Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C0.0 COVER SHEET October 07, 2026 02:32:28pm K:\RAL_LDEV\012262021 - Wake\CoPks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\C0.0 COVER SHEET.dwg
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ISSUE FOR BID PLANS

FOR

HISTORIC YATES MILL COUNTY PARK

SPR-0105-2026

4620 LAKE WHEELER ROAD
RALEIGH, NC 27603

A DEVELOPMENT BY:

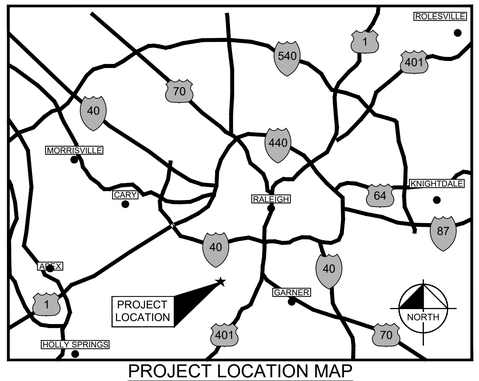
WAKE COUNTY
NORTH CAROLINA

WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION

SITE DATA TABLE		
SITE ADDRESS		4620 LAKE WHEELER RD.
SITE PIN		0791273988, 0791262053
EXISTING ZONING		R-1 (RESIDENTIAL)
EXISTING ZONING OVERLAY		SWPOD (SWIFT CREEK PROTECTION)
EXISTING USE		CIVIC USE - PARK
PROPOSED USE		CIVIC USE - PARK
GROSS SITE AREAGE		153.58 AC (6,689,944.8 SF)
NET SITE AREA		153.58 AC (6,689,944.8 SF)
EXISTING BUILDING AREA		24,243 SF
PROPOSED ADDITIONAL BUILDING AREA		1,375 SF
DISTURBED AREA		3.00 AC
NUMBER OF STORMWATER CONTROL MEASURES		1 EXISTING DETENTION POND
LAND COVER		IMPERVIOUS (EXISTING): 3.69 AC PERVIOUS (EXISTING): 151.75 AC PERCENT IMPERVIOUS (EXISTING): 2.37% IMPERVIOUS (PROPOSED): 4.74 AC PERVIOUS (PROPOSED): 150.70 AC PERCENT IMPERVIOUS (PROPOSED): 3.05%
LANDSCAPE BUFFERS		N/A
VEHICULAR PARKING SPACES	REQUIRED SPACES	NO MIN
	EXISTING CONDITION	75 SPACES (INCLUDES 69 STANDARD SPACES, 3 BUS SPACES, AND 3 ACCESSIBLE SPACES)
	PROPOSED CONDITION	EXISTING TO REMAIN: 3 ACCESSIBLE SPACES 68 STANDARD SPACES PROPOSED: 3 RELOCATED BUS SPACES 2 ACCESSIBLE SPACES 7 STANDARD SPACES 2 GRAVEL SPACES IN MAINTENANCE YARD TOTAL: 85 SPACES 5 ACCESSIBLE SPACES 3 BUS SPACES 75 STANDARD SPACES 2 GRAVEL SPACES IN MAINTENANCE YARD
BIKE PARKING SPACES	IMPROVED SITE AREA INCREASE	1.95% (3 AC OF DISTURBED AREA / 153.58 AC OF TOTAL SITE AREA)
	REQUIRED	.2 SPACES PER ACRE OF OPEN SPACE AND ONE SPACE PER 5,000 SF OF GROSS INDOOR FLOOR AREA ((.2 X 1.38 OF PROVIDED OPEN SPACE = 1 SPACE) + (1,375 SF/5,000 X 1 = 1 SPACE) = 2 REQUIRED SPACES)
	PROPOSED	8 SPACES (4 RACKS)
FEMA FLOOD OVERLAY		FEMA ZONE AE FLOODPLAIN AND FEMA ZONE AE FLOODWAY ARE PRESENT ON THIS SITE

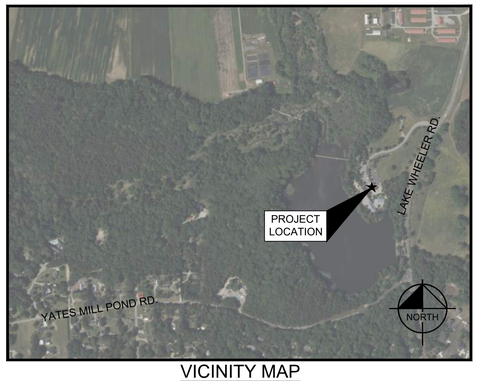
TRAFFIC CONTROL AND PEDESTRIAN PLAN (TCPED) NOTES:

1. PRIOR TO ANY WORK THAT IMPACTS THE RIGHT-OF-WAY, CLOSING OR DETOURING OF ANY STREET, LANE, OR SIDEWALK, THE CONTRACTOR MUST APPLY FOR A PERMIT WITH RIGHT-OF-WAY SERVICES. PLEASE DIRECT ANY QUESTIONS TO RIGHTOFWAYSERVICES@RALEIGHNC.GOV.
2. THE STREET, LANE, SIDEWALK, CLOSURE PERMIT IS REQUIRED FOR ANY CLOSURE ON CITY STREETS AND ALL NCDOT STREETS WITHIN RALEIGH'S JURISDICTION.
3. A PERMIT REQUEST WITH A TCPED PLAN SHALL BE SUBMITTED TO RIGHT-OF-WAY SERVICES THROUGH THE CITY OF RALEIGH PERMIT AND DEVELOPMENT PORTAL.
4. PRIOR TO THE START OF WORK, THE CLIENT SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ENGINEERING INSPECTIONS COORDINATOR TO REVIEW THE SPECIFIC COMPONENTS OF THE APPROVED PLAN, AND ENSURE ALL PERMITS ARE ISSUED.
5. ALL TCPED PLANS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND STANDARDS, INCLUDING BUT NOT LIMITED TO:
   - 5.1. MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD);
   - 5.2. PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG);
   - 5.3. AMERICAN DISABILITY ACT (ADA) REQUIREMENTS;
   - 5.4. RALEIGH STREET DESIGN MANUAL (RSDM).
6. ALL PUBLIC SIDEWALKS MUST BE ACCESSIBLE TO PEDESTRIANS WHO ARE VISUALLY IMPAIRED AND/OR PEOPLE WITH MOBILITY CONCERNS. EXISTING AND ALTERNATIVE PEDESTRIAN ROUTES DURING CONSTRUCTION SHALL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. ALL PERMITS MUST BE AVAILABLE AND VISIBLE ON SITE DURING THE OPERATION.



PROJECT LOCATION MAP

SCALE: NOT TO SCALE



VICINITY MAP

SCALE: 1" = 700'

Sheet List Table

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C1.2	EXISTING CONDITIONS ENLARGEMENT - MILL ACCESS PATH
C1.3	EXISTING CONDITIONS ENLARGEMENT - THE MILL
C1.4	EXISTING CONDITIONS ENLARGEMENT - MILL POND OVERLOOK
C2.0	DEMOLITION PLAN ENLARGEMENT - MILL POND PAVILION
C2.1	DEMOLITION PLAN ENLARGEMENT - MILL ACCESS PATH
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C3.0	OVERALL SITE PLAN
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C3.7	SITE DETAILS
C3.8	SITE DETAILS
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MB.A2.0	FOUNDATION PLAN + MISC. DETAILS
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MB.A3.1	BUILDING ELEVATIONS
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PP.A0.0	COVER SHEET
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PP.A2.1	FLOOR PLAN + SCHEDULES + BUILDING SECTION
PP.A2.2	REFLECTED CEILING PLAN
PP.A2.3	ROOF PLAN
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PP.A5.1	SECTION DETAILS
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VC.A0.0	COVER SHEET
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VC.A0.2	APPENDIX B CONT'D
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VC.A2.2	DEMOLITION FLOOR PLAN + REFLECTED CEILING PLAN
VC.A2.3	PROPOSED FLOOR PLAN + REFLECTED CEILING PLAN
VC.A3.1	EXISTING BUILDING ELEVATIONS
VC.A3.2	PROPOSED SECTION + INTERIOR ELEVATIONS + WINDOW SCHEDULE
VC.S1.0	GENERAL STRUCTURAL NOTES + FLOOR PLAN & NOTES
VC.M1.0	MECHANICAL FLOOR PLAN - VISITOR'S CENTER
VC.E1.0	ELECTRICAL FLOOR PLAN - VISITOR'S CENTER
VC.E1.1	ELECTRICAL FLOOR PLAN - VISITOR'S CENTER
VC.FA1.0	FIRE ALARM FLOOR PLAN - VISITOR'S CENTER

PROJECT OWNERS & CONSULTANTS

OWNER
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
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RALEIGH, NC 27601
CONTACT: ERIC STAEHLE
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EMAIL: MELISSA.BRAND@KIMLEY-HORN.COM

CIVIL ENGINEER
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421 FAYETTEVILLE ST., SUITE 600
RALEIGH, NC 27601
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PHONE: (984) 389-1493
EMAIL: ANDIE.ALTEMEIER@KIMLEY-HORN.COM

GEOTECHNICAL ENGINEER
TERRACON
3150 SPRING FOREST ROAD, SUITE 100
RALEIGH, NC 27616
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PHONE: (919) 873-2211
WWW.TERRACON.COM

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EMAIL: MES@LYSAGHTASSOCIATES.COM

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ELIZABETH CITY, NC 27909
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EMAIL: HDMA@MINDSPRING.COM

SURVEYOR
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4300 EDWARDS MILL RD., SUITE 200
RALEIGH, NC 27612
CONTACT: ROBIN LEE
PHONE: (919) 258-2400
EMAIL: RLEE@MCKIMCREED.COM

ATTENTION CONTRACTORS

The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Infrastructure Inspections Division to schedule a Pre-construction meeting on the Development Portal prior to beginning any construction.
Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.

Failure to notify City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require re-installation 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 Raleigh Water Standards will result in a fine and possible exclusion from future work in the City of Raleigh.

INFRASTRUCTURE INSPECTIONS QUANTITIES TABLE	
Number of Lot(s)	1
Lot Number(s) by Phase	1
Number of Units	0
Livable Buildings	0
Open Space?	NA
Number of Open Space Lots	NA
Public Water (LF)	NA
Public Water* (LF)	NA
Public Sewer (LF)	NA
Public Force Main (LF)	NA
Private Sewer** (LF)	NA
Public Street (LF) - FULL	NA
Public Street (LF) - PARTIAL	NA
Public Sidewalk (LF) - FULL	NA
Public Sidewalk (LF) - PARTIAL	NA
Multi-Use Path*** (LF)	NA
Public Stormdrain (LF)	NA
Street Signs (LF)	NA
Water Service Stubs	NA
Sewer Service Stubs	NA
Average Daily Flow per Phase****	NA

*Water mains 4" and larger.
**Sewer mains and manholes as part of a collection system.
***10 or 12 ft wide path in lieu of sidewalk or a multi-use path as part of a development amenity.
****Entire Project Flow. Based on 75gpd per bedroom for residential (apartments, single family dwelling, townhouse, condos), or based on 15A NCAC 02T .0114 Wastewater Design Flow Rates for Commercial and Industrial.

Project Data Sheet

Planning and Development Customer Service Center • One Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2500

Raleigh

This form must be completed and applied to the cover sheet of drawings submitted with a Non-Residential building permit associated with a Site Permit Review, or permits for an apartment, office, and/or commercial uses.

GENERAL INFORMATION	
Development Name: Historic Yates Mill County Park	Proposed Use: Civic Use - Park
Property Address(es): 4620 Lake Wheeler Road, Raleigh, NC 27603	
Approved Site Plan or Subdivision case #:	
Wake County Property Identification Number(s) (PIN) for each parcel to which these guidelines will apply:	
PIN #: 0791273988	PIN #: 0791262053 / PIN #: / PIN #:

What is the project type? (Frequent Transit Development Option)

☐ Apartment	☐	☐ Congregate care	☐ Hospital
☐ Hotel/Motel	☐ Industrial building	☐ Mixed residential	☐ Non-residential condo
☐ Office	☐ Religious institution	☐ Residential condo	☐ Retail
☐ School	☐ Shopping center	☐ Single-family residential	☐ Telecommunication tower
☐ Townhouse	☑ Civic use: Park, community center, museum or government facility		☐ Other

Scope of work: Minor site improvements at the existing Historic Yates Mill County Park. Improvements include a new equipment storage building, expansion of existing parking, a new picnic shelter, sidewalk improvements across the site, and two (2) seating areas.

FOR APARTMENTS, CONDOS, AND TOWNHOMES ONLY
1. Total number of townhouse lots: N/A — Number attached: N/A — Number detached: N/A
2. Total number of apartment or condominium units: N/A
3. Total number of Congregate Care or Life Care Dwelling units: N/A
4. Overall total number of dwelling units (from 1-3 above): N/A
5. Number of bedroom units: 1BR: N/A — 2BR: N/A — 3BR: N/A — 4BR or more: N/A
6. Overall unit(s) per acre densities per zoning district(s): N/A

DEVELOPMENT TYPE AND SITE DATA TABLE (applicable to all developments)	
Zoning Information	**Building Information**
Zoning district(s): R-1	Proposed use of building(s): Equipment Storage Building
If more than one district, provide acreage of each:	Proposed sq. ft. of building(s) gross: 1,375
Overlay district(s): SWPOD	Existing sq. ft. of building(s) gross: 24,243
Total site acreage: 153.58 - Lease Boundary Only	Total sq. ft. gross (existing and proposed): 25,618
Off street parking: Required: No min Provided: 87	Proposed height of building(s): 10'
COA (Certificate of Appropriateness) case #:	FAR (floor area ratio) %: 0.40
BOA (Board of Adjustment) case # A -	Building lot coverage %: 0.40
CUD (Conditional Use District) case # Z -	Inside City Limits? Yes ☑ No ☐

REVISION 07.01.24
raleighnc.gov

PAGE 1 OF 2

STORMWATER INFORMATION	
Existing impervious surface: 3.69 / 160,526 acres/square feet	
Proposed impervious surface: 4.74 / 206,318 acres/square feet	
Neuse River buffer: Yes ☑ No ☐	Wetlands: Yes ☑ No ☐
Flood Hazard Area: Yes ☑ No ☐	If yes, Alluvial soils: Mantachie Soil (ME)
Flood Study: SPR-0112-2026	FEMA Map Panel #: 3720078100K & 3720079100K
Total disturbed area: 3.00 / 130,680 acres/square feet	

811 Know what's below. Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
PHONE: 984-275-4874 FAX: 919-677-2050
#F-0102 WWW.KIMLEY-HORN.COM

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND
10/01/2026

KHA PROJECT 012262021
DATE 10/01/2026
SCALE AS SHOWN
DESIGNED BY MKB
DRAWN BY SDB
CHECKED BY JDK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C0.0

COVER SHEET

Plotted By: Brown, Seth Sheet Set: Yates Mill County Park Layout: C0.1 GENERAL NOTES October 07, 2026 02:31:33pm K:\RAL_LDEV\012262021 - WakeCoParks_HistoricYatesMillPlanning Phase\P1D_CAD Files\02_PlanSheets\C0.1 GENERAL NOTES.dwg
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GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS, BUILDING UTILITY ENTRANCE LOCATIONS, AND EXACT LOCATIONS AND DIMENSIONS OF EXIT PORCHES, RAMPS, DOWNSPOUTS, GRAVEL AREAS ADJACENT TO BUILDING WALLS, UTILITY ENTRANCE LOCATIONS AND BOLLARDS IN BUILDING SIDEWALKS. ANY DISCREPANCIES FOUND BETWEEN THE BUILDING AND CIVIL PLANS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
2. ACCESSIBLE PARKING SIGNS WITH A "VAN" MARKING SHALL HAVE ADDITIONAL SIGN MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY SIGN DENOTING VAN ACCESSIBILITY; REFER TO CONSTRUCTION DETAIL SHEETS.
3. REFER TO CONSTRUCTION DETAIL SHEETS FOR DETAILS OF ON-SITE SIGNAGE, STRIPING, AND PAVEMENT MARKING. REFER TO SITE PLAN FOR ADDITIONAL DIMENSIONAL INFORMATION.
4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY AND STATE REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
5. ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED UNLESS OTHERWISE INDICATED.
6. ALL EXISTING CONDITIONS AND BOUNDARY INFORMATION WAS PROVIDED WITHIN A ALTA/NSPS LAND TITLE SURVEY PREPARED BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC 27612, 919-233-8091, DATED NOVEMBER 04, 2025.
7. ALL EXISTING TOPOGRAPHIC INFORMATION WAS PROVIDED WITHIN A TOPOGRAPHIC LOCATION SURVEY PREPARED BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC 27612, 919-233-8091, DATED 11/04/2025.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, TRAFFIC MEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED BY THE STATE DEPT. OF TRANSPORTATION, NCDOT AND RALEIGH INSPECTIONS.
9. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL REPLACE EXISTING CONCRETE CURBS, SIDEWALK, PAVING, AND GUTTER AS INDICATED ON PLANS AND AS NECESSARY TO CONNECT TO EXISTING INFRASTRUCTURE, INCLUDING ANY DAMAGE CAUSED BY THE CONTRACTOR.
11. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS AND TEMPORARY CONSTRUCTION EASEMENTS MAY BE REQUIRED.
12. CONTRACTOR AGREES TO REPAIR ANY DAMAGE TO PRIVATE PROPERTY AND THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE STANDARDS OF THE NCDOT AND CITY OF RALEIGH.
13. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTIONS WITH INSPECTOR.
14. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
15. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
16. THE CONTRACTOR SHALL CONSTRUCT ACCESSIBLE RAMPS AT ALL INTERSECTIONS IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARDS MANUAL (LATEST REVISIONS FOR ACCESSIBLE RAMP DETAILS).
17. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
18. ALL OFF-SITE CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT NCDOT STANDARD SPECIFICATIONS AND DETAILS. ALL ON-SITE CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH RALEIGH STANDARD SPECIFICATIONS AND DETAILS.
19. ALL WORK MUST COMPLY WITH NORTH CAROLINA BUILDING CODE AND IBC ACCESSIBLE CODE CHAPTER 11 AS WELL AS FEDERAL, STATE AND LOCAL ACCESSIBILITY REQUIREMENTS.
20. ADJACENT STREETS SHALL BE KEPT CLEAN AT ALL TIMES.
21. CONTRACTOR MUST INSTALL CONSTRUCTION FENCE AROUND THE PERIMETER OF THE PROPERTY UNTIL THE BUILDINGS ARE SECURE WITH TEMPORARY DOORS AND LOCKS.

UTILITY NOTES:

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE CITY OF RALEIGH UTILITY INSPECTORS 72-HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:

   8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP
   8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
   6" PVC SCHEDULE 40
   4" PVC SCHEDULE 40
   DUCTILE IRON PIPE PER AWWA C150 AND AWWA C151

4. WATER LINES SHALL BE AS FOLLOWS:

   3" AND LARGER – DUCTILE IRON PIPE PER AWWA C150
   SMALLER THAN 3" – TYPE K COPPER TUBE

5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT ON UTILITY DETAILS.
7. WATER AND SEWER MAINS SHALL BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3.0' COVER ON ALL WATERLINES.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
12. THE CITY OF RALEIGH THE RIGHT TO INSPECT ALL PRIVATE WATER AND WASTEWATER SYSTEMS.
13. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
14. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
15. REFER TO ARCHITECTURAL DRAWINGS FOR TIE-IN LOCATION AND ELEVATION OF ALL UTILITIES.
16. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE CITY OF RALEIGH UTILITY DEPARTMENT WITH REGARDS TO MATERIALS, INSTALLATION, AND TESTING OF THE WATER AND SEWER LINES. IF MUNICIPALITY DOES NOT REQUIRE TESTING, CONTACT ENGINEER FOR APPROPRIATE UTILITY TESTING CRITERIA.
17. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
18. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES CHARTED OR UNCHARTED WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
19. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS AND/OR TESTING REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
20. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
21. ALL UTILITY MAIN LENGTHS SHOWN ARE APPROXIMATE.
22. ALL EXISTING UTILITIES PROPOSED TO BE RELOCATED ON THESE PLANS SHALL BE PLACED UNDERGROUND.
23. ALL SANITARY SEWER AND WATER DISTRIBUTION SYSTEM WORK TO BE INSTALLED BY A LICENSED UTILITY CONTRACTOR.
24. THE CONTRACTOR SHALL COORDINATE AS REQUIRED WITH UTILITY PROVIDER FOR INSTALLATION OF PRIMARY ELECTRIC SERVICE AND TELEPHONE SERVICE TO THE PROPOSED BUILDINGS.
25. WHEN A WATER MAIN CROSSES OVER A SEWER MAIN, THERE MUST BE EIGHTEEN INCHES OF VERTICAL SEPARATION. IF THE WATER MAIN MUST GO UNDER THE SEWER MAIN, BOTH LINES MUST BE OF DUCTILE IRON FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE CROSSING WITH A TWELVE INCH VERTICAL SEPARATION. THE CROSSING OF OTHER UNDERGROUND PIPE REQUIRES A MINIMUM OF TWELVE INCHES OF VERTICAL SEPARATION. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
26. WHEN A WATER LINE PASSES OVER OR UNDER A STORM SEWER, VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED UNLESS WATER LINES ARE OF DUCTILE IRON OR ENCASED IN CONCRETE. A MINIMUM 6" CONCRETE PAD SHALL BE POURED BETWEEN THE TWO. DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
27. A FIRE INSPECTOR SHALL INSPECT THE UNDERGROUND FIRE LINE PIPING FROM THE PIV TO THE BUILDING. FOR YARD FIRE DEPARTMENT CONNECTIONS (FDCS), THE UNDERGROUND FDC PIPING MUST BE INSPECTED BEFORE IT IS COVERED UP.
28. GREASE INTERCEPTOR SIZING AND DETAILS ARE TO BE INCLUDED WITH BUILDING CONSTRUCTION PLUMBING PLANS.

CITY OF RALEIGH STANDARD UTILITY NOTES:

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH RALEIGH WATER DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: RALEIGH WATER HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   a. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
   b. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE RALEIGH WATER DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
   c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
   d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
   e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER RALEIGH WATER DETAILS W-41 & S-49).
   f. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY RALEIGH WATER PRIOR TO CONSTRUCTION.
4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO RALEIGH WATER.
6. SEWER BYPASS PUMPING – A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE RALEIGH WATER HANDBOOK.
7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY RALEIGH WATER. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER RALEIGH WATER HANDBOOK PROCEDURE.
9. INSTALL WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
13. INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.
14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
18. CROSS-CONNECTION REQUIREMENTS:
   a. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
   b. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
   c. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A – GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
   d. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
19. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN $250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
20. PRIVATE SUB-METERING – NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE 'SAFE DRINKING WATER ACT':

GRADING

1. OBTAIN AND POST THE LAND DISTURBANCE PERMIT ONSITE PRIOR TO COMMENCING WORK ON SITE.
2. REFER TO FINAL CONSTRUCTION PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
3. CONTRACTOR SHALL ADHERE TO THE LIMITS OF TREE PROTECTION FENCE.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
5. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND WAKE COUNTY FACILITIES DESIGN AND CONSTRUCTION DEPARTMENT), AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
6. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS AND REPORT. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE CERTIFIED MATERIAL TESTING AGENCY PRIOR TO PLACEMENT.
7. GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
8. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
9. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D-698. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
10. ALL DEMOLITION, DEBRIS, AND OTHER EXCESS MATERIAL SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
11. NO TREE WITHIN THE TREE PROTECTION AREA SHALL BE REMOVED OR DAMAGED.
12. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE PROJECT ACCEPTANCE IS SCHEDULED. FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
13. REFERENCE GEOTECHNICAL REPORT FOR PAVING SUB GRADE INFORMATION.
14. ALL SPOT GRADE ELEVATIONS IN CURB AND GUTTER REPRESENT GUTTER FLOWLINE ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED (ADD 6" FOR TOP OF CURB).
15. PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
16. REFER TO SITE PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS.
17. WHERE FILL IS TO BE PLACED ON EXISTING SLOPES STEEPER THAN 4:1, CONTRACTOR SHALL EXCAVATE BENCHES WITH A MAXIMUM DEPTH OF 3'.
18. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SLOPE STABILIZATION ON ALL SLOPES STEEPER THAN 3:1.
19. IF REQUIRED CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS.
20. SILT FENCE SHALL BE PLACED AROUND ALL TEMPORARY SOIL STOCKPILES A MINIMUM OF 3' FROM TOE OF SLOPE. TEMPORARY STOCK PILES AND STAGING AREAS OUTSIDE OF LIMITS OF DISTURBANCE SHALL BE PERMITTED THROUGH NCDEQ.
21. VERTICAL DATUM IS BASED ON NAVS88 AS ESTABLISHED BY GPS..

PAVING/CURBING

1. IF NOT SPECIFIED ON THE PLAN, WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND GUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES.
2. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
3. ALL PAVEMENT SUB GRADES (EVEN WHEN ROCK IS ENCOUNTERED) SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF ASTM D-698 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN IN THE CONSTRUCTION DOCUMENTS OR AS DIRECTED BY THE CERTIFIED MATERIALS TESTING AGENT. FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8" LIFTS.
4. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AND MISCELLANEOUS STRIPING AS SHOWN ON THE PLANS. UNLESS SPECIFIED ON THE PLAN, ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ADHERE TO NCDOT STANDARDS.
5. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
6. ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
7. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE CERTIFIED MATERIAL TESTING AGENT HAS PERFORMED THE WORK AND THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND/OR THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
8. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES ON PUBLIC STREETS SHALL CONFORM TO MUTCD, NCDOT, AND THE WAKE COUNTY STANDARDS.

TRAFFIC CONTROL NOTES

1. WITHIN THE SIGHT TRIANGLES AND SIGHT EASEMENTS SHOWN ON THESE PLANS, NO OBSTRUCTION SHALL BE LOCATED IN WHOLE OR PART BETWEEN (2) FEET AND (8) FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS. OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY BERM, FOLIAGE, FENCE, WALL SIGN, PARKED VEHICLE OR OTHER OBJECT.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL WAKE COUNTY AND/OR N.C.D.O.T. STANDARDS AND SPECIFICATIONS.
3. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) FOR DETAILS OF STANDARD TRAFFIC CONTROL SIGNS AND STANDARDS.

BACKFLOW PREVENTION:

1. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER.
2. EACH BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY AN APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM INTO SERVICE. CONTRACTOR SHALL PERFORM TESTING IN ACCORDANCE WITH THE WAKE COUNTY ENGINEERING DEPARTMENT.

FIRE DEPARTMENT NOTES

1. THE APPARATUS ROAD SURFACE IS REQUIRED TO BE WITHIN 200 FEET (NFPA 13R) OR 250 FEET (NFPA13) TO ALL PORTIONS OF THE EXTERIOR WALL OF THE FIRST FLOOR OF THE BUILDING (NCFC 503.1.1).
2. FIRE FLOW ANALYSIS MUST BE PROVED AT TIME OF BUILDING PERMITS PER THE 2012 NCFC, SECTION 507.3.
3. FIRE DEPARTMENT ACCESS LANE TO BE CAPABLE OF SUPPORTING THE LOAD OF THE APPARATUS WEIGHING AT LEAST 90,000 LBS AND SHALL BE SURFACES TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.
4. HISTORIC YATES MILL PARK IS CURRENTLY SERVED BY THE SWIFT CREEK FIRE DEPARTMENT. ANY FIRE EMERGENCIES ON SITE SHALL BE SERVED BY THE SCFD TANKER TRUCKS WITH DROP TANK.

EROSION CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH NCDEQ EROSION CONTROL STANDARDS.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) EROSION AND SEDIMENT CONTROL REGULATIONS.
3. ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NCDENR EROS

EXISTING CONDITIONS LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- EXISTING PROPERTY LEASE BOUNDARY
- EXISTING EASEMENT
- EXISTING FENCE LINE
- EXISTING WATER LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING STORM LINE
- EXISTING ELECTRICAL LINE
- EXISTING NATURAL GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING IRRIGATION LINE
- EXISTING LIGHT POLE
- EXISTING CONTOUR
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING DRAIN INLET
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING ROCK
- EXISTING TREE
- EXISTING TREE CANOPY
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

MID PINES RD.

FEMA ZONE AE FLOODPLAIN BOUNDARY

NORTH CAROLINA STATE UNIVERSITY AGROECOLOGY EDUCATION FARM

WAKE COUNTY PARKS LEASE BOUNDARY (TYP.)

EXISTING WOOD BOARDWALK (TYP.)

EXISTING CREEKSIDE TRAIL

FEMA ZONE AE FLOODWAY BOUNDARY

LIMITS OF SURVEYED INFORMATION

APPROXIMATE LIMITS OF LEASE BOUNDARY (TYP.)

EXISTING WATER WELL AND WELL HOUSE

50' WELL SETBACK

25' WELL SETBACK

EXISTING WETLANDS BOARDWALK

EXISTING STAND OF TRILLIUM VEGETATION

FEMA ZONE AE FLOODPLAIN BOUNDARY

PLAN ENLARGEMENT - SEE INSET 'A' ON SHEET C1.1 & C2.0

OLDE MILL FOREST DR.

FEMA ZONE AE FLOODPLAIN BOUNDARY

EXISTING POND BOARDWALK

EXISTING PARKING LOT

PROPERTY LINE (TYP.)

LIMITS OF GIS INFORMATION

LIMITS OF SURVEY INFORMATION

PLAN ENLARGEMENT - SEE SHEET C1.1 & C2.0

LIMITS OF SITE SURVEY, INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS SHOWN FOR REFERENCE ONLY

EXISTING RIGHT-OF-WAY LINE

EXISTING MILL POND TRAIL

30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER

20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

EXISTING HIGH RIDGE TRAIL

PLAN ENLARGEMENT - SEE INSET 'A' ON SHEET C1.1 & C2.3

EXISTING FLOATING DOCK

A.E. FINLEY CENTER

YATES MILL POND

PLAN ENLARGEMENT - SEE SHEET C1.1 & C2.2

EXISTING LOG CABIN

EXISTING HISTORIC YATES MILL

EXISTING YATES MILL DAM

EXISTING MILL OVERLOOK

EXISTING FIELD CLASSROOM

PLAN ENLARGEMENT - SEE INSET 'B' ON SHEET C1.4 & C2.3

LAKE WHEELER RD.

SUN VALLEY TRL.

E VALLEY CT.

OAKSTONE PL

WATERWHEEL DR.

RANDOLPH CT.

SHILLING CT.

FARMER LN.

COUNTRY COVE LN.

YATES MILL POND RD.

PENNY RD.

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

811
Know what's below.
Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED. 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513

FOR REFERENCE ONLY

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

EXISTING CONDITIONS KEY PLAN

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C1.0

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C1.0 EXISTING CONDITIONS KEY PLAN October 07, 2026 02:31:49pm K:\RAL_LDEV\012262021_WakeCoPks_HistoricYatesMill\Planning Phase\P1D_CAD Files\02_PlanSheets\C1.0 EXISTING CONDITIONS KEY PLAN.dwg
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LIMITS OF SITE SURVEY; INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

EXISTING WETLAND (TYP.)

FEMA ZONE AE FLOODPLAIN BOUNDARY

FEMA ZONE AE FLOODWAY BOUNDARY

EXISTING UNREGISTERED STREAM CENTERLINE

EXISTING RIP RAP STONE

EXISTING WOOD BIRD HOUSE

EXISTING STONE WELL HOUSE
FFE = 321.40

25' WELL SETBACK

50' WELL SETBACK

INV: 320.23'
12" CMP
INV: 323.35'

EXISTING GRAVEL DRIVEWAY

EXISTING METAL GATE

EXISTING ASPHALT DRIVEWAY

EXISTING WOOD BAT HOUSE

EXISTING TREE CANOPY (TYP.)

EXISTING TREE (TYP.)

EXISTING VEGETATION LINE (TYP.)

EXISTING WOOD BAT HOUSE

EXISTING WOOD BIRD HOUSE

EXISTING RETAINING WALL

EXISTING NATURAL SURFACE PATH

EXISTING NON-JURISDICTIONAL WETLAND (TYP.)

EXISTING WOOD STAGE WITH AMPHITHEATER SEATING

EXISTING TRANSFORMER AND CONCRETE PAD

EXISTING GAS LINE VALVE WITH CARSONITE MARKER

EXISTING 3 SLAT WOOD FENCE (TYP.)

EXISTING TREE (TYP.)

SPILLWAY
INV (75') 293.29'
B.O.B. 292.65'

EXISTING 4" CAPPED PVC PIPE

EXISTING UTILITY HAND HOLE

LIMITS OF SITE SURVEY

LIMITS OF GIS INFORMATION SURVEY

EXISTING LIGHT POLE (TYP.)

EXISTING WOOD BIRD HOUSE

18" FES
INV: 305.04'

18" RCP

18" FES
INV: 304.12'

24" FES
INV: 296.79'

24" RCP

EXISTING METAL GATE

EXTENTS OF EXISTING NO-MOW AREA

LIMITS OF SITE SURVEY; INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

MATCHLINE - SEE SHEET C1.1
MATCHLINE - SEE SHEET C1.2

EXISTING CONDITIONS LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- EXISTING PROPERTY LEASE BOUNDARY
- EXISTING EASEMENT
- EXISTING FENCE LINE
- EXISTING WATER LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING STORM LINE
- EXISTING ELECTRICAL LINE
- EXISTING NATURAL GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING IRRIGATION LINE
- EXISTING LIGHT POLE
- EXISTING CONTOUR
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING DRAIN INLET
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING ROCK
- EXISTING TREE
- EXISTING TREE CANOPY
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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FOR REFERENCE ONLY

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

EXISTING CONDITIONS ENLARGEMENT - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C1.1

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LIMITS OF SITE SURVEY; INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

EXTENTS OF EXISTING NO-MOW AREA

LIMITS OF SITE SURVEY
LIMITS OF GIS INFORMATION

EXISTING WOOD BIRD HOUSE

EXISTING MAINTENANCE SHELTER
FFE = 319.60

EXISTING MAINTENANCE SHED FFE = 319.00

EXISTING GRAVEL ACCESS DRIVE

EXISTING MAINTENANCE SHED FFE = 315.60

EXISTING CHAIN LINK FENCE

EXISTING CHAIN LINK GATE

EXISTING INFORMATIONAL SIGN

EXISTING THREE-SLAT WOOD FENCE

EXISTING MASONRY STONE RETAINING WALL

EXISTING WOOD BENCH

DI
RIM: 300.67'
INV (S): 298.86'

FEMA ZONE AE FLOODWAY BOUNDARY

EXISTING NATURAL SURFACE PATH

EXISTING DECOMPOSED GRANITE PATH

MATCHLINE - SEE SHEET C1.1

MATCHLINE - SEE SHEET C1.2

MATCHLINE - SEE SHEET C1.3

EXISTING EXPOSED AGGREGATE CONCRETE SIDEWALK

EXISTING CONCRETE RAMP

EXISTING EXPOSED AGGREGATE CONCRETE SIDEWALK

EXISTING MASONRY STONE RETAINING WALL

EXISTING STAIRCASE

EXISTING PARKING SPACE (TYP.)

EXISTING TREE (TYP.)

EXISTING LIGHT POLE (TYP.)

EXISTING CURB AND GUTTER (TYP.)

EXISTING EXPOSED AGGREGATE CONCRETE SIDEWALK

EXISTING STONE BRIDGE

EXISTING MASONRY STONE RETAINING WALL

EXISTING WOOD FENCE

EXISTING MAILBOX

EXISTING SITE SIGN (TYP.)

EXISTING LIGHT POLE (TYP.)

EXISTING MASONRY STONE SEAT WALL

EXISTING SITE SIGN

EXISTING EXPOSED AGGREGATE CONCRETE SIDEWALK

EXISTING A.E. FINLEY VISITOR'S CENTER
FFE = 301.00

EXISTING BUS PARKING SPACES

EXISTING CURB AND GUTTER (TYP.)

EXISTING MASONRY STONE WALL

EXISTING INFORMATIONAL SIGN

EXISTING CURB FLUME

EXISTING WOOD BIRD HOUSE

APPROXIMATE LOCATION OF EXISTING NATURAL SURFACE PATH

EXISTING DUMPSTER ENCLOSURE

EXISTING SERVICE AREA

20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER

EXISTING ASPHALT ACCESS DRIVE

LIMITS OF SITE SURVEY, INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS SHOWN FOR REFERENCE ONLY

LIMITS OF SITE SURVEY
LIMITS OF GIS INFORMATION

EXISTING CONDITIONS LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- EXISTING PROPERTY LEASE BOUNDARY
- EXISTING EASEMENT
- EXISTING FENCE LINE
- EXISTING WATER LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING STORM LINE
- EXISTING ELECTRICAL LINE
- EXISTING NATURAL GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING IRRIGATION LINE
- EXISTING LIGHT POLE
- EXISTING CONTOUR
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING DRAIN INLET
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING ROCK
- EXISTING TREE
- EXISTING TREE CANOPY
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

No.	REVISIONS	DATE	BY
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FOR REFERENCE ONLY

KHA PROJECT 012262021
DATE 10/01/2026
SCALE AS SHOWN
DESIGNED BY MKB
DRAWN BY SDB
CHECKED BY JDK

EXISTING CONDITIONS ENLARGEMENT - MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C1.2

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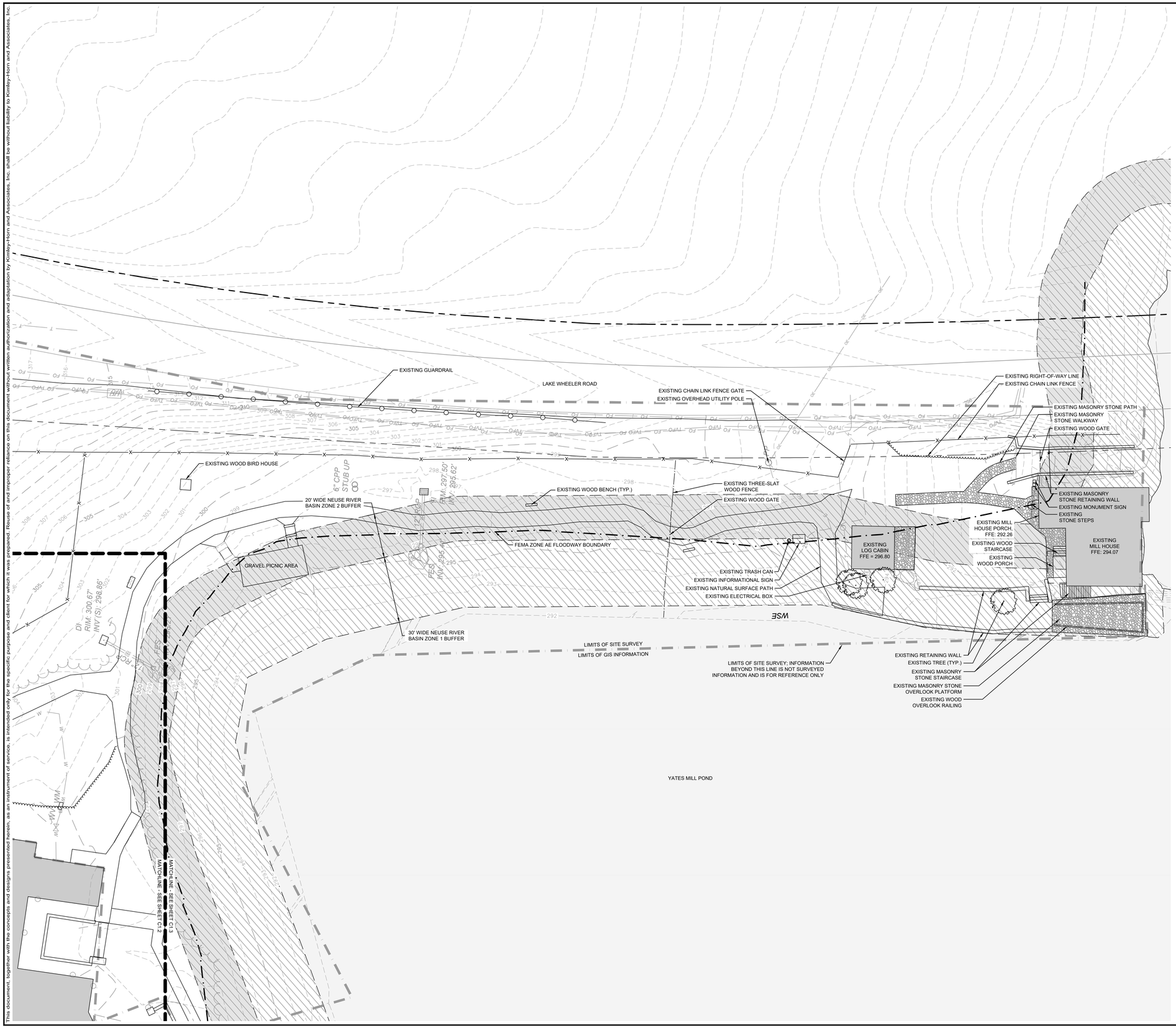

EXISTING CONDITIONS LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- EXISTING PROPERTY LEASE BOUNDARY
- EXISTING EASEMENT
- EXISTING FENCE LINE
- EXISTING WATER LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING STORM LINE
- EXISTING ELECTRICAL LINE
- EXISTING NATURAL GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING IRRIGATION LINE
- EXISTING LIGHT POLE
- EXISTING CONTOUR
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING DRAIN INLET
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING ROCK
- EXISTING TREE
- EXISTING TREE CANOPY
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

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FOR REFERENCE ONLY

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

EXISTING CONDITIONS ENLARGEMENT - THE MILL

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C1.3

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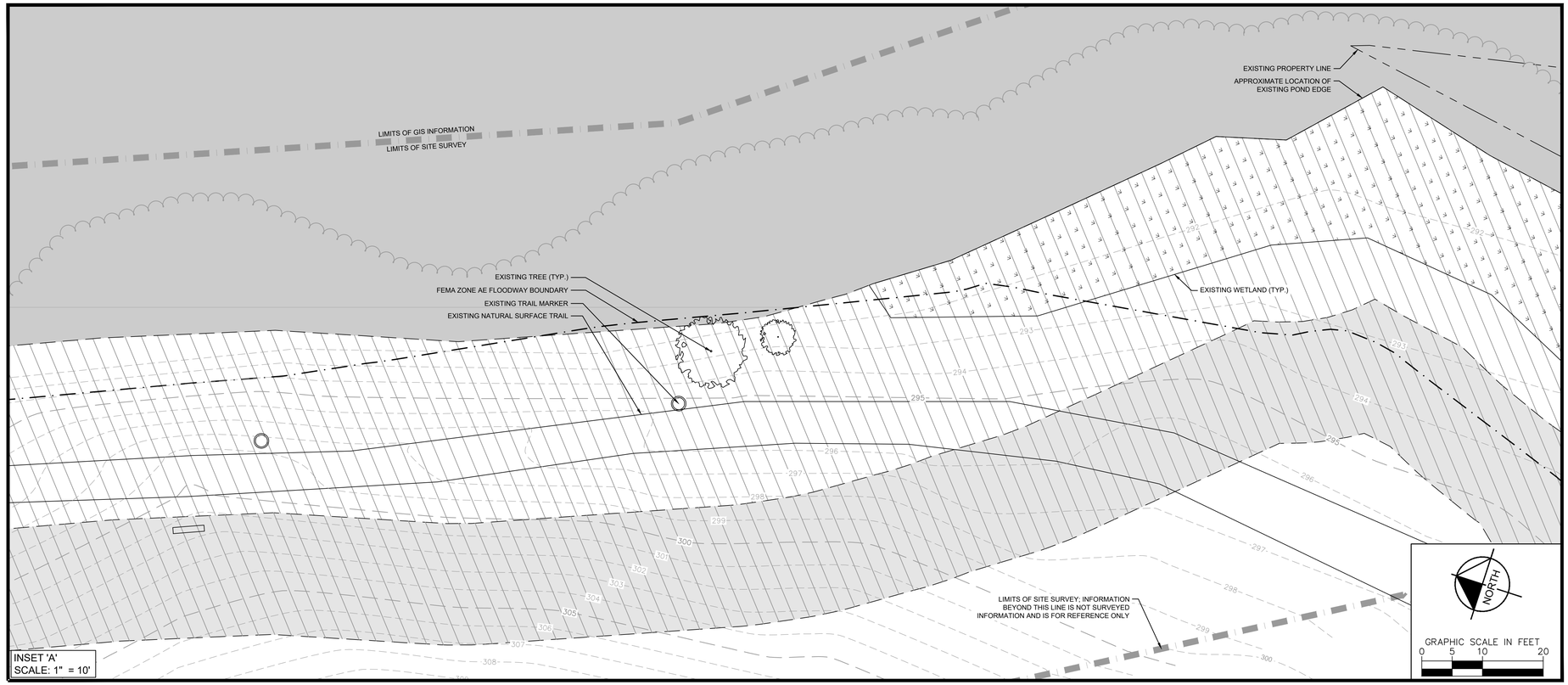
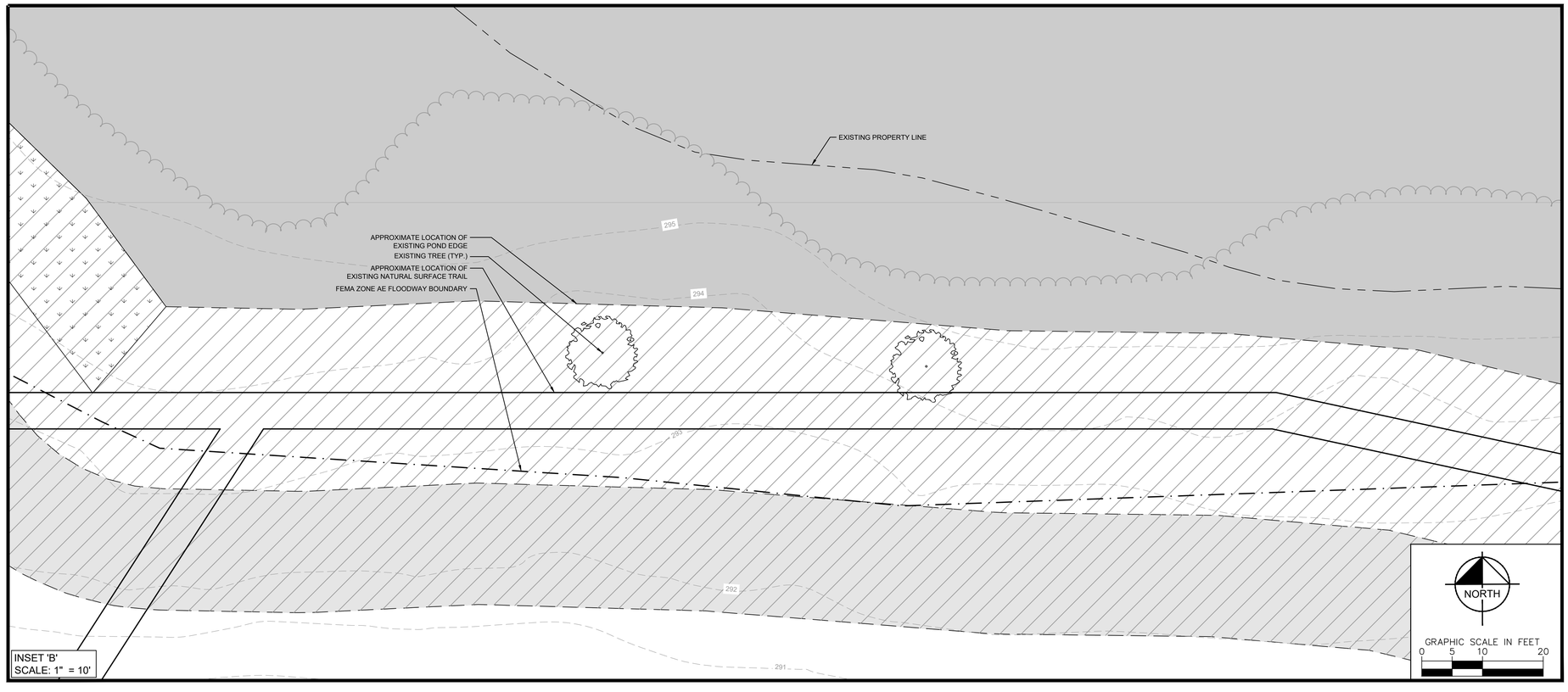


INSET 'A'
SCALE: 1" = 10'



INSET 'B'
SCALE: 1" = 10'

EXISTING CONDITIONS LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- EXISTING PROPERTY LEASE BOUNDARY
- EXISTING EASEMENT
- EXISTING FENCE LINE
- EXISTING WATER LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING STORM LINE
- EXISTING ELECTRICAL LINE
- EXISTING NATURAL GAS LINE
- EXISTING FIBER OPTIC LINE
- EXISTING IRRIGATION LINE
- EXISTING LIGHT POLE
- EXISTING CONTOUR
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING DRAIN INLET
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING ROCK
- EXISTING TREE
- EXISTING TREE CANOPY
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

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FOR REFERENCE ONLY

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

EXISTING CONDITIONS ENLARGEMENT - MILL POND OVERLOOK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C1.4

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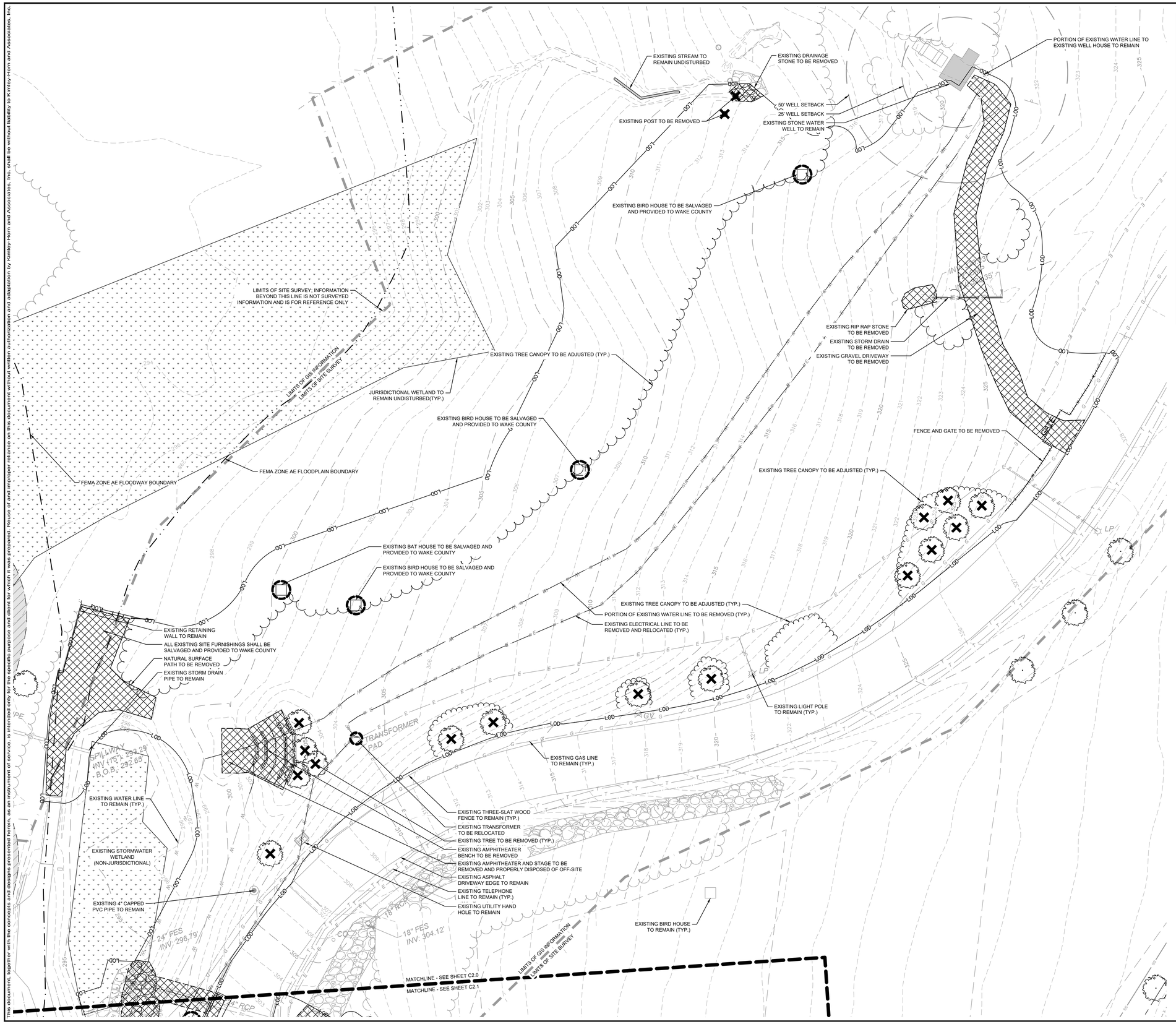

DEMOLITION LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LOD — LIMITS OF DISTURBANCE
- SITE ITEM TO BE REMOVED
- UNDERGROUND UTILITY TO BE REMOVED
- SAWCUT
- SITE ITEM TO BE REMOVED
- PAVEMENT/GRAVEL TO BE REMOVED
- SITE ITEM TO BE REMOVED AND RELOCATED
- EXISTING TREE TO BE REMOVED
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL REMOVAL EFFORTS WITH THE OWNER. COORDINATION ITEMS ARE ANTICIPATED TO INCLUDE SITE ACCESS, TRAFFIC CONTROL, MAINTENANCE OF ACCESS AND UTILITIES FOR EXISTING BUILDINGS TO REMAIN, AND EROSION CONTROL.
2. ALL FEATURES MARKED TO BE ABANDONED IN PLACE SHALL REMAIN IN EXISTING CONDITION UNLESS REMOVED THROUGH EFFORTS FOR OTHER FEATURES.
3. SPECIAL CARE SHALL BE TAKEN TO PROTECT AND MAINTAIN ALL EXISTING FEATURES NOT MARKED FOR REMOVAL. IN THE EVENT OF ANY IMPACT TO SUCH FEATURES, THE CONTRACTOR SHALL PERFORM REPAIR AND/OR RESTORATION TO ORIGINAL CONDITION AS OF START OF WORK.
4. WHERE PAVEMENT REMOVAL AREAS ABUT OTHER PAVEMENT AREAS TO REMAIN, THE EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A BOUNDARY WHICH IS STRAIGHT AND CLEAN IN APPEARANCE.
5. ALL SANITARY SEWER MAIN FEATURES WILL GENERALLY BE PROTECTED IN PLACE UNLESS SPECIFICALLY MARKED FOR REMOVAL.
6. THE CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF OF THE CONSTRUCTION SITE.
7. REFER TO SITE PLAN FOR SITE FEATURES WITHIN DEMOLISHED AREA.
8. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY ON UTILITY RELOCATIONS PRIOR TO CONSTRUCTION.
9. ADJUST ALL UTILITY RIM ELEVATIONS TO PROPOSED GRADES.
10. TREES AND VEGETATION SHALL BE FULLY REMOVED WITHIN ALL LIMITS OF DISTURBANCE.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

DEMOLITION PLAN ENLARGEMENT - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
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DEMOLITION LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LOD — LIMITS OF DISTURBANCE
- SITE ITEM TO BE REMOVED
- UNDERGROUND UTILITY TO BE REMOVED
- SAWCUT
- SITE ITEM TO BE REMOVED
- PAVEMENT/GRAVEL TO BE REMOVED
- SITE ITEM TO BE REMOVED AND RELOCATED
- EXISTING TREE TO BE REMOVED
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL REMOVAL EFFORTS WITH THE OWNER. COORDINATION ITEMS ARE ANTICIPATED TO INCLUDE SITE ACCESS, TRAFFIC CONTROL, MAINTENANCE OF ACCESS AND UTILITIES FOR EXISTING BUILDINGS TO REMAIN, AND EROSION CONTROL.
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4. WHERE PAVEMENT REMOVAL AREAS ABUT OTHER PAVEMENT AREAS TO REMAIN, THE EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A BOUNDARY WHICH IS STRAIGHT AND CLEAN IN APPEARANCE.
5. ALL SANITARY SEWER MAIN FEATURES WILL GENERALLY BE PROTECTED IN PLACE UNLESS SPECIFICALLY MARKED FOR REMOVAL.
6. THE CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF OF THE CONSTRUCTION SITE.
7. REFER TO SITE PLAN FOR SITE FEATURES WITHIN DEMOLISHED AREA.
8. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY ON UTILITY RELOCATIONS PRIOR TO CONSTRUCTION.
9. ADJUST ALL UTILITY RIM ELEVATIONS TO PROPOSED GRADES.
10. TREES AND VEGETATION SHALL BE FULLY REMOVED WITHIN ALL LIMITS OF DISTURBANCE.

GRAPHIC SCALE IN FEET
0 10 20 40

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1982 MELISSA KAY BRAND 10/01/2026

KHA PROJECT	012282021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

DEMOLITION PLAN ENLARGEMENT - MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C2.1

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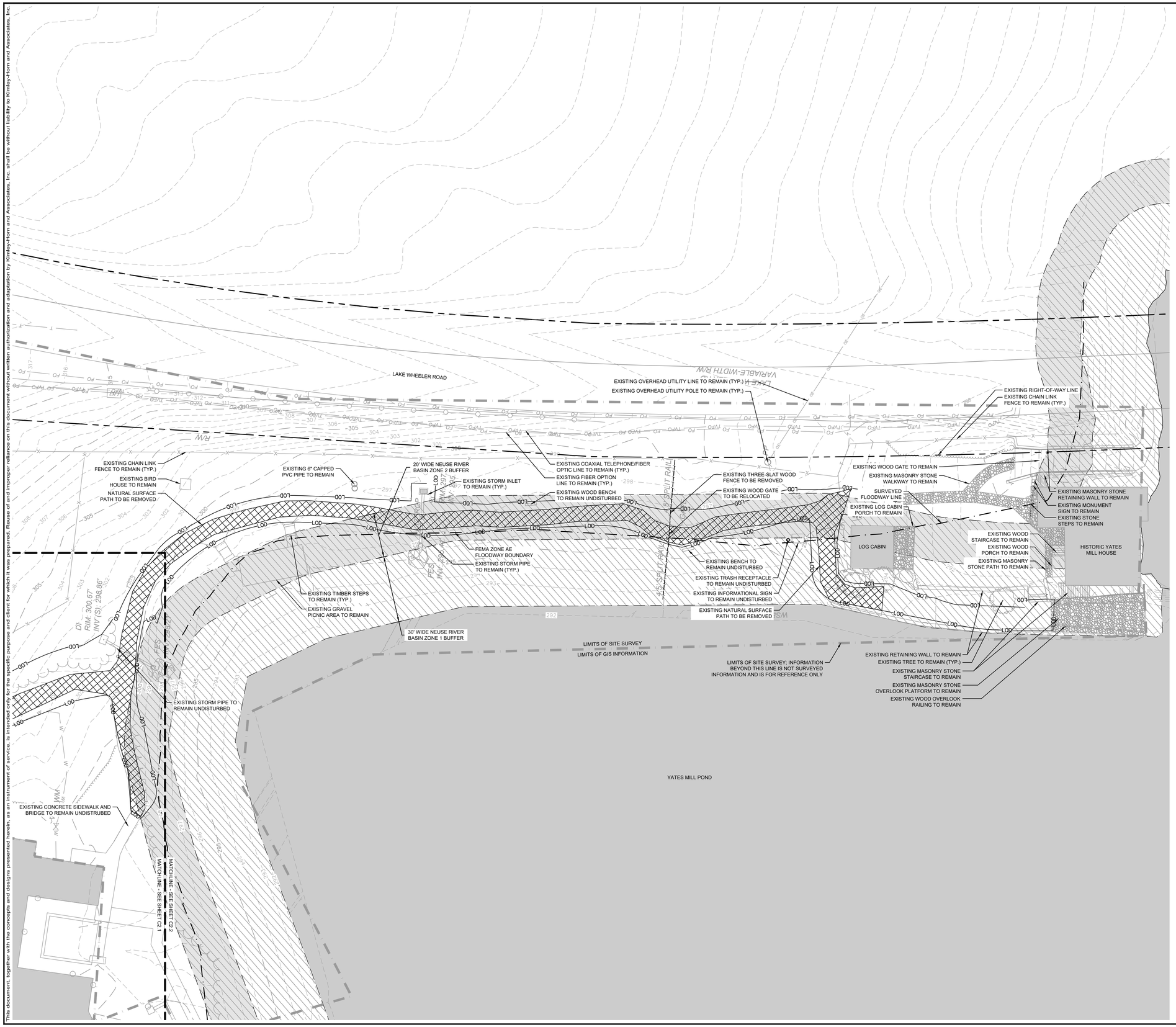

DEMOLITION LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LIMITS OF DISTURBANCE
- SITE ITEM TO BE REMOVED
- UNDERGROUND UTILITY TO BE REMOVED
- SAWCUT
- SITE ITEM TO BE REMOVED
- PAVEMENT/GRAVEL TO BE REMOVED
- SITE ITEM TO BE REMOVED AND RELOCATED
- EXISTING TREE TO BE REMOVED
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

DEMOLITION NOTES:

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7. REFER TO SITE PLAN FOR SITE FEATURES WITHIN DEMOLISHED AREA.
8. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY ON UTILITY RELOCATIONS PRIOR TO CONSTRUCTION.
9. ADJUST ALL UTILITY RIM ELEVATIONS TO PROPOSED GRADES.
10. TREES AND VEGETATION SHALL BE FULLY REMOVED WITHIN ALL LIMITS OF DISTURBANCE.

NORTH

GRAPHIC SCALE IN FEET
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No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

DEMOLITION PLAN ENLARGEMENT - THE MILL

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C2.2

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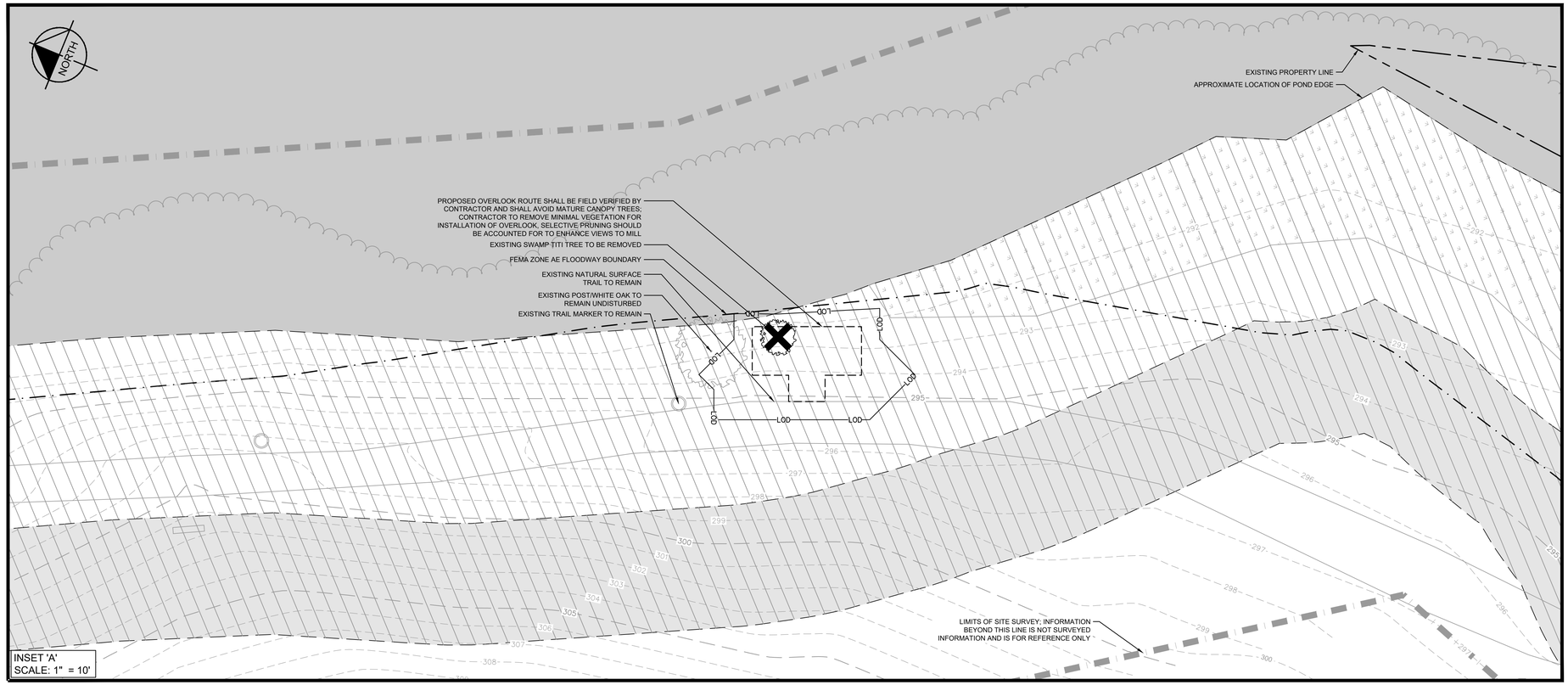

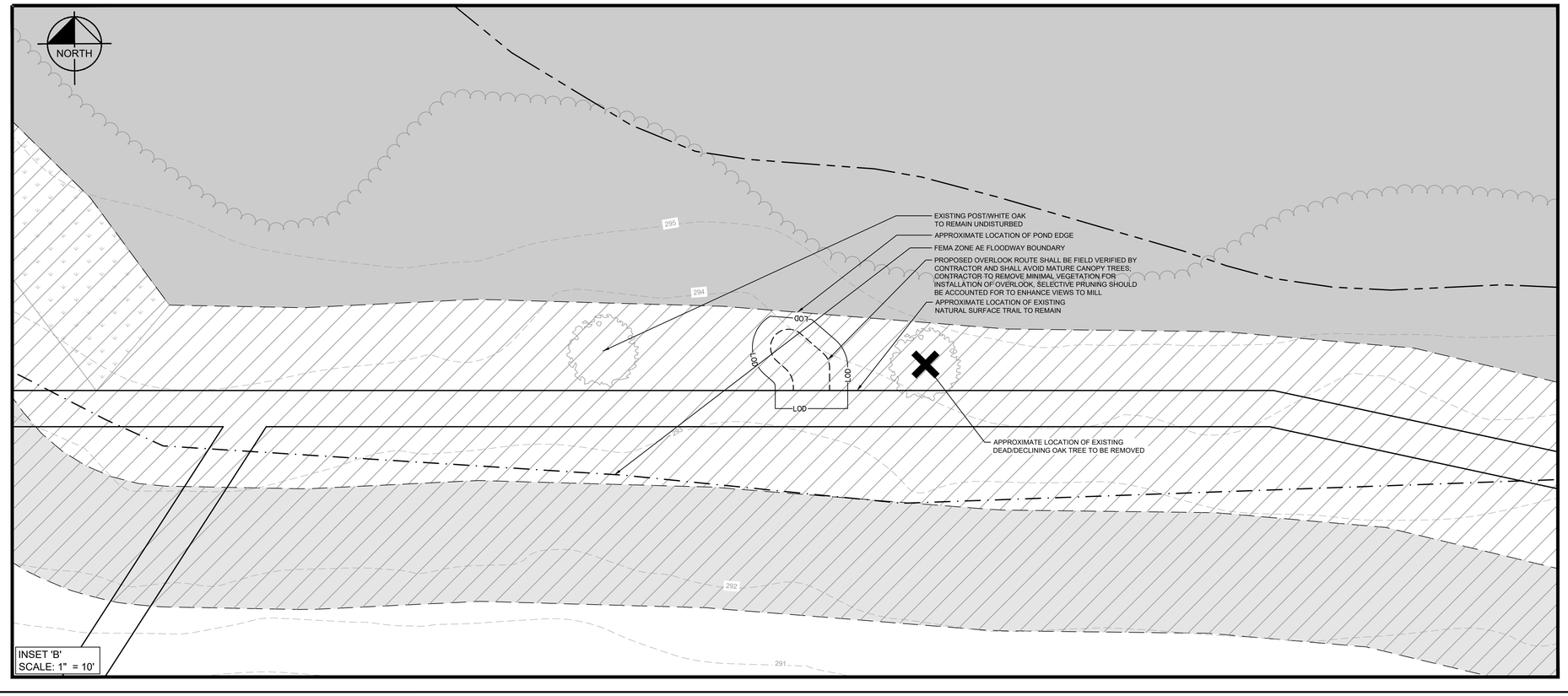

DEMOLITION LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LIMITS OF DISTURBANCE
- SITE ITEM TO BE REMOVED
- UNDERGROUND UTILITY TO BE REMOVED
- SAWCUT
- SITE ITEM TO BE REMOVED
- PAVEMENT/GRAVEL TO BE REMOVED
- SITE ITEM TO BE REMOVED AND RELOCATED
- EXISTING TREE TO BE REMOVED
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

OVERLOOK DEMOLITION NOTES:

1. CONTRACTOR SHALL UTILIZE EXISTING NATURAL SURFACE PATH FOR ACCESS TO OVERLOOK LOCATIONS DURING CONSTRUCTION. DISTURBANCE TO EXISTING VEGETATION SHALL BE MINIMAL AT THE SITE OF THE OVERLOOKS ONLY. ANY SIGNIFICANT DAMAGE TO EXISTING VEGETATION NOT INDICATED AS TO BE REMOVED SHALL BE REPLACED TO MATCH THE EXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL REMOVAL EFFORTS WITH THE OWNER. COORDINATION ITEMS ARE ANTICIPATED TO INCLUDE SITE ACCESS, TRAFFIC CONTROL, MAINTENANCE OF ACCESS AND UTILITIES FOR EXISTING BUILDINGS TO REMAIN, AND EROSION CONTROL.
2. ALL FEATURES MARKED TO BE ABANDONED IN PLACE SHALL REMAIN IN EXISTING CONDITION UNLESS REMOVED THROUGH EFFORTS FOR OTHER FEATURES.
3. SPECIAL CARE SHALL BE TAKEN TO PROTECT AND MAINTAIN ALL EXISTING FEATURES NOT MARKED FOR REMOVAL. IN THE EVENT OF ANY IMPACT TO SUCH FEATURES, THE CONTRACTOR SHALL PERFORM REPAIR AND/OR RESTORATION TO ORIGINAL CONDITION AS OF START OF WORK.
4. WHERE PAVEMENT REMOVAL AREAS ABUT OTHER PAVEMENT AREAS TO REMAIN, THE EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A BOUNDARY WHICH IS STRAIGHT AND CLEAN IN APPEARANCE.
5. ALL SANITARY SEWER MAIN FEATURES WILL GENERALLY BE PROTECTED IN PLACE UNLESS SPECIFICALLY MARKED FOR REMOVAL.
6. THE CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS OFF OF THE CONSTRUCTION SITE.
7. REFER TO SITE PLAN FOR SITE FEATURES WITHIN DEMOLISHED AREA.
8. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY ON UTILITY RELOCATIONS PRIOR TO CONSTRUCTION.
9. ADJUST ALL UTILITY RIM ELEVATIONS TO PROPOSED GRADES.
10. TREES AND VEGETATION SHALL BE FULLY REMOVED WITHIN ALL LIMITS OF DISTURBANCE.

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10/01/2026

KHA PROJECT	012262021
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DEMOLITION PLAN ENLARGEMENT - MILL POND OVERLOOK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY, NORTH CAROLINA

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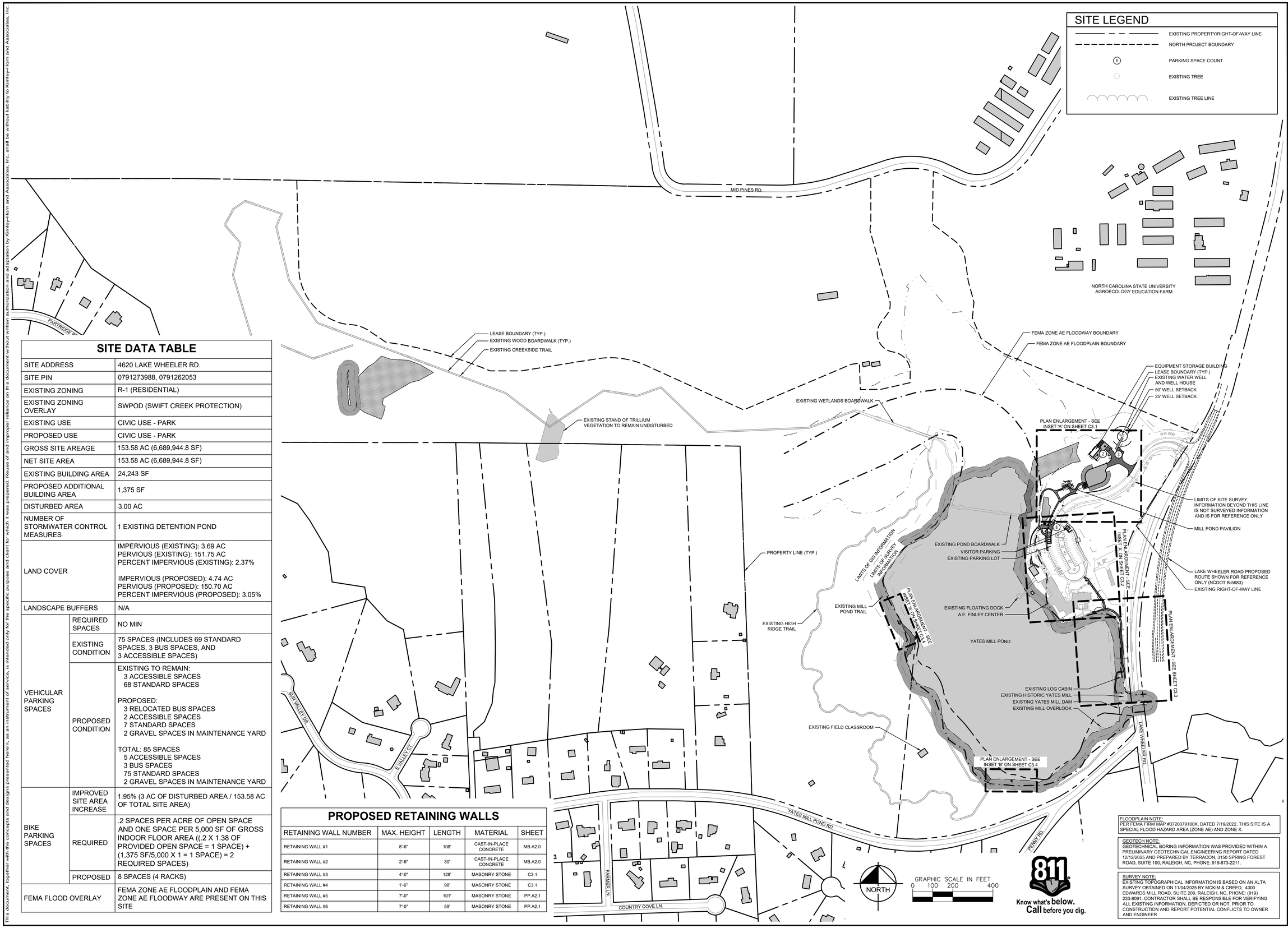

SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- NORTH PROJECT BOUNDARY
- (6) PARKING SPACE COUNT
- EXISTING TREE
- EXISTING TREE LINE

SITE DATA TABLE

SITE ADDRESS		4620 LAKE WHEELER RD.
SITE PIN		0791273988, 0791262053
EXISTING ZONING		R-1 (RESIDENTIAL)
EXISTING ZONING OVERLAY		SWPOD (SWIFT CREEK PROTECTION)
EXISTING USE		CIVIC USE - PARK
PROPOSED USE		CIVIC USE - PARK
GROSS SITE AREAGE		153.58 AC (6,689,944.8 SF)
NET SITE AREA		153.58 AC (6,689,944.8 SF)
EXISTING BUILDING AREA		24,243 SF
PROPOSED ADDITIONAL BUILDING AREA		1,375 SF
DISTURBED AREA		3.00 AC
NUMBER OF STORMWATER CONTROL MEASURES		1 EXISTING DETENTION POND
LAND COVER		IMPERVIOUS (EXISTING): 3.69 AC PERVIOUS (EXISTING): 151.75 AC PERCENT IMPERVIOUS (EXISTING): 2.37% IMPERVIOUS (PROPOSED): 4.74 AC PERVIOUS (PROPOSED): 150.70 AC PERCENT IMPERVIOUS (PROPOSED): 3.05%
LANDSCAPE BUFFERS		N/A
VEHICULAR PARKING SPACES	REQUIRED SPACES	NO MIN
	EXISTING CONDITION	75 SPACES (INCLUDES 69 STANDARD SPACES, 3 BUS SPACES, AND 3 ACCESSIBLE SPACES)
	PROPOSED CONDITION	EXISTING TO REMAIN: 3 ACCESSIBLE SPACES 68 STANDARD SPACES PROPOSED: 3 RELOCATED BUS SPACES 2 ACCESSIBLE SPACES 7 STANDARD SPACES 2 GRAVEL SPACES IN MAINTENANCE YARD TOTAL: 85 SPACES 5 ACCESSIBLE SPACES 3 BUS SPACES 75 STANDARD SPACES 2 GRAVEL SPACES IN MAINTENANCE YARD
BIKE PARKING SPACES	IMPROVED SITE AREA INCREASE	1.95% (3 AC OF DISTURBED AREA / 153.58 AC OF TOTAL SITE AREA)
	REQUIRED	.2 SPACES PER ACRE OF OPEN SPACE AND ONE SPACE PER 5,000 SF OF GROSS INDOOR FLOOR AREA ((.2 X 1.38 OF PROVIDED OPEN SPACE = 1 SPACE) + (1,375 SF/5,000 X 1 = 1 SPACE) = 2 REQUIRED SPACES)
	PROPOSED	8 SPACES (4 RACKS)
FEMA FLOOD OVERLAY		FEMA ZONE AE FLOODPLAIN AND FEMA ZONE AE FLOODWAY ARE PRESENT ON THIS SITE

PROPOSED RETAINING WALLS

RETAINING WALL NUMBER	MAX. HEIGHT	LENGTH	MATERIAL	SHEET
RETAINING WALL #1	8'-6"	108'	CAST-IN-PLACE CONCRETE	MB.A2.0
RETAINING WALL #2	2'-6"	30'	CAST-IN-PLACE CONCRETE	MB.A2.0
RETAINING WALL #3	4'-0"	128'	MASONRY STONE	C3.1
RETAINING WALL #4	1'-6"	98'	MASONRY STONE	C3.1
RETAINING WALL #5	7'-0"	101'	MASONRY STONE	PP.A2.1
RETAINING WALL #6	7'-0"	59'	MASONRY STONE	PP.A2.1

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

811 Know what's below. Call before you dig.

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OVERALL SITE PLAN

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

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LIMITS OF SITE SURVEY; INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

EXISTING WETLAND (TYP.)

FEMA ZONE AE FLOODPLAIN BOUNDARY

FEMA ZONE AE FLOODWAY BOUNDARY

EXISTING WETLAND (TYP.)

LITTER RECEPTACLE, SEE DETAIL 1.1/C3.7 FOR MORE INFORMATION

MILL POND PAVILION, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

PROPOSED TREE CANOPY

6' ACCESSIBLE PICNIC TABLE, SEE DETAIL 2/C3.7 FOR MORE INFORMATION

DRAINAGE FEATURE WITH LANDSCAPE BOULDERS, SEE DETAIL 2/C3.8 FOR MORE INFORMATION

20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

EXISTING RETAINING WALL

EXISTING TREE CANOPY

EXPOSED AGGREGATE SIDEWALK, SEE DETAIL 2.1/C3.5 FOR MORE INFORMATION

CONCRETE STAIRCASE WITH LANDING, SEE DETAIL 2/C3.6 FOR MORE INFORMATION

EXISTING WOOD BRIDGE TO REMAIN UNDISTURBED

6' WIDE EXPOSED AGGREGATE CONCRETE SIDEWALK, SEE DETAIL 2.1/C3.5 FOR MORE INFORMATION

STONE MASONRY RETAINING WALL #6, SEE STRUCTURAL PLANS FOR FULL CONCRETE WALL AND FOOTING DESIGN, SEE DETAIL 12/C3.5 FOR VENEER INFORMATION

WAGON EXHIBIT, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION, CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING WAGON TO THIS LOCATION

STONE MASONRY RETAINING WALL #5, SEE STRUCTURAL PLANS FOR FULL CONCRETE WALL AND FOOTING DESIGN, SEE DETAIL 12/C3.5 FOR VENEER INFORMATION

STONE MASONRY RETAINING WALL #4 TO MATCH EXISTING ON SITE, SEE DETAIL 5/C3.8 FOR MORE INFORMATION

EXISTING WOOD FENCE (TYP.)

EXISTING LIGHT POLE

MATCHLINE - SEE SHEET C3.1

MATCHLINE - SEE SHEET C3.2

SITE RETAINING WALL #1, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

BULK STORAGE AREA ON HEAVY-DUTY CONCRETE, SEE DETAIL 4/C3.5 FOR MORE INFORMATION

STEEL BOLLARD WITH LDPE SLEEVE, SEE DETAIL 3/C3.6 FOR MORE INFORMATION

SITE RETAINING WALL, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

CONCRETE SIDEWALK, SEE DETAIL 1/C3.5 FOR MORE INFORMATION

APPROXIMATE LOCATION OF SECURITY CAMERA, SEE PLANS BY PROTUS3 FOR FINAL DESIGN

REINFORCED ABC GRAVEL, SEE DETAIL 5/C3.5 FOR MORE INFORMATION

FOUNDATION WALL TO END, SITE WALL TO BEGIN AT THIS POINT, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

PROPOSED EQUIPMENT STORAGE BUILDING, SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION

12" WIDE CONCRETE RIBBON CURB, SEE DETAIL 7/C3.5 FOR MORE INFORMATION

FOUNDATION WALL TO END, SITE WALL TO BEGIN AT THIS POINT, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

SITE RETAINING WALL #2, SEE ARCHITECTURAL PLANS FOR MORE INFORMATION

6" HEADER CURB TO END AT WALL FACE, SEE DETAIL 11/C3.5 FOR MORE INFORMATION

(2) STAFF PARKING SPACES

40' LONG X 6' TALL CHAIN LINK FENCE SECTION EMBEDDED INTO TOP OF CONCRETE RETAINING WALL

69' LONG CHAIN LINK FENCE SECTION EMBEDDED INTO TOP OF CONCRETE RETAINING WALL AT TOP OF WALL SLOPE. SAME HEIGHT AS FENCE SHALL BE MAINTAINED ALONG ROOF TOP OF ENTIRE MAINTENANCE BUILDING. MINIMUM OF 6' FROM PLACE OF FINISHED GRADE ON OUTSIDE OF MAINTENANCE YARD

311' LONG X 6' TALL CHAIN LINK FENCE SECTION EMBEDDED INTO TOP OF CONCRETE RETAINING WALL

8' TALL CHAIN LINK FENCE, SEE DETAIL 1/C3.6 FOR MORE INFORMATION

RELOCATED TRANSFORMER AND CONCRETE PAD

CURB FLUME WITH DRAINAGE STONE, SEE DETAIL 7/C3.6 FOR MORE INFORMATION

6" CONCRETE HEADER CURB, SEE DETAIL 11/C3.5 FOR MORE INFORMATION

EXISTING WELL HOUSE TO REMAIN UNDISTURBED

50' WELL SETBACK

25' WELL SETBACK

VEHICULAR CHAIN LINK DOUBLE SWING ACCESS GATE, GATE MUST COMPLY WITH NCFC 503.6, SEE DETAIL 1/C3.6 FOR MORE INFORMATION

REINFORCED TURF ACCESS DRIVE, SEE DETAIL 6/C3.5 FOR MORE INFORMATION

CONCRETE WHEEL STOP, SEE DETAIL 8.2/C3.6 FOR MORE INFORMATION

(3) BUS PARKING SPACES

HEAVY-DUTY ASPHALT, SEE DETAIL 9.2/C3.5 FOR MORE INFORMATION

REINFORCED TURF, SEE DETAIL 6/C3.5 FOR MORE INFORMATION

12" WIDE CONCRETE RIBBON CURB, SEE DETAIL 7/C3.5 FOR MORE INFORMATION

REINFORCED ABC GRAVEL, SEE DETAIL 5/C3.5 FOR MORE INFORMATION

EXISTING ASPHALT ENTRANCE DRIVE

EXISTING WOOD FENCE

20' EXISTING LIGHT POLE RADIUS (TYP.)

ACCESSIBLE PARKING SIGN, SEE DETAIL 5/C3.6 FOR MORE INFORMATION

ACCESSIBLE PARKING SPACE

CONCRETE WHEEL STOP, SEE DETAIL 8.1/C3.6 FOR MORE INFORMATION

LIMITS OF SITE SURVEY; INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

EXISTING BIRD HOUSE

NATURAL AREA BOUNDARY

SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- NORTH PROJECT BOUNDARY
- 8' TALL CHAIN LINK FENCE
- THREE SLAT WOOD FENCE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- STANDARD CURB AND GUTTER
- CONCRETE RIBBON CURB
- RELOCATED LIGHT POLE
- RELOCATED MAILBOX
- LITTER RECEPTACLE
- PARKING SPACE COUNT
- WHEEL STOP
- ACCESSIBLE PARKING MARKING
- ACCESSIBLE RAMP
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- EXPOSED AGGREGATE CONCRETE
- HEAVY DUTY EXPOSED AGGREGATE CONCRETE
- REINFORCED TURF
- REINFORCED ABC GRAVEL
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING SHRUB MASSING
- APPROXIMATE LOCATION OF SECURITY CAMERA, SEE PLANS BY PROTUS3 FOR FINAL DESIGN

NORTH

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SITE PLAN ENLARGEMENT - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

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LIMITS OF SITE SURVEY
LIMITS OF GIS INFORMATION

MATCHLINE - SEE SHEET C3.1
MATCHLINE - SEE SHEET C3.2

MATCHLINE - SEE SHEET C3.3
MATCHLINE - SEE SHEET C3.2

EXISTING GRAVEL ACCESS DRIVE
EXISTING MAINTENANCE SHELTER
EXISTING MAINTENANCE SHED
EXISTING CHAIN LINK FENCE
EXISTING CHAIN LINK GATE
EXISTING INFORMATIONAL SIGN
EXISTING THREE-SLAT WOOD FENCE
EXISTING MASONRY STONE RETAINING WALL
EXPOSED AGGREGATE CONCRETE SIDEWALK, SEE DETAIL 2.1/C3.5 FOR MORE INFORMATION
EXPOSED AGGREGATE CONCRETE SIDEWALK TO TIE TO EXISTING AT JOINT (TYP.)
BIKE RACK, SEE DETAIL 3/C3.8 FOR MORE INFORMATION
EXISTING WOOD BENCH
EXISTING STORM INLET (TYP.)
PROPOSED TREE CANOPY (TYP.)
FEMA ZONE AE FLOODWAY BOUNDARY
EXISTING CONCRETE SIDEWALK AND BRIDGE
EXISTING SITE WALL
EXISTING CONCRETE RAMP
EXISTING MASONRY STONE RETAINING WALL
EXISTING STAIRCASE
EXISTING MASONRY STONE SEAT WALL
EXISTING SITE WALL
EXISTING PATIO
EXISTING A.E. FINLEY VISITOR'S CENTER
EXISTING PARKING SPACE (TYP.)
EXISTING TREE (TYP.)
EXISTING CURB AND GUTTER (TYP.)
EXISTING LIGHT POLE (TYP.)
EXISTING EXPOSED AGGREGATE CONCRETE SIDEWALK
20' EXISTING LIGHT POLE RADIUS (TYP.)
PROPOSED TREE CANOPY
APPROXIMATE LOCATION OF SECURITY CAMERA, SEE PLANS BY PROTUS3 FOR FINAL DESIGN
EXISTING MASONRY STONE WALL TO REMAIN
1'-6" CURB AND GUTTER, SEE DETAIL 10/C3.5 FOR MORE INFORMATION
20' LIGHT POLE RADIUS
RELOCATED LIGHT POLE, CONTRACTOR SHALL FIELD VERIFY ELECTRICAL SERVICE LINE TO LIGHT POLE AND SUPPLEMENT ELECTRICAL LINE TO NEW LIGHT POLE LOCATION
HEAVY DUTY ASPHALT REPAIR STRIP, SEE DETAIL 9.2/C3.5 FOR MORE INFORMATION
VISITOR PARKING ON STANDARD-DUTY ASPHALT, SEE DETAIL 9.1/C3.5 FOR MORE INFORMATION
THREE-SLAT WOOD FENCE TO MATCH EXISTING, SEE DETAIL 1/C3.8 FOR MORE INFORMATION
RELOCATED MAILBOX
EXISTING SITE SIGN (TYP.)
EXISTING LIGHT POLE (TYP.)
THREE-SLAT WOOD FENCE TO MATCH EXISTING, PROPOSED SECTION SHALL MEET EXISTING FENCE AT NEAREST POST, SEE DETAIL 1/C3.8
EXISTING RESET SITE SIGN
EXISTING CURB AND GUTTER
APPROXIMATE LOCATION OF SECURITY CAMERA, SEE PLANS BY PROTUS3 FOR FINAL DESIGN
EXISTING WETLAND (TYP.)
DETECTABLE WARNING PANEL (TYP.), SEE DETAIL 9/C3.6 FOR MORE INFORMATION
BIKE RACK, SEE DETAIL 3/C3.8 FOR MORE INFORMATION
HEAVY DUTY ASPHALT REPAIR STRIP, SEE DETAIL 9.2/C3.5 FOR MORE INFORMATION
VISITOR PARKING ON STANDARD-DUTY ASPHALT
EXPOSED AGGREGATE CONCRETE SIDEWALK TO MATCH EXISTING (TYP.)
EXISTING EXPOSED AGGREGATE CONCRETE SIDEWALK
20' EXISTING LIGHT POLE RADIUS (TYP.)
EXISTING WOOD FENCE
1'-6" CURB AND GUTTER (TYP.)
RELOCATED INFORMATIONAL SIGN
EXISTING DUMPSTER ENCLOSURE
APPROXIMATE LOCATION OF EXISTING NATURAL SURFACE PATH
HIGH-VISIBILITY CROSSWALK STRIPING, SEE DETAIL 6/C3.6 FOR MORE INFORMATION
HEAVY-DUTY EXPOSED AGGREGATE CONCRETE DRIVEWAY, SEE DETAIL 2.2/C3.5 FOR MORE INFORMATION
CURB FLUME WITH DRAINAGE STONE, SEE DETAIL 7/C3.6 FOR MORE INFORMATION
EXISTING INFORMATIONAL SIGN
EXISTING THREE-SLAT WOOD FENCE (TYP.)
EXISTING SERVICE AREA
FEMA ZONE AE FLOODWAY BOUNDARY
20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER
30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
HEAVY DUTY ASPHALT (TYP.)
LIMITS OF SITE SURVEY
LIMITS OF GIS INFORMATION
LIMITS OF SITE SURVEY, INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS SHOWN FOR REFERENCE ONLY

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SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- NORTH PROJECT BOUNDARY
- 8' TALL CHAIN LINK FENCE
- THREE SLAT WOOD FENCE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- STANDARD CURB AND GUTTER
- CONCRETE RIBBON CURB
- RELOCATED LIGHT POLE
- RELOCATED MAILBOX
- LITTER RECEPTACLE
- PARKING SPACE COUNT
- WHEEL STOP
- ACCESSIBLE PARKING MARKING
- ACCESSIBLE RAMP
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- EXPOSED AGGREGATE CONCRETE
- HEAVY DUTY EXPOSED AGGREGATE CONCRETE
- REINFORCED TURF
- REINFORCED ABC GRAVEL
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING SHRUB MASSING
- APPROXIMATE LOCATION OF SECURITY CAMERA, SEE PLANS BY PROTUS3 FOR FINAL DESIGN

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SITE PLAN ENLARGEMENT - MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
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LAKE WHEELER ROAD PROPOSED ROUTE; SHOWN FOR REFERENCE ONLY

LAKE WHEELER ROAD

EXISTING CHAIN LINK FENCE GATE

EXISTING OVERHEAD UTILITY POLE

EXISTING RIGHT-OF-WAY LINE

EXISTING CHAIN LINK FENCE

EXISTING GUARDRAIL AT ROAD EDGE

EXISTING BIRD HOUSE

EXISTING CHAIN LINK FENCE

EXISTING STORM INLET (TYP.)

EXPOSED AGGREGATE CONCRETE SIDEWALK (TYP.)

EXISTING THREE-SLAT WOOD FENCE TO BE MODIFIED TO ACCOUNT FOR GATE RELOCATION

EXISTING WOOD BENCH

EXISTING RELOCATED THREE-SLAT WOOD GATE

EXISTING MASONRY STONE PATH

EXISTING MASONRY STONE RETAINING WALL

EXISTING MONUMENT SIGN

EXISTING STONE STEPS

EXISTING WOOD STAIRCASE

EXISTING WOOD PORCH

EXISTING MASONRY STONE PATH

EXISTING LOG CABIN

EXISTING MILL HOUSE

EXISTING WOOD BENCH

EXISTING THREE-SLAT WOOD FENCE TO BE MODIFIED TO ACCOUNT FOR GATE RELOCATION

FEMA ZONE AE FLOODWAY BOUNDARY

EXISTING INFORMATIONAL SIGN

EXPOSED AGGREGATE CONCRETE SIDEWALK

EXISTING PICNIC AREA

LIMITS OF EXISTING WETLAND

PROPOSED TREE CANOPY (TYP.)

20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER

LIMITS OF SITE SURVEY: INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

EXISTING RETAINING WALL

EXISTING TREE (TYP.)

EXISTING MASONRY STONE STAIRCASE

EXISTING MASONRY STONE OVERLOOK PLATFORM

EXISTING WOOD OVERLOOK RAILING

YATES MILL POND

MATCHLINE - SEE SHEET C3.2

MATCHLINE - SEE SHEET C3.3

R83' R75' R74' R66' R124' R116' R96' R46' R54' R104' R44' R36' R3' R8' R12' R5' R15' R10'

5' 10' 11'

SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- NORTH PROJECT BOUNDARY
- 8' TALL CHAIN LINK FENCE
- THREE SLAT WOOD FENCE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- STANDARD CURB AND GUTTER
- CONCRETE RIBBON CURB
- RELOCATED LIGHT POLE
- RELOCATED MAILBOX
- LITTER RECEPTACLE
- PARKING SPACE COUNT
- WHEEL STOP
- ACCESSIBLE PARKING MARKING
- ACCESSIBLE RAMP
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- EXPOSED AGGREGATE CONCRETE
- HEAVY DUTY EXPOSED AGGREGATE CONCRETE
- REINFORCED TURF
- REINFORCED ABC GRAVEL
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING SHRUB MASSING
- APPROXIMATE LOCATION OF SECURITY CAMERA, SEE PLANS BY PROTUS3 FOR FINAL DESIGN

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
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#F-0102 WWW.KIMLEY-HORN.COM

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

SITE PLAN ENLARGEMENT - THE MILL

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY, NORTH CAROLINA

SHEET NUMBER
C3.3

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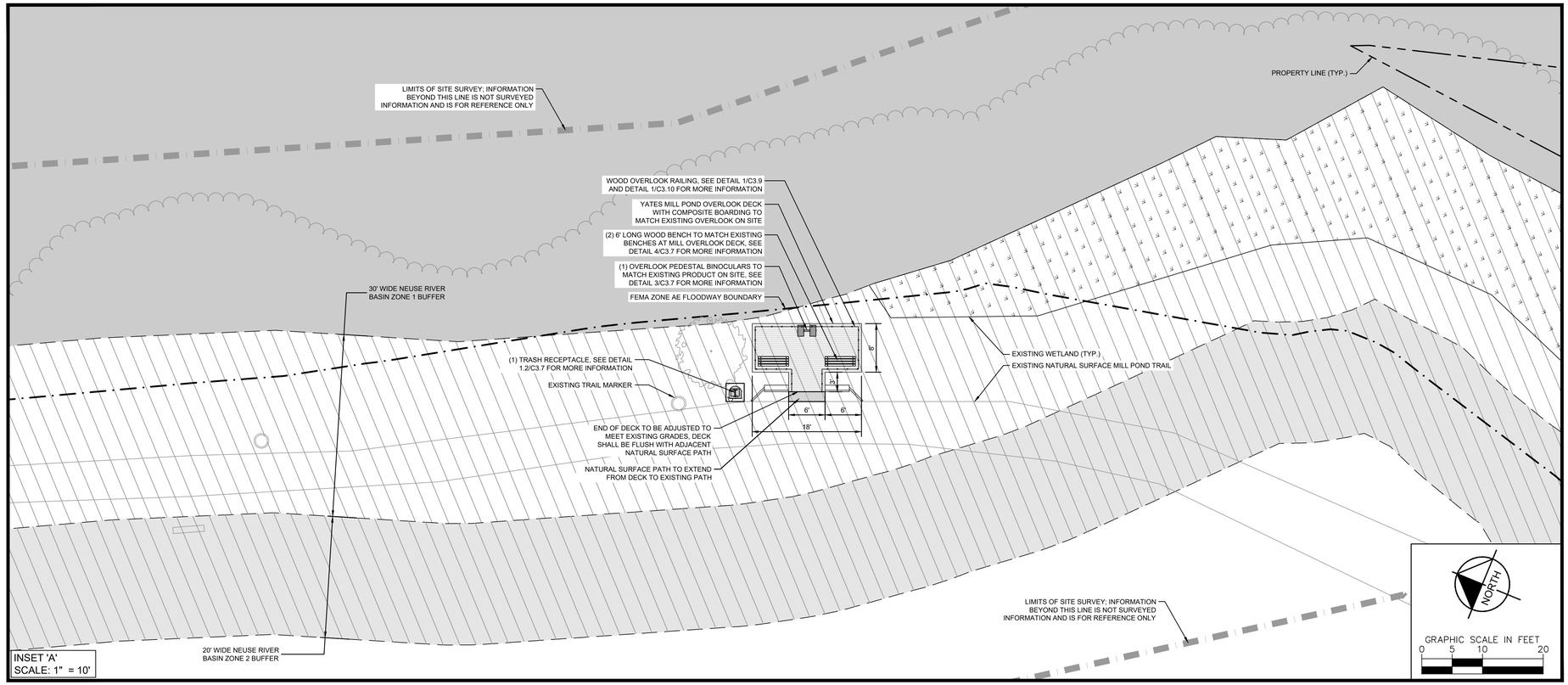
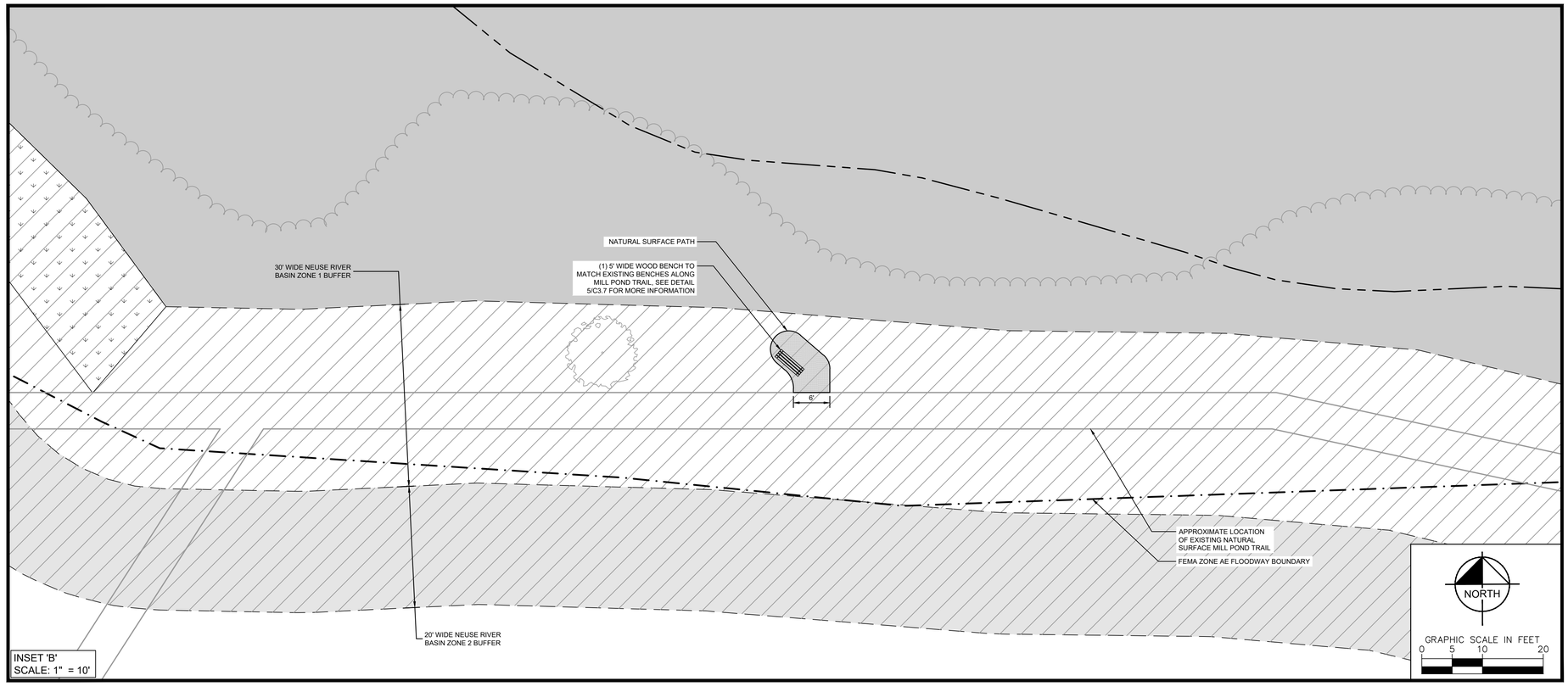


INSET 'A'
SCALE: 1" = 10'



INSET 'B'
SCALE: 1" = 10'

SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- NORTH PROJECT BOUNDARY
- 8' TALL CHAINLINK FENCE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- STANDARD CURB AND GUTTER
- TRASH RECEPTACLE
- PARKING SPACE COUNT (8)
- WHEEL STOP
- ACCESSIBLE PARKING MARKING
- ACCESSIBLE RAMP
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- EXPOSED AGGREGATE CONCRETE
- REINFORCED LAWN
- REINFORCED ABC GRAVEL
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING WETLAND
- 30' WIDE NEUSE RIVER BASIN ZONE 1 BUFFER
- 20' WIDE NEUSE RIVER BASIN ZONE 2 BUFFER

NATURAL SURFACE PATH NOTES:

1. NATURAL SURFACE TRAILS PROPOSED LOCATIONS TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD TO AVOID MATURE HARDWOOD TREES TO EXTENT FEASIBLE.
2. ANY ADJUSTMENT TO THE PROPOSED TRAIL ALIGNMENTS AS SHOWN IN THE PLANS SHALL BE COMMUNICATED TO AND COORDINATED WITH THE ENGINEER OF RECORD.
3. NO GRADING OR DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS OF DISTURBANCE. ANY ADJUSTMENTS TO THE PROPOSED LIMITS OF DISTURBANCE AS SHOWN IN THE PLANS SHALL BE COMMUNICATED TO AND COORDINATED WITH THE ENGINEER OF RECORD.
4. PROPOSED BOARDWALK ELEVATION MUST BE SET A MINIMUM OF 3 FT ABOVE THE EXISTING WETLAND WATER SURFACE ELEVATIONS. ANY CONFLICTS OR ADJUSTMENTS LOCATED IN THE FIELD SHALL BE REPORTED TO THE ENGINEER OF RECORD.
5. THE PROPOSED OVERLOOKS ARE OUTSIDE OF THE CITY OF RALEIGH AUTHORITY AND THUS SHALL CONFORM TO ALL APPLICABLE WAKE COUNTY CODES AND DESIGN STANDARDS.

No.	REVISIONS	DATE	BY
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KHA PROJECT	012262021
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SITE PLAN ENLARGEMENT - MILL POND OVERLOOK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY, NORTH CAROLINA

SHEET NUMBER
C3.4

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C3.5 SITE DETAILS October 07, 2026 02:32:10pm K:\RAL_LDEV\012262021_WakeCoPks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_Plan Sheets\C3.5 SITE DETAILS.dwg
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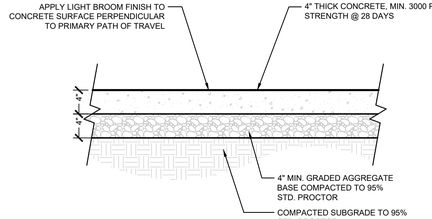
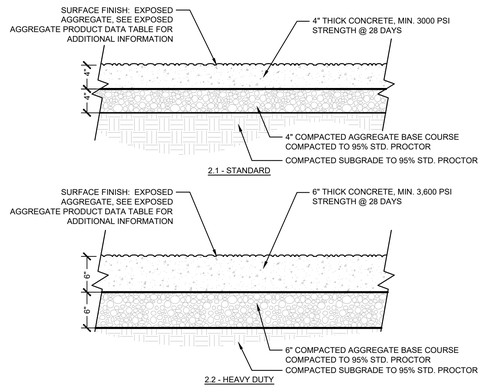
PEDESTRIAN-RATED CONCRETE NOTES:
1. CONTRACTOR SHALL CONFIRM REQUIRED MATERIAL AND COMPACTION REQUIREMENTS FOR COMPACTED ABC WITH GEOTECHNICAL ENGINEER.
2. CONTRACTOR TO SUBMIT A 5'X5' MOCK UP INCLUDING FINISH FOR APPROVAL LANDSCAPE ARCHITECT PRIOR TO INSTALLATION



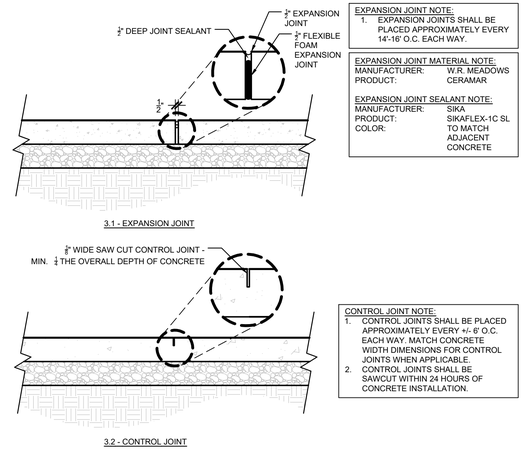
1 C3.5 STANDARD DUTY CONCRETE
1" = 1'-0" SECTION

EXPOSED AGGREGATE CONCRETE NOTES:
1. CONTRACTOR SHALL CONFIRM REQUIRED MATERIAL AND COMPACTION REQUIREMENTS FOR COMPACTED ABC WITH GEOTECHNICAL ENGINEER.

EXPOSED AGGREGATE CONCRETE PRODUCT DATA:	
CONCRETE AGGREGATE:	#3 GRANITE
CONCRETE COLOR 1:	SIKA COLOR - 140 SG BUFF
NOTES:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 2'x2' MOCK-UP OF FOR EACH OPTION AND COLOR COMBINATION FOR APPROVAL (4 TOTAL) BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.



2 C3.5 EXPOSED AGGREGATE CONCRETE
1" = 1'-0" SECTION



EXPANSION JOINT NOTE:
1. EXPANSION JOINTS SHALL BE PLACED APPROXIMATELY EVERY 14'-16' O.C. EACH WAY.

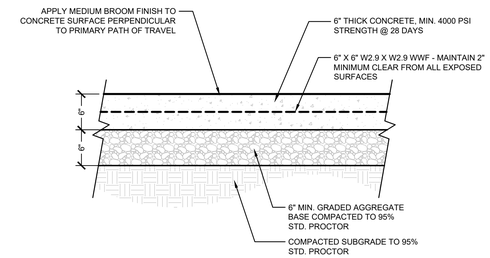
EXPANSION JOINT MATERIAL NOTE:
MANUFACTURER: W.R. MEADOWS
PRODUCT: CERAMAR

EXPANSION JOINT SEALANT NOTE:
MANUFACTURER: SIKA
PRODUCT: SIKAFLEX-1C SL
COLOR: TO MATCH ADJACENT CONCRETE

CONTROL JOINT NOTE:
1. CONTROL JOINTS SHALL BE PLACED APPROXIMATELY EVERY +/- 6' O.C. EACH WAY. MATCH CONCRETE WIDTH DIMENSIONS FOR CONTROL JOINTS WHEN APPLICABLE.
2. CONTROL JOINTS SHALL BE SAWCUT WITHIN 24 HOURS OF CONCRETE INSTALLATION.

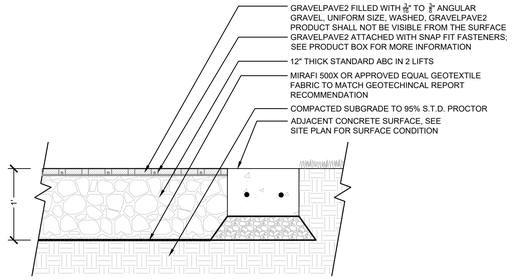
3 C3.5 CONCRETE JOINT
1" = 1'-0" SECTION

HEAVY DUTY CONCRETE NOTES:
1. CONTRACTOR SHALL CONFIRM REQUIRED MATERIAL AND COMPACTION REQUIREMENTS FOR COMPACTED ABC WITH GEOTECHNICAL ENGINEER.
2. CONTRACTOR TO SUBMIT A 24"X24" MOCK UP INCLUDING FINISH FOR APPROVAL LANDSCAPE ARCHITECT PRIOR TO INSTALLATION



4 C3.5 HEAVY DUTY CONCRETE
1" = 1'-0" SECTION

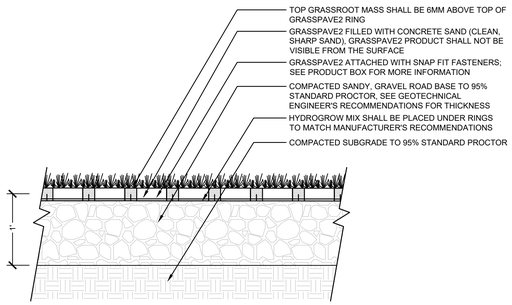
GRAVEL REINFORCEMENT PRODUCT INFORMATION:	
MANUFACTURER:	INVISIBLE STRUCTURES, INC. 3510 HIMALAYA ROAD, SUITE 200 AURORA CO, 80011
WEBSITE:	WWW.INVISIBLESTRUCTURES.COM
MODEL:	GRAVELPAVE2
COLOR:	GRANITE
INSTALLATION:	INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION'S



GENERAL NOTES:
1. 12" ABC SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOILS REPORT.
2. ABC SURFACE MATERIAL COURSE PER GEOTECHNICAL REPORT MAY NEED TO BE INCREASED IF INITIAL COURSE IS TO BE PLACED PRIOR TO THE COMMENCEMENT OF VERTICAL CONSTRUCTION.

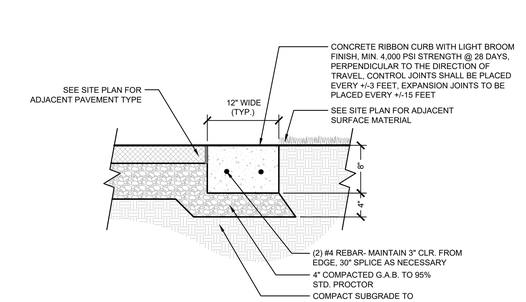
5 C3.5 REINFORCED GRAVEL DRIVEWAY
1" = 1'-0" SECTION

GRASS REINFORCEMENT PRODUCT INFORMATION:	
MANUFACTURER:	INVISIBLE STRUCTURES, INC. 3510 HIMALAYA ROAD, SUITE 200 AURORA CO, 80011
WEBSITE:	WWW.INVISIBLESTRUCTURES.COM
MODEL:	GRASSPAVE2
INSTALLATION:	INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION'S

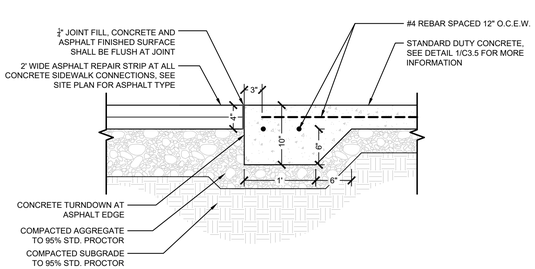


GENERAL NOTES:
1. GRAVEL ROAD BASE SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOILS REPORT.

6 C3.5 REINFORCED TURF
1" = 1'-0" SECTION

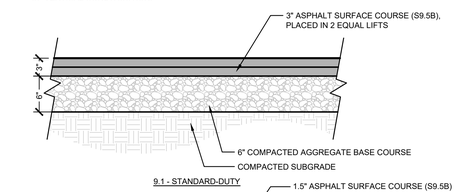


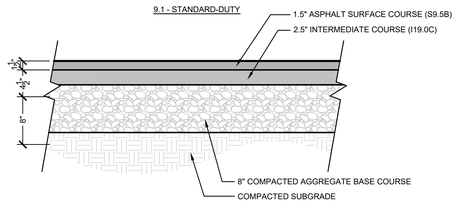
7 C3.5 CONCRETE RIBBON CURB
1" = 1'-0" SECTION



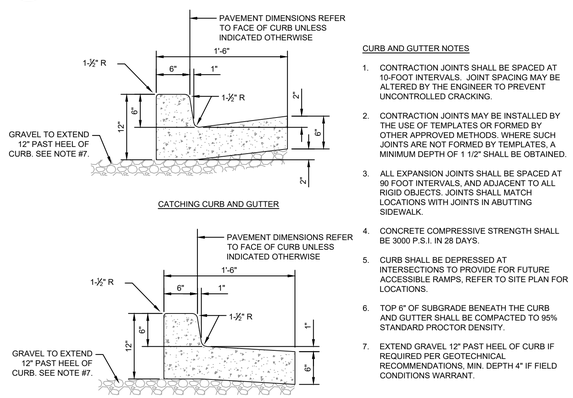
8 C3.5 CONCRETE TURNDOWN AT ASPHALT CONNECTION
1" = 1'-0" SECTION

GENERAL NOTES:
1. ALL PAVEMENT MATERIALS SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS.
2. PAVEMENT SECTION MUST MEET THE CRITERIA GIVEN IN THE SITE SOILS REPORT.
3. STANDARD DUTY PAVEMENT SECTION SURFACE COURSE PER GEOTECHNICAL REPORT MAY NEED TO BE INCREASED IF INITIAL COURSE IS TO BE PLACED PRIOR TO THE COMMENCEMENT OF VERTICAL CONSTRUCTION.





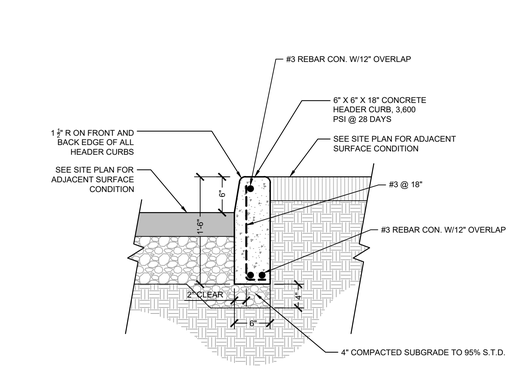
9 C3.5 ASPHALT PAVEMENT
1" = 1'-0" SECTION



CURB AND GUTTER NOTES
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 P.S.I. IN 28 DAYS.
5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS, REFER TO SITE PLAN FOR LOCATIONS.
6. TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
7. EXTEND GRAVEL 12" PAST HEEL OF CURB IF REQUIRED PER GEOTECHNICAL RECOMMENDATIONS, MIN. DEPTH 4" IF FIELD CONDITIONS WARRANT.

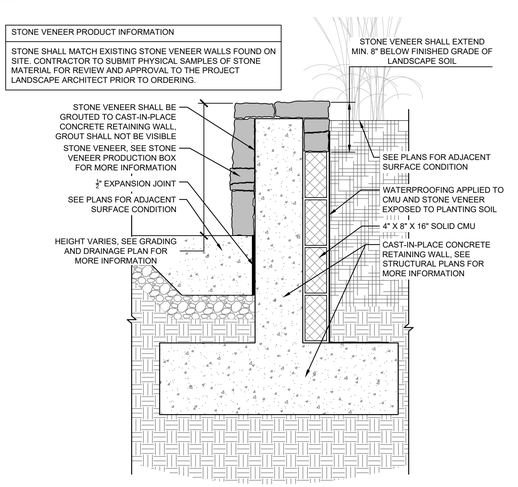
NOTE:
INSTALL SPILL CURB IN AREAS WHERE PAVEMENT SLOPES AWAY FROM CURB.

10 C3.5 CURB AND GUTTER
1" = 1'-0" SECTION



11 C3.5 CONCRETE HEADER CURB
1" = 1'-0" SECTION

STONE VENEER PRODUCT INFORMATION
STONE SHALL MATCH EXISTING STONE VENEER WALLS FOUND ON SITE. CONTRACTOR TO SUBMIT PHYSICAL SAMPLES OF STONE MATERIAL FOR REVIEW AND APPROVAL TO THE PROJECT LANDSCAPE ARCHITECT PRIOR TO ORDERING.



12 C3.5 MILL POND PAVILION RETAINING WALL VENEER
1" = 1'-0" SECTION

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND 10/01/2026

KHA PROJECT	012262021
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DRAWN BY	SDB
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SITE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C3.5

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C3.6 SITE DETAILS October 07, 2026 02:32:17pm K:\RAL_LDEV\012262021_WakeCoParks_HistoricYatesMillPlanning Phase\P1D_CAD Files\09_PlanSheets\C3.6 SITE DETAILS.dwg
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8'-0" CHAIN LINK DOUBLE SWING GATE PRODUCT INFORMATION	
MANUFACTURER:	SEEGARS FENCING COMPANY
WEBSITE:	WWW.SEEGARSFENCE.COM
MODEL:	COMMERCIAL CHAIN LINK WITH DOUBLE SWING GATE
COLOR:	BLACK
MATERIAL:	POLYOLEFIN COATED
HEIGHT:	8'-0"
NOTES:	INSTALL FENCE, GATE, AND POSTS PER MANUFACTURER'S RECOMMENDATIONS

8'-0" CHAIN LINK FENCE PRODUCT INFORMATION	
MANUFACTURER:	SEEGARS FENCING COMPANY
WEBSITE:	WWW.SEEGARSFENCE.COM
MODEL:	COMMERCIAL CHAIN LINK WITH GATE
COLOR:	BLACK
MATERIAL:	POLYOLEFIN COATED
HEIGHT:	8'-0"
NOTES:	INSTALL FENCE, GATE, AND POSTS PER MANUFACTURER'S RECOMMENDATIONS

GENERAL NOTE: ACCESS GATE SHALL COMPLY WITH NCFC 503.6.

1 C3.6 8'-0" CHAIN LINK FENCE AND DOUBLE SWING GATE

3/8" = 1'-0" — SECTION

2 C3.6 CONCRETE STAIRCASE

1/2" = 1'-0" — SECTION

3 C3.6 6" STEEL BOLLARD WITH LDPE SLEEVE

N.T.S. — SECTION

ADA PAVEMENT STRIPING NOTES:
1. SEE SITE PLAN FOR PARKING DIMENSIONS AND LAYOUT
2. DIMENSIONS SHOWN ARE MINIMUMS
3. ALL STRIPING TO CONFORM TO THE APPLICABLE LOCAL AND FEDERAL CODES
4. SIDEWALKS TO HAVE MAXIMUM 2% CROSS SLOPE AND A MAXIMUM 5% LONGITUDINAL SLOPE.
5. ADA PARKING AREAS AND ACCESSIBLE AREAS TO HAVE A MAXIMUM 2% SLOPE IN ANY DIRECTION.
6. SIDEWALK INTERSECTIONS AND STAIR/RAMP LANDINGS TO HAVE A MAXIMUM 2% SLOPE IN ANY DIRECTION.

ACCESSIBLE SYMBOL

STANDARD ACCESSIBLE SPACE

VAN ACCESSIBLE SPACE

4 C3.6 ACCESSIBLE PARKING STRIPING

1" = 1'-0" — DETAIL

STANDARD COLORS (ALL ADA SIGNS):

BACKGROUND:	WHITE
LETTERING/BORDER:	GREEN
ARROW:	GREEN

FIGURE - WHITE ON BLUE FIELD CORNER RADIUS - 1 1/2" (TYP.)

5 C3.6 ACCESSIBLE PARKING SIGNAGE

1" = 1'-0" — DETAIL

HIGH-VISIBILITY CROSSWALK NOTES:
1. HIGH-VISIBILITY CROSSWALK LINES SHOULD BE PLACED AT THE ANGLE OF THE TRAVEL LANES AND TRAVERSE THE PEDESTRIAN CROSSING.
2. CURB RAMPS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST CITY OF RALEIGH STANDARD DRAWINGS.
3. CROSSWALK STRIPES SHOULD BE PLACED TO AVOID VEHICLE WHEEL PATHS WHERE POSSIBLE. DUE TO VARYING WIDTH OF ASPHALT PAVEMENT, THIS IS MAY NOT BE POSSIBLE.
4. PEDESTRIAN CROSSWALKS TO HAVE A MAXIMUM 2% CROSS SLOPE AND MAXIMUM 5% LONGITUDINAL SLOPE WITHIN STRIPED AREA.

6 C3.6 HIGH-VISIBILITY CROSSWALK

1" = 1'-0" — DETAIL

7 C3.6 CURB FLUME

N.T.S. — DETAIL

DETECTABLE WARNING STRIP PANEL	
MANUFACTURER:	ARMOR-TILE, 325 CORPORATE DR., ELGIN, IL 60123, HTTPS://ARMOR-TILE.COM, 844-697-2920
COLOR:	BLACK

WHEEL STOP NOTES:
1. SEE SITE PLAN FOR WHEEL STOP LOCATIONS.
2. PLASTIC REINFORCEMENT GRID SHALL NOT BE PUNCTURED BY DOWEL.

8 C3.6 WHEEL STOP

1" = 1'-0" — SECTION

9 C3.6 DETECTABLE WARNING PANEL

1/2" = 1'-0" — DETAIL

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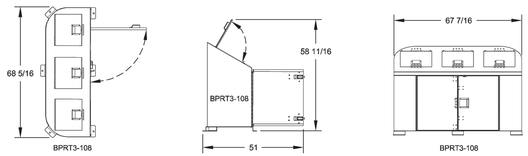
WAKE COUNTY

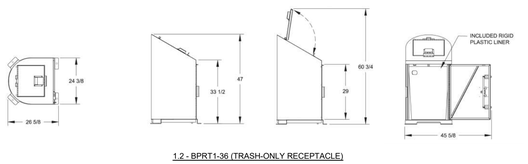
SHEET NUMBER
C3.6

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C3.7 SITE DETAILS October 07, 2026 02:31:51pm K:\RAL_LDEV\012262021 WakeCoParks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\C3.7 SITE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuser of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

LITTER RECEPTACLE PRODUCT INFORMATION:	
MANUFACTURER:	PILOT ROCK PARK PRODUCTS, PO BOX 946, CHEROKEE, IA 51012, WWW.PILOTROCK.COM, (712) 225-5115, OR APPROVED EQUAL
MODEL:	BPRT3-108 AND BPRT1-36
DECALS:	BPRT3-108 - 2 "TRASH ONLY", 1 "RECYCLE ONLY" BPRT1-36 - 1 "TRASH ONLY"
MATERIAL:	WELDED STEEL
COLOR:	POWDERCOATED GREEN (CN)
QUANTITY:	1 PER MODEL (2 TOTAL)
MOUNTING:	SURFACE MOUNTED
NOTES:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS



1.1 - BPRT3-108 (COMBINED TRASH AND RECYCLING RECEPTACLE)

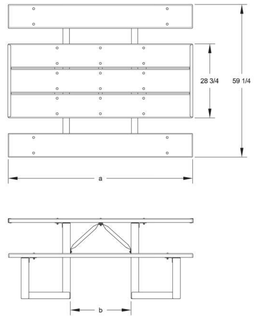


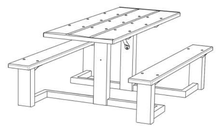
1.2 - BPRT1-36 (TRASH-ONLY RECEPTACLE)

1 C3.7 LITTER RECEPTACLE

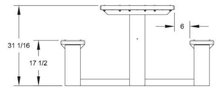
N.T.S. DETAIL

ACCESSIBLE TABLE PRODUCT INFORMATION:	
MANUFACTURER:	PILOT ROCK PARK PRODUCTS, PO BOX 946, CHEROKEE, IA 51012, WWW.PILOTROCK.COM, (712) 225-5115, OR APPROVED EQUAL
MODEL:	WPTS-6
MATERIAL:	TREATED SOUTHERN YELLOW PINE
SIZE:	6' L BY 5' W BY 30" H
QUANTITY:	6
MOUNTING:	FREESTANDING
NOTES:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS



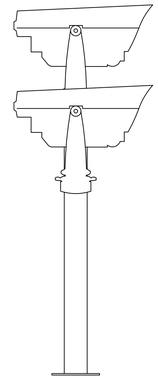


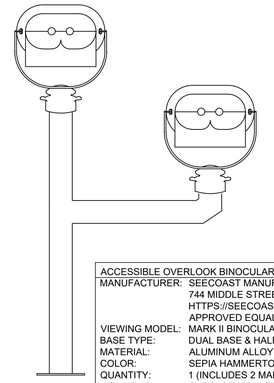
DIMENSION		
MODEL	a	b
WPTS-6	71 1/2	23 1/2
~~WPTS-5~~	~~59 1/2~~	~~17 3/4~~



2 C3.7 ACCESSIBLE WOOD PICNIC TABLE

N.T.S. DETAIL



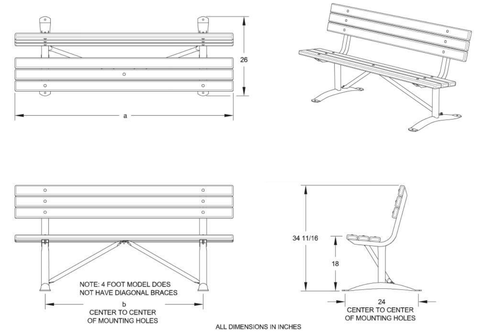


ACCESSIBLE OVERLOOK BINOCULARS PRODUCT INFORMATION:	
MANUFACTURER:	SEECOAST MANUFACTURING COMPANY, INC., 744 MIDDLE STREET, FAIRHOPE, AL 36532, HTTPS://SEECOAST.COM, (251) 928-8009, OR APPROVED EQUAL
VIEWING MODEL:	MARK II BINOCULARS
BASE TYPE:	DUAL BASE & HALF BASE
MATERIAL:	ALUMINUM ALLOY
COLOR:	SEPIA HAMMERTONE
QUANTITY:	1 (INCLUDES 2 MARK II VIEWERS)
MOUNTING:	SURFACE MOUNTED
NOTES:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS

3 C3.7 ACCESSIBLE OVERLOOK BINOCULARS

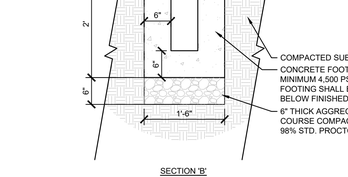
N.T.S. DETAIL

WOOD BACKED BENCH PRODUCT INFORMATION:	
MANUFACTURER:	PILOT ROCK PARK PRODUCTS, PO BOX 946, CHEROKEE, IA 51012, WWW.PILOTROCK.COM, (712) 225-5115, OR APPROVED EQUAL
MODEL:	PCXB-6
MATERIAL:	TREATED SOUTHERN YELLOW PINE
SIZE:	72" L BY 26" W BY 35"H
QUANTITY:	2
MOUNTING:	SURFACE MOUNTED
NOTES:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS



4 C3.7 WOOD BACKED BENCH

N.T.S. DETAIL



PLAN

SECTION 'A'

SECTION 'B'

5 C3.7 WOOD BACKLESS OVERLOOK BENCH

3/4" = 1'-0" PLAN/SECTION

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

SITE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C3.7

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C3.8 SITE DETAILS October 07, 2026 02:32:12pm K:\RAL_LDEV\012262021_WakeCoParks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\C3.8 SITE DETAILS.dwg
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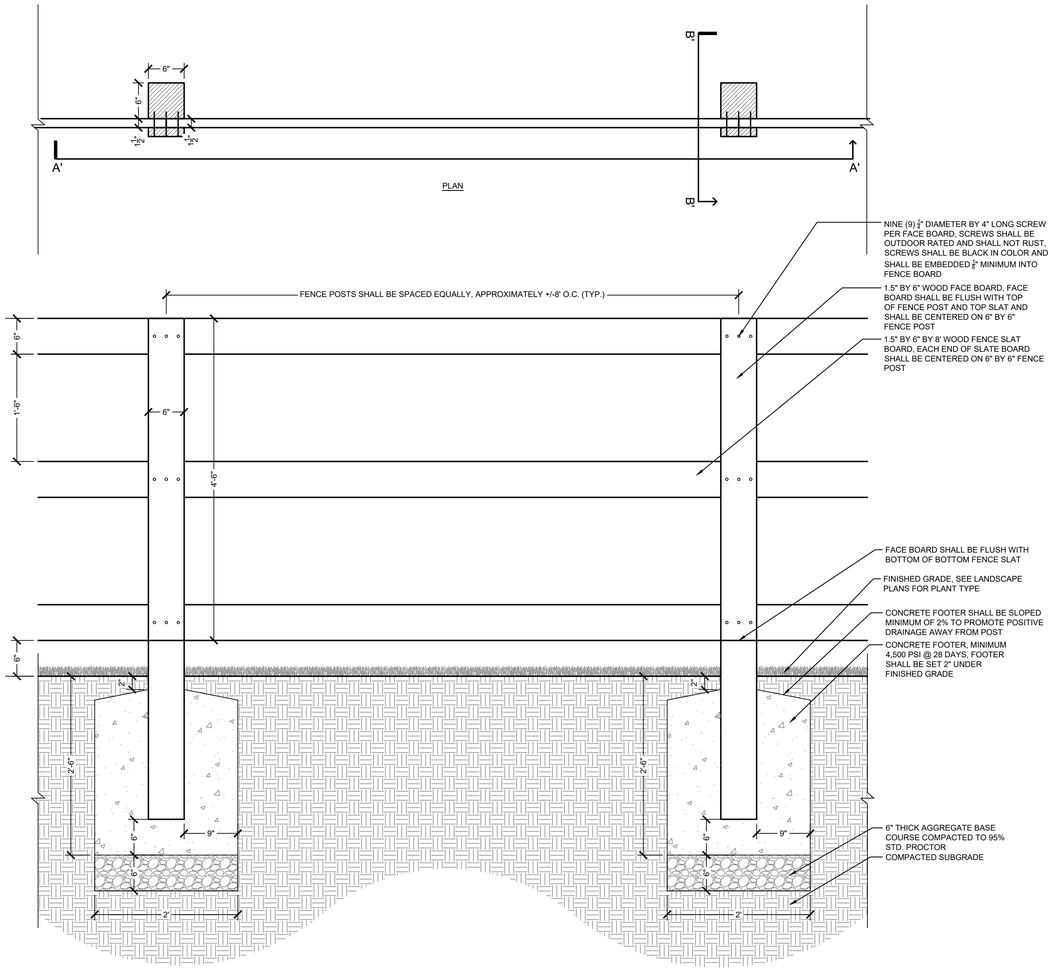
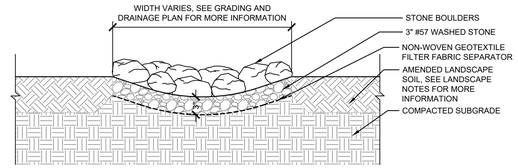


1 C3.8 THREE-SLAT WOOD FENCE

1" = 1'-0"

PLAN/SECTION

BOULDER PRODUCT INFORMATION	
MANUFACTURER:	SOUTHERN STONE SUPPLY, 6909 CAPITAL BLVD., RALEIGH, NC 27616, (919) 570-1555
PRODUCT:	5" STONE BOULDER
SIZE:	5"
COLOR:	GRAY
STYLE:	CANYON AGGREGATE

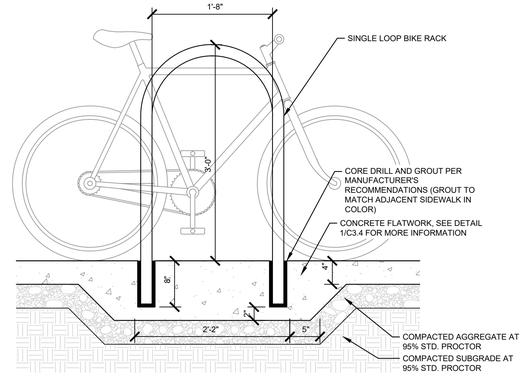


2 C3.8 LANDSCAPE BOULDER DRAINAGE FEATURE

1" = 1'-0"

DETAIL

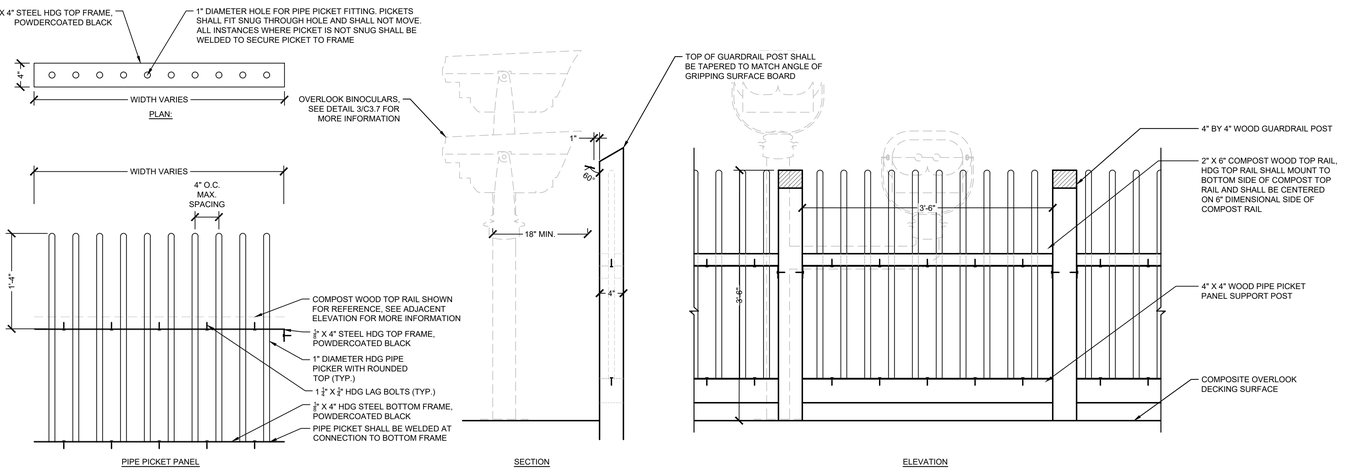
BIKE RACK PRODUCT INFORMATION	
MAUFACTURER:	BELSON, 627 AMERSALE DRIVE, NAPERVILLE, IL 60563, WWW.BELSON.COM, (800) 323-5664
MODEL:	HM-1284CG283
COLOR:	POWDER COATED BLACK
MOUNT:	EMBEDDED
QUANTITY:	4
NOTES:	INSTALL PER MANUFACTURER'S RECOMMENDATIONS



3 C3.8 BIKE RACK

1" = 1'-0"

DETAIL

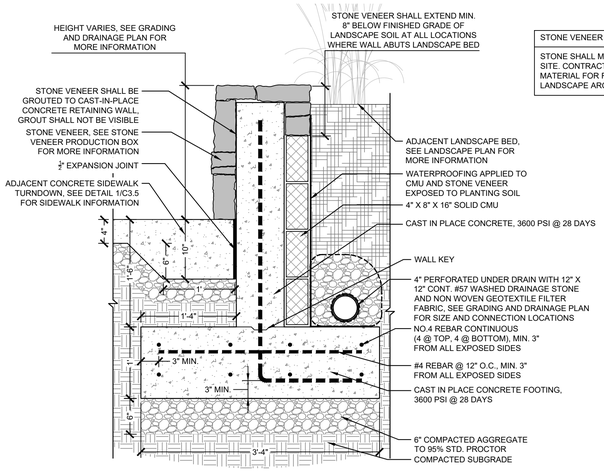


4 C3.8 OVERLOOK GUARDRAIL

1" = 1'-0"

ELEVATION

STONE VENEER PRODUCT INFORMATION
STONE SHALL MATCH EXISTING STONE VENEER WALLS FOUND ON SITE. CONTRACTOR TO SUBMIT PHYSICAL SAMPLES OF STONE MATERIAL FOR REVIEW AND APPROVAL TO THE PROJECT LANDSCAPE ARCHITECT PRIOR TO ORDERING.



5 C3.8 STONE MASONRY RETAINING WALL

1" = 1'-0"

SECTION

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT MELISSA KAY BRAND 1921
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
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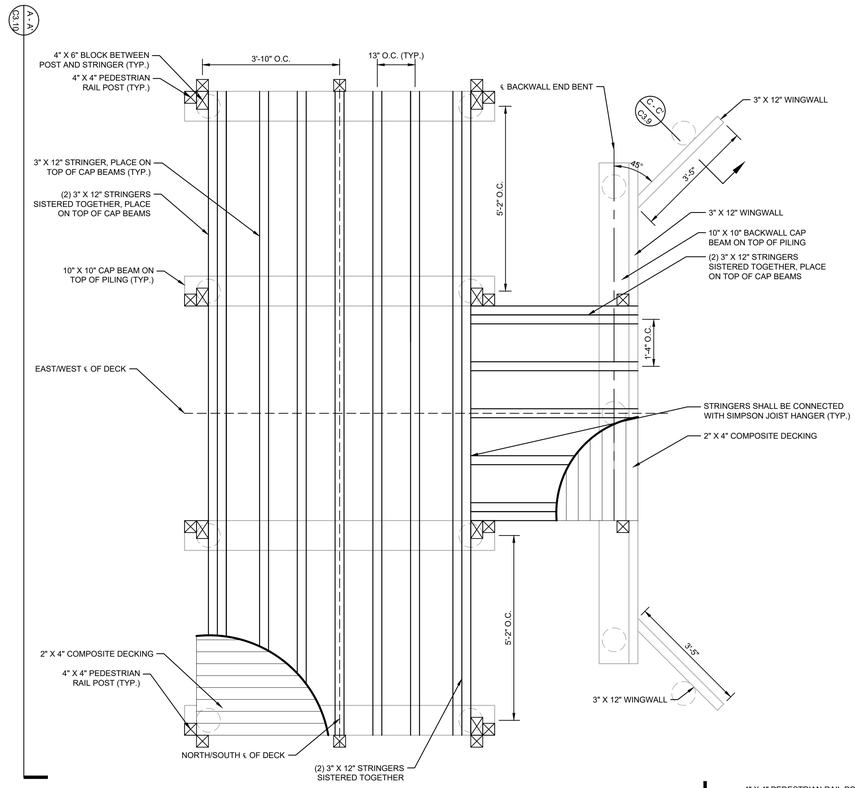
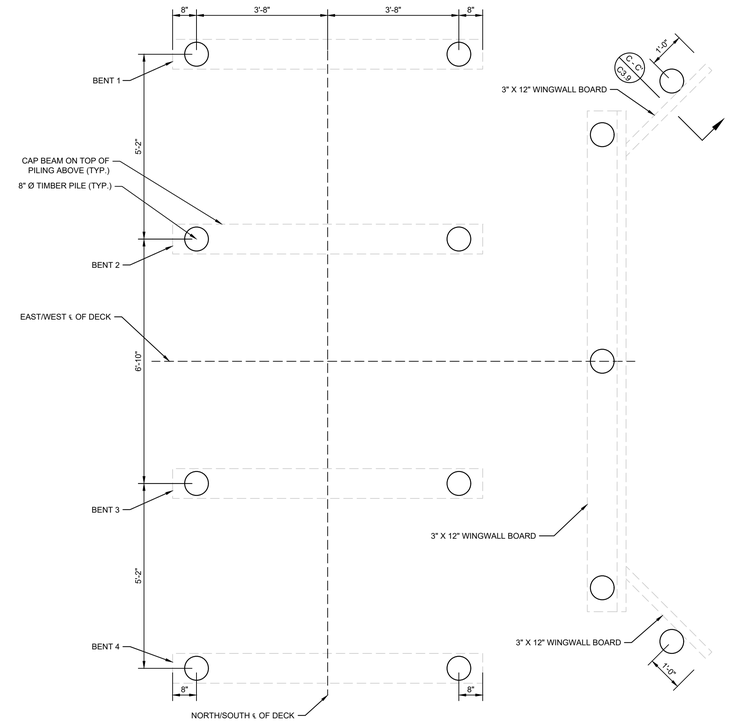
SITE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

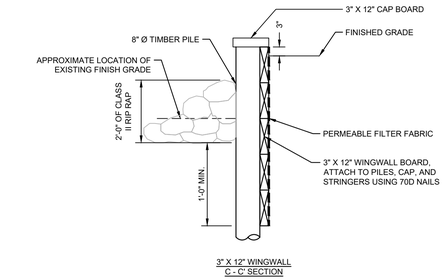
SHEET NUMBER
C3.8



OBSERVATION DECK - FRAMING PLAN



OBSERVATION DECK - PILING PLAN



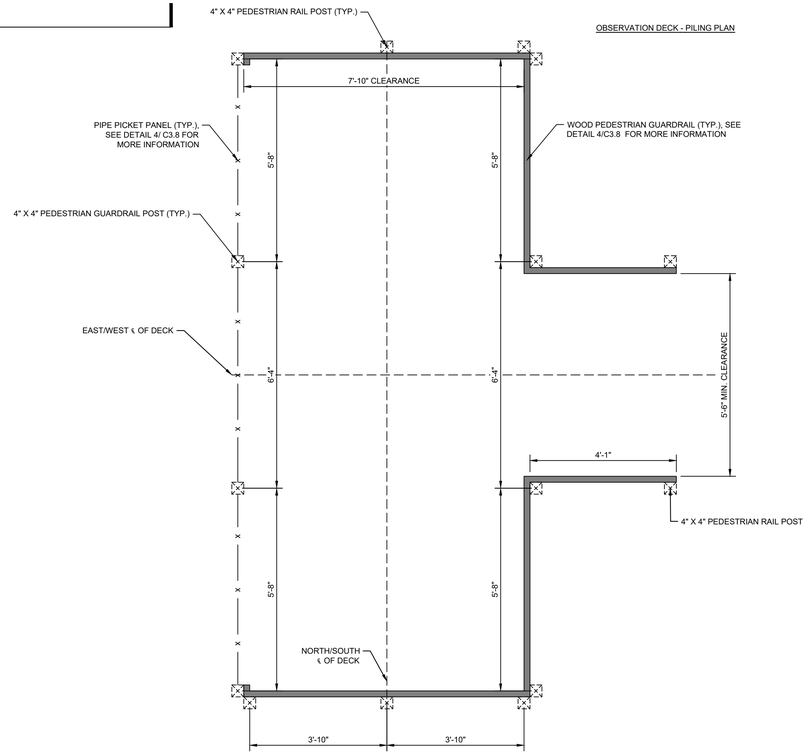
3" X 12" WINGWALL
C - C' SECTION

OBSERVATION DECK BENT SCHEDULE

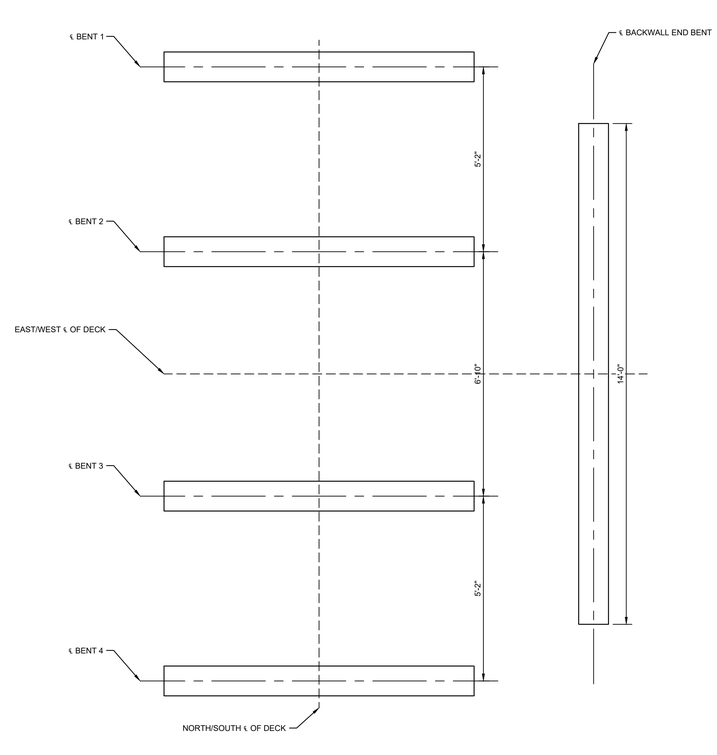
BENT NO.	BENT LENGTH	NO. OF PILES EA.	PILE LENGTH
1-4	8'-8"	2	CONTRACTOR TO PROVIDE GEOTECHNICAL RECOMMENDATIONS FOR TOTAL LENGTH OF ALL WOOD PILES. GEOTECHNICAL ENGINEER SHALL BE LICENSED IN THE STATE OF NORTH CAROLINA. CONTRACTOR'S PRICE SHALL BE ALL ENCOMPASSING TO FULLY COMPLETE GEOTECHNICAL TESTING, DETERMINE RECOMMENDED PILE LENGTH, AND CONSTRUCT THE OBSERVATION DECK WITH PILE LENGTH INCORPORATED
BACKWALL END	16'-0"	3	

OBSERVATION DECK GENERAL NOTES:

1. WATER ELEVATION MAY VARY DEPENDING ON WEATHER CONDITIONS AND SEASONAL FLUCTUATIONS. ADDITIONAL PAYMENT FOR DEWATERING WILL NOT BE ALLOWED. CONTRACTOR SHALL INCLUDE ALL COSTS AS PART OF INCIDENTAL ITEMS.
2. FRAMING, DECKING, NAILERS, AND PEDESTRIAN RAIL COMPONENTS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE (NO. 1) SURFACE DRY (S$4S) WITH A MOISTURE CONTENT OF 19% OR LESS, MEETING THE REQUIREMENTS OF SECTION 108Z OF THE STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE. COMPOSITE RAILING/DECKING SHALL BE MOISTURESHIELD VANTAGE MARINE GRADE SOLID EDGE, CAPE COD GRAY IN COLOR WITH 4-INCH JOINT TAPE AND STARBORN COLOR MATCHED SCREWS WITH PRO PLUGS, OR APPROVED EQUAL.
3. ALL TIMBER PILES SHALL BE SOUTHERN YELLOW PINE (NO. 2) CONFORMING TO ASTM D25. WHERE PILES ARE CUT OFF AT TOP OF PILE CAP, MINIMUM BUTT DIAMETER SHALL BE NO LESS THAN 8 INCHES.
4. TIMBER AND LUMBER SHALL BE TREATED WITH WATERBORNE PRESERVATIVES (CCA OR ACO) IN ACCORDANCE WITH AWPA STANDARD U1, COMMODITY SPECIFICATION A, TO THE REQUIREMENTS OF THE FOLLOWING USE CATEGORIES:
   A. PILES: UC4C
   B. BACKWALLS, WINGWALLS, CAP BEAMS AND STRINGERS: UC4B
   C. DECKING, PEDESTRIAN RAILING COMPONENTS, ALL OTHER LUMBER: UC3B
5. EACH DECKING MEMBER SHALL BE INSTALLED BARK SIDE UP TO PREVENT CUPPING. WHEN JOINTS ARE REQUIRED FOR DECKING MEMBERS, STAGGER THE JOINT ALONG BOARDWALK ALIGNMENT.
6. MAXIMUM SPACING BETWEEN DECKING MEMBERS SHALL BE 1/8".
7. ALL VERTICAL MEMBERS SHALL BE PLUMB.
8. ALL SAW CUTS, BOLT HOLES, AND OTHER HOLES SHALL BE TREATED WITH APPROPRIATE PRESERVATION SOLUTION PRIOR TO INSTALLING BOLTS.
9. UNLESS NOTED OTHERWISE, MECHANICAL WOOD CONNECTIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
10. ALL CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
11. ALL FASTENERS, CONNECTORS, AND BOLTS SHALL BE HOT-DIP GALVANIZED AND CONFORM TO ASTM F3125 GRADE A325, WITH NUTS CONFORMING TO ASTM A563 AND WASHERS CONFORMING TO ASTM F436, UNLESS OTHERWISE NOTED.
12. ALL BOLTED CONNECTIONS SHALL INCLUDE OVERSIDED OGEE WASHERS INSTALLED BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT.
13. ATTACH BLOCKING TO JOIST USING TWO (2) #12 X 5" HOT-DIP GALVANIZED WOOD SCREWS, CONFORMING TO ASTM A153, AT EACH SIDE OF BLOCKING. PREDRILL AS REQUIRED TO AVOID SPLITTING.
14. ATTACH FLOOR DECKING TO EACH JOIST USING TWO (2) #12 X 5" HOT-DIP GALVANIZED WOOD SCREWS, CONFORMING TO ASTM A153, AT EACH JOIST. PREDRILL AS REQUIRED TO AVOID SPLITTING.
15. ATTACH SIDE RAIL TO POST USING TWO (2), AND TOP RAIL TO POST USING FOUR (4), #8 X 3-1/2" HOT-DIP GALVANIZED WOOD SCREWS, CONFORMING TO ASTM A153, AT EACH POST. PREDRILL AS REQUIRED TO AVOID SPLITTING.
16. ALL LONGITUDINAL RAILING MEMBERS SHALL SPAN A MINIMUM OF TWO RAIL POST SPACINGS.
17. APPPROACH RAILINGS SHALL BE PROVIDED.
18. CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURES NECESSARY TO ENSURE THAT NO DEBRIS IS DROPPED INTO THE WATERWAY. ANY DEBRIS WHICH IS ALLOWED TO DROP ON THE BANKS SHALL NOT BE ALLOWED TO ENTER THE POND AND SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. COST OF REMOVAL AND DISPOSAL OF DEBRIS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
19. CONTRACTOR'S BID SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, DELIVERY, PILE DRIVE SETUP, PILE TESTING, DEWATERING, AND OTHER INCIDENTIALS AS NECESSSARY FOR CONSTRUCTION AND INSTALLATION OF THE OVERLOOK DECK.
20. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NORTH CAROLINA STATE BUILDING CODE (2018), THE ACI BUILDING CODE (318), THE AISC CODE, THE AWS CODE, OSHA, AND ALL APPLICABLE ASTM STANDARDS. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
21. CONSTRUCTION METHODS, PROCEDURES, AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY AND THE CONTRACTOR SHALL TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
22. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
23. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING AGAINST WIND, WATER, AND CONSTRUCTION LOADS THORUGHOUT THE WORK. THE OBSERVATION DECK AS INDICATED IS DESIGNED AS A COMPLETE ASSEMBLAGE. TEMPORARY ERECTION OR CONSTRUCTION LOADS AND/OR CONSTRUCTION SEQUENCE HAVE NOT BEEN INCLUDED IN THE DESIGN. THE CONTRACTOR SHALL STORE MATERIALS AND CONSTRUCT THE DECK IN A MANNER THAT WILL NOT OVERSTRESS THE DECK STRUCTURE.
24. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE FIELD CONDITIONS SHALL BE REPORTED TO THE PROJECT ENGINEER AND PROJECT LANDSCAPE ARCHITECT IMMEDIATELY
25. CONTRACTOR SHALL USE THE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT ANCHORAGE AND DETAILS.
26. THE USE OR REPRODUCTION OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS OR HER ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN. IN ADDITION, ALL REFERENCES TO KIMLEY-HORN AND ASSOCIATES, INC., INCLUDING ALL PROFESSIONAL SEALS, ARE TO BE REMOVED IF THESE CONTRACT DRAWINGS ARE TO BE USED AS SHOP DRAWINGS.
27. ALL GUARDRAILS SHALL BE ADA COMPLIANT.
28. GOVERNING CODE FOR DESIGN LOADS IS THE 2018 NORTH CAROLINA STATE BUILDING CODE (IBC 2018 WITH NORTH CAROLINA AMENDMENTS).
29. ALL CONNECTION HARDWARE AND FASTENERS SHALL BE ASTM-A449 AND HOT-DIP GALVANIZED.
30. ALL WOOD MAKING GROUND CONTACT SHALL BE SOUTHERN YELLOW PINE (NO. 2) PRESERVATIVE PRESSURE TREATED.
31. CONTRACTOR TO PROVIDE GEOTECHNICAL RECOMMENDATIONS FOR TOTAL LENGTH OF ALL WOOD PILES. GEOTECHNICAL ENGINEER SHALL BE LICENSED IN THE STATE OF NORTH CAROLINA. CONTRACTOR'S PRICE SHALL BE ALL ENCOMPASSING TO FULLY COMPLETE GEOTECHNICAL TESTING, DETERMINE RECOMMENDED PILE LENGTH, AND CONSTRUCT THE OBSERVATION DECK WITH PILE LENGTH INCORPORATED



OBSERVATION DECK - RAILING PLAN



OBSERVATION DECK - BENT PLAN

1 C3.9 OBSERVATION DECK

1/2" = 1'-0"

ELEVATION

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND 10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

SITE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C3.9

Plotted By: Brown, Seth Sheet Set: Yates Mill County Park Layout: C3.9 SITE DETAILS October 07, 2026 02:32:57pm K:\RAL_LDEV\012262021_WakeCoPks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\C3.9 SITE DETAILS.dwg
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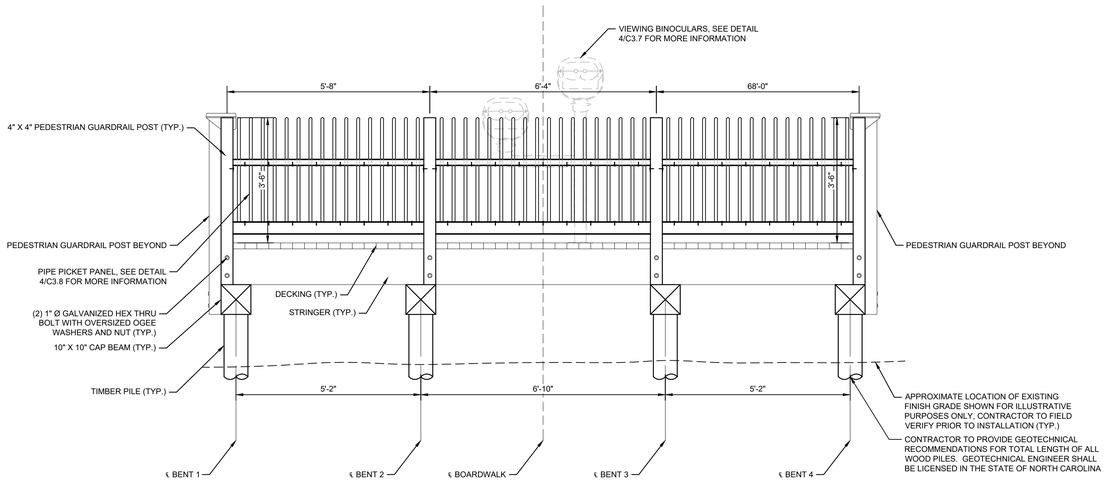
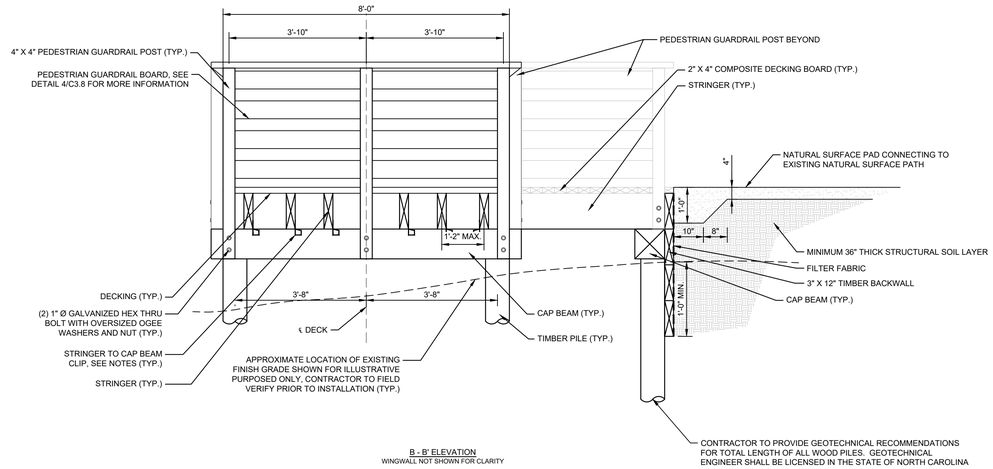
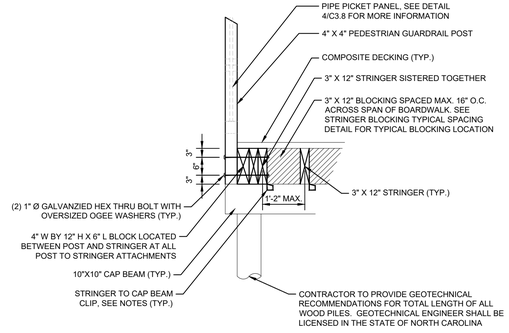


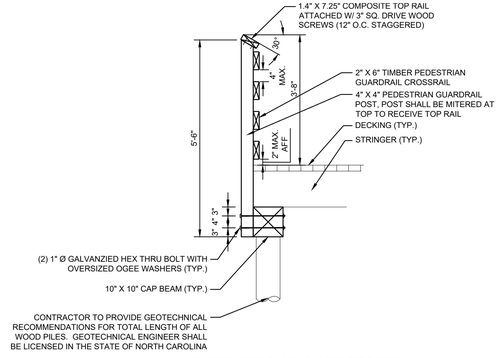
A - A' ELEVATION



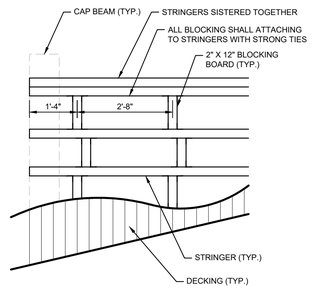
B - B' ELEVATION
WINGWALL NOT SHOWN FOR CLARITY



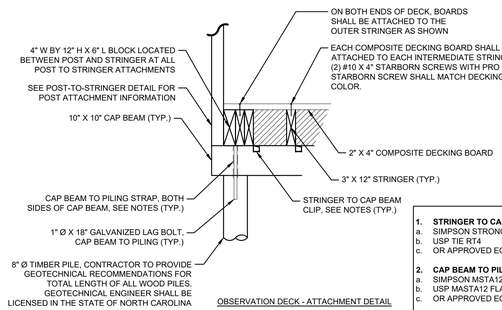
GUARDRAIL POST-TO-STRINGER CONNECTION DETAIL



GUARDRAIL POST-TO-CAP BEAM CONNECTION DETAIL



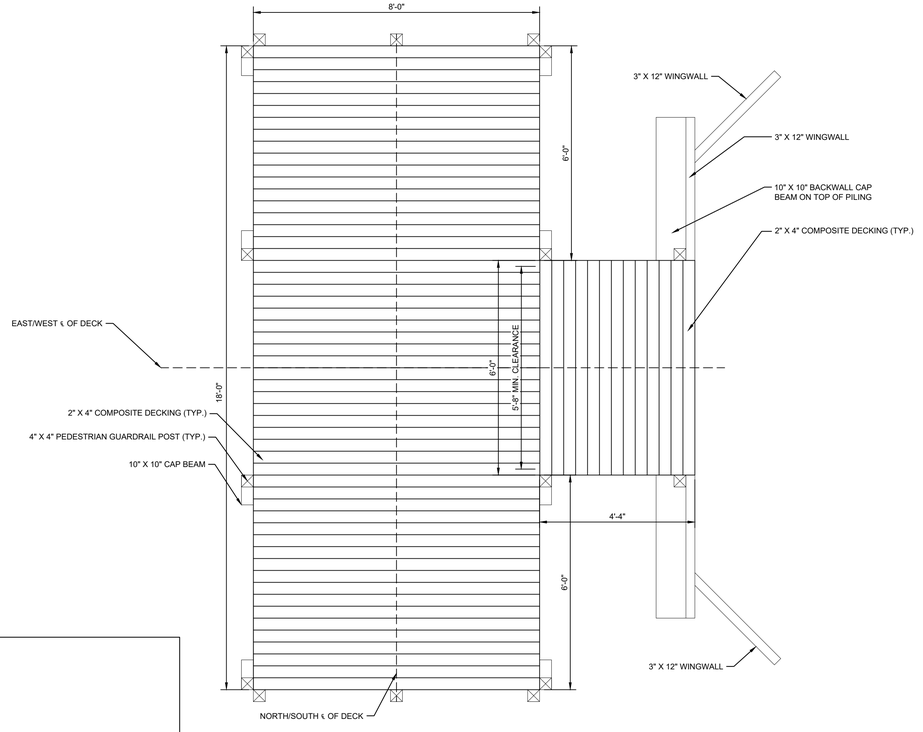
STRINGER BLOCKING TYPICAL SPACING DETAIL



OBSERVATION DECK - ATTACHMENT DETAIL

NOTES

1. **STRINGER TO CAP BEAM CLIP SHALL BE:**
   a. SIMPSON STRONG TIE LTS12
   b. USP TIE RT4
   c. OR APPROVED EQUAL
2. **CAP BEAM TO PILING STRAP SHALL BE:**
   a. SIMPSON MSTA12 FLAT STRAP
   b. USP MASTA12 FLAT STRAP
   c. OR APPROVED EQUAL
3. **TIMBER PILES SHALL HAVE MINIMUM TIP DIAMETER OF 8"**
4. **CONTRACTOR TO PROVIDE GEOTECHNICAL RECOMMENDATIONS FOR TOTAL LENGTH OF ALL WOOD PILES. GEOTECHNICAL ENGINEER SHALL BE LICENSED IN THE STATE OF NORTH CAROLINA. CONTRACTOR'S PRICE SHALL BE ALL ENCOMPASSING TO FULLY COMPLETE GEOTECHNICAL TESTING, DETERMINE RECOMMENDED PILE LENGTH, AND CONSTRUCT THE OBSERVATION DECK WITH PILE LENGTH INCORPORATED.**



OBSERVATION DECK - DECKING PLAN

1 OBSERVATION DECK
C3.10 1/2" = 1'-0"

ELEVATION

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT MELISSA KAY BRAND 1921
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

SITE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C3.10

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C3.10 SITE DETAILS October 07, 2026 09:55:04pm K:\RAL_LDEV\012262021 - Wake\CoPks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\C3.9 SITE DETAILS.dwg
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ELECTRICAL NOTES:
1. ELECTRICAL PLANS ARE SHOWN FOR REFERENCE ONLY. SEE SHEET MBE 2.0 FOR DETAILS.
2. SEE SHEET MBE 3.0 FOR SECURITY INFRASTRUCTURE ELECTRICAL SITE PLAN.
3. CONTRACTOR TO COORDINATE WITH DUKE ENERGY FOR EXISTING SITE LIGHTING CONDUIT REROUTING AND RELOCATED TRANSFORMER CONDUIT ROUTING. REPORT ANY CONFLICTS TO ENGINEER AND MEP.

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LIMITS OF SITE SURVEY; INFORMATION BEYOND THIS LINE IS NOT SURVEY INFORMATION AND IS FOR REFERENCE ONLY

EXISTING STREAM

45 DEGREE BEND

PROPOSED ELECTRIC LINE. REFER TO MEP PLANS FOR DETAILS.

PROPOSED 3" SDR 21 PVC WATERLINE

3" X 1" TAP AND VALVE

141' HOSE LAY

HH

PROPOSED 1" PVC WATER SERVICE FOR EQUIPMENT STORAGE BUILDING. SEE MEP PLANS FOR DETAILS.

45 DEGREE BEND

83' HOSE LAY

45 DEGREE BEND

136' HOSE LAY

RELOCATED TRANSFORMER

85' FIRE APPARATUS ACCESS DRIVE PATH

EXISTING WATERLINE AT WELL HOUSE

CONNECT TO EXISTING WATERLINE OUTSIDE EXISTING WELL HOUSE

CONTRACTOR TO INSTALL, TEST, AND AS-BUILT WATER SERVICE AND SUBMIT TO ENGINEER PRIOR TO PLACING NEW LINE INTO SERVICE

321.4 FFE

45 DEGREE BEND

45 DEGREE BEND

50' WELL SETBACK

GATE VALVE

25' WELL SETBACK

HH

PROPOSED ELECTRICAL HANDHOLD. REFER TO MEP PLANS FOR DETAILS.

45 DEGREE BEND

PROPOSED 3" SDR 21 PVC WATERLINE

PROPOSED ELECTRIC LINE. REFER TO MEP PLANS FOR DETAILS.

EXISTING 4" ELECTRICAL CONDUITS

FEMA ZONE AE FLOODWAY BOUNDARY

FEMA ZONE AE FLOODPLAIN BOUNDARY

45 DEGREE BEND

3" X 1" TEE

PROPOSED 1" PVC WATER CONNECTION TO YARD HAND PUMP

45 DEGREE BEND

PROPOSED YARD HAND PUMP

FLOOD ZONE AE (FLOODWAY)

FLOOD ZONE AE (FLOODPLAIN)

RETAINING WALL

HH

3" X 3" TEE

CONNECT TO EXISTING WATERLINE

CONTRACTOR TO INSTALL, TEST, AND AS-BUILT WATER SERVICE AND SUBMIT TO ENGINEER PRIOR TO PLACING NEW LINE INTO SERVICE

EXISTING 3" PVC WATERLINE

WOOD BRIDGE

SIGN

EXISTING 3" PVC WATERLINE. CONTRACTOR TO CONFIRM PIPE SIZE AND MATERIAL AND REPORT FINDINGS TO THE ENGINEER.

CONTRACTOR TO CONFIRM EXISTING 3" PVC WATER LINE DEPTH AND REPORT ANY CONFLICTS TO ENGINEER. LINE TO BE ADJUSTED IN PLACE TO PROVIDE 12" VERTICAL CLEARANCE FROM PROPOSED STORM STRUCTURE.

CONC SIDEWALK

LP

EXISTING LIGHT POLE (TYP.)

GV

EXISTING GAS LINE (TYP.)

EXISTING TELECOME LINE (TYP.)

M&C REBAR & CAP #1
NC GRID (NAD 83/2011)

N:717410.66'
E:2093097.91'
EL=327.45

UTILITY LEGEND

	PROPERTY LINE
W	WATER LINE
	FIRE HOSE LAY LENGTHS
SS	SANITARY SEWER LINE
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
P	POWER
T	TELECOMMUNICATION
TV	CABLE
	LIGHT POLE
M	WATER METER
	GATE VALVE
	POINT OF CONNECTION
	BACKFLOW PREVENTOR
	PIPE TEE/BENDS
	REDUCER
	EXISTING FIRE HYDRANT (FH)
	SANITARY SEWER CLEANOUT (SSCO)
SS	SANITARY SEWER MANHOLE (SSMH)
	SANITARY SEWER GREASE TRAP

STANDARD UTILITY NOTES:

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS.
2. UTILITY SEPARATION REQUIREMENTS:
   A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
   B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
   C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
   D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
   E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORMDRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W- 41 & S-49).
   F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
6. SEWER BYPASS PUMPING – A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
9. INSTALL WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
13. INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.
14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
18. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A – GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
21. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
22. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN $250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
23. PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".
24. ADJUST ALL UTILITY RIMS TO PROPOSED GRADES.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Know what's below. Call before you dig.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 049180 ENGINEER ANDREW S. ALTSCHUL

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
NORTH CAROLINA
WAKE COUNTY

UTILITY PLAN

SHEET NUMBER
C4.0

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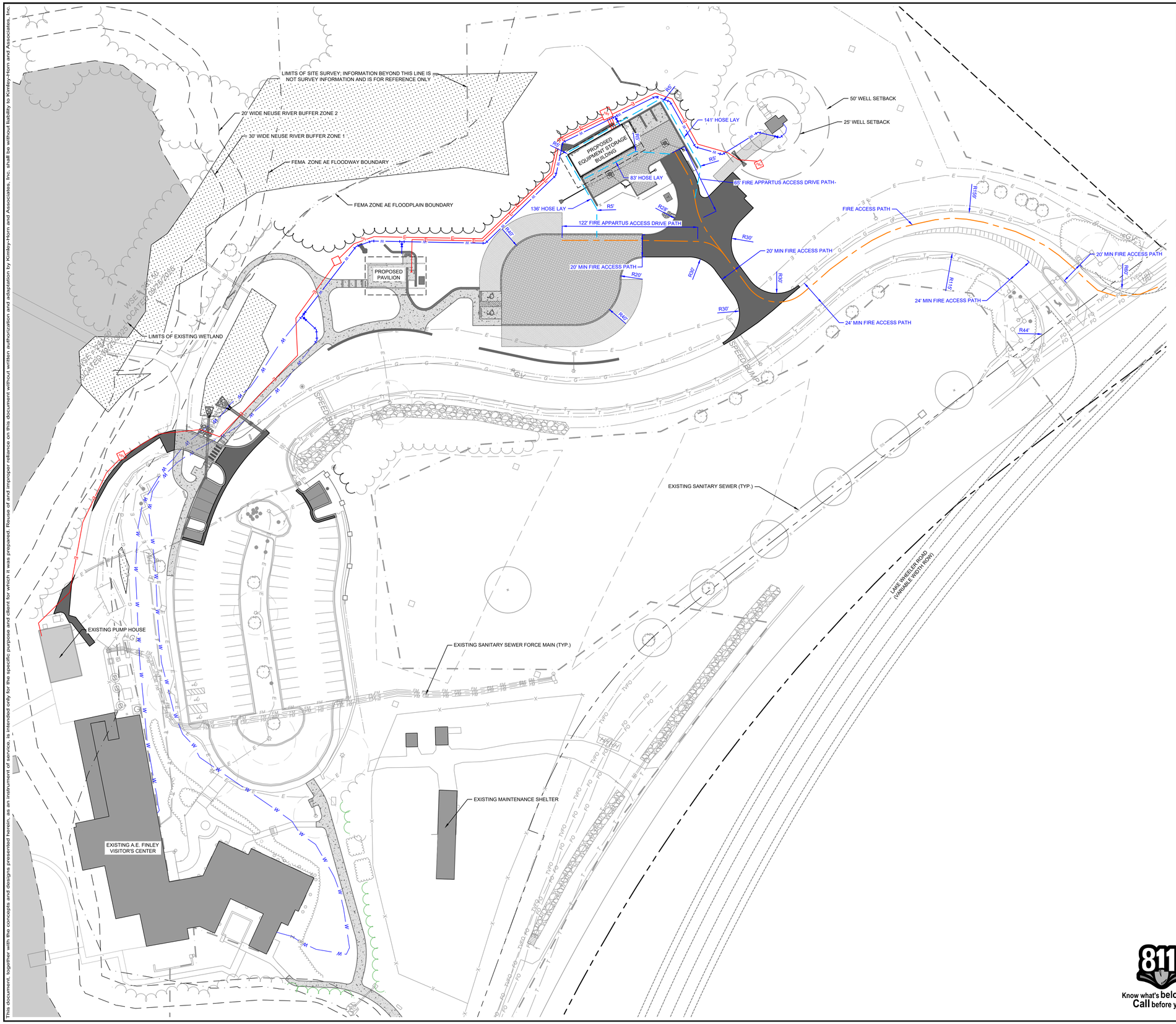

UTILITY LEGEND

- PROPERTY LINE
- W — WATER LINE
- FIRE HOSE LAY LENGTHS
- SS — SANITARY SEWER LINE
- E — ELECTRIC
- FO — FIBER OPTIC
- G — GAS
- P — POWER
- T — TELECOMMUNICATION
- TV — CABLE
- LIGHT POLE
- M — WATER METER
- GATE VALVE
- POINT OF CONNECTION
- BACKFLOW PREVENTOR
- PIPE TEE/BENDS
- REDUCER
- EXISTING FIRE HYDRANT (FH)
- SANITARY SEWER CLEANOUT (SSCO)
- SS — SANITARY SEWER MANHOLE (SSMH)
- SANITARY SEWER GREASE TRAP

GENERAL NOTES:

1. FIRE DEPARTMENT ACCESS LANE TO BE CAPABLE OF SUPPORTING THE LOAD OF THE APPARATUS WEIGHING AT LEAST 90,000 LBS AND SHALL BE SURFACES TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.
2. HISTORIC YATES MILL PARK IS CURRENTLY SERVED BY THE SWIFT CREEK FIRE DEPARTMENT. ANY FIRE EMERGENCIES ON SITE SHALL BE SERVED BY THE SCFD TANKER TRUCKS WITH DROP TANK.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

Know what's below. Call before you dig.

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NORTH CAROLINA PROFESSIONAL SEAL 053693 ENGINEER ANDREW S. ALLEMEIER

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

FIRE ACCESS AND HOSE LAY PLAN

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C4.1

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GRADING AND DRAINAGE LEGEND

	PROPERTY LINE
TCE	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN (≥ 12 INCH)
SD	STORM DRAIN (< 12 INCH)
RD	ROOF DRAIN
UD	UNDER DRAIN
	CURB AND GUTTER
	SPILL CURB AND GUTTER
LOD	LIMITS OF DISTURBANCE
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
826.00	SPOT ELEVATION
	CATCH BASIN (CB)
SD	MANHOLE (SDMH)
	CLEANOUT (SDCO)
	DROP INLET (DI)
	AREA DRAIN (AD)
	CONTROL STRUCTURE (CS)
	FLARED END SECTION (FES)
	CONCRETE HEADWALL (HW)
	RIP-RAP APRON
	FLOW ARROW
TW	TOP OF WALL (GRADE ELEV.)
BG	BOTTOM OF GRADE (GRADE ELEV.)
TP	TOP OF PAVEMENT (GRADE ELEV.)
TC	TOP OF CURB (GRADE ELEV.)
TC/TP	FLUSH CURB (GRADE ELEV.)
WT	WATER TIGHT JOINTS (WT)
HP	RELATIVE HIGH POINT (GRADE ELEV.)
LP	RELATIVE LOW POINT (GRADE ELEV.)

MID PINES RD.
PARTRIDGE BERRY DR.
OLDE MILL FOREST DR.
NORTH CAROLINA STATE UNIVERSITY AGROECOLOGY EDUCATION FARM
FEMA ZONE AE FLOODPLAIN BOUNDARY
FEMA ZONE AE FLOODWAY BOUNDARY
LIMITS OF DISTURBANCE = 3.00 AC
30' WIDE NEUSE RIVER BUFFER ZONE 1
20' WIDE NEUSE RIVER BUFFER ZONE 2
JURISDICTIONAL WETLAND
TREE PROTECTION FENCE
EXISTING STAND OF TRILLIUM VEGETATION TO REMAIN UNDISTURBED
EQUIPMENT STORAGE BUILDING
LEASE BOUNDARY (TYP.)
50' WELL SETBACK
EXISTING WATER WELL AND WELL HOUSE
25' WELL SETBACK
PLAN ENLARGEMENT - SEE SHEET C5.1
LIMITS OF DISTURBANCE (TYP.)
FEMA ZONE AE FLOODPLAIN BOUNDARY
PROPERTY LINE (TYP.)
20' WIDE NEUSE RIVER BUFFER ZONE 2
30' WIDE NEUSE RIVER BUFFER ZONE 1
PLAN ENLARGEMENT - SEE INSET 'A' ON SHEET C5.4
PLAN ENLARGEMENT - SEE SHEET C5.3
MILL POND PAVILION
LAKE WHEELER ROAD PROPOSED ROUTE SHOWN FOR REFERENCE ONLY (NCDOT B-5683)
EXISTING RIGHT-OF-WAY LINE
A.E. FINLEY CENTER
YATES MILL POND
EXISTING LOG CABIN
EXISTING HISTORIC YATES MILL
EXISTING YATES MILL DAM
EXISTING FIELD CLASSROOM
PLAN ENLARGEMENT - SEE INSET 'B' ON SHEET C5.4
LAKE WHEELER RD.
SUN VALLEY DR.
ETVALLEY CT.
OATSTONE PL.
WATERWHEEL DR.
RANDOLPH CT.
SHULINS CT.
FARMER LN.
COUNTRY COVE LN.
YATES MILL POND RD.
PENNY RD.

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

811 Know what's below. Call before you dig.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049393 JOHN S. ALLEMAN

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

OVERALL GRADING AND DRAINAGE PLAN

HISTORIC YATES MILL COUNTY PARK

PREPARED FOR

WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION

WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C5.0

GRADING AND DRAINAGE LEGEND

PROPERTY LINE	
TCE	TEMPORARY CONSTRUCTION EASEMENT
STORM DRAIN (≥ 12 INCH)	
SD	STORM DRAIN (< 12 INCH)
RD	ROOF DRAIN
UD	UNDER DRAIN
CURB AND GUTTER	
SPILL CURB AND GUTTER	
LOD	LIMITS OF DISTURBANCE
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
826.00	SPOT ELEVATION
	CATCH BASIN (CB)
SD	MANHOLE (SDMH)
	CLEANOUT (SDCO)
	DROP INLET (DI)
	AREA DRAIN (AD)
	CONTROL STRUCTURE (CS)
	FLARED END SECTION (FES)
	CONCRETE HEADWALL (HW)
	RIP-RAP APRON
	FLOW ARROW
TW	TOP OF WALL (GRADE ELEV.)
BG	BOTTOM OF GRADE (GRADE ELEV.)
TP	TOP OF PAVEMENT (GRADE ELEV.)
TC	TOP OF CURB (GRADE ELEV.)
TC/TP	FLUSH CURB (GRADE ELEV.)
WT	WATER TIGHT JOINTS (WT)
HP	RELATIVE HIGH POINT (GRADE ELEV.)
LP	RELATIVE LOW POINT (GRADE ELEV.)

LIMITS OF DISTURBANCE = 3.00 AC

FINE GRADING NOTES:

1. SIDEWALKS TO HAVE A MAXIMUM 2% CROSS SLOPE AND A MAXIMUM 5% LONGITUDINAL SLOPE.
2. PEDESTRIAN CROSSWALKS TO HAVE MAXIMUM 2% CROSS SLOPE AND MAXIMUM 5% LONGITUDINAL SLOPE WITHIN STRIPED AREA.
3. ADA PARKING AREAS AND ACCESSIBLE AREAS TO HAVE A MAXIMUM 2% SLOPE IN ALL DIRECTIONS.
4. SIDEWALK INTERSECTIONS AND STAIR/RAMP LANDINGS TO HAVE A MAXIMUM 2% SLOPE IN ALL DIRECTIONS.
5. THE PURPOSE OF THIS PLAN IS TO CONVEY DESIGN INTENT. CONTRACTOR TO VERIFY ALL DIMENSIONS AND SLOPES TO ENSURE POSITIVE DRAINAGE IN THE FIELD AND IS RESPONSIBLE FOR ALL COORDINATION WITH THE CITY INSPECTOR.
6. CONTRACTOR TO ENSURE A SMOOTH GRADE IS MAINTAINED ALONG ALL NEW CURB AND GUTTER AND SHALL ENSURE POSITIVE DRAINAGE ACROSS ALL PAVED AREAS.
7. NO FILL IS ALLOWED WITHIN THE FEMA FLOODWAY LIMITS UNLESS EXPLICITLY SHOWN IN DESIGN PLANS. CONTRACTOR TO REPORT BACK TO ENGINEER OF RECORD IF EXISTING SITE CONDITIONS MAY WARRANT THE USE OF FILL SOILS IN LIEU OF DESIGN ELEVATIONS.
8. ADJUST ALL UTILITY RIM ELEVATIONS TO PROPOSED GRADES.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

811 Know what's below. Call before you dig.

No.	BY	DATE	REVISIONS
	SDB	10/01/2026	ISSUE FOR BID PLANS

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 053163 ENGINEER ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

GRADING AND DRAINAGE PLAN ENLARGEMENT - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C5.1

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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EXISTING MAINTENANCE SHELTER
FFE = 319.60

EXISTING MAINTENANCE SHED FFE = 319.00

EXISTING MAINTENANCE SHED FFE = 315.60

LIMITS OF DISTURBANCE (TYP.)

PERMANENT SWALE #4. LINE WITH C125 OR APPROVED EQUAL

MATCHLINE - SEE SHEET C5.1

MATCHLINE - SEE SHEET C5.2

MATCHLINE - SEE SHEET C5.3

LIMITS OF DISTURBANCE (TYP.)

DOGHOUSE CATCH BASIN ON EXISTING 24" RCP STORM PIPE
DHCB-106
RIM: 302.00
INV IN: 297.81
INV OUT: 295.34

24" RCP @ 0.50%

18" CLASS IV RCP @ 1.00%

YI-105
RIM: 298.50
INV IN: 295.27
INV OUT: 295.17

24" RCP @ 0.50%

FES-104
INV IN: 295.04

FES-101
INV IN: 295.13
5' WIDE CONCRETE FLUME WITH RIPRAP DISSIPATION

LIMITS OF DISTURBANCE (TYP.)

18" CLASS IV RCP @ 1.00%

DCB-103
RIM: 299.68
INV OUT: 296.29

CB-102
RIM: 299.86
INV IN: 295.80
INV OUT: 295.70

EXISTING WETLAND (TYP.)

EXISTING RETAINING WALL TO REMAIN CONTRACTOR TO PROTECT IN PLACE

LIMITS OF SITE SURVEY: INFORMATION BEYOND THIS LINE IS NOT SURVEYED INFORMATION AND IS FOR REFERENCE ONLY

JURISDICTIONAL WETLAND (TYP.)

20' WIDE NEUSE RIVER BUFFER ZONE 2

30' WIDE NEUSE RIVER BUFFER ZONE 1

30' WIDE NEUSE RIVER BUFFER ZONE 1

FEMA ZONE AE FLOODWAY BOUNDARY

20' WIDE NEUSE RIVER BUFFER ZONE 2

EXISTING A.E. FINLEY VISITOR'S CENTER
FFE = 301.00

FEMA ZONE AE FLOODWAY BOUNDARY

20' WIDE NEUSE RIVER BUFFER ZONE 2

30' WIDE NEUSE RIVER BUFFER ZONE 1

EXISTING PUMP HOUSE

YATES MILL POND

LIMITS OF DISTURBANCE = 3.00 AC

GRADING AND DRAINAGE LEGEND

	PROPERTY LINE
TCE	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN (≥ 12 INCH)
SD	STORM DRAIN (< 12 INCH)
RD	ROOF DRAIN
UD	UNDER DRAIN
	CURB AND GUTTER
	SPILL CURB AND GUTTER
LOD	LIMITS OF DISTURBANCE
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
826.00	SPOT ELEVATION
	CATCH BASIN (CB)
SD	MANHOLE (SDMH)
	CLEANOUT (SDCO)
	DROP INLET (DI)
	AREA DRAIN (AD)
	CONTROL STRUCTURE (CS)
	FLARED END SECTION (FES)
	CONCRETE HEADWALL (HW)
	RIP-RAP APRON
	FLOW ARROW
TW	TOP OF WALL (GRADE ELEV.)
BG	BOTTOM OF GRADE (GRADE ELEV.)
TP	TOP OF PAVEMENT (GRADE ELEV.)
TC	TOP OF CURB (GRADE ELEV.)
TC/TP	FLUSH CURB (GRADE ELEV.)
WT	WATER TIGHT JOINTS (WT)
HP	RELATIVE HIGH POINT (GRADE ELEV.)
LP	RELATIVE LOW POINT (GRADE ELEV.)

FINE GRADING NOTES:

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GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

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SURVEY NOTE:
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
PHONE: 984-275-4874 FAX: 919-677-2050
#F-0102 WWW.KIMLEY-HORN.COM

NORTH CAROLINA PROFESSIONAL SEAL 049193 ENGINEER JOHN S. ALTAFFER

10/01/2026

KHA PROJECT 012262021
DATE 10/01/2026
SCALE AS SHOWN
DESIGNED BY ASA
DRAWN BY MGL
CHECKED BY JDK

GRADING AND DRAINAGE PLAN ENLARGEMENT - MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C5.2

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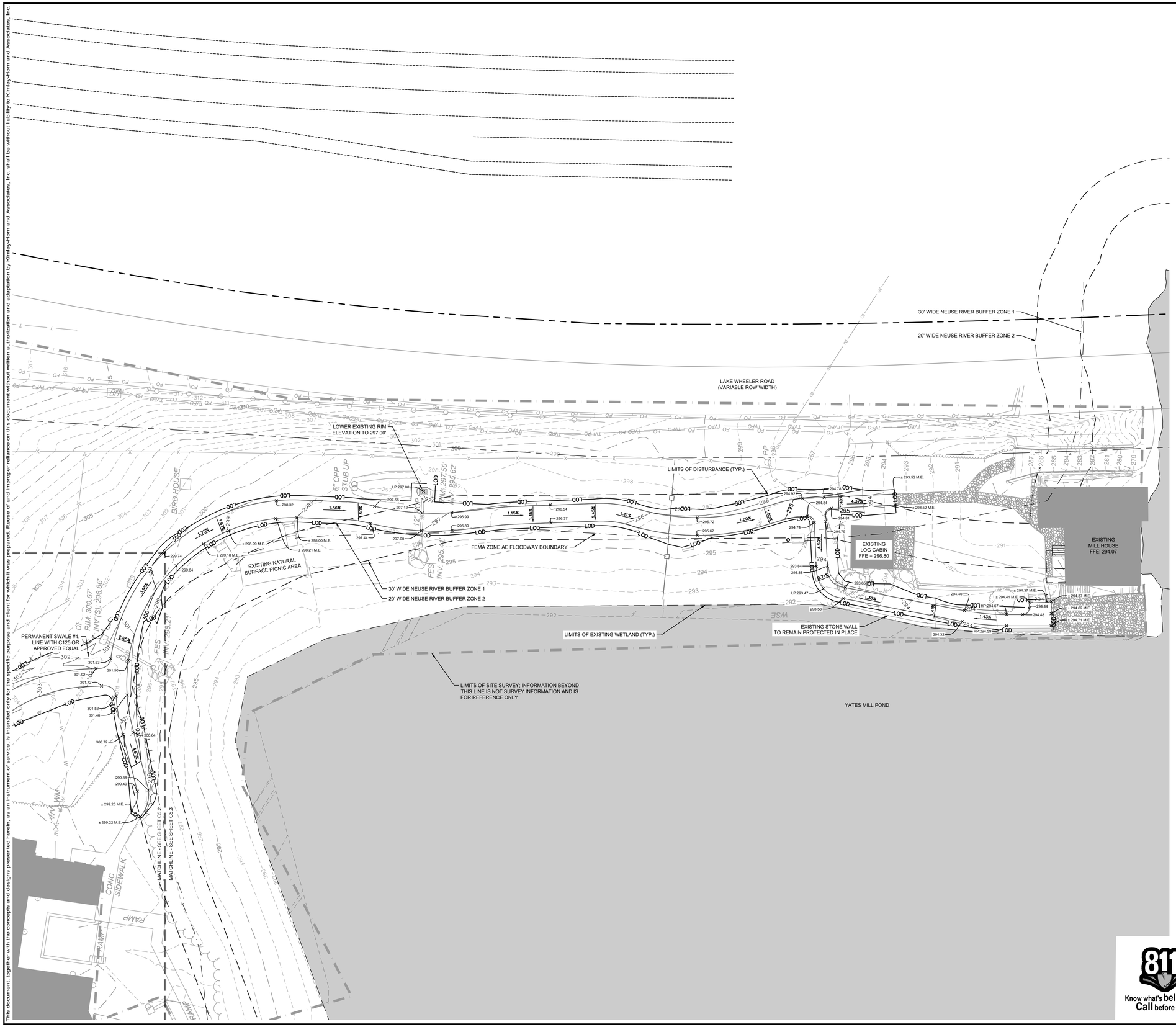

GRADING AND DRAINAGE LEGEND

	PROPERTY LINE
TCE	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN (≥ 12 INCH)
SD	STORM DRAIN (< 12 INCH)
RD	ROOF DRAIN
UD	UNDER DRAIN
	CURB AND GUTTER
	SPILL CURB AND GUTTER
LOD	LIMITS OF DISTURBANCE
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
826.00	SPOT ELEVATION
	CATCH BASIN (CB)
SD	MANHOLE (SDMH)
	CLEANOUT (SDCO)
	DROP INLET (DI)
	AREA DRAIN (AD)
	CONTROL STRUCTURE (CS)
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GRAPHIC SCALE IN FEET
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053183 ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

GRADING AND DRAINAGE PLAN ENLARGEMENT - THE MILL

HISTORIC YATES MILL COUNTY PARK

PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C5.3

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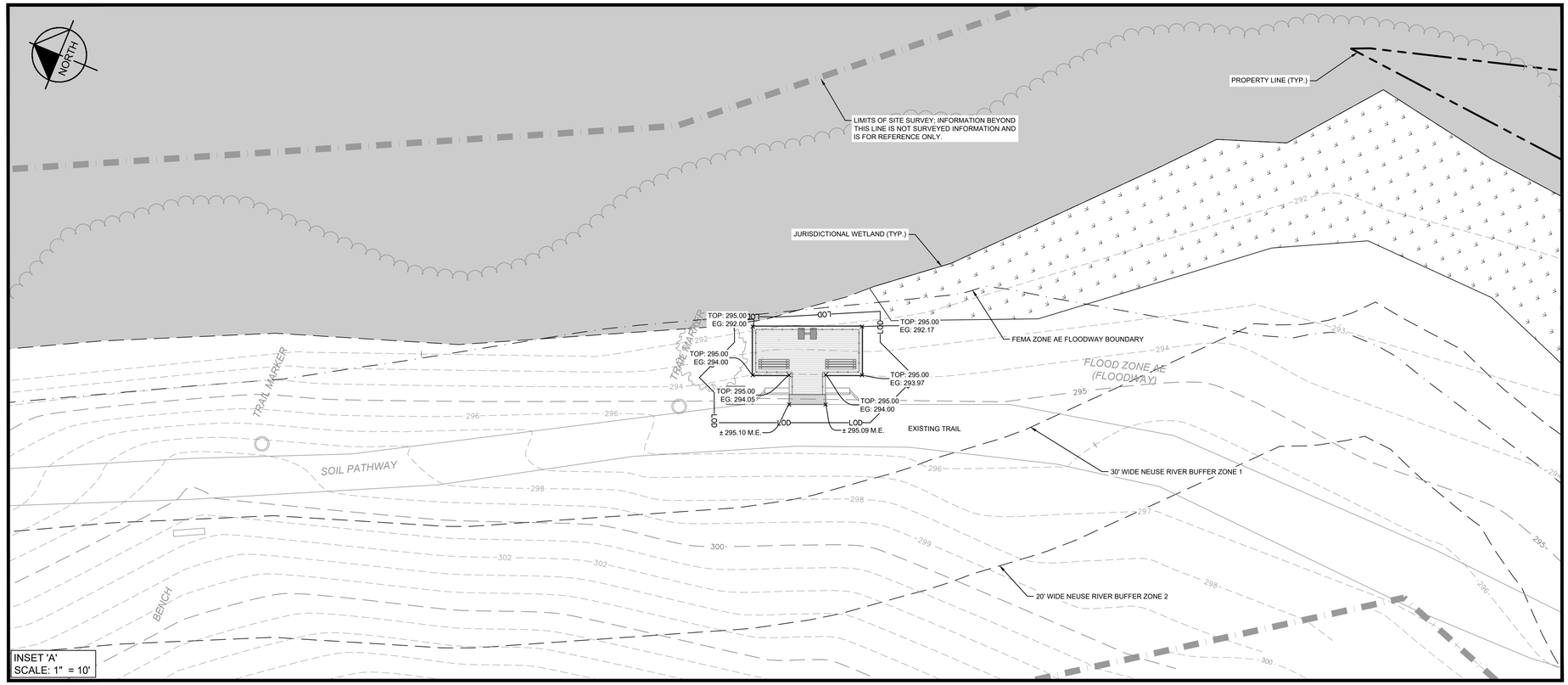

GRADING AND DRAINAGE LEGEND

	PROPERTY LINE
TCE	TEMPORARY CONSTRUCTION EASEMENT
	STORM DRAIN (≥ 12 INCH)
SD	STORM DRAIN (< 12 INCH)
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	SPILL CURB AND GUTTER
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	AREA DRAIN (AD)
	CONTROL STRUCTURE (CS)
	FLARED END SECTION (FES)
	CONCRETE HEADWALL (HW)
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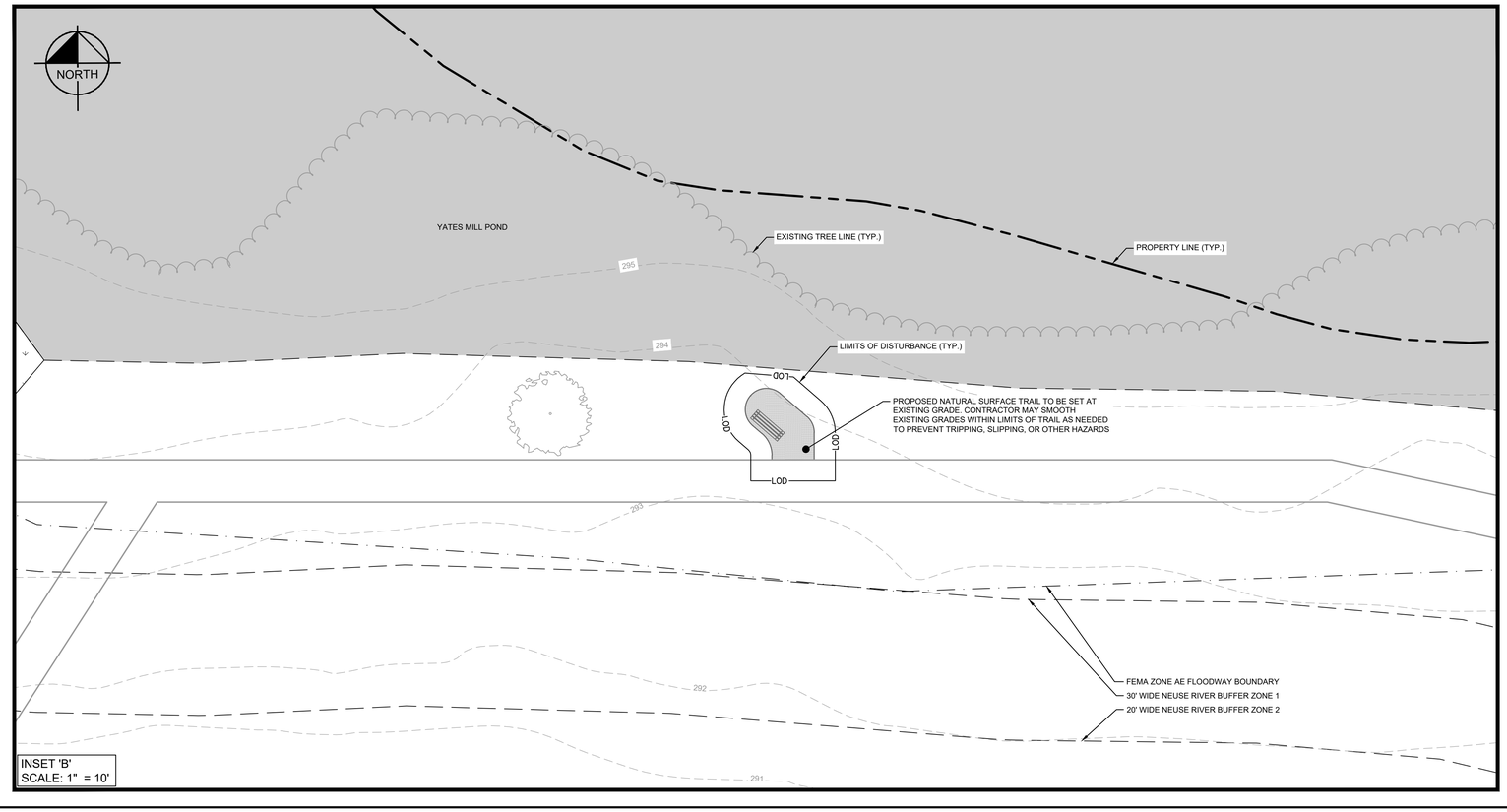

NATURAL SURFACE TRAIL GRADING NOTES:

1. NATURAL SURFACE TRAILS PROPOSED LOCATIONS TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD TO AVOID MATURE HARDWOOD TREES TO EXTENT FEASIBLE.
2. ANY ADJUSTMENT TO THE PROPOSED TRAIL ALIGNMENTS AS SHOWN IN THE PLANS SHALL BE COMMUNICATED TO AND COORDINATED WITH THE ENGINEER OF RECORD.
3. NO GRADING OR DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS OF DISTURBANCE. ANY ADJUSTMENTS TO THE PROPOSED LIMITS OF DISTURBANCE AS SHOWN IN THE PLANS SHALL BE COMMUNICATED TO AND COORDINATED WITH THE ENGINEER OF RECORD.
4. PROPOSED BOARDWALK ELEVATION MUST BE SET A MINIMUM OF 3 FT ABOVE THE EXISTING WETLAND WATER SURFACE ELEVATIONS. ANY CONFLICTS OR ADJUSTMENTS LOCATED IN THE FIELD SHALL BE REPORTED TO THE ENGINEER OF RECORD.
5. THE PROPOSED OVERLOOKS ARE OUTSIDE OF THE CITY OF RALEIGH AUTHORITY AND THUS SHALL CONFORM TO ALL APPLICABLE WAKE COUNTY CODES AND DESIGN STANDARDS.

GRAPHIC SCALE IN FEET
0 5 10 20

Know what's **below.**
Call before you dig.

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NORTH CAROLINA PROFESSIONAL SEAL 049102 ENGINEER JOHN S. ALTAMURO

10/01/2026

KHA PROJECT 012262021		DESIGNED BY	ASA
DATE 10/01/2026		DRAWN BY	MGL
SCALE	AS SHOWN	CHECKED BY	JDK

GRADING AND DRAINAGE PLAN ENLARGEMENT - MILL POND OVERLOOK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C5.4

SELF MONITORING AND INSPECTION NOTIFICATION

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS BECAME EFFECTIVE OCTOBER 1, 2010. TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, A COMBINED FORM IS NOW AVAILABLE. THE NEW FORM WAS DEVELOPED TO SATISFY THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NCG 010000. BEGINNING AUGUST 1, 2013, THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES IS RESPONSIBLE FOR ADMINISTERING BOTH THE SPCA AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NCG 010000. THE COMBINED FORM SHOULD MAKE IT EASIER TO COMPLY WITH SELF-INSPECTION REQUIREMENTS. THE COMBINED SELF-MONITORING FORM IS AVAILABLE AS A PDF AND WORD DOCUMENT FROM THE LAND QUALITY WEB SITE, HTTP://PORTAL.NCDENR.ORG/WEB/LR/EROSION IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDEQ REGIONAL OFFICE.

EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF/TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- → TD(CW) — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- **805** — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MID PINES RD.

NORTH CAROLINA STATE UNIVERSITY AGROECOLOGY EDUCATION FARM

FEMA ZONE AE FLOODPLAIN BOUNDARY

FEMA ZONE AE FLOODWAY BOUNDARY

PARTRIDGE BERRY DR

OLDE MILL FOREST DR.

30' WIDE NEUSE RIVER BUFFER ZONE 1

20' WIDE NEUSE RIVER BUFFER ZONE 2

JURISDICTIONAL WETLAND

TREE PROTECTION FENCE

EXISTING STAND OF TRILLIUM VEGETATION TO REMAIN UNDISTURBED

LEASE BOUNDARY (TYP.)

100' WELL SETBACK

EXISTING WATER WELL AND WELL HOUSE

PLAN ENLARGEMENT - SEE SHEET C6.1

LIMITS OF DISTURBANCE (TYP.)

FEMA ZONE AE FLOODPLAIN BOUNDARY

PROPERTY LINE (TYP.)

20' WIDE NEUSE RIVER BUFFER ZONE 2

30' WIDE NEUSE RIVER BUFFER ZONE 1

PLAN ENLARGEMENT - SEE INSET 'A' ON SHEET C6.4

PLAN ENLARGEMENT - SEE SHEET C6.1

LAKE WHEELER ROAD PROPOSED ROUTE SHOWN FOR REFERENCE ONLY (NCDOT B-5683)

EXISTING RIGHT-OF-WAY LINE

A.E. FINLEY CENTER

YATES MILL POND

PLAN ENLARGEMENT - SEE SHEET C6.3

EXISTING LOG CABIN

EXISTING HISTORIC YATES MILL

EXISTING YATES MILL DAM

EXISTING FIELD CLASSROOM

PLAN ENLARGEMENT - SEE INSET 'B' ON SHEET C6.4

LAKE WHEELER RD.

SUN VALLEY DR.

E VALLEY CT.

OATSTONE PL.

WATERWHEEL DR.

RANDOLPH CT.

SHULINS CT.

FARMER LN.

COUNTRY COVE LN.

YATES MILL POND RD.

PENNY RD.

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

811 Know what's below. Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2221.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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NORTH CAROLINA PROFESSIONAL SEAL 053861 ENGINEER ADAM S. ALTMAN

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

OVERALL EROSION CONTROL PLAN - PHASE 1

HISTORIC YATES MILL COUNTY PARK

PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION

WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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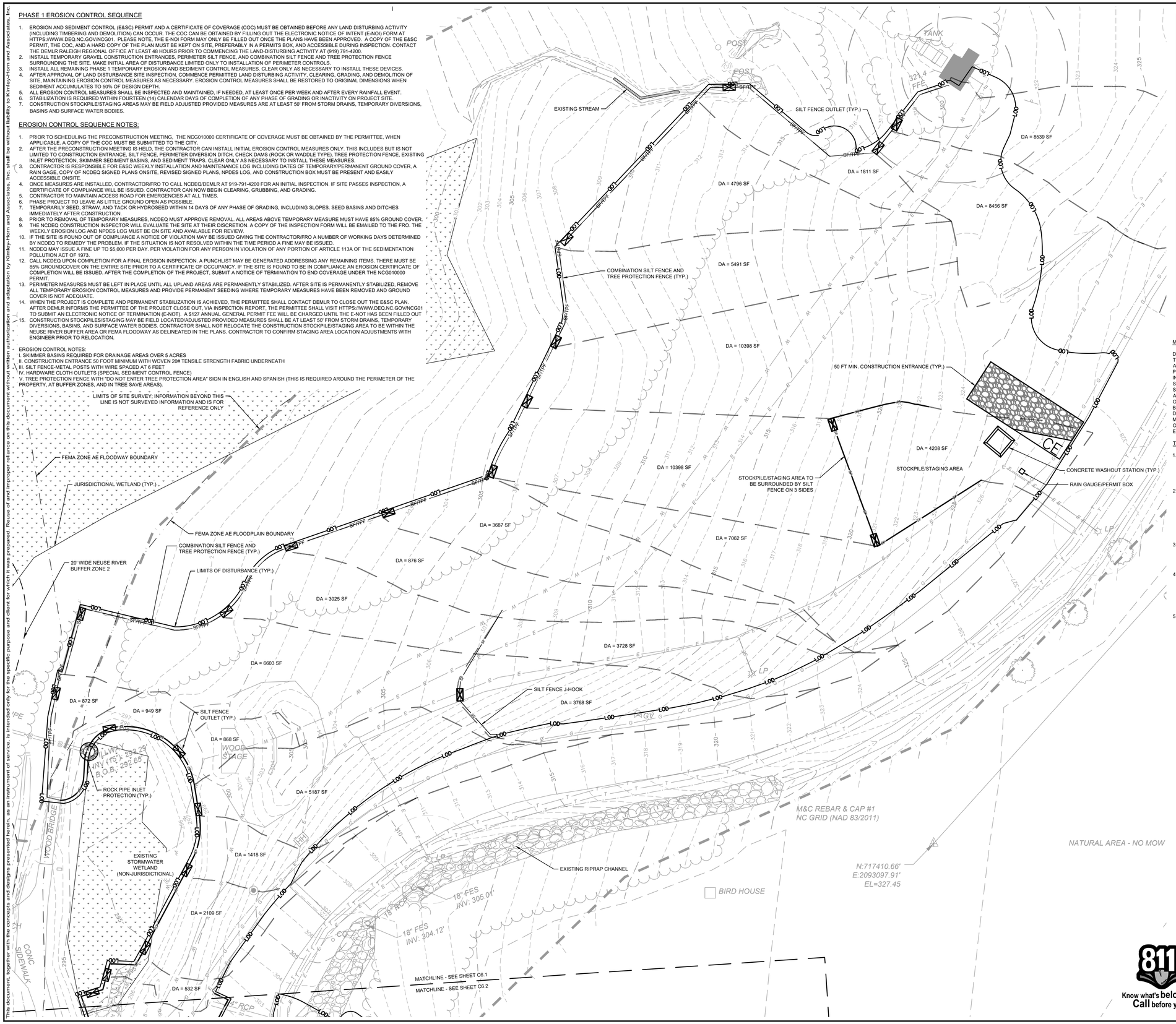
PHASE 1 EROSION CONTROL SEQUENCE

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITY (INCLUDING TIMBERING AND DEMOLITION) CAN OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT HTTPS://WWW.DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITY AT (919) 791-4200.
2. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCE, AND COMBINATION SILT FENCE AND TREE PROTECTION FENCE SURROUNDING THE SITE. MAKE INITIAL AREA OF DISTURBANCE LIMITED ONLY TO INSTALLATION OF PERIMETER CONTROLS.
3. INSTALL ALL REMAINING PHASE 1 TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. AFTER APPROVAL OF LAND DISTURBANCE SITE INSPECTION, COMMENCE PERMITTED LAND DISTURBING ACTIVITY, CLEARING, GRADING, AND DEMOLITION OF SITE, MAINTAINING EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.
6. STABILIZATION IS REQUIRED WITHIN FOURTEEN (14) CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
7. CONSTRUCTION STOCKPILE/STAGING AREAS MAY BE FIELD ADJUSTED PROVIDED MEASURES ARE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS AND SURFACE WATER BODIES.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCG010000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
2. AFTER THE PRECONSTRUCTION MEETING IS HELD, THE CONTRACTOR CAN INSTALL INITIAL EROSION CONTROL MEASURES ONLY. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIVERSION DITCH, CHECK DAMS (ROCK OR WADDLE TYPE), TREE PROTECTION FENCE, EXISTING INLET PROTECTION, SKIMMER SEDIMENT BASINS, AND SEDIMENT TRAPS. CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
4. ONCE MEASURES ARE INSTALLED, CONTRACTOR/FRO TO CALL NCDEQ/DEMLR AT 919-791-4200 FOR AN INITIAL INSPECTION. IF SITE PASSES INSPECTION, A CERTIFICATE OF COMPLIANCE WILL BE ISSUED. CONTRACTOR CAN NOW BEGIN CLEARING, GRUBBING, AND GRADING.
5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, V/A INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT
15. CONSTRUCTION STOCKPILES/STAGING MAY BE FIELD LOCATED/ADJUSTED PROVIDED MEASURES SHALL BE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS, AND SURFACE WATER BODIES. CONTRACTOR SHALL NOT RELOCATE THE CONSTRUCTION STOCKPILE/STAGING AREA TO BE WITHIN THE NEUSE RIVER BUFFER AREA OR FEMA FLOODWAY AS DELINEATED IN THE PLANS. CONTRACTOR TO CONFIRM STAGING AREA LOCATION ADJUSTMENTS WITH ENGINEER PRIOR TO RELOCATION.

EROSION CONTROL NOTES:
I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 20# TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 6 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).



ERASION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF/TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN; EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC. PHONE: 919-873-2211.

SURVEY NOTE:
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811 Know what's below. Call before you dig.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053181 JOHN D. KNOWLES
10/01/2026

KHA PROJECT	012262021		
DATE	10/01/2026		
SCALE	AS SHOWN		
DESIGNED BY	ASA		
DRAWN BY	MGL		
CHECKED BY	JDK		

EROSION CONTROL PLAN - PHASE 1 - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.1

PHASE 1 EROSION CONTROL SEQUENCE

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITY (INCLUDING TIMBERING AND DEMOLITION) CAN OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT HTTPS://WWW.DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITY AT (919) 791-4200.
2. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCE, AND COMBINATION SILT FENCE AND TREE PROTECTION FENCE SURROUNDING THE SITE. MAKE INITIAL AREA OF DISTURBANCE LIMITED ONLY TO INSTALLATION OF PERIMETER CONTROLS.
3. INSTALL ALL REMAINING PHASE 1 TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. AFTER APPROVAL OF LAND DISTURBANCE SITE INSPECTION, COMMENCE PERMITTED LAND DISTURBING ACTIVITY, CLEARING, GRADING, AND DEMOLITION OF SITE, MAINTAINING EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.
6. STABILIZATION IS REQUIRED WITHIN FOURTEEN (14) CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
7. CONSTRUCTION STOCKPILE/STAGING AREAS MAY BE FIELD ADJUSTED PROVIDED MEASURES ARE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS AND SURFACE WATER BODIES.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCG010000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
2. AFTER THE PRECONSTRUCTION MEETING IS HELD, THE CONTRACTOR CAN INSTALL INITIAL EROSION CONTROL MEASURES ONLY. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIVERSION DITCH, CHECK DAMS (ROCK OR WADDLE TYPE), TREE PROTECTION FENCE, EXISTING INLET PROTECTION, SKIMMER SEDIMENT BASINS, AND SEDIMENT TRAPS. CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
4. ONCE MEASURES ARE INSTALLED, CONTRACTOR/FRO TO CALL NCDEQ/DEMLR AT 919-791-4200 FOR AN INITIAL INSPECTION. IF SITE PASSES INSPECTION, A CERTIFICATE OF COMPLIANCE WILL BE ISSUED. CONTRACTOR CAN NOW BEGIN CLEARING, GRUBBING, AND GRADING.
5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, V/A INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT
15. CONSTRUCTION STOCKPILES/STAGING MAY BE FIELD LOCATED/ADJUSTED PROVIDED MEASURES SHALL BE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS, AND SURFACE WATER BODIES. CONTRACTOR SHALL NOT RELOCATE THE CONSTRUCTION STOCKPILE/STAGING AREA TO BE WITHIN THE NEUSE RIVER BUFFER AREA OR FEMA FLOODWAY AS DELINEATED IN THE PLANS. CONTRACTOR TO CONFIRM STAGING AREA LOCATION ADJUSTMENTS WITH ENGINEER PRIOR TO RELOCATION.

EROSION CONTROL NOTES:
I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 2## TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 6 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).

EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF/TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) → — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN; EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

Know what's below. Call before you dig.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 049161 ENGINEER ADAM S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL PLAN - PHASE 1 - THE MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.2

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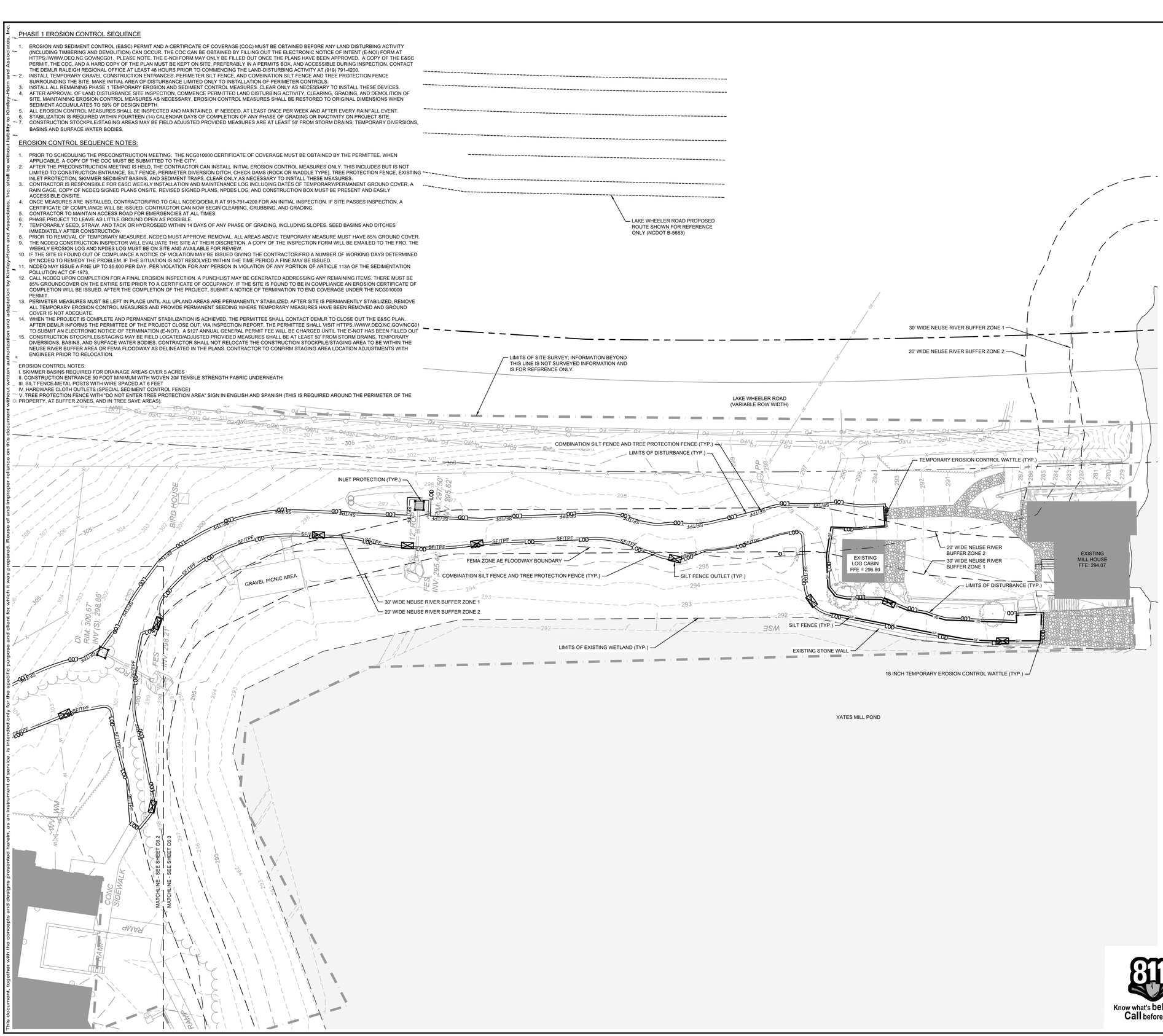
PHASE 1 EROSION CONTROL SEQUENCE

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITY (INCLUDING TIMBERING AND DEMOLITION) CAN OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT HTTPS://WWW.DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITY AT (919) 791-4200.
2. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCE, AND COMBINATION SILT FENCE AND TREE PROTECTION FENCE SURROUNDING THE SITE. MAKE INITIAL AREA OF DISTURBANCE LIMITED ONLY TO INSTALLATION OF PERIMETER CONTROLS.
3. INSTALL ALL REMAINING PHASE 1 TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. AFTER APPROVAL OF LAND DISTURBANCE SITE INSPECTION, COMMENCE PERMITTED LAND DISTURBING ACTIVITY, CLEARING, GRADING, AND DEMOLITION OF SITE, MAINTAINING EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.
6. STABILIZATION IS REQUIRED WITHIN FOURTEEN (14) CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
7. CONSTRUCTION STOCKPILE/STAGING AREAS MAY BE FIELD ADJUSTED PROVIDED MEASURES ARE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS AND SURFACE WATER BODIES.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCG010000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
2. AFTER THE PRECONSTRUCTION MEETING IS HELD, THE CONTRACTOR CAN INSTALL INITIAL EROSION CONTROL MEASURES ONLY. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIVERSION DITCH, CHECK DAMS (ROCK OR WADDLE TYPE), TREE PROTECTION FENCE, EXISTING INLET PROTECTION, SKIMMER SEDIMENT BASINS, AND SEDIMENT TRAPS. CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
4. ONCE MEASURES ARE INSTALLED, CONTRACTOR/FRO TO CALL NCDEQ/DEMLR AT 919-791-4200 FOR AN INITIAL INSPECTION. IF SITE PASSES INSPECTION, A CERTIFICATE OF COMPLIANCE WILL BE ISSUED. CONTRACTOR CAN NOW BEGIN CLEARING, GRUBBING, AND GRADING.
5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT
15. CONSTRUCTION STOCKPILES/STAGING MAY BE FIELD LOCATED/ADJUSTED PROVIDED MEASURES SHALL BE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS, AND SURFACE WATER BODIES. CONTRACTOR SHALL NOT RELOCATE THE CONSTRUCTION STOCKPILE/STAGING AREA TO BE WITHIN THE NEUSE RIVER BUFFER AREA OR FEMA FLOODWAY AS DELINEATED IN THE PLANS. CONTRACTOR TO CONFIRM STAGING AREA LOCATION ADJUSTMENTS WITH ENGINEER PRIOR TO RELOCATION.

EROSION CONTROL NOTES:
I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 20# TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 6 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).



EROSION CONTROL LEGEND

	PROPERTY LINE
LOD	LIMITS OF DISTURBANCE
SF	SILT FENCE
TPF	TREE PROTECTION FENCE
SF/TPF	COMBINATION TREE PROTECTION/ SILT FENCE
TD → TD	TEMPORARY DIVERSION DITCH
TD(CW)	CLEAN WATER DIVERSION DITCH
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
	DRAINAGE AREA BOUNDARY
CE	CONSTRUCTION ENTRANCE
	SILT FENCE OUTLET
	CONCRETE WASHOUT STATION
	ROCK CHECK DAM
	INLET PROTECTION
	ROCK PIPE INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	RIP-RAP OUTLET PROTECTION
	DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
	TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN; EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

811 Know what's below. Call before you dig.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049183 ANDREW S. ALTSCHUL
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL PLAN - PHASE 1 - THE MILL

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY, NORTH CAROLINA

SHEET NUMBER
C6.3

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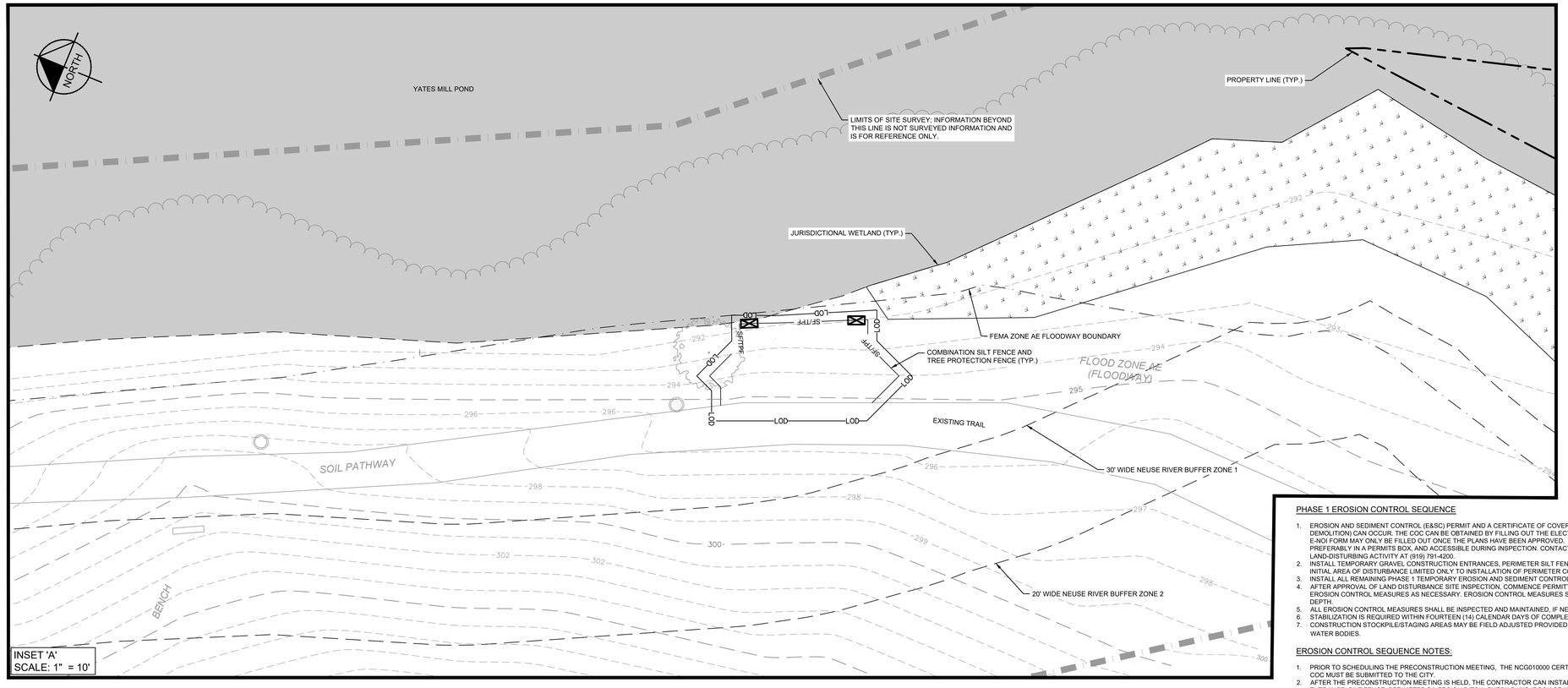
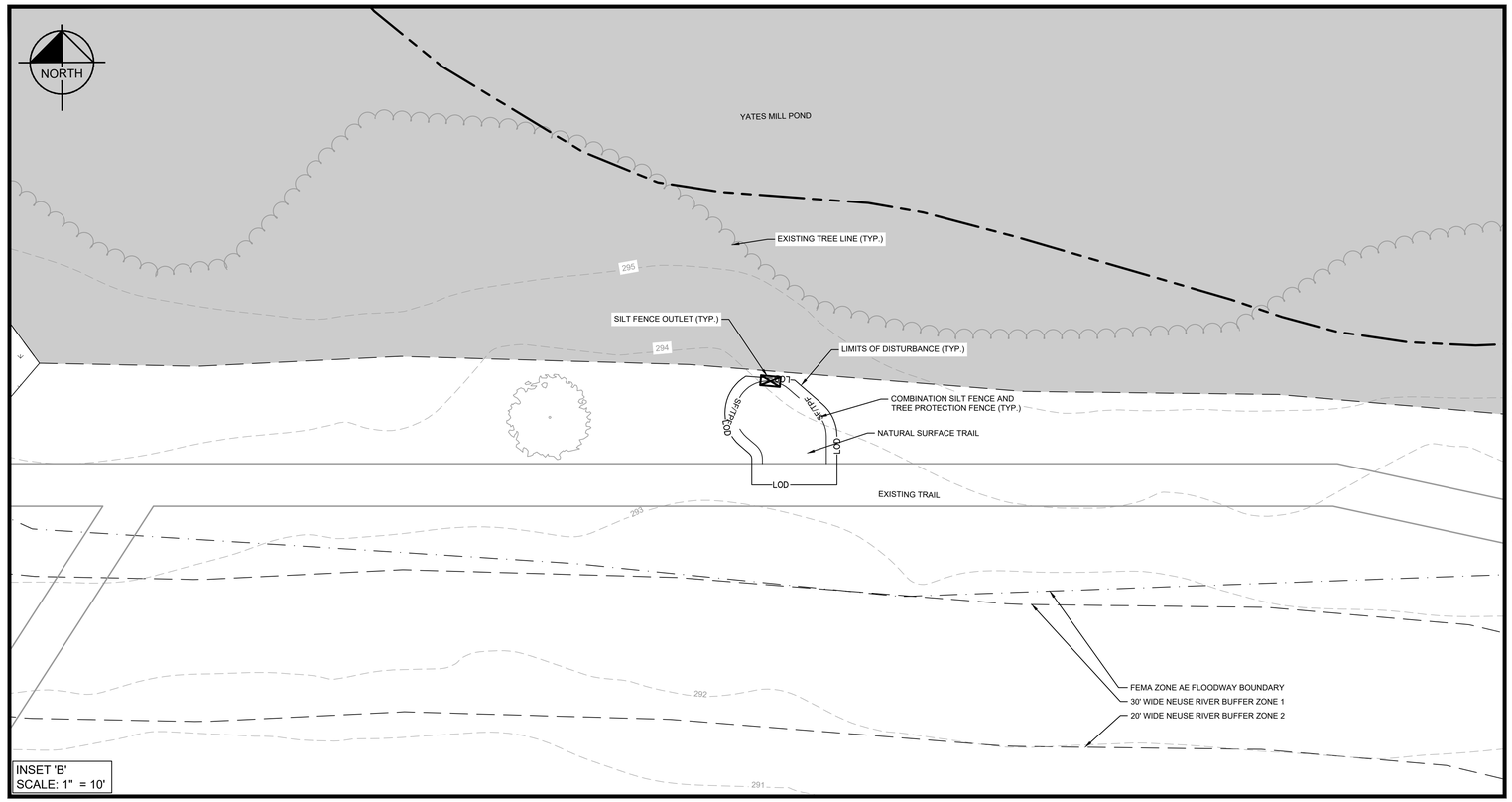


INSET 'A'
SCALE: 1" = 10'



INSET 'B'
SCALE: 1" = 10'

EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF/TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

PHASE 1 EROSION CONTROL SEQUENCE

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITY (INCLUDING TIMBERING AND DEMOLITION) CAN OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT HTTPS://WWW.DEQ.NC.GOV/NCG01. PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITY AT (919) 791-4200.
2. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCE, AND COMBINATION SILT FENCE AND TREE PROTECTION FENCE SURROUNDING THE SITE. MAKE INITIAL AREA OF DISTURBANCE LIMITED ONLY TO INSTALLATION OF PERIMETER CONTROLS.
3. INSTALL ALL REMAINING PHASE 1 TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. AFTER APPROVAL OF LAND DISTURBANCE SITE INSPECTION, COMMENCE PERMITTED LAND DISTURBING ACTIVITY. CLEARING, GRADING, AND DEMOLITION OF SITE, MAINTAINING EROSION CONTROL MEASURES AS NECESSARY. EROSION CONTROL MEASURES SHALL BE RESTORED TO ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO 50% OF DESIGN DEPTH.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.
6. STABILIZATION IS REQUIRED WITHIN FOURTEEN (14) CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON PROJECT SITE.
7. CONSTRUCTION STOCKPILE/STAGING AREAS MAY BE FIELD ADJUSTED PROVIDED MEASURES ARE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS AND SURFACE WATER BODIES.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCG010000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
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3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
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5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
15. CONSTRUCTION STOCKPILES/STAGING MAY BE FIELD LOCATED/ADJUSTED PROVIDED MEASURES SHALL BE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS, AND SURFACE WATER BODIES. CONTRACTOR SHALL NOT RELOCATE THE CONSTRUCTION STOCKPILE/STAGING AREA TO BE WITHIN THE NEUSE RIVER BUFFER AREA OR FEMA FLOODWAY AS DELINEATED IN THE PLANS. CONTRACTOR TO CONFIRM STAGING AREA LOCATION ADJUSTMENTS WITH ENGINEER PRIOR TO RELOCATION.

EROSION CONTROL NOTES:
I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 209 TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 6 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE. ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

GRAPHIC SCALE IN FEET
0 5 10 20

811 Know what's below. Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 049180 ENGINEER ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

EROSION CONTROL PLAN - PHASE 1 - MILL POND OVERLOOKS

SHEET NUMBER
C6.4

SELF MONITORING AND INSPECTION NOTIFICATION

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS BECAME EFFECTIVE OCTOBER 1, 2010. TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, A COMBINED FORM IS NOW AVAILABLE. THE NEW FORM WAS DEVELOPED TO SATISFY THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NCG 010000. BEGINNING AUGUST 1, 2013, THE DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES IS RESPONSIBLE FOR ADMINISTERING BOTH THE SPCA AND THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES, NCG 010000. THE COMBINED FORM SHOULD MAKE IT EASIER TO COMPLY WITH SELF-INSPECTION REQUIREMENTS. THE COMBINED SELF-MONITORING FORM IS AVAILABLE AS A PDF AND WORD DOCUMENT FROM THE LAND QUALITY WEB SITE, HTTP://PORTAL.NCDENR.ORG/WEB/LR/EROSION IF YOU HAVE QUESTIONS, PLEASE CONTACT THE LAND QUALITY SECTION AT NCDEQ REGIONAL OFFICE.

EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF/TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MID PINES RD.
PARTRIDGE BERRY DR
OLDE MILL FOREST DR.
NORTH CAROLINA STATE UNIVERSITY AGROECOLOGY EDUCATION FARM
FEMA ZONE AE FLOODPLAIN BOUNDARY
FEMA ZONE AE FLOODWAY BOUNDARY
30' WIDE NEUSE RIVER BUFFER ZONE 1
20' WIDE NEUSE RIVER BUFFER ZONE 2
JURISDICTIONAL WETLAND
TREE PROTECTION FENCE
EXISTING STAND OF TRILLIUM VEGETATION TO REMAIN UNDISTURBED
LEASE BOUNDARY (TYP.)
EQUIPMENT STORAGE BUILDING
100' WELL SETBACK
EXISTING WATER WELL AND WELL HOUSE
PLAN ENLARGEMENT - SEE SHEET C6.6
LIMITS OF DISTURBANCE (TYP.)
MILL POND PAVILION
FEMA ZONE AE FLOODPLAIN BOUNDARY
PROPERTY LINE (TYP.)
PLAN ENLARGEMENT - SEE SHEET C6.8
LAKE WHEELER ROAD PROPOSED ROUTE SHOWN FOR REFERENCE ONLY (NCDOT B-5683)
EXISTING RIGHT-OF-WAY LINE
A.E. FINLEY CENTER
PLAN ENLARGEMENT - SEE INSET 'A' ON SHEET C6.9
YATES MILL POND
PLAN ENLARGEMENT - SEE SHEET C6.9
EXISTING LOG CABIN
EXISTING HISTORIC YATES MILL
EXISTING YATES MILL DAM
EXISTING FIELD CLASSROOM
PLAN ENLARGEMENT - SEE INSET 'B' ON SHEET C6.9
LAKE WHEELER RD.
SUN VALLEY DR.
E VALLEY CT.
OATSTONE PL.
WATERWHEEL DR.
RANDOLPH CT.
SHULINS CT.
FARMER LN.
COUNTRY COVE LN.
YATES MILL POND RD.
PENNY RD.

NORTH

GRAPHIC SCALE IN FEET
0 100 200 400

811 Know what's below. Call before you dig.

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NORTH CAROLINA PROFESSIONAL SEAL 049181 ENGINEER JOHN S. ALLEMAN

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

OVERALL EROSION CONTROL PLAN - PHASE 2

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.5

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PHASE 2 EROSION CONTROL SEQUENCE

1. ONCE PHASE 1 EROSION CONTROL MEASURES ARE IN PLACE AND HAVE BEEN APPROVED BY NCDEQ, WORK CAN BEGIN ON PHASE 2.
2. CONTINUE SITE GRADING, MAINTAIN CONSTRUCTION ENTRANCES, SILT FENCE, COMBINATION SILT FENCE AND TREE PROTECTION FENCE, INLET PROTECTION, AND DIVERSION DITCHES/PERMANENT SWALES.
3. MASS GRADE SITE TO PROPOSED SUBGRADE. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
4. PERMANENT SWALE #1 SHALL BE INSTALLED UPSTREAM OF ADJACENT RETAINING WALLS PRIOR TO THE START OF THE WALL CONSTRUCTION TO PRECLUDE SEDIMENT RUNOFF FROM IMPACTING THE WALL. CONSTRUCT RETAINING WALL PER PLANS.
5. PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN OR EQUAL TO 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF GRADING. PROVIDE GROUND COVER TO ALL OTHER AREAS WITHIN 14 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY.
6. INSTALL THE PROPOSED STORM DRAINAGE SYSTEM WITH ASSOCIATED INLET PROTECTION AND WATER AND ELECTRIC AS SHOWN ON PLANS. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES EVERY SEVEN (7) CALENDAR DAYS AND AFTER EVERY RAINFALL EVENT. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPLACED IMMEDIATELY.
7. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OR RELOCATION OF ANY EROSION CONTROL MEASURE. ALL RIPRAP SHALL BE REPLENISHED AS NECESSARY AND FREE OF SEDIMENT.
8. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF RALEIGH STANDARDS.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCG010000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
2. AFTER THE PRECONSTRUCTION MEETING IS HELD, THE CONTRACTOR CAN INSTALL INITIAL EROSION CONTROL MEASURES ONLY. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIVERSION DITCH, CHECK DAMS (ROCK OR WADDLE TYPE), TREE PROTECTION FENCE, EXISTING INLET PROTECTION, SKIMMER SEDIMENT BASINS, AND SEDIMENT TRAPS. CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
4. ONCE MEASURES ARE INSTALLED, CONTRACTOR/FRO TO CALL NCDEQ/DEMLR AT 919-791-4200 FOR AN INITIAL INSPECTION. IF SITE PASSES INSPECTION, A CERTIFICATE OF COMPLIANCE WILL BE ISSUED. CONTRACTOR CAN NOW BEGIN CLEARING, GRUBBING, AND GRADING.
5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
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14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
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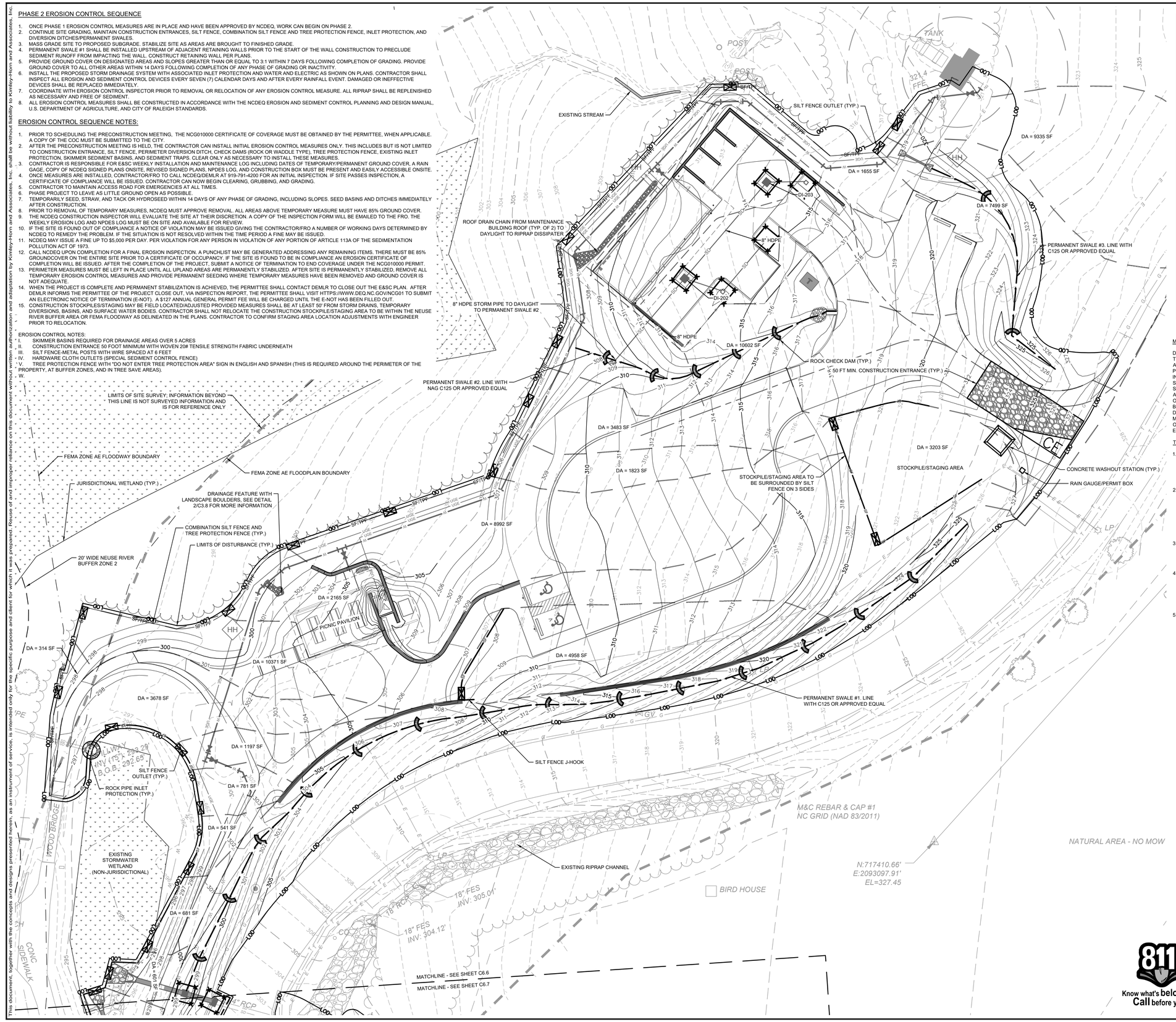
EROSION CONTROL NOTES:

- I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
- II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 20# TENSILE STRENGTH FABRIC UNDERNEATH
- III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 4 FEET
- IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
- V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).
- VI.



EROSION CONTROL LEGEND

	PROPERTY LINE
LOD	LIMITS OF DISTURBANCE
SF	SILT FENCE
TPF	TREE PROTECTION FENCE
SF / TPF	COMBINATION TREE PROTECTION/ SILT FENCE
TD → TD	TEMPORARY DIVERSION DITCH
TD(CW)	CLEAN WATER DIVERSION DITCH
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
	DRAINAGE AREA BOUNDARY
CE	CONSTRUCTION ENTRANCE
	SILT FENCE OUTLET
	CONCRETE WASHOUT STATION
	ROCK CHECK DAM
	INLET PROTECTION
	ROCK PIPE INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	RIP-RAP OUTLET PROTECTION
	DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
	TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MAINTENANCE NOTES:

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THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

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3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
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5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

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No.	REVISIONS	DATE	BY
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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053193 ANDREW S. ALTSCHUL

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL PLAN - PHASE 2 - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.6

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PHASE 2 EROSION CONTROL SEQUENCE

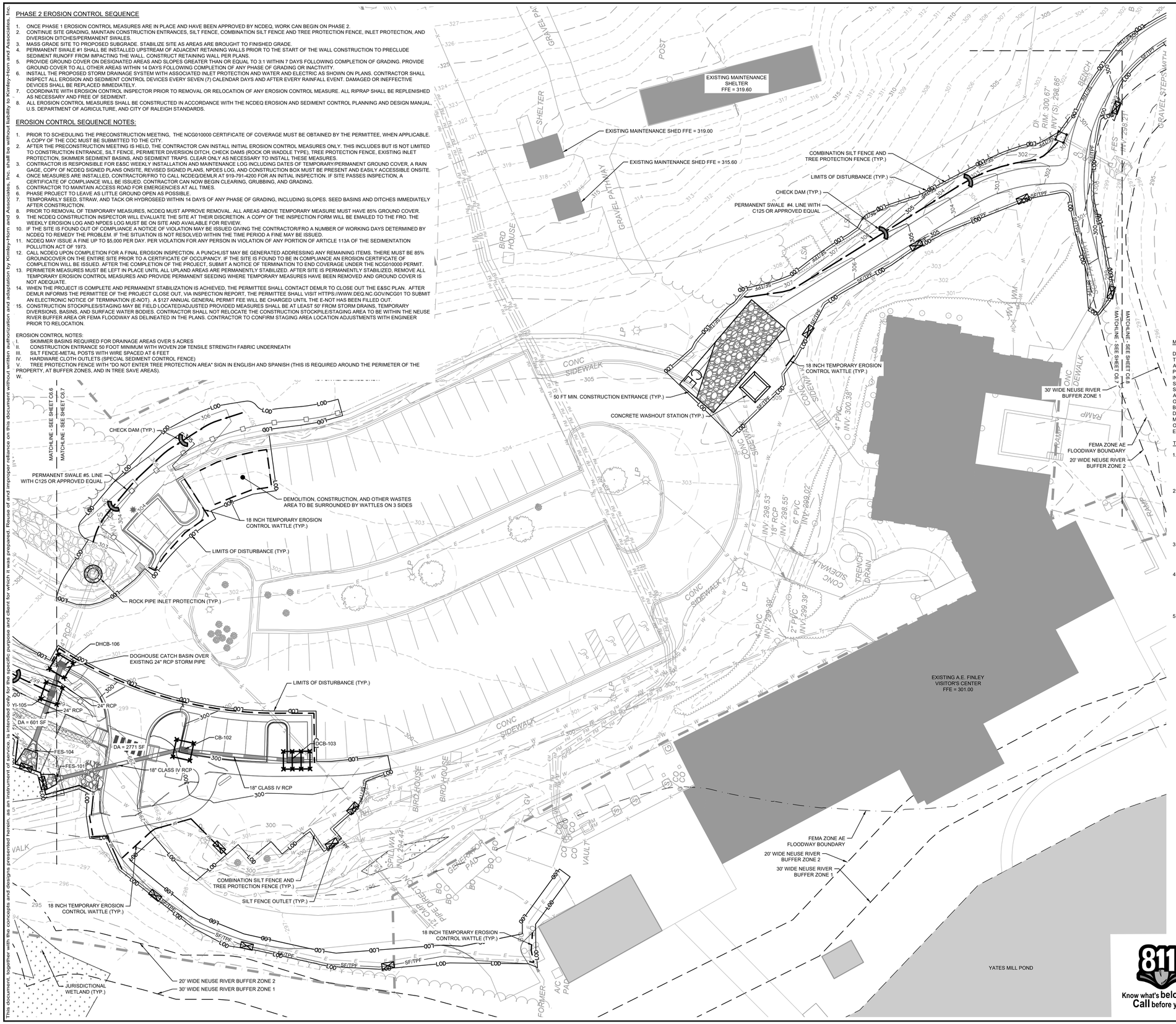
1. ONCE PHASE 1 EROSION CONTROL MEASURES ARE IN PLACE AND HAVE BEEN APPROVED BY NCDEQ, WORK CAN BEGIN ON PHASE 2.
2. CONTINUE SITE GRADING, MAINTAIN CONSTRUCTION ENTRANCES, SILT FENCE, COMBINATION SILT FENCE AND TREE PROTECTION FENCE, INLET PROTECTION, AND DIVERSION DITCHES/PERMANENT SWALES.
3. MASS GRADE SITE TO PROPOSED SUBGRADE. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
4. PERMANENT SWALE #1 SHALL BE INSTALLED UPSTREAM OF ADJACENT RETAINING WALLS PRIOR TO THE START OF THE WALL CONSTRUCTION TO PRECLUDE SEDIMENT RUNOFF FROM IMPACTING THE WALL. CONSTRUCT RETAINING WALL PER PLANS.
5. PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN OR EQUAL TO 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF GRADING. PROVIDE GROUND COVER TO ALL OTHER AREAS WITHIN 14 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY.
6. INSTALL THE PROPOSED STORM DRAINAGE SYSTEM WITH ASSOCIATED INLET PROTECTION AND WATER AND ELECTRIC AS SHOWN ON PLANS. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES EVERY SEVEN (7) CALENDAR DAYS AND AFTER EVERY RAINFALL EVENT. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPLACED IMMEDIATELY.
7. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OR RELOCATION OF ANY EROSION CONTROL MEASURE. ALL RIPRAP SHALL BE REPLENISHED AS NECESSARY AND FREE OF SEDIMENT.
8. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF RALEIGH STANDARDS.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCG010000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
2. AFTER THE PRECONSTRUCTION MEETING IS HELD, THE CONTRACTOR CAN INSTALL INITIAL EROSION CONTROL MEASURES ONLY. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIVERSION DITCH, CHECK DAMS (ROCK OR WADDLE TYPE), TREE PROTECTION FENCE, EXISTING INLET PROTECTION, SKIMMER SEDIMENT BASINS, AND SEDIMENT TRAPS. CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
4. ONCE MEASURES ARE INSTALLED, CONTRACTOR/FRO TO CALL NCDEQ/DEMLR AT 919-791-4200 FOR AN INITIAL INSPECTION. IF SITE PASSES INSPECTION, A CERTIFICATE OF COMPLIANCE WILL BE ISSUED. CONTRACTOR CAN NOW BEGIN CLEARING, GRUBBING, AND GRADING.
5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
15. CONSTRUCTION STOCKPILES/STAGING MAY BE FIELD LOCATED/ADJUSTED PROVIDED MEASURES SHALL BE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS, AND SURFACE WATER BODIES. CONTRACTOR SHALL NOT RELOCATE THE CONSTRUCTION STOCKPILE/STAGING AREA TO BE WITHIN THE NEUSE RIVER BUFFER AREA OR FEMA FLOODWAY AS DELINEATED IN THE PLANS. CONTRACTOR TO CONFIRM STAGING AREA LOCATION ADJUSTMENTS WITH ENGINEER PRIOR TO RELOCATION.

EROSION CONTROL NOTES:

I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 20# TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 4 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).
W.



EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF / TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) → — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN; EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

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	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn

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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 2302 ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021		
DATE	10/01/2026		
SCALE	AS SHOWN		
DESIGNED BY		ASA	
DRAWN BY		MGL	
CHECKED BY		JDK	

EROSION CONTROL PLAN - PHASE 2 - THE MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.7

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PHASE 2 EROSION CONTROL SEQUENCE

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2. CONTINUE SITE GRADING, MAINTAIN CONSTRUCTION ENTRANCES, SILT FENCE, COMBINATION SILT FENCE AND TREE PROTECTION FENCE, INLET PROTECTION, AND DIVERSION DITCHES/PERMANENT SWALES.
3. MASS GRADE SITE TO PROPOSED SUBGRADE. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
4. PERMANENT SWALE #1 SHALL BE INSTALLED UPSTREAM OF ADJACENT RETAINING WALLS PRIOR TO THE START OF THE WALL CONSTRUCTION TO PRECLUDE SEDIMENT RUNOFF FROM IMPACTING THE WALL. CONSTRUCT RETAINING WALL PER PLANS.
5. PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN OR EQUAL TO 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF GRADING. PROVIDE GROUND COVER TO ALL OTHER AREAS WITHIN 14 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY.
6. INSTALL THE PROPOSED STORM DRAINAGE SYSTEM WITH ASSOCIATED INLET PROTECTION AND WATER AND ELECTRIC AS SHOWN ON PLANS. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES EVERY SEVEN (7) CALENDAR DAYS AND AFTER EVERY RAINFALL EVENT. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPLACED IMMEDIATELY.
7. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OR RELOCATION OF ANY EROSION CONTROL MEASURE. ALL RIPRAP SHALL BE REPLENISHED AS NECESSARY AND FREE OF SEDIMENT.
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6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES. SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY. PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
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14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
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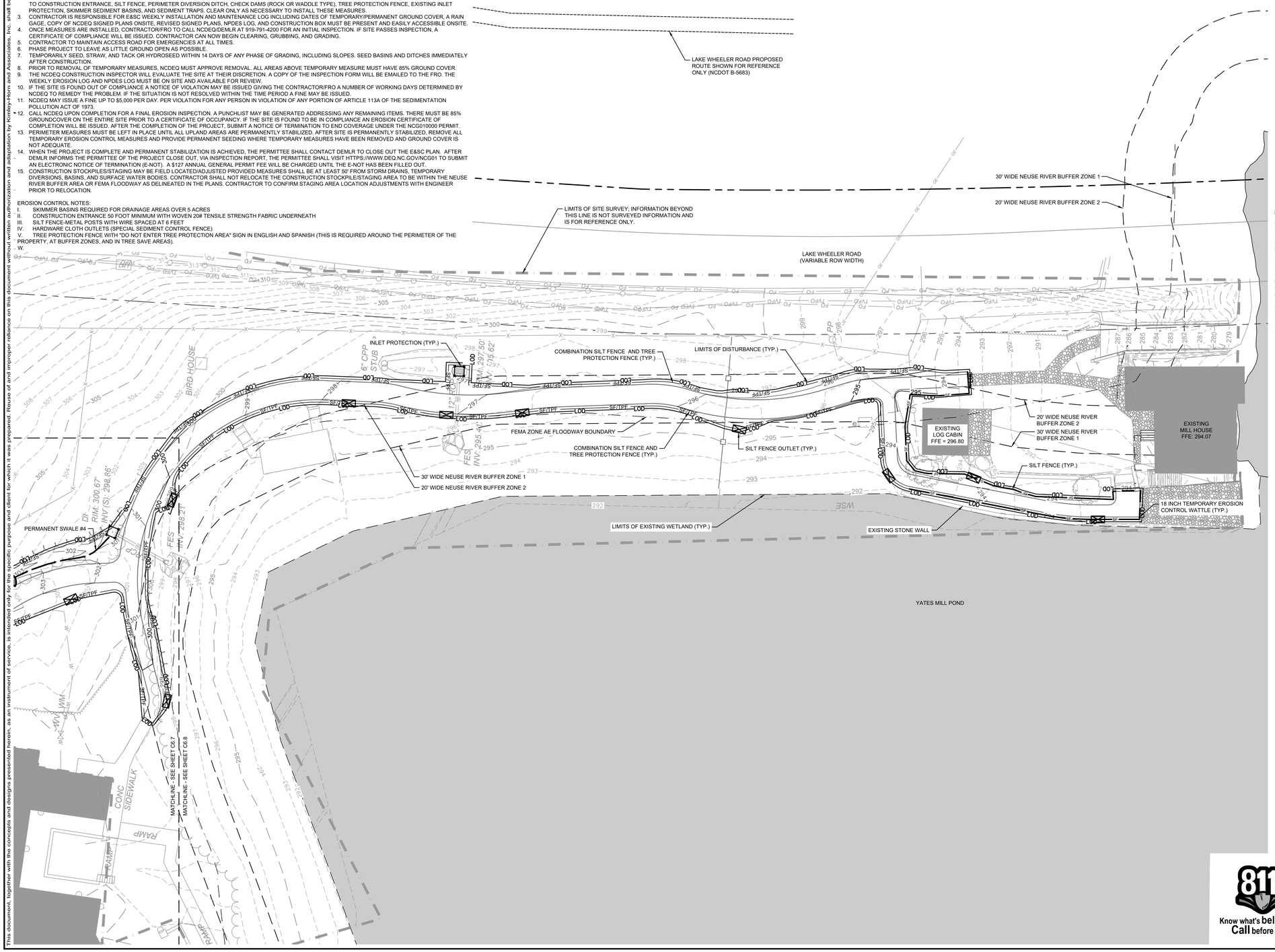
EROSION CONTROL NOTES:

I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 20# TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 6 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).
VI.



EROSION CONTROL LEGEND

PROPERTY LINE	
LOD	LIMITS OF DISTURBANCE
SF	SILT FENCE
TPF	TREE PROTECTION FENCE
SF/TPF	COMBINATION TREE PROTECTION/ SILT FENCE
TD → TD	TEMPORARY DIVERSION DITCH
TD(CW)	CLEAN WATER DIVERSION DITCH
805	EXISTING CONTOUR
805	PROPOSED CONTOUR
	DRAINAGE AREA BOUNDARY
CE	CONSTRUCTION ENTRANCE
	SILT FENCE OUTLET
	CONCRETE WASHOUT STATION
	ROCK CHECK DAM
	INLET PROTECTION
	ROCK PIPE INLET PROTECTION
	TEMPORARY SLOPE DRAIN
	RIP-RAP OUTLET PROTECTION
	DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
	TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN; EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
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4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM. AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

811 Know what's below. Call before you dig.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513

NORTH CAROLINA PROFESSIONAL SEAL 049161 ENGINEER ANDREW S. ALTSCHUL

10/01/2026

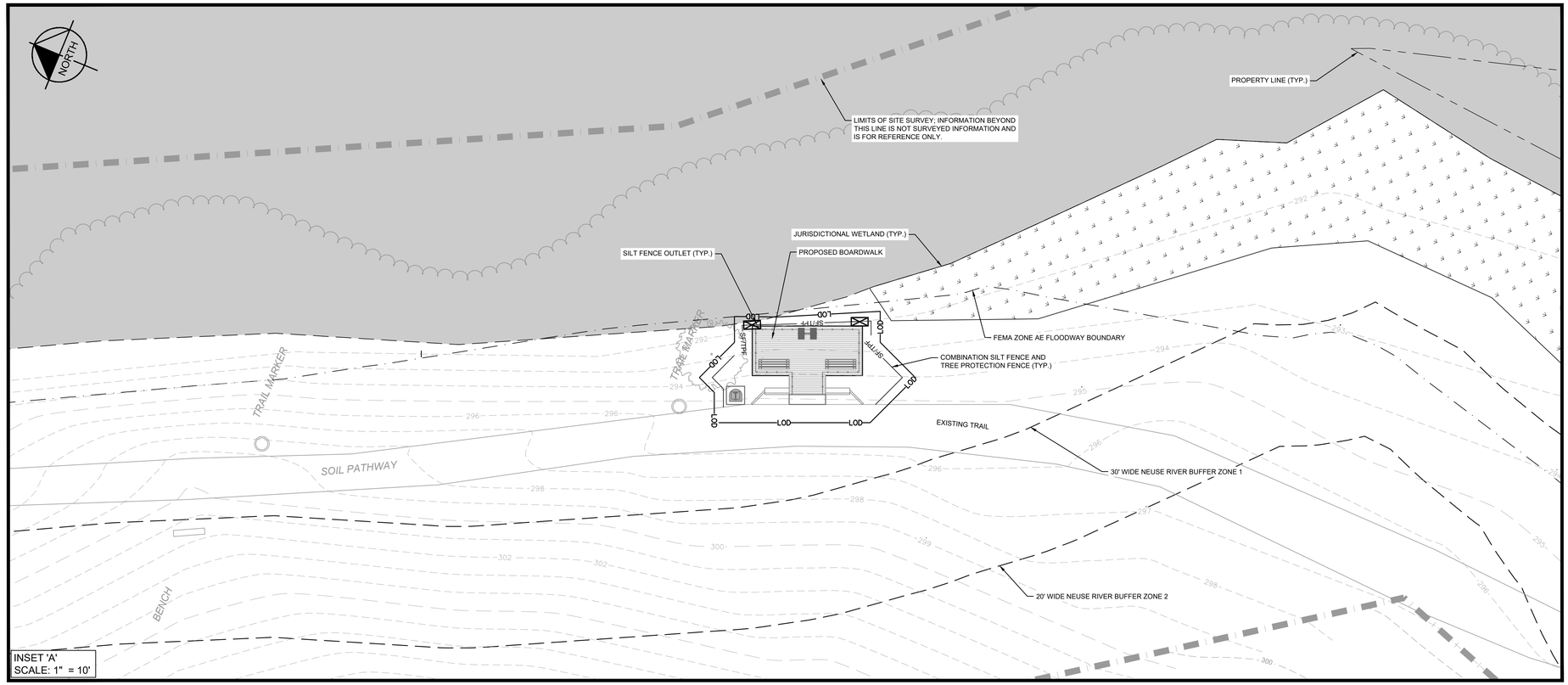
KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL PLAN - PHASE 2 - THE MILL

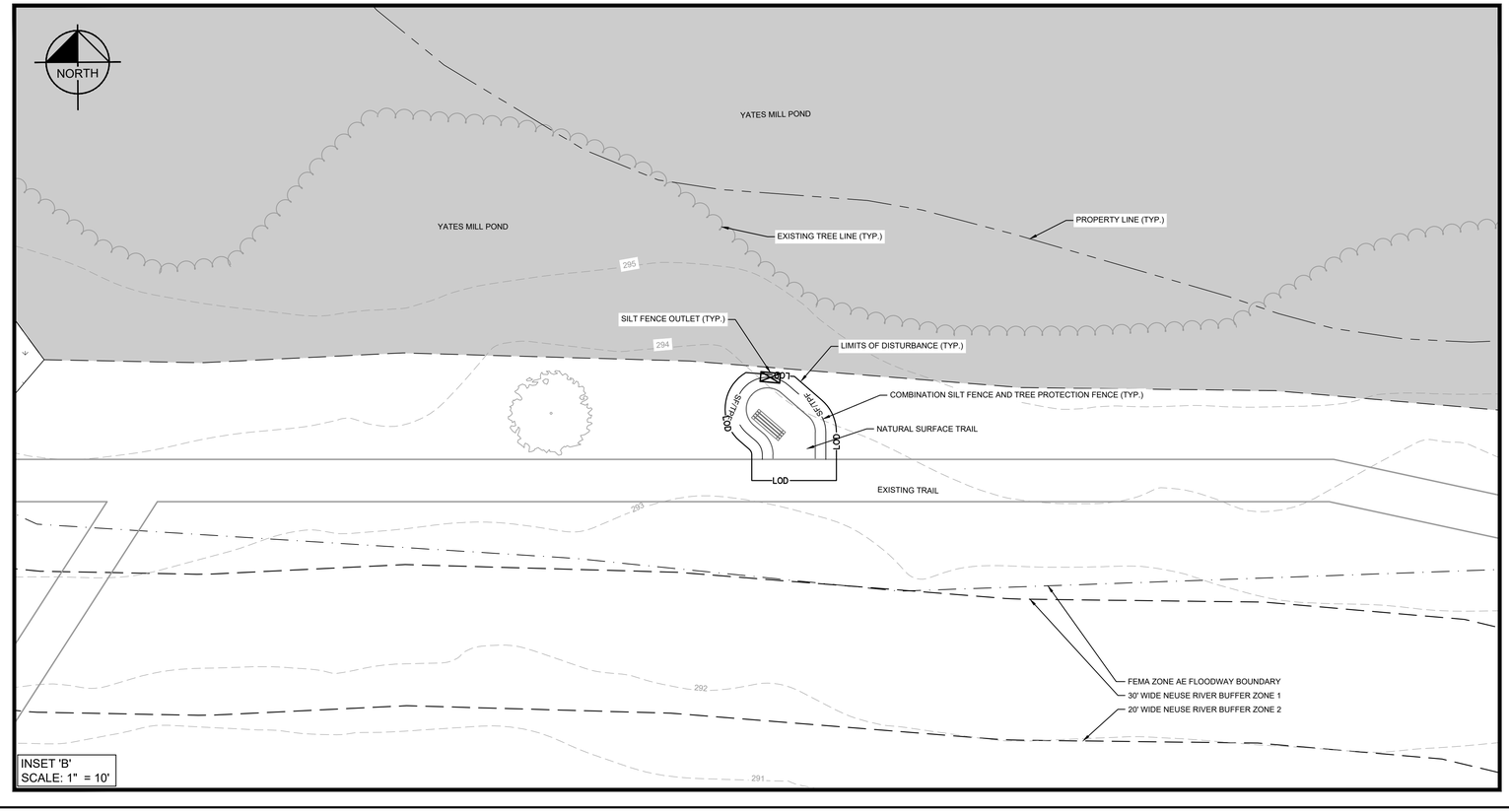
HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.8

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



INSET 'A'
SCALE: 1" = 10'



INSET 'B'
SCALE: 1" = 10'

EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF/TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

PHASE 2 EROSION CONTROL SEQUENCE

1. ONCE PHASE 1 EROSION CONTROL MEASURES ARE IN PLACE AND HAVE BEEN APPROVED BY NCDEQ, WORK CAN BEGIN ON PHASE 2.
2. CONTINUE SITE GRADING, MAINTAIN CONSTRUCTION ENTRANCES, SILT FENCE, COMBINATION SILT FENCE AND TREE PROTECTION FENCE, INLET PROTECTION, AND DIVERSION DITCHES/PERMANENT SWALES.
3. MASS GRADE SITE TO PROPOSED SUBGRADE. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
4. PERMANENT SWALE #1 SHALL BE INSTALLED UPSTREAM OF ADJACENT RETAINING WALLS PRIOR TO THE START OF THE WALL CONSTRUCTION TO PRECLUDE SEDIMENT RUNOFF FROM IMPACTING THE WALL. CONSTRUCT RETAINING WALL PER PLANS.
5. PROVIDE GROUND COVER ON DESIGNATED AREAS AND SLOPES GREATER THAN OR EQUAL TO 3:1 WITHIN 7 DAYS FOLLOWING COMPLETION OF GRADING. PROVIDE GROUND COVER TO ALL OTHER AREAS WITHIN 14 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY.
6. INSTALL THE PROPOSED STORM DRAINAGE SYSTEM WITH ASSOCIATED INLET PROTECTION AND WATER AND ELECTRIC AS SHOWN ON PLANS. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES EVERY SEVEN (7) CALENDAR DAYS AND AFTER EVERY RAINFALL EVENT. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPLACED IMMEDIATELY.
7. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OR RELOCATION OF ANY EROSION CONTROL MEASURE. ALL RIPRAP SHALL BE REPLENISHED AS NECESSARY AND FREE OF SEDIMENT.
8. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND CITY OF RALEIGH STANDARDS.

EROSION CONTROL SEQUENCE NOTES:

1. PRIOR TO SCHEDULING THE PRECONSTRUCTION MEETING, THE NCGO10000 CERTIFICATE OF COVERAGE MUST BE OBTAINED BY THE PERMITTEE, WHEN APPLICABLE. A COPY OF THE COC MUST BE SUBMITTED TO THE CITY.
2. AFTER THE PRECONSTRUCTION MEETING IS HELD, THE CONTRACTOR CAN INSTALL INITIAL EROSION CONTROL MEASURES ONLY. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIVERSION DITCH, CHECK DAMS (ROCK OR WADDLE TYPE), TREE PROTECTION FENCE, EXISTING INLET PROTECTION, SKIMMER SEDIMENT BASINS, AND SEDIMENT TRAPS. CLEAR ONLY AS NECESSARY TO INSTALL THESE MEASURES.
3. CONTRACTOR IS RESPONSIBLE FOR E&SC WEEKLY INSTALLATION AND MAINTENANCE LOG INCLUDING DATES OF TEMPORARY/PERMANENT GROUND COVER, A RAIN GAGE, COPY OF NCDEQ SIGNED PLANS ONSITE, REVISED SIGNED PLANS, NPDES LOG, AND CONSTRUCTION BOX MUST BE PRESENT AND EASILY ACCESSIBLE ONSITE.
4. ONCE MEASURES ARE INSTALLED, CONTRACTOR/FRO TO CALL NCDEQ/DEMLR AT 919-791-4200 FOR AN INITIAL INSPECTION. IF SITE PASSES INSPECTION, A CERTIFICATE OF COMPLIANCE WILL BE ISSUED. CONTRACTOR CAN NOW BEGIN CLEARING, GRUBBING, AND GRADING.
5. CONTRACTOR TO MAINTAIN ACCESS ROAD FOR EMERGENCIES AT ALL TIMES.
6. PHASE PROJECT TO LEAVE AS LITTLE GROUND OPEN AS POSSIBLE.
7. TEMPORARILY SEED, STRAW, AND TACK OR HYDROSEED WITHIN 14 DAYS OF ANY PHASE OF GRADING, INCLUDING SLOPES, SEED BASINS AND DITCHES IMMEDIATELY AFTER CONSTRUCTION.
8. PRIOR TO REMOVAL OF TEMPORARY MEASURES, NCDEQ MUST APPROVE REMOVAL. ALL AREAS ABOVE TEMPORARY MEASURE MUST HAVE 85% GROUND COVER.
9. THE NCDEQ CONSTRUCTION INSPECTOR WILL EVALUATE THE SITE AT THEIR DISCRETION. A COPY OF THE INSPECTION FORM WILL BE EMAILED TO THE FRO. THE WEEKLY EROSION LOG AND NPDES LOG MUST BE ON SITE AND AVAILABLE FOR REVIEW.
10. IF THE SITE IS FOUND OUT OF COMPLIANCE A NOTICE OF VIOLATION MAY BE ISSUED GIVING THE CONTRACTOR/FRO A NUMBER OF WORKING DAYS DETERMINED BY NCDEQ TO REMEDY THE PROBLEM. IF THE SITUATION IS NOT RESOLVED WITHIN THE TIME PERIOD A FINE MAY BE ISSUED.
11. NCDEQ MAY ISSUE A FINE UP TO $5,000 PER DAY, PER VIOLATION FOR ANY PERSON IN VIOLATION OF ANY PORTION OF ARTICLE 113A OF THE SEDIMENTATION POLLUTION ACT OF 1973.
12. CALL NCDEQ UPON COMPLETION FOR A FINAL EROSION INSPECTION. A PUNCHLIST MAY BE GENERATED ADDRESSING ANY REMAINING ITEMS. THERE MUST BE 85% GROUNDCOVER ON THE ENTIRE SITE PRIOR TO A CERTIFICATE OF OCCUPANCY. IF THE SITE IS FOUND TO BE IN COMPLIANCE AN EROSION CERTIFICATE OF COMPLETION WILL BE ISSUED. AFTER THE COMPLETION OF THE PROJECT, SUBMIT A NOTICE OF TERMINATION TO END COVERAGE UNDER THE NCG010000 PERMIT.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
14. WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT HTTPS://WWW.DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
15. CONSTRUCTION STOCKPILES/STAGING MAY BE FIELD LOCATED/ADJUSTED PROVIDED MEASURES SHALL BE AT LEAST 50' FROM STORM DRAINS, TEMPORARY DIVERSIONS, BASINS, AND SURFACE WATER BODIES. CONTRACTOR SHALL NOT RELOCATE THE CONSTRUCTION STOCKPILE/STAGING AREA TO BE WITHIN THE NEUSE RIVER BUFFER AREA OR FEMA FLOODWAY AS DELINEATED IN THE PLANS. CONTRACTOR TO CONFIRM STAGING AREA LOCATION ADJUSTMENTS WITH ENGINEER PRIOR TO RELOCATION.

EROSION CONTROL NOTES:
I. SKIMMER BASINS REQUIRED FOR DRAINAGE AREAS OVER 5 ACRES
II. CONSTRUCTION ENTRANCE 50 FOOT MINIMUM WITH WOVEN 20# TENSILE STRENGTH FABRIC UNDERNEATH
III. SILT FENCE-METAL POSTS WITH WIRE SPACED AT 6 FEET
IV. HARDWARE CLOTH OUTLETS (SPECIAL SEDIMENT CONTROL FENCE)
V. TREE PROTECTION FENCE WITH "DO NOT ENTER TREE PROTECTION AREA" SIGN IN ENGLISH AND SPANISH (THIS IS REQUIRED AROUND THE PERIMETER OF THE PROPERTY, AT BUFFER ZONES, AND IN TREE SAVE AREAS).

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

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   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
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5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

GRAPHIC SCALE IN FEET
0 5 10 20

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

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Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 049181 ENGINEER ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL PLAN - PHASE 2 - MILL POND OVERLOOKS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.9

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

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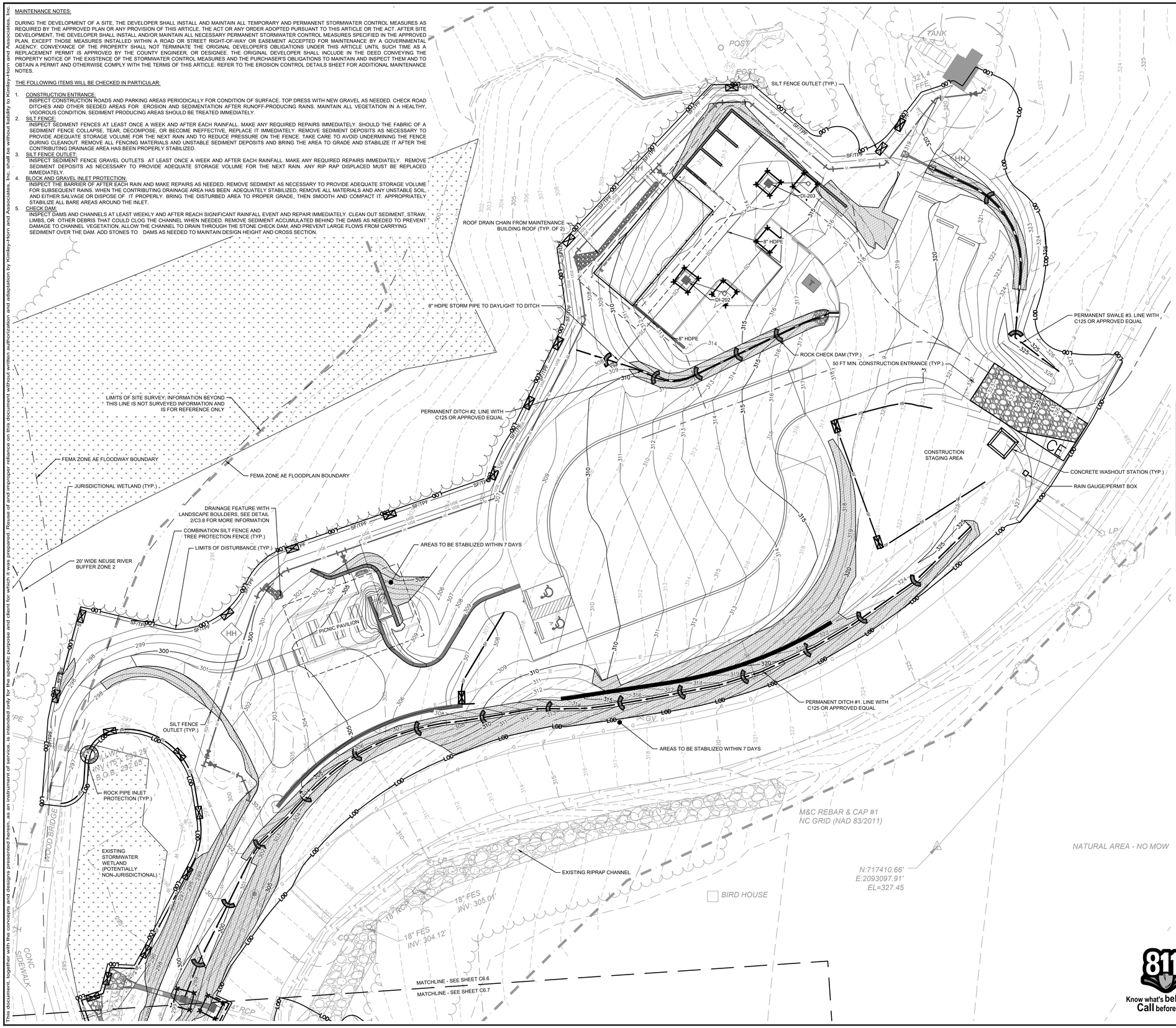

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- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

LIMITS OF DISTURBANCE = 3.00 AC

NPDES NOTE:

1. THIS PAGE SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000;
2. THIS PAGE CAN BE APPROVED BY THE CITY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY;
3. THIS PAGE OF APPROVED PLAN IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000;
4. THE CITY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER CITY CODE.

EROSION CONTROL MAINTENANCE:

1. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
2. MAINTAIN AND VERTICALLY ADJUST SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS TO SILT FENCE OUTLETS.
3. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY OR AFTER RAINFALL EVENTS OF 1/2" OR MORE. CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS.
4. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY OF RALEIGH INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

NPDES GROUND COVER REQUIREMENTS

SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES. CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

REFER TO EROSION CONTROL DETAILS FOR SEEDBED PREPARATION, AND SEEDING SCHEDULE

DISTURBED AREA: 3 AC

SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
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NORTH

GRAPHIC SCALE IN FEET
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	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053993 JOHN S. ALTAMER

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

NPDES
STABILIZATION PLAN
- MILL POND
PAVILION

HISTORIC YATES MILL
COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES
DESIGN & CONSTRUCTION
WAKE COUNTY
NORTH CAROLINA

SHEET NUMBER
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5. CHECK DAM:
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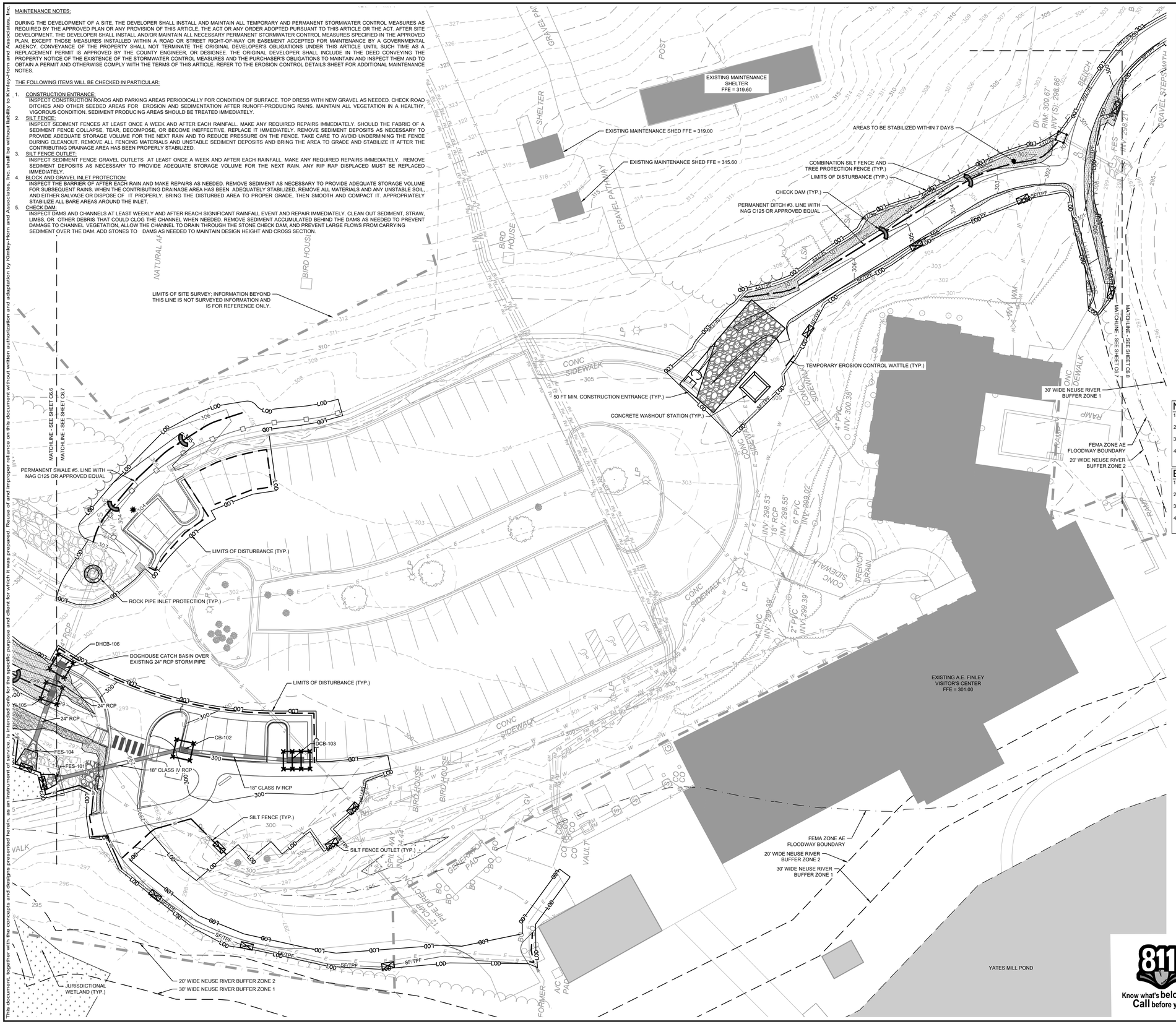

EROSION CONTROL LEGEND

- PROPERTY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TPF — TREE PROTECTION FENCE
- SF / TPF — COMBINATION TREE PROTECTION/ SILT FENCE
- TD → TD — TEMPORARY DIVERSION DITCH
- TD(CW) → — CLEAN WATER DIVERSION DITCH
- 805 — EXISTING CONTOUR
- 805 — PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- CE — CONSTRUCTION ENTRANCE
- SILT FENCE OUTLET
- CONCRETE WASHOUT STATION
- ROCK CHECK DAM
- INLET PROTECTION
- ROCK PIPE INLET PROTECTION
- TEMPORARY SLOPE DRAIN
- RIP-RAP OUTLET PROTECTION
- DESIGNATED AREAS TO BE STABILIZED WITHIN 7 DAYS
- TEMPORARY EROSION CONTROL MATTING

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NORTH CAROLINA PROFESSIONAL SEAL 049183 ENGINEER JOHN S. ALTAMURO

10/01/2026

KHA PROJECT 012262021
DATE 10/01/2026
SCALE AS SHOWN
DESIGNED BY ASA
DRAWN BY MGL
CHECKED BY JDK

NPDES STABILIZATION PLAN - THE MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.11

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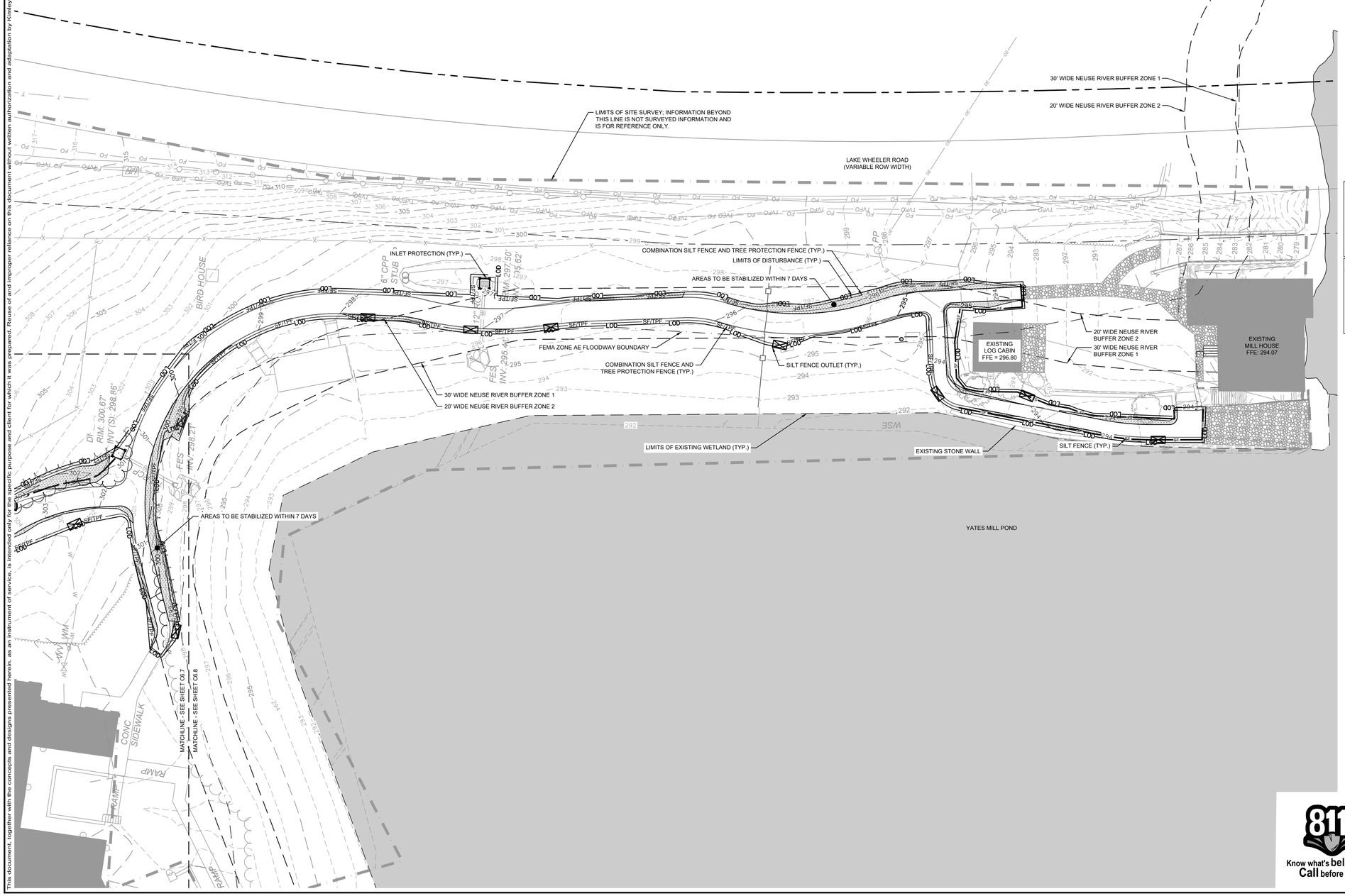

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LIMITS OF DISTURBANCE = 3.00 AC

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053853 ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

NPDES STABILIZATION PLAN - THE MILL

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
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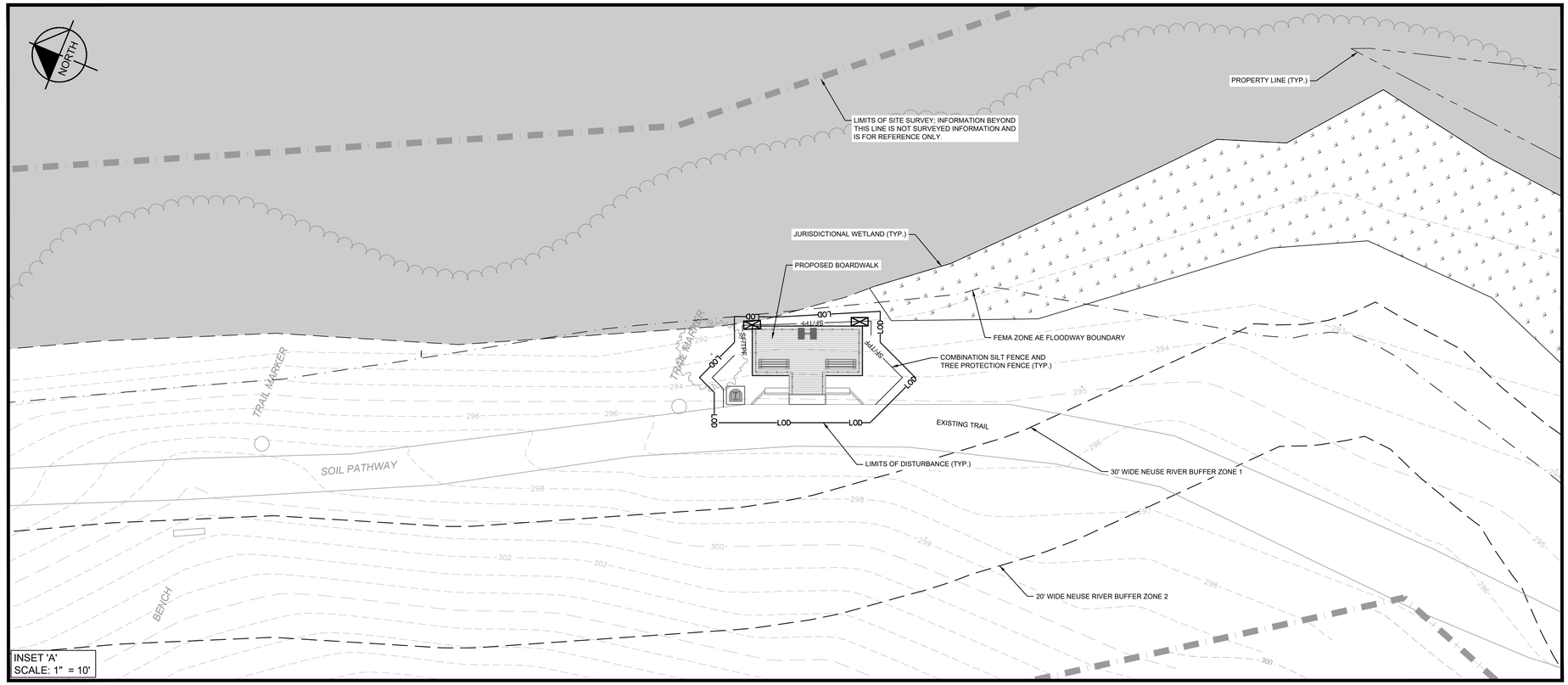

INSET 'A'
SCALE: 1" = 10'

EROSION CONTROL LEGEND

PROPERTY LINE	
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SF/TPF	COMBINATION TREE PROTECTION/ SILT FENCE
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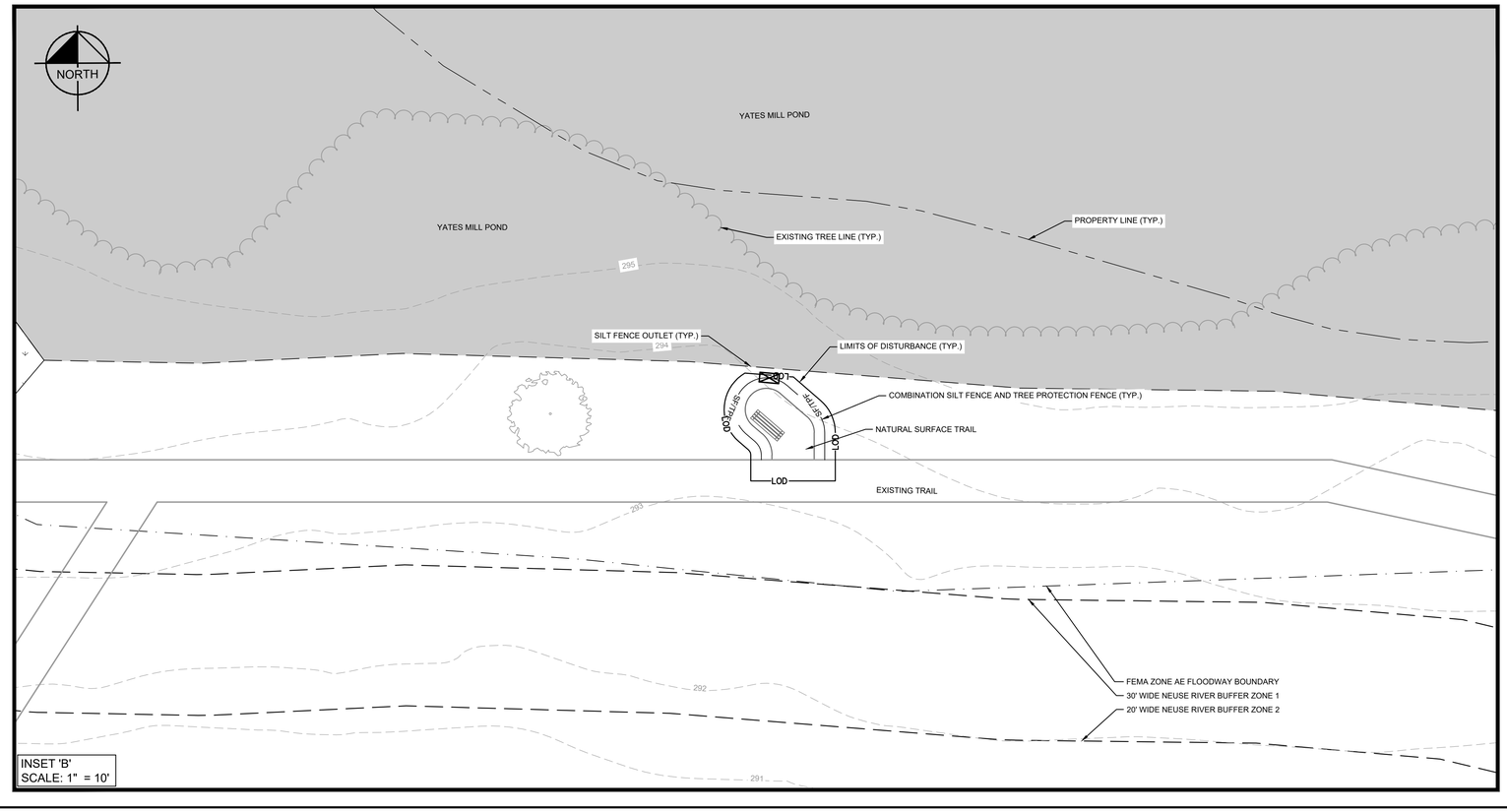

INSET 'B'
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DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

NPDES GROUND COVER REQUIREMENTS

SILT FENCES SHOWN ON PLANS ARE FOR REPRESENTATIVE PURPOSES. CONSTRUCT DIRECTLY ALONG THE CLEARING LIMITS WHERE APPLICABLE.

SILT FENCE OUTLETS ARE TO BE PROVIDED ALONG ALL LOW POINTS OF SILT FENCE AND AREAS WHERE RUNOFF MAY CONCENTRATE CAUSING DAMAGE TO SILT FENCE. CONTRACTOR TO INSTALL OUTLETS AS NECESSARY TO ENSURE SILT FENCE IS FULLY FUNCTIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.

REFER TO EROSION CONTROL DETAILS FOR SEEDBED PREPARATION, AND SEEDING SCHEDULE

DISTURBED AREA: 3 AC

SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1. 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE EXCEPT FOR PERIMETERS AND HQW ZONES

GRAPHIC SCALE IN FEET
0 5 10 20

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

811 Know what's below. Call before you dig.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 050999 ENGINEER ANDREW S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

NPDES STABILIZATION PLAN - MILL POND OVERLOOKS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.13

DATE: PAGE:

CONSIDERATIONS FOR CONSTRUCTION SCHEDULING

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
CONSTRUCTION ACCESS: Construction entrance, construction routes, equipment parking areas.	First land-disturbing activity- Stabilize bare areas immediately with gravel and temporary vegetation as construction takes place.
SEDIMENT TRAPS AND BARRIERS: Basin traps, sediment fences, and outlet protection.	Install principal basins after construction site is accessed. Install additional traps and barriers as needed during grading.
RUNOFF CONTROL: Diversions, perimeter dikes, water bars, and outlet protection.	Install key practices after principal sediment traps and before land grading. Install additional runoff-control measures during grading.
RUNOFF CONVEYANCE SYSTEM: Stabilize streambanks, storm drains, channels, inlet and outlet protection, and slope drains.	Where necessary, stabilize streambanks as early as possible. Install principal runoff conveyance system with runoff-control measures. Install remainder of system after grading.
LANDING CLEARING AND GRADING: Site preparation- cutting, filling and grading, sediment traps, barriers, diversions, drains, and surface roughening.	Begin major clearing and grading **AFTER** principal sediment and key runoff-control measures are installed. Clear borrow and disposal areas only as needed. Install additional control measures as grading progresses. Mark trees and buffer areas for preservation.
SURFACE STABILIZATION: Temporary and permanent seeding, mulching, sodding and riprap.	Apply temporary or permanent stabilization measures immediately on all disturbed areas where work is delayed or complete.
BUILDING CONSTRUCTION: Buildings, utilities, and paving.	Install necessary additional erosion and sedimentation control practices as work takes place.
LANDSCAPE AND FINAL STABILIZATION: Topsoiling, trees and shrubs, permanent seeding, mulching, sodding, and riprap.	Last construction phase: Stabilize all open areas, including borrow and spoil areas. Remove and stabilize all temporary control areas.

NOTE: The above are the main aspects of a typical construction sequence in general terms. A detailed Construction Sequence should be site specific based on your project and site needs. As a minimum, the construction sequence schedule should show the following:

- The erosion and sedimentation control practices to be installed,
- Principal development activities,
- What measures should be in place before other activities are begun, and
- Compatibility with the general construction schedule of the contract.

Many timely construction techniques can reduce the erosion potential of a site, such as (1) shaping earthen fills daily to prevent overflows and (2) constructing temporary diversions ahead of anticipated storms. These types of activities cannot be put on the construction sequence schedule, but should be used whenever possible.

CONSTRUCTION SEQUENCING

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

DATE: PAGE:

SPACING GUIDE FOR SLOPE BREAKS		
	SLOPE	SPACING (FT)
Steep Slopes	2:1	20
	3:1	35
	4:1	45
Long Slopes	15-25%	50
	10-15%	80
	6-10%	125
	3-6%	200
	<3%	300

Use slope breaks, such as diversions, wattles, or benches, as appropriate, to reduce the length of cut-and-fill slope to limit sheet and rill erosion and prevent gullying.

MAINTENANCE:
1. Periodically check all graded areas and the supporting erosion and sedimentation control practices, especially after heavy rainfalls.
2. Promptly remove all sediment from diversions and other water-disposal practices.
3. If washouts or breaks occur, repair immediately.
4. Prompt maintenance of small eroded areas before they become significant gullies is an essential part of an effective erosion and sedimentation control plan.

NOTES:
1. Construct and maintain all erosion and sediment control practices and measures in accordance with the approved sedimentation control plan and construction schedule.
2. Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas.
3. Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil.
4. Clear and grub areas to be filled by removing trees, vegetation, roots, or other objectionable material that would affect the planned stability of the fill.
5. Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials inappropriate for constructing stable fills.
6. Place all fill in layers not to exceed 9 inches in thickness, and compact the layers as required to reduce erosion, slippage, settlement, or other related problems.
7. Do not incorporate frozen, soft, mucky, or highly compressible materials into fill slopes.
8. Do not place fill on a frozen foundation, due to possible subsidence and slippage.
9. Keep diversions and other water conveyance measures free of sediment during all phases of development.
10. Handle seeps or springs encountered during construction in accordance with approved methods (subsurface drain).
11. Permanently stabilize all graded areas immediately after final grading is completed on each area in the grading plan. Apply temporary stabilization measures on all graded areas when work is to be interrupted or delayed for 30 days or longer.
12. Show topsoil, stockpiles, borrow areas, and spoil areas on the plans, and make sure they are adequately protected from erosion. Include final stabilization of these areas in the plan.

LAND GRADING

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

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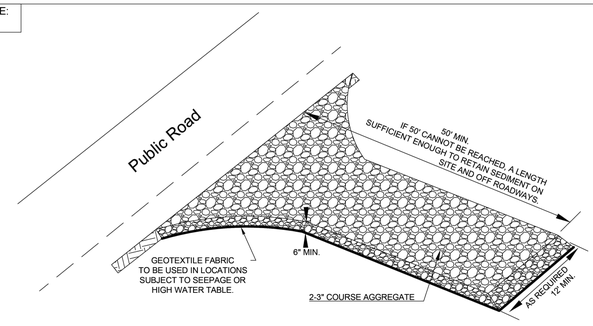


Construction:
1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
3. Provide drainage to carry water to a sediment trap or other suitable outlet.
4. Use geotextile fabrics in order to improve stability of the foundation in locations subject to seepage or high water table.

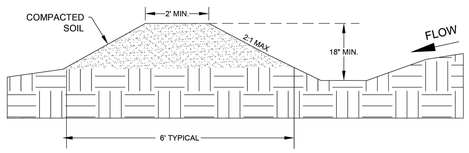
Maintenance:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
2. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone.
3. Sediment on roadways is to be removed immediately by broom and shovel, either by manual or mechanical means, and not to be washed off where it has the potential to enter a stream, drainage way or storm drain system.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

DATE: PAGE:

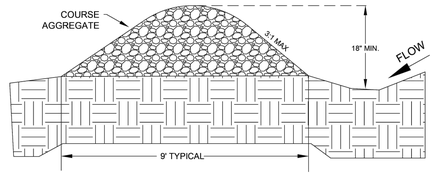
TEMPORARY EARTHEN DIVERSION DIKE



NOTES:
1. Remove and properly dispose of all tree, brush, stumps, and other objectionable material.
2. Temporary diversions are to only be used for drainage areas of 5 acres or less.
3. Ridges will have a 2 feet minimum top width, 2:1 or flatter side slopes and a minimum of 0.3 feet freeboard.
4. Channels will have a parabolic, trapezoidal, or V shape with side slopes of 2:1 or flatter.
5. Any point where vehicles will be crossing should have 3:1 or flatter side slopes.
6. Ensure the top of the dike is not lower at any point than the design elevation plus the specified settlement.
7. Provide sufficient room around diversions to permit machine re-grading and cleanout.
8. Vegetate the ridge immediately after construction unless it will remain in place less than 30 working days.

MAINTENANCE:
1. Inspect all measures at least weekly and after every rainfall of 1.0 inch or greater.
2. Make all repairs immediately.
3. Immediately remove any sediment from the flow area and repair the diversion ridge.
4. Check outlets and make timely repairs as needed.

TEMPORARY GRAVEL DIVERSION DIKE FOR VEHICLE CROSSING



TEMPORARY DIVERSIONS

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

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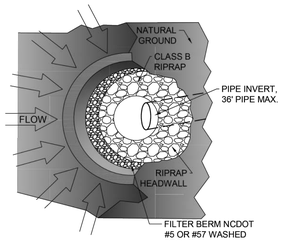
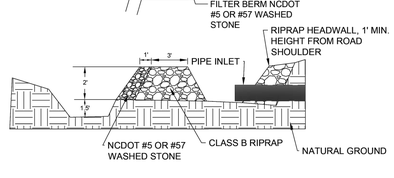


NOTES:
1. Clear the area of all debris that might hinder excavation and disposal of spoil.
2. Install the Class B or Class 1 riprap in a semi-circle around the pipe inlet. The stone should be built up higher on each end where it ties into the embankment. The minimum crest width of the riprap should be 3 feet, with a minimum bottom width of 11 feet. The minimum height should be 2 feet, but also 1 foot lower than the embankment of diversions.
3. A 1 foot thick layer of NC DOT #5 or #57 stone should be placed on the outside slope of the riprap.
4. The sediment storage area should be excavated around the outside of the stone horseshoe 18 inches below natural grade.
5. When contributing drainage area has been stabilized, remove the pipe and rock, fill depression, establish final grading elevations, compact the area properly, and stabilize with ground cover.

MAINTENANCE:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater and repair immediately.
2. Remove sediment and restore the sediment storage area to its original dimensions when the sediment has accumulated to one-half the design depth of the trap.
3. Place the sediment that is removed in the designated disposal area and replace the contaminated part of the gravel facing.
4. Check the structure for damage. Any riprap displaced from the stone horseshoe must be replaced immediately.
5. After all the sediment-producing areas have been permanently stabilized, remove the structure and all the unstable sediment. Smooth the area to blend with the adjoining areas and provide permanent ground cover.



ROCK PIPE INLET PROTECTION

Effective Date: 9/1/2023
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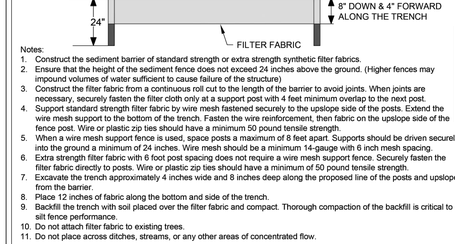

Notes:
1. Construct the sediment barrier of standard strength or extra strength synthetic filter fabrics.
2. Ensure that the height of the sediment fence does not exceed 24 inches above the ground. (Higher fences may impound volumes of water sufficient to cause failure of the structure)
3. Construct the filter fabric from a continuous roll cut to the length of the barrier to avoid joints. When joints are necessary, securely fasten the filter cloth only at a support post with 4 feet minimum overlap to the next post.
4. Support standard strength filter fabric by wire mesh fastened securely to the upslope side of the posts. Extend the wire mesh support to the bottom of the trench. Fasten the wire reinforcement, then fabric on the upslope side of the fence post. Wire or plastic zip ties should have a minimum 50 pound tensile strength.
5. When a wire mesh support fence is used, space posts a maximum of 8 feet apart. Supports should be driven securely into the ground a minimum of 24 inches. Wire mesh should be a minimum 14-gauge with 6 inch mesh spacing.
6. Extra strength filter fabric with 6 foot post spacing does not require a wire mesh support fence. Securely fasten the filter fabric directly to posts. Wire or plastic zip ties should have a minimum of 50 pound tensile strength.
7. Excavate the trench approximately 4 inches wide and 8 inches deep along the proposed line of the posts and upslope from the barrier.
8. Place 12 inches of fabric along the bottom and side of the trench.
9. Backfill the trench with soil placed over the filter fabric and compact. Thorough compaction of the backfill is critical to silt fence performance.
10. Do not attach filter fabric to existing trees.
11. Do not place across ditches, streams, or any other areas of concentrated flow.

Max. Slope Length and Slope for Which Sediment Fence is Applicable

Slope	Slope Length (ft)	Max. Area (ft²)
<2%	100	10,000
2 to 5%	75	7,500
5 to 10%	50	5,000
10 to 20%	25	2,500
>20%	15	1,500

Maintenance:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
2. Should the fabric of a sediment fence collapse, tear, decompose, or become ineffective, replace it promptly.
3. Remove sediment deposits as necessary to provide adequate storage volume for the next rain and reduce pressure on the fence. Take care to avoid undermining the fence during cleanouts.
4. Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

SEDIMENT FENCE

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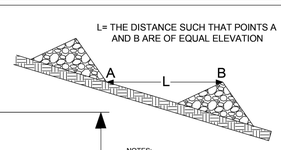
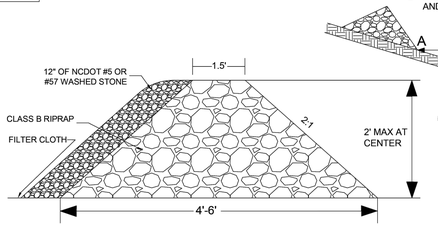
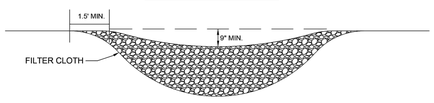




CROSS-SECTION VIEW



PLAN VIEW

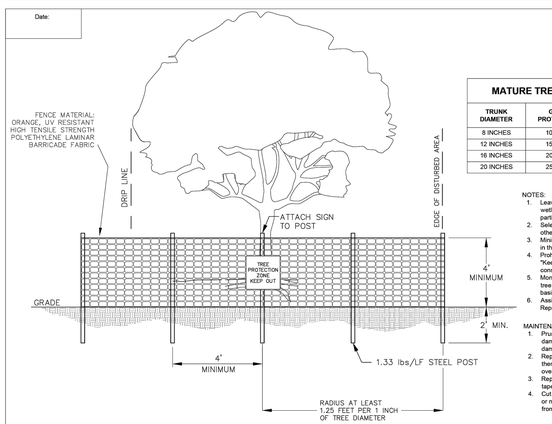
NOTES:
1. Place stone on a filter fabric foundation.
2. The center stone section must be at least 9 inches below natural ground level where the dam abuts the channel banks.
3. Extend stone at least 1.5 feet beyond the ditch bank to keep water from cutting around the ends of the check dam.
4. Set spacing between dams to assure that the elevation at the top of the lower dam is the same as the toe elevation of the upper dam.
5. Protect the channel after the lowest check dam from heavy flow that could cause erosion.
6. Make sure the channel reach above the most upstream dam is stable.
7. Ensure that other areas of the channel, such as culvert entrances below the check dams, are not subject to damage or blockage from displaced stones.
8. Riprap and filter fabric should be keyed in to prevent under cutting.
9. Ends of check dams may need to be turned uphill to prevent bypass and better conform to site conditions.
10. Do not place check dams in intermittent or perennial streams.

MAINTENANCE:
1. Inspect check dams and channels at least weekly and after each rainfall of 1.0 inch or greater. Clean out sediment, straw, limbs or other debris that could clog the channel when needed.
2. Anticipate submergence and deposition above the check dam and erosion from high flows around the edges of the dam. Correct all damage immediately. If significant erosion occurs between dams, additional measures can be taken such as, installing a protective riprap liner in that portion of the channel.
3. Remove sediment accumulated behind the dams as needed to prevent damage to channel vegetation, allow the channel to drain through the stone check dam, and prevent large flows from carrying sediment over the dam. Add stones to the dams as needed to maintain design height and cross section.

CHECK DAM

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

Date: Page:



MATURE TREE PROTECTION ZONE RADIUS

TRUNK DIAMETER	GOOD PROTECTION	BETTER PROTECTION	BEST PROTECTION
8 INCHES	10 FEET	12 FEET	20 FEET
12 INCHES	15 FEET	18 FEET	30 FEET
16 INCHES	20 FEET	24 FEET	40 FEET
20 INCHES	25 FEET	30 FEET	50 FEET

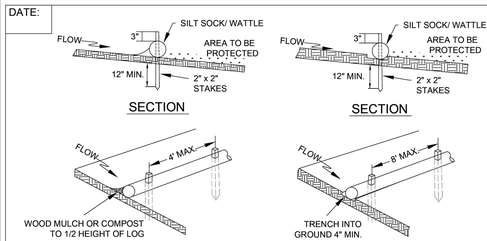
NOTES:
1. Leave critical areas (such as flood plains, steep slopes and wetlands) with desirable trees in their natural condition or only partially cleared.
2. Select trees to be preserved before siting roads, buildings or other structures.
3. Minimize trenching in areas with trees. Place several utilities in the same trench.
4. Prohibit or restrict access to tree protection zones(TPZ). Post "Keep Out" signs on all sides of fencing and do not store construction equipment or materials in TPZ.
5. Monitor trees using a professional or train your staff to monitor tree health during and after construction on a regular, frequent basis.
6. Assign a crew member to weekly TPZ fence integrity checks. Repair and replace TPZ fencing as needed.

MAINTENANCE:
1. Prune any damaged trees. In spite of precautions, some damage to protected trees may occur. In such cases, repair any damage to the crown, trunk, or root system immediately.
2. Repair roots by cutting off the damaged areas and painting them them with tree paint. Spread peat moss or moist topsoil over exposed roots.
3. Repair damage to bark by trimming around the damaged area, taper the cut to provide drainage and paint with tree paint.
4. Cut off all damaged tree limbs above the tree collar at the trunk or main branch. Use three separate cuts to avoid peeling bark from healthy areas of the tree.

NORTH CAROLINA Environmental Quality
EFFECTIVE DATE7/1/2009

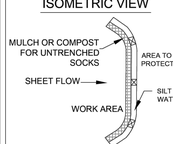
TREE PROTECTION ZONES

DATE: PAGE:



UNTRENCHED INSTALLATION

ISOMETRIC VIEW



ENTRENCHED INSTALLATION*

*THIS APPLICATION MAY NOT BE USED WITH COMPOST SOCKS SMALLER THAN 12".

COMPOST SOCK INITIAL FLOW RATES					
Compost Sock Design Diameter	8 Inch (200 nm)	12 Inch (300 nm)	18 Inch (450 nm)	24 Inch (600 nm)	32 Inch (750 nm)
Maximum Slope Length (<2%)	600 Feet (183 m)	750 Feet (229 m)	1,000 Feet (305 m)	1,300 Feet (396 m)	1,650 Feet (500 m)
Hydraulic Flow Through Rate	7.5 gpm/ft (94 l/m/m)	11.3 gpm/ft (141 l/m/m)	15.0 gpm/ft (188 l/m/m)	22.5 gpm/ft (281 l/m/m)	30.0 gpm/ft (374 l/m/m)

NOTE:
1. Other materials providing equivalent protection against erosive velocities may be substituted for compost use in silt socks or wattles.
2. Fill silt sock/wattle netting uniformly with compost to the desired length such that logs do not deform.
3. Silt sock/Wattle(s) should be installed parallel to and a minimum of 10 feet beyond the toe of a graded slope. Silt Sock/Wattle(s) located below flat areas should be located at the edge of the land disturbance. The ends of the silt sock/wattle(s) should be turned slightly upslope to prevent runoff from going around the end of the silt sock/wattle(s).
4. Oak or other durable hardwood stakes with a 2 inch x 2 inch cross section should be driven vertically plumb, through the center of the silt sock/wattle. Stakes should be placed at a maximum interval of 4 feet or a maximum interval of 8 feet if the silt sock/wattle is placed in a 4 inch trench.
5. In the event staking is not possible (ie. when socks/wattles are used on pavement) heavy concrete blocks shall be used behind the silt sock/wattle to hold it in place during runoff events.

MAINTENANCE:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater.
2. Remove accumulated sediment and any debris as needed to allow for adequate flow.
3. Silt sock/Wattle must be replaced if clogged or torn.
4. If ponding becomes excessive, the silt sock/wattle may need to be replaced with a larger diameter or a different measure.
5. Reinstall if damaged or dislodged.
6. Silt socks/wattles shall be inspected until land disturbance is compete and the area above the measure has been permanently stabilized.

SILT SOCK / WATTLE FOR PERIMETER AND INLET PROTECTION

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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NORTH CAROLINA PROFESSIONAL SEAL 049863 ENGINEER ANDREW S. ALTSCHUL

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.14

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C6.14 EROSION CONTROL DETAILS October 07, 2026 02:34:56pm K:\RAL_LDEV\012262021 - Water\CoPs_Historic\Yates\Mill\Planning Phase\P1\0_CAD Files\02_PlanSheets\C6.14 EROSION CONTROL DETAILS.dwg
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PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the measures inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Indication of whether the measures were operating properly 5. Description of maintenance needs for the measure 6. Description, Evidence, and date of corrective actions taken
(3) Stormwater discharge outfalls(SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the discharge outfalls inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration 5. Indication of visible sediment leaving the site 6. Description, Evidence, and date 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 record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases
(5) Streams or wetlands 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 has visible increased turbidity from the construction activity, then a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken 2)Records of required reports to the appropriate Division Regional Office per Part III, Section C, Item(2)(a) of this permit
(6) Ground Stabilization Measures	After each phase of grading.	1. 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). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or assurance that they will be provided as soon as possible.

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

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

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

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

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

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported
Permittees shall report the following occurrences:
(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

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

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

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

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

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

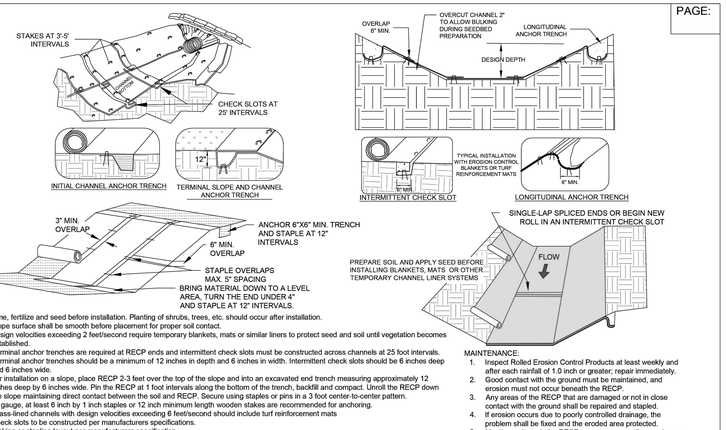
NORTH CAROLINA DEQ Department of Environmental Quality

INSPECTION, RECORD KEEPING AND REPORTING

Effective: April 1, 2024

DATE:

PAGE:



NOTES:
1. Lime, fertilize and seed before installation. Planting of shrubs, trees, etc. should occur after installation.
2. Slope surface shall be smooth before placement for proper soil contact.
3. Design velocities exceeding 2 feet/second require temporary blankets, mats or similar liners to protect seed and soil until vegetation becomes established.
4. Terminal anchor trenches are required at RECP ends and intermittent check slots must be constructed across channels at 25 foot intervals.
5. Terminal anchor trenches should be a minimum of 12 inches in depth and 6 inches in width. Intermittent check slots should be 6 inches deep and 6 inches wide.
6. For installation on a slope, place RECP 2-3 feet over the top of the slope and into an excavated end trench measuring approximately 12 inches deep by 6 inches wide. Pin the RECP at 1 foot intervals along the bottom of the trench, backfill and compact. Unroll the RECP down the slope maintaining direct contact between the soil and RECP. Secure using staples or pins in a 3 foot center-to-center pattern.
7. 11 gauge, at least 6 inch by 1 inch staples or 12 inch minimum length wooden stakes are recommended for anchoring.
8. Grass-lined channels with design velocities exceeding 8 feet/second should include turf reinforcement mats
9. Check slots to be constructed per manufacturers specifications.
10. Staking or stapling layout per manufacturers specification.
11. If there is a berm at the top of slope, anchor up-slope of the berm.
12. Do not stretch blankets/matting tight, allow the rolls to conform to any irregularities.
13. For slopes less than 3H:1V, rolls may be placed in horizontal strips.

MAINTENANCE:
1. Inspect Rolled Erosion Control Products at least weekly and after each rainfall of 1.0 inch or greater; repair immediately.
2. Good contact with the ground must be maintained, and erosion must not occur beneath the RECP.
3. Any areas of the RECP that are damaged or not in close contact with the ground shall be repaired and stapled.
4. If erosion occurs due to poorly controlled drainage, the problem shall be fixed and the eroded area protected.
5. Monitor and repair the RECP as necessary until ground cover is established.

NORTH CAROLINA DEQ Department of Environmental Quality

ROLLED EROSION CONTROL PRODUCTS

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

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

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

SECTION E: GROUND STABILIZATION

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

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

GROUND STABILIZATION SPECIFICATION

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

Temporary Stabilization	Permanent Stabilization
• 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 (PRSM) • 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 • Rolled erosion control products with grass seed

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not consitute permanet stabilization prior to the establishment of permanent vegetation.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. 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

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. 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.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

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

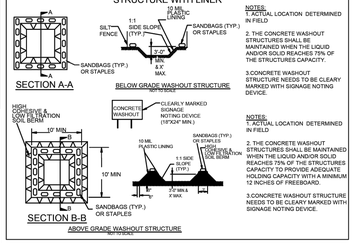
EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. It is recommended to locate stockpile areas at least 50 feet away from skimmer basins and anywhere stormwater flow is concentrated.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. 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.

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. 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.
4. Do not stockpile these materials onsite.

NORTH CAROLINA DEQ Department of Environmental Quality

GROUND COVER & MATERIALS HANDLING

Effective: April 1, 2024

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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NORTH CAROLINA PROFESSIONAL SEAL 053553 ENGINEER ANDREW S. ALTEMUS

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.15

Plotted By: Brown, Seth Sheet Set: Yates Mill County Park Layout: C06.15 EROSION CONTROL DETAILS October 07, 2026 02:34:45pm K:\RAL_LDEV\012262021 - WakeCoParks_HistoricYatesMillPlanning Phase\P10_CAD Files\02_PlanSheets\C06.15 EROSION CONTROL DETAILS.dwg
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(PS) PERMANENT SEEDING

OVERALL SITE SEEDING, SPRIGGING, AND SODDING

SEED, SPRIGG, & SOD ALL DISTURBED AREAS IN ACCORDANCE WITH LAWNS AND GRASSES SPECIFICATIONS AND L104 (SODDING AND SPRIGGING PLAN).

PERMANENT SEEDING IN AREAS RECEIVING EROSION CONTROL MATTING

PREPARE SEEDBED BY RIPPING, CHISELING, HARROWING, OR PLOWING TO DEPTH OF SIX INCHES SO AS TO PRODUCE A LOOSE, FRIABLE SURFACE. REMOVE ALL STONES, BOULDERS, STUMPS, OR DEBRIS FROM THE SURFACE WHICH WOULD PROHIBIT GERMINATION OR PLANT GROWTH.

INCORPORATE INTO THE SOIL 800 TO 1,000 POUNDS OF 10-10-10 FERTILIZER PLUS 500 POUNDS OF 20-PERCENT SUPERPHOSPHATE PER ACRE AND TWO TONS OF DOLOMITIC LIME PER ACRE UNLESS SOIL TESTS INDICATE THAT A LOWER RATE OF LIME CAN BE USED.

SEED AREA AND INSTALL EROSION CONTROL MATTING PER MANUFACTURER'S DETAIL.

MULCH AFTER SEEDING WITH 1.5 TONS OF GRAIN STRAW PER ACRE AND EITHER CRIMP STRAW INTO SOIL OR TACK WITH LIQUID ASPHALT AT 400 GALLONS PER ACRE OR EMULSIFIED ASPHALT AT 300 GALLONS PER ACRE.

PERMANENT SEEDING
SEEDING MIXTURE

"COOL SEASON" SEPTEMBER 1 - FEBRUARY 28

SPECIES	RATE (lb/ACRE)
SOFT RED WINTER WHEAT	50
RIVIERA BERMUDA (HULLED)	25
RIVIERA BERMUDA (UNHULLED)	25
INDIAN WOODOATS	15
EASTERN BOTTLEBRUSH GRASS	15
VIRGINIA WILD RYE	15

"WARM SEASON" MARCH 1 - AUGUST 31

SPECIES	RATE (lb/ACRE)
GERMAN, BROWN TOP, OR FOX TAIL MILLET	50
RIVIERA BERMUDA (HULLED)	50
LITTLE BLUESTEM	15
SWEET WOODREED	15

(TS) TEMPORARY SEEDING
FALL

SEEDING MIXTURE

SPECIES	RATE (lb/ACRE)
RYE (GRAIN)	120

SEEDING DATES

MOUNTAINS-AUG. 15 - DEC. 15
COASTAL PLAIN AND PIEDMONT-AUG. 15 - DEC. 30

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 lb/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 lb/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT AT A RATE OF 0.10 GALLONS PER SQUARE YARD, NETTING SUCH AS LIGHTWEIGHT PLASTIC, COTTON, JUTE, WIRE, OR PAPER NETS STAPLED OVER THE MULCH ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS, OR A MULCH ANCHORING TOOL SUCH AS A DISK SET NEARLY STRAIGHT.

MAINTENANCE

REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

(TS) TEMPORARY SEEDING
LATE WINTER/EARLY SPRING

SEEDING MIXTURE

SPECIES	RATE (lb/ACRE)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES
MOUNTAINS - ABOVE 2500 FT: FEB. 15 - MAY 15
BELOW 2500 FT: FEB. 1 - MAY 1
PIEDMONT - JAN. 1 - MAY 1
COASTAL PLAIN-DEC. 1 - APR. 15

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 lb/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 lb/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT AT A RATE OF 0.10 GALLONS PER SQUARE YARD, NETTING SUCH AS LIGHTWEIGHT PLASTIC, COTTON, JUTE, WIRE, OR PAPER NETS STAPLED OVER THE MULCH ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS, OR A MULCH ANCHORING TOOL SUCH AS A DISK SET NEARLY STRAIGHT.

MAINTENANCE

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

(TS) TEMPORARY SEEDING
SUMMER

SEEDING MIXTURE

SPECIES	RATE (lb/ACRE)
GERMAN MILLET	40

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 lb/ACRE.

SEEDING DATES

MOUNTAINS-MAY 15 - AUG. 15
PIEDMONT-MAY 1 - AUG. 15
COASTAL PLAIN-APR. 15 - AUG. 15

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 lb/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 lb/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT AT A RATE OF 0.10 GALLONS PER SQUARE YARD, NETTING SUCH AS LIGHTWEIGHT PLASTIC, COTTON, JUTE, WIRE, OR PAPER NETS STAPLED OVER THE MULCH ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS, OR A MULCH ANCHORING TOOL SUCH AS A DISK SET NEARLY STRAIGHT.

MAINTENANCE

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

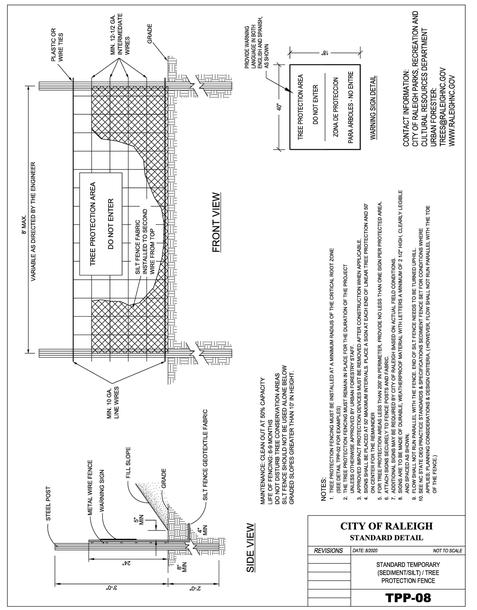
SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

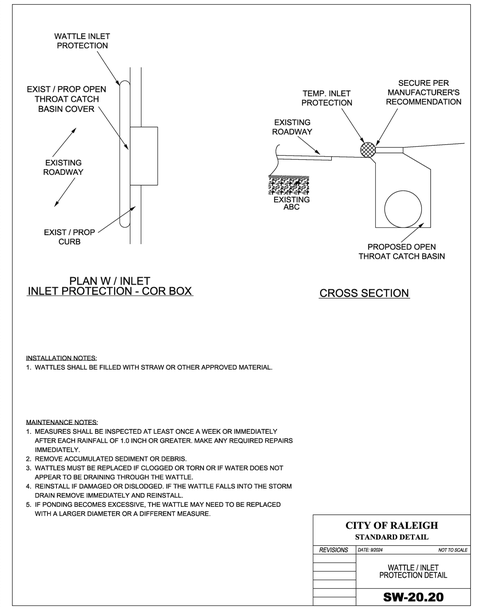
TEMPORARY AND PERMANENT SEEDING

Not to Scale



CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD TEMPORARY (SEDIMENT/SILT) / TREE PROTECTION FENCE	
	TPP-08	



PLAN W / INLET
INLET PROTECTION - COR BOX

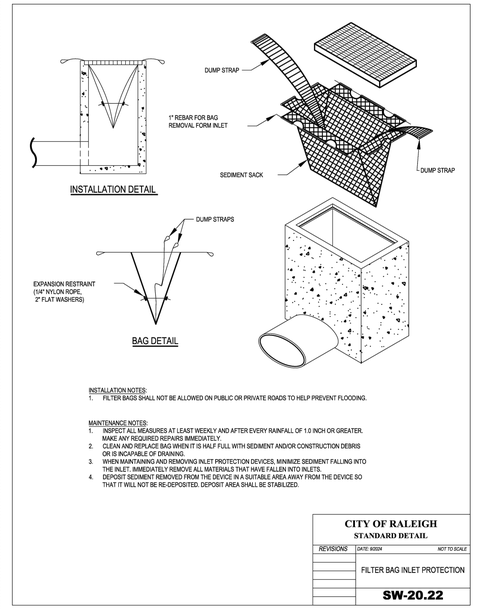
CROSS SECTION

INSTALLATION NOTES:
1. WATTLES SHALL BE FILLED WITH STRAW OR OTHER APPROVED MATERIAL.

MAINTENANCE NOTES:
1. MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK OR IMMEDIATELY AFTER EACH RAINFALL OF 1.0 INCH OR GREATER. MAKE ANY REQUIRED REPAIRS IMMEDIATELY
2. REMOVE ACCUMULATED SEDIMENT OR DEBRIS.
3. WATTLES MUST BE REPLACED IF CLOGGED OR TORN OR IF WATER DOES NOT APPEAR TO BE DRAINING THROUGH THE WATTLE.
4. REINSTALL IF DAMAGED OR DISLODGED. IF THE WATTLE FALLS INTO THE STORM DRAIN REMOVE IMMEDIATELY AND REINSTALL.
5. IF PONDING BECOMES EXCESSIVE, THE WATTLE MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2024	NOT TO SCALE
	WATTLE / INLET PROTECTION DETAIL	
	SW-20.20	

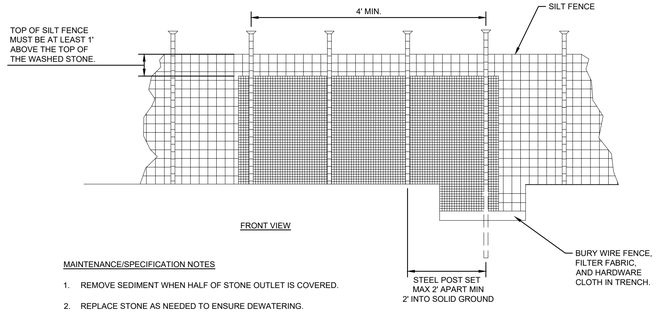


INSTALLATION NOTES:
1. FILTER BAGS SHALL NOT BE ALLOWED ON PUBLIC OR PRIVATE ROADS TO HELP PREVENT FLOODING.

MAINTENANCE NOTES:
1. INSPECT ALL MEASURES AT LEAST WEEKLY AND AFTER EVERY RAINFALL OF 1.0 INCH OR GREATER. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. CLEAN AND REPLACE BAG WHEN IT IS HALF FULL WITH SEDIMENT AND/OR CONSTRUCTION DEBRIS OR IS INCAPABLE OF DRAINING.
3. WHEN MAINTAINING AND REMOVING INLET PROTECTION DEVICES, MINIMIZE SEDIMENT FALLING INTO THE INLET. IMMEDIATELY REMOVE ALL MATERIALS THAT HAVE FALLEN INTO INLETS.
4. DEPOSIT SEDIMENT REMOVED FROM THE DEVICE IN A SUITABLE AREA AWAY FROM THE DEVICE SO THAT IT WILL NOT BE RE-DEPOSITED. DEPOSIT AREA SHALL BE STABILIZED.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2024	NOT TO SCALE
	FILTER BAG INLET PROTECTION	
	SW-20.22	



MAINTENANCE/SPECIFICATION NOTES

1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.
3. SILT FENCE OUTLETS SHOULD NOT BE LOCATED WHERE THE OUTFLOW WILL ERODE THE SOIL BELOW.

SILT FENCE OUTLET

N.T.S.

KHA DETAIL NO: 01.303.R02 (01)

MAINTENANCE NOTES:

DURING THE DEVELOPMENT OF A SITE, THE DEVELOPER SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT STORMWATER CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS ARTICLE, THE ACT OR ANY ORDER ADOPTED PURSUANT TO THIS ARTICLE OR THE ACT. AFTER SITE DEVELOPMENT, THE DEVELOPER SHALL INSTALL AND/OR MAINTAIN ALL NECESSARY PERMANENT STORMWATER CONTROL MEASURES SPECIFIED IN THE APPROVED PLAN, EXCEPT THOSE MEASURES INSTALLED WITHIN A ROAD OR STREET RIGHT-OF-WAY OR EASEMENT ACCEPTED FOR MAINTENANCE BY A GOVERNMENTAL AGENCY. CONVEYANCE OF THE PROPERTY SHALL NOT TERMINATE THE ORIGINAL DEVELOPER'S OBLIGATIONS UNDER THIS ARTICLE UNTIL SUCH TIME AS A REPLACEMENT PERMIT IS APPROVED BY THE COUNTY ENGINEER, OR DESIGNEE. THE ORIGINAL DEVELOPER SHALL INCLUDE IN THE DEED CONVEYING THE PROPERTY NOTICE OF THE EXISTENCE OF THE STORMWATER CONTROL MEASURES AND THE PURCHASER'S OBLIGATIONS TO MAINTAIN AND INSPECT THEM AND TO OBTAIN A PERMIT AND OTHERWISE COMPLY WITH THE TERMS OF THIS ARTICLE. REFER TO THE EROSION CONTROL DETAILS SHEET FOR ADDITIONAL MAINTENANCE NOTES.

THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. CONSTRUCTION ENTRANCE:
   INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.
2. SILT FENCE:
   INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. SILT FENCE OUTLET:
   INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.
4. BLOCK AND GRAVEL INLET PROTECTION:
   INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE. ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.
5. CHECK DAM:
   INSPECT DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER REACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL SEAL 049180 ENGINEER JOHN S. ALTAMURO

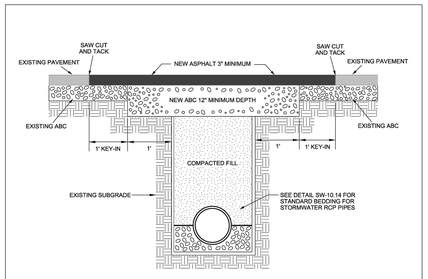
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

EROSION CONTROL DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C6.16



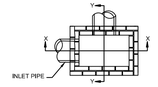
NOTES:

1. THE PAVEMENT EDGE SHALL BE DEFINED BY A STRAIGHT EDGE FORMED BY A MACHINED SAW CUT.
2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. BITUMINOUS BASE OR BINDER MAY BE SUBSTITUTED IF APPROVED BY TRANSPORTATION DIRECTOR OR DESIGNEE.
4. THE ENTIRE THICKNESS/VERTICAL EDGE OF THE CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY AND ROLLED WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH, LEVEL PATCH.

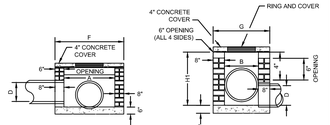
SHEET 1 OF 2

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE ISSUED	NOT TO SCALE
DATE ISSUED		
		ASPHALT PAVEMENT PATCH AND RCP PIPE BACKFILL
		T-10.05.1



PLAN



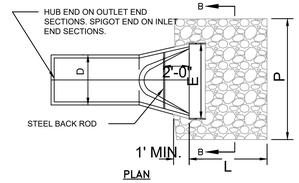
SECTION X-X SECTION Y-Y

GENERAL NOTES

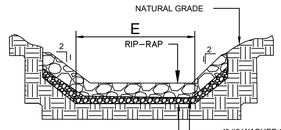
1. MORTAR JOINTS SHOULD BE BETWEEN 3/8" AND 5/8" THICK.
2. ALL CONCRETE TO BE 3600 P.S.I COMPRESSIVE STRENGTH.
3. THE 6" OPENING SHOWN MAY BE INCREASED TO 8" MAX. IF DEEMED TO BE NECESSARY BY THE ENGINEER.
4. ALL CATCH BASIN OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 1'-2" ON CENTERS.
5. CONCRETE BRICK MAY BE USED IN LIEU OF HARD COMMON CLAY BRICK.
6. PRECAST DRAINAGE STRUCTURES WILL BE PERMITTED.
7. JUMBO BRICK WILL BE PERMITTED.
8. FOR 6'-0" IN HEIGHT OR LESS USE 8" WALL, OVER 6'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0".
9. ALL EXPOSED JOINTS WILL BE CONCAVE TOOLED.
10. ALL PIPE IN STORM DRAIN STRUCTURE SHALL BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.
11. WEEP HOLES SHALL BE PLACED IN BACK WALL WITH FILTER FABRIC OR STONE ON BACK SIDE.

DIMENSIONS OF BOX AND PIPE				REINFORCING					COVER DIMENSION	
PIPE	SPAN	WIDTH	HEIGHT	BARS – X		BARS – Y		TOTAL		
D	A	B	H1 (MIN.)	NO.	LENGTH	NO.	LENGTH	LBS.	F	G
15"	3'-6"	2'-3"	2'-7"	2	3'-4"	7	4'-7"	26	4'-10"	3'-7"
18"	4'-0"	2'-8"	2'-11"	2	3'-9"	8	5'-1"	33	5'-4"	4'-0"
24"	4'-0"	2'-8"	3'-5"	2	3'-9"	8	5'-1"	33	5'-4"	4'-0"
30"	4'-0"	3'-6"	3'-11"	2	4'-7"	9	5'-1"	37	5'-4"	4'-10"
36"	4'-0"	3'-6"	4'-6"	2	4'-7"	9	5'-1"	37	5'-4"	4'-10"
42"	4'-0"	3'-6"	4'-11"	2	4'-7"	9	5'-1"	37	5'-4"	4'-10"
48"	4'-6"	4'-0"	5'-5"	2	5'-1"	10	5'-7"	45	5'-10"	5'-4"

YARD INLET
N.T.S. KHA DETAIL NO: 03.202.R01 (04)



PLAN



PROFILE (SECTION B–B)

SIZING CHART

STRUCTURE	Q–FULL (CFS)	E (FT)	L (FT)	P (FT)	D (IN)	STONE THICKNESS (IN)	STONE DIAMETER (IN)	STONE CLASS	VELOCITY (FPS)
FES-101	10.53	4.50	6	7.50	18	12	3	A	5.96
FES-104	16.04	6.00	8	10.00	24	12	3	A	5.11
FES-201	1.31	2.00	2.67	3.33	8	12	3	A	3.76
FES-301	2.28	2.00	4.00	4.67	8	22	6	B	6.53
FES-302	2.28	2.00	4.00	4.67	8	22	6	B	6.53

NOTES

1. THE LENGTHS OF THE RIP-RAP APRONS WERE DETERMINED BY USING THE NEW YORK DOT DISSIPATOR METHOD, AS OUTLINED IN SECTION 8.06 OF THE NCDENR EROSION CONTROL MANUAL.
2. RIP-RAP APRONS DESIGNED FOR FULL FLOW CAPACITY

NOTES:

1. END OF THE PIPE OR CULVERT AT THE DISCHARGE OUTLET AT A MAXIMUM SLOPE OF 2:1 AND A HEIGHT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER OR CULVERT HEIGHT.
2. THERE SHALL BE NO OVERFLOW FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR RIP-RAPPED SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING CHANNEL. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
3. THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL.
4. MAXIMUM TAPER TO RECEIVING CHANNEL 5:1.
5. ALL SUBGRADE BELOW THE STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
6. THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
7. NO BENDS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.

MAINTENANCE NOTES:
IN GENERAL, ONCE A RIPRAP INSTALLATION HAS BEEN PROPERLY DESIGNED AND INSTALLED IT REQUIRES VERY LITTLE MAINTENANCE. RIPRAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.

CONSTRUCTION SPECIFICATIONS:
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.

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

3. 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 CONNECTING 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.

4. RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.

5. THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.

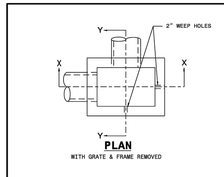
6. RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED.

7. 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 RECEIVING AREA OR SLIGHTLY BELOW IT.

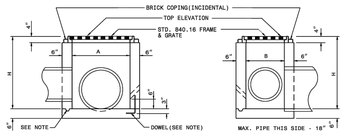
8. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.

9. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

RIP-RAP APRON AT FLARED END SECTION
N.T.S. KHA DETAIL NO: 03.205.R02 (XX)



PLAN
WITH GRATE & FRAME REMOVED



SECTION X-X SECTION Y-Y

DOWEL

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION : MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
MAX.DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.
CONSTRUCT WITH PIPE CROWNS MATCHING.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.
INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

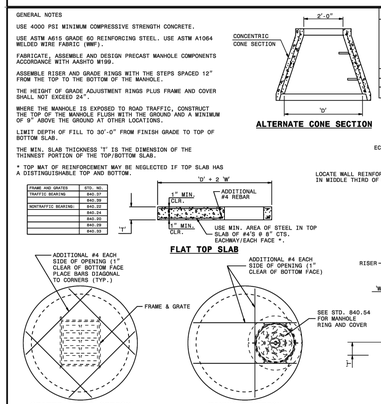
DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)								
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT					
D	A	B	H	BOTTOM SLAB	WALL PER FT. HT.	CENTRAL SECTION OF BOTTOM SLAB	C.Y.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	/	/	2'-3"	/	/	0.648	0.023	0.036
18"	/	/	2'-6"	/	/	0.703	0.033	0.049
24"	/	/	3'-0"	/	/	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

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

1-24

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

SHEET 1 OF 1
840.14



GENERAL NOTES
USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A1064 WELDED WIRE FABRIC (WWF).
FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH AASHTO M199.
ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.
THE HEIGHT OF GRADE ADJUSTMENT RINGS PLUS FRAME AND COVER SHALL NOT EXCEED 24".
WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 8" ABOVE THE GROUND AT OTHER LOCATIONS.
LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.
THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.
* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

FRAME AND GRATES	STD. NO.
TRAFFIC BEARING	840.37
	840.39
DISTRACTIVE BEARING	840.32
	840.34
	840.35
	840.36
	840.38

D	W	T	As
INTERNAL DIAMETER (FT.)	MIN. WALL THICKNESS (IN.)	MIN. TOP/BOTTOM SLAB THICKNESS (IN.)	MIN. CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)
4	4	6	0.12
5	5	8	0.15
6	6	8	0.18

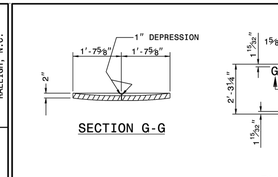
TYPICAL MANHOLE SECTION

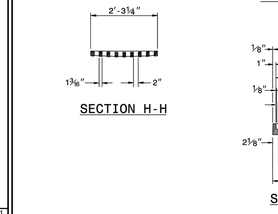
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
12" THRU 48" PIPE

SHEET 1 OF 1
840.52



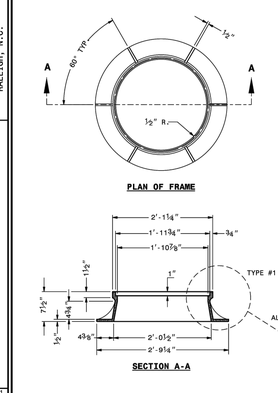


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWG.S 840.14 AND 840.15

SHEET 1 OF 1
840.16

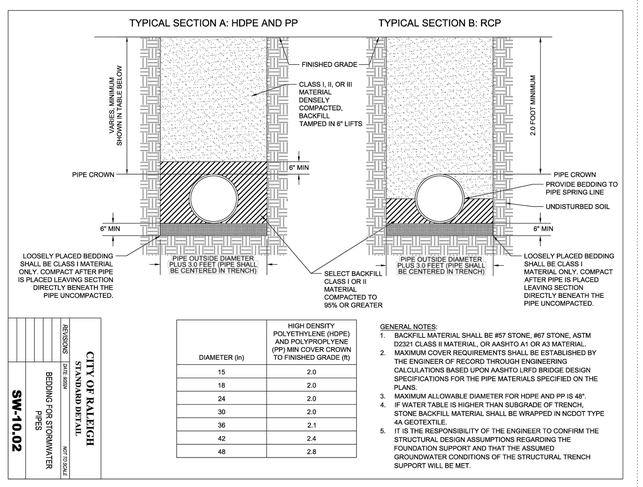


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
MANHOLE FRAME AND COVER

SHEET 1 OF 1
840.54



DIAMETER (in)	HIGH DENSITY POLYETHYLENE (HDPE) AND POLYPROPLYENE (PP) MIN COVER CROWN TO FINISHED GRADE (ft)
15	2.0
18	2.0
24	2.0
30	2.0
36	2.1
42	2.4
48	2.8

GENERAL NOTES:
1. BACKFILL MATERIAL SHALL BE #57 STONE, #67 STONE, ASTM D2321 CLASS II MATERIAL, OR AASHTO A1 OR A3 MATERIAL.
2. MAXIMUM COVER REQUIREMENTS SHALL BE ESTABLISHED BY THE ENGINEER OF RECORD THROUGH ENGINEERING CALCULATIONS BASED UPON AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THE PIPE MATERIALS SPECIFIED ON THE PLANS.
3. MAXIMUM ALLOWABLE DIAMETER FOR HDPE AND PP IS 48".
4. IF WATER TABLE IS HIGHER THAN SUBGRADE OF TRENCH, STONE BACKFILL MATERIAL SHALL BE WRAPPED IN NCDOT TYPE 4A GEOTEXTILE.
5. IT IS THE RESPONSIBILITY OF THE ENGINEER TO CONFIRM THE STRUCTURAL DESIGN ASSUMPTIONS REGARDING THE FOUNDATION SUPPORT AND THAT THE ASSUMED GROUNDWATER CONDITIONS OF THE STRUCTURAL TRENCH SUPPORT WILL BE MET.

REVISIONS	DATE ISSUED	NOT TO SCALE
		BEDDING FOR STORMWATER PIPES
		SW-10.02

CITY OF RALEIGH
STANDARD DETAIL

Know what's **below.** **Call** before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
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No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn

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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049324 JOHN S. ALTAMURO

10/01/2026

KHA PROJECT 012262021
DATE 10/01/2026
SCALE AS SHOWN
DESIGNED BY ASA
DRAWN BY MGL
CHECKED BY JDK

STORM AND UTILITIES DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C7.0

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C7.0 STORM AND UTILITIES DETAILS October 07, 2026 02:34:49pm K:\RAL_LDEV\012262021 - WakeCoPks_HistoricYatesMillPlanning Phase\P10_CAD Files\02_PlanSheets\C7.0 STORM AND UTILITIES DETAILS.dwg
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Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:C7.1 STORM AND UTILITIES DETAILS October 07, 2026 02:34:45pm K:\RAL_LDEV\012262021-WakeCoPks_HistoricYatesMillPlanning Phase\P10_CAD Files\02_PlanSheets\C7.1 STORM AND UTILITIES DETAILS.dwg
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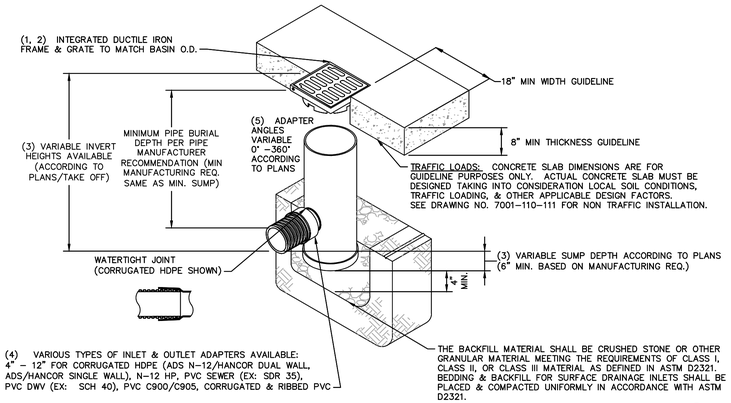
NOTES

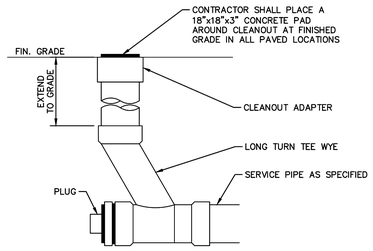
1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS.



NYLOPLAST 12" DRAIN BASIN

N.T.S.

KHA DETAIL NO: 03.203.R01 (XX)

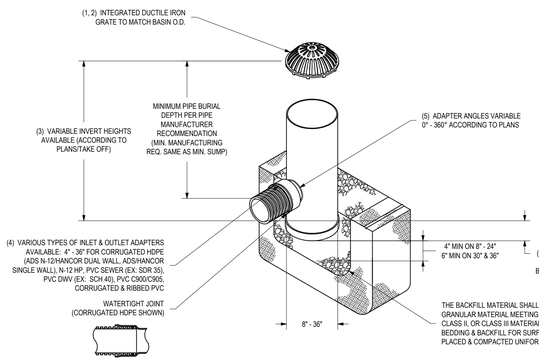


TYPICAL CLEANOUT

N.T.S.

KHA DETAIL NO: 03.201.R01 (XX)

NYLOPLAST DRAIN BASIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-005.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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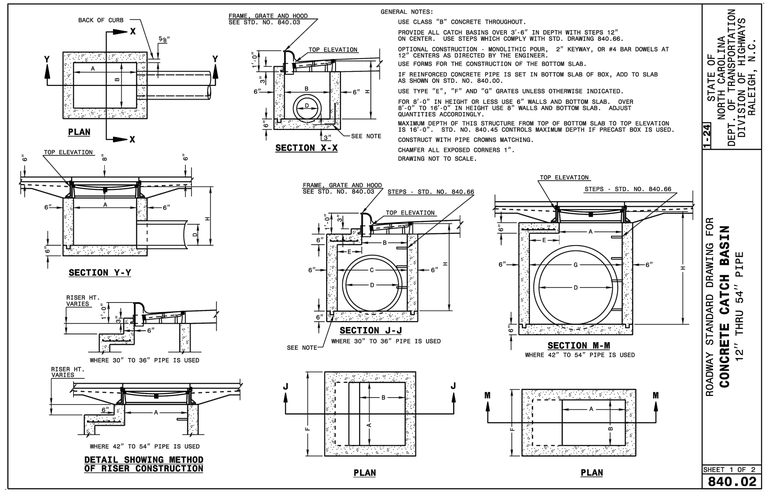
DRAWN BY	EBC	MATERIAL	
DATE	03-25-10		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-397 REV E



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

CHAMFER ALL EXPOSED CORNERS 1".

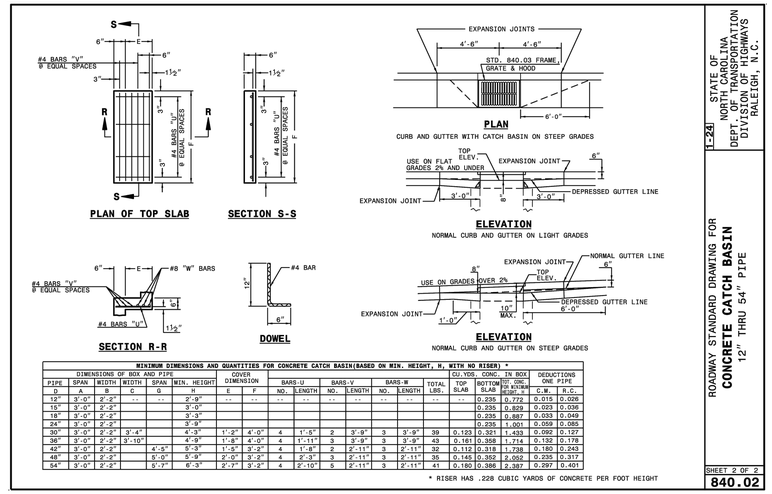
DRAWING NOT TO SCALE.

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

1-24

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

SHEET 1 OF 2
840.02



MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER) *																					
DIMENSIONS OF BOX AND PIPE						COVER DIMENSION		BARS-U		BARS-V		BARS-W			CU.YDS CONC. IN BOX		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	TOTAL LBS.	TOP SLAB	BOTTOM SLAB	(DEDUCT FOR MINIMUM HEIGHT, H)	C.W.	R.C.
D	A	B	C	G	H	E	F												
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026
15"	3'-0"	2'-2"			3'-0"											0.235	0.829	0.023	0.036
18"	3'-0"	2'-2"			3'-3"											0.235	0.887	0.033	0.049
24"	3'-0"	2'-2"			3'-9"											0.235	1.001	0.059	0.085
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-3"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.092	0.127
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"		4'-5"	5'-3"	1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.738	0.180	0.243
48"	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	0.401

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

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

1-24

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

SHEET 2 OF 2
840.02

GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

MAX.DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

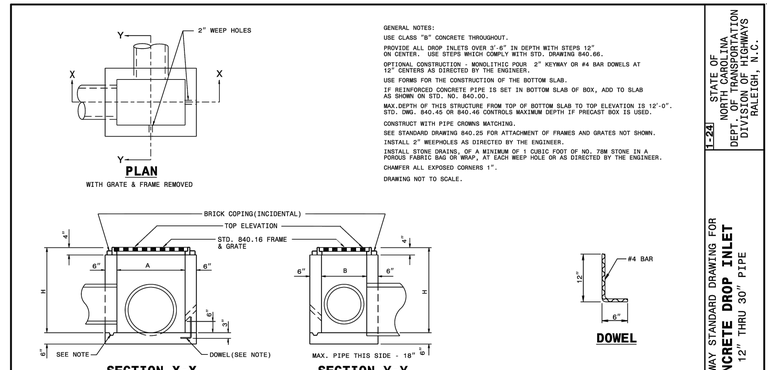
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.



DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)							
DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	(DEDUCT FOR MINIMUM HEIGHT, H)	C.M.	R.C.
D	A	B	H					
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	⁄	⁄	2'-3"		⁄	0.648	0.023	0.036
18"	⁄	⁄	2'-6"		⁄	0.703	0.033	0.049
24"	⁄	⁄	3'-0"		⁄	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

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

1-24

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

SHEET 1 OF 1
840.14

Know what's below. Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

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No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

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#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513

NORTH CAROLINA PROFESSIONAL SEAL 053553 ENGINEER JOHN S. ALTAMURO

10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	ASA
DRAWN BY	MGL
CHECKED BY	JDK

STORM AND UTILITIES DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
C7.1

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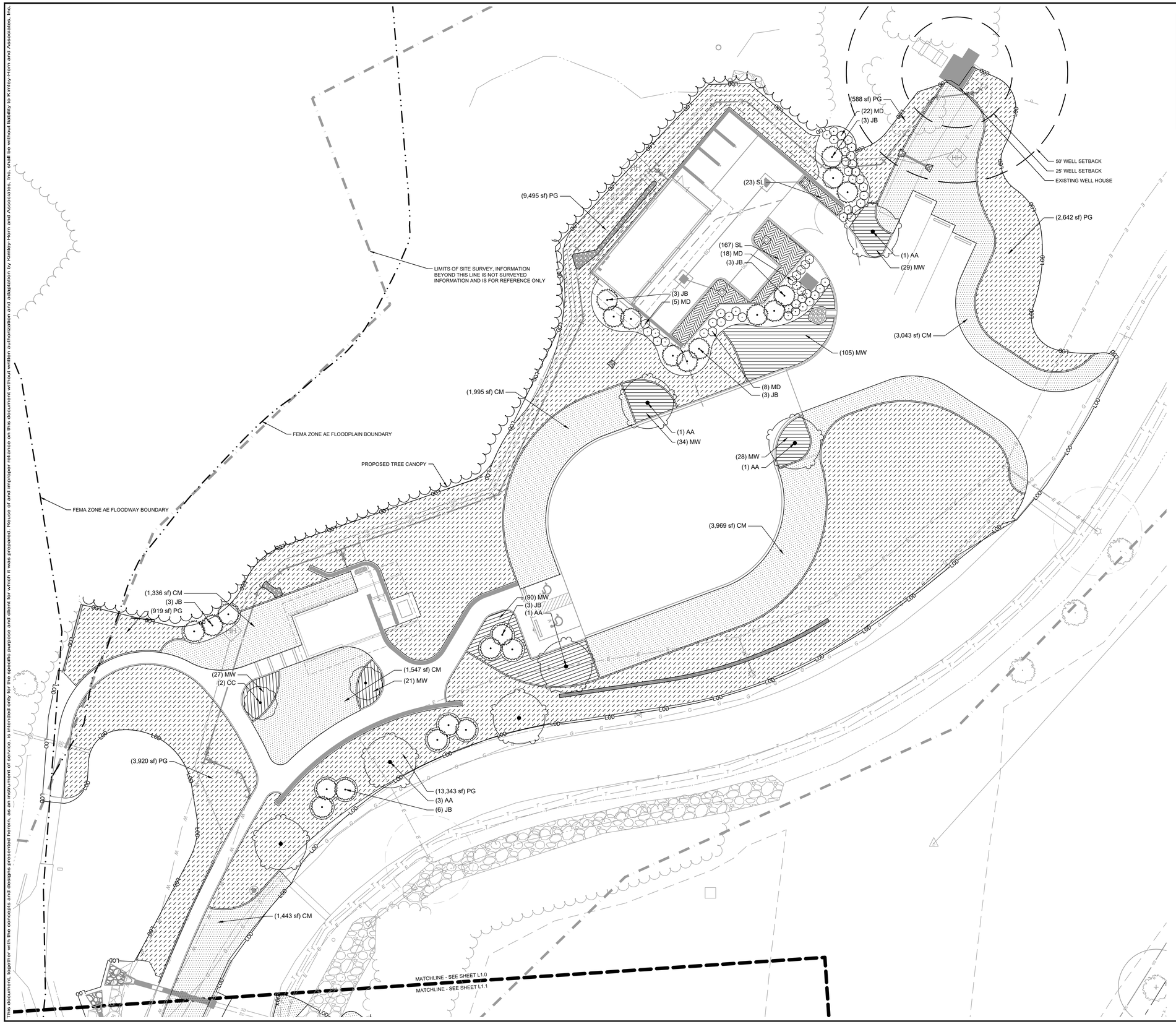

SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LIMITS OF DISTURBANCE
- EXISTING TREE
- EXISTING TREE LINE

PLANT SCHEDULE L1.0

SYMBOL	CODE	QTY	COMMON NAME
TREES			
	AA	7	AUTUMN SPLENDOR SUGAR MAPLE
	CC	2	CHEROKEE BRAVE DOGWOOD
	JB	24	BURK EASTERN REDCEDAR
SHRUBS			
	MD	53	DON'S DWARF WAX MYRTLE
GROUND COVERS			
	CM	13,333 SF	TIFTUF BERMUDAGRASS
	MW	334	WHITE CLOUD MUHLY GRASS
	PG	30,907 SF	SEE PRAIRIE MIX NOTES FOR SPECIES
	SL	190	LITTLE BLUESTEM

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
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1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT MELISSA KAY BRAND 10/01/2026

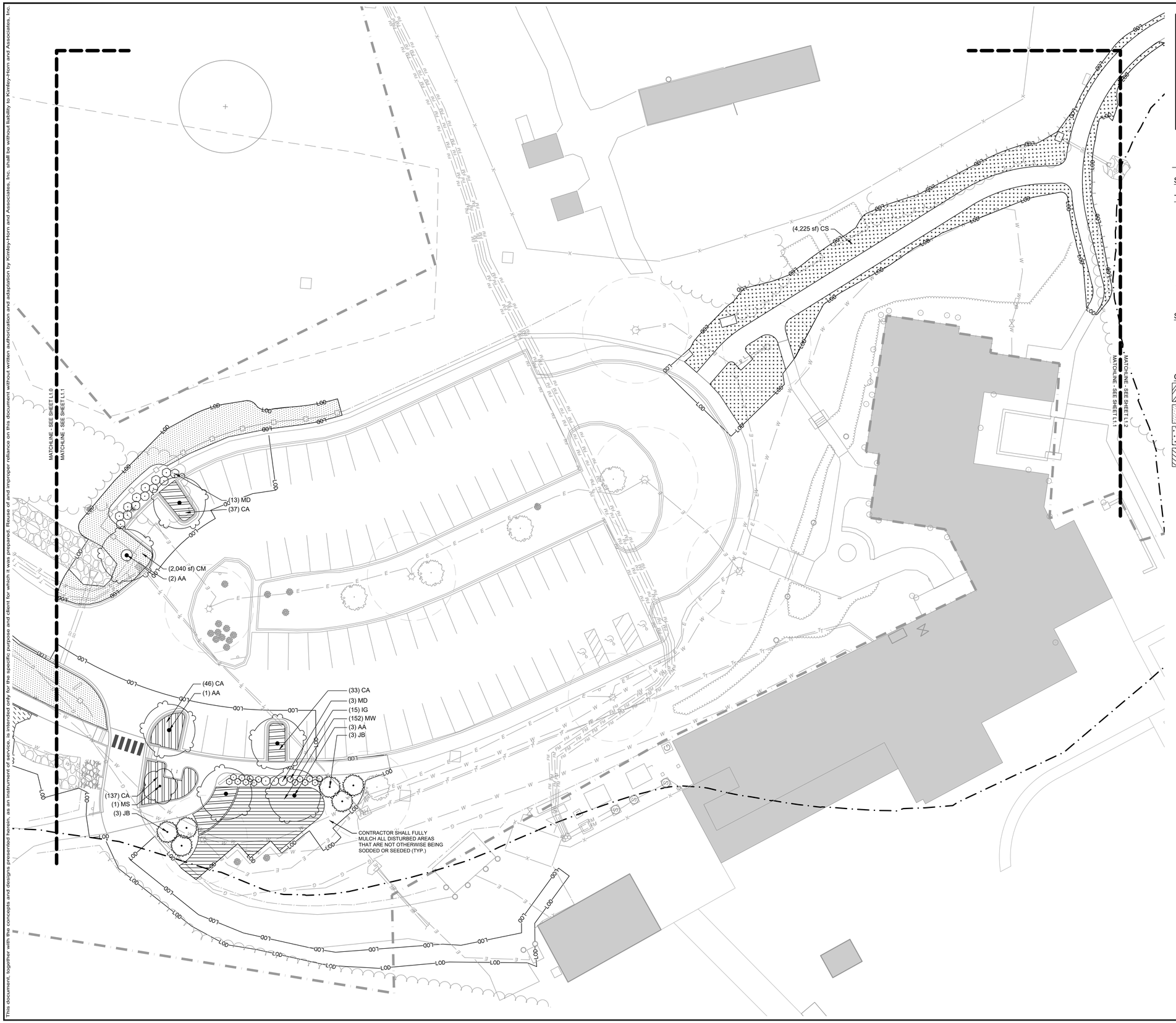
KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

LANDSCAPE PLAN ENLARGEMENT - MILL POND PAVILION

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
L1.0

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LIMITS OF DISTURBANCE
- EXISTING TREE
- EXISTING TREE LINE

PLANT SCHEDULE L1.1

SYMBOL	CODE	QTY	COMMON NAME
TREES			
	AA	6	AUTUMN SPLENDOR SUGAR MAPLE
	JB	6	BURK EASTERN REDCEDAR
	MS	1	SAUCER MAGNOLIA
SHRUBS			
	IG	15	INKBERRY HOLLY
	MD	16	DON'S DWARF WAX MYRTLE
GROUND COVERS			
	CA	253	APPALACHIAN SEDGE
	CM	2,040 SF	TIFTUF BERMUDAGRASS
	CS	4,225 SF	TRIANGLE BERMUDA GRASS SEED
	MW	152	WHITE CLOUD MUHLY GRASS

No.	REVISIONS	DATE	BY
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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1921 MELISSA KAY BRAND
10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
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LANDSCAPE PLAN ENLARGEMENT - MILL ACCESS PATH

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
L1.1

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(2,453 sf) CS

MATCHLINE - SEE SHEET L1.1

MATCHLINE - SEE SHEET L1.2

SITE LEGEND

- EXISTING PROPERTY/RIGHT-OF-WAY LINE
- FEMA ZONE AE FLOODPLAIN BOUNDARY
- FEMA ZONE AE FLOODWAY BOUNDARY
- LIMITS OF DISTURBANCE
- EXISTING TREE
- EXISTING TREE LINE

PLANT SCHEDULE L1.1

SYMBOL	CODE	QTY	COMMON NAME
TREES			
	AA	6	AUTUMN SPLENDOR SUGAR MAPLE
	JB	6	BURK EASTERN REDCEDAR
	MS	1	SAUCER MAGNOLIA
SHRUBS			
	IG	15	INKBERRY HOLLY
	MD	16	DON'S DWARF WAX MYRTLE
GROUND COVERS			
	CA	253	APPALACHIAN SEDGE
	CM	2,040 SF	TIFTUF BERMUDAGRASS
	CS	4,225 SF	TRIANGLE BERMUDA GRASS SEED
	MW	152	WHITE CLOUD MUHLY GRASS

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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10/01/2026

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LANDSCAPE PLAN ENLARGEMENT - THE MILL

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
L1.2

Plotted By: Brown, Seth Sheet Set: Yates Mill County Park Layout: L2.0 LANDSCAPE DETAILS October 07, 2025 02:35:09pm K:\RAL_LDEV\012262021_WakeCoParks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\L2.0 LANDSCAPE DETAILS.dwg
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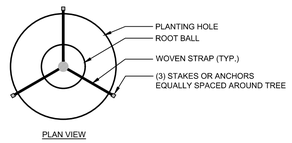
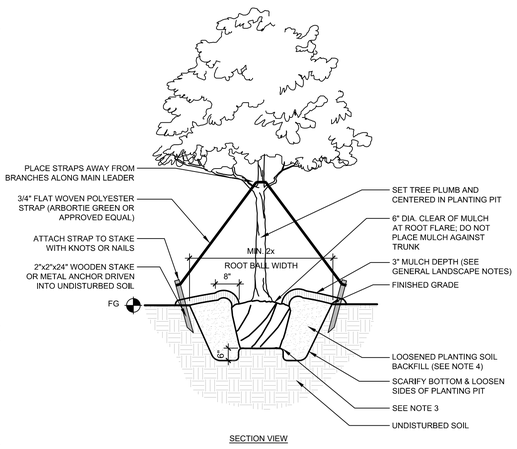


PLAN VIEW

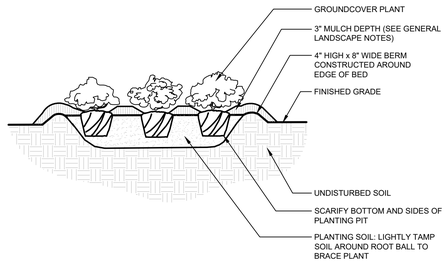


SECTION VIEW

TREE PLANTING NOTES:
1. FOR CONTAINER PLANTS, REMOVE CONTAINER & SCARIFY ROOT MASS PRIOR TO PLANTING.
2. FOR B&B PLANTS, COMPLETELY REMOVE TOP HALF OF WIRE BASKET AND BURLAP MATERIAL; REMOVE ALL TWINE, ROPE AND WIRE FROM ROOT BALL.
3. SET ROOT BALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 2-3" ABOVE FINISHED GRADE. TAMP SOIL FIRMLY AROUND BOTTOM OF ROOT BALL TO SET TREE PLUMB.
4. DIG & TURN PLANTING SOIL TO REDUCE COMPACTION. LIGHTLY TAMP SOIL AROUND ROOT BALL IN 6" LIFTS TO BRACE THE TREE. DO NOT OVER-COMPACT. MIX COMPOST INTO EACH LIFT OF BACKFILL AS RECOMMENDED IN SOIL REPORT. POUR WATER AROUND ROOT BALL TO SETTLE SOIL, AND BACKFILL AS REQUIRED TO MEET REQUIRED FINISHED GRADE.
5. A 3" HIGH x 8" WIDE BERM SHALL BE MADE AROUND THE ROOT BALL EDGE.
6. PRUNE TREES ONLY AS NEEDED TO REMOVE DEAD OR BROKEN BRANCHES.

1 L2.0 STANDARD TREE PLANTING

1/2" = 1'-0" PLAN/SECTION



GROUNDCOVER NOTES:
1. SPLIT PLANT ROOTS WITH 2-3 EQUALLY SPACED VERTICAL CUTS

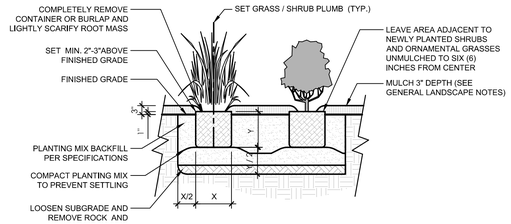
2 L2.0 GROUNDCOVER PLANTING

1/2" = 1'-0" SECTION

PLANTING BED TRENCH EDGING NOTE:
1. TRENCH EDGE SHALL BE LOCATED BETWEEN PLANTING BED AND ALL TURF OR GROUND COVER AREAS.
2. TRENCH EDGE SHALL BE CONSTRUCTED ALONG ALL HARDSCAPE AREAS FOR SIMILAR CONDITION.
3. MAINTAIN POSITIVE DRAINAGE IN ALL PLANTING BEDS.
4. SEE GENERAL LANDSCAPE NOTES FOR TYPE OF MULCH.

5 L2.0 PLANTING BED TRENCH EDGE

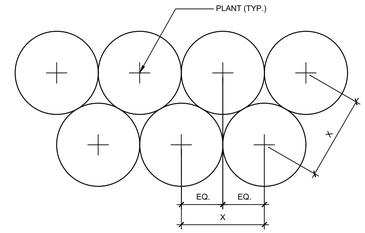
1" = 1'-0" PLAN/SECTION/AXON



SHRUB AND ORNAMENTAL GRASS PLANTING NOTES:
1. ALL PLANT MATERIAL PRICING SHALL INCLUDE MULCH, BED PREPARATION, AND STAKING.
2. ALL PLANTING BEDS SHALL RECEIVE 3" (THREE INCHES) OF MULCH.
3. PLANT MATERIAL SPACING SHOWN ON LANDSCAPE PLANS SHALL OVERRIDE TYPICAL PLANT SPACING INDICATED ON PLANT SCHEDULE. LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFYING ALL PLANT SPACING AND MAKING MINOR FIELD ADJUSTMENTS DUE TO UTILITY CONFLICTS.
4. ALL SHRUBS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MOST RECENT 'AMERICAN STANDARDS FOR NURSERY STOCK' PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (A.A.N.)
5. SOIL ANALYSIS SHALL BE OBTAINED PRIOR TO PLANTING. SOIL SHALL BE AMENDED AS RECOMMENDED BY CERTIFIED TESTING AGENCY.
6. SEE PLAN FOR SPACING.

3 L2.0 SHRUB AND ORNAMENTAL GRASS PLANTING

1/2" = 1'-0" SECTION



PLANT SPACING NOTES:
1. SEE PLANTING PLAN FOR GROUNDCOVER PLANTING AREAS.
2. PLANTS SHALL BE INSTALLED IN STRAIGHT AND PARALLEL ROWS UNLESS OTHERWISE SHOWN ON DRAWINGS.
3. SEE PLANT SCHEDULE FOR PLANT SPACING REQUIREMENTS ("X" DIMENSION IN THIS DETAIL).

4 L2.0 PLANT SPACING

1/2" = 1'-0" PLAN

811 Know what's below. Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

No.	REVISIONS	DATE	BY
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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT MELISSA KAY BRAND 1921
10/01/2026

KHA PROJECT	012262021
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LANDSCAPE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
NORTH CAROLINA
WAKE COUNTY

SHEET NUMBER
L2.0

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	CAL.	HEIGHT
TREES							
	AA	13	ACER SACCHARUM 'AUTUMN SPLENDOR'	AUTUMN SPLENDOR SUGAR MAPLE	B&B	3" MIN.	14'-16' HT.
	CC	2	CORNUS FLORIDA 'CHEROKEE BRAVE'	CHEROKEE BRAVE DOGWOOD	B&B	3" MIN.	8`-10` HT.
	JB	30	JUNIPERUS VIRGINIANA 'BURKII'	BURK EASTERN REDCEDAR	45 GAL	4" CAL.	8'-10' HT.
	MS	1	MAGNOLIA X SOULANGEANA	SAUCER MAGNOLIA	B&B	2" CAL.	

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	MIN. HEIGHT
SHRUBS						
	IG	15	ILEX GLABRA	INKBERRY HOLLY	3 GAL.	24" MIN.
	MD	69	MYRICA CERIFERA 'DON'S DWARF"	DON'S DWARF WAX MYRTLE	3 GAL.	24" MIN.

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACING
GROUND COVERS						
	CA	253	CAREX APPALACHICA	APPALACHIAN SEDGE	1 GAL.	24" o.c.
	CM	15,373 SF	CYNODON DACTYLON X TRANSVAALENSIS	TIFTUF BERMUDAGRASS	SOD	
	CS	6,678 SF	CYNODON DACTYLON X 'MOHAWK','SYDNEY','SULTAN'	TRIANGLE BERMUDA GRASS SEED	SEED	
	MW	486	MUHLENBERGIA CAPILLARIS 'WHITE CLOUD'	WHITE CLOUD MUHLY GRASS	3 GAL.	36" o.c.
	PG	30,907 SF	PRAIRIE MIX VARIETY	SEE PRAIRIE MIX NOTES FOR SPECIES	SEED	
	SL	190	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL.	24" o.c.

LANDSCAPE REQUIREMENTS

City of Raleigh - Unified Development Ordinance

UDO REQUIREMENT		LOCATION	CODE REQUIREMENTS	TOTAL QUANTITY REQUIRED	TOTAL QUANTITY PROVIDED	CODE SECTION
VEHICLE PARKING LOT	PERIMETER ISLANDS	EXPANDED VISITOR PARKING LOT	A LANDSCAPE PERIMETER ISLAND MUST BE A MINIMUM OF 5' WIDE, LANDSCAPE WITH SHRUBS INSTALLED AT A RATE OF 30 SHRUBS PER 100 LINEAR FEET. SHRUBS SHALL REACH A HEIGHT AND SPREAD OF 3' WITHIN THREE YEARS. SHRUBS SHALL BE A MINIMUM OF 18" TALL WHEN PLANTED.	89' OF IMPROVED PARKING / 100 X 30 = 27 SHRUBS REQUIRED	31 SHRUBS PROVIDED	SEC. 7.1.7.C
	TREE COVERAGE		EACH INTERIOR ISLAND (AND TERMINAL INTERIOR ISLAND) MUST INCLUDE AT LEAST 1 SHADE TREE)	4 INTERIOR ISLANDS X 1 = 4 SHADE TREES REQUIRED	4 SHADE TREES PROVIDED	SEC. 7.1.7.F

PRAIRIE MIX NOTES:

1. PRAIRIE MIX VARIETY SHALL CONSIST OF A COMBINATION OF THE SPECIES INDICATED BELOW. CONTRACTOR SHALL VERIFY THAT THE SEED MIXTURE CONTENT RATIO MATCHES THE SEED MIXTURE CONTENT RATIO USED IN OTHER AREAS ON-SITE BY PARK STAFF.
   - COMMON MILKWEED
   - BLACK-EYED SUSAN
   - SPOTTED BEEBALM
   - JOE-PYE WEED
   - PURPLE CONEFLOWER
   - BIG BLUESTEM
   - SWITCHGRASS
   - YARROW
   - BLUE FALSE INDIGO
   - TALL COREOPSIS

GENERAL LANDSCAPE NOTES:

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
3. ALL TREES MUST HAVE A STRAIGHT TRUNK AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
6. ALL TREES LOCATED WITHIN VEHICLE SIGHT TRIANGLES SHALL BE BRANCHED MIN. 8' (MEASURED FROM ADJACENT PROJECTED CURB LINE ELEVATION) PER ANSI Z60.1 STANDARDS FOR HEIGHT OF BRANCHING - STREET TREES.
7. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED. ANY EXISTING LANDSCAPE AREAS THAT ARE DISTURBED MUST BE MULCHED TO MATCH EXISTING MULCH FOUND WITHIN LANDSCAPE AREA. MULCH TO BE THREE(3) INCHES OF DOUBLE SHREDDED HARDWOOD DESIGNER MULCH IN DARK BROWN.
8. LOCATION OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASE UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC., WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS WITH FINAL FINISHED GRADE. ALL UTILITIES SHALL SIT FLUSH WITH FINISHED GRADES (BOTH PAVED AND LANDSCAPED SURFACES).
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THE LANDSCAPE PLANS BEFORE PRICING THE WORK. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO ORDERING AND PLANTING.
10. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, WEEDING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL SUBSTANTIAL COMPLETION.
11. THE CONTRACTOR SHALL COMPLETELY WARRANTY ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE WARRANTEE PERIOD.
12. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT A MINIMUM OF ONE (1) WEEK IN ADVANCE TO SCHEDULE STAKING.
13. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE MEETING ALL PLANT SCHEDULE SPECIFICATIONS.
14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
15. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
16. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
17. THE TOP OF ALL ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GRADE AND GROWING CONDITIONS.
18. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TREES AND SHRUBS THAT WILL MEET BOTH MINIMUM SIZE AND SPACING FOR TREE AND THE WAKE COUNTY UDO. FAILURE TO INSTALL PLANT MATERIAL PER THIS PLAN WILL JEOPARDIZE ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTIONS OF PLANT MATERIAL.
20. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES & ORDINANCES REGARDING LANDSCAPING. GENERAL CONTRACTOR IS TO CLEAN THE ENTIRE SITE OF ALL CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
21. THE CONTRACTOR SHALL INSTALL PERMEABLE NON-WOVEN GE0TEXTILE UNDER PLANTING BED MULCH IN ALL LANDSCAPE BEDS TO PREVENT WEED GROWTH.

SOIL AMENDMENT NOTES:

1. SOIL INSTRUCTIONS FOR ALL NEW PLANTING AREAS (INCLUDING SEED AREAS) AT PREVIOUSLY PAVED LOCATIONS: REMOVE ALL PAVEMENT, GRAVEL SUB-BASE, AND CONSTRUCTION DEBRIS. FOR ALL AREAS TO RECEIVE TREES, SHRUBS, GROUNDCOVERS, AND / OR ORNAMENTAL GRASSES; THE CONTRACTOR SHALL REMOVE EXISTING SOIL AND ADD 18" OF NEW TOPSOIL TO MEET THE PLANTING MIX STANDARDS. TOPSOIL SHALL BE TESTED BY A CERTIFIED SOIL TESTING AGENCY AND SHALL BE AMENDED PER THE RECOMMENDATIONS FOUND WITHIN THE SOILS ANALYSIS. FOR ALL AREAS TO RECEIVE SOD AND / OR SEED; THE CONTRACTOR SHALL REMOVE EXISTING SOIL AND ADD 3" OF NEW TOPSOIL TO MEET THE PLANTING MIX STANDARDS. TOPSOIL SHALL BE TESTED BY A CERTIFIED SOIL TESTING AGENCY AND SHALL BE AMENDED PER THE RECOMMENDATIONS FOUND WITHIN THE SOILS ANALYSIS.
2. SOIL INSTRUCTIONS FOR ALL EXISTING PLANTING AREAS (NOT PREVIOUSLY PAVED LOCATIONS): THE CONTRACTOR SHALL TAKE A MINIMUM OF FOUR (4) SAMPLES THROUGHOUT THE PROJECT SITE AND SHALL SUBMIT THEM TO BE TESTED TO A CERTIFIED SOIL TESTING AGENCY. THE CONTRACTOR SHALL AMEND ALL EXISTING SOIL WITHIN EXISTING DISTURBED PLANTING AREAS PER THE RECOMMENDATIONS FOUND WITHIN THE SOILS ANALYSIS. AREAS TO RECEIVE TREES, SHRUBS, GROUNDCOVERS, AND / OR ORNAMENTAL GRASSES SHALL BE AMENDED TO A DEPTH OF 6" MINIMUM. AREAS TO RECEIVE SOD SHALL BE AMENDED TO A DEPTH OF 3" MINIMUM.

PERMANENT GRASS SEED NOTES:

1. BERMUDA GRASS SEED MIX SHALL BE PENNINGTON BERMUDA TRIANGLE BLENDED BERMUDA SEED BY PENNINGTON SEED INC.
2. COMPLETE GRADING BEFORE PREPARING SEEDBEDS.
3. IF SOILS BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW.
4. SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 88LBS PER ACRE.
5. CONTRACTOR SHALL ADD 25LBS PER ACRE OF ANNUAL RYE GRASS AS NURSE CROP UNTIL PERMANENT ESTABLISHMENT OF BERMUDA GRASS.
6. CONTRACTOR SHALL FOLLOW ALL PRODUCT, EXECUTION, AND MAINTENANCE SPECIFICATIONS PROVIDED BY THE MANUFACTURER.
7. GRASS SEED SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE WARRANTY PERIOD.

7.1. LATE WINTER THROUGH SUMMER: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

7.2. FALL: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50LB PER ACRE OF NITROGEN IN MARCH.

8. SEEDBED PREP:

8.1. TILL OR DISK THE PREPARED AREAS TO BE SEEDED TO A MINIMUM DEPTH OF FOUR INCHES.

8.2. REMOVE STONES LARGER THAN THREE INCHES ON ANY SIDE, STICKS, ROOTS, AND OTHER EXTRANEOUS MATERIALS THAT SURFACE.

8.3. IF NOT INCORPORATED DURING THE SOIL PREPARATION PROCESS, ADD PH MODIFIER AND FERTILIZERS AT THE RATE SPECIFIED IN THE SOIL TEST REPORT.

8.4. RE-COMPACT THE AREA UTILIZING A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE A SMOOTH EVEN SOIL SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE.

8.5. EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1 2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER MULCH.

Know what's below. Call before you dig.

FLOODPLAIN NOTE:
PER FEMA FIRM MAP #3720079100K, DATED 7/19/2022, THIS SITE IS A SPECIAL FLOOD HAZARD AREA (ZONE AE) AND ZONE X.

GEOTECH NOTE:
GEOTECHNICAL BORING INFORMATION WAS PROVIDED WITHIN A PRELIMINARY GEOTECHNICAL ENGINEERING REPORT DATED 12/12/2025 AND PREPARED BY TERRACON, 3150 SPRING FOREST ROAD, SUITE 100, RALEIGH, NC, PHONE: 919-873-2211.

SURVEY NOTE:
EXISTING TOPOGRAPHICAL INFORMATION IS BASED ON AN ALTA SURVEY OBTAINED ON 11/04/2025 BY MCKIM & CREED, 4300 EDWARDS MILL ROAD, SUITE 200, RALEIGH, NC, PHONE: (919) 233-8091. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION, DEPICTED OR NOT, PRIOR TO CONSTRUCTION AND REPORT POTENTIAL CONFLICTS TO OWNER AND ENGINEER.

No.	REVISIONS	DATE	BY
	ISSUE FOR BID PLANS	10/01/2026	SDB

Kimley»Horn
© 2026 KIMLEY-HORN AND ASSOCIATES, INC.
1001 WINSTEAD DRIVE, SUITE 500, CARY, NC 27513
#F-0102 WWW.KIMLEY-HORN.COM PHONE: 984-275-4874 FAX: 919-677-2050

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT MELISSA KAY BRAND 10/01/2026

KHA PROJECT	012262021
DATE	10/01/2026
SCALE	AS SHOWN
DESIGNED BY	MKB
DRAWN BY	SDB
CHECKED BY	JDK

LANDSCAPE DETAILS

HISTORIC YATES MILL COUNTY PARK
PREPARED FOR
WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION
WAKE COUNTY NORTH CAROLINA

SHEET NUMBER
L2.1

Plotted By:Brown, Seth Sheet Set:Yates Mill County Park Layout:L2.1 LANDSCAPE DETAILS October 07, 2026 02:35:12pm K:\RAL_LDEV\012262021_WakeCoPks_HistoricYatesMill\Planning Phase\P10_CAD Files\02_PlanSheets\L2.0 LANDSCAPE DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

10 01 2026

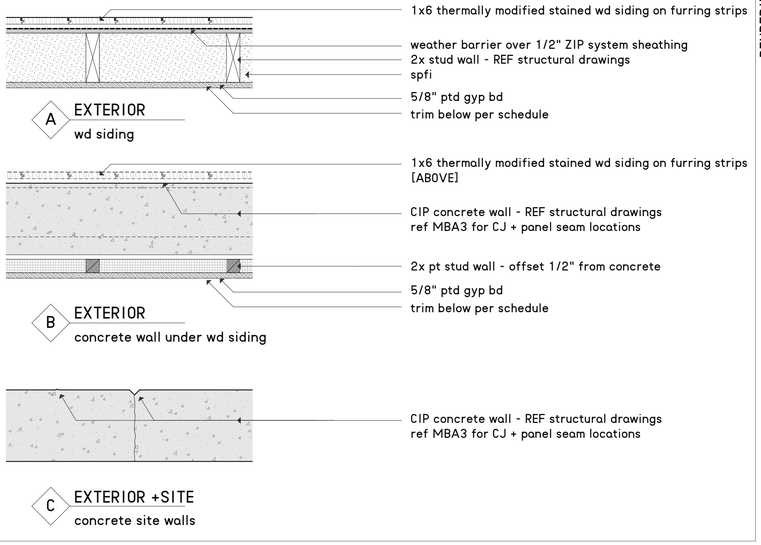
HISTORIC YATES MILL COUNTY PARK - EQUIPMENT STORAGE BUILDING

Wake County Facilities Design & Construction

4610 Lake Wheeler Road
Raleigh, NC 27603

100% CONSTRUCTION DOCUMENTS

PARTITION SCHEDULE



RENDERING

VICINITY MAP

DRAWING LIST

SHEET #	SHEET NAME
MB.A0.0	COVER SHEET
MB.A0.1	APPENDIX B
MB.A0.2	APPENDIX B CONT'D + LIFE SAFETY PLAN
MB.A2.0	FOUNDATION PLAN + MISCELLANEOUS DETAILS
MB.A2.1	FLOOR PLAN + SCHEDULES
MB.A2.2	REFLECTED CEILING + SYSTEMS LAYOUT PLAN + ROOF PLAN
MB.A3.1	BUILDING ELEVATIONS
MB.A4.1	BUILDING SECTIONS
MB.A5.1	SECTION DETAILS
MB.A5.2	SECTION + PLAN DETAILS
MB.S1.0	GENERAL STRUCTURAL NOTES
MB.S1.1	FOUNDATION PLAN
MB.S1.2	ROOF FRAMING PLAN
MB.S2.1	STRUCTURAL DETAILS
MB.P1.0	PLUMBING FLOOR PLAN - MAINTENANCE BUILDING - NEW WORK
MB.M1.0	MECHANICAL FLOOR PLAN - MAINTENANCE BUILDING - NEW WORK
MB.E0.1	ELECTRICAL SCHEDULES
MB.E0.2	ELECTRICAL DETAILS
MB.E1.0	ELECTRICAL FLOOR PLAN - MAINTENANCE BUILDING - NEW WORK
MB.E2.0	ELECTRICAL SITE PLAN
MB.E3.0	ELECTRICAL SITE PLAN
MB.E3.1	ELECTRICAL DETAILS

PROJECT CONTACT

PROPERTY OWNER:
WAKE COUNTY FACILITIES DESIGN AND CONSTRUCTION
336 FAYETTEVILLE ST.
RALEIGH, NC 27601
CONTACT: ERIC STAEHLE
PHONE: 919 418 0603
EMAIL: ERIC.STAEHLE@WAKE.GOV

PRIME/LANDSCAPE/CIVIL:
KIMLEY-HORN & ASSOCIATES, INC.
421 FAYETTVILLE ST., SUITE 600
RALEIGH, NC 27610
LANDSCAPE CONTACT: NICK KUHN, PLA
PHONE: 314 706 3104
EMAIL: NICK.KUHN@KIMLEY-HORN.COM
CIVIL CONTACT: JOHN KUZENSKI, PE
PHONE: 919 653 2990
EMAIL: JOHN.KUZENSKI@KIMLEY-HORN.COM

ARCHITECT:
IN SITU STUDIO
704 N. PERSON ST.
RALEIGH, NC 27604
CONTACT: ZACH HOFFMAN AIA
PHONE: 704 301 4750
EMAIL: ZACH@INSITUSTUDIO.US

PME + F
HDM ASSOCIATES, INC.
106 TARHEEL COURT
ELIZABETH CITY, NC 27909
CONTACT: RICHARD T. THORNE
PHONE: 252 698 3003
EMAIL: HDMA@MINDSPRING.COM

STRUCTURAL ENGINEER + COST ESTIMATION:
LYSAGHT & ASSOCIATES, P.A. STRUCTURAL ENGINEERS
120 ST. MARY'S ST.
RALEIGH, NC 27605
CONTACT: MARK BLANKINSHIP
PHONE: 919 833 0495
EMAIL: MARKB@LYSAGHTASSOCIATES.COM

ABBREVIATIONS

@	at
AFF	above finish floor
ALUM	aluminum
BO	bottom of
CIP	cast-in-place
CL	centerline
CJ	control/construction joint
CPT	common path of travel
EQ	equal
FFE	finished floor elevation
FEC	fire extinguisher + cabinet
FIN	finish
FO	face of
GA	gauge
GALV	galvanized
LOD	limits of disturbance
MAX	maximum
MED	maximum egress distance
MIN	minimum
NIC	not in contract
NTS	not to scale
OC	on center
PTD	painted
REF	reference
REV	reverse
SIM	similar
SF	square feet
SS	stainless steel
TO	top of
TPF-SF	tree protection fence silt
TYP	typical
UON	unless otherwise noted
VIF	verify in field

MATERIAL SPECIFICATIONS

- 313 GRAVEL
- 330 CAST-IN-PLACE CONCRETE
- 512 STRUCTURAL STEEL
- 550 METAL FABRICATION
- 610 ROUGH FRAMING
- 618 GLULAM CONSTRUCTION
- 615 INTERIOR FINISH CARPENTRY
- 620 EXTERIOR FINISH CARPENTRY
- 742 STANDING SEAM METAL ROOF
- 746 FIBER CEMENT SIDING
- 762 METAL TRIM + FLASHING
- 771 GUTTER + RAIN CHAIN
- 833 COILING DOOR
- 841 ALUMINUM STOREFRONT
- 929 GYPSUM BOARD
- 929.1 GYPSUM BOARD - TYPE X
- 964 RUBBER BASE
- 22 PLUMBING FIXTURES
- 26 ELECTRICAL FIXTURES
- 26 FIRE ALARM FIXTURES
- 28 HVAC FIXTURES

SYMBOL LEGEND

- # MATERIAL TAG
- # DOOR LABEL
- LETTER WINDOW LABEL
- LETTER OR # COLUMN LINE
- A PARTITION TYPE
- # / SHEET # DETAIL TAG
- # / SHEET # SECTION TAG
- # / SHEET # ELEVATION TAG
- # / SHEET # INTERIOR ELEVATION TAG

06 03 26

ZACHARY SCOTT HOFFMAN
REGISTERED ARCHITECT
14288
NORTH CAROLINA
RALEIGH, N.C.

in situ studio
704 N PERSON STREET
RALEIGH NC 27604
www.insitustudio.us

Consultants

Landscape/Civil	KIMLEY-HORN & ASSOCIATES, INC.
Structural	LYSAGHT & ASSOCIATES
PME/FIRE	HDM ASSOCIATES, INC.
Cost Estimation	LYSAGHT & ASSOCIATES

IFB

10 01 26
zh
scale as noted

HISTORIC YATES MILL COUNTY PARK
4610 LAKE WHEELER RD
RALEIGH, NC 27603

coversheet

MB.A0.0

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **Historic Yates Mill County Park - Equipment Storage Building**
Address: **4610 Lake Wheeler Road** Zip Code **27603**
Owner/Authorized Agent: **Zach Hoffman** Phone # (**704**) **301** - **4750** E-Mail **zach@insitustudio.us**
Owned By: ☐ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City **Raleigh** ☒ County **Wake** ☐ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	**in situ studio**	**Zach Hoffman, AIA**		(**704**) **301**	**4750**
Civil	**Kimley-Horn**	**John Kuzenski, PE**		(**919**) **653**	**2990**
Electrical	**HDM Associates**	**Richard Thorne, PE**		(**252**) **698**	**3003**
Fire Alarm	**-**	**-**		( )	
Plumbing	**HDM Associates**	**Richard Thorne, PE**		(**252**) **698**	**3003**
Mechanical	**-**	**-**		( )	
Sprinkler-Standpipe	**-**	**-**		( )	
Structural	**Lysaght + Assoc.**	**Mark Blankenship, PE**		(**919**) **414**	**0188**
Retaining Walls >5' High	**-**	**-**		( )	
Other- **LA**	**Kimley-Horn**	**Nick Kuhn, PLA**		(**314**) **706**	**3104**

("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: ☒ New Construction ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core
☐ Phased Construction – Shell/Core
☐ Renovation

2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use
CONSTRUCTED:(date) _____ **ORIGINAL OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RISK CATEGORY (table 1604.5) **Current:** ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) **Flood Hazard Area:** ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ.FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	**0**	**1,140**	**0**	**1,140**
Basement				
TOTAL				**1,140**

ALLOWABLE AREA

Primary Occupancy Classification: SELECT ONE
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☒ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): **NA**
Incidental Uses (Table 509)**:** **NA**
Special Uses (Chapter 4 – List Code Sections) **NA**
Special Provisions: (Chapter 5 – List Code Sections): **NA**
Mixed Occupancy: ☒ No ☐ Yes Separation: **NA** Hr. Exception: **NA**
☒ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) -
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	**main level**	**2,635**	**9,000**	**6,750**	**15,750**

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = **230** (F)
b. Total Building Perimeter = **230** (P)
c. Ratio (F/P) = **1** (F/P)
d. W = Minimum width of public way = **>30** (W)
e. Percent of frontage increase I_f = 100 [F/P - 0.25] x W/30 = **75** (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	**40**	**22**	**-**
Building Height in Stories (Table 504.4)	**1**	**1**	**-**

[1] Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1
[3] The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	**>30**	**0**					
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Column Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PERPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30 or greater	**UP, NS**	**unlimited**	**12 %**

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial _____
Carbon Monoxide Detection: ☐ No ☒ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: **MB.A0.2**

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distances (1017)
☒ Common path of travel distances (1006.2.1 & 2006.3.2(1))
☒ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
☒ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☒ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS	ACCESSIBLE UNITS	TYPE A UNITS	TYPE A UNITS	TYPE B UNITS	TYPE B UNITS	TOTAL ACCESSIBLE UNITS

N/A

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH	TOTAL # ACCESSIBLE PROVIDED
TOTAL					

REF LA/C DRAWINGS

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	-							→		→
	NEW	**0**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	**0**
	REQ'D	-							→	**0**	**0**

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)
N/A

06 03 26
ZACHARY SCOTT HOFFMAN
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HDM ASSOCIATES, INC.
LYSAGHT & ASSOCIATES
Consultants
Landscape/Civil
Structural
PME/FIRE
Cost Estimation

IFB
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scale as noted
HISTORIC YATES MILL COUNTY PARK
4610 LAKE WHEELER RD
RALEIGH, NC 27603
appendix b
MB.A0.1

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable) **N/A**

Exempt Building: ☒ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☐ 3A ☒ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: **5/8" GYP, SPFI, 3/4" OSB, UDL, 22 ga. Metal**
U-Value of total assembly: **1/(0.56+38.00+0.89)= 0.022**
R-Value of insulation: **38**
Skylights in each assembly: **-**
U-Value of skylight: **-**
total square footage of skylights in each assembly: **0**

Exterior Walls (each assembly)
Description of assembly: **5/8" GYP, 7 -1/4" SPFI, 1/2" OSB, 22 ga. Metal**
U-Value of total assembly: **1(0.56+25.375+0.59+0.89) = 0.036**
R-Value of insulation: **27.42**
Openings (windows or doors with glazing)
U-Value of assembly: **0.29**
Solar heat gain coefficient: **0.27**
projection factor: **Between 0.33 and 0.67**
Door R-Values: **0.59**

Walls below grade (each assembly)
Description of assembly: **-**
U-Value of total assembly: **-**
R-Value of insulation: **-**

Floors over unconditioned space (each assembly)
Description of assembly: **-**
U-Value of total assembly: **-**
R-Value of insulation: **-**

Floors slab on grade
Description of assembly: **4" Concrete Slab, 2" Rigid Polystyrene**
U-Value of total assembly: **1(0.68+10) = 0.094**
R-Value of insulation: **10**
Horizontal/vertical requirement: **24" of 2" Rigid Polystyrene**
slab heated: **No**

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
total exterior wattage specified vs. allowed

REF ELECTRICAL DRAWINGS

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_s) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7) ASCE 7-10
Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_s 15.8 %g S_1 7.8 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data

Basic structural system
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☒ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ☒ Simplified ☐ Equavalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 3,000 psf Terracon Report - Project No. 70255183 dated 12/12/25
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

REF MECHANICAL DRAWINGS

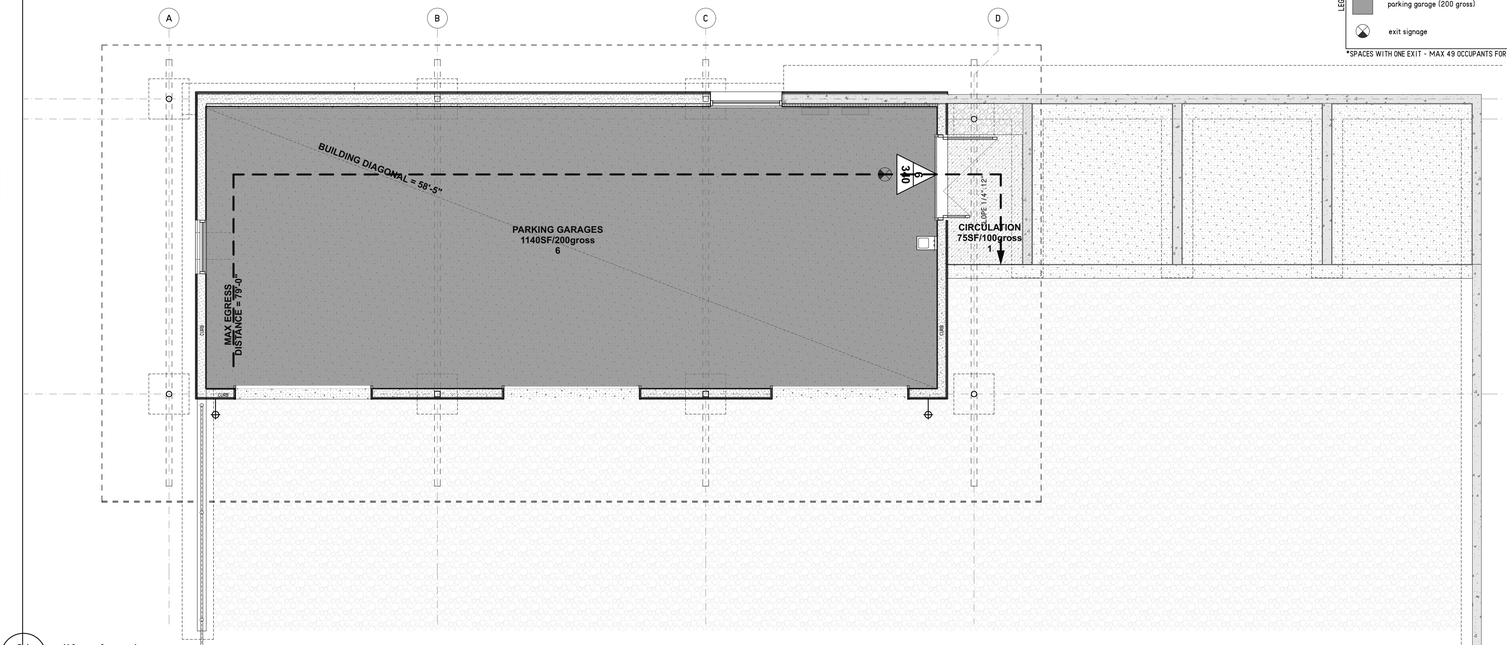
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

OCCUPANCY				
INTERIOR	S-2 LOW HAZARD STORAGE	TYPE V-B CONSTRUCTION		1140 SF
1113 GARAGE		MAX SIZE - NS - 13500SF (506.2)		
TABLE 602 - FIRE SEPARATION > 30' - 0 HOURS FOR EXTERIOR WALLS				
1140 SF	parking garage	200 gross	6 occupants	
138 SF	circulation	100 gross	1 occupants	
		TOTAL	7 occupants	

LEGEND
parking garage (200 gross)
circulation (100 gross)
exit signage

*SPACES WITH ONE EXIT - MAX 49 OCCUPANTS FOR FIRST STORY ASSEMBLY OCC.



01 life safety plan
MB.A0.2 SCALE: 3/16" = 1'-0"

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Consultants
Landscape/Civil
Structural
PME/FIRE
Cost Estimation

IFB

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zh
scale as noted

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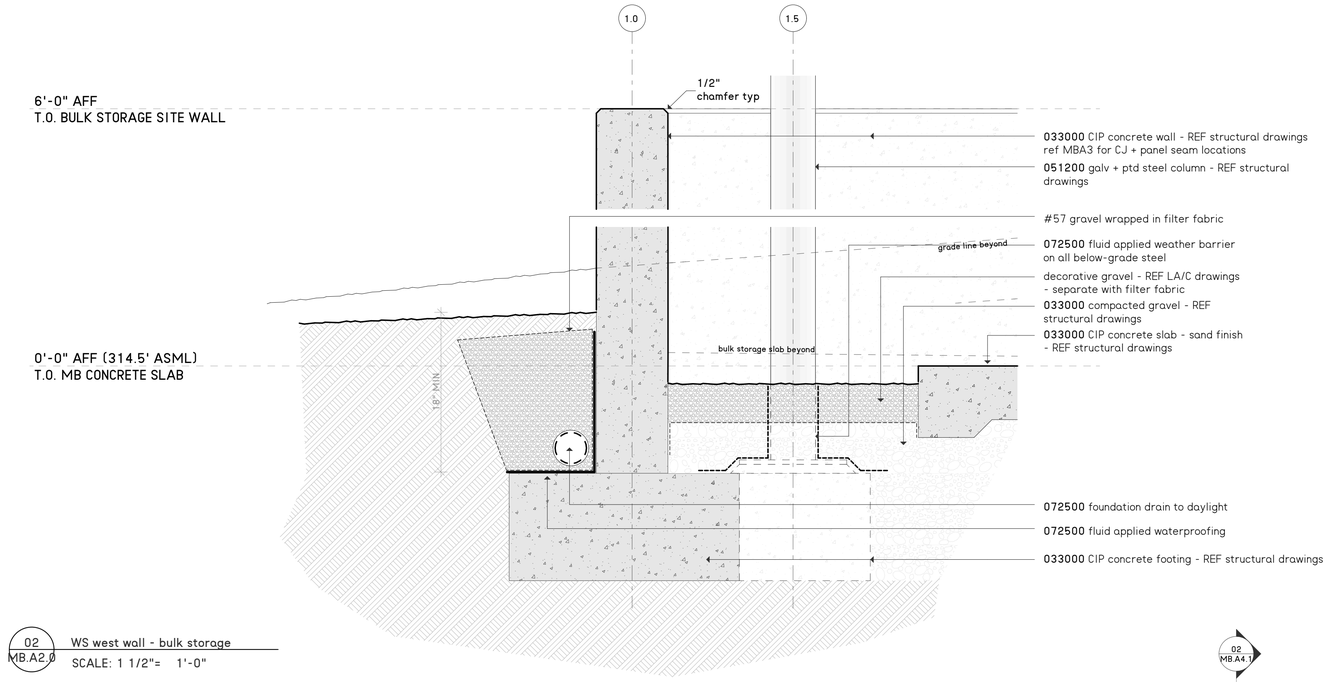
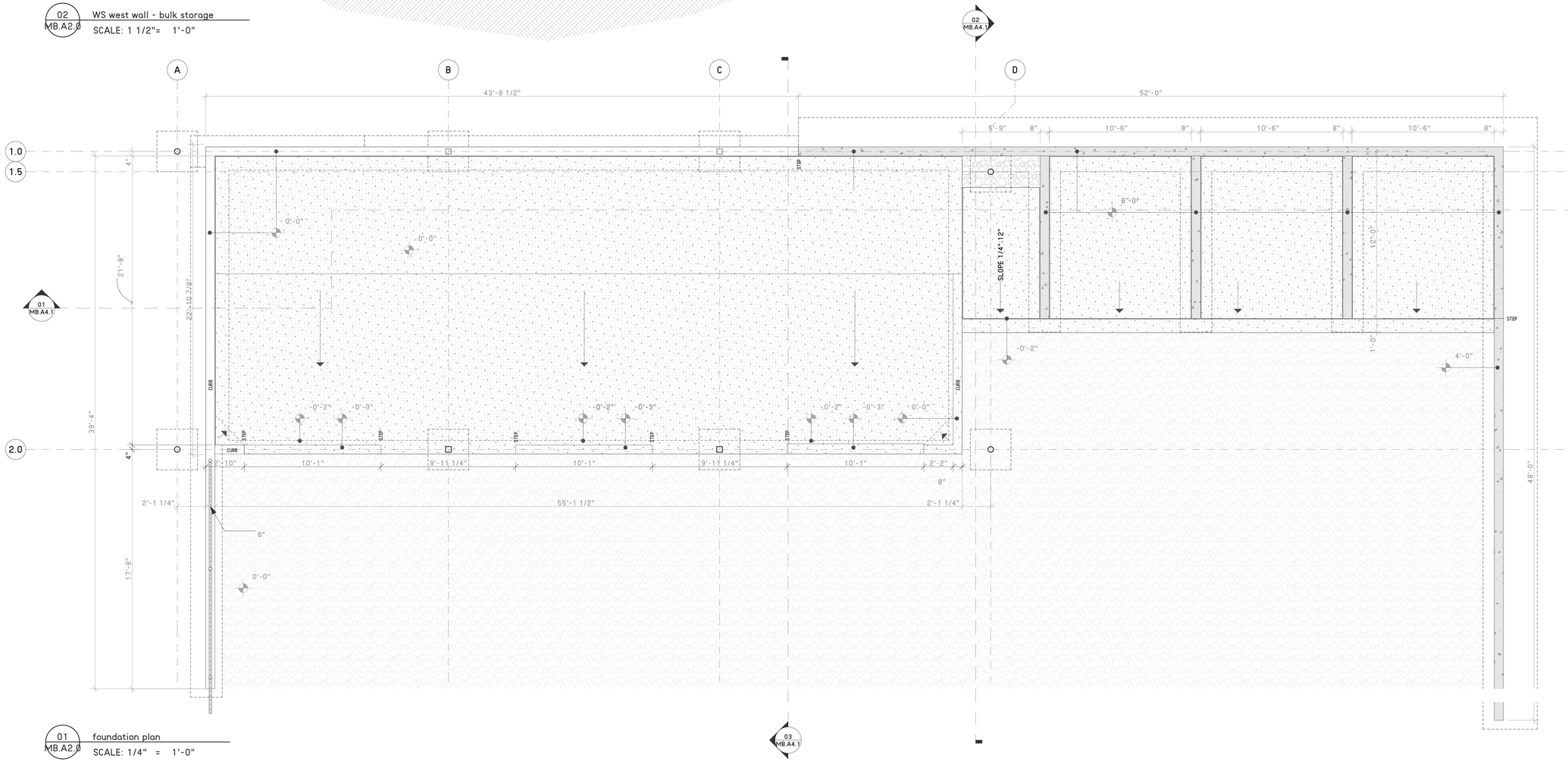
appendix b cont.
+ life safety plan

MB.A0.2



02 MB.A2.0 WS west wall - bulk storage
SCALE: 1 1/2"= 1'-0"



01 MB.A2.0 foundation plan
SCALE: 1/4" = 1'-0"

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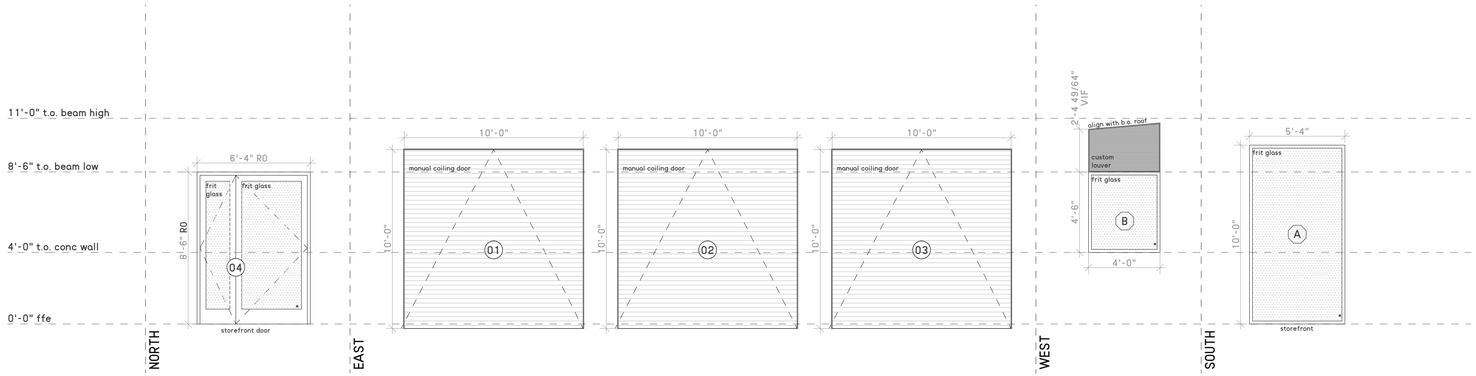
foundation plan +
misc. details

MB.A2.0



02 MB.A2.1 window schedule
SCALE: 1/4" = 1'-0"

* SAFETY GLASS PER IBC
ALL DIMS TO ROUGH OPENING UNLESS OTHERWISE NOTED

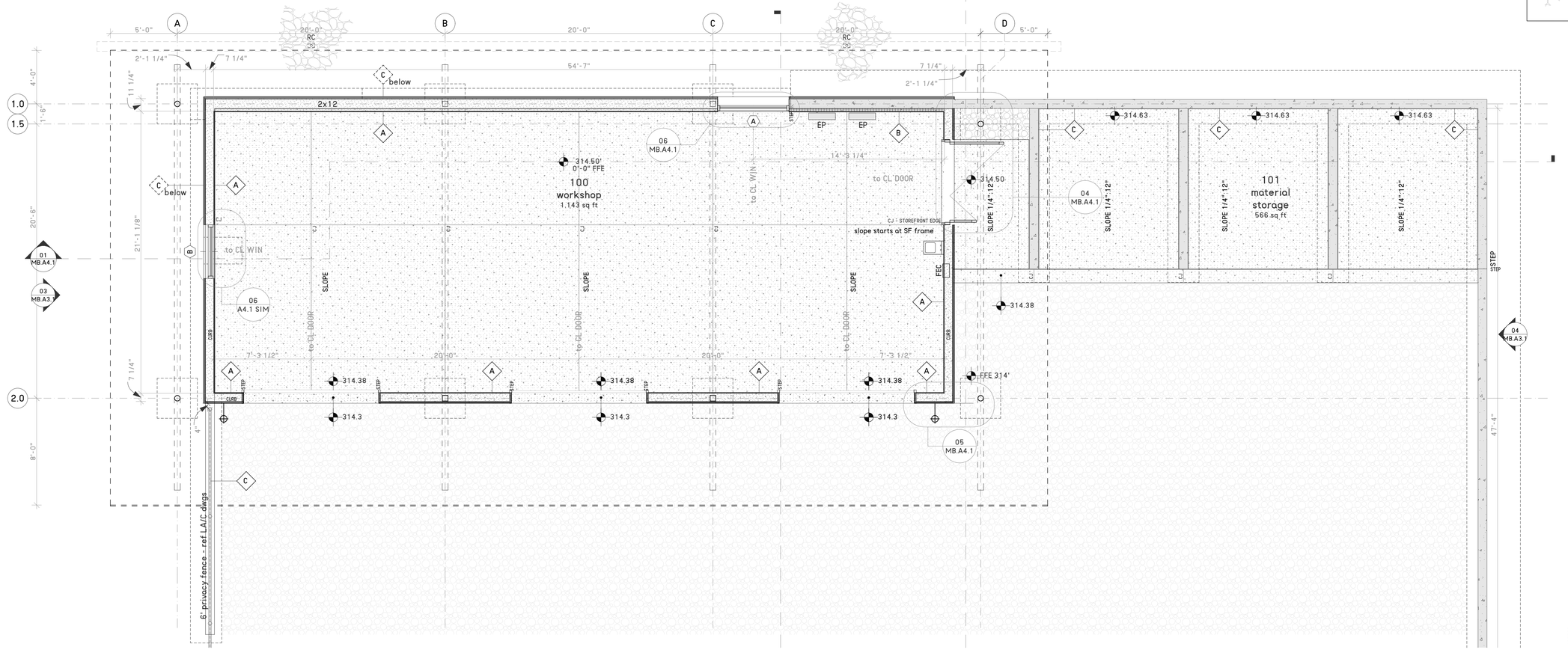
FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING MATERIAL	CEILING HEIGHT	NOTES
100	workshop	polished exp agg conc.	rubber - 4"	ptd gyp bd type x + windows	ptd gyp bd type x	sloped	-
101	material storage	conc - broom finish	-	wood siding + concrete wall	ptd fiber cement	sloped	-

DOOR SCHEDULE

DOOR #	POSITION	TYPE	WIDTH	HEIGHT	DOOR	FRAME	FACE	CORE	THICKNESS	HARDWARE	NOTES
01	exterior	garage coil	10'-0"	10'-0"	steel	steel	pc	insul	3"	hasp	insulated manual overhead ceiling door
02	exterior	garage coil	10'-0"	10'-0"	steel	steel	pc	insul	3"	hasp	insulated manual overhead ceiling door
03	exterior	garage coil	10'-0"	10'-0"	steel	steel	pc	insul	3"	hasp	insulated manual overhead ceiling door
04	exterior	outswing	6'-0"	8'-4"	alum	alum	alum	frit glass	2 1/4"	latch + lock	weatherstripping, card reader entry, 4' active leaf, HDW per allowance

FLOOR PLAN LEGEND
- cip concrete wall
- slab on grade
- gravel
- hose bib
- boulder splash pad - ref LA/C dwgs



01 MB.A2.1 floor plan
SCALE: 1/4" = 1'-0"

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Cost Estimation

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floor plan + schedules

MB.A2.1

02 MB.A2.2 roof plan
SCALE: 1/4" = 1'-0"

01 MB.A2.2 reflected ceiling + systems layout plan
SCALE: 1/4" = 1'-0"

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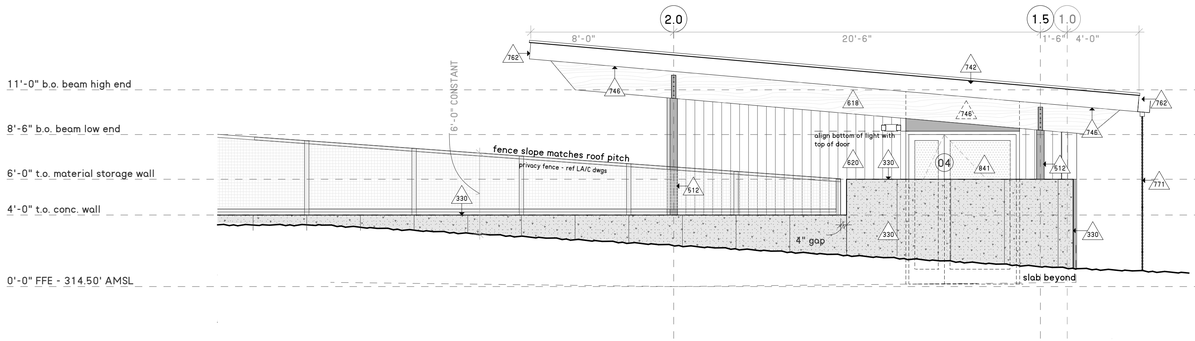
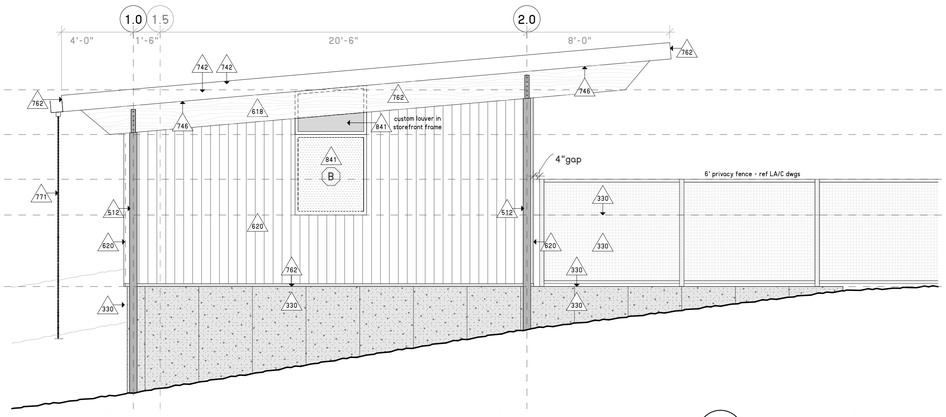
roof plan +
reflected ceiling
plan

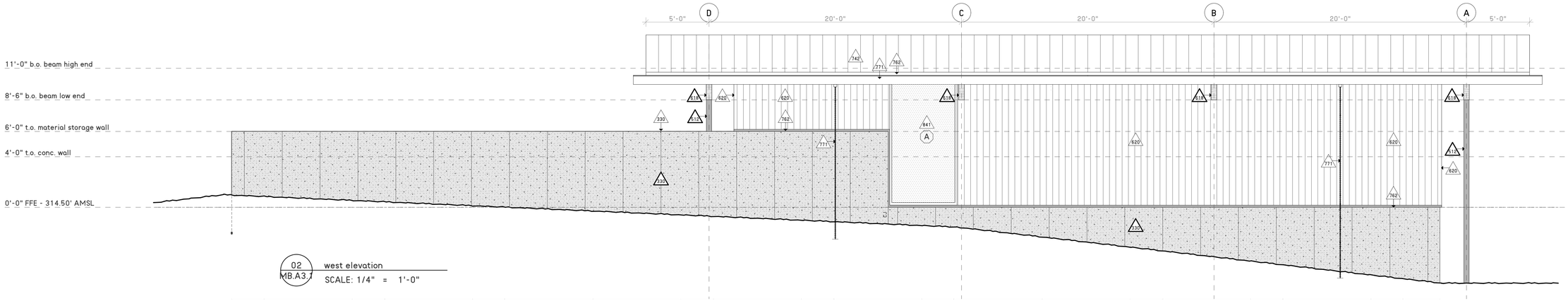
MB.A2.2



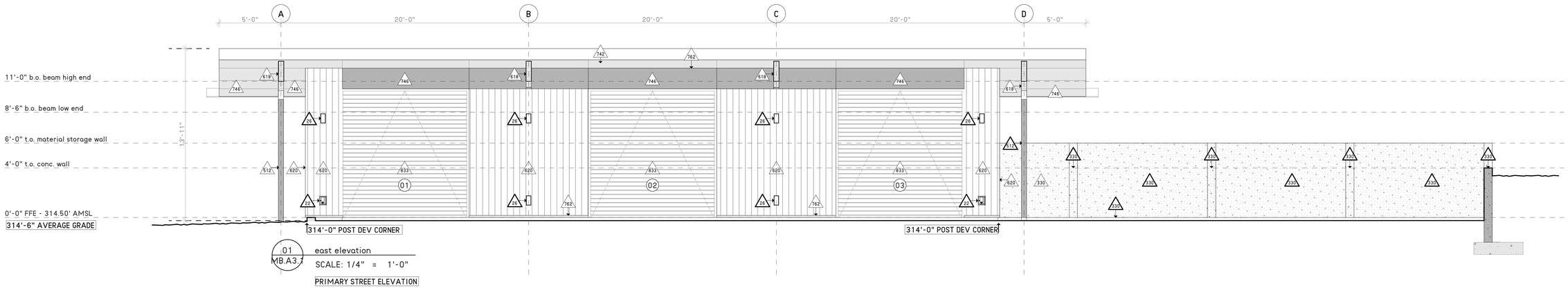
04 MB.A3.1 north elevation
SCALE: 1/4" = 1'-0"



03 MB.A3.1 south elevation
SCALE: 1/4" = 1'-0"



02 MB.A3.1 west elevation
SCALE: 1/4" = 1'-0"



01 MB.A3.1 east elevation
SCALE: 1/4" = 1'-0"
PRIMARY STREET ELEVATION

MATERIAL LEGEND

313 GRAVEL	550 METAL FABRICATION	615 INTERIOR FINISH CARPENTRY	746 FIBER CEMENT SIDING	833 COILING DOOR	929.1 GYPSUM BOARD - TYPE X	26 ELECTRICAL FIXTURES
330 CAST-IN-PLACE CONCRETE	610 ROUGH FRAMING	620 EXTERIOR FINISH CARPENTRY	762 METAL TRIM + FLASHING	841 ALUMINUM STOREFRONT	964 RUBBER BASE	26 FIRE ALARM FIXTURES
512 STRUCTURAL STEEL	618 GLULAM CONSTRUCTION	742 STANDING SEAM METAL ROOF	771 GUTTER + RAIN CHAIN	929 GYPSUM BOARD	22 PLUMBING FIXTURES	28 HVAC FIXTURES

△ *DENOTES OTHER TRADE SCOPE - SHOWN FOR COORDINATION ONLY

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Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

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BY | DATE

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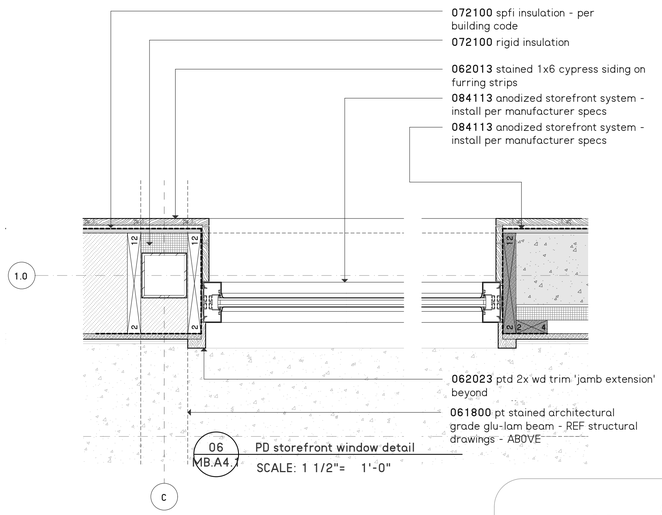
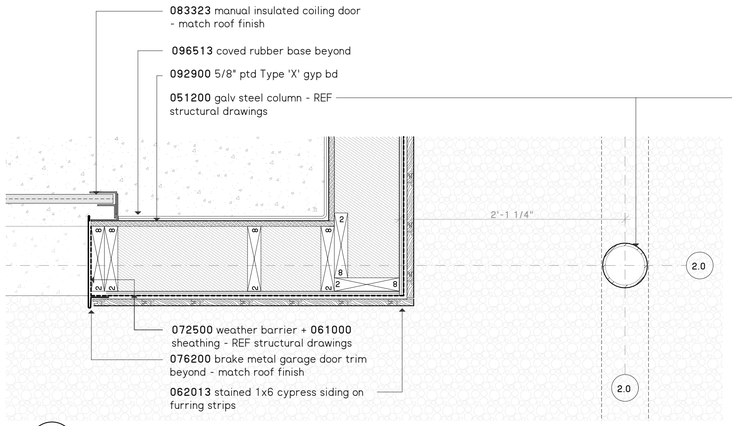
building elevations

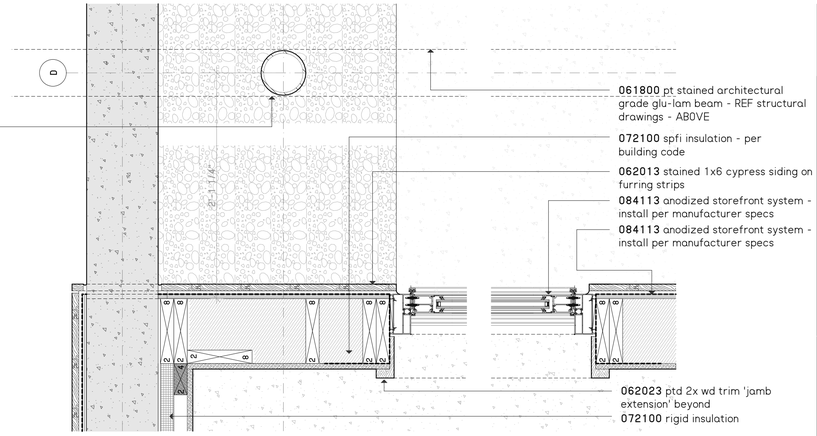
MB.A3.1



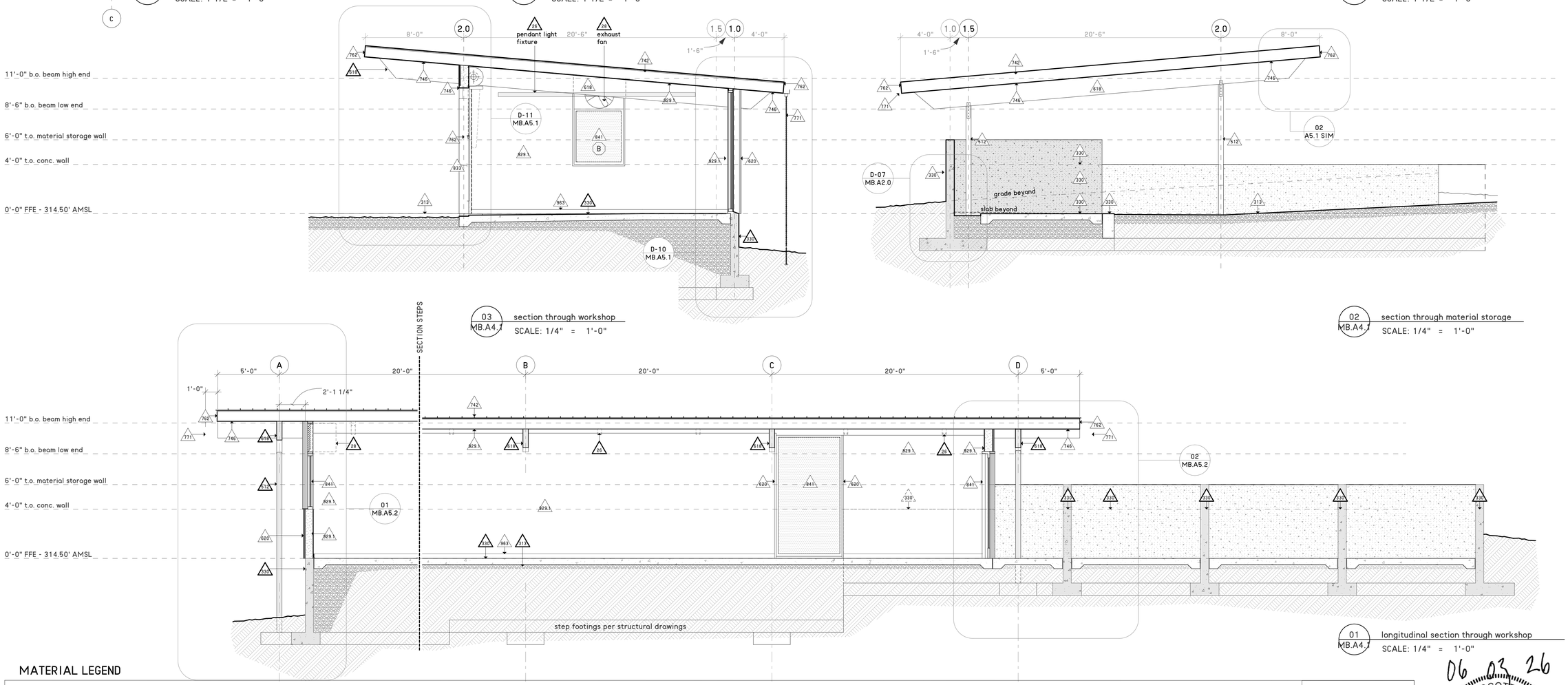
06 MB.A4.1 PD storefront window detail
SCALE: 1 1/2"= 1'-0"



05 MB.A4.1 PD coiling door + building corner detail
SCALE: 1 1/2"= 1'-0"



04 MB.A4.1 PD entry detail
SCALE: 1 1/2"= 1'-0"



03 MB.A4.1 section through workshop
SCALE: 1/4" = 1'-0"

02 MB.A4.1 section through material storage
SCALE: 1/4" = 1'-0"

01 MB.A4.1 longitudinal section through workshop
SCALE: 1/4" = 1'-0"

MATERIAL LEGEND

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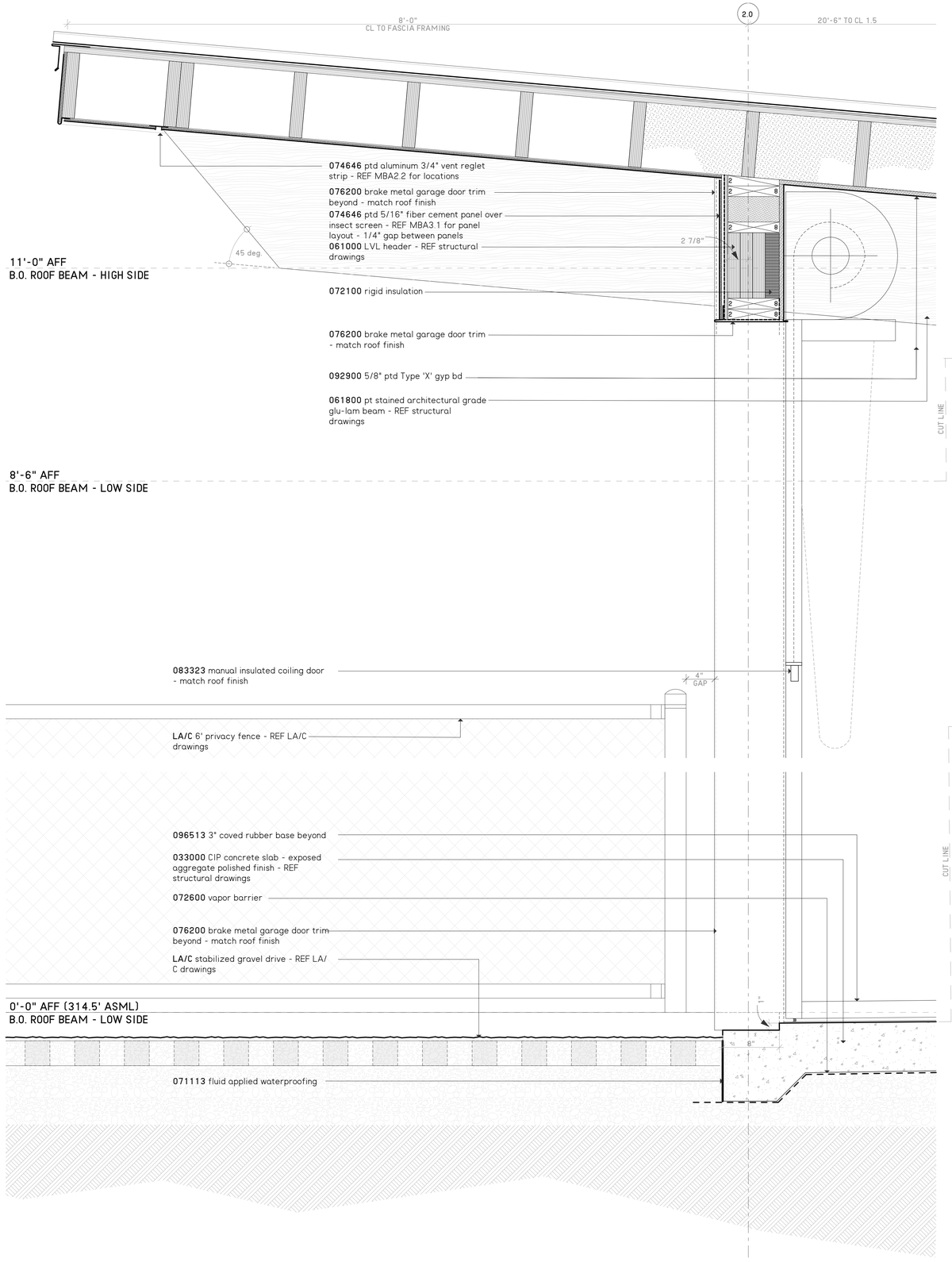
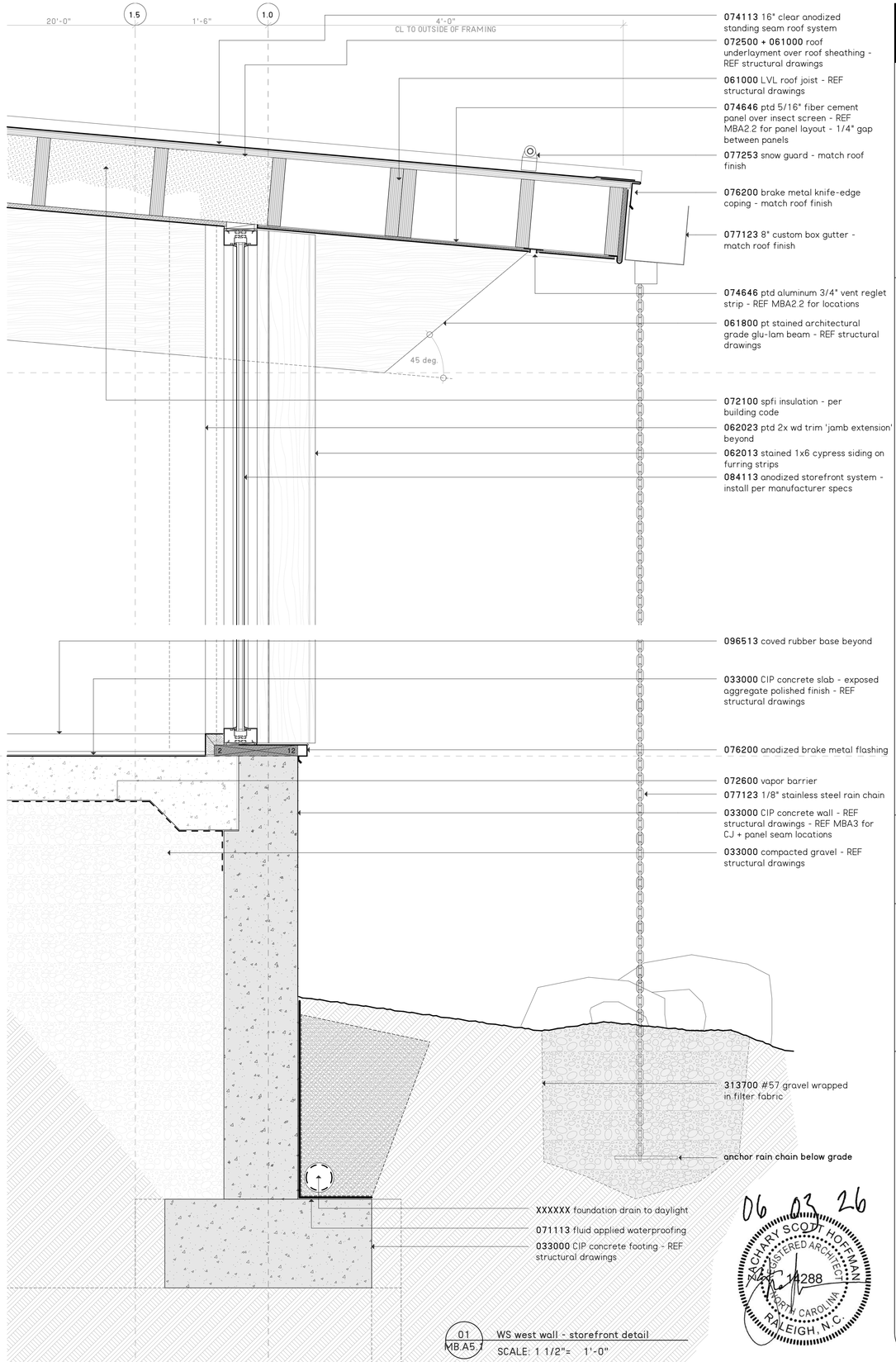
building sections

MB.A4.1



02 MB.A5.1 WS east wall - garage door detail
SCALE: 1 1/2"= 1'-0"



01 MB.A5.1 WS west wall - storefront detail
SCALE: 1 1/2"= 1'-0"

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Cost Estimation

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scale as noted

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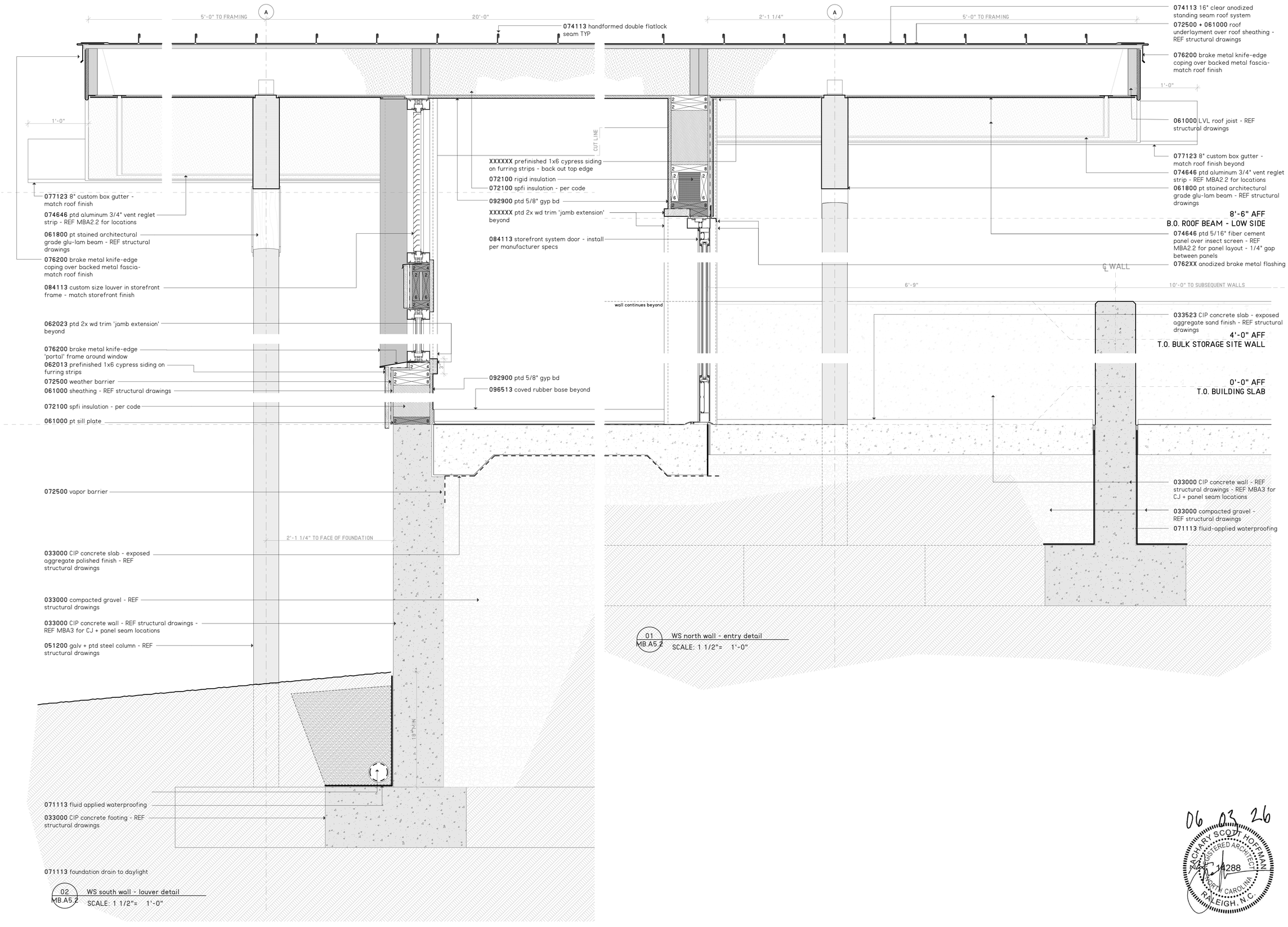
section details - E/W

MB.A5.1



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section details -
N/S

MB.A5.2

GENERAL STRUCTURAL NOTES

GENERAL

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

CONTRACTOR SHALL TAKE SUCH ACTION AS NECESSARY TO PREVENT MOVEMENT OF OR DAMAGE TO THE ADJACENT STRUCTURE DURING CONSTRUCTION.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE NOT CURRENTLY A PART OF OUR CONTRACT BUT CAN BE PROVIDED ACCORDING TO THE HOURLY RATES LISTED IN OUR PROPOSAL.

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR OR OWNER. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHOULD BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURAL SLAB CONSTRUCTION FOR CONCENTRATED LOADS DUE TO VEHICULAR OR FORKLIFT TRAFFIC. THE SLAB IS DESIGNED FOR UNIFORM LOADING AS NOTED IN THE "DESIGN LOADS" PORTION OF THE STRUCTURAL NOTES AND CONCENTRATED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE BUILDING CODE.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE FOR SPECIFIC VIBRATION LIMITS. VIBRATION LIMITATIONS ARE BASED ON STANDARD ENGINEERING PRACTICES AND PAST EXPERIENCE WITH SIMILAR CONSTRUCTION.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE TO SUPPORT DYNAMIC LOADS FROM VIBRATING MACHINERY OR EQUIPMENT. ALL VIBRATING EQUIPMENT AND MACHINERY MUST BE ISOLATED FROM THE STRUCTURE.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ABBREVIATIONS

AB	ANCHOR BOLT	NTS	NOT TO SCALE
AFF	ABOVE FINISH FLOOR	O.C.	ON CENTER
B/B	BACK TO BACK	P.A.F.	POWDER-ACTUATED FASTENER
BCX	BOTTOM CHORD EXTENSION	P.T.	PRESSURE-TREATED
C/C	CENTER TO CENTER	SER	STRUCT. ENGINEER OF RECORD
C.J	CONTROL / CONSTR. JOINT IN SLAB	S.P.F.	SPRUCE-PINE-FIR
D.J	DOUBLE JOIST	S.Y.P.	SOUTHERN YELLOW PINE
E.J	EXPANSION JOINT	T.O.F.	TOP OF FOOTING
EOS	EDGE OF SLAB	T.O.S.	TOP OF STEEL
E.W.	EACH WAY	T.O.J.	TOP OF JOIST
JBE	JOIST BEARING ELEVATION	U.N.O.	UNLESS NOTED OTHERWISE
M.C.J	MASONRY CONTROL JOINT	W.W.F.	WELDED WIRE FABRIC

CODE

NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (IBC 2015)
STRUCTURAL LOADING PER ASCE 7-2010

BLDG RISK CATEGORY (NCSBC TABLE 1604.5) II

DESIGN LOADS

ROOF DEAD LOAD	20	PSF
ROOF LIVE LOAD	20	PSF
FLOOR DEAD LOAD	50	PSF
FLOOR LIVE LOAD (Uniform)	100	PSF
FLOOR LIVE LOAD (Concentrated)	2000	LBS
SNOW LOAD DATA :		
GROUND SNOW LOAD	15	PSF
SNOW EXPOSURE FACTOR	1.0	
SNOW LOAD IMPORTANCE FACTOR	1.0	
THERMAL FACTOR	1.1	
FLAT ROOF SNOW LOAD	15	PSF
ROOF SLOPE FACTOR	1.0	
PITCHED ROOF SNOW LOAD	15	PSF
WIND LOAD DATA :		
ULTIMATE DESIGN WIND SPEED, Vult	115	MPH
WIND EXPOSURE	B	
INTERNAL PRESSURE COEFFICIENTS	+0.18, -0.18	
WIND PRESSURE FOR COMPONENTS / CLADDING	PER ASCE 7-10	
SEISMIC LOAD DATA :		
SEISMIC SITE SOIL CLASS	D	
SEISMIC DESIGN CATEGORY	B	
Ss =	0.158	
S1 =	0.078	
Sds =	0.168	
Sd1 =	0.125	

FOUNDATIONS

ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING 3,000 PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. REFER TO GEOTECHNICAL REPORT (TERRACON PROJECT NO. 70244418B) FOR HISTORIC YATES MILL COUNTY PARK BY TERRACON DATED 12/12/25.

THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER, PRIOR TO STARTING WORK, FOR SOIL REPAIR AND REINFORCEMENT REQUIREMENTS IF THERE ARE ANY UNSATISFACTORY SOILS ENCOUNTERED, (INCLUDING BUT NOT LIMITED TO SHIFTING, COMPRESSIBLE, SATURATED SOILS)

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL, AND SHALL BE COORDINATED WITH GEOTECHNICAL REPORT, IF REPORT IS PROVIDED FOR PROJECT. ANY INFORMATION IN THE GEOTECHNICAL REPORT SHALL CONTROL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL. UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, THE MINIMUM BEARING CAPACITY OF THE SUBGRADE SHALL BE 3,000 PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D-698 IN THE FINAL FOOT BENEATH FOOTINGS, FLOOR SLABS AND PAVEMENTS. SEE THE TERRACON GEOTECHNICAL REPORT REFERENCED ABOVE FOR FILL OPERATION DETAILS.

WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT BRACING UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE". ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE:

FOOTINGS	3000 PSI
POURED-IN-PLACE WALLS	4,000 PSI
SLABS ON GRADE	4,000 PSI
ELEVATED SLABS	4,000 PSI

USE NORMAL WEIGHT CONCRETE FOR FOOTINGS AND SLABS ON GRADE. SEE SLAB ON GRADE NOTES FOR ADDITIONAL REQUIREMENTS.

CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 6 PERCENT (+/- 1.5%).

SLAB-ON-GRADE CONSTRUCTION

PLACE FLOOR SLAB ON A WELL COMPACTED BASE. THE SUBGRADE SHALL BE GRANULAR, NON-EXPANSIVE SOIL (THAT IS, WITHOUT CLAY), WHICH HAS BEEN COMPACTED TO AT LEAST 95%, EXCEPT 98% FOR FINAL FOOT, AND VERIFIED BY ON-SITE TESTING.

TYPICAL SLAB ON GRADE SHALL BE 6" THICK, NORMAL WEIGHT CONCRETE. REINFORCE SLAB ON GRADE WITH WELDED WIRE FABRIC (W.W.F.) PER DETAILS IN SHEETS, NOT ROLLS. PLACE W.W.F. 1.5" BELOW TOP OF SLAB, TO LIMIT THE RISK OF BEING CUT BY THE SAW JOINTS, WHICH ARE USUALLY 1/4 THE DEPTH OF THE SLAB.

CONCRETE STRENGTH SHALL BE THE STRENGTH, AS NOTED IN GENERAL NOTES, AT 28 DAYS. GENERAL CONTRACTOR SHALL USE WATER REDUCING ADMIXTURES TO REDUCE WATER, IF NECESSARY, TO INCREASE WORKABILITY AND DECREASE SHRINKAGE CRACKS.

USE 6% AIR ENTRAINMENT ON EXTERIOR SLABS. DO NOT USE AIR ENTRAINMENT ON INTERIOR SLABS (3% MAXIMUM AIR ENTRAINMENT).

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE AT A MAXIMUM SPACING OF 12'-0" O.C. FOR 6" THICK SLABS, UNLESS NOTED OTHERWISE. THESE CONTROL JOINTS SHALL BE BY THE GENERAL CONTRACTOR, IN ACCORDANCE WITH ACI 318. ACI STANDARD PRACTICE IS TO PLACE JOINTS 4 - 8 HOURS AFTER CONCRETE POUR. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECTURAL PLANS.

LIGHTLY DAMPEN THE SUB-GRADE BEFORE PLACING CONCRETE TO PREVENT THE SUB-GRADE FROM ABSORBING WATER FROM CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUB-GRADE SURFACE.

STEEL TROWEL THE CONCRETE TO A SHINY FINISH WHICH RESULTS IN A HARD, DENSE SURFACE. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL FINISH REQUIREMENTS.

DURING HOT WEATHER, USE A FOG SPRAY TO KEEP THE SURFACE DAMP BEFORE APPLYING CURING COMPOUND.

START CURING AS SOON AS THE FINISHERS ARE DONE. APPLY THE CURING COMPOUND IN TWO COATS AT RIGHT ANGLES TO EACH OTHER AND NOT MORE THAN 300 SQUARE FEET PER GALLON, ABOUT 15 MINUTES APART.

SEE ARCHITECTURAL PLANS FOR SLAB FINISHES AND LOCATION OF CONTROL JOINTS.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2'-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

LAP ALL SPLICES IN CAST-IN-PLACE CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 50 BAR DIAMETERS.

PROVIDE DOWELS IN WALL FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL EXTENDING 24 BAR DIAMETERS INTO FOOTING (UNLESS A HOOKED BAR IS PROVIDED) AND 12 BAR DIAMETERS INTO WALL, UNLESS NOTED OTHERWISE.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

CONCRETE MASONRY

CONCRETE MASONRY UNITS SHALL BE ERECTED AS LOAD BEARING CONCRETE MASONRY. COMPLY WITH THE REQUIREMENTS OF ACI 530.1 / ASCE 6 / TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES."

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM SPECIFICATIONS FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (ASTM C90). MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY (ASTM C270), TYPE "M" OR "S". THE MINIMUM NET COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 2000 PSI (f'm = 2000 PSI FOR MASONRY SYSTEM).

ALL GROUT USED TO FILL REINFORCED MASONRY CAVITIES AND SHOWN AT OTHER LOCATIONS ON THE PLANS SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. IN ALL CMU WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS. USE LADDER TYPE DUR-O-WALL REINFORCEMENT, HOT DIP GALVANIZED AFTER FABRICATION. LONGITUDINAL WIRES SHALL BE A MINIMUM OF (2) NO. 9 GAGE. LOCATE JOINT REINFORCEMENT IN FIRST AND SECOND BED JOINTS, 8" APART IMMEDIATELY ABOVE LINTELS AND BELOW SILLS AT OPENINGS. REINFORCEMENT SHALL NOT EXTEND THROUGH VERTICAL MASONRY CONTROL JOINTS.

ALL STEEL BEARING SHALL BE ON A BOND BEAM, SOLID BLOCK OR 8" OF BRICK.

WHERE INTERIOR CONCRETE MASONRY PARTITIONS MEET OTHER INTERIOR PARTITIONS OR EXTERIOR WALLS, PROVIDE A CONTROL JOINT WITH METAL STRAP ANCHORS BETWEEN WALLS.

PROVIDE BOND BEAMS AT THE TOP OF MASONRY ELEVATIONS AS SHOWN ON THE DRAWINGS. BOND BEAMS TO HAVE (2) #4 BARS CONTINUOUS UNLESS OTHERWISE NOTED. WHERE THE BOND BEAM IS INTERSECTED BY A CONTROL JOINT, CHANGE THE BARS TO SMOOTH ROUND BARS AND GREASE ONE END SO THAT LATERAL MOVEMENT WILL NOT BE RESTRAINED.

MASONRY WALLS ARE TO BE LATERALLY BRACED DURING CONSTRUCTION IN ACCORDANCE WITH "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND THE MASON CONTRACTORS ASSOCIATION OF AMERICA. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT SUPPORTING ELEMENTS OF THE STRUCTURE ARE IN PLACE.

REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF MASONRY CONTROL JOINTS, OR IF NOT SHOWN, COORDINATE WITH ARCHITECT. IN GENERAL, CONTROL JOINTS SHOULD BE LOCATED WITH A MAXIMUM SPACING OF 30'-0".

STRUCTURAL STEEL

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360-10)".

ALL EXTERIOR STEEL SHALL BE GALVANIZED

GENERAL CONTRACTOR TO COORDINATE SHOP COATS OF RUST-INHIBITIVE PAINT. STEEL COLUMNS BELOW GRADE THAT ARE NOT ENCASED IN CONCRETE SHALL BE FIELD PAINTED WITH A WATERPROOF MASTIC COMPOUND TO PREVENT CORROSION.

THE STEEL USED SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS:

WIDE FLANGE SHAPES ('W' SHAPES)	50 KSI (A992)
CHANNELS, ANGLES, PLATES, MISC. SHAPES	36 KSI (A36)
STRUCTURAL PIPE SHAPES	35 KSI (A53, B)
HSS TUBE SHAPES	46 KSI (A500, B or C)

USE 3/4" DIAMETER ASTM F3125 GRADE A325 BOLTS FOR ALL STEEL TO STEEL CONNECTIONS U.N.O. DESIGN FOR THREADS INCLUDED (TYPE N) CONDITIONS, U.N.O. BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT.

USE F1554 (GRADE 36) BOLTS FOR ALL ANCHOR BOLTS U.N.O.
HEADED WELD STUDS SHALL BE MADE OF MATERIAL CONFORMING TO ASTM A108.
USE E-70 ELECTRODES FOR ALL SHOP AND FIELD WELDING.

THE STEEL FABRICATOR SHALL DESIGN ALL STEEL TO STEEL CONNECTIONS FOR THE SERVICE LOAD REACTIONS SHOWN ON THE DRAWINGS (USE 6.0K MINIMUM WHERE NOT SHOWN). WHERE SINGLE SHEAR PLATES ARE USED, CONNECTIONS FOR WIDE FLANGE BEAMS SHALL HAVE THE FOLLOWING MINIMUM ROWS OF BOLTS :

W8, W10, W12 BEAMS	(2) ROWS OF BOLTS
W14, W16 BEAMS	(3) ROWS OF BOLTS

THE STEEL SUPPLIER SHALL DESIGN ALL STEEL STAIRS AND LADDERS IN ACCORDANCE WITH THE N.C. STATE BUILDING CODE. STAIR SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA.

FOR MISCELLANEOUS STEEL NOT SHOWN ON THESE DRAWINGS, SEE ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS.

CONNECTIONS BETWEEN STRUCTURAL STEEL MEMBERS SHALL BE AS SHOWN ON STRUCTURAL DRAWING DETAILS. ALTERNATE CONNECTION DETAILS MUST BE APPROVED IN WRITING, BY THE STRUCTURAL ENGINEER OF RECORD, PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

SUBMIT ERECTION AND SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL GLUED LAMINATED WOOD

MATERIALS, MANUFACTURE AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARD ANSI A190.1-2022, "STANDARD FOR WOOD PRODUCTS - STRUCTURAL GLUED LAMINATED TIMBER".

LAMINATING COMBINATIONS SHALL MEET THE REQUIREMENTS OF ANSI A190.1, AND SHALL PROVIDE ALLOWABLE DESIGN VALUES OF 2400 PSI IN BENDING, 1700 PSI IN COMPRESSION PARALLEL TO GRAIN, 1150 PSI IN TENSION PARALLEL TO GRAIN, 740 PSI IN COMPRESSION PERPENDICULAR TO GRAIN, 200 PSI IN HORIZONTAL SHEAR, AND 1700000 PSI IN MODULUS OF ELASTICITY FOR DRY CONDITIONS OF SERVICE.

GLU-LAM FRAMING MEMBERS SHALL BE MANUFACTURED USING THE ARCHITECTURAL APPEARANCE CLASSIFICATION ACCORDING TO ANSI A190.1-2022-12.4.

ADHESIVES SHALL MEET THE REQUIREMENTS FOR WET CONDITION OF SERVICE.

GLU-LAM FRAMING MEMBERS EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED TO MEET THE REQUIREMENTS OF AWPA U1 FOR USE CATEGORY UC3B. STEEL HARDWARE FOR GLU-LAM FRAMING SHALL BE HOT-DIP GALVANIZED (SKIP THE QUENCH STAGE TO FACILITATE FIELD PAINTING)

MEMBERS SHALL BE MARKED WITH QUALITY MARK, AND, IN ADDITION, A CERTIFICATE OF CONFORMANCE SHALL BE PROVIDED TO INDICATE CONFORMANCE WITH ANSI A190.1.

CAREFULLY UNLOAD AND HANDLE THE LAMINATED MEMBERS AT JOBSITE TO PREVENT SURFACE MARRING AND DAMAGE. IF LAMINATED WOOD IS TO BE STORED BEFORE ERECTION, PLACE IT ON BLOCKS WELL OFF THE GROUND WITH INDIVIDUAL MEMBERS SEPARATED BY STRIPS SO THAT AIR MAY CIRCULATE. COVER THE TOP AND SIDES OF STORAGE PILES WITH MOISTURE-RESISTANT COVERING. (DO NOT USE CLEAR POLYETHYLENE FILMS). WHEN HOISTING MEMBERS INTO PLACE USE PADDED OR NON-MARRING SLINGS, AND PROTECT CORNERS WITH WOOD BLOCKING. ADEQUATELY BRACE MEMBERS AS THEY ARE ERECTED TO HOLD THEM IN A SAFE POSITION UNTIL FULL STABILITY IS PROVIDED.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #1 (NLGA grading rules) UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (UNO). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL".

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

ALL JOINTS OF SOLID WOOD GIRDERS AND THE OUTSIDE MEMBERS OF BUILT-UP GIRDERS SHALL BE MADE OVER PIER OR COLUMN SUPPORTS.

MICRO.LAM HEADERS (LVL'S) ARE MANUFACTURED BY Weyerhauser (Level Trus Joist. (THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT HEADERS IF PROPERLY DESIGNED BY THE MANUFACTURER.) MICRO=LAM HEADERS ARE ALWAYS DOUBLED AND MUST BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS @ 12" O.C. STAGGERED. PROVIDE CONTINUOUS LATERAL SUPPORT FOR TOP OF HEADER.

BUILT-UP STUD COLUMNS MUST BE SECURELY BOLTED AND NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. MAXIMUM BOLT SPACING IS 3'-0" WITH BOLTS AT BOTH ENDS.

WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 1/2" DIAMTER BOLTS SPACED NOT MORE THAN 6' APART AND WHICH ARE EMBEDDED AT LEAST 6" IN CONCRETE OR 15" IN MASONRY UNITS. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

2 X 4 STUDS SPACED AT 12" O.C. SHALL BE USED FOR THE FIRST FLOOR OF THREE STORY BUILDINGS.

THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESSURE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE BUILDING CODE.

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
10/01/26

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REV. # DATE
BID PLANS 10/01/26

BID

10/01/26
MRB
scale as noted

HISTORIC YATES MILL COUNTY PARK
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RALEIGH, NC 27603

GENERAL STRUCTURAL NOTES

MB.S1.0

FOOTING SCHEDULE			
MK#	SIZE	REINFORCING	NOTES
WF2.8	2'-8" WIDE X 16" THICK	(5) #5 CONTINUOUS	FOUND/BAY WALLS
WFR2.8	2'-8" WIDE X 16" THICK	SEE 08/MB.52.1	RETAINING WALL
WF4.0	4'-0" WIDE X 16" THICK	SEE 07/MB.52.1	RETAINING WALL
F2.8	2'-8" X 2'-8" X 16"	(5) #5 EACH WAY	COLUMN FOOTING
TD1	12" WIDE X 16" DEEP	(2) #5'S CONT.	TURN DOWN SLAB
TD2	8" WIDE X 12" DEEP	(1) #5 CONT.	TURN DOWN SLAB

NOTES

1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING.

CONCRETE WALL SCHEDULE		
MK#	DESCRIPTION	NOTES
CW8	EXTERIOR CAST-IN-PLACE 8" WALL. REINFORCE WITH #5'S @ 12" O.C. EACH WAY AT MID-DEPTH.	1, 2
CW12	EXTERIOR CAST-IN-PLACE 12" WALL. REINFORCE WITH #5'S @ 12" O.C. EACH WAY AT MID-DEPTH.	1, 2, 3

NOTES

1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING.

2. PROVIDE VERTICAL CONTROL JOINTS IN WALL AT APPROXIMATELY 25' O.C. COORDINATE EXACT LOCATIONS WITH ARCHITECT.

3. 12" WALL WITH 4" HAUNCH FOR SLAB SUPPORT. SEE DETAIL 06/MB.52.1.

WOOD STUD WALL SCHEDULE		
MK#	DESCRIPTION	NOTES
WSW4	2X4 STUD WALL. STUDS SPACED @ 16" O.C. PROVIDE HORIZONTAL BLOCKING AT 1/3 POINTS.	1, 2
WSW8	2X8 STUD WALL. STUDS SPACED @ 16"O.C. PROVIDE HORIZONTAL BLOCKING AT 1/3 POINTS.	1, 2
WSW12	2X12 STUD WALL. STUDS SPACED @ 16" O.C. PROVIDE HORIZONTAL BLOCKING AT 1/3 POINTS.	1, 2

NOTES

1. SILL PLATES SHALL BE PRESERVATIVE TREATED.
2. ATTACH SILL PLATES WITH ANCHOR BOLTS ACCORDING TO CODE
3. ALL EXTERIOR WALLS ARE SHEAR WALLS - SEE PLAN FOR HOLD DOWNS. SEE 02/MB.52.1 FOR HOLD DOWN DETAIL.

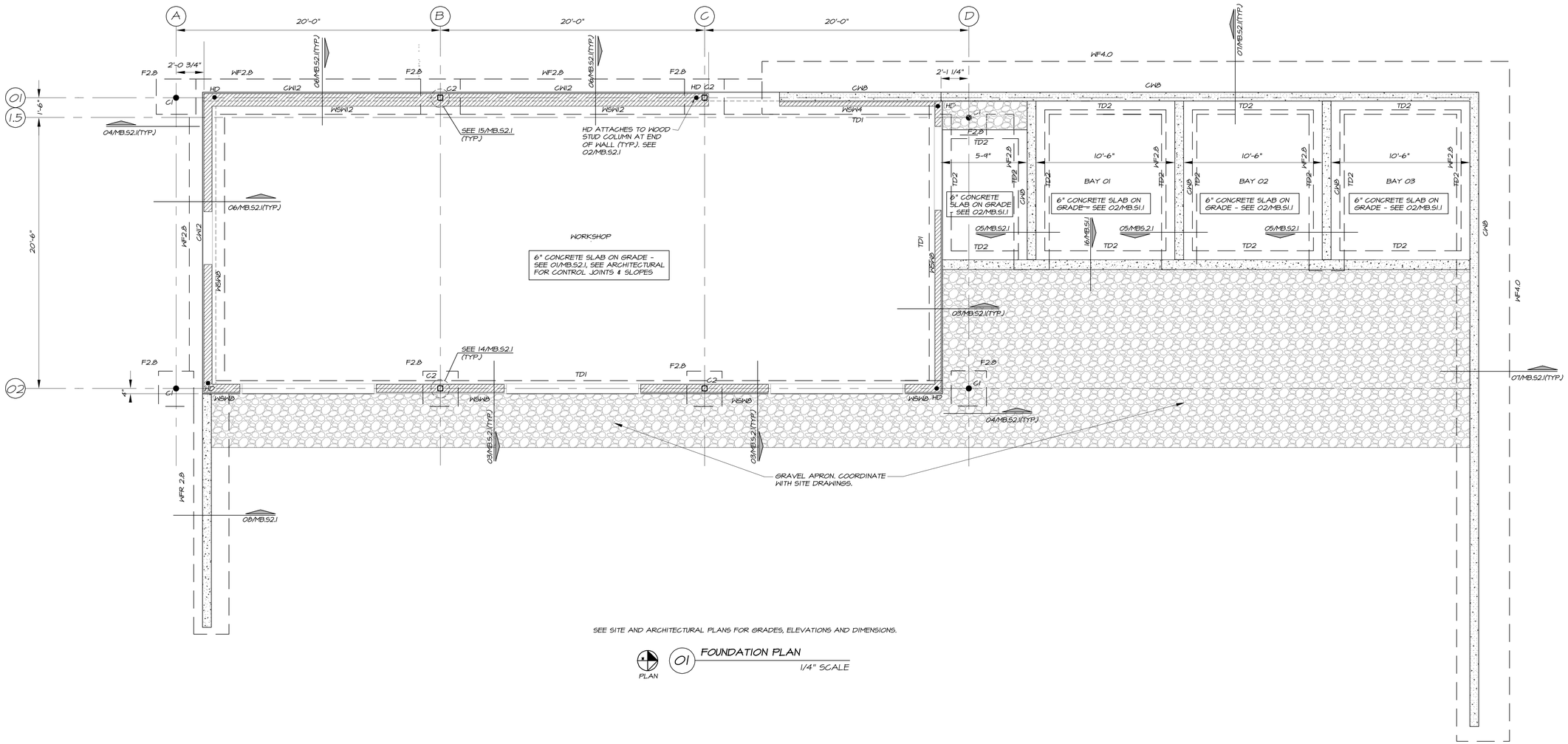
COLUMN SCHEDULE						
MK#	MATERIAL	DESCRIPTION	BASE PLATE	AB	AB SPREAD	NOTES
C1	STEEL	5" DIAMETER STEEL	12" X 12" X 3/4"	(4) 3/4"	9" X 9"	1
C2	STEEL	HSS 5X5X3/8	7 1/2" X 12" X 3/4"	(4) 5/8"	9" X 9"	1

NOTES:

1. ALL EXTERIOR STEEL SHALL BE GALVANIZED

FOUNDATION PLAN NOTES

1. SEE DETAIL 01/MB.52.1 FOR TYPICAL SLAB ON GRADE CONSTRUCTION. THE SLAB IS DESIGNED FOR 100 PSF UNIFORM LIVE LOAD WITH NO PROVISIONS FOR HEAVY CONCENTRATED LOADS.
2. SEE DETAIL 04/MB.52.1 FOR TYPICAL STEPPED FOOTING.
3. WALL FOOTINGS TO BE POURED MONOLITHICALLY WITH SPREAD FOOTINGS AND WALL FOOTING REINFORCING SHALL RUN CONTINUOUSLY THROUGH SPREAD FOOTINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THIS PLAN.
5. ALL EXTERIOR STUD WALLS SHALL BE SHEATHED WITH 7/16" APA RATED PLYWOOD SHEATHING TO RESIST LATERAL LOADS ON THE STRUCTURE. PLYWOOD SHALL BE ATTACHED WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ALL EDGES OF PLYWOOD WALL SHEATHING SHALL BE BLOCKED.
6. SLOPE EXTERIOR SLABS AWAY FROM BUILDING FOUNDATION WALLS FOR DRAINAGE. SLOPE INTERIOR SLAB TOWARD OVERHEAD DOORS. SEE ARCHITECTURAL PLAN.
7. SEE PLUMBING DRAWINGS FOR FLOOR DRAIN AND PIPING PENETRATIONS THROUGH THE FLOOR SLAB AND FOR PIPES ENTERING THE BUILDING. STEP FOOTINGS AS REQUIRED SO THAT PIPES CAN GO UNDER OR OVER FOOTINGS. THE G.C. SHALL COMPACT SOIL AROUND PIPES AS REQUIRED.
8. SEE ARCHITECTURAL PLANS FOR DEPRESSED AND/OR SLOPED SLAB AREAS AND CONTROL JOINT LOCATIONS.



SEE SITE AND ARCHITECTURAL PLANS FOR GRADES, ELEVATIONS AND DIMENSIONS.

PLAN 01 FOUNDATION PLAN

1/4" SCALE

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP

10/01/26

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FOUNDATION PLAN

MB.S1.1

COLUMN SCHEDULE						
MK#	MATERIAL	DESCRIPTION	BASE PLATE	AB	AB SPREAD	NOTES
C1	STEEL	5" DIAMETER STEEL	12" X 12" X 3/4"	(4) 3/4"	9" X 9"	1
C2	STEEL	HSS 5X5X3/8	7 1/2" X 12" X 3/4"	(4) 5/8"	9" X 9"	1

NOTES:

1. ALL EXTERIOR STEEL SHALL BE GALVANIZED

CONCRETE WALL SCHEDULE		
MK#	DESCRIPTION	NOTES
CW8	EXTERIOR CAST-IN-PLACE 8" WALL. REINFORCE WITH #5'S @ 12" O.C. EACH WAY AT MID-DEPTH.	1, 2
CW12	EXTERIOR CAST-IN-PLACE 12" WALL. REINFORCE WITH #5'S @ 12" O.C. EACH WAY AT MID-DEPTH.	1, 2, 3

NOTES

1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING.

2. PROVIDE VERTICAL CONTROL JOINTS IN WALL AT APPROXIMATELY 25' O.C. COORDINATE EXACT LOCATIONS WITH ARCHITECT.

3. 12" WALL WITH 4" HAUNCH FOR SLAB SUPPORT. SEE DETAIL 06/MB.S2.1.

WOOD HEADER SCHEDULE			
MK#	WOOD SIZE	MAX SPAN	NOTES
H1	(3) 2 X 8	6'-0"	1,2
H2	(3) 2 X 10	8'-0"	1,2
H3	(3) 2 X 12	10'-0"	1,2
H4	(3) 1 3/4 X 9 1/4 LVL	12'-0"	1,3

NOTES

1. PROVIDE ONE STUD UNDER AND TWO FULL HEIGHT STUDS BEYOND EACH END OF H1 AND H2. PROVIDE TWO STUDS UNDER AND THREE FULL HEIGHT STUDS BEYOND EACH END OF H3, H4, H5 AND H6. DOUBLE AND TRIPLE STUDS SHALL BE CONSIDERED BUILT UP STUD COLUMNS AS DESCRIBED IN THE "WOOD STUD WALL FRAMING NOTES" ON THIS SHEET.

2. USE #2 GRADE S-P-F FOR SOLID HEADERS. SIZES SHOWN ARE NOMINAL.

3. Fv = 285 PSI, Fb = 2600 PSI, E = 1900000 PSI FOR LVL HEADERS. SIZES SHOWN ARE ACTUAL.

WOOD STUD WALL SCHEDULE		
MK#	DESCRIPTION	NOTES
WSW4	2X4 STUD WALL. STUDS SPACED @ 16" O.C. PROVIDE HORIZONTAL BLOCKING AT 1/3 POINTS.	1, 2
WSW8	2X8 STUD WALL. STUDS SPACED @ 16"O.C. PROVIDE HORIZONTAL BLOCKING AT 1/3 POINTS.	1, 2
WSW12	2X12 STUD WALL. STUDS SPACED @ 16" O.C. PROVIDE HORIZONTAL BLOCKING AT 1/3 POINTS.	1, 2

NOTES

1. SILL PLATES SHALL BE PRESERVATIVE TREATED.
2. ATTACH SILL PLATES WITH ANCHOR BOLTS ACCORDING TO CODE
3. ALL EXTERIOR WALLS ARE SHEAR WALLS - SEE PLAN FOR HOLD DOWNS. SEE 02/MB.S2.1 FOR HOLD DOWN DETAIL.

WOOD STUD WALL FRAMING NOTES

BUILT-UP STUD COLUMNS MUST BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. USE (2) 12d NAILS FOR EACH STUD AT 12"O.C.

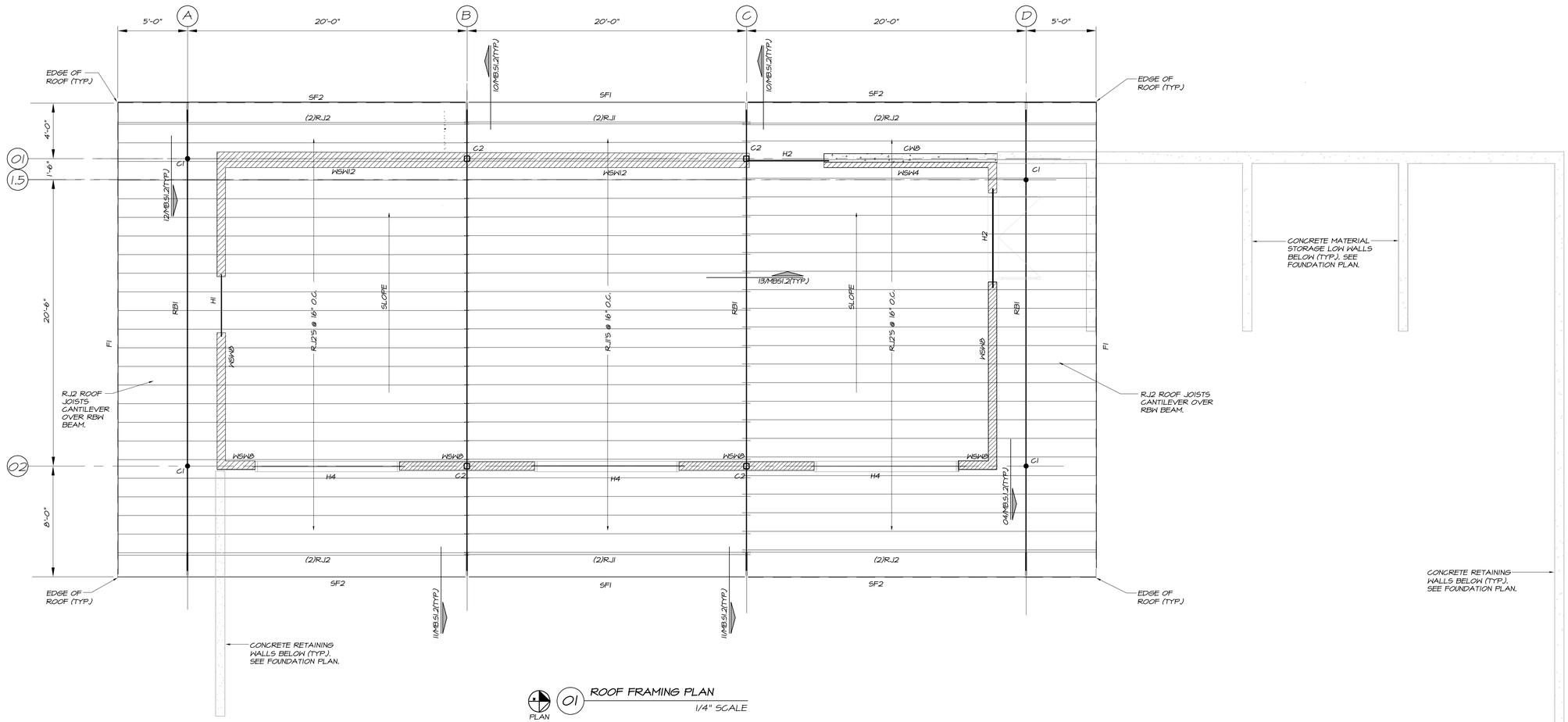
THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL EXTERIOR STUD WALLS AR SHEAR WALLS. SEE FOUNDATION PLAN FOR LOCATION OF SHEAR WALL HOLD DOWNS.

ROOF FRAMING SCHEDULE						
MK#	SIZE	MATERIAL	GRADE	RXN SMALL	RXN LARGE	NOTE
RJ1	1.75 x 9.25	LVL	-	0.5	0.5	1
RJ2	1.75 x 9.25	LVL	-	0.4	1.0	1
SF1	1.75 x 9.25	LVL	-	0.3	0.3	1
SF2	1.75 x 9.25	LVL	-	0.2	0.6	1
F1	1.75 x 9.25	LVL	-	0.02	0.02	1
RB1	5.25 x 18	GLULAM	-	9.6	13.9	1, 2

NOTES

1. SIZES ARE ACTUAL DIMENSIONS IN INCHES
2. CONTRACTOR SHALL SUBMIT GLULAM SHOP DRAWINGS FOR APPROVAL



PLAN 01 ROOF FRAMING PLAN
1/4" SCALE

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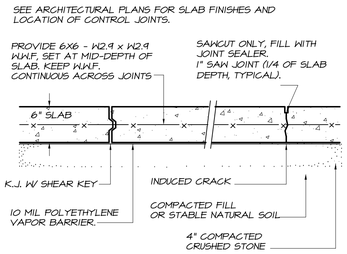
ROOF FRAMING PLAN

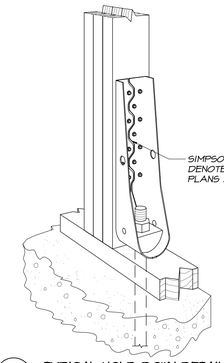
MB.S1.2

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
10/01/26



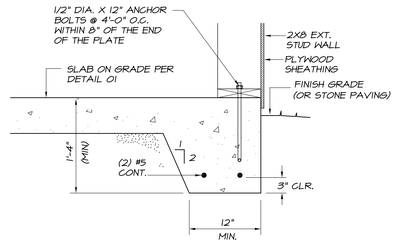
01 MAINTENANCE BUILDING SLAB ON GRADE

NO SCALE



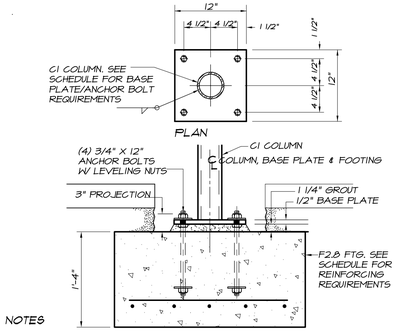
02 TYPICAL HOLD DOWN DETAIL

NO SCALE



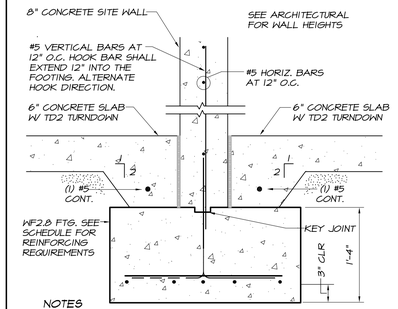
03 TURNED DOWN SLAB AT PERIMETER

NO SCALE



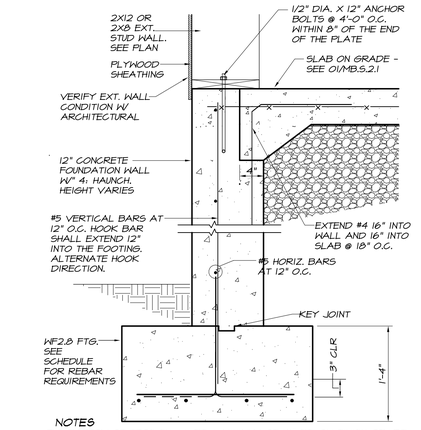
04 PIPE COLUMN BASE DETAIL

NO SCALE



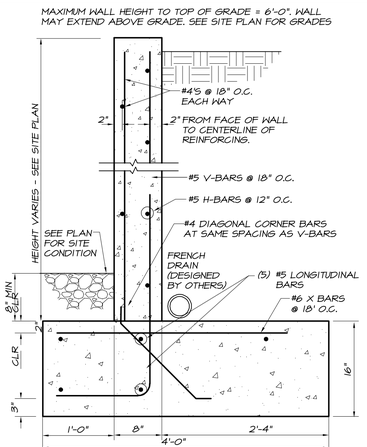
05 WF2.8 FOOTING - CONCRETE WALL (TYPICAL)

NO SCALE



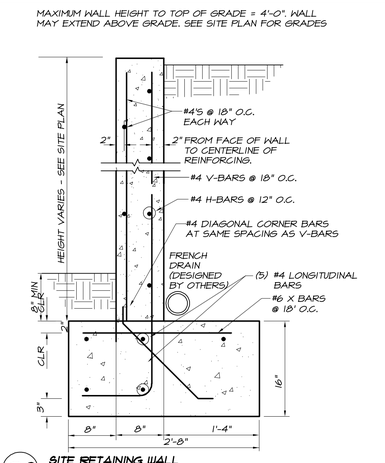
06 WF2.8 FOOTING & FOUNDATION WALL

NO SCALE



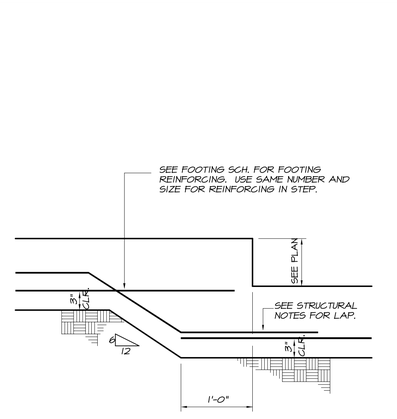
07 SITE RETAINING WALL

NO SCALE



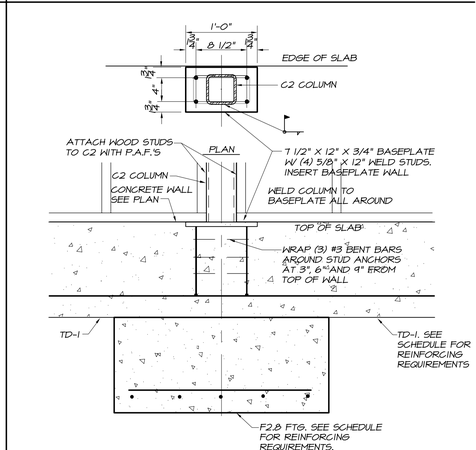
08 SITE RETAINING WALL

NO SCALE



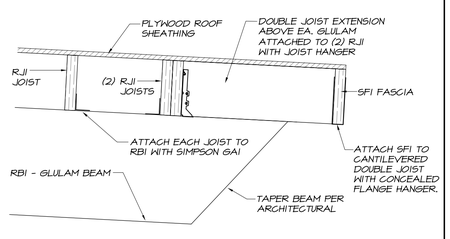
09 TYPICAL STEPPED FOOTING

NO SCALE



14 COLUMN SETTING PLAN @ TURNDOWN

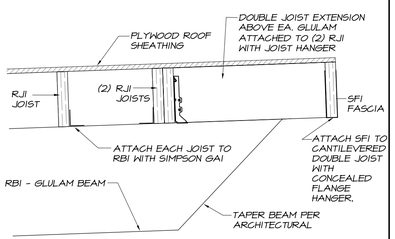
NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON STRUCTURAL ITEMS

10 FASCIA SUPPORT AT ROOF OVERHANG - LOW SIDE

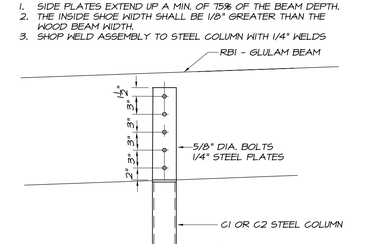
NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON STRUCTURAL ITEMS

11 FASCIA SUPPORT AT ROOF OVERHANG - HIGH SIDE

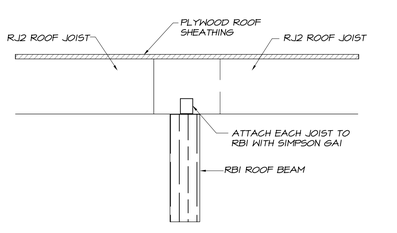
NO SCALE



NOTE: THIS DETAIL ONLY SHOWS THE C1/RBI ATTACHMENT. SEE PLANS AND OTHER DETAILS FOR ADJACENT ELEMENTS.

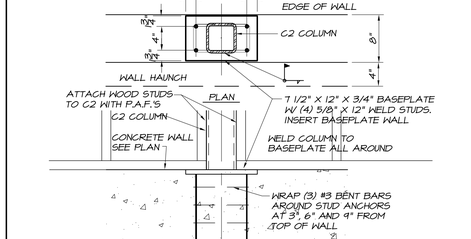
12 C1 COLUMN/ RBI BEAM ATTACHMENT

NO SCALE



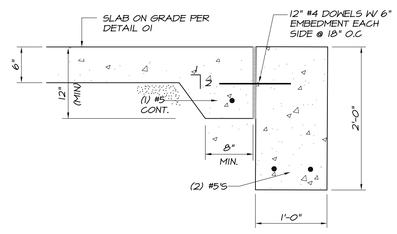
13 RJI/RJ2 TO RBI ATTACHMENT

NO SCALE



15 COLUMN SETTING PLAN @ WALL

NO SCALE



16 TURNED DOWN SLAB AT STORAGE BAYS

NO SCALE

in situ studio
704 N. Person Street
Raleigh, NC 27604
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LYSCHIK ASSOCIATES
structural engineers
120 St. Mary's Street
Raleigh, NC 27605
919.833.1045
lyschikassociates.com
Firm No. C-0621

REV. # DATE
BID PLANS 10/01/26

BID

10/01/26
MRB
scale as noted

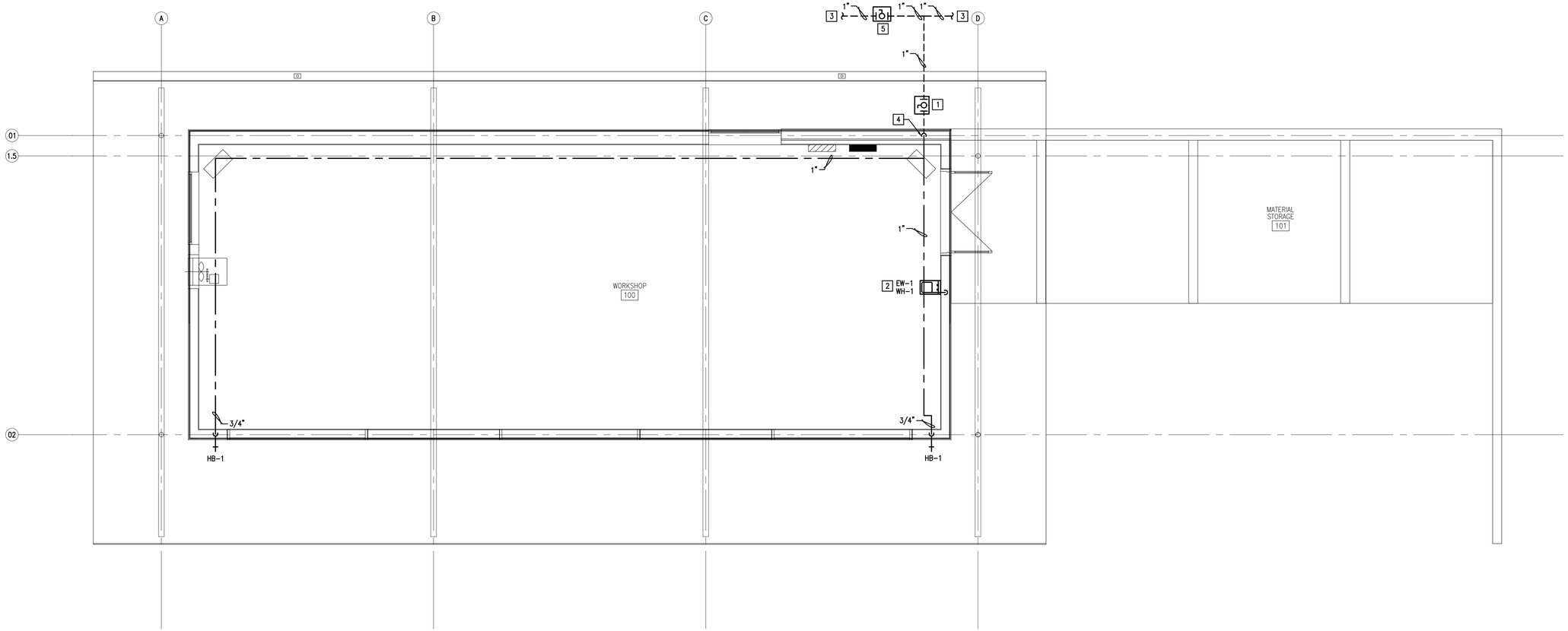
HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

STRUCTURAL DETAILS

MB.S2.1

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP

10/01/26



PLUMBING FLOOR PLAN – MAINTENANCE BUILDING – NEW WORK

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

NEW WORK NOTES

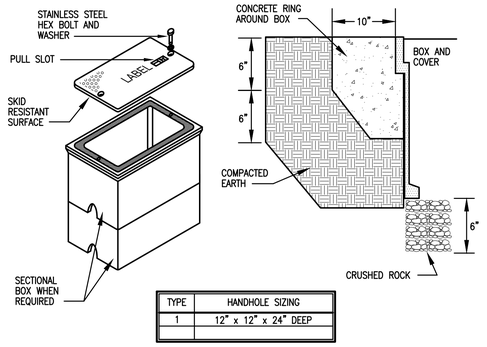
1. PROVIDE SHUT OFF VALVE WITH ASSOCIATED HANDHOLE ENCLOSURE AND PIPING COMPLETE. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "MAINTENANCE BUILDING WATER SERVICE".
2. LOCATE WATER HEATER ADJCAENT TO EYE WASH STATION AND CONNECT.
3. SEE SITE PLAN FOR CONTINUATION. COORDINATE ROUTING AND ADDITIONAL CONNECTIONS WITH ENGINEER.
4. ROUTE PIPING FROM BELOW GRADE INTO BUILDING CONCEALED IN WALL, UP TO STRUCTURE ABOVE. COORDINATE ROUTING WITH ENGINEER.
5. PROVIDE SHUT OFF VALVE WITH ASSOCIATED HANDHOLE ENCLOSURE AND PIPING COMPLETE. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "PAVILION WATER SERVICE".

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	DRAIN (IN)	VENT (IN)	CW (IN)	HW (IN)	POWER	FIXTURE REMARKS
EW-1	EYE WASH	–	–	1/2	1/2	–	
HB-1	HOSE BIBB – EXTERIOR	–	–	3/4	–	–	MOUNT AT 18" ABOVE FINISHED GRADE
WH-1	TANKLESS ELECTRIC WATER HEATER	–	–	3/8	3/8	120V	

TANKLESS ELECTRIC WATER HEATER SCHEDULE

MARK	ENERGY EFF (%)	ELEMENT INPUT (WATTS)	MAX FLOW RATE (GPM)	H2O TEMP RISE (°F)	POWER			REMARKS
					VOLTS	PHASE	AMP	
WH-1	99	1,800	0.3	41	120	1	15	BASIS OF DESIGN EEMAX NON-THERMOSTATIC SINGLE POINT SP1812



TYPE	HANDHOLE SIZING
1	12" x 12" x 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA FOR HEAVY DUTY, H20 LOADING.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL: "DOMESTIC WATER SHUT-OFF VALVE".

COMPOSITE/FIBERGLASS HANDHOLE

NO SCALE

D-203

WATER PIPE SIZE CALCULATIONS

MARK	DESCRIPTION	FU'S	# FIXT	SUBTOTAL
EW-1	EYE WASH	2.0	1	2.0
HB-1	WATER CLOSET	4.0	2	8.0
TOTAL WATER FIXTURE UNITS				10.0
REQUIRED PIPE SIZE		3/4"		
PROVIDED PIPE SIZE		1"		

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.

LEGEND

LEGEND NOTES:

1. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED UNDERGROUND AS NOTED.
2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.

- EXISTING HOT WATER
- DOMESTIC HOT WATER PIPING (HW)
- EXISTING COLD WATER
- DOMESTIC COLD WATER PIPING (CW)
- PIPING TURN UP
- PIPING TURN DOWN
- BOX IN WALL
- VALVE BOX (VB)
- VALVE
- HOSE BIBB (HB)
- CONTINUATION
- POINT OF NEW CONNECTION
- REVISION DESIGNATION
- NEW WORK NOTE
- GENERAL NOTE
- P-# PLUMBING FIXTURE NUMBER – PLUMBING CONTRACTOR TO PROVIDE AND INSTALL.

GRAPHIC SCALE

1/4" = 1'-0"

2' 0 2' 4' 8'

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tarheel Court
Elizabeth City, NC
Phone: 252-888-3003
Email: hdma@hdmdesigns.com
NC LICENSE NO. C-1836
NC LICENSE NO. P0700311

HDM#25008

09/24/26

in situ studio
704 N PERSON STREET
RALEIGH NC 27604
www.insitustudio.us

Consultants
Landscape/Civil KIMLEY-HORN & ASSOCIATES, INC.
Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

IFB

10 01 26

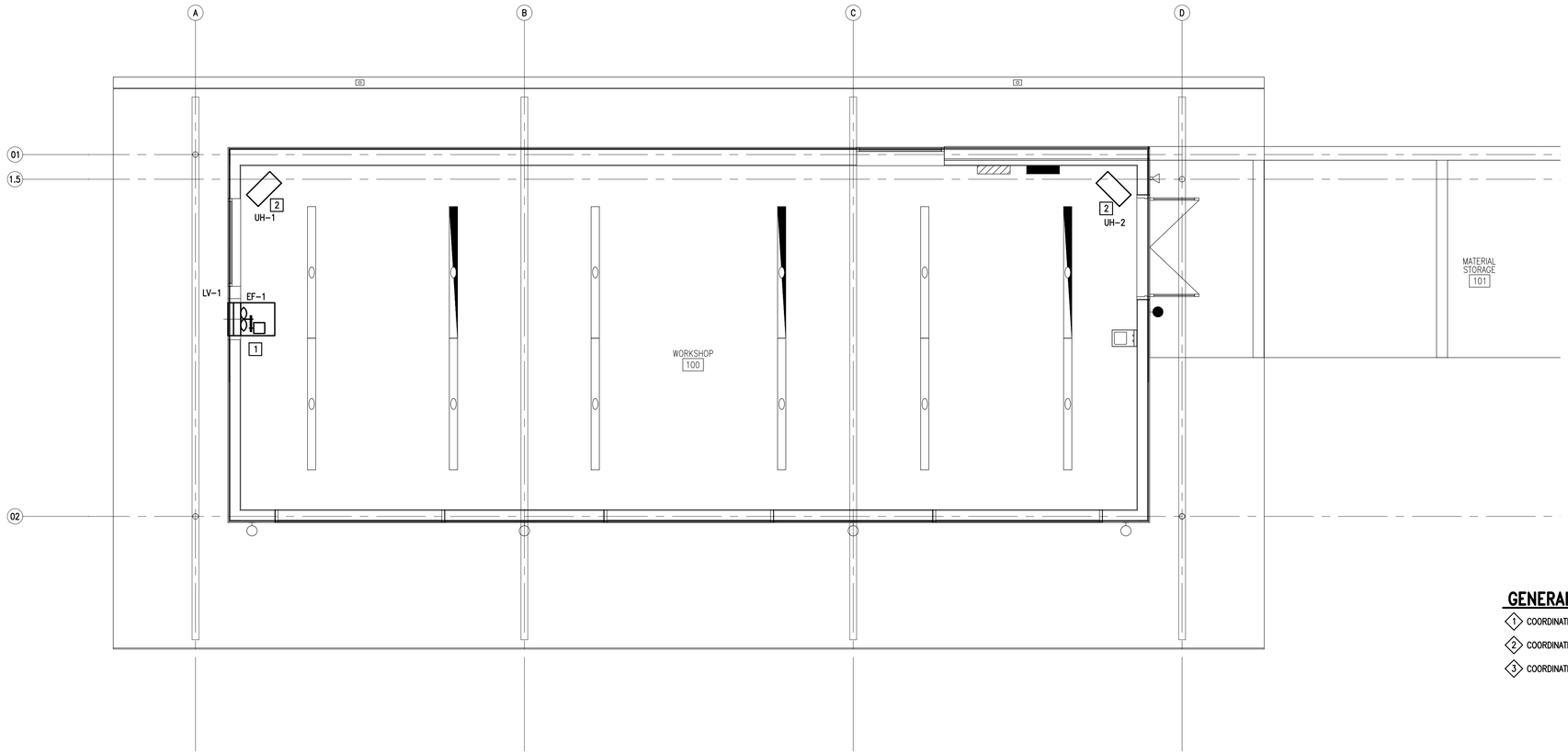
scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

PLUMBING FLOOR PLAN – MAINTENANCE BUILDING – NEW WORK

MBP1.0

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NORTH CAROLINA
SEAL 18043
ENGINEER



MECHANICAL FLOOR PLAN – MAINTENANCE BUILDING – NEW WORK [3]

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

LEGEND

LEGEND NOTES:

1. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.

POINT OF CONNECTION

REVISION DESIGNATION

NEW WORK NOTE DESIGNATION

GENERAL NOTE DESIGNATION

THERMOSTAT W/ UNIT DESIGNATION

AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FOOT OR FEET
HP	HORSE POWER
HZ	FREQUENCY
IN	INCH(–ES)
LB(S)	POUND(S)
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
OA	OUTDOOR AIR
PD	PRESSURE DROP
PSI	POUND PER INCH
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SQ	SQUARE
SP	STATIC PRESSURE
TC	TOTAL CAPACITY
VOL	VOLUME
WB	WET BULB

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK.
3. COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.

NEW WORK NOTES

[1] PROVIDE SIDEWALL PROPELLER EXHAUST FAN AND LOUVER AS SCHEDULED. PROVIDE EXHAUST DUCT, HANGERS AND SUPPORT AND CONNECT TO LOUVER. EXHAUST FAN SHALL BE INDIVIDUALLY SWITCHED. COORDINATE SWITCHING WITH ELECTRICAL CONTRACTOR. MOUNT UNITS PER ARCHITECT'S DETAILS. COORDINATE LOCATION WITH ARCHITECT AND ENGINEER.

[2] PROVIDE ELECTRIC UNIT HEATER AS SCHEDULED. SET UNIT HEATER TO ENERGIZE AT 55 DEGREES. COORDINATE WITH ELECTRICAL CONTRACTOR. MOUNT UNIT 9'–0" ABOVE FINISHED FLOOR.

[3] COORDINATE ALL EQUIPMENT LOCATION WITH ENGINEER IN THE FIELD.

ELECTRIC UNIT HEATER SCHEDULE

MARK	CAPACITY		FAN		POWER					DESCRIPTION	REMARKS
	INPUT (kW)	OUTPUT (MBH)	SA (CFM)	MAX (RPM)	MAX HP	VOLTS	PHASE	MCA	MOCP		
EUH–1	5.0	17.1	400	1,550	1/25	277	1	20.8	30	UNIT HEATER	SIMILAR TO MARKELL 5100 SERIES
EUH–2	5.0	17.1	400	1,550	1/25	277	1	20.8	30	UNIT HEATER	SIMILAR TO MARKELL 5100 SERIES

1– PROVIDE CEILING MOUNTING SUPPORT BRACKET.

FAN SCHEDULE

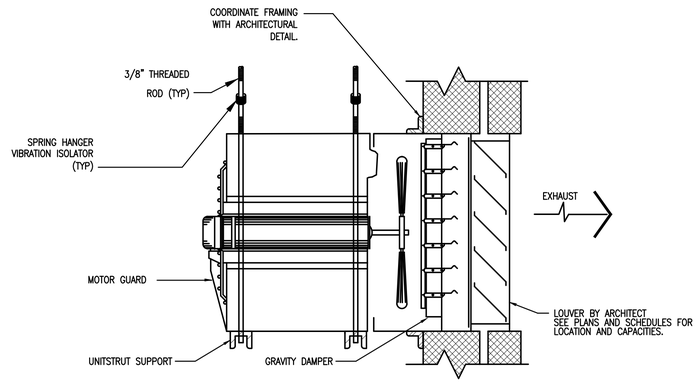
MARK	TYPE	AIR FLOW (CFM)	ESP (IN H2O)	MAX (RPM)	POWER			REMARKS
					MAX HP	VOLTS	PHASE	
EF–1	WALL PROPELLER FAN	1,750	0.25	862	1/2	277	1	MAINTENANCE SHOP EXHAUST BASIS OF DESIGN: COOK 24XMW

NOTES:
1. THE ESP NOTED IS FOR DUCTWORK, LOUVER OR ROOF HOOD ONLY. ADD ALL INTERNAL ACCESSORIES (SUCH AS: BACKDRAFT DAMPERS & SOUND ATTENUATORS) TO THE STATIC PRESSURE OF THE FAN.
2. EXHAUST FAN SIZE SHALL MATCH LOUVER SIZE.

LOUVER SCHEDULE

MARK	MAX AIR FLOW (CFM)	SIZE W x H (IN)	MAX PD (IN H2O)	FREE AREA (SQ FT)	MOUNTING HT (FT)	LOCATION	DUTY	REMARKS
LV–1	1,750	30 X 30	0.10	3.27	AS HIGH AS POSSIBLE	WEST WALL	EXHAUST	NOTE 1

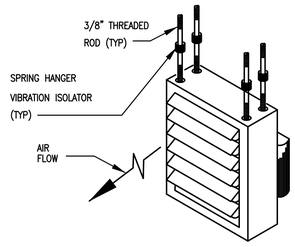
NOTE:
1. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS. ARCHITECT TO SPECIFY LOUVER.



SIDEWALL PROPELLER FAN DETAIL

MD-047

NO SCALE



ELECTRIC UNIT HEATER DETAIL

MD-097

NO SCALE

GRAPHIC SCALE

1/4" = 1'-0"

2' 0 2' 4' 8'

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tarheel Court
Elizabeth City, NC
Phone: 252.488.3303
Email: hdm@mindspring.com
NC LICENSE NO. C-1836
VA LICENSE NO. 0407003711

HDM#25008 09/24/26

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704 N PERSON STREET
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Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

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scale as noted
IFB

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

MB.M1.0
MECHANICAL FLOOR PLAN – MAINTENANCE BUILDING – NEW WORK

N:\2025\25008\PME\25008-DTMB40.0.dwg, 9/24/2026 4:59:37 PM, rvinall

EXISTING PANELBOARD APPH SCHEDULE

BUSS RATING: 400A 400A MCB, 277/480 V, 3 PHASE, 4 WIRE, 45 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
LTS PUMP HOUSE	1.10			20 1P EXIST	1	A	2	20 1P EXIST				SPARE
SPARE				20 1P EXIST	3	B	4	20 1P EXIST				SPARE
SPARE				20 1P EXIST	5	C	6	20 1P EXIST				SPARE
SPACE					7	A	8					SPACE
SPACE					9	B	10	20 3P EXIST				POWER SCOUT METER
SPACE					11	C	12					
SPACE					13	A	14					
SPACE					15	B	16					SPACE
SPACE					17	C	18					SPACE
PUMP PWP-2A	3.40			20 3P EXIST	19	A	20	20 3P EXIST	3.40			PUMP PWP-2B
		3.40			21	B	22			3.40		
			3.40		23	C	24				3.40	
PUMP RWP-1A	52.00			90 3P EXIST	25	A	26	90 3P EXIST	52.00			PUMP RWP-1B
		52.00			27	B	28			52.00		
			52.00		29	C	30				52.00	
PUMP PWP-1A	52.00			90 3P EXIST	31	A	32	90 3P EXIST	52.00			PUMP PWP-1B
		52.00			33	B	34			52.00		
			52.00		35	C	36				52.00	
PANEL PHLA VIA TRANSFORMER T-5	29.00			70 3P EXIST	37	A	38	80 3P NEW	44.23			PANEL MBH (MAINTENANCE BUILDING) * PROVIDE MATCHING BREAKER.
		25.10			39	B	40			37.90		
			23.00		41	C	42				25.50	
TOTAL	137.50	132.50	130.40						151.63	145.30	132.90	TOTAL
TOTAL CONNECTED AMPS				A: 290			B:278			C: 264		

PANELBOARD PHLA SCHEDULE

BUSS RATING: 225 150 MLB, 120/208 V, 3 PHASE, 4 WIRE, 22 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
CONTROLLER RWUV-1B	1.00			20 1P EXIST	1	A	2	20 1P EXIST	4.50			REC PUMP HOUSE
CONTROLLER RWUV-1A		1.00		20 1P EXIST	3	B	4	20 1P EXIST		4.50		REC PUMP HOUSE
REC DOCK			1.50	20 1P EXIST	5	C	6	20 1P EXIST			5.00	GEN BATTERY CHARGER
AHU-4	20.00			30 2P EXIST	7	A	8	30 2P EXIST	4.80			GEN ALT HEATER
		20.00			9	B	10			4.80		
HP-4			9.80	20 2P EXIST	11	C	12	30 2P EXIST			14.40	GEN JACKET HEATER
	9.80				13	A	14		14.40			
EDH-1		11.10		20 3P EXIST	15	B	16	20 1P EXIST		9.80		SUMP PUMP
			11.10		17	C	18	20 1P EXIST			5.00	SUMP PUMP CONTROLLER
	11.10				19	A	20	20 1P EXIST	1.00			CONTROLLER PWF-1
AB-1B		6.00		20 1P EXIST	21	B	22	20 1P EXIST		1.00		CONTROLLER PWF-2
AB-1A			6.00	20 1P EXIST	23	C	24	20 1P EXIST			1.00	CONTROLLER RWF-1
REC SECURITY DROP * PROVIDE MATCHING BREAKER.	5.00			20 1P NEW	25	A	26	80 3P EXIST	20.00			SUB PANEL IN GENERATOR ROOM
REC SECURITY POLE CAMERAS * PROVIDE MATCHING BREAKER.		5.00		20 1P NEW	27	B	28			20.00		
SPACE					29	C	30				20.00	
SPACE					31	A	32					SPACE
SPACE					33	B	34					SPACE
SPACE					35	C	36					SPACE
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE
TOTAL	46.90	43.10	28.40						44.70	40.10	45.40	TOTAL
TOTAL CONNECTED AMPS				A: 91.6			B:83.2			C: 73.8		

PANELBOARD MBH SCHEDULE

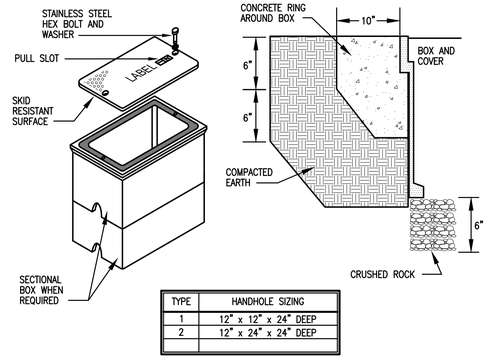
BUSS RATING: 225A 80A MCB, 277/480 V, 3 PHASE, 4 WIRE, 65 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
LTS INTERIOR	4.00			20 1P	1	A	2	20 3P	8.23			PANEL MBL VIA TRANSFORMER T-MBL
LTS EXTERIOR		2.00		20 1P	3	B	4			3.90		
EXHAUST FAN EF-1			2.00	20 1P	5	C	6				6.50	
UNIT HEATER UH-1	19.00			30 1P	7	A	8	30 3P	15.00			WELL HOUSE PUMP
UNIT HEATER UH-2		19.00		30 1P	9	B	10			15.00		
SPARE				20 1P	11	C	12				15.00	
SPARE				20 1P	13	A	14	20 1P				SPARE
SPARE				20 1P	15	B	16	20 1P				SPARE
SPARE				20 1P	17	C	18	20 1P				SPARE
TOTAL	23.00	21.00	2.00						23.23	18.90	21.50	TOTAL
TOTAL CONNECTED AMPS				A: 47			B:40			C: 24		

PANELBOARD MBL SCHEDULE

BUSS RATING: 60A 45A MCB 120/208 V, 3 PHASE, 4 WIRE, 22 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
REC MAINTENANCE BUILDING	9.00			20 1P	1	A	2	20 2P	5.00			PAVILION DISCONNECT SWITCH
REC MAINTENANCE BUILDING		6.00		20 1P	3	B	4			3.00		
WATER HEATER MAINTENANCE BUILDING			15.00	20 1P	5	C	6	20 1P				SPARE
SECURITY DROP	5.00			20 1P	7	A	8	20 1P				SPARE
SPARE				20 1P	9	B	10	20 1P				SPARE
SPARE				20 1P	11	C	12	20 1P				SPARE
TOTAL	14.00	6.00	15.00						5.00	3.00	0.00	TOTAL
TOTAL CONNECTED AMPS				A: 19			B:9			C: 15		



TYPE	HANDHOLE SIZING
1	12" x 12" x 24" DEEP
2	12" x 24" x 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA FOR HEAVY DUTY, H20 LOADING.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL RELATIVE TO EQUIPMENT IN HANDHOLE. COORDINATE WITH ENGINEER.

COMPOSITE/FIBERGLASS HANDHOLE

E2-001

NO SCALE

BUILDING LOAD SUMMARY

LOAD	CONN LOAD (KVA) A	B	C	DEMAND FACTOR	DEMAND LOAD (KVA) A	B	C
EXISTING LOAD	100.0	100.0	100.0	125%	125.0	125.0	125.0
PANEL MBH (NEW LOAD)	12.0	11.0	8.0	SEE LOAD SUMMARY	12.0	11.0	8.0
TOTAL (KVA)	112.0	111.0	108.0		137.0	136.0	133.0
				CALCULATED AMPS:	490	488	472
				VOLTAGE:	277/480 V		
				SERVICE SIZE:	600 AMP		

PANEL MBH LOAD SUMMARY

LOAD SERVED	CONN LOAD (KVA) A	B	C	DEMAND FACTOR	DEMAND LOAD (KVA) A	B	C
INTERIOR LIGHTING *	1.11	0.55	0.00	125% **	1.39	0.69	0.00
HVAC	5.26	5.26	0.55	100% ****	5.26	5.26	0.55
EQUIPMENT	4.16	4.16	4.16	100%	4.16	4.16	4.16
PANEL MBL	2.28	1.08	1.80	SEE LOAD SUMMARY	2.28	1.08	1.80
TOTAL (KVA)	12.81	11.05	6.51		13.08	11.19	6.51
				AMPS	47.23	40.40	23.50
				VOLTAGE	277/480V		
				SERVICE SIZE	80 AMP		

* BASED ON NEC TABLE 220.12
** CONTINUOUS LOAD PER NEC
*** BASED ON NEC TABLE 220.44
**** FLA PLUS 25% OF LARGEST MOTOR LOAD
***** BASED ON NEC TABLE 220.56
****** BASED ON NEC TABLE 660.6 (A),(B)

PANEL MBL LOAD SUMMARY

LOAD SERVED	CONN LOAD (KVA) A	B	C	DEMAND FACTOR	DEMAND LOAD (KVA) A	B	C
RECEPTACLES	1.08	0.72	0.00	FIRST 10 KVA @ 100% REMAINDER KVA OVER 10 KVA @ 50%	1.08	0.72	0.00
WATER HEATER	0.00	0.00	1.80	100%	0.00	0.00	1.80
EQUIPMENT	1.20	0.36	0.00	100%	1.20	0.36	0.00
TOTAL (KVA)	2.28	1.08	1.80		2.28	1.08	1.80
				AMPS	19.00	9.00	15.00
				VOLTAGE	120/208V		
				SERVICE SIZE	45 AMP		

* BASED ON NEC TABLE 220.12
** CONTINUOUS LOAD PER NEC
*** BASED ON NEC TABLE 220.44
**** FLA PLUS 25% OF LARGEST MOTOR LOAD
***** BASED ON NEC TABLE 220.56
****** BASED ON NEC TABLE 660.6 (A),(B)

LEGEND

LEGEND NOTES:

1. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED UNDERGROUND AS NOTED.
2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.
4. CAPITAL LETTER BESIDE FIXTURE SYMBOL DENOTES FIXTURE TYPE WITH REFERENCE TO FIXTURE SCHEDULE.
5. MOUNTING HEIGHTS GIVEN BELOW SHALL BE FOLLOWED UNLESS NOTED ON THE FLOOR PLANS, SCHEDULES OR SHOWN DIFFERENT IN THE ARCHITECTURAL ELEVATIONS. ALL HEIGHTS ARE TO CENTER OF THE DEVICE.
6. "WP" SUBSCRIPT INDICATES WEATHER PROOF ENCLOSURE EQUAL TO TAYMAC MX3200 OR ENGINEER APPROVED EQUAL.

- CEILING MOUNTED LIGHTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
- WALL MOUNTED LIGHTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
- WALL MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. THE EMERGENCY BATTERY PACK SHALL BE CONNECTED AHEAD OF SWITCH/TIMECLOCK.
- SPOT OR FLOODLIGHT. SEE LIGHT FIXTURE SCHEDULE.
- EXIT LIGHT, ARROW INDICATES DIRECTION, TWO ARROWS INDICATE DOUBLE FACE. CONNECT AHEAD OF SWITCH.
- LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. THE EMERGENCY BATTERY PACK SHALL BE CONNECTED AHEAD OF SWITCH. SEE LIGHT FIXTURE SCHEDULE.
- S SINGLE POLE SWITCH, 20A, 48" AFF.
- S_M MOTOR RATED SWITCH WITH OVERLOADS.
- OS CEILING MOUNTED OCCUPANCY SENSOR
- DUPLEX RECEPTACLE, 20A, 125 VOLTS, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED.
- DUPLEX RECEPTACLE WITH GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION, 20A, 125 VOLT, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED.
- (E) EQUIPMENT CONNECTION
- 1 REVISION DESIGNATION
- # NEW WORK NOTE DESIGNATION
- ◇ GENERAL NOTE
- BRANCH CIRCUIT (CONDUIT AND WIRE) RUN CONCEALED IN WALL OR ABOVE CEILING UNLESS NOTED OTHERWISE. WIRE SIZE #12 UNLESS NOTED OTHERWISE.
- L-1 INDICATES CIRCUIT HOMERUN TO PANEL. LETTER & NUMBERS INDICATE PANEL DESIGNATION & CIRCUIT BREAKER NUMBER.
- T TRANSFORMER, KVA AS NOTED
- PANELBOARD, 120/208 VOLTS, SEE SCHEDULE
- PANELBOARD, 277/480 VOLTS, SEE SCHEDULE

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type) See Drawing
lamp type required in fixture See Drawing
number of lamps in fixture See Drawing
ballast type used in the fixture See Drawing
number of ballasts in fixture See Drawing
total wattage per fixture See Drawing
total interior wattage specified vs. allowed (whole building or space by space)
specified: 456 watts, allowed: 1,815 watts
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)

☐C406.2 More Efficient HVAC Equipment Performance
■C406.3 Reduced Lighting Power Density
☐C406.4 Enhanced Digital Lighting Controls
☐C406.5 On-Site Renewable Energy
☐C406.6 Dedicated Outdoor Air System
☐C406.7 Reduced Energy Use in Service Water Heating

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MBE0.1 ELECTRICAL SCHEDULES

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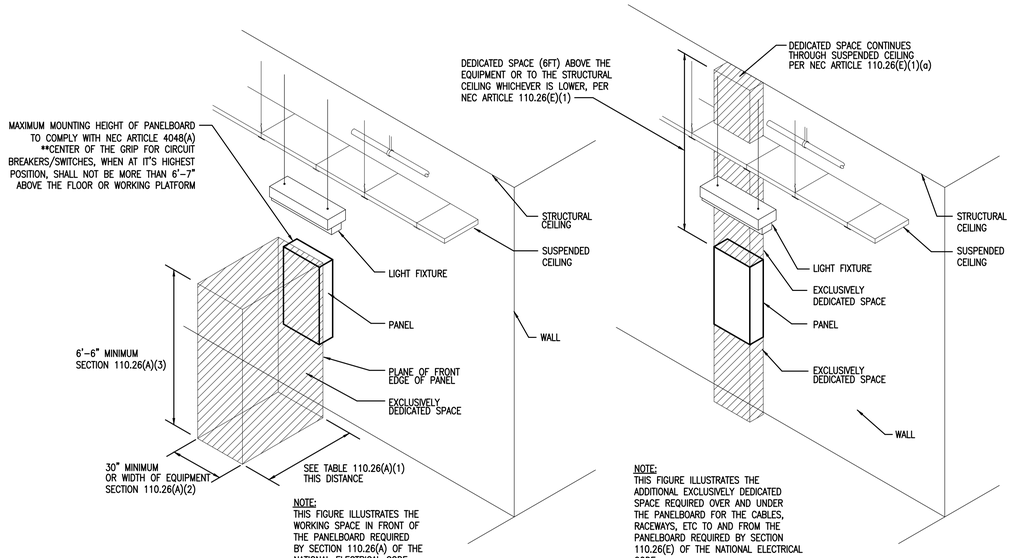


NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE PANELBOARD REQUIRED BY SECTION 110.26(A) OF THE NATIONAL ELECTRICAL CODE

NOTE:
THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE PANELBOARD FOR THE CABLES, RACEWAYS, ETC TO AND FROM THE PANELBOARD REQUIRED BY SECTION 110.26(E) OF THE NATIONAL ELECTRICAL CODE

TABLE 110.26(A)(1) WORKING CLEARANCES

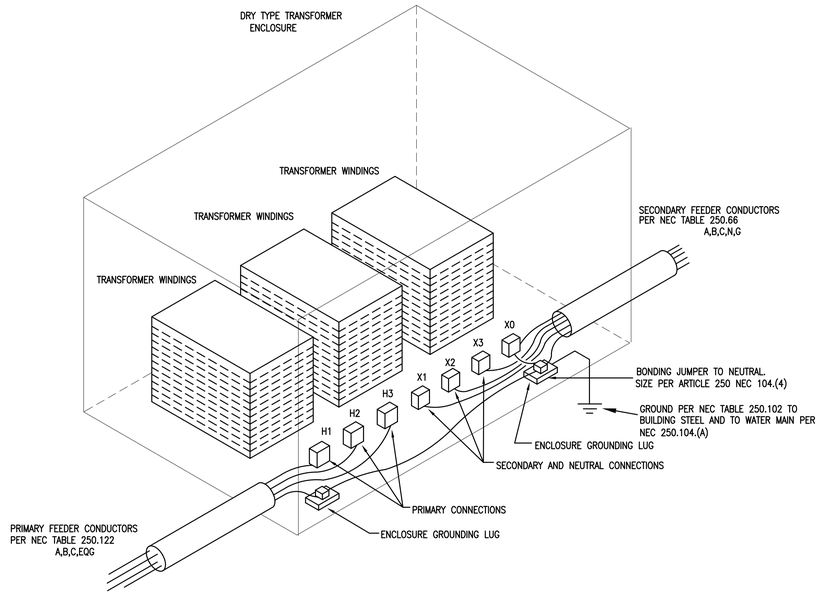
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE (FEET) CONDITION: 1	2	3
0–150	3	3	3
151–600	3	3 1/2	4
600–1000	3	4	5

WHERE THE "CONDITIONS" ARE AS FOLLOWS:
1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS INSULATED WIRE OR INSULATE BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. 2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. 3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTES:
NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE

ELECTRICAL EQUIPMENT WORK SPACE REQUIREMENTS DETAIL PER NEC 110.26(A)

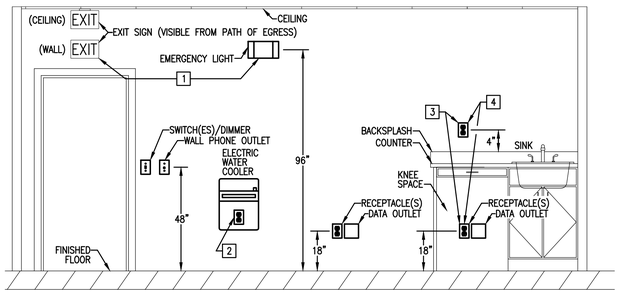
NO SCALE



DRY TRANSFORMER GROUNDING DETAIL

NOT TO SCALE

ED-016



ELECTRICAL DEVICE INSTALLATION DETAIL 5 6

NO SCALE

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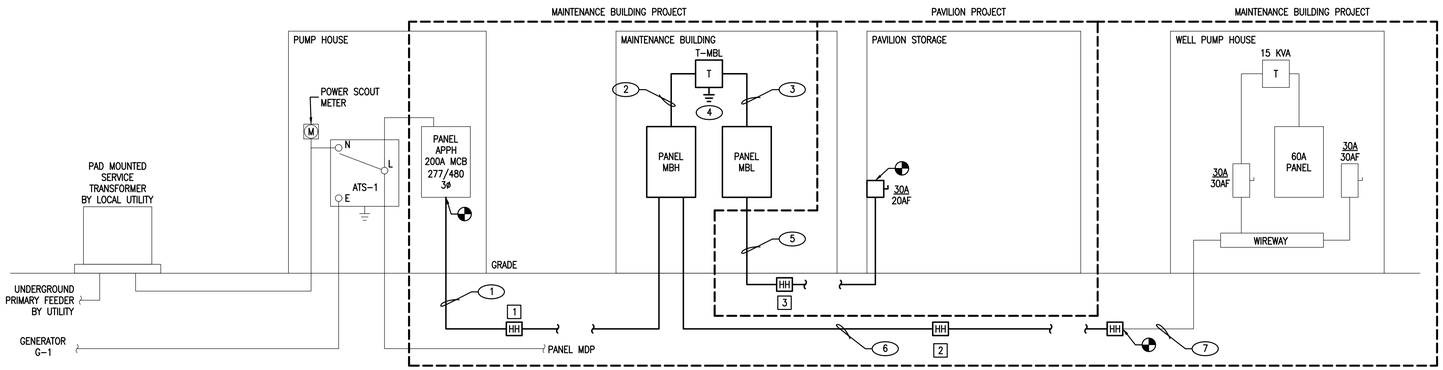
ELECTRICAL DEVICE INSTALLATION DETAIL NOTES

1. ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
2. RECEPTACLE SHALL BE GFCI TYPE. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
3. COORDINATE ALL RECEPTACLE LOCATIONS NEAR MILLWORK WITH MILLWORK BEFORE ROUGH IN.
4. ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE.
5. RECEPTACLE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
6. ALL MOUNTING HEIGHTS GIVEN ARE TO CENTER OF DEVICE. UNLESS NOTED OTHERWISE.



POWER RISER DIAGRAM (PARTIAL)

NO SCALE

POWER RISER DIAGRAM NOTES

1. PROVIDE HANDHOLE. SEE SITE PLAN. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "MAINTENANCE BUILDING POWER SERVICE".
2. PROVIDE HANDHOLE. SEE SITE PLAN. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "WELL PUMP HOUSE BUILDING POWER SERVICE".
3. PROVIDE HANDHOLE. SEE SITE PLAN. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "PAVILION BUILDING POWER SERVICE".

TRANSFORMER SCHEDULE

MARK	RATING (KVA)	480V PRIMARY (DELTA) 3ø, 3 WIRE			120/208V SECONDARY (Y) 3ø, 4 WIRE			
		RATING (AMPS)	PRIMARY FEEDERS	MOCP (AMPS)	RATING (AMPS)	SECONDARY FEEDERS	MOCP (AMPS)	GROUNDING ELECTRODE CONDUCTOR
T-MBL	15	18	3#12, 1#12G IN 3/4" CONDUIT	20	41.6	4#8, 1#8G IN 3/4" CONDUIT	45	1#8G IN 3/4" CONDUIT

NOTES: FEEDER SIZED FOR NO MORE THAN 100 FEET.

FEEDER SCHEDULE

MARK	TYPE	DESCRIPTION	RATING (AMPS)
1	FEEDER (1000 FT)	4#2, 1#10G IN 1 1/4" CONDUIT	40
2	FEEDER	SEE TRANSFORMER SCHEDULE	–
3	FEEDER	SEE TRANSFORMER SCHEDULE	–
4	GROUND	SEE TRANSFORMER SCHEDULE	–
5	FEEDER (300 FT)	3#6, 1#12G IN 1" CONDUIT	20
6	FEEDER (250 FT)	4#6, 1#10G IN 1" CONDUIT	30
7	EXISTING FEEDER	4#6, 1#10G IN 1" CONDUIT	30

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MBE0.2 ELECTRICAL DETAILS

09/24/26

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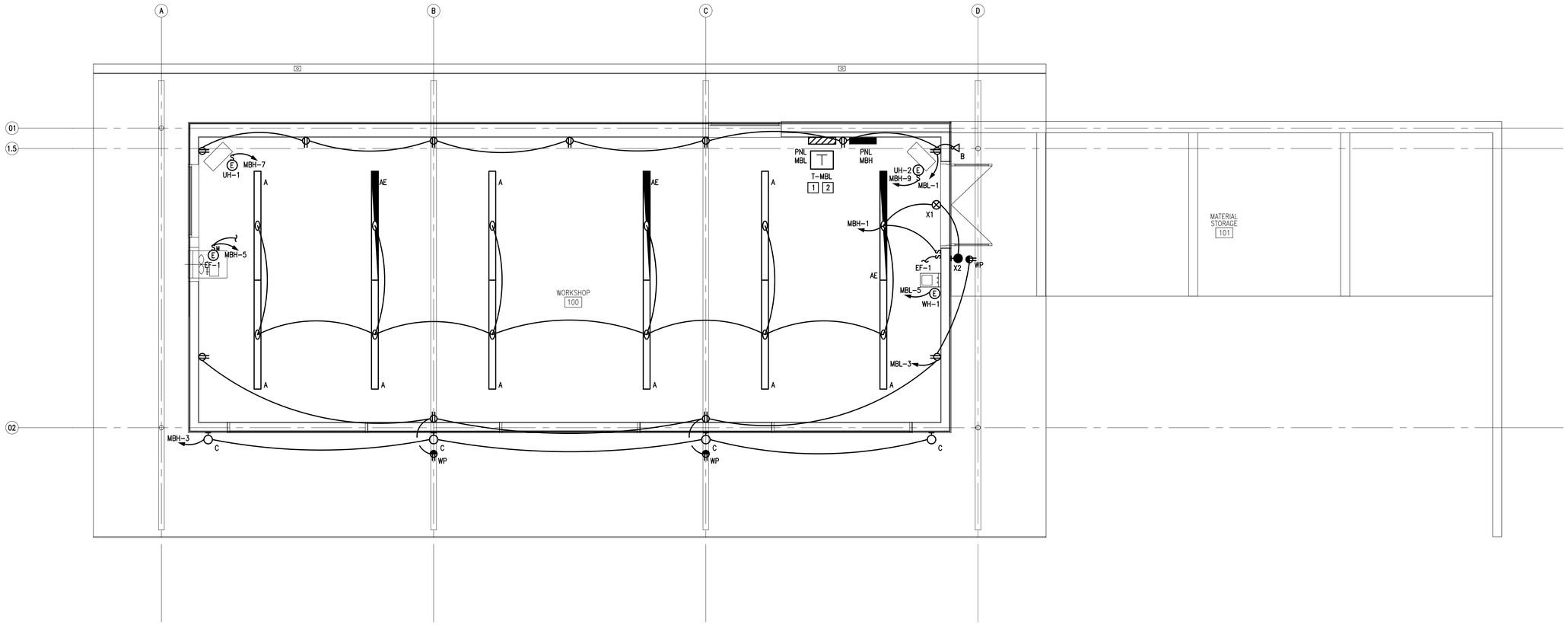

ELECTRICAL FLOOR PLAN – MAINTENANCE BUILDING – NEW WORK

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

NEW WORK NOTES

1. PROVIDE ALL REQUIRED MATERIALS TO MOUNT TRANSFORMER ABOVE PANEL.
2. COORDINATE LOCATION OF PANELS AND TRANSFORMER WITH PLUMBING CONTRACTOR AND ENGINEER PRIOR TO BEGINNING ANY WORK.

LIGHT FIXTURE SCHEDULE ②③⑦

TYPE	MANUFACTURER	CATALOG NO.	LAMPS		VOLTAGE	WATTS	BALLAST		MOUNTING	DESCRIPTION	NOTES
			NO.	TYPE		FIXTURE	NO.	TYPE			
A	LITHONIA	TZL1D-L96--10000LM-FST-MVOLT-35K-80CRI-LBOZU-WH	–	LED	277	38	–	–	SUSPENDED	8' STRIP LIGHT W/OCCUPANCY SENSOR	④
AE											①④
B	WAC	WS-W230302-30-1085X2-BZ	–	LED	120	10	–	–	WALL	EXTERIOR SPOT LIGHT	⑤⑥
C	BEGA	B66698-K4-BRZ	–	LED	277	13	–	–	WALL	EXTERIOR WALL LIGHT	⑤⑥
X1	CHLORIDE	ER46LIWR	–	LED	277	–	–	–	UNIVERSAL	EXIT LIGHT	
X2	LITHONIA	WDGE1-LED-P0-40K-80CRI-VF-MVOLT-E4WH-DDBXD	–	LED	277	3	–	–	WALL	EGRESS ONLY LIGHT	⑤

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK WHERE INDICATED ON PLANS.
2. LIGHT FIXTURE SUBSTITUTIONS WILL BE CONSIDERED DURING THE BIDDING PHASE UNTIL SEVEN (7) DAYS PRIOR TO THE RECEIPT OF BIDS. NO SUBSTITUTIONS WILL BE CONSIDERED AFTER SEVEN (7) DAYS PRIOR TO THE RECEIPT OF BIDS. SEE INSTRUCTION TO BIDDERS, PARAGRAPH 4, SUBSTITUTIONS.
3. PROVIDE ALL REQUIRED MOUNTING MATERIALS AND ACCESSORIES TO MOUNT FIXTURE AT HEIGHT INDICATED. COORDINATE HEIGHT WITH ARCHITECT AND ENGINEER.
4. MOUNT FIXTURE 9'-6" ABOVE FINISHED FLOOR.
5. MOUNT FIXTURE 7'-6" ABOVE FINISHED GRADE.
6. PROVIDE WITH PHOTOCELL.
7. COORDINATE ALL LIGHT FIXTURE LOCATIONS AND CONTROLS WITH ARCHITECT AND ENGINEER IN FIELD.

GRAPHIC SCALE

1/4" = 1'-0" 2' 0 2' 4' 8'

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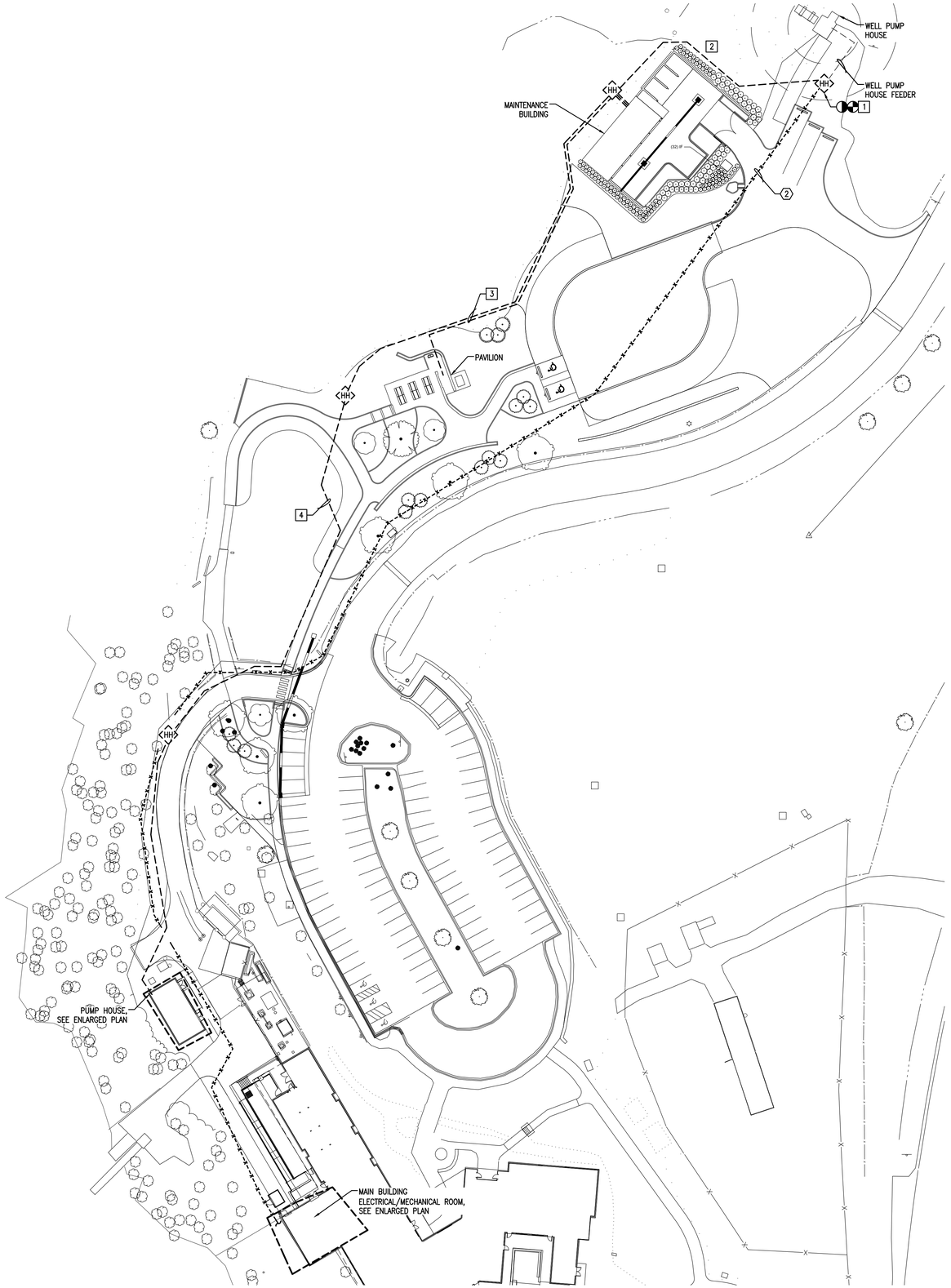
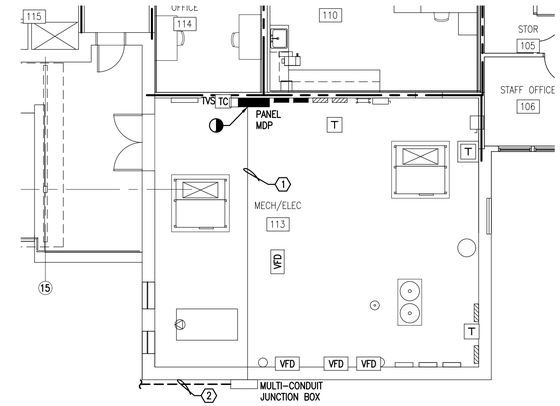
MBE1.0

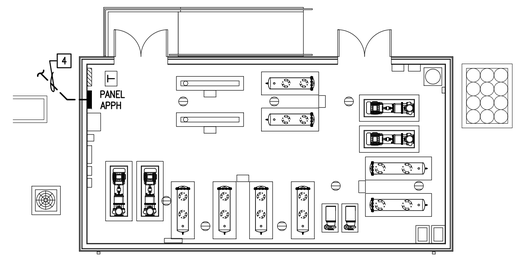
ELECTRICAL FLOOR PLAN – MAINTENANCE BUILDING – NEW WORK



ELECTRICAL SITE PLAN
SCALE: 1/4" = 1'-0"



ELECTRICAL ENLARGED PLAN – MAIN BUILDING ELECTRICAL/MECHANICAL ROOM
SCALE: 1/8" = 1'-0"



ELECTRICAL ENLARGED PLAN – PUMP HOUSE
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. DISCONNECT WELL PUMP HOUSE FEEDER FROM PANEL MDP AND REMOVE FEEDER BACK TO POINT INDICATED ON SITE PLAN. BREAKER IN PANEL SHALL BECOME SPARE. CONDUIT EXISTING TO REMAIN.
2. REMOVE WELL PUMP HOUSE FEEDER WITH ASSOCIATED UNDERGROUND CONDUIT BACK TO POINT INDICATED.

NEW WORK NOTES

1. INTERCEPT EXISTING WELL PUMP HOUSE FEEDER AND PROVIDE HANDHOLE (TYPE 2) AT POINT OF INTERSECTION.
2. APPROXIMATE ROUTING OF NEW FEEDER FOR WELL PUMP HOUSE TO BE CONNECTED TO EXISTING FEEDER IN HANDHOLE. SEE RISER DIAGRAM.
3. APPROXIMATE ROUTING OF FEEDER AND HANDHOLES (TYPE 1) FOR PAVILION. SEE RISER DIAGRAM.
4. APPROXIMATE ROUTING OF FEEDER AND HANDHOLES (TYPE 1) MAINTENANCE BUILDING. SEE RISER DIAGRAM.

NOTE:
* ALL EXISTING FEEDERS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE FIELD INVESTIGATION RESULTS AND THESE DRAWINGS.

NOTE:
* COORDINATE NEW HANDHOLES AND FEEDER ROUTINGS WITH ENGINEER PRIOR TO BEGINNING ANY WORK.

GRAPHIC SCALE
1/8" = 1'-0"
4' 0 4' 8' 16'

GRAPHIC SCALE
1" = 40'
40' 20' 0 20' 40' 80'

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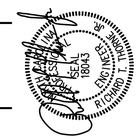

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Landscape/Civil — KIMLEY-HORN & ASSOCIATES, INC.
Structural — LYSAGHT & ASSOCIATES
PME/FIRE — HDM ASSOCIATES, INC.
Cost Estimation — LYSAGHT & ASSOCIATES

MBE2.0
ELECTRICAL SITE PLAN
HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603
10 01 26
scale as noted
IFB

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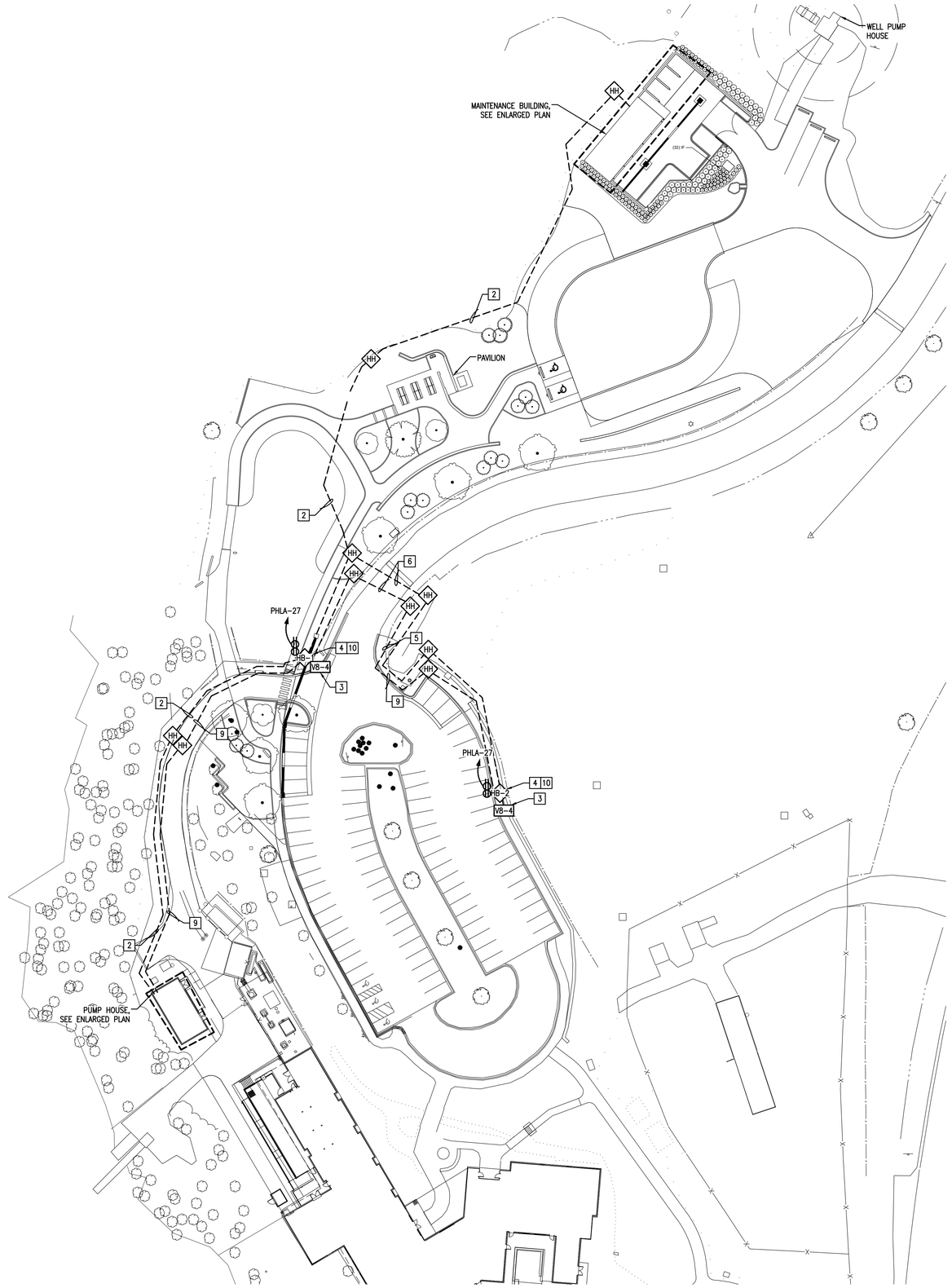
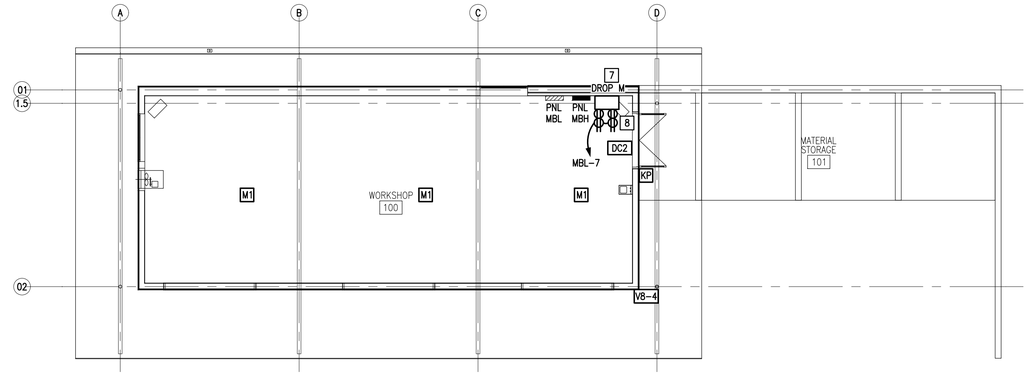


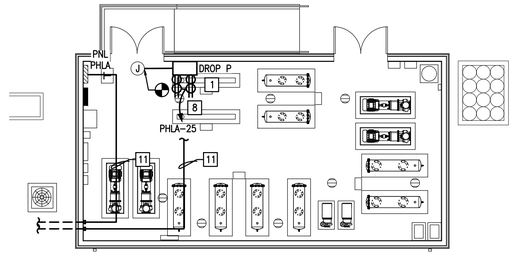
ELECTRICAL SITE PLAN – SECURITY INFRASTRUCTURE

SCALE: 1" = 40'-0"



ELECTRICAL ENLARGED FLOOR PLAN – MAINTENANCE BUILDING – SECURITY INFRASTRUCTURE

SCALE: 1/8" = 1'-0"



ELECTRICAL ENLARGED PLAN – PUMP HOUSE – SECURITY INFRASTRUCTURE

SCALE: 1/8" = 1'-0"

NEW WORK NOTES

1. APPROXIMATE LOCATION OF SECURITY DROP P (PUMP HOUSE). PROVIDE 1" CONDUIT WITH PULLWIRE FROM EXISTING DOOR CONTACTOR JUNCTION BOX TO SECURITY DROP. SEE DETAIL.
2. APPROXIMATE ROUTING OF 1 1/2" CONDUIT WITH PULLWIRE AND HANDHOLES (TYPE 1) FROM PUMP HOUSE TO MAINTENANCE BUILDING. LABEL HANDHOLE AS 'SECURITY FIBER'. ROUTING SHALL RUN PARALLEL TO ELECTRICAL SERVICE FEEDERS.
3. APPROXIMATE LOCATION OF POLE MOUNTED CAMERA. PROVIDE CONDUIT WITH PULLWIRE FROM ENCLOSURE TO CAMERA. SEE DETAIL.
4. PROVIDE ABOVE GROUND ENCLOSURE FOR ADJACENT POLE MOUNTED CAMERA. PROVIDE RECEPTALCE MOUNTED IN ENCLOSURE. SEE DETAIL.
5. APPROXIMATE ROUTING OF 1 1/2" CONDUIT WITH PULLWIRE AND HANDHOLES (TYPE 1) FROM PUMP HOUSE TO SECURITY ENCLOSURE. LABEL HANDHOLE AS 'SECURITY FIBER'.
6. ROUTE CONDUIT THRU EXISTING 4" CONDUIT SLEEVE UNDER ROAD.
7. APPROXIMATE LOCATION OF SECURITY DROP M (PUMP HOUSE). SEE DETAIL.
8. MOUNT RECEPTACLES IN ENCLOSURE. SEE DETAIL. COORDINATE WITH SECURITY CONTRACTOR.
9. APPROXIMATE ROUTING OF BRANCH CIRCUIT IN 1" CONDUIT AND HANDHOLES (TYPE 1) FROM PUMP HOUSE TO EXTERIOR SECURITY ENCLOSURES. LABEL HANDHOLE AS 'SECURITY POWER'. ROUTING SHALL RUN PARALLEL TO ELECTRICAL SERVICE FEEDERS AND SECURITY FIBER CONDUITS.
10. PROVIDE UNISTRUT SUPPORT RACK WITH ASSOCIATED CONCRETE BASE AND ACCESSORIES. SIZE AS REQUIRED TO SUPPORT EQUIPMENT INDICATED. SEE DETAIL. COORDINATE WITH ENGINEER.
11. ROUTE CONDUIT AS HIGH AS POSSIBLE ALONG STRUCTURE ABOVE, THEN DOWN WALL TO BELOW GRADE.

LEGEND (CONTINUED)

KP	KEY PAD. SEE DETAIL.
DROP	SECURITY DROP. SEE DETAIL.
M#	MOTION DETECTOR. SEE DETAIL.
DC#	DOOR CONTACT. SEE DETAIL.
V#	CAMERA. SEE DETAIL.

NOTE:

* COORDINATE ALL DEVICE AND EQUIPMENT LOCATION AND REQUIREMENTS WITH ARCHITECTURAL SHEETS, ENGINEER, SECURITY CONTRACTOR/CONSULTANT AND SECURITY CONSTRUCTION DOCUMENTS PRIOR TO BEGINNING ANY WORK.

NOTE:

* ALL EXISTING FEEDERS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE FIELD INVESTIGATION RESULTS AND THESE DRAWINGS.

NOTE:

* COORDINATE NEW HANDHOLES AND ROUTINGS WITH ENGINEER IN FIELD PRIOR TO BEGINNING ANY WORK.

GRAPHIC SCALE

1/8" = 1'-0"

4' 0 4' 8' 16'

GRAPHIC SCALE

1" = 40'

40' 20' 0 20' 40' 80'

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tethered Court
Elizabeth City, NC
Phone: 252-668-3003
Email: hdm@hdmdesigning.com
NC LICENSE NO. C-1836
VA LICENSE NO. 0407003711

HDM#25008 09/24/26

Consultants
Landscape/Civil KIMLEY-HORN & ASSOCIATES, INC.
Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

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RALEIGH NC 27604
www.insitustudio.us

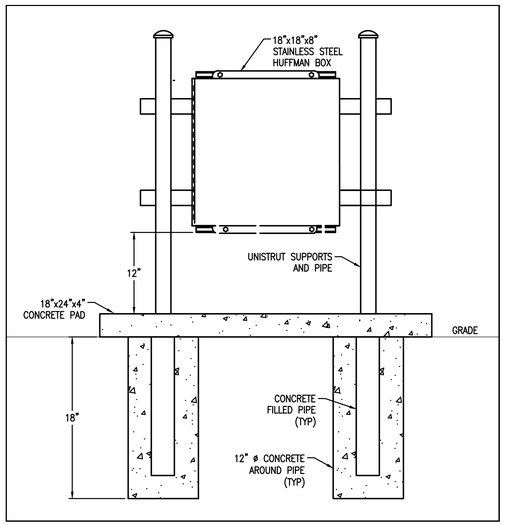
MBE3.0

ELECTRICAL SITE PLAN

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

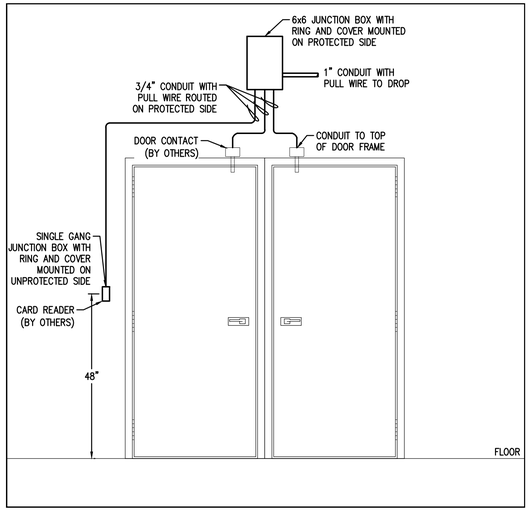
10 01 26
scale as noted

IFB



UNISTRUT SUPPORT FOR ENCLOSURE DETAIL HB-1 HB-2

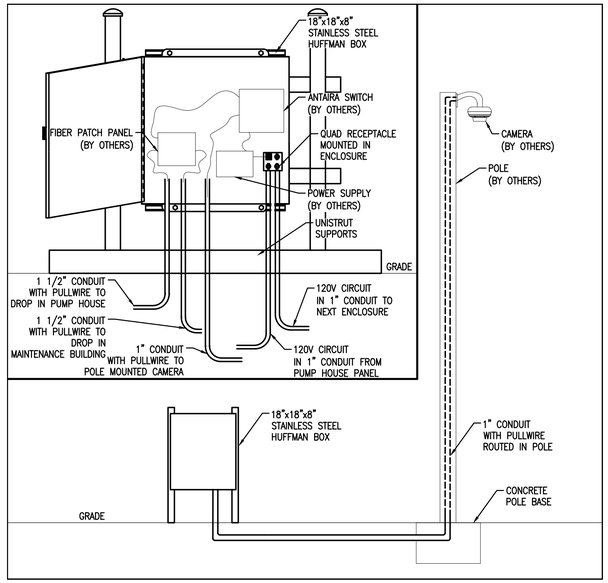
NO SCALE



DOUBLE DOOR CONTACT DETAIL W/KEYPAD DC2 KP

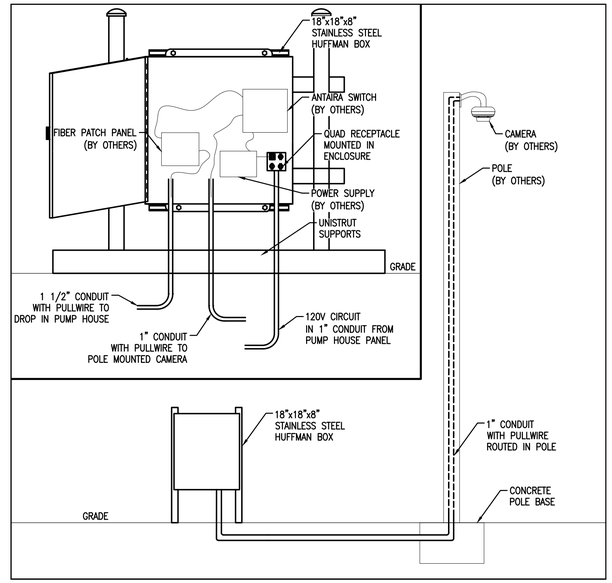
NO SCALE

* TYPICAL DETAIL LAYOUT. COORDINATE EXACT DOOR TYPE AND INSTALLATION REQUIREMENTS WITH ARCHITECT.



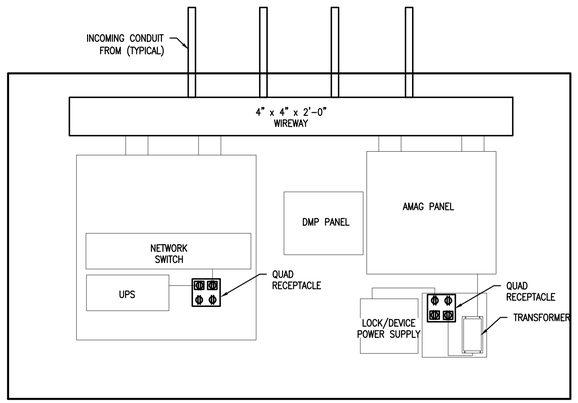
POLE MOUNTED CAMERA WITH ENCLOSURE DETAIL V8-4 HB-1

NO SCALE



POLE MOUNTED CAMERA WITH ENCLOSURE DETAIL V8-4 HB-2

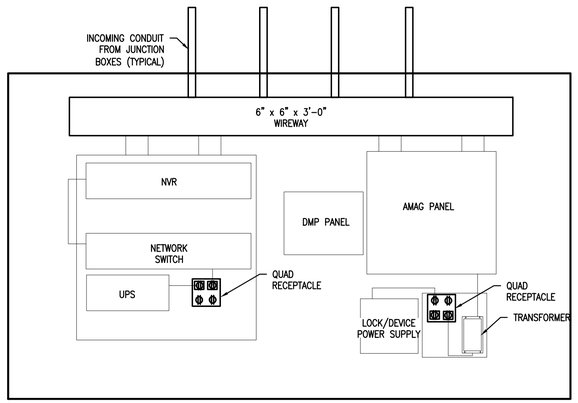
NO SCALE



SECURITY DROP P (PUMP HOUSE) DETAIL

NO SCALE

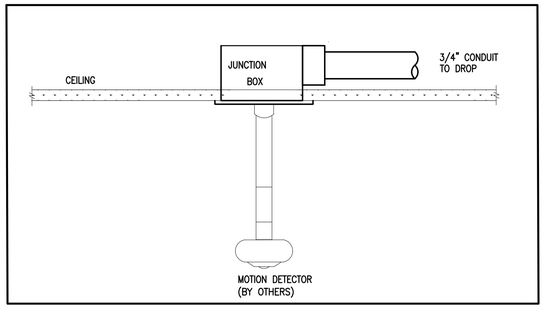
* TYPICAL DETAIL LAYOUT. COORDINATE EXACT LAYOUT AND INSTALLATION REQUIREMENTS WITH SECURITY CONTRACTOR.



SECURITY DROP M (MAINTENANCE BUILDING) DETAIL

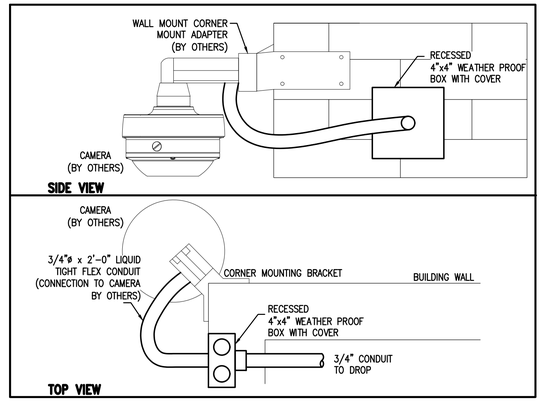
NO SCALE

* TYPICAL DETAIL LAYOUT. COORDINATE EXACT LAYOUT AND INSTALLATION REQUIREMENTS WITH SECURITY CONTRACTOR.



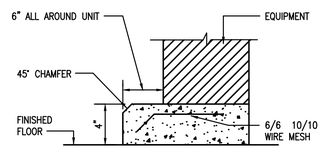
MOTION DETECTOR DETAIL M1

NO SCALE



CORNER BRACKET CAMERA DETAIL V8-4

NO SCALE



EQUIPMENT PAD DETAIL

NO SCALE

NOTE:

* COORDINATE ALL DEVICE AND EQUIPMENT LOCATION AND REQUIREMENTS WITH ARCHITECT, ENGINEER, SECURITY CONTRACTOR/CONSULTANT AND SECURITY CONSTRUCTION DOCUMENTS PRIOR TO BENINGING ANY WORK.

HDM ASSOCIATES, INC.
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Elizabeth City, NC
Phone: 252-668-3003
Email: hdma@mindspring.com
NC LICENSE NO. C-1836
VA LICENSE NO. 0407030711

09/24/26

HDMA25008

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Consultants
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Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

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scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

ELECTRICAL DETAILS

MBE3.1

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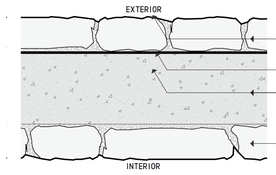
HISTORIC YATES MILL COUNTY PARK - POND PAVILION

Wake County Facilities Design & Construction

4620 Lake Wheeler Road
Raleigh, NC 27603

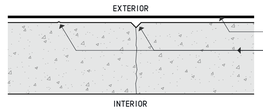
100% CONSTRUCTION DOCUMENTS

PARTITION SCHEDULE



042613 stone veneer - match existing visitor center
071113 fluid-applied waterproofing
033000 CIP concrete wall - REF structural drawings
042613 stone veneer - match existing visitor center

A EXTERIOR/SITE
stone veneer over CIP concrete



071113 fluid-applied waterproofing - below grade
033000 CIP concrete wall - REF structural drawings

B EXTERIOR
CIP concrete

RENDERING

VICINITY MAP

DRAWING LIST

SHEET #	SHEET NAME
PP.A0.0	COVER SHEET
PP.A0.1	APPENDIX B
PP.A0.2	APPENDIX B CONT'D + LIFE SAFETY PLAN
PP.A2.1	FLOOR PLAN + SCHEDULES + BUILDING SECTION
PP.A2.2	REFLECTED CEILING PLAN
PP.A2.3	ROOF PLAN
PP.A3.1	BUILDING ELEVATIONS
PP.S1.0	GENERAL STRUCTURAL NOTES
PP.S1.1	FOUNDATION PLAN
PP.S1.2	ROOF FRAMING PLAN
PP.S2.1	STRUCTURAL DETAILS
PP.P1.0	PLUMBING FLOOR PLAN - PAVILION - NEW WORK
PP.E0.1	ELECTRICAL SCHEDULES
PP.E0.2	ELECTRICAL DETAILS
PP.E1.0	ELECTRICAL FLOOR PLAN - PAVILION - NEW WORK

PROJECT CONTACT

PROPERTY OWNER:
WAKE COUNTY FACILITIES DESIGN AND CONSTRUCTION
336 FAYETTEVILLE ST.
RALEIGH, NC 27601
CONTACT: ERIC STAEHLE
PHONE: 919 418 0603
EMAIL: ERIC.STAEHLE@WAKE.GOV

PRIME/LANDSCAPE/CIVIL:
KIMLEY-HORN & ASSOCIATES, INC.
421 FAYETTVILLE ST., SUITE 600
RALEIGH, NC 27610
LANDSCAPE CONTACT: NICK KUHN, PLA
PHONE: 314 706 3104
EMAIL: NICK.KUHN@KIMLEY-HORN.COM
CIVIL CONTACT: JOHN KUZENSKI, PE
PHONE: 919 653 2990
EMAIL: JOHN.KUZENSKI@KIMLEY-HORN.COM

ARCHITECT:
IN SITU STUDIO
704 N. PERSON ST.
RALEIGH, NC 27604
CONTACT: ZACH HOFFMAN AIA
PHONE: 704 301 4750
EMAIL: ZACH@INSITUSTUDIO.US

PME + F
HDM ASSOCIATES, INC.
106 TARHEEL COURT
ELIZABETH CITY, NC 27909
CONTACT: RICHARD T. THORNE
PHONE: 252 698 3003
EMAIL: HDMA@MINDSPRING.COM

STRUCTURAL ENGINEER + COST ESTIMATION:
LYSAGHT & ASSOCIATES, P.A. STRUCTURAL ENGINEERS
120 ST. MARY'S ST.
RALEIGH, NC 27605
CONTACT: MARK BLANKINSHIP
PHONE: 919 833 0495
EMAIL: MARKB@LYSAGHTASSOCIATES.COM

ABBREVIATIONS

@	at
AFF	above finish floor
ALUM	aluminum
BO	bottom of
CIP	cast-in-place
CL	centerline
CJ	control/construction joint
CPT	common path of travel
EQ	equal
FFE	finished floor elevation
FEC	fire extinguisher + cabinet
FIN	finish
FO	face of
GA	gauge
GALV	galvanized
LOD	limits of disturbance
MAX	maximum
MED	maximum egress distance
MIN	minimum
NIC	not in contract
NTS	not to scale
OC	on center
PTD	painted
REF	reference
REV	reverse
SIM	similar
SF	square feet
SS	stainless steel
TO	top of
TPF-SF	tree protection fence silt
TYP	typical
UON	unless otherwise noted
VIF	verify in field

06 03 26
ZACHARY SCOTT HOFFMAN
REGISTERED ARCHITECT
No. 14288
NORTH CAROLINA
RALEIGH, N.C.

MATERIAL SPECIFICATIONS

313 GRAVEL
330 CAST-IN-PLACE CONCRETE
512 STRUCTURAL STEEL
550 METAL FABRICATION
443 STONE VENEER
620 EXTERIOR FINISH CARPENTRY
742 STANDING SEAM METAL ROOF
762 METAL TRIM + FLASHING
811 HOLLOW METAL DOOR
26 ELECTRICAL FIXTURES
26 FIRE ALARM FIXTURES

SYMBOL LEGEND

MATERIAL TAG
LETTER OR # COLUMN LINE
/ SHEET # SECTION TAG
DOOR LABEL
A PARTITION TYPE
/ SHEET # ELEVATION TAG
LETTER WINDOW LABEL
/ SHEET # DETAIL TAG
/ SHEET # INTERIOR ELEVATION TAG

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Consultants
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Structural — LYSAGHT & ASSOCIATES
PME/FIRE — HDM ASSOCIATES, INC.
Cost Estimation — LYSAGHT & ASSOCIATES

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scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

coversheet

PP.A0.0

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **Historic Yates Mill County Park - Park Pavilion**
Address: **4620 Lake Wheeler Road** Zip Code **27603**
Owner/Authorized Agent: **Zach Hoffman** Phone # (**704**) **301** - **4750** E-Mail **zach@insitustudio.us**
Owned By: ☐ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City **Raleigh** ☒ County **Wake** ☐ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	in situ studio	Zach Hoffman, AIA		(704) 301 4750	
Civil	Kimley-Horn	John Kuzenski, PE		(919) 653 2990	
Electrical	HDM Associates	Richard Thorne, PE		(252) 698 3003	
Fire Alarm	-	-		( )	
Plumbing	HDM Associates	Richard Thorne, PE		(252) 698 3003	
Mechanical	-	-		( )	
Sprinkler-Standpipe	-	-		( )	
Structural	Lysaght + Assoc.	Mark Blankenship, PE		(919) 414 0188	
Retaining Walls >5' High	-	-		( )	
Other- LA	Kimley-Horn	Nick Kuhn, PLA		(314) 706 3104	

("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: ☒ New Construction ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core
☐ Phased Construction – Shell/Core
☐ Renovation

2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use
CONSTRUCTED:(date) _____ **ORIGINAL OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RISK CATEGORY (table 1604.5) **Current:** ☐ I ☒ II ☐ III ☐ IV
Proposed: ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) **Flood Hazard Area:** ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ.FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	0	999 open	0	999 open
Basement				
TOTAL				999 open

ALLOWABLE AREA

Primary Occupancy Classification: SELECT ONE
Assembly ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): NA
Incidental Uses (Table 509)**:** NA
Special Uses (Chapter 4 – List Code Sections) NA
Special Provisions: (Chapter 5 – List Code Sections): NA
Mixed Occupancy: ☒ No ☐ Yes Separation: NA Hr. Exception: NA
☒ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) -
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	main level	999 open	6,000	0	6,000

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 0 (F)
b. Total Building Perimeter = 0 (P)
c. Ratio (F/P) = 0 (F/P)
d. W = Minimum width of public way = >30 (W)
e. Percent of frontage increase I_f = 100 [F/P - 0.25] x W/30 = 0 (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40 max	12	-
Building Height in Stories (Table 504.4)	1	1	-

[1] Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1
[3] The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30	0					
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Column Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PERPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30 or greater	UP, NS	unlimited	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ No ☐ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial _____
Carbon Monoxide Detection: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: PP.A0.2

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
☐ Exit access travel distances (1017)
☐ Common path of travel distances (1006.2.1 & 2006.3.2(1))
☐ Dead end lengths (1020.4)
☐ Clear exit widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS	ACCESSIBLE UNITS	TYPE A UNITS	TYPE A UNITS	TYPE B UNITS	TYPE B UNITS	TOTAL ACCESSIBLE UNITS

N/A

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH	TOTAL # ACCESSIBLE PROVIDED
TOTAL					

REF LA/C DRAWINGS

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	-									→
	NEW	0									→
	REQ'D	-									→

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)
N/A

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appendix b
PP.A0.1

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
[illegible] 2018 NCECC [illegible] for ASHRAE 90.1)
☐ C406.3 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

REF ELECTRICAL DRAWINGS

2018 NC Administrative Code and Policies — Revised 6/15/2020

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

N/A - NO MECHANICAL SCOPE - OPEN AIR SHELTER

Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

2018 NC Administrative Code and Policies — Revised 6/15/2020

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)
Historic Yates Mill - Pavillion

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0; Seismic (I_e) 1.0

Live Loads: Roof 20 psf; Mezzanine N/A psf; Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7) ASCE 7-10; Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_s 15.8 %g S_1 7.8 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☒ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☒ Simplified ☐ Equavalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 3,000 psf Terracon Report - Project No. 70255183 dated 12/12/25
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity N/A

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly:

N/A - OPEN AIR SHELTER

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

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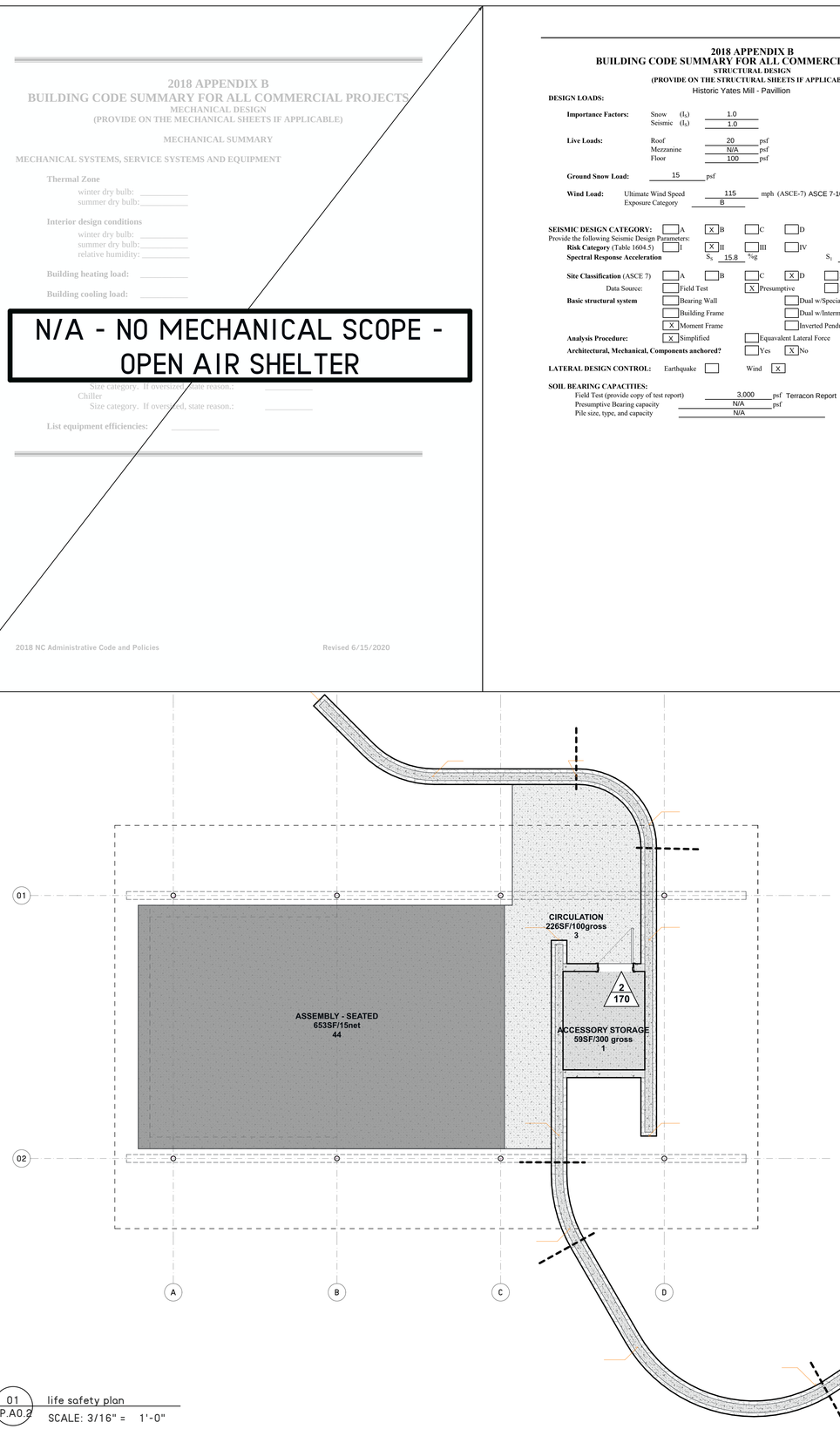

OCCUPANCY				
INTERIOR	A-3 - ASSEMBLY	TYPE V-B CONSTRUCTION		1508 SF
MAX SIZE - NS - 6000SF (506.2)				
TABLE 602 - FIRE SEPARATION > 30' - 0 HOURS FOR EXTERIOR WALLS				
654 SF	assembly-seated	15 net	44 occupants	
119 SF	circulation	100 gross	3 occupants	
119 SF	accessory storage	300 gross	1 occupants	
		TOTAL	48 occupants	

LEGEND
assembly - seated (15 net)
circulation (100 gross)
accessory storage (300 gross)

01 PP.A0.2 life safety plan
SCALE: 3/16" = 1'-0"

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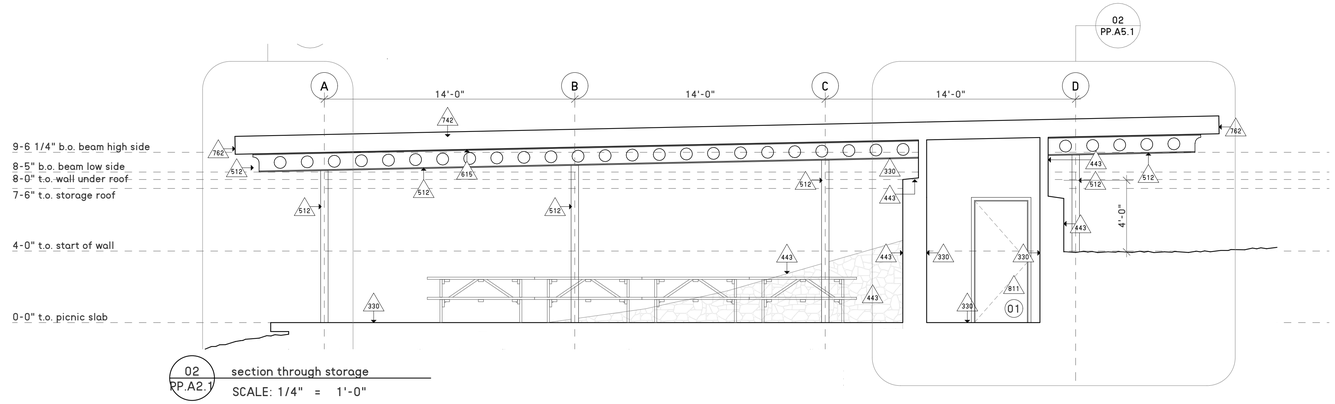
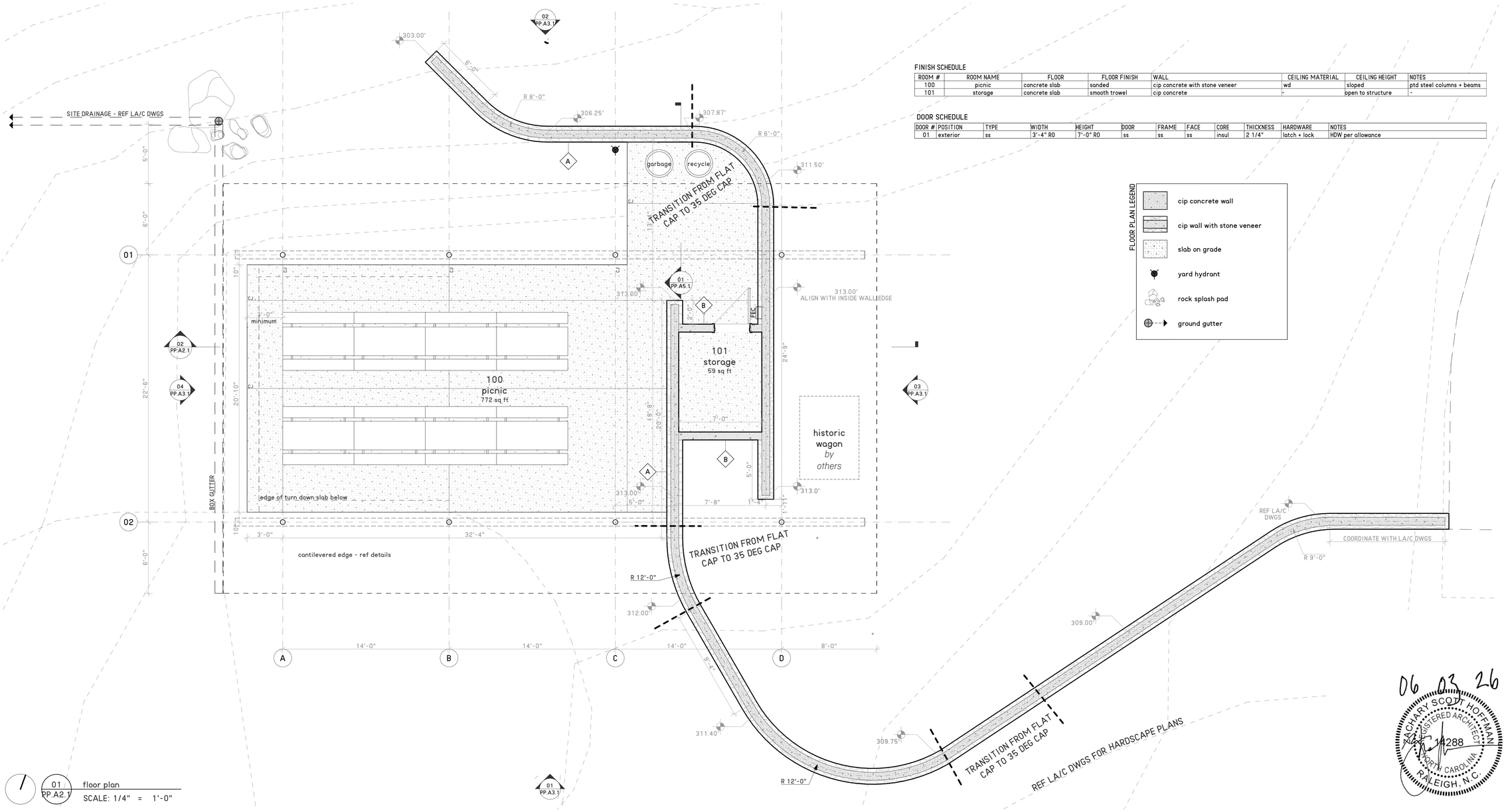
appendix b cont.
+ life safety plan

PP.A0.2



02 PP.A2.1 section through storage

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



FLOOR PLAN LEGEND

- cip concrete wall
- cip wall with stone veneer
- slab on grade
- yard hydrant
- rock splash pad
- ground gutter

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	FLOOR FINISH	WALL	CEILING MATERIAL	CEILING HEIGHT	NOTES
100	picnic	concrete slab	sanded	cip concrete with stone veneer	wd	sloped	ptd steel columns + beams
101	storage	concrete slab	smooth trowel	cip concrete	-	open to structure	-

DOOR SCHEDULE

DOOR #	POSITION	TYPE	WIDTH	HEIGHT	DOOR	FRAME	FACE	CORE	THICKNESS	HARDWARE	NOTES
01	exterior	ss	3'-4" RO	7'-0" RO	ss	ss	ss	insul	2 1/4"	latch + lock	HDW per allowance

01 PP.A2.1 floor plan

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

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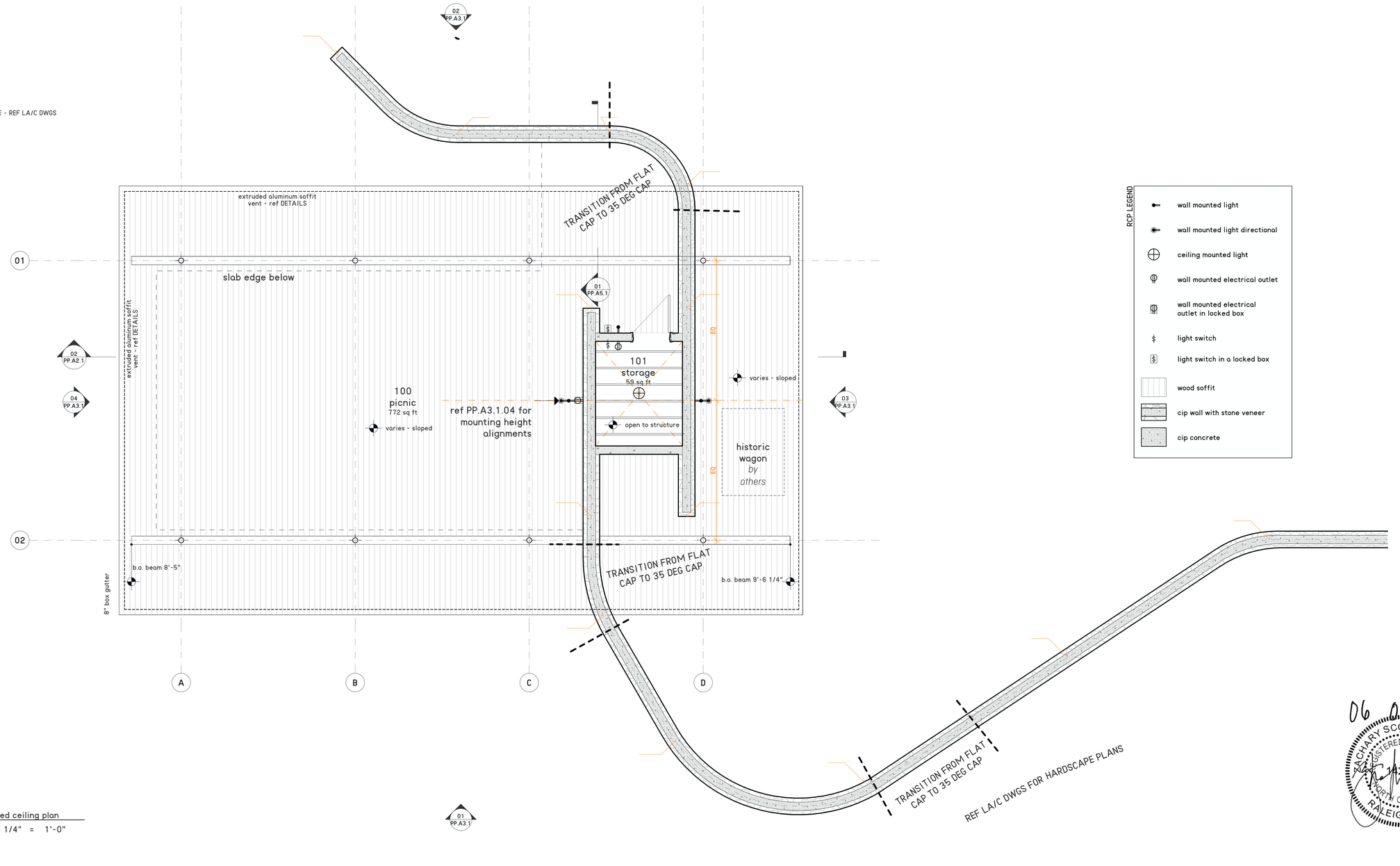
floor plan +
schedules +
building section

PP.A2.1

SITE DRAINAGE - REF LA/C DWGS



RCP LEGEND

- wall mounted light
- wall mounted light directional
- ceiling mounted light
- wall mounted electrical outlet
- wall mounted electrical outlet in locked box
- light switch
- light switch in a locked box
- wood soffit
- cip wall with stone veneer
- cip concrete

01 PP.A2.2 reflected ceiling plan
SCALE: 1/4" = 1'-0"

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reflected ceiling plan

PP.A2.2

ROOF PLAN LEGEND

- 12" corrugated roof over ice + water shield
- cip wall with stone veneer
- below
- rock splash pad
- ground gutter

01 roof plan
PP.A2.2 SCALE: 1/4" = 1'-0"

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Cost Estimation — LYSAGHT & ASSOCIATES

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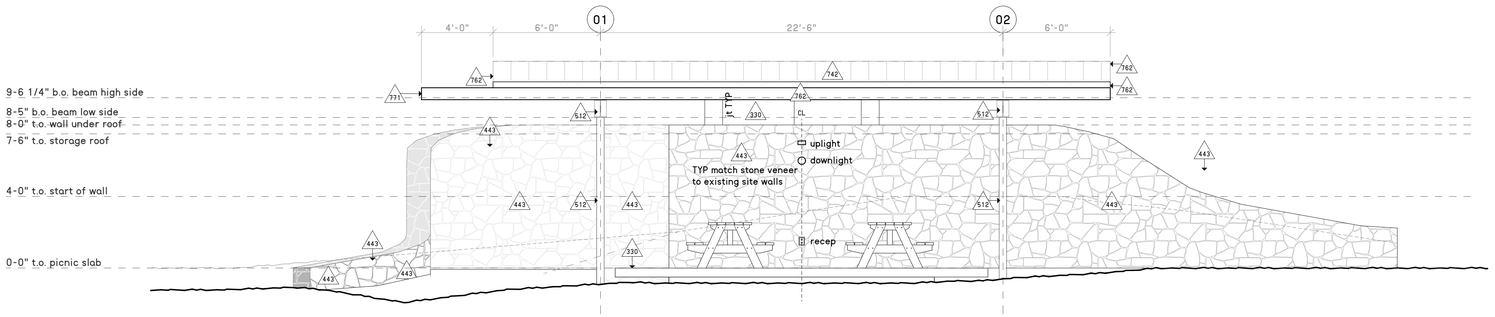
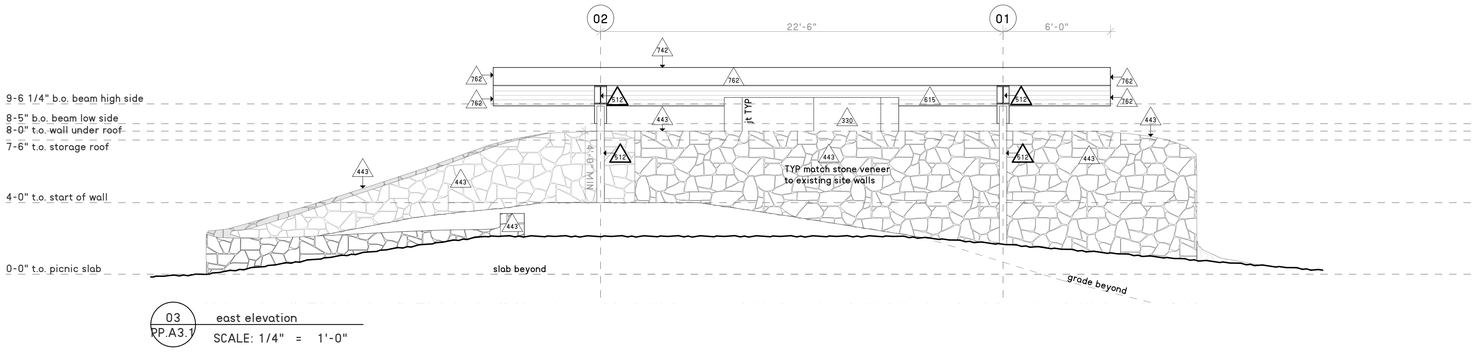
roof plan

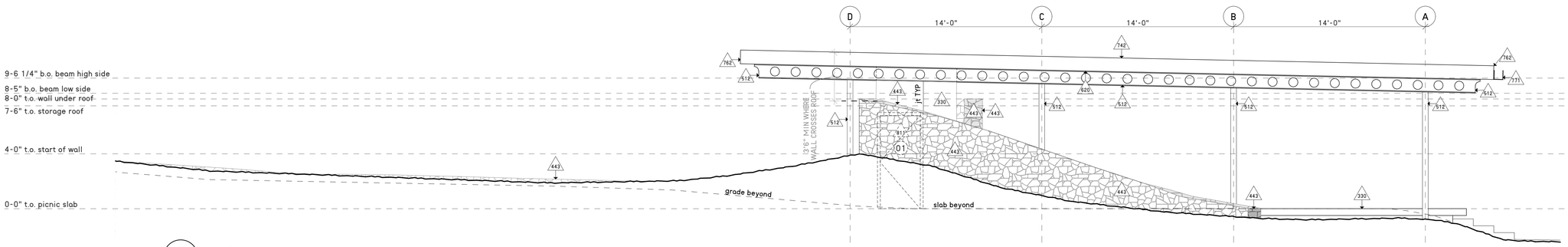
PP.A2.2



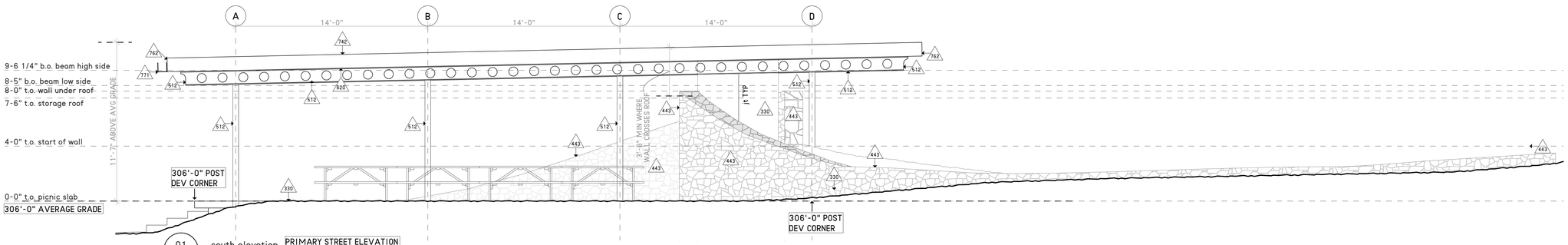
04 PP.A3.1 west elevation
SCALE: 1/4" = 1'-0"



03 PP.A3.1 east elevation
SCALE: 1/4" = 1'-0"



02 PP.A3.1 north elevation
SCALE: 1/4" = 1'-0"



01 PP.A3.1 south elevation PRIMARY STREET ELEVATION
SCALE: 1/4" = 1'-0"

MATERIAL LEGEND

- 330 CAST-IN-PLACE CONCRETE
- 443 STONE VENEER
- 512 STRUCTURAL STEEL
- 620 EXTERIOR FINISH CARPENTRY
- 742 CORRUGATED METAL ROOF
- 754 TPO ROOF
- 762 METAL TRIM + FLASHING
- 771 GUTTER + DOWNSPOUTS
- 811 HOLLOW METAL DOOR

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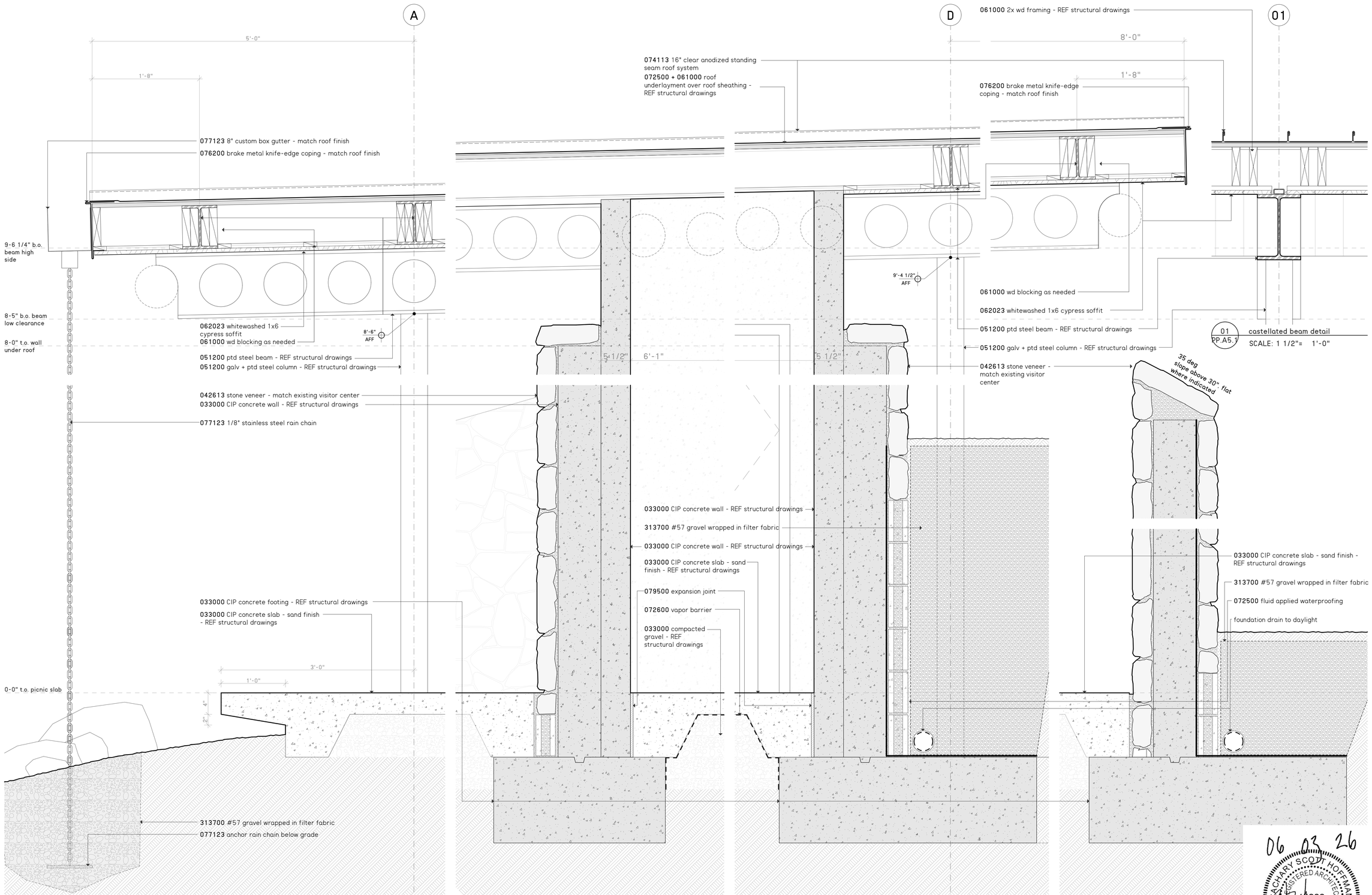
building elevations

PP.A3.1



03 PP.A5.1 cantilevered slab detail
SCALE: 1 1/2"= 1'-0"

02 PP.A5.1 storage room detail
SCALE: 1 1/2"= 1'-0"

01 PP.A5.1 castellated beam detail
SCALE: 1 1/2"= 1'-0"

01 PP.A5.1 TYP stone retaining wall
SCALE: 1 1/2"= 1'-0"

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section details

PP.A5.1

GENERAL STRUCTURAL NOTES

GENERAL

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A. FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

CONTRACTOR SHALL TAKE SUCH ACTION AS NECESSARY TO PREVENT MOVEMENT OF OR DAMAGE TO THE ADJACENT STRUCTURE DURING CONSTRUCTION.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE NOT CURRENTLY A PART OF OUR CONTRACT BUT CAN BE PROVIDED ACCORDING TO OUR PENDING PROPOSAL. CONTRACTOR MUST NOTIFY THE STRUCTURAL ENGINEER AT THE FOLLOWING STAGES

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR OR OWNER. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHOULD BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURAL SLAB CONSTRUCTION FOR CONCENTRATED LOADS DUE TO VEHICULAR OR FORKLIFT TRAFFIC. THE SLAB IS DESIGNED FOR UNIFORM LOADING AS NOTED IN THE "DESIGN LOADS" PORTION OF THE STRUCTURAL NOTES AND CONCENTRATED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE BUILDING CODE.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE FOR SPECIFIC VIBRATION LIMITS. VIBRATION LIMITATIONS ARE BASED ON STANDARD ENGINEERING PRACTICES AND PAST EXPERIENCE WITH SIMILAR CONSTRUCTION.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE TO SUPPORT DYNAMIC LOADS FROM VIBRATING MACHINERY OR EQUIPMENT. ALL VIBRATING EQUIPMENT AND MACHINERY MUST BE ISOLATED FROM THE STRUCTURE.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ABBREVIATIONS

AB	ANCHOR BOLT	NTS	NOT TO SCALE
AFF	ABOVE FINISH FLOOR	O.C.	ON CENTER
B/B	BACK TO BACK	P.A.F.	POWDER-ACTUATED FASTENER
BOX	BOTTOM CHORD EXTENSION	P.T.	PRESSURE-TREATED
C/C	CENTER TO CENTER	SER	STRUCT. ENGINEER OF RECORD
C.J.	CONTROL / CONSTR. JOINT IN SLAB	S.P.F.	SPRUCE-PINE-FIR
D.J.	DOUBLE JOIST	S.Y.P.	SOUTHERN YELLOW PINE
E.J.	EXPANSION JOINT	T.O.F.	TOP OF FOOTING
EOS	EDGE OF SLAB	T.O.S.	TOP OF STEEL
E.W.	EACH WAY	T.O.J.	TOP OF JOIST
JBE	JOIST BEARING ELEVATION	U.N.O.	UNLESS NOTED OTHERWISE
M.C.J.	MASONRY CONTROL JOINT	W.W.F.	WELDED WIRE FABRIC

CODE

NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (IBC 2015)
STRUCTURAL LOADING PER ASCE 7-2010

BLDG RISK CATEGORY (NCSBC TABLE 1604.5) II

DESIGN LOADS

ROOF DEAD LOAD	15	PSF
ROOF LIVE LOAD	20	PSF
FLOOR DEAD LOAD	50	PSF
FLOOR LIVE LOAD (Uniform)	100	PSF
FLOOR LIVE LOAD (Concentrated)	2000	LBS

SNOW LOAD DATA :

GROUND SNOW LOAD	15	PSF
SNOW EXPOSURE FACTOR	1.0	
SNOW LOAD IMPORTANCE FACTOR	1.0	
THERMAL FACTOR	1.1	
FLAT ROOF SNOW LOAD	15	PSF
ROOF SLOPE FACTOR	1.0	
PITCHED ROOF SNOW LOAD	15	PSF

WIND LOAD DATA :

ULTIMATE DESIGN WIND SPEED, Vult	115	MPH
WIND EXPOSURE	B	
INTERNAL PRESSURE COEFFICIENTS	+0.18, -0.18	
WIND PRESSURE FOR COMPONENTS / CLADDING	PER ASCE 7-10	

SEISMIC LOAD DATA :

SEISMIC SITE SOIL CLASS	D
SEISMIC DESIGN CATEGORY	B
Ss =	0.158
S1 =	0.078
Sds =	0.168
Sd1 =	0.125

FOUNDATIONS

ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING **3,000** PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. REFER TO GEOTECHNICAL REPORT (TERRACON PROJECT NO.:70259183) FOR HISTORIC YATES MILL COUNTY PARK BY TERRACON DATED 12/12/25.

THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER, PRIOR TO STARTING WORK, FOR SOIL REPAIR AND REINFORCEMENT REQUIREMENTS IF THERE ARE ANY UNSATISFACTORY SOILS ENCOUNTERED, (INCLUDING BUT NOT LIMITED TO SHIFTING, COMPRESSIBLE, SATURATED SOILS)

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL, AND SHALL BE COORDINATED WITH GEOTECHNICAL REPORT, IF REPORT IS PROVIDED FOR PROJECT. ANY INFORMATION IN THE GEOTECHNICAL REPORT SHALL CONTROL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL, UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, THE MINIMUM BEARING CAPACITY OF THE SUBGRADE SHALL BE **3,000** PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D-698 IN THE FINAL FOOT BENEATH FOOTINGS, FLOOR SLABS, AND PAVEMENTS. REFER TO THE GEOTECHNICAL REPORT BY TERRACON REFERENCED ABOVE FOR FILL DETAILS.

WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT BRACING UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE". ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE:

FOOTINGS	3000 PSI
POURED-IN-PLACE WALLS	4,000 PSI
SLABS ON GRADE	4,000 PSI
ELEVATED SLABS	4,000 PSI

USE NORMAL WEIGHT CONCRETE FOR FOOTINGS AND SLABS ON GRADE. SEE SLAB ON GRADE NOTES FOR ADDITIONAL REQUIREMENTS.

CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 6 PERCENT (+/- 1.5%).

SLAB-ON-GRADE CONSTRUCTION

PLACE FLOOR SLAB ON A WELL COMPACTED BASE. THE SUBGRADE SHALL BE GRANULAR, NON-EXPANSIVE SOIL (THAT IS, WITHOUT CLAY), WHICH HAS BEEN COMPACTED TO AT LEAST 95%, EXCEPT 98% FOR FINAL FOOT, AND VERIFIED BY ON-SITE TESTING.

TYPICAL SLAB ON GRADE SHALL BE 6" THICK, NORMAL WEIGHT CONCRETE. REINFORCE SLAB ON GRADE WITH WELDED WIRE FABRIC (W.W.F.) PER DETAILS IN SHEETS, NOT ROLLS. PLACE W.W.F. 1.5" BELOW TOP OF SLAB, TO LIMIT THE RISK OF BEING CUT BY THE SAW JOINTS, WHICH ARE USUALLY 1/4 THE DEPTH OF THE SLAB.

CONCRETE STRENGTH SHALL BE THE STRENGTH, AS NOTED IN GENERAL NOTES, AT 28 DAYS. GENERAL CONTRACTOR SHALL USE WATER REDUCING ADMIXTURES TO REDUCE WATER, IF NECESSARY, TO INCREASE WORKABILITY AND DECREASE SHRINKAGE CRACKS.

USE 6% AIR ENTRAINMENT ON EXTERIOR SLABS. DO NOT USE AIR ENTRAINMENT ON INTERIOR SLABS (3% MAXIMUM AIR ENTRAINMENT).

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE AT A MAXIMUM SPACING OF 12'-0" O.C. FOR 4" THICK SLAB, UNLESS NOTED OTHERWISE. THESE CONTROL JOINTS SHALL BE BY THE GENERAL CONTRACTOR, IN ACCORDANCE WITH ACI 318. ACI STANDARD PRACTICE IS TO PLACE JOINTS 4 - 8 HOURS AFTER CONCRETE POUR.

LIGHTLY DAMPEN THE SUB-GRADE BEFORE PLACING CONCRETE TO PREVENT THE SUB-GRADE FROM ABSORBING WATER FROM CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUB-GRADE SURFACE.

STEEL TROWEL THE CONCRETE TO A SHINY FINISH WHICH RESULTS IN A HARD, DENSE SURFACE. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL FINISH REQUIREMENTS.

DURING HOT WEATHER, USE A FOG SPRAY TO KEEP THE SURFACE DAMP BEFORE APPLYING CURING COMPOUND.

START CURING AS SOON AS THE FINISHERS ARE DONE. APPLY THE CURING COMPOUND IN TWO COATS AT RIGHT ANGLES TO EACH OTHER AND NOT MORE THAN 300 SQUARE FEET PER GALLON, ABOUT 15 MINUTES APART.

SEE ARCHITECTURAL PLANS FOR SLAB FINISHES AND LOCATION OF CONTROL JOINTS.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2'-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

LAP ALL SPLICES IN CAST-IN-PLACE CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 50 BAR DIAMETERS.

PROVIDE DOWELS IN WALL FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL EXTENDING 24 BAR DIAMETERS INTO FOOTING (UNLESS A HOOKED BAR IS PROVIDED) AND 12 BAR DIAMETERS INTO WALL, UNLESS NOTED OTHERWISE.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

CONCRETE MASONRY

CONCRETE MASONRY UNITS SHALL BE ERECTED AS LOAD BEARING CONCRETE MASONRY. COMPLY WITH THE REQUIREMENTS OF ACI 530.1 / ASCE 6 / TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES."

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM SPECIFICATIONS FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (ASTM C90). MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY (ASTM C270), TYPE "M" OR "S". THE MINIMUM NET COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 2000 PSI (f'm = 2000 PSI FOR MASONRY SYSTEM).

ALL GROUT USED TO FILL REINFORCED MASONRY CAVITIES AND SHOWN AT OTHER LOCATIONS ON THE PLANS SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. IN ALL CMU WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS. USE LADDER TYPE DUR-O-WALL REINFORCEMENT, HOT DIP GALVANIZED AFTER FABRICATION. LONGITUDINAL WIRES SHALL BE A MINIMUM OF (2) NO. 9 GAGE. LOCATE JOINT REINFORCEMENT IN FIRST AND SECOND BED JOINTS, 8" APART IMMEDIATELY ABOVE LINTELS AND BELOW SILLS AT OPENINGS. REINFORCEMENT SHALL NOT EXTEND THROUGH VERTICAL MASONRY CONTROL JOINTS.

ALL STEEL BEARING SHALL BE ON A BOND BEAM, SOLID BLOCK OR 8" OF BRICK.

WHERE INTERIOR CONCRETE MASONRY PARTITIONS MEET OTHER INTERIOR PARTITIONS OR EXTERIOR WALLS, PROVIDE A CONTROL JOINT WITH METAL STRAP ANCHORS BETWEEN WALLS.

PROVIDE BOND BEAMS AT THE TOP OF MASONRY ELEVATIONS AS SHOWN ON THE DRAWINGS. BOND BEAMS TO HAVE (2) #4 BARS CONTINUOUS UNLESS OTHERWISE NOTED. WHERE THE BOND BEAM IS INTERSECTED BY A CONTROL JOINT, CHANGE THE BARS TO SMOOTH ROUND BARS AND GREASE ONE END SO THAT LATERAL MOVEMENT WILL NOT BE RESTRAINED.

MASONRY WALLS ARE TO BE LATERALLY BRACED DURING CONSTRUCTION IN ACCORDANCE WITH "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND THE MASON CONTRACTORS ASSOCIATION OF AMERICA. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT SUPPORTING ELEMENTS OF THE STRUCTURE ARE IN PLACE.

REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF MASONRY CONTROL JOINTS, OR IF NOT SHOWN, COORDINATE WITH ARCHITECT. IN GENERAL, CONTROL JOINTS SHOULD BE LOCATED WITH A MAXIMUM SPACING OF 30'-0".

STRUCTURAL STEEL

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360-10)".

ALL EXTERIOR STEEL SHALL BE GALVANIZED.

GENERAL CONTRACTOR TO COORDINATE SHOP COATS OF RUST-INHIBITIVE PAINT. STEEL COLUMNS BELOW GRADE THAT ARE NOT ENCASED IN CONCRETE SHALL BE FIELD PAINTED WITH A WATERPROOF MASTIC COMPOUND TO PREVENT CORROSION.

THE STEEL USED SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS:

WIDE FLANGE SHAPES ('W' SHAPES)	50 KSI (A992)
CHANNELS, ANGLES, PLATES, MISC. SHAPES	36 KSI (A36)
STRUCTURAL PIPE SHAPES	35 KSI (A53, B)
HSS TUBE SHAPES	46 KSI (A500, B or C)

USE 3/4" DIAMETER ASTM F3125 GRADE A325 BOLTS FOR ALL STEEL TO STEEL CONNECTIONS U.N.O. DESIGN FOR THREADS INCLUDED (TYPE N) CONDITIONS, U.N.O. BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT.

USE F1554 (GRADE 36) BOLTS FOR ALL ANCHOR BOLTS U.N.O. HEADED WELD STUDS SHALL BE MADE OF MATERIAL CONFORMING TO ASTM A108. USE E-70 ELECTRODES FOR ALL SHOP AND FIELD WELDING.

THE STEEL FABRICATOR SHALL DESIGN ALL STEEL TO STEEL CONNECTIONS FOR THE SERVICE LOAD REACTIONS SHOWN ON THE DRAWINGS (USE 6.0k MINIMUM WHERE NOT SHOWN). WHERE SINGLE SHEAR PLATES ARE USED, CONNECTIONS FOR WIDE FLANGE BEAMS SHALL HAVE THE FOLLOWING MINIMUM ROWS OF BOLTS :

W8, W10, W12 BEAMS	(2) ROWS OF BOLTS
W14, W16 BEAMS	(3) ROWS OF BOLTS

THE STEEL SUPPLIER SHALL DESIGN ALL STEEL STAIRS AND LADDERS IN ACCORDANCE WITH THE N.C. STATE BUILDING CODE. STAIR SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA.

FOR MISCELLANEOUS STEEL NOT SHOWN ON THESE DRAWINGS, SEE ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS.

CONNECTIONS BETWEEN STRUCTURAL STEEL MEMBERS SHALL BE AS SHOWN ON STRUCTURAL DRAWING DETAILS. ALTERNATE CONNECTION DETAILS MUST BE APPROVED IN WRITING, BY THE STRUCTURAL ENGINEER OF RECORD, PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

SUBMIT ERECTION AND SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

CASTELLATED BEAMS ON THIS PROJECT ARE DELEGATED DESIGN. DRAWINGS SHALL BE PREPARED AND SEALED BY A LICENSED NC PROFESSIONAL ENGINEER AND SUBMITTED FOR APPROVAL. CASTELLATED BEAMS SHOWN ON THESE DRAWINGS ARE BASIS FOR DESIGN.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #1 (NLGA grading rules) UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (UNO). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL".

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

ALL JOINTS OF SOLID WOOD GIRDERS AND THE OUTSIDE MEMBERS OF BUILT-UP GIRDERS SHALL BE MADE OVER PIER OR COLUMN SUPPORTS.

MICROLLAM HEADERS (LVL'S) ARE MANUFACTURED BY Weyerhauser iLevel Trus Joist. (THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT HEADERS IF PROPERLY DESIGNED BY THE MANUFACTURER.) MICRO-LAM HEADERS ARE ALWAYS DOUBLED AND MUST BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS @ 12" O.C. STAGGERED. PROVIDE CONTINUOUS LATERAL SUPPORT FOR TOP OF HEADER.

BUILT-UP STUD COLUMNS MUST BE SECURELY BOLTED AND NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. MAXIMUM BOLT SPACING IS 3'-0" WITH BOLTS AT BOTH ENDS.

WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 1/2" DIAMTER BOLTS SPACED NOT MORE THAN 6' APART AND WHICH ARE EMBEDDED AT LEAST 6" IN CONCRETE OR 15" IN MASONRY UNITS. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

2 X 4 STUDS SPACED AT 12" O.C. SHALL BE USED FOR THE FIRST FLOOR OF THREE STORY BUILDINGS.

THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESSURE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE BUILDING CODE.

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REV. # DATE
BID 10/01/26

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HISTORIC YATES MILL COUNTY PARK
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RALEIGH, NC 27603

GENERAL STRUCTURAL NOTES

PP.S1.0

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP

10/01/26

FOOTING SCHEDULE

MK#	SIZE	REINFORCING	NOTES
WF4.0	4'-0" WIDE X 16" THICK	SEE 01/PP.S2.1	SITE RETAINING WALLS
WF2.8	2'-8" WIDE X 16" THICK	(4) #5 CONTINUOUS	STORAGE WALLS
F3.5	3'-6" X 3'-6" X 16"	(6) #5 EACH WAY T & B	COLUMN FOOTING
TD1	8" WIDE X 12" DEEP	(2)" #4'S CONT.	SLAB TURNDOWN
TD2	8" WIDE X 12" DEEP	SEE 06/PP.S2.1	CANTILEVER TURNDOWN

NOTES

1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING.

CONCRETE WALL SCHEDULE

MK#	DESCRIPTION	NOTES
CW6	6" CAST-IN-PLACE WALL AT STORAGE ROOM REINFORCE WITH #5'S @ 12" O.C. EACH WAY ST MID-DEPTH	1
CW8	EXTERIOR CAST-IN-PLACE 8" WALL. REINFORCE WITH #5'S @ 12" O.C. EACH WAY AT MID-DEPTH.	1, 2

NOTES

1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING.

2. PROVIDE VERTICAL CONTROL JOINTS IN WALL AT APPROXIMATELY 25' O.C. COORDINATE EXACT LOCATIONS WITH ARCHITECT.

COLUMN SCHEDULE

MK#	MATERIAL	DESCRIPTION	BASE PLATE	AB	AB SPREAD	NOTES
C1	STEEL	5" DIAMETER x STRONG	12" X 12" X 3/4"	(4) 3/4"	9" X 9"	1

NOTES:

1. ALL EXTERIOR STEEL SHALL BE GALVANIZED

CONCRETE LINTEL SCHEDULE

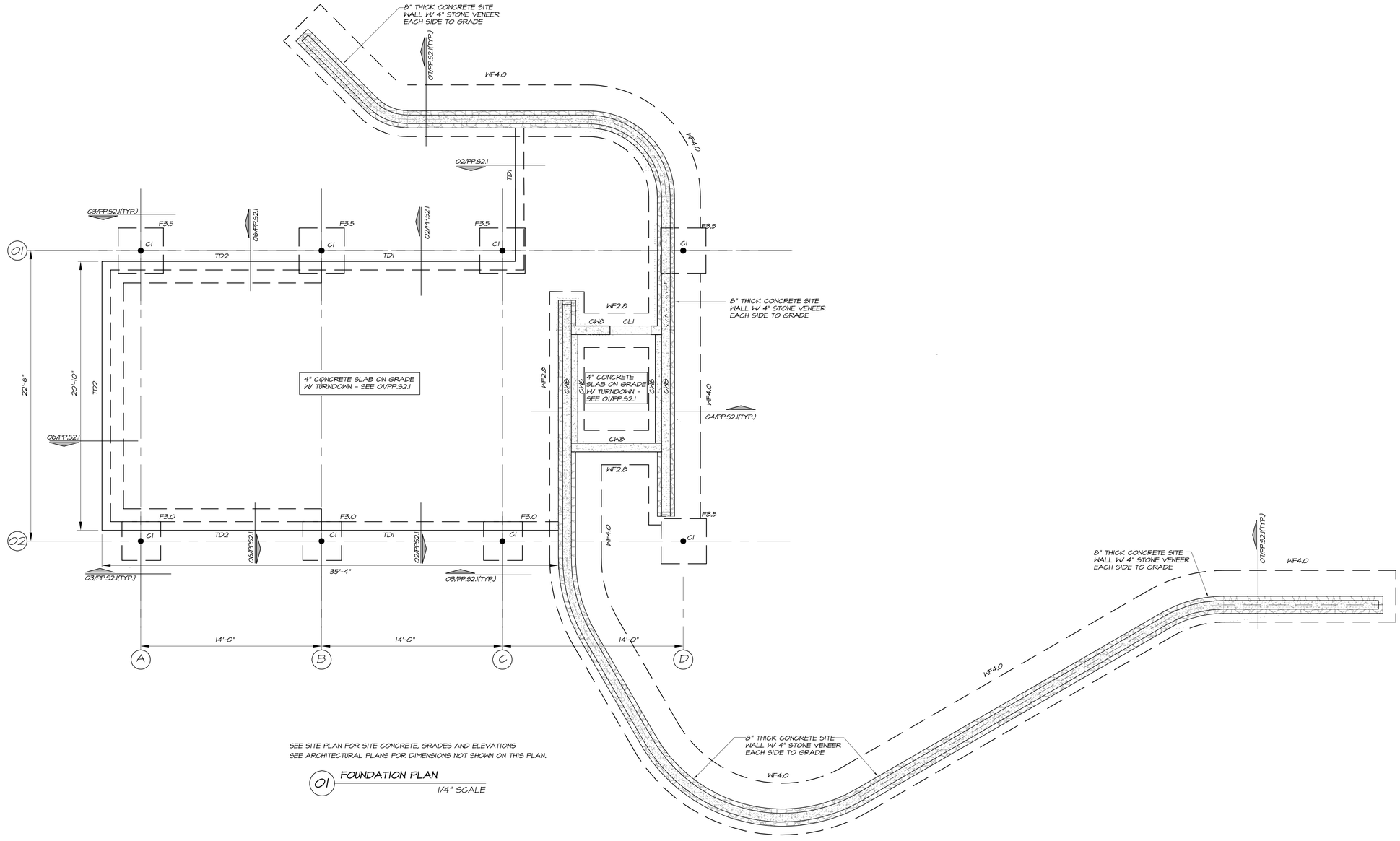
MK#	MATERIAL	DESCRIPTION	SIZE	REINFORCING	NOTE
CL1	CONCRETE	LINTEL (IN WALL)	8" WIDE X 8" DEEP	(4) HORIZONTAL #5S	1

NOTES:

1. INSTALL (2) ROWS OF (2) #5'S 4" APART HORIZONTALLY AND 6" VERTICALLY, EXTEND REINFORCING 8" BEYOND THE OPENING ON EACH SIDE

FOUNDATION PLAN NOTES

1. SEE DETAIL 01/PP.S2.1 FOR TYPICAL SLAB ON GRADE CONSTRUCTION. THE SLAB IS DESIGNED FOR 100 PSF UNIFORM LIVE LOAD WITH NO PROVISIONS FOR HEAVY CONCENTRATED LOADS.
2. SEE DETAIL 05/PP.S2.1 FOR TYPICAL STEPPED FOOTING.
3. WALL FOOTINGS TO BE POURED MONOLITHICALLY WITH SPREAD FOOTINGS AND WALL FOOTING REINFORCING SHALL RUN CONTINUOUSLY THROUGH SPREAD FOOTINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THIS PLAN.
5. SLOPE EXTERIOR SLABS AWAY FROM FOUNDATION WALLS AND SLABS FOR DRAINAGE.
6. SEE ARCHITECTURAL PLANS FOR DEPRESSED AND/OR SLOPED SLAB AREAS AND CONTROL JOINT LOCATIONS.
7. SEE ARCHITECTURAL AND SITE PLANS FOR DIMENSIONS AND NON-STRUCTURAL ITEMS.



SEE SITE PLAN FOR SITE CONCRETE, GRADES AND ELEVATIONS
SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN ON THIS PLAN.

01 FOUNDATION PLAN
1/4" SCALE

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP

10/01/26

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FOUNDATION PLAN

PP.S1.1

COLUMN SCHEDULE						
MK#	MATERIAL	DESCRIPTION	BASE PLATE	AB	AB SPREAD	NOTES
C1	STEEL	5" DIAMETER	12" X 12" X 1/2"	(4) 3/4"	9" X 9"	1

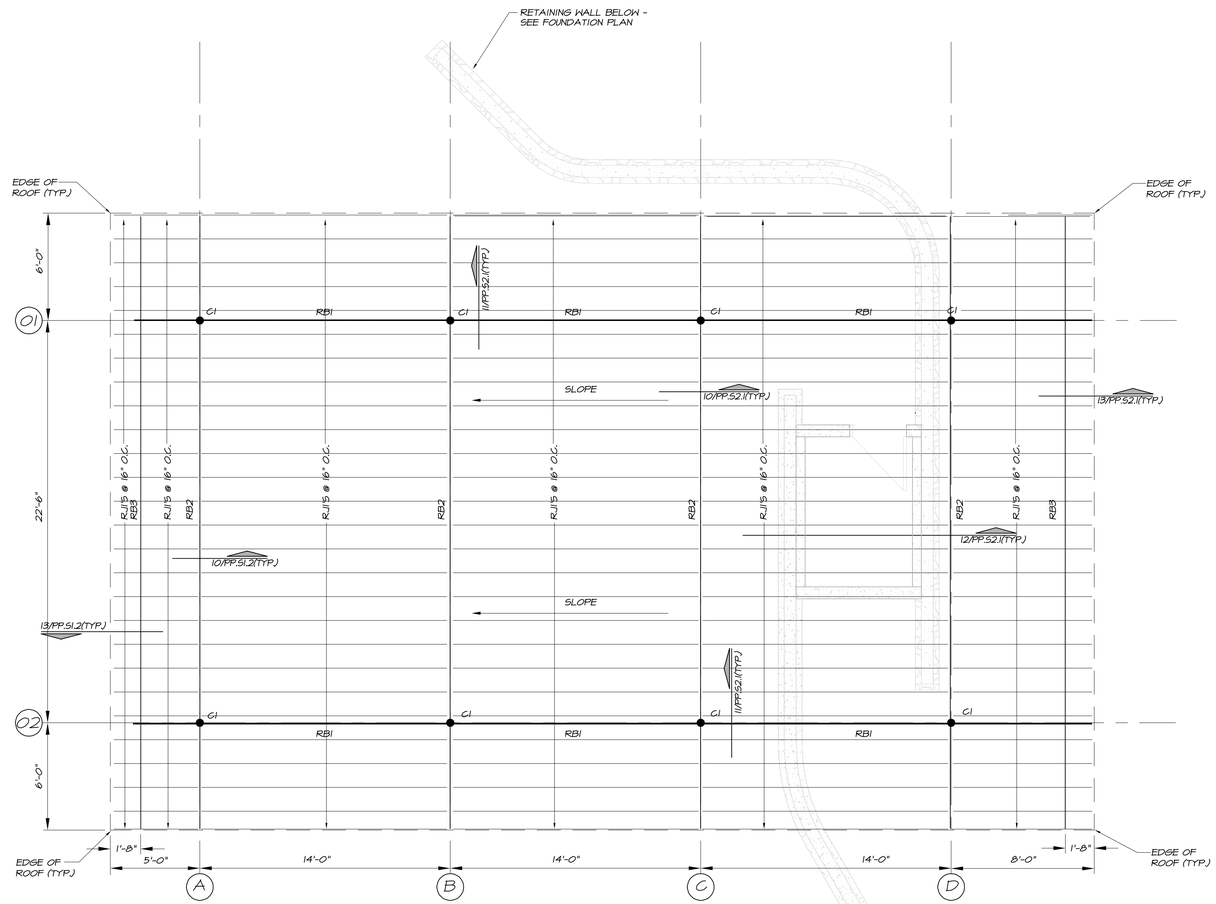
NOTES:

1. ALL EXTERIOR STEEL SHALL BE GALVANIZED

ROOF FRAMING SCHEDULE						
MK#	SIZE	MATERIAL	GRADE	RXN SMALL	RXN LARGE	NOTE
RJ1	2 X 8	SPF	No.1/No.2	0.3	0.3	2
RB1	WI2x50	STL	A992	~1.0	2.9	1, 3
RB2	W8x28	STL	A992	8.4	8.4	1
RB3	W8X15	STL	A992	5.5	5.5	1

NOTES

1. CONTRACTOR SHALL SUBMIT STEEL SHOP DRAWINGS FOR APPROVAL
2. SIZES ARE NOMINAL
3. RB1 IS A CASTELLATED STEEL BEAM. SEE DETAIL 12/PP.S2.1. CASTELLATED BEAMS ARE DELEGATED DESIGN. DRAWINGS PREPARED AND SEALED BY A LICENSED NC PE SHALL BE SUBMITTED FOR APPROVAL.
4. ALL EXTERIOR STEEL SHALL BE GALVANIZED.



01 ROOF FRAMING PLAN
1/4" SCALE

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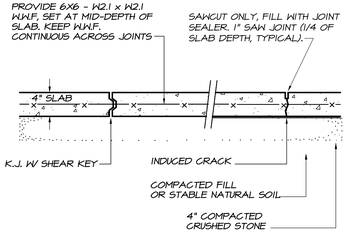
PP.S1.2
ROOF FRAMING PLAN

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP

10/01/26

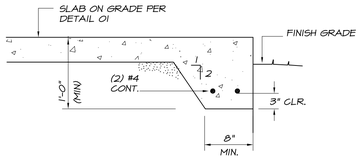
SEE ARCHITECTURAL PLANS FOR SLAB FINISHES AND LOCATION OF CONTROL JOINTS.



NOTES:
USE A KEYED CONSTRUCTION JOINT (K.J.) BETWEEN POURS.

01 MILL POND PAVILLION SLAB ON GRADE

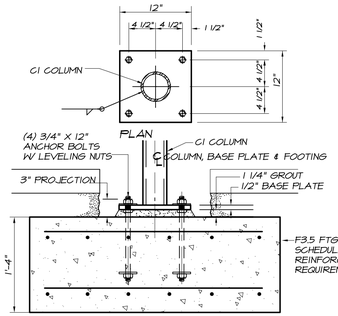
NO SCALE



BOTTOM OF FOOTING MUST BE A MINIMUM OF 1'-0" BELOW FINISH GRADE. USE DEEPER TURN DOWN IF NECESSARY.
SEE ARCHITECTURAL FOR NON-STRUCTURAL ITEMS

02 TURNED DOWN SLAB AT PERIMETER

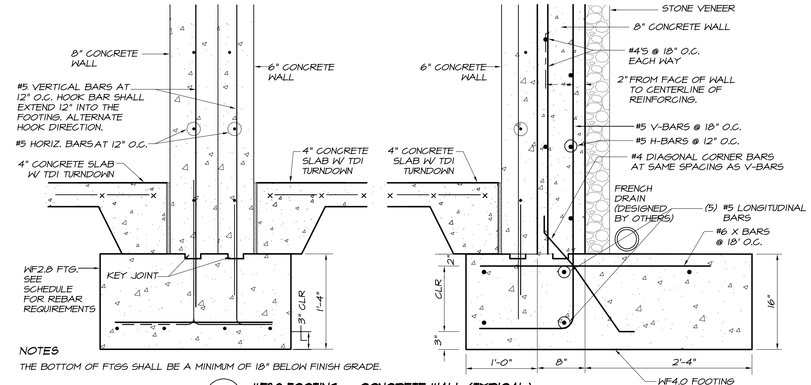
NO SCALE



NOTES
SEE FOUNDATION PLAN FOR SIZE AND REINFORCING.
THE BOTTOM OF FTGS SHALL BE A MINIMUM OF 18" BELOW FINISH GRADE.

03 PIPE COLUMN BASE DETAIL

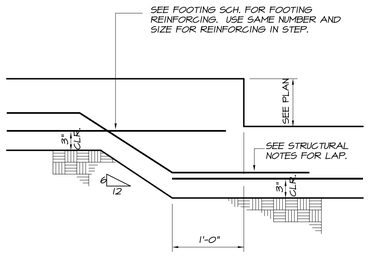
NO SCALE



NOTES
THE BOTTOM OF FTGS SHALL BE A MINIMUM OF 18" BELOW FINISH GRADE.

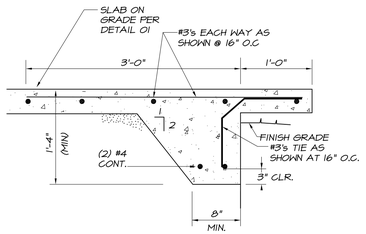
04 WF2.8 FOOTING - CONCRETE WALL (TYPICAL)

NO SCALE



05 TYPICAL STEPPED FOOTING

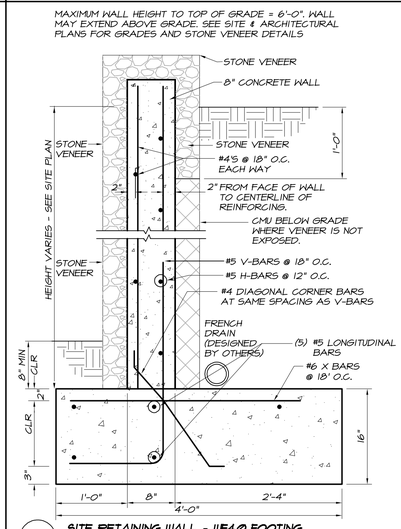
NO SCALE



BOTTOM OF FOOTING MUST BE A MINIMUM OF 1'-4" BELOW FINISH GRADE. USE DEEPER TURN DOWN IF NECESSARY.
SEE ARCHITECTURAL FOR NON-STRUCTURAL ITEMS

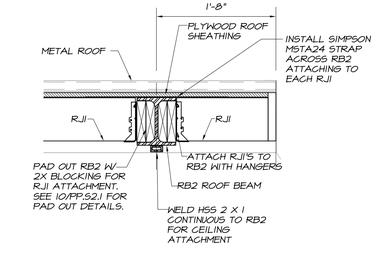
06 TURNED DOWN CANTILEVER SLAB AT PERIMETER

NO SCALE



07 SITE RETAINING WALL - WF4.0 FOOTING

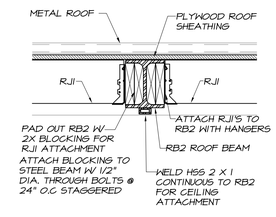
NO SCALE



SEE ARCHITECTURAL FOR ALL NON-STRUCTURAL ITEMS, RBI BEAM TAPER AND ROOF SLOPE

13 RB2/RJI ATTACHMENT DETAIL AT ENDS

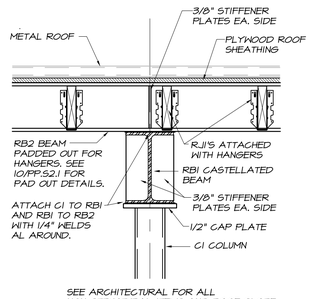
NO SCALE



SEE ARCHITECTURAL FOR ALL NON-STRUCTURAL ITEMS AND ROOF SLOPN

10 RB2/RJI ATTACHMENT DETAIL

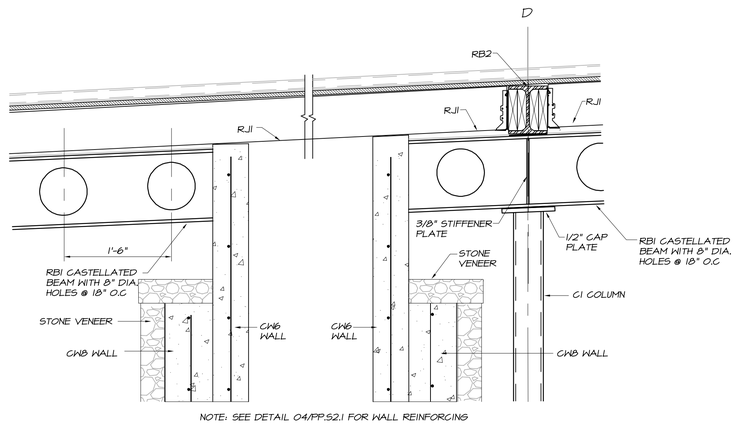
NO SCALE



SEE ARCHITECTURAL FOR ALL NON-STRUCTURAL ITEMS AND ROOF SLOPE

11 C1/RB1/RB2 ATTACHMENR

NO SCALE



NOTE: SEE DETAIL 04/PP.S2.1 FOR WALL REINFORCING

12 STORAGE ROOM CONCRETE WALLS AT ROOF

NO SCALE

in situ studio
704 N. Person Street
Raleigh, NC 27604
www.insitustudio.us

120 St.Mary's Street
Raleigh, NC 27605
(919) 821-1646
lysaght@lysaghassociates.com
Firm No. C-0621
LYSAGHT & ASSOCIATES
structural engineers

REV. # DATE
BID PLANS 10/01/26

BID

10/01/26
MRB
scale as noted

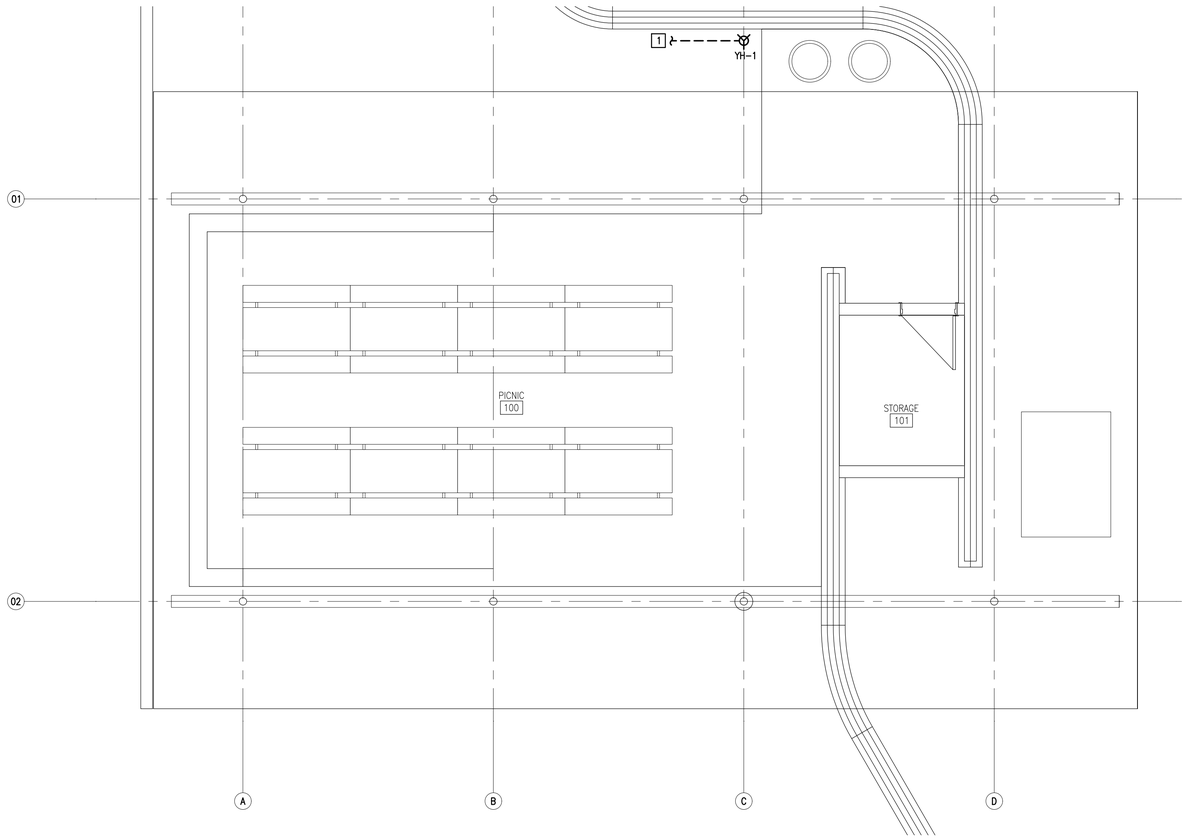
HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

ROOF FRAMING PLAN

PP.S2.1

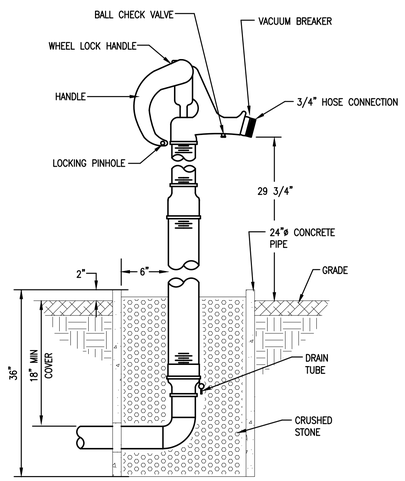
NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP

10/01/26



PLUMBING FLOOR PLAN – PAVILION – NEW WORK

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



YARD HYDRANT DETAIL

NO SCALE

P0-002

NEW WORK NOTES

1 SEE SITE PLAN FOR CONTINUATION. COORDINATE ROUTING AND ADDITIONAL CONNECTIONS WITH ENGINEER.

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	DRAIN (IN)	VENT (IN)	CW (IN)	HW (IN)	POWER	FIXTURE REMARKS
YH-1	YARD HYDRANT WITH LOCKABLE HANDLE	–	–	3/4	–	–	

WATER PIPE SIZE CALCULATIONS

MARK	DESCRIPTION	FU'S	# FIXT	SUBTOTAL
YH-1	YARD HYDRANT	4.0	1	4.0
TOTAL WATER FIXTURE UNITS				4.0
REQUIRED PIPE SIZE		3/4"		
PROVIDED PIPE SIZE		1"		

GENERAL COORDINATION NOTES

1 COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.

2 COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.

3 COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.

LEGEND

LEGEND NOTES:

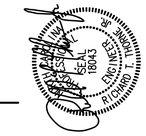
1. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED UNDERGROUND AS NOTED.
2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.

- EXISTING HOT WATER
- DOMESTIC HOT WATER PIPING (HW)
- EXISTING COLD WATER
- DOMESTIC COLD WATER PIPING (CW)
- PIPING TURN UP
- PIPING TURN DOWN
- BOX IN WALL
- VALVE BOX (VB)
- VALVE
- HOSE BIBB (HB)
- CONTINUATION
- POINT OF NEW CONNECTION
- REVISION DESIGNATION
- NEW WORK NOTE
- GENERAL NOTE
- P-# PLUMBING FIXTURE NUMBER – PLUMBING CONTRACTOR TO PROVIDE AND INSTALL.

GRAPHIC SCALE

1/4" = 1'-0" 2' 0 2' 4' 8'

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tattnall Court
Elizabeth City, NC
Phone: 252-888-3003
Email: hdma@hdmdesigning.com
NC1 LICENSE NO. C-1836
NC LICENSE NO. 040700711



HDM#25008 09/24/26

PPP1.0 PLUMBING FLOOR PLAN – PAVILION – NEW WORK

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

10 01 26
scale as noted

IFB

Consultants
Landscape/Civil KIMLEY-HORN & ASSOCIATES, INC.
Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

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704 N PERSON STREET
RALEIGH NC 27604
www.insitustudio.us

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EXISTING PANELBOARD APPH SCHEDULE

BUSS RATING: 400A 400A MCB, 277/480 V, 3 PHASE, 4 WIRE, 45 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
LTS PUMP HOUSE	1.10			20 1P EXIST	1	A	2	20 1P EXIST				SPARE
SPARE				20 1P EXIST	3	B	4	20 1P EXIST				SPARE
SPARE				20 1P EXIST	5	C	6	20 1P EXIST				SPARE
SPACE					7	A	8					SPACE
SPACE					9	B	10	20 3P EXIST				POWER SCOUT METER
SPACE					11	C	12					
SPACE					13	A	14					
SPACE					15	B	16					SPACE
SPACE					17	C	18					SPACE
PUMP PWP-2A	3.40			20 3P EXIST	19	A	20	20 3P EXIST	3.40			PUMP PWP-2B
		3.40			21	B	22			3.40		
			3.40		23	C	24				3.40	
PUMP RWP-1A	52.00			90 3P EXIST	25	A	26	90 3P EXIST	52.00			PUMP RWP-1B
		52.00			27	B	28			52.00		
			52.00		29	C	30				52.00	
PUMP PWP-1A	52.00			90 3P EXIST	31	A	32	90 3P EXIST	52.00			PUMP PWP-1B
		52.00			33	B	34			52.00		
			52.00		35	C	36				52.00	
PANEL PHLA VIA TRANSFORMER T-5	29.00			70 3P EXIST	37	A	38	80 3P NEW	44.23			PANEL MBH (MAINTENANCE BUILDING) * PROVIDE MATCHING BREAKER.
		25.10			39	B	40			37.90		
			23.00		41	C	42				25.50	
TOTAL	137.50	132.50	130.40						151.63	145.30	132.90	TOTAL
TOTAL CONNECTED AMPS				A: 290			B:278			C: 264		

PANELBOARD PHLA SCHEDULE

BUSS RATING: 225 150 MLB, 120/208 V, 3 PHASE, 4 WIRE, 22 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
CONTROLLER RWUV-1B	1.00			20 1P EXIST	1	A	2	20 1P EXIST	4.50			REC PUMP HOUSE
CONTROLLER RWUV-1A		1.00		20 1P EXIST	3	B	4	20 1P EXIST		4.50		REC PUMP HOUSE
REC DOCK			1.50	20 1P EXIST	5	C	6	20 1P EXIST			5.00	GEN BATTERY CHARGER
AHU-4	20.00			30 2P EXIST	7	A	8	30 2P EXIST	4.80			GEN ALT HEATER
		20.00			9	B	10			4.80		
HP-4			9.80	20 2P EXIST	11	C	12	30 2P EXIST			14.40	GEN JACKET HEATER
	9.80				13	A	14		14.40			
EDH-1		11.10		20 3P EXIST	15	B	16	20 1P EXIST		9.80		SUMP PUMP
			11.10		17	C	18	20 1P EXIST			5.00	SUMP PUMP CONTROLLER
	11.10				19	A	20	20 1P EXIST	1.00			CONTROLLER PWF-1
AB-1B		6.00		20 1P EXIST	21	B	22	20 1P EXIST		1.00		CONTROLLER PWF-2
AB-1A			6.00	20 1P EXIST	23	C	24	20 1P EXIST			1.00	CONTROLLER RWF-1
REC SECURITY DROP * PROVIDE MATCHING BREAKER.	5.00			20 1P NEW	25	A	26	80 3P EXIST	20.00			SUB PANEL IN GENERATOR ROOM
REC SECURITY POLE CAMERAS * PROVIDE MATCHING BREAKER.		5.00		20 1P NEW	27	B	28			20.00		
SPACE					29	C	30				20.00	
SPACE					31	A	32					SPACE
SPACE					33	B	34					SPACE
SPACE					35	C	36					SPACE
SPACE					37	A	38					SPACE
SPACE					39	B	40					SPACE
SPACE					41	C	42					SPACE
TOTAL	46.90	43.10	28.40						44.70	40.10	45.40	TOTAL
TOTAL CONNECTED AMPS				A: 91.6			B:83.2			C: 73.8		

PANELBOARD MBH SCHEDULE

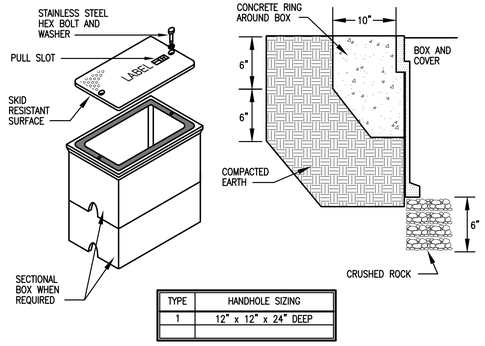
BUSS RATING: 225A 80A MCB, 277/480 V, 3 PHASE, 4 WIRE, 65 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
LTS INTERIOR	4.00			20 1P	1	A	2	20 3P	8.23			PANEL MBL VIA TRANSFORMER T-MBL
LTS EXTERIOR		2.00		20 1P	3	B	4			3.90		
EXHAUST FAN EF-1			2.00	20 1P	5	C	6				6.50	
UNIT HEATER UH-1	19.00			30 1P	7	A	8	30 3P	15.00			WELL HOUSE PUMP
UNIT HEATER UH-2		19.00		30 1P	9	B	10			15.00		
SPARE				20 1P	11	C	12				15.00	
SPARE				20 1P	13	A	14	20 1P				SPARE
SPARE				20 1P	15	B	16	20 1P				SPARE
SPARE				20 1P	17	C	18	20 1P				SPARE
TOTAL	23.00	21.00	2.00						23.23	18.90	21.50	TOTAL
TOTAL CONNECTED AMPS				A: 47			B:40			C: 24		

PANELBOARD MBL SCHEDULE

BUSS RATING: 60A 45A MCB 120/208 V, 3 PHASE, 4 WIRE, 22 KAIC MINIMUM SURFACE MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	BR TRIP	CKT NO	PH	CKT NO	BR TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD (AMPS) C	LOAD SERVED
REC MAINTENANCE BUILDING	9.00			20 1P	1	A	2	20 2P	5.00			PAVILION DISCONNECT SWITCH
REC MAINTENANCE BUILDING		6.00		20 1P	3	B	4			3.00		
WATER HEATER MAINTENANCE BUILDING			15.00	20 1P	5	C	6	20 1P				SPARE
SECURITY DROP	5.00			20 1P	7	A	8	20 1P				SPARE
SPARE				20 1P	9	B	10	20 1P				SPARE
SPARE				20 1P	11	C	12	20 1P				SPARE
TOTAL	14.00	6.00	15.00						5.00	3.00	0.00	TOTAL
TOTAL CONNECTED AMPS				A: 19			B:9			C: 15		



TYPE	HANDHOLE SIZING
1	12" x 12" x 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA FOR HEAVY DUTY, H20 LOADING.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL: "POWER SERVICE".

COMPOSITE/FIBERGLASS HANDHOLE

02-901

NO SCALE

BUILDING LOAD SUMMARY

LOAD	CONN LOAD (KVA) A	B	C	DEMAND FACTOR	DEMAND LOAD (KVA) A	B	C
EXISTING LOAD	100.0	100.0	100.0	125%	125.0	125.0	125.0
PANEL MBH (NEW LOAD)	12.0	11.0	8.0	SEE LOAD SUMMARY	12.0	11.0	8.0
TOTAL (KVA)	112.0	111.0	108.0		137.0	136.0	133.0
				CALCULATED AMPS:	490	488	472
				VOLTAGE:	277/480 V		
				SERVICE SIZE:	600 AMP		

PANEL MBH LOAD SUMMARY

LOAD SERVED	CONN LOAD (KVA) A	B	C	DEMAND FACTOR	DEMAND LOAD (KVA) A	B	C
INTERIOR LIGHTING *	1.11	0.55	0.00	125% **	1.39	0.69	0.00
HVAC	5.26	5.26	0.55	100% ****	5.26	5.26	0.55
EQUIPMENT	4.16	4.16	4.16	100%	4.16	4.16	4.16
PANEL MBL	2.28	1.08	1.80	SEE LOAD SUMMARY	2.28	1.08	1.80
TOTAL (KVA)	12.81	11.05	6.51		13.08	11.19	6.51
				AMPS	47.23	40.40	23.50
				VOLTAGE	277/480V		
				SERVICE SIZE	80 AMP		

* BASED ON NEC TABLE 220.12
** CONTINUOUS LOAD PER NEC
*** BASED ON NEC TABLE 220.44
**** FLA PLUS 25% OF LARGEST MOTOR LOAD
***** BASED ON NEC TABLE 220.56
****** BASED ON NEC TABLE 660.6 (A),(B)

PANEL MBL LOAD SUMMARY

LOAD SERVED	CONN LOAD (KVA) A	B	C	DEMAND FACTOR	DEMAND LOAD (KVA) A	B	C
RECEPTACLES	1.08	0.72	0.00	FIRST 10 KVA @ 100% REMAINDER KVA OVER 10 KVA @ 50%	1.08	0.72	0.00
WATER HEATER	0.00	0.00	1.80	100%	0.00	0.00	1.80
EQUIPMENT	1.20	0.36	0.00	100%	1.20	0.36	0.00
TOTAL (KVA)	2.28	1.08	1.80		2.28	1.08	1.80
				AMPS	19.00	9.00	15.00
				VOLTAGE	120/208V		
				SERVICE SIZE	45 AMP		

* BASED ON NEC TABLE 220.12
** CONTINUOUS LOAD PER NEC
*** BASED ON NEC TABLE 220.44
**** FLA PLUS 25% OF LARGEST MOTOR LOAD
***** BASED ON NEC TABLE 220.56
****** BASED ON NEC TABLE 660.6 (A),(B)

LEGEND

LEGEND NOTES:

1. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED UNDERGROUND AS NOTED.
2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.
4. CAPITAL LETTER BESIDE FIXTURE SYMBOL DENOTES FIXTURE TYPE WITH REFERENCE TO FIXTURE SCHEDULE.
5. MOUNTING HEIGHTS GIVEN BELOW SHALL BE FOLLOWED UNLESS NOTED ON THE FLOOR PLANS, SCHEDULES OR SHOWN DIFFERENT IN THE ARCHITECTURAL ELEVATIONS. ALL HEIGHTS ARE TO CENTER OF THE DEVICE.
6. "WP" SUBSCRIPT INDICATES WEATHER PROOF ENCLOSURE EQUAL TO TAYMAC MX3200 OR ENGINEER APPROVED EQUAL.

- CEILING MOUNTED LIGHTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
- WALL MOUNTED LIGHTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
- WALL MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. THE EMERGENCY BATTERY PACK SHALL BE CONNECTED AHEAD OF SWITCH/TIMECLOCK.
- SPOT OR FLOODLIGHT. SEE LIGHT FIXTURE SCHEDULE.
- EXIT LIGHT, ARROW INDICATES DIRECTION, TWO ARROWS INDICATE DOUBLE FACE. CONNECT AHEAD OF SWITCH.
- LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. THE EMERGENCY BATTERY PACK SHALL BE CONNECTED AHEAD OF SWITCH. SEE LIGHT FIXTURE SCHEDULE.
- S SINGLE POLE SWITCH, 20A, 48" AFF.
- S_M MOTOR RATED SWITCH WITH OVERLOADS.
- OCCUPANCY CEILING MOUNTED OCCUPANCY SENSOR
- DUPLEX RECEPTACLE, 20A, 125 VOLTS, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED.
- DUPLEX RECEPTACLE WITH GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION, 20A, 125 VOLT, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED.
- E EQUIPMENT CONNECTION
- 1 REVISION DESIGNATION
- # NEW WORK NOTE DESIGNATION
- ◇ GENERAL NOTE
- BRANCH CIRCUIT (CONDUIT AND WIRE) RUN CONCEALED IN WALL OR ABOVE CEILING UNLESS NOTED OTHERWISE. WIRE SIZE #12 UNLESS NOTED OTHERWISE.
- L-1 INDICATES CIRCUIT HOMERUN TO PANEL. LETTER & NUMBERS INDICATE PANEL DESIGNATION & CIRCUIT BREAKER NUMBER.
- T TRANSFORMER, KVA AS NOTED
- PANELBOARD, 120/208 VOLTS, SEE SCHEDULE
- PANELBOARD, 277/480 VOLTS, SEE SCHEDULE

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type) See Drawing
lamp type required in fixture See Drawing
number of lamps in fixture See Drawing
ballast type used in the fixture See Drawing
number of ballasts in fixture See Drawing
total wattage per fixture See Drawing
total interior wattage specified vs. allowed (whole building or space by space)
specified: 18 watts, allowed: 40 watts
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)

☐ C406.2 More Efficient HVAC Equipment Performance
■ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

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Email: hdm@hdmsite.com
NC LICENSE NO. C-1836
NC LICENSE NO. 0407033711

09/24/26

HDM#25008

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HDM ASSOCIATES, INC.
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PME/FIRE
Cost Estimation

10 01 26
scale as noted

IFB

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

PPE0.1 ELECTRICAL SCHEDULES

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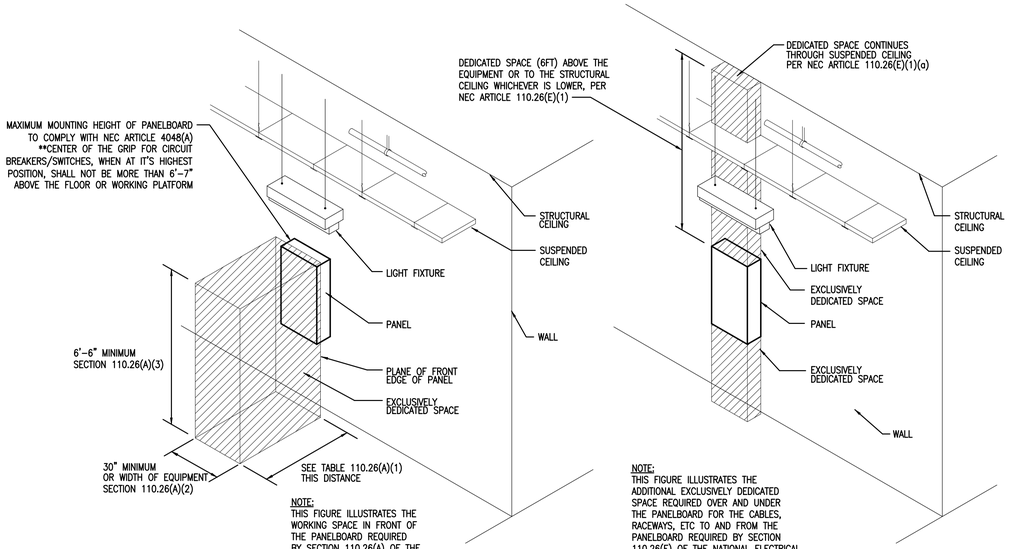


NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE PANELBOARD REQUIRED BY SECTION 110.26(A) OF THE NATIONAL ELECTRICAL CODE

NOTE:
THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE PANELBOARD FOR THE CABLES, RACEWAYS, ETC TO AND FROM THE PANELBOARD REQUIRED BY SECTION 110.26(E) OF THE NATIONAL ELECTRICAL CODE

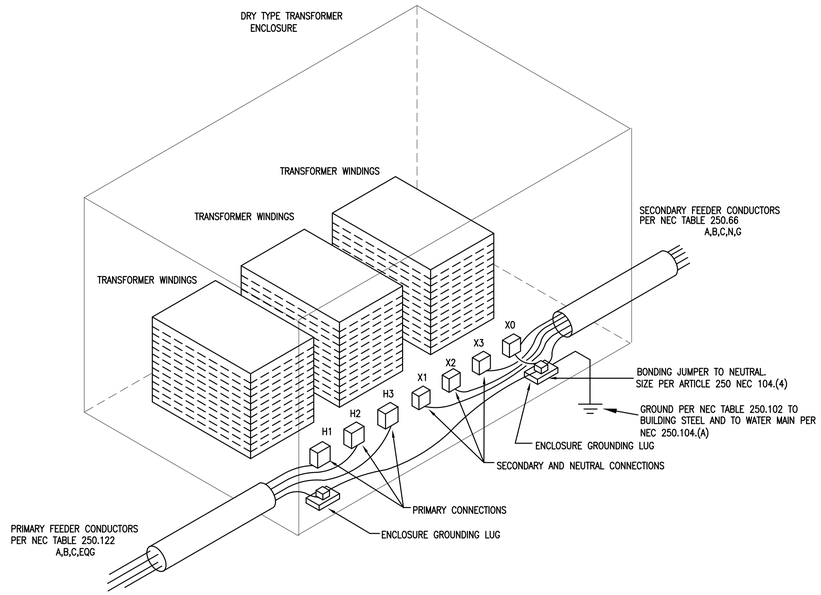
TABLE 110.26(A)(1)	WORKING CLEARANCES		
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE (FEET) CONDITION: 1	2	3
0–150	3	3	3
151–600	3	3 1/2	4
600–1000	3	4	5

WHERE THE "CONDITIONS" ARE AS FOLLOWS:
1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATE BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. 2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. 3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTES:
NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE

ELECTRICAL EQUIPMENT WORK SPACE REQUIREMENTS DETAIL PER NEC 110.26(A)

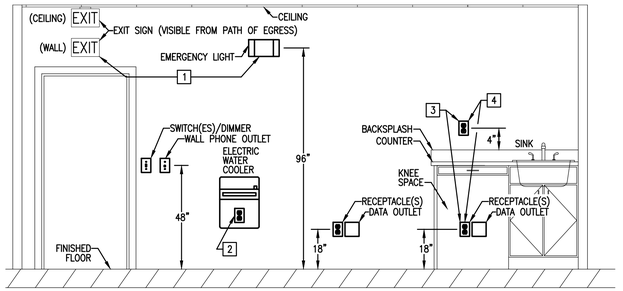
NO SCALE



DRY TRANSFORMER GROUNDING DETAIL

NOT TO SCALE

ED-016



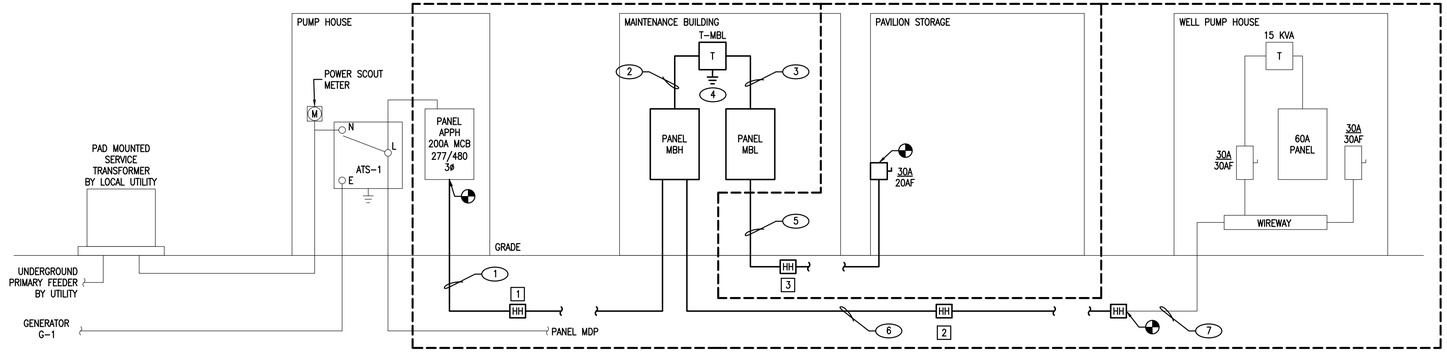
ELECTRICAL DEVICE INSTALLATION DETAIL [5] [6]

NO SCALE

ED-012

ELECTRICAL DEVICE INSTALLATION DETAIL NOTES

1. ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
2. RECEPTACLE SHALL BE GFCI TYPE. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
3. COORDINATE ALL RECEPTACLE LOCATIONS NEAR MILLWORK WITH MILLWORK BEFORE ROUGH IN.
4. ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE.
5. RECEPTACLE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
6. ALL MOUNTING HEIGHTS GIVEN ARE TO CENTER OF DEVICE. UNLESS NOTED OTHERWISE.



POWER RISER DIAGRAM (PARTIAL)

NO SCALE

POWER RISER DIAGRAM NOTES

1. PROVIDE HANDHOLE. SEE SITE PLAN. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "MAINTENANCE BUILDING POWER SERVICE".
2. PROVIDE HANDHOLE. SEE SITE PLAN. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "WELL PUMP HOUSE BUILDING POWER SERVICE".
3. PROVIDE HANDHOLE. SEE SITE PLAN. COORDINATE LOCATION WITH ENGINEER. PROVIDE LABEL INDICATING: "PAVILION BUILDING POWER SERVICE".

TRANSFORMER SCHEDULE

MARK	RATING (KVA)	480V PRIMARY (DELTA) 3ø, 3 WIRE			120/208V SECONDARY (Y) 3ø, 4 WIRE			
		RATING (AMPS)	PRIMARY FEEDERS	MOCP (AMPS)	RATING (AMPS)	SECONDARY FEEDERS	MOCP (AMPS)	GROUNDING ELECTRODE CONDUCTOR
T-MBL	15	18	3#12, 1#12G IN 3/4" CONDUIT	20	41.6	4#8, 1#8G IN 3/4" CONDUIT	45	1#8G IN 3/4" CONDUIT

NOTES: FEEDER SIZED FOR NO MORE THAN 100 FEET.

FEEDER SCHEDULE

MARK	TYPE	DESCRIPTION	RATING (AMPS)
1	FEEDER (1000 FT)	4#2, 1#10G IN 1 1/4" CONDUIT	40
2	FEEDER	SEE TRANSFORMER SCHEDULE	–
3	FEEDER	SEE TRANSFORMER SCHEDULE	–
4	GROUND	SEE TRANSFORMER SCHEDULE	–
5	FEEDER (300 FT)	3#6, 1#12G IN 1" CONDUIT	20
6	FEEDER (250 FT)	4#6, 1#10G IN 1" CONDUIT	30
7	EXISTING FEEDER	4#6, 1#10G IN 1" CONDUIT	30

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tarheel Court
Elizabeth City, NC
Phone: 252-668-3003
Email: hdma@mindspring.com
NC LICENSE NO. C-1838
VA LICENSE NO. 0407000711

09/24/26

HDMA#25008

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KIMLEY-HORN & ASSOCIATES, INC.
LYSAGHT & ASSOCIATES
HDM ASSOCIATES, INC.
LYSAGHT & ASSOCIATES
Consultants Landscape/Civil
Structural
PME/FIRE
Cost Estimation

IFB

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scale as noted

HISTORIC YATES MILL COUNTY PARK
4820 LAKE WHEELER RD
RALEIGH, NC 27603

PPE0.2 ELECTRICAL DETAILS

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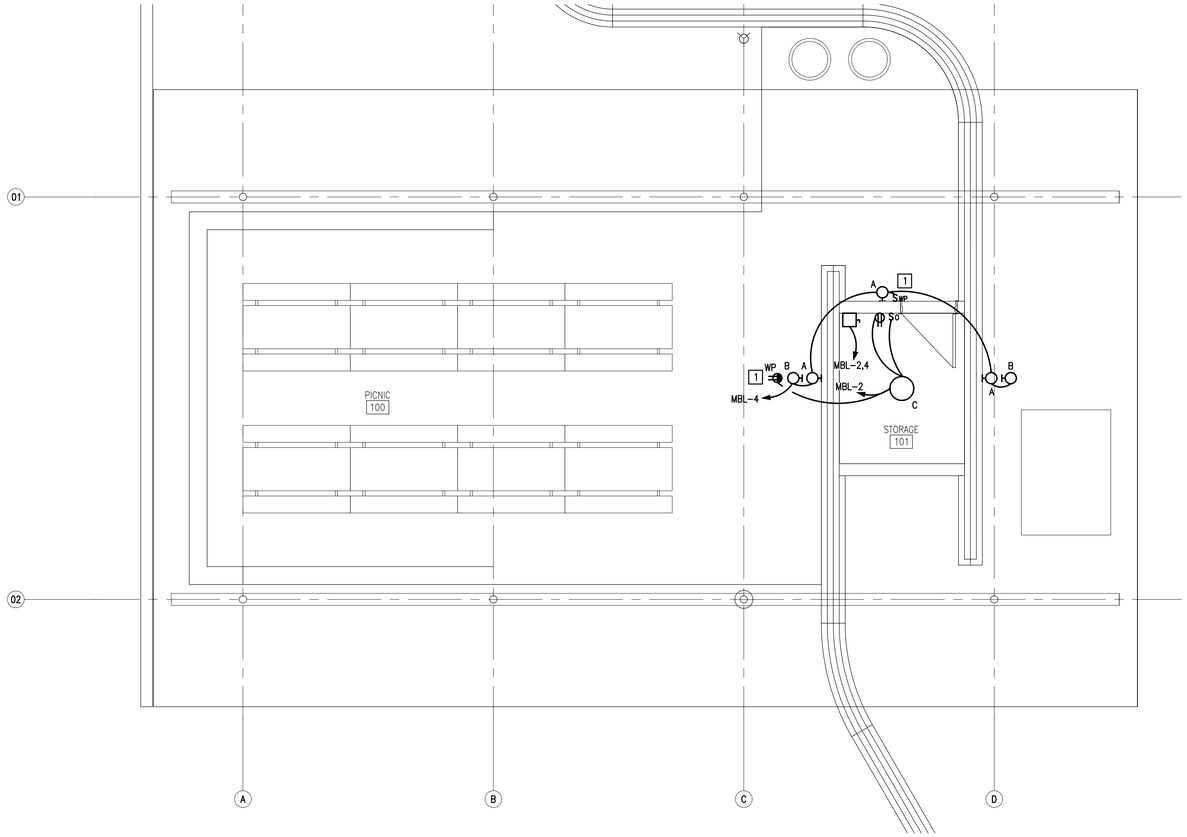

ELECTRICAL FLOOR PLAN – PAVILION – NEW WORK

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

NEW WORK NOTES

[1] PROVIDE LOCKABLE COVER FOR DEVICE.

LIGHT FIXTURE SCHEDULE ①②③

TYPE	MANUFACTURER	CATALOG NO.	LAMPS		VOLTAGE	WATTS	BALLAST		MOUNTING	DESCRIPTION	NOTES
			NO.	TYPE		FIXTURE	NO.	TYPE			
A	RBW	DP-WS-S1-AA01-35-HO_1_10V_UNV-IP65	–	LED	120	9	–	–	WALL	EXTERIOR WALL LIGHT	④
B	BEGA	B33224-K4-BRZ	–	LED	120	13	–	–	WALL	EXTERIOR WALL UPWARD LIGHT	⑤
C	BROWNLEE	2061-14-WH-R18-FL1-35K	–	LED	120	18	–	–	SURFACE	14" ROUND LIGHT	

NOTES:

① PROVIDE EMERGENCY BATTERY PACK WHERE INDICATED ON PLANS.

② LIGHT FIXTURE SUBSTITUTIONS WILL BE CONSIDERED DURING THE BIDDING PHASE UNTIL SEVEN (7) DAYS PRIOR TO THE RECEIPT OF BIDS. NO SUBSTITUTIONS WILL BE CONSIDERED AFTER SEVEN (7) DAYS PRIOR TO THE RECEIPT OF BIDS. SEE INSTRUCTION TO BIDDERS, PARAGRAPH 4, SUBSTITUTIONS.

③ PROVIDE ALL REQUIRED MOUNTING MATERIALS AND ACCESSORIES TO MOUNT FIXTURE AT HEIGHT INDICATED. COORDINATE HEIGHT WITH ARCHITECTURAL SHEETS

④ MOUNT FIXTURE 6'-0" ABOVE FINISHED GRADE.

⑤ MOUNT FIXTURE 7'-0" ABOVE FINISHED GRADE.

GRAPHIC SCALE

1/4" = 1'-0"

2' 0 2' 4' 8'

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106 Tattnall Court
Elizabeth City, NC
Phone: 252.668.3003
Email: hdma@hmdesigngroup.com
NC LICENSE NO. C-1836
VA LICENSE NO. 0407003711

09/24/26

HDM#25008

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Consultants
Landscape/Civil KIMLEY-HORN & ASSOCIATES, INC.
Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

IFB

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scale as noted

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PPE1.0

ELECTRICAL FLOOR PLAN - PAVILION - NEW WORK

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Historic Yates Mill County Park - VISITOR CENTER OFFICE RENOVATION

Wake County Facilities Design & Construction

4620 Lake Wheeler Road
Raleigh, NC 27603

ISSUED FOR BID

VICINITY MAP

RENDERING

MATERIAL SPECIFICATIONS

641	ARCHITECTURAL CABINETS	963	EXISTING STONE FLOOR
646	WOOD TRIM	1236	COUNTERTOP
811	HOLLOW METAL DOOR		
852	EXISTING STOREFRONT WINDOWS		
929	PTD GYPSUM BOARD		
951	ACOUSTIC TILE CEILING		
968	CARPET TILE		

DRAWING LIST

SHEET #	SHEET NAME
VC.A0.0	COVER SHEET
VC.A0.1	APPENDIX B
VC.A0.2	APPENDIX B CONT'D
VC.A0.3	EXISTING + PROPOSED LIFE SAFETY PLAN
VC.A2.1	EXISTING FLOOR PLAN + REFLECTED CEILING PLAN
VC.A2.2	DEMOLITION FLOOR PLAN + REFLECTED CEILING PLAN
VC.A2.3	PROPOSED FLOOR PLAN + REFLECTED CEILING PLAN
VC.A3.2	PROPOSED INTERIOR ELEVATIONS + WINDOW SCHEDULE
VC.S1.0	GENERAL STRUCTURAL NOTES, FLOOR PLAN & NOTES
VC.M1.0	MECHANICAL FLOOR PLAN - VISITOR'S CENTER
VC.E1.0	ELECTRICAL FLOOR PLAN - VISITOR'S CENTER
VC.E1.1	ELECTRICAL FLOOR PLAN - VISITOR'S CENTER
VC.FA1.0	FIRE ALARM FLOOR PLAN - VISITOR'S CENTER

ABBREVIATIONS

@	at
AFF	above finish floor
ALUM	aluminum
BO	bottom of
CIP	cast-in-place
CL	centerline
CJ	control/construction joint
CPT	common path of travel
EQ	equal
FFE	finished floor elevation
FEC	fire extinguisher + cabinet
FIN	finish
FO	face of
GA	gauge
GALV	galvanized
LOD	limits of disturbance
MAX	maximum
MED	maximum egress distance
MIN	minimum
NIC	not in contract
NTS	not to scale
OC	on center
PTD	painted
REF	reference
REV	reverse
SIM	similar
SF	square feet
SS	stainless steel
TO	top of
TPF-SF	tree protection fence silt
TYP	typical
UON	unless otherwise noted
VIF	verify in field

PROJECT CONTACT

PROPERTY OWNER:
WAKE COUNTY FACILITIES DESIGN AND CONSTRUCTION
336 FAYETTEVILLE ST.
RALEIGH, NC 27601
CONTACT: ERIC STAEHLE
PHONE: 919 418 0603
EMAIL: ERIC.STAEHLE@WAKE.GOV

PRIME/LANDSCAPE/CIVIL:
KIMLEY-HORN & ASSOCIATES, INC.
421 FAYETTVILLE ST., SUITE 600
RALEIGH, NC 27610
LANDSCAPE CONTACT: NICK KUHN, PLA
PHONE: 314 706 3104
EMAIL: NICK.KUHN@KIMLEY-HORN.COM
CIVIL CONTACT: JOHN KUZENSKI, PE
PHONE: 919 653 2990a
EMAIL: JOHN.KUZENSKI@KIMLEY-HORN.COM

ARCHITECT:
IN SITU STUDIO
704 N. PERSON ST.
RALEIGH, NC 27604
CONTACT: ZACH HOFFMAN AIA
PHONE: 704 301 4750
EMAIL: ZACH@INSITUSTUDIO.US

STRUCTURAL ENGINEER:
LYSAGHT & ASSOCIATES, P.A. STRUCTURAL ENGINEERS
120 ST. MARY'S ST.
RALEIGH, NC 27605
CONTACT: MARK BLANKINSHIP
PHONE: 919 833 0495
EMAIL: MARKB@LYSAGHTASSOCIATES.COM

PME
HDM ASSOCIATES, INC.
106 TARHEEL COURT
ELIZABETH CITY, NC 27909
CONTACT: RICHARD T. THORNE
PHONE: 252 698 3003
EMAIL: HDMA@MINDSPRING.COM

COST ESTIMATION:
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06 03 26
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Consultants
KIMLEY-HORN & ASSOCIATES, INC. — Landscape/Civil
LYSAGHT & ASSOCIATES — Structural
HDM ASSOCIATES, INC. — PME/FIRE
LYSAGHT & ASSOCIATES — Cost Estimation

IFB

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scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

coversheet

VC.A0.0

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **Historic Yates Mill County Park - Visitor Center Upfit**
Address: **4620 Lake Wheeler Road** Zip Code **27603**
Owner/Authorized Agent: **Zach Hoffman** Phone # (**704**) **301** - **4750** E-Mail **zach@insitustudio.us**
Owned By: ☐ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City_____ ☒ County **Wake** ☐ State

CONTACT: _____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	**in situ studio**	**Zach Hoffman, AIA**		**(704) 301**	**4750**
Civil				(___)	
Electrical	**HDM Associates**	**Richard Thorne, PE**		**(252) 698**	**3003**
Fire Alarm	**HDM Associates**	**Richard Thorne, PE**		**(252) 698**	**3003**
Plumbing	**HDM Associates**	**Richard Thorne, PE**		**(252) 698**	**3003**
Mechanical	**HDM Associates**	**Richard Thorne, PE**		**(252) 698**	**3003**
Sprinkler-Standpipe	**-**	**-**		(___)	
Structural	**Lysaght + Assoc.**	**Mark Blankenship, PE**		**(919) 414**	**0188**
Retaining Walls >5' High	**-**	**-**		(___)	
Other				(___)	

("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: ☐ New Construction ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core
☐ Phased Construction – Shell/Core
☐ Renovation

2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☒ Level II ☐ Level III
☐ Historic Property ☐ Change of Use
CONSTRUCTED:(date) _____ **ORIGINAL OCCUPANCY(S)** (Ch. 3): **A3 (ASSUMED)**
RENOVATED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RISK CATEGORY (table 1604.5) **Current:** ☐ I ☒ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) **Flood Hazard Area:** ☐ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes

CALCULATIONS BASED ON LIMITS OF DISTURBANCE ONLY
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ.FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	**1,067 SF**	**0 SF**	**1,067 SF**	**1,067 SF**
Basement				
TOTAL				**1,067 SF**

ALLOWABLE AREA

Primary Occupancy Classification: **SELECT ONE**
Assembly ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): **N/A**
Incidental Uses (Table 509)**:** **N/A**
Special Uses (Chapter 4 – List Code Sections) **N/A**
Special Provisions: (Chapter 5 – List Code Sections): **N/A**
Mixed Occupancy: ☒ No ☐ Yes Separation: ____ Hr. Exception: _____
☒ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) -
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30$ = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)			

[1] Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1
[3] The maximum height of open parking garages must comply with Table 406.5.4

N/A - NO CHANGE TO EXISTING

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Column Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

N/A - NO CHANGE TO EXISTING

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial _____
Carbon Monoxide Detection: ☐ No ☒ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: **VC.A0.3**

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distances (1017)
☒ Common path of travel distances (1006.2.1 & 2006.3.2(1))
☐ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☒ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED: VAN SPACES WITH 132" ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED: VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)

N/A - NO CHANGE TO EXISTING

06 03 26
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HDM ASSOCIATES, INC.
LYSAGHT & ASSOCIATES

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HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

appendix b

VC.A0.1

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC, not required for ASHRAE 90.1)

REF ELECTRICAL DRAWINGS

☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

REF MECHANICAL DRAWINGS

heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)
Historic Yates Mill - Visitor's Center Upfit

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_s) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7) ASCE 7-10
Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_s 15.8 %g S_1 7.8 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data

Basic structural system
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☒ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ☒ Simplified ☐ Equavalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒ Note: This project is an upfit and the lateral force resisting system is not disturbed

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 3,000 psf Terracon Report - Project No. 70255183 dated 12/12/25
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity N/A

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here) _____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____

N/A - NO CHANGE TO EXISTING

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

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ZACHARY SCOTT HOFFMAN
REGISTERED ARCHITECT
NO. 14288
NORTH CAROLINA
RALEIGH, N.C.

in situ studio
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www.insitustudio.us

Consultants
KIMLEY-HORN & ASSOCIATES, INC.
LYSAGHT & ASSOCIATES
HDM ASSOCIATES, INC.
LYSAGHT & ASSOCIATES
Landscape/Civil
Structural
PME/FIRE
Cost Estimation

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HISTORIC YATES MILL COUNTY PARK
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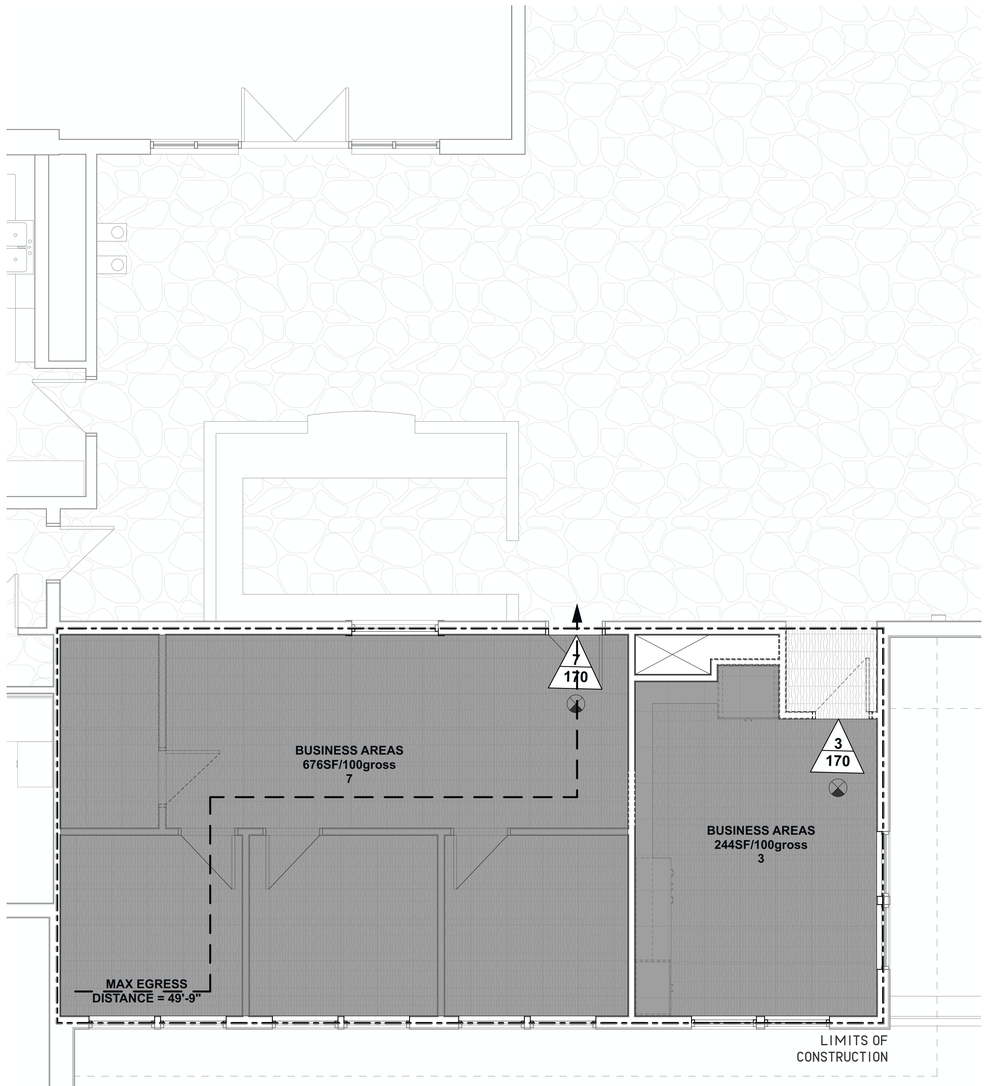
appendix b cont.

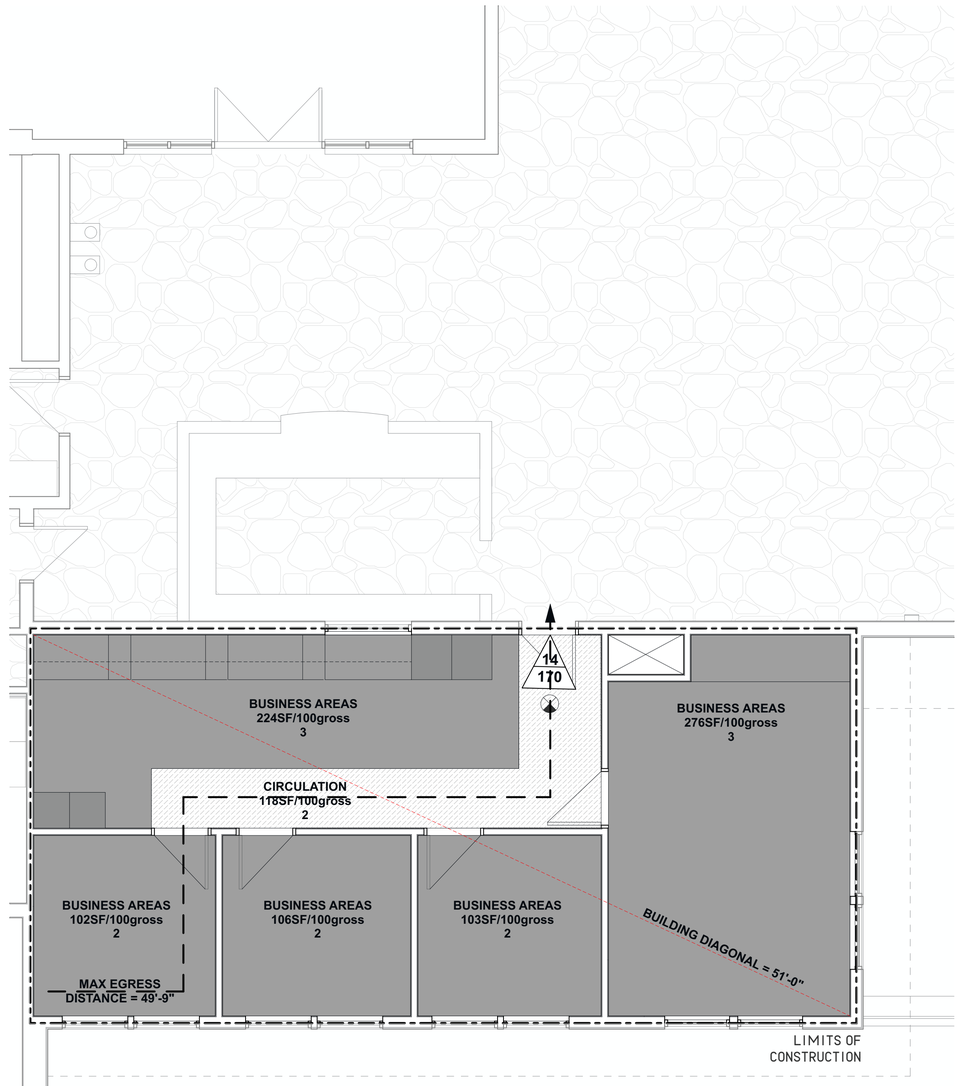
VC.A0.2

OCCUPANCY	INTERIOR	B - BUSINESS	TYPE V-B CONSTRUCTION	926 SF
	MAX SIZE - NS - 9000SF (506.2)			
	TABLE 602 - FIRE SEPARATION > 30' - 0 HOURS FOR EXTERIOR WALLS			
	808 SF 118 SF	business areas circulation	100 gross 100 gross	12 occupants 2 occupants
			TOTAL	14 occupants
LEGEND	business areas (100 gross)		circulation (100 gross)	
	exit signage			

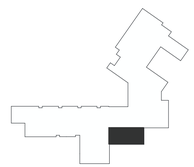
*SPACES WITH ONE EXIT - MAX 49 OCCUPANTS FOR FIRST STORY ASSEMBLY OCC.



02 VC.A0.3 existing life safety plan
SCALE: 1/4" = 1'-0"



01 VC.A0.3 proposed life safety plan
SCALE: 1/4" = 1'-0"



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life safety plan

VC.A0.3

EXISTING PLANS FOR REFERENCE ONLY

FLOOR PLAN LEGEND

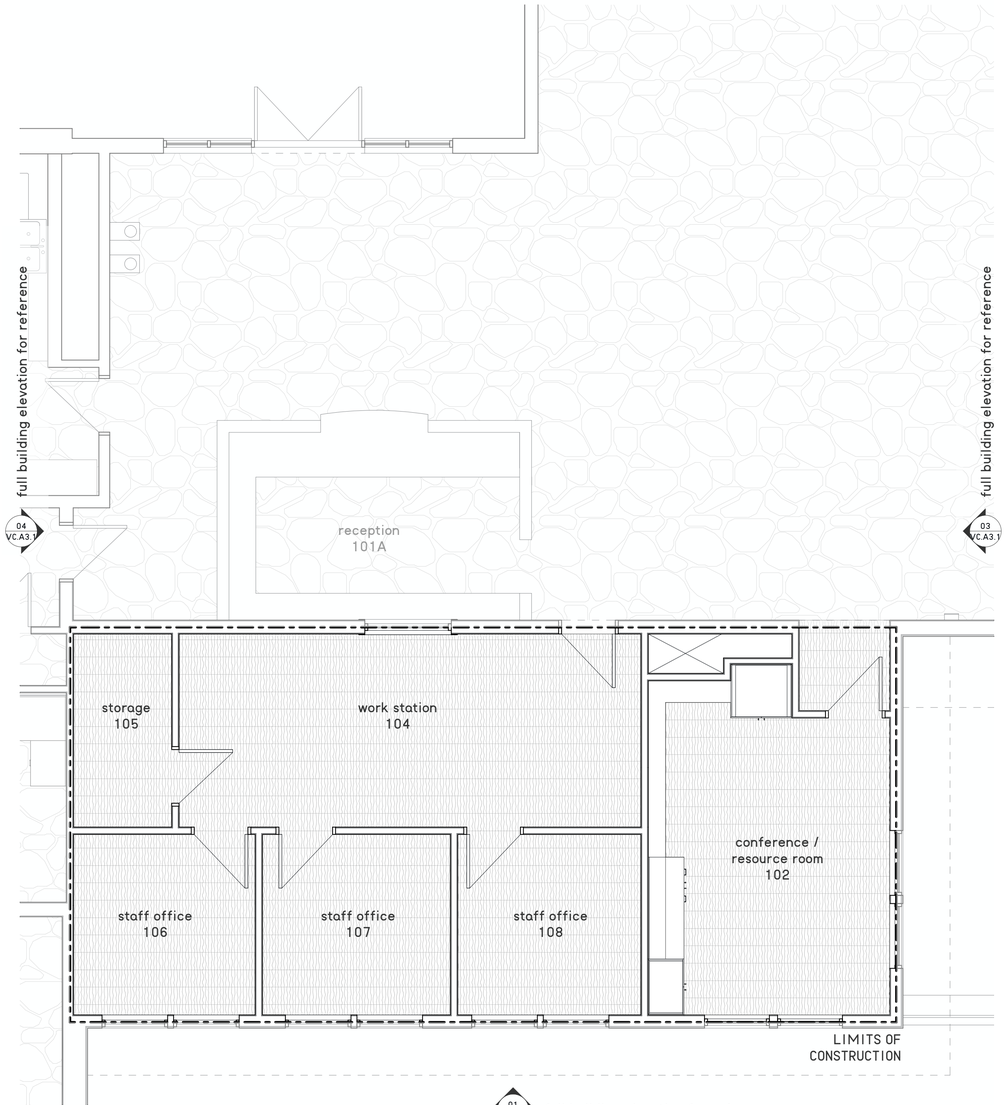
- carpet tile
- existing stone tile

02 VC.A3.1 full building elevation for reference

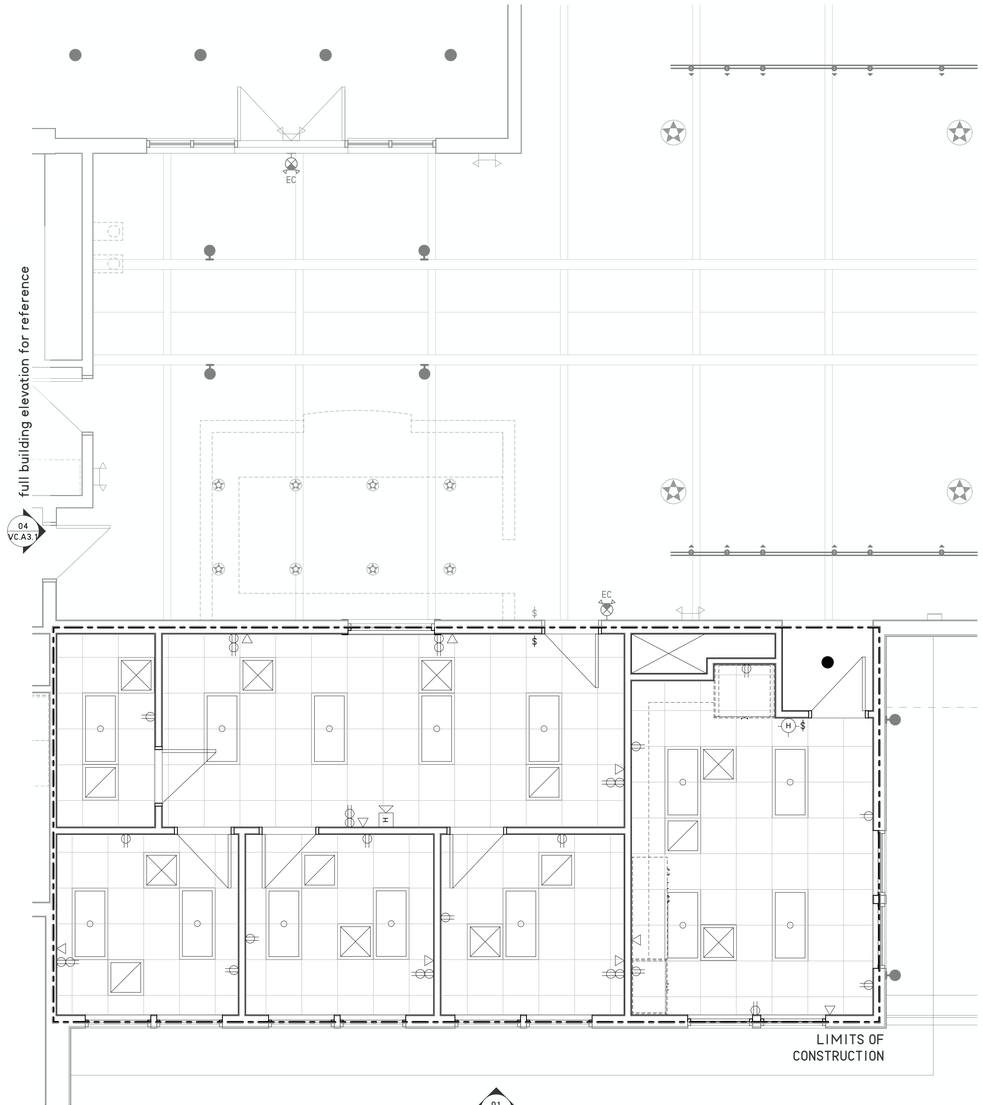
full building elevation for reference

full building elevation for reference

full building elevation for reference



02 VC.A2.1 existing floor plan
SCALE: 1/4" = 1'-0"



01 VC.A2.1 existing reflected ceiling plan
SCALE: 1/4" = 1'-0"

EXISTING RCP LEGEND

- pendant light
- 8" can light
- wall mounted light
- track light
- emergency light
- lay in grid light
- lay in grid supply
- lay in grid return
- wall mounted exit sign
- 2x2 lay in ceiling grid
- wall mounted electrical outlet
- wall mounted data
- wall mounted horn strobe
- wall mounted horn strobe

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existing floor
plan + rcp

VC.A2.1

DEMO PLAN LEGEND

- carpet tile
- existing stone tile
- existing to remain
- existing to be removed. ref demo notes

DEMO PLAN NOTES

01 Reception desk + area to remain as is. Path of egress not changed.

02 Remove interior walls and doors where dashed.

03 Remove interior walls where dashed. Replace with new doors as noted.

04 Remove millwork.

05 Owner to remove all appliances + furniture desired to be kept prior to construction. Contractor responsible for disposal of anything left

06 Remove carpet.

07 NOTE: Some slab demo + patching will be required per PME dwg.

GENERAL

Repair wall finishes to match adjacent and paint.

DEMO RCP NOTES

01 Existing lights to remain.

02 Remove lights per PME demo dwgs.

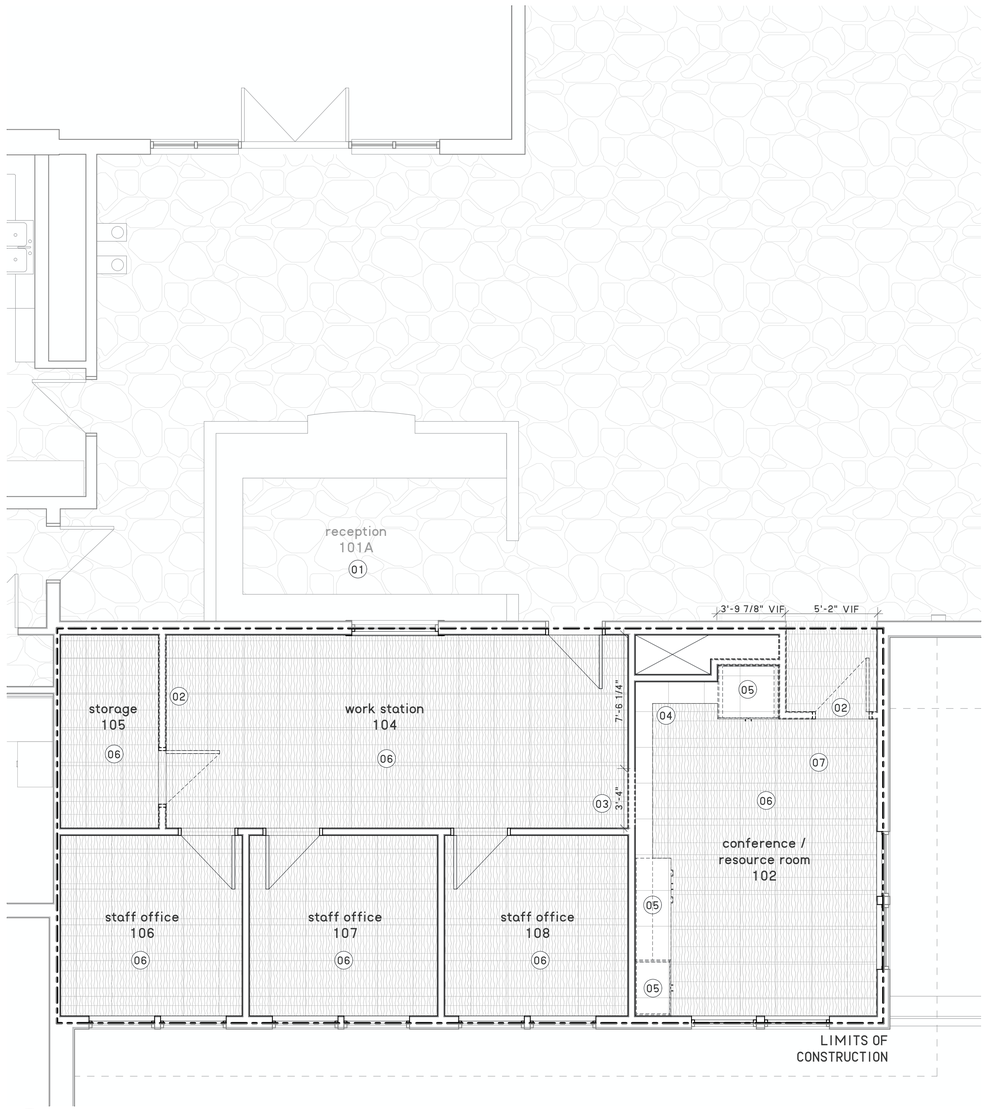
03 Remove lay in ceiling return and supply back to plenum. Replace with new vents in ceiling grid. REF PME dwgs.

04 Remove lay in ceiling grid.

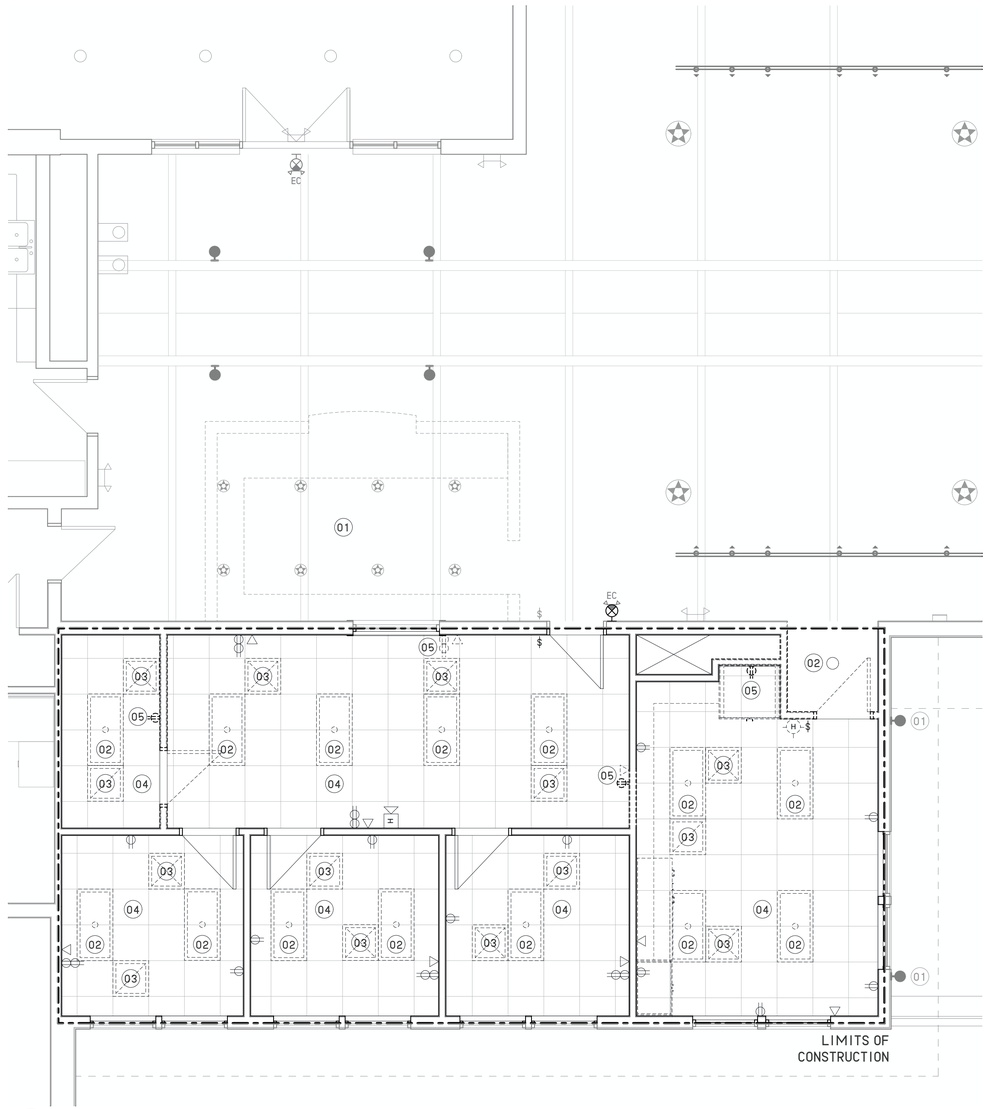
05 Remove data + outlets per PME demo dwgs.

GENERAL

Remove + protect all existing FA devices per PME dwgs.



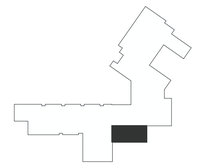
02 / VC.A2.2 demolition floor plan
SCALE: 1/4" = 1'-0"



01 / VC.A2.2 demolition reflected ceiling plan
SCALE: 1/4" = 1'-0"

EXISTING RCP LEGEND

- existing to be removed. ref demo notes
- pendant light
- 8" can light
- wall mounted light
- track light
- emergency light
- lay in grid light
- lay in grid supply
- lay in grid return
- wall mounted exit sign
- 2x2 lay in ceiling grid
- wall mounted electrical outlet
- wall mounted data
- wall mounted horn strobe
- wall mounted horn strobe



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Cost Estimation LYSAGHT & ASSOCIATES

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demolition floor plan + rcp

VC.A2.2

FINISH SCHEDULE

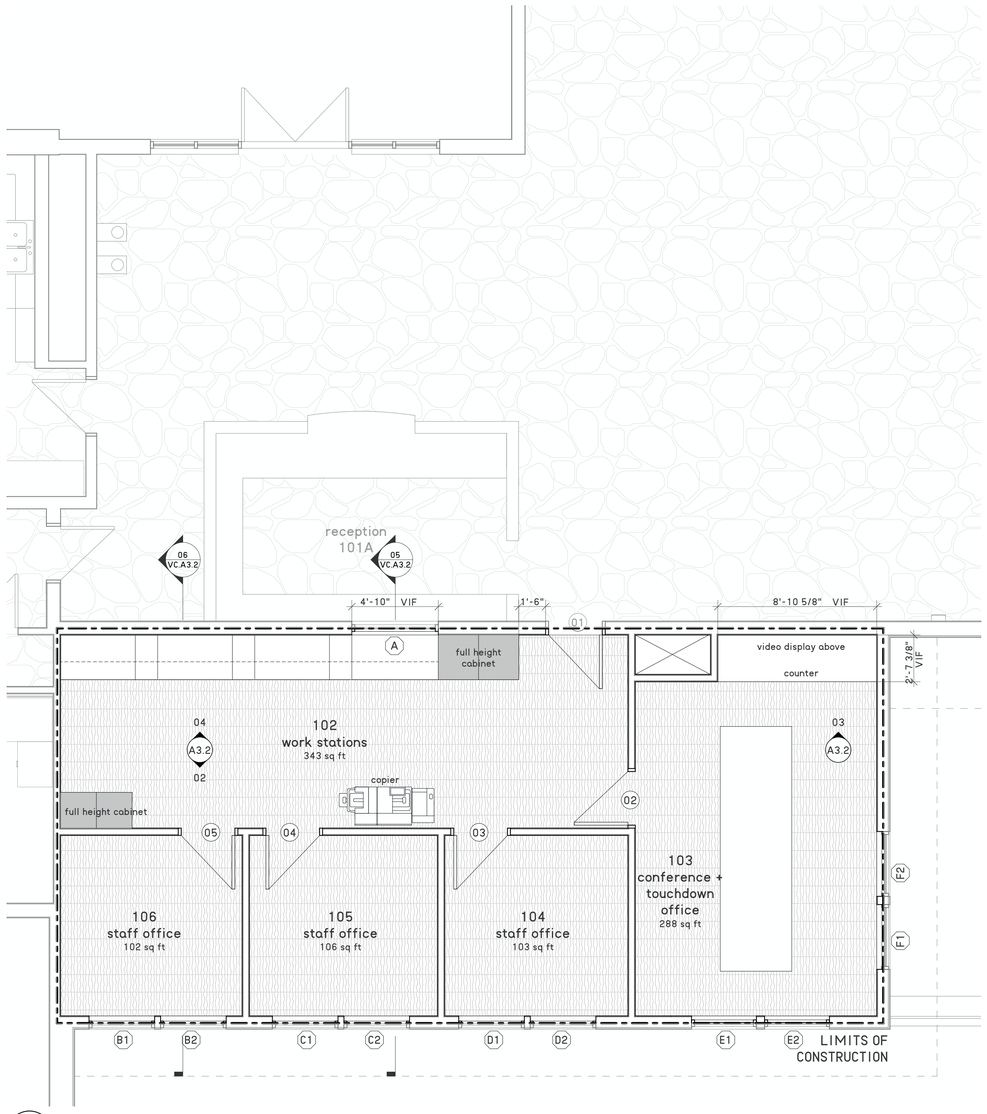
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING MATERIAL	CEILING HEIGHT	NOTES
102	work stations	carpet tile	ptd wd	wd millwork + ptd gyp bd	lay in ceiling grid	8'-6"	-
103	conference + touchdown	carpet tile	ptd wd	wd millwork + ptd gyp bd + windows	lay in ceiling grid	8'-6"	wall mounted video display
104	staff office	carpet tile	ptd wd	ptd gyp bd + windows	lay in ceiling grid	8'-6"	-
105	staff office	carpet tile	ptd wd	ptd gyp bd + windows	lay in ceiling grid	8'-6"	-
106	staff office	carpet tile	ptd wd	ptd gyp bd + windows	lay in ceiling grid	8'-6"	-

DOOR SCHEDULE

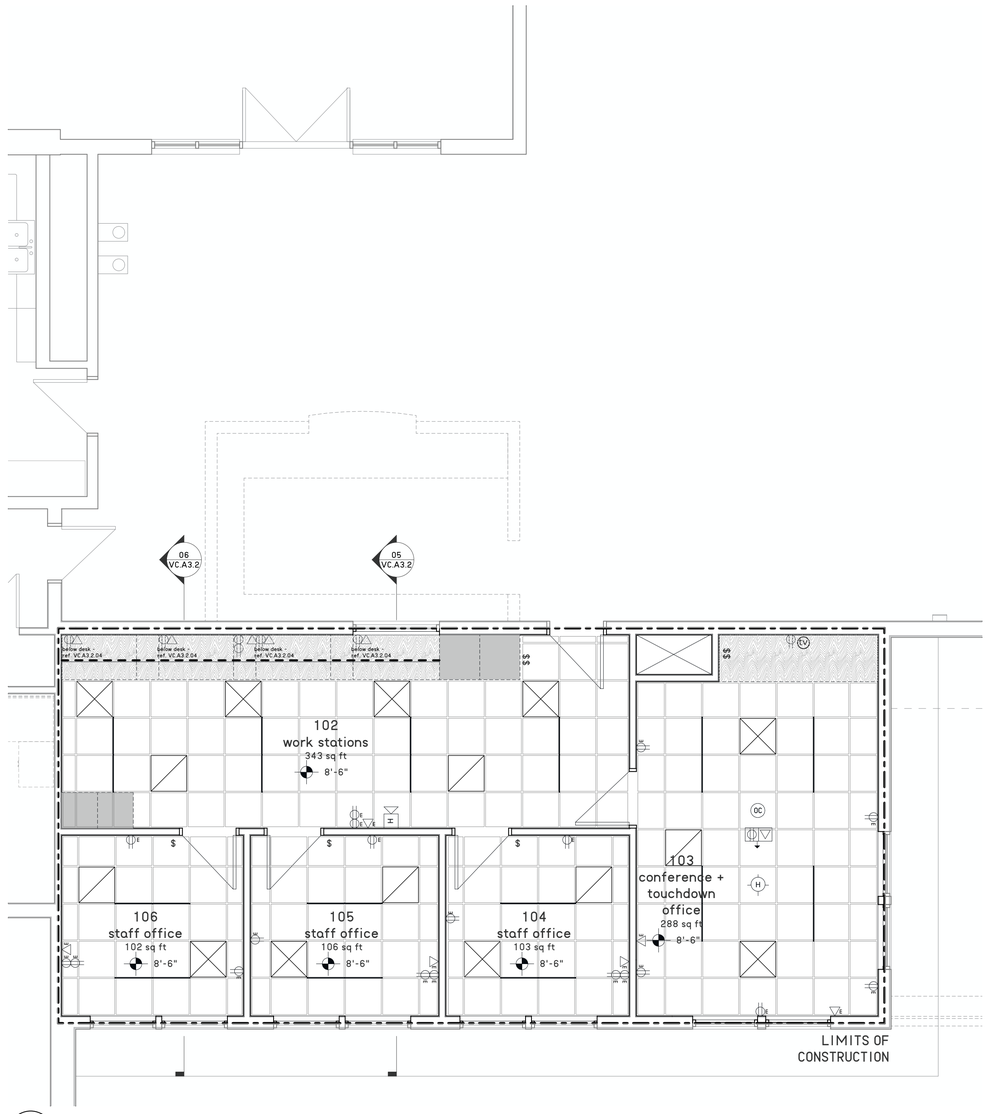
DOOR #	POSITION	TYPE	WIDTH	HEIGHT	DOOR	FRAME	FACE	CORE	THICKNESS	HARDWARE	NOTES
01	interior	single	3'-0"	6'-10"	existing	existing	existing	existing	existing	existing	paint existing door
02	interior	single	3'-0"	6'-10"	wd	hm	flush	solid	1 3/4"	latch + lock	HDW per allowance - match existing adjacent doors
03	interior	single	3'-0"	6'-10"	existing	existing	existing	existing	existing	existing	paint existing door
04	interior	single	3'-0"	6'-10"	existing	existing	existing	existing	existing	existing	paint existing door
05	interior	single	3'-0"	6'-10"	existing	existing	existing	existing	existing	existing	paint existing door

FLOOR PLAN LEGEND

- carpet tile floor
- existing stone floor
- full height cabinet



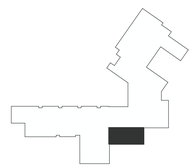
02 VC.A2.3 proposed floor plan
SCALE: 1/4" = 1'-0"



01 VC.A2.3 proposed reflected ceiling plan
SCALE: 1/4" = 1'-0"

PROPOSED RCP LEGEND

- recessed ceiling grid linear light
- $ switch
- wall mounted electrical outlet
- existing wall mounted electrical outlet
- wall mounted data
- existing wall mounted data
- floor outlet + data
- led light strip
- full height cabinet
- 24" lay in ceiling grid
- in ceiling supply
- in ceiling return
- ceiling mounted strobe
- wall mounted horn strobe
- occupancy censor



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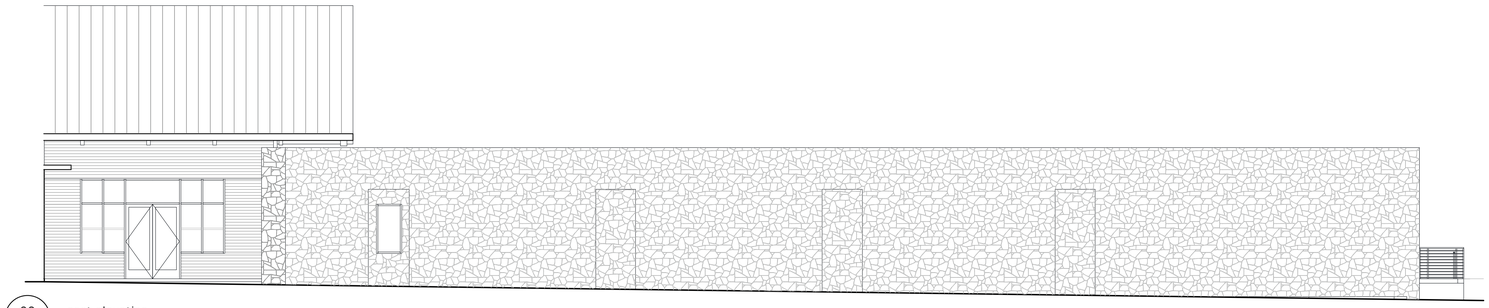
proposed floor plan + rcp

VC.A2.3

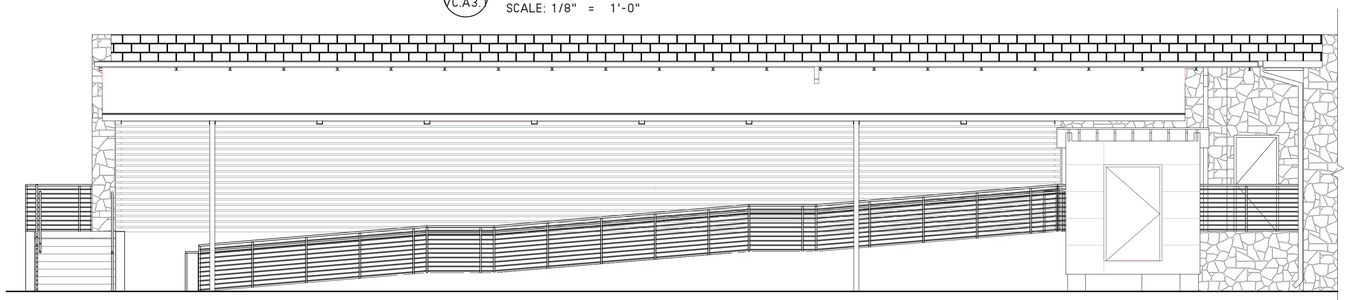
EXISTING ELEVATIONS FOR REFERENCE ONLY



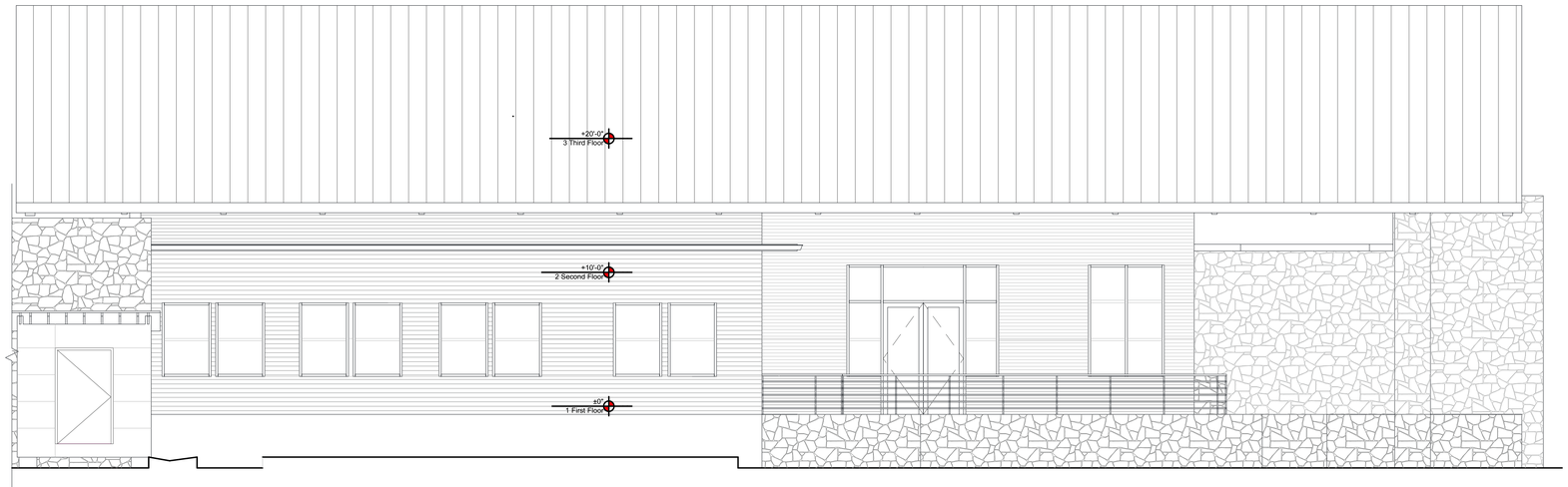
02 / VC.A3.1 east elevation
SCALE: 1/8" = 1'-0"

03 / VC.A3.1 south elevation
SCALE: 1/8" = 1'-0"

04 / VC.A3.1 north elevation
SCALE: 1/8" = 1'-0"



01 / VC.A3.1 west elevation
SCALE: 3/16" = 1'-0"



01 / VC.A3.1 west elevation
SCALE: 3/16" = 1'-0"

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PME/FIRE — HDM ASSOCIATES. INC.
Cost Estimation — LYSAGHT & ASSOCIATES

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HISTORIC YATES MILL COUNTY PARK
4820 LAKE WHEELER RD
RALEIGH NC 27603

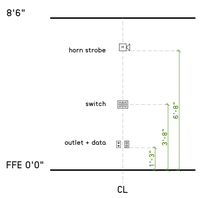
existing building elevations

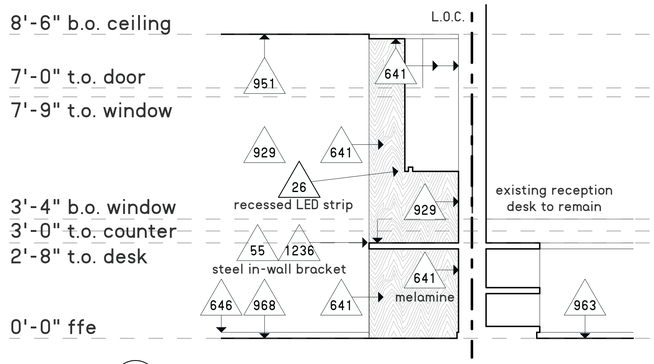
VC.A3.1

MATERIAL LEGEND

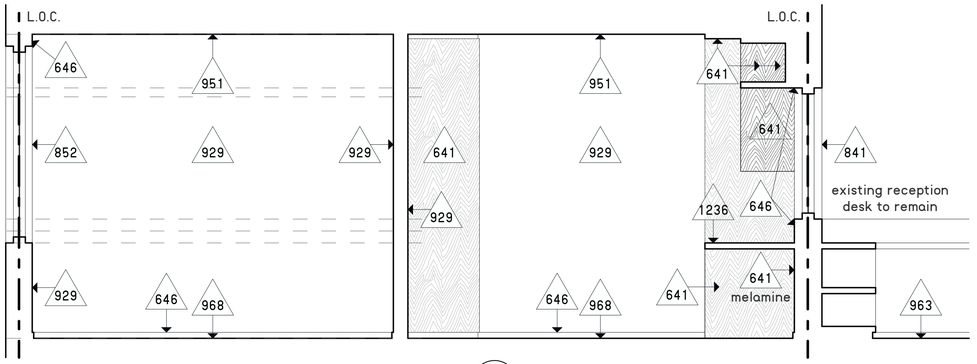
- 641 MILLWORK
- 646 WOOD TRIM
- 811 HOLLOW METAL DOOR
- 841 EXISTING STROREFRONT WINDOWS
- 929 PTD GYP BD
- 951 ACOUSTIC TILE CEILING
- 968 CARPET TILE
- 963 EXISTING STONE FLOOR
- 1236 COUNTERTOP

ALIGNMENTS

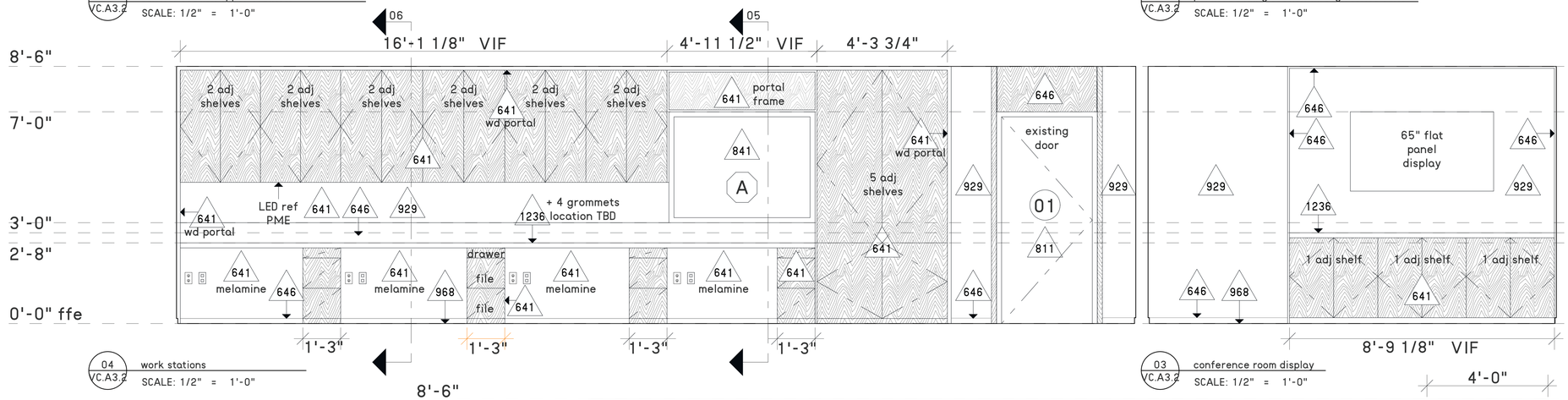




06 VC.A3.2 contour section upper cabinets
SCALE: 1/2" = 1'-0"

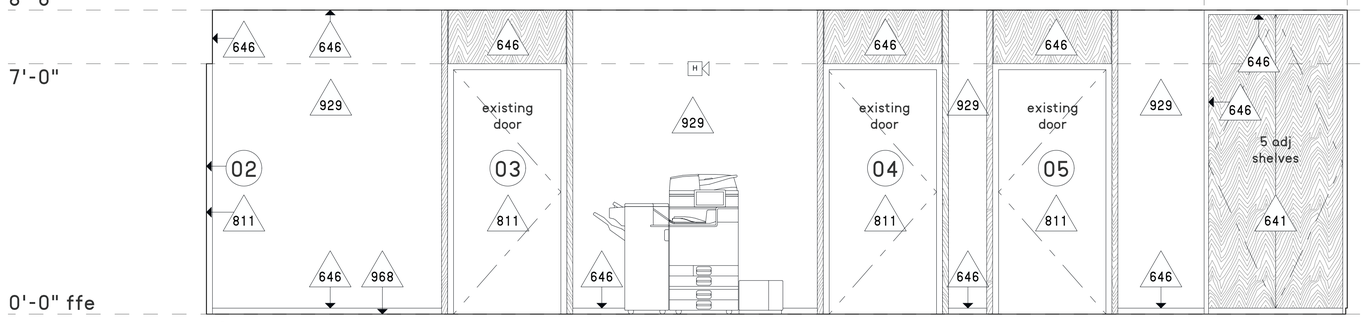


05 VC.A3.2 partial building section through office suite
SCALE: 1/2" = 1'-0"



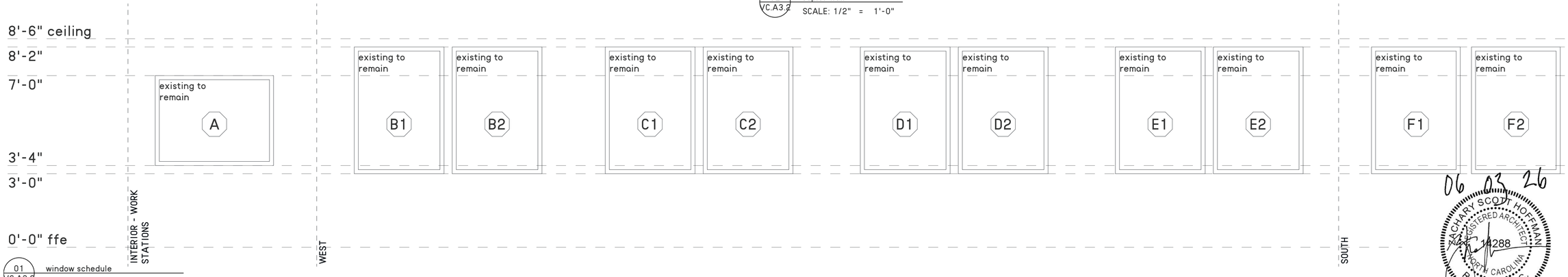
04 VC.A3.2 work stations
SCALE: 1/2" = 1'-0"

03 VC.A3.2 conference room display
SCALE: 1/2" = 1'-0"



02 VC.A3.2 copier wall
SCALE: 1/2" = 1'-0"

ALL DIMS TO ROUGH OPENING UNLESS OTHERWISE NOTED



01 VC.A3.2 window schedule
SCALE: 1/2" = 1'-0"

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proposed section
+ interior
+ elevations +
window schedule

VC.A3.2

GENERAL STRUCTURAL NOTES

GENERAL

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

CONTRACTOR SHALL TAKE SUCH ACTION AS NECESSARY TO PREVENT MOVEMENT OF OR DAMAGE TO THE ADJACENT STRUCTURE DURING CONSTRUCTION.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

WHENEVER EXISTING CONSTRUCTION IS RENOVATED, THERE IS LIKELY SOME COSMETIC DEFECTS DUE TO THE AGE OF THE BUILDING THAT WILL NOT BE CORRECTED DURING THE RENOVATION. THESE DEFECTS INCLUDE SAGGING FLOORS, MINOR CRACKS IN MASONRY WALLS, CRACKS IN SHEETROCK OR PLASTER THAT IS LEFT IN PLACE, ETC. THIS IS TO BE EXPECTED BY THE OWNER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE NOT A PART OF OUR CONTRACT BUT MAY BE ADDED AS AN ADDITIONAL SERVICE UPON REQUEST.

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER. THE SCOPE OF THIS PROJECT INVOLVES THE RENOVATION OF EXISTING OFFICES IN THE VISITOR CENTER AS SHOWN ON THE DRAWINGS. NO OTHER WORK IS INCLUDED IN OUR SCOPE.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ABBREVIATIONS

AB	ANCHOR BOLT
O.C.	ON CENTER
P.A.F.	POWDER-ACTUATED FASTENER
P.T.	PRESSURE-TREATED
C/C	CENTER TO CENTER
S.P.F.	SPRUCE-PINE-FIR
S.Y.P.	SOUTHERN YELLOW PINE
U.N.O.	UNLESS NOTED OTHERWISE
NTS	NOT TO SCALE

CODE

NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (IBC 2015)
STRUCTURAL LOADING PER ASCE 7-2010

BLDG RISK CATEGORY (NCSBC TABLE 1604.5) II

DESIGN LOADS

FLOOR LIVE LOAD (Uniform)	100	PSF
FLOOR LIVE LOAD (Concentrated)	2000	LBS

BUILDING CODE REQUIREMENTS FOR EXISTING BUILDINGS

THE 2018 NORTH CAROLINA EXISTING BUILDING CODE CLARIFIES ALL REQUIREMENTS FOR "EXISTING BUILDINGS AND STRUCTURES." THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, ADDITIONS, ALTERATIONS, AND REPAIRS OF EXISTING STRUCTURES.

THESE CODE PROVISIONS HAVE BEEN INTERPRETED AS FOLLOWS:

1. THE EXISTING BUILDING IS EXEMPT FROM A WIND OR SEISMIC ANALYSIS BECAUSE THE MAIN WIND (AND SEISMIC) FORCE RESISTING SYSTEM WILL NOT BE ALTERED DURING THIS RENOVATION.

2. ALL EXISTING GRAVITY ELEMENTS THAT ARE AFFECTED BY THE RENOVATION MUST BE CHECKED FOR DESIGN LOADS SHOWN ABOVE, AND REINFORCED AS NECESSARY.

3. ALL DEFECTIVE STRUCTURAL ELEMENTS MUST BE REPAIRED OR REPLACED.

THE SCOPE OF STRUCTURAL DESIGN IS ONLY AS NOTED IN THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE S.E.R. IF ANY DEFECTIVE, DETERIORATED, OR DAMAGED MEMBERS ARE FOUND, THAT ARE NOT SPECIFICALLY NOTED ON THE DRAWINGS.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #1 (NLGA grading rules) UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (UNO). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL".

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

BUILT-UP STUD COLUMNS MUST BE SECURELY BOLTED AND NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. MAXIMUM BOLT SPACING IS 3'-0" WITH BOLTS AT BOTH ENDS.

WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 1/2" DIAMETER BOLTS SPACED NOT MORE THAN 6' APART AND WHICH ARE EMBEDDED AT LEAST 6" IN CONCRETE OR 15" IN MASONRY UNITS. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESSURE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

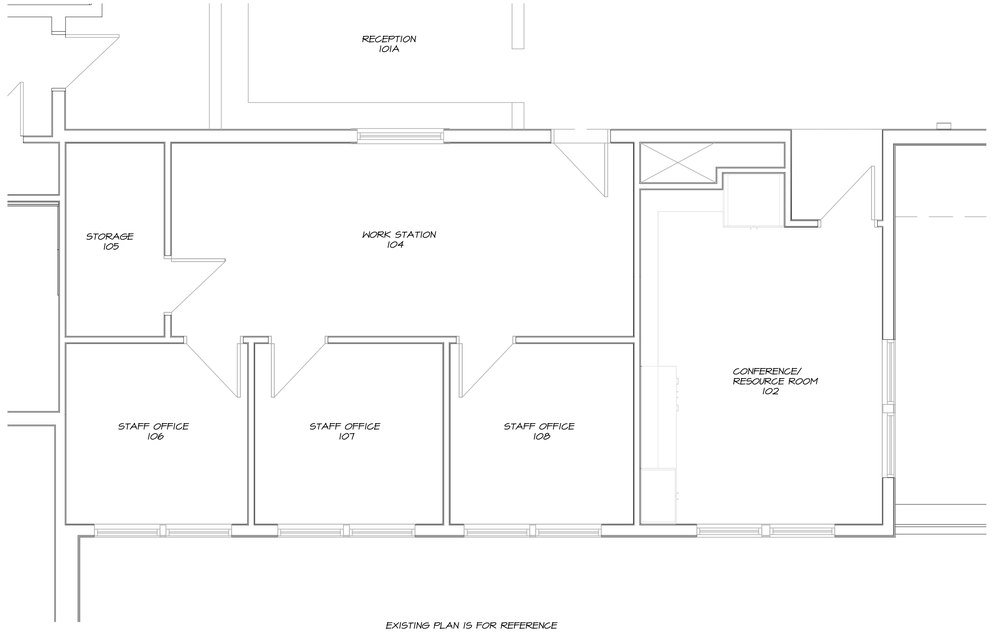
ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE BUILDING CODE.

HEADER SCHEDULE AT NON LOAD BEARING WALLS

MK#	MAX. OPENING	SIZE	NOTES
H1	4'-0"	(2) 2 X 6	1, 2

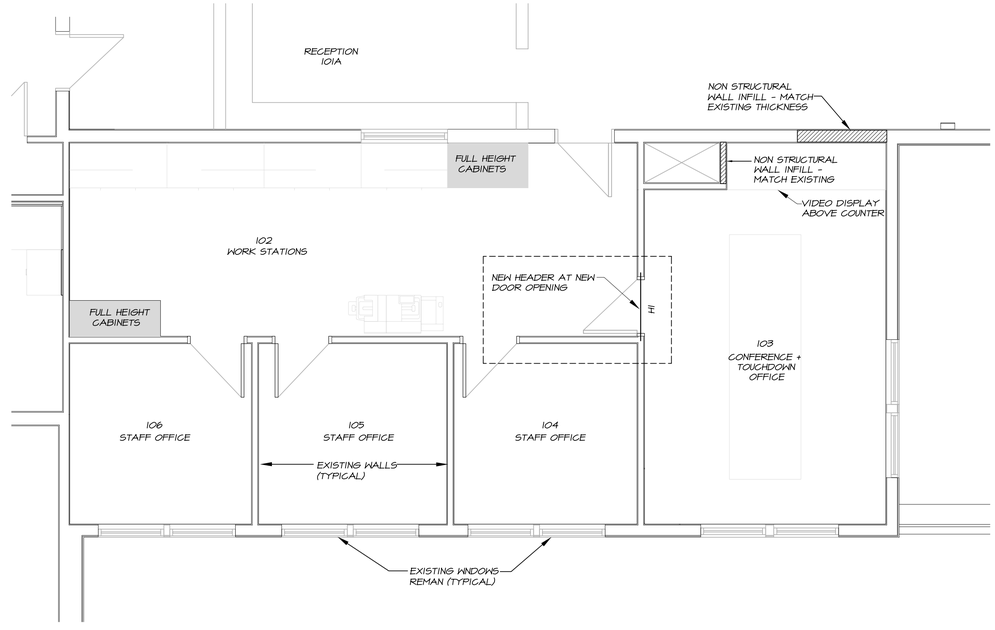
NOTES

1. THIS SCHEDULE IS FOR 2X4 WALLS. USE (3) 2X'S PER SCHEDULE IN 2X6 WALLS
2. USE (1) STUD UNDER AND (2) STUDS BEYOND EACH END.



EXISTING PLAN IS FOR REFERENCE ONLY. COORDINATE WITH DEMOLITION & ARCHITECTURAL PLANS.

01 EXISTING FLOOR PLAN
1/4" SCALE



NOTE: THE STRUCTURAL WORK ON THIS DRAWING IS LIMITED TO THE NEW HEADER.
NOTE: SEE ARCHITECTURAL PLANS FOR WALL LAYOUT AND ALL NON STRUCTURAL INFORMATION.

02 PROPOSED FLOOR PLAN
1/4" SCALE

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
10/01/26

in situ studio
704 N. Person Street
Raleigh, NC 27604
www.insitustudio.us

120 St.Mary's Street
Raleigh, NC 27605
919.833.1990
lysaght@lysaghtassociates.com
Firm No. C-0621
LYSAGHT & ASSOCIATES
structural engineers

REV. # DATE
BID PLANS 10/01/26

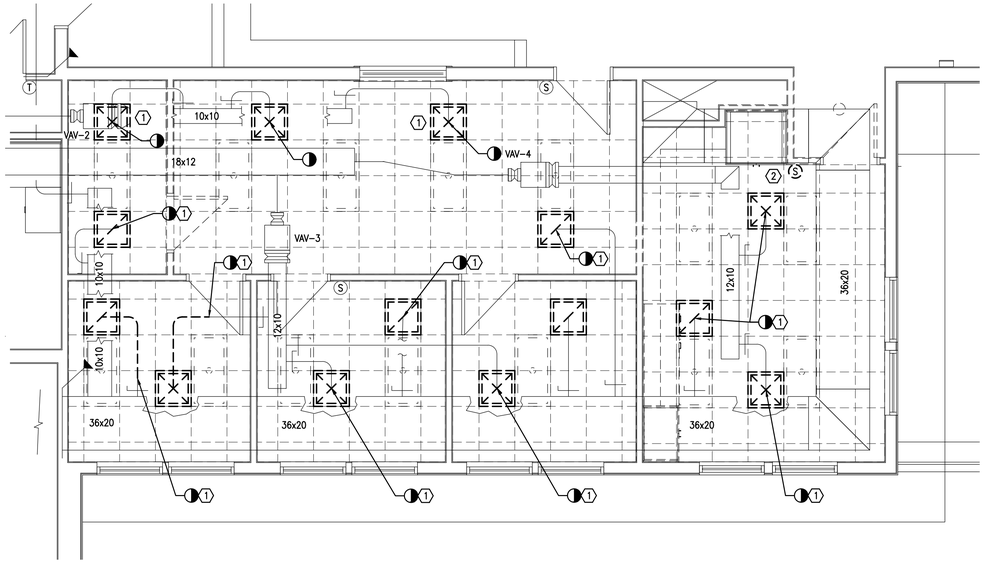
BID

10/01/26
MRB
scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

GENERAL STRUCT. NOTES
FLOOR PLAN & NOTES

VC.S1.0

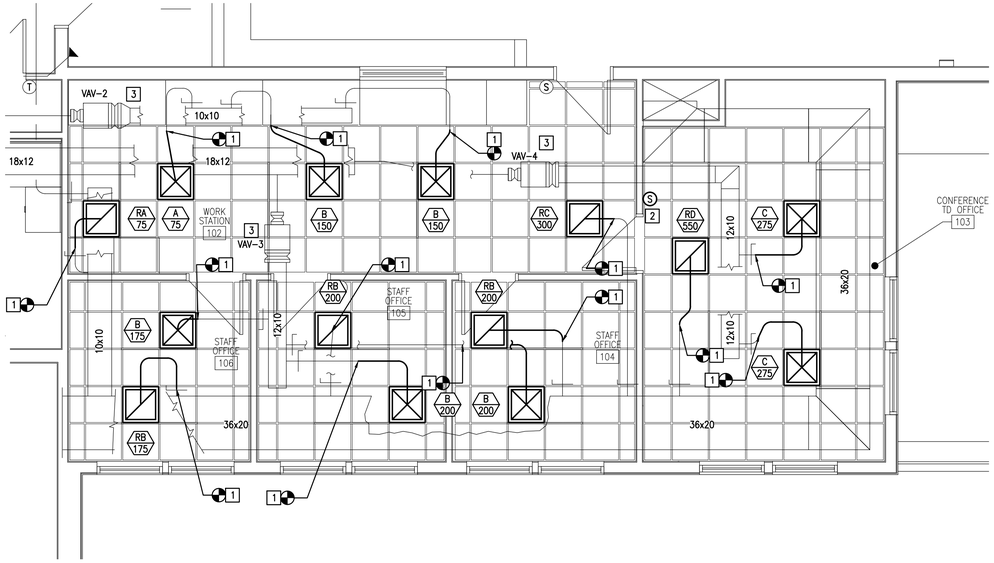


MECHANICAL FLOOR PLAN – VISITOR'S CENTER – DEMOLITION

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

DEMOLITION NOTES

1. REMOVE DIFFUSER/GRILLE AS REQUIRED INDICATED. MAINTAIN EXISTING RUN-OUT DUCT FOR REUSE IN NEW WORK. SEE NEW WORK PLAN FOR NEW LOCATION.
2. REMOVE TEMPERATURE SENSOR WITH ASSOCIATED WIRING TO VAV BOX. SAVE TEMPERATURE SENSOR FOR REUSE IN NEW WORK. SEE NEW WORK FOR NEW LOCATION. PATCH WALL TO MATCH ADJACENT SURFACE AND FINISH.

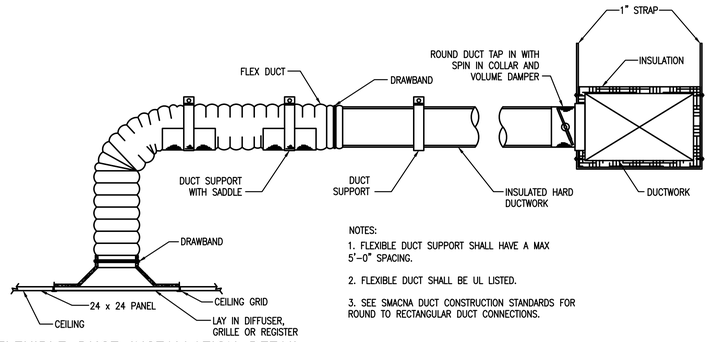


MECHANICAL FLOOR PLAN – VISITOR'S CENTER – NEW WORK

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

NEW WORK NOTES

1. PROVIDE SUPPLY/RETURN AIR DIFFUSER/GRILLE AS SCHEDULED. ADD/MODIFY SUPPORTS AND RUN-OUTS AS REQUIRED TO INSTALL IN NEW LOCATION. BALANCE AIR QUANTITIES AS INDICATED.
2. NEW LOCATION OF SAVED TEMPERATURE SENSOR. PROVIDE WIRING AND CONNECT TO VAV BOX. LOCATE THERMOSTAT NEAR DOOR NEXT TO LIGHT SWITCH(S). COORDINATE EXACT LOCATION WITH ENGINEER PRIOR TO BEGINNING WORK.
3. BALANCE VAV BOX AIR QUANTITY AS FOLLOW: VAV-2 375 CFM, VAV-3 575 CFM AND VAV-4 550 CFM.



NOTES:

1. FLEXIBLE DUCT SUPPORT SHALL HAVE A MAX 5'-0" SPACING.
2. FLEXIBLE DUCT SHALL BE UL LISTED.
3. SEE SMACNA DUCT CONSTRUCTION STANDARDS FOR ROUND TO RECTANGULAR DUCT CONNECTIONS.

FLEXIBLE DUCT INSTALLATION DETAIL

NO SCALE

M-999

AIR DISTRIBUTION SCHEDULE

MARK	SERVICE	MAX AIR FLOW (CFM)	GRILLE SIZE (IN)	RUN OUT (IN)	REMARKS/NOTES
A	SUPPLY AIR	100	6 x 6	6 ø	CEILING DIFFUSER
B	SUPPLY AIR	200	9 x 9	8 ø	CEILING DIFFUSER
C	SUPPLY AIR	300	12 x 12	10 ø	CEILING DIFFUSER
RA	RETURN AIR	100	22 x 22	6 ø	CEILING RETURN
RB	RETURN AIR	200	22 x 22	8 ø	CEILING RETURN
RC	RETURN AIR	400	22 x 22	10 ø	CEILING RETURN
RD	RETURN AIR	600	22 x 22	12 ø	CEILING RETURN

NOTE: ENERGY COMPLIANCE STATEMENT NOT PROVIDED BECAUSE NO NEW EQUIPMENT WAS ADDED

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK.
3. COORDINATE EXACT LOCATION AND LIMITS OF DEMOLITION PRIOR TO BEGINNING ANY WORK.

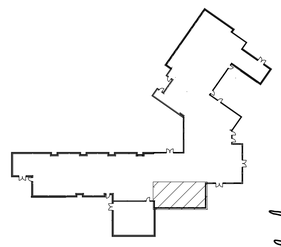
LEGEND

LEGEND NOTES:

2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.
3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.

12x12	RECTANGULAR DUCT, INSIDE CLEAR DIMENSIONS (HORIZONTAL X VERTICAL) INDICATED
6ø	ROUND DUCT, INSIDE CLEAR DIAMETER INDICATED
12x12	RECTANGULAR SINGLE LINE DUCT (HORIZONTAL X VERTICAL) INDICATED
6ø	ROUND SINGLE LINE DUCT, DIAMETER INDICATED (SEE AIR DISTRIBUTION SCHEDULE FOR DUCT SIZE).
	CEILING MOUNTED SUPPLY AIR DIFFUSER (CFM AS INDICATED)
	CEILING MOUNTED RETURN AIR GRILLE
	CEILING MOUNTED LINEAR DIFFUSER
A / 100	CFM, GRILLE, REGISTER OR DIFFUSER MARK
	BALANCING DAMPER
	POINT OF CONNECTION
#	REVISION DESIGNATION
#	NEW WORK NOTE DESIGNATION
#	GENERAL NOTE DESIGNATION
T	THERMOSTAT W/ UNIT DESIGNATION
S	SENSOR (METAL PLATE TYPE) W/ UNIT DESIGNATION
	CEILING EXHAUST FAN
	DUCT TURNING UP
	DUCT TURNING DOWN
	MITERED ELBOW WITH TURNING VANES
	2 HOUR FIRE RATED BARRIER

AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DIA	DIAMETER
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FOOT OR FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HZ	FREQUENCY
IN	INCH(-ES)
LAT	LEAVING AIR TEMPERATURE
LB(S)	POUND(S)
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
OA	OUTDOOR AIR
PD	PRESSURE DROP
PSI	POUND PER INCH
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SQ	SQUARE
SP	STATIC PRESSURE
TC	TOTAL CAPACITY
VOL	VOLUME
WB	WET BULB



KEY PLAN

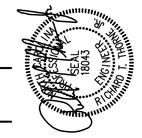
NO SCALE

GRAPHIC SCALE

1/4" = 1'-0"

2' 0 2' 4' 8'

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tattnall Court
Elizabeth City, NC
Phone: 252-888-3003
Email: hdma@hmdapping.com
NC LICENSE NO. C-1836
VA LICENSE NO. 0407003711



09/24/26

HDM#25008

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704 N PERSON STREET
RALEIGH NC 27604
www.insitustudio.us

KIMLEY-HORN & ASSOCIATES, INC.
LYSAGHT & ASSOCIATES
HDM ASSOCIATES, INC.
LYSAGHT & ASSOCIATES

Consultants
Landscape/Civil
Structural
PME/FIRE
Cost Estimation

IFB

10 01 26
scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

VC.M1.0

MECHANICAL FLOOR PLAN – VISITOR'S CENTER

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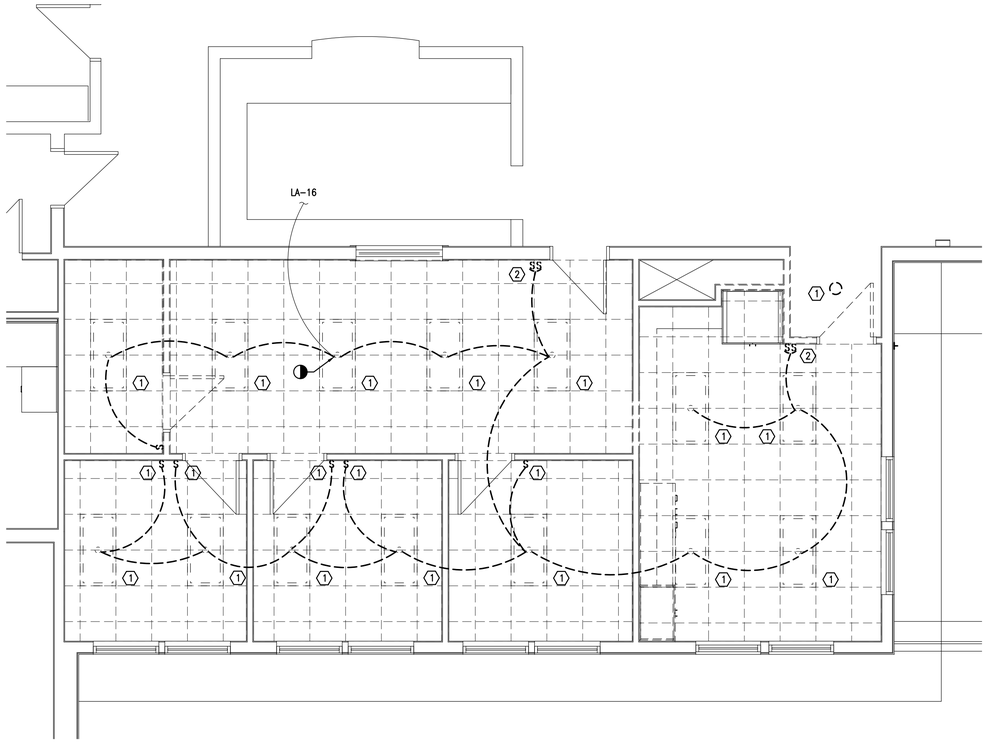
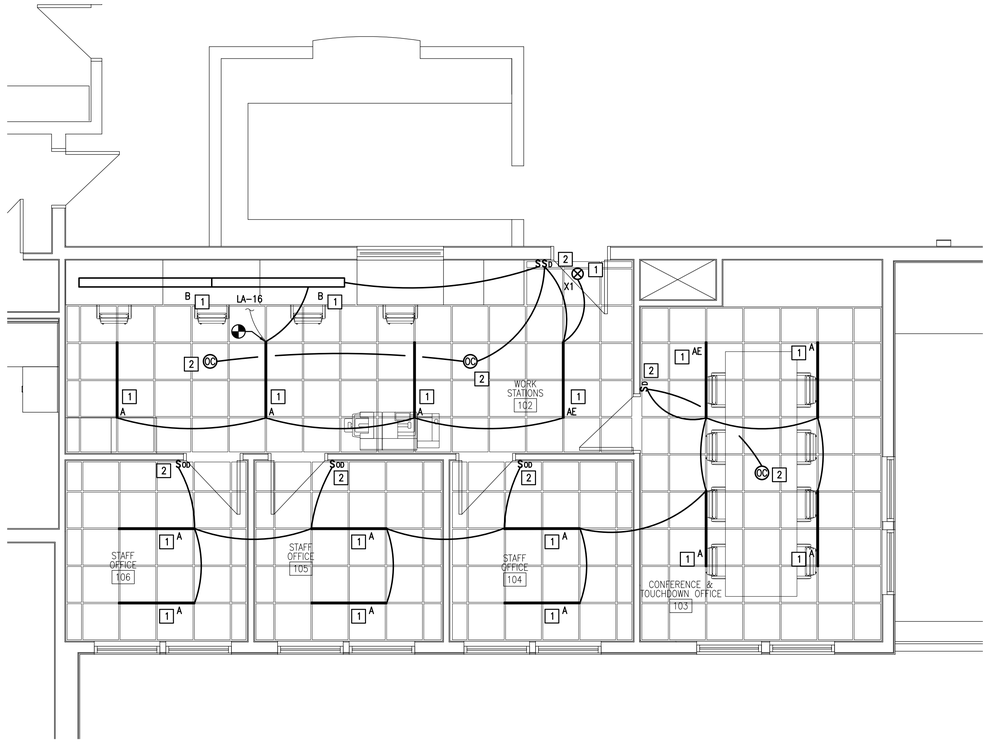


ELECTRICAL FLOOR PLAN – VISITOR'S CENTER – LIGHTING – DEMOLITION

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



ELECTRICAL FLOOR PLAN – VISITOR'S CENTER – LIGHTING – NEW WORK

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

DEMOLITION NOTES

1. REMOVE LIGHT FIXTURE WITH ASSOCIATED CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX. MAINTAIN EXISTING CIRCUIT FOR ADJACENT FIXTURES TO REMAIN.
2. REMOVE SWITCH WITH ASSOCIATED DEVICE BOX, CONDUIT AND WIRING BACK TO SOURCE.

NEW WORK NOTES

1. PROVIDE LIGHT FIXTURE WITH CONDUIT AND WIRING AS SHOWN. CONNECT TO CIRCUIT INDICATED.
2. PROVIDE SWITCH WITH DEVICE BOX, CONDUIT AND WIRING AS SHOWN. CONNECT TO FIXTURES INDICATED.

LIGHT FIXTURE SCHEDULE ②③

TYPE	MANUFACTURER	CATALOG NO.	LAMPS NO.	LAMPS TYPE	VOLTAGE	WATTS FIXTURE	BALLAST NO.	BALLAST TYPE	MOUNTING	DESCRIPTION	NOTES
A	INTER LUX	WG-20LRR-RGT9-S-48-M-935-D010-OD-W	–	LED	277	24	–	–	RECESSED	4" LINEAR RECESSED	
AE											①
B	LLI	LLI-ANG-W-W-1.5W--35K-94IN	–	LED	277	11	–	–	SURFACE	94" UNDERCOUNTER STRIP TAPE LIGHT	
X1	CHLORIDE	ER46LIWR	–	LED	277	3	–	–	UNIVERSAL	EXIT LIGHT	

NOTES:

① PROVIDE EMERGENCY BATTERY PACK WHERE INDICATED ON PLANS.

② LIGHT FIXTURE SUBSTITUTIONS WILL BE CONSIDERED DURING THE BIDDING PHASE UNTIL SEVEN (7) DAYS PRIOR TO THE RECEIPT OF BIDS. NO SUBSTITUTIONS WILL BE CONSIDERED AFTER SEVEN (7) DAYS PRIOR TO THE RECEIPT OF BIDS. SEE INSTRUCTION TO BIDDERS, PARAGRAPH 4, SUBSTITUTIONS.

③ PROVIDE ALL REQUIRED MOUNTING MATERIALS AND ACCESSORIES TO MOUNT FIXTURE AS INDICATED. COORDINATE LOCATIONS WITH ARCHITECT AND ENGINEER.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type) See Drawing
lamp type required in fixture See Drawing
number of lamps in fixture See Drawing
ballast type used in the fixture See Drawing
number of ballasts in fixture See Drawing
total wattage per fixture See Drawing
total interior wattage specified vs. allowed (whole building or space by space)
specified: 312 watts, allowed: 841 watts
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)

☐C406.2 More Efficient HVAC Equipment Performance
■C406.3 Reduced Lighting Power Density
☐C406.4 Enhanced Digital Lighting Controls
☐C406.5 On-Site Renewable Energy
☐C406.6 Dedicated Outdoor Air System
☐C406.7 Reduced Energy Use in Service Water Heating

LEGEND

LEGEND NOTES:

1. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED OR LOCATED UNDERGROUND AS NOTED.
2. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
3. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.
4. CAPITAL LETTER BESIDE FIXTURE SYMBOL DENOTES FIXTURE TYPE WITH REFERENCE TO FIXTURE SCHEDULE.
5. MOUNTING HEIGHTS GIVEN BELOW SHALL BE FOLLOWED UNLESS NOTED ON THE FLOOR PLANS, SCHEDULES OR SHOWN DIFFERENT IN THE ARCHITECTURAL ELEVATIONS. ALL HEIGHTS ARE TO CENTER OF THE DEVICE.

CEILING MOUNTED LIGHTING FIXTURE. SEE LIGHT FIXTURE SCHEDULE.

EXIT LIGHT, ARROW INDICATES DIRECTION, TWO ARROWS INDICATE DOUBLE FACE. CONNECT AHEAD OF SWITCH.

LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. THE EMERGENCY BATTERY PACK SHALL BE CONNECTED AHEAD OF SWITCH. SEE LIGHT FIXTURE SCHEDULE.

S — SINGLE POLE SWITCH, 20A, 48" AFF.

S_O — SINGLE POLE OCCUPANCY SENSING SWITCH, 20A, 48" AFF.

S_D — DIMMER SWITCH, 20A, 0-10V, DUAL VOLTAGE, 48" AFF.

S_{OD} — DIMMER/OCCUPANCY SWITCH, 20A, 0-10V, DUAL VOLTAGE, 48" AFF.

CEILING MOUNTED OCCUPANCY SENSOR

DUPLEX RECEPTACLE, 20A, 125 VOLTS, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED.

TWO DUPLEX RECEPTACLES, 20A, 125 VOLTS, 3 WIRE GROUNDING TYPE, 4" SQUARE BOX WITH DOUBLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED.

FLUSH FLOOR BOX WITH HINGED COVER PLATE, DIVIDED COMPARTMENTS FOR SHARED ACCESS WITH DUPLEX RECEPTACLE, 20A, 125 VOLTS, 3 WIRE, GROUNDING TYPE AND VOICE/DATA OUTLET. PROVIDE (2) TWO 1-1/4" CONDUIT WITH PULLWIRE TO ABOVE CEILING.

WALL VOICE/DATA OUTLET, 4" SQUARE BOX WITH SINGLE GANG RING AND COVER PLATE. MOUNT 18" AFF EXCEPT AS NOTED. PROVIDE 1" CONDUIT WITH PULLWIRE TO ABOVE CEILING.

POINT OF DEMOLITION LIMIT

POINT OF CONNECTION

REVISION DESIGNATION

DEMOLITION NOTE DESIGNATION

NEW WORK NOTE DESIGNATION

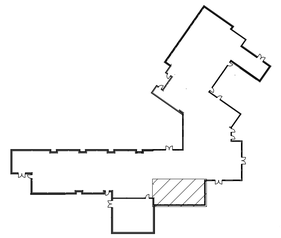
GENERAL NOTE

BRANCH CIRCUIT (CONDUIT AND WIRE) RUN CONCEALED IN WALL OR ABOVE CEILING UNLESS NOTED OTHERWISE. WIRE SIZE #12 UNLESS NOTED OTHERWISE.

L-1 — INDICATES CIRCUIT HOMERUN TO PANEL. LETTER & NUMBERS INDICATE PANEL DESIGNATION & CIRCUIT BREAKER NUMBER.

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.
4. COORDINATE DEVICE LOCATION WITH MILLWORK PRIOR TO ROUGH-IN.
5. COORDINATE EXACT LOCATION AND LIMITS OF DEMOLITION PRIOR TO BEGINNING ANY WORK.



KEY PLAN

NO SCALE

GRAPHIC SCALE

1/4" = 1'-0" (2' 0 2' 4' 8')

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106 Tarheel Court
Elizabeth City, NC
Phone: 252-668-3003
Email: hdma@mindspring.com
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VA LICENSE NO. 0407100711

09/24/26

HDMA#25008

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KIMLEY-HORN & ASSOCIATES, INC. — Landscape/Civil
LYSAGHT & ASSOCIATES — Structural
HDM ASSOCIATES, INC. — PME/FIRE
LYSAGHT & ASSOCIATES — Cost Estimation

Consultants

IFB

10 01 26
scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

ELECTRICAL FLOOR PLAN – VISITOR'S CENTER

VCE1.0

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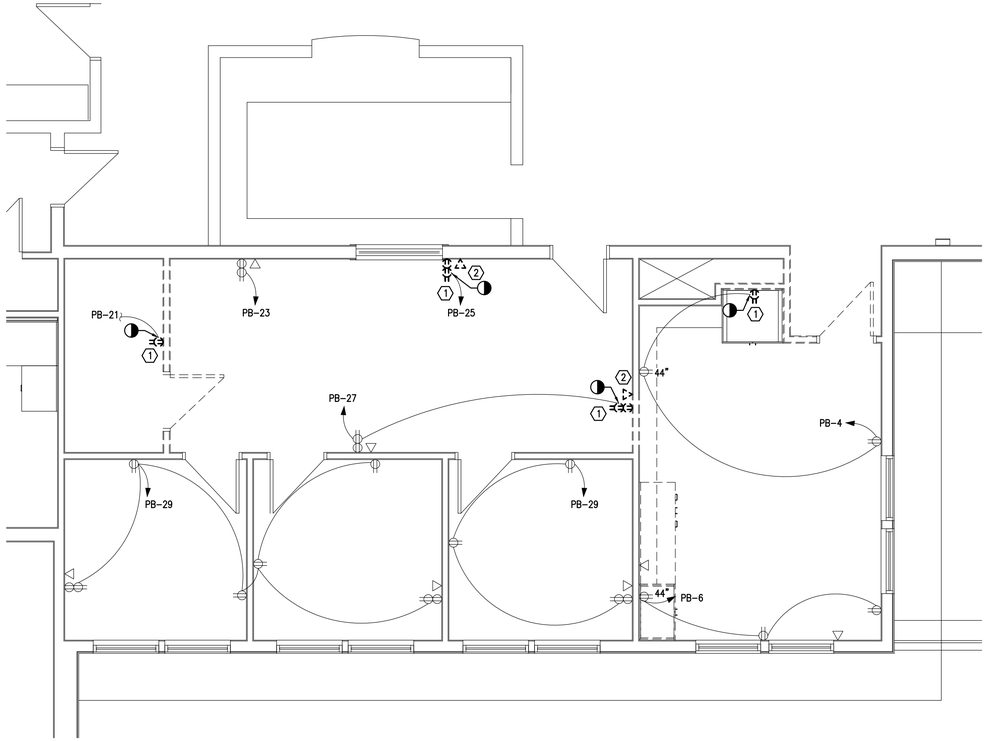
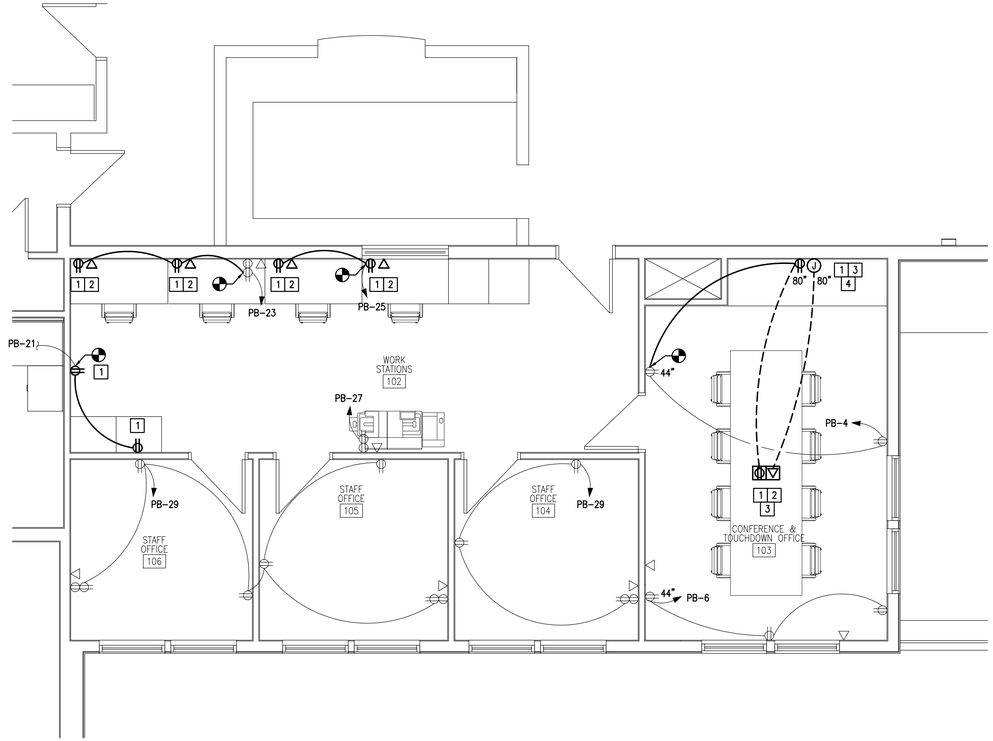


ELECTRICAL FLOOR PLAN – VISITOR'S CENTER – POWER – DEMOLITION

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

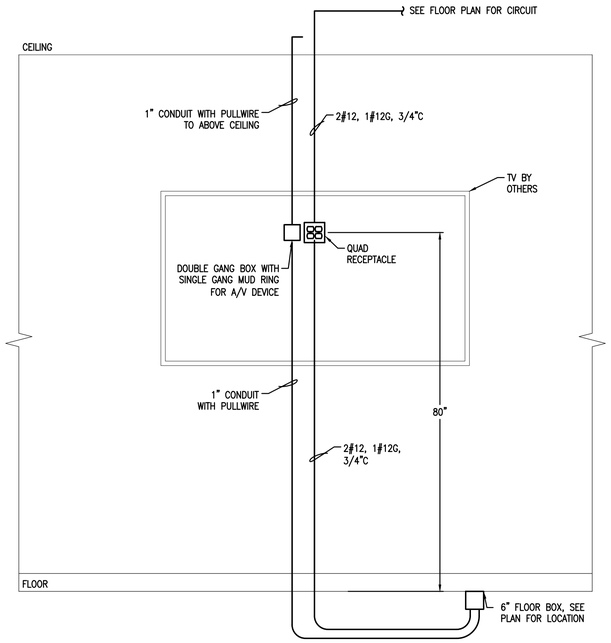


ELECTRICAL FLOOR PLAN – VISITOR'S CENTER – POWER – NEW WORK

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

DEMOLITION NOTES

1. REMOVE RECEPTACLE WITH ASSOCIATED DEVICE BOX, CONDUIT AND WIRING TO NEAREST JUNCTION BOX. MAINTAIN EXISTING CIRCUIT FOR ADJACENT DEVICES TO REMAIN.
2. REMOVE TELE/DATA OUTLET WITH ASSOCIATED CONDUIT AND WIRING TO SOURCE.

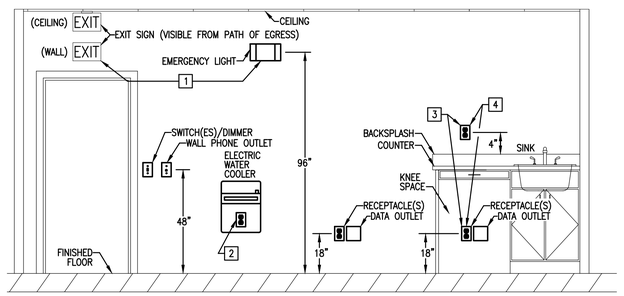


TYPICAL A/V DEVICE (FLOOR MOUNT) DETAIL

NO SCALE

NEW WORK NOTES

1. PROVIDE RECEPTACLE WITH DEVICE BOX, CONDUIT AND WIRING AS SHOWN. CONNECT TO CIRCUIT INDICATED.
2. PROVIDE TELE/DATA OUTLET WITH DEVICE BOX, CONDUIT AND PULL WIRE TO ABOVE ACCESSIBLE CEILING.
3. SEE A/V DETAIL FOR ADDITIONAL INFORMATION.
4. PROVIDE JUNCTION BOX WITH CONDUIT AND PULL WIRE TO ABOVE ACCESSIBLE CEILING. SEE A/V DETAIL.



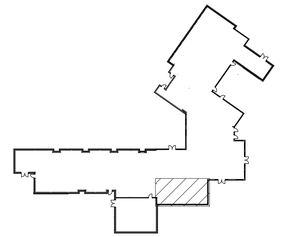
ELECTRICAL DEVICE INSTALLATION DETAIL 5 6

ED-012

NO SCALE

ELECTRICAL DEVICE INSTALLATION DETAIL NOTES

1. ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
2. RECEPTACLE SHALL BE GFCI TYPE. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
3. COORDINATE ALL RECEPTACLE LOCATIONS NEAR MILLWORK WITH MILLWORK BEFORE ROUGH IN.
4. ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE.
5. RECEPTACLE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
6. ALL MOUNTING HEIGHTS GIVEN ARE TO CENTER OF DEVICE. UNLESS NOTED OTHERWISE.



KEY PLAN

NO SCALE

GRAPHIC SCALE

1/4" = 1'-0"

2' 0 2' 4' 8'

HDM ASSOCIATES, INC.
Professional Engineering Services
106 Tarheel Court
Elizabeth City, NC
Phone: 252-668-3003
Email: hdma@mindspring.com
NC LICENSE NO. C-1836
VA LICENSE NO. 0407100711

HDM#25008

09/24/26

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ELECTRICAL FLOOR PLAN – VISITOR'S CENTER

IFB

10 01 26
scale as noted

HISTORIC YATES MILL COUNTY PARK
4620 LAKE WHEELER RD
RALEIGH, NC 27603

Consultants
Landscape/Civil KIMLEY-HORN & ASSOCIATES, INC.
Structural LYSAGHT & ASSOCIATES
PME/FIRE HDM ASSOCIATES, INC.
Cost Estimation LYSAGHT & ASSOCIATES

in situ studio
704 N PERSON STREET
RALEIGH NC 27604
www.insitustudio.us

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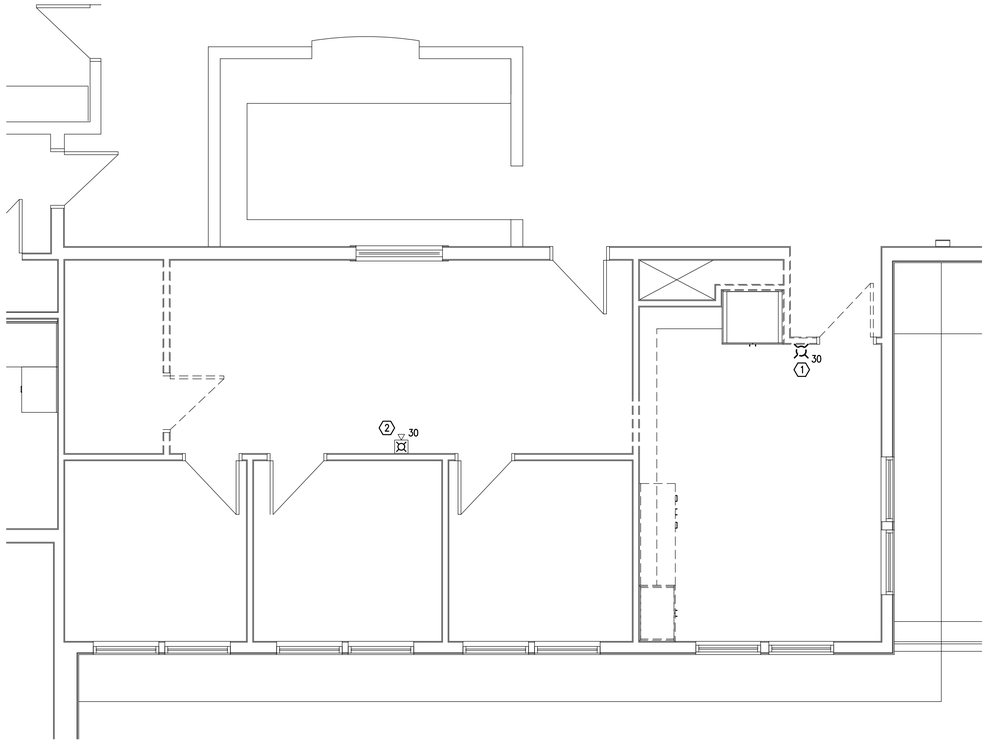
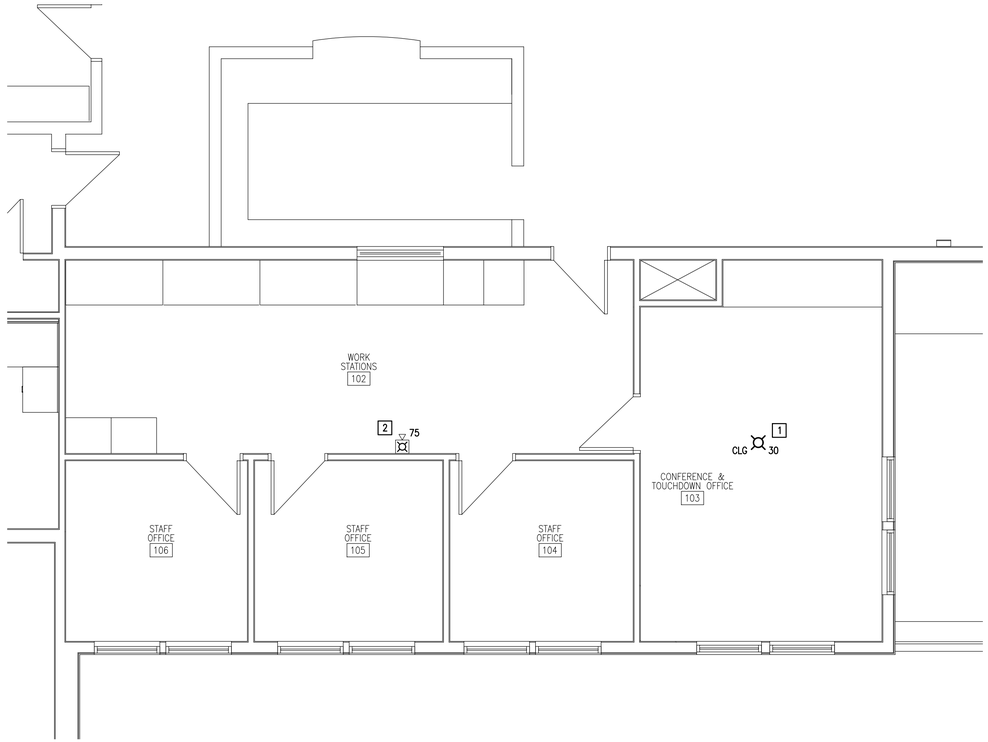


FIRE ALARM FLOOR PLAN – VISITOR'S CENTER – DEMOLITION

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

DEMOLITION NOTES

1. REMOVE FIRE ALARM DEVICE AND SAVE FOR REUSE IN NEW WORK. REMOVE CONDUIT AND WIRING AS REQUIRED TO REMOVE WALL AND INSTALL NEW WALL. MAINTAIN FIRE ALARM CIRCUIT FOR RECONNECTION IN NEW WORK.
2. EXISTING FIRE ALARM DEVICE TO REMAIN. PROTECT DURING CONSTRUCTION.



FIRE ALARM FLOOR PLAN – VISITOR'S CENTER – NEW WORK

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

NEW WORK NOTES

1. NEW LOCATION OF STORED FIRE ALARM DEVICE. PROVIDE DEVICE BOX, CONDUIT AND WIRING. CONNECT TO EXISTING FIRE ALARM CIRCUIT. CONTRACTOR SHALL VERIFY EXISTING DEVICE IS RATED AS INDICATED. IF DEVICE CANDELA RATING IS LOWER AND CANNOT BE ADJUSTED TO REQUIRED LEVEL THE CONTRACTOR SHALL REPLACE DEVICE WITH NEW MATCHING DEVICE WITH INDICATED RATING.
2. CONTRACTOR SHALL VERIFY EXISTING DEVICE IS RATED AS INDICATED. IF DEVICE CANDELA RATING IS LOWER AND CANNOT BE ADJUSTED TO REQUIRED LEVEL THE CONTRACTOR SHALL REPLACE DEVICE WITH NEW MATCHING DEVICE WITH INDICATED RATING.

LEGEND

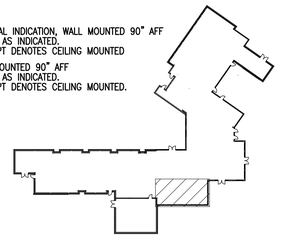
LEGEND NOTES:

1. MOUNTING HEIGHTS GIVEN BELOW SHALL BE FOLLOWED UNLESS NOTED ON THE FLOOR PLANS, SCHEDULES OR SHOWN DIFFERENT IN THE ARCHITECTURAL ELEVATIONS. ALL HEIGHTS ARE TO CENTER OF THE DEVICE.
2. ALL DARK AND DASHED SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES TO BE REMOVED.
3. ALL DARK AND SOLID SYMBOLS INDICATE NEW EQUIPMENT AND/OR DEVICES TO BE PROVIDED BY FIRE ALARM CONTRACTOR UNLESS NOTED OTHERWISE.
4. ALL LIGHT AND SOLID SYMBOLS INDICATE EQUIPMENT AND/OR DEVICES THAT ARE EXISTING TO REMAIN.

- POINT OF DEMOLITION LIMIT
- POINT OF CONNECTION
- REVISION DESIGNATION
- DEMOLITION NOTE DESIGNATION
- NEW WORK NOTE DESIGNATION
- GENERAL NOTE
- CLG — HORN WITH VISUAL INDICATION, WALL MOUNTED 90" AFF CANDELA RATING AS INDICATED. CLG – SUBSCRIPT DENOTES CEILING MOUNTED
- CLG — STROBE, WALL MOUNTED 90" AFF CANDELA RATING AS INDICATED. CLG – SUBSCRIPT DENOTES CEILING MOUNTED.

GENERAL COORDINATION NOTES

1. COORDINATE LOCATION AND REQUIREMENTS WITH OTHER TRADES PRIOR TO BEGINNING ANY WORK.
2. COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO BEGINNING ANY WORK. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
3. COORDINATE POWER CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIED.
4. COORDINATE EXACT LOCATION AND LIMITS OF DEMOLITION PRIOR TO BEGINNING ANY WORK.



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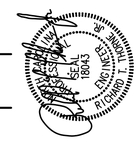

09/24/26

HDMA#25008

Consultants
Landscape/Civil — KIMLEY-HORN & ASSOCIATES, INC.
Structural — LYSAGHT & ASSOCIATES
PME/FIRE — HDM ASSOCIATES, INC.
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FIRE ALARM FLOOR PLAN – VISITOR'S CENTER

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