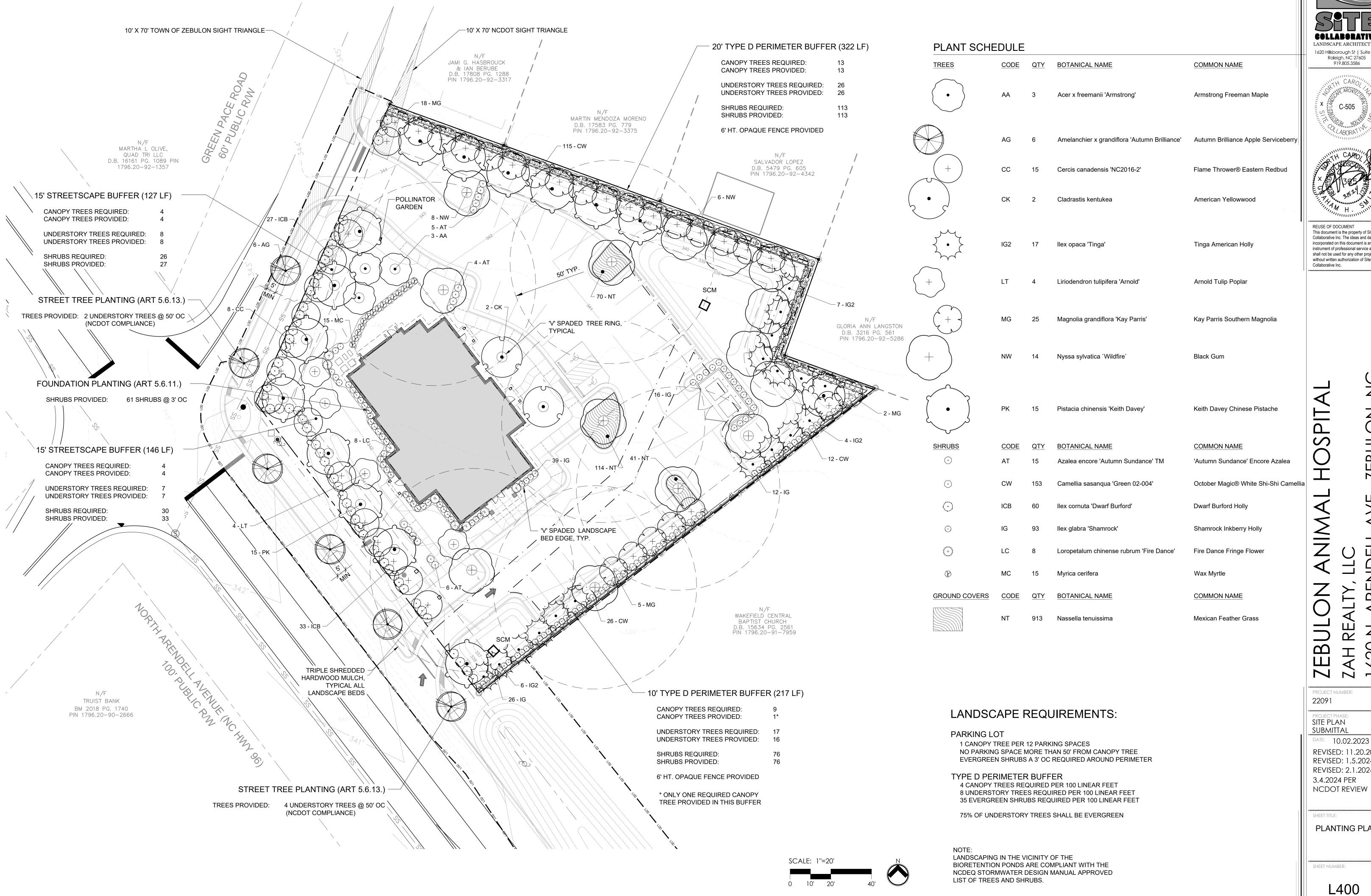
PROJECT NUMBER: 22091

PROJECT PHASE: SITE PLAN SUBMITTAL

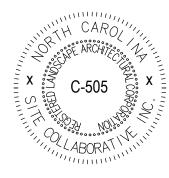
DATE: 10.02.2023 REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER

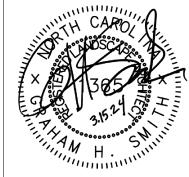
GRADING PLAN

NCDOT REVIEW



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REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024

PLANTING PLAN

PLANT SCHEDULE

	TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	B&B OR CONT.	SPACING (O.C.)	REMARKS
	•	AA	3	Acer x freemanii 'Armstrong'	Armstrong Freeman Maple	2 1/2"	8,	B&B	AS SHOWN	UTILITY ALLOCATION POLICY COMPLIANCE - CATEGORY 3
		AG	6	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Apple Serviceberry	1 1/2"	6`	B&B	AS SHOWN	
$\overline{}$	+	СС	15	Cercis canadensis 'NC2016-2'	Flame Thrower® Eastern Redbud	1 1/2"	4`	CONTAINER	AS SHOWN	
2		СК	2	Cladrastis kentukea	American Yellowwood	2 1/2"	8,	B&B	AS SHOWN	UTILITY ALLOCATION POLICY COMPLIANCE - CATEGORY 3
		IG2	17	llex opaca 'Tinga'	Tinga American Holly	1 1/2"	6`	B&B	AS SHOWN	
	+	LT	4	Liriodendron tulipifera 'Arnold'	Arnold Tulip Poplar	2 1/2"	8`	B&B	AS SHOWN	UTILITY ALLOCATION POLICY COMPLIANCE - CATEGORY 3
	+	MG	25	Magnolia grandiflora 'Kay Parris'	Kay Parris Southern Magnolia	1 1/2"	6`	B&B	AS SHOWN	
_		NW	14	Nyssa sylvatica `Wildfire`	Black Gum	2 1/2"	8`	B&B	AS SHOWN	
{		PK	15	Pistacia chinensis 'Keith Davey'	Keith Davey Chinese Pistache	2 1/2"	8`	B&B	AS SHOWN	
	SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	HEIGHT	SPREAD	SPACING (O.C.)	REMARKS
	(+)	AT	15	Azalea encore 'Autumn Sundance' TM	'Autumn Sundance' Encore Azalea	3 GAL.	18" MIN.	18" MIN.	AS SHOWN	
	(+)	CW	153	Camellia sasanqua 'Green 02-004'	October Magic® White Shi-Shi Camellia	3 GAL.	18" MIN.	18" MIN.	AS SHOWN	
	\odot	ICB	60	llex cornuta 'Dwarf Burford'	Dwarf Burford Holly	3 GAL.	18" MIN.	18" MIN.	AS SHOWN	
	\odot	IG	93	llex glabra 'Shamrock'	Shamrock Inkberry Holly	3 GAL.	18" MIN.	18" MIN.	AS SHOWN	
	3 + E	LC	8	Loropetalum chinense rubrum 'Fire Dance'	Fire Dance Fringe Flower	5 GAL.	24" MIN.	24" MIN.	AS SHOWN	
	\B	MC	15	Myrica cerifera	Wax Myrtle	3 GAL.	18" MIN.	18" MIN.	AS SHOWN	
	GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	HEIGHT	SPREAD	SPACING (O.C.)	REMARKS
		NT	913	Nassella tenuissima	Mexican Feather Grass	FLAT				

PLANTING NOTES

- ROUGH GRADING TO BE COMPLETED PRIOR TO THE START OF PLANT INSTALLATION. SUBSTANTIAL COMPLETION SIGN-OFF BY LANDSCAPE ARCHITECT CONTRACTOR TO ENSURE NO CHANNELIZED FLOWS AROUND THE SITE.
- 2. CONTRACTOR RESPONSIBLE FOR LOCATING ALL UTILITIES AND UNDERGROUND IMPEDIMENTS PRIOR TO BEGINNING PLANTING.
- 3. ALL WEEDS, NON-NATIVE INVASIVE SPECIES, AND EXOTIC SPECIES LOCATED WITHIN THE PROJECT CONTRACTOR LIMITS SHALL BE ELIMINATED PRIOR TO PLANTING BED CREATION, PLANTING, AND SEEDING/SODDING OPERATIONS.
- 4. PLANTING SHOULD OCCUR IMMEDIATELY AFTER CONSTRUCTION TO STABILIZE AREAS OF BARE SOIL.
- 5. IT SHALL BE NOTED THAT ALL SECTIONS OF THE SITE THAT ARE SLOPED 3:1 OR HIGHER WILL BE COVERED WITH EROSION CONTROL STABILIZATION COIR FABRIC (WITH 1" SQUARE OPENINGS) PRIOR TO PLANTING TO ENSURE IMMEDIATE STABILIZATION. LANDSCAPE CONTRACTOR SHALL CUT FABRIC AT EACH PLANT LOCATION AND PLACE PLANTS ACCORDING TO PLAN. ALL FABRIC SHALL BE RE-STAKED PER ENGINEERS ORIGINAL DRAWINGS IMMEDIATELY AFTER PLANTING.
- 6. PLANTS ARE TO BE PURCHASED BY BOTANICAL NAMES. THEY SHALL BE REPRESENTATIVE OF THEIR SPECIES, MEET ALL NOTED CONDITIONS OF SPECIFICATIONS, AND SHALL BE IN VIGOROUS GROWING CONDITION MEETING ANSI STANDARD Z60.
- 7. LANDSCAPE ARCHITECT OR OWNER MAINTAINS RIGHT TO REJECT ANY PLANT DUE TO AESTHETICS OR STRUCTURAL DEFICIENCY AT ANY TIME.
- 8. CONTRACTOR RESPONSIBLE FOR FURNISHING AND INSTALLING ALL PLANTS SHOWN ON PLANS IN LOCATIONS SHOWN. QUANTITIES GIVEN ON THE PLANT LEGEND ARE FOR CONTRACTOR'S CONVENIENCE ONLY. IF DISCREPANCIES OCCUR, THE PLANS SHALL OVERRULE THE PLANT LEGEND. CONTRACTOR SHALL LOCATE ALL PLANTS AWAY FROM KNOWN PERMANENT FIXTURES. IF CONFLICT ARISES WITH PLAN, CONTRACTOR SHALL NOTIFY PROJECT MANAGER OR DESIGNEE PRIOR TO PROCEEDING.
- 9. ALL PLANT MATERIAL SHALL CONFORM TO OR EXCEED THE AMERICAN STANDARD FOR NURSERY STOCK (LATEST EDITION) AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 10. ALL PLANT MATERIAL SHALL BE FREE OF ALL PESTS, DISEASES, AND CANKERS, IN HEALTHY CONDITION, AND FREE OF MECHANICAL DAMAGE AT THE TIME OF PLANTING.
- 11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE A HEALTHY AND VIABLE PLANT AND THE PLANT SHALL BE REJECTED IF DEEMED UNHEALTHY OR UNFIT AT ANY TIME DURING THE CONTRACT OR WARRANTY DURATION.
- 12. IF ANY PLANT/MATERIAL SUBSTITUTIONS ARE REQUESTED BY CONTRACTOR, THEN NOTICE SHALL BE GIVEN TO PROJECT MANAGER OR DESIGNEE AT MINIMUM SEVENTY-TWO (72) HOURS (NOT INCLUDING WEEKENDS) PRIOR TO DESIRED ORDERING DATE/TIME. WHEN SUBSTITUTIONS ARE REQUESTED BY CONTRACTOR, SUGGESTED ACCEPTABLE REPLACEMENTS SHALL ALSO BE PRESENTED AT TIME FOR FULL AND COMPLETE REVIEW BY LANDSCAPE ARCHITECT OR OWNER.
- 13. BALLED AND BURLAPPED PLANTS/TREES TO BE PLANTED PRIOR TO CONTAINER OR BEDDING PLANTS.
- 14. BALLED AND BURLAPPED MATERIAL SHALL COMPLY WITH THE FOLLOWING GUIDELINES:
- 14.1. TREES DESIGNATED B&B SHALL BE PROPERLY DUG WITH FIRM,
 NATURAL BALLS OF SOIL RETAINING AS MANY FIBROUS ROOTS AS
 POSSIBLE, IN SIZES AND SHAPES AS SPECIFIED IN THE AMERICAN
- STANDARD FOR NURSERY STOCK ANSI Z60.1.

 14.2. ROOT BALLS SHALL BE FIRMLY WRAPPED WITH NONSYNTHETIC, ROTTABLE BURLAP AND SECURED WITH NAILS AND HEAVY,
- NONSYNTHETIC TWINE.

 14.3. ROOT COLLAR SHALL BE APPARENT AT SURFACE OF BALL, OR THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXCESS SOIL FROM THE TOP OF THE ROOTBALL.
- 14.4. REMOVE ALL BURLAP, LACING, AND WIRE BASKET FROM AT LEAST THE TOP 1/2 OF THE ROOTBALL AND DISCARD FROM PLANTING HOLE. 14.5. DO NOT MANEUVER BY TRUNK. HANDLE BY ROOT BALL ONLY.
- 15. CONTAINERIZED PLANTS SHALL COMPLY WITH THE FOLLOWING GUIDELINES:
 15.1. MATERIAL SHALL HAVE FIRM. NATURAL BALLS OF SOIL RETAINING AS
- 15.1. MATERIAL SHALL HAVE FIRM, NATURAL BALLS OF SOIL RETAINING AS MANY FIBROUS ROOTS AS POSSIBLE, IN SIZES AND SHAPES AS SPECIFIED IN THE AMERICAN STANDARD FOR NURSERY STOCK ANSI
- 15.2. ROOT COLLAR SHALL BE APPARENT AT SURFACE OF BALL, OR THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXCESS SOIL FROM THE TOP OF THE ROOTBALL.
- 15.3. REMOVE CONTAINER PRIOR TO PLANTING.
- 16. TREES TO BE STAKED WILL BE DESIGNATED BY THE LANDSCAPE ARCHITECT. TREE STAKING FOR CANOPY AND LARGE EVERGREEN TREES SHALL NOT EXCEED 90 DAYS.
- 17. PLANT BED PREPARATION:
- 17.1. ALL PLANT BEDS ARE TO RECEIVE A MINIMUM OF 4" OF APPROVED TOPSOIL TILLED IN TO A DEPTH OF 8" TO ENSURE INTEGRATION WITH EXISTING SOIL.
- 17.2. APPROVED TOPSOIL IS TO BE PREFERABLY FROM ON-SITE STOCKPILE FROM STRIPPING OPERATIONS SEE EROSION AND SEDIMENT CONTROL PLANS.
- 17.3. IF ON-SITE TOPSOIL IS NOT AVAILABLE, CONTRACTOR SHALL PROVIDE TO SITE ACCORDINGLY.
- 18. ALL MULCH TO BE CERTIFIED TO BE FREE OF WEEDS, NON-NATIVE INVASIVE SPECIES AND THEIR LARVAE. MULCH SAMPLE SUBMITTAL SHALL BE PROVIDED TO LANDSCAPE ARCHITECT BEFORE SITE DELIVERY.

SEEDING/SODDING NOTES

- 1. ROUGH GRADING TO BE COMPLETED PRIOR TO THE START OF PLANT INSTALLATION. SUBSTANTIAL COMPLETION SIGN-OFF BY LANDSCAPE ARCHITECT CONTRACTOR TO ENSURE NO CHANNELIZED FLOWS AROUND THE SITE.
- 2. ALL SEEDED/SODDED AREAS SHALL BE FINISHED GRADE AT THE THICKNESS OF THE SOD.
- 3. NO SEEDED/SODDED AREAS SHALL BE SODDED UNTIL ALL OTHER CONSTRUCTION ACTIVITIES, INCLUDING PLANTING AND MULCHING HAVE OCCURRED AND LANDSCAPE ARCHITECT HAVE REVIEWED THE FINAL GRADING.
- 4. SOD AREAS WILL BE ACCEPTED WHEN IN COMPLIANCE WITH ALL THE FOLLOWING CONDITIONS:
- 4.1. ROOTS ARE THOROUGHLY KNIT TO THE SOIL
- 4.2. ABSENCE OF VISIBLE JOINTS
 4.3. ALL AREAS SHOW A UNIFORM STAND OF SPECIFIED GRASS IN
- HEALTHY CONDITION

 4.4. AT LEAST 30 DAYS HAVE ELAPSED SINCE THE COMPLETION OF WORK UNDER THIS SECTION.

5. QUALITY GUARANTEE:

- 5.1. SOD SHALL BE UNIFORM IN COLOR, LEAF TEXTURE, LEAF AND ROOD DENSITY, AND FREE FROM WEED, DISEASES, AND OTHER VISIBLE IMPERFECTIONS AT TIME OF FINAL ACCEPTANCE. GUARANTEE DOES NOT COVER DAMAGE AS A RESULT OF FERTILIZERS, PESTICIDES, OR OTHER APPLICATIONS NOT SUPERVISED BY THE CONTRACTOR OR AS A RESULT OF ACTS OF GOD OR VANDALISM.
- 5.2. SEED SHALL BE UNIFORM IN COLOR, LEAF TEXTURE, LEAF AND ROOT DENSITY, AND FREE FROM WEED, DISEASES, AND OTHER VISIBLE IMPERFECTIONS AT TIME OF FINAL ACCEPTANCE. GUARANTEE DOES NOT COVER DAMAGE AS A RESULT OF FERTILIZERS, PESTICIDES, OR OTHER APPLICATIONS NOT SUPERVISED BY THE CONTRACTOR OR AS A RESULT OF ACTS OF GOD OR VANDALISM.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SEED/SOD IS PROPERLY IRRIGATED DURING THE GROW-IN PERIOD AND SHALL BE RESPONSIBLE IF THE SOD SUFFERS IRREPARABLE HARM.
- 7. SEED/SOD IS SUBJECT TO INSPECTION AND ACCEPTANCE. LANDSCAPE ARCHITECT AND/OR CLIENT RESERVES THE RIGHT TO REJECT AT ANY TIME OR PLACE PRIOR TO ACCEPTANCE, ANY WORK AND SOD WHICH IN THE LANDSCAPE ARCHITECTS OPINION FAILS TO MEET THESE SPECIFICATIONS REQUIREMENTS.

8. SOD STANDARDS:

- 8.1. GENERAL: HEALTHY, THICK TURF HAVING UNDERGONE A PROGRAM OF REGULAR FERTILIZATION, MOWING AND WEED CONTROL; FREE OF OBJECTABLE WEEDS; UNIFORM IN GREEN COLOR, LEAF TEXTURE AND DENSITY; HEALTHY, VIGOROUS ROOT SYSTEM; INSPECTED AND FOUND FREE OF DISEASE, NEMATODES, PEST AND PEST LARVAE BY THE ENTOMOLOGIST OF THE STATE DEPARTMENT OF AGRICULTURE.
- THE ENTOMOLOGIST OF THE STATE DEPARTMENT OF AGRICULTURE.

 8.2. EACH PIECE OF SOD: SANDY-LOAM SOIL BASE THAT WILL NOT BREAK,
 CRUMBLE OR TEAR DURING SOD INSTALLATION.
- 8.3. THICKNESS: MINIMUM 3/4" THICK, EXCLUDING THE TOP GROWTH
- 8.4. THATCH: NOT TO EXCEED 1/2" UNCOMPRESSED.
- 8.4. THATCH: NOT TO EXCEED 1/2" UNCOMPRESSED.

 8.5. SIZE: CUT IN STRIPS 18" WIDE NO MORE THAN 24 HOURS PRIOR TO DELIVERY.
- 9. SOD DELIVERY, STORAGE AND HANDLING GUIDELINES ARE AS FOLLOWS:
 9.1. SOD SHALL BE DELIVERED ON PALLETS PROPERLY LOADED ON VEHICLES AND WITH ROOT SYSTEM PROTECTED FROM EXPOSURE TO SUN, WIND, AND HEAT IN ACCORDANCE WITH STANDARD PRACTICE AND LABELED WITH BOTANICAL AND COMMON NAME OF EACH GRASS SPECIES IN ACCORDANCE WITH FEDERAL SEED ACT. SOD THAT HAS BEEN DAMAGED BY POOR HANDLING OR IMPROPER STORAGE IS SUBJECT TO REJECTION BY THE LANDSCAPE
- ARCHITECT OR OWNER.

 9.2. PROTECT FROM DEHYDRATION, CONTAMINATION, FREEZING AND HEATING AT ALL TIMES. KEEP STORED SOD MOIST AND UNDER SHADE OR COVERED WITH MOISTENED BURLAP.
- 9.3. DO NOT DROP SOD ROLLS FROM CARTS, TRUCKS OR PALLETS.
- 9.4. DO NOT DELIVER MORE SOD THAN CAN BE INSTALLED WITHIN 36 HOURS.
- 9.5. DO NOT STACK SOD MORE THAN 2 FEET DEEP.

10. SEED/SODDED BED PREPARATION:

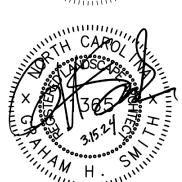
- 10.1. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED PRIOR TO SEEDING/SODDING OR PLANTING.
- 10.2. ALL AREAS TO BE SEEDED/SODDED ARE TO RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL TILLED INTO A DEPTH OF 4" TO ENSURE INTEGRATION WITH EXISTING SOIL.
- 10.3. APPROVED TOPSOIL IS TO BE PREFERABLY FROM ON-SITE STOCKPILE FROM STRIPPING OPERATIONS SEE EROSION AND SEDIMENT CONTROL PLANS.
- 10.4. IF ON-SITE TOPSOIL IS NOT AVAILABLE, CONTRACTOR SHALL PROVIDE TO SITE ACCORDINGLY.

SETE GOLLABORATIVE LANDSCAPE ARCHITECTURE 1620 Hillsborough St | Suite 100

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PROJECT NUMBER: 22091

PROJECT PHASE: SITE PLAN

SUBMITTAL

DATE: 10.02.2023

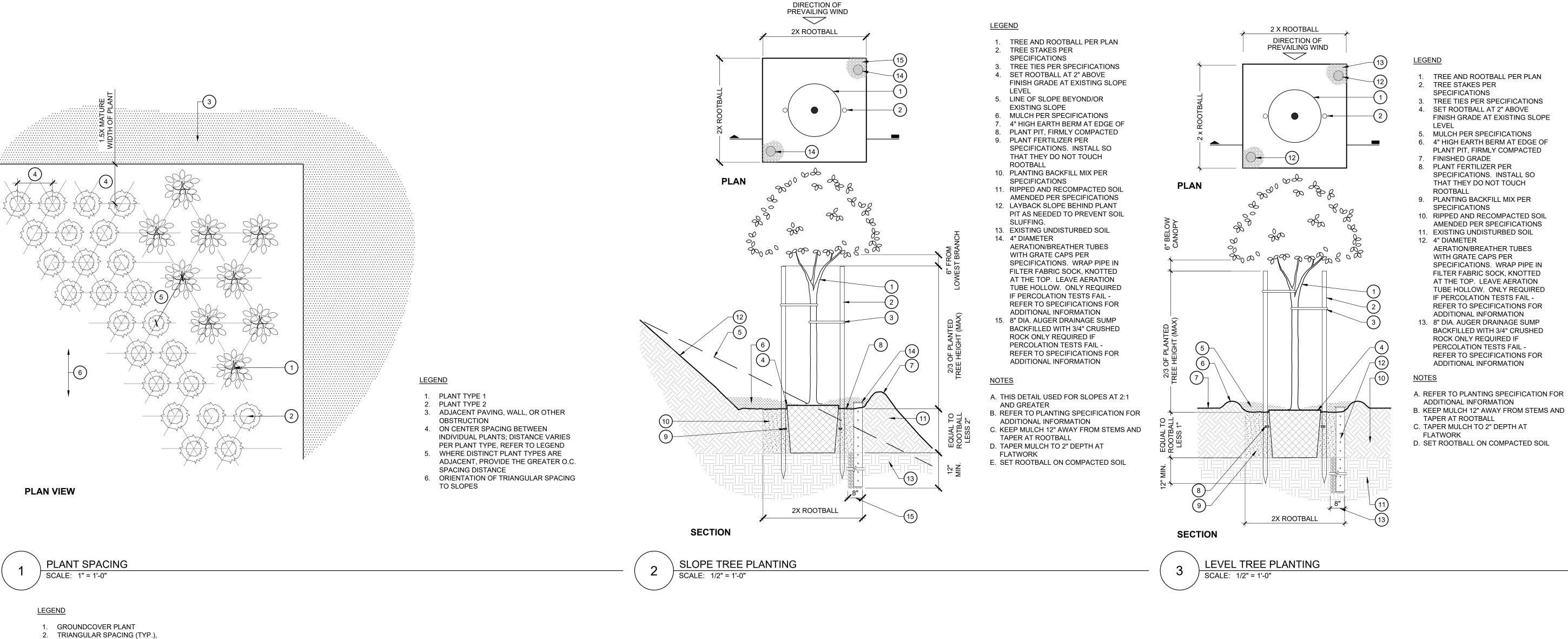
NCDOT REVIEW

REVISED: 11.20.2023 REVISED: 1.5.2024 REVISED: 2.1.2024 3.4.2024 PER

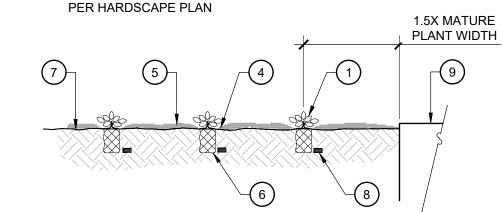
SHEET TITLE:
PLANT SCHEDULE

AND NOTES

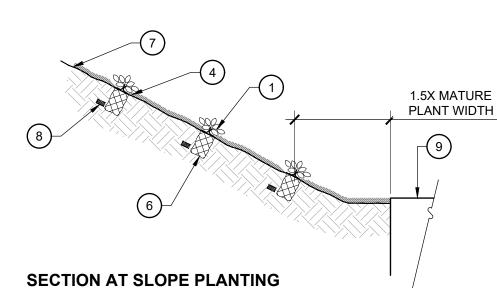
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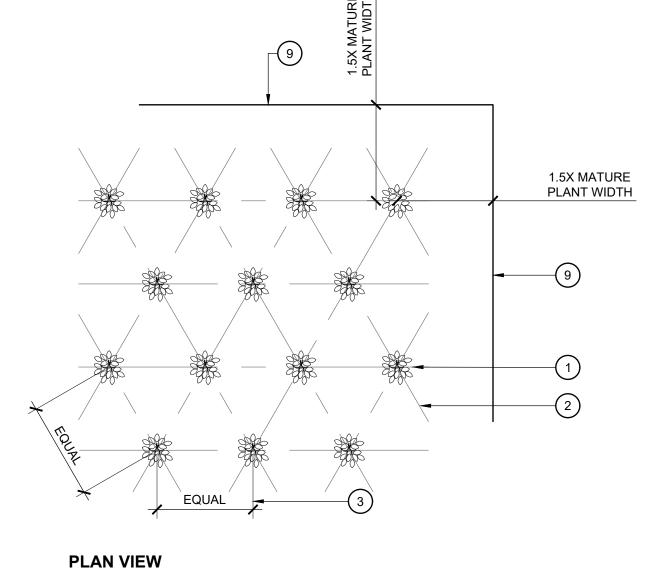


- UNLESS OTHERWISE SPECIFIED 3. SPACING INDICATED PER
- PLANTING LEGEND 4. SET ROOTCROWN ABOVE FINISH GRADE
- 5. MULCH PER SPECIFICATIONS
- 6. ROOTBALL 7. FINISH GRADE
- 8. PLANT FERTILIZER PER
- SPECIFICATIONS. INSTALL SO THAT THEY DO NOT TOUCH
- ROOTBALL 9. ADJACENT FINISHED SURFACE



SECTION AT FLAT AREAS

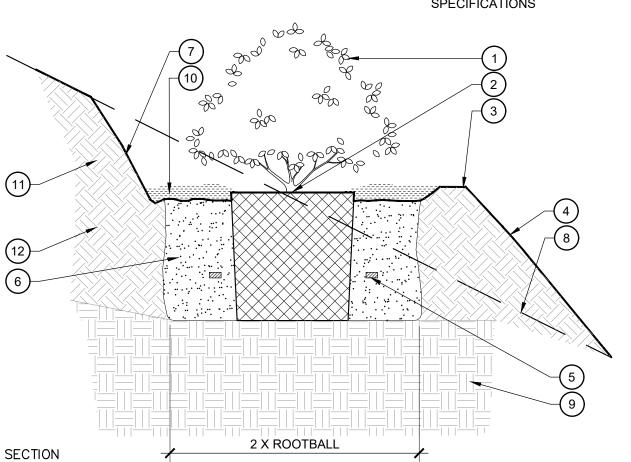




2. SET ROOTBALL CROWN 1" ABOVE FINISH GRADE 3. 6" TALL EARTH BERM @ EDGE OF PLANT PIT 4. FINISH GRADE 5. PLANT FERTILIZER PER SPECIFICATIONS. INSTALL SO THAT THEY DO NOT TOUCH ROOTBALL

1. SHRUB PER PLANS

<u>LEGEND</u>



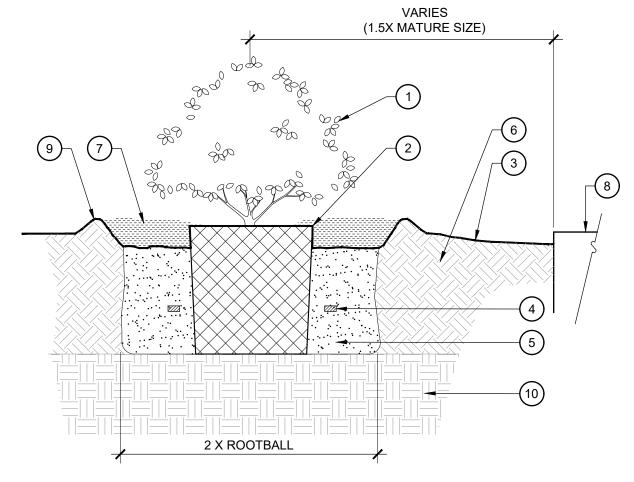
6. AMENDED BACKFILL MIX PER SPECIFICATIONS 7. LAYBACK SLOPE BEHIND PLANT

8. LINE OF SLOPE BEYOND 9. COMPACTED SUBGRADE PER

GEOTECHNICAL REPORT 10. MULCH PER SPECIFICATIONS; 11. KEEP MULCH 4" - 6" FROM TRUNK,

STEMS, AND TAPER AT

ROOTBALL 12. AMENDED PLANTING SOIL PER SPECIFICATIONS



<u>LEGEND</u>

- 1. SHRUB PER PLANS 2. SET ROOTBALL CROWN 1" ABOVE
- FINISH GRADE
- 3. FINISH GRADE 4. PLANT FERTILIZER PER
- SPECIFICATIONS. INSTALL SO THAT
- THEY DO NOT TOUCH ROOTBALL AMENDED BACKFILL MIX PER
- SPECIFICATIONS COMPACTED SUBGRADE PER
- GEOTECHNICAL REPORT MULCH PER SPECIFICATIONS;
- KEEP MULCH 4" 6" FROM TRUNK, STEMS, AND TAPER AT
- ROOTBALL 8. ADJACENT FINISHED SURFACE PER
- HARDSCAPE PLAN
- 9. 4" TALL EARTH BERM @ EDGE OF
- PLANT PIT, FIRMLY COMPACTED.

10. AMENDED PLANTING SOIL PER

SPECIFICATIONS

PLANTING DETAILS

PROJECT NUMBER:

SITE PLAN

SUBMITTAL

DATE: 10.02.2023

REVISED: 11.20.2023

REVISED: 1.5.2024

REVISED: 2.1.2024

3.4.2024 PER

NCDOT REVIEW

22091

COLLABORATIVE

LANDSCAPE ARCHITECTURE

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SHEET NUMBER:

SHEET TITLE:

L402

SLOPE SHRUB PLANTING SCALE: 1" = 1'-0"

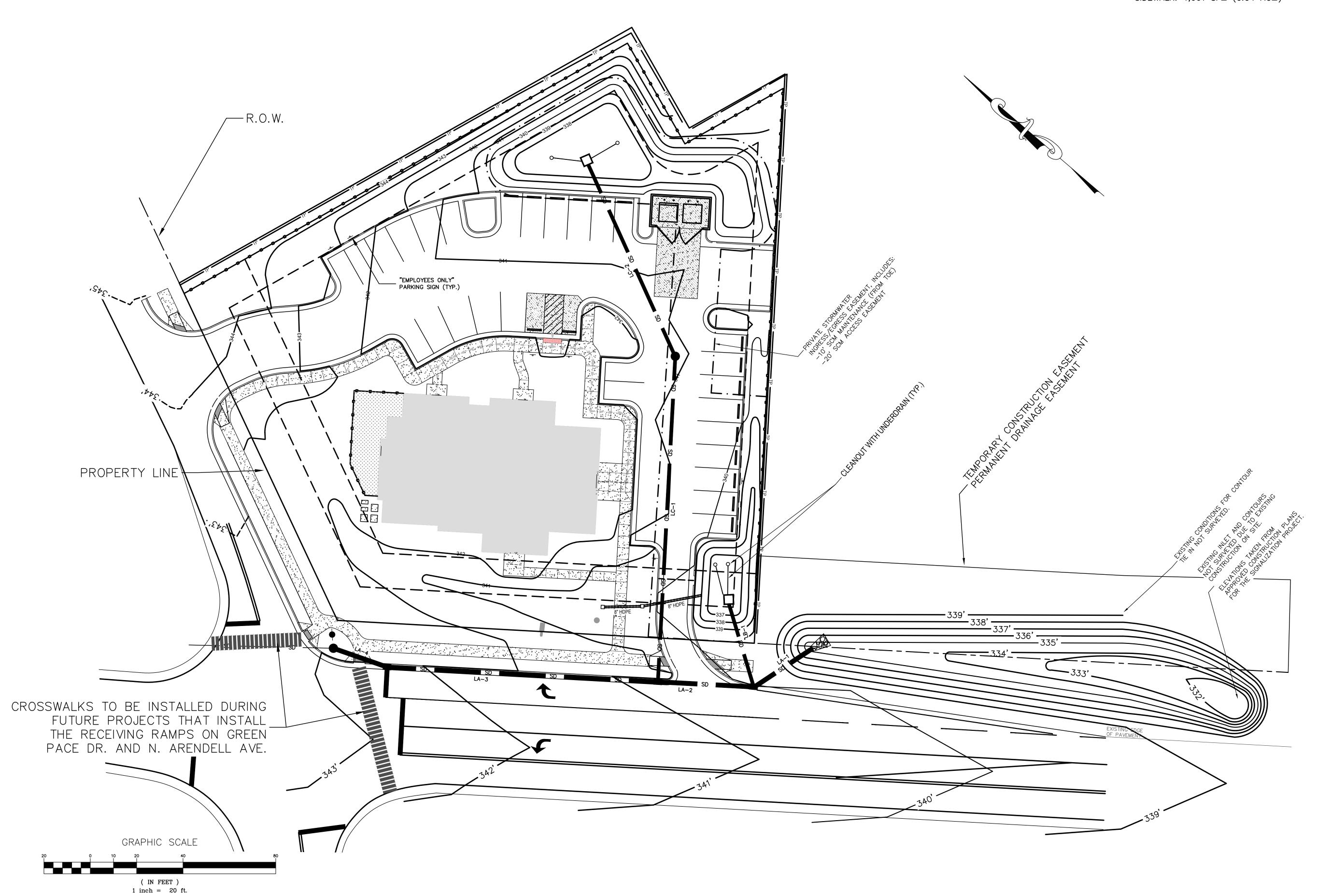
LEVEL SHRUB PLANTING SCALE: 1" = 1'-0"

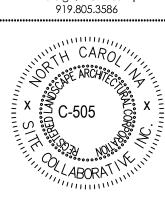
SECTION

GROUNDCOVER PLANTING SCALE: 1" = 1'-0"

IMPERVIOUS AREA BREAKDOWN

- ON SITE TOTAL IMPERVIOUS: TRANSPORTATION IMPERVIOUS: 16,802 SF± (0.39 AC±) BUILDING: 6,142 SF± (0.14 AC±) SIDEWALK: 2,332 SF± (0.05 AC±)
- OFF SITE ADDITIONAL IMPERVIOUS: TRANSPORTATION IMPERVIOUS: 5,018 SF± (0.12 AC±) SIDEWALK: 1,661 SF± (0.04 AC±)





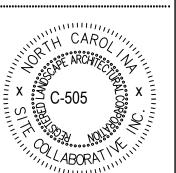


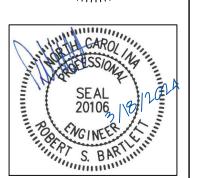
OVERALL PLAN

SHEET NUMBER:

OV1







ZEBULON ANIMAL HOSPITA

DVM SERVICES REALTY, LLC

PROJECT PHASE:

DATE: 03.18.2024

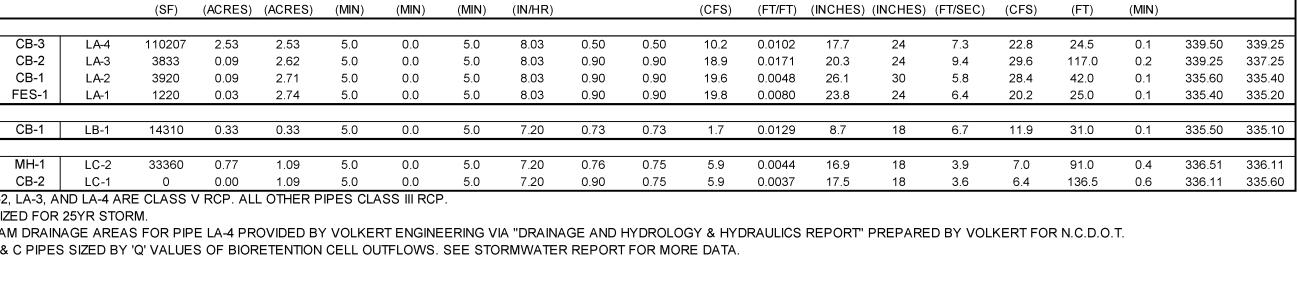
SHEET TITLE:
EXISTING
CONDITIONS AND
PROPOSED UTILITY

PLAN

SHEET NUMBER:

UP1

	STORM DRAIN SCHEDULE (10-YEAR STORM)
	n = 0.013 A to I Co Co Q10 FROM TO PIPE INLET INLET TOTAL INLET PIPE TIME OF INTENSITY RUNOFF RUNOFF DSCHRG SLOPE Dtheo SIZE Vfull Qfull LENGTH SEGMENT UPPER LOWER
	RUN AREA AREA AREA TIME TIME CONC COEFF COEFF (SF) (ACRES) (ACRES) (MIN) (MIN) (MIN) (IN/HR) (CFS) (FT/FT) (INCHES) (INCHES) (FT/SEC) (CFS) (FT) (MIN) LINE A MH-2 CB-3 LA-4 110207 2.53 2.53 5.0 0.0 5.0 8.03 0.50 0.50 10.2 0.0102 17.7 24 7.3 22.8 24.5 0.1 339.50 339.25 CB-3 CB-2 LA-3 3833 0.09 2.62 5.0 0.0 5.0 8.03 0.90 0.90 18.9 0.0171 20.3 24 9.4 29.6 117.0 0.2 339.25 337.25
	CB-2 CB-1 LA-2 3920 0.09 2.71 5.0 0.0 5.0 8.03 0.90 0.90 19.6 0.0048 26.1 30 5.8 28.4 42.0 0.1 335.60 335.40 CB-1 FES-1 LA-1 1220 0.03 2.74 5.0 0.0 5.0 8.03 0.90 0.90 19.8 0.0080 23.8 24 6.4 20.2 25.0 0.1 335.40 335.20 LINE B S. BIO CB-1 LB-1 14310 0.33 0.33 5.0 0.0 5.0 7.20 0.73 0.73 1.7 0.0129 8.7 18 6.7 11.9 31.0 0.1 335.50 335.10
The state of the s	LINE C N. BIO MH-1
344	*LINE A SIZED FOR 25YR STORM. *UPSTREAM DRAINAGE AREAS FOR PIPE LA-4 PROVIDED BY VOLKERT ENGINEERING VIA "DRAINAGE AND HYDROLOGY & HYDRAULICS REPORT" PREPARED BY VOLKERT FOR N.C.D.O.T. *LINES B & C PIPES SIZED BY 'Q' VALUES OF BIORETENTION CELL OUTFLOWS. SEE STORMWATER REPORT FOR MORE DATA.
	OUTLET STRUCTURE (OS-1) INV. OUT=336.5'
	PRELIMINARY PEAK FLOW REDUCTION PREDEVELOPED POST DEVELOPED
C/L INV.=339.83	RETURN EVENT PEAK RUN-OFF PEAK RUN-OFF REDUCTION (YEARS) (CFS) (CFS) (%)
EXISTING 24" RCP (CLASS III) NV. IN=340.18	10 3.91 3.14 19.7% 25 4.98 4.37 12.2%
EXISTING 24" RCP (CLASS III) INV IN = 340.3 NOT SURVEYED	* Note - 1 year post dev. peak run-off must not exceed 1 year pre-dev. peak run-off and 10 year and 25 year post dev. peak run-ff must be 10% less than 10 year and 25 year pre-dev. peak run-off
SIGNAL POLE (NOT SURVEYED)	STAGE-STORAGE (NORTH BIORETENTION CELL)
CONTRACTOR TO CONFIRM EXISTING CONDITIONS PROPOSED MANHOLE (MH-2) OUT (TYP.) EXISTING 24" RCP (CLASS III)	
INV IN=340.0 (NOT SURVEYED) PROPOSED INV. OUT = 339.5 CATCH BASIN (CB-3) LOWEST INV.=340.3	339 2305.0 1752.5 340 3420.0 4615.0
TOP= 342.85 GRATE=342.35 C/L INV= 339.25 ROOF DRAIN MANIFOLD TO MAINTAIN 0.5% SLOPE	STAGE-STORAGE (SOUTH BIORETENTION CELL)
MANIFOLD THROUGH TO BE 6" PVC PIPE SSTEM	ELEVATION AREA VOLUME (FEET) (FT^2) (FT^3)
C/L INV.=339.9	MANHOLE 1 (MH-1) TOP=341.35 NOAA Atlas 14, Volume 2, Version 3
342.	NOAA Atlas 14, Volume 2, Version 3 Location name: Zebulon, North Carolina, USA* Latitude: 35.8424°, Longitude: -78.3275° Elevation: 342 ft** * source: USGS POINT PRECIPITATION FREQUENCY ESTIMATES GM Bongin D. Martin B. Uin, T. Parzybok M. Yekta, and D. Riley.
	G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M.Yekta, and D. Riley NOAÄ, National Weather Service, Silver Spring, Maryland PF tabular PF graphical Maps & aerials PF tabular
	PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour) Duration Average recurrence interval (years)
CATCH BASIN (CB-2) TOP=341.30 GRATE=340.80 OUTLET STRUCTURE (CATCH BASIN (CB-2) (CATC	30-min (2.95-3.55) (3.44-4.12) (3.93-4.70) (4.43-5.31) (4.91-5.90) (5.30-6.40) (5.82-6.82) (5.90-7.21) (6.20-7.85) (6.45-8.04) (7.90-7.85)
INV. IN (NE)= 335.6 INV. IN (NW)= 337.25 INV. OUT (SE)=335.6	CATCH BASIN (CB-1) 1.38
3_{47}	FES-1 INV. OUT=335.2 Language
	PERMANENT DRAINAGE EASEMENT 3.day 0.048 0.058 0.073 0.085 0.101 0.115 0.129 0.144 0.165 0.183 0.079-0.091 0.094-0.109 0.094-0.109 0.094-0.109 0.194-0.179 0.163-0.198 0.094 0.094-0.109 0.094-0.109 0.094-0.109 0.094-0.109 0.094-0.109 0.194-0.179 0.163-0.198 0.094 0.095 0.094 0.095 0.094 0.095 0.0
	10-day (0.019-0.021) (0.022-0.026) (0.027-0.031) (0.031-0.035) (0.038-0.041) (0.044-0.046) (0.044-0.051) (0.049-0.067) (0.059-0.070) (0.059-0.070) (0.015-0.017) (0.015-0.017) (0.015-0.017) (0.015-0.020) (0.022-0.023) (0.023-0.026) (0.026-0.029) (0.028-0.032) (0.023-0.025) (0.031-0.035) (0.03
	## 45-day 0.009 0.011 0.013 0.014 0.015 0.016 0.015 0.
GRAPHIC SCALE	Please refer to NOAA Atlas 14 document for more information. Back to Top
20 0 10 20 40 80 (IN FEET)	
1 inch = 20 ft.	EXISTING CONDITIONS FOR CONTOUR THE IN MOT CURVEYED



PRELIMINARY PEAK FLOW REDUCTION							
	PREDEVELOPED	POST DEVELOPED)				
RETURN EVENT	PEAK RUN-OFF	PEAK RUN-OFF	REDUCTION				
(YEARS)	(CFS)	(CFS)	(%)				
1	1.12	0.25	77.7%				
2	1.70	0.81	52.4%				
10	3.91	3.14	19.7%				
25	4.98	4.37	12.2%				
			12.270				

	STAGE-STORA H BIORETENTI	
ELEVATION (FEET)	AREA (FT^2)	VOLUME (FT^3)
338	1200.0	0.0
339	2305.0	1752.5
340	3420.0	4615.0

STAGE-STORAGE (SOUTH BIORETENTION CELL)					
ELEVATION (FEET)	AREA (FT^2)	VOLUME (FT^3)			
337	355.0	0.0			
338	694.0	524.5			
339	1167.0	1451.3			

(SOUTH BIORETENTION CELL)					
ELEVATION (FEET)	AREA (FT^2)	VOLUME (FT^3)			
337	355.0	0.0			
338	694.0	524.5			
339	1167.0	1451.3			
_					

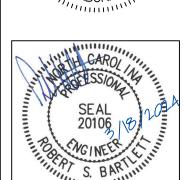
NOAA Atlas 14, Volume 2, Version 3 Location name: Zebulon, North Carolina, USA* Latitude: 35.8424°, Longitude: -78.3275° Elevation: 342 ft** *source: ESRI Maps **source: USGS	Com	
POINT PRECIPITATION FREQUENCY ESTIMATES		
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley		
NOAA, National Weather Service, Silver Spring, Maryland		
PE tabular I PE graphical I Mans & aerials		

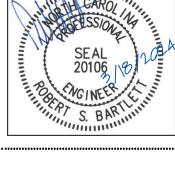
PF tabular | PF graphical | Maps & aerials PF tabular

1.342 (1-0.378) (1.200 (2-0.220)	0.405	5 6.36 (582-6.96) 5.09 (4.86-5.57) 4.30 (3.93-4.70) 3.05 (2.79-3.34) 1.96 (1.79-2.14) 1.16 (1.06-1.28) 0.823 (0.748-0.910) 0.450, 545, 545, 545, 545, 545, 545, 545,	10 7.20 (6.58-7.87) 5.76 (5.26-8.30) 4.86 (4.43-5.31) 3.52 (3.21-3.85) 2.29 (2.09-2.50) 1.38 (1.25-1.51) 0.984 (0.891-1.08)	25 8.03 (7.30-8.77) 6.40 (5.81-8.99) 5.41 (4.91-5.90) 4.00 (3.64-4.37) 2.67 (2.42-2.91) 1.18	50 8.72 (7.90-9.53) 6.95 (6.28-7.58) 5.86 (5.30-8.40) 4.41 (3.90-4.82) 2.99 (2.71-3.27) 1.87 (1.67-2.04)	100 9.34 (8.40-10.2) 7.42 (6.67-8.09) 6.25 (5.62-6.82) 4.79 (4.30-5.22) 3.30 (2.98-3.60) 2.09	200 9.90 (8.84-10.8) 7.85 (7.01-8.57) 6.60 (5.90-7.21) 5.14 (4.59-5.61) 3.60 (3.22-3.94) 2.32	500 10.5 (9.34-11.5) 8.33 (7.39-9.11) 6.99 (6.20-7.65) 5.56 (4.93-6.08) 3.99 (3.54-4.36)	1000 11.1 (9.78-12.2) 8.77 (7.70-9.61) 7.34 (6.45-8.04) 5.94 (6.22-6.51) 4.34 (3.81-4.75)
33-5-33) 3.88 314-4.25) 3.23 3.23 3.5-3.55) 2.21 1.2-2.43) 1.38 2.6-1.52) 3.607 31-0.893) 3.569 6-0.632) 3.342 1.38 3.342 3.342 3.342 3.342	(5.14-6.14) 4.48 (4.10-4.91) 3.76 (3.44-4.12) 2.60 (2.38-2.84) 1.63 (1.49-1.78) 0.955 (0.870-1.05) 0.674 (0.615-0.746) 0.405 (0.370-0.447)	(5.82-6.96) 5.09 (4.66-5.57) 4.30 (3.93-4.70) 3.05 (2.79-3.34) 1.96 (1.79-2.14) 1.16 (1.06-1.28) 0.823 (0.748-0.910) 0.495	(6.58-7.87) 5.76 (5.26-8.30) 4.86 (4.43-5.31) 3.52 (3.21-3.85) 2.29 (2.09-2.50) 1.38 (1.25-1.51) 0.984	(7.30-8.77) 6.40 (5.81-8.99) 5.41 (4.91-5.90) 4.00 (3.64-4.37) 2.67 (2.42-2.91) 1.63 (1.47-1.79)	(7.90-9.53) 6.95 (6.28-7.58) 5.86 (5.30-8.40) 4.41 (3.90-4.82) 2.99 (2.71-3.27) 1.87	(8.40-10.2) 7.42 (6.67-8.09) 6.25 (5.62-6.82) 4.79 (4.30-5.22) 3.30 (2.96-3.60)	(8.84-10.8) 7.85 (7.01-8.57) 6.60 (5.90-7.21) 5.14 (4.59-5.61) 3.60 (3.22-3.94)	(9.34-11.5) 8.33 (7.39-9.11) 6.99 (8.20-7.65) 5.56 (4.93-6.08) 3.99 (3.54-4.36)	(9.78-12.2) 8.77 (7.70-9.61) 7.34 (6.45-8.04) 5.94 (5.22-6.51) 4.34
3.23 3.23 3.5-3.55) 2.21 1.2-2.43) 1.38 26-1.52) 1.807 1.1-0.893) 1.569 6-0.632) 1.342 11-0.378) 1.200 1.2-0.220)	(4.10-4.91) 3.76 (3.44-4.12) 2.60 (2.38-2.84) 1.63 (1.49-1.78) 0.955 (0.870-1.05) 0.674 (0.615-0.746) 0.405 (0.370-0.447)	(4.86-5.57) 4.30 (3.93-4.70) 3.05 (2.79-3.34) 1.96 (1.79-2.14) 1.16 (1.06-1.28) 0.823 (0.748-0.910) 0.495	(5.26-6.30) 4.86 (4.43-5.31) 3.52 (3.21-3.85) 2.29 (2.09-2.50) 1.38 (1.25-1.51) 0.984	(5.81-8.99) 5.41 (4.91-5.90) 4.00 (3.64-4.37) 2.67 (2.42-2.91) 1.63 (1.47-1.79)	(6.28-7.58) 5.86 (5.30-8.40) 4.41 (3.98-4.82) 2.99 (2.71-3.27) 1.87	(6.67-8.09) 6.25 (5.62-6.82) 4.79 (4.30-5.22) 3.30 (2.96-3.60)	(7.01-8.57) 6.60 (5.90-7.21) 5.14 (4.59-5.61) 3.60 (3.22-3.94)	(7.39-9.11) 6.99 (6.20-7.65) 5.56 (4.93-6.08) 3.99 (3.54-4.36)	(7.70-9.61) 7.34 (6.45-8.04) 5.94 (5.22-6.51) 4.34
2.21 12-2.43) 1.38 16-1.52) 1.807 11-0.893) 1.569 16-0.632) 1.342 11-0.378) 1.200 12-0.220)	(3.44-4.12) 2.60 (2.38-2.84) 1.63 (1.49-1.78) 0.955 (0.870-1.05) 0.674 (0.615-0.746) 0.405 (0.370-0.447)	(3.93-4.70) 3.05 (2.79-3.34) 1.96 (1.79-2.14) 1.16 (1.05-1.28) 0.823 (0.748-0.910) 0.495	(4.43-5.31) 3.52 (3.21-3.85) 2.29 (2.09-2.50) 1.38 (1.25-1.51) 0.984	(4.91-5.90) 4.00 (3.84-4.37) 2.67 (2.42-2.91) 1.63 (1.47-1.79)	(5.30-6.40) 4.41 (3.99-4.82) 2.99 (2.71-3.27) 1.87	(5.62-6.82) 4.79 (4.30-5.22) 3.30 (2.96-3.60)	(5.90-7.21) 5.14 (4.59-5.61) 3.60 (3.22-3.94)	(6.20-7.65) 5.56 (4.93-6.08) 3.99 (3.54-4.36)	(6.45-8.04) 5.94 (5.22-6.51) 4.34
1.38 1.38 1.38 1.38 1.38 1.50 1.50 1.509 1.509 1.6-0.632) 1.342 1.0.378) 1.200 1.200	(2.38-2.84) 1.63 (1.49-1.78) 0.955 (0.870-1.05) 0.674 (0.615-0.746) 0.405 (0.370-0.447)	(2.79-3.34) 1.96 (1.79-2.14) 1.16 (1.06-1.28) 0.823 (0.748-0.910) 0.495	(3.21-3.85) 2.29 (2.09-2.50) 1.38 (1.25-1.51) 0.984	(3.64-4.37) 2,67 (2.42-2.91) 1.63 (1.47-1.79)	(3.99-4.82) 2.99 (2.71-3.27) 1.87	3.30 (2.96-3.60)	3.60 (3.22-3.94)	3.99 (3.54-4.36)	(5.22-6.51) 4.34
0.807 81-0.893) 0.569 (6-0.632) 0.342 (1-0.378) 0.200 (2-0.220)	(0.49-1.78) 0.955 (0.870-1.05) 0.674 (0.615-0.748) 0.405 (0.370-0.447)	(1.79-2.14) 1.16 (1.08-1.28) 0.823 (0.748-0.910) 0.495	(2.09-2.50) 1.38 (1.25-1.51) 0.984	(2.42-2.91) 1.63 (1.47-1.79)	(2.71-3.27) 1.87	(2.96-3.60)	(3.22-3.94)	(3.54-4.36)	
0.569 (6-0.632) 0.342 (1-0.378) 0.200 (32-0.220)	0.870-1.05) 0.674 (0.615-0.746) 0.405 (0.370-0.447)	(1.06-1.28) 0.823 (0.748-0.910) 0.495	(1.25-1.51)	(1,47-1,79)		2.09	222		100
(6-0.632) (342) (1-0.378) (200) (2-0.220)	(0.615-0.748) 0.405 (0.370-0.447)	(0.748-0.910) 0.495	G0000000000000000000000000000000000000	1.18		(1.86-2.29)	(2.08-2.54)	2.63 (2.31-2.88)	2.92 (2.53-3.20)
1-0.378) 1. 200 32-0.220)	(0.370-0.447)			(1.08-1.30)	1.36 (1.21-1.49)	1.53 (1.36-1.69)	1.72 (1.52-1.89)	1.98 (1.72-2.18)	2.22 (1.91-2.45)
32-0.220)	0.237	(4,400-0.545)	0.592 (0.538-0.651)	0.711 (0.642-0.780)	0.823 (0.738-0.901)	0.935 (0.831-1.02)	1.06 (0.929-1.15)	1.22 (1.06-1.33)	1.38 (1.18-1.51)
440	(0.217-0.261)	0.291 (0.266-0.320)	0.350 (0.318-0.384)	0.423 (0.383-0.463)	0.493 (0.442-0.538)	0,564 (0.501-0.615)	0.641 (0.563-0.698)	0.749 (0.646-0.815)	0.852 (0.724-0.928)
0.118 (0-0.128)	0.143 (0.133-0.155)	0.182 (0.169-0.197)	0.213 (0.197-0.230)	0.257 (0.237-0.278)	0,293 (0.269-0.317)	0.332 (0.302-0.358)	0,372 (0.337-0.403)	0.431 (0.387-0.467)	0.479 (0.428-0.521)
1.068 33-0.074)	0.082 (0.077-0.089)	0.104 (0.096-0.112)	0.121 (0.112-0.131)	0.145 (0.134-0.157)	0.165 (0.152-0.178)	0.186 (0.170-0.201)	0.208 (0.189-0.225)	0,240 (0.216-0.261)	0.266 (0.237-0.290)
1.048 (5-0.052)	0.058 (0.054-0.083)	0.073 (0.088-0.078)	0.085 (0.079-0.091)	0.101 (0.094-0.109)	0.115 (0.106-0.124)	0.129 (0.118-0.139)	0.144 (0.131-0.155)	0.165 (0.149-0.179)	0.183 (0.163-0.198)
.038 6-0.041)	0.046 (0.043-0.049)	0.057 (0.053-0.061)	0.066 (0.062-0.071)	0.079 (0.073-0.085)	0.090 (0.083-0.096)	0.101 (0.092-0.108)	0.112 (0.102-0.120)	0.128 (0.116-0.138)	0.141 (0.127-0.153)
. 025 (3-0.027)	0.030 (0.028-0.032)	0.037 (0.035-0.040)	0.043 (0.040-0.046)	0.051 (0.047-0.054)	0.057 (0.053-0.061)	0.064 (0.059-0.068)	0.071 (0.065-0.076)	0.080 (0.073-0.087)	0.088 (0.080-0.095)
.020 (9-0.021)	0.024 (0.022-0.026)	0.029 (0.027-0.031)	0.033 (0.031-0.035)	0.039 (0.036-0.041)	0.043 (0.040-0.046)	0,048 (0.044-0.051)	0.053 (0.049-0.057)	0.059 (0.054-0.064)	0.065 (0.059-0.070)
.013 (2-0.014)	0.016 (0.015-0.017)	0.019 (0.018-0.020)	0.021 (0.020-0.023)	0.025 (0.023-0.026)	0.028 (0.026-0.029)	0.030 (0.028-0.032)	0.033 (0.031-0.035)	0.037 (0.034-0.040)	0.040 (0.037-0.043)
0.011 (0-0.012)	0.013 (0.012-0.014)	0.015 (0.014-0.016)	0.017 (0.016-0.018)	0.019 (0.018-0.021)	0.021 (0.020-0.023)	0.023 (0.022-0.025)	0.025 (0.023-0.027)	0.028 (0.026-0.030)	0.030 (0.027-0.032)
. 009 9-0.010)	0.011 (0.010-0.011)	0.013 (0.012-0.013)	0.014 (0.013-0.015)	0.016 (0.015-0.017)	0.017 (0.016-0.018)	0.018 (0.017-0.020)	0.020 (0.019-0.021)	0,022 (0.020-0.023)	0.023 (0.021-0.024)
800.0 (900.0-8	0.010 (0.009-0.010)	0.011 (0.011-0.012)	0.012 (0.012-0.013)	0.014 (0.013-0.014)	0.015 (0.014-0.016)	0.016 (0.015-0.017)	0.017 (0.016-0.018)	0.018 (0.017-0.019)	0.019 (0.018-0.021)
133 1,1 15 1,1 1	L-0.074) 048 1-0.052) 038 1-0.041) 025 1-0.027) 020 1-0.021) 013 1-0.014) 011 1-0.012) 009 1-0.010) 008 1-0.009) 1-0.009) 1-0.009 1-0.009) 1-0.009 1-0.009) 1-0.009 1-0.009) 1-0.009 1-0.009) 1-0.009	-0.074 (0.077-0.089) -0.074 (0.077-0.089) -0.052 (0.064-0.063) -0.021 (0.03-0.049) -0.027 (0.028-0.032) -0.021 (0.028-0.032) -0.021 (0.022-0.026) -0.021 (0.015-0.017) -0.012 (0.012-0.014) -0.010 (0.010-0.011) -0.009 (0.009-0.010) -0.009 (0.099-0.010) -0.009 (PF) estimates thesis are PF estimate	0.074 (0.077-0.089 (0.096-0.112) 048	0.074 0.077-0.089 0.096-0.112 0.0112-0.131 0.048 0.058 0.073 0.085 0.064-0.063 0.068-0.073 0.079-0.091 0.085 0.064-0.063 0.068-0.073 0.079-0.091 0.085 0.064 0.057 0.066 0.057 0.066 0.053-0.061 0.062-0.071 0.025 0.030 0.037 0.043 0.025 0.030 0.037 0.043 0.025 0.030 0.037 0.043 0.025 0.030 0.037 0.031 0					

COLLABORATIVE LANDSCAPE ARCHITECTURE 821 Wake Forest Road Raleigh, NC 27604 | 919.805.3586







B PROJECT NUMBER:

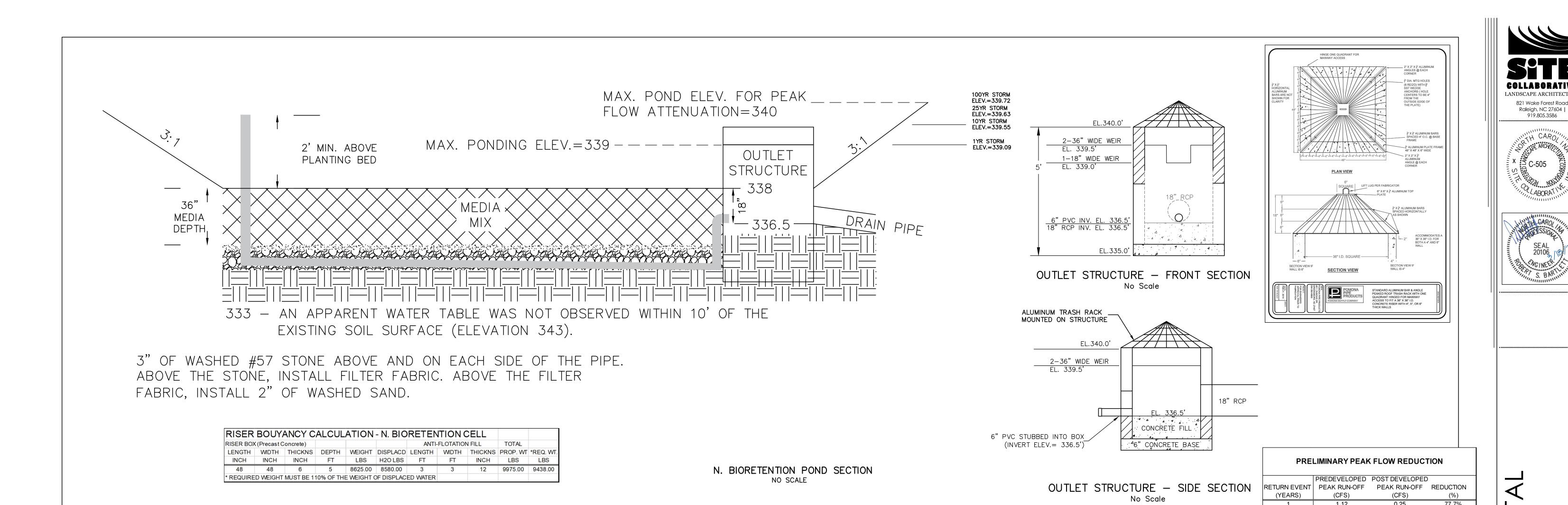
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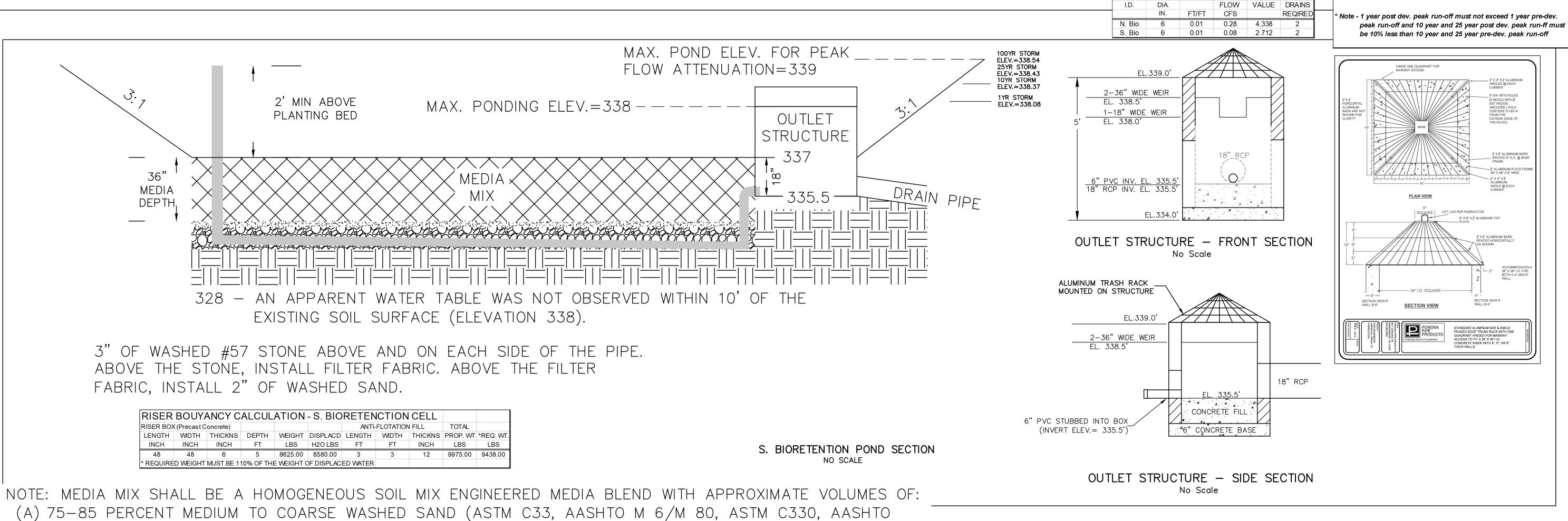
DATE: 03.18.2024

STORMWATER PLAN

SHEET NUMBER:

SW1





NOTE: BIORETENTION CELL DRAWDOWN IN ACCORDANCE WITH N.C.D.E.Q. M.D.C. FOR MEDIA MIX, MIN: 1 IN/HR.

M195, OR EQUIVALENT)

(B) 8-15 PERCENT FINES (SILT AND CLAY)

(C) 5-15 PERCENT ORGANIC MATTER (SUCH AS PINE BARK FINES)

NOTE: PLANTINGS FOR THE BIORETENTION CELLS SHALL ACHIEVE A MINIMUM OF 75 PERCENT PLANT COVERAGE AT FIVE YEARS AFTER PLANTING. IF SOD IS USED, THEN IT SHALL BE A NON-CLUMPING, DEEP-ROOTED SPECIES.

UNDERDRAIN CALCULATIONS

3.91

3.14

19.7% 12.2%

EBU

7

PROJECT NUMBER:

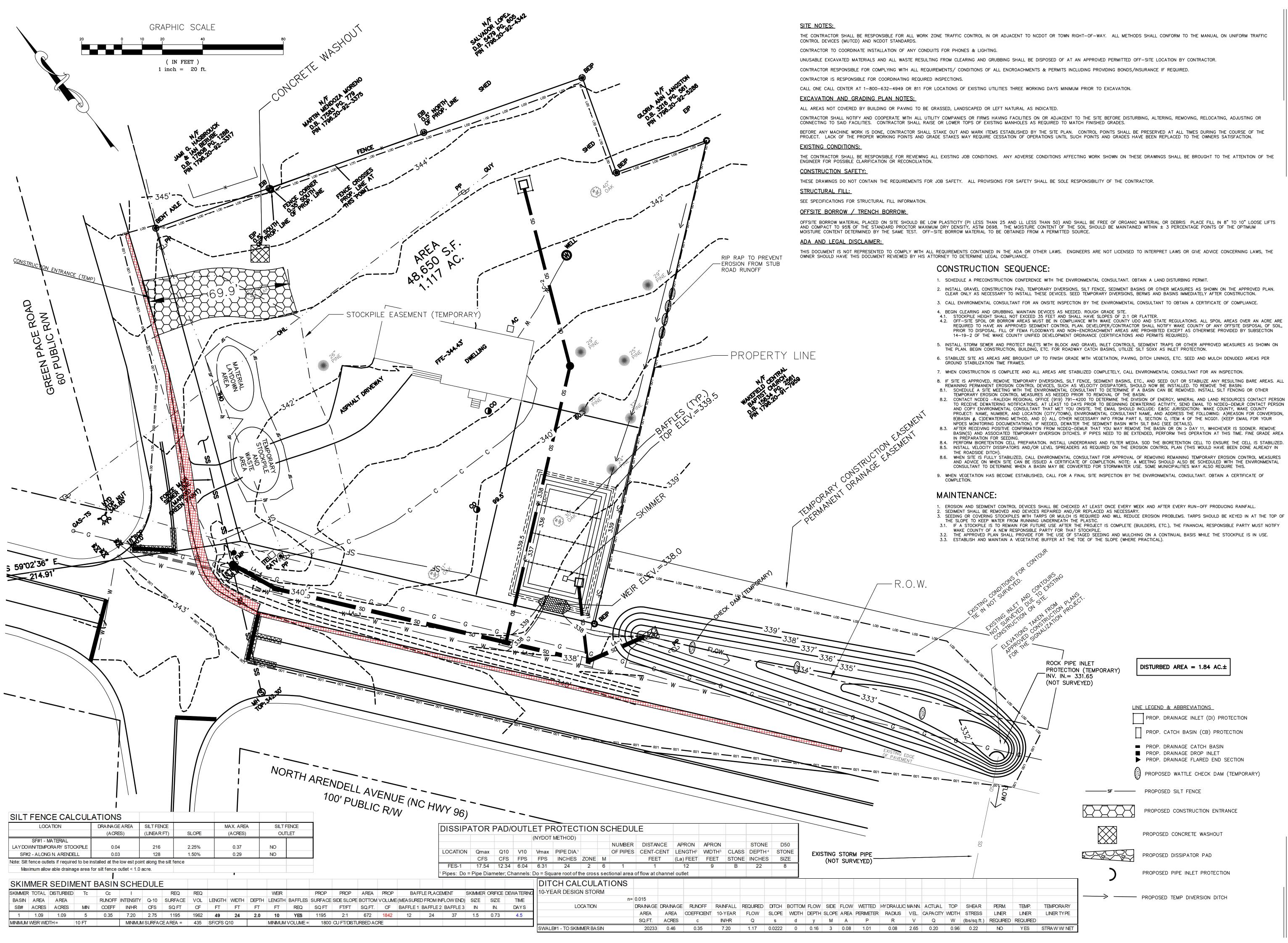
PROJECT PHASE:

DATE: 03.18.2024

BIORETENTION CELL

PLANS

SW2





SEAL 20106 & TOTAL S. BARTHING S. BARTHING

ZEBULON ANIMAL HOSPIT, DVM SERVICES REALTY, LLC

PROJECT PHASE:

SHEET TITLE:

SHEET NUMBER:

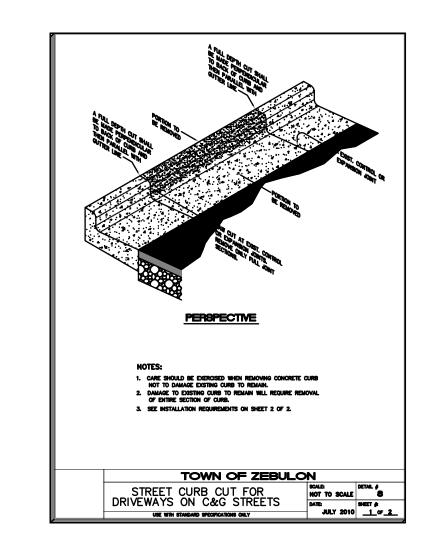
DATE: 03.18.2024

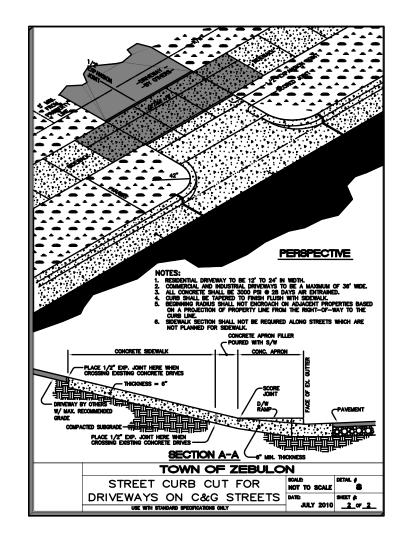
SEDIMENTATION AND

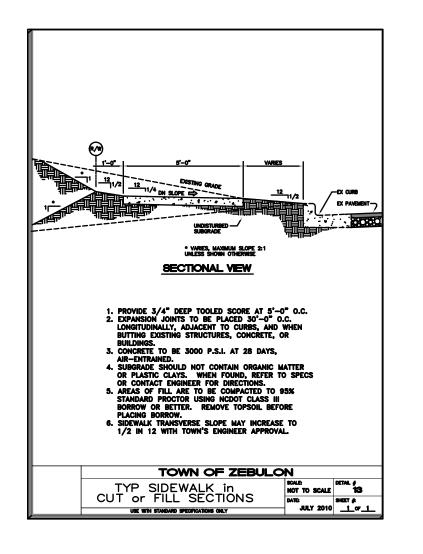
EROSION CONTROL

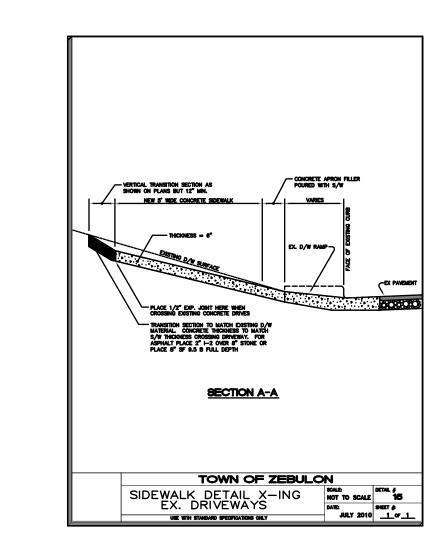
PLAN

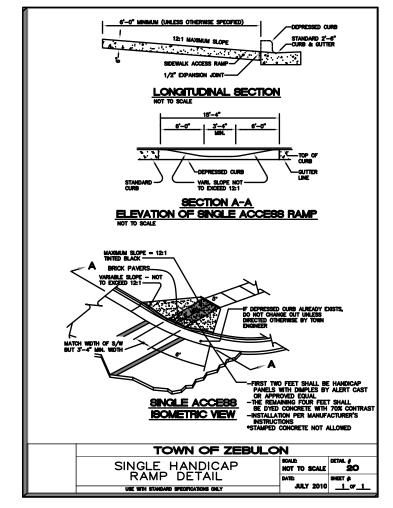
SE1

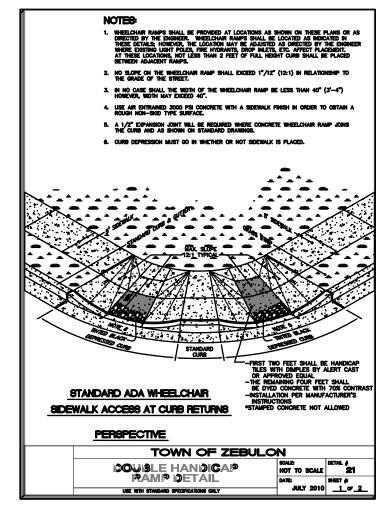


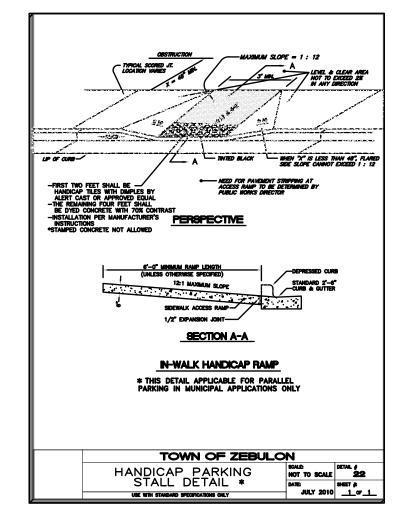


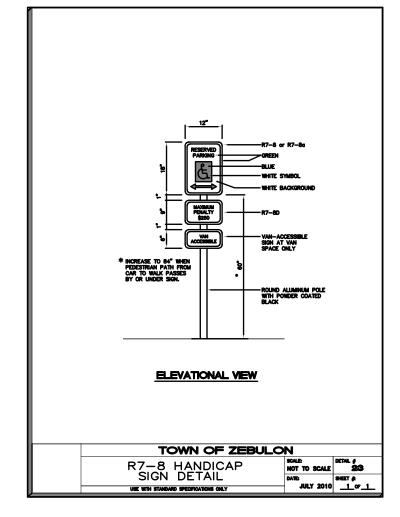


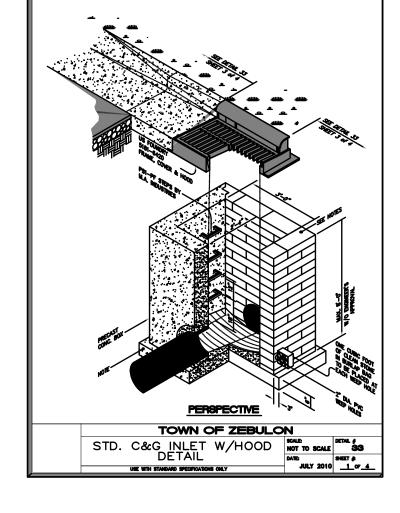












PLAN VIEW

SIDEWALK DETAIL X—ING
EX. DRIVEWAYS

USE WITH STANDARD SPECIFICATIONS ORLY

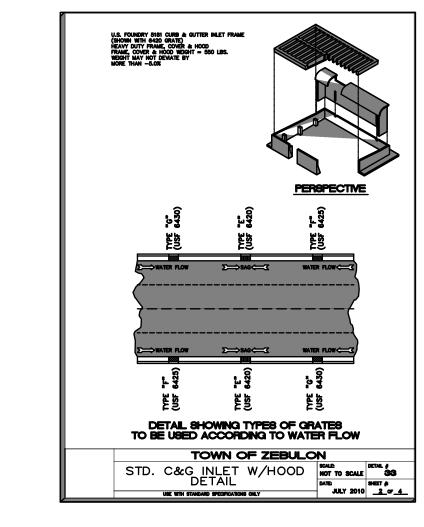
SIDEWALK DETAIL & DATE

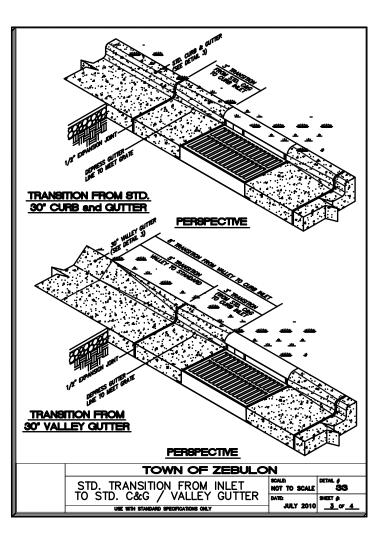
AULY 2010

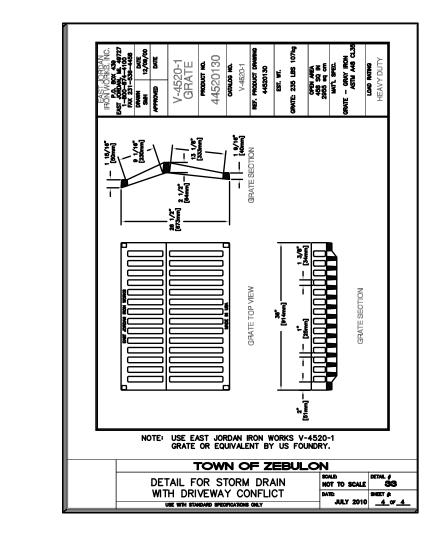
LOT 1.

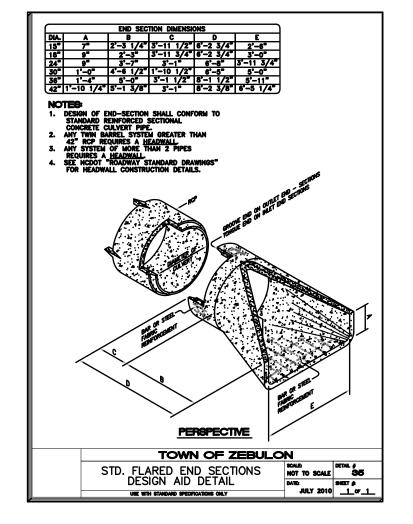
AS SHOWN ON PLAN BUT 12" MIN. -

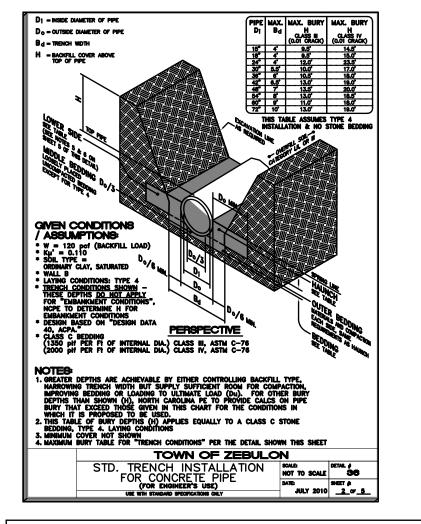
VERTICAL TRANSITION SECTION. PLACE CONCRETE AT CONCRETE DRIVES OR ASPHALT AT ASPHALT DRIVES





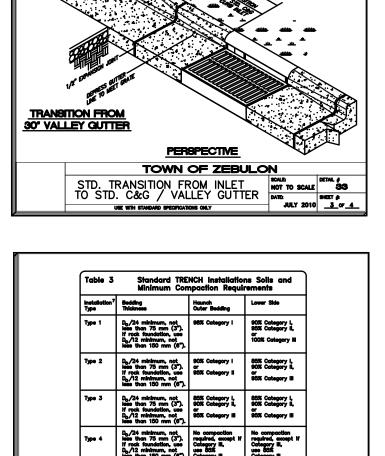






	Representative S	ioil Types	Percent Co	ompaction
SIDD Soil	USCS,	AASHTO	Standard Proctor	Modified Proctor
Gravelly Sand (Category I)	SW, SP, GW, GP	A1,A3	100 95 90 85 80 61	95 90 85 80 75 59
Sandy Silt (Category II)	GM, SM, ML Also GC, SC with less than 20% passing #200 sleve	A2,A4	100 95 90 85 80 49	95 90 85 80 75 46
Silty Clay (Category III)	CL, MH GC, SC	A5,A6	100 95 90 85 80 45	90 85 80 75 70 40
	СН		100 95 90 45	90 85 80 40
	TOWN		EBULO	N SCALE:

Table 2	Standard EMBANKME Compaction Requirer		and Minimum
Installation Type ⁴	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Туре 1	D _D /24 minimum, not less than 75 mm (3"). If rook foundation,use D _D /12 minimum, not less than 150 mm (6").	96% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	D _D /24 minimum, not les than 75 mm (3°). If rook foundation, use D _D /12 minimum,not less than 150 mm (6°).	90% Category I or 95% Category II	85% Category I, 90% Category II, or 95% Category III
Туре З	D ₀ /24 minimum, not less than 75 mm (3°). If rook foundation, use D ₀ /12 minimum, not less than 150 mm (6°).	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	D _D /24 minimum, not less than 75 mm (3"). If rook foundation, use D _D /12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except i Category III, use 85% Category III
	solis symbols — i.e. ":		
Compaction and material with a equivalent modification of the subtrenches of the subtrenche was compacted to the type 1 installation.	minimum standard Project Proctor values. Bedding, haunch, and ne, shall be compacte soil in the overfill zone defined as a trench wor roadways, its top it not the pavement baidth of a subtrench site attain the specified with wall of natural sall shall be at least a irements specified for in the overfill zone, or	lower side zones, of to at least the sa. Ith its top below fins at an elevation lose material. Ith its 133 Do or compaction in the soil, any portion of a firm as an equivate lower side zoner shall be removed audity material & highest compaction in the lower side zoner shall be removed.	98%. See Table except within DO me compaction ished grade by wer than 0.3 m wider if require haunch and because in the lower side and as firm a and replaced with compaction e
Compaction and material with a sequivalent modifical modern modification of the country of the subtrenches of the country of the subtrench is than 0.1 H or, to below the bottom. The minimum wadequate space zones. 3 For subtrench we compaction required modern required modern properties of the compaction required properties of the subtrench we compaction required the subtrench we compacted to the subtrench we compacted t	minimum standard Project Proctor values. bedding, haunch, and ne, shall be compacte soil in the overfill zone defined as a trench w for roadways, its top it n of the pavement bat dith of a subtrench si to attain the specified with wall of natural s all shall be at least as irements specified for in the overfill zone, or e specified level. on = relatively high q on = little or no contra	lower side zones, of to at least the sa. Ith its top below fins at an elevation lose material. Ith its 133 Do or compaction in the soil, any portion of a firm as an equivate lower side zoner shall be removed audity material & highest compaction in the lower side zoner shall be removed.	98%. See Table except within DO me compaction lished grade by wer than 0.3 m wider if requires haunch and bed the lower side 2 lent soll placed and as firm a and replaced with compaction electrons.
Compaction and material with a equivalent modification of the couter the pipe springili majority of the subtrenches A subtrenches A subtrench is than 0.1 H or, i below the botton. The minimum wadequate space zones. For subtrenches the subtrench water compaction required or the compaction required or the compaction of	minimum standard Project Proctor values. bedding, haunch, and ne, shall be compacte soil in the overfill zone defined as a trench w for roadways, its top it n of the pavement bat dith of a subtrench si to attain the specified with wall of natural s all shall be at least as irements specified for in the overfill zone, or e specified level. on = relatively high q on = little or no contra	lower side zones, of to at least the sa b. Ith its top below fins at an elevation to be material. The same side zone compaction in the soil, any portion of a firm as an equivathe lower side zone shall be removed unality material & high over material and	98%. See I except within me compaction ished grade wer than 0.3 wider if required haunch and the lower sich lent soil place and as firm and replaced in compaction



Notes:
1. Compaction and soils symbols — i.e. "98% Category I" refers to Category I soil materials with minimum standard Proctor compaction of 98%. See Table 1 for

materials with minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.

2. The trench top elevation shall be no lower than 0.1 H below finished grade or, for roadways, its top shall be no lower than an elevation of 0.5 m (1") below the bottom of the pavement base material.

3. Soil in bedding and haunch zones shall be compacted to at least the same compaction as specified for the majority of soil in the backfill zone.

4. The trench width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zone.

5. For trench walls that are within 10 degrees of vertical, the compaction or firmness of the soil in the trench walls and lower side zone need not be considered.

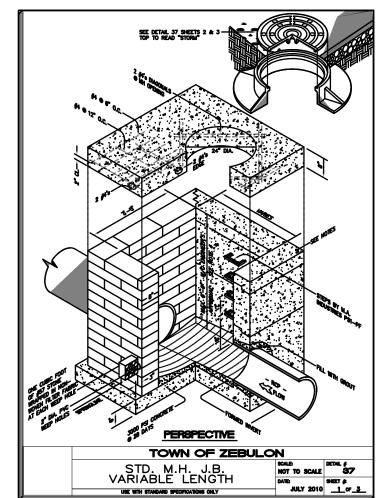
6. For trench walls with greater than 10 degrees slopes that consist of embankment, the lower side shall be compacted to at least the same compaction as specified for the soil in the backfill zone.

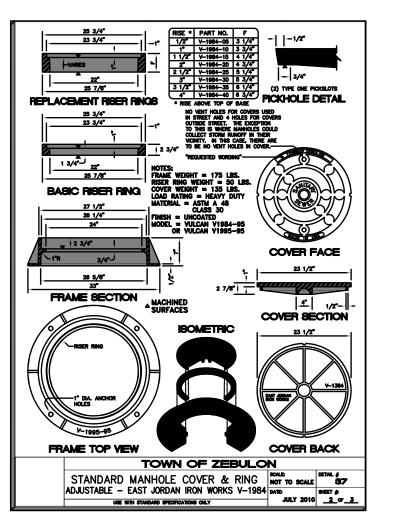
7. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.

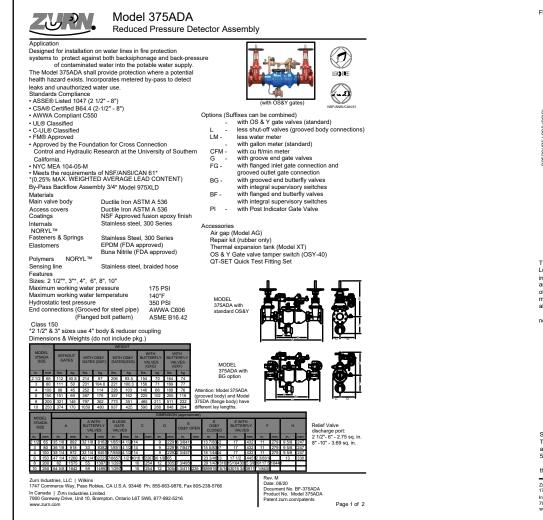
STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

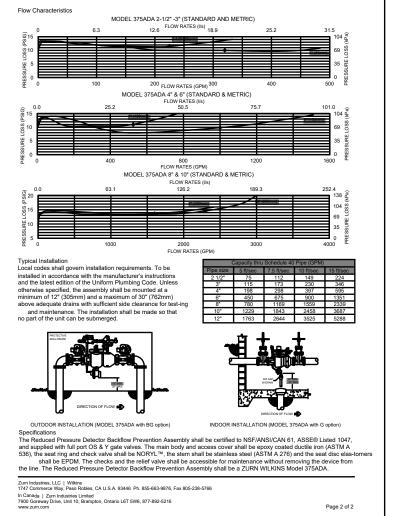
USE WITH STANDARD SPECIFICATIONS ONLY

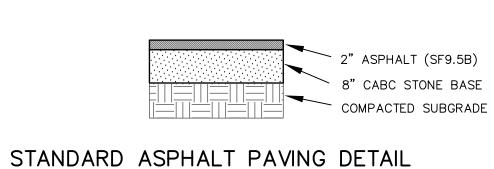
SOURCE FOR STANDARD SPECIFICA





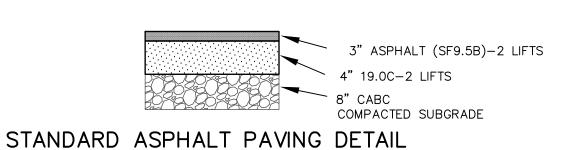






(PARKING LOT)
NO SCALE

(N. ARENDELL)
NO SCALE





DT1

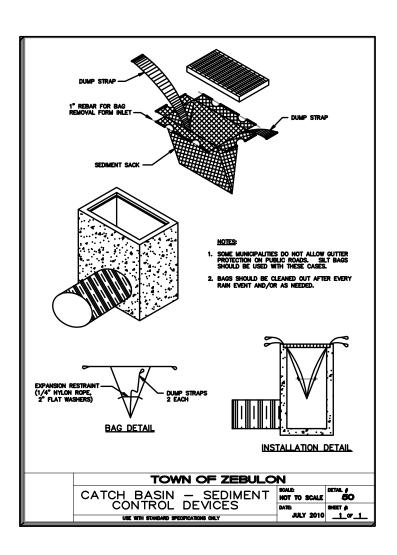
COLLABORATIVE

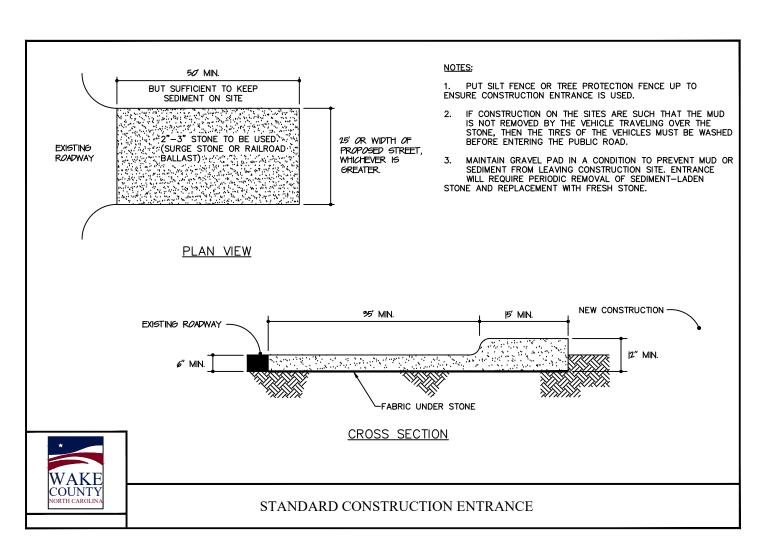
821 Wake Forest Road Raleigh, NC 27604

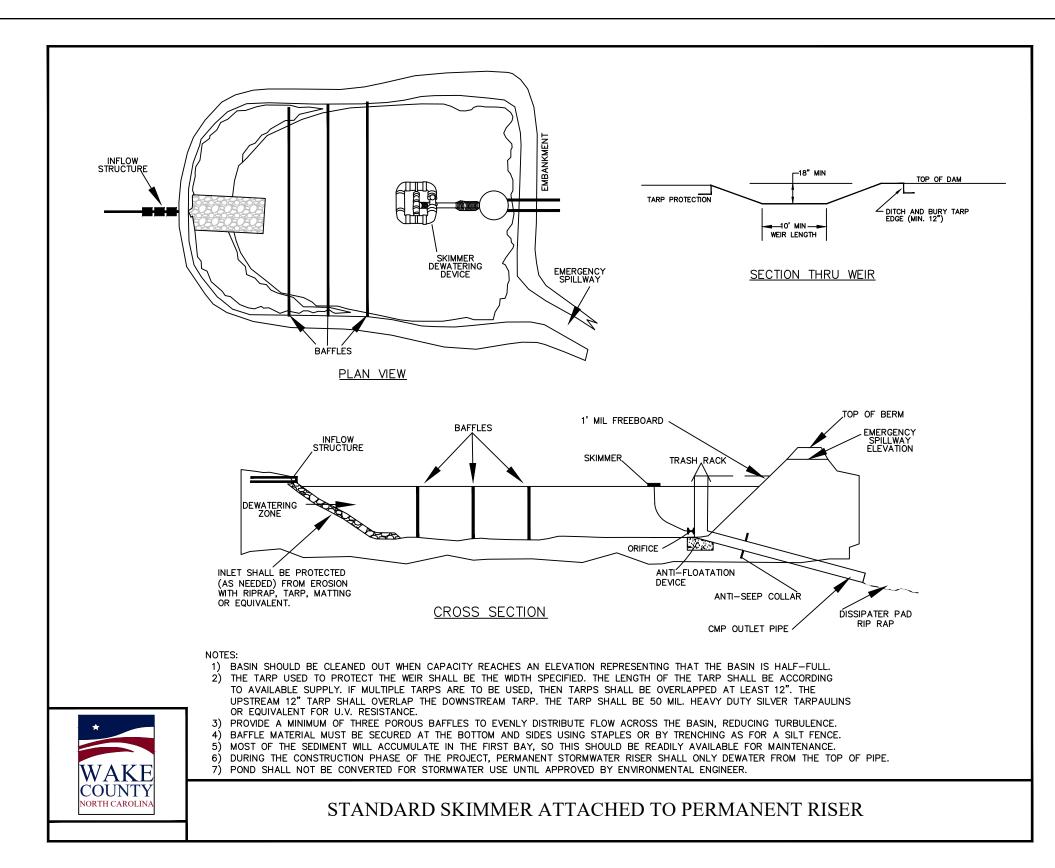
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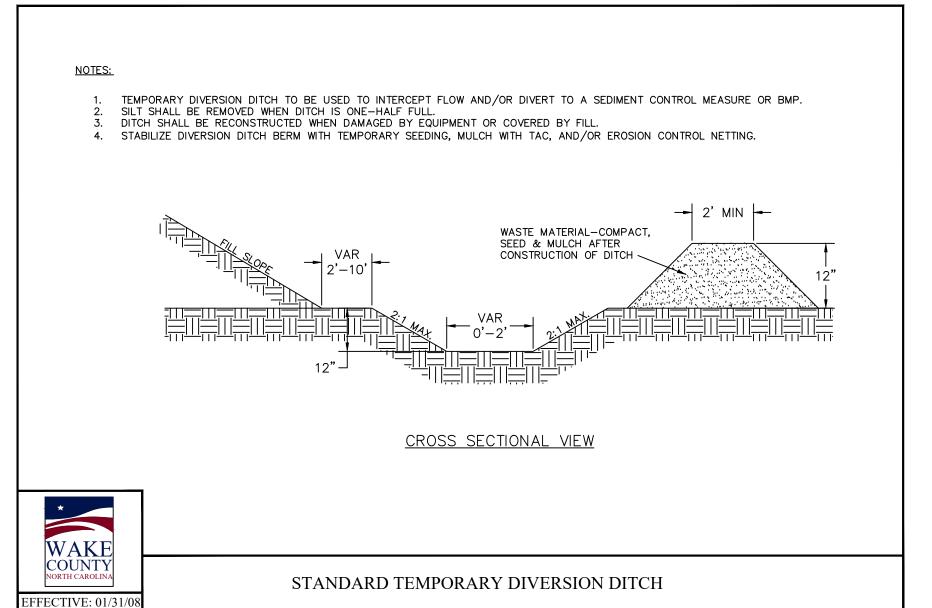
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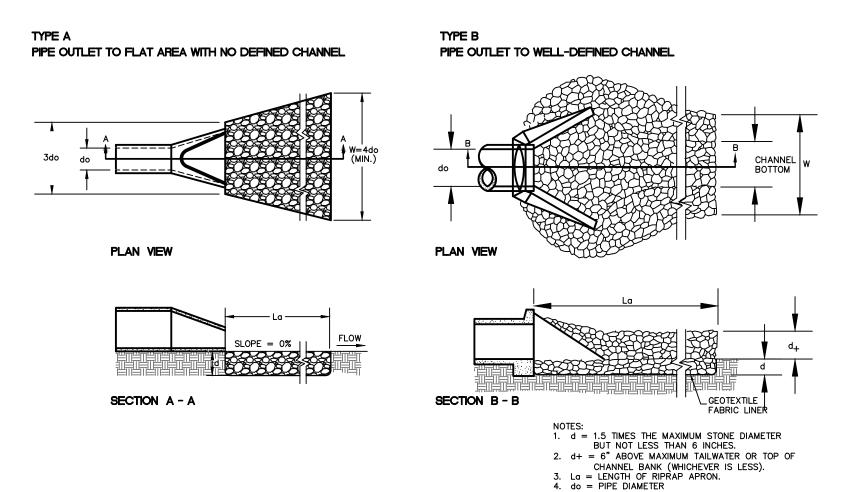
C-505











CONSTRUCTION SPECIFICATION:

1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS. ALSO BE FILLED BY INCREASING THE RIFRAP FILENNESS.

THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.

FILTER CLOTH, WHEN USED MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNNECTING JOINTS SHOULD OVERLAP SO THE TOP LAYER IS ABOVE THE DOWNSTREAM LAYER A MINIMUM OF 1 FOOT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER CLOTH.

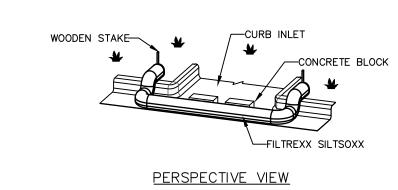
5. STONE DIA. = (FROM CHART)

RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.
THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD ANGULAR, HIGHLY WEATHER—RESISTANT AND WELL GRADED. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFILL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON. 9. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION

MAINTENANCE:

INSPECT RIPRAP OUTLET STRUCTURE WEEKLY AND AFTER SIGNIFICANT (½ INCH OR GREATER RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLOGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

DISSIPATOR PAD/OUTLET PROTECTION NO ŠCALE



- 1. INSTALL FILTREXX SILTSOXX IN FRONT OF CURB OPENING TO A MINIMUM OF 12" BEYOND THE OPENING, EACH SIDE.
- 2. ANCHOR THE FILTREXX SILTSOXX BEHIND THE CURB WITH A WOODEN STAKE. STAKES SHALL BE ANCHORED A MINIMUM
- 3. STANDARD INLET PROTECTION FOR CURB INLET PROTECTION AND CURB SEDIMENT CONTAINMENT WILL USE 8" DIAMETER INLET PROTECTION. DURING CURB INSTALLATION, INLET PROTECTION SHALL BE COMPACTED TO BE SLIGHTLY SHORTER
- 4. IF INLET PROTECTION BECOMES CLOGGED WITH DEBRIS AND SEDIMENT, THEY SHALL BE MAINTAINED SO AS TO ASSURE PROPER DRAINAGE AND WATER FLOW INTO THE STORM DRAIN. IN SEVERE STORM EVENTS, OVERFLOW OF THE INLET
- PROTECTION MAY BE ACCEPTABLE TO KEEP THE AREA FROM FLOODING. 5. CURB AND DRAIN INLET PROTECTION SHALL BE POSITIONED SO AS TO PROVIDE A PERMEABLE PHYSICAL BARRIER TO
- 6. CONCRETE BLOCKS SHALL BE USED A SPACER TO KEEP THE FILTREXX SILTSOXX FROM BLOCKING THE CURB OPENING. CONCRETE BLOCKS SHALL BE USED AT BOTH ENDS OF THE OPENING AND EVERY 4'.

FILTREXX SILTSOXX CURB CUT INLET PROTECTION

CONSTRUCTION SPECIFICATION:

GOING AROUND THE END OF THE SOCKS.

- 1. MATERIALS USED IN THE COMPOST SOCK MUST MEET THE SPECIFICATIONS OUTLINED IN THE NC EROSION CONTROL AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR COMPOST SOCKS AND COMPOST BLANKETS.

 2. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.
- PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK.

 4. COMPOST SOCKS SHOULD BE INSTALLED PARALLEL TO THE TOE OF A GRADED SLOPE, A MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE. SOCKS LOCATED BELOW FLAT AREAS SHOULD BE LOCATED AT THE EDGE OF THE LAND—DISTURBANCE. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM
- 5. FILL SOCK NETTING UNIFORMLY WITH COMPOST TO THE DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM. 6. OAK OR OTHER DURABLE HARDWOOD STAKES 2" X 2" IN CROSS SECTION SHOULD BE DRIVEN VERTICALLY PLUMB, THROUGH THE CENTER OF THE COMPOST SOCK. STAKES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. THE STAKES SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
- 7. IN THE EVENT STAKING IS NOT POSSIBLE (i.e. WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.

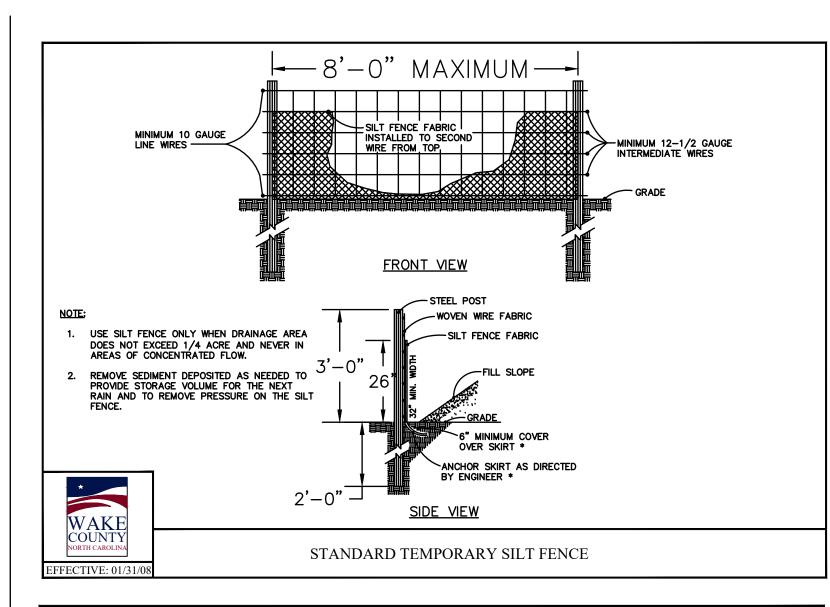
 8. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATION IN THE EROSION
- AND SEDIMENTATION CONTROL PLAN.

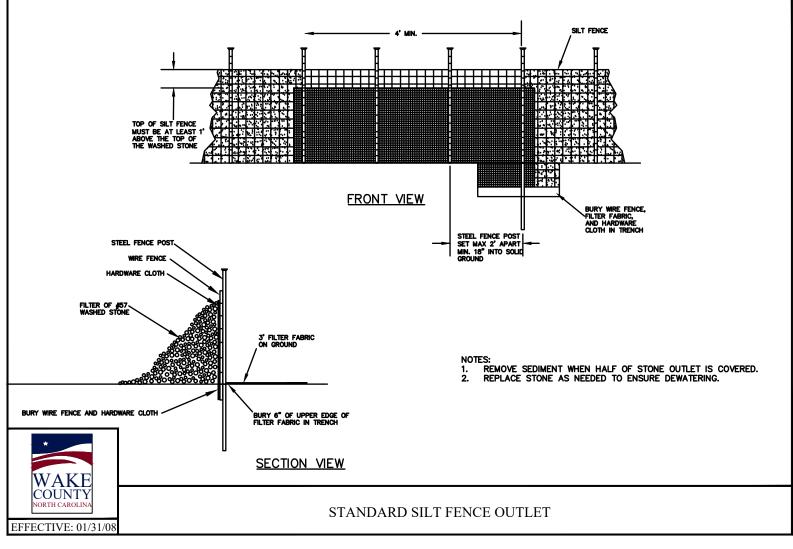
 9. COMPOST SOCKS ARE NOT BE BE USED IN PERENNIAL OR INTERMITTENT STREAMS.

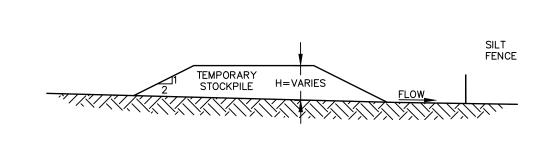
MAINTENANCE:

INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OF A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY ESTABLISHED. DISPOSAL/RECYCLING:

COMPOST MEDIA IS A COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THE COMPOST MEDIA MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL AS AN AMENDMENT OR LEFT ON THE SOIL SURFACE TO AID IN PERMANENT SEEDING OR LANDSCAPING. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM THE MEDIA AND DISPOSED OF PROPERLY. THE PHOTODEGRADABLE MESH NETTING MATERIAL WILL DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH NETTING MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN APPROXIMATELY 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

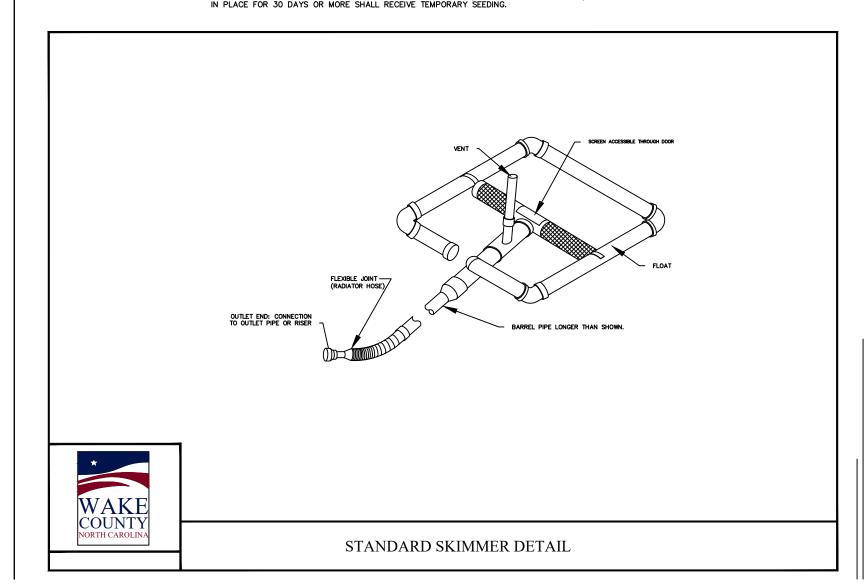




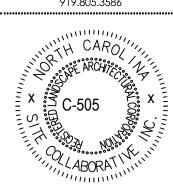


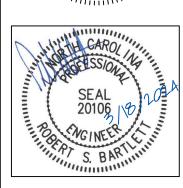
TEMPORARY STOCKPILE WITH SILT FENCE

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.











PROJECT NUMBER: PROJECT PHASE:

DATE: 03.18.2024

SEDIMENTATION AND

EROSION CONTROL DETAILS

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

plementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdictio

may	may not apply depending on site conditions and the delegated authority having jurisdiction							
SECT	SECTION E: GROUND STABILIZATION							
Required Ground Stabilization Timeframes								
Site Area Description		Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations					
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None					
(b)	High Quality Water (HQW) Zones	7	None					
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed					
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed					
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope					

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

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

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

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.

Rolled 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 area for containment of treated Stormwater before discharging

or surrounded by secondary containment structures.

Store flocculants in leak-proof containers that are kept under storm-resistant cover

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
- 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

Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

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

on a gravel pad and surround with sand bags.

PAINT AND OTHER LIQUID WASTE

containers overflow.

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

Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites

- 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
- Provide staking or anchoring of portable toilets during periods of high winds or in high 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

offset is not attainable, provide relocation of portable toilet behind silt fence or place

with properly operating unit.

- **EARTHEN STOCKPILE MANAGEMEN** 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
- 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.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

CLEARLY MARKED SIGNAGE MOTING DEVICE (18"X24" MIN.) 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLI REACHES 75% OF THE STRUCTURES CAPACITY. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. BELOW GRADE WASHOUT STRUCTURE

CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- 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
- 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.

EFFECTIVE: 04/01/19

SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend of holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those ur attended days (and this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded a "zero." 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	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	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 left the site limits, 2. Description, evidence, and date of corrective actions taken, and an explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	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, and 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.
(6) Ground stabilization measures	After each phase of grading	The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

SELF-INSPECTION, RECORDKEEPING AND REPORTING

Item to Document

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Documentation Requirements

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

requirement not practical:

- In addition to the E&SC Plan documents above, the following items shall be kept on the and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this
- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING 1. Occurrences that must be reported

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

b) Oil spills if:

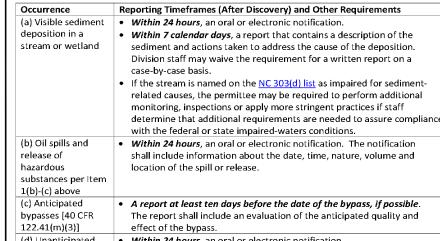
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours, • They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the

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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.



(d) Unanticipated 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. Within 24 hours, an oral or electronic notification with the conditions • Within 7 calendar days, a report that contains a description of the

case-by-case basis.

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/

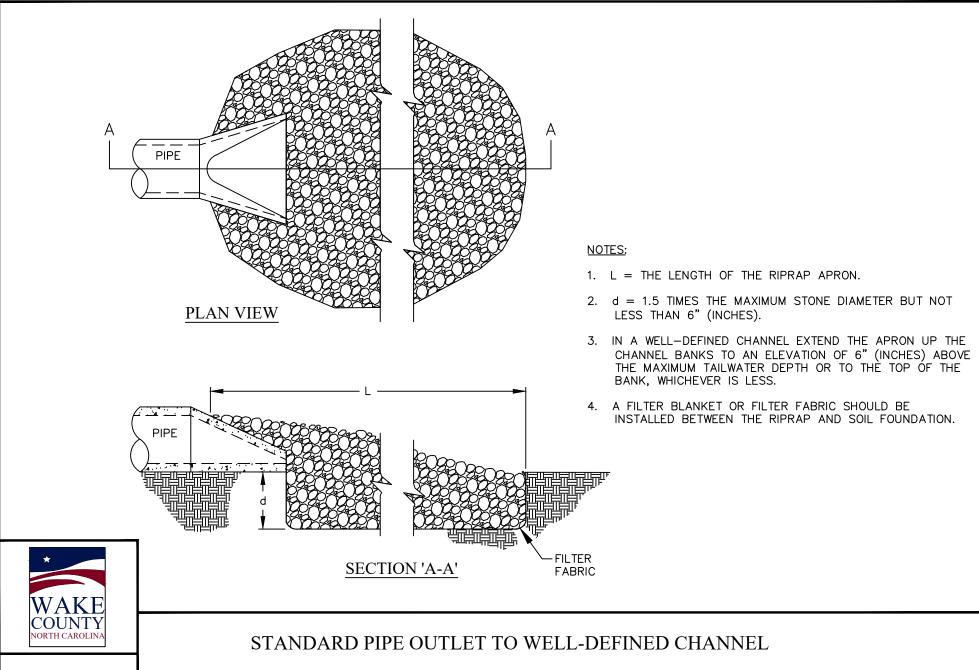
STREAM BANK--FILTER BAG FOR DEWATERING SILT FENCE -EXISTING TERRAIN -8" OF NO. 5 OR 57 STONE DRAINAGE -**GEOTEXTILE** NOTES PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER

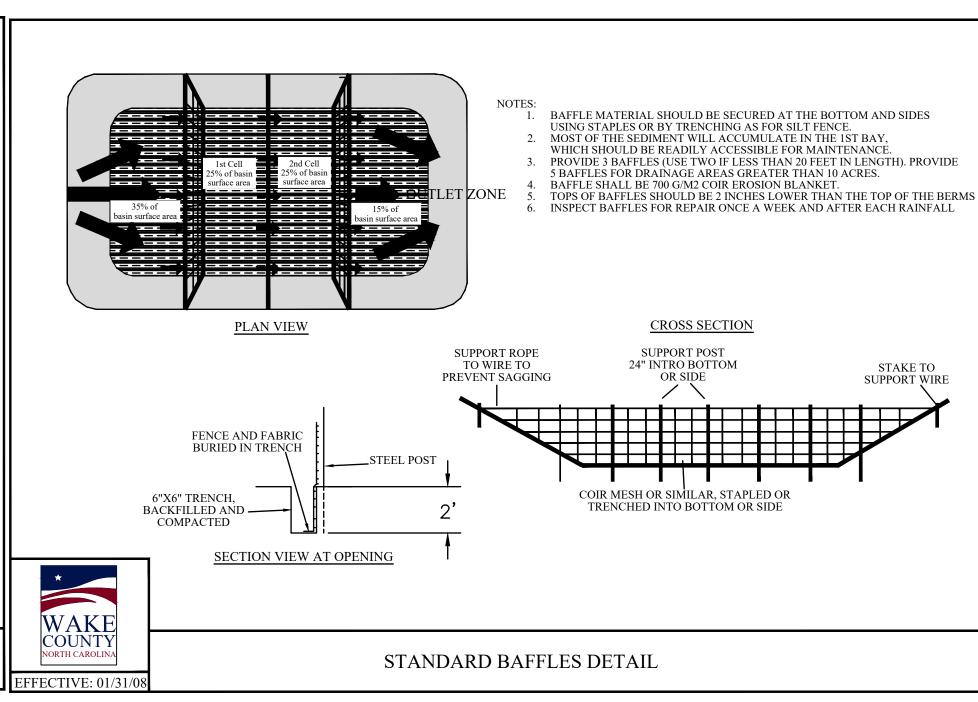
STANDARD FILTER BAG FOR DEWATERING ACTIVITIES

OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE

FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

NOT TO SCALE





Dewatering Bag Standard Drawing

The purpose of a Dewatering Bag is to collect sediment contained in the discharged water, to prevent the scour and erosion from water exiting a pipe at high velocity, to defuse the water over a wider area to minimize erosion as the water drains away, and to retain oil contained within effluent.

A SedCatch® dewatering bag or approved equal should be used anytime water is pumped on the site.

Installation and Use:

COUNTY

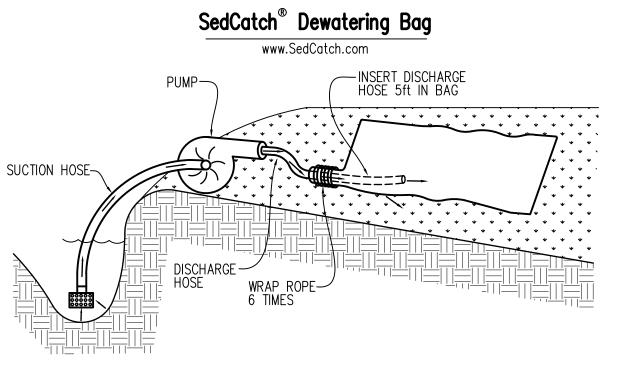
NORTH CAROLINA

EFFECTIVE: 01/31/0

Place SedCatch® Dewatering Bag on the ground or on a trailer over a relatively level, stabilized area.
 Insert discharge pipe a minimum of 5ft. inside SedCatch® dewatering bag and secure with a rope (included) wrapped 6 times around the snout over a 6 inch width of the bag.
 Replace SedCatch® Dewatering Bag when half full of sediment or when the sediment has reduced the flow rate of the pump discharge to an impractical amount.

Maintenance and Disposal:

1. Remove and dispose of accumulated sediment away from waterways or environmentally sensitive areas. Slit open Sediment Bag and remove accumulated sediment. Dispose of bag at an appropriate recycling or solid waste facility. OR; as directed by engineer or inspector.



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PROJECT NUMBER:

PROJECT PHASE:

DATE: 03.18.2024

821 Wake Forest Road

Raleigh, NC 27604 |

919.805.3586

SHEET TITLE: SEDIMENTATION AND **EROSION CONTROL** DETAILS NCG01

SHEET NUMBER:

DT3