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f: 919-419-1669

April 25, 2025

Blue Jay Point County Park - Renovation Wake County

ADDENDUM #3

Bidders are hereby informed that the following additions, deletions, changes and/or clarifications supersede and supplement the Contract Documents for the above referenced project. It forms a part of the previously issued bid documents.

This addendum may include revised pages and drawings, which shall be inserted before the corresponding page or drawings in the previously issued documents.

DRAWINGS:

- 1. L134 Revised curb layout
- 2. L138 Revised curb ramp
- 3. L161 Revised mulch areas and planting legend.
- 4. L162 Revised planting legend.
- 5. L163 Revised planting legend.
- 6. L164 Revised planting legend.
- 7. L165 Revised planting legend.
- 8. L166 Revised planting legend.
- 9. L167 Revised planting legend.
- 10. L168 Revised planting legend.
- 11. L169 Revised planting legend.
- 12. L501 Revised detail B1 Slate Pavers on Concrete Base
- 13. L506 Revised detail A2 Fixed Bollard
- 14. C-104 Notes added to existing light fixtures
- 15. C-201 Adjusted drop inlet
- 16. C-203 Added electrical linework
- 17. C-204 Added electrical linework
- 18. C-302 Added electrical linework

SPECIFICATIONS:

- 1. 077100 Roof Specialties: Additional section
- 2. 087100 Door Hardware: Revised

QUESTIONS:

- I received a question regarding sod. Spec section 329200-2.2.B specified TifTuf
 Bermudagrass or Tiffway 417, however the landscape planting drawings sheets appear to
 specify Fescue sod in the planting legends. Seed is also specified as Fescue or Bermuda.
 Please confirm which grass type is desired.
 - a. Response: Wake County Parks prefer Bermuda grass, Specification 329200 Turf and Grasses. Planting legends revised on planting sheets.
- 2. Question regarding mulch. Take sheet L161 for instance, this sheet shows a large area being covered with mulch. Is that intended to be the triple shredded hardwood per the specs? A pine straw mulch? Or a seed/straw mulch (at areas greater than 4:1 slope)?
 - a. Response: Per specification 329300 Plants 2.6 Mulch, A. Mulch, 1. Type: Triple shredded hardwood. An area of engineered wood fiber has been added in the



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Nature Play, see sheet L161. Refer to spec 321816.13 Playground Protective Surfacing.

- 3. Are the DWG files for this project available?
 - a. Response: AutoCAD files are not provided during the bidding process. AutoCAD digital files will be provided during the construction administration phase.
- 4. Detail A1/L506 indicates permeable pavers. No permeable pavers have been found. Clarify location.
 - a. Response: There are no permeable pavers on this project, conditions vary at bollards such as asphalt, concrete, and truncated pavers. See revised detail A1/L506.
- 5. Detail B1/L501: detail indicates two different sizes for the slate pavers. Clarify the correct dimensions of slate pavers.
 - Response: The nominal size of slate pavers is 2'x2'x1.5" min. See revised detail B1/L506.
- 6. Will there be any capacity or tap fees for the new waterlines? If so, will Wake County waive/cover these fees?
 - a. Response: Wake County GSA department confirmed that there would only be required fees if we added a new meter. Since we are not adding a new meter there will not be any tap fees.
- 7. On the door schedule on Sheet A2.4.VC, the frame for openings 04 and 05 is listed as wood. Is this correct? Is there any information about the wall condition for those openings so we can indicate the proper jamb dimensions for pricing?
 - a. Response: Doors 04 and 05 are inset in a wall of cabinets and wood panels. The wood frames should match the cabinets and wood panels, which are rift sawn/cut white oak veneer. A plan detail is provided in drawing 06/A6.1.VC. A head detail provided in drawing 02/A5.1.VC. Casing and head trim exposure are drawn as 1 ½".
- 8. I can also include construction cores if necessary, but my assumption is that permanent cores would be by owner. Please confirm.
 - a. Response: Wake County will install the permanent cores.
- 9. On the demo Visitors Center plan there is a note to relocate existing utilities if required for new drainage install, would this be a change order?
 - a. Response: Utilities have been located with SUE. We do anticipate some form of conflict with the new drop inlet. Price should include minor shifting of cable/fiber lines. If relocation beyond shifting is required, then a field verification and decision on how to proceed will be determined.
- 10. On the demo parking lot, what does wood fence to replace mean, what type of fence are we to replace?
 - a. Response: Remove existing wood fence west of parking lot entrance as shown on sheet C102. See sheet L144 for 2-rail wood fence. See detail D1/L506 for 2-rail wood fence.
- 11. On the demo parking lot there is a note that the contractor is to reuse gravel if meets specs, what is the spec for this gravel to reuse.
 - a. Response: See detail gravel paving A2/L501. Aggregates are defined in Spec 321216 Asphalt Paving. Pavement section needs to meet the requirements of the specifications. Contractor to coordinate with on-site testing firm to determine if reuse will be acceptable.
- 12. Demo Playground: Can you confirm all playground materials not equipment shown in red get removed from the site?
 - a. Response: Per Addendum #1 Question 14. Nature Play Area: a) Park staff will remove and repurpose specific nature play pieces as indicated on the plans, see sheet C-103 Demolition Plan Playground.



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- 13. Demo: Just a note that your match lines overlap on a lot of the plan sheets, is it possible to make all the match lines actually match up to make our take off much easier to get the correct quantities. If you look at C103 to C104 there is quite a bit of overlap.
 - a. Response: This appears to be the only sheets where overlap is more evident. There is not much detail that is duplicated on both sheets 103 and 104. At this time, we prefer not to update the plans.
- 14. Demo: On page C104 who is responsible to relocate existing electric within the limits of work?
 - Contractor will be responsible for coordinating with Duke Energy on relocation of lines
- 15. Demo: On page C104 do we remove asphalt parking lot as shown in red outlined and hashed?
 - a. Response: Yes, per the legend, the cross hatch is shown as hardscape to be removed. The dual diagonal line hatch represents pavement that is to be milled. Notes are shown on this sheet for what is to be sawcut vs milled.
- 16. Demo: If there is ABC under asphalt removal do we remove the ABC if so can it be reused?
 - Response: Pavement section needs to meet the requirements of the specifications.
 Contractor to coordinate with on-site testing firm to determine if reuse will be acceptable.
- 17. Demo: Do we remove existing bumper blocks, they are not shown on the demo sheet?
 - a. Response: There is a note on C-101 that says to "remove and reset wheel stops".
- 18. Demo: Do we remove existing light poles?
 - a. Response: Notes have been added to indicate existing light poles are to be removed and replaced, see demolition plans.
- 19. On page C203 what size is the water line from hand pump to reservoir tank from rain harvest cistern?
 - Response: See sheet L132 for note 1" water line. See detail cistern A4/L504 for additional notes.
- 20. Is there any irrigation for the project landscaping?
 - a. Response: There is no irrigation within this project's scope of work.
- 21. Page L131 is the purple area medium duty paving?
 - a. Response: Sheet L131 has a light duty asphalt trail, see detail E3/L501. Beneath the pavilion is a light duty concrete paving / concrete slab, see detail E1/L501.
- 22. Page L132 where are we to relocate the sound board, bus shelter, existing equipment and the sandy hollow pit?
 - a. Response: Sheet C103 states "Wake County will remove playground equipment prior to construction". Sheet L132 shows the relocated locations.
- 23. Page L132 is there a specific type of boulder to be used for the rock wall?
 - a. Response: See detail Nature Playground Mound and Tunnel A1/L505.
- 24. Page L132 is there a specific type of corrugated metal pipe to be used for the tunnel?
 - a. Response: See detail Nature Playground Mound and Tunnel A1/L505.
- 25. Page L134 is the new 30" curb all the way around the outside of the new lot, as far as in the area where the existing lot is not removed and rebuilt.
 - a. Response: Curb and gutter shown on Sheet L134 typically on the downhill side of parking lot and used to direct stormwater to storm drains. Proposed curb and gutter shown within limits of disturbance.
- 26. Page L135 can you define on the plans better where the metal edge is located.
 - a. Response: Metal edge is labeled on sheets L131 and L135.
- 27. Page L138 in the area of the curb transition, the plans show a HP dome and a accessible ramp, is this area concrete? The plans show it as all light duty pave?



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- a. Response: The curb ramp is light duty concrete paving, see detail E3/L501. Additionally, see detail Accessible Curb Ramp Type 2 B5/L501.
- 28. Concerning the casework: Is there a finish schedule for the project (the is nothing on the plans for casework).
 - a. Response: A finish schedule is provided on drawing sheet A2.4.VC. The Owner still needs to confirm paint colors for walls and trim. This will be done via a walkthrough during construction.

Specifications sections 064113 and 064216 state that cabinets and wall panels will match each other and be wood veneer in rift cut/sawn white oak. The only exception is when matching existing cabinets in Goldfinch 100 as noted on A3.4.VC. Three acceptable local custom fabrications are listed.

- 29. Is there section details for the casework?
 - a. Response: We do not typically provide section details for casework. These are to be provided by the fabricator during the shop drawing process. Refer to drawing sheets A3.3.VC and A4.3.VC for cabinet and all panel elevations. Specification sections 064113 and 064216 describe the construction of cabinet boxes and hardware expectations, etc.

Door hardware is carried by Allowances as indicated in Specification 012100. Final door hardware selections are pending owner input and will be made after bidding.

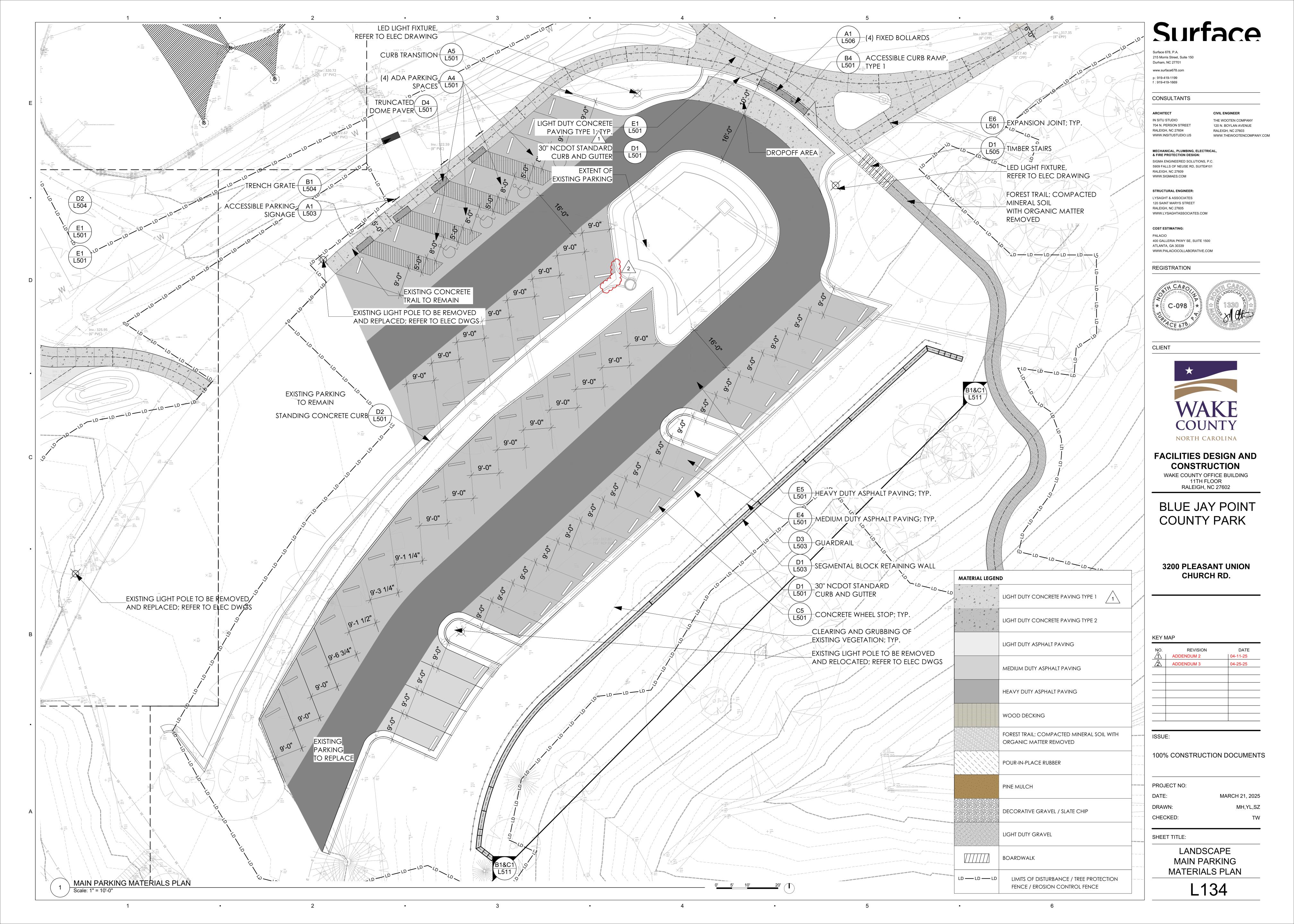
- 30. Can you confirm casework to be plastic laminate?
 - a. Response: Specification sections 064113 and 064216 state that cabinets and wall panels will match each other and be wood veneer in rift cut/sawn white oak. The only exception is when matching existing cabinets in Goldfinch 100 and noted on A3.4.VC. Three acceptable local custom fabricators are listed.
- 31. Can you confirm countertop materials in all areas?
 - a. Response: Specification section 123661.19 states that counters will be Quartz Agglomerate in all locations.
- 32. Goldfinch 100 how is this to be treated with existing products 03/3.4 & 04/3.4?
 - a. Response: In this one location, new cabinets will match existing plastic laminate cabinets. Per above, all other cabinets and wall panels will be wood veneer in rift cut/sawn white oak.
- 33. I see the park is to remain open, when working in certain areas are we able to close the area for a certain amount of time to complete the area. In the area of the parking lot removal and replace it will be hard to get people to the existing playground when working in that area.
 - Response: As noted in Addendum #1, schedule to be discussed in more detail during the pre-construction meeting. General schedule / timeframe on sheet C-500 Overall Erosion Control Key.
- 34. Specs section Clearing & Grubbing mentions a staging area with 6" ABC stone, where is the staging area to be located and the size of the area?
 - a. Response: See sheets C501-506 showing staging areas locations. If additional areas are needed, they must be located within the LOD. If additional area is necessary, Contractor must coordinate with Wake Co. Park Staff for all staging areas.
- 35. Who is responsible for QC/QA testing?
 - a. Response: Spec 312000 Earth Moving states: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- 36. Is there a geotechnical report for the project area?
 - a. Response: Geotechnical report is included within the Project Manual Appendix C: Report of Subsurface Exploration and Geotechnical Engineering Evaluation.
- 37. Is there a CAD file available so we can take off the grading?

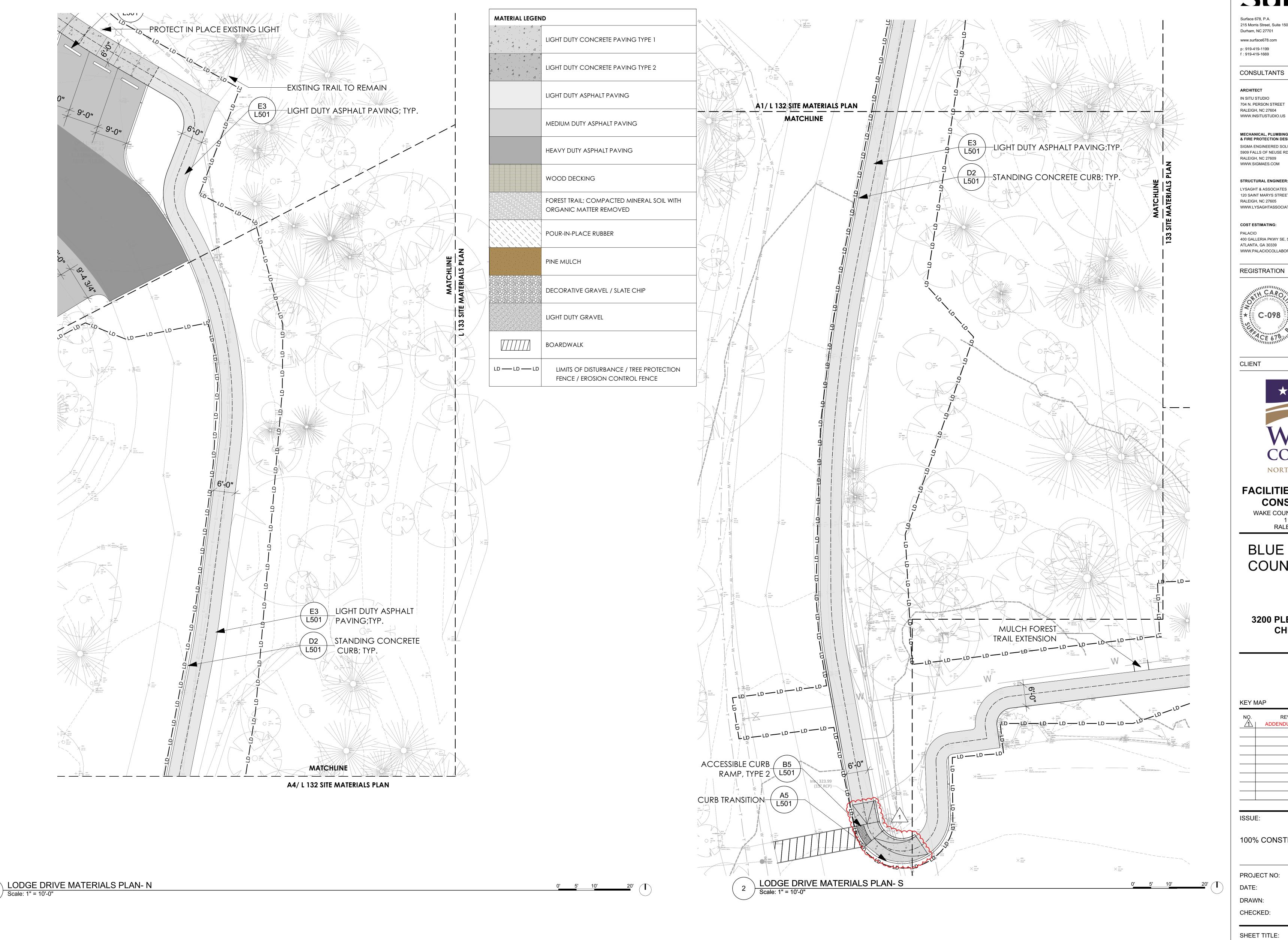


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a. Response: AutoCAD files are not provided during the bidding process. AutoCAD digital files will be provided during the construction administration phase.







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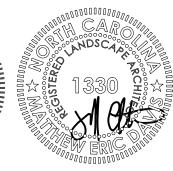
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FACILITIES DESIGN AND CONSTRUCTION

WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

BLUE JAY POINT COUNTY PARK

3200 PLEASANT UNION CHURCH RD.

NO 	⊋. 1_	REVISION ADDENDUM 3	DATE 04-25-25
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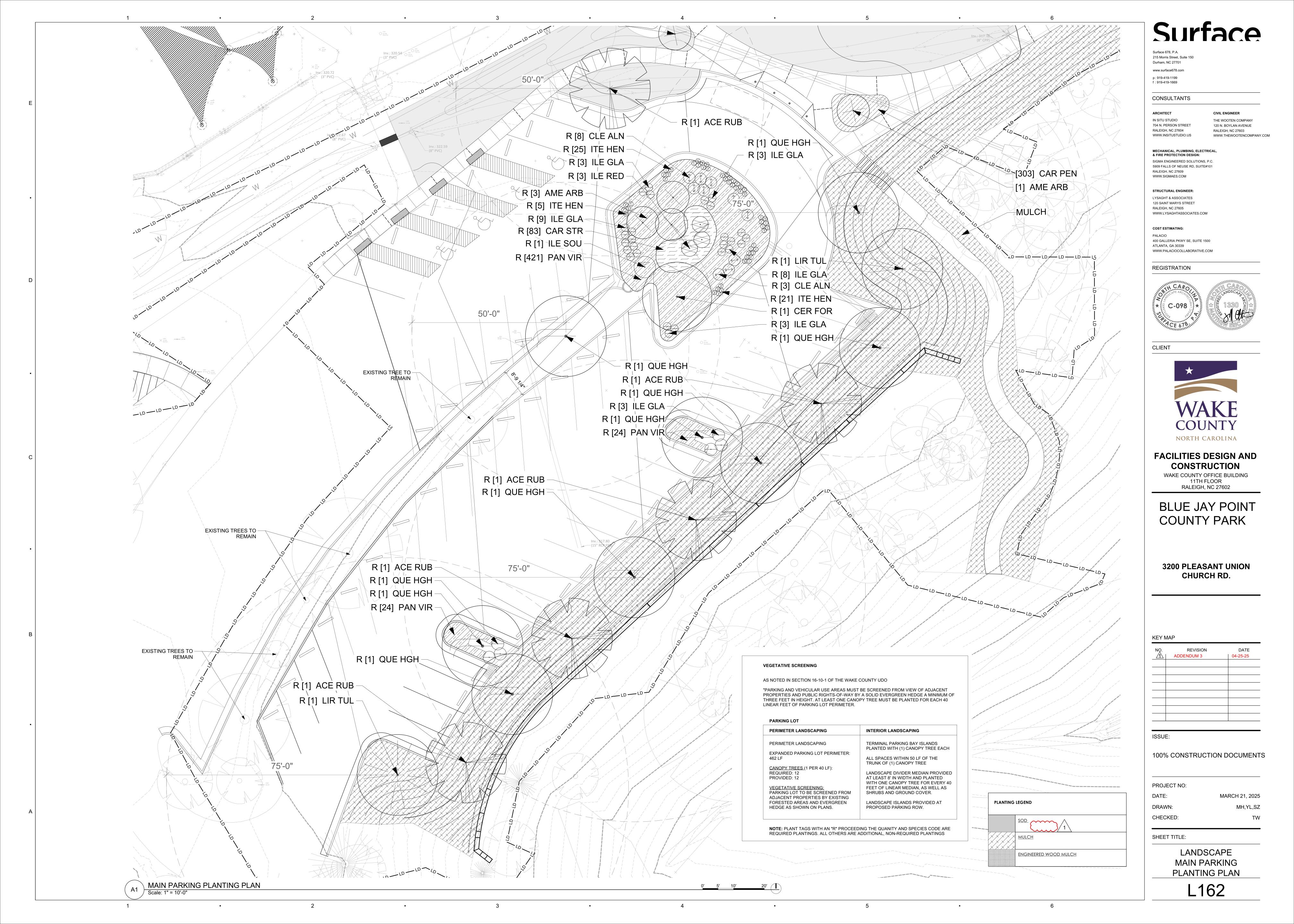
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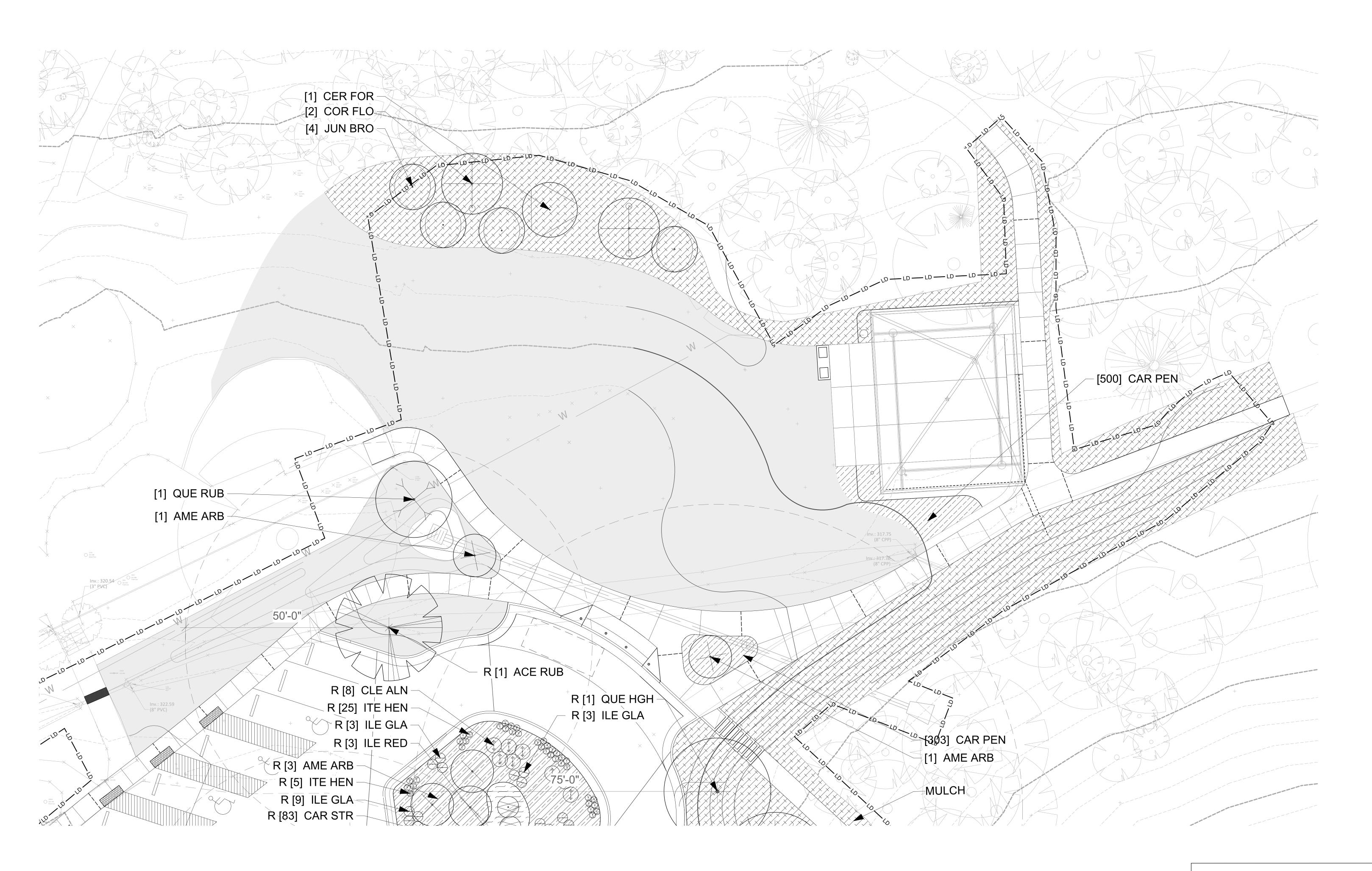
MARCH 21, 2025 MH,YL,SZ DRAWN:

SHEET TITLE:

LANDSCAPE LODGE DRIVE MATERIALS PLAN

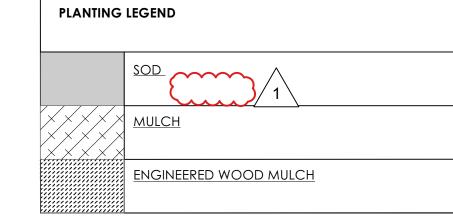






PLAYGROUND PAVILION PLANTING PLAN

Scale: 1" = 10'-0"



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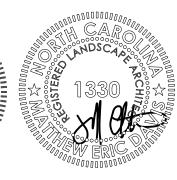
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KEY MAP

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LANDSCAPE PLAYGROUND PAVILION PLANTING PLAN



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WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

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KEY MAP

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ADDENDUM 3	04-25-25

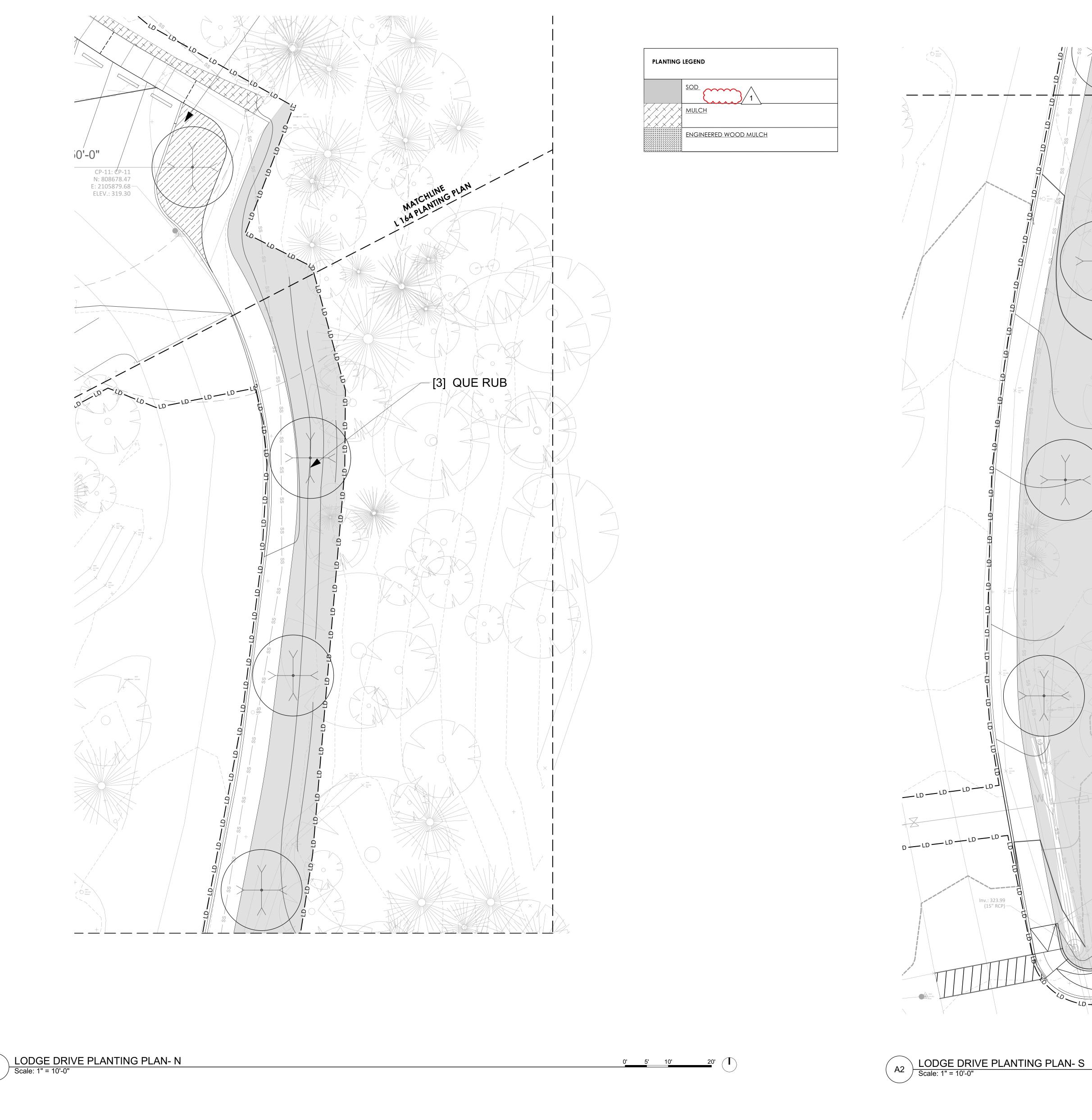
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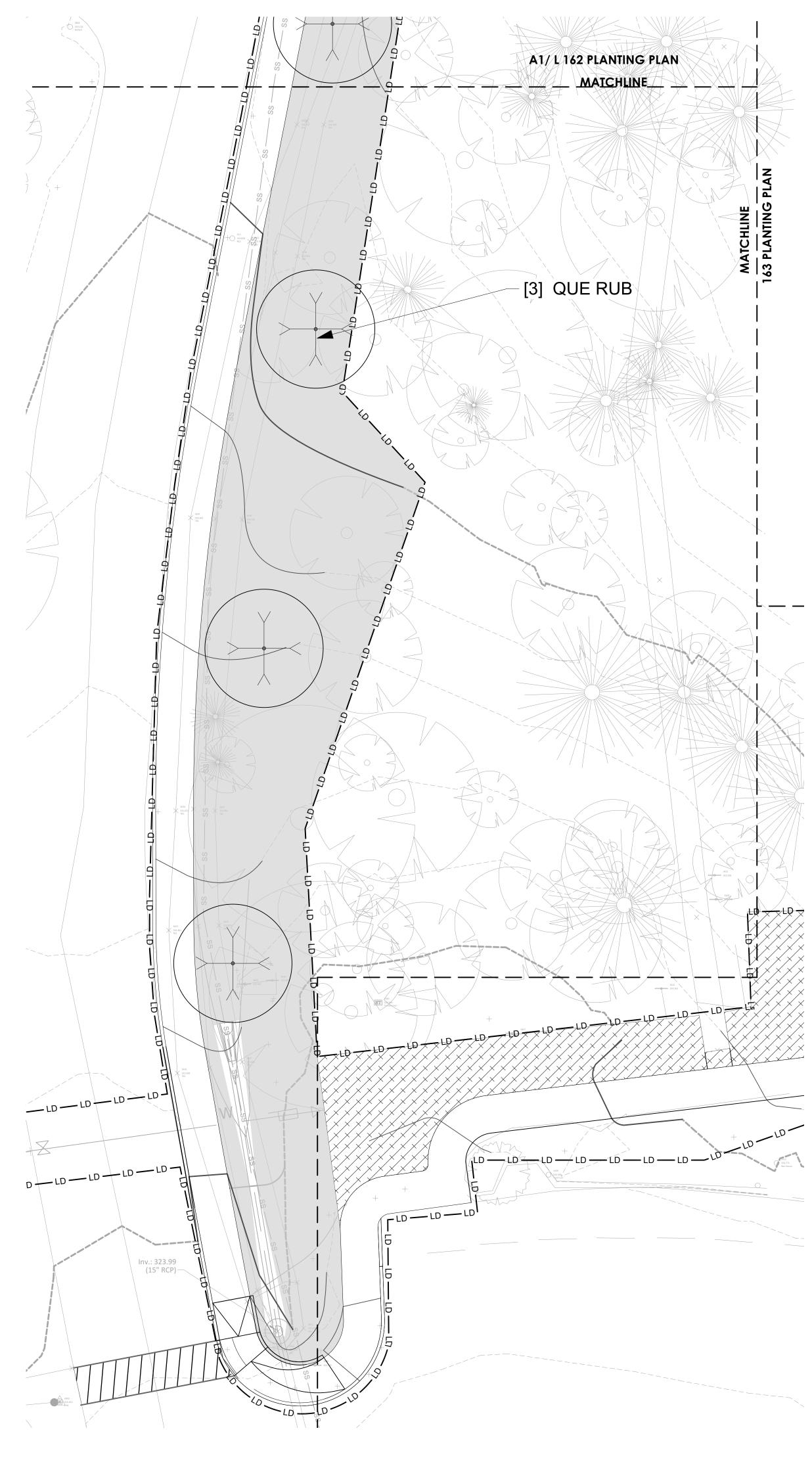
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LANDSCAPE LODGE PARKING PLANTING PLAN





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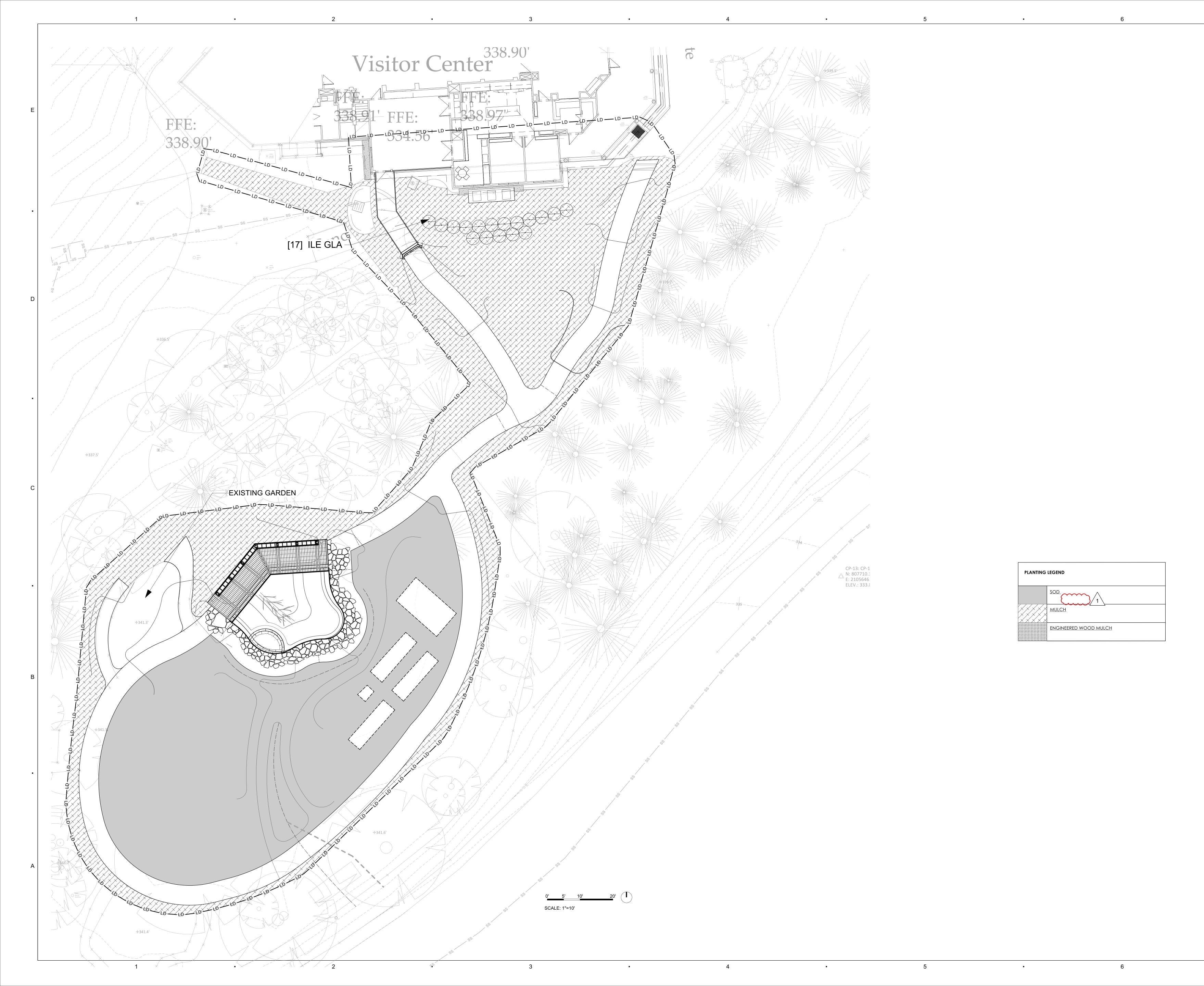
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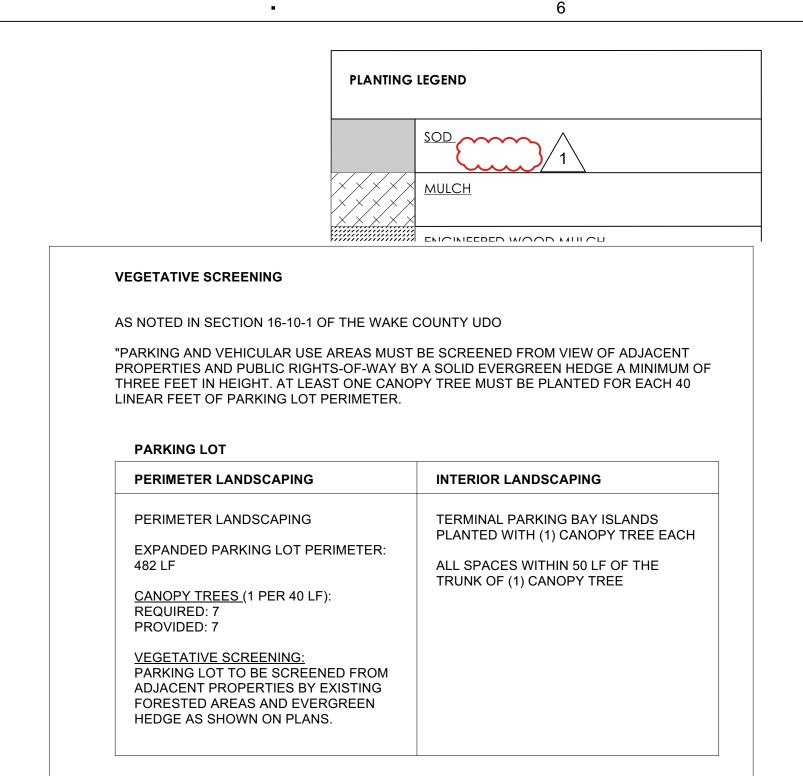
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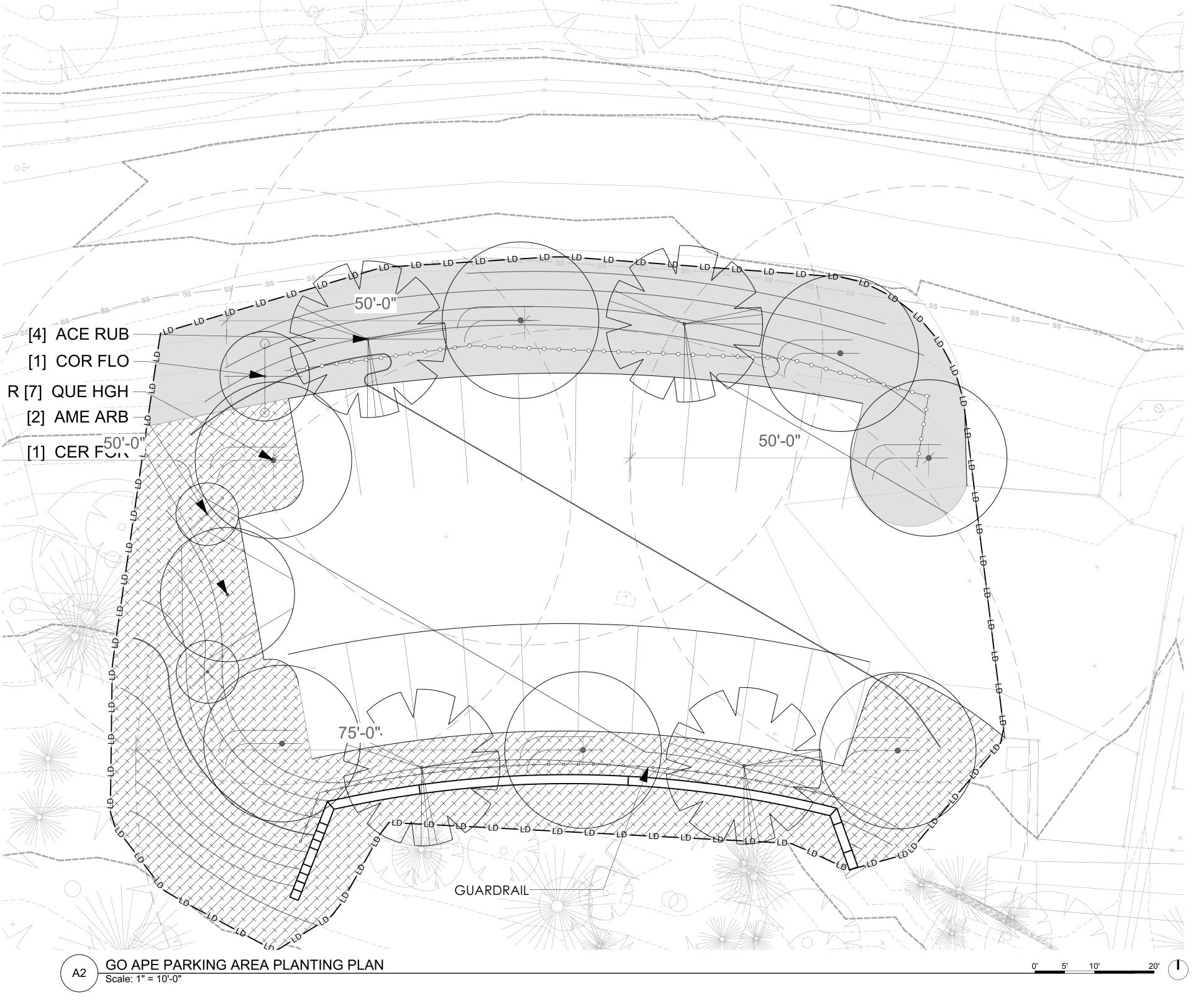
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LANDSCAPE VISITOR CENTER POND PLANTING PLAN



NOTE: PLANT TAGS WITH AN "R" PROCEEDING THE QUANITY AND SPECIES CODE ARE REQUIRED PLANTINGS. ALL OTHERS ARE ADDITIONAL, NON-REQUIRED PLANTINGS



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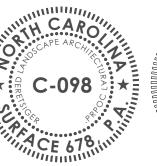
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WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

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KEY MAP

NO.	REVISION ADDENDUM 3	DATE 04-25-25

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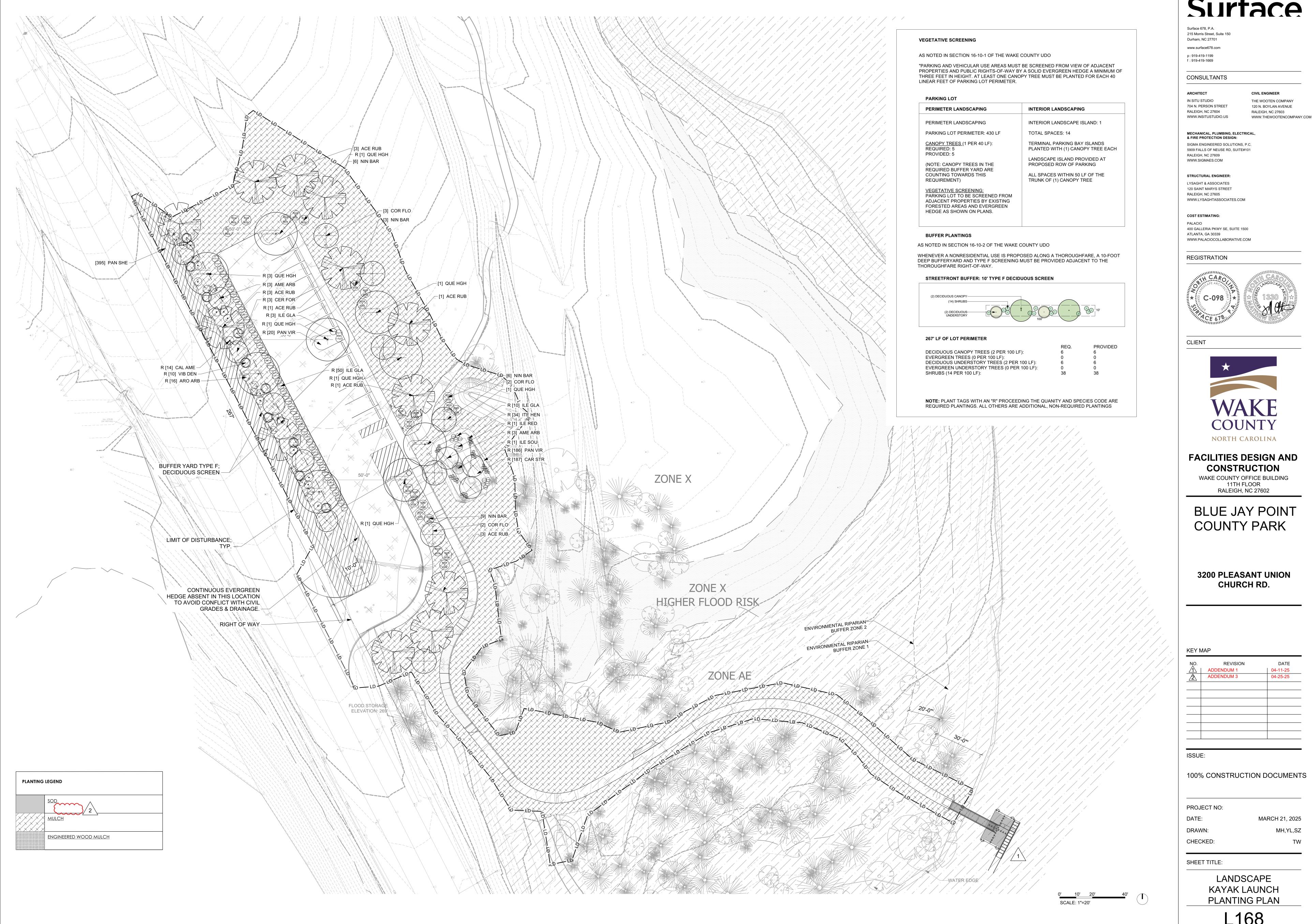
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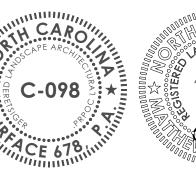
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LANDSCAPE
VISITOR CENTER & GO APE
PLANTING PLAN





THE WOOTEN COMPANY 120 N. BOYLAN AVENUE RALEIGH, NC 27603





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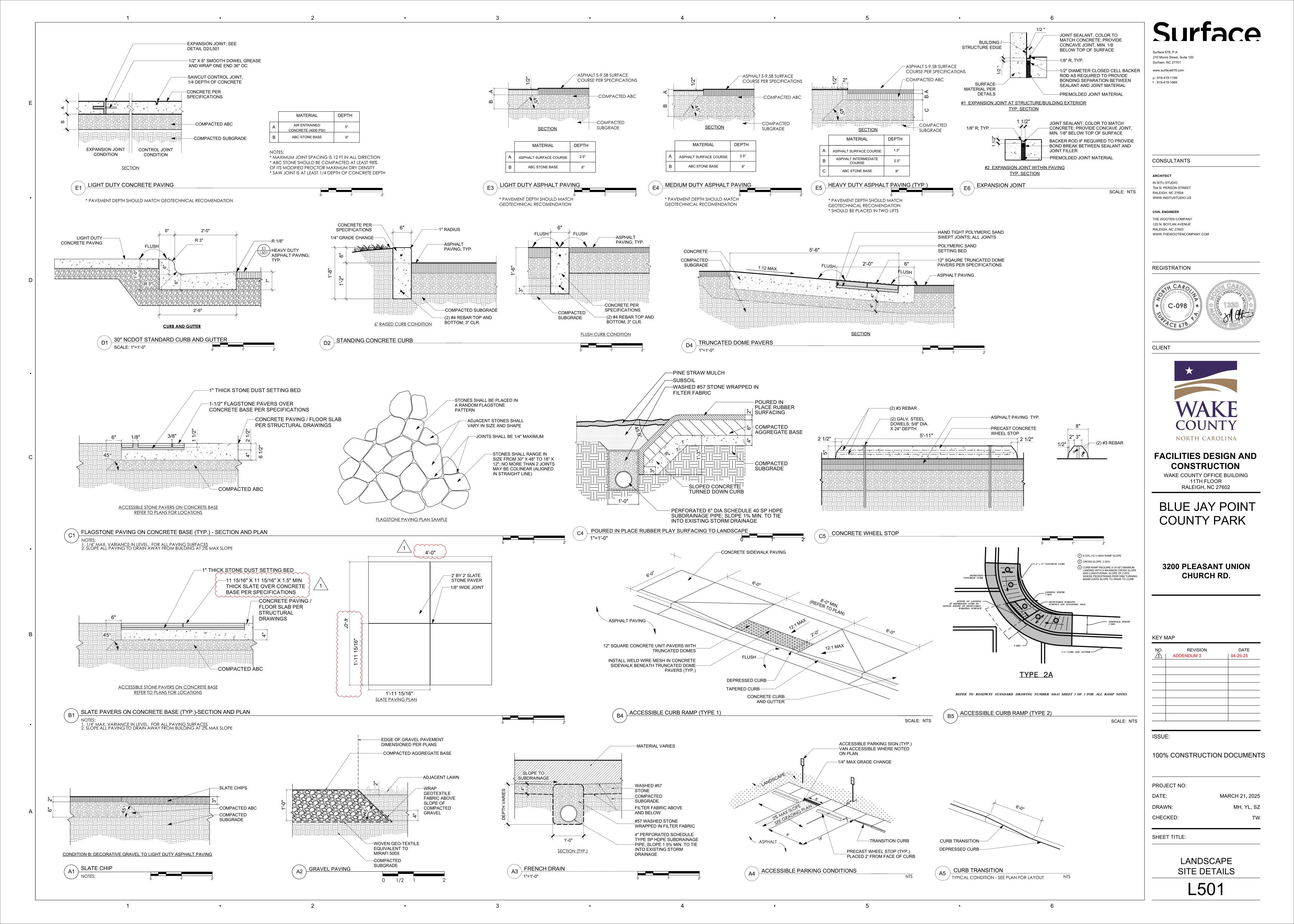
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1	ADDENDUM 1	04-11-25
2	ADDENDUM 3	04-25-25

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MARCH 21, 2025 MH,YL,SZ

> LANDSCAPE KAYAK LAUNCH PLANTING PLAN



CODE REQUIRED PLANT SCHEDULE - CONTRACTOR SHALL SATISFY ALL MEASUREMENTS NOTED - EXCEED SIZES UPON APPROVAL

KEY	QTY	LATIN NAME	COMMON NAME	CONTAINER SIZE HT W SPACING	COMMENTS
DECIDUOUS TREE	: :S				
ACE RUB	14	ACER RUBRUM	RED MAPLE	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
LIR TUL	2	LIRIODENDRON TULIPIFERA	TULIP POPLAR	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
QUE HGH	22	QUERCUS PHELLOS 'HIGHTOWER'	HIGHTOWER WILLOW OAK	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
QUE RUB	3	QUERCUS RUBRA	RED OAK	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER, EVENLY BRANCHED; FULL
JNDERSTORY DE	CIDUOUS 1	TREES			
AME ARB	12	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	B&B 2" CAL. 8' HT. 5' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
CER FOR	3	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY EASTERN REDBUD	B&B 2" CAL. 8' HT. 5' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
EVERGREEN TREE	\$				
DECIDUOUS SHR	UBS				
ARO ARB	16	aronia arbutifolia 'brilliantissima'	BRILLIANTISSIMA RED CHOKEBERRY	CONT. 3 CAL 24" HT. 24" W. AS SHOWN	FULL; DENSE; MATCHING
CAL AME	14	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	CONTAINER 15" 5' O.C.	FULL, DENSE, MATCHING
CLE ALN	11	CLETHRA ALNIFOLIA	SUMMERSWEET	CONT. 3 GAL 12" HT. 12" W. 3' O.C.	FULL; DENSE; MATCHING
ILE SOU	2	ILEX VERTICILLATA 'SOUTHERN GENTLEMAN'	SOUTHERN GENTLEMAN WINTERBER	CONT. 3 GAL 24" HT. 18" W. AS SHOWN	FULL; DENSE; MATCHING
ILE RED	8	ILEX VERTICILLATA 'WINTER RED'	WINTER RED WINTERBERRY HOLLY	CONT. 3 GAL 24" HT. 18" W. AS SHOWN	FULL; DENSE; MATCHING
ITE HEN	144	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY VIRGINIA SWEETSPIRE	CONT. 3 GAL 16" HT. 12" W. AS SHOWN	FULL; DENSE; MATCHING
VIB DEN	10	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	CONTAINER / 24" / 18" / AS SHOWN	FULL; DENSE; MATCHING
VERGREEN SHR	JBS				
ILE GLA	129	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	CONT. 5 GAL. 24" HT. 18" W. AS SHOWN	FULL; DENSE; MATCHING
ORNAMENTAL G	RASSES				
CAR STR	680	CAREX STRICTA	TUSSOCK SEDGE	CONT. 1 GAL. 18" O.C.	
PAN VIR	1,007	PANICUM VIRGATUM	SWITCHGRASS	CONT. 1 GAL. 12" HT 6" W 24" O.C.	

NOTE: PLANT TAGS WITH AN "R" PROCEEDING THE QUANITY AND SPECIES CODE ARE REQUIRED PLANTINGS. ALL OTHERS ARE ADDITIONAL, NON-REQUIRED PLANTINGS

KEY	QTY	LATIN NAME	COMMON NAME	CONTAINER SIZE HT W SPACING	COMMENTS
DECIDUOUS TREE	ES				
ACE RUB	8	ACER RUBRUM	RED MAPLE	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
LIR TUL	1	LIRIODENDRON TULIPIFERA	TULIP POPLAR	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
QUE LYR	1	QUERCUS LYRATA	OVERCUP OAK	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
QUE HGH	15	QUERCUS PHELLOS 'HIGHTOWER'	HIGHTOWER WILLOW OAK	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
QUE RUB	8	QUERCUS RUBRA	RED OAK	B&B 3" CAL. 16' HT. 8' W. AS SHOWN	STRONG CENTRAL LEADER, EVENLY BRANCHED; FULL
UNDERSTORY DE	CIDUOUS	TREES			
AME ARB	10	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	B&B 2" CAL. 8' HT. 5' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
CER FOR	6	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY EASTERN REDBUD	B&B 2" CAL. 8' HT. 5' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
COR FLO	20	CORNUS FLORIDA	FLOWERING DOGWOOD	B&B 2" CAL. 8' HT. 5' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL
EVERGREEN TREE	is				
ILE TIN	10	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY	B&B 8' HT. 4' W. AS SHOWN	STRONG CENTRAL LEADER; EVENLY BRANCHED; FULL, FULL TO
JUN BRO	7	JUNIPERUS VIRGINIANA 'BRODIE'	BRODIE RED CEDAR	B&B 10' HT. 4' W. AS SHOWN	STRONG CENTRAL LEADER; DENSE; EVENLY BRANCHED; FULL
DECIDUOUS SHR	UBS				
ILE SOU	1	ILEX VERTICILLATA 'SOUTHERN GENTLEMAN'	SOUTHERN GENTLEMAN WINTERBER	CONT. 3 GAL 24" HT. 18" W. AS SHOWN	FULL; DENSE; MATCHING
ITE HEN	51	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY VIRGINIA SWEETSPIRE	CONT. 3 GAL 16" HT. 12" W. AS SHOWN	FULL; DENSE; MATCHING
NIN BAR	24	PHYSOCARPUS OPULIFOLIUS	NINE BARK	CONT. 3 GAL 24" HT. 18" W. AS SHOWN	FULL; DENSE; MATCHING
EVERGREEN SHR	UBS				
ILE GLA	44	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	CONT. 5 GAL. 24" HT. 18" W. AS SHOWN	FULL; DENSE; MATCHING
ORNAMENTAL G	RASSES				
CAR PEN	2,778	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	CONT. 1 GAL. 12" O.C.	
PAN SHE	622	PANICUM SHENADOAH	SWITCHGRASS	CONT. 1 GAL. 12" HT 12" W AS SHOWN	

General Standards. All required landscape plant materials, inclusive of trees, shrubs and groundcovers, must comply with the American Nurseryman's Standards. Neither nonnative nor invasive plant species may be used for planting in landscaping and bufferyards. The designer is responsible for researching proposed species utilized in the plantings and indicate on the plans that the material being used is native to our geographical area.

(a) Deciduous canopy trees must have a minimum size of two-inch caliper and a minimum height of ten feet at the time of planting and be planted at least 18 feet apart.

(b) Deciduous understory trees must have a minimum height of eight feet at the time of planting and be planted at least 12 feet apart.

(c) Evergreen trees must have a minimum height of eight feet at the time of planting (unless mixed with deciduous trees in which case a minimum height of four feet is required).

(d) Evergreen understory trees must have a minimum height of six feet at the time of planting.

(5) Shrubs.

(a) All shrubs must be cold hardy and heat tolerant.

(b) Upright shrubs must have a minimum height of 15 inches at the time of planting.

(c) Shrubs may not be planted closer than three feet on-center or closer than three feet to planted trees.

(6) Minimum Height at Maturity. Trees and shrubs must be of a variety that has a minimum mature height that will meet the minimum screening requirements for which they were chosen. Deciduous canopy trees must be of a species that will reach a minimum height of 35 feet at maturity. Deciduous understory trees must be of a species that will reach a minimum height of 15 feet at maturity. Evergreen trees must be of a species that will reach a minimum height of 35 feet at maturity. Evergreen understory trees must be of a species that will reach a minimum height of 20 feet at maturity. Shrubs must be of a species that will grow to a minimum height of 36 inches at maturity.

1. EXISTING UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING WORK. IDENTIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING AROUND EXISTING UTILITIES TO REMAIN.

2. PLANT LIST IS PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF DISCREPANCIES

3. AFTER THE SITE IS STABILIZED AND FREE OF SEDIMENTATION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES, SILT, RIP RAP, AND TEMPORARY STONE STAGING AREAS FOR REPLACEMENT WITH PLANTING SOIL. PROVIDE PLANTING ACCORDING TO THE LANDSCAPE PLAN.

PREPARATION OF PERMANENT SEED, SOD OR LANDSCAPE BEDS.

5. UNLESS OTHERWISE NOTED IN THE PLANT LIST, OWNER SHALL OBTAIN AND INSTALL

6. ALL TREES SHALL BE OBTAINED FROM THE NURSERY WITH EXPOSED ROOT CROWNS. B&B MATERIAL DELIVERED TO SITE WITH BURIED OR RECENTLY BURIED ROOT CROWNS WILL BE REJECTED.

ANY MEASUREMENT OR SPECIES INDICATED AND SHALL BE APPROVED BY WAKE COUNTY PLANNING STAFF. SEE SPECIFICATIONS FOR FULL NOTIFICATION REQUIREMENTS.

8. CONTRACTOR SHALL STAKE ALL PLANT LOCATIONS IN THE FIELD. OBTAIN APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO STARTING PLANT INSTALLATIONS

THAT DISRUPTS FLOW OR CHANGES LONGITUDINAL SLOPES.

OBTAINED, FILL THE CENTER OF EACH AREA WITH PLANTS ACCORDING TO THE PLAN AND SPACING NOTES.

10. THE PLANTING LAYOUT WITHIN PLANTING BEDS SHOULD BE SHIFTED TO MINIMIZE CONFLICTS WITH EXISTING TREE ROOTS AND OTHER STRUCTURES.

11. DISTURBED EARTH AREAS BEYOND PROJECT LIMITS THAT ARE DIRECTLY CAUSED BY CONTRACTOR MEANS AND METHODS SHALL BE RESTORED WITH BERMUDA SOD / UNLESS OTHERWISE NOTED.

ANSI Z-60.1.

BETWEEN THE PLAN AND PLANT LIST QUANTITIES, THE PLAN SHALL TAKE PRECEDENCE.

4. TEMPORARY EROSION CONTROL SEED MUST BE FULLY REMOVED PRIOR TO

ONLY PLANT MATERIAL THAT IS GROWN ON ITS OWN ROOT - GRAFTED OR BUDDED PLANT MATERIAL WILL BE REJECTED.

7. CONTRACTOR WILL NOTIFY LANDSCAPE ARCHITECT OF PLANT SUBSTITUTIONS IN

8. DO NOT PLANT IN STORM WATER CONVEYANCE SWALES OR PROVIDE FINE GRADING

9. PLANT THE OUTER EDGES OF EACH PLANTING GROUP FOLLOWING THE BED OUTLINE ACCORDING TO THE PLAN. ONCE A SATISFACTORY MATCHED OUTER SHAPE IS

12. ALL PLANT MATERIAL SHALL COMPLY WITH AMERICAN NURSERY STOCK STANDARD

CAR PEN

PLANTING NOTES - APPLY TO ALL PLANTING PLAN SHEETS

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ARCHITECT CIVIL ENGINEER IN SITU STUDIO THE WOOTEN COMPANY 704 N. PERSON STREET 120 N. BOYLAN AVENUE

RALEIGH, NC 27603

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MECHANICAL, PLUMBING, ELECTRICAL, & FIRE PROTECTION DESIGN: SIGMA ENGINEERED SOLUTIONS, P.C.

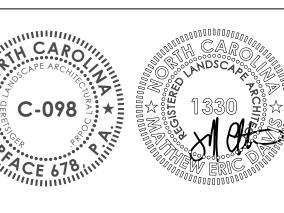
5909 FALLS OF NEUSE RD, SUITE#101 RALEIGH, NC 27609 WWW.SIGMAES.COM STRUCTURAL ENGINEER:

LYSAGHT & ASSOCIATES 120 SAINT MARYS STREET RALEIGH, NC 27605 WWW.LYSAGHTASSOCIATES.COM

COST ESTIMATING:

PALACIO 400 GALLERIA PKWY SE, SUITE 1500 ATLANTA, GA 30339 WWW.PALACIOCOLLABORATIVE.COM

REGISTRATION



CLIENT



FACILITIES DESIGN AND CONSTRUCTION

WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

BLUE JAY POINT COUNTY PARK

3200 PLEASANT UNION CHURCH RD.

KEY MAP

NO.	REVISION ADDENDUM 3	DATE 04-25-25

100% CONSTRUCTION DOCUMENTS

PROJECT NO:

DATE: MARCH 21, 2025 MH,YL,SZ DRAWN:

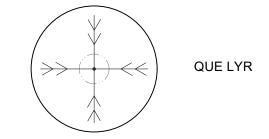
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SHEET TITLE:

LANDSCAPE PLANT SCHEDULE

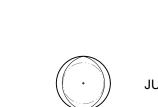
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PLANT LEGEND



QUE HGH

· ·





AME ARB





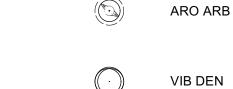














CAL AME

ILE GLA

© ITE HEN

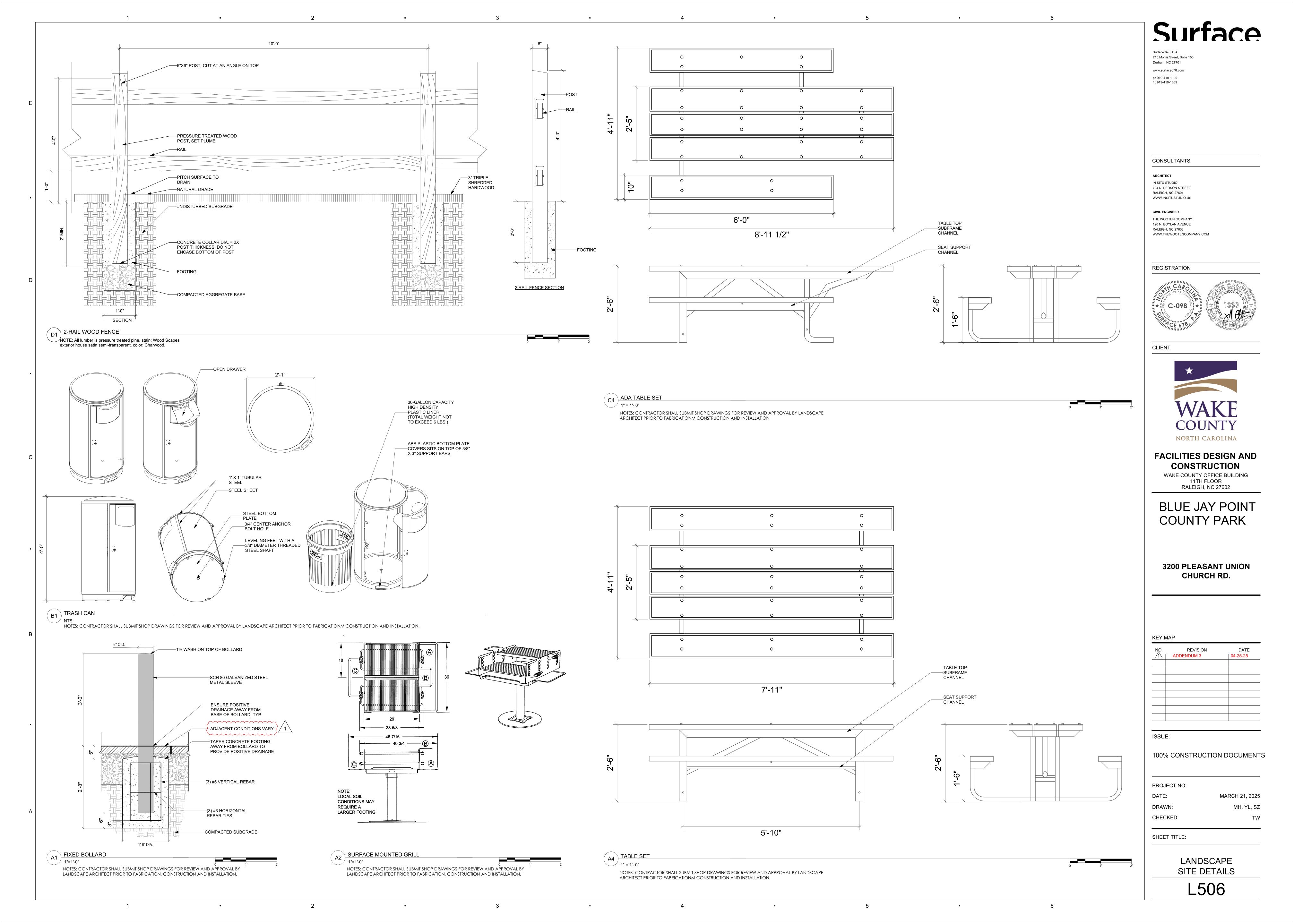


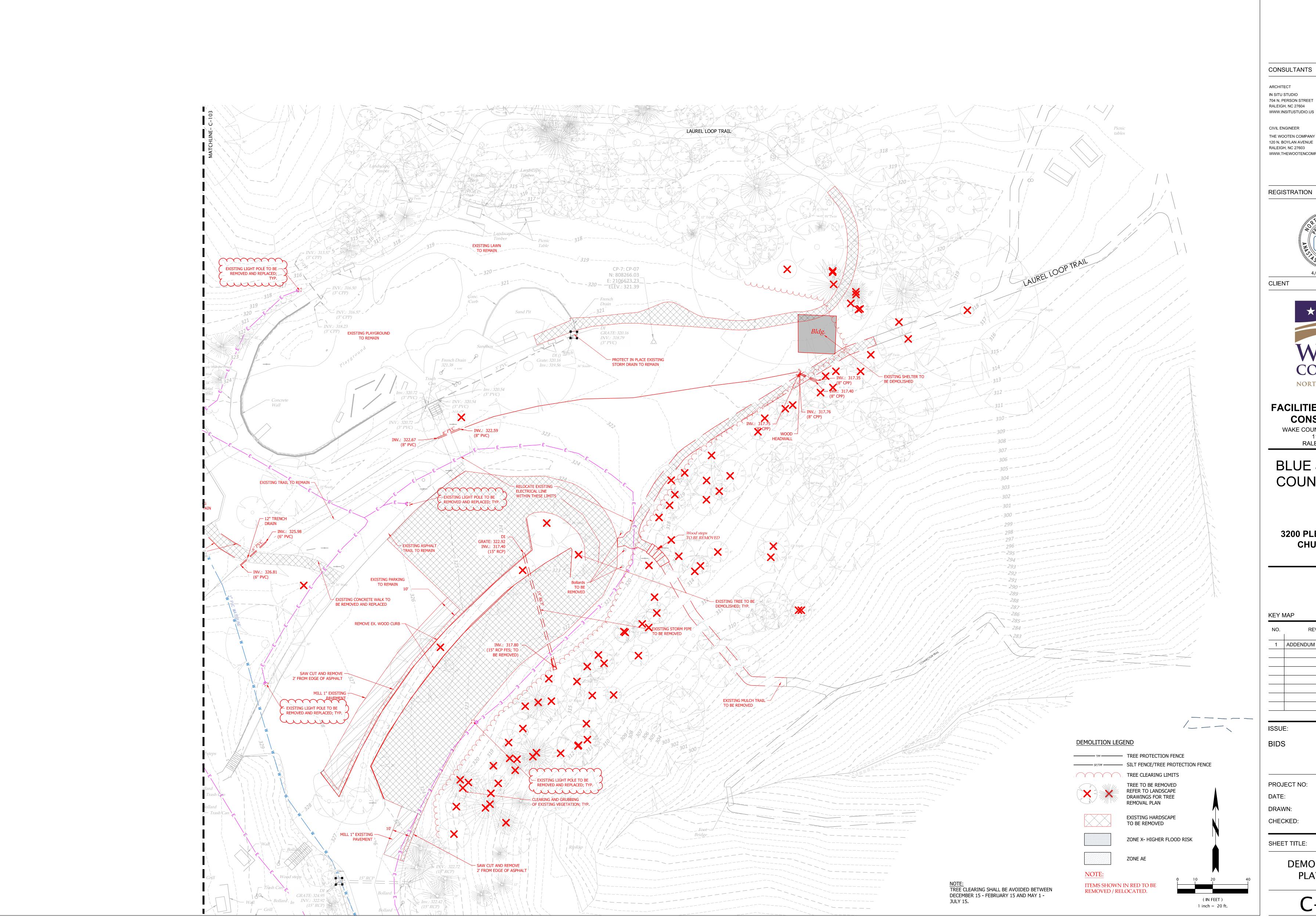






CER FOR





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f: 919-419-1669

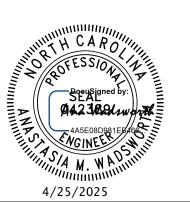
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CIVIL ENGINEER THE WOOTEN COMPANY

120 N. BOYLAN AVENUE RALEIGH, NC 27603 WWW.THEWOOTENCOMPANY.COM

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FACILITIES DESIGN AND CONSTRUCTION

WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

BLUE JAY POINT COUNTY PARK

3200 PLEASANT UNION CHURCH ROAD

1	ADDENDUM NO. 2	4/10/25
	•	

REVISION

ISSUE:

BIDS

PROJECT NO:

APRIL 11, 2025 CHECKED:

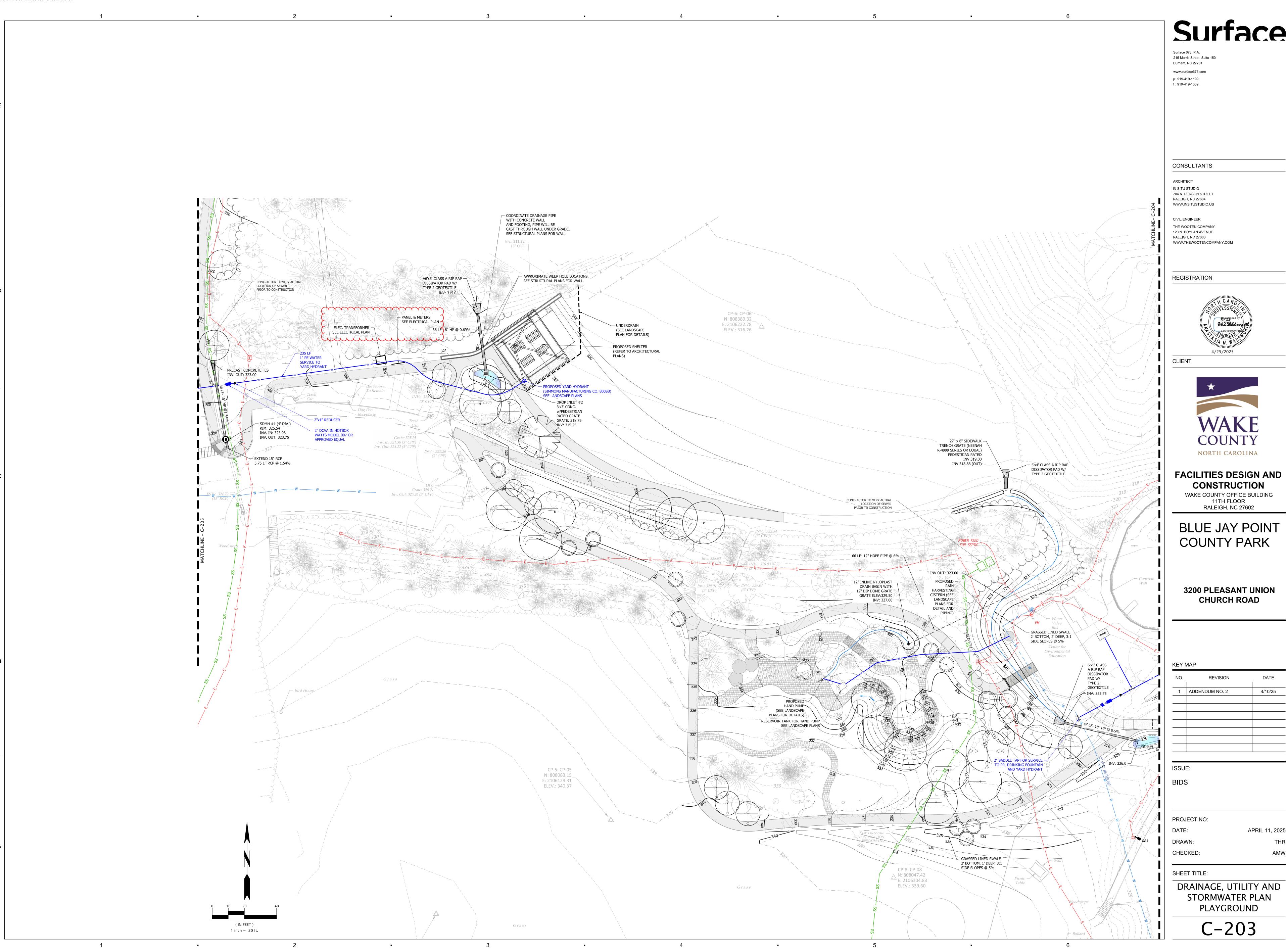
SHEET TITLE:

DEMOLITION PLAN PLAYGROUND

C - 104

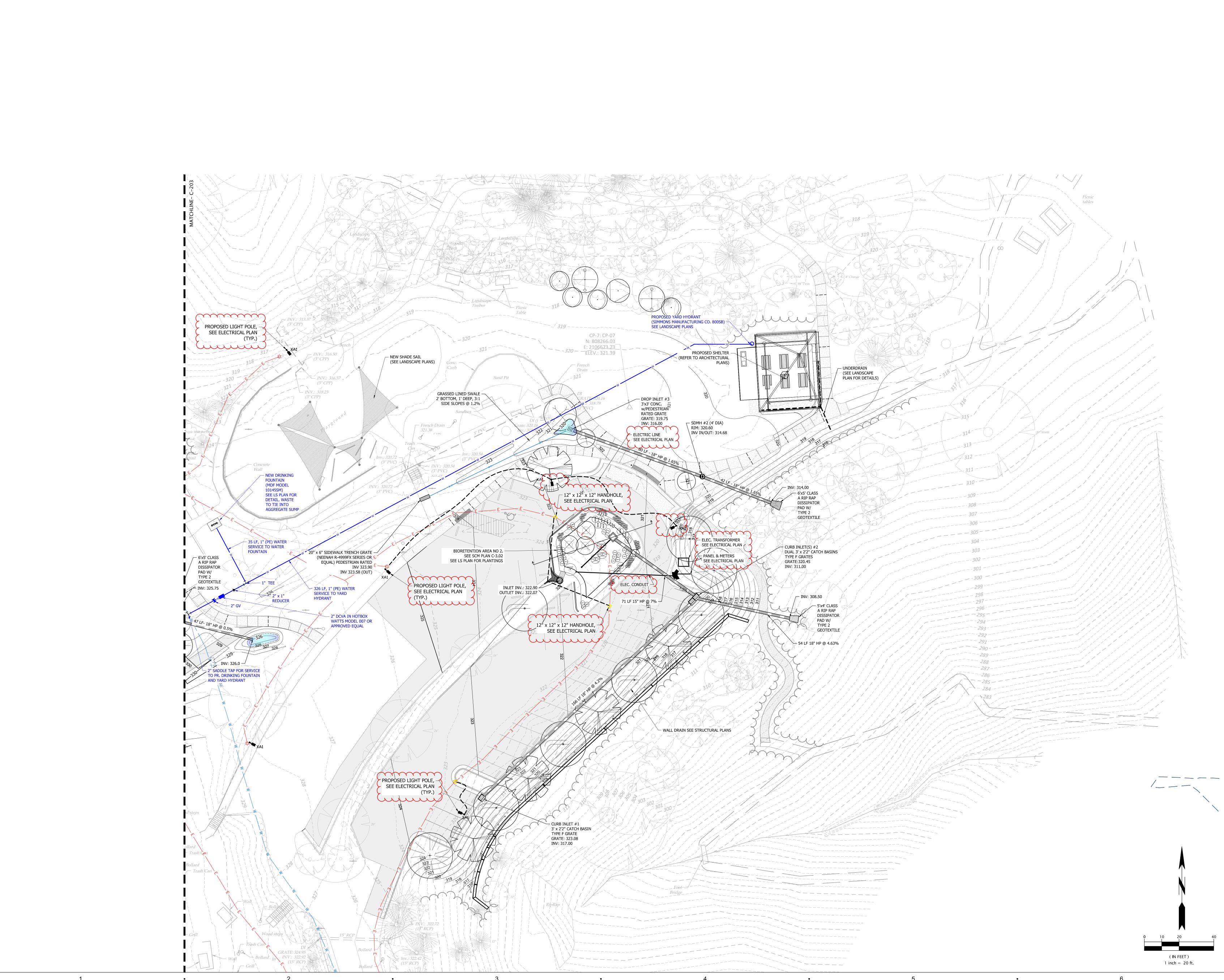


NO.	REVISION	DATE
1	ADDENDUM NO. 2	4/10/25



NO.	REVISION	DATE
1	ADDENDUM NO. 2	4/10/25

STORMWATER PLAN



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FACILITIES DESIGN AND CONSTRUCTION

WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

BLUE JAY POINT COUNTY PARK

3200 PLEASANT UNION CHURCH ROAD

KEY MAP

NO.	REVISION	DATE
	ADDENDUM NO. 2	4/10/25
	ADDENDOW NO. 2	4/10/23
-		

ISSUE:

BIDS

PROJECT NO: DATE:

DATE: APRIL 11, 2025

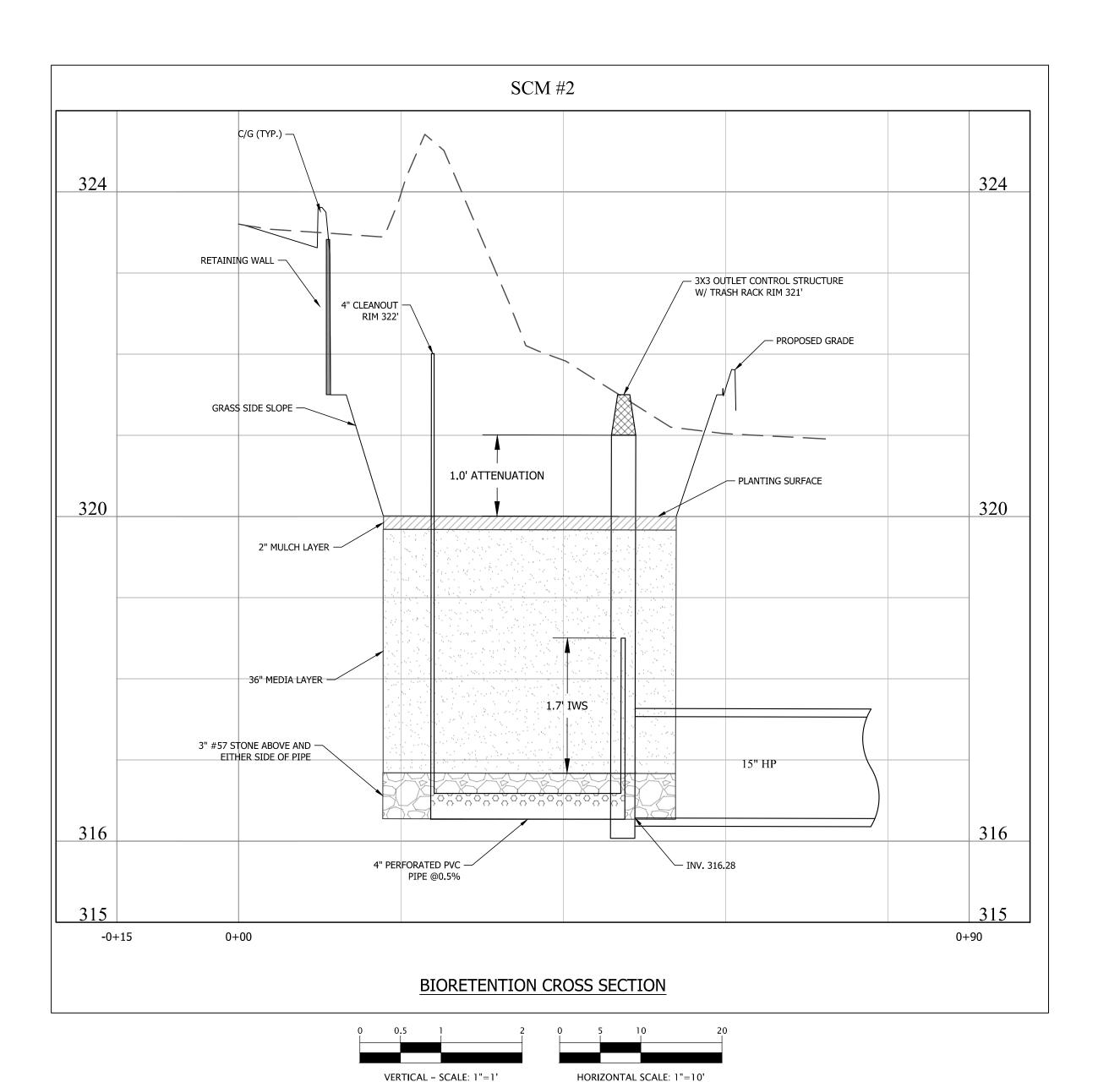
DRAWN: THR

CHECKED: AMW

SHEET TITLE:

DRAINAGE, UTILITY AND
STORMWATER PLAN
PLAYGROUND

C-204



SHWT ESTIMATED SHWT DEEPER THAN 10' BELOW EXISTING GRADE LOWEST POINT OF SCM: 316.25' ASSUMED SHWT: DEEPER THAN 313.50'

SEPARATION: ≥2.75'

MEDIA NOTES: BIORETENTION MDC 5: MEDIA DEPTH

- BIORETENTION MDC 5: MEDIA DEPTH.

 The minimum depth of the media depends on the design of the cell as follows:

 (a) all cells with trees and shrubs: 36 inches;
- (b) cells without trees and shrubs:(i) with no internal water storage: 24 inches; or(iii) with internal water storage: 30 inches.

BIORETENTION MDC 6: MEDIA MIX.

- The media shall be a homogeneous soil mix engineered media blend with approximate volumes of:

 (a) 75 to 85 percent medium to coarse washed sand (ASTM C33,

 AASHTO M 6/M 80, ASTM C330, AASHTO M195, or the equivalent);
- (b) 8 to 15 percent fines (silt and clay); and(c) 5 to 10 percent organic matter (such as pine bark fines).
- BIORETENTION MDC 7: MEDIA P-INDEX.

The phosphorus index (P-index) for the media shall not exceed 30 in NSW waters as defined in 15A NCAC 02B .0202 and shall not exceed 50 elsewhere.

- BIORETENTION MDC 8: NO MECHANICAL COMPACTION.

 The media shall not be mechanically compacted. It is recommended to either water it or walk on it as it is placed.
- as it is placed.

 BIORETENTION MDC 9: MAINTENANCE OF MEDIA.
- The bioretention cell shall be maintained in a manner that results in a drawdown of at least one inch per hour at the planting surface.

1 inch = 10 ft.

BIORETENTION MAINTENANCE REQUIREMENTS ARE TYPICAL LANDSCAPE CARE PROCEDURES AND INCLUDE:

• WATERING: PLANTS SHOULD BE SELECTED TO BE TOLERANT OF THE BIORETENTION FACILITY'S PARTICULAR CONDITIONS. WATERING MAY BE REQUIRED TO INITIALLY ESTABLISH THE VEGETATION. WATERING SHOULD NOT BE REQUIRED AFTER ESTABLISHMENT (ABOUT 2 TO 3 YEARS). HOWEVER, WATERING MAY BE REQUIRED DURING PROLONGED DRY PERIODS AFTER PLANTS ARE ESTABLISHED.

• EROSION CONTROL: INSPECT FLOW ENTRANCES, PONDING AREA, AND SURFACE OVERFLOW AREAS

PERIODICALLY. REPLACE SOIL, PLANT MATERIAL, AND/OR MULCH IN AREAS WHERE EROSION HAS OCCURRED. EROSION PROBLEMS SHOULD NOT OCCUR WITH PROPER DESIGN EXCEPT DURING EXTREME WEATHER EVENTS. IF EROSION PROBLEMS DO OCCUR, THE FOLLOWING ISSUES SHOULD BE REASSESSED: FLOW VOLUMES FROM THE CONTRIBUTING DRAINAGE AREA AND BIORETENTION SIZE; FLOW VELOCITIES AND GRADIENTS WITHIN THE BIORETENTION FACILITY; FLOW DISSIPATION AND EROSION PROTECTION METHODS IN THE PRETREATMENT AND IN-FLOW AREAS. IF SEDIMENT IS DEPOSITED IN THE BIORETENTION FACILITY, IMMEDIATELY DETERMINE THE SOURCE, REMOVE EXCESS DEPOSITS, AND CORRECT THE PROBLEM.

PLANT MATERIAL: DEPENDING ON PLANTS SELECTED AND AESTHETIC REQUIREMENTS, OCCASIONAL
PRUNING AND REMOVAL OF DEAD PLANT MATERIAL MAY BE NECESSARY. BE CAREFUL TO PRUNE TREES AND SHRUBS TO MAINTAIN LINES OF SIGHT IN PARKING LOTS AND ALONG ROADWAYS. NCDOT STATES: "SHRUBS MUST BE KEPT LOW, AND TREES AND LARGE SHRUBS UNDER-TRIMMED SUFFICIENTLY TO PERMIT CLEAR SIGHT IN THE AREA BETWEEN 2 FEET AND 6 FEET ABOVE ROADWAY ELEVATIONS. REPLACE ALL DEAD PLANTS. HOWEVER, IF SPECIFIC PLANTS CONSISTENTLY HAVE A HIGH MORTALITY RATE, ASSESS THE CAUSE AND REPLACE WITH APPROPRIATE SPECIES. PERIODIC WEEDING IS NECESSARY UNTIL GROUNDCOVER PLANTS ARE ESTABLISHED. WEEDING SHOULD BECOME LESS FREQUENT IF AN APPROPRIATE PLANT DENSITY

HAS BEEN ESTABLISHED.

• NUTRIENTS AND PESTICIDES: THE SOIL MEDIA AND PLANT MATERIAL SHOULD HAVE BEEN SELECTED FOR OPTIMUM FERTILITY, PLANT ESTABLISHMENT, AND GROWTH WITHIN THE PARTICULAR CONDITIONS OF EACH BIORETENTION FACILITY. NUTRIENT AND PESTICIDE INPUTS SHOULD NOT BE REQUIRED AND WILL DEGRADE THE POLLUTANT PROCESSING CAPABILITY OF THE BIORETENTION FACILITY, AS WELL AS CONTRIBUTE TO ADDITIONAL POLLUTANT LOADING TO RECEIVING WATERS. BY DESIGN, BIORETENTION FACILITIES ARE TYPICALLY SPECIFIED IN WATERSHEDS WHERE PHOSPHOROUS AND NITROGEN LEVELS ARE OFTEN ELEVATED. THEREFORE, THESE SHOULD NOT BE LIMITING NUTRIENTS WITH REGARD TO PLANT HEALTH. IF IN QUESTION, HAVE THE SOIL ANALYZED FOR FERTILITY. ADDITION OF COMMERCIAL FERTILIZER OR COMPOST

• MULCH: REPLACE MULCH ANNUALLY IN BIORETENTION FACILITIES WHERE HEAVY METAL DEPOSITION IS LIKELY (E.G., DRAINAGE AREAS THAT INCLUDE COMMERCIAL/INDUSTRIAL USES, PARKING LOTS, OR ROADS). METAL 'HOT SPOTS' OCCUR WHERE WATER ENTERS THE BED. IN RESIDENTIAL OR OTHER SETTINGS WHERE METAL DEPOSITION IS NOT A CONCERN, REPLACE OR ADD MULCH AS NEEDED TO MAINTAIN A 2 TO 4-INCH DEPTH.

TO BIORETENTION WILL LIKELY RESULT IN NUTRIENT EXPORT FROM THE BED.

CLOGGED FILTER FABRIC IS PRESENT, THE BED WILL NEED TO BE REBUILT.

• FILTERING CAPACITY: WHEN THE FILTERING CAPACITY DIMINISHES SUBSTANTIALLY (E.G., WHEN WATER PONDS ON THE SURFACE FOR MORE THAN 12 HOURS), REMEDIAL ACTIONS MUST BE TAKEN. IF THE WATER STILL PONDS FOR MORE THAN 12 HOURS, THE TOP FEW INCHES OF MATERIAL SHOULD BEREMOVED AND REPLACED WITH FRESH MATERIAL. THE REMOVED SEDIMENTS SHOULD BE DISPOSED OF IN AN ACCEPTABLE MANNER (E.G., LANDFILL) OR LAND APPLICATION. IF THAT DOES NOT SOLVE THE PROBLEM, MORE EXTENSIVE REBUILDING IS REQUIRED. IF THE BED HAS FILTER FABRIC INSTALLED UNDER THE MEDIA AND ABOVE THE WASHED ROCK, THE FILTER FABRIC MAY BE CLOGGED WITH SEDIMENT. IF

IMPORTANT OPERATION AND MAINTENANCE PROCEDURES:

BIORETENTION CELL.

IMMEDIATELY AFTER THE BIORETENTION CELL IS ESTABLISHED, THE PLANTS WILL BE WATERED TWICE WEEKLY IF NEEDED UNTIL THE PLANTS BECOME ESTABLISHED (COMMONLY SIX WEEKS).
SNOW, MULCH OR ANY OTHER MATERIAL WILL NEVER BE PILED ON THE SURFACE OF THE

HEAVY EQUIPMENT WILL NEVER BE DRIVEN OVER THE BIORETENTION CELL.

 SPECIAL CARE WILL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE BIORETENTION.

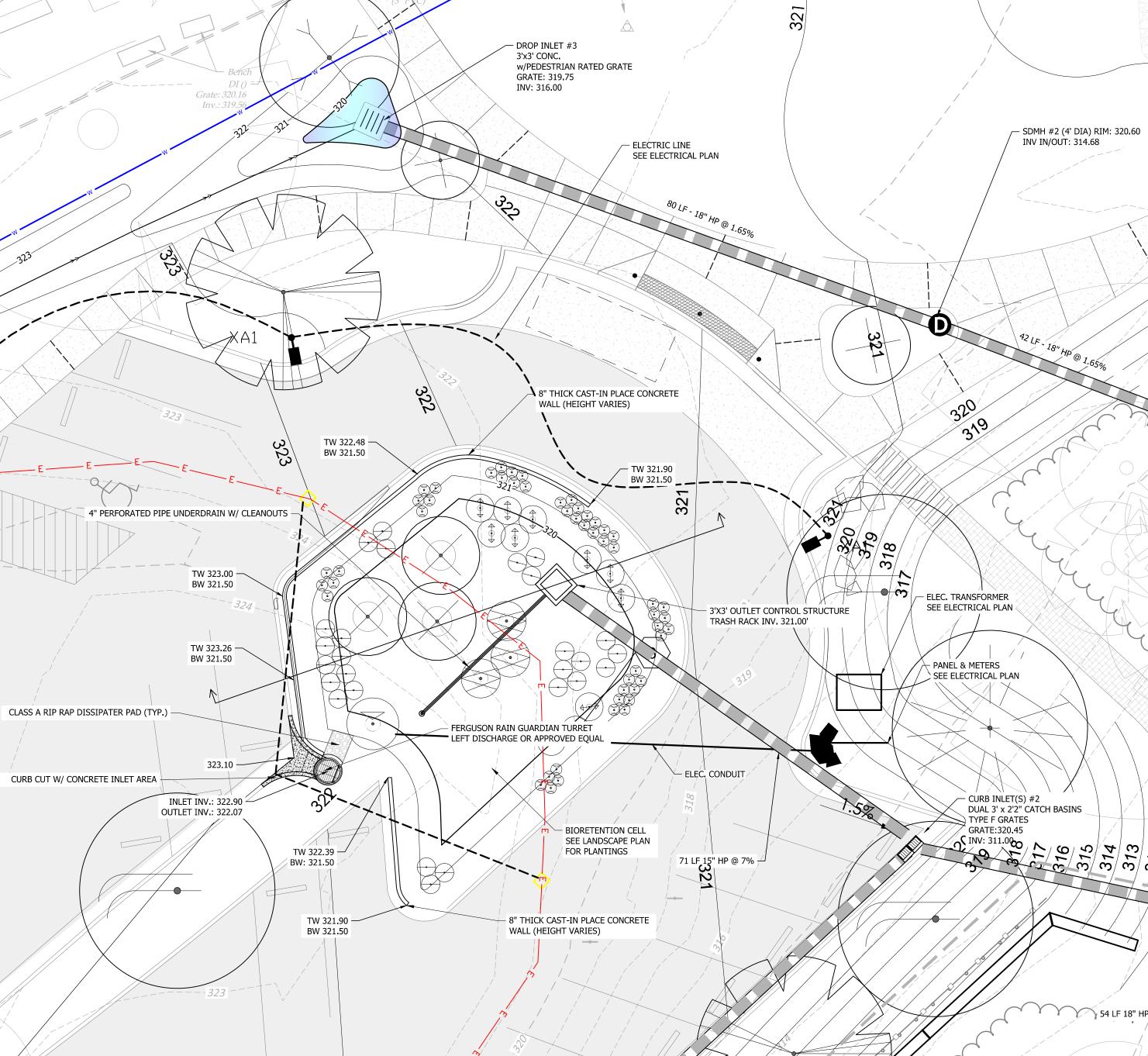
 \bullet SPECIAL CARE WILL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE BIORETENTION CELL.

• ONCE A YEAR, A SOIL TEST OF THE SOIL MEDIA WILL BE CONDUCTED.

MEDIA SPECIFICATION, THE POOL SHOULD DRAIN WITHIN 24 HOURS.

• AFTER THE BIORETENTION CELL IS ESTABLISHED, INSPECT IT ONCE A QUARTER. RECORDS OF OPERATION AND MAINTENANCE WILL BE KEPT IN A KNOWN SET LOCATION AND WILL BE AVAILABLE UPON REQUEST.

• INSPECTION ACTIVITIES SHALL BE PERFORMED AS FOLLOWS. ANY PROBLEMS THAT ARE FOUND SHALL BE REPAIRED IMMEDIATELY.
• REMOVE TOP LAYER OF FILL MEDIA WHEN THE POOL DOES NOT DRAIN QUICKLY. BASED ON THE



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FACILITIES DESIGN AND CONSTRUCTION

WAKE COUNTY OFFICE BUILDING 11TH FLOOR RALEIGH, NC 27602

BLUE JAY POINT COUNTY PARK

3200 PLEASANT UNION CHURCH ROAD

KEY MAP

NO.	REVISION	DATE
1	ADDENDUM NO. 2	4/10/25

ISSUE:

BIDS

PROJECT NO:

DATE: APRIL 11, 2025
DRAWN: THR

SHEET TITLE:

STORMWATER
MANAGEMENT PLAN
PLAYGROUND

C - 302

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Mechanical door hardware for the following:
 - a. Swinging doors.
- 1.2 Related Sections:
 - A. 01 12 00 "ALLOWANCES."

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
- B. Keying Conference: Conduct conference at Project site. The keying conference is to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys and cylinder cores.
 - 5. Address and requirements for delivery of keys.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Door hardware schedule.
- C. Keying schedule.

1.5 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.6 ALLOWANCE

B. Provide Allowance for Owner-preferred hardware (materials only) per Section 01 21 00.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated below:
 - a. Exit Devices: Two years from date of Substantial Completion.
 - b. Manual Closers: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS

- A. During all renovation, retrofit or restack projects, all door hardware shall match the existing hardware within the building, floor, or suite.
- B. Final specified lockset and exit device functions shall be approved by the County.
- C. Wide stile exit devices are preferred. Door stile shall be wide enough to accommodate a wide stile exit device or mortise lockset.

2.2 PERFORMANCE REQUIREMENTS

- A. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- B. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the USDOJ's "2010 ADA Standards for Accessible Design" the DOT's "ADA Standards for Transportation Facilities" the ABA standards of the Federal agency having jurisdiction ICC A117.1 HUD's "Fair Housing Accessibility Guidelines"."

2.3 ELECTRONIC ACCESS CONTROL SYSTEMS

- A. Electromagnetic (mag) locks, electric strikes and electrified storefront deadlatches should be avoided. The County prefers electrified mortise locksets and exit devices.
- B. All doors that incorporate electronic access control systems shall have locking power supplies centrally located inside the defined security "drop" location. These power supplies shall be provided and installed by the electronic security contractor. If a door requires electronic locking hardware and electronic access control systems are not present, the door hardware provider shall install the required power supply above the ceiling on the secured side of the door.

C. All 120VAC power for all door operators and locking power supplies shall be provided by the electrical contractor.

2.4 HANGING DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Hinges: ANSI/BHMA A156.1 butt hinges with five knuckles. With the exception of electric through wire hinges, specify non-removeable pins (NRP) for all out-swinging lockable doors.
 - 1. Approved Manufacturers:
 - a. Hager Companies (HA) BB Series, 5 knuckle.
 - b. Ives (IV) 5BB Series, 5 knuckle.
 - c. McKinney (MK) TA/T4A Series, 5 knuckle.
- C. Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 aluminum continuous pin and barrel or geared hinges. Preferred on aluminum doors in aluminum frames.
 - 1. Approved Manufacturers:
 - a. Hager Companies (HA).
 - b. Ives (IV).
 - c. Pemko (PE).
- D. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 - 1. Approved Manufacturers:
 - a. Hager Companies (HA).
 - b. Markar Products (MR).
 - c. Pemko (PE).

2.5 POWER TRANSFER DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Electrified Quick Connect Transfer Hinges: Electrified transfer hinges with MolexTM standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions. Minimum of 8 wires. Wire nut connections are not acceptable
 - 1. Approved Manufacturers:
 - a. McKinney (MK) QC (# wires) Option.
 - b. Hager Companies (HA) ETW-QC (# wires) Option.

- c. Ives (IV) Connect.
- C. Concealed Quick Connect Electric Power Transfers: Used at doors with panic hardware. Concealed transfers to have MolexTM _standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions. Minimum of 8 wires. Wire nut connections are not acceptable.
 - 1. Approved Manufacturers:
 - a. Architectural Builders Hardware (AH) PT1000-EZ Series.
 - b. Pemko (PE) EL-CEPT Series.
 - c. Securitron (SU) EL-CEPT Series.
 - d. Von Duprin (VD) EPT-10 Series.
- D. Electric Door Wire Harnesses: Electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Minimum of 8 wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
 - 1. Approved Manufacturers:
 - a. McKinney (MK) QC-C Series
 - b. Hager Companies (HA) Quick Connect.
 - c. Von Duprin (VD) Connect.
- 2.6 DOOR OPERATING TRIM
 - A. Include in Allowance for Owner-preferred hardware per Section 012100.
 - B. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
 - 1. Approved Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Trimco (TC).
 - C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units.
 - 1. Approved Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Trimco (TC).

2.7 CYLINDERS

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. No interchangeable cylinders (LFIC or SFIC) permitted. All new construction shall use the following manufacturers. Cylinders used on renovation projects may vary from the preferred alternates and shall be coordinated with the County.
 - 1. Approved Manufacturers:
 - a. Accentra, formally known as Yale (AC). [Preferred Alternate]
 - 1) Used for interior doors.
 - 2) Used for exterior doors.
 - a. Medeco (MC) Bilevel. [Preferred Alternate]
 - 1) Used for exterior building entry doors.
 - 2) Used for high security interior doors.
 - b. The contractor shall coordinate keying specific information with the Owner prior to ordering cylinders.

2.8 MECHANICAL LOCKING DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1. At single occupancy toilet rooms, nursing rooms and other occupant sensitive rooms specify mechanical occupancy status indicators. Indicators shall have highly reflective color and wording for "locked/unlocked" or "vacant/occupied". Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status. Indicator window

to be curved design allowing a 180-degree viewing angle with protective covering to prevent tampering. Occupancy indicator on both sides of the door is preferred.

- 1. Approved Manufacturers:
 - a. Accentra, formally known as Yale (AC) 8800FL Series. [Preferred Alternate]
 - b. Sargent Manufacturing (SA) 8200 Series. [Preferred Alternate]
 - c. Corbin Russwin Hardware (RU) ML2000 Series.
 - d. Schlage (SC) L9000 Series.

2.9 ELECTROMECHANICAL LOCKING DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Electromechanical Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed, subject to same compliance standards and requirements as mechanical mortise locksets. Request to exit (REX) switch to be integrated in the lockset.
 - 1. Approved Manufacturers:
 - a. Accentra, formally known as Yale (AC) 8800FL Series. [Preferred Alternate]
 - b. Sargent Manufacturing (SA) 8200 Series. [Preferred Alternate]
 - c. Corbin Russwin Hardware (RU) ML20900 Series.
 - d. Schlage (SC) L9000 EL/EU/RX Series.

2.10 STAND ALONE ACCESS CONTROL LOCKING DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Stand Alone Locksets: ANSI A156.2, Series 4000, Grade 1 locking mechanism complete with integrated keypad for access and programming.
 - 1. Approved Manufacturers:
 - a. Accentra, formally known as Yale (AC) nexTouch Series. [Preferred Alternate]
 - b. Sargent Manufacturing (SA) KP Series. [Preferred Alternate]
 - c. Corbin Russwin Hardware (RU) 800 Series.
 - d. Schlage (SC) CO 200 Series.

2.11 AUXILIARY LOCKS

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Mortise Deadlocks, Small Case: ANSI/BHMA A156.36, Grade 1, small case mortise type deadlocks constructed of heavy gauge wrought corrosion resistant steel. Steel or stainless steel bolts with a 1" throw and hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other specified locksets.

- 1. Approved Manufacturers:
 - a. Accentra, formally known as Yale (AC)- 350 Series. [Preferred Alternate]
 - b. Sargent Manufacturing (SA) 4870 Series. [Preferred Alternate]
 - c. Corbin Russwin Hardware (RU) DL4000 Series.
 - d. Schlage (SC) L460 Series.

2.12 CONVENTIONAL EXIT DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 panic and fire exit hardware devices. Exit devices and latch to be stainless steel.
 - 1. Approved Manufacturers:
 - a. Sargent Manufacturing (SA) 80 Series. [Preferred Alternate]
 - b. Von Duprin (VD) 99 Series
 - c. Accentra, formally known as Yale (AC)- 7000 Series.
- C. Extruded Aluminum Removable Mullions: ANSI/BHMA A156.3 anodized, removable mullions with malleable-iron top and bottom retainers and keyed removable option. Mullions to be provided standard with stabilizers and imbedded weatherstrip. Mullions are preferred at pairs of doors with exit devices.
 - 1. Approved Manufacturers:
 - a. Same as exit device manufacturer.
- C. Steel Removable Mullions: ANSI/BHMA A156.3 steel removable mullions with keyed removable option. Mullions are preferred at pairs of doors with exit devices.
 - 1. Approved Manufacturers:
 - a. Same as exit device manufacturer.
- D. All conventional exit devices shall be RIM style.

2.13 ELECTROMECHANICAL CONVENTIONAL EXIT DEVICES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Electromechanical Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 fire exit hardware devices subject to same compliance standards and requirements as mechanical exit devices. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable. Request to exit (REX) switch to be integrated in the exit device.
 - 1. Approved Manufacturers:

- a. Sargent Manufacturing (SA) 80 Series. [Preferred Alternate]
- b. Accentra, formally known as Yale (AC) 7000 Series.
- c. Detex (DE) Advantex. [delayed egress devices only]
- d. Von Duprin (VD) 35A/98 XP Series.
- B. Electromechanical Delayed Egress Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 fire exit hardware devices subject to same compliance standards and requirements as mechanical exit devices. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is acceptable. Request to exit (REX) switch to be integrated in the exit device.
 - 1. Approved Manufacturers:
 - a. Von Duprin (VD) 35A/98 XP Series. [Preferred Alternate]
 - b. Sargent Manufacturing (SA) 80 Series. [Preferred Alternate]
 - c. Detex (DE) Advantex.

2.14 DOOR CLOSERS

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
 - 1. Approved Manufacturers:
 - a. 1. LCN Closers (LC) 4040XP Series. [Preferred Alternate]
 - b. Norton Rixson (NO) 7500 Series. [Preferred Alternate]
 - c. Sargent Manufacturing (SA) 351 Series.

2.15 AUTOMATIC DOOR OPERATORS

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Conforming to ANSI/BHMA A156.19. Power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.
 - 1. Approved Manufacturers:
 - a. Besam Automated Entrance Systems (BE) SW200i Series.
 - b. Ditec Entrematic (DI) HA-8 Series (1/4 HP Motor).
 - c. Horton Automatics (HO) 4100 Series.

- d. LCN Closers (LC) 9500 Series.
- e. Norton Rixson (NO) 6000 Series.
- f. Stanley (SL) M-Force Series.

2.16 ARCHITECTURAL TRIM

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Door Protective Trim ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following. Stainless Steel: 300 grade, 050-inch thick. Brass or Bronze: 050-inch thick.
 - 1. Approved Manufacturers:
 - a. Hager Companies (HA).
 - b. Rockwood (RO).
 - c. Trimco (TC).

2.17 DOOR STOPS

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Door Stops and Bumpers ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Wall stops preferred. Floor stops to be used only when necessary; insure they are not a trip hazard. Where floor or wall bumpers are not appropriate, specify overhead type stops and holders.
 - 1. Approved Manufacturers:
 - a. Hager Companies (HA).
 - b. Rockwood (RO).
 - c. Trimco (TC).

2.18 ARCHITECTURAL SEALS

A. A.Include in Allowance for Owner-preferred hardware per Section 012100.

General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
- D. Replaceable Seal Strips: Specify only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
 - 1. Approved Manufacturers:
 - a. Pemko (PE).
 - b. Reese Enterprises, Inc. (RE).
 - c. Zero (ZE).

d. National Guard Products (NG).

2.19 FINISHES

- A. Include in Allowance for Owner-preferred hardware per Section 012100.
- B. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.
 - 1. Wood Doors: DHI's "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
- C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as directed by Owner.
 - 2. Furnish permanent cores to Owner for installation.
- E. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 07 92 00 "Joint Sealants."
- F. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
- G. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - 1. Do not notch perimeter gasketing to install other surface-applied hardware.
- H. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

- I. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- J. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
- K. Installed hardware shall be protected and stored on construction the site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install all hardware at the latest possible time frame.
- L. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.
- M. Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
- N. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

3.2 ADJUSTING

A. Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.3 DOOR HARDWARE SCHEDULE

A. HARDWARE SETS TO BE CONFIRMED WITH WAKE COUNTY AFTER BIDDING.

END OF SECTION 08 71 00

SECTION 077100 - ROOF SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Manufactured units for the following applications:
 - 1. Rainchains.
 - 2. Modification to existing gutter systems.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review special roof details, roof drainage, and condition of other construction that will affect roof specialties.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of roof specialty.
 - 1. Include construction details, material descriptions, dimensions, and finishes.
- B. Samples: For rain chains in color and texture specified.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not store rain chains in contact with other materials that might cause staining, denting, or other surface damage. Store roof specialties away from uncured concrete and masonry.
- B. Protect strippable protective covering on rain chains from exposure to sunlight and high humidity, except to extent necessary for the period of roof-specialty installation.

1.5 FIELD CONDITIONS

A. Field Measurements: Verify required length of rain chains by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.6 COORDINATION

A. Confirm and coordinate compatibility of existing gutter and new rain chain materials.

ROOF SPECIALTIES 077100 - 1

PART 2 - PRODUCTS

2.1 RAIN CHAINS

- A. Supply Rain Chains where indicated int he Drawings from one of the following manufacturers:
 - 1. Nutshell Stores.
 - 2. Seo Rain Chain.
 - 3. Monarch Abode.
 - 4. Rain Chains Direct.
 - 5. Stanwood Imports.
- B. Rain Chain style to be selected by Owner and Architect from Manufacturer's full range.
- C. Material: Copper.
- D. Hanging Type: In-gutter bar.
- E. Base Connection: Attach to large stone or CMU block buried in gravel rain catchment pit.

2.2 EXISTING GUTTERS

- A. Remove existing downsposut and close downspout holes.
- B. Create new holes in two rain chain locations indicated in the Drawings.

2.3 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM/NOMMA AMP 500, "Metal Finishes Manual for Architectural and Metal Products," for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.
- B. Verify that substrate is sound, dry, smooth, clean, sloped for drainage where applicable, and securely anchored.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

ROOF SPECIALTIES 077100 - 2

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- A. Remove temporary protective coverings and strippable films as roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain roof specialties in a clean condition during construction.
- B. Replace roof specialties that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures, as determined by Architect.

END OF SECTION 077100

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