ADDENDUM NO. 1
For
City of Greenville (City)
Greenville Town Common & Esplanade Project
February 28, 2025

GENERAL:

1. This Addendum shall supplement, amend, and become a part of the Bid Documents. All Bids and the Construction Contract shall be based on these modifications.

2. Bidders shall acknowledge the receipt of this Addendum on their Form of Proposal.

SPECIFICATIONS:

The following revisions shall be noted by each Bidder in the appropriate specification section of the Bid Documents and made a part thereof:

1. Specification Section 00 01 15 "List of Drawings": Replace with the attached revised list of drawings which includes updated sheet index.

2. Specification Section 03 30 00 "Cast-in-Place Concrete": Modify table in Paragraph 2.2.A with the addition of exposure class W1.

3. Agreement Between Owner and Contractor For Construction Contract: Modify Paragraph 4.04.1 and 4.04.2 where [Number] is shown and replace with 1000.

4. Section B – Form of Proposal: Replace with the attached revised Form of Proposal which includes proper space for bidders to write down amounts.

DRAWINGS:

The following revisions shall be noted by each Bidder on the appropriate drawing of the Bid Documents and made a part thereof.

1. Complete Drawing Set: Replace the previous drawing set with the attached drawing set. Changes include:
    i. Addition of bulkhead ladders on ST101-ST104 sheets
    ii. Revised Pile Schedule
    iii. Movement of Light Post P35 on E-104
    iv. Added a Di-7 and grate note on CG-103

v. Adjusted east end of vehicle path to allow for emergency vehicles to turn.

END OF ADDENDUM NO. 1

ATTACHMENTS:

- Revised Specification Section 00 01 15 “List of Drawings”
- Revised Form of Proposal
- Revised IFB Drawing Set

SECTION 00 01 15 – LIST OF DRAWINGS

PART 1 - GENERAL

1.1 SUMMARY OF WORK

A. This Section consists of a listing of Construction Drawings and other related reference drawings and technical information as applicable for the **Greenville Town Common & Esplanade Project** project at the City of Greenville (City) Town Common.

1.2 CONSTRUCTION DRAWINGS

A. Engineering Construction Drawings consisting of **Sheets 1 through 118** specifically prepared for the project entitled **Greenville Town Common & Esplanade Project** are as follows:

General		
1	G-001	Cover Sheet
2	G-002	Index of Drawings
3	G-003	Appendix B – Building Code Summary
4	G-004	General Notes, Abbreviations & Legends
5	G-101	Key Plan
Survey		
6	V-001	Survey Notes & Abbreviations
7	V-101	Existing Site Plan Sheet 1 of 4
8	V-102	Existing Site Plan Sheet 2 of 4
9	V-103	Existing Site Plan Sheet 3 of 4
10	V-104	Existing Site Plan Sheet 4 of 4
Geotechnical		
11	B-101	Boring Location Site Plan
12	B-102	Soil Zone Site Plan
13	B-601	Boring Log Plan Sheet 1 of 2
14	B-602	Boring Log Plan Sheet 2 of 2
Demolition		
15	D-101	Demolition Plan Sheet 1 of 4
16	D-102	Demolition Plan Sheet 2 of 4
17	D-103	Demolition Plan Sheet 3 of 4
18	D-104	Demolition Plan Sheet 4 of 4
19	D-301	Demolition Section Sheet 1 of 3
20	D-302	Demolition Section Sheet 2 of 3

21	D-303	Demolition Section Sheet 3 of 3
22	D-401	Enlarged Demolition Plan
23	D-501	Demolition Details
24	D-901	Demolition Photographs
Civil – General		
25	C-001	Site Plan Notes
26	C-102	Overall Site Plan
Erosion and Sediment Control		
27	CE101	Preliminary Erosion Control Plan
28	CE102	Post-Erosion Control Plan
29	CE301	Erosion Control Details
30	CE302	Turbidity Curtain Detail
31	CE303	Ground Stabilization and Materials Handling
32	CE304	Self-Inspection, Record Keeping and Reporting Notes
Civil – Grading		
33	CG100	Overall Grading & Drainage Plan
34	CG101	Grading & Drainage Plan (West)
34A	CG101A	Grading & Drainage Plan (West) – Alternate A
35	CG102	Grading & Drainage Plan (Center-West)
36	CG103	Grading & Drainage Plan (Center-East)
37	CG104	Grading & Drainage Plan (East)
38	CG301	Site Sections
39	CG302	Site Sections
40	CG303	Site Sections
41	CG401	Grading & Drainage Plan Enlargements
42	CG402	Grading & Drainage Plan Enlargements
43	CG501	Grading Details
Civil – Materials		
44	CS101	Materials & Layout Plan (West)
44A	CS101A	Materials & Layout Plan (West) – Alternate A
45	CS102	Materials & Layout Plan (Center-West)
46	CS103	Materials & Layout Plan (Center-East)
47	CS104	Materials & Layout Plan (East)
48	CS401	Site Plan Enlargement
49	CS402	Site Plan Enlargement

50	CS501	Site Details
51	CS502	Site Details
52	CS503	Site Details
53	CS504	Site Details
54	CS505	Paving Pattern (West)
55	CS506	Paving Pattern (East)
Civil – Utility		
56	CU101	Overall Utility Plan
57	CU501	Utility Details
Landscaping		
58	CL100	Overall Planting Plan
59	CL101	Planting Plan (West)
59A	CL101A	Planting Plan (West) Additive Bid #2
60	CL102	Planting Plan (Center-West)
61	CL103	Planting Plan (Center-East)
62	CL104	Planting Plan (East)
63	CL501	Planting Details, Notes, and Schedule
63A	CL501a	Planting Details, Notes, and Schedule Additive Bid #2
Structural		
64	S-001	Structural Notes
65	SB101	Pile Plan Sheet 1 of 4 Base Bid
65A	SB101A	Pile Plan Sheet 1 of 4 Additive Bid #3
66	SB102	Pile Plan Sheet 2 of 4 Base Bid
67	SB103	Pile Plan Sheet 3 of 4 Base Bid
68	SB104	Pile Plan Sheet 4 of 4 Base Bid
69	ST101	Deck Plan Sheet 1 of 4 Base Bid
69A	ST101A	Deck Plan Sheet 1 of 4 Additive Bid #3
70	ST102	Deck Plan Sheet 2 of 4 Base Bid
71	ST103	Deck Plan Sheet 3 of 4 Base Bid
72	ST104	Deck Plan Sheet 4 of 4 Base Bid
73	S-301	Typical Section 1 of 6
74	S-302	Typical Section 2 of 6
75	S-303	Typical Section 3 of 6
76	S-304	Typical Section 4 of 6
77	S-305	Typical Section 5 of 6

78	S-305	Typical Section 6 of 6
79	S-401	Enlarged Bulkhead Connections
80	S-402	Boardwalk Enlarged Pile Plan Sheet 1 of 2
81	S-403	Boardwalk Enlarged Pile Plan Sheet 2 of 2
82	S-404	Boardwalk Enlarged Framing Plan Sheet 1 of 2
83	S-405	Boardwalk Enlarged Framing Plan Sheet 2 of 2
84	S-406	Boardwalk Enlarged Deck Plan Sheet 1 of 2
85	S-407	Boardwalk Enlarged Deck Plan Sheet 2 of 2
86	S-408	Bulkhead Retaining Wall Details
87	S-409	Floating Dock Enlarged Plan Additive Bid #1
88	S-410	Timber Bridge Enlarged Plan & Elevation Additive Bid #3
89	S-411	Overlook Enlarged Plan & Elevation Additive Bid #3
90	S-501	Timber Walkway Details 1 of 5
91	S-502	Timber Walkway Details 2 of 5
92	S-503	Timber Walkway Details 3 of 5
93	S-504	Timber Walkway Details 4 of 5
94	S-505	Timber Walkway Details 5 of 5
95	S-506	Drain Pipe Extension Details
96	S-507	Soil Anchor Details
97	S-508	Retaining Wall Details
98	S-509	Concrete Details
99	S-510	Miscellaneous Details
100	S-511	Stiff Arm Details Additive Bid #1
101	S-512	Floating Dock Detail Additive Bid #1
102	S-513	Debris Deflector Detail Additive Bid #1
103	S-514	Gangway Details Additive Bid #1
104	S-601	Soil Anchor Schedule
105	S-602	Pile Schedule
Electrical		
106	E-001	Electrical Notes, Legend & Abbreviations
107	E-101	Electrical Plan 1 of 4 Base Bid
107A	E-101A	Electrical Plan 1 of 4 Additive Bid #2
107B	E-101B	Electrical Plan 1 of 4 Additive Bid #3
108	E-102	Electrical Plan 2 of 4
109	E-103	Electrical Plan 3 of 4

110	E-104	Electrical Plan 4 of 4
111	E-501	Electrical Details 1 of 2 Base Bid
112	E-502	Electrical Details 2 of 2 Base Bid
112A	E-502A	Electrical Details 2 of 2 Additive Bid #2
112B	E-502B	Electrical Details 2 of 2 Additive Bid #3
113	E-601	Single Line Diagrams & Schedules
114	E-602	Electrical Schedules
Reference		
115	SU1	Location Survey
116	SU2	Location Survey
117	SU3	Topographic Survey
118	SU4	Topographic Survey

1.3 REFERENCE INFORMATION

A. Record Drawings: Information used in developing the Engineering Construction Drawings for this project was obtained from the following Reference Drawing that were made available to the Designer by the Owner. The listing of Reference Drawings is provided for Contractor's information only and is intended to illustrate where details of the existing structure construction were derived. The existing Reference Drawings are the property of the City and shall not be used for any purpose other than that intended by the Contract. Reference drawings are provided as an Appendix "A" to the specifications.

Shore Drive Project Details for Retaining Wall, Esplanade, Etc.
Sheets 2, 9, 11
Rivers and Associates, Inc.
As-Built Drawings Dated August 11, 1967

B. Project Subsurface Investigation: A geotechnical investigation completed as a part of this project was performed by the following. The Geotechnical Engineer of Record (GEOR) is Andrew J Gliniak (North Carolina License No. 042183). The geotechnical "Report of Subsurface Investigation" can be found in Appendix "B" of these Specifications. Soil boring information is provided for Contractor's information only. The City makes no representations about subsurface conditions that may be encountered within the limits of the project. Soil borings represent subsurface information only at the location of the boring and is not intended to be considered typical beyond the limits of the boring. The Contractor should anticipate variability in the subsurface conditions and allow for variation in the bid preparation.

Town Common Civic Center and Bulkhead Geotechnical Engineer Report
Sheets 1 through 50
Terracon Consultants, Inc.

Report Dated February 11, 2022

Town Common Park Bulkhead and Esplanade Geotechnical Engineer Report
Sheets 1 through 25
Terracon Consultants, Inc.
Report Dated May 16, 2024

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION 00 01 15

(USE THIS FORM ONLY)

SUBMIT PROPOSALS IN CARE OF:
Project Management Department
City of Greenville
2000 Cedar Lane
Greenville, NC 27858
(252) 329-4242

BIDDER'S FIRM NAME_____

DATE:_____

PROPOSAL: **Town Common Bulkhead and Esplanade Project**
The Undersigned, as Bidder, hereby declares that only person or persons interested in this proposal as principals or principals is or are named herein and that no other persons than herein mentioned has any interest in this proposal or in the contract to be entered, that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respect fair and in good faith without collusion or fraud.

The bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the specifications for the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids, that he has satisfied himself relative to the work to be performed.

Materials to be furnished shall be in compliance with standard specifications and special provisions. CONTRACTOR'S responsibility shall continue uninterrupted until expiration of the warranty period as stated in the specifications after completion of the work. The owner (City of Greenville) reserves the right to select any or all of the alternates and to increase or decrease the total contract amount utilizing the unit prices supplied by the CONTRACTOR in the bid form.

The Bidder agrees, if his proposal is accepted, to contract with the City of Greenville, 200 West Fifth Street, Greenville, NC 27858, in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and labor necessary to complete within the time allotted as specified, the General Construction work on the Owner's property, in complete accordance with the Plans, Specifications, and Contract Documents bearing the title **Town Common Bulkhead and Esplanade Project**, with a definite understanding that no money will be allowed for extra work except as set forth in the Contract Documents for the sums as follows:

Base Bid:

($_____)_____dollars

ADDENDA

The following addenda are acknowledged as having been received and noted, the provisions for which are included in the proposal(s). Failure to acknowledge receipt of any addenda will subject the bidder to disqualification. CONTRACTOR to sign.

Addendum No. 1:_____

Addendum No. 2:_____

Addendum No. 3:_____

Addendum No. 4:_____

ALTERNATES

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" the base bid.

Alternate No. 1 (Floating Dock & Debris Deflector): _____

Alternate No. 2 (Nature Walk): _____

Alternate No. 3 (Timber Bridge & Overlook Platform): _____

Alternate No. 4 (Decorative Fountain, $200,000 Design and Construction Allowance): _____

UNIT PRICES

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work all in accordance with the contract documents.

GENERAL CONTRACT:

No. 1 (General Conditions)_____

No. 2 (Concrete Demolition)_____

No. 3 (Steel Sheet Pile Demolition)_____

No. 4 (Fill Removal, Storage, & Grading)_____

No. 5 (Steel Pipe Pile Installation)_____

No. 6 (CIP Concrete Cap Construction)_____

No. 7 (CIP Concrete Retaining Wall Construction)_____

No. 8 (Steel Sheet Pile Construction)_____

No. 9 (Soil Anchor Construction)_____

No. 10 (Timber Boardwalk Construction)_____

No. 11 (Select Fill, Geotextile, and Grading)_____

REQUIRED FORMS

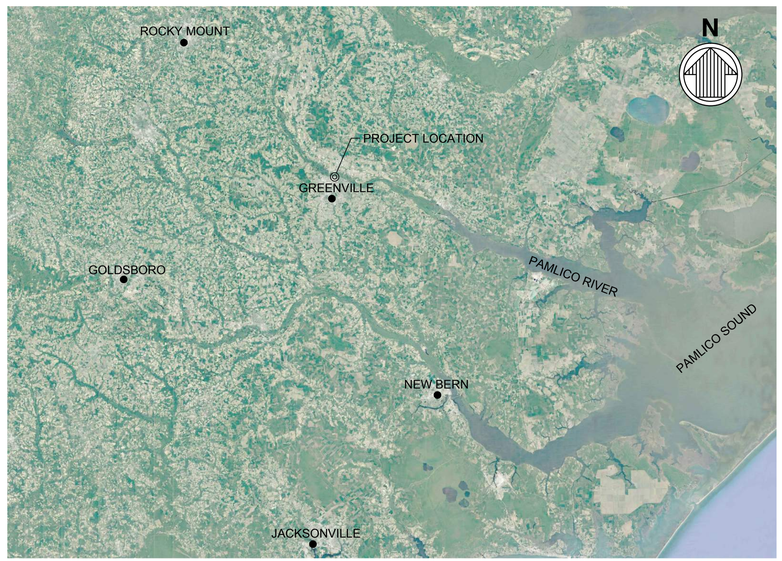
The following forms have been completed by the CONTRACTOR and are attached hereto. CONTRACTOR to sign.

MBE / WBE Form(s):

Refer to the Instructions section found on page 3 of the MBE / WBE Forms in the Project Manual.

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GREENVILLE TOWN COMMON
BULKHEAD & ESPLANADE PROJECT
GREENVILLE, NC



VICINITY MAP
SCALE: NTS



LOCATION PLAN
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

COVER SHEET

Rev: 1
Date: 2025-02-07
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: J. SWYERS
Drawn by: VNM
Chkd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO, MOFFATT & NICHOL
Plotted: 2/27/2025 4:49 PM by FORD, BRIAN
Saved: 2/7/2025 3:18 PM by NMORGAN
File: C:\R\A221315-02\20 CADD_Active_Greenville Town Commons\221315023-001.rvt

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering Surveying Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 037776 ENGINEER JEFFREY SWYERS 2/28/2025
SEAL

SEAL

Sheet Reference No.
G-001
INDEX: 1 OF 114

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INDEX OF DRAWINGS		
INDEX NO.	SHEET NO.	SHEET TITLE
	GENERAL	
1	G-001	COVER SHEET
2	G-002	INDEX OF DRAWINGS
3	G-003	APPENDIX B - BUILDING CODE SUMMARY
4	G-004	GENERAL NOTES, ABBREVIATIONS & LEGEND
5	G-101	KEY PLAN
	SURVEY	
6	V-001	SURVEY NOTES & ABBREVIATIONS
7	V-101	EXISTING SITE PLAN SHEET 1 OF 4
8	V-102	EXISTING SITE PLAN SHEET 2 OF 4
9	V-103	EXISTING SITE PLAN SHEET 3 OF 4
10	V-104	EXISTING SITE PLAN SHEET 4 OF 4
	GEOTECHNICAL	
11	B-101	BORING LOCATION SITE PLAN
12	B-102	SOIL ZONE SITE PLAN
13	B-601	BORING LOGS SHEET 1 OF 2
14	B-602	BORING LOGS SHEET 2 OF 2
	DEMOLITION	
15	D-101	DEMOLITION PLAN SHEET 1 OF 4
16	D-102	DEMOLITION PLAN SHEET 2 OF 4
17	D-103	DEMOLITION PLAN SHEET 3 OF 4
18	D-104	DEMOLITION PLAN SHEET 4 OF 4
19	D-301	DEMOLITION SECTION SHEET 1 OF 3
20	D-302	DEMOLITION SECTION SHEET 2 OF 3
21	D-303	DEMOLITION SECTION SHEET 3 OF 3
22	D-401	ENLARGED DEMOLITION PLAN
23	D-501	DEMOLITION DETAILS
24	D-901	DEMOLITION PHOTOGRAPHS
	CIVIL	
25	C-001	SITE PLAN NOTES
26	C-102	OVERALL SITE PLAN
27	CE101	PRELIMINARY EROSION CONTROL PLAN
28	CE102	POST EROSION CONTROL PLAN
29	CE301	EROSION CONTROL DETAILS
30	CE302	TURBIDITY CURTAIN NOTES & DETAILS
31	CE303	GROUND STABILIZATION AND MATERIALS HANDLING
32	CE304	SELF-INSPECTION, RECORDKEEPING AND REPORTING NOTES
33	CG100	OVERALL GRADING DRAINAGE PLAN
34	CG101	GRADING & DRAINAGE PLAN (WEST)
34A	CG101A	GRADING & DRAINAGE PLAN (WEST) ALTERNATE A
35	CG102	GRADING & DRAINAGE PLAN(CENTER-WEST)
36	CG103	GRADING & DRAINAGE PLAN (CENTER-EAST)
37	CG104	GRADING& DRAINAGE PLAN (EAST)
38	CG301	SITE SECTIONS
39	CG302	SITE SECTIONS
40	CG303	SITE SECTIONS
41	CG401	GRADING & DRAINAGE PLAN ENLARGEMENTS
42	CG402	GRADING & DRAINAGE PLAN ENLARGEMENTS
43	CG501	GRADING DETAILS
44	CS101	MATERIALS & LAYOUT PLAN (WEST)
44A	CS101A	MATERIALS & SITE PLAN (WEST) ALTERNATE A
45	CS102	MATERIALS & LAYOUT PLAN (CENTER-WEST)
46	CS103	MATERIALS & LAYOUT PLAN (CENTER-EAST)
47	CS104	MATERIALS & LAYOUT PLAN (EAST)
48	CS401	SITE PLAN ENLARGEMENTS
49	CS402	SITE PLAN ENLARGEMENTS
50	CS501	SITE DETAILS
51	CS502	SITE DETAILS
52	CS503	SITE DETALS
53	CS504	SITE DETAILS
54	CS505	PAVING PATTERN (WEST)
55	CS506	PAVING PATTERN (EAST)
56	CU101	OVERALL UTILITY PLAN
57	CU501	UTILITY DETAILS
	LANDSCAPING	
58	CL100	OVERALL PLANTING PLAN
59	CL101	PLANTING PLAN (WEST)
59A	CL101A	PLANTING PLAN (WEST)
60	CL102	PLANTING PLAN (CENTER-WEST)
61	CL103	PLANTING PLAN (CENTER-EAST)
62	CL104	PLANTING PLAN (EAST)
63	CL501	PLANTING DETAILS, NOTES, & SCHEDULE
63A	CL501A	PLANTING DETAILS, NOTES, & SCHEDULE

INDEX OF DRAWINGS		
INDEX NO.	SHEET NO.	SHEET TITLE
	STRUCTURAL	
64	S-001	STRUCTURAL NOTES
65	SB101	PILE PLAN SHEET 1 OF 4 BASE BID
65A	SB101A	PILE PLAN SHEET 1 OF 4 ADDITIVE BID #3
66	SB102	PILE PLAN SHEET 2 OF 4 BASE BID
67	SB103	PILE PLAN SHEET 3 OF 4 BASE BID
68	SB104	PILE PLAN SHEET 4 OF 4 BASE BID
69	ST101	DECK PLAN SHEET 1 OF 4 BASE BID
69A	ST101A	DECK PLAN SHEET 1 OF 4 ADDITIVE BID #3
70	ST102	DECK PLAN SHEET 2 OF 4 BASE BID
71	ST103	DECK PLAN SHEET 3 OF 4 BASE BID
72	ST104	DECK PLAN SHEET 4 OF 4 BASE BID
73	S-301	TYPICAL SECTION SHEET 1 OF 6
74	S-302	TYPICAL SECTION SHEET 2 OF 6
75	S-303	TYPICAL SECTION SHEET 3 OF 6
76	S-304	TYPICAL SECTION SHEET 4 OF 6
77	S-305	TYPICAL SECTION SHEET 5 OF 6
78	S-306	TYPICAL SECTION SHEET 6 OF 6
79	S-401	ENLARGED BULKHEAD CONNECTIONS
80	S-402	BOARDWALK ENLARGED PILE PLAN SHEET 1 OF 2
81	S-403	BOARDWALK ENLARGED PILE PLAN SHEET 2 OF 2
82	S-404	BOARDWALK ENLARGED FRAMING PLAN SHEET 1 OF 2
83	S-405	BOARDWALK ENLARGED FRAMING SHEET PLAN 2 OF 2
84	S-406	BOARDWALK ENLARGED DECK PLAN SHEET 1 OF 2
85	S-407	BOARDWALK ENLARGED DECK PLAN SHEET 1 OF 2
86	S-408	BULKHEAD RETAINING WALL DETAILS
87	S-409	FLOATING DOCK ENLARGED PLAN ADDITIVE BID #1
88	S-410	TIMBER BRIDGE ENLARGED PLAN & ELEVATION ADDITIVE BID #3
89	S-411	OVERLOOK ENLARGED PLAN & ELEVATION ADDITIVE BID #3
90	S-501	TIMBER WALKWAY DETAILS SHEET 1 OF 5
91	S-502	TIMBER WALKWAY DETAILS SHEET 2 OF 5
92	S-503	TIMBER WALKWAY DETAILS SHEET 3 OF 5
93	S-504	TIMBER WALKWAY DETAILS SHEET 4 OF 5
94	S-505	TIMBER WALKWAY DETAILS SHEET 5 OF 5
95	S-506	DRAIN PIPE EXTENSION DETAILS
96	S-507	SOIL ANCHOR DETAILS
97	S-508	RETAINING WALL DETAILS
98	S-509	CONCRETE DETAILS
99	S-510	MISCELLANEOUS DETAILS
100	S-511	STIFF ARM DETAILS ADDITIVE BID #1
101	S-512	FLOATING DOCK DETAIL ADDITIVE BID #1
102	S-513	DEBRIS DEFLECTOR DETAILS ADDITIVE BID #1
103	S-514	GANGWAY DETAILS ADDITIVE BID #1
104	S-601	SOIL ANCHOR SCHEDULE
105	S-602	PILE SCHEDULE
	ELECTRICAL	
106	E-001	ELECTRICAL NOTES, LEGEND & ABBREVIATIONS
107	E-101	ELECTRICAL PLAN 1 OF 4 BASE BID
107A	E-101A	ELECTRICAL PLAN ADDITIVE BID #2
107B	E-101B	ELECTRICAL PLAN ADDITIVE BID #3
108	E-102	ELECTRICAL PLAN 2 OF 4 BASE BID
109	E-103	ELECTRICAL PLAN 3 OF 4 BASE BID
110	E-104	ELECTRICAL PLAN 4 OF 4 BASE BID
111	E-501	ELECTRICAL DETAILS 1 OF 2 BASE BID
112	E-502	ELECTRICAL DETAILS 2 OF 2 BASE BID
112A	E-502A	ELECTRICAL DETAILS 2 OF 2 ADDITIVE BID #2
112B	E-502B	ELECTRICAL DETAILS 2 OF 2 ADDITIVE BID #3
113	E-601	SINGLE LINE DIAGRAMS & SCHEDULES
114	E-602	ELECTRICAL SCHEDULES
	REFERENCE	
	SU1	LOCATION SURVEY
	SU2	LOCATION SURVEY
	SU3	TOPOGRAPHIC SURVEY
	SU4	TOPOGRAPHIC SURVEY

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	MS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

INDEX OF DRAWINGS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO: F-0105

THE EAST GROUP
Engineering | Surveying | Environment | Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC SURVEYING FIRM LICENSE NO. C-427
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
G-002
INDEX: 2 OF 114

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

File: Q:\RA\221315.02\20 CADD_Active_Greenville Town Commons\221315002c-002 - Plotted: 2/27/2025 4:49 PM by FORD, BRIAN - Saved: 2/14/2025 3:41 PM by NMORGAN

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

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: Greenville Town Commons Bulkhead & Esplanade Project
Address: 105 E 1st St, Greenville Zip Code: 27858
Owner/Authorized Agent: Greenville Phone # (252) 329 - 4242 E-Mail rcoltrane@greenvillenc.gov
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City Greenville ☐ County ☐ State
#18 781-4626

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				( )	
Civil	The East Group	Todd Tripp	17480	(252) 758-3746	Todd.Tripp@eastgroup.com
Electrical	Moffatt & Nichol	David Wills	44850	(312) 231-0044	Dwills@moffattnichol.com
Fire Alarm				( )	
Plumbing				( )	
Mechanical				( )	
Sprinkler-Standpipe				( )	
Structural	Moffatt & Nichol	Jeff Swyers	50774	(919) 781-4626	Jswyers@moffattnichol.com
Retaining Walls >5' High	Moffatt & Nichol	Jeff Swyers	50774	(919) 781-4626	Jswyers@moffattnichol.com
Other				( )	

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

2018 NC BUILDING CODE: ☐ New Building ☒ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☒ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 1968 **CURRENT OCCUPANCY(S)** (Ch. 3): A-3
RENOVATED: (date) N/A **PROPOSED OCCUPANCY(S)** (Ch. 3): A-3

RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☐ II ☒ III ☐ IV
Proposed: ☐ I ☐ II ☒ III ☐ IV If For Non Bulkhead Structures

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 **Flood Hazard Area:** ☐ No ☒ Yes
Special Inspections Required: ☐ No ☒ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1st Floor			
2nd Floor			
Mezzanine			
1st Floor			
Basement			
TOTAL			

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonation ☐ 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): _____
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
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.

Actual Area of Occupancy A / *Allowable Area of Occupancy A* + *Actual Area of Occupancy B* / *Allowable Area of Occupancy B* ≤ 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[1,2]	(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] x W/30 = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = Total number of stories in the building x D (maximum3 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	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]			
Building Height in Stories (Table 504.4) [3]			

[1] Provide code reference if the "Shown 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	SHEET # FOR RATED PENETRATION	SHEET # 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							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Parts/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 PROPERTY LINES	DEGREE OF OPENING 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 #: _____

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (Not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
☐ Exit sign locations (1013)
☐ Exit access travel distances (1017)
☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(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
☐ 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

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

USE CLASSIFICATION	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 96" SPACES	132" SPACES	TOTAL # ACCESSIBLE PROVIDED
TOTAL					

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

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: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

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: _____

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

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_E) 1.25 1.0 For Non Bulkhead Structures

Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor 250 psf 100 psf for Boardwalk

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 121 mph (ASCE-7)
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 II For Non Bulkhead Structures
Spectral Response Acceleration S_s 12.3 %g S_1 6.2 %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 ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☒ Wind ☐

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity _____

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: _____

Mechanical Spacing Conditioning System
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: _____

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)
☐ 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

Greenville NORTH CAROLINA

Rev.	Date	Description	By
0	2026-02-07	ISSUED FOR BID	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

APPENDIX B- BUILDING CODE SUMMARY

Designed by: J. SWYERS
Drawn by: VNM
Coord by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot date/time: 2/27/2025 4:49 PM by FORD, BRIAN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO: F-0105

THE EAST GROUP
Engineering Surveying Technology
NC ENGINEERING FIRM LICENSE NO. C-0208
NC SURVEYING FIRM LICENSE NO. C-427
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
WWW.EASTGROUP.NET

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
G-003
INDEX: 3 OF 114

File: Q:\RAL\221315-02\20 CADD_Active_Greenville Town Commons\221315026-003 ; Plotted: 2/27/2025 4:49 PM by FORD, BRIAN ; Saved: 2/7/2025 3:23 PM by NMCRGAN

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

GENERAL NOTES:

1. THE TOPOGRAPHY PRESENTED ON THE SITE PLAN IS BASED ON 2017 SURVEY CONDUCTED BY THE EAST GROUP AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM.
2. THE BATHYMETRY PRESENTED ON THE SITE PLAN IS BASED ON 2022 SURVEY CONDUCTED BY GEODYNAMICS AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM.
3. PLAN COORDINATES AND WORK POINTS ARE BASED ON THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 83 (NAD83).
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. DO NOT SCALE PROJECT DRAWINGS. REPORT ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION OR ADJUSTMENT PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL NOT BEGIN DEMOLITION/CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
5. THE CONTRACTOR SHALL PLACE THE PERMIT PLACARDS ON THE JOB SITE AND SHALL COMPLY WITH ALL TERMS OF THE PERMITS PERTAINING TO THE PERFORMANCE OF THE WORK.
6. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE CONTRACTORS RESPONSIBILITY.
7. THESE PLANS ARE INCOMPLETE WITHOUT THE PROJECT TECHNICAL SPECIFICATIONS. IF THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL ALERT THE OWNER AND ENGINEER. THE TECHNICAL SPECIFICATIONS SHALL TAKE PRECEDENCE.
8. THE EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES, IF UTILITIES OTHER THAN THOSE SHOWN ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND TAKE STEPS TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.
9. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
10. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY DEBRIS RESULTING FROM DEMOLITION/CONSTRUCTION. DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND SHALL BE DISPOSED OF AS SPECIFIED. ALL DEBRIS SHALL BE PROPERLY DISPOSED OF IN A PERMITTED LANDFILL.
11. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIERS (SILTATION CURTAINS AND FLOATING TURBIDITY SCREENS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, AND WATERWAYS, IF IN THE OPINION OF THE CITY AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE BEING TRANSPORTED OFF SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH FROM TRAVEL WAYS TO THE SATISFACTION OF THE CITY.
12. ALL SITE IMPROVEMENTS SHALL BE INSTALLED PER THE CITY OF GREENVILLE AND STATE REGULATIONS.
13. GENERAL NOTES ARE NOT INTENDED TO REPLACE THE CONTRACT DOCUMENTS. SEE CONTRACT DOCUMENTS FOR REQUIREMENTS IN ADDITION TO THESE GENERAL NOTES. THE CONTRACT DOCUMENTS SHALL CONSIST OF THE COMPLETE PROJECT MANUAL (SPECIFICATIONS) AND WORKING DRAWINGS INCLUDING BUT NOT LIMITED TO: ADVERTISEMENT FOR BIDS; NOTICE TO BIDDERS; INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS; SUPPLEMENTARY GENERAL CONDITIONS; TECHNICAL SPECIFICATIONS; AND ANY RELEVANT ADDENDA ITEMS. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS.
14. THE WORKING DRAWINGS ARE NOT NECESSARILY COMPLETE IN EVERY DETAIL. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, SERVICES, LABOR, ETC, FOR A COMPLETE INSTALLATION; INCLUDING WORK REASONABLY INFERRED FROM THE CONTRACT DOCUMENTS AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS, WHETHER SHOWN OR NOT ON THE DRAWINGS.
15. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE THE LIMITS OF THIS PROJECT AS A RESULT OF DEMOLITION/ CONSTRUCTION.
16. ALL AREAS DISTURBED DURING DEMOLITION/CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT NO EXPENSE TO THE OWNER, UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR SHALL PROTECT ADJACENT STRUCTURES, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC FROM POTENTIAL DAMAGE DUE TO CONTRACTOR'S OPERATIONS.
18. ALL BUILDINGS, SURFACE, AND SUBSURFACE IMPROVEMENTS ON AND ADJACENT TO THE PROJECT SITE ARE NOT NECESSARILY SHOWN HEREON.
19. LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. UTILITIES SHOWN ARE LIMITED TO FIELD LOCATION OF VISIBLE APPURTENANCES AND DO NOT NECESSARILY DEPICT ALL UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO BEGINNING WORK. VERIFY DISCREPANCIES WITH THE OWNER'S REPRESENTATIVE.
20. THE OWNER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.

GENERAL NOTES (CONTINUED):

21. THE CONTRACTOR SHALL NOT OVERLOAD THE EXISTING STRUCTURE DURING DEMOLITION/ CONSTRUCTION. OPERATION OF ANY EQUIPMENT OR STORAGE OF MATERIALS WHICH WOULD RESULT IN OVERLOAD WILL NOT BE PERMITTED. CRANE OUTRIGGERS AND OTHER SUCH CONCENTRATED LOADS SHALL BE PROVIDED WITH CRIBBING TO PROPERLY DISTRIBUTE THE LOAD. SAFETY OF PERSONNEL, REQUIRED EQUIPMENT, AND CONDITION AND SUITABILITY OF THE EXISTING STRUCTURE TO SUPPORT MATERIAL AND EQUIPMENT LOADS IS THE CONTRACTOR'S RESPONSIBILITY.
22. CONSTRUCTION LOADS FOR ANY NEW PORTION OF ANY STRUCTURE SHALL NOT BE IMPOSED UNTIL THE CONCRETE CYLINDER STRENGTH FOR THOSE MEMBERS AND CONNECTING POURS HAS REACHED 80% OF THE 28 DAY CONCRETE STRENGTH.
23. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR DEMOLITION AND CONSTRUCTION ACTIVITIES.
24. WHERE PEDESTRIAN AND DRIVER SAFETY IS ENDANGERED IN THE AREA OF DEMOLITION/ CONSTRUCTION WORK, USE TRAFFIC BARRICADES. BARRICADES SHALL BE POSITIONED A MINIMUM OF 5 FEET FROM THE EDGE OF ANY OPENINGS RESULTING FROM DEMOLITION/CONSTRUCTION ACTIVITIES.
25. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT.

PERMITS:

1. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
2. IT IS THE INTENT OF THESE PLANS AND THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE AND GOVERN THEM SELF BY ALL PROVISIONS OF THESE PERMITS.

STAGING:

1. STAGING AREAS SHALL BE MAINTAINED BY THE CONTRACTOR. STAGING AREAS SHALL BE CLEARED OF DEBRIS AND CONTRACTOR INSTALLED AMENITIES AT THE COMPLETION AND ACCEPTANCE OF WORK IN THE AREA. THE CONTRACTOR SHALL RESTORE THE ACCESS AREAS TO THEIR ORIGINAL CONDITION AFTER WORK IN THE AREA IS COMPLETE. THIS WORK INCLUDES REPLACEMENT OF FENCING, SIGNS, VEGETATION, WALKWAYS, PARKING FACILITIES, PAVED AREAS AND OTHER MISCELLANEOUS ITEMS. ALL REPLACEMENT MATERIALS SHALL BE APPROVED BY THE OWNER BEFORE INSTALLATION.
2. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE FOR APPROVAL AT LEAST 30 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR AND ENGINEER MUST HOLD A SEQUENCING MEETING TO REVIEW THE PLAN PRIOR TO CONSTRUCTION.

DATUM:

1. ALL ELEVATIONS SHOWN ON DRAWINGS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. FLOOD ELEVATIONS ARE BASED ON USGS TAR RIVER STATION ID 02084000 AND FEMA FIRM PANEL 4688K. THE WATER LEVEL DATA FOR THE FACILITY IS LISTED BELOW:

	NAVD 88
FEMA 100 YEAR FLOOD	22.90 FT
FEMA 500 YEAR FLOOD	25.80 FT
FLOOD STAGE	9.46 FT
NORMAL POOL	1.00 FT

ABBREVIATIONS:

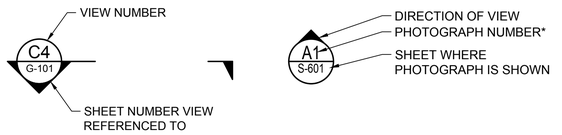
AC	ACREAGE
ACI	AMERICAN CONCRETE INSTITUTE
AEC	AREA OF ENVIRONMENTAL CONCERN
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPR.	APPROVER
APPROX	APPROXIMATE
ASTM	ASTM INTERNATIONAL
AVE	AVENUE
CIP	CAST-IN-PLACE
CIR	CIRCLE
CKD	CHECKED
CONC	CONCRETE
CONT	CONTINUED
CL	CENTERLINE
DACS	DRAWING AREA COORDINATE SYSTEM
DBL	DOUBLE
DIA	DIAMETER
DR	DRIVE
DWGS	DRAWINGS
DWN	DRAWN
E	EAST OR EASTING
EA	EACH
EL/ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EXIST. /EX.	EXISTING
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FT	FEET
GA	GAGE
GALV	GALVANIZED
HORIZ	HORIZONTAL
KSI	KILOPOUNDS PER SQUARE INCH
LB	POUND
LF	LINEAR FEET
MAX	MAXIMUM
MILS	ONE THOUSANDTH OF AN INCH
MIN	MINIMUM
N	NORTH OR NORTHING
NC	NORTH CAROLINA
NAD 83	NORTH AMERICAN DATUM OF 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NCDEQ	NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
PL	PLATE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PTI	POST TENSION INSTITUTE
REQD	REQUIRED
RD	ROAD
S	SOUTH
SP	SOUTHERN PINE
SPA	SPACES/SPACING
SPP	STEEL PIPE PILE
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
SSP	STEEL SHEET PILE
ST	STREET
STA	STATION
SY	SQUARE YARDS
THK	THICK
TOC	TOP OF CURB
TYP	TYPICAL
UHMW-PE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
USGS	UNITED STATES GEOLOGICAL SOCIETY
WP	WORK POINT
W/	WITH
YD	YARD
"	SECONDS OR INCH
'	MINUTES OR FEET
&	AND
Ø	DIAMETER
°	DEGREE
±	PLUS OR MINUS

LEGEND:



VIEW TITLE

DETAIL CALLOUT



SECTION CALLOUT

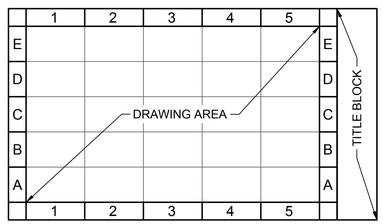
PHOTOGRAPH INDICATOR



KEYED NOTE

DETAIL CALLOUT WITH LEADERS

* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM;
"VIEW NO./SHEET NO." (EG A1/S-501)



DRAWING AREA COORDINATE SYSTEM (DACS)

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2026-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

GENERAL NOTES, ABBREVIATIONS & LEGEND

Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0266
NC SURVEYING FIRM LICENSE NO. C-427
NC LANDSCAPE FIRM LICENSE NO. C-427
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

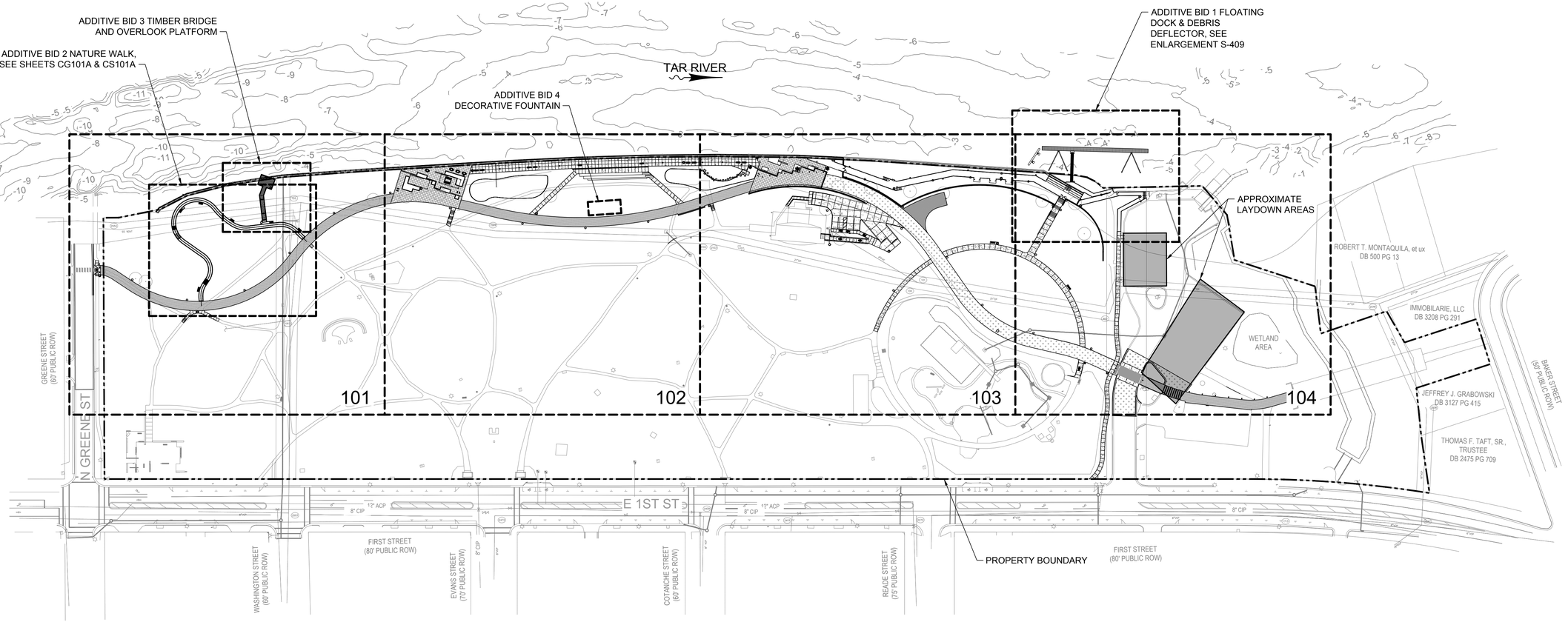
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Sheet Reference No.
G-004
INDEX: 4 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



N

80' 0' 80' 160'

SCALE: 1"=80'

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ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

KEY PLAN

Designed by: J. SWYERS
Drawn by: VNM
Reviewed by: D. JACOBSON
Submitted by: MARK MAP
Date: 2025-02-07
Rev.: 1
M&N Project No.: 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
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NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC SURVEYING FIRM LICENSE NO. C-427
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY S. SWEET 2/28/2025

SEAL

SEAL

Sheet Reference No.
G-101
INDEX: 5 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

SURVEY NOTES:

1. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES.
2. NO TITLE OPINION OR COMMITMENT WAS PROVIDED TO THE EAST GROUP BY THE OWNER OR ANY AGENT OF THE OWNER AT THE TIME OF THIS SURVEY.
3. THIS PROPERTY IS SUBJECT TO THE TAR/PAMLICO RIVER RIPARIAN BUFFER RULES.
4. THE SURVEYOR MADE NO ATTEMPT TO LOCATE OR DELINEATE ANY WETLANDS LOCATED ON THE SUBJECT PROPERTY.
5. THE SURVEYOR MAKES NO GUARANTEE THAT THERE ARE NO OTHER EASEMENTS THAT MAY BENEFIT OR BURDEN THE SUBJECT PROPERTY.
6. THIS PROPERTY IS LOCATED IN ZONE X AND AE AND IS PARTIALLY LOCATED IN A SPECIAL FLOOD HAZARD AREA AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K; BASE FLOOD ELEVATION (BFE) NOTED HEREON.
7. REFERENCE IS HEREBY MADE TO A SURVEY MAP OF THE NORTHEAST ADJACENT PROPERTY BY RIVERS AND ASSOCIATES DATED JUNE 19, 1978 TITLED "PROPERTY OF ROBERT T. MONTAQUILA, ETC".
8. UNDERGROUND UTILITIES TAKEN FROM INFORMATION PROVIDED BY GREENVILLE UTILITIES COMMISSION AND ABOVE GROUND EVIDENCE.
9. THIS SURVEY UPDATE DOES NOT INCLUDE IMPROVEMENTS FOR THE PROPERTY INSTALLED AFTER THE JUNE 2017 REVISION.

ABBREVIATIONS:

ECM	EXISTING CONCRETE MONUMENT
EIP	EXISTING IRON PIPE
EIS	EXISTING IRON STAKE
ERRS	EXISTING RAIL ROAD SPIKE
ACP	ASBESTOS CONCRETE PIPE
AL	AREA LIGHT
ASW	ASPHALT SIDEWALK
BMT	BONDED MULCH TRAIL
BNCH	BENCH
BT	BIRCH TREE
CB	CATCH BASIN
CI	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CMB	CREPE MYRTLE BUSH
CSW	CONCRETE SIDEWALK
CYP	CYPRESS TREET
DI	DROP INLET
EB	ELECTRIC BOX
EMH	ELECTRIC MANHOLE
ET	ELM TREE
EWF	ENGINEERED WOOD FIBER
FH	FIRE HYDRANT
FOC	FIBER OPTIC POST/SIGN
GW	GUY WIRE
JB	JUNCTION BOX
MAG	MAGNOLIA TREE
MH	MANHOLE
M/S	MISTER/SPRINKLER
MT	MAPLE TREE
OT	OAK TREE
PCT	PECAN TREE
PIP	POURED IN PLACE
PP	POWER POLE
PT	PINE TREE
RB	REDBUD
RCP	REINFORCED CONCRETE PIPE
SYC	SYCAMORE TREE
ST	SYNTHETIC TURF
TB	TELEPHONE BOX
TSB	TRAFFIC SIGNAL BOX
VCP	VITRIFIED CLAY PIPE
WAX	WAX MYRTLE TREE
WRF	WIRE FENCE
WT	WILLOW TREE
WV	WATER VALVE

LEGEND:

——\/——	NOT TO SCALE
o	NO POINT SET
—— E ——	OVERHEAD ELECTRIC
—— SS ——	SEWER LINE
—— SD ——	STORM DRAIN
—— UC ——	UNDERGROUND CABLE
—— UGT ——	UNDERGROUND TELECOMMUNICATIONS
—— UE ——	UNDERGROUND ELECTRIC
—— UG ——	UNDERGROUND GAS
—— W ——	WATER LINE

EXISTING STORM DRAINAGE SCHEDULE:

113	CB HOOD = 22.47 INV = 19.17	593	CB HOOD = 24.76 INV = 18.76	1300	DI TOP = 16.11 THROAT INLET = 15.19 INV = 6.49
127	CB HOOD = 5.82 INV = 2.47	781	DI TOP = 16.35 THROAT INLET = 15.36 N INV = 9.16 SW INV = 11.72	1304	DI TOP = 16.8 ± THROAT INLET = 15.97 INV = 13.12
142	DI TOP = 20.48 INV = 17.05	797	DI TOP = 16.8± THROAT INLET = 15.26 INV = 11.58	1684	CB HOOD = 25.12 INV = 21.10
177	CB HOOD = 38.84 INV = 33.94	804	DI TOP = 16.34 THROAT INLET = 15.47 INV IN = 8.27 INV OUT = 11.67	1685	CB HOOD = 25.12 INV = 21.10
239	CB HOOD = 13.04 INV = 9.29	899	DI TOP = 22.27 THROAT INLET =21.07 INV = 17.46	1716	JB TOP = 27.47 NE INV = 19.62 W INV = 23.09
243	CB HOOD = 10.85 INV = 8.25	904	DI TOP = 24.77 THROAT INLET = 23.79 INV = 19.79	1728	CB HOOD = 38.71 INV = 34.76
592	CB HOOD = 24.70 INV = 19.35	934	DI TOP = 18.67 INV = 14.22	1763	CB HOOD = 38.88 INV = 33.28

1823	CB HOOD = 42.94 INV = 39.84	2158	CB HOOD = 45.08 INV = 39.68	2295	CB HOOD = 49.32 INV = 45.47
1850	CB HOOD = 44.59 INV = 37.44	2178	CB HOOD = 50.59 INV = 46.00	2355	CB HOOD = 48.69 INV = 41.06
1917	DI TOP = 26.9 ± THROAT INLET = 26.21 INV = 17.71	2179	CB HOOD = 50.94 INV = 46.81	2410	JB HOOD = 49.09 NE INV = 41.09 NW INV = 42.89
2108	CB HOOD = 34.79 INV = 31.03	2194	JB TOP = 49.42 INV = 44.42	2412	JB HOOD = 48.78 INV = 40.54
2109	CB HOOD = 34.88 INV = 31.33	2261	CB HOOD = 45.19 INV = 42.27	2492	CB HOOD = 45.13 INV = 39.71
2113	CB HOOD = 37.04 INV = 33.44	2270	JB TOP = 45.18 S INV = 41.58 INV = 39.33	2501	JB TOP = 45.06 INV = 38.78
2137	CB HOOD = 42.64 INV = 39.54	2279	CB HOOD = 45.21 INV = 42.29		

EXISTING SANITARY SEWER SCHEDULE:

100	SSMH TOP = 24.06 BOTTOM = 12.31 (APPEARS TO BE ABANDONED)	1713	SSMH TOP = 28.02 INV =	2415	SSMH TOP = 47.41 INV =
101	SSMH TOP = 23.48 NW SERV. = 15.38 INV = 7.63	1912	SSMH TOP = 28.99 N/S INV = 20.74 W INV = 23.19	2472	SSMH TOP = 50.71 INV =
446	SSMH TOP = 17.14 INV = 7.54	2102	SSMH TOP = 22.76 INV = 8.31	2503	SSMH TOP = 45.24 INV =
463	SSMH TOP = 20.74 INV = 7.54	2103	SSMH TOP = 22.76 INV = 8.06	2506	SSMH TOP = 16.50 INV = 7.10
755	SSMH TOP = 17.08 INV INACCESSIBLE	2272	SSMH TOP = 44.94 INV =	2546	SSMH TOP = 26.46 INV = 7.11
1599	SSMH TOP = 21.68 INV =8.43	2409	SSMH TOP = 49.12 INV =	2554	SSMH TOP = 17.22 INV = 9.02

2546	SSMH TOP = 26.46 INV = 7.11	2547	SSMH TOP = 26.93 INV =
2554	SSMH TOP = 17.22 INV = 9.02		

PROPERTY LINE TABLE:

LINE TABLE		
LINE	LENGTH	BEARING
L2	45.41	N74°17'15"E
L3	45.55	S87°56'58"E
L4	49.77	S74°14'12"E
L5	16.93	S68°11'05"E
L6	16.45	S52°08'02"E
L7	13.38	S37°02'13"E

SEE SU1 THRU SU4
FOR SEALED SURVEY

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SURVEY NOTES & ABBREVIATIONS

Rev.: 1
Date: 2025-02-07
MAN Project No.: 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: J. SWYERS
Drwn by: VNM
Ckd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering Surveying Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427

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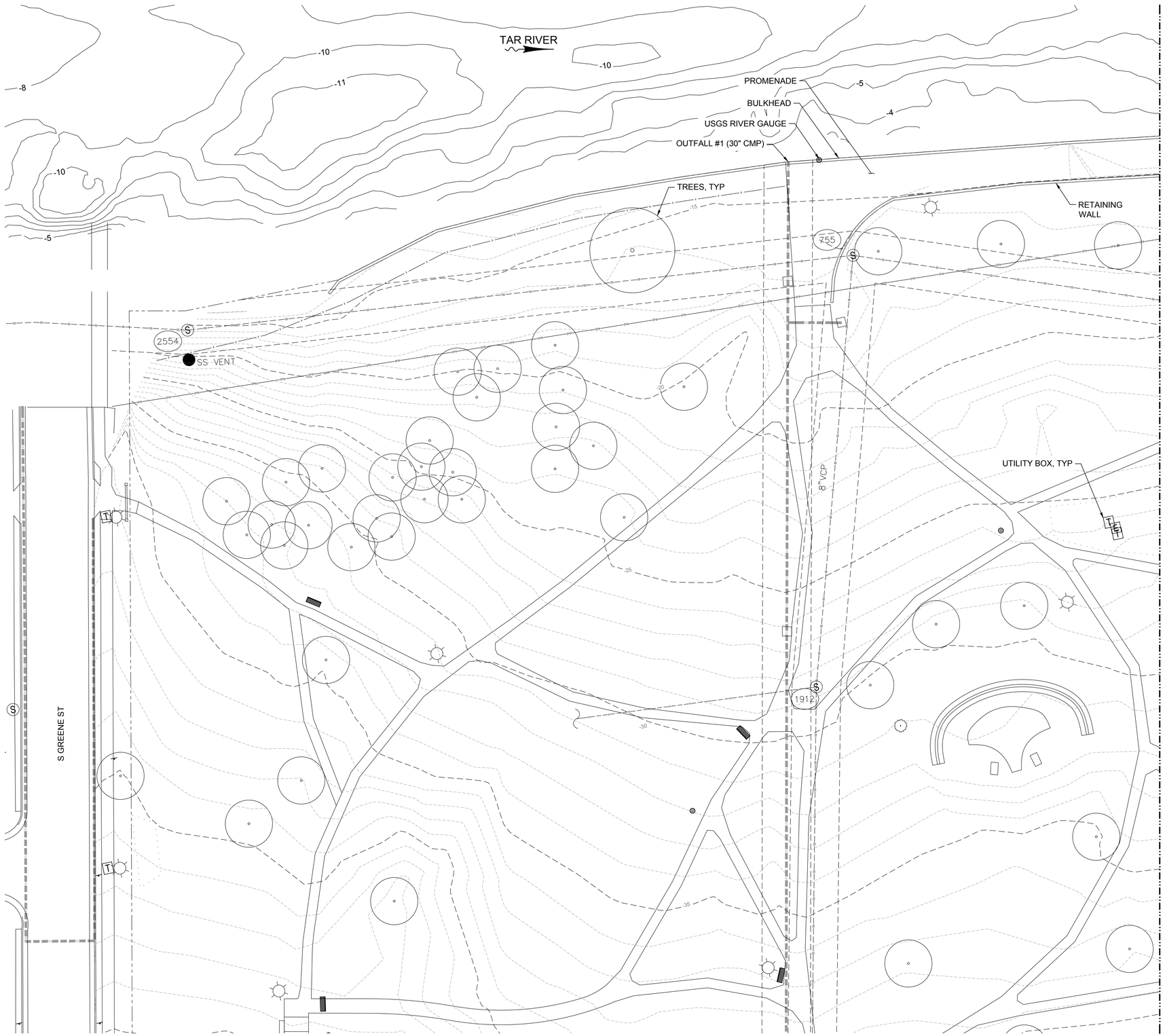
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Sheet Reference No.
V-001
INDEX: 6 OF 114

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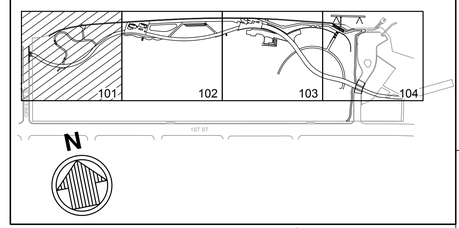
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NOTES:

1. TOPOGRAPHY SURVEY WAS CONDUCTED BY THE EAST GROUP ON MARCH 2017 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM, SEE SHEETS SU1 THRU SU4.
2. BATHYMETRIC SURVEY WAS CONDUCTED BY GEODYNAMICS, LLC IN NOVEMBER & DECEMBER 2022 AND JANUARY 2023 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM.
3. SEE SHEET V-001 FOR SURVEY NOTES AND LEGEND.

KEY PLAN





20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 1 OF 4

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev: 1
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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4700 FALLS OF NEUSE RD, SUITE 300
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NC FIRM LICENSE NO. F-0105

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324 EVANS ST
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC SURVEYING FIRM LICENSE NO. C-3457
NC LANDSCAPE FIRM LICENSE NO. C-427

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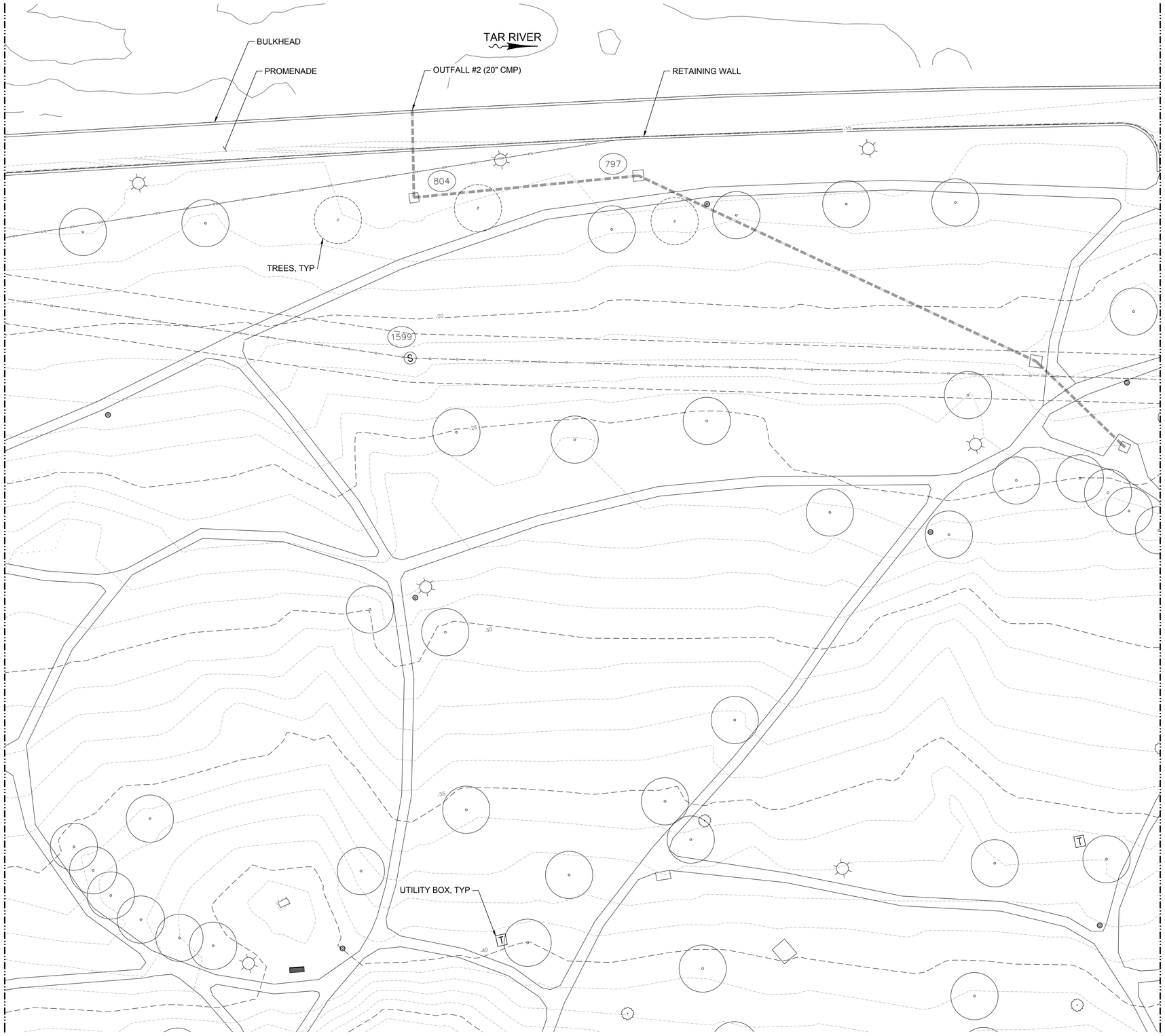
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Sheet Reference No.
V-101
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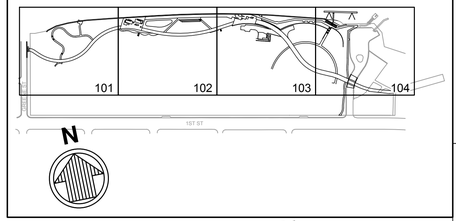
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1. TOPOGRAPHY SURVEY WAS CONDUCTED BY THE EAST GROUP ON MARCH 2017 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM, SEE SHEETS SU1 THRU SU4.
2. BATHYMETRIC SURVEY WAS CONDUCTED BY GEODYNAMICS, LLC IN NOVEMBER & DECEMBER 2022 AND JANUARY 2023 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM.
3. SEE SHEET V-001 FOR SURVEY NOTES AND LEGEND.

KEY PLAN





20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 2 OF 4

Designed by: J. SWYERS
Drawn by: VNM
Reviewed by: D. JACOBSON
Submitted by: MARK PIRILLO, MOFFATT & NICHOL
Rev.: 1
Date: 2025-02-07
Project No.: 221315-02
Text by: MAP
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering Surveying Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

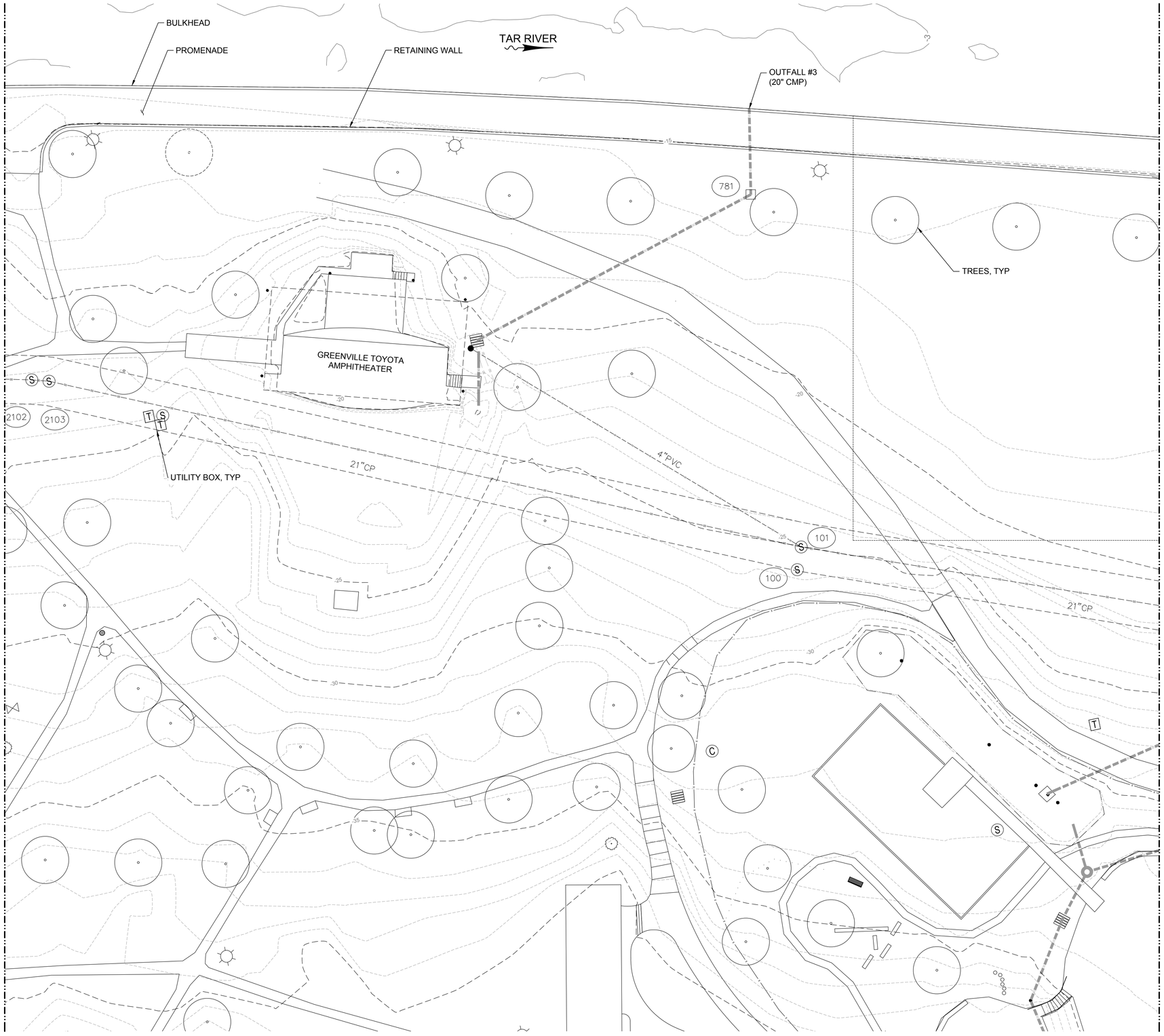
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Sheet Reference No.
V-102
INDEX: 8 OF 114

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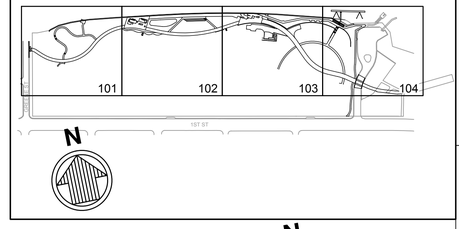
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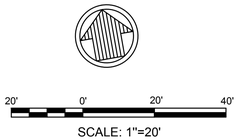


NOTES:

1. TOPOGRAPHY SURVEY WAS CONDUCTED BY THE EAST GROUP ON MARCH 2017 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM, SEE SHEETS SU1 THRU SU4.
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3. SEE SHEET V-001 FOR SURVEY NOTES AND LEGEND.

KEY PLAN





SCALE: 1"=20'

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ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 3 OF 4

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO MOFFATT & NICHOL

Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO: F-0105

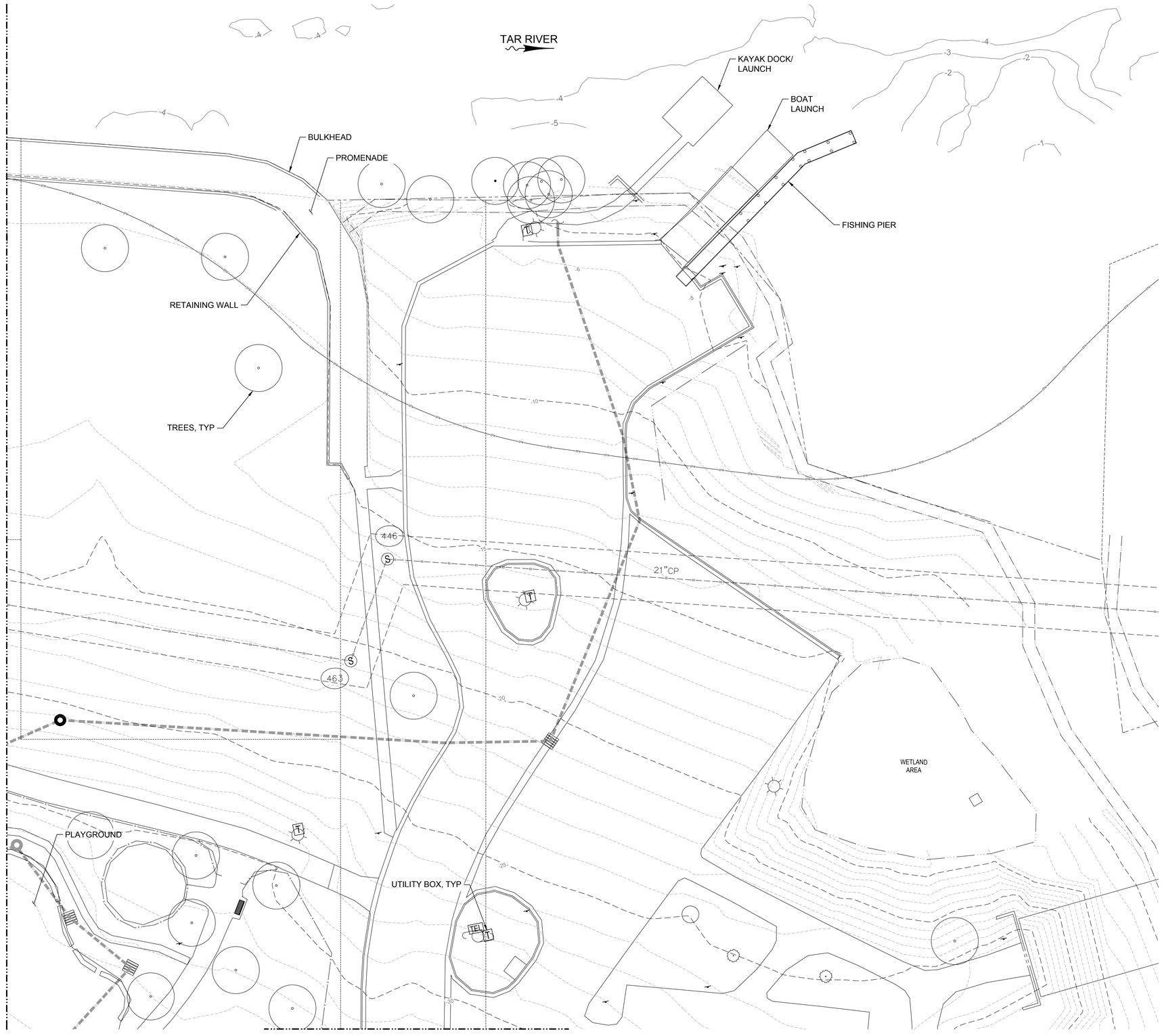
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

SEAL

Sheet Reference No.
V-103
INDEX: 9 OF 114

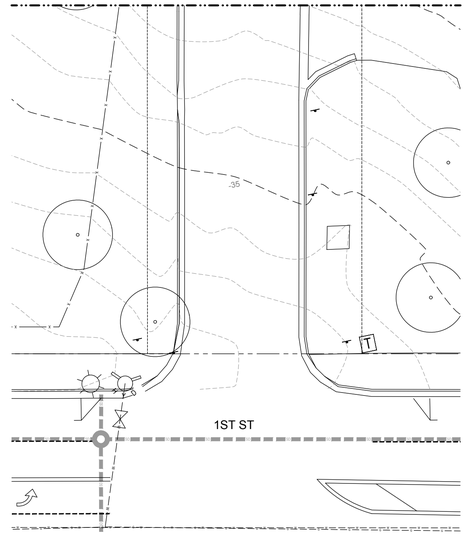
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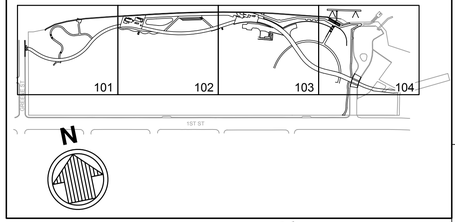
NOTES:

1. TOPOGRAPHY SURVEY WAS CONDUCTED BY THE EAST GROUP ON MARCH 2017 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM, SEE SHEETS SU1 THRU SU4.
2. BATHYMETRIC SURVEY WAS CONDUCTED BY GEODYNAMICS, LLC IN NOVEMBER & DECEMBER 2022 AND JANUARY 2023 AND CAN ONLY BE CONSIDERED AS REPRESENTATIVE OF CONDITIONS AT THAT TIME. SURVEY VERTICAL REFERENCE NAVD88 DATUM.
3. SEE SHEET V-001 FOR SURVEY NOTES AND LEGEND.

MATCH LINE - A-A



KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 4 OF 4

Date: 2025-02-07 | Rev.: 1
MAN Project No.: 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

Designed by: J. SWYERS
Drawn by: VNM
Chk'd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering | Surveying | Information Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

SEAL

Sheet Reference No.
V-104
INDEX: 10 OF 114

File: Q:\RAL\221315-02\20 CADD_Active_Greenville Town Commons\221315V2-104 - Plotted: 2/27/2025 4:50 PM by FORD, BRIAN - Saved: 2/10/2025 12:35 PM by NMORGAN

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



NOTES:

1. TERRACON CONDUCTED THE GEOTECHNICAL ENGINEERING REPORT "TOWN COMMONS CIVIC CENTER AND BULKHEAD GREENVILLE, PITT COUNTY, NORTH CAROLINA" DATED FEBRUARY 11, 2022.
2. IMAGERY FROM NEARMAP.COM. DATED SEPTEMBER 2, 2022.

LEGEND:

B-# SOIL BORING

N

60' 0' 60' 120'

SCALE: 1"=60'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BORING LOCATION SITE PLAN

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Date: 2025-02-07
Rev.: 1
M&N Project No.: 221315.02
Drawing code:
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO, MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering Surveying Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC SURVEYING FIRM LICENSE NO. C-1977
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

SEAL

Sheet Reference No.
B-101
INDEX: 11 OF 114

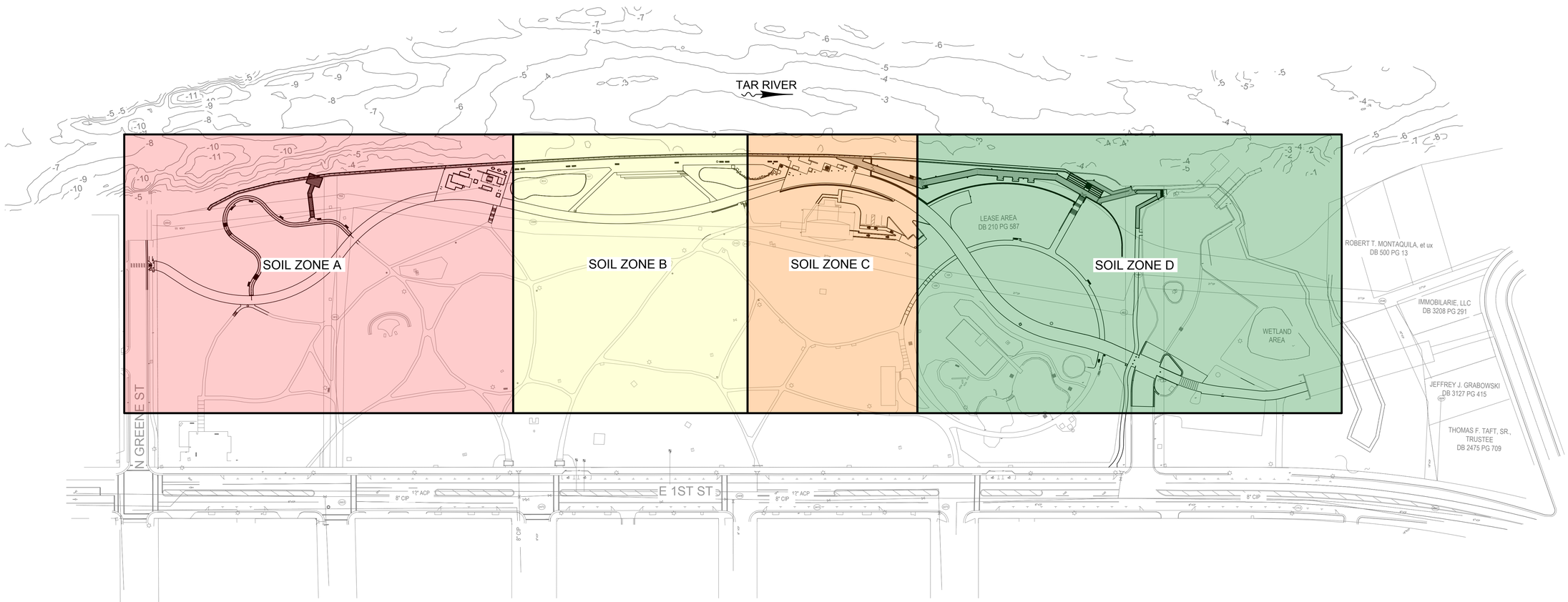
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

NOTES:

1. PRELIMINARY VALUES ARE BASED ON TERRACON GEOTECHNICAL ENGINEERING REPORT FOR THE TOWN COMMON PARK - BULKHEAD AND ESPLANADE PROJECT. PROJECT No. 72245005 TERRACON REPORT DATED MAY 16, 2024.
2. SOIL ZONES ARE PRELIMINARY FOR PLANNING PURPOSES AND VARIATIONS BETWEEN ZONES, INCLUDING TRANSITIONS, SHOULD BE CONSIDERED.



PRELIMINARY GROUTED ANCHOR ULTIMATE BOND STRESS VALUES PER SOIL ZONE

SOIL ZONE A - GROUTED ANCHOR ULTIMATE BOND STRESS

TOP ELEVATION (NAVD88)	BOTTOM ELEVATION (NAVD88)	ULTIMATE BOND STRESS (PSI)
18.0	15.0	15
15.0	13.0	5
13.0	0.0	12
0.0	-5.0	10
-5.0	-10.0	20
-10.0	-20.0	15
-20.0	-25.0	59
-25.0	-50.0	12
-50.0	-57.0	20

SOIL ZONE B - GROUTED ANCHOR ULTIMATE BOND STRESS

TOP ELEVATION (NAVD88)	BOTTOM ELEVATION (NAVD88)	ULTIMATE BOND STRESS (PSI)
18.0	5.0	10
5.0	0.0	10
0.0	-10.0	25
-10.0	-25.0	59
-25.0	-50.0	12
-50.0	-57.0	12

SOIL ZONE C - GROUTED ANCHOR ULTIMATE BOND STRESS

TOP ELEVATION (NAVD88)	BOTTOM ELEVATION (NAVD88)	ULTIMATE BOND STRESS (PSI)
18.0	0.0	10
0.0	-10.0	17
-10.0	-25.0	59
-25.0	-30.0	17
-30.0	-50.0	10
-50.0	-57.0	20

SOIL ZONE D - GROUTED ANCHOR ULTIMATE BOND STRESS

TOP ELEVATION (NAVD88)	BOTTOM ELEVATION (NAVD88)	ULTIMATE BOND STRESS (PSI)
18.0	4.0	10
4.0	-1.0	7
-1.0	-6.0	4
-6.0	-16.0	17
-16.0	-36.0	59
-36.0	-56.0	11
-56.0	-58.0	20

LEGEND

- SOIL ZONE A
- SOIL ZONE B
- SOIL ZONE C
- SOIL ZONE D

N

80' 0' 80' 160'

SCALE: 1"=80'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SOIL ZONE SITE PLAN

Rev. 1
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

Designed by: J. SWYERS
Drawn by: VNM
Chk'd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PANCIELLO MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering | Surveying | Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

SEAL

Sheet Reference No.
B-102
INDEX: 12 OF 114

File: Q:\R\A221315-02\20\CADD_Active_Greenville Town Commons\221315025-102 - Plotted: 2/27/2025 4:50 PM by FORD, BRIAN - Saved: 2/14/2025 3:20 PM by MMORGAW

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

BORING LOG NO. B-1

Page 1 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6166° Longitude: -77.3724°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	18.5+/-	1		**TOPSOIL**, 6 inches		4-7-7 N=14			
3.0	16+/-			**FILL - SILTY SAND, CLAYEY SAND**, brown		0-1-2 N=3			
5.0	14+/-			**FILL - LEAN CLAY**, light brown with orange mottle		4-5-2 N=7			
8.0	11+/-			**FILL - SILTY SAND, CLAYEY SAND, LEAN CLAY**, peices of red brick, gravel, and glass, black, brown, and light gray		2-4-3 N=7			
13.0	6+/-			**CLAYEY SAND (SC)**, orangish brown, loose		2-6-3 N=9			
18.0	1+/-	2		**POORLY GRADED SAND WITH SILT (SP-SM)**, brown, loose		2-1-3 N=4			
23.0	-4+/-			**POORLY GRADED SAND (SP)**, brown with orange to grayish brown, loose to medium dense		4-10-11 N=21			
33.0	-14+/-	3		**SILTY SAND (SM)**, gray, very loose		2-3-2 N=5			
38.0	-19+/-	2		**SILTY SAND (SM)**, gray, very dense		5-1-1 N=2			
43.0	-24+/-					50/3"			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-09-2021 | Boring Completed: 12-09-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-1

Page 2 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6166° Longitude: -77.3724°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
45	-26+/-	2		**CLAYEY SAND WITH SHELL FRAGMENTS (SC)**, micaceous, dark gray, loose to medium dense		2-3-5 N=8			
50	-31+/-					3-2-6 N=8	30.2	31-19-12	37
55	-36+/-					3-3-3 N=6			
60	-41+/-					3-4-6 N=10			
65	-46+/-					2-2-4 N=6			
68.0	-49+/-			**SANDY LEAN CLAY (CL)**, micaceous, dark gray, stiff		3-4-6 N=10			
70	-51+/-					2-3-6 N=9			
75	-56+/-			***Boring Terminated at 75 Feet***					

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-09-2021 | Boring Completed: 12-09-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-2

Page 1 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6165° Longitude: -77.3713°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	18.5+/-	1		**TOPSOIL**, 6 inches		2-3-4 N=7			
2.0	16+/-			**FILL - CLAYEY SAND, LEAN CLAY**, brown with trace orange		3-2-3 N=5			
5.0	14+/-			**FILL - POORLY GRADED SAND, LEAN CLAY, CLAYEY SAND**, brown		2-3-6 N=9			
8.0	11+/-			**FILL - LEAN CLAY**, brown with black gravel		5-5-3 N=8			
13.0	6+/-			**FILL - CLAYEY SAND, LEAN CLAY**, brownish gray		0-1-1 N=2			
18.0	1+/-	3		**CLAYEY SAND (SC)**, brownish gray, very loose		6-13-11 N=24			
23.0	-4+/-	2		**POORLY GRADED SAND (SP)**, orangish brown with red to grayish brown, medium dense to very dense		5-8-9 N=17			
33.0	-14+/-			**SILTY SAND (SM)**, gray, very dense		8-18-42 N=60			
43.0	-24+/-					50/4"			
						50/4"			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-08-2021 | Boring Completed: 12-09-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-2

Page 2 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6165° Longitude: -77.3713°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
45	-26+/-	2		**CLAYEY SAND WITH SHELL FRAGMENTS (SC)**, dark gray, loose		3-4-5 N=9			
50	-31+/-					2-2-3 N=5			
55	-36+/-					2-3-5 N=8			
60	-41+/-					2-3-5 N=8			
65	-46+/-					2-4-4 N=8			
68.0	-49+/-			**SANDY LEAN CLAY (CL)**, dark gray, medium stiff		2-3-3 N=6			
70	-51+/-					3-3-4 N=7			
75	-56+/-			***Boring Terminated at 75 Feet***					

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-08-2021 | Boring Completed: 12-09-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-3

Page 1 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6163° Longitude: -77.3700°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	18.5+/-	1		**TOPSOIL**, 6 inches		2-3-5 N=8	18.0		
3.0	16+/-			**FILL - CLAYEY SAND**, trace organics, brown to orangish brown		4-5-4 N=9	19.1		
5.0	14+/-			**FILL - SILTY SAND, LEAN CLAY**, brown with orangish red		2-3-4 N=7	18.7		
8.0	11+/-			**FILL - CLAYEY SAND, LEAN CLAY**, trace organics, red brick peices, dark brownish orange		2-2-3 N=5	20.1		
13.0	6+/-			**CLAYEY SAND (SC)**, gray with orange, loose		0-2-3 N=5	22.6	24-13-11	39
18.0	1+/-	2		**POORLY GRADED SAND (SP)**, clay lense, light brown, medium dense		4-7-9 N=16	20.9		
23.0	-4+/-					4-5-7 N=12	24.7		
28.0	-9+/-			**SILTY SAND (SM)**, dark brown to dark gray, dense to very dense		24-29-45 N=74	27.5		
33.0	-14+/-					50-50-50 N=100	28.8		
43.0	-24+/-					5-18-16 N=34			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-07-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-3

Page 2 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6163° Longitude: -77.3700°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
45	-26+/-	2		**CLAYEY SAND WITH SHELL FRAGMENTS (SC)**, dark gray, loose to medium dense		13-7-8 N=15	32.8		
50	-31+/-					3-3-4 N=7			
55	-36+/-					2-2-4 N=6	32.7		
60	-41+/-					3-3-3 N=6			
65	-46+/-					3-3-3 N=6	31.9		
68.0	-49+/-			**SANDY LEAN CLAY (CL)**, micaceous, trace shell fragments, dark gray, stiff		3-4-6 N=10			
70	-51+/-					4-4-5 N=9	27.9		
75	-56+/-			***Boring Terminated at 75 Feet***					

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-07-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-4

Page 1 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6160° Longitude: -77.3689°
Approximate Surface Elev.: 18 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	17.5+/-	1		**TOPSOIL**, 6 inches		5-8-6 N=12			
2.0	15+/-			**FILL - CLAYEY SAND**, trace organics, brown with orange		4-5-4 N=9			
5.0	13+/-			**FILL - CLAYEY SAND, LEAN CLAY**, orangish brown		3-4-2 N=6			
8.0	10+/-			**FILL - LEAN CLAY, CLAYEY SAND**, gray to brown with orange		3-4-6 N=10			
13.0	5+/-			**FILL - POORLY GRADED SAND, LEAN CLAY**, grayish brown with orange		0-1-3 N=4			
18.0	0+/-	2		**LEAN CLAY (CL)**, gray, soft to medium stiff		2-1-0 N=1			
23.0	-5+/-	3		**SANDY LEAN CLAY (CL)**, light gray to dark brown, very soft		4-8-7 N=15			
28.0	-10+/-	2		**POORLY GRADED SAND (SP)**, noted clay lense, gray, medium dense		2-3-10 N=13			
33.0	-15+/-			**CLAYEY SAND (SC)**, micaceous, dark gray, medium dense		50/4"			
43.0	-25+/-			**SILTY SAND (SM)**, noted clay lense, gray, very dense		40-44-45 N=89			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-06-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-4

Page 2 of 2

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6160° Longitude: -77.3689°
Approximate Surface Elev.: 18 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
45	-27+/-	2		**SILTY SAND (SM)**, noted clay lense, gray, very dense (continued)		50/1"			
48.0	-30+/-			**CLAYEY SAND WITH SHELL FRAGMENTS (SC)**, micaceous, dark gray, dense to loose		39-30-5 N=35			
50	-32+/-					3-4-5 N=9			
55	-37+/-					2-3-5 N=8			
60	-42+/-					2-3-4 N=7			
65	-47+/-					2-3-4 N=7			
73.0	-55+/-			**SANDY LEAN CLAY (CL)**, micaceous, with shell fragments, dark gray, stiff		3-4-6 N=10			
75	-57+/-			***Boring Terminated at 75 Feet***					

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon
314 Beacon Dr
Winterville, NC

Boring Started: 12-06-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BORING LOGS SHEET 1 OF 2

Rev.: 1
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427
Engineering • Surveying • Landscape Architecture • Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746

SEAL

SEAL

Sheet Reference No.
B-601
INDEX: 13 OF 114

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

File: Q:\R4\22\315-02\20 CADD_Active_Greenville Town Commons\221315026-B01 Plotted: 2/27/2025 4:50 PM by FORD, BRIAN Saved: 2/10/2025 12:49 PM by NMCRCAN

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

BORING LOG NO. B-5

Page 1 of 1

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6162° Longitude: -77.3702°
Approximate Surface Elev.: 21 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	LL-PL-PI	PERCENT FINES
0.5	20.5+/-			**TOPSOIL**, 6 inches					
3.0	18+/-	1		**FILL - CLAYEY SAND, LEAN CLAY**, trace gravel, brown with orange		3-4-3 N=7			
5.0	16+/-	1		**FILL - SANDY LEAN CLAY**, trace gravel, brownish gray with orange		2-4-6 N=10			
13.0	8+/-	3		**LEAN CLAY (CL)**, grayish brown, soft to medium stiff		2-2-3 N=5			
						2-1-3 N=4			
18.0	3+/-	3		**SANDY LEAN CLAY (CL)**, brownish gray, very soft		WOH			
23.0	-2+/-	2		**SILTY CLAYEY SAND (SC-SM)**, brownish gray, loose		1-1-3 N=4			
30.0	-9+/-	2		**POORLY GRADED SAND (SP)**, noted clay lense, orangish brown, medium dense		4-7-8 N=15			
				Boring Terminated at 30 Feet		3-11-17 N=28			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
WOH= Weight of Hammer

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon, 314 Beacon Dr Winterville, NC

Boring Started: 12-08-2021 | Boring Completed: 12-08-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-6

Page 1 of 1

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6161° Longitude: -77.3699°
Approximate Surface Elev.: 20 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	LL-PL-PI	PERCENT FINES
0.5	19.5+/-			**TOPSOIL**, 6 inches					
5.0	15+/-	1		**FILL - CLAYEY SAND, LEAN CLAY**, brown		5-8-5 N=13			
8.0	12+/-	1		**FILL - SANDY LEAN CLAY**, brown with orange mottle		3-3-4 N=7			
13.0	7+/-	1		**FILL - CLAYEY SAND, LEAN CLAY**, trace metal and glass, black and gray		1-1-3 N=4			
						4-3-5 N=8			
18.0	2+/-	3		**SILTY SAND (SM)**, dark grayish brown, loose		2-2-2 N=4			
23.0	-3+/-	2		**FAT CLAY (CH)**, noted poorly graded sand lense, light gray, medium stiff to stiff		0-3-5 N=8			
28.0	-8+/-	2		**SILTY SAND (SM)**, clay lense, orangish brown, loose		1-3-4 N=7			
30.0	-10+/-	2		**POORLY GRADED SAND (SP)**, orangish brown, medium dense		2-4-6 N=10			
				Boring Terminated at 30 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon, 314 Beacon Dr Winterville, NC

Boring Started: 12-07-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-7

Page 1 of 1

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6157° Longitude: -77.3693°
Approximate Surface Elev.: 22 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	LL-PL-PI	PERCENT FINES
0.5	21.5+/-			**TOPSOIL**, 6 inches					
2.0	17+/-	1		**FILL - CLAYEY SAND**, brownish gray with orange mottle		2-3-5 N=8			
8.5	14+/-	1		**FILL - POORLY GRADED SAND, CLAYEY SAND, LEAN CLAY**, orange		2-2-4 N=6			
18.0	4+/-	2		**POORLY GRADED SAND (SP)**, noted clay lense, dark brownish orange, loose to medium dense		4-7-8 N=15			
						5-4-4 N=8			
23.0	-1+/-	3		**POORLY GRADED SAND (SP)**, black to orangish brown, very loose		1-3-4 N=7			
30.0	-8+/-	2		**CLAYEY SAND (SC)**, dark brown with trace orange and black, medium dense		2-1-2 N=3			
				Boring Terminated at 30 Feet		2-4-8 N=12			
						5-10-8 N=18			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon, 314 Beacon Dr Winterville, NC

Boring Started: 12-07-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-8

Page 1 of 1

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6150° Longitude: -77.3690°
Approximate Surface Elev.: 26 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	LL-PL-PI	PERCENT FINES
0.5	25.5+/-			**TOPSOIL**, 6 inches					
5.0	21+/-	1		**FILL - SANDY LEAN CLAY**, trace organics, brown with orange and red specks		2-2-3 N=5	24.6		
18.0	8+/-	1		**FILL - CLAYEY SAND, SILTY SAND, SANDY LEAN CLAY**, trace shell, brown with orange and black		2-2-2 N=4	20.4		
13.0	13+/-	3		**POORLY GRADED SAND (SP)**, noted clay lense, dark brown, loose		3-3-2 N=5	20.0		
						1-2-3 N=5	21.0		
18.0	8+/-	2		**CLAYEY SAND (SC)**, orangish brown, loose		3-4-4 N=8	25.0		
28.0	-2+/-	2		**POORLY GRADED SAND WITH CLAY (SP-SC)**, orangish brown, loose to medium dense		3-4-6 N=10	27.7		
30.0	-4+/-	2		**SILTY SAND (SM)**, orangish brown, medium dense		2-3-4 N=7	27.7	28-17-11	9
				Boring Terminated at 30 Feet		2-2-9 N=11	35.3		

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/7/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon, 314 Beacon Dr Winterville, NC

Boring Started: 12-06-2021 | Boring Completed: 12-06-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-9

Page 1 of 1

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6158° Longitude: -77.3691°
Approximate Surface Elev.: 19 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	LL-PL-PI	PERCENT FINES
0.5	18.5+/-			**TOPSOIL**, 6 inches					
3.0	16+/-	1		**FILL - SANDY LEAN CLAY**, brown		5-6-5 N=11			
8.0	11+/-	1		**FILL - SILTY SAND, CLAYEY SAND, LEAN CLAY**, trace gravel, brown with orange and black		1-2-1 N=3			
18.0	1+/-	2		**POORLY GRADED SAND WITH SILT (SP-SM)**, noted clay lense, orangish brown, very loose to loose		0-0-2 N=2			
20.0	-1+/-	3		**POORLY GRADED SAND WITH SILT (SP-SM)**, orangish brown, very loose		2-2-2 N=4	25.9	NP	9
				Boring Terminated at 20 Feet		2-2-3 N=5			
						0-0-3 N=3			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/9/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon, 314 Beacon Dr Winterville, NC

Boring Started: 12-07-2021 | Boring Completed: 12-07-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 72215104 PROPOSED TOWN COM.GPJ TERRACON_DATATEMPLATE.GDT 2/11/22

BORING LOG NO. B-10

Page 1 of 1

PROJECT: Proposed Town Commons Civic Center
CLIENT: The East Group, P.A. Greenville, NC
SITE: First Street Greenville, NC

LOCATION See Exploration Plan
Latitude: 35.6156° Longitude: -77.3689°
Approximate Surface Elev.: 20 (Ft.) +/-

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	DESCRIPTION	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	LL-PL-PI	PERCENT FINES
0.5	19.5+/-			**TOPSOIL**, 6 inches					
4.5	15+/-	1		**FILL - CLAYEY SAND**, brown with orange mottle		4-4-4 N=8			
8.5	12+/-	1		**FILL - POORLY GRADED SAND**, dark red		2-3-4 N=7			
20.0	0+/-	2		**POORLY GRADED SAND (SP)**, orangish brown to brown, loose		5-3-4 N=7			
						1-2-3 N=5			
				Boring Terminated at 20 Feet		1-2-2 N=4			
						1-2-4 N=6			

Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic

Advancement Method: Mud Rotary
Abandonment Method: Boring backfilled with bentonite chips after delayed water levels were measured.
WATER LEVEL OBSERVATIONS
▽ *End of day on 12/7/21*

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevations were interpolated from a topographic site plan.

Notes:

Terracon, 314 Beacon Dr Winterville, NC

Boring Started: 12-06-2021 | Boring Completed: 12-06-2021
Drill Rig: Rig-448/Geoprobe | Driller: Willie Duggins
Project No.: 72215104

ISSUED FOR BID
ISSUED: 2025-02-07
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BORING LOGS SHEET 2 OF 2

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev.: 1
M&N Project No.: 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
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919-781-4626
NC FIRM LICENSE NO. F-0105

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Engineering • Surveying • Innovation • Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

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Sheet Reference No.
B-602
INDEX: 14 OF 114

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NOTES:

1. QUANTITIES SHOWN ARE FOR THIS SHEET ONLY.
2. QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO REMOVAL.
3. REFER TO V-SHEETS FOR SURVEY NOTES.
4. COORDINATE REMOVAL OF MEASUREMENT INSTRUMENTS WITH USGS.
5. INSTALL EROSION CONTROL & TREE PROTECTION DEVICES PRIOR TO COMMENCING DEMOLITION (SEE SHEETS CE101, CE102, & CE301 THRU CE304).

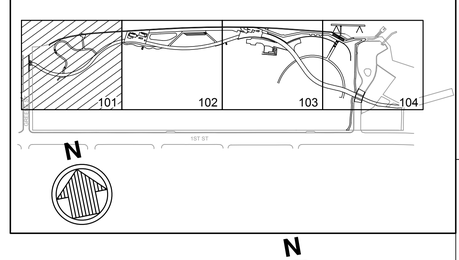
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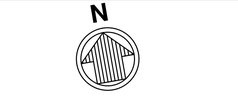
- DEMOLISH & DISPOSE OF OBJECT
- DEMOLISH & DISPOSE OF LIGHTPOLE (SHALL COORDINATE W/ GREENVILLE UTILITY COMMISSION PRIOR TO REMOVAL)
- DEMOLISH & DISPOSE OF CONCRETE SIDEWALK
- PARTIALLY DEMOLISH & DISPOSE OF STEEL BULKHEAD
- DEMOLISH & DISPOSE OF BRICK RETAINING WALL
- GRADING DISTURBANCE AREA (REMOVE EXIST. VEGETATION AS NEEDED)
- X — DEMOLISH CHAIN LINK FENCE
- LOD — LIMITS OF DISTURBANCE
- TPF — TREE PROTECTION FENCE, SEE SHEET CE301
- WORKPOINT

DEMOLITION KEY NOTES:

1. DEMOLISH CONCRETE WALKWAYS, 768 SY
2. PARTIALLY DEMOLISH SHEET PILE BULKHEAD, 355 LF
3. DEMOLISH BRICK RETAINING WALL, 165 LF
4. DEMOLISH TREE, 3 EA
5. EXCAVATION AREA, 36,368 SQ FT
6. TEMPORARILY REMOVE USGS GAUGE & RE-INSTALL, SEE NOTE 4, 1 EA
7. DEMOLISH METAL HANDRAIL WITH CHAIN LINK MESH, 355 LF
8. REMOVE & DISPOSE OF POLE, LUMINAIRE AND FOUNDATION. PULL BACK CONDUCTORS TO NEAREST UPSTREAM DEVICE OUTSIDE DEMO LIMITS. REMOVE CONDUIT BACK TO LIMIT OF DEMOLITION AND CAP, 2 EA
9. REMOVE & DISPOSE OF POLE FOUNDATION, REMOVE & SALVAGE POLE, LUMINAIRE, CONDUIT AND CONDUCTORS FOR REUSE, 1 EA
10. DEMOLISH CHAIN LINK FENCE, 272 LF

KEY PLAN





20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 1 OF 4

Designed by: J. SWYERS
Drawn by: VNM
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO MOFFATT & NICHOL
Date: 2025-02-07
Last by: MAP
Rev: 1
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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NC FIRM LICENSE NO. F-0105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427
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GREENVILLE, NC 27834
252-758-3746

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NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY SWYERS 049779
2/28/2025

SEAL

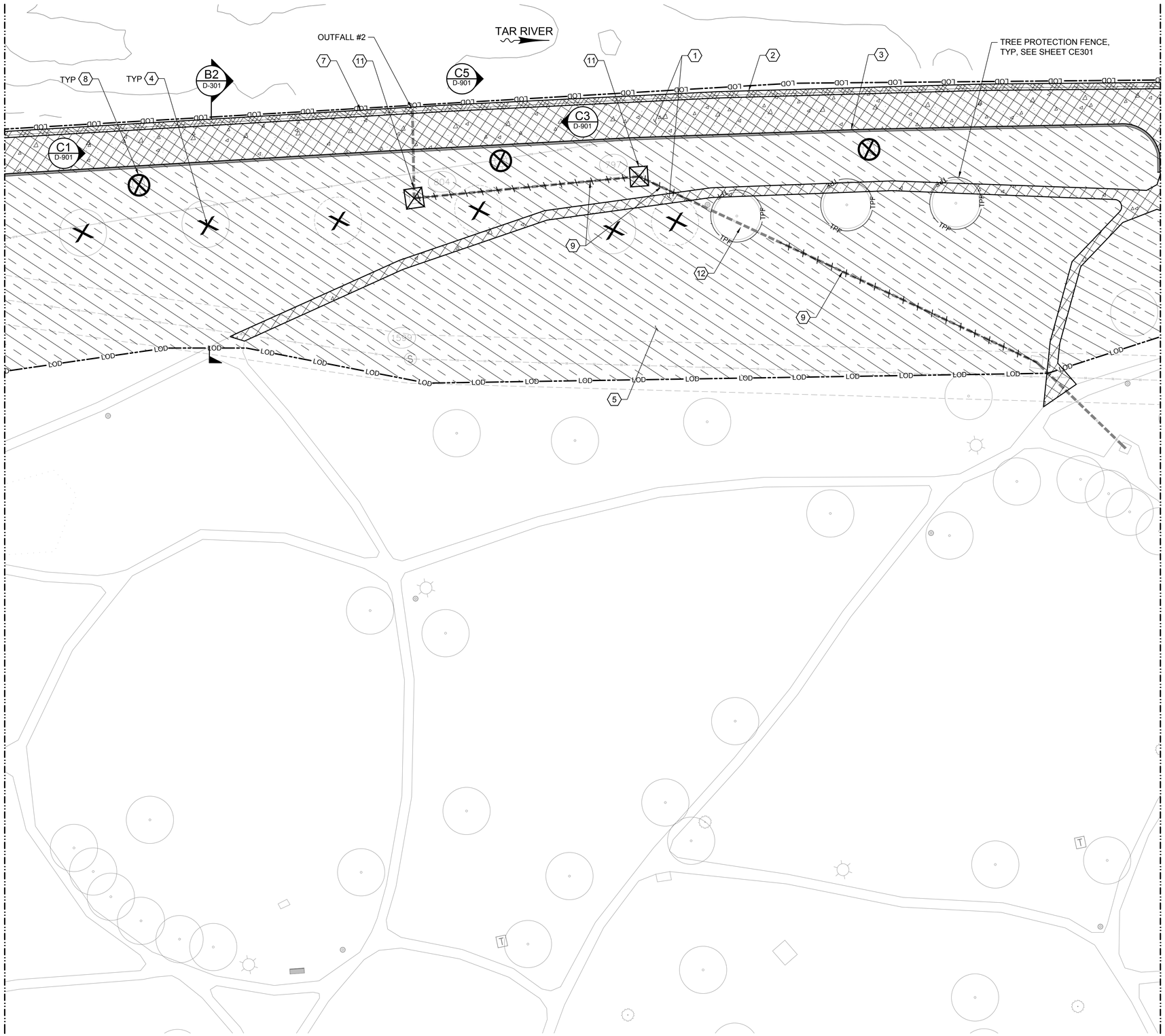
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Sheet Reference No.
D-101
INDEX: 15 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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NOTES:

1. QUANTITIES SHOWN ARE FOR THIS SHEET ONLY.
2. QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO REMOVAL.
3. REFER TO V-SHEETS FOR SURVEY NOTES.
4. INSTALL EROSION CONTROL & TREE PROTECTION DEVICES PRIOR TO COMMENCING DEMOLITION (SEE SHEETS CE101, CE102, & CE301 THRU CE304).

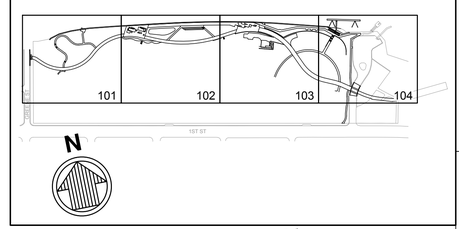
DEMOLITION LEGEND:

- DEMOLISH & DISPOSE OF OBJECT
- DEMOLISH & DISPOSE OF LIGHTPOLE (SHALL COORDINATE W/ GREENVILLE UTILITY COMMISSION PRIOR TO REMOVAL
- DEMOLISH & DISPOSE OF CONCRETE SIDEWALK
- PARTIALLY DEMOLISH & DISPOSE OF STEEL BULKHEAD
- DEMOLISH & DISPOSE OF BRICK RETAINING WALL
- GRADING DISTURBANCE AREA (REMOVE EXIST. VEGETATION AS NEEDED)
- DEMOLISH STORM DRAINAGE PIPE
- LOD — LIMITS OF DISTURBANCE
- TPF — TREE PROTECTION FENCE
- DEMOLISH & DISPOSE OF DROP INLET

DEMOLITION KEY NOTES:

1. DEMOLISH CONCRETE WALKWAYS, 1159 SY
2. PARTIALLY DEMOLISH SHEET PILE BULKHEAD, 477 LF
3. DEMOLISH BRICK RETAINING WALL, 490 LF
4. DEMOLISH TREE, 6 EA
5. EXCAVATION AREA, 41,234 SQFT
7. DEMOLISH METAL HANDRAIL WITH CHAINLINK MESH, 477 LF
8. REMOVE & DISPOSE OF POLE, LUMINAIRE AND FOUNDATION. PULL BACK CONDUCTORS TO NEAREST UPSTREAM DEVICE OUTSIDE DEMO LIMITS. REMOVE CONDUIT BACK TO LIMIT OF DEMOLITION AND CAP, 3 EA
9. DEMOLISH STORM DRAINAGE PIPE, 233 LF
11. DEMOLISH DROP INLET, 2 EA
12. ABANDON PIPE IN PLACE & CLOSE W/ FLOWABLE FILL, 41 LF

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 2 OF 4

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL
Date: 2025-02-07
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering · Surveying · Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER BRANDON REY SWYERS
2/28/2025

SEAL

SEAL

Sheet Reference No.

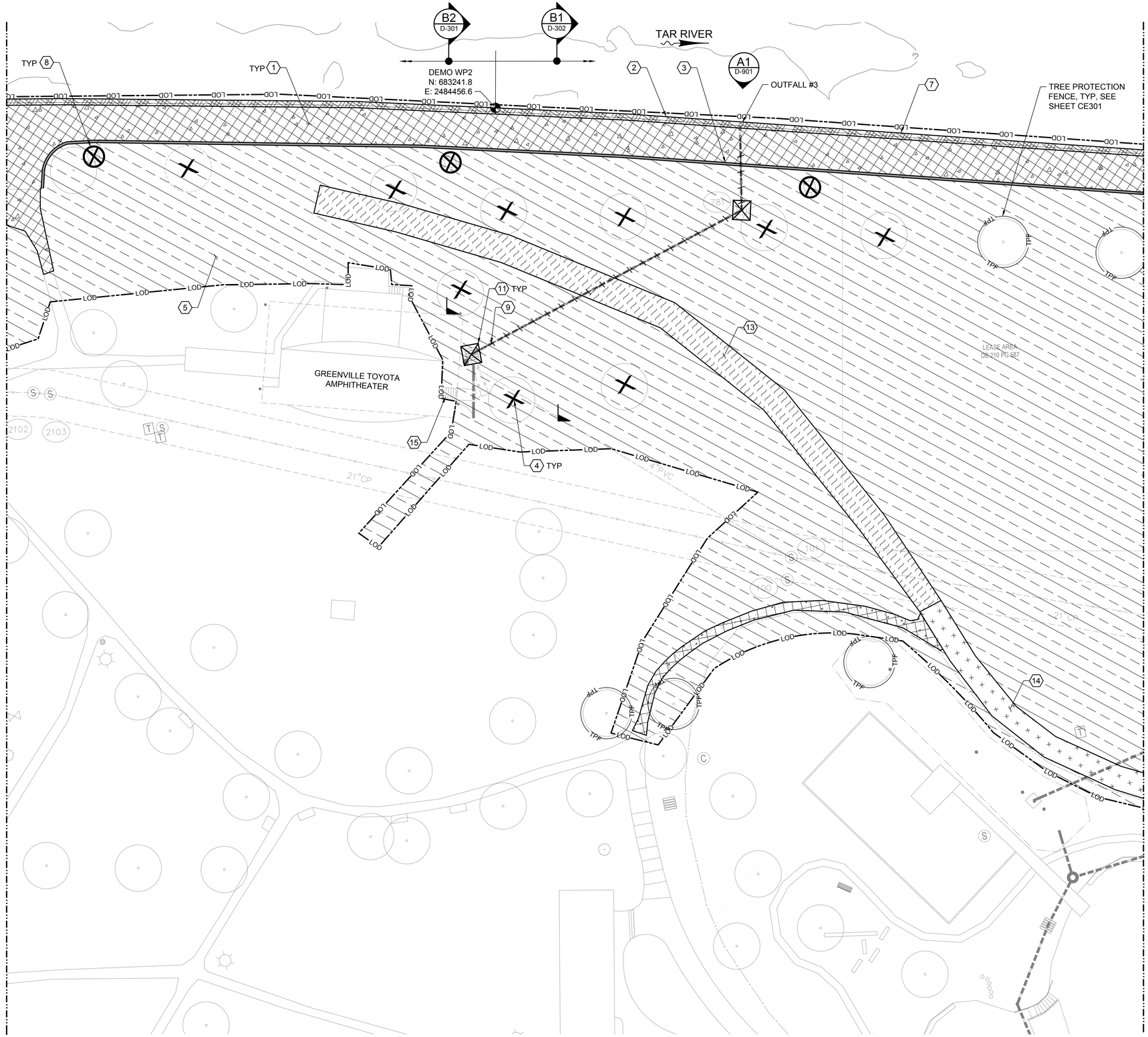
D-102

INDEX: 16 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



NOTES:

1. QUANTITIES SHOWN ARE FOR THIS SHEET ONLY.
2. QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO REMOVAL.
3. REFER TO V-SHEETS FOR SURVEY NOTES.
4. INSTALL EROSION CONTROL & TREE PROTECTION DEVICES PRIOR TO COMMENCING DEMOLITION (SEE SHEETS CE101, CE102, & CE301 THRU CE304).

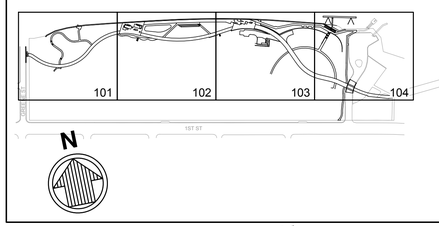
DEMOLITION LEGEND:

- DEMOLISH & DISPOSE OF OBJECT
- DEMOLISH & DISPOSE OF LIGHTPOLE (SHALL COORDINATE W/ GREENVILLE UTILITY COMMISSION PRIOR TO REMOVAL
- DEMOLISH & DISPOSE OF CONCRETE SIDEWALK
- PARTIALLY DEMOLISH & DISPOSE OF STEEL BULKHEAD
- DEMOLISH & DISPOSE OF BRICK RETAINING WALL
- GRADING DISTURBANCE AREA (REMOVE EXIST. VEGETATION AS NEEDED)
- DEMOLISH & DISPOSE OF GRAVEL DRIVE
- DEMOLISH & DISPOSE OF ASPHALT PATH
- DEMOLISH STORM DRAINAGE PIPE
- LOD — LIMITS OF DISTURBANCE
- TPF — TREE PROTECTION FENCE
- DEMOLISH & DISPOSE OF DROP INLET
- WORKPOINT

DEMOLITION KEY NOTES:

1. DEMOLISH CONCRETE WALKWAYS, 1,072 SY
2. PARTIALLY DEMOLISH SHEET PILE BULKHEAD, 476 LF
3. DEMOLISH BRICK RETAINING WALL, 476 LF
4. DEMOLISH TREE, 9 EA
5. EXCAVATION AREA, 59,770 SQFT
7. DEMOLISH METAL HANDRAIL WITH CHAINLINK MESH, 476 LF
8. DEMOLISH POLE, LUMINAIRE AND FOUNDATION. PULL BACK CONDUCTORS TO NEAREST UPSTREAM DEVICE OUTSIDE DEMO LIMITS. REMOVE CONDUIT BACK TO LIMIT OF DEMOLITION AND CAP, 3 EA
9. DEMOLISH STORM DRAINAGE PIPE, 193 LF
11. DEMOLISH & DISPOSE OF DROP INLET, 2 EA
13. DEMOLISH & DISPOSE OF GRAVEL DRIVE, 422 SY
14. DEMOLISH & DISPOSE OF ASPHALT PATH, 133 SY
15. DEMOLISH & DISPOSE OF STAIRS

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	App
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 3 OF 4

Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL
Date: 2025-02-07
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering | Surveying | Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
D-103
INDEX: 17 OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



NOTES:

1. QUANTITIES SHOWN ARE FOR THIS SHEET ONLY.
2. QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES PRIOR TO REMOVAL.
3. REFER TO V-SHEETS FOR SURVEY NOTES.
4. INSTALL EROSION CONTROL & TREE PROTECTION DEVICES PRIOR TO COMMENCING DEMOLITION (SEE SHEETS CE101, CE102, & CE301 THRU CE304).

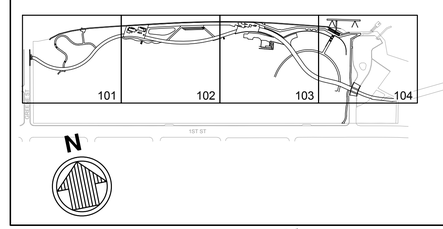
DEMOLITION LEGEND:

- DEMOLISH & DISPOSE OF OBJECT
- DEMOLISH & DISPOSE OF LIGHTPOLE (SHALL COORDINATE W/ GREENVILLE UTILITY COMMISSION PRIOR TO REMOVAL
- DEMOLISH & DISPOSE OF CONCRETE SIDEWALK
- PARTIALLY DEMOLISH & DISPOSE OF STEEL BULKHEAD
- DEMOLISH & DISPOSE OF BRICK RETAINING WALL
- GRADING DISTURBANCE AREA (REMOVE EXIST. VEGETATION AS NEEDED)
- DEMOLISH & DISPOSE OF ASPHALT PATH & ROADWAY
- DEMOLISH & DISPOSE OF CURB & GUTTER
- LOD — LIMITS OF DISTURBANCE
- TPF — TREE PROTECTION FENCE
- WORKPOINT

DEMOLITION KEY NOTES:

1. DEMOLISH CONCRETE WALKWAYS, 496 SY
2. PARTIALLY DEMOLISH SHEET PILE BULKHEAD, 255 LF
3. DEMOLISH BRICK RETAINING WALL, 238 LF
4. DEMOLISH TREE, 3 EA
5. EXCAVATION AREA, 48,274 SQFT
7. DEMOLISH METAL HANDRAIL WITH CHAINLINK MESH, 255 LF
8. DEMOLISH POLE, LUMINAIRE AND FOUNDATION. PULL BACK CONDUCTORS TO NEAREST UPSTREAM DEVICE OUTSIDE DEMO LIMITS. REMOVE CONDUIT BACK TO LIMIT OF DEMOLITION AND CAP, 1 EA
14. DEMOLISH & DISPOSE OF ASPHALT PATH & ROADWAY, 866 SY
16. DEMOLISH & DISPOSE OF CONC CURB & GUTTER, 257 LF

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 4 OF 4

Designed by: J. SWYERS
Drawn by: VNM
2nd by: MAP
Reviewed by: D. JACOBSON
Submitted by: ANTHONY PELLO
MOFFATT & NICHOL

Date: 2025-02-07
Rev. 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746

SEAL
049774
ENGINEER
BRYREY SWYERS
2/28/2025

SEAL

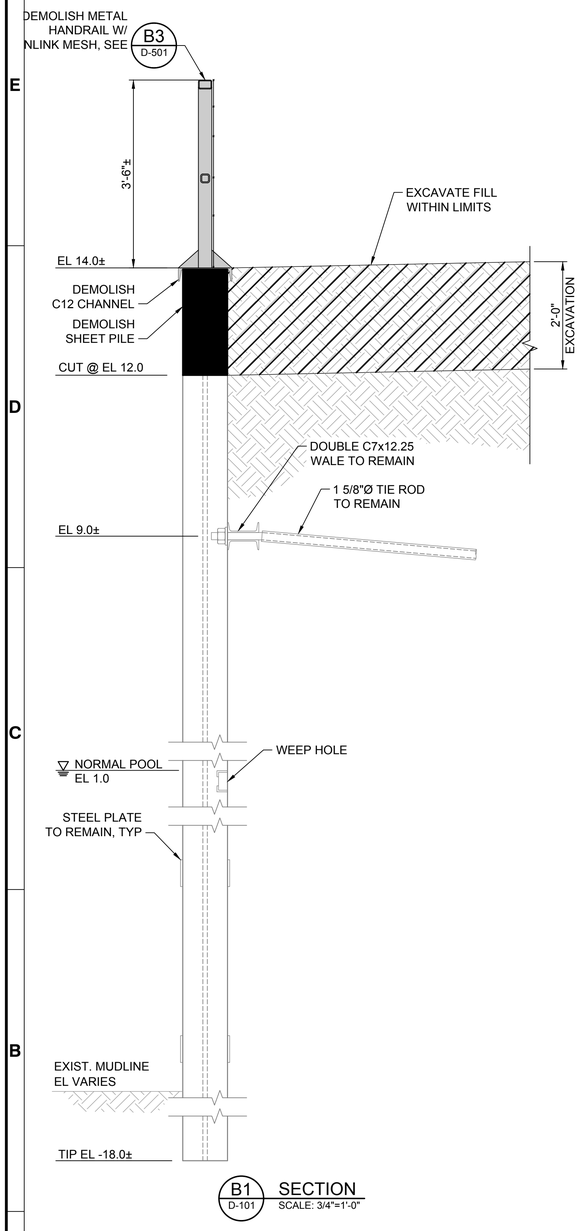
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Sheet Reference No.
D-104
INDEX: 18 OF 114

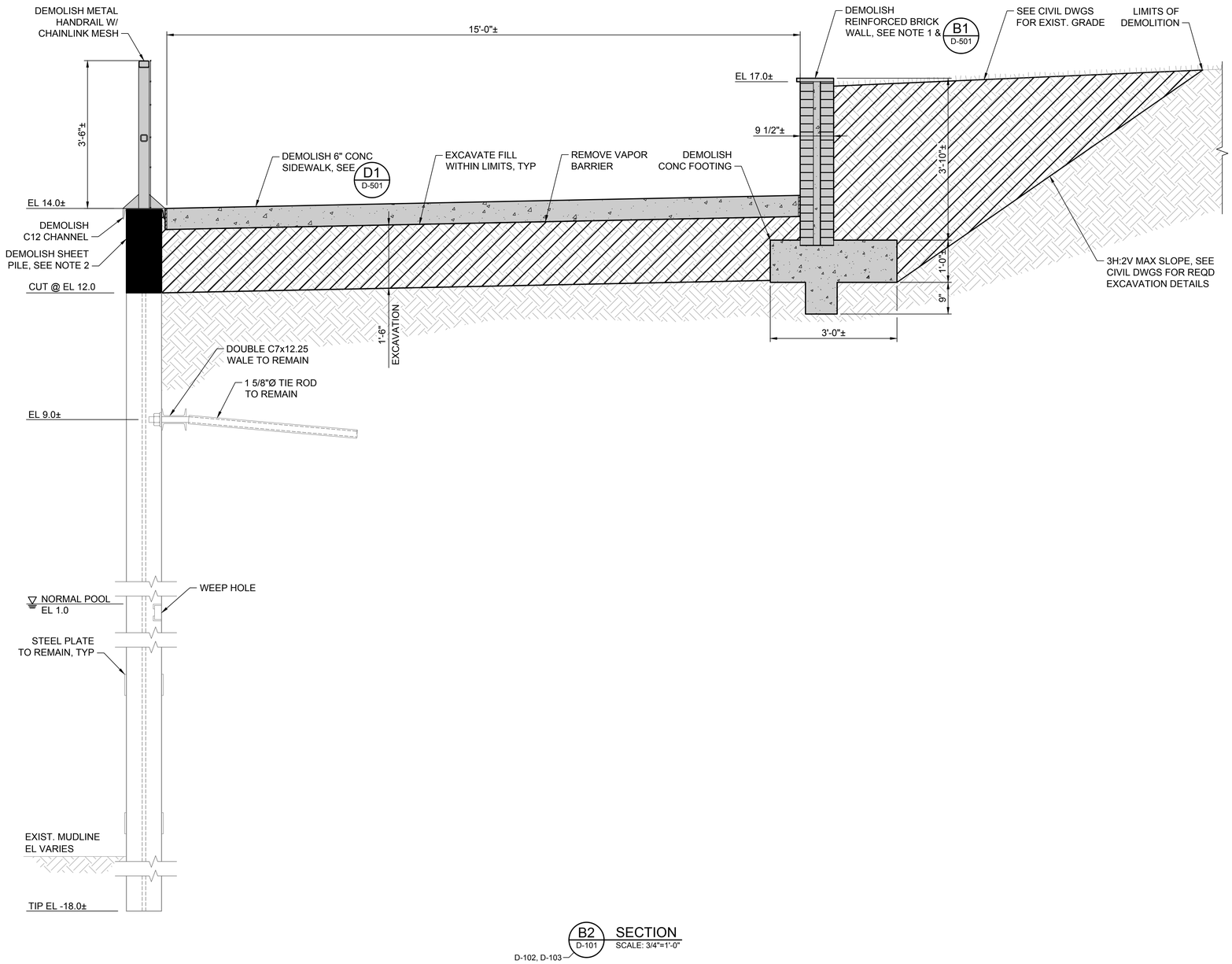
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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B1 D-101 SECTION
SCALE: 3/4"=1'-0"



B2 D-101 SECTION
SCALE: 3/4"=1'-0"
D-102, D-103

NOTES:

1. PRIOR TO THE DEMOLITION OF THE BRICK RETAINING WALL EXCAVATE THE FILL BEHIND THE WALL. CONTRACTOR SHALL STABILIZE WALL DURING DEMOLITION.
2. DEMOLISH EXISTING BULKHEAD LADDER, WHERE PRESENT, TO SAME ELEVATION AS BULKHEAD DEMOLITION.
3. INSTALL NEW BULKHEAD PRIOR TO DEMOLITION OF EXISTING BULKHEAD. REFER TO GENERAL SHEETS FOR CONSTRUCTION SEQUENCE.

LEGEND:

EXCAVATION

DEMOLITION

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Drawn by	Date	Appr.
0	ISSUED FOR BID		2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION SECTION SHEET 1 OF 3

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No.: 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering : Surveying : Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

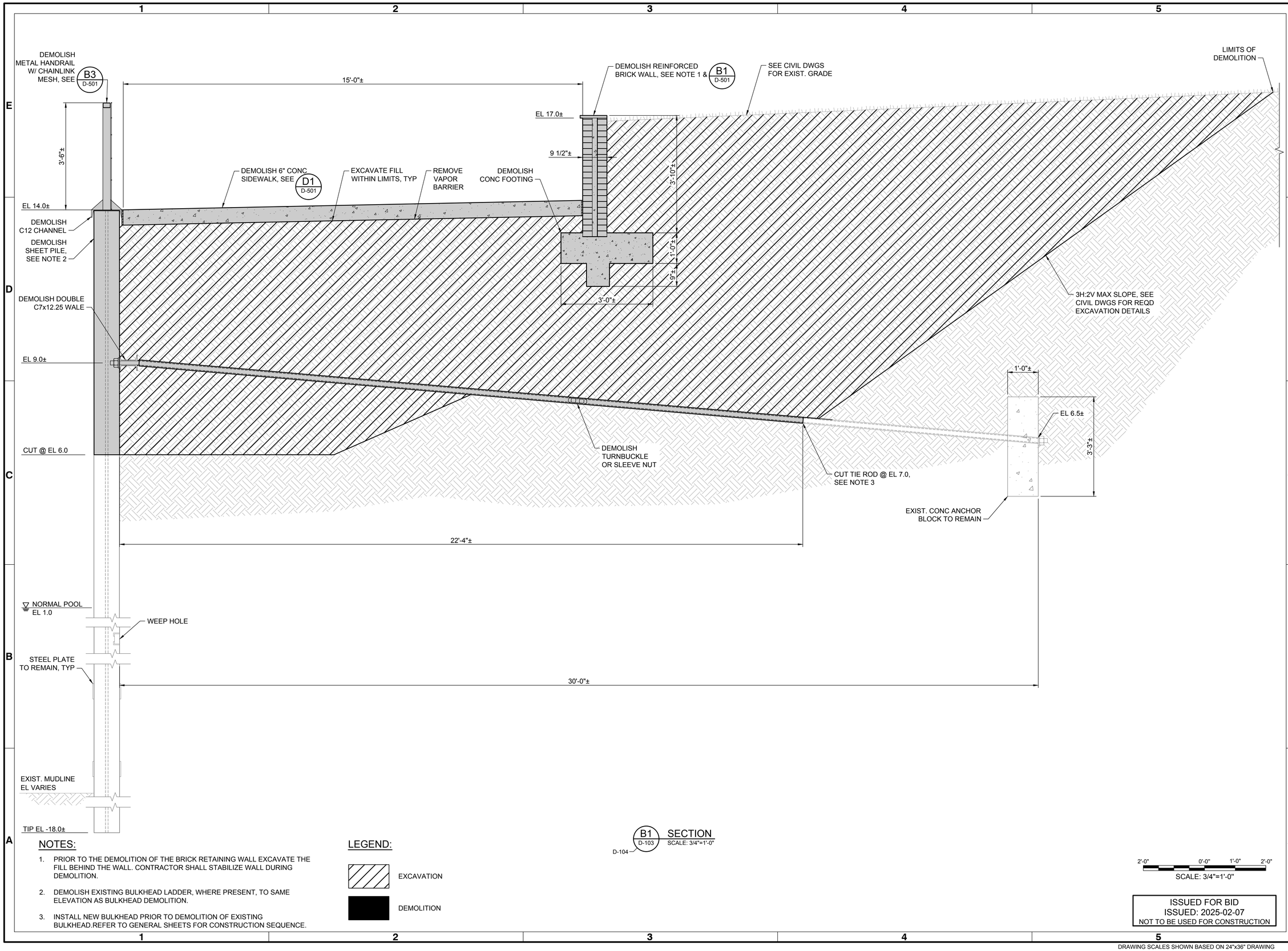
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Sheet Reference No.
D-301
INDEX: 19 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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NOTES:

1. PRIOR TO THE DEMOLITION OF THE BRICK RETAINING WALL EXCAVATE THE FILL BEHIND THE WALL. CONTRACTOR SHALL STABILIZE WALL DURING DEMOLITION.
2. DEMOLISH EXISTING BULKHEAD LADDER, WHERE PRESENT, TO SAME ELEVATION AS BULKHEAD DEMOLITION.
3. INSTALL NEW BULKHEAD PRIOR TO DEMOLITION OF EXISTING BULKHEAD.REFER TO GENERAL SHEETS FOR CONSTRUCTION SEQUENCE.

LEGEND:

EXCAVATION

DEMOLITION

B1 / D-103 — D-104 SECTION
SCALE: 3/4"=1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	App'd
0	ISSUED FOR BID	2025-02-07	JMS

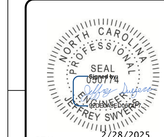
GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION SECTION SHEET 2 OF 3

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO MOFFATT & NICHOL
Date: 2025-02-07
Rev: 1
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427



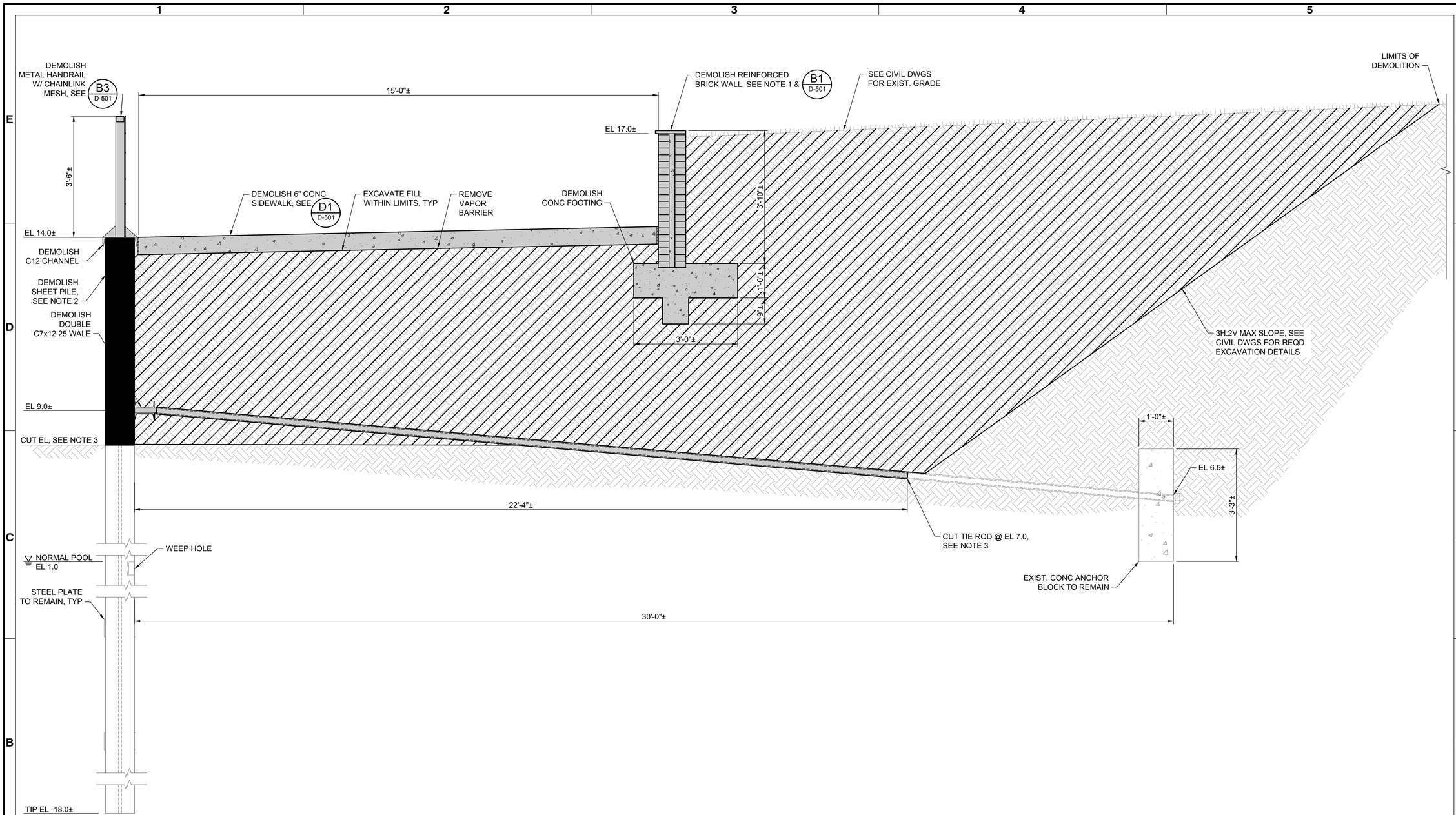
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SEAL

Sheet Reference No.
D-302
INDEX: 20 OF 114

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B1 / D-104 SECTION
SCALE: 3/4"=1'-0"

NOTES:

1. PRIOR TO THE DEMOLITION OF THE BRICK RETAINING WALL EXCAVATE THE FILL BEHIND THE WALL. CONTRACTOR SHALL STABILIZE WALL DURING DEMOLITION.
2. DEMOLISH EXISTING BULKHEAD LADDER, WHERE PRESENT, TO SAME ELEVATION AS BULKHEAD DEMOLITION.
3. CUT SHEET PILE TO THE HIGHER ELEVATION BETWEEN EXISTING MUDLINE AND EL +2.0.
4. EXCAVATE TO FINAL CUT ELEVATION BEFORE CUTTING EXISTING TIE ROD. CONTRACTOR SHALL STABILIZE WALL DURING DEMOLITION AND REFER TO GENERAL SHEETS FOR DEMOLITION SEQUENCE

LEGEND:

EXCAVATION

DEMOLITION

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	App'd
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION SECTION SHEET 3 OF 3

Rev: 1
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: J. SWYERS
Dwn by: VNM
Ckd by: MAP
Reviewed by: D. JACOBSSON
Submitted by: MARK PORCELLO MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
334 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

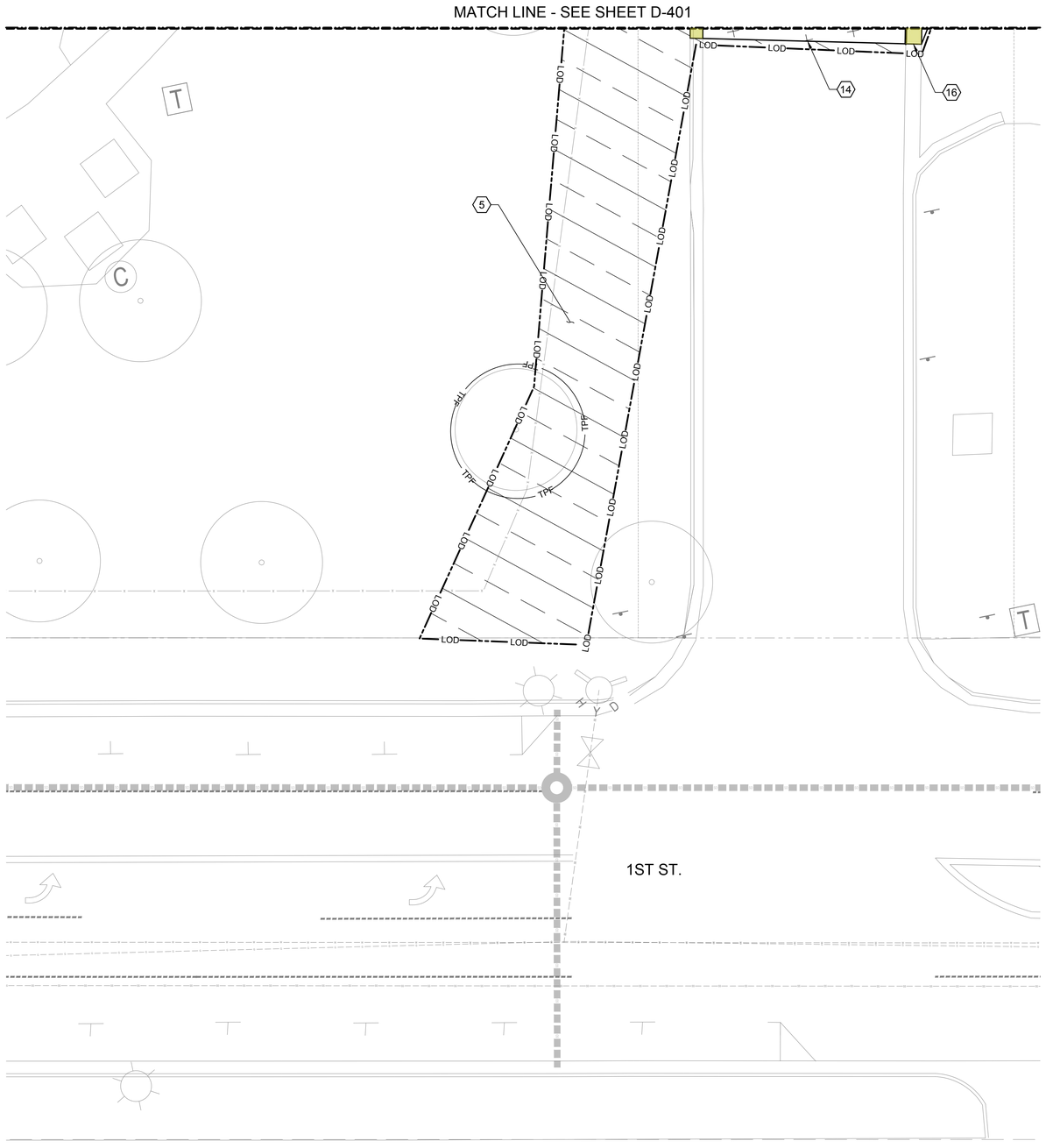
NORTH CAROLINA PROFESSIONAL SEAL 050776 ENGINEER BRIAN C. FORD GRAHAM, NC
2/28/2025
SEAL

SEAL

Sheet Reference No.
D-303
INDEX: 21 OF 114

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4. INSTALL EROSION CONTROL & TREE PROTECTION DEVICES PRIOR TO COMMENCING DEMOLITION (SEE SHEETS CE101, CE102, & CE301 THRU CE304).

DEMOLITION LEGEND:

- GRADING DISTURBANCE AREA (REMOVE EXIST. VEGETATION AS NEEDED)
- DEMOLISH & DISPOSE OF ASPHALT PATH & ROADWAY
- DEMOLISH & DISPOSE OF CURB & GUTTER
- LOD — LIMITS OF DISTURBANCE
- TPF — TREE PROTECTION FENCE

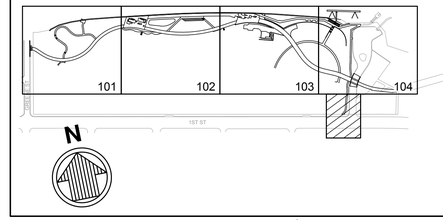
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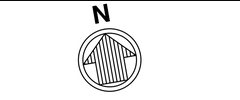
(5) EXCAVATION AREA, 1,942 SQFT

(14) DEMOLISH & DISPOSE OF ASPHALT PATH & ROADWAY, 8 SY

(16) DEMOLISH & DISPOSE OF CONC CURB & GUTTER, 5 LF

KEY PLAN





10' 0' 10' 20'

SCALE: 1"=10'

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
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GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ENLARGED DEMOLITION PLAN

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO, MOFFATT & NICHOL

Date: 2025-02-07
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
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THE EAST GROUP
Engineering : Surveying : Technology
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GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER MARK E. PIRELLO
2/28/2025
SEAL

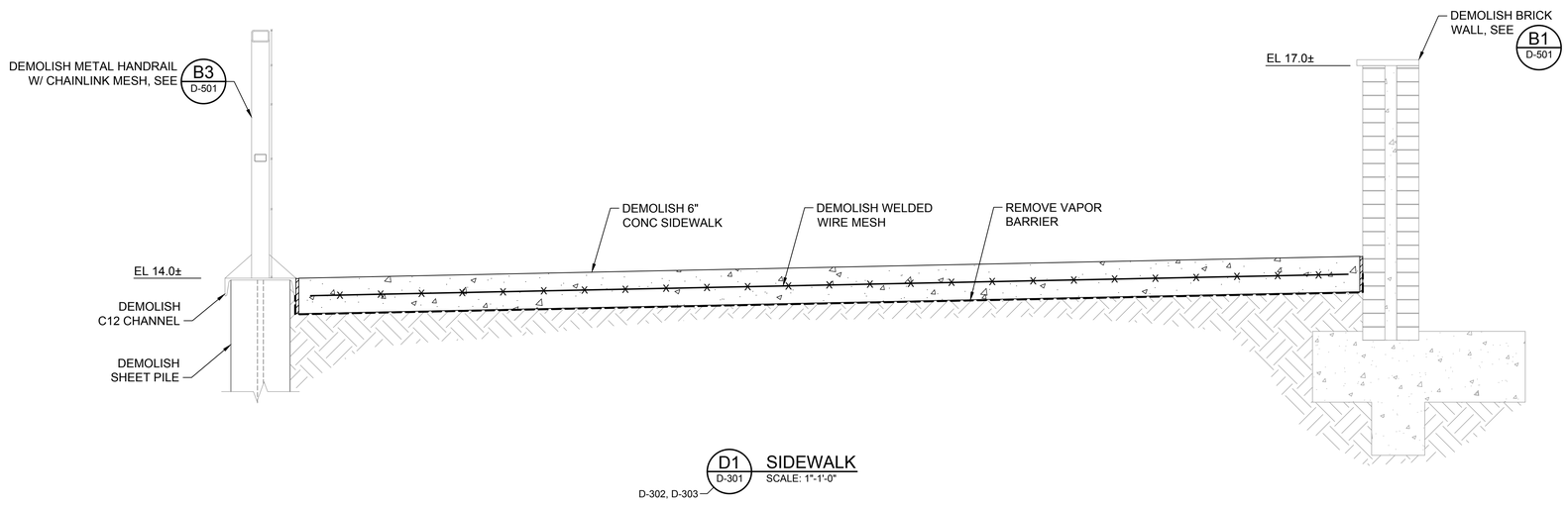
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Sheet Reference No.
D-401
INDEX: 22 OF 114

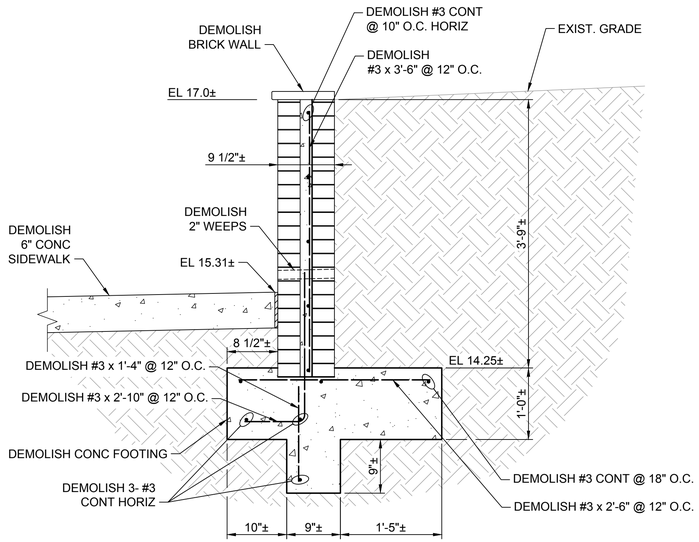
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

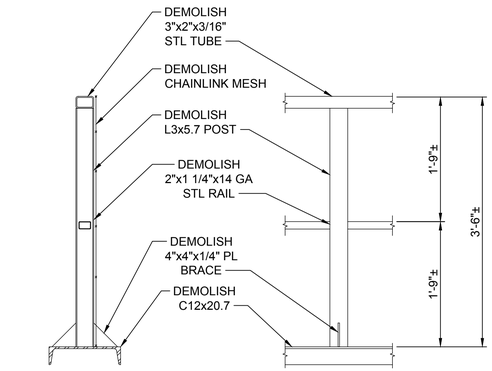
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D1 D-301 SIDEWALK
SCALE: 1"-1'-0"



B1 D-301 RETAINING WALL
SCALE: 1"=1'-0"
D-302, D-303, D-501



B3 D-301 HANDRAIL
SCALE: 1"=1'-0"
D-302, D-303, D-501

1" 0'-0" 1" 2"
SCALE: 1"=1"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
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GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Cked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO, MOFFATT & NICHOL
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
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919-781-4626
NC FIRM LICENSE NO: F-0105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
Engineering Surveying Management Technology

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

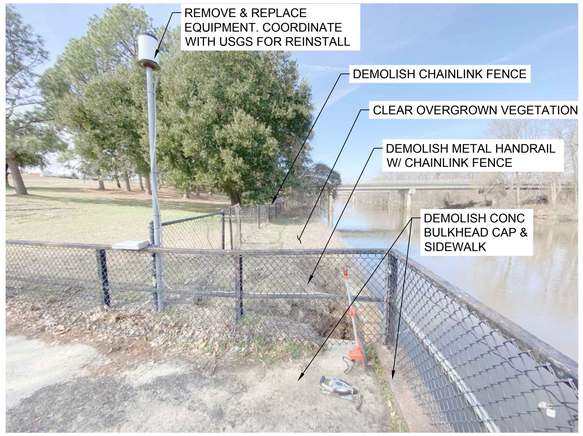
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Sheet Reference No.
D-501
INDEX: 23 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

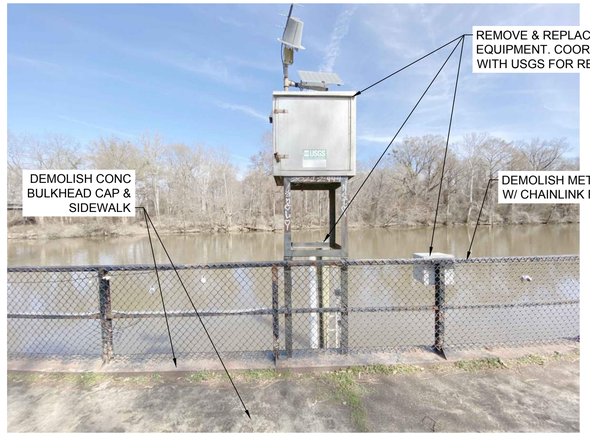
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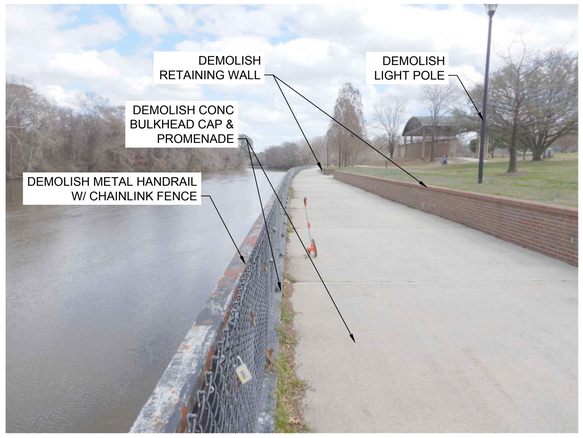
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SCALE: NTS



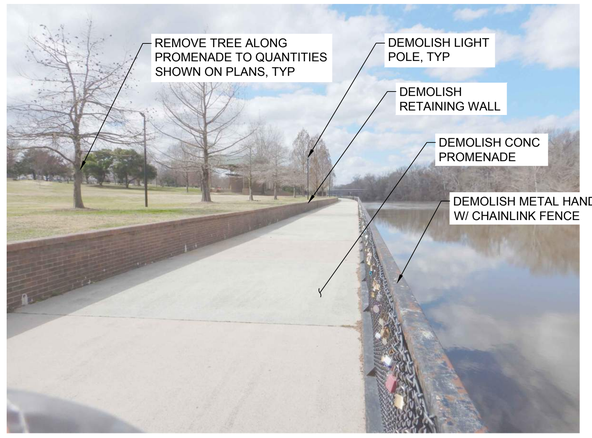
D3 D-101 DEMOLITION PHOTOGRAPH
SCALE: NTS



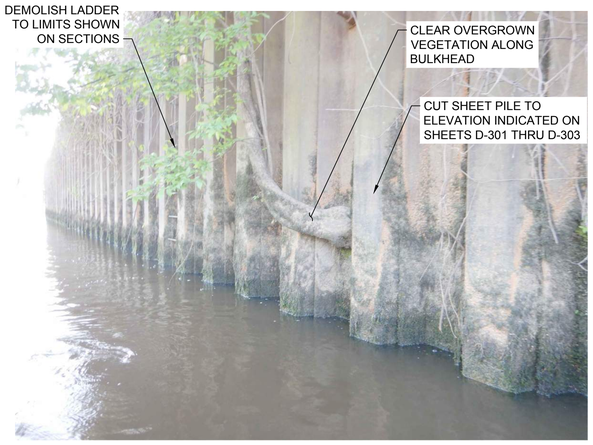
D5 D-101 DEMOLITION PHOTOGRAPH
SCALE: NTS



C1 D-102 DEMOLITION PHOTOGRAPH
SCALE: NTS



C3 D-102 DEMOLITION PHOTOGRAPH
SCALE: NTS



C5 D-102 DEMOLITION PHOTOGRAPH
SCALE: NTS



A1 D-103 DEMOLITION PHOTOGRAPH
SCALE: NTS



A3 D-104 DEMOLITION PHOTOGRAPH
SCALE: NTS



A5 D-104 DEMOLITION PHOTOGRAPH
SCALE: NTS

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ISSUED: 2025-02-07
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PHOTOGRAPHS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
M&N Project No.: 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050779 ENGINEER JEFFREY SWYERS 2/28/2025
SEAL

SEAL

Sheet Reference No.
D-901
INDEX: 24 OF 114

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GENERAL NOTES:

1. SITE SHALL MEET ALL RELATED ACCESSIBILITY REQUIREMENTS.
2. WATERBODIES SUBJECT TO TAR PAMLICO BUFFER RULES EXIST WITHIN THE DISTURBED LIMITS OF THE PROJECT AREA.
3. THIS PROJECT DOES NOT DISTURB WETLANDS.
4. THIS PROJECT DISTURBS MORE THAN 1-ACRE AND REQUIRES A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT.
5. THIS PROJECT DISTURBS MORE THAN 1/2-ACRE AND REQUIRES A STORMWATER MANAGEMENT PLAN.
6. THIS PROJECT DOES NOT INCREASE THE RATE OF RUNOFF MORE THAN 10%.
7. CITY OR NCDOT DRIVEWAY PERMIT IS NOT REQUIRED FOR THIS PROJECT. ANY ENCROACHMENT AGREEMENTS SHALL BE APPROVED BEFORE INSTALLATION.
8. AN UNUSED DRIVEWAY MUST BE CLOSED IN ACCORDANCE WITH THE CITY OF GREENVILLE'S DRIVEWAY ORDINANCE.
9. CONTRACTOR MUST NOTIFY ONE - CALL CENTER, INC. (NC ONE-CALL) (811) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION OR TRENCHING TO HAVE ALL UNDERGROUND UTILITIES LOCATED.
10. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS (MSDD).
11. CONTRACTOR SHALL NOTIFY ENGINEERING, LAND DEVELOPMENT DIVISION 72 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY.
12. THIS PROPERTY IS LOCATED IN ZONE "X" AND "AE" AND IS PARTIALLY LOCATED IN A SPECIAL FLOOD HAZARD AREA AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K; BASE FLOOD ELEVATION (BFE) NOTED HEREON.
13. LANE CLOSURES ON THOROUGHFARE ROADS ARE ONLY PERMITTED BETWEEN THE HOURS OF 9:00AM AND 4:00PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE TRAFFIC ENGINEER. IN ADDITION, THERE WILL BE NO LANE CLOSURES ON HOLIDAYS INCLUDING THE DAY BEFORE OR AFTER SAID HOLIDAY. A TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE NCDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES IS REQUIRED FOR ALL LANE CLOSURES AND MUST BE APPROVED BY THE TRAFFIC ENGINEER.
14. ALL SITE LIGHTING SHALL COMPLY WITH THE LIGHTING STANDARDS FOR THE CITY OF GREENVILLE.
15. CONTACT CITY OF GREENVILLE ENGINEERING DEPARTMENT AT 252-329-4888 FOR PRE-POUR INSPECTION PRIOR TO POURING CONCRETE IN RIGHT OF WAY.
16. CONTRACTOR SHALL PROVIDE A CONSTRUCTION PHASING AND LOGISTICS PLAN FOR REVIEW AND APPROVAL BY OWNER PRIOR TO CONSTRUCTION.
17. UNLESS SHOWN HEREON, NO ENCROACHMENT OF ANY TYPE, INCLUDING CLEARING, FILLING, EXCAVATION, GRADING, NEW CONSTRUCTION, SUBSTANTIAL IMPROVEMENTS, OR OTHER TYPES OF DEVELOPMENT ARE PERMITTED IN THE FLOODWAY AS DENOTED ON THIS PLAN UNLESS A "NO-RISE CERTIFICATION" IS PROVIDED IN ACCORDANCE WITH THE FLOOD DAMAGE PREVENTION ORDINANCE.
18. NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510 - EMERGENCY RESPONDER RADIO COVERAGE.
19. REFUSE COLLECTION METHOD: PUBLIC SERVICE. CARDBOARD IS NOT ACCEPTED BY THE LANDFILL.

    CARDBOARD (RECYCLE) CONTAINER SITES (PADS) OR OTHER OUTSIDE STORAGE/STACKING (RECYCLE) AREAS SHALL BE LOCATED.

    RESIDENTIAL: PUBLIC SERVICE REQUIRED PER TITLE 6, CHAPTER 3 OF THE CITY CODE.

    NON-RESIDENTIAL: PRIVATE SERVICE ONLY. THE APPLICANT SHALL, AT THE TIME OF APPLICATION, SPECIFY THE METHOD OF PRIVATE REFUSE DISPOSAL. SERVICEABLE CONTAINER SITES (PADS) SHALL BE LOCATED FOR IMMEDIATE OR FUTURE USE REGARDLESS OF THE DISPOSAL OPTION.

    THE LOCATION(S) AND DESIGN DETAILS FOR SUCH CONTAINER SITES (PADS) SHALL BE APPROVED BY THE CITY ENGINEER IN ACCORDANCE WITH THE MANUAL OF STANDARDS, DESIGNS AND DETAILS.
20. NO LARGE TREES CAN BE PLANTED ON THE GREENVILLE UTILITIES COMMISSION SEWER EASEMENT.

CONSTRUCTION SEQUENCE & EROSION CONTROL:

1. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE/ EXIT.
2. DISTURB LAND ONLY AS NECESSARY TO INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED OR AS DIRECTED BY THE ENGINEER.
3. PERFORM SITE CLEARING AND DEMOLITION, IN ACCORDANCE WITH PLANS, INCLUDING REMOVAL OF EXISTING PAVEMENT, CURB & GUTTER, SIDEWALK, AGGREGATE BASE COURSE, TREES, SHRUBS, ETC. FROM THE SITE AND DISPOSE OF DEBRIS AT AN APPROVED SITE. PRIOR TO AND DURING DEMOLITION PHASE INSTALL APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES.
4. INSTALL THE NEW BULKHEAD TO THE LIMITS AS INDICATED ON THE PLANS FOLLOWING THE REQUIREMENTS OF THE METAL SHEET PILING SPECIFICATION. FILL THE VOID BETWEEN THE NEW AND EXISTING BULKHEAD WALLS WITH GRANULAR MATERIAL AND THEN INSTALL SOIL ANCHORS TO LIMITS AS INDICATED ON THE PLANS, FOLLOWING THE REQUIREMENTS OF THE SOIL ANCHORS SPECIFICATION. WHERE THE NEW BULKHEAD IS TO BE INSTALLED LANDSIDE OF THE EXISTING BULKHEAD, THE EXISTING BULKHEAD IS TO BE REMOVED TO THE LIMITS AS INDICATED ON THE PLANS PRIOR TO INSTALLATION (SEE NOTE 5).
5. THE EXISTING BULKHEAD IS TO BE REMOVED TO THE LIMITS AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL EXERCISE CAUTION DURING DEMOLITION TO AVOID DEBRIS AND RUBBISH FALLING INTO THE TAR RIVER. WHERE THE EXISTING BULKHEAD IS TO BE CUT BELOW THE EXISTING TIE ROD ELEVATION (EL 9.0 NAVD88), THE NEW BULKHEAD WALL AND SOIL ANCHORS MUST BE IN PLACE. IN AREAS WHERE NO NEW WALL IS INSTALLED ON THE WATERSIDE OF THE EXISTING BULKHEAD, THE BULKHEAD MUST BE UNLOADED BEFORE CUTTING TIE RODS. TO ACHIEVE THIS, EXCAVATE BEHIND THE EXISTING WALL TO EL 2.0 NAVD88 AT A MINIMUM OR TO THE GRADE ELEVATION WATERSIDE OF THE WALL, WHICHEVER COMES FIRST.
6. CONSTRUCT VEGETATED CONVEYANCE FEATURES AND INSTALL FAIRCLOTH SKIMMERS
7. DIVERT PIPED DRAINAGE TO THE VEGETATED CONVEYANCES AND CONNECT WITH BULKHEAD DISCHARGE POINTS PER CE-102
8. BEGIN GRADING THE SITE.
9. BEGIN EXCAVATION FOR UNDERGROUND CONSTRUCTION. CONSTRUCT UNDERGROUND IMPROVEMENTS.
10. INSTALL DRAINAGE INLETS AND STORM DRAINAGE PIPING WITH TEMPORARY INLET PROTECTION.
11. CONSTRUCT SITE IMPROVEMENTS.
12. MAINTAIN EROSION AND SEDIMENTATION MEASURES DURING CONSTRUCTION. CHECK THE MEASURES FOR FAILURE AND AVAILABLE SEDIMENT STORAGE AFTER EACH SIGNIFICANT RAINFALL EVENT.
13. MULCH AND SEED ALL DISTURBED AREAS. ANY SLOPES LEFT EXPOSED WILL WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVISES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
14. COMPLETE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS.
15. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE PERMANENT VEGETATION IS ESTABLISHED.
16. CLEAN SEDIMENTS FROM VEGETATED CONVEYANCES AND REMOVE SKIMMERS ONCE SITE IS STABILIZED WITH ESTABLISHED VEGETATION.
17. TIME OF EXPOSURE IS APPROXIMATELY 10 MONTHS OR UNTIL COMPLETION AND STABILIZATION OF THE SITE. CONTRACTOR SHALL PREPARE FOR MAINTENANCE OF STABILIZATION OF THE SITE. CONTRACTOR SHALL PREPARE FOR MAINTENANCE OF STABILIZATION OF THE SITE. CONTRACTOR SHALL PREPARE FOR MAINTENANCE OF SITE EROSION & SEDIMENTATION MEASURES APPROPRIATE FOR EXPECTED DURATION.

STORM DRAINAGE DESIGN NARRATIVE:

THE STORMWATER DRAINAGE DESIGN WILL PROVIDE SHEET FLOW WHERE POSSIBLE. STORM DRAINAGE INTERCEPTION IS REQUIRED AT CURB DISCHARGE POINTS, WALLS, AND AREAS PONDED BY WALKWAYS. THE RUNOFF INTERCEPTION POINTS WILL BE CONNECTED WITH SMALL DIAMETER PIPING AND CONVEYED TO EXISTING DISCHARGE POINTS WITHIN THE BULKHEAD. DISCHARGES TRAVEL THROUGH VEGETATED CONVEYANCE PRIOR TO DISCHARGE.

ENGINEERED STORMWATER CONTROLS SHOWN IN THIS PROJECT ARE AESTHETIC IN NATURE, ARE FOR DEMONSTRATION PURPOSES.

GRADING NOTES:

1. ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM FILL AREAS PRIOR TO PLACING FILL. ANY QUESTIONABLE OR UNSUITABLE SOIL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. AFTER STRIPPING TOPSOIL AND PRIOR TO PLACING FILL, IT IS RECOMMENDED THAT ALL BUILDING, PARKING AND DRIVEWAY AREAS BE ROLLED WITH A VIBRATORY ROLLER TO CONSOLIDATE LOOSE SOILS IN THE UPPER SUBGRADE. COMPACTION TEST RESULTS OF AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY WILL BE REQUIRED PRIOR TO ENGINEER AND SCHEDULE A PROOF ROLL FOR SUBGRADE AND WHEN AGGREGATE BASE COURSE HAS BEEN INSTALLED.
3. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
4. ALL CULVERT CLEANOUT MUST BE DONE SUCH THAT THE SEDIMENT IS EITHER EXTRACTED OR BLOWN UPSTREAM FOR CLEANUP. UNDER NO CIRCUMSTANCES SHALL SEDIMENT BE BLOWN DOWNSTREAM.
5. GRADING CONTRACTOR SHALL TEMPORARY SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS WITHIN 14 DAYS OF THE COMPLETION OF GRADING WORK. UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INSTALL PERMANENT SEEDING AS OUTLINED IN THE SPECIFICATIONS. ALL DRAINAGE PIPES SHALL BE CLEANED BY THE GENERAL CONTRACTOR TO REMOVE ANY SEDIMENTS THAT HAVE ACCUMULATED.
6. ALL EXCESS TOPSOIL STRIP MATERIAL TO BE HAULED OFF-SITE AND DEPOSED OF AT AN APPROVED SITE.
7. ALL PLANTING AREAS SHALL BE BACKFILLED WITH TOPSOIL AND RAKED DOWN, REMOVING ALL CLODS AND ROOTS, AND LEFT READY FOR SEEDING AND PLANTING.

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND SEPARATION FOLLOWING EVERY 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FT DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
3. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/ EXIT WILL BE INSPECTED PERIODICALLY. WHEN MED BEGINS TO BUILD-UP, THE ENTRANCE WILL BE BLADED OF F REMOVING THE MUD. ADD NEW STONE TO ENTRANCE AS NEEDED.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATION IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
5. INSPECT INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (0.5" OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT FROM THE SEDIMENT POOL AREA WHEN THE VOLUME IS DECREASED BY HALF.
6. REMOVE INLET SEDIMENT IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED. REPLACE FABRIC IF TORN OR PUNCTURED TO >0.5" DIAMETER.

EROSION CONTROL NOTES:

1. SCHEDULING OF A PRECONSTRUCTION CONFERENCE WITH THE NCDEQ IS REQUIRED PRIOR TO INITIATING LAND DISTURBING ACTIVITIES. FOR SCHEDULING PLEASE CALL THE WASHINGTON REGIONAL OFFICE AT (252) 946-6481. A 48-HOUR NOTICE IS REQUIRED. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING THE CITY OF THE DATE OF LAND DISTURBING ACTIVITY.
2. NO LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MEASURES MAY PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY ENGINEER.
3. SEE AND MULCHING OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 14 WORKING DAYS OF COMPLETING ANY PHASE OF GRADING.
4. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN ISSUANCE OF A STOP WORK ORDER OR CIVIL PENALTIES UP TO $5,000 PER DAY OF VIOLATION. SITES UTILIZING SEDIMENT TRAPS MUST ALSO SPECIFY A MAXIMUM DEPTH OF SEDIMENT PRIOR TO CLEAN OUT.
5. ACCEPTANCE AND APPROVAL OF THE PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATIONS, AND RULES. IN ADDITION, LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND-DISTURBING ACTIVITY. APPROVAL BY THE CITY DOES NOT SUPERCEDE ANY OTHER PERMIT OR APPROVAL.
6. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER QUALITY (DWQ). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, WASHINGTON REGIONAL OFFICE AT (252) 946-6481.
7. INSTALL INLET PROTECTION AROUND ALL CATCH BASINS, DROP INLETS OR INLET STRUCTURES WITHIN THE CONSTRUCTION/DISTURBED AREA.
8. CONTRACTOR SHALL PROVIDE MEASURES TO CLEAN ANY SOILS OR SEDIMENT THAT IS TRACKED, PLACED, OR FLOWS ONTO EXISTING PAVEMENT AND IMPROVED SURFACES THAT ARE TO REMAIN.
9. THIS PROJECT DISTURBS OVER 1-ACRE AND REQUIRES AND EROSION & SEDIMENT CONTROL PERMIT.

GROUND STABILIZATION

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
* PERIMETER DIKES, SWALES, DITCHES AND 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 FEET IN LENGTH
* ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

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ISSUED: 2025-02-07
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-05-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE PLAN NOTES

Rev.
Date:
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (1D SHEET)
Designed by:
Drwn by:
Chkd by:
Reviewed by:
Submitted by: MARK ANDREWELLO
MOFFATT & NICHOL C-427

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4700 FALLS OF NEUSE RD. SUITE 300
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NC LANDSCAPE FIRM LICENSE NO. C-427

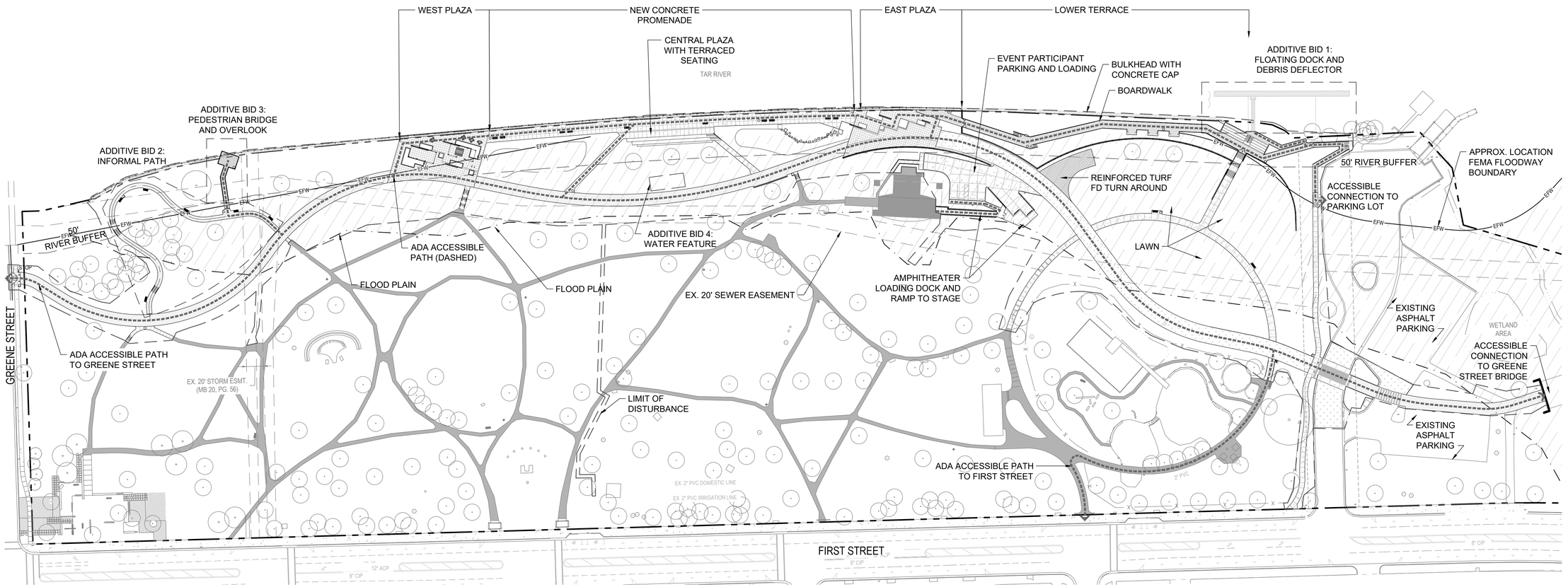
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049855 Signed by: Faith Tripp
2/7/2025

SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHUE
2/7/2025

Sheet Reference No.
C-001
INDEX: 25 OF 114

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SITE DATA		
(a)	TOTAL AREA IN SITE	19.92 ACRES
(b)	TOTAL AREA DISTURBED	5.48 ACRES
(c)	CURRENT ZONING	OR & CD
	LAND USE CLASSIFICATION	LUC 2- PUBLIC PARK
(d)	SUBDIVISION NAME, BLOCK & LOT	TOWN COMMON
	TAX MAP AND PARCEL NUMBER	27654 & 23787
	STREET ADDRESS	0 & 105 E. FIRST STR.
(e)	ACREAGE IN COMMON AREA	N/A
(f)	ACREAGE IN RECREATION AREA	19.92
(g)	TOTAL NUMBER OF UNITS/BEDROOMS	N/A
(h)	GROSS FLOOR AREA	N/A
(i)	BUILDING LOT COVERAGE (EXISTING FOR ENTIRE SITE)	N/A
	BUILDING LOT COVERAGE (EXISTING FOR PROJECT LIMITS)	N/A
	BUILDING LOT COVERAGE (PROPOSED WELCOME CENTER)	N/A
(j)	BUILDING HEIGHT (FEET & STORIES)	N/A
	TOTAL NUMBER OF PARKING SPACES (EXISTING WITHIN PROJECT LIMITS)	0
	TOTAL NUMBER OF PARKING SPACES (EXISTING WITHIN PROJ. LIMITS)	0
(l)	TOTAL NUMBER OF ACCESSIBLE PARKING SPACES (REQUIRED)	0
	TOTAL NUMBER OF ACCESSIBLE PARKING SPACES (PROVIDED)	8*
(m)	TOTAL SQUARE FEET OF IMPERVIOUS AREA (EXISTING WITHIN LOD)	147,600 SF
	TOTAL SQUARE FEET OF IMPERVIOUS AREA (PROPOSED WITHIN LOD)	170,157 SF
	PERCENTAGE DIFFERENCE	2.6% INCREASE

OWNER / DEVELOPER
CITY OF GREENVILLE
2000 CEDAR LANE
GREENVILLE, NC 27858
CONTACT: MARK NOTTINGHAM, PARKS PLANNER
252-329-4242
mnottingham@greenvillenc.gov

N

60' 0' 60' 120'

SCALE: 1"=60'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

OVERALL SITE PLAN

Designed by:
Drawn by:
Reviewed by:
Submitted by: MARK HARRELL, PLLO MOFFATT & NICHOL

Date:
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (1) SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
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NC FIRM LICENSE NO. F-0105
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NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427
THE EAST GROUP
Engineering • Surveying • Technology

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL Signed by: Todd Trip E39108CE3F7F4DF... TODD ALAN TRIP 9/2/2025
SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 1840 Signed by: Sharon Rhue A28881EAA3B74EE... SHARON RHUE 9/2/2025
SEAL

Sheet Reference No.
C-102
INDEX: 26 OF 114

File: K:\01_Projects\Greenville, City of\2022\2217 M&N COG Town Com Bulkhead\dwg\3 Construction Plans\SHEETS\LA Sheet Set\20222217_C-001_SITE - Plotted: 2/27/2025 5:45 PM by ANDREW HARRELL | Saved: 2/27/2025 4:05 PM by SHARON.RHUE

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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MOVE SILT FENCE 5-FEET INSIDE BULKHEAD FACE AFTER PROMENADE DEMOLITION

1 CE302 TURBIDITY BARRIER

E4 CE301 INLET PROTECTION (TYP)

B4 CE301 TREE PROTECTION FENCE (TYP)

CONSTRUCTION ENTRANCE C4 CE301

A4 CE301 SILT PROTECTION FENCE (TYP)

CONSTRUCTION FENCE (TYP)

LIMIT OF DISTURBANCE (TYP)

TAR RIVER

WETLAND AREA

EX. 20' SSWR ESMT. MB 20 PG 56

EX. 20' STORM ESMT. (MB 20, PG. 56)

EX. 20' SSWR ESMT. MB 20 PG 56

EX. 20' SSWR ESMT. MB 20 PG 56

EX 12' ACCESS ESMT. (DB L42, PG 19)

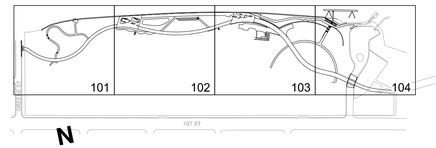
EX. 21' CP & ESMT. MB 20 PG 56

EX. 2" PVC DOMESTIC LINE

EX. 2" PVC IRRIGATION LINE

EROSION CONTROL LEGEND:

- SF — SILT FENCE
- TPF — TREE PROTECTION
- TB — TURBIDITY BARRIER
- INLET PROTECTION



N

60' 0' 60' 120'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

No.	Mark	Description	Date	Appr.
A.		60% CD FOR INTERNAL REVIEW	06/21/24	SKR
	0	ISSUED FOR BID	2025-02-07	
	1	ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PRELIMINARY EROSION CONTROL PLAN

Designed by: SR
Drawn by: SR
Reviewed by: SR
Submitted by: MOFFATT & NICHOL
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1547 SHARON RHUE
3/2/2025
A28861EAA-NC-REGISTERED LANDSCAPE ARCHITECT

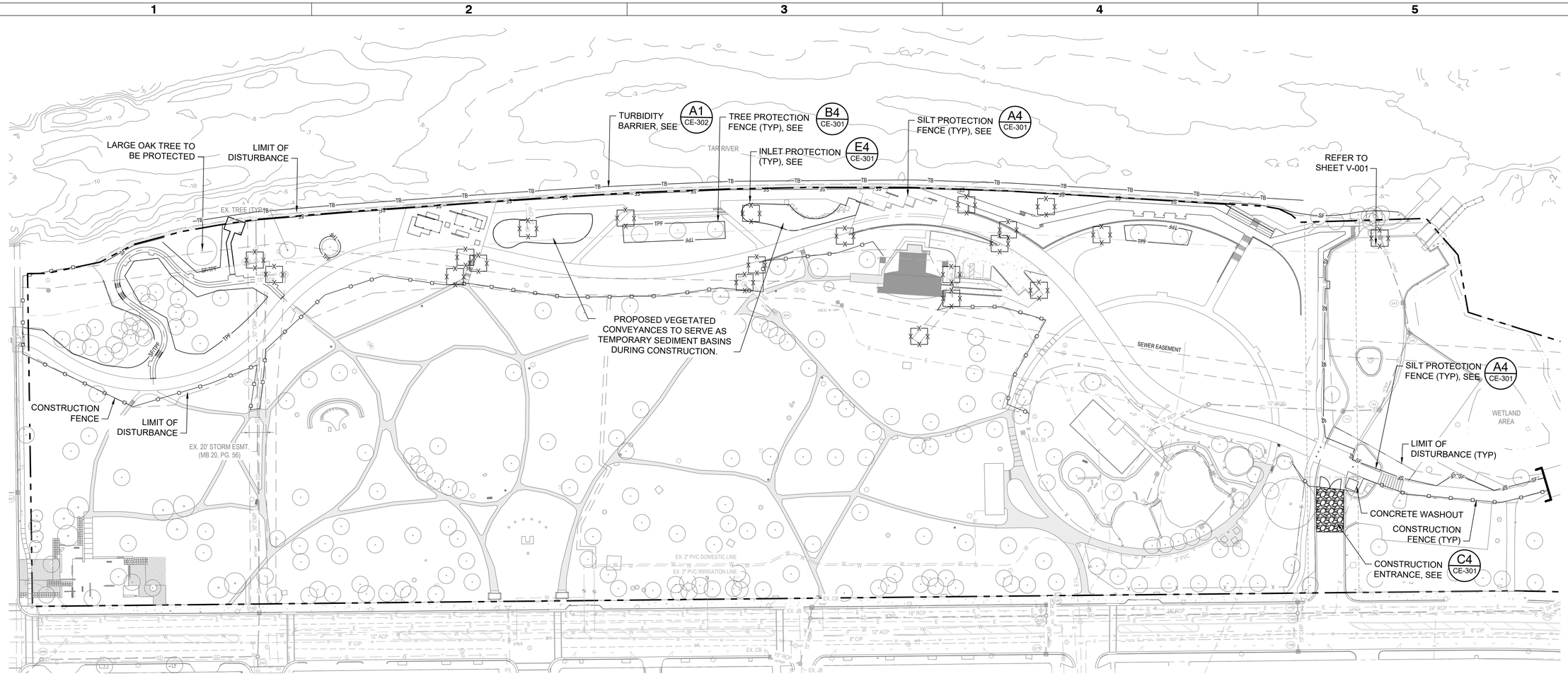
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Sheet Reference No.
CE101
INDEX: 27 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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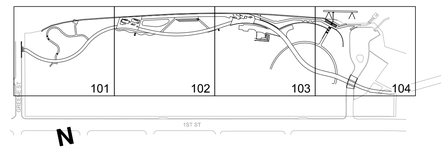


EROSION CONTROL LEGEND:

- SF — SILT FENCE
- TPF — TREE PROTECTION
- TB — TURBIDITY BARRIER
- INLET PROTECTION
- CONSTRUCTION FENCE / LIMITS OF DISTURBANCE

CONSTRUCTION TO BE PHASED:

FORTHCOMING CONSTRUCTION LOGISTICS PLAN TO BE DEVELOPED IN COORDINATION WITH CITY OF GREENVILLE RECREATION & PARKS. EROSION CONTROL PLAN WILL LIKELY BE PHASED IN ACCORDANCE WITH CONSTRUCTION LOGISTICS PLAN.



N

N

60' 0' 60' 120'

SCALE: 1"=60'

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
A	65% CD FOR INTERNAL REVIEW	06/21/24	SKR
0	ISSUED FOR BID	2025-02-07	
1	ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

POST EROSION CONTROL PLAN

Designed by: SR	Date: 02/07/2025	Rev.	
Drawn by: SR	Qual by: MS	M&N Project No. 221315-02	
Reviewed by: SR		Drawing code:	
Submitted by: MARK SELLO MOFFATT & NICHOL		Drawing Scale: AS SHOWN Plot scale: 1:1 (D SHEET)	

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SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049161 SIGNATURE MARK ALAN TREW
Signed by: Mark Trew
5/5/2025

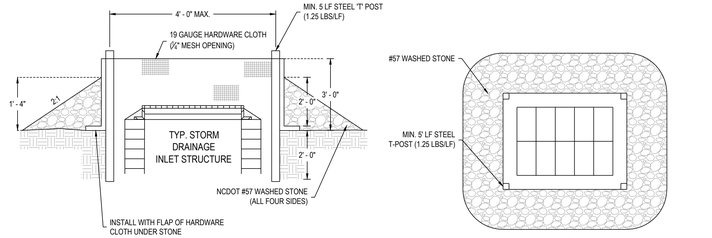
SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SIGNATURE SHARON RHUE
Sharon Rhue
A28881EA4A0B4E5...
5/5/2025

Sheet Reference No.
CE102
INDEX: 28 OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

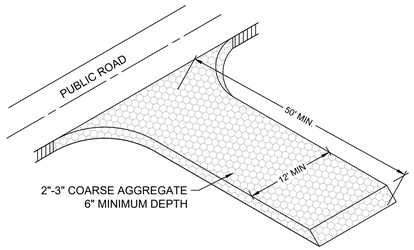
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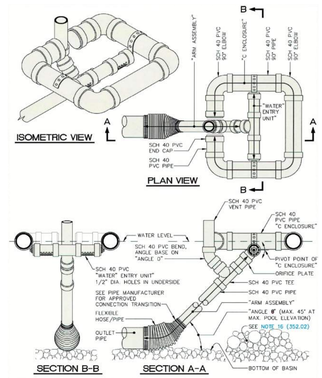


NOTE
TOP OF INLET STRUCTURE MUST BE 12" LOWER THAN DOWN SLOPE, GROUND ELEVATION OR INSTALL TEMPORARY DIKE BELOW STRUCTURE TO PREVENT BYPASS FLOW.

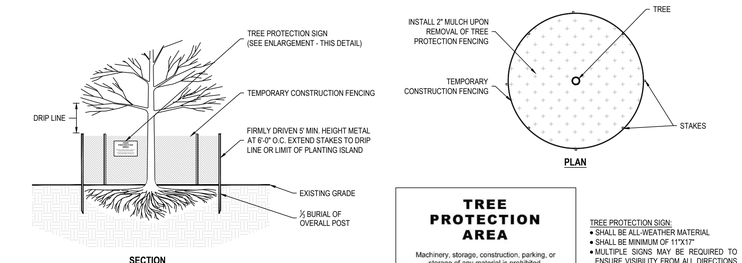
E4 / CE-301 — INLET PROTECT (HARDWARE CLOTH & GRAVEL)
SCALE: NTS



C4 / CE-301 — CONSTRUCTION ENTRANCE
SCALE: NTS



C5 / CE-301 — SKIMMER DETAIL
SCALE: NTS



TREE PROTECTION AREA

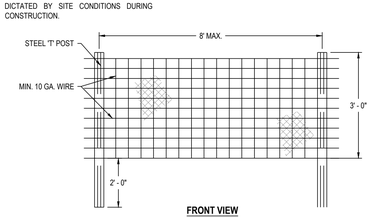
Machinery, storage, construction, parking, or storage of any material is prohibited.

Protective tree fencing is required on this jobsite for the duration of construction.

TREE PROTECTION SIGN:
- SHALL BE ALL-WEATHER MATERIAL
- SHALL BE MINIMUM OF 11"X17"
- MULTIPLE SIGNS MAY BE REQUIRED TO ENSURE VISIBILITY FROM ALL DIRECTIONS OF TREE PROTECTION ZONE

B4 / CE-301 — TREE PROTECTION FENCE
SCALE: NTS

NOTE:
SEE SHEETS CE101 AND CE102. ENGINEER MAY REQUIRE ADDITIONAL SILT FENCE AS DICTATED BY SITE CONDITIONS DURING CONSTRUCTION.



A4 / CE-301 — SILT FENCE
SCALE: NTS

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ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

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A.	60% CD FOR INTERNAL REVIEW	05/21/24	SKR
0	ISSUED FOR BID	2025-02-07	
1	ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

EROSION CONTROL DETAILS

Designed by: SR
Drawn by: SR
Checked by: MATTHEW CELLO
Date: 02/07/2025
M&N Project No.: 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Rev.

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NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 049813 ENGINEER ALAN TRIPP
Signed by: Alan Tripp
9/19/2025

SEAL

Sheet Reference No.
CE301
INDEX: 29 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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MATERIALS:

1. TURBIDITY CURTAIN BARRIERS SHALL BE ORANGE IN COLOR IN ORDER TO ATTRACT THE ATTENTION OF NEARBY BOATERS.
2. THE TURBIDITY CURTAIN FABRIC SHALL MEET THE MINIMUM REQUIREMENTS NOTED IN TABLE 1 ON THIS DRAWING.
3. SEAMS IN THE TURBIDITY CURTAIN FABRIC SHALL BE EITHER VULCANIZE WELDED OR SEWN, AND SHALL DEVELOP THE FULL STRENGTH OF THE FABRIC.
4. FLOATATION DEVICES SHALL BE FLEXIBLE, BUOYANT UNITS CONTAINED IN AN INDIVIDUAL FLOTATION SLEEVE OR COLLAR ATTACHED TO THE CURTAIN. BUOYANCY PROVIDED BY THE FLOATATION UNITS SHALL BE SUFFICIENT TO SUPPORT THE WEIGHT OF THE CURRENT AND MAINTAIN A FREEBOARD OF AT LEAST 3 INCHES ABOVE THE WATER SURFACE LEVEL AS INDICATED IN THE TURBIDITY CURTAIN DETAIL ON THIS DRAWING.
5. LOAD LINES MUST BE FABRICATED INTO THE TOP AND BOTTOM OF ALL FLOATING TURBIDITY CURTAINS. THE TOP LOAD LINE SHALL CONSIST OF WOVEN WEBBING OR VINYL-SHEATHED STEEL CABLE AND SHALL HAVE A BREAK STRENGTH IN EXCESS OF 10,000 POUNDS. THE SUPPLEMENTAL (BOTTOM) LOAD LINE SHALL CONSIST OF A CHAIN INCORPORATED INTO THE BOTTOM HEM OF THE CURTAIN OF SUFFICIENT WEIGHT TO SERVE AS BALLAST TO HOLD THE CURTAIN IN A VERTICAL POSITION. ADDITIONAL ANCHORAGE SHALL BE PROVIDED AS NECESSARY. THE LOAD LINES SHALL HAVE SUITABLE CONNECTING DEVICES WHICH DEVELOP THE FULL BREAKING STRENGTH FOR CONNECTING TO LOAD LINES IN ADJACENT SECTIONS (SEE TURBIDITY CURTAIN DETAIL ON THIS DRAWING).
6. BOTTOM ANCHORS ARE REQUIRED. BOTTOM ANCHORS MUST BE SUFFICIENT TO HOLD THE CURTAIN IN THE SAME POSITION RELATIVE TO THE BOTTOM OF THE WATERCOURSE WITHOUT INTERFERING WITH THE ACTION OF THE CURTAIN. THE ANCHOR MAY DIG INTO THE BOTTOM (GRAPPLING HOOK, PLOW, OR FLUKE TYPE) OR MAY BE WEIGHTED (MUSHROOM TYPE), AND SHOULD BE ATTACHED TO A FLOATING ANCHOR BUOY VIA AN ANCHOR LINE. THE ANCHOR LINE WOULD THEN RUN FROM THE BUOY TO THE TOP LOAD LINE OF THE CURTAIN. THESE LINES MUST CONTAIN ENOUGH SLACK TO ALLOW THE BUOY AND CURTAIN TO FLOAT FREELY WITH A WATER SURFACE ELEVATION INCREASE FROM THE MEAN LOWER LOW WATER (MLLW) ELEVATION TO THE MEAN HIGHER HIGH WATER (MHHW) ELEVATION WITHOUT PULLING THE BUOY OR CURTAIN DOWN. THESE LINES MUST BE CHECKED REGULARLY TO MAKE SURE THEY DO NOT BECOME ENTANGLED WITH DEBRIS. ANCHOR SPACING WILL VARY WITH CURRENT VELOCITY AND POTENTIAL WIND AND WAVE ACTION, THEREFORE THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED. SEE ORIENTATION OF EXTERNAL ANCHORS AND ANCHOR BUOYS AS SHOWN IN FIGURE 1 ON THIS DRAWING FOR INSTALLATION.

INSTALLATION:

1. THE CURTAIN SHOULD NOT TOUCH THE BOTTOM UNDER STANDARD CONDITIONS. A MINIMUM 1 FOOT "GAP" SHOULD EXIST BETWEEN THE WEIGHTED LOWER END OF THE SKIRT AND THE BOTTOM AT MLLW. MOVEMENT OF THE LOWER SKIRT OVER THE BOTTOM DUE TO CURRENT OR ELEVATION FLUCTUATION ON THE FLOTATION SYSTEM MAY FAN AND STIR SEDIMENTS ALREADY SETTLED OUT.
2. TURBIDITY CURTAINS SHOULD BE LOCATED PARALLEL TO THE DIRECTION OF FLOW OF A MOVING BODY OF WATER. TURBIDITY CURTAIN SHOULD NOT BE PLACED ACROSS THE MAIN FLOW OF A SIGNIFICANT BODY OF MOVING WATER.
3. WHEN SIZING THE LENGTH OF A FLOATING CURTAIN, ALLOW AN ADDITIONAL 10 TO 20 PERCENT VARIANCE TO STRAIGHT LINE MEASUREMENTS. THIS WILL ALLOW FOR MEASURING ERRORS, MAKE INSTALLING EASIER AND REDUCE STRESS FROM POTENTIAL WAVE ACTION DURING HIGH WINDS.
4. AN ATTEMPT SHOULD BE MADE TO AVOID AN EXCESSIVE AMOUNT OF JOINTS IN THE CURTAIN. A MINIMUM CONTINUOUS SPAN OF 50 FEET BETWEEN JOINTS IS REQUIRED.
5. FOR STABILITY REASONS, A MAXIMUM SPAN OF 100 FEET BETWEEN JOINTS (ANCHOR OR STAKE LOCATIONS) IS REQUIRED. IF SPACINGS EXCEEDING THIS ARE ALLOWED BY THE MANUFACTURER, DATA SHALL BE SUBMITTED FOR REVIEW.
6. THE ENDS OF THE CURTAIN (BOTH FLOATING UPPER AND WEIGHTED LOWER) SHOULD EXTEND WELL UNDER THE EXISTING STRUCTURE TO BE REMOVED. THE ENDS SHOULD BE SECURED FIRMLY TO FULLY ENCLOSE THE AREA WHERE SEDIMENT MAY ENTER THE WATER.
7. TYPICAL ALIGNMENTS OF TURBIDITY CURTAINS CAN BE SEEN IN FIGURE 2 ON THIS DRAWING. THE NUMBER AND SPACING OF EXTERNAL ANCHORS MAY VARY DEPENDING ON CURRENT VELOCITIES AND POTENTIAL WIND AND WAKE ACTION. THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.
8. IN RIVERS OR IN OTHER MOVING WATER, IT IS IMPORTANT TO SET ALL THE CURTAIN ANCHOR POINTS. CARE MUST BE TAKEN TO ENSURE THAT ANCHOR POINTS ARE OF SUFFICIENT HOLDING POWER TO RETAIN THE CURTAIN UNDER THE EXISTING CURRENT CONDITIONS, PRIOR TO PUTTING THE FURLED CURTAIN INTO THE WATER. AGAIN, ANCHOR BUOYS SHOULD BE EMPLOYED ON ALL ANCHORS TO PREVENT THE CURRENT FROM SUBMERGING THE FLOTATION AT THE ANCHOR POINTS.
9. WHEN THE ANCHORS ARE SECURE, THE FURLED CURTAIN SHOULD BE SECURED TO THE UPSTREAM ANCHOR POINT AND THEN SEQUENTIALLY ATTACHED TO EACH NEXT DOWNSTREAM ANCHOR POINT UNTIL THE ENTIRE CURTAIN IS IN POSITION. AT THIS POINT, AND BEFORE UNFURLING, THE "LAY" OF THE CURTAIN SHOULD BE ASSESSED AND ANY NECESSARY ADJUSTMENTS MADE TO THE ANCHORS. FINALLY, WHEN THE LOCATION IS ASCERTAINED TO BE AS DESIRED, THE FURLING LINES SHOULD BE CUT TO ALLOW THE SKIRT TO DROP.
10. ALWAYS ATTACH ANCHOR LINES TO THE FLOATATION DEVICE, NOT TO THE BOTTOM OF THE CURTAIN. THE ANCHORING LINE ATTACHED TO THE FLOATATION DEVICE ON THE DOWNSTREAM SIDE WILL PROVIDE SUPPORT FOR THE CURTAIN. ATTACHING THE ANCHORS TO THE BOTTOM OF THE CURTAIN COULD CAUSE PREMATURE FAILURE OF THE CURTAIN DUE TO THE STRESSES IMPARTED ON THE MIDDLE SECTION OF THE CURTAIN.

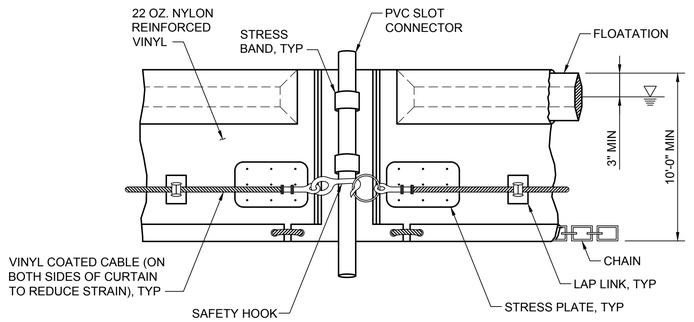
REMOVAL:

1. CARE SHOULD BE TAKEN TO PROTECT THE SKIRT FROM DAMAGE AS THE TURBIDITY CURTAIN IS DRAGGED FROM THE WATER.
2. IF THE CURTAIN IS TO BE REUSED AT THE SITE, THE AREA SELECTED TO BRING THE CURTAIN ASHORE SHOULD BE FREE OF SHARP ROCKS, BROKEN CEMENT, DEBRIS, ETC SO AS TO MINIMIZE DAMAGE WHEN HAULING THE CURTAIN. ANY DAMAGE TO THE CURTAIN SHALL BE REPAIRED AS SPECIFIED.
3. IF THE CURTAIN HAS A DEEP SKIRT, IT CAN BE FURTHER PROTECTED BY RUNNING A SMALL BOAT ALONG ITS LENGTH WITH A CREW INSTALLING FURLING LINES BEFORE ATTEMPTING TO REMOVE THE CURTAIN FROM THE WATER.

MAINTENANCE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE TURBIDITY CURTAIN FOR THE DURATION OF THE PROJECT IN ORDER TO ENSURE THE CONTINUOUS PROTECTION OF THE WATERWAY.
2. SHOULD REPAIRS TO THE GEOTEXTILE FABRIC BECOME NECESSARY, REPAIR KITS AVAILABLE FROM THE ORIGINAL MANUFACTURER SHALL BE USED. MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED TO ENSURE THE ADEQUACY OF THE REPAIR.
3. WHEN THE CURTAIN IS NO LONGER REQUIRED, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED IN SUCH A MANNER AS TO MINIMIZE TURBIDITY. REMAINING SEDIMENT SHALL BE SUFFICIENTLY SETTLED BEFORE REMOVING THE CURTAIN.

TABLE 1 - FABRIC PROPERTIES	
PHYSICAL PROPERTY	REQUIREMENT
THICKNESS (MILS)	45
WEIGHT (OZ./SY)	22
TENSILE STRENGTH (LB)	300
UV INHIBITOR	REQUIRED



TURBIDITY CURTAIN DETAIL

NOTE:
ANCHORING WITH BUOYS, AS SHOWN, REMOVES ALL VERTICAL FORCES FROM THE CURTAIN. HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS. FINAL CONFIGURATION AND DETAILS AS RECOMMENDED BY MANUFACTURER.

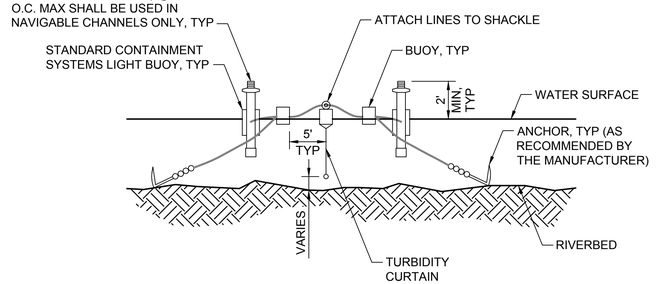
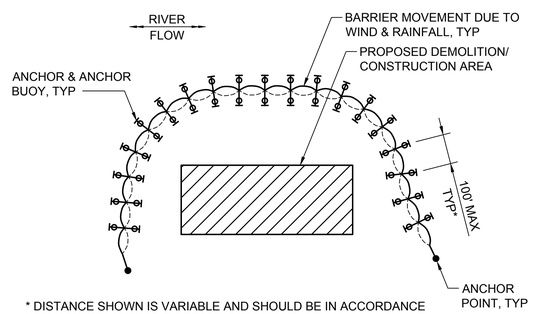


FIGURE 1 - SECTION



* DISTANCE SHOWN IS VARIABLE AND SHOULD BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

FIGURE 2 - PLAN

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TURBIDITY CURTAIN NOTES & DETAILS

Rev. 1
Date: 2025-02-07
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: J. SWYERS
Drawn by: VNM
Det'd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO MOFFATT & NICHOL

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NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
4/28/2025

SEAL

Sheet Reference No.
CE302
INDEX: 30 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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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' 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 • 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

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.

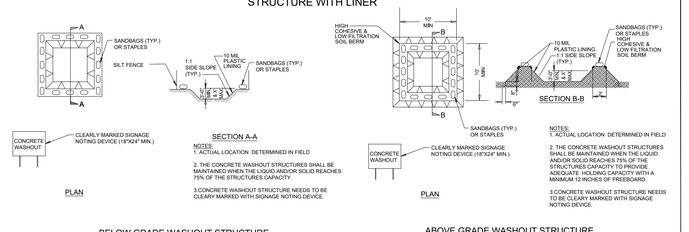
PORTABLE TOILETS

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, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
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.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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.

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.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

No.	Mark	Description	Date	Appr.
A.	0	ISSUED FOR BID	2025-02-07	
	1	ADDENDUM NO. 1	2025-02-26	
		60% CD FOR INTERNAL REVIEW	06/21/24	SJR

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GROUND STABILIZATION AND MATERIALS HANDLING

Date: 02/07/2025 | Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (1/2 SHEET)

Designed by: SR | Cad by: MS
Drawn by: SR | Reviewed by: SR
Submitted by: MARK PERELLO, MOFFATT & NICHOL

moffatt & nichol
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NC FIRM LICENSE NO.: F-0105

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NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL Signed by: Mark Perello Engineering Technology PROFESSIONAL ENGINEER
9/9/2025
SEAL

SEAL

Sheet Reference No.
CE303
INDEX: 31 OF 107

File: K:\01_Projects\Greenville, City of\2022\2217 M&N COG Town Com Bulkhead\wp3 Construction Plans\SHEETS\LA Sheet Set\20222217_CE101_EROS_POST - Plotted: 2/27/2025 5:46 PM by ANDREW.HARRELL

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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 or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and 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 of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 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 a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(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 an 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	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be 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 Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated 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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

$	Mark	Description	Date	Appr.
	1	ADDENDUM NO. 1	2025-04-28	
	0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SELF-INSPECTION, RECORDKEEPING AND REPORTING NOTES

Date: 02/07/2025 | Rev.
Designed by: SR | Det'd by: MS
Drawn by: SR | Checked by: JMC
Reviewed by: SR | Submitted by: MARK PORCELLO, MOFFATT & NICHOL
Drawing code: | Drawing Scale: AS SHOWN
M&N Project No. 221315-02 | Plot scale: 1:1 (1D SHEET)

moffatt & nichol
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919-781-4626
NC FIRM LICENSE NO. F-0105

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324 EVANS ST
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0209
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL Signed by: TODD ALAN TRIPP Registered Professional Engineer 9/9/2025
SEAL

SEAL

Sheet Reference No.
CE304
INDEX: 32 OF 114

File: K:\01_Projects\Greenville, City of\2022\22217 M&N COG Town Com Bulkhead\dwg\3 Construction Plans\SHEET\SLA Sheet Set\20222217_CE101_EROS_POST - Plotted: 2/27/2025 5:46 PM by ANDREW.HARRELL

Saved: 2/27/2025 3:58 PM by ANDREW.HARRELL

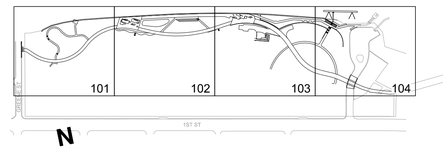
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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GRADING NOTES

1. ALL VEGETATION AND TOPSOIL SHALL BE STRIPPED FROM FILL AREAS PRIOR TO PLACING FILL. ANY QUESTIONABLE OR UNSUITABLE SOIL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. AFTER STRIPPING TOPSOIL AND PRIOR TO PLACING FILL, IT IS RECOMMENDED THAT ALL BUILDING, PARKING AND DRIVEWAY AREAS BE ROLLED WITH A VIBRATORY ROLLER TO CONSOLIDATE LOOSE SOILS IN THE UPPER SUBGRADE. COMPACTION TEST RESULTS OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY WILL BE REQUIRED PRIOR TO ENGINEER'S APPROVAL FOR FILL PLACEMENT.
3. CONTRACTOR SHALL CONTACT THE ENGINEER AND SCHEDULE A PROOF ROLL FOR SUBGRADE AND WHEN AGGREGATE BASE COURSE HAS BEEN INSTALLED. ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
4. ALL CULVERT CLEANOUT MUST BE DONE SUCH THAT THE SEDIMENT IS EITHER EXTRACTED OR BLOWN UPSTREAM FOR CLEANUP. UNDER NO CIRCUMSTANCES SHALL SEDIMENT BE BLOWN DOWNSTREAM.
5. GRADING CONTRACTOR SHALL TEMPORARY SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS WITHIN 14 DAYS OF COMPLETION OF GRADING WORK. UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INSTALL PERMANENT SEEDING AS OUTLINED IN THE SPECIFICATIONS. ALL DRAINAGE PIPES SHALL BE CLEANED BY THE GENERAL CONTRACTOR TO REMOVE ANY SEDIMENTS THAT HAVE ACCUMULATED.
6. ALL EXCESS TOPSOIL STRIP MATERIAL TO BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED SITE.
7. ALL PLANTING AREAS SHALL BE BACKFILLED WITH TOPSOIL & RAKED DOWN, REMOVING ALL CLODS AND ROOTS, AND LEFT READY FOR SEEDING & PLANTING.
8. ALL DEWATERING OPERATIONS SHALL BE FILTERED PRIOR TO LEAVING THE SITE.
9. CONTRACTOR TO CONTACT GUC (252-551-1551) TO SCHEDULE INSPECTION OF ALL STORM PIPE / SEWER MAIN CROSSINGS.



N

N

60' 0' 60' 120'

SCALE: 1"=60'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
A	60% CD FOR INTERNAL REVIEW		SR
0	ISSUED FOR BID	2025-02-07	
1	ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

OVERALL GRADING & DRAINAGE PLAN

Designed by: SR
Drawn by: SR
Submitted by: MARK MORELLO
Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Reviewed by: SR
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
MOFFATT & NICHOL

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NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 039852 ENGINEER FRED A. TRIPP
Signed by: Fred Tripp
SEAL 3/3/2025

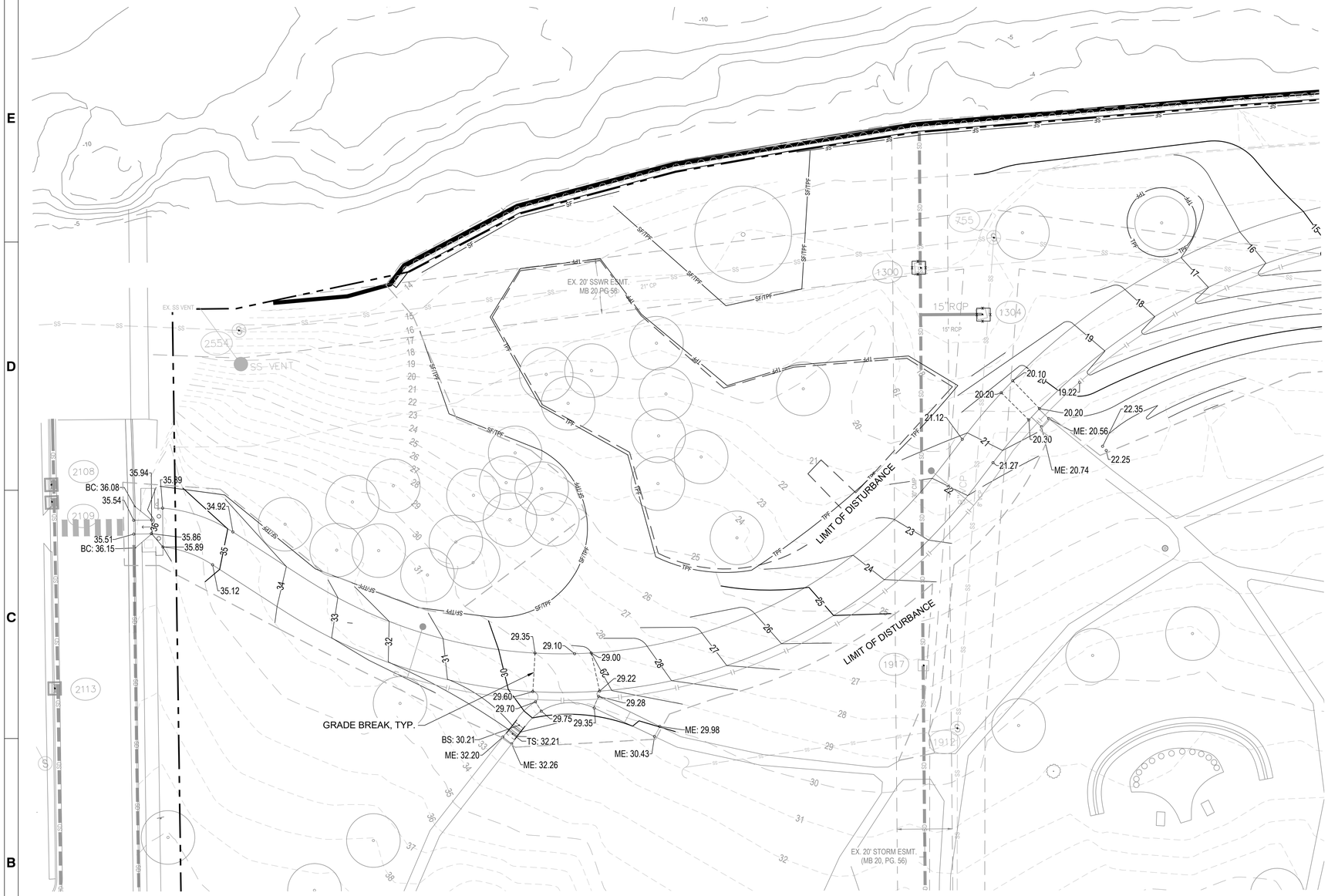
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RAY HAMM
Signed by: Sharon Ray
SEAL 3/3/2025

Sheet Reference No.
CG100
INDEX: 33 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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STORM SYSTEM DATA						
INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.75	4.61%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.76%	3	10"	HDPE	21.12
15.00	10.21	9.80%	4	12"	RCP	48.90
10.21	7.38	4.00%	5	15"	RCP	70.66
5.84	0.50	13.65%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	266.24
13.00	12.75	1.12%	8	4"	HDPE	22.37
13.00	12.75	1.17%	9	6"	HDPE	21.40
12.15	9.16	4.86%	10	15"	RCP	61.61
17.46	14.15	12.65%	11	15"	RCP	26.14
13.25	13.10	0.58%	12	12"	RCP	25.71
13.05	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.69%	14	6"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.64%	16	12"	HDPE	60.85
16.71	16.22	1.78%	17	12"	HDPE	27.77
16.22	13.71	3.67%	18	15"	RCP	68.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.56	10.64	9.20%	20	15"	RCP	20.88
7.64	5.38	4.35%	21	15"	RCP	51.97
7.50	5.38	3.00%	22	12"	RCP	70.58
18.02	10.50	8.00%	23	10"	HDPE	94.05
23.18	22.25	2.73%	24	8"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	2.85%	26	8"	HDPE	17.56

STORM STRUCTURE TABLE				
STRUCTURE	RIM EL	STRUCTURE IN	INVERT 1N	INVERT OUT
DI-1	20.50			15.00
DI-2	15.00	DI-1 YI-1	10.21 10.21 13.17	10.21
DI-4	18.40	DI-5	14.15	12.15
DI-5	21.50			17.46
DI-6	15.00			13.25
DI-7	22.00			17.71
DI-8	22.25	DI-7	16.71	16.71
DI-9	21.79	DI-8	16.22	16.22
DI-10	18.25	DI-9 YI-6	13.71 13.71	12.56
DI-11	17.88	DI-10	10.64	7.64
DI-12	18.98	YI-2	10.50	7.50
DI-13	8.85	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	13.00	DI-4	9.16	9.16
OUTLET STRUCTURE-2	12.75	DI-2 OUTLET STRUCTURE-1	7.38 7.84	5.84
YI-1	15.00			11.00
YI-2	22.60			18.02
YI-3	25.80			23.18
YI-4	13.50		10.00	8.00
YI-5	14.60		12.75	
YI-6	18.15			14.40
YI-7	13.85	YI-4	7.50	7.50

GRADING LEGEND

BC	BACK OF CURB	JB	JUNCTION BOX	x 26.00	EX. SPOT ELEVATION
BS	BOTTOM OF STAIR	LF	LINEAR FEET	26	EXISTING CONTOUR
BW	BOTTOM OF WALL	LP	LOW POINT	SD	EX. STORM DRAIN
CB	CATCH BASIN	M.E.	MATCH EXISTING		PROPOSED STORM PIPE
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE	X	SILT FENCE
C.T.	CURB TAPER				LIMITS OF DISTURBANCE
EP	EDGE OF PAVEMENT	TA	TOP OF ASPHALT	26	PROPOSED CONTOUR
EX.	EXISTING	TC	TOP OF CONCRETE	RD	PROPOSED ROOF DRAIN
FE	FINISHED ELEVATION	TS	TOP OF STAIR	X X X X	INLET PROTECTION
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK		
FL	FLOW LINE	TW	TOP OF WALL		
FOCB	FIBER OPTIC CABLE BOX	TYP.	TYPICAL		GRADE BREAK
HP	HIGH POINT (OF SWALE, TYP)	YI	YARD INLET	TPF	TREE PROTECTION FENCE
INV.	INVERT				

NOTE

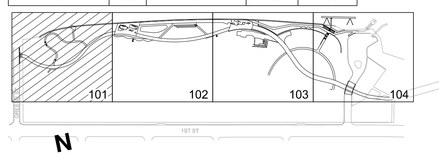
REFER TO SHEET CG100 FOR GRADING NOTES

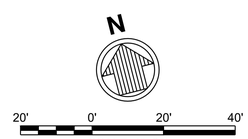
EXISTING STORM DRAINAGE STRUCTURE TABLE

- 1917 — DI TOP = 26.9 ± / THROAT INLET = 26.21 / INV = 17.71
- 2113 — CB HOOD = 37.04 / INV = 33.44
- 2108 — CB HOOD = 34.79 / INV = 31.03
- 1300 — DI TOP = 16.11 / THROAT INLET = 15.19 / INV = 6.49
- 2109 — CB HOOD = 34.88 / INV = 31.33
- 1304 — DI TOP = 16.8 ± / THROAT INLET = 15.97 / INV = 13.12

EXISTING SANITARY SEWER STRUCTURE TABLE

- 1912 — SSMH TOP = 28.99 / N/S INV = 20.74 / W INV = 23.19
- 2554 — SSMH TOP = 17.22 / INV = 9.02
- 755 — SSMH TOP = 17.08 / INV INACCESSIBLE





ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Aver.
A	60% CD FOR INTERNAL REVIEW	06/27/24	SKR
0	ISSUED FOR BID	2025-02-07	
1	ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (WEST)

Designed by: SR | Date: 02/07/2025 | Rev:
Drawn by: SR | Cad by: MS | M&N Project No. 221315-02
Reviewed by: SR | Drawing code:
Submitted by: MOFFATT & NICHOL | Plot scale: 1:1 (D SHEET) | Drawing Scale: AS SHOWN

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering • Surveying • Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL — NORTH CAROLINA PROFESSIONAL SEAL — Signed by: Todd Tripp — 9/2/2025

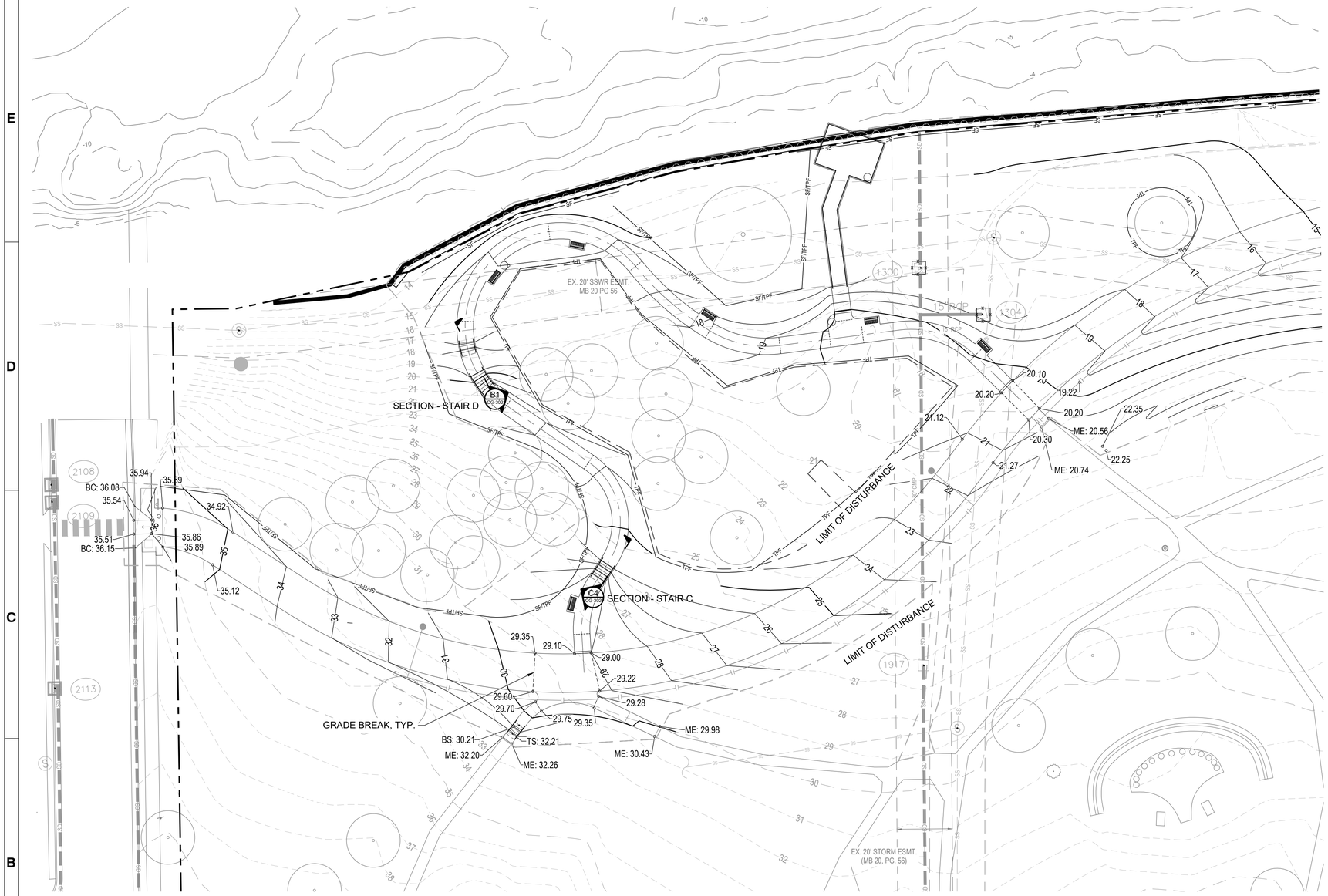
SEAL — NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT — SHARON RAU — 9/2/2025

Sheet Reference No.
CG101
INDEX: 34 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



GRADING PLAN FOR ADDITIVE BID 2

STORM SYSTEM DATA						
INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.75	4.61%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.76%	3	10"	HDPE	21.12
15.00	10.21	9.80%	4	12"	RCP	48.90
10.21	7.38	4.00%	5	15"	RCP	70.66
5.84	0.50	13.65%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	266.24
13.00	12.75	1.12%	8	4"	HDPE	22.37
13.00	12.75	1.17%	9	6"	HDPE	21.40
12.15	9.16	4.86%	10	15"	RCP	61.61
17.46	14.15	12.65%	11	15"	RCP	26.14
13.25	13.10	0.58%	12	12"	RCP	25.71
13.05	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.69%	14	6"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.64%	16	12"	HDPE	60.85
16.71	16.22	1.78%	17	12"	HDPE	27.77
16.22	13.71	3.67%	18	15"	RCP	68.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.56	10.64	9.20%	20	15"	RCP	20.88
7.64	5.38	4.35%	21	15"	RCP	51.97
7.50	5.38	3.00%	22	12"	RCP	70.58
18.02	10.50	8.00%	23	10"	HDPE	94.05
23.18	22.25	2.73%	24	8"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	2.85%	26	8"	HDPE	17.56

STORM STRUCTURE TABLE				
STRUCTURE	RIM EL	STRUCTURE IN	INVERT 1N	INVERT OUT
DI-1	20.50			15.00
DI-2	15.00	DI-1 YI-1	10.21 10.21 13.17	10.21
DI-4	18.40	DI-5	14.15	12.15
DI-5	21.50			17.46
DI-6	15.00			13.25
DI-7	22.00			17.71
DI-8	22.25	DI-7	16.71	16.71
DI-9	21.79	DI-8	16.22	16.22
DI-10	18.25	DI-9 YI-6	13.71 13.71	12.56
DI-11	17.88	DI-10	10.64	7.64
DI-12	18.98	YI-2	10.50	7.50
DI-13	8.85	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	13.00	DI-4	9.16	9.16
OUTLET STRUCTURE-2	12.75	DI-2 OUTLET STRUCTURE-1	7.38 7.84	5.84
YI-1	15.00			11.00
YI-2	22.60			18.02
YI-3	25.80			23.18
YI-4	13.50		10.00	8.00
YI-5	14.60		12.75	
YI-6	18.15			14.40
YI-7	13.85	YI-4	7.50	7.50

GRADING LEGEND

BC	BACK OF CURB	JB	JUNCTION BOX	x 26.00	EX. SPOT ELEVATION
BS	BOTTOM OF STAIR	LF	LINEAR FEET	26	EXISTING CONTOUR
BW	BOTTOM OF WALL	LP	LOW POINT	SD	EX. STORM DRAIN
CB	CATCH BASIN	M.E.	MATCH EXISTING		PROPOSED STORM PIPE
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE	X	SILT FENCE
C.T.	CURB TAPER				LIMITS OF DISTURBANCE
EP	EDGE OF PAVEMENT	TA	TOP OF ASPHALT	26	PROPOSED CONTOUR
EX.	EXISTING	TC	TOP OF CONCRETE	RD	PROPOSED ROOF DRAIN
FE	FINISHED ELEVATION	TS	TOP OF STAIR	X X X X	INLET PROTECTION
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK		
FL	FLOW LINE	TW	TOP OF WALL		
FOCB	FIBER OPTIC CABLE BOX	TYP.	TYPICAL		GRADE BREAK
HP	HIGH POINT (OF SWALE, TYP)	YI	YARD INLET	TPF	TREE PROTECTION FENCE
INV.	INVERT				

NOTE

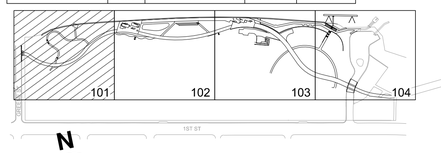
REFER TO SHEET CG100 FOR GRADING NOTES

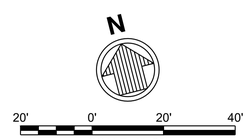
EXISTING STORM DRAINAGE STRUCTURE TABLE

- 1917 — DI TOP = 26.9 ± THROAT INLET = 26.21 INV = 17.71
- 2108 — CB HOOD = 34.79 INV = 31.03
- 2109 — CB HOOD = 34.88 INV = 31.33
- 2113 — CB HOOD = 37.04 INV = 33.44
- 1300 — DI TOP = 16.11 THROAT INLET = 15.19 INV = 6.49
- 1304 — DI TOP = 16.8 ± THROAT INLET = 15.97 INV = 13.12

EXISTING SANITARY SEWER STRUCTURE TABLE

- 1912 — SSMH TOP = 28.99 N/S INV = 20.74 W INV = 23.19
- 2554 — SSMH TOP = 17.22 INV = 9.02
- 755 — SSMH TOP = 17.08 INV INACCESSIBLE





ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

A.	60% CD FOR INTERNAL REVIEW	SR	06/21/24
1	ADDENDUM NO. 1		2025-02-26
0	ISSUED FOR BID		2025-02-07
Mark	Description	Date	Appr.

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (WEST) - ALTERNATE A

Designed by: SR | Date: 02/07/2025 | Rev.
Dwn by: SR | Ckd by: MS | M&N Project No. 221315-02
Reviewed by: SR | Drawing code:
Submitted by: MOFFATT & NICHOL | Plot scale: 1:1 (D SHEET) | Drawing Scale: AS SHOWN

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
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NC FIRM LICENSE NO. F-0105

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Engineering • Surveying • Technology
324 EVANS ST.
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL — NORTH CAROLINA PROFESSIONAL SEAL — Signed by: Todd Tripp — 9/2/2025

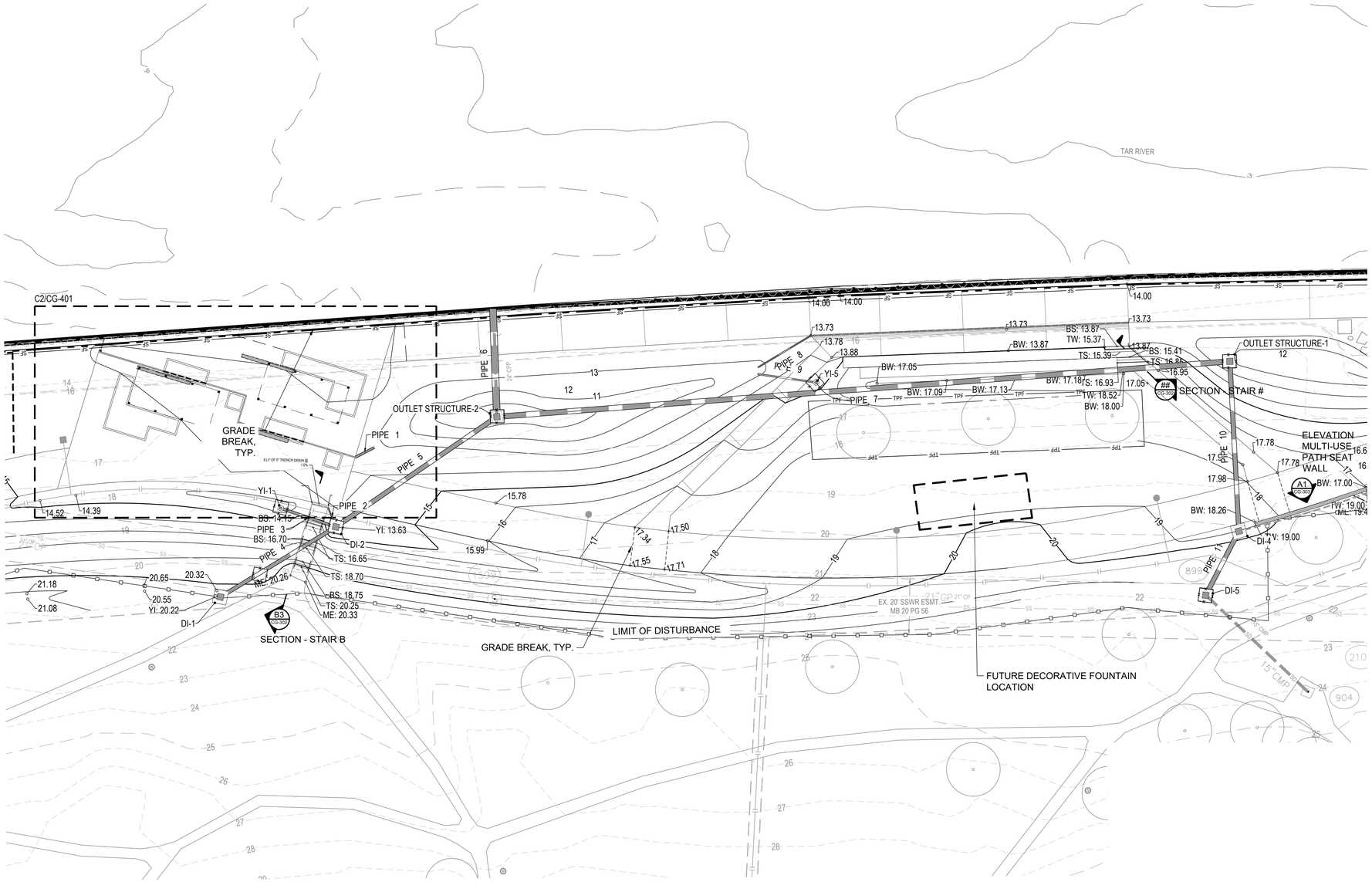
SEAL — NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT — 1840 — Sharon Rew — SHARON RAE REW — 9/2/2025

Sheet Reference No.
CG101A
INDEX: 34A OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



STORM SYSTEM DATA						
INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.75	4.61%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.76%	3	10"	HDPE	21.12
15.00	10.21	9.80%	4	12"	RCP	48.90
10.21	7.38	4.00%	5	15"	RCP	70.66
5.84	0.50	13.65%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	266.24
13.00	12.75	1.12%	8	4"	HDPE	22.37
13.00	12.75	1.17%	9	6"	HDPE	21.40
12.15	9.16	4.86%	10	15"	RCP	61.61
17.46	14.15	12.65%	11	15"	RCP	26.14
13.25	13.10	0.58%	12	12"	RCP	25.71
13.05	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.69%	14	6"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.64%	16	12"	HDPE	60.85
16.71	16.22	1.78%	17	12"	HDPE	27.77
16.22	13.71	3.67%	18	15"	RCP	68.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.56	10.64	9.20%	20	15"	RCP	20.88
7.64	5.38	4.35%	21	15"	RCP	51.97
7.50	5.38	3.00%	22	12"	RCP	70.58
18.02	10.50	8.00%	23	10"	HDPE	94.05
23.18	22.25	2.73%	24	8"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	2.85%	26	8"	HDPE	17.56

STORM STRUCTURE TABLE				
STRUCTURE	RIM EL	STRUCTURE IN	INVERT 1N	INVERT OUT
DI-1	20.50			15.00
DI-2	15.00	DI-1 YI-1	10.21 10.21 13.17	10.21
DI-4	18.40	DI-5	14.15	12.15
DI-5	21.50			17.46
DI-6	15.00			13.25
DI-7	22.00			17.71
DI-8	22.25	DI-7	16.71	16.71
DI-9	21.79	DI-8	16.22	16.22
DI-10	18.25	DI-9 YI-6	13.71 13.71	12.56
DI-11	17.88	DI-10	10.64	7.64
DI-12	18.98	YI-2	10.50	7.50
DI-13	8.85	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	13.00	DI-4	9.16	9.16
OUTLET STRUCTURE-2	12.75	DI-2 OUTLET STRUCTURE-1	7.38 7.84	5.84
YI-1	15.00			11.00
YI-2	22.60			18.02
YI-3	25.80			23.18
YI-4	13.50		10.00	8.00
YI-5	14.60		12.75	
YI-6	18.15			14.40
YI-7	13.85	YI-4	7.50	7.50

GRADING LEGEND

BC	BACK OF CURB	JB	JUNCTION BOX	x 26.00	EX. SPOT ELEVATION
BS	BOTTOM OF STAIR	LF	LINEAR FEET	26	EXISTING CONTOUR
BW	BOTTOM OF WALL	LP	LOW POINT	SD	EX. STORM DRAIN
CB	CATCH BASIN	M.E.	MATCH EXISTING		PROPOSED STORM PIPE
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE	X	SILT FENCE
C.T.	CURB TAPER				LIMITS OF DISTURBANCE
EP	EDGE OF PAVEMENT	TA	TOP OF ASPHALT	26	PROPOSED CONTOUR
EX.	EXISTING	TC	TOP OF CONCRETE	RD	PROPOSED ROOF DRAIN
FE	FINISHED ELEVATION	TS	TOP OF STAIR	X	INLET PROTECTION
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK	X	
FL	FLOW LINE	TW	TOP OF WALL		GRADE BREAK
FOCB	FIBER OPTIC CABLE BOX	TYP.	TYPICAL	TPF	TREE PROTECTION FENCE
HP	HIGH POINT (OF SWALE, TYP)	YI	YARD INLET		
INV.	INVERT				

NOTE

REFER TO SHEET CG100 FOR GRADING NOTES

EXISTING STORM DRAINAGE STRUCTURE TABLE

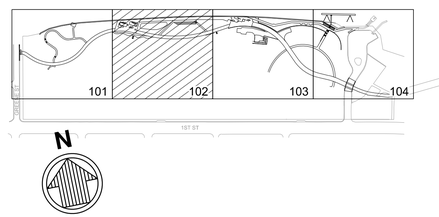
899 — DI TOP = 22.27
THROAT INLET = 21.07
INV = 17.46

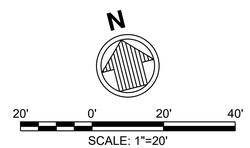
904 — DI TOP = 24.77
THROAT INLET = 23.79
INV = 19.79

EXISTING SANITARY SEWER STRUCTURE TABLE

1599 — SSMH TOP = 21.68
INV = 8.43

2102 — SSMH TOP = 22.76
INV = 8.31



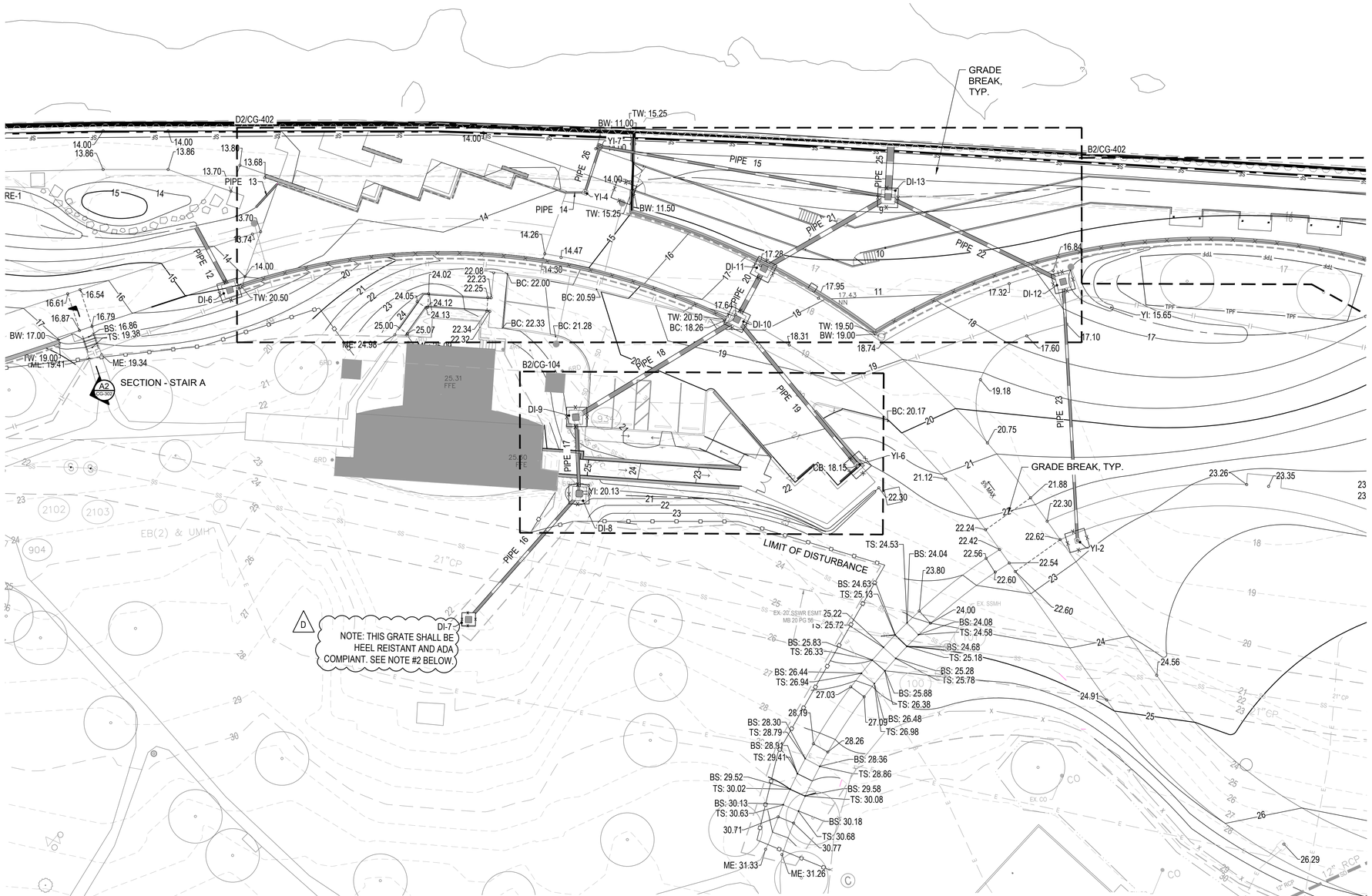


ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

A.	60% CD FOR INTERNAL REVIEW								SR	06/21/24

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



STORM SYSTEM DATA						
INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.75	4.61%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.76%	3	10"	HDPE	21.12
15.00	10.21	9.80%	4	12"	RCP	48.90
10.21	7.38	4.00%	5	15"	RCP	70.66
5.84	0.50	13.65%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	266.24
13.00	12.75	1.12%	8	4"	HDPE	22.37
13.00	12.75	1.17%	9	6"	HDPE	21.40
12.15	9.16	4.86%	10	15"	RCP	61.61
17.46	14.15	12.65%	11	15"	RCP	26.14
13.25	13.10	0.58%	12	12"	RCP	25.71
13.05	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.69%	14	6"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.64%	16	12"	HDPE	60.85
16.71	16.22	1.78%	17	12"	HDPE	27.77
16.22	13.71	3.67%	18	15"	RCP	68.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.56	10.64	9.20%	20	15"	RCP	20.88
7.64	5.38	4.35%	21	15"	RCP	51.97
7.50	5.38	3.00%	22	12"	RCP	70.58
18.02	10.50	8.00%	23	10"	HDPE	94.05
23.18	22.25	2.73%	24	8"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	2.85%	26	8"	HDPE	17.56

STORM STRUCTURE TABLE				
STRUCTURE	RIM EL	STRUCTURE IN	INVERT 1N	INVERT OUT
DI-1	20.50			15.00
DI-2	15.00	DI-1 YI-1	10.21 10.21 13.17	10.21
DI-4	18.40	DI-5	14.15	12.15
DI-5	21.50			17.46
DI-6	15.00			13.25
DI-7	22.00			17.71
DI-8	22.25	DI-7	16.71	16.71
DI-9	21.79	DI-8	16.22	16.22
DI-10	18.25	DI-9 YI-6	13.71 13.71	12.56
DI-11	17.88	DI-10	10.64	7.64
DI-12	18.98	YI-2	10.50	7.50
DI-13	8.85	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	13.00	DI-4	9.16	9.16
OUTLET STRUCTURE-2	12.75	DI-2 OUTLET STRUCTURE-1	7.38 7.84	5.84
YI-1	15.00			11.00
YI-2	22.60			18.02
YI-3	25.80			23.18
YI-4	13.50		10.00	8.00
YI-5	14.60		12.75	
YI-6	18.15			14.40
YI-7	13.85	YI-4	7.50	7.50

GRADING LEGEND

BC	BACK OF CURB	JB	JUNCTION BOX
BS	BOTTOM OF STAIR	LF	LINEAR FEET
BW	BOTTOM OF WALL	LP	LOW POINT
CB	CATCH BASIN	M.E.	MATCH EXISTING
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE
C.T.	CURB TAPER	TA	TOP OF ASPHALT
EP	EDGE OF PAVEMENT	TC	TOP OF CONCRETE
EX.	EXISTING	TS	TOP OF STAIR
FE	FINISHED ELEVATION	TSW	TOP OF SIDEWALK
FFE	FINISH FLOOR ELEVATION	TW	TOP OF WALL
FL	FLOW LINE	TYP.	TYPICAL
FOCB	FIBER OPTIC CABLE BOX	YI	YARD INLET
HP	HIGH POINT (OF SWALE, TYP)		
INV.	INVERT		

x 26.00 EX. SPOT ELEVATION
26 EXISTING CONTOUR
SD EX. STORM DRAIN
PROPOSED STORM PIPE
X SILT FENCE
LIMITS OF DISTURBANCE
26 PROPOSED CONTOUR
RD PROPOSED ROOF DRAIN
INLET PROTECTION
GRADE BREAK
TPF TREE PROTECTION FENCE

NOTE

1. REFER TO SHEET CG100 FOR GRADING NOTES
2. DI-7 WILL HAVE AN 18"X18" HEEL RESISTANT AND ADA COMPLIANT GRATE. THE GRATE SHALL BE CLASS B DUCTILE IRON. APPROPRIATE SIZED FRAME SHALL BE CAST INTO CONCRETE SLAB. MANUFACTURER TO BE USED SHALL BE NDS, NEENAH, IRON AGE, OR APPROVED EQUAL.

EXISTING STORM DRAINAGE STRUCTURE TABLE

904 — DI TOP = 24.77; THROAT INLET = 23.79; INV = 19.79

934 — CB HOOD = 18.67; INV = 14.22

EXISTING SANITARY SEWER STRUCTURE TABLE

2102 — SSMH TOP = 22.76; INV = 8.31

2103 — SSMH TOP = 22.76; INV = 8.06

100 — SSMH TOP = 24.06; BOTTOM = 12.31 (APPEARS TO BE ABANDONED)

101 — SSMH TOP = 23.48; NW SERV. = 15.38; INV = 7.63

N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	
1	ADDENDUM NO. 1	2025-02-28	
D	ADDENDUM 1	3/27/25	TAT

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (CENTER-EAST)

Designed by: SR
Drawn by: SR
Checked by: SR
Reviewed by: SR
Submitted by: MARK MORSELLO
MOFFATT & NICHOL
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Plot scale: 1:1 (D SHEET)
Drawing Scale: AS SHOWN

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering • Surveying • Planning • Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049825 Signed by: Todd Tant TODD ALAN TANT
SEAL 3/27/2025

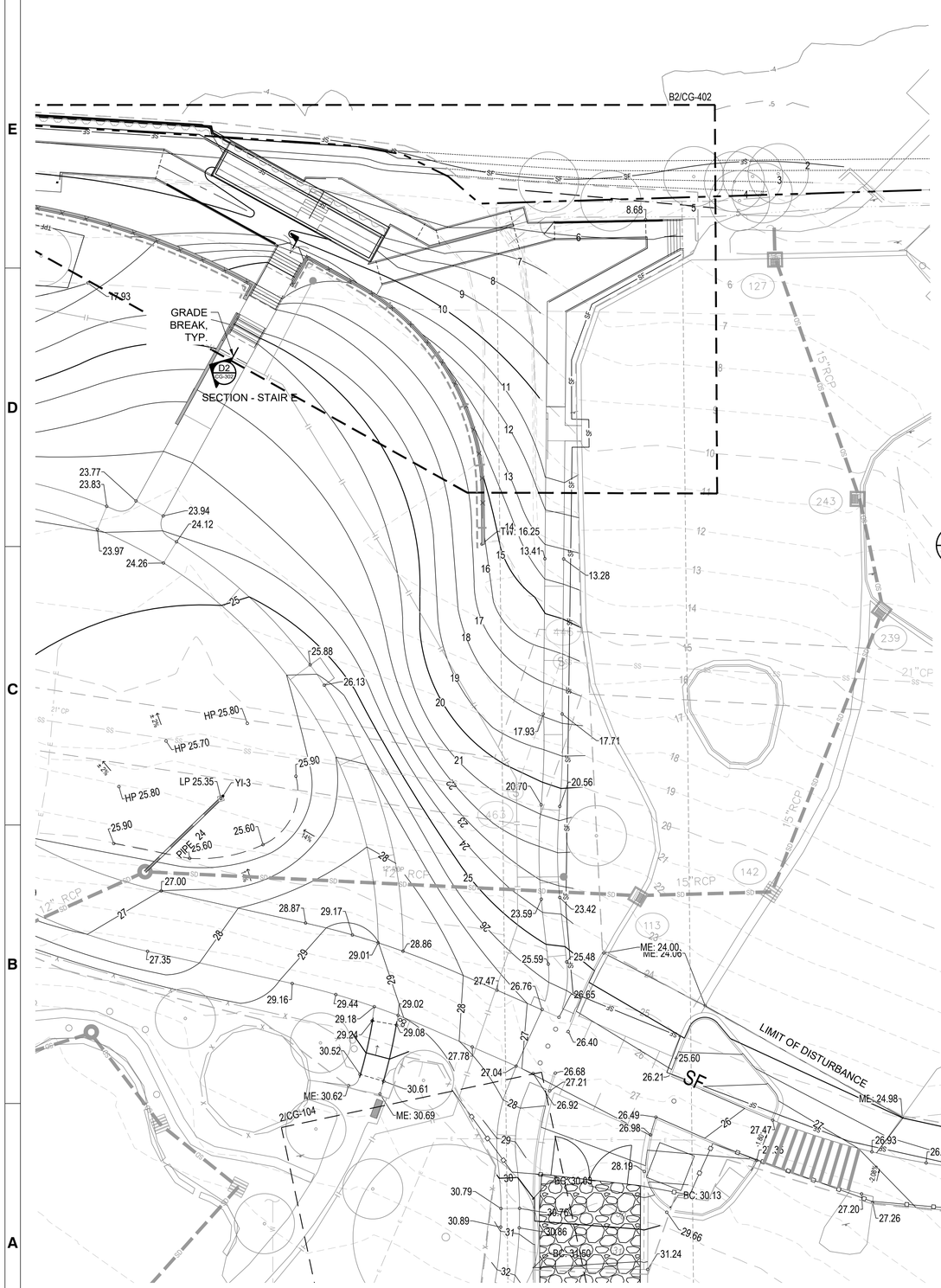
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHUE
SEAL 3/27/2025

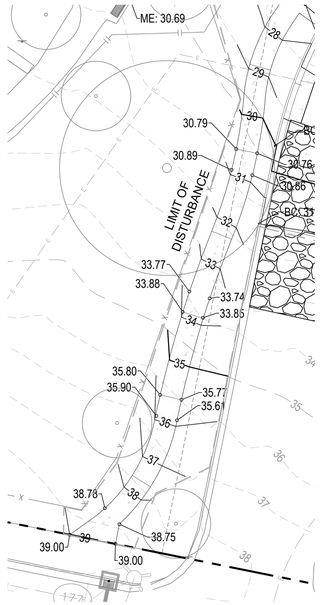
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CG103
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799





C2 / CG-104 GRADING PLAN - PATH TO FIRST STREET

SCALE: 1" = 20'-0"

EXISTING STORM DRAINAGE STRUCTURE TABLE

239	CB HOOD = 13.04 INV = 9.29	113	CB HOOD = 22.47 INV = 19.17
243	CB HOOD = 10.85 INV = 8.25	142	DI TOP = 20.48 INV = 17.05
127	CB HOOD = 5.82 INV = 2.47	177	DI TOP = 38.84 INV = 33.94

EXISTING SANITARY SEWER STRUCTURE TABLE

446	SSMH TOP = 17.14 INV = 7.54
463	SSMH TOP = 20.74 INV = 7.54

GRADING LEGEND

BC	BACK OF CURB	JB	JUNCTION BOX	x 26.00	EX. SPOT ELEVATION
BS	BOTTOM OF STAIR	LF	LINEAR FEET	26	EXISTING CONTOUR
BW	BOTTOM OF WALL	LP	LOW POINT	SD	EX. STORM DRAIN
CB	CATCH BASIN	M.E.	MATCH EXISTING		PROPOSED STORM PIPE
CO	CLEAN OUT	RCP	REINFORCED CONCRETE PIPE	X	SILT FENCE
C.T.	CURB TAPER				LIMITS OF DISTURBANCE
EP	EDGE OF PAVEMENT	TA	TOP OF ASPHALT	26	PROPOSED CONTOUR
EX.	EXISTING	TC	TOP OF CONCRETE	RD	PROPOSED ROOF DRAIN
FE	FINISHED ELEVATION	TS	TOP OF STAIR		INLET PROTECTION
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK		
FL	FLOW LINE	TW	TOP OF WALL		GRADE BREAK
FOCB	FIBER OPTIC CABLE BOX	TYP.	TYPICAL	TPF	TREE PROTECTION FENCE
HP	HIGH POINT (OF SWALE, TYP)	YI	YARD INLET		
INV.	INVERT				

STORM STRUCTURE TABLE

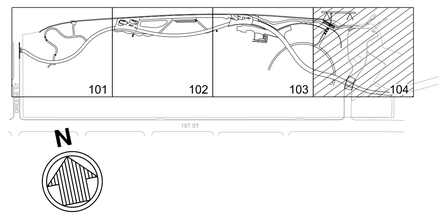
STRUCTURE	RIM EL	STRUCTURE IN	INVERT 1N	INVERT OUT
DI-1	20.50			15.00
DI-2	15.00	DI-1 YI-1	10.21 10.21 13.17	10.21
DI-4	18.40	DI-5	14.15	12.15
DI-5	21.50			17.46
DI-6	15.00			13.25
DI-7	22.00			17.71
DI-8	22.25	DI-7	16.71	16.71
DI-9	21.79	DI-8	16.22	16.22
DI-10	18.25	DI-9 YI-6	13.71 13.71	12.56
DI-11	17.88	DI-10	10.64	7.64
DI-12	18.98	YI-2	10.50	7.50
DI-13	8.85	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	13.00	DI-4	9.16	9.16
OUTLET STRUCTURE-2	12.75	DI-2 OUTLET STRUCTURE-1	7.38 7.84	5.84
YI-1	15.00			11.00
YI-2	22.60			18.02
YI-3	25.80			23.18
YI-4	13.50		10.00	8.00
YI-5	14.60		12.75	
YI-6	18.15			14.40
YI-7	13.85	YI-4	7.50	7.50

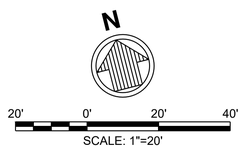
STORM SYSTEM DATA

INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.75	4.61%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.76%	3	10"	HDPE	21.12
15.00	10.21	9.80%	4	12"	RCP	48.90
10.21	7.38	4.00%	5	15"	RCP	70.66
5.84	0.50	13.65%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	266.24
13.00	12.75	1.12%	8	4"	HDPE	22.37
13.00	12.75	1.17%	9	6"	HDPE	21.40
12.15	9.16	4.86%	10	15"	RCP	61.61
17.46	14.15	12.65%	11	15"	RCP	26.14
13.25	13.10	0.58%	12	12"	RCP	25.71
13.05	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.69%	14	6"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.64%	16	12"	HDPE	60.85
16.71	16.22	1.78%	17	12"	HDPE	27.77
16.22	13.71	3.67%	18	15"	RCP	68.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.56	10.64	9.20%	20	15"	RCP	20.88
7.64	5.38	4.35%	21	15"	RCP	51.97
7.50	5.38	3.00%	22	12"	RCP	70.58
18.02	10.50	8.00%	23	10"	HDPE	94.05
23.18	22.25	2.73%	24	8"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	2.85%	26	8"	HDPE	17.56

NOTE

REFER TO SHEET CG100 FOR GRADING NOTES





SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
A.	60% CD FOR INTERNAL REVIEW	05/21/24	SKR
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (EAST)

Designed by: SR | Drawn by: SR | Checked by: MS | Reviewed by: SR | Submitted by: ANDREW HARRELL, MOFFATT & NICHOL

Date: 02/07/2025 | Rev.

M&N Project No. 221315-02

Drawing code:

Drawing Scale: AS SHOWN

Plot scale: 1:1 (1) SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL Signed by: Ted Tripp 4/3/2025 — SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 Signed by: Sharon Rich 4/2/2025 — SEAL

Sheet Reference No.

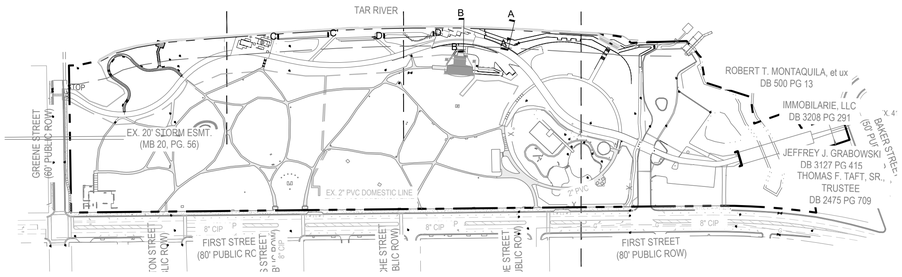
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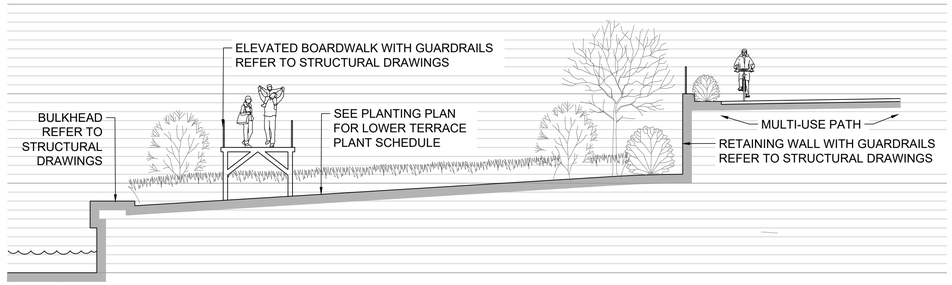
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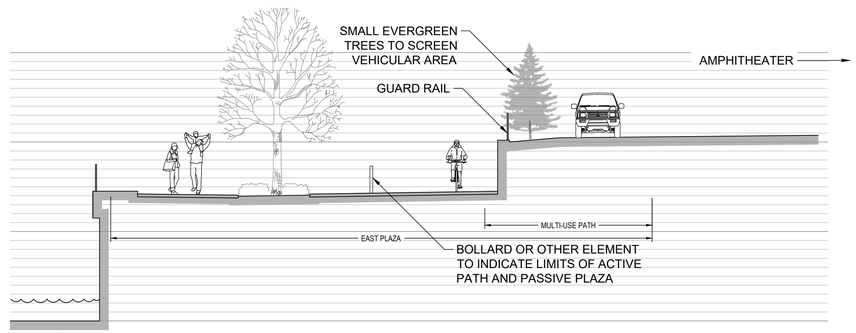
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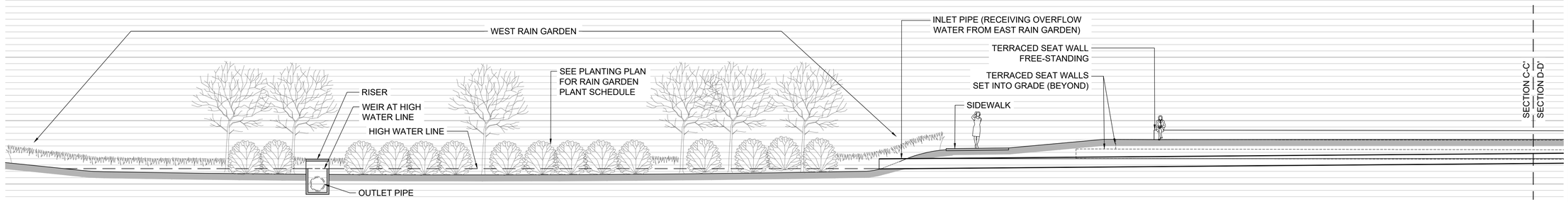
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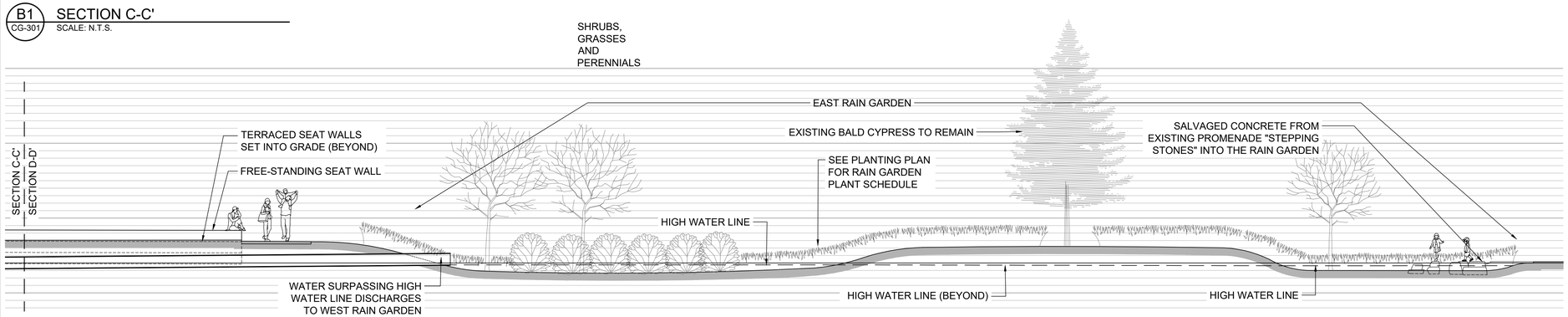
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SCALE: N.T.S.



C3 / CG-301 **SECTION B-B'**
SCALE: N.T.S.



B1 / CG-301 **SECTION C-C'**
SCALE: N.T.S.



A1 / CG-301 **SECTION D-D'**
SCALE: N.T.S.

NOTE: ALL SECTIONS ARE FOR ILLUSTRATIVE PURPOSES ONLY

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Rev.	Description	Date
1	ADDENDUM NO. 1	2025-02-26
0	ISSUED FOR BID	2025-02-07

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE SECTIONS

Date: 02/07/2025
Designed by: SR
Drawn by: SR
Chkd by: MS
Reviewed by: SR
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

Submitted by:
MARIO PERELLO
MOFFATT & NICHOL

SEAL



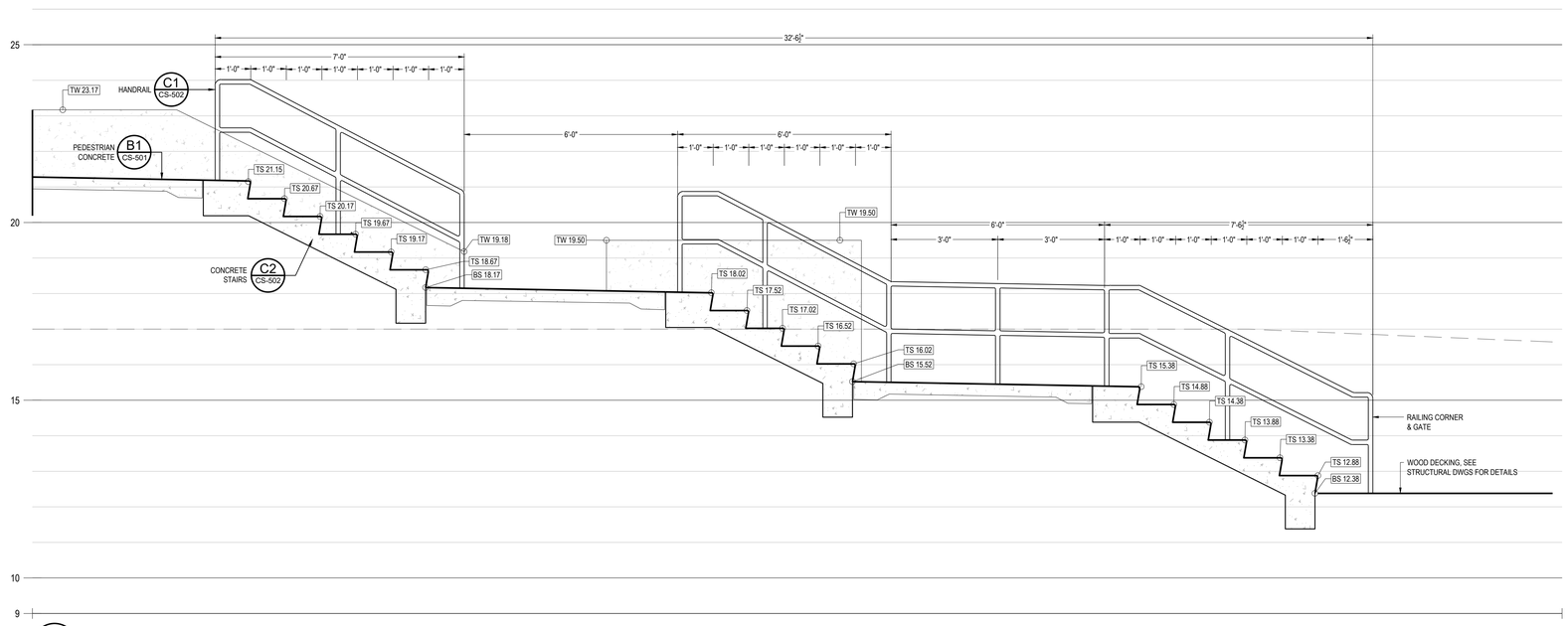
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Sheet Reference No.
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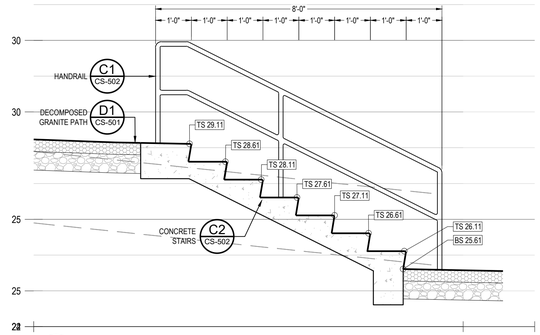
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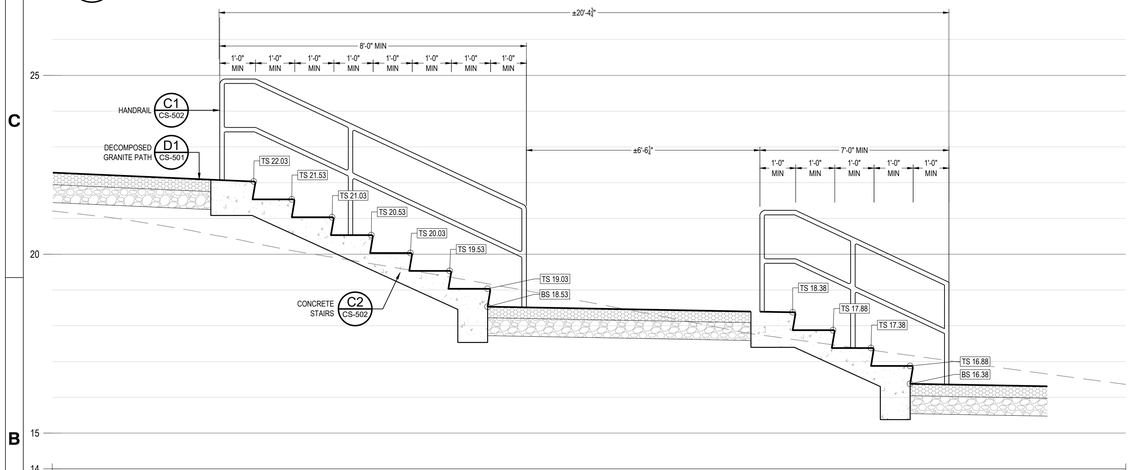
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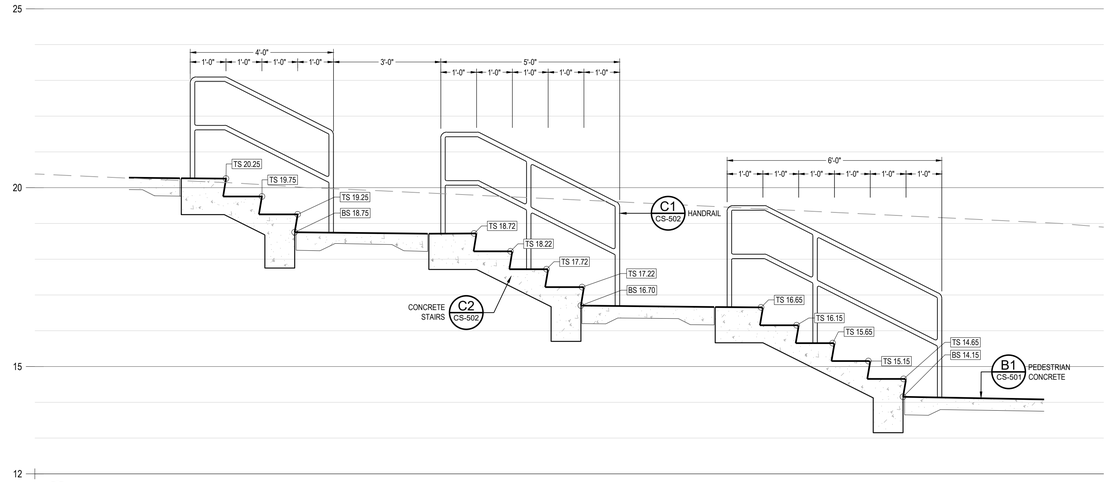
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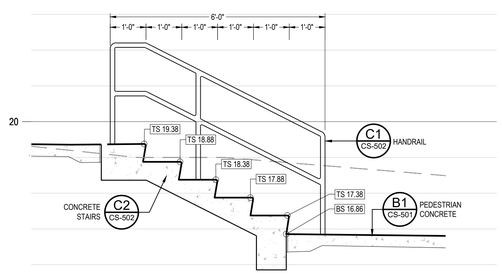
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B3 CG-302 SECTION - STAIR B
SCALE: 1/2" = 1'-0"



A2 CG-302 SECTION - STAIR A
SCALE: 1/2" = 1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE SECTIONS

Rev.
Date: 02/07/2025
Designed by: SR
Drawn by: SR
Cnd by: MS
Reviewed by: SR
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105
moffatt & nichol

324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427
THE EAST GROUP
Engineering • Surveying • Technology

Submitted by: MARK PERRELLO
MOFFATT & NICHOL

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RAU
A28881EA-AA8E-4...
3/3/2025

SEAL

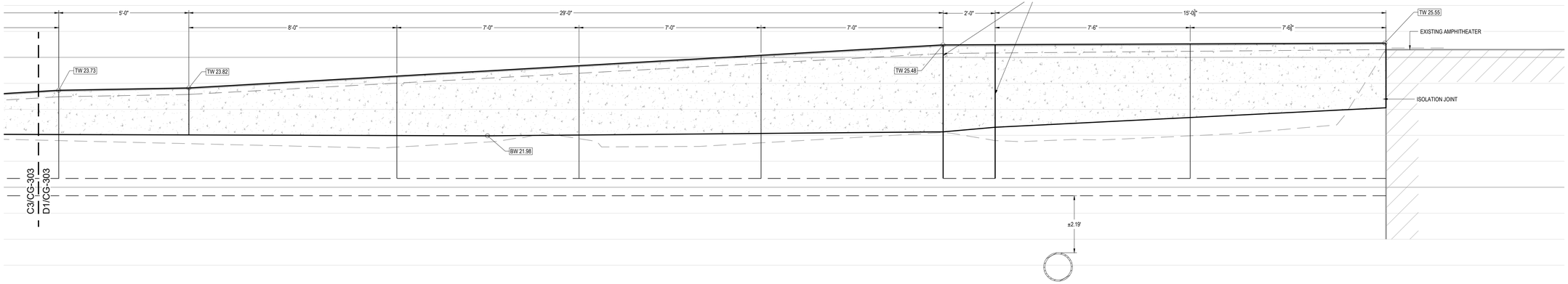
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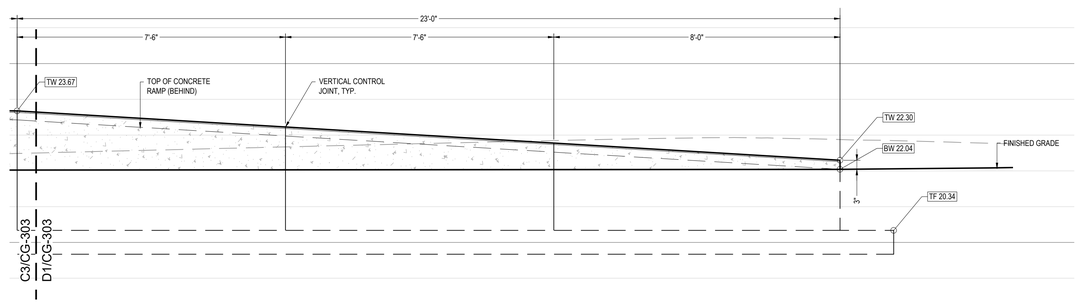
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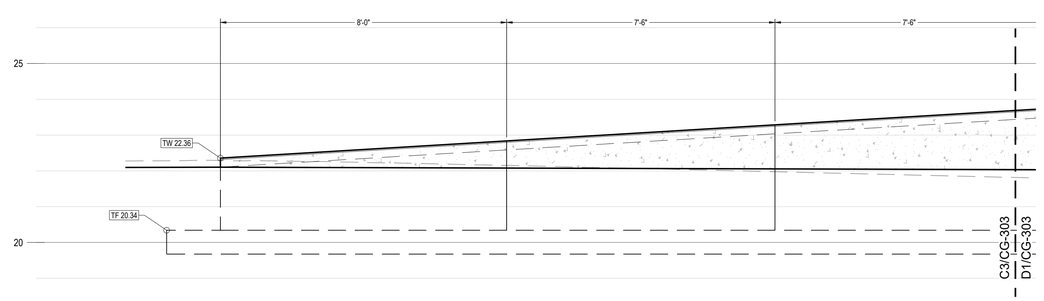
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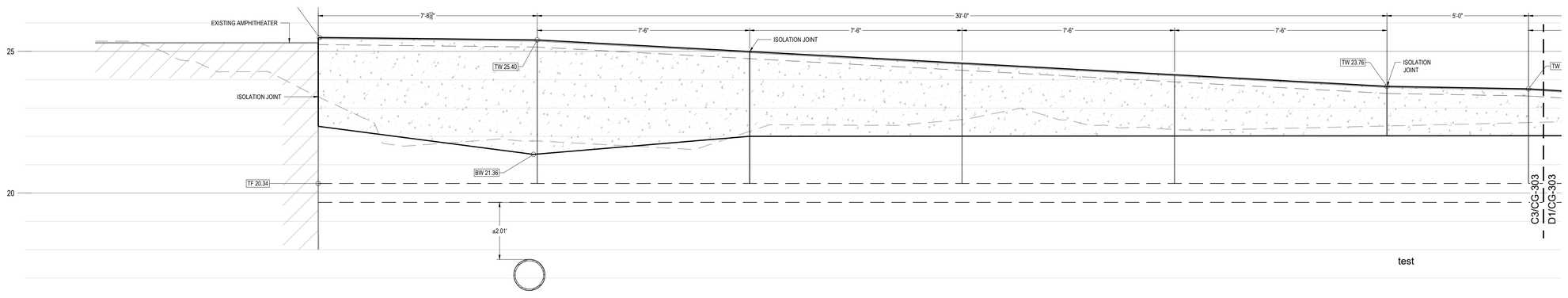
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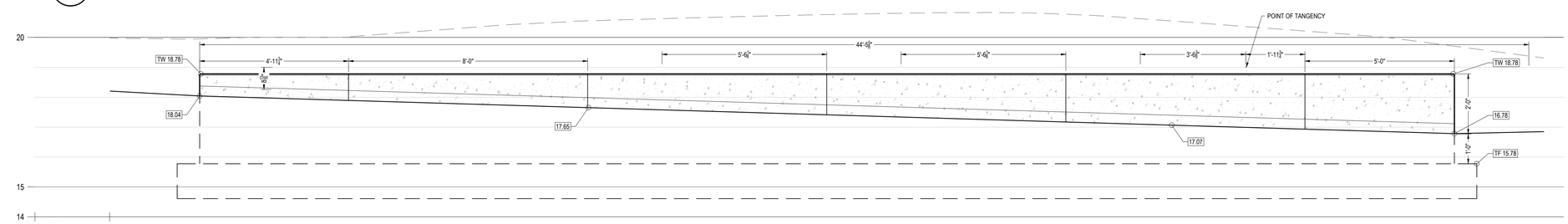
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C3 CG-303 ELEVATION - AMPHITHEATER WALL NORTH
SCALE: 1/2" = 1'-0"



B1 CG-303 ELEVATION - AMPHITHEATER WALL SOUTH
SCALE: 1/2" = 1'-0"



A1 CG-303 ELEVATION - MULTI-USE PATH SEAT WALL
SCALE: 1/2" = 1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE SECTIONS

Designed by: SR
Drawn by: SR
Reviewed by: SR
Date: 02/07/2025
Rev.
Chd by: MS
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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NC FIRM LICENSE NO. F-0105
moffatt & nichol

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GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427
THE EAST GROUP
Engineering : Surveying : Technology

Submitted by:
MARK PRELLO
MOFFATT & NICHOL

SEAL

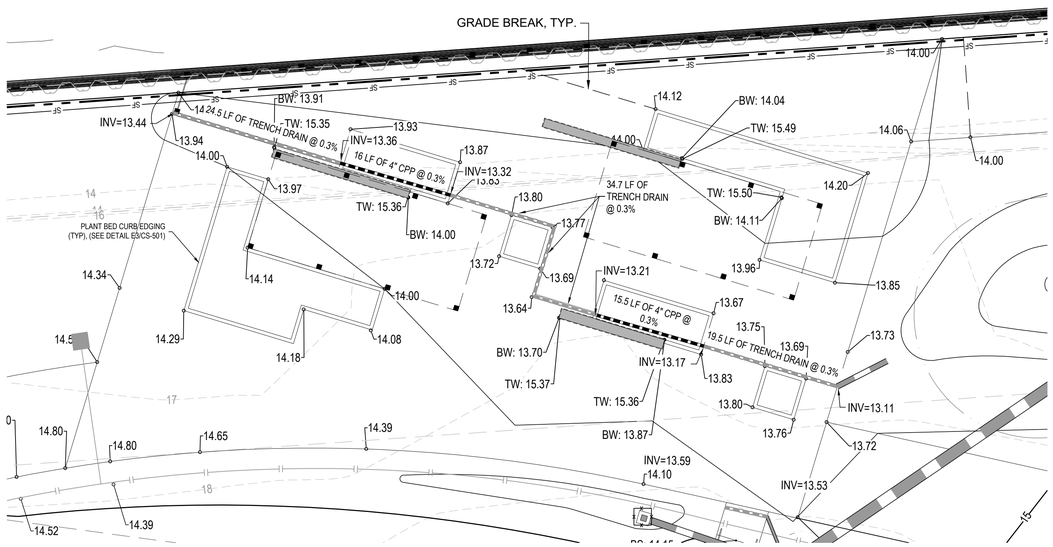
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3/2/2025
SEAL

Sheet Reference No.
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INDEX: 40 OF 114

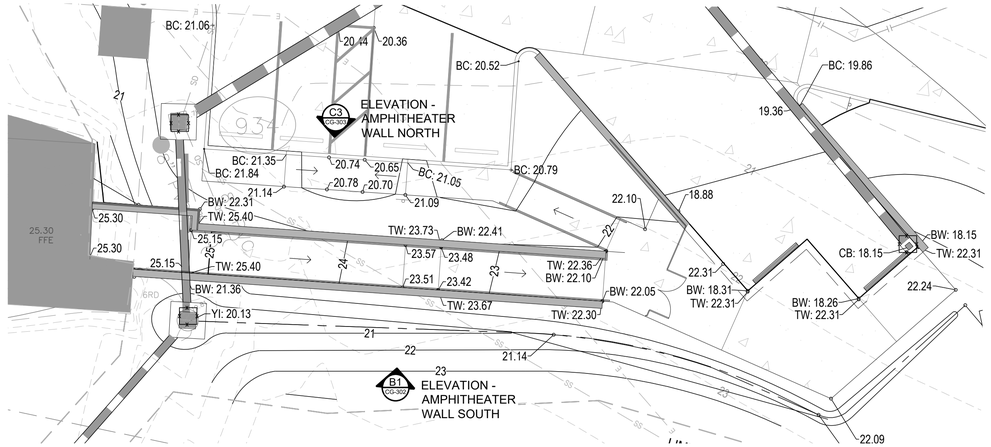
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



C2 / CG-401 WEST PLAZA GRADING & DRAINAGE ENLARGEMENT
SCALE: 1" = 10'-0"



B2 / CG-401 AMPHITHEATER RAMP GRADING & DRAINAGE ENLARGEMENT
SCALE: 1" = 10'-0"

N

10' 0' 10' 20'
SCALE: 1"=10'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

No.	Mark	Description	Date	Appr.
A.		60% CD FOR INTERNAL REVIEW	05/21/24	SKR
0		ISSUED FOR BID	2025-02-07	
1		ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN ENLARGEMENTS

Date: 02/07/2025 | Rev.
Designed by: SR | Cad by: MS | M&N Project No. 221315-02
Drawn by: SR | Reviewed by: SR | Drawing code:
Submitted by: MARK POWELL, MOFFATT & NICHOL | Drawing Scale: AS SHOWN | Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHEW
5/2/2025

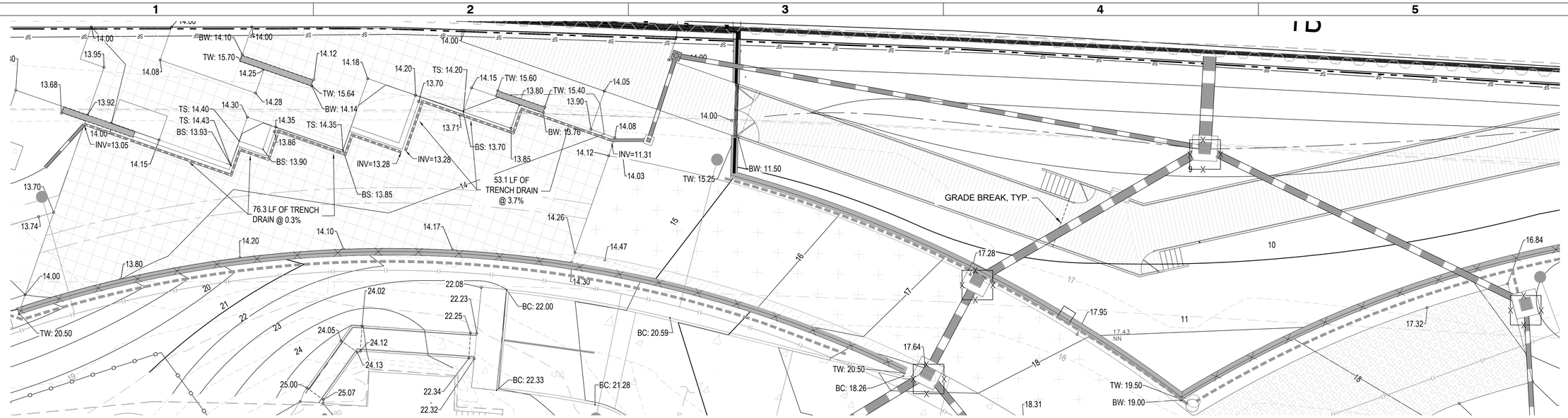
SEAL

Sheet Reference No.
CG401
INDEX: 41 OF 114

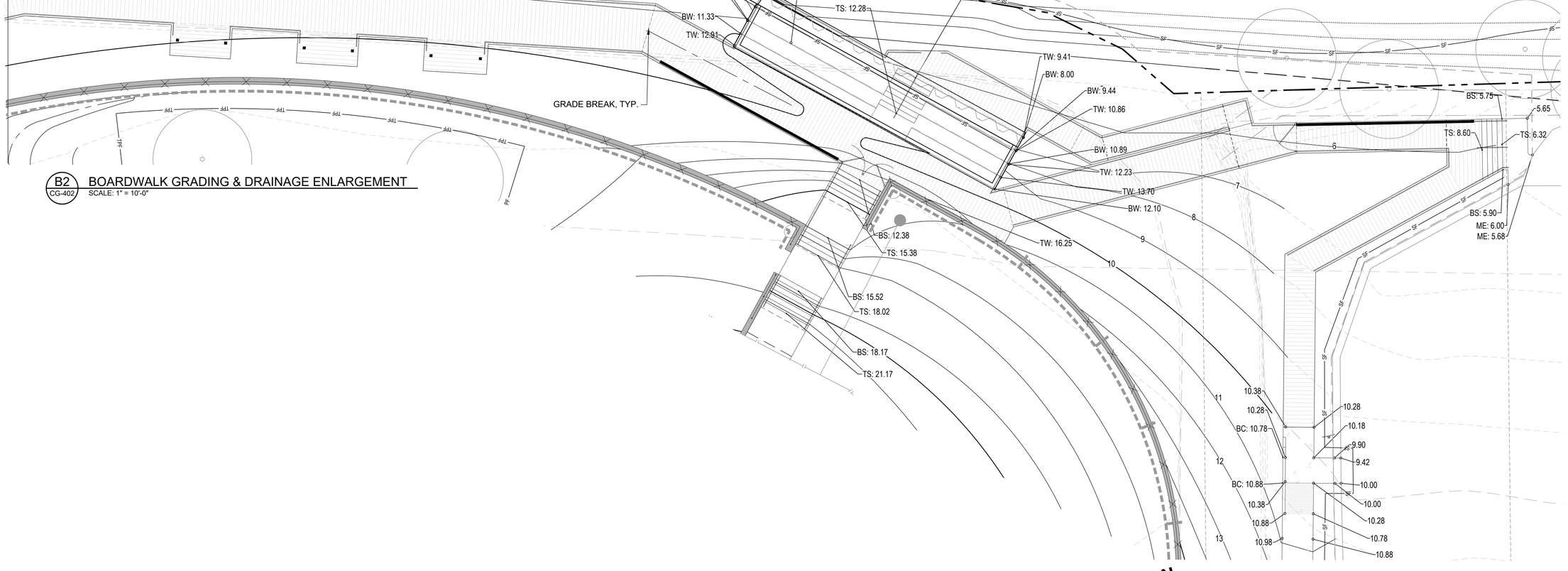
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



D2 CG-402 EAST PLAZA AND BOARDWALK GRADING & DRAINAGE ENLARGEMENT
SCALE: 1" = 10'-0"



B2 CG-402 BOARDWALK GRADING & DRAINAGE ENLARGEMENT
SCALE: 1" = 10'-0"

N

10' 0' 10' 20'
SCALE: 1"=10'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

No.	Description	Date	Appr.
A	60% CD FOR INTERNAL REVIEW	05/21/24	SR
0	ISSUED FOR BID	2025-02-07	
1	ADDENDUM NO. 1	2025-02-26	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN ENLARGEMENTS

Designed by: SR
Drawn by: SR
Reviewed by: SR
Submitted by: MARK MORELLO, MOFFATT & NICHOLS
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Plot date: 2/27/2025 5:54 PM by: ANDREW HARRELL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering | Surveying | Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

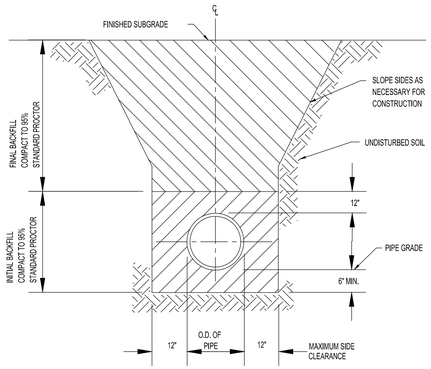
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT A2888 SHARON RHUE
Sharon Rhue
3/3/2025
SEAL

Sheet Reference No.
CG402
INDEX: 42 OF 114

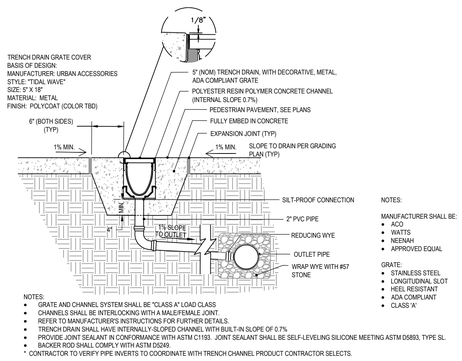
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



E1 CG-501 STORM DRAIN TRENCH
N.T.S.



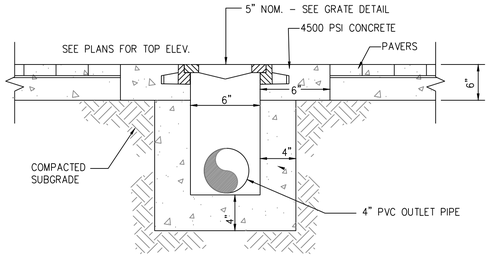
NOTES:
- GRATE AND CHANNEL SYSTEM SHALL BE "CLASS A" LOAD CLASS
- CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.
- REFER TO MANUFACTURER'S INSTRUCTIONS FOR FURTHER DETAILS.
- TRENCH DRAIN SHALL HAVE INTERNALLY-SLOPED CHANNEL WITH BUILT-IN SLOPE OF 0.7%
- PROVIDE JOINT SEALANT IN CONFORMANCE WITH ASTM C1193. JOINT SEALANT SHALL BE SELF-LEVELING SILICONE MEETING ASTM D5893, TYPE SL.
- BACKER ROD SHALL COMPLY WITH ASTM D5249.
- * CONTRACTOR TO VERIFY PIPE INVERTS TO COORDINATE WITH TRENCH CHANNEL PRODUCT CONTRACTOR SELECTS.

NOTES:

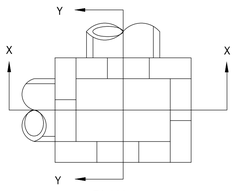
MANUFACTURER SHALL BE:
- ACO
- WATTS
- NEENAH
- APPROVED EQUAL

GRATE:
- STAINLESS STEEL
- LONGITUDINAL SLOT
- HEEL RESISTANT
- ADA COMPLIANT
- CLASS 'A'

E2 CG-501 TRENCH DRAIN WITH OUTLET PIPE
N.T.S.

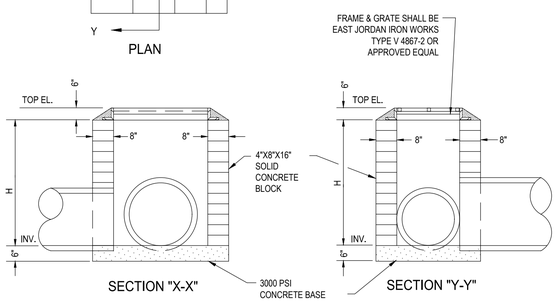


E3 CG-501 TRENCH DRAIN IN PAVERS
N.T.S.

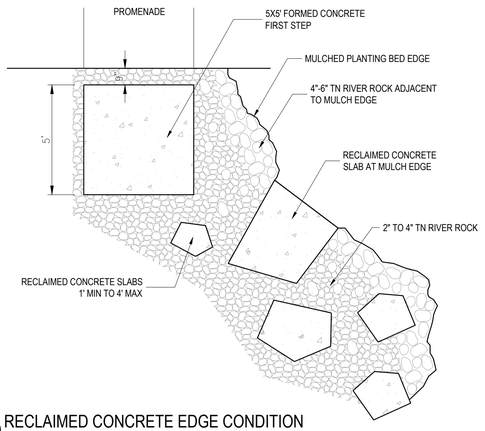


PLAN

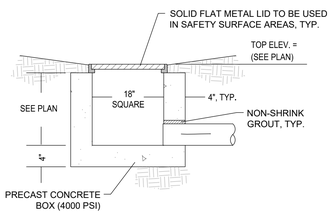
NOTE:
PRECAST CONCRETE BOXES MAY BE USED IN LIEU OF 8" BLOCK. CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO USE. DIMENSIONS SHALL BE AS NEEDED TO ACCOMMODATE PIPES WITH 6" CLEAR ON ALL SIDES. PROVIDE STEPS IN DRAINAGE BOXES 5' OR DEEPER.



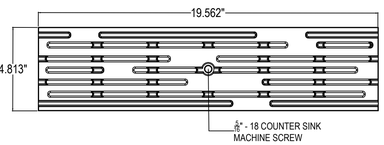
C1 CG-501 DROP INLET
N.T.S.



B2 CG-501 RECLAIMED CONCRETE EDGE CONDITION
SCALE: N.T.S.



B1 CG-501 YARD INLET
N.T.S.

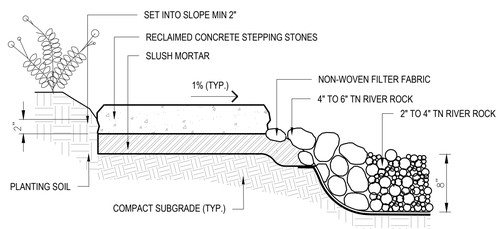


NOTES:
1. HEALPROOF: NO THRU OPENINGS GREATER THAN ¼"
2. SHIPS IN PIECES: 1
3. DUE TO CASTING INCONSISTENCIES, ALL DIMENSIONS ARE NOMINAL
4. MATERIAL: CAST DUCTAL IRON
5. FINISH: POLYESTER POWDER COAT WITH SEMI-GLOSS RUST TEXTURE BRONZE
6. SUBMIT CUT SHEET TO LANDSCAPE ARCHITECT FOR APPROVAL

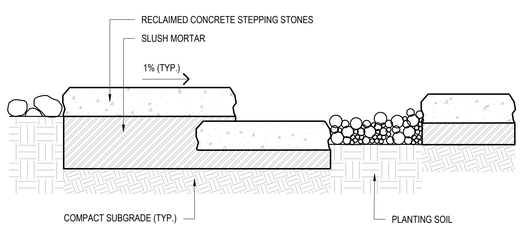
ACCEPTABLE MANUFACTURES:
IRON AGE
URBAN ACCESSORIES
IRONSMITH
OR APPROVED EQUAL

A1 CG-501 5" (NOM) DECORATIVE METAL TRENCH GRATE
N.T.S.

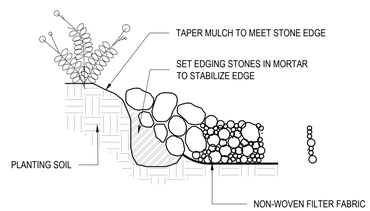
NOTE:
FINAL RECLAIMED CONCRETE STEPPING STONE SELECTIONS AND LOCATIONS TO BE LAID OUT WITH OVERSIGHT OF LANDSCAPE ARCHITECT



A2 CG-501 RECLAIMED CONCRETE AT EAST PLAZA
SCALE: N.T.S.



A3 CG-501 STACKED AND MORTARED RECLAIMED CONCRETE
SCALE: N.T.S.



A4 CG-501 STONE EDGE
SCALE: N.T.S.

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Mark	Description	Date	Appr.
	1	ADDENDUM NO. 1	2025-02-28	
	0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING DETAILS

Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Designed by: SR
Drwn by: SR
Ckd by: MS
Reviewed by: SR
Submitted by: ANDREW HARRELL
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO - F-0105

THE EAST GROUP
Planning : Surveying : Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049161 Signed by: Andrew Harrell 2/7/2025 DocuSigned by: 5/5/2025

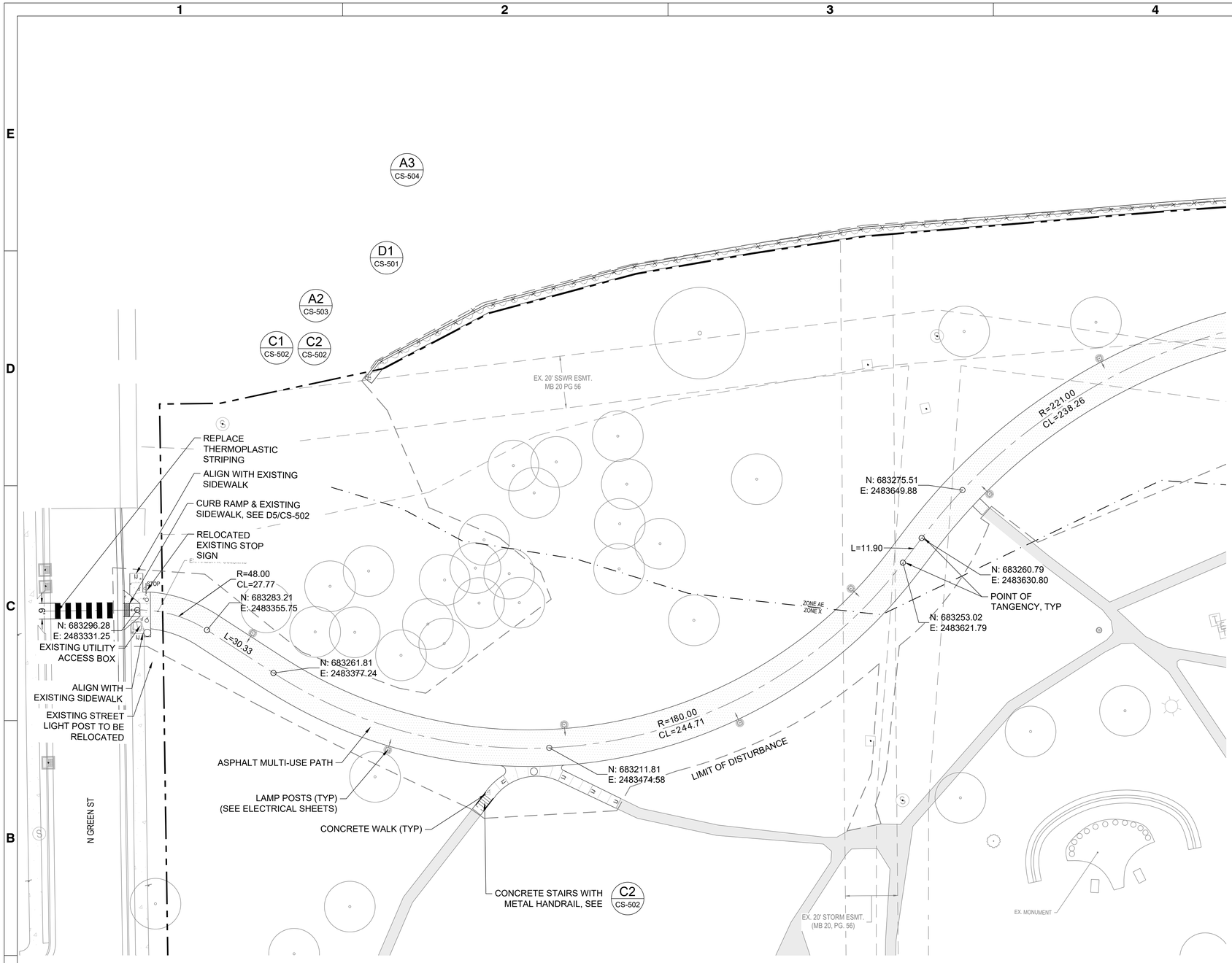
SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1842 SHARON RHUE A2881EAA2B8E4E5... 5/5/2025

Sheet Reference No.
CG501
INDEX: 43 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



SITE FURNISHINGS SCHEDULE

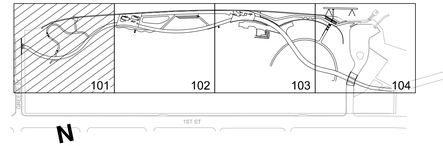
QTY.	ITEM	SIZE	COLOR/FINISHES	NOTES
13	Backed Bench with Armrests	6' width		Refer to DuMor Bench on Sheet CS-503
5	Back-less Bench with Armrests	6' width		DuMor Bench to coordinate Backed Bench on Sheet CS-503
6	Collapsible Bollard with Locking mechanism	34" ht.		Refer to Bollard R-7576 on Sheet CS-503
6	Bike Rack			Refer to DuMor "Series 292" on Sheet CS-503
3	Picnic Table	6'		Refer to DuMor "Table 100" on Sheet CS-503
4	Plaza Tables			Refer to Vestre "Berlin" Table on Sheet CS-503
14	Plaza Chairs			Refer to Vestre "Berlin" Chairs on Sheet CS-503; To include swivel mechanism
20	Trash/Recycling Receptacles with rain sheild	40 gal.		Refer to DuMor "Receptacle 157-40" on Sheet CS-503
4	Concrete Seat Wall Toppers (backless with armrests)	8' wide x 20" deep	Rot-resistant, FSC certified wood	Refer to "Streetlife" Detail on Sheet CS-502
2	Concrete Seat Wall Toppers (With backrest & armrests)	8' wide x 20" deep	Rot-resistant, FSC certified wood	Refer to "Streetlife" Detail on Sheet CS-502
1	Concrete Outdoor Table Tennis	5' wide x 9' long		Refer to "Concrete Outdoor Table Tennis" Detail on Sheet CS-504
2	Concrete Table Tennis Benches			Refer to "Concrete Table Tennis Benches" Detail on Sheet CS-XXX

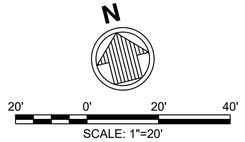
SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501

EXISTING MATERIALS LEGEND

AL	AREA LIGHT
ASW	ASPHALT WALK
BNCH	BENCH
CP	CONCRETE PAD
CIP	CAST IRON PIPE
CSW	CONCRETE SIDEWALK
DI	DROP INLET
EB	ELECTRIC BOX
EMH	ELECTRICAL MANHOLE
EX.	EXISTING
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SI	SIGN
SMH	SANITARY MANHOLE
SS	SANITARY SEWER
TBM	TEMPORARY BENCH MARK
TC	TRASH CAN
TYP.	TYPICAL
UE	ELECTRIC
UG	GAS
UGT	TELEPHONE/CABLE/FIBER OPTIC
W	WATER
WV	WATER VALVE
YI	YARD INLET
(500)	EXISTING CONTOUR
x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)





ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (WEST)

Rev.
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: SR
Drawn by: SR
Reviewed by: SR
Submitted by: MARIA PORTILLO MOFFATT & NICHOL
Sheet Reference No. **CS101**
INDEX: 44 OF 114

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

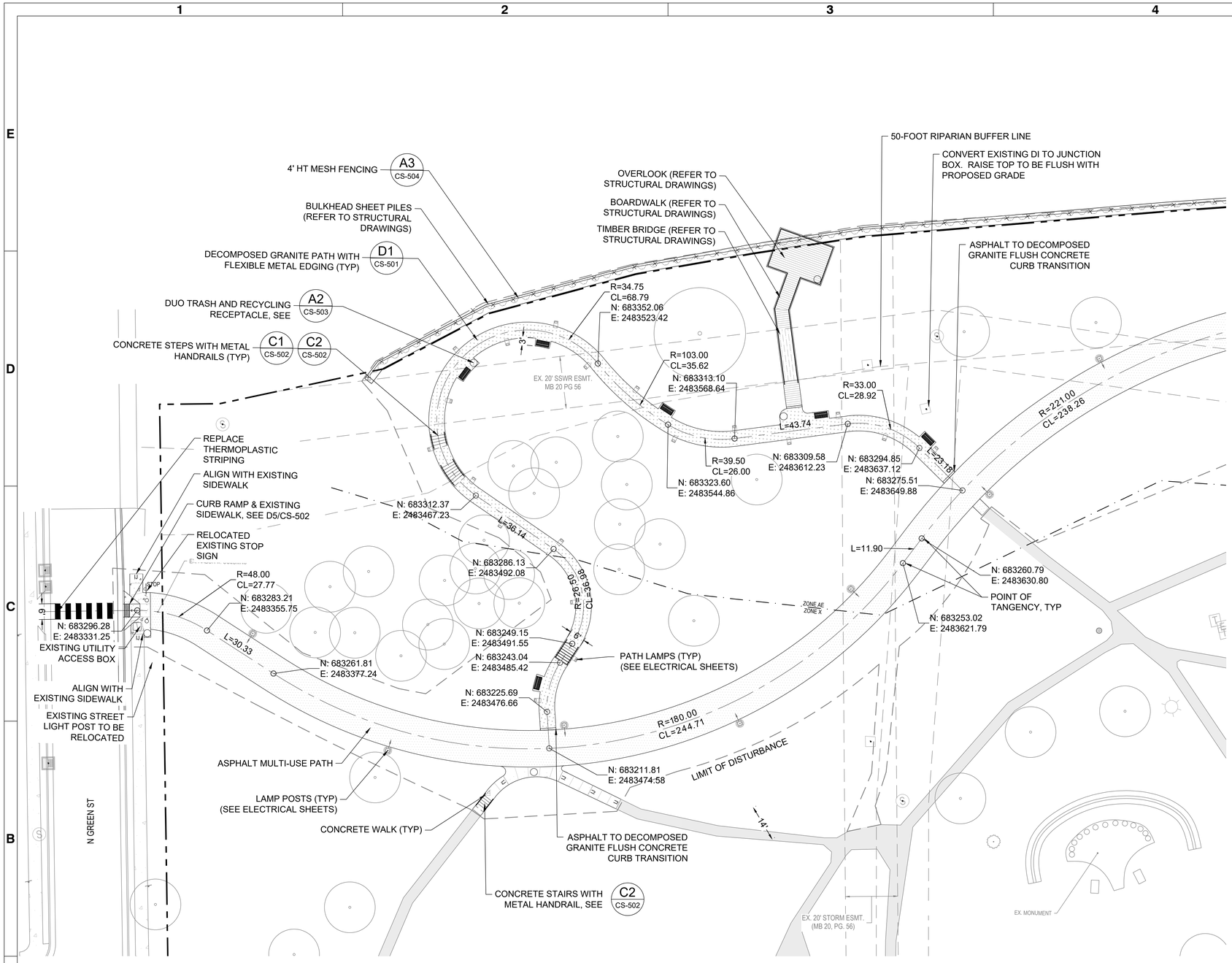
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHUE A28981EA-A28981EA 9/2/2025

SEAL

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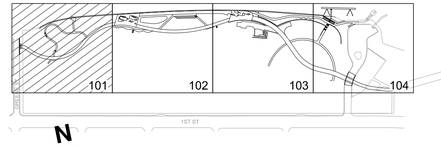
SITE PLAN FOR ADDITIVE BID 2

SITE FURNISHINGS SCHEDULE

QTY.	ITEM	SIZE	COLOR/FINISHES	NOTES
13	Backed Bench with Armrests	6' width		Refer to DuMor Bench on Sheet CS-503
5	Back-less Bench with Armrests	6' width		DuMor Bench to coordinate Backed Bench on Sheet CS-503
6	Collapsible Bollard with Locking mechanism	34" ht.		Refer to Bollard R-7576 on Sheet CS-503
6	Bike Rack			Refer to DuMor "Series 292" on Sheet CS-503
3	Picnic Table	6'		Refer to DuMor "Table 100" on Sheet CS-503
4	Plaza Tables			Refer to Vestre "Berlin" Table on Sheet CS-503
14	Plaza Chairs			Refer to Vestre "Berlin" Chairs on Sheet CS-503; To include swivel mechanism
20	Trash/Recycling Receptacles with rain sheild	40 gal.		Refer to DuMor "Receptacle 157-40" on Sheet CS-503
4	Concrete Seat Wall Toppers (backless with armrests)	8' wide x 20" deep	Rot-resistant, FSC certified wood	Refer to "Streetlife" Detail on Sheet CS-502
2	Concrete Seat Wall Toppers (With backrest & armrests)	8' wide x 20" deep	Rot-resistant, FSC certified wood	Refer to "Streetlife" Detail on Sheet CS-502
1	Concrete Outdoor Table Tennis	5' wide x 9' long		Refer to "Concrete Outdoor Table Tennis" Detail on Sheet CS-504
2	Concrete Table Tennis Benches			Refer to "Concrete Table Tennis Benches" Detail on Sheet CS-XXX

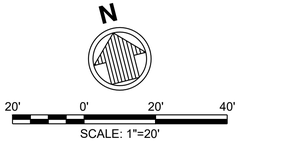
SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501



EXISTING MATERIALS LEGEND

AL	AREA LIGHT
ASW	ASPHALT WALK
BNCH	BENCH
CP	CONCRETE PAD
CIP	CAST IRON PIPE
CSW	CONCRETE SIDEWALK
DI	DROP INLET
EB	ELECTRIC BOX
EMH	ELECTRICAL MANHOLE
EX.	EXISTING
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SI	SIGN
SMH	SANITARY MANHOLE
SS	SANITARY SEWER
TBM	TEMPORARY BENCH MARK
TC	TRASH CAN
TYP.	TYPICAL
UE	ELECTRIC
UG	GAS
UGT	TELEPHONE/CABLE/FIBER OPTIC
W	WATER
WV	WATER VALVE
YI	YARD INLET
(500)	EXISTING CONTOUR
x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)



ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & SITE PLAN (WEST) - ALTERNATE A

Designed by: SR | Drawn by: SR | Checked by: MS | Reviewed by: SR
Date: 02/07/2025 | Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: ANDREW HARRELL
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT A2888 SHARON RHUE
9/2/2025

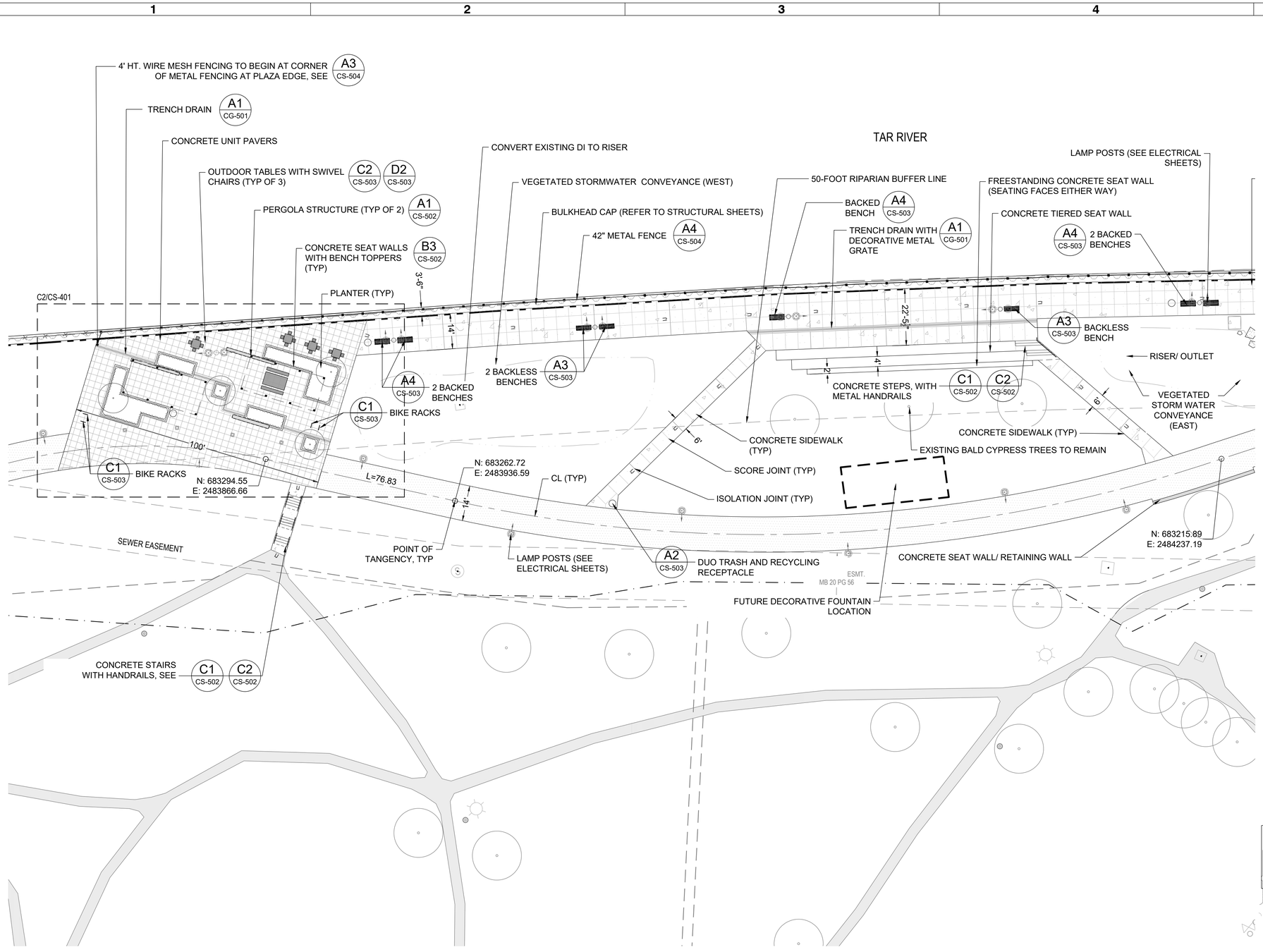
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Sheet Reference No.
CS101A
INDEX: 44A OF 114

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GREENVILLE TOWN COMMONS & ESPLANADE PROJECT - MATERIALS & SITE PLAN (WEST) - ALTERNATE A Saved: 2/27/2025 5:20 PM by ANDREW.HARRELL

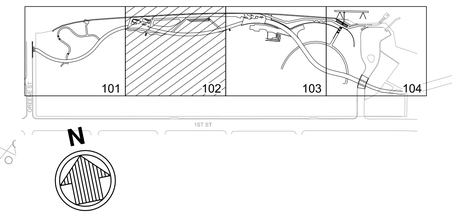
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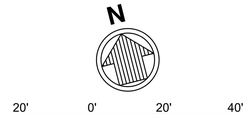
SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501



EXISTING MATERIALS LEGEND

AL	AREA LIGHT	SMH	SANITARY MANHOLE
ASW	ASPHALT WALK	SS	SANITARY SEWER
BNCH	BENCH	TBM	TEMPORARY BENCH MARK
CP	CONCRETE PAD	TC	TRASH CAN
CIP	CAST IRON PIPE	TYP.	TYPICAL
CSW	CONCRETE SIDEWALK	UE	ELECTRIC
DI	DROP INLET	UG	GAS
EB	ELECTRIC BOX	UGT	TELEPHONE/CABLE/FIBER OPTIC
EMH	ELECTRICAL MANHOLE	W	WATER
EX.	EXISTING	WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE	YI	YARD INLET
INV	INVERT	(500)	EXISTING CONTOUR
RCP	REINFORCED CONCRETE PIPE	x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		



SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (CENTER-WEST)

Date: 02/07/2025 | Rev.
Designed by: SR | Dwn by: SR | Chkd by: MS
M&N Project No. 221315-02
Drawing code:
Reviewed by: SR
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: MARK SCHELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT A28981EA SHARON RHUE
Sharon Rhue
3/21/2025

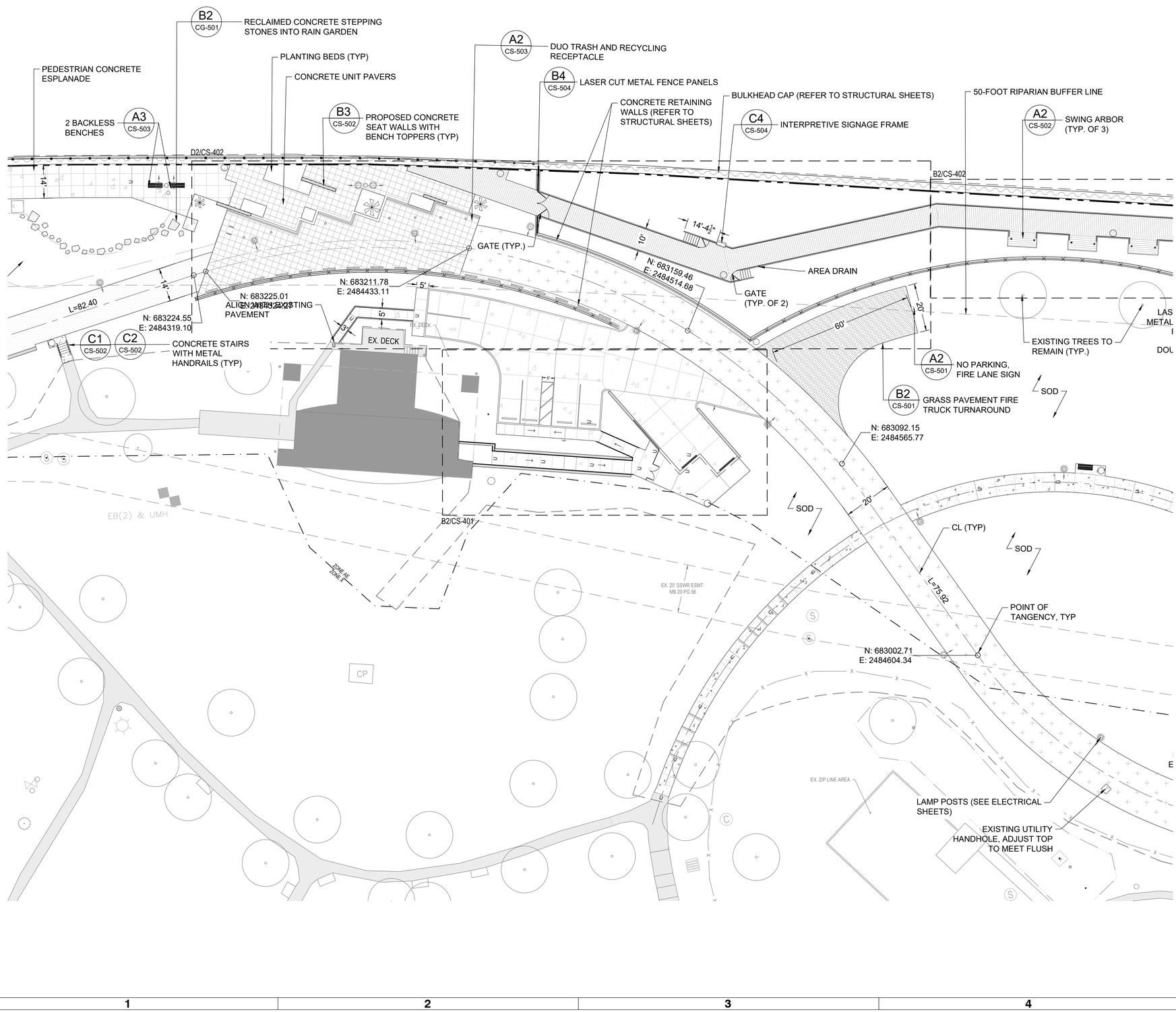
SEAL

Sheet Reference No.
CS102
INDEX: 45 OF 114

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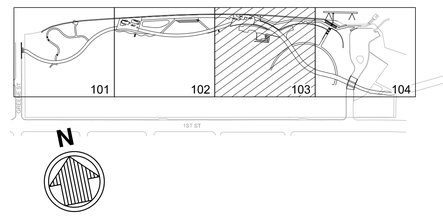


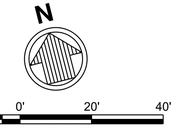
SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501

EXISTING MATERIALS LEGEND

AL	AREA LIGHT	SMH	SANITARY MANHOLE
ASW	ASPHALT WALK	SS	SANITARY SEWER
BNCH	BENCH	TBM	TEMPORARY BENCH MARK
CP	CONCRETE PAD	TC	TRASH CAN
CIP	CAST IRON PIPE	TYP.	TYPICAL
CSW	CONCRETE SIDEWALK	UE	ELECTRIC
DI	DROP INLET	UG	GAS
EB	ELECTRIC BOX	UGT	TELEPHONE/CABLE/FIBER OPTIC
EMH	ELECTRICAL MANHOLE	W	WATER
EX.	EXISTING	WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE	YI	YARD INLET
INV	INVERT	(500)	EXISTING CONTOUR
RCP	REINFORCED CONCRETE PIPE	x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		





ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (CENTER-EAST)

Designed by: SR
Drawn by: SR
Checked by: MS
Reviewed by: SR
Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: ANDREW HARRELL
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. P-0105

THE EAST GROUP
Engineering • Surveying • Geomatics
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

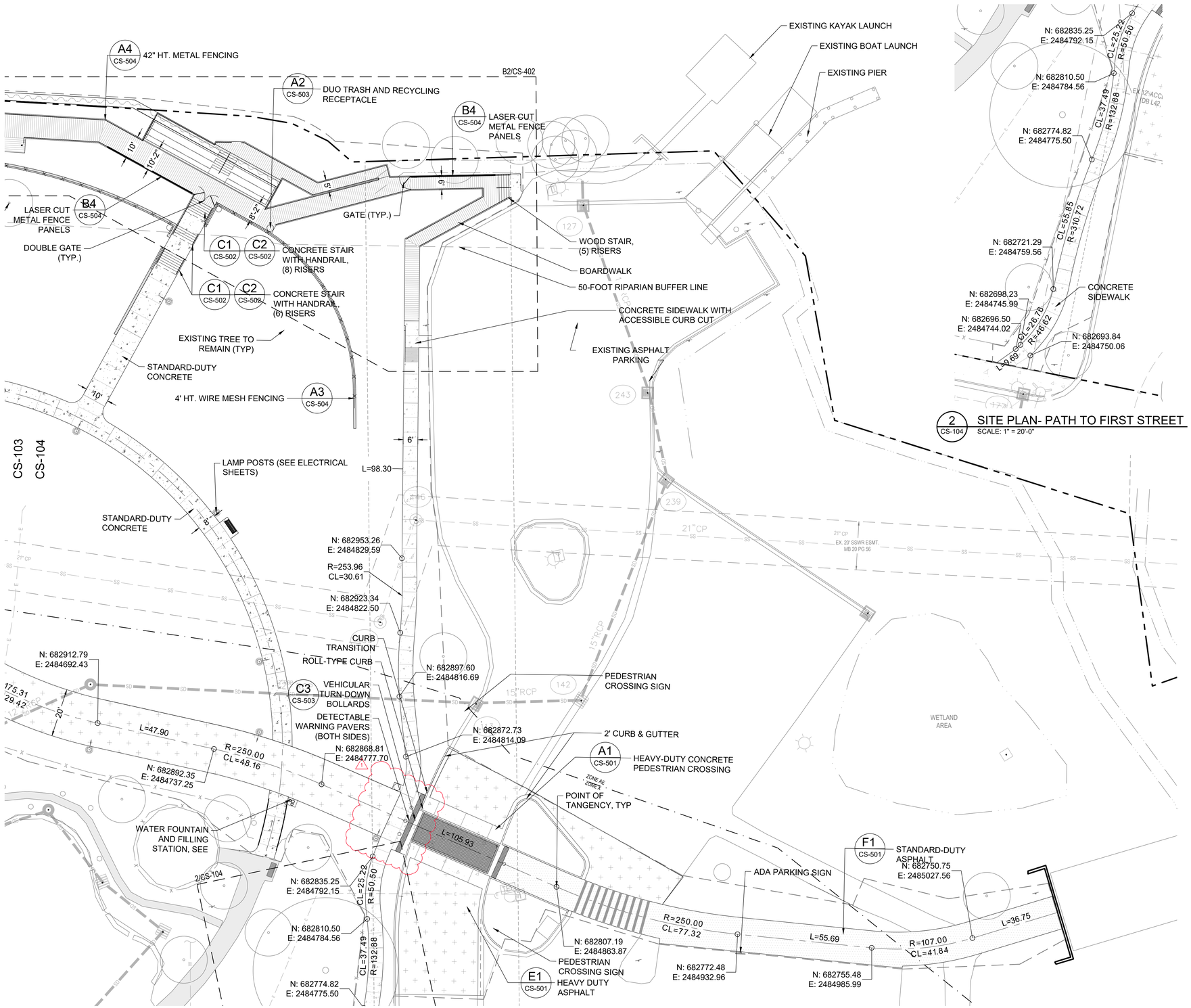
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SHARON RAULERSON
1840
3/2/2025
SEAL

Sheet Reference No.
CS103
INDEX: 46 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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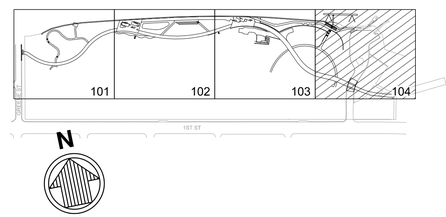
2 CS-104 SITE PLAN- PATH TO FIRST STREET
SCALE: 1" = 20'-0"

SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501

EXISTING MATERIALS LEGEND

AL	AREA LIGHT	SMH	SANITARY MANHOLE
ASW	ASPHALT WALK	SS	SANITARY SEWER
BNCH	BENCH	TBM	TEMPORARY BENCH MARK
CP	CONCRETE PAD	TC	TRASH CAN
CIP	CAST IRON PIPE	TYP.	TYPICAL
CSW	CONCRETE SIDEWALK	UE	ELECTRIC
DI	DROP INLET	UG	GAS
EB	ELECTRIC BOX	UGT	TELEPHONE/CABLE/FIBER OPTIC
EMH	ELECTRICAL MANHOLE	W	WATER
EX.	EXISTING	WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE	YI	YARD INLET
INV	INVERT	(500)	EXISTING CONTOUR
RCP	REINFORCED CONCRETE PIPE	x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		



ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (EAST)

Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Designed by: SR
Drawn by: SR
Cad by: MS
Reviewed by: SR
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105
moffatt & nichol

324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427
THE EAST GROUP
Planning Surveying Technology

Submitted by: MARK MORELLO
MOFFATT & NICHOL

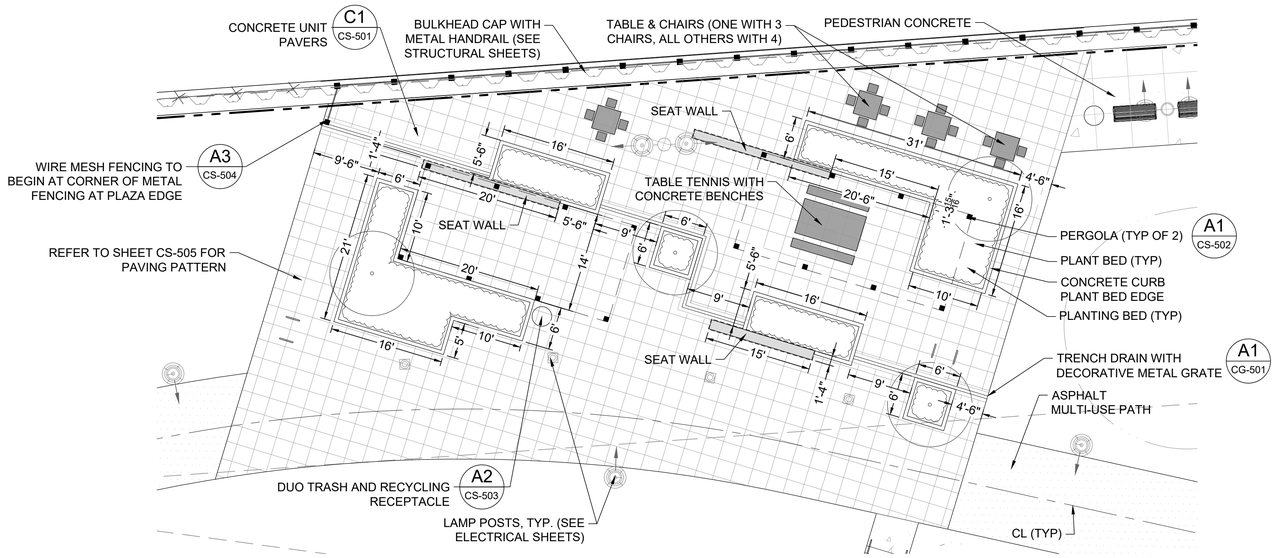
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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHEA
SEAL
3/3/2025

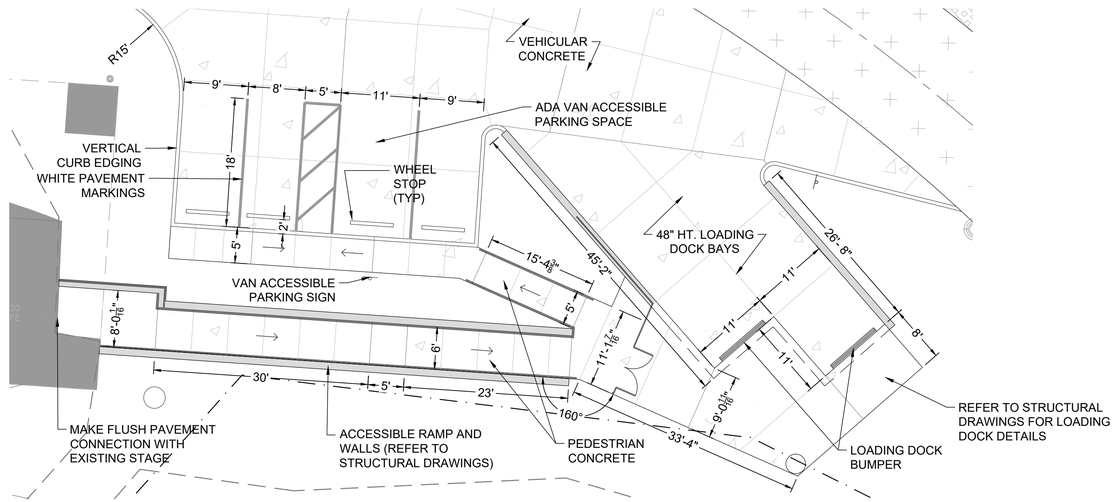
Sheet Reference No.
CS104
INDEX: 47 OF 114

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Saved: 2/27/2025 5:20 PM by ANDREW HARRELL

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C2 CS-401 **WEST PLAZA SITE ENLARGEMENT**
SCALE: 1"=10'-0"



B2 CS-401 **AMPHITHEATER SITE ENLARGEMENT**
SCALE: 1"=10'-0"

SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501

EXISTING MATERIALS LEGEND

AL	AREA LIGHT	SMH	SANITARY MANHOLE
ASW	ASPHALT WALK	SS	SANITARY SEWER
BNCH	BENCH	TBM	TEMPORARY BENCH MARK
CP	CONCRETE PAD	TC	TRASH CAN
CIP	CAST IRON PIPE	TYP.	TYPICAL
CSW	CONCRETE SIDEWALK	UE	ELECTRIC
DI	DROP INLET	UG	GAS
EB	ELECTRIC BOX	UGT	TELEPHONE/CABLE/FIBER
EMH	ELECTRICAL MANHOLE		OPTIC
EX.	EXISTING	W	WATER
ICV	IRRIGATION CONTROL VALVE	WV	WATER VALVE
INV	INVERT	YI	YARD INLET
RCP	REINFORCED CONCRETE PIPE	(500)	EXISTING CONTOUR
SD	STORM DRAIN	x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SI	SIGN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)

10' 0' 10' 20'
SCALE: 1"=10'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE PLAN ENLARGEMENT

Designed by: SR
Drawn by: SR
Reviewed by: SR
Submitted by: MARK POWELL
MOFFATT & NICHOL
Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (1D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering • Surveying • Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

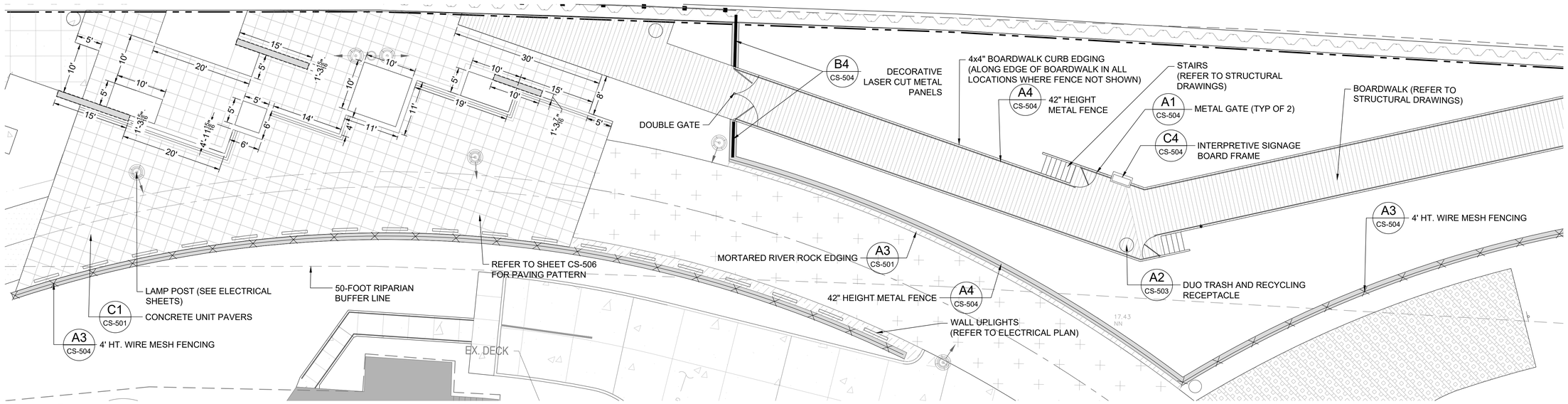
SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RAE HOLLO
3/2/2025
SEAL

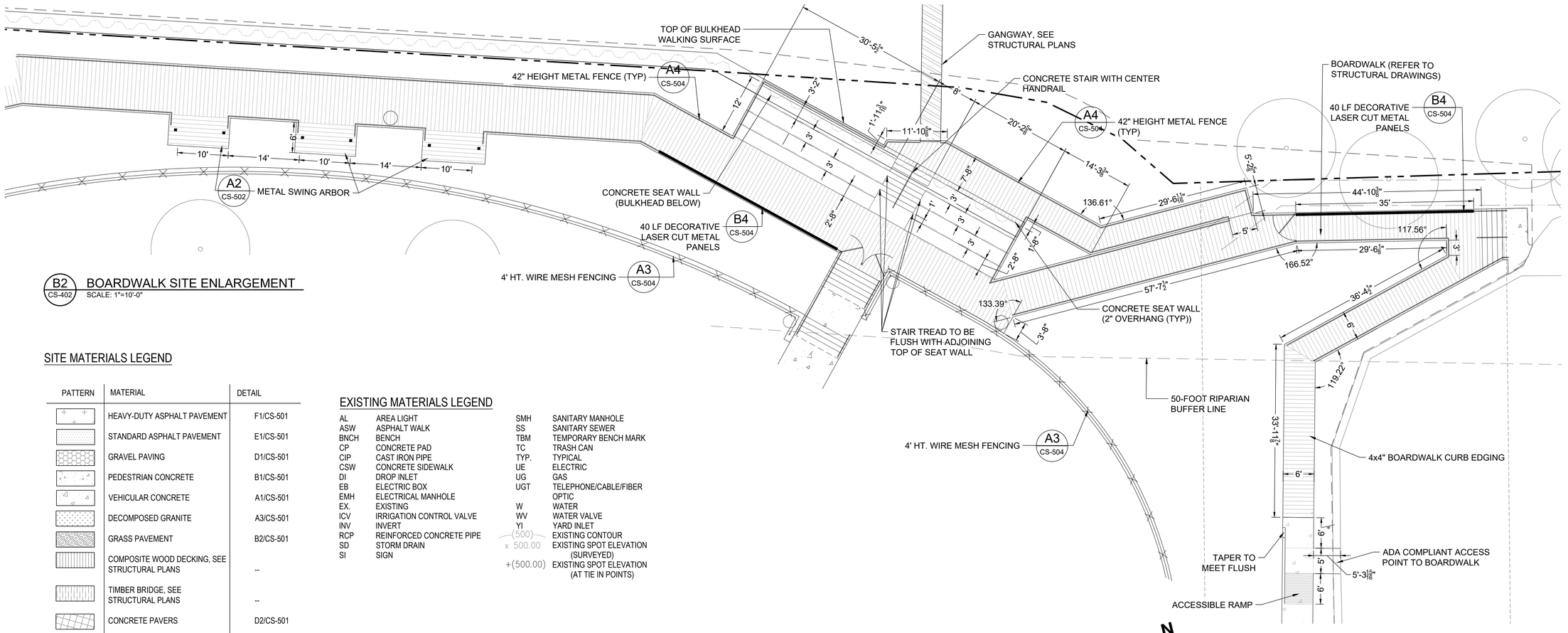
Sheet Reference No.
CS401
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Saved: 2/27/2025 5:20 PM by ANDREW.HARRELL

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



D2 CS-402 EAST PLAZA AND BOARDWALK ENLARGEMENT
SCALE: 1"=10'-0"



B2 CS-402 BOARDWALK SITE ENLARGEMENT
SCALE: 1"=10'-0"

SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	F1/CS-501
	STANDARD ASPHALT PAVEMENT	E1/CS-501
	GRAVEL PAVING	D1/CS-501
	PEDESTRIAN CONCRETE	B1/CS-501
	VEHICULAR CONCRETE	A1/CS-501
	DECOMPOSED GRANITE	A3/CS-501
	GRASS PAVEMENT	B2/CS-501
	COMPOSITE WOOD DECKING, SEE STRUCTURAL PLANS	--
	TIMBER BRIDGE, SEE STRUCTURAL PLANS	--
	CONCRETE PAVERS	D2/CS-501

EXISTING MATERIALS LEGEND

AL	AREA LIGHT	SMH	SANITARY MANHOLE
ASW	ASPHALT WALK	SS	SANITARY SEWER
BNCH	BENCH	TBM	TEMPORARY BENCH MARK
CP	CONCRETE PAD	TC	TRASH CAN
CIP	CAST IRON PIPE	TYP.	TYPICAL
CSW	CONCRETE SIDEWALK	UE	ELECTRIC
DI	DROP INLET	UG	GAS
EB	ELECTRIC BOX	UGT	TELEPHONE/CABLE/FIBER OPTIC
EMH	ELECTRICAL MANHOLE	W	WATER
EX.	EXISTING	WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE	YI	YARD INLET
INV	INVERT	(500)	EXISTING CONTOUR
RCP	REINFORCED CONCRETE PIPE	x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE PLAN ENLARGEMENT

Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: SR
Drawn by: SR
Checked by: MS
Reviewed by: SR
Submitted by: ANDREW HARRELL
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

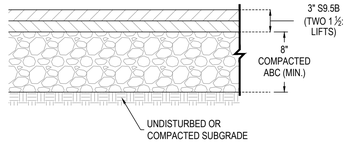
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SEAL

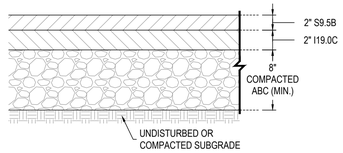
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CS402
INDEX: 49 OF 114

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Saved: 2/27/2025 5:20 PM by ANDREW HARRELL

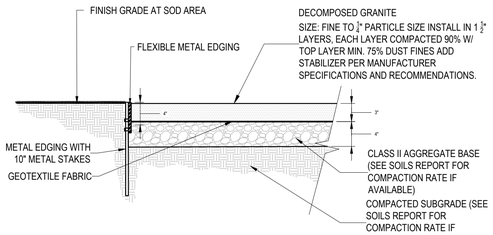
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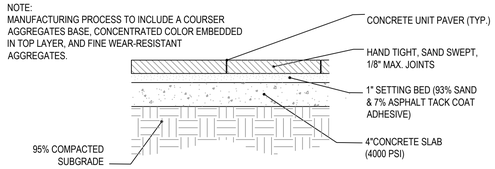
F1 STANDARD ASPHALT PAVEMENT
CS-501 SCALE: NTS



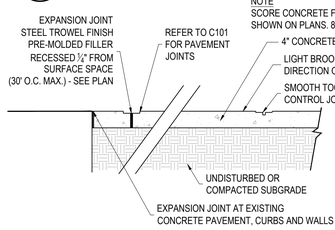
E1 HEAVY-DUTY ASPHALT PAVEMENT
CS-501 SCALE: NTS



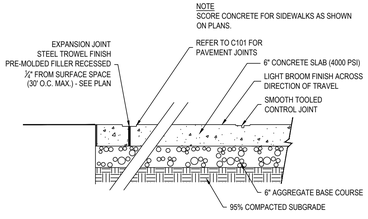
D1 DECOMPOSED GRANITE PATH
CS-501 SCALE: NTS



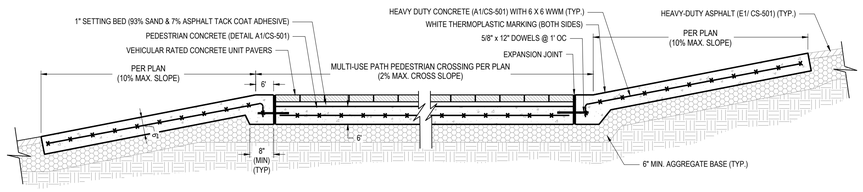
C1 PEDESTRIAN CONCRETE UNIT PAVERS
CS-501 SCALE: NTS



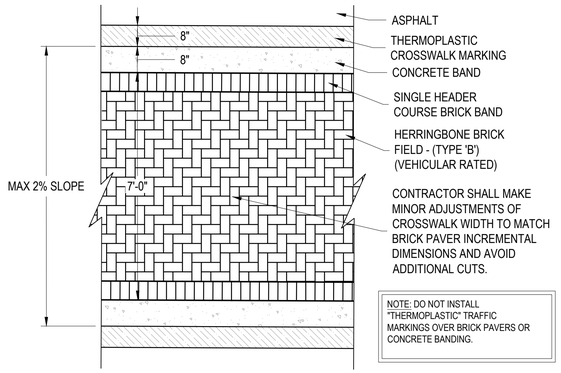
B1 PEDESTRIAN CONCRETE
CS-501 SCALE: NTS



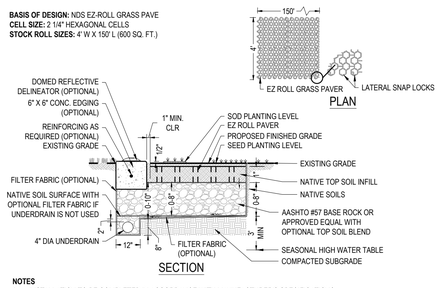
A1 HEAVY DUTY CONCRETE
CS-501 SCALE: NTS



E2 PEDESTRIAN CROSSWALK
CS-501 SCALE: NTS

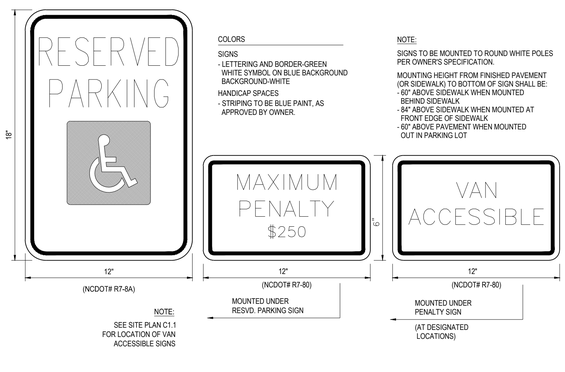


D2 CROSSWALK PAVING PATTERN
CS-501 SCALE: NTS

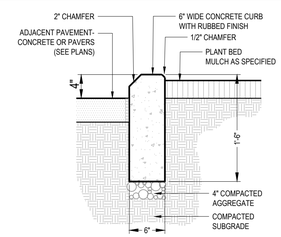


NOTES
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
3. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

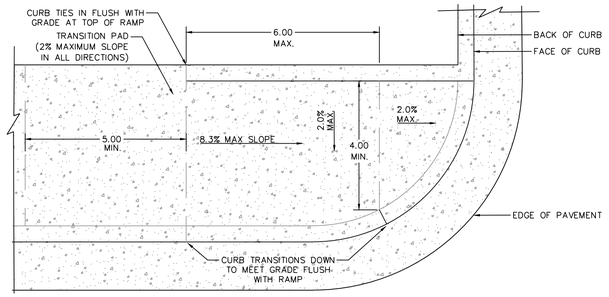
B2 GRASS PAVEMENT
CS-501 SCALE: NTS



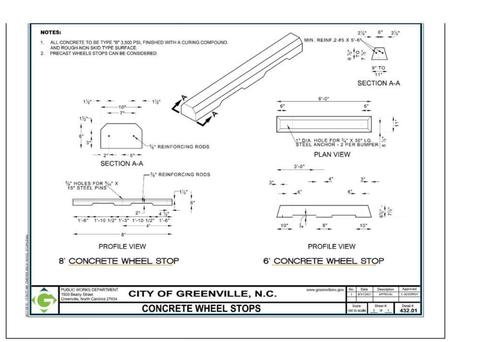
A2 ADA PARKING SIGNAGE
CS-501 SCALE: NTS



E4 PLANT BED CURB EDGING
CS-501 SCALE: NTS

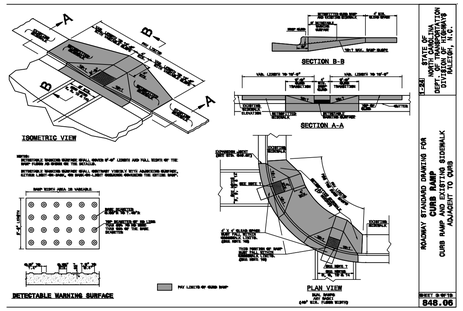


D3 CURB RETURN ACCESSIBLE RAMP
CS-501 SCALE: NTS

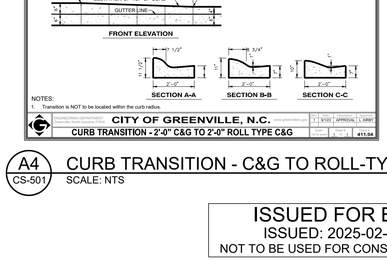


B3 CONCRETE WHEEL STOPS
CS-501 SCALE: NTS

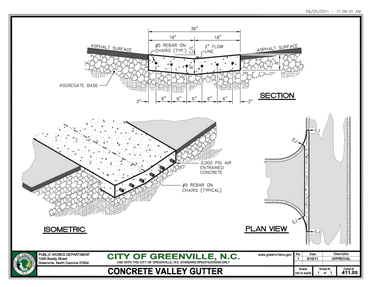
A3 MORTARED RIVER ROCK EDGING
CS-501 SCALE: NTS



D4 CURB RAMP & EXISTING SIDEWALK
CS-502 SCALE: NTS



C4 STANDARD CURB & GUTTER
CS-501 SCALE: NTS



B4 VALLEY GUTTER
CS-501 SCALE: NTS

A4 CURB TRANSITION - C&G TO ROLL-TYPE C&G
CS-501 SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

Designed by: SR
Drawn by: SR
Reviewed by: SR
Date: 02/07/2025
Chkd by: MS
Drawing scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev.
MAN Project No. 221315-02
Drawing code:
Submitted by: MARK MORELLO, MOFFATT & NICHOL

4700 FALLS OF NEUSE RD., SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105
moffatt & nichol

324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427
THE EAST GROUP
Engineering • Surveying • Technology

SEAL

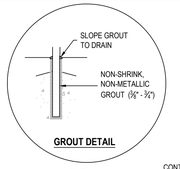
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RENEE MOFFATT A28881 EXPIRES 12/31/2025
SEAL

Sheet Reference No.
CS501
INDEX: 50 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

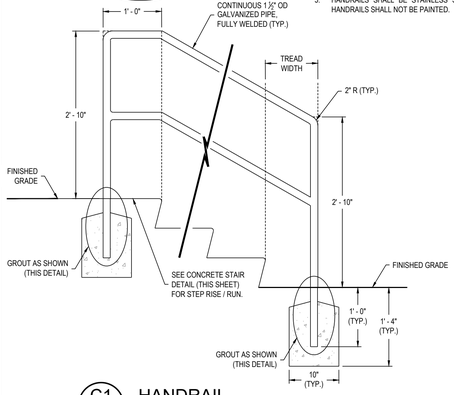
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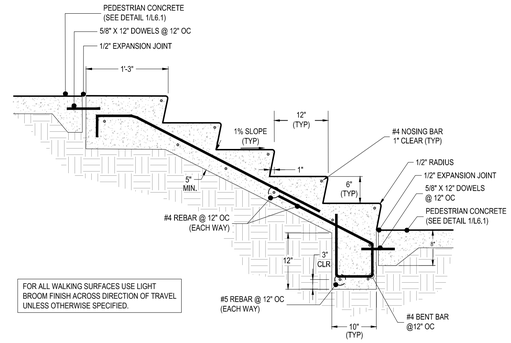
GROUT DETAIL

NOTES:

1. PROVIDE INTERMEDIATE VERTICAL RAIL FOR HANDRAIL IF MORE THAN THREE STEPS.
2. RAIL SHALL MATCH THE SLOPE OF THE WALK OR STEPS, PARALLEL TO THE SURFACE.
3. VERTICAL POSTS PROVIDED AT NO GREATER THAN 5' OC, WITH EQUIDISTANT SPACING.
4. HANDRAILS SHALL HAVE PLUMB VERTICAL MEMBERS. WELD ALL AROUND AND CHIP SMOOTH.
5. HANDRAILS SHALL BE STAINLESS STEEL. HANDRAILS SHALL NOT BE PAINTED.

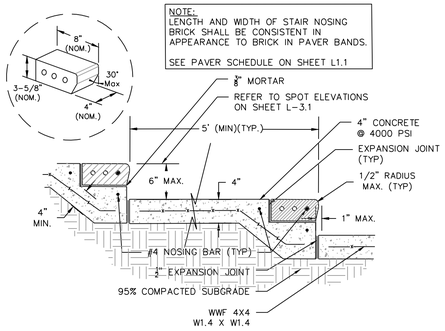


C1 CS-502 HANDRAIL
SCALE: NTS

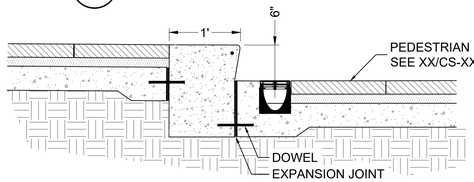


FOR ALL WALKING SURFACES USE LIGHT BROOM FINISH ACROSS DIRECTION OF TRAVEL UNLESS OTHERWISE SPECIFIED.

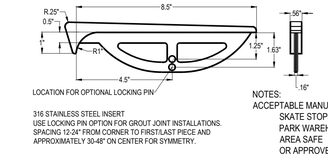
C2 CS-502 CONCRETE STAIRS
SCALE: NTS



D3 CS-502 5' TREAD STEPS
SCALE: NTS



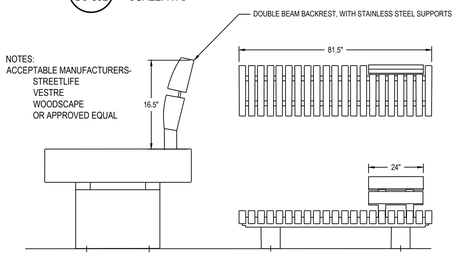
C3 CS-502 SINGLE STEP IN EAST PLAZA
SCALE: NTS



316 STAINLESS STEEL INSERT
USE LOCKING PIN OPTION FOR GROUT JOINT INSTALLATIONS.
SPACING 12-24" FROM CORNER TO FIRST/LAST PIECE AND APPROXIMATELY 30-48" ON CENTER FOR SYMMETRY.

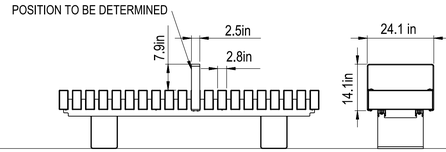
NOTES:
ACCEPTABLE MANUFACTURERS-
SKATE STOPPERS
PARK WAREHOUSE
AREA SAFE
OR APPROVED EQUAL

C4 CS-502 SKATE DETERRENTS
SCALE: NTS



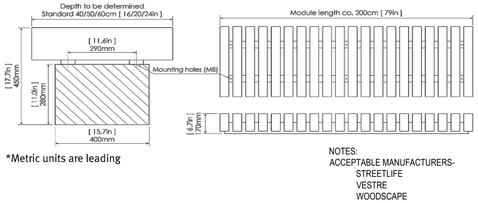
NOTES:
ACCEPTABLE MANUFACTURERS-
STREETLIFE
VESTRE
WOODSCAPE
OR APPROVED EQUAL

B1 CS-502 SEAT WALL BENCH TOPPER BACKREST
SCALE: NTS



NOTES:
ACCEPTABLE MANUFACTURERS-
STREETLIFE
VESTRE
WOODSCAPE
OR APPROVED EQUAL

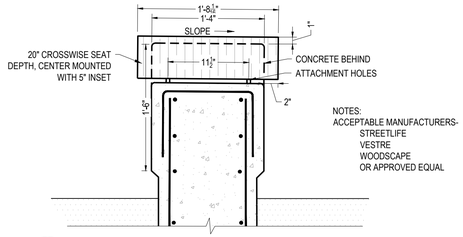
B2 CS-502 SEAT WALL BENCH ARM REST
SCALE: NTS



*Metric units are leading

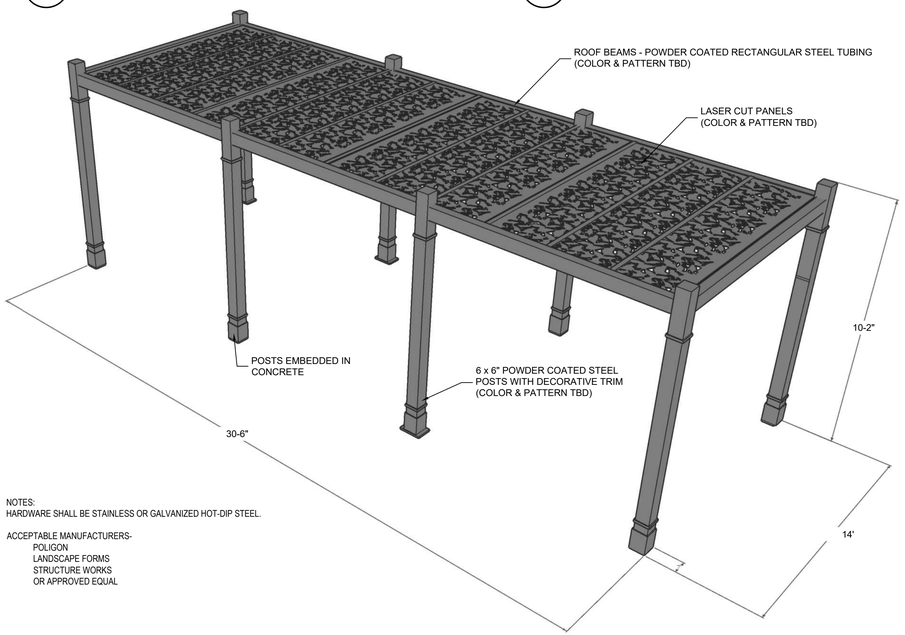
NOTES:
ACCEPTABLE MANUFACTURERS-
STREETLIFE
VESTRE
WOODSCAPE
OR APPROVED EQUAL

B3 CS-502 SEAT WALL BENCH TOPPERS
SCALE: NTS



NOTES:
ACCEPTABLE MANUFACTURERS-
STREETLIFE
VESTRE
WOODSCAPE
OR APPROVED EQUAL

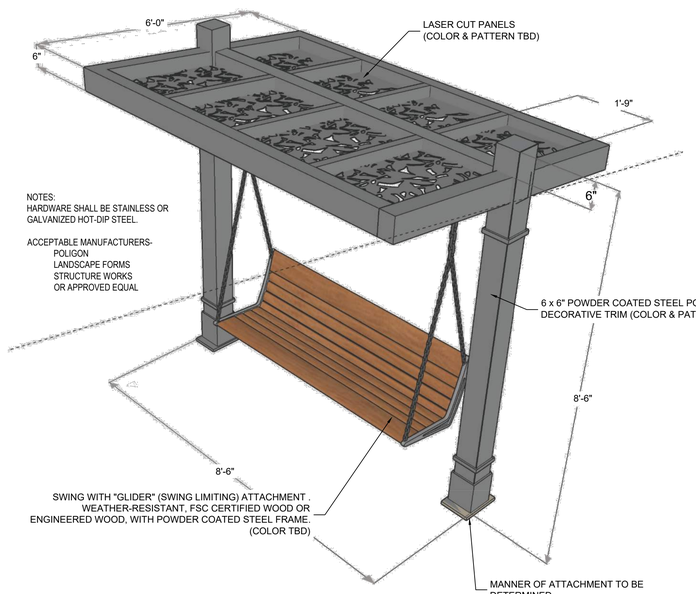
B4 CS-502 BENCH TOPPER INSET
SCALE: NTS



NOTES:
HARDWARE SHALL BE STAINLESS OR GALVANIZED HOT-DIP STEEL.

ACCEPTABLE MANUFACTURERS-
POLIGON
LANDSCAPE FORMS
STRUCTURE WORKS
OR APPROVED EQUAL

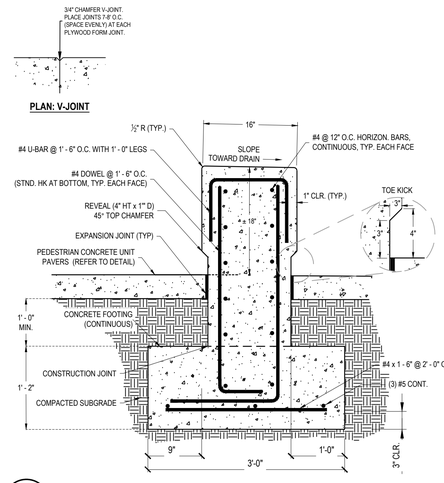
A1 CS-502 10'-6" X 30' X 10' METAL PERGOLA
SCALE: NTS



NOTES:
HARDWARE SHALL BE STAINLESS OR GALVANIZED HOT-DIP STEEL.

ACCEPTABLE MANUFACTURERS-
POLIGON
LANDSCAPE FORMS
STRUCTURE WORKS
OR APPROVED EQUAL

A2 CS-502 METAL SWING ARBOR
SCALE: NTS



A3 CS-502 CAST-IN-PLACE SEATWALL/ FREESTANDING
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-03-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

		Rev.
Designed by: SR	Date: 02/07/2025	
Dwn by: SR	Cad by: MS	MAN Project No. 221315-02
Reviewed by: SR	Drawing code:	
Submitted by: MARK MORELLO MOFFATT & NICHOL	Plot scale: 1:1 (D SHEET)	Drawing Scale: AS SHOWN

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RAILEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-2005
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

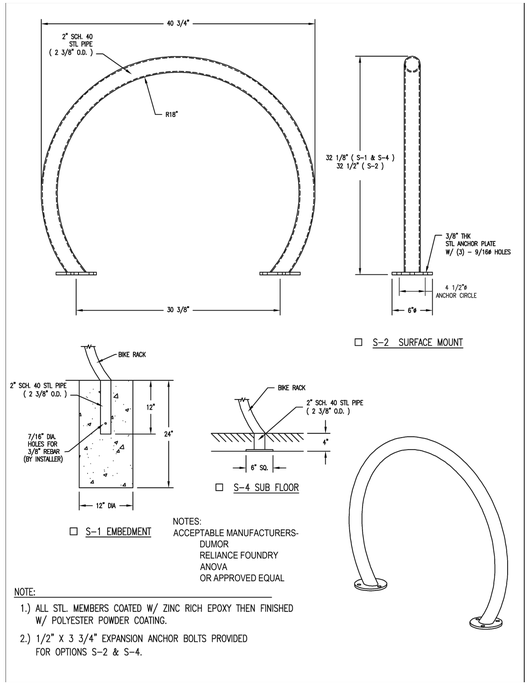
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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RAU A-2289 EXPIRES 6/30/2025 3/2/2025

Sheet Reference No.
CS502
INDEX: 51 OF 114

File: K:\01_Projects\Greenville, City of\22322217 M&N COG Town Com Bulkhead\dwg\3 Construction Plans\SHEETS\LA Sheet Set\20222217_CS-501_SITE_DTLS ; Plotted: 2/27/2025 5:56 PM by ANDREW HARRELL ; Saved: 2/27/2025 5:04 PM by ANDREW HARRELL

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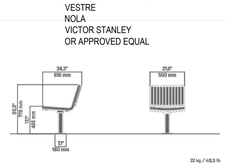


NOTE:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR OPTIONS S-2 & S-4.

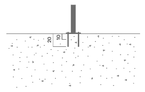
NOTES:
ACCEPTABLE MANUFACTURERS-
DUMOR
RELIANCE FOUNDRY
ANOVA
OR APPROVED EQUAL

C1 BIKE RACK
CS-503 SCALE: NTS

NOTES:
ACCEPTABLE MANUFACTURERS-
VESTRE
NOLA
VICTOR STANLEY
OR APPROVED EQUAL



Anchoring/assembly
Type A - Base plate



Primary material
Hot-dip galvanised steel
All steel components are hot-dip galvanised, which produces a matt grey surface after a while. We offer a lifetime anti-rust warranty. Corrosion class C4

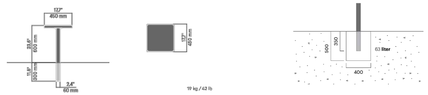


8 mm

Available as a swivel version

D2 ANCHORED SWIVEL WOOD SLAT CHAIR
CS-503 SCALE: NTS

Anchoring/assembly
Type C - Concreting



Primary material
Hot-dip galvanised and powder-coated steel
The powder coating process was developed to satisfy the tough requirements of the Norwegian offshore industry. Corrosion class C5-M

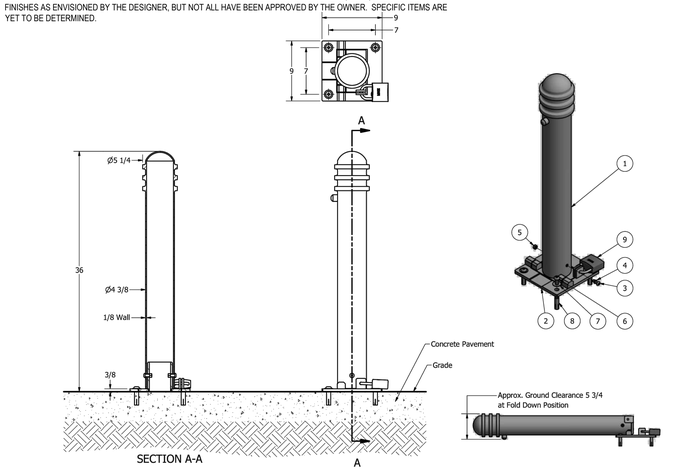


8 mm

NOTES:
ACCEPTABLE MANUFACTURERS-
VESTRE
NOLA
VICTOR STANLEY
OR APPROVED EQUAL

C2 GALVANISED STEEL SQUARE TABLE
CS-503 SCALE: NTS

NOTE:
ALL SITE FURNISHINGS SHOWN ON THIS SHEET ARE REPRESENTATIVE OF MANUFACTURERS, TYPE, COLORS AND FINISHES AS ENVISIONED BY THE DESIGNER, BUT NOT ALL HAVE BEEN APPROVED BY THE OWNER. SPECIFIC ITEMS ARE YET TO BE DETERMINED.



Fold Down Mount

General Description:
Clearly communicate intended routes and access regulations on your street-scape with this steel bollard. Composed of standard steel and finished with a durable powder-coating, it is an aesthetically versatile device that complements the architecture of almost any site. This bollard can be installed with a standard fixed mounting or with a removable or fold down mountings that all temporary access to maintenance, delivery or emergency vehicles. Seven powder coating color options are available and is kept in stock and available for immediate shipment.

Specifications:
Height: 36" (Above Grade)

Base Diameter: 4 3/8"

Weight: 33 lbs (Bollard Post Full Length)

Material: Steel (ASTM A36)

Finish Options:
- ✓ Polyester Powdercoated

Mount Options:
- ○ Removable Receiver with Lid
- ○ Removable Receiver with Chain
- ○ Fixed Embedded Mount
- ○ Flanged Surface Mount
- ✓ Fold Down Mount
- ○ Optional Chain Accessory

Notes:
- Embedment details are for reference illustration only. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
- Bollard post is provided as shown, with material detailed in legend below. Concrete, foundation and/or installation ordered separately or provided by others.
- This drawing is not drawn to scale. Dimensions provided herein is for reference only.

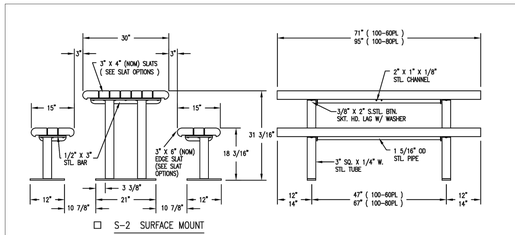
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7901 Fold Down Bollard	R7901 Fold Down Bollard Assembly	Steel Powder Coated	29 lbs
2	1	R7950A Fold Down Base	R7950A Fold Down Base Assembly	Steel HDG	15 lbs
3	2	Button Head Bolt 3/8" x 1"	Hexagon Socket Button Head Cap Bolt 3/8" x 1" - requires 7/32" hex key	Stainless Steel	
4	2	O-Ring 3/8"	Nitrile Rubber O-Ring 3/8"	Nitrile Rubber	
5	2	Hex Nut Nylon Lock 3/8"	Hex Nut Nylon Lock 3/8" - requires 9/16" wrench	Steel Plated Nylon Lock	
6	4	Button Head Bolt 1/2" x 1 1/4"	Hexagon Socket Button Head Cap Bolt 1/2" x 1 1/4" - requires 5/16" hex key	Stainless Steel	1/8 lbs
7	4	Stainless Steel Washer 1/2"	Stainless Steel Washer 1/2" OD 1 1/4" Thick .05"	Stainless Steel	
8	4	Drop-in Concrete Insert 1/2"	Drop-in Concrete Insert 1/2" - requires 5/8" x 2" hole (dia. x depth)	Steel Plated	1/8 lbs
9	1	Padlock (Optional)	Optional Padlock (Brass or Stainless Steel)	Choice of Brass or Stainless Steel	5/8 lbs

NOT TO SCALE

NOTES:
ACCEPTABLE MANUFACTURERS-
RELIANCE FOUNDRY
SUPERIOR BOLLARDS
IRON AGE
OR APPROVED EQUAL

C3 COLLAPSIBLE BOLLARD
CS-503 SCALE: NTS



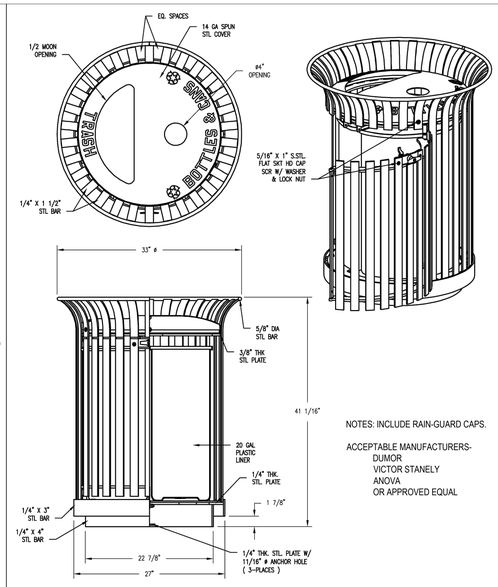
NOTES:
ACCEPTABLE MANUFACTURERS-
DUMOR
LANDSCAPE FORMS
VICTOR STANELY
OR APPROVED EQUAL

LENGTH OPTIONS
- ☐ 6' TABLE
- ☐ 8' TABLE

SLAT OPTIONS
- ☐ "CEDAR" RECYCLED PLASTIC
- ☐ "GREY" RECYCLED PLASTIC
- ☐ "REDWOOD" RECYCLED PLASTIC
- ☐ "WALNUT" RECYCLED PLASTIC
- ☐ OTHER _____

NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED. FOR OPTIONS S-2 & S-4.

A1 8' RECYCLED PLASTIC PICNIC TABLE
CS-503 SCALE: NTS

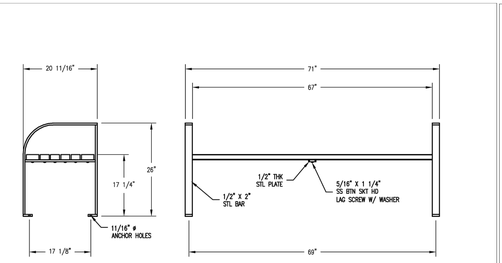


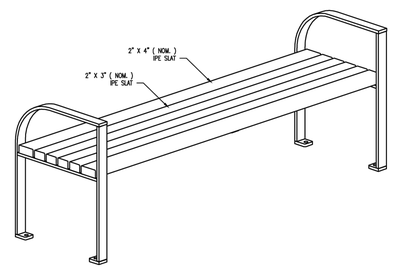
NOTES: INCLUDE RAIN-GUARD CAPS.

ACCEPTABLE MANUFACTURERS-
DUMOR
VICTOR STANELY
ANOVA
OR APPROVED EQUAL

NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) LATCH PROVIDED W/ KEY, USE OF KEY OPTIONAL.

A2 DUO TRASH & RECYCLING RECEPTACLE
CS-503 SCALE: NTS



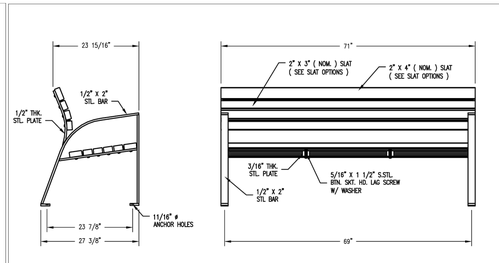


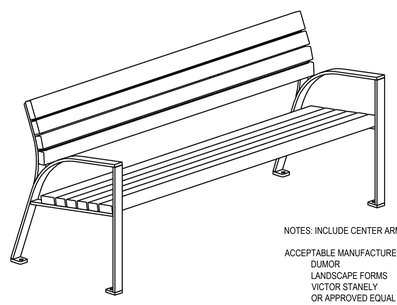
NOTES: INCLUDE CENTER ARMREST

ACCEPTABLE MANUFACTURERS-
DUMOR
LANDSCAPE FORMS
VICTOR STANLEY
OR APPROVED EQUAL

NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

A3 BACKLESS BENCH
CS-503 SCALE: NTS





NOTES: INCLUDE CENTER ARMREST

ACCEPTABLE MANUFACTURERS-
DUMOR
LANDSCAPE FORMS
VICTOR STANELY
OR APPROVED EQUAL

NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

SLAT OPTIONS
- ☐ ANTIQUE MAHOGANY TEXTURED
- ☐ BRAZILIAN WALNUT TEXTURED
- ☐ OTHER _____

A4 BACKED BENCH
CS-503 SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Date	Description	By
0	2025-01-27	ISSUED FOR BID	
1	2025-02-28	ADDENDUM NO. 1	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

Designed by: SR | Drawn by: SR | Cad by: MS | Reviewed by: SR | Drawing code:
Date: 09/23/24 | MAN Project No. 221315-02 | Drawing Scale: AS SHOWN | Plot scale: 1:1 (D SHEET)

Submitted by: LAUREN PERELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering : Surveying : Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHUE A.28981EA/A.28982EA
9/2/2025
SEAL

Sheet Reference No.
CS503
INDEX: 52 OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

File: K:\01_Projects\Greenville, City of\2022\22177 M&N COG Town Cont Bulkhead\dwg\3 Construction Plans\SHEETS\LA Sheet Set\20222217_CS-501_SITE_DTLS , Plotted: 2/27/2025 7:46 PM by ANDREW HARRELL , Saved: 2/27/2025 5:04 PM by ANDREW HARRELL

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

MOUNTING INSTRUCTIONS and PLUMBING CONNECTIONS

Provide solid, well-drained surface to mount pedestal fountain (concrete pad recommended). Mount on a smooth, flat, finished surface with adequate support (300 lb. load minimum). Secure unit with (4) 3/8" minimum fasteners (not included). Refer to rough-in. Should be attached firmly to mounting surface in order to secure unit.

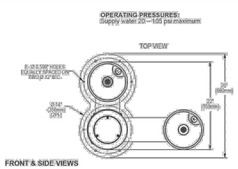
Modified low stream height bubbler for pet fountain.

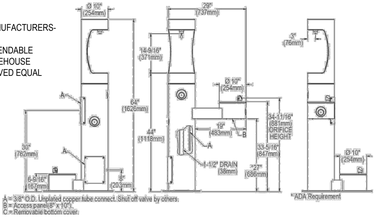
Locate and install plumbing through ground as required.

NOTE: Unit is not furnished with service valve.

Position pedestal over plumbing and secure base to fasteners. Remove access panels and connect supply and water lines. Turn on water supply and check for leaks. Reassemble access panels to pedestal.
Trap and service stop not included.

OPERATING PRESSURES:
Supply water 20—105 psi maximum





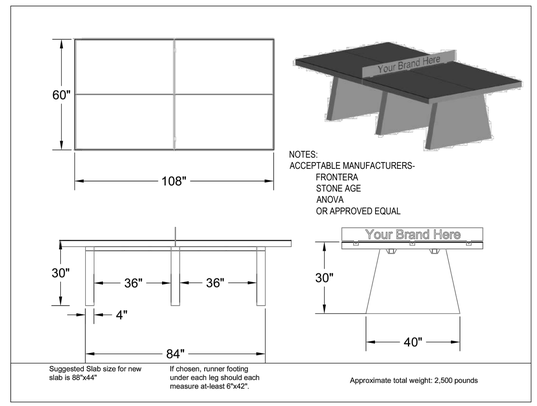
NOTES:
ACCEPTABLE MANUFACTURERS-
ELKAY
MOST DEPENDABLE
PARK WAREHOUSE
OR APPROVED EQUAL

C1 OUTDOOR BOTTLE FILLING STATION
CS-504 SCALE: NTS



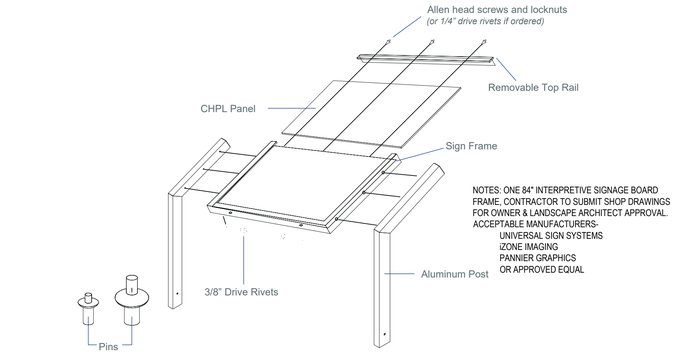
NOTES: TWO 84" CONCRETE BENCHES TO COORDINATE WITH CONCRETE OUTDOOR TABLE TENNIS TABLE. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR OWNER & LANDSCAPE ARCHITECT APPROVAL.
ACCEPTABLE MANUFACTURERS-
FRONTERA
STONE AGE
ANOVA
OR APPROVED EQUAL

C2 OUTDOOR TABLE TENNIS BENCHES
CS-504 SCALE: NTS



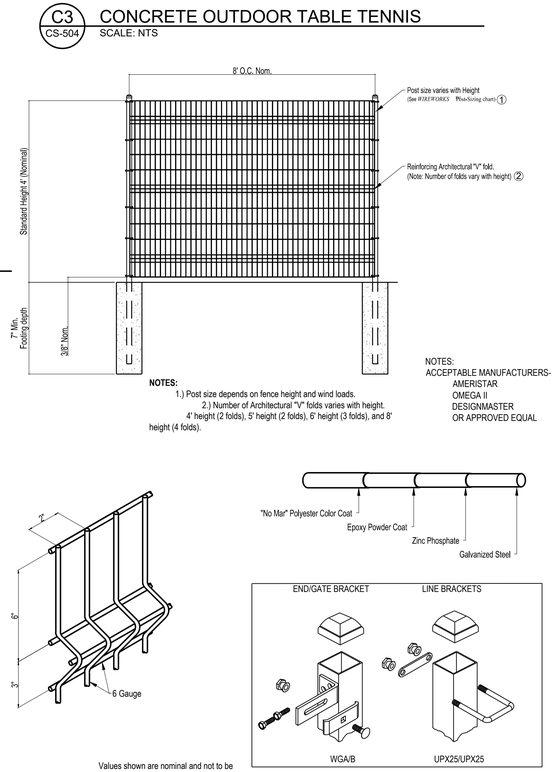
NOTES:
ACCEPTABLE MANUFACTURERS-
FRONTERA
STONE AGE
ANOVA
OR APPROVED EQUAL

C3 CONCRETE OUTDOOR TABLE TENNIS
CS-504 SCALE: NTS



NOTES: ONE 84" INTERPRETIVE SIGNAGE BOARD FRAME. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR OWNER & LANDSCAPE ARCHITECT APPROVAL.
ACCEPTABLE MANUFACTURERS-
UNIVERSAL SIGN SYSTEMS
IZONE IMAGING
PANNIER GRAPHICS
OR APPROVED EQUAL

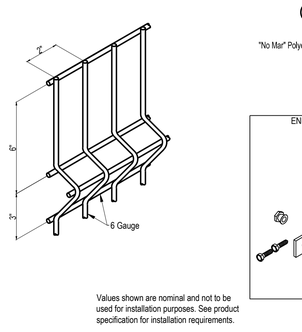
C4 INTERPRETIVE SIGNAGE BOARD FRAME
CS-504 SCALE: NTS



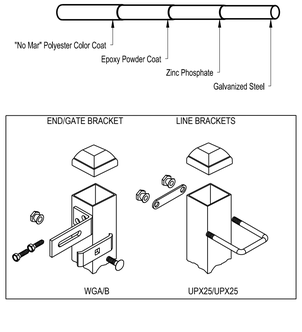
NOTES:
1.) Post size depends on fence height and wind loads.
2.) Number of Architectural "V" folds varies with height.
4' height (2 folds), 5' height (2 folds), 6' height (3 folds), and 8' height (4 folds).

NOTES:
ACCEPTABLE MANUFACTURERS-
AMERISTAR
OMEGA II
DESIGNMASTER
OR APPROVED EQUAL

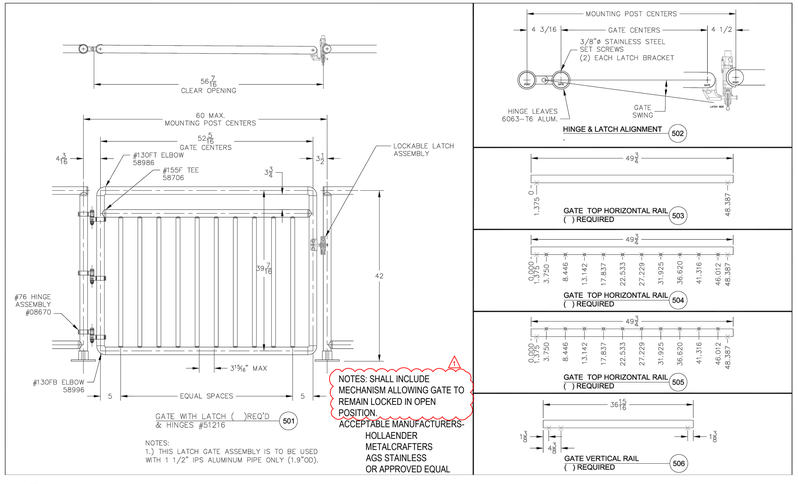
B4 LASER CUT METAL FENCE PANELS
CS-504 SCALE: NTS



Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

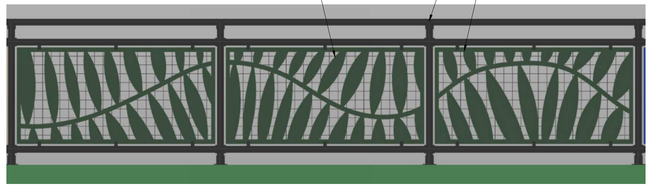


A3 4' HT. WIRE MESH FENCING
CS-504 SCALE: NTS



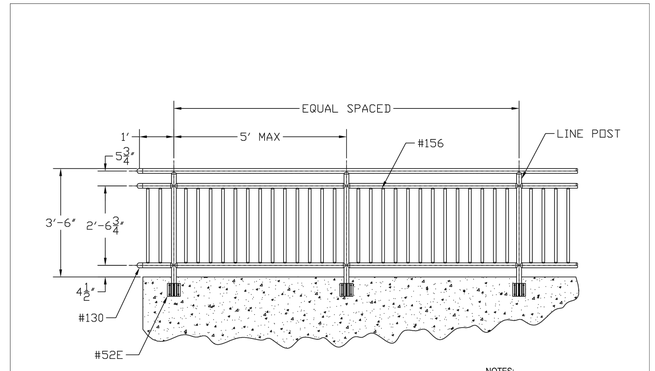
ACCEPTABLE MANUFACTURERS-
HOLLAENDER
METALCRAFTERS
AGS STAINLESS
OR APPROVED EQUAL

A1 42" HT. NON SELF CLOSING GATE
CS-504 SCALE: NTS



NOTE:
CUSTOM ARTIST CREATED METAL PANELS

B4 LASER CUT METAL FENCE PANELS
CS-504 SCALE: NTS



TYPICAL LEVEL PICKET HANDRAIL DETAIL

NOTES:
ACCEPTABLE MANUFACTURERS-
HOLLAENDER
METALCRAFTERS
AGS STAINLESS
OR APPROVED EQUAL

A4 42" HT. METAL FENCING
CS-504 SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

Date: 02/07/2025
Designed by: SR
Drawn by: SR
Reviewed by: SR
M&N Project No. 221315-02
Cad by: MS
Drawing code:
Submitted by: MARIE PINELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev.

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO: F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

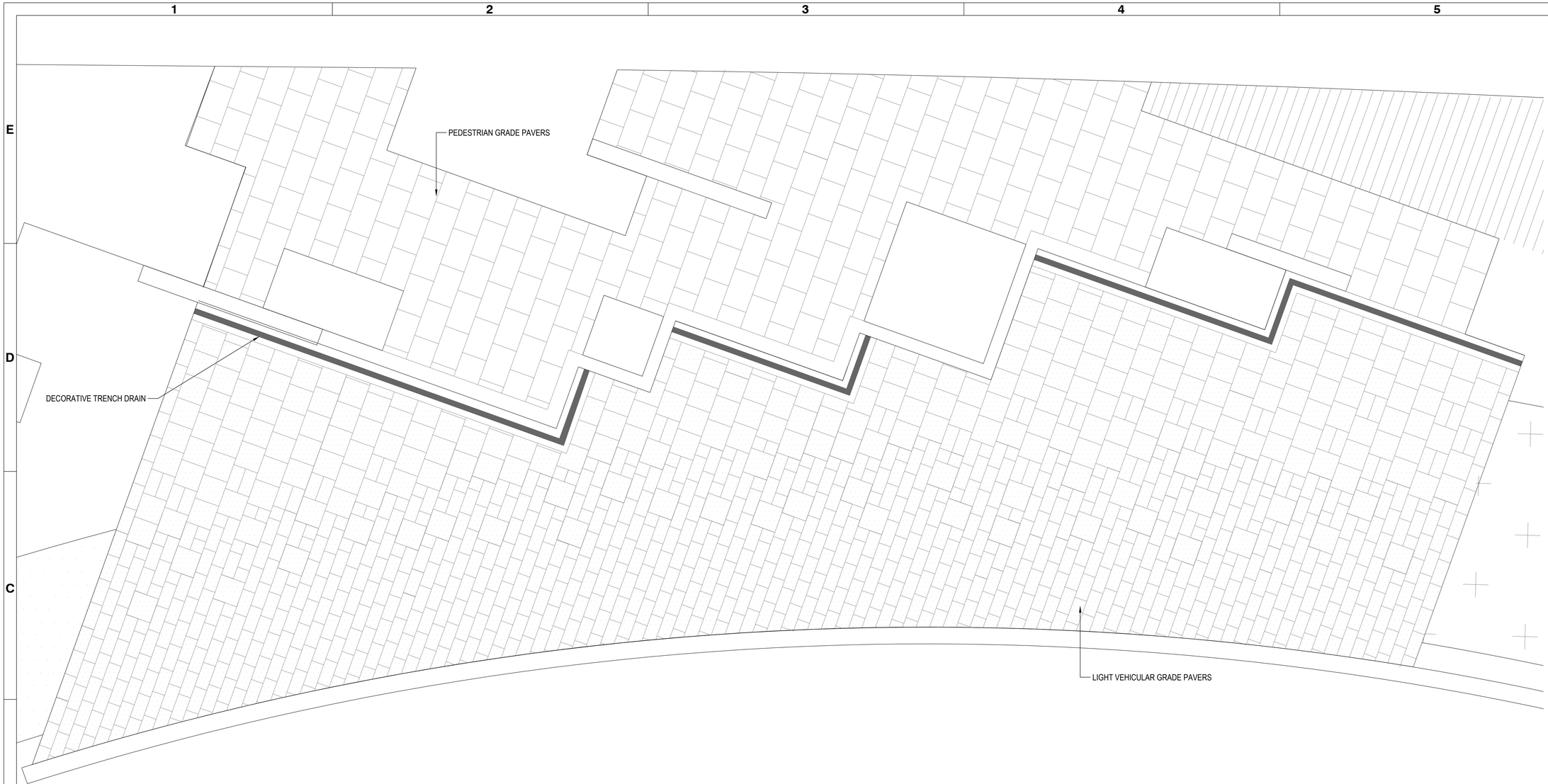
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHEA A2888 EXPIRES 6/30/2025
SEAL

Sheet Reference No.
CS504
INDEX: 53 OF 114

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Saved: 2/27/2025 5:04 PM by ANDREW HARRELL

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



A1 / CS-505 WEST PLAZA PAVING PATTERN
SCALE: 3" = 1'-0"

NOTE:
INTERLOCKING CONCRETE PAVER UNITS, INCLUDING THE FOLLOWING:
Paver Type #1: Light Vehicular 24"x24" x 3-3/8" thick
Paver Type #2: Light Vehicular 24"x12" x 3-3/8" thick
Paver Type #3: Light Vehicular 12"x12"x 3-3/8" thick
Paver Type #4: Pedestrian 24"x36"x 2-3/4" thick
Paver Type #5: Pedestrian 24"x24"x 2-3/4" thick

BASIS OF DESIGN:
COLORS: BEACON HILL SMOOTH - FOSSIL & TUSCANY

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-03-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PAVING PATTERN WEST

Designed by: SR
Drawn by: SR
Cked by: MS
Reviewed by: SR
Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: MARK MORELLO
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering • Surveying • Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RAY
3/2/2025
SEAL

Sheet Reference No.
CS505
INDEX: 54 OF 114

File: K:\01_Projects\Greenville, City of\22220217 M&N COG Town Com Bulkhead\dwg\3 Construction Plans\SHEETS\LA Sheet Set\20220217_CS-501_SITE_DTLS - Plotted: 2/27/2025 5:58 PM by ANDREW HARRELL ; Saved: 2/27/2025 5:04 PM by ANDREW HARRELL

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



B1 / CS-506 EAST PLAZA PAVING PATTERN
SCALE: 3" = 1'-0"

NOTE:
INTERLOCKING CONCRETE PAVER UNITS, INCLUDING THE FOLLOWING:
Paver Type #1: Light Vehicular 24”x24” x 3-3/8” thick
Paver Type #2: Light Vehicular 24”x12” x 3-3/8” thick
Paver Type #3: Light Vehicular 12”x12”x 3-3/8” thick
Paver Type #4: Pedestrian 24”x36”x 2-3/4” thick
Paver Type #5: Pedestrian 24”x24”x 2-3/4” thick

BASIS OF DESIGN:
COLORS: BEACON HILL SMOOTH - FOSSIL & TUSCANY

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-03-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

CS-506 - PAVING PATTERN EAST

Designed by: SR
Drawn by: SR
Checked by: MS
Reviewed by: SR
Submitted by: MARK PERELLO, MOFFATT & NICHOL
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

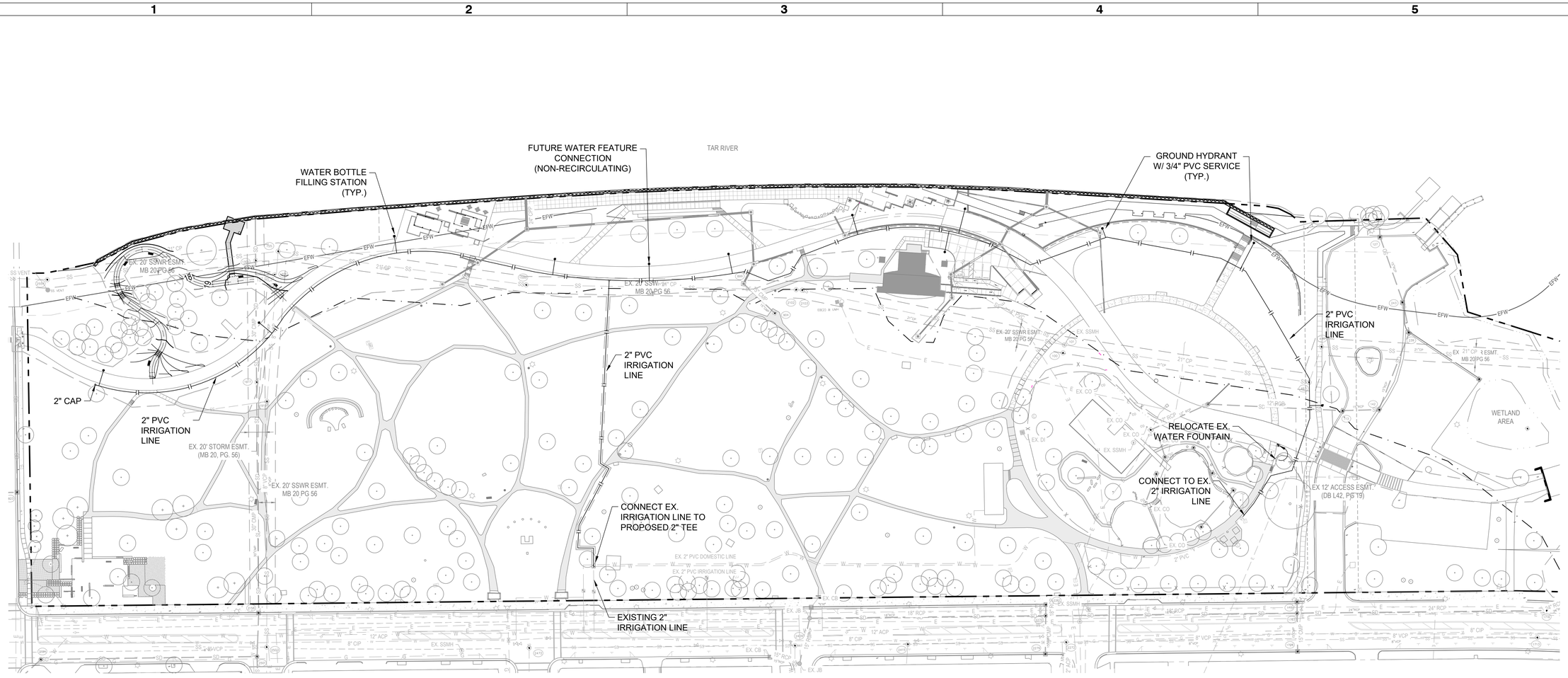
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHULEN
3/3/2025
SEAL

Sheet Reference No.
CS506
INDEX: 55 OF 114

File: K:\01_Projects\Greenville, City of\2023\2217 M&N COG Town Com Bulkhead\dwg\3 Construction Plans\SHEETS\LA Sheet Set\20222217_CS-501_SITE_DTLS ; Plotted: 2/27/2025 5:59 PM by ANDREW.HARRELL ; Saved: 2/27/2025 5:04 PM by ANDREW.HARRELL

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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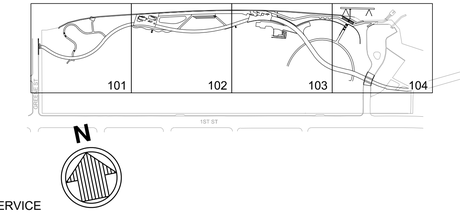


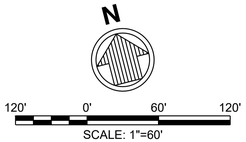
UTILITY NOTES

1. ALL SEWER AND WATER MAIN CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND COORDINATE CONNECTION WITH PROPER AUTHORITIES. CALL NC ONE-CALL CENTER, INC. AT 811 72 HOURS BEFORE ANY EXCAVATION IS BEGUN. AS OF JAN. 1, 1986, ANYONE DIGGING WITH MECHANIZED EQUIPMENT IN HIGHWAY RIGHT-OF-WAY, PRIVATE UTILITY EASEMENTS, OR PUBLIC SPACES WILL BE REQUIRED BY NORTH CAROLINA LAW TO GIVE NOTICE OF THE PROPOSED EXCAVATION TO ALL EXISTING AREA UTILITIES AT LEAST 3 WORKING DAYS BEFORE STARTING TO DIG.
3. THE UTILITY OWNER IS TO LOCATE ITS FACILITIES IN THE AREA OF THE PROPOSED EXCAVATION. UTILITY MEMBERS OF NC ONECALL CAN BE CONTACTED AT 811.
4. CONTRACTOR SHALL NOTIFY UTILITIES ENGINEER 72 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
5. CONTRACTOR TO COORDINATE ALL EXISTING UTILITY TIE INS WITH THE UTILITY ENGINEER. WATER MAINS SHALL BE BURIED A DEPTH OF 36 INCHES UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL MAINTAIN COMPREHENSIVE (DEPTH AND HORIZONTAL LOCATIONS) FIELD "AS-BUILTS" FOR ALL INSTALLATIONS AND SUBMIT TO THE ENGINEER.
7. ALL PERMITS AND FEES REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. WATER SERVICE TO BE PROVIDED TO THIS GENERAL AREA ONCE FOUNTAIN DESIGN & WATER REQUIREMENTS DETERMINED.
9. CONTRACTOR TO CONTACT GUC (252-551-1551) TO SCHEDULE INSPECTION OF ALL STORM PIPE / SEWER MAIN CROSSINGS.

LEGEND

AL	AREA LIGHT
BLRD	BOLLARD
CB	CATCH BASIN
CONC	CONCRETE
CP	CONCRETE PAD
CSW	CONCRETE SIDEWALK
DI	DROP INLET
EB	ELECTRIC BOX
EX.	EXISTING
FFE	FINISH FLOOR ELEVATION
GW	GUY WIRE
INV.	INVERT
JB	JUNCTION BOX
LSA	LANDSCAPE AREA
PP	POWER POLE
RCP	REINFORCED CONCRETE PIPE
SI	SIGN
TYP.	TYPICAL
x 26.00	EX. SPOT ELEVATION
26	EXISTING CONTOUR
SD	EX. STORM DRAIN
	PROPOSED STORM PIPE
FO	FIBER OPTIC
SS	PROPOSED SANITARY SEWER SERVICE
E	OVERHEAD ELECTRIC
SS	SANITARY SEWER
UE	UNDERGROUND ELECTRIC
W	EXISTING WATER MAIN
RD	PROPOSED ROOF DRAIN
UG	PROPOSED NATURAL GAS LINE
###	EXISTING STRUCTURE (SEE SHEET V-001 FOR STRUCTURE INFO)
EFW	EDGE OF FLOODWAY





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ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-26	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

OVERALL UTILITY PLAN

Designed by: AF
Drawn by: AF
Reviewed by: TT
Submitted by: ANDREW HARRELL
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Plot scale: 1:1 (D SHEET)
Drawing Scale: AS SHOWN
Rev.

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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NC FIRM LICENSE NO. F-0105

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NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL Andrew Harrell 039172 ENGINEER
NORTH CAROLINA
02/07/2025

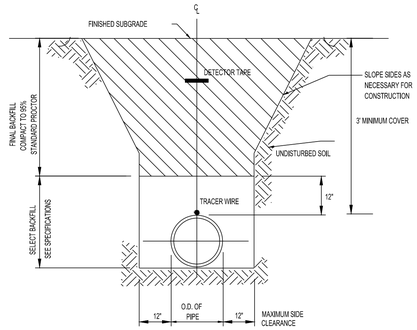
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Sheet Reference No.
CU101
INDEX: 56 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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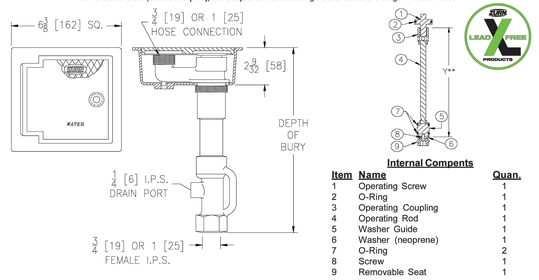


E1 CU-501 WATER PIPE TRENCH
N.T.S.

ZURN **Z1360XL**
GROUND HYDRANT
Encased, Flush Type, Non-Freeze

SPECIFICATION SHEET
TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Internal Compents

Item	Name	Quan.
1	Operating Screw	1
2	O-Ring	1
3	Operating Coupling	1
4	Operating Rod	1
5	Washer Guide	1
6	Washer (neoprene)	1
7	O-Ring	2
8	Screw	1
9	Removable Seat	1

Depth of Bury Feet [mm]	Approx. Wt. lbs [kg]
2 [610]	17 [8]
3 [914]	21 [10]
4 [1219]	25 [11]
5 [1524]	33 [15]
6 [1829]	39 [18]
7 [2134]	43 [20]
8 [2438]	47 [21]
9 [2743]	52 [24]
10 [3048]	56 [25]

ENGINEERING SPECIFICATION: ZURN Z1360XL
Encased, lead-free, non-freeze ground hydrant for flush with grade or finished (non-traffic) floor installation. Hydrant features galvanized steel casing, bronze and stainless steel interior components, bronze seat and replaceable seat washer, non-turning operating rod and, free-floating compression closure valve with 3/4" [19] or 1" [25] inlet connection with 1/4" [6] tapped drainage port on housing, and 3/4" [19] or 1" [25] male hose connection. Hydrant furnished with plain bronze box and locking hinged, scoriated cover stamped "WATER" and includes operating key.

Zurn "XL" Lead-Free compliant products are a line of durable plumbing products designed and manufactured to comply with state laws and local codes that mandate maximum allowable lead content levels. Zurn "XL" products are manufactured in accordance to the Federal SWDA section 1417.

CONNECTION TYPE:
____ 3/4 [19] Hose Connection
____ 1 [25] Hose Connection

SUFFIXES
___ -CI D.C.C.I. Box and Cover
___ -DP12 1/2 [13] IP Drain Port in Box
___ -DP14 1/4 [6] IP Drain Port in Box
___ -DP38 3/8 [10] IP Drain Port in Box
___ -HD Heavy Duty Cover (-CI and -NB only)
___ -K Flashing Flange only
___ -KC Flashing Flange with Clamp Collar
___ -NB Polished Nickel Bronze Face
___ -PB Polished Bronze Face
___ -RK Hydrant Parts Repair Kit (HYD-RK-Z1360XL)
___ -VB 3/4 [19] Adapter Vacuum Breaker (Requires deeper box to accommodate vacuum breaker)

* Regularly furnished unless otherwise specified.
** When ordering replacement operating rod assembly Specify Y dim.

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. A
Date: 8/28/15
C.N. No. 133088
Prod. | Dwg. No. Z1360XL

MOUNTING INSTRUCTIONS and PLUMBING CONNECTIONS
Provide solid, well-drained surface to mount pedestal fountain (concrete pad recommended). Mount on a smooth, flat, finished surface with adequate support (300 lb. load minimum). Secure unit with (3) 3/8" minimum fasteners (not included), refer to rough-in. Should be attached firmly to mounting surface in order to secure unit.

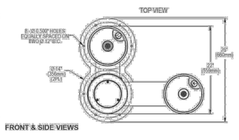
Modified low stream height bubbler for pet fountain.

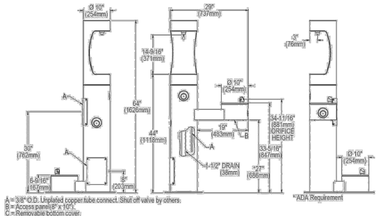
Locate and install plumbing through ground as required.

NOTE: Unit is not furnished with service valve.

Position pedestal over plumbing and secure base to fasteners. Remove access panels and connect supply and water lines. Turn on water supply and check for leaks. Reassemble access panels to pedestal.
Trap and service stop not included.

OPERATING PRESSURES:
Supply water 20—105 psi maximum





B2 CU-501 OUTDOOR BOTTLE FILLING STATION
N.T.S.

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Aver.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

UTILITY DETAILS

Designed by: SR
Drawn by: SR
Cad by: MS
Reviewed by: SR
Date: 02/07/2025
Rev:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
M&N Project No. 221315-02
Drawing code:
Submitted by: MARK PERELLO
MOFFATT & NICHOL

moffatt & nichol
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 042911 ENGINEER Fuad Trad Registered Professional Engineer MOFFATT & NICHOL
9/9/2025
SEAL

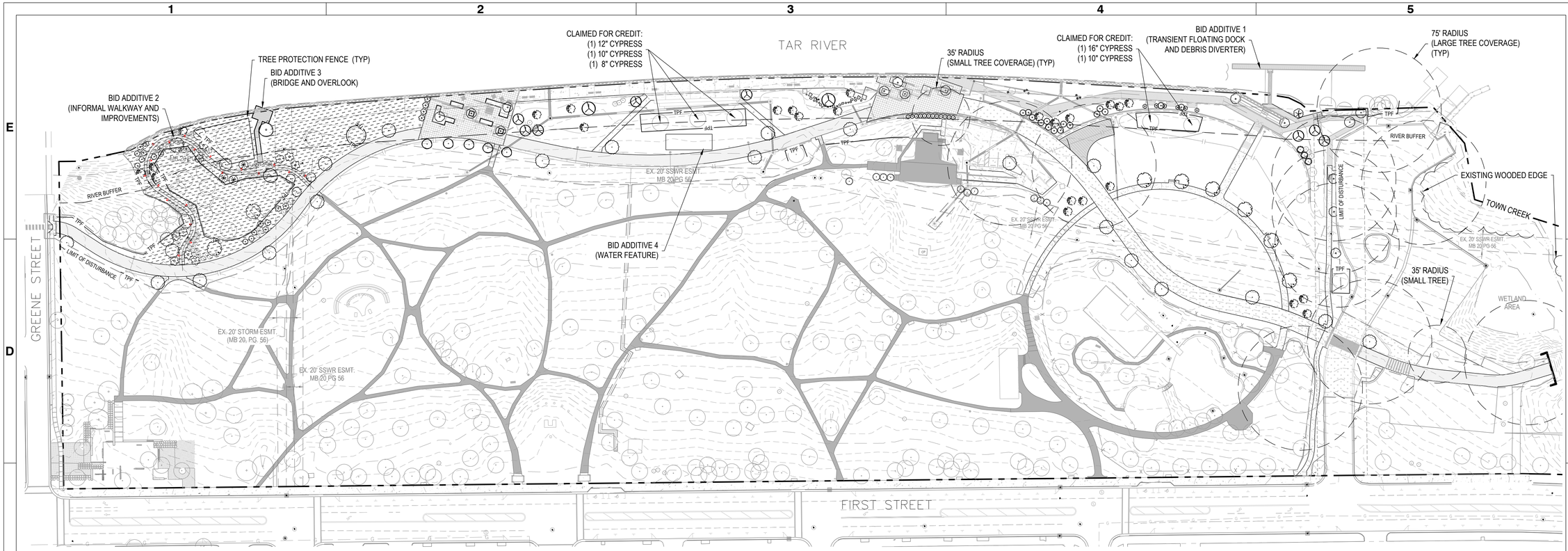
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Sheet Reference No.
CU501
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



PLANT SCHEDULE

Symbol	Key	Qty	*Botanical Name* (Common Name)	Height	Spread	Caliper	Cont.	Notes
LARGE TREES								
	QL	17	*Quercus lyrata* (Overcup Oak)	10' min	-	2" min.	-	
	CA	8	*Carpinus caroliniana* (American Hornbeam)	10' min	-	2" min.	-	Plant @ 6' oc
	NS	5	*Nyssa sylvatica Red Splyndor* (Red Splyndor Tupelo)	10' min	-	2" min.	-	
	CE	1	*Celtis occidentalis* (Hackberry)	10' min	-	2" min.	-	
	QV	3	*Quercus virginiana* (Live Oak)	10' min	-	2" min.	-	
	TD	6	*Taxodium dist. 'Shawnee Brave'* (Shawnee Brave Bald Cypress)	10' min	-	2" min.	-	
	LT	1	*Liriodendron tulipifera* (Tulip Poplar)	10' min	-	2" min.	-	
SMALL TREES								
	IN	20	*Ilex x 'Nellie Stevens'* (Nellie Stevens Holly)	8' min	-	1.5" min.	-	
	CF	11	*Cercis canadensis* 'Forest Pansy' (Forest Pansy Redbud)	8' min	-	1.5" min.	-	
	MG	29	*Magnolia gr. 'Little Gem'* (Little Gem Magnolia)	6' min	-	1" min.	-	
	CC	11	*Cornus fl. 'Cherokee Princess'* (Flowering Dogwood)	8' min	-	1.5" min.	-	
	AG	5	*Amelanchier gr. Autumn Brilliance* (A. B. Serviceberry)	8' min	-	1.5" min.	-	

CITY OF GREENVILLE PLANTING NOTES:

A. MINIMUM PLANT SIZES SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS AS FOLLOWS:

PLANTING MATERIAL TYPE	MINIMUM PLANTING SIZE
1. LARGE TREE -SINGLE STEM	10' (HEIGHT) AND 2" CAL.
MULTI-STEM	10' (HEIGHT)
2. SMALL TREE	8' (HEIGHT) AND 1.5" CAL.
3. SHRUB	18" (HEIGHT) EXCEPT AS PROVIDED UNDER 9-4-267

B. ALL REQUIRED PLANT MATERIAL (LARGE AND SMALL TREES, SHRUBS) LOCATED IN A SCREENING BUFFERYARD (C,D,E &F) SHALL BE EVERGREEN.

C. NO PORTION OF ANY PARKING AREA, INCLUDING ANY DRIVEWAY, PARKING SPACE, DRIVE AISLE OR TURNING AREA, SHALL BE LOCATED MORE THAN THIRTY (30) FEET FROM AN ON-SITE SMALL TREE OR MORE THAN SEVENTY-FIVE (75) FEET FROM AN ON-SITE LARGE TREE. FOR PURPOSES OF THIS SECTION, THE MEASUREMENT SHALL BE FROM THE FARTHEST EDGE OF THE SUBJECT AREA TO THE CENTER OF THE BASE OF THE CLOSEST QUALIFYING TREE.

D. SITE PLAN APPROVAL FROM THE RESPECTIVE EASEMENT HOLDER SHALL BE CONSTRUED AS APPROVAL OF ALL ENCROACHMENTS, AS SHOWN. ON THIS PLAN. (SEE NOTE ON ITEM 1.D.)

E. THE FOLLOWING VEGETATION MATERIALS, AS LISTED BY COMMON NAME, SHALL CONSTITUTE NOT MORE THAN TWENTY-FIVE (25) PERCENT OF THE TOTAL REQUIREMENT FOR THE SPECIFIC CATEGORY:

LARGE TREE CATEGORY: RIVER BIRCH
SMALL TREE CATEGORY: ARISTOCRAT PEAR, BRADFORD PEAR
CAPITOL PEAR, CLEVELAND SELECT PEAR
EVERGREEN SHRUB CATEGORY: RED TIP PHOTINIA

F. DUMPSTER/COMPACTOR SHALL BE SCREENED ON 3 SIDES IN ACCORDANCE WITH SECTION 9-4-268 (h) OF THE CITY CODE.

G. EXISTING SUBSTITUTE VEGETATION MATERIALS HAVE BEEN NOTED INCLUDING THEIR SPECIFIC LOCATION(S), TYPE(S), AND SIZE(S).

H. EXISTING SUBSTITUTE VEGETATION MATERIAL SHALL BE PROTECTED FROM SITE DEVELOPMENT ACTIVITIES IN ACCORDANCE WITH SECTION 9-4-265 (F) OF THE CITY CODE.

I. NO LARGE TREES TO BE PLANTED WITHIN SANITARY SEWER OR WATERLINE EASEMENTS.

J. PARKING LOT AREA TO BE SCREENED IN ACCORDANCE WITH SECTION 9-4-268(L)9 OF THE CITY CODE. PARKING AREA SCREENING SHALL BE INSTALLED WITHIN A 10 FOOT AREA ADJACENT TO AND EXTENDING THE FULL STREET SIDE WIDTH OF ALL PARKING AREAS WHICH FRONT A PUBLIC OR PRIVATE STREET.

K. MINIMUM OF 3 FEET CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE BUILDING CODE.

L. VEGETATION WITHIN 10' OF BUILDING SHALL NOT COUNT TOWARD SITE REQUIREMENTS.

VEGETATION REQUIREMENTS PER ARTICLE P, CITY OF GREENVILLE, NC ZONING REGULATIONS

A. REQUIRED VEGETATION PER ACRE FOR 5.48 ACRE DISTURBED AREA:

LARGE TREES (5 x 5.48 ACRE) = 27 41 SHOWN*
SMALL TREES (10 x 5.48 ACRE) = 55 73 SHOWN*
SHRUBS (25 x 5.48 ACRE) = 137 0 SHOWN* **
* 22 LARGE TREES & 22 SMALL TREES AS SUBSTITUTE FOR 137 SHRUBS

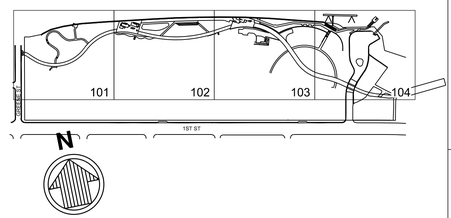
*PROPOSED TREES AS SUBSTITUTE FOR SHRUBS=
14 LARGE TREES = 14 x 5 = 70 SHRUBS
22 SMALL TREES = 18 x 3 = 54 SHRUBS
TOTAL CLAIMED= 124 SHRUBS

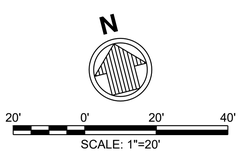
**EXISTING VEGETATION CLAIMED PER SEC 9-4-265(D)(1):
ONE 8" CYPRESS TREE (SUB FOR 6 SHRUBS)
TWO 10" CYPRESS TREES (SUB FOR 16 SHRUBS)
ONE 12" CYPRESS TREE (SUB FOR 8 SHRUBS)
ONE 16" CYPRESS TREE (SUB FOR 9 SHRUBS)
TOTAL CLAIMED= 38 SHRUBS

B. REQUIRED STREET TREE VEGETATION: 2 LARGE TREES PER 100 LF
GREENE STREET = 30 LF FRONTAGE - 1 LARGE TREE PROVIDED

C. REQUIRED SCREENING VEGETATION FOR BUFFERYARDS:
SITE LUC - 2 (PUBLIC PARK)
ADJACENT PROPERTIES (PARCELS 21931,23554, 20029, 17904, 35222) ARE AT LEAST 200' FROM ANY IMPROVEMENTS ASSOCIATED WITH THIS PROJECT SCREENED BY A MATURE RIVER BUFFER ALONG TOWN CREEK. NO PLANTING REQUIRED.

D. REQUIRED VEGETATION LOCATED IN PUBLIC UTILITY OR DRAINAGE EASEMENTS: NONE





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Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

OVERALL PLANTING PLAN

Date: 02/07/2025 Rev.
Designed by: SR
Drawn by: SR
Chkd by: SR
Reviewed by: SR
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
M&N Project No. 221315-02

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919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

Submitted by: MARK PERELLO
MOFFATT & NICHOL

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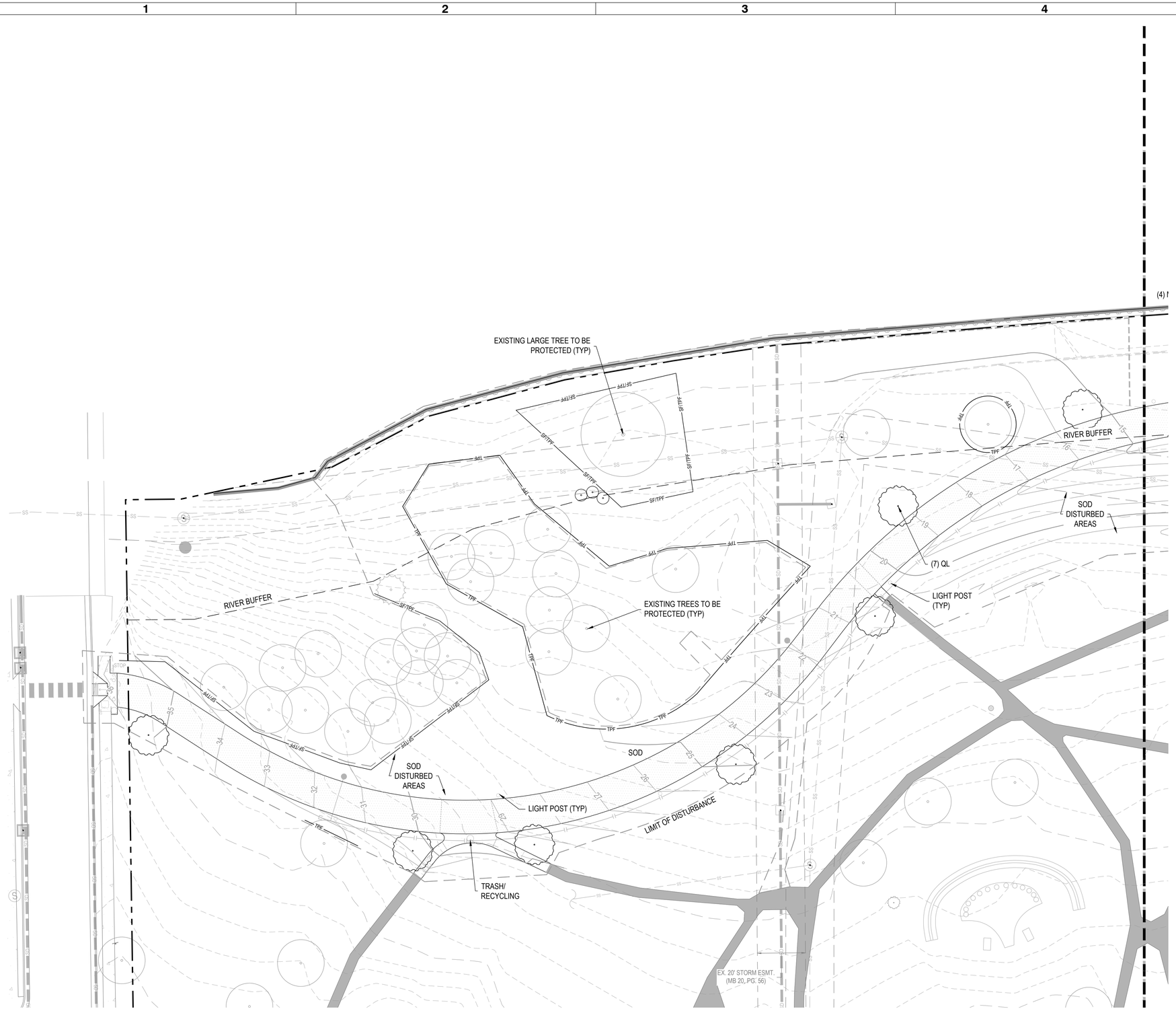
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3/3/2025
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Sheet Reference No.
CL100
INDEX: 58 OF 114

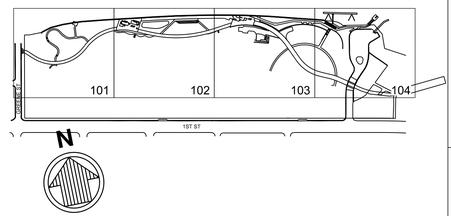
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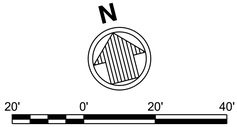
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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LARGE TREES		
	QL	*Quercus lyrata* (Overcup Oak)





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ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-03-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (WEST)

Designed by: SR | Date: 02/07/2025 | Rev.
Drawn by: SR | Cad by: MS | M&N Project No. 221315-02 | Drawing code:
Reviewed by: SR | Drawing Scale: AS SHOWN
Submitted by: MARK PERELLO, MOFFATT & NICHOL | Plot scale: 1:1 (D SHEET)
Plotted: 2/27/2025 5:59 PM by ANDREW.HARRELL

moffatt & nichol
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RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
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GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427

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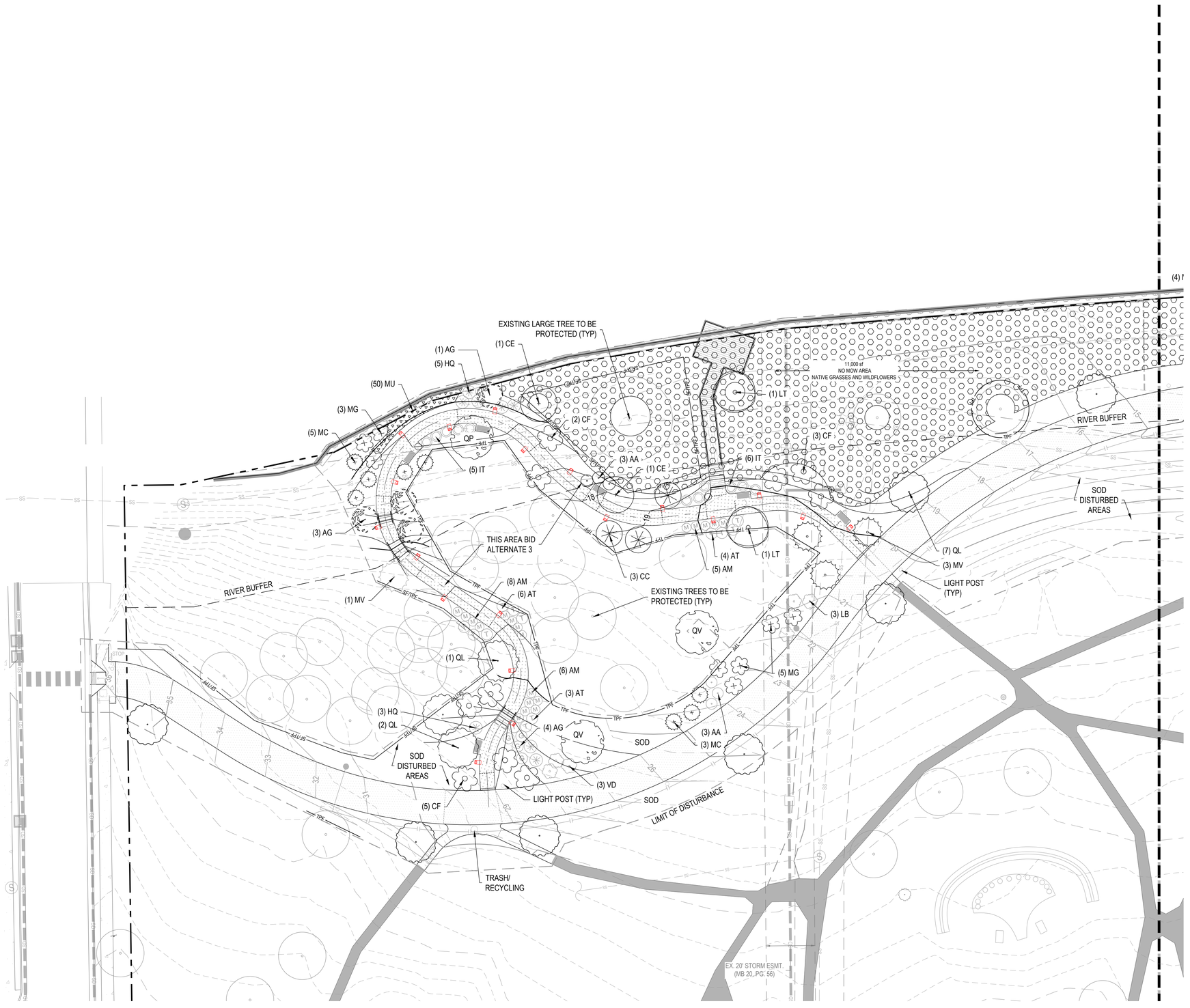
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9/2/2025
SEAL

Sheet Reference No.
CL101
INDEX: 59 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



LARGE TREES

QL	*Quercus lyrata* (Overcup Oak)
CE	*Celtis occidentalis* (Hackberry)
QV	*Quercus virginiana* (Live Oak)
LT	*Liriodendron tulipifera* (Tulip Poplar)
QP	*Quercus phellos* (Willow Oak)

SMALL TREES

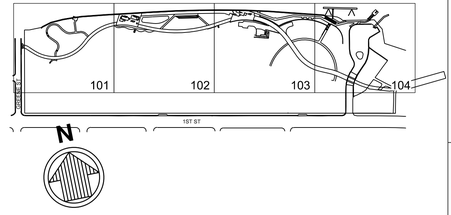
CF	*Cercis canadensis* 'Forest Pansy' (Forest Pansy Redbud)
MG	*Magnolia gr. 'Little Gem'* (Little Gem Magnolia)
CC	*Cornus fl. 'Cherokee Princess'* (Flowering Dogwood)
AG	*Amelanchier gr. Autumn Brilliance* (A. B. Serviceberry)
MV	*Magnolia virginiana Australis* (Sweetbay Magnolia)
MC	*Myrica cerifera* (Southern Wax Myrtle)

SHRUBS

AR	*Aronia arbutifolia 'Brilliantissima'* (Red Chokeberry)
IT	*Itea virginica 'Henry's Garnet'* (Henry's G. Virginia Sweetspire)
VD	*Viburnum dentatum 'Christom'* (Arrowwood Viburnum)
GG	*Azalea 'G.G. Gerbing'* (Gerbing Azalea)
AT	*Azalea Encore® Autumn Twist®* (Autumn Twist Azalea)
AM	*Azalea Encore® Autumn Fire®* (Autumn Fire Azalea)
LB	*Lindera benzoin* (Spicebush)
HQ	*Hydrangea paniculata 'Quick Fire'* (Quick Fire Hydrangea)

GRASSES & PERENNIALS

MU	*Muhlenbergia capillaris* (Pink Muhly Grass)



ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

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1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (WEST) - ALTERNATE A

Designed by: SR
Drawn by: SR
Reviewed by: SR
Date: 02/07/2025
Rev.
Cad by: MS
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: MARK PIRELLO
MOFFATT & NICHOL

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NC LANDSCAPE FIRM LICENSE NO. C-427

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT
SHARON HUH
A28981EAA-0E8E
9/2/2025

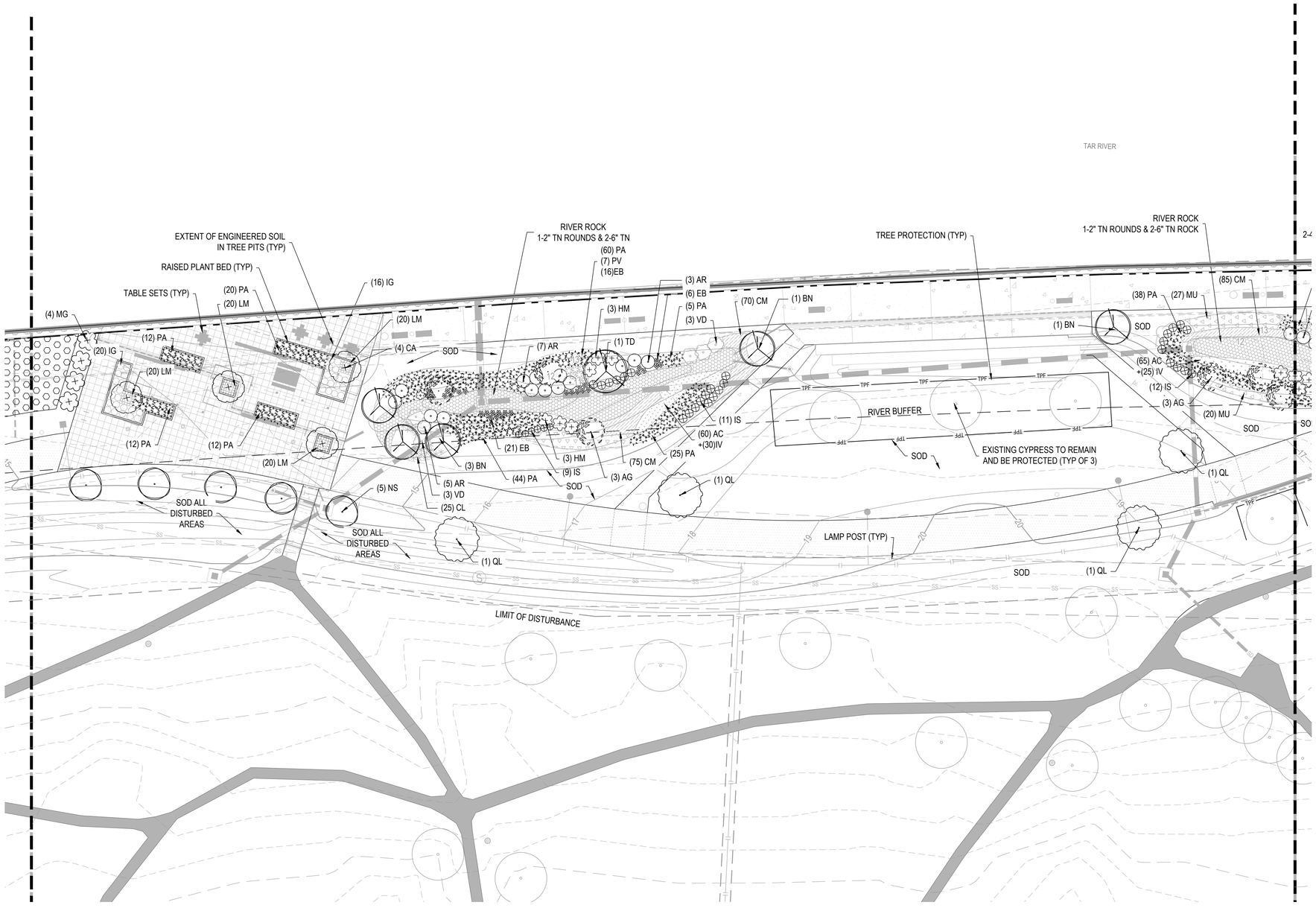
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Sheet Reference No.
CL101A
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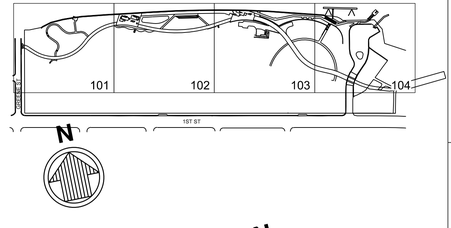
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

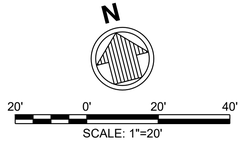
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LARGE TREES		
○	QL	*Quercus lyrata* (Overcup Oak)
○	CA	*Carpinus caroliniana* (American Hornbeam)
○	NS	*Nyssa sylvatica Red Splyndor* (Red Splyndor Tupelo)
✳	CE	*Celtis laevigata* (Southern Hackberry)
○	QV	*Quercus virginiana* (Live Oak)
✳	TD	*Taxodium dist. 'Shawnee Brave'* (Shawnee Brave Bald Cypress)
○	LT	*Liriodendron tulipifera* (Tulip Poplar)

SMALL TREES		
✳	IN	*Ilex x 'Nellie Stevens'* (Nellie Stevens Holly)
✿	CF	*Cercis canadensis* 'Forest Pansy' (Forest Pansy Redbud)
✳	MG	*Magnolia gr. 'Little Gem'* (Little Gem Magnolia)
✳	CC	*Cornus fl. 'Cherokee Princess'* (Flowering Dogwood)
✳	AG	*Amelanchier gr. Autumn Brilliance* (A. B. Serviceberry)
·	MV	*Magnolia virginiana Australis* (Sweetbay Magnolia)
✳	MC	*Myrica cerifera* (Southern Wax Myrtle)





ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-03-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (CENTER-WEST)

Rev.
Date: 02/07/2025
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: SR
Drawn by: SR
Cut by: MS
Reviewed by: SR
Submitted by: MARK PERELLO MOFFATT & NICHOL

moffatt & nichol
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RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

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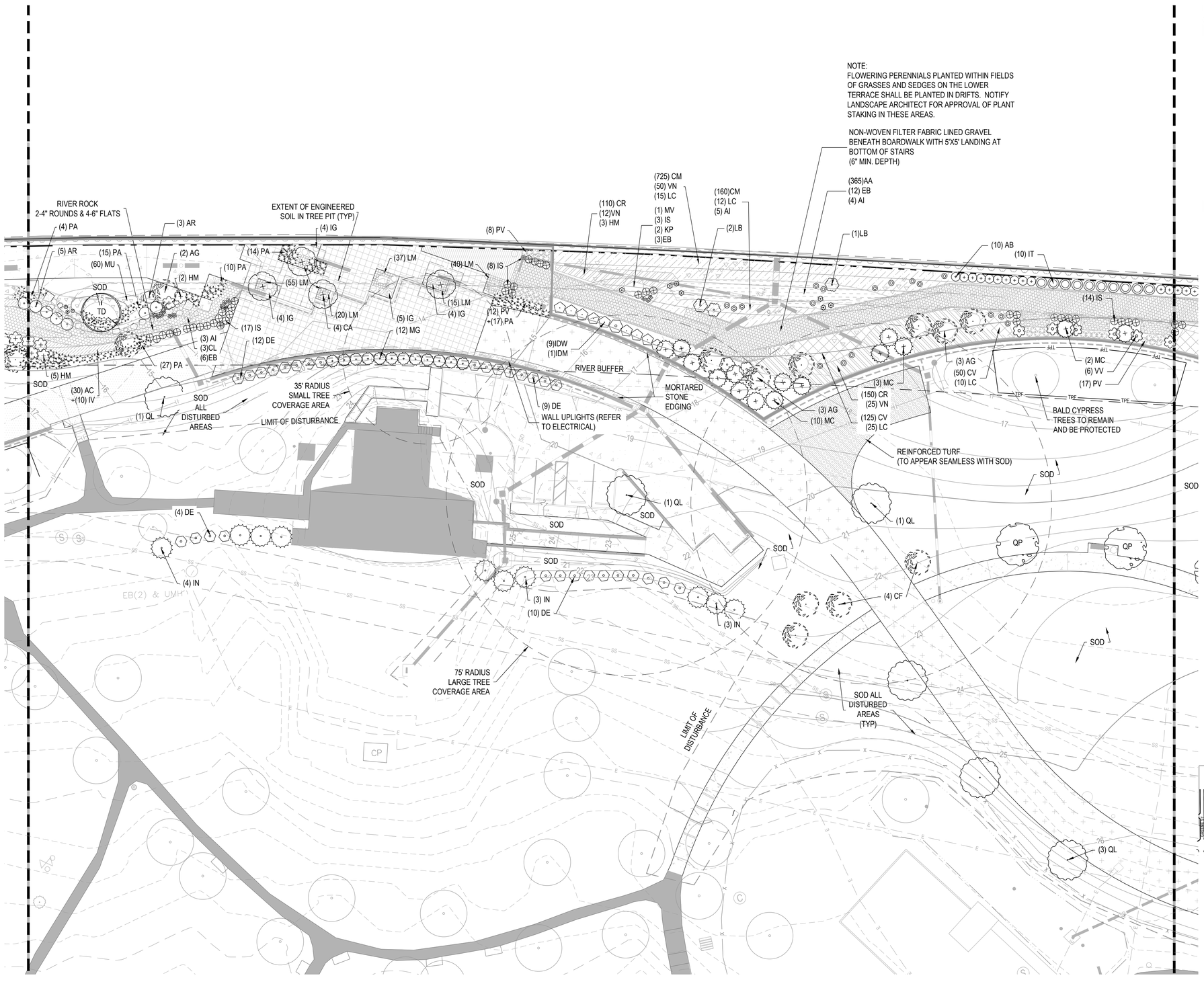
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Sheet Reference No.
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GREENVILLE TOWN COMMONS & ESPLANADE PROJECT - Saved: 2/13/2025 3:56 PM by ANDREW HARRELL

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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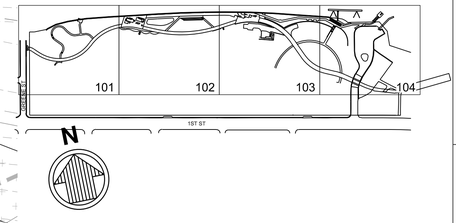


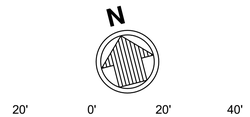
PLANT KEY

(REFER TO SHEET CL105 FOR FULL SCHEDULE)

LARGE TREES		
	QL	*Quercus lyrata* (Overcup Oak)
	CA	*Carpinus caroliniana* (American Hornbeam)
	NS	*Nyssa sylvatica Red Splyndor* (Red Splyndor Tupelo)
	CE	*Celtis occidentalis* (Hackberry)
	QV	*Quercus virginiana* (Live Oak)
	TD	*Taxodium dist. 'Shawnee Brave'* (Shawnee Brave Bald Cypress)
	LT	*Liriodendron tulipifera* (Tulip Poplar)

SMALL TREES		
	AS	*Alnus serrulata* (Tag Alder)
	IN	*Ilex x 'Nellie Stevens'* (Nellie Stevens Holly)
	CF	*Cercis canadensis* 'Forest Pansy' (Forest Pansy Redbud)
	MG	*Magnolia gr. 'Little Gem'* (Little Gem Magnolia)
	CC	*Cornus fl. 'Cherokee Princess'* (Flowering Dogwood)
	AG	*Amelanchier gr. Autumn Brilliance* (A. B. Serviceberry)
	MV	*Magnolia virginiana Australis* (Sweetbay Magnolia)
	MC	*Myrica cerifera* (Southern Wax Myrtle)





ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (CENTER-EAST)

Designed by: SR
Drawn by: SR
Reviewed by: SR
Submitted by: MARK PERELLO
MOFFATT & NICHOL
Date: 02/07/2025
Rev.
Cad file:
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Plotted: 2/27/2025 6:01 PM by ANDREW.HARRELL

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Engineering • Surveying • Technology
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GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL



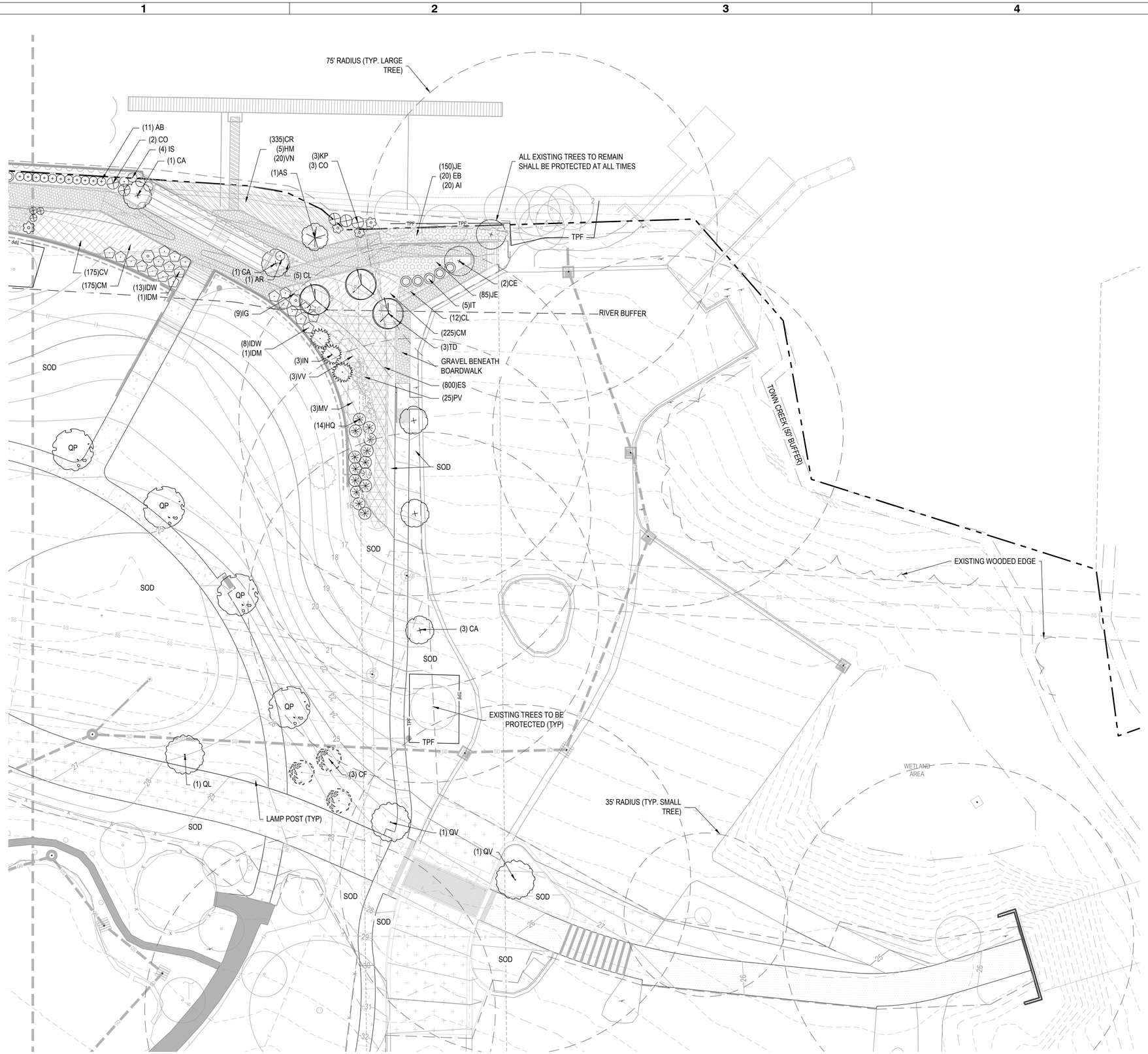
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Sheet Reference No.
CL103
INDEX: 61 OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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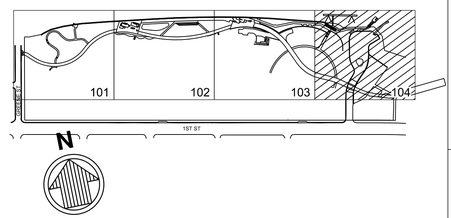
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NOTE:
FLOWERING PERENNIALS PLANTED WITHIN FIELDS OF GRASSES AND SEDGES ON THE LOWER TERRACE SHALL BE PLANTED IN DRIFTS. NOTIFY LANDSCAPE ARCHITECT FOR APPROVAL OF PLANT STAKING IN THESE AREAS.

LARGE TREES		
	QL	*Quercus lyrata* (Overcup Oak)
	CA	*Carpinus caroliniana* (American Hornbeam)
	NS	*Nyssa sylvatica Red Splyndor* (Red Splyndor Tupelo)
	CE	*Celtis occidentalis* (Hackberry)
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SMALL TREES		
	IN	*Ilex x 'Nellie Stevens'* (Nellie Stevens Holly)
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	MV	*Magnolia virginiana Australis* (Sweetbay Magnolia)
	MC	*Myrica cerifera* (Southern Wax Myrtle)



N
20' 0' 20' 40'
SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (EAST)

Designed by: SR
Drawn by: SR
Checked by: MS
Date: 02/07/2025
Rev.
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Reviewed by: SR
Submitted by: MARK MORELLO MOFFATT & NICHOL

moffatt & nichol
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHEW
A2888/LEA/CLP/CPESC
3/3/2025

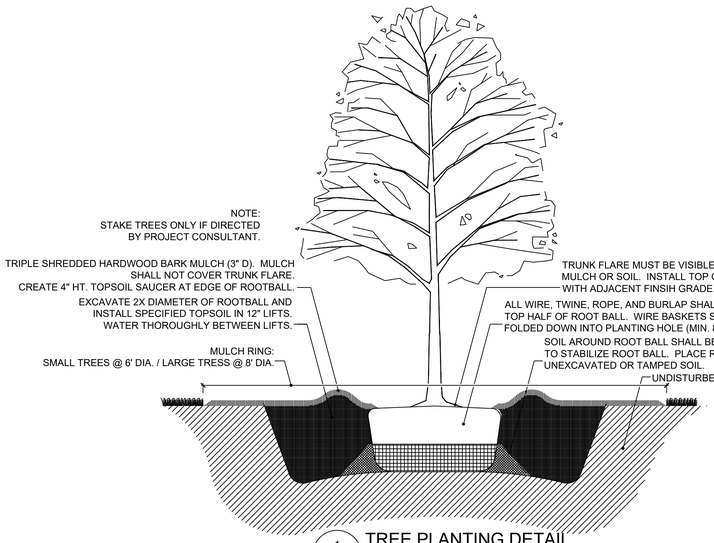
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Sheet Reference No.
CL104
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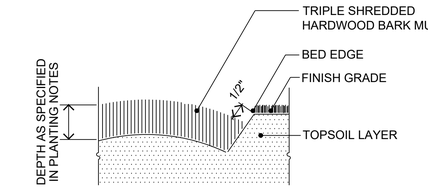
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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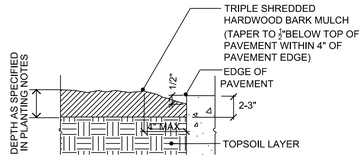
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1 CL501 TREE PLANTING DETAIL N.T.S.



2 CL501 PLANTING BED EDGE (AT SOD) N.T.S.



3 CL501 PLANTING BED EDGE (AT HARDSCAPE) N.T.S.

PLANTING NOTES

THE CONTRACTOR SHALL FURNISH PLANT MATERIAL SHOWN ON THE DRAWINGS, AS SPECIFIED AND AS INDICATED ON THE PLANT LIST. THE OWNER OR HISSHER AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO THE BEGINNING OF PLANTING OPERATIONS.

PRE-CONSTRUCTION CONFERENCE: PRIOR TO COMMENCING PLANT AND IRRIGATION INSTALLATION, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD. ATTENDEES SHALL INCLUDE OWNER, GENERAL CONTRACTOR, LANDSCAPE AND IRRIGATION CONTRACTOR(S) AND PROJECT CONSULTANT OR THEIR DESIGNATED REPRESENTATIVES.

STANDARDS: ALL PLANTS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. WITH REGARD TO SIZING AND DESCRIPTION.

QUALITY: ALL PLANTS SHALL BE NURSERY GROWN AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHOULD BE FREE OF DISEASE AND INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEM.

SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE WITHIN A REASONABLE DISTANCE, THE CONTRACTOR MAY MAKE SUBSTITUTIONS UPON REQUEST, IF APPROVED BY THE PROJECT CONSULTANT. PROPOSAL FOR SUBSTITUTION OF PLANT MATERIAL SHALL BE SUBMITTED AT LEAST 10 DAYS PRIOR TO THE FINAL BID DATE FOR CONSIDERATION.

SIZE: ALL PLANTS SHALL CONFORM TO ALL MEASUREMENTS SPECIFIED ON THE PLANT LIST UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE PROJECT CONSULTANT.

PRUNING: EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN, INC. STANDARDS TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED.

ROOT SYSTEMS: BALL & BURLAP PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH OF DIAMETER AND DEPTH TO INCLUDE MOST OF THE FIBROUS ROOTS. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN CONTAINER OR BALL.

PROTECTION: ROOT BALLS TRUNKS, BRANCHES AND FOLIAGE OF PLANTS SHALL BE ADEQUATELY PROTECTED AT ALL TIMES FROM SUN AND DRYING WIND OR FROST. PLANTS WITH BROKEN ROOT BALLS OR EXCESSIVE DAMAGE TO THE CROWN SHALL BE REPLACED, IN KIND, PRIOR TO INSTALLATION.

MULCH: IMMEDIATELY FOLLOWING PLANT INSTALLATIONS ALL TREE AND SHRUB PLANTING PITS SHALL BE COVERED WITH THREE-INCH (3") LAYER OF NON-DYED, TRIPLE SHREDDED MULCH. ORNAMENTAL GRASSES AND PERENNIAL FLOWERS SHALL BE COVERED WITH TWO-INCH (2") LARGER FINAL GRADE OF MULCH SHALL BE ½" BELOW ADJACENT SURFACE OR STEEL EDGING TO PROHIBIT WASHOUT OR MIGRATION OF MULCH TO ADJACENT SURFACE.

ANTI-DESICCANT SPRAY: TREES AND WHEN PLANTED IN LEAF SHALL BE TREATED WITH ANTI-DESICCANT SUCH AS "WILT-PROOF".

TOPSOIL: TOPSOIL USED SHALL BE FERTILE AGRICULTURAL SOIL; TYPICAL FOR LOCALITY; CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH; TAKEN FROM DRAINED SITES; FREE OF SUBSOIL, ROCKS, STONES, CLAY OR IMPURITIES, PLANTS, WEEDS AND ROOTS; PH VALUE MINIMUM 5.4, MAXIMUM 7.0; ORGANIC CONTENT 5 TO 7 PERCENT.

- ALL SEED AND SOD AREAS SHALL HAVE A MINIMUM 6" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).
- ALL GROUNDCOVER AND ORNAMENTAL GRASSES SHALL HAVE A MINIMUM 12" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).
- ALL TREE AND SHRUB BEDS SHALL HAVE A MINIMUM 18" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).

STAKING & GUYING: TREES SHALL BE STAKED AND GUYED AS IS DETAILED ON THE DRAWINGS AND ACCORDING TO ACCEPTED INDUSTRY PRACTICE, ONLY WHEN DIRECTED BY PROJECT CONSULTANT.

LAYOUT: THE CONTRACTOR SHALL LAYOUT WITH IDENTIFIABLE STAKES , THE LOCATION OF ALL PLANTS AND THE THE ARRANGEMENT AND OUTLINES OF PLANTING BEDS AS INDICATED ON THE DRAWINGS. PRIOR TO ANY EXCAVATION OF PLANT PITS OR PREPARATION OF PLANT BEDS, THE PROJECT CONSULTANT SHALL APPROVE THE LAYOUT OF PLANTING. ALL PLANTING SHALL BE AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT AND LAYOUT OF PLANTING BEDS. MINOR ADJUSTMENTS TO TREE LOCATIONS MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IF MAJOR ADJUSTMENTS ARE ANTICIPATED.

ADVERSE CONDITIONS: THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IN WRITING OF ANY SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO PLANT GROWTH. THE DOCUMENTED CONDITIONS SHALL INCLUDE A PROPOSAL FOR CORRECTING THE SITUATION, INCLUDING ANY CHANGE IN COST, FOR REVIEW AND ACCEPTANCE BY THE PROJECT CONSULTANT.

QUANTITY: THE QUANTITY OF PLANTS IN THE PLANT SCHEDULE IS FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL OBTAIN QUANTITIES FOR PRICING BY COMPILING NUMBERS FROM THE PLANTS ILLUSTRATED ON THE DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE DRAWINGS AND THE PLANT SCHEDULE, THE QUANTITIES ILLUSTRATED ON THE DRAWINGS SHALL TAKE PRECEDENCE.

GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A FULL YEAR FROM THE DATE OF INITIAL ACCEPTANCE. IT IS THE CONTRACTORS RESPONSIBILITY TO MONITOR THE PROJECT DURING THE GUARANTEE PERIOD AND NOTIFY THE OWNER IN WRITING IF PROBLEMS ARE OCCURRING OR SITUATIONS DEVELOPED THAT APPEAR DETRIMENTAL TO THE PLANT MATERIAL. ANY PLANT MATERIAL THAT IS 25% DEAD OR MORE SHALL BE CONSIDERED DEAD AND MUST BE REPLACED AT NO CHARGE TO THE OWNER. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR THERE IS 25% OF THE CROWN DEAD.

TURFGRASS SOD NOTES

CERTIFICATION - THE CONTRACTOR SHALL FURNISH AND INSTALL CERTIFIED 'TIFTUF' BERMUDA SOD, GROWN FROM CERTIFIED HIGH QUALITY SEED OF LOCAL ORIGIN. SOD SHALL BE INSPECTED BY THE OFFICIAL CERTIFICATION AGENCY OF THE STATE TO ASSURE SATISFACTORY GENETIC IDENTITY AND PURITY, OVERALL HIGH QUALITY AND FREEDOM FROM NOXIOUS WEEDS AND EXCESSIVE AMOUNTS OF OTHER CROP AND WEEDY PLANTS AT TIME OF HARVEST. SOD MUST MEET THE PUBLISHED STATE STANDARDS FOR CERTIFICATION. INSTALL ONLY BETWEEN SEPTEMBER AND MAY INCLUSIVE.

MATERIAL - SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 1" PLUS OR MINUS 1/4" AT THE TIME OF CUTTING. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10% OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE. ONLY MOIST, FRESH UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 16 HOURS.

SOIL AMENDMENTS - ALL FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT. FERTILIZER APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. DISTRIBUTE EVENLY OVER AREA TO BE SODDED. LIME AND FERTILIZER SHALL BE UNIFORMLY MIXED INTO THE TOP 2 INCHES OF SOIL BY DISCING, HARROWING OR OTHER APPROVED METHODS.

THE FINAL DETERMINATION OF THE USE AND APPLICATION RATES OF ALL SOIL AMENDMENTS INCLUDING FERTILIZERS, LOW AND HIGH PH CORRECTION MATERIALS SHALL BE BASED UPON RECOMMENDATIONS OF THE STATE AGRICULTURAL EXTENSION SERVICE FOR THE VARIETY OF TURFGRASS BEING SPECIFIED.

FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN SHALL BE USED IN LIEU OF TOP DRESSING. APPLY LIMESTONE (EQUIVALENT OF 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

Soil Texture	Tons/Acre	lbs/1000 sf
Clay and clay loam and high organic soil	4	180
Sandy loam, loam, silt loam	3	135
Loamy sand, sand	2	90

WORK PULVERIZED DOLOMITIC LIMESTONE LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM, FINE SEEDBED IS PREPARED.

TOPSOIL: TOPSOIL USED SHALL BE FERTILE AGRICULTURAL SOIL; TYPICAL FOR LOCALITY; CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH; TAKEN FROM DRAINED SITES; FREE OF SUBSOIL, STONES, CLAY OR IMPURITIES, PLANTS, WEEDS AND ROOTS; PH VALUE MINIMUM 5.4, MAXIMUM 7.0; ORGANIC CONTENT 5 TO 7 PERCENT.

ALL SEED AND SOD AREAS SHALL HAVE A MINIMUM 6" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).

SOIL PREPARATION - REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS SUCH AS WIRE, ROCKS, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL. INSPECT SITE JUST BEFORE SODDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

INSTALLATION - PLACE SOD STRIPS WITH SNUG EVEN JOINTS THAT ARE STAGGERED OPEN, SPACES INVITE EROSION. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OR FOOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE DRYING OF THE ROOTS.

SLOPES - SOD STRIPS SHALL BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE. STARTING AT THE BOTTOM OF THE SLOPE, AND WORKING UP ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE). WHEN SURFACE WATER CANNOT BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, PROVIDE A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES TO PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF THE SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREA. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.

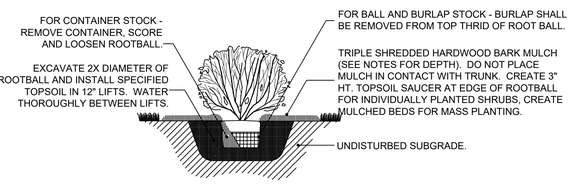
WATERING - IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. THE CONTRACTOR SHALL INSURE THE MAINTENANCE OF OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.

TOPDRESSING - IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY. SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET.

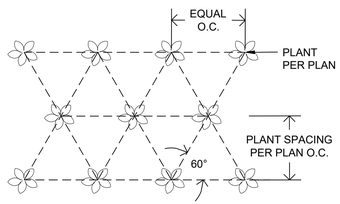
PROTECTION - THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR LAWN AREAS AT ALL TIMES AGAINST DAMAGE OF ANY KIND DURING INSTALLATION OR OTHER RELATED OPERATIONS. SUCH PROTECTION SHALL BE MAINTAINED FROM THE COMPLETION OF SITE PREPARATION TO THE COMPLETION OF CONTRACT WORK.

MOWING - TURFGRASS SHALL BE ALLOWED TO GROW TO A HEIGHT OF 3 INCHES PRIOR TO THE FIRST MOWING. THE GRASS SHALL BE PROPERLY MOWED TO A HEIGHT OF 2 TO 2 ½ INCHES. NEVER, IN ANY CASE, CUT MORE THAN 1/3 THE HEIGHT OF THE GRASS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AT LEAST THE FIRST 2 MOWINGS AND ANY OTHER MOWING NECESSARY UNTIL FINAL ACCEPTANCE.

GUARANTEE - THE CONTRACTOR SHALL GUARANTEE THAT UPON COMPLETION AND ACCEPTANCE OF THE WORK, ALL PORTIONS THEREOF WILL BE IN ACCORDANCE WITH THE CONTRACT AND SPECIFICATIONS. THE SAME CONDITION SHALL REMAIN FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL FURTHER WARRANT THAT DURING THE PERIOD OF THE GUARANTEE, HE WILL MAKE GOOD ANY DEFECTS TO THE WORK AND ALL DAMAGE CAUSED TO PROPERTY OF THE OWNER BY SUCH DEFECTS OR BY THE WORK REQUIRED TO REMEDY SUCH DEFECTS.



4 CL501 SHRUB PLANTING DETAIL N.T.S.



5 CL501 GROUNDCOVER SPACING N.T.S.

PLANT SCHEDULE

LARGE TREES

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	QL	18	*Quercus lyrata* (Overcup Oak)	14' min	-	3" min.	-	Single, straight leader; full crown
	CA	13	*Carpinus caroliniana* (American Hornbeam)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	NS	5	*Nyssa sylvatica Red Splyndor* (Red Splyndor Tupelo)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	CE	2	*Celtis occidentalis* (Hackberry)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	QV	2	*Quercus virginiana* (Live Oak)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	QP	6	*Quercus phellos* (Willow Oak)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	TD	5	*Taxodium dist. 'Shawnee Brave'* (Shawnee Brave Bald Cypress)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	BN	5	*Betula nigra 'Dura-Heat'* (River Birch)	12' min	-	2" min.	-	Multistemmed; full crown
	LT	0	*Liriodendron tulipifera* (Tulip Poplar)	12' min	-	2.5" min.	-	Single, straight leader; full crown

SMALL TREES

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	AS	1	*Alnus serrulata* (Tag Alder)	6' min	-	1.5" min.	-	
	IN	13	*Ilex x 'Nellie Stevens'* (Nellie Stevens Holly)	8' min	-	1.5" min.	-	Single, straight leader; full crown
	CF	7	*Cercis canadensis* 'Forest Pansy' (Forest Pansy Redbud)	8' min	-	1.5" min.	-	
	MG	16	*Magnolia gr. 'Little Gem'* (Little Gem Magnolia)	6' min	-	1" min.	-	
	CC	0	*Cornus fl. 'Cherokee Princess'* (Flowering Dogwood)	8' min	-	1.5" min.	-	
	AG	11	*Amelanchier gr. Autumn Brilliance* (A. B. Serviceberry)	8' min	-	1.5" min.	-	Multistemmed; full crown
	MV	4	*Magnolia virginiana Australis* (Sweetbay Magnolia)	8' min	-	1.5" min.	-	Multistemmed; full crown
	MC	15	*Myrica cerifera* (Southern Wax Myrtle)	8' min	-	1.5" min.	-	Multistemmed; tree form; full crown

SHRUBS

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	IS	78	*Ilex glabra 'Shamrock'* (Shamrock Inkberry Holly)	18" min	-	-	#3	Plant @ 3.5' oc
	AR	24	*Aronia arbutifolia 'Brilliantissima'* (Red Chokeberry)	24" min	-	-	#3	Plant @ 3.5' oc
	AB	21	*Aronia arbutifolia 'Brilliantissima'* (Red Chokeberry)	36" min	-	-	#15	Plant @ 3.5' oc
	IG	62	*Ilex glabra 'Gem Box'* (Gem Box Inkberry Holly)	15" min	-	-	#3	Plant @ 2 - 2.5' oc
	VD	6	*Viburnum dentatum 'Christom'* (Arrowwood Viburnum)	18" min	-	-	#3	Plant @ 5' oc
	JP	0	*Juniperus chinensis 'Parsonii'* (Parson's Juniper)	18" min	-	-	#10	Plant @ 4' oc
	IC	0	*Ilex crenata 'Compacta'* (Compacta Holly)	18" min	-	-	#3	Plant @ 5' oc
	HM	21	*Hibiscus moscheutos* (Swamp Rose Mallow)		-	-	#3	Plant @ 2.5' oc
	IDW	30	*Ilex decidua 'Warren's Red'* (Possomhaw)	xx" min	-	-	#7	Plant @ 5' oc
	IDM	3	*Ilex decidua 'Midas'* (Possomhaw (male))	xx" min	-	-	#7	Plant @ 5' oc
	IT	15	*Itea virginica 'Henry's Garnet'* (Henry's G. Virginia Sweetspire)		-	-	#3	Plant @ 5' oc
	LB	3	*Lindera benzoin* (Spicebush)		-	-	#3	Plant @ 6' oc
	HQ	14	*Hydrangea paniculata 'Quick Fire'* (Quick Fire Hydrangea)		-	-	#10	Plant @ 5' oc
	VV	9	*Viburnum nudum* (Winterthur Viburnum (Possumhaw))		-	-	#3	Plant @ 5' oc min or as shown
	DE	35	*Distylium 'Emerald Heights'* (Emerald Heights Distylium)		-	-	#5	Plant @ 6' oc
	KP	5	*Kosteletzkya pentacarpos* (Marsh Mallow)		-	-	#1	Plant @ 2.5' oc
	CO	5	*Cephalanthus occidentalis* (Buttonbush)		-	-	#3	Plant @ 5' oc
G	GG	XX	*Azalea 'G.G. Gerbing'* (Gerbing Azalea)	24" min		-	#3	Plant @ 5' oc
T	AT	XX	*Azalea Encore® Autumn Twist®* (Autumn Twist Azalea)	18" min		-	#3	Plant @ 4' oc
M	AM	XX	*Azalea Encore® Autumn Fire®* (Autumn Fire Azalea)	15" min		-	#3	Plant @ 3' oc

GRASSES & PERENNIALS

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	PV	69	*Panicum virg. 'Northwind'* (Northwind Switchgrass)	18" min	-	-	#3	Plant @ 2' oc
	PA	315	*Panicum virg. 'Shenandoah'* (Switchgrass)	18" min	-	-	#3	Plant @ 18" oc
	CM	1953	*Carex amphibola* (Creek Sedge)	-	-	-	Large plug	Plant @ 18" oc
	AA	474	*Acorus americanus* (Sweet Flag)	-	-	-	Large plug	Plant @ 18" oc
	AC	155	*Acorus gramineus 'Ogon'* (Ogon Sweet Flag)	8" min	-	-	#1	Plant @ 15" oc
	IV	65	*Iris virginica* (Southern Blue Flag Iris)	-	-	-	Large plug	Plant @ 18" oc
	LM	247	*Liriope muscari 'Big Blue'* (Big Blue Lilyturf)	8" min	-	-	#1	Plant @ 15" oc
	EB	78	*Eutrochium dubium* (Coastal Joe Pye Weed)	-	-	-	#1	Plant @ 18" oc
	AI	32	*Asclepias incarnata* (Swamp Milkweed)	-	-	-	#1	Plant @ 2' oc
	MU	107	*Muhlenbergia capillaris* (Pink Muhly Grass)	-	-	-	#1	Plant @ 2' oc
	CL	45	*Chasmanthium latifolium* (River Oats)	-	-	-	#1	Plant @ 2' oc
	LC	62	*Coreopsis lanceolata* (Lanceleaf Coreopsis)	-	-	-	#1	Plant @ 18" oc
	ES	800	*Eragrostis spectabilis* (Purple Lovegrass)	-	-	-	Large plug	Plant @ 12" oc
	CV	430	*Carex vulpinoidea* (Fox Sedge)	-	-	-	Large plug	Plant @ 18" oc
	CR	1040	*Coleataenia rigidula* (Red-top Panic Grass)	-	-	-	Large plug	Plant @ 18" oc
	JE	325	*Juncus effusus* (Soft Rush)	-	-	-	Large plug	Plant @ 18" oc
	VN	107	*Vernonia noveboracensis* (Iron weed)	-	-	-	Large plug	Plant @ 18" oc

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

No.	Mark	Description	Date	Appr.
1	ADDENDUM NO. 1		2025-02-26	
0	ISSUED FOR BID		2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING DETAILS, NOTES, & SCHEDULE

Date: 02/07/2025 | Rev.
Designed by: SR | Drawn by: SR | Cked by: MS
MAN Project No. 221315-02
Drawing Scale: AS SHOWN
Plot scale: 1:1 (1) SHEET)
Drawing code:
Reviewed by: SR
Submitted by: ANDREW HARRELL
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering • Surveying • Planning
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

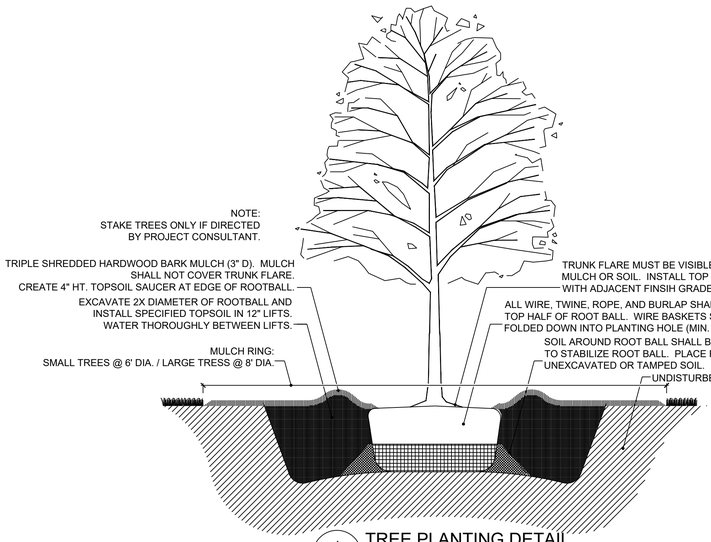
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SEAL

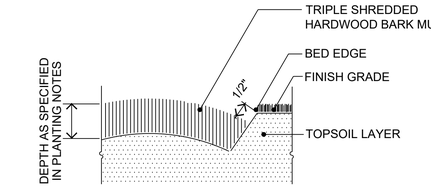
Sheet Reference No.
CL501
INDEX: 63 OF 114

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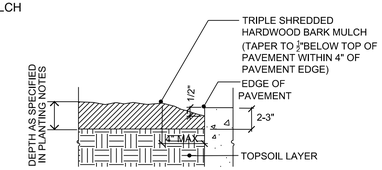
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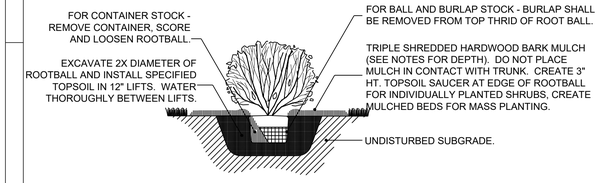
1 CL501 TREE PLANTING DETAIL N.T.S.



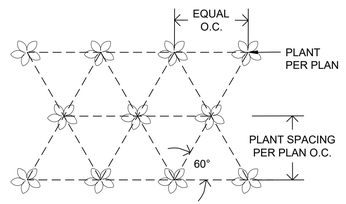
2 CL501 PLANTING BED EDGE (AT SOD) N.T.S.



3 CL501 PLANTING BED EDGE (AT HARDSCAPE) N.T.S.



4 CL501 SHRUB PLANTING DETAIL N.T.S.



5 CL501 GROUNDCOVER SPACING N.T.S.

PLANTING NOTES

THE CONTRACTOR SHALL FURNISH PLANT MATERIAL SHOWN ON THE DRAWINGS, AS SPECIFIED AND AS INDICATED ON THE PLANT LIST. THE OWNER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO THE BEGINNING OF PLANTING OPERATIONS.

PRE-CONSTRUCTION CONFERENCE: PRIOR TO COMMENCING PLANT AND IRRIGATION INSTALLATION, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD. ATTENDEES SHALL INCLUDE OWNER, GENERAL CONTRACTOR, LANDSCAPE AND IRRIGATION CONTRACTOR(S) AND PROJECT CONSULTANT OR THEIR DESIGNATED REPRESENTATIVES.

STANDARDS: ALL PLANTS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. WITH REGARD TO SIZING AND DESCRIPTION.

QUALITY: ALL PLANTS SHALL BE NURSERY GROWN AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHOULD BE FREE OF DISEASE AND INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEM.

SUBSTITUTIONS: WHEN PLANTS OF A SPECIFIED KIND OR SIZE ARE NOT AVAILABLE WITHIN A REASONABLE DISTANCE, THE CONTRACTOR MAY MAKE SUBSTITUTIONS UPON REQUEST, IF APPROVED BY THE PROJECT CONSULTANT. PROPOSAL FOR SUBSTITUTION OF PLANT MATERIAL SHALL BE SUBMITTED AT LEAST 10 DAYS PRIOR TO THE FINAL BID DATE FOR CONSIDERATION.

SIZE: ALL PLANTS SHALL CONFORM TO ALL MEASUREMENTS SPECIFIED ON THE PLANT LIST UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE PROJECT CONSULTANT.

PRUNING: EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN, INC. STANDARDS TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED.

ROOT SYSTEMS: BALL & BURLAP PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH OF DIAMETER AND DEPTH TO INCLUDE MOST OF THE FIBROUS ROOTS. CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE. NO PLANTS SHALL BE LOOSE IN CONTAINER OR BALL.

PROTECTION: ROOT BALLS TRUNKS, BRANCHES AND FOLIAGE OF PLANTS SHALL BE ADEQUATELY PROTECTED AT ALL TIMES FROM SUN AND DRYING WIND OR FROST. PLANTS WITH BROKEN ROOT BALLS OR EXCESSIVE DAMAGE TO THE CROWN SHALL BE REPLACED, IN KIND, PRIOR TO INSTALLATION.

MULCH: IMMEDIATELY FOLLOWING PLANT INSTALLATIONS ALL TREE AND SHRUB PLANTING PITS SHALL BE COVERED WITH THREE-INCH (3") LAYER OF NON-DYED, TRIPLE SHREDDED MULCH. ORNAMENTAL GRASSES AND PERENNIAL FLOWERS SHALL BE COVERED WITH TWO-INCH (2") LARGER FINAL GRADE OF MULCH SHALL BE ½" BELOW ADJACENT SURFACE OR STEEL EDGING TO PROHIBIT WASHOUT OR MIGRATION OF MULCH TO ADJACENT SURFACE.

ANTI-DESICCANT SPRAY: TREES AND WHEN PLANTED IN LEAF SHALL BE TREATED WITH ANTI-DESICCANT SUCH AS "WILT-PROOF".

TOPSOIL: TOPSOIL USED SHALL BE FERTILE AGRICULTURAL SOIL; TYPICAL FOR LOCALITY; CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH; TAKEN FROM DRAINED SITES; FREE OF SUBSOIL, ROCKS, STONES, CLAY OR IMPURITIES, PLANTS, WEEDS AND ROOTS; PH VALUE MINIMUM 5.4, MAXIMUM 7.0; ORGANIC CONTENT 5 TO 7 PERCENT.

- ALL SEED AND SOD AREAS SHALL HAVE A MINIMUM 6" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).
- ALL GROUNDCOVER AND ORNAMENTAL GRASSES SHALL HAVE A MINIMUM 12" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).
- ALL TREE AND SHRUB BEDS SHALL HAVE A MINIMUM 18" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).

STAKING & GUYING: TREES SHALL BE STAKED AND GUYED AS IS DETAILED ON THE DRAWINGS AND ACCORDING TO ACCEPTED INDUSTRY PRACTICE, ONLY WHEN DIRECTED BY PROJECT CONSULTANT.

LAYOUT: THE CONTRACTOR SHALL LAYOUT WITH IDENTIFIABLE STAKES , THE LOCATION OF ALL PLANTS AND THE THE ARRANGEMENT AND OUTLINES OF PLANTING BEDS AS INDICATED ON THE DRAWINGS. PRIOR TO ANY EXCAVATION OF PLANT PITS OR PREPARATION OF PLANT BEDS, THE PROJECT CONSULTANT SHALL APPROVE THE LAYOUT OF PLANTING. ALL PLANTING SHALL BE AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT AND LAYOUT OF PLANTING BEDS. MINOR ADJUSTMENTS TO TREE LOCATIONS MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IF MAJOR ADJUSTMENTS ARE ANTICIPATED.

ADVERSE CONDITIONS: THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IN WRITING OF ANY SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO PLANT GROWTH. THE DOCUMENTED CONDITIONS SHALL INCLUDE A PROPOSAL FOR CORRECTING THE SITUATION, INCLUDING ANY CHANGE IN COST, FOR REVIEW AND ACCEPTANCE BY THE PROJECT CONSULTANT.

QUANTITY: THE QUANTITY OF PLANTS IN THE PLANT SCHEDULE IS FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL OBTAIN QUANTITIES FOR PRICING BY COMPILING NUMBERS FROM THE PLANTS ILLUSTRATED ON THE DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE DRAWINGS AND THE PLANT SCHEDULE, THE QUANTITIES ILLUSTRATED ON THE DRAWINGS SHALL TAKE PRECEDENCE.

GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A FULL YEAR FROM THE DATE OF INITIAL ACCEPTANCE. IT IS THE CONTRACTORS RESPONSIBILITY TO MONITOR THE PROJECT DURING THE GUARANTEE PERIOD AND NOTIFY THE OWNER IN WRITING IF PROBLEMS ARE OCCURRING OR SITUATIONS DEVELOPED THAT APPEAR DETRIMENTAL TO THE PLANT MATERIAL. ANY PLANT MATERIAL THAT IS 25% DEAD OR MORE SHALL BE CONSIDERED DEAD AND MUST BE REPLACED AT NO CHARGE TO THE OWNER. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR THERE IS 25% OF THE CROWN DEAD.

TURFGRASS SOD NOTES

CERTIFICATION - THE CONTRACTOR SHALL FURNISH AND INSTALL CERTIFIED 'TIFTUF' BERMUDA SOD, GROWN FROM CERTIFIED HIGH QUALITY SEED OF LOCAL ORIGIN. SOD SHALL BE INSPECTED BY THE OFFICIAL CERTIFICATION AGENCY OF THE STATE TO ASSURE SATISFACTORY GENETIC IDENTITY AND PURITY, OVERALL HIGH QUALITY AND FREEDOM FROM NOXIOUS WEEDS AND EXCESSIVE AMOUNTS OF OTHER CROP AND WEEDY PLANTS AT TIME OF HARVEST. SOD MUST MEET THE PUBLISHED STATE STANDARDS FOR CERTIFICATION. INSTALL ONLY BETWEEN SEPTEMBER AND MAY INCLUSIVE.

MATERIAL - SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 1" PLUS OR MINUS 1/4" AT THE TIME OF CUTTING. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10% OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE. ONLY MOIST, FRESH UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 16 HOURS.

SOIL AMENDMENTS - ALL FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT. FERTILIZER APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. DISTRIBUTE EVENLY OVER AREA TO BE SODDED. LIME AND FERTILIZER SHALL BE UNIFORMLY MIXED INTO THE TOP 2 INCHES OF SOIL BY DISCING, HARROWING OR OTHER APPROVED METHODS.

THE FINAL DETERMINATION OF THE USE AND APPLICATION RATES OF ALL SOIL AMENDMENTS INCLUDING FERTILIZERS, LOW AND HIGH PH CORRECTION MATERIALS SHALL BE BASED UPON RECOMMENDATIONS OF THE STATE AGRICULTURAL EXTENSION SERVICE FOR THE VARIETY OF TURFGRASS BEING SPECIFIED.

FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN SHALL BE USED IN LIEU OF TOP DRESSING. APPLY LIMESTONE (EQUIVALENT OF 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

Soil Texture	Tons/Acre	lbs/1000 sf
Clay and clay loam and high organic soil	4	180
Sandy loam, loam, silt loam	3	135
Loamy sand, sand	2	90

WORK PULVERIZED DOLOMITIC LIMESTONE LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM, FINE SEEDBED IS PREPARED.

TOPSOIL: TOPSOIL USED SHALL BE FERTILE AGRICULTURAL SOIL; TYPICAL FOR LOCALITY; CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH; TAKEN FROM DRAINED SITES; FREE OF SUBSOIL, STONES, CLAY OR IMPURITIES, PLANTS, WEEDS AND ROOTS; PH VALUE MINIMUM 5.4, MAXIMUM 7.0; ORGANIC CONTENT 5 TO 7 PERCENT.

ALL SEED AND SOD AREAS SHALL HAVE A MINIMUM 6" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).

SOIL PREPARATION - REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS SUCH AS WIRE, ROCKS, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL. INSPECT SITE JUST BEFORE SODDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

INSTALLATION - PLACE SOD STRIPS WITH SNUG EVEN JOINTS THAT ARE STAGGERED OPEN, SPACES INVITE EROSION. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OR FOOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE DRYING OF THE ROOTS.

SLOPES - SOD STRIPS SHALL BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE. STARTING AT THE BOTTOM OF THE SLOPE, AND WORKING UP ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE). WHEN SURFACE WATER CANNOT BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, PROVIDE A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES TO PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF THE SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREA. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.

WATERING - IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. THE CONTRACTOR SHALL INSURE THE MAINTENANCE OF OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.

TOPDRESSING - IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY. SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET.

PROTECTION - THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR LAWN AREAS AT ALL TIMES AGAINST DAMAGE OF ANY KIND DURING INSTALLATION OR OTHER RELATED OPERATIONS. SUCH PROTECTION SHALL BE MAINTAINED FROM THE COMPLETION OF SITE PREPARATION TO THE COMPLETION OF CONTRACT WORK.

MOWING - TURFGRASS SHALL BE ALLOWED TO GROW TO A HEIGHT OF 3 INCHES PRIOR TO THE FIRST MOWING. THE GRASS SHALL BE PROPERLY MOWED TO A HEIGHT OF 2 TO 2 ½ INCHES. NEVER, IN ANY CASE, CUT MORE THAN 1/3 THE HEIGHT OF THE GRASS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AT LEAST THE FIRST 2 MOWINGS AND ANY OTHER MOWING NECESSARY UNTIL FINAL ACCEPTANCE.

GUARANTEE - THE CONTRACTOR SHALL GUARANTEE THAT UPON COMPLETION AND ACCEPTANCE OF THE WORK, ALL PORTIONS THEREOF WILL BE IN ACCORDANCE WITH THE CONTRACT AND SPECIFICATIONS. THE SAME CONDITION SHALL REMAIN FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL FURTHER WARRANT THAT DURING THE PERIOD OF THE GUARANTEE, HE WILL MAKE GOOD ANY DEFECTS TO THE WORK AND ALL DAMAGE CAUSED TO PROPERTY OF THE OWNER BY SUCH DEFECTS OR BY THE WORK REQUIRED TO REMEDY SUCH DEFECTS.

PLANT SCHEDULE

LARGE TREES

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	QL	21	*Quercus lyrata* (Overcup Oak)	14' min	-	3" min.	-	Single, straight leader; full crown
	CA	13	*Carpinus caroliniana* (American Hornbeam)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	NS	5	*Nyssa sylvatica Red Splyndor* (Red Splyndor Tupelo)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	CE	4	*Celtis occidentalis* (Hackberry)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	QV	4	*Quercus virginiana* (Live Oak)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	QP	7	*Quercus phellos* (Willow Oak)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	TD	5	*Taxodium dist. 'Shawnee Brave'* (Shawnee Brave Bald Cypress)	12' min	-	2.5" min.	-	Single, straight leader; full crown
	BN	5	*Betula nigra 'Dura-Heat'* (River Birch)	12' min	-	2" min.	-	Multistemmed; full crown
	LT	2	*Liriodendron tulipifera* (Tulip Poplar)	12' min	-	2.5" min.	-	Single, straight leader; full crown

SMALL TREES

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	AS	1	*Alnus serrulata* (Tag Alder)	6' min	-	1.5" min.	-	
	IN	13	*Ilex x 'Nellie Stevens'* (Nellie Stevens Holly)	8' min	-	1.5" min.	-	Single, straight leader; full crown
	CF	17	*Cercis canadensis* 'Forest Pansy' (Forest Pansy Redbud)	8' min	-	1.5" min.	-	
	MG	24	*Magnolia gr. 'Little Gem'* (Little Gem Magnolia)	6' min	-	1" min.	-	
	CC	3	*Cornus fl. 'Cherokee Princess'* (Flowering Dogwood)	8' min	-	1.5" min.	-	
	AG	15	*Amelanchier gr. Autumn Brilliance* (A. B. Serviceberry)	8' min	-	1.5" min.	-	Multistemmed; full crown
	MV	8	*Magnolia virginiana Australis* (Sweetbay Magnolia)	8' min	-	1.5" min.	-	Multistemmed; full crown
	MC	23	*Myrica cerifera* (Southern Wax Myrtle)	8' min	-	1.5" min.	-	Multistemmed; tree form; full crown

SHRUBS

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	IS	78	*Ilex glabra 'Shamrock'* (Shamrock Inkberry Holly)	18" min	-	-	#3	Plant @ 3.5' oc
	AR	30	*Aronia arbutifolia 'Brilliantissima'* (Red Chokeberry)	24" min	-	-	#3	Plant @ 3.5' oc
	AB	21	*Aronia arbutifolia 'Brilliantissima'* (Red Chokeberry)	36" min	-	-	#15	Plant @ 3.5' oc
	IG	62	*Ilex glabra 'Gem Box'* (Gem Box Inkberry Holly)	15" min	-	-	#3	Plant @ 2 - 2.5' oc
	VD	9	*Viburnum dentatum 'Christom'* (Arrowwood Viburnum)	18" min	-	-	#3	Plant @ 5' oc
	JP	0	*Juniperus chinensis 'Parsonii'* (Parson's Juniper)	18" min	-	-	#10	Plant @ 4' oc
	IC	0	*Ilex crenata 'Compacta'* (Compacta Holly)	18" min	-	-	#3	Plant @ 5' oc
	HM	21	*Hibiscus moscheutos* (Swamp Rose Mallow)		-	-	#3	Plant @ 2.5' oc
	IDW	30	*Ilex decidua 'Warren's Red'* (Possomhaw)	xx" min	-	-	#7	Plant @ 5' oc
	IDM	3	*Ilex decidua 'Midas'* (Possomhaw (male))	xx" min	-	-	#7	Plant @ 5' oc
	IT	26	*Itea virginica 'Henry's Garnet'* (Henry's G. Virginia Sweetspire)		-	-	#3	Plant @ 5' oc
	LB	6	*Lindera benzoin* (Spicebush)		-	-	#3	Plant @ 6' oc
	HQ	22	*Hydrangea paniculata 'Quick Fire'* (Quick Fire Hydrangea)		-	-	#10	Plant @ 5' oc
	VV	9	*Viburnum nudum* (Winterthur Viburnum (Possumhaw)		-	-	#3	Plant @ 5' oc min or as shown
	DE	35	*Distylium 'Emerald Heights'* (Emerald Heights Distylium)		-	-	#5	Plant @ 6' oc
	KP	5	*Kosteletzkya pentacarpos* (Marsh Mallow)		-	-	#1	Plant @ 2.5' oc
	CO	5	*Cephalanthus occidentalis* (Buttonbush)		-	-	#3	Plant @ 5' oc
G	GG	4	*Azalea 'G.G. Gerbing'* (Gerbing Azalea)	24" min		-	#3	Plant @ 5' oc
T	AT	13	*Azalea Encore® Autumn Twist®* (Autumn Twist Azalea)	18" min		-	#3	Plant @ 4' oc
M	AM	19	*Azalea Encore® Autumn Fire®* (Autumn Fire Azalea)	15" min		-	#3	Plant @ 3' oc

GRASSES & PERENNIALS

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
	PV	69	*Panicum virg. 'Northwind'* (Northwind Switchgrass)	18" min	-	-	#3	Plant @ 2' oc
	PA	315	*Panicum virg. 'Shenandoah'* (Switchgrass)	18" min	-	-	#3	Plant @ 18" oc
	CM	1953	*Carex amphibola* (Creek Sedge)	-	-	-	Large plug	Plant @ 18" oc
	AA	474	*Acorus americanus* (Sweet Flag)	-	-	-	Large plug	Plant @ 18" oc
	AC	155	*Acorus gramineus 'Ogon'* (Ogon Sweet Flag)	8" min	-	-	#1	Plant @ 15" oc
	IV	65	*Iris virginica* (Southern Blue Flag Iris)	-	-	-	Large plug	Plant @ 18" oc
	LM	247	*Liriope muscari 'Big Blue'* (Big Blue Lilyturf)	8" min	-	-	#1	Plant @ 15" oc
	EB	78	*Eutrochium dubium* (Coastal Joe Pye Weed)	-	-	-	#1	Plant @ 18" oc
	AI	32	*Asclepias incarnata* (Swamp Milkweed)	-	-	-	#1	Plant @ 2' oc
	MU	157	*Muhlenbergia capillaris* (Pink Muhly Grass)	-	-	-	#1	Plant @ 2' oc
	CL	45	*Chasmanthium latifolium* (River Oats)	-	-	-	#1	Plant @ 2' oc
	LC	62	*Coreopsis lanceolata* (Lanceleaf Coreopsis)	-	-	-	#1	Plant @ 18" oc
	ES	800	*Eragrostis spectabilis* (Purple Lovegrass)	-	-	-	Large plug	Plant @ 12" oc
	CV	430	*Carex vulpinoidea* (Fox Sedge)	-	-	-	Large plug	Plant @ 18" oc
	CR	1040	*Coleataenia rigidula* (Red-top Panic Grass)	-	-	-	Large plug	Plant @ 18" oc
	JE	325	*Juncus effusus* (Soft Rush)	-	-	-	Large plug	Plant @ 18" oc
	VN	107	*Vernonia noveboracensis* (Iron weed)	-	-	-	Large plug	Plant @ 18" oc

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	
0	ISSUED FOR BID	2025-02-07	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING DETAILS, NOTES, & SCHEDULE (ALTERNATE)

Designed by: SR | Date: 02/07/2025 | Rev.
Drawn by: SR | Chd by: MS | M&N Project No. 221315-02
Reviewed by: SR | Drawing code:
Submitted by: MARK R. PRIELLO, MOFFATT & NICHOL | Plot scale: 1:1 (1) SHEET) | Drawing Scale: AS SHOWN

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NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 SHARON RHUE 3/2/2025
SEAL

Sheet Reference No.
CL501A
INDEX: 63A OF 114

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CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301,UNLESS OTHERWISE NOTED.

2. ALL CONCRETE SHALL BE A NORMAL WEIGHT CONCRETE, EXPOSURE CLASS F2, S2, W1, AND C1.

3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315 AND ACI SP-66.

4. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. CONCRETE — 28 DAY STRENGTH
      1. CAST-IN-PLACE CONCRETE . . . . . 5000 PSI
      2. CEMENTIOUS GROUT (UON) . . . . . 7000 PSI

   B. REINFORCING STEEL
      1. REINFORCING STEEL & DOWELS FOR CONCRETE. . . . . ASTM A615, GRADE 60

5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4", 45° CHAMFER, UON.

6. PROVIDE CONCRETE COVER OVER REINFORCEMENT IN ACCORDANCE WITH ACI 318, UON.

7. ALL CONSTRUCTION JOINTS BETWEEN CAST-IN-PLACE CONCRETE AND/OR PRECAST CONCRETE SHALL BE BONDED WITH BONDING AGENT AND BE CLEANED WITH A ROUGHENED SURFACE OF 1/4" AMPLITUDE.

8. PROVIDE A BROOM FINISH ON ALL WALKING SURFACES.

9. ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER ACI 318, UON. SPLICINGS SHALL OCCUR @ 1/3 POINTS OF THE SPAN PER ACI 318.

10. WET CURE CONCRETE CAP ON TOP OF BULKHEAD FOR A MINIMUM OF 7-DAYS, SEE SPECIFICATIONS FOR REQUIREMENTS.

11. ALL CONCRETE SHALL INCLUDE TYPE III MICRO-SYNTHETIC FIBERS IN ACCORDANCE WITH ASTM C1116/C1116M AT A DOSAGE RATE OF 0.5 TO 1.5 LBS/YD^3 BASED ON MANUFACTURER'S RECOMMENDED DOSAGE RATE. FIBERS SHALL BE MASTERFIBER® M100 BY BASF, PSI FIBERSTRAND F BY EUCLID CHEMICAL, SIKAFIBER® PPM 150 BY SIKA, OR APPROVED EQUAL. FIBERS SHALL BE ADDED AT THE BATCH PLANT AND UNIFORMLY DISPERSED IN CONCRETE MIXTURE AS RECOMMENDED BY THE MANUFACTURER.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

2. ALL WELDING SHALL CONFORM TO AWS D1.1.

3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UON:
   A. STRUCTURAL CARBON STEEL . . . . . ASTM A572, GRADE 50, GALV
   B. MISC PLATES, BARS, AND SHAPES . . . . . ASTM A572, GRADE 50, GALV
   C. HIGH STRENGTH BOLTS AND NUTS . . . . . ASTM F3125, GRADE A325 OR A449, GALV
   D. STEEL PIPE PILE . . . . . ASTM A252. GRADE 3, MODIFIED (50 KSI)

4. ALL STEEL SHAPES, PLATES, OTHER FABRICATIONS, AND ALL HARDWARE SHALL BE ZINC-COATED OR GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND F2329, AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED.

5. FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF ASTM A780. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.

SHEET PILES:

1. STEEL SHEET PILING SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS INDICATED ON THE PLANS USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED.

2. SPUDDING AND/OR JETTING OF STEEL SHEET PILES WILL NOT BE ALLOWED.

3. THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE SO AS NOT TO BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS.

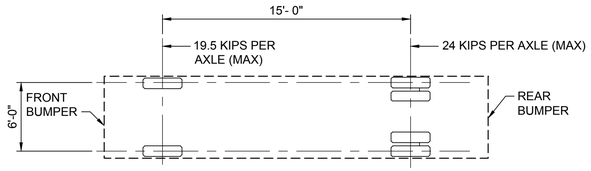
4. STEEL SHEET PILES SHALL CONSIST OF HEAVY GAUGE HOT-ROLLED SECTIONS WITH FULL INTERLOCKING SHEETS CONFORMING TO THE FOLLOWING PROPERTIES:
   A. STEEL SHEET PILES . . . . . ASTM A572, GRADE 60, COATED
   B. NZ-21 SHEET PILES OR APPROVED EQUAL:
      1. SECTION MODULUS . . . . . 38.69 CUBIC INCHES PER FOOT OF WALL
      2. WEB THICKNESS . . . . . 0.433 IN MIN
      3. FLANGE THICKNESS . . . . . 0.433 IN MIN

5. COAT STEEL IN ACCORDANCE WITH THE SPECIFICATIONS.

6. CONTRACTOR SHALL VERIFY COORDINATES & GEOMETRY PRIOR TO ORDERING SHEET PILES.

DESIGN CRITERIA:

1. GRAVITY LOADS:
   A. BOARDWALK & OVERLOOK
      UNIFORM DISTRIBUTED LIVE LOAD. . . . . 100 PSF
   B. BULKHEAD AND RETAINING WALL SURCHARGE . . . . . 250 PSF
   C. TRANSIENT DOCK UNIFORM LIVE LOAD . . . . . SEE SPECIFICATIONS
   D. GREENVILLE FIRE TRUCK . . . . . SEE DIAGRAM



2. SEISMIC DESIGN

	BULKHEAD	ALL OTHERS
A. RISK CATEGORY	III, I_e = 1.25	II, I_e = 1.0

   B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
      S_S = 0.123g
      S_1 = 0.062g
   C. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
      S_{DS} = 0.132g
      S_{D1} = 0.100g
   D. SITE CLASS = D
   E. PGA_M = 0.093g

3. WIND LOADS
   A. WIND VELOCITY. . . . . 121 MPH
   B. RISK CATEGORY. II

4. CODES & REFERENCES:
   A. ACI 318 (AMERICAN CONCRETE INSTITUTE - 2014)
   B. AISC 14th EDITION (AMERICAN INSTITUTE OF STEEL CONSTRUCTION)
   C. ASCE-7 (AMERICAN SOCIETY OF CIVIL ENGINEERS - 2010)
   D. AWS-D1.1 (AMERICAN WELDING SOCIETY)
   E. 2018 NORTH CAROLINA STATE BUILDING CODE
   F. 2018 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES

TIMBER CONSTRUCTION:

1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.

2. TIMBER PILES SHALL BE INSTALLED TO THE MINIMUM EMBEDMENT INDICATED ON THE DRAWINGS.

3. ALL SOLID SAWN LUMBER AND TIMBER SHALL BE TREATED WITH ACZA IN ACCORDANCE WITH AWPA P5 (USE CATEGORY SYSTEM STANDARD U1, USE CATEGORY STANDARD 5C) FOR TIMBER SUBJECT TO FRESHWATER IMMERSION. MINIMUM PRESERVATIVE RETENTION SHALL BE 2.50 POUNDS PER CUBIC FOOT.

4. FIELD TREAT ALL CUTS AND ABRASIONS IN TREATED TIMBERS AND PILES IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD M4. TRIM ALL CUTS AND ABRASIONS BEFORE FIELD TREATMENT. COAT ALL DEPRESSIONS OR OPENINGS AROUND BOLT HOLES, JOINTS OR GAPS INCLUDING RECESSES FORMED BY COUNTER BORING, WITH PRESERVATIVE TREATMENT USED FOR TIMBER.

5. TIMBER RELATED MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. TIMBER PILES. . . . . ASTM D25
   B. TIMBER STRINGERS . . . . . SP NO. 1 DENSE (S4S)
   C. MISC TIMBER (INCLUDING CURBS, WALES, & BLOCKING) . . . . . SP NO. 1 DENSE (S4S)
   D. TIMBER DECKING. . . . . SP SELECT GRADE DECKING
   E. TIMBER BOLTS . . . . . ASTM A307, GALV
   F. NUTS . . . . . ASTM A307, GALV
   G. OGEE WASHERS . . . . . ASTM A48, GALV
   H. SS DECK SCREWS. . . . . SUPER CORROSION RESISTANT TYPE 316L STAINLESS STEEL

6. WHEN CONNECTING HARDWARE IS SHOWN ON THE DRAWINGS, THE TYPE, SIZE, SPACING, AND ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED. DO NOT UNDERCUT WOOD. CONNECTIONS SHALL PULL AND HOLD MEMBERS BEING JOINED INTO CLOSE CONTACT.

7. CHECK ALL BOLTS BY BURRING THE THREADS AFTER THE NUTS HAVE BEEN FINALLY TIGHTENED.

8. BORE HOLES FOR THRU BOLTS WITH A BIT 1/16 INCH LARGER IN DIAMETER THAN THE SHANK OF THE BOLT.

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ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

STRUCTURAL NOTES

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIA PIELLO MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
M&N Project No.: 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050779 ENGINEER JEFFREY SWITCH
2/28/2025

SEAL

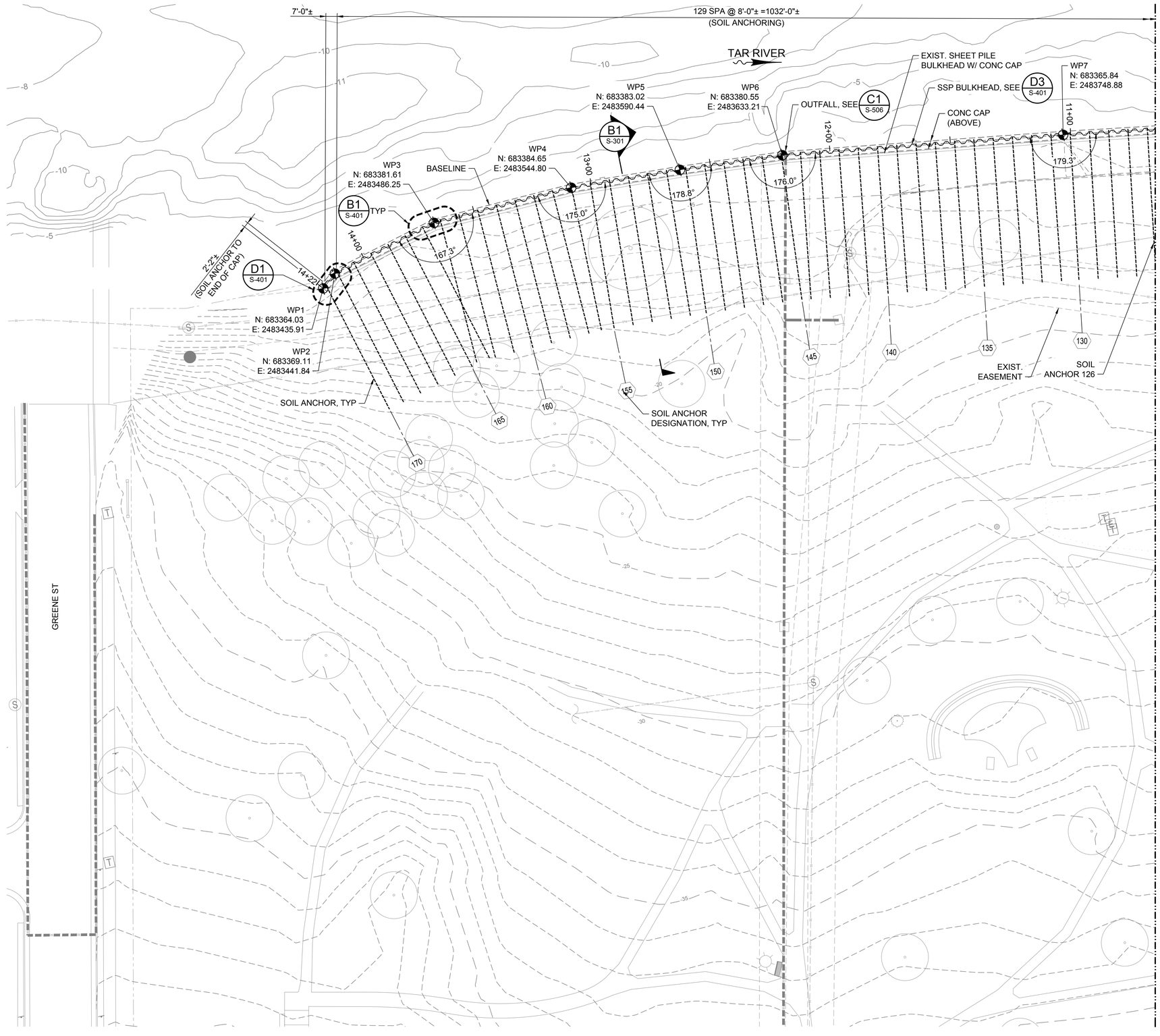
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Sheet Reference No.
S-001
INDEX: 64 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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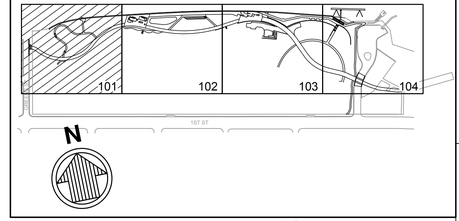
NOTES:

1. SOIL ANCHOR LOCATIONS MAY BE ADJUSTED UP TO 1 FOOT IN THE FIELD TO AVOID OBSTRUCTIONS. SEE SHEET S-507 FOR ADDITIONAL INFORMATION.
2. FOR SOIL ANCHOR SCHEDULE, SEE SHEET S-601.

LEGEND:

- STEEL SHEET PILE BULKHEAD
- # — SOIL ANCHOR DESIGNATION
- WP## — WORKPOINT (ALONG CL OF SSP BULKHEAD)

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 1 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PRICELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering | Surveying | Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY SWYERS 049660
2/28/2025

SEAL

SEAL

Sheet Reference No.
SB101
INDEX: 65 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

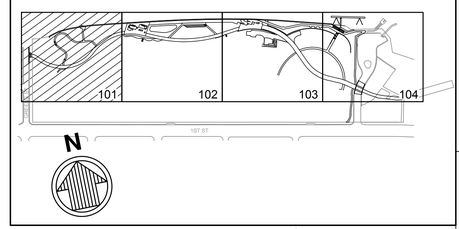
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LEGEND:

- 10"Ø TIMBER PILE
- 12"Ø STEEL PIPE PILES
- (A) PILE ROW DESIGNATION
- (#) PILE BENT DESIGNATION
- WP## WORKPOINT (CENTER OF PILE)

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 1 OF 4 ADDITIVE BID #3

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE LEE GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025

SEAL

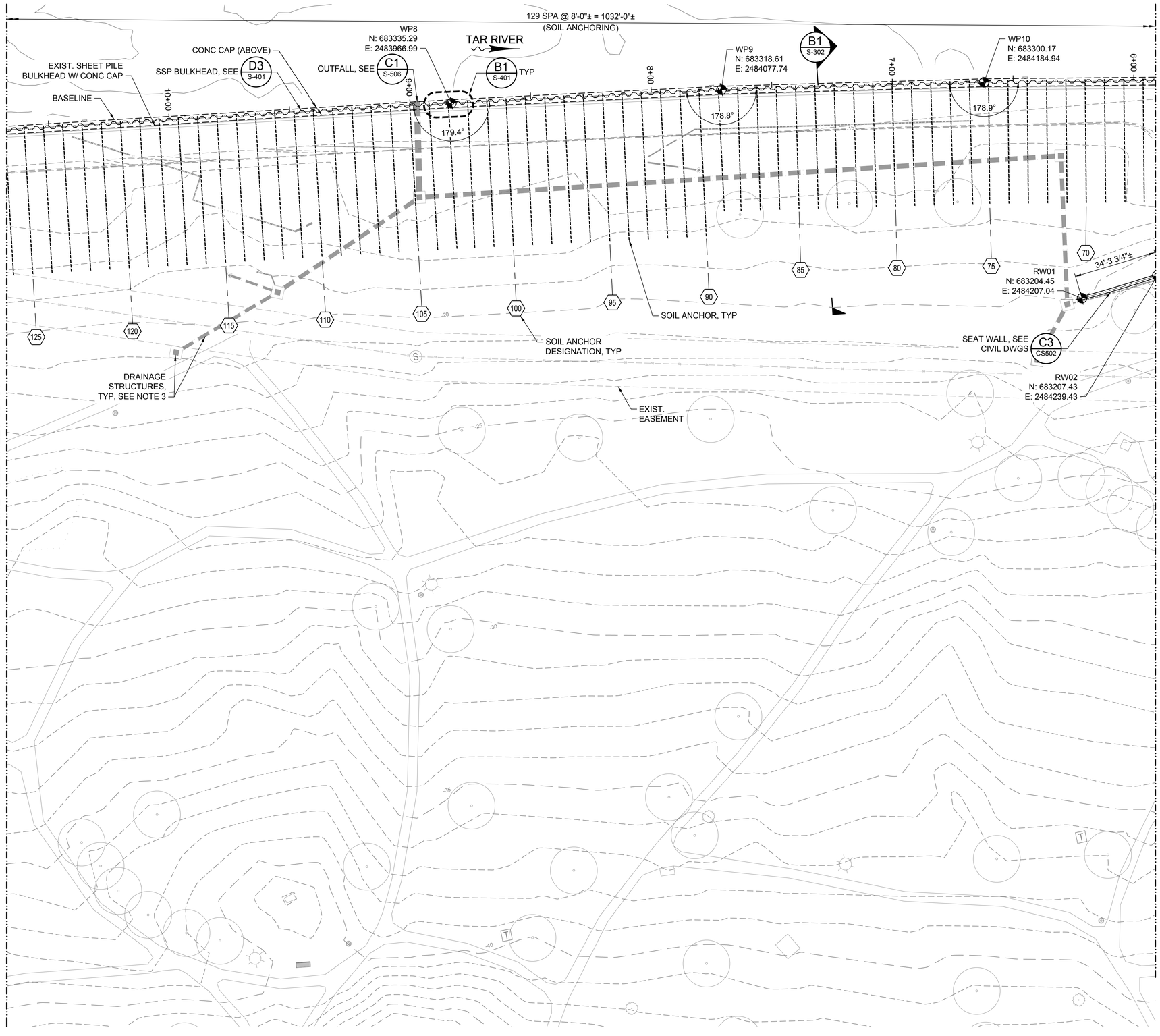
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Sheet Reference No.
SB101A
INDEX: 65A OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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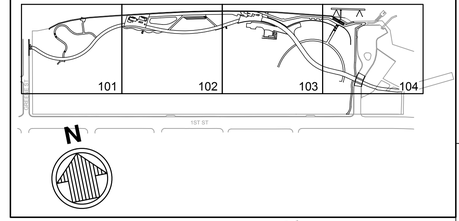
NOTES:

1. SOIL ANCHOR LOCATIONS MAY BE ADJUSTED UP TO 1 FOOT IN THE FIELD TO AVOID OBSTRUCTIONS. SEE SHEET S-507 FOR ADDITIONAL INFORMATION.
2. FOR SOIL ANCHOR SCHEDULE, SEE SHEET S-601.
3. FOR STORM DRAINAGE ELEVATIONS, SEE CIVIL DRAWINGS.

LEGEND:

- STEEL SHEET PILE BULKHEAD
- # — SOIL ANCHOR DESIGNATION
- WP## — WORKPOINT (ALONG CL OF SSP BULKHEAD)
- RW## — WORKPOINT (ALONG CL OF RETAINING WALL)

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 2 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Chkd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY SWICK 049660
2/28/2025

SEAL

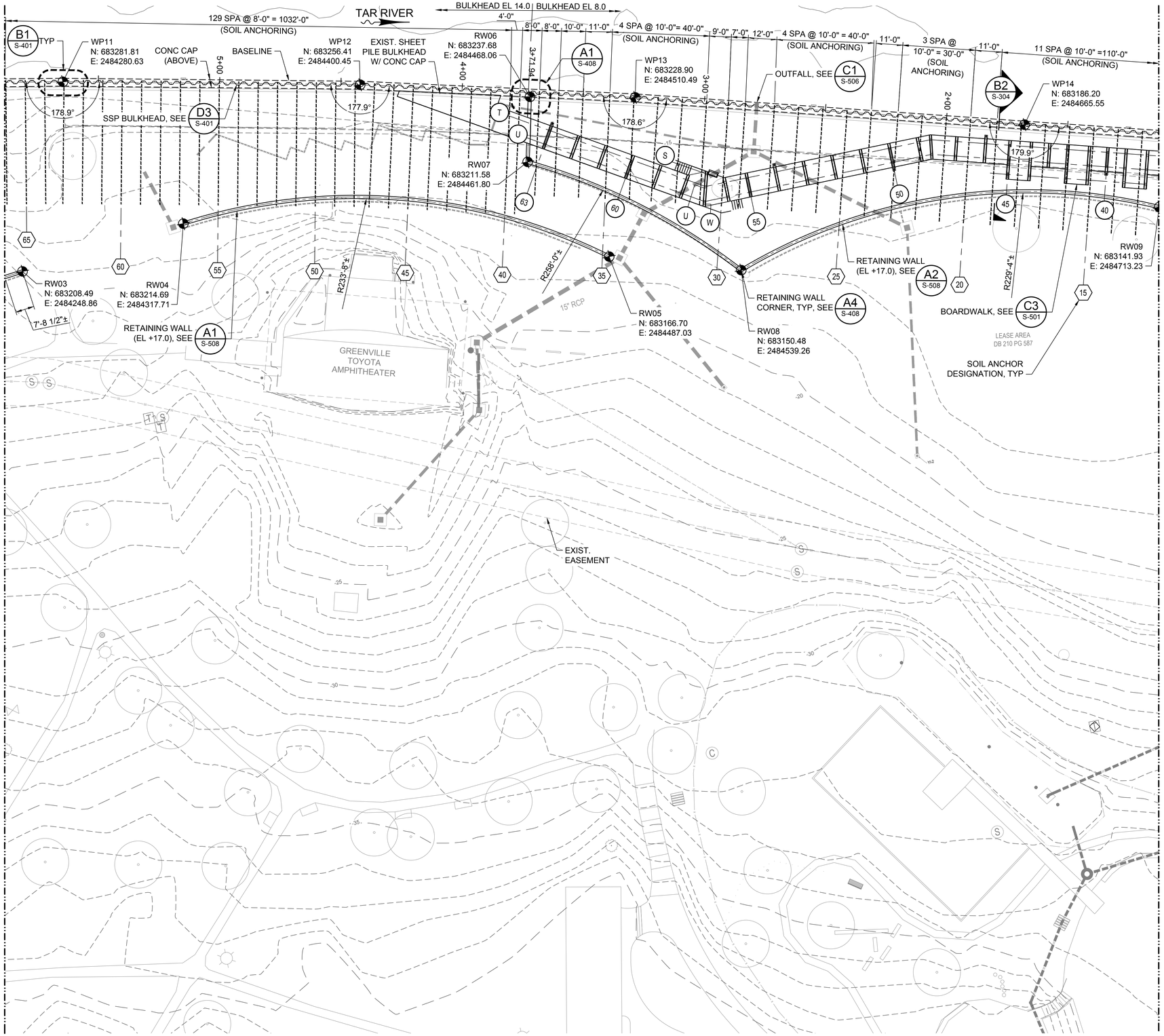
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Sheet Reference No.
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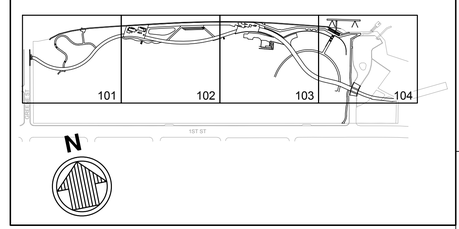
NOTES:

1. SOIL ANCHOR LOCATIONS MAY BE ADJUSTED UP TO 1 FOOT IN THE FIELD TO AVOID OBSTRUCTIONS. SEE SHEET S-507 FOR ADDITIONAL INFORMATION.
2. FOR SOIL ANCHOR SCHEDULE, SEE SHEET S-601.
3. FOR ENLARGED TIMBER BOARDWALK PILE PLAN, SEE SHEETS S-402 & S-403.

LEGEND:

- ∘ 10"Ø TIMBER PILE/ 12"Ø STEEL PIPE PILES
- STEEL SHEET PILE BULKHEAD
- (#) SOIL ANCHOR DESIGNATION
- (A) PILE ROW DESIGNATION
- (#) PILE BENT DESIGNATION
- WP## WORKPOINT (ALONG CL OF SSP BULKHEAD)
- RW## WORKPOINT (ALONG CL OF RETAINING WALL)

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 3 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
049774
GRAHAM C. COOPER
REGISTERED
PROFESSIONAL
ENGINEER
BY REY SWYERS
2/28/2025

SEAL

SEAL

Sheet Reference No.
SB103
INDEX: 67 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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11 SPA @ 10'-0" =110'-0"
(SOIL ANCHORING)

6 SPA @ 10'-0" = 60'-0"
(SOIL ANCHORING)

7'-0"

1'-11"±
(SOIL ANCHOR TO END OF CAP)

SSP BULKHEAD, SEE D3 S-401

BASELINE

CONC CAP (ABOVE)

B1 S-401

1+00±

154.6'

WP15
N: 683160.14
E: 2484760.34

B1 S-305

B3 S-401

TAR RIVER

EXIST. KAYAK LAUNCH

EXIST. PIER

6-FT BOARDWALK

WP16
N: 683115.16
E: 2484812.44

A1 S-501

A2 S-508

RETAINING WALL (EL +17.0)

RW11
N: 683102.62
E: 2484762.17

RW10
N: 683107.49
E: 2484766.38

RW12
N: 683104.54
E: 2484778.49

RW13
N: 683112.39
E: 2484785.24

RW18
N: 683106.98
E: 2484804.79

RW17
N: 683100.80
E: 2484799.46

R77'-0"±

SOIL ANCHORING DESIGNATION, TYP

RETAINING WALL TO RETAINING WALL CONNECTION, SEE C4 S-408

EXIST. SHEET PILE BULKHEAD W/ CONC CAP

RETAINING WALL (EL +16.25)

RW14
N: 683009.79
E: 2484821.71

WETLAND AREA

MATCH LINE - SEE SHEET SB103

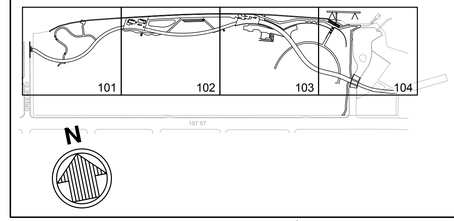
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2. FOR SOIL ANCHOR SCHEDULE, SEE SHEET S-601.
3. FOR ENLARGED TIMBER BOARDWALK PILE PLAN, SEE SHEETS S-402 & S-403.

LEGEND:

- ∘ — 10"Ø TIMBER PILE/ 12"Ø STEEL PIPE PILES
- STEEL SHEET PILE BULKHEAD
- (#) — SOIL ANCHOR DESIGNATION
- (A) — PILE ROW DESIGNATION
- (#) — PILE BENT DESIGNATION
- WP## — WORKPOINT (ALONG CL OF SSP BULKHEAD)
- RW## — WORKPOINT (ALONG CL OF RETAINING WALL)

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 4 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PRELLO, MOFFATT & NICHOL
Rev.: 1
Date: 2025-02-07
M&N Project No.: 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050779 JEFFREY SWICK 2/28/2025

SEAL

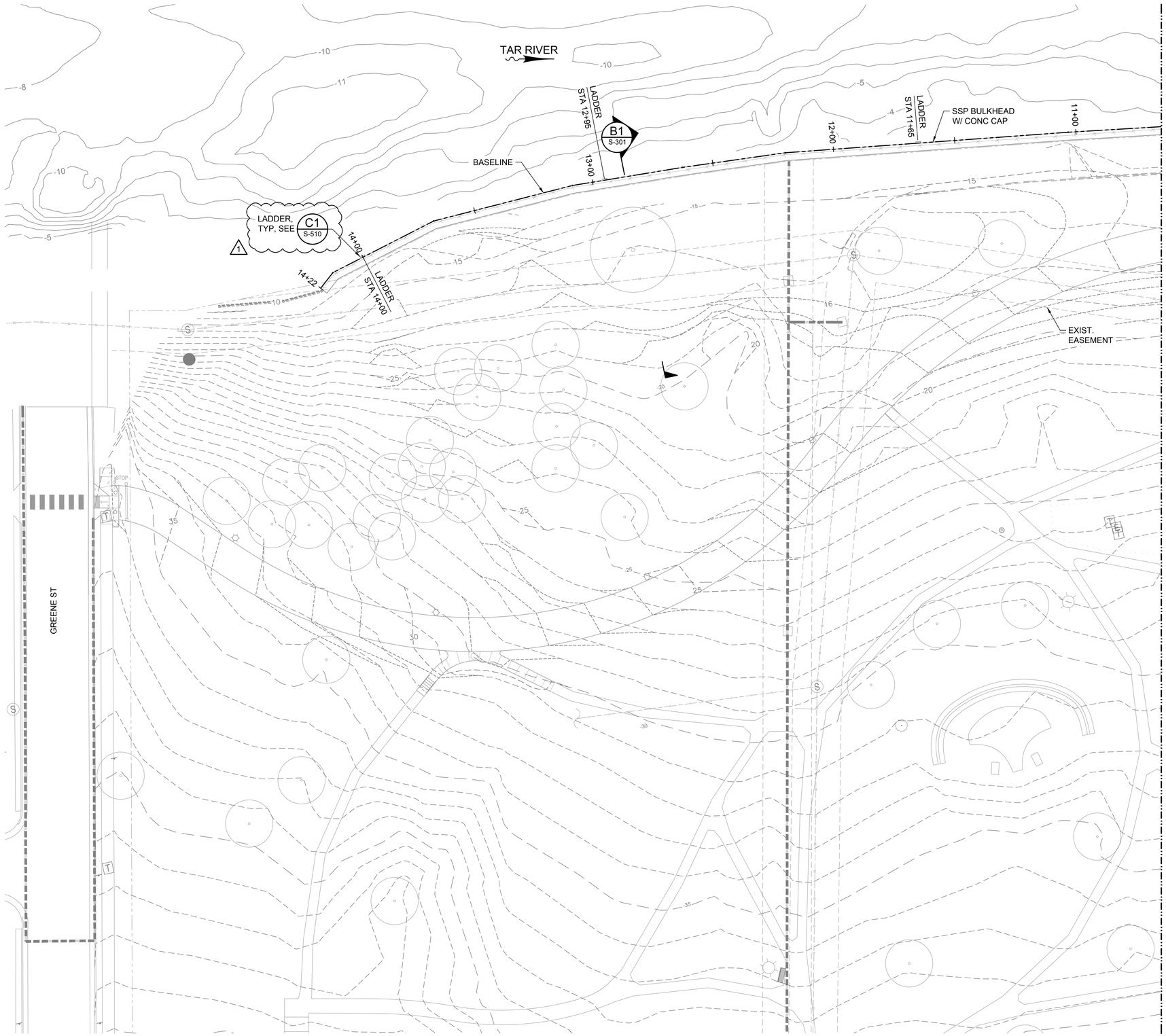
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Sheet Reference No.
SB104
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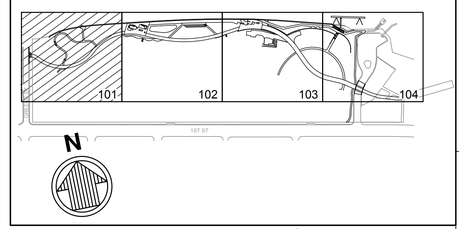
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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KEY PLAN





20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2026-02-26	JHS
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 1 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Date: 2025-02-07
Rev: 1
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering : Surveying : Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
ST101
INDEX: 69 OF 114

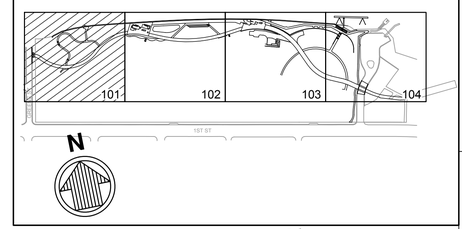
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KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 1 OF 4 ADDITIVE BID #3

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050770 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

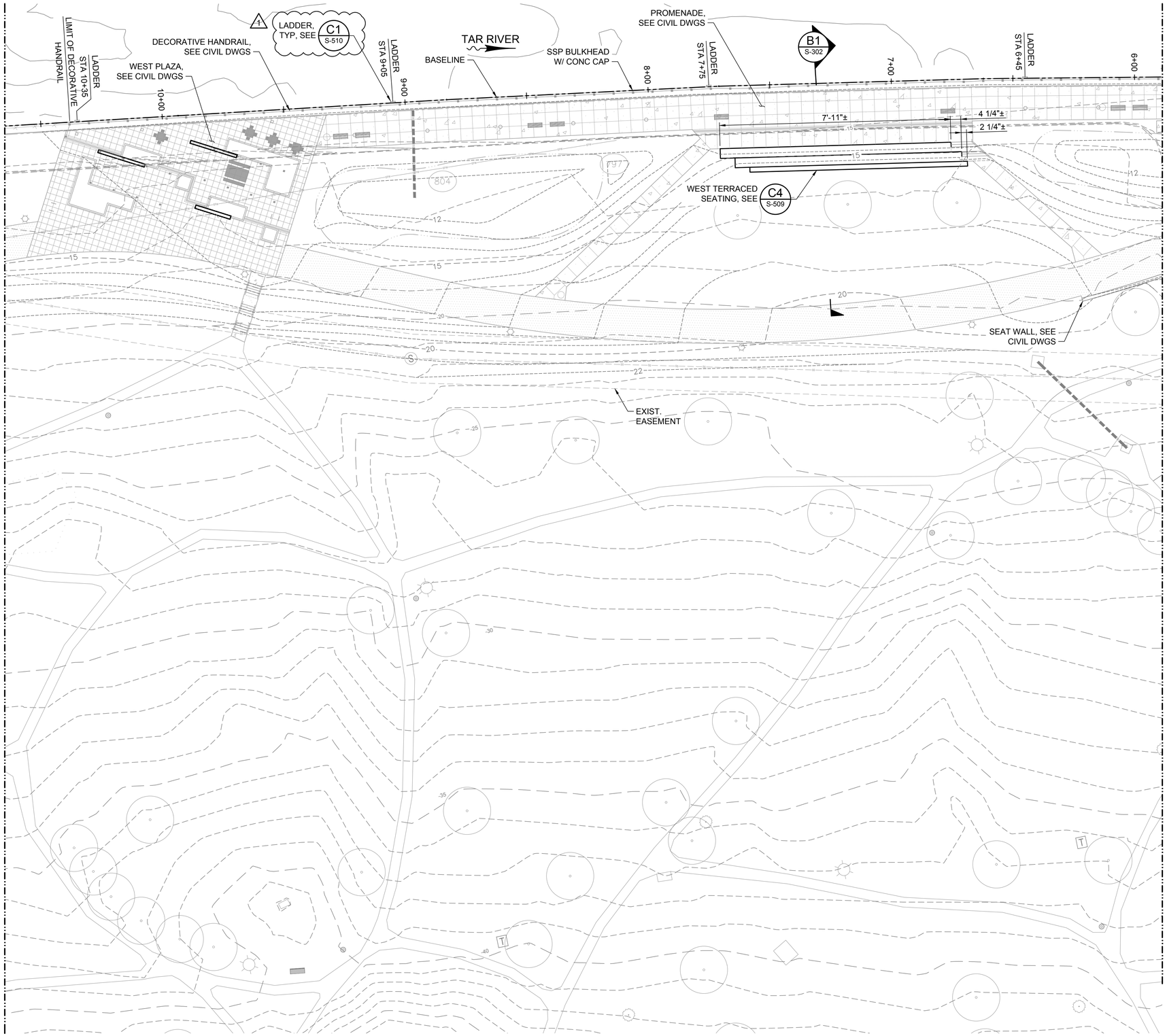
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Sheet Reference No.
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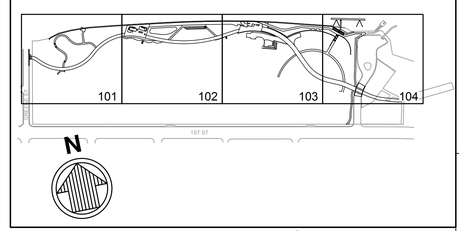
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KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JHS
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 2 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: JAMES HELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev: 1
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering | Surveying | Technology
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-3206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038977 JEFFREY SWYERS REGISTERED
2/28/2025
SEAL

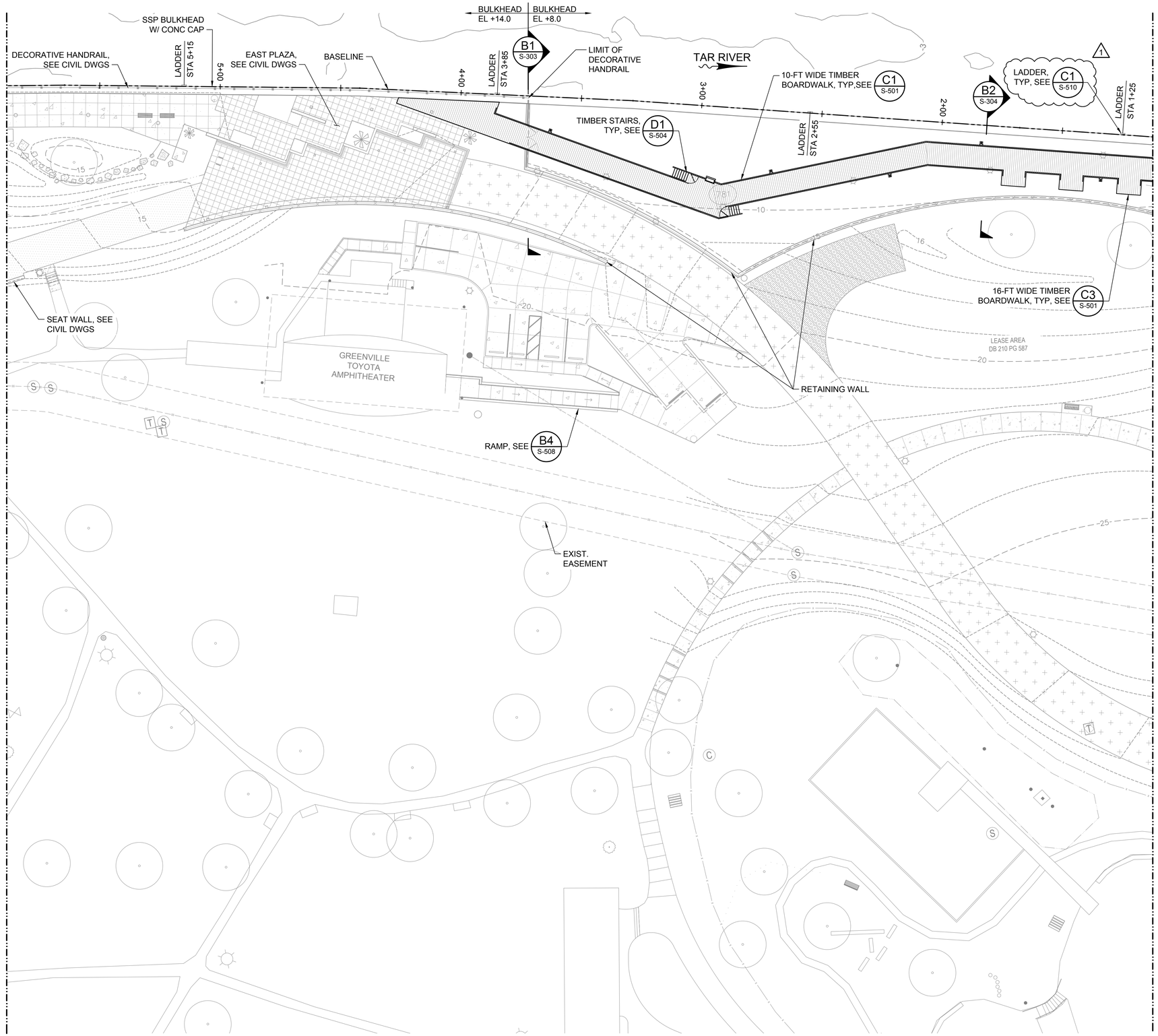
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Sheet Reference No.
ST102
INDEX: 70 OF 114

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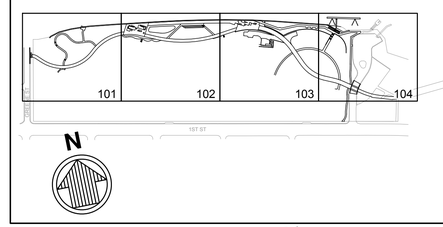
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NOTES:

1. FOR ENLARGED TIMBER BOARDWALK FRAMING PLANS, SEE SHEETS S-404 & S-405.
2. FOR ENLARGED TIMBER BOARDWALK DECK PLANS, SEE SHEETS S-406 & S-407.

KEY PLAN



N

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO.1	2025-02-28	JMS
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 3 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO
Date: 2025-02-07
Rev: 1
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering : Surveying : Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS 2/28/2025

SEAL

SEAL

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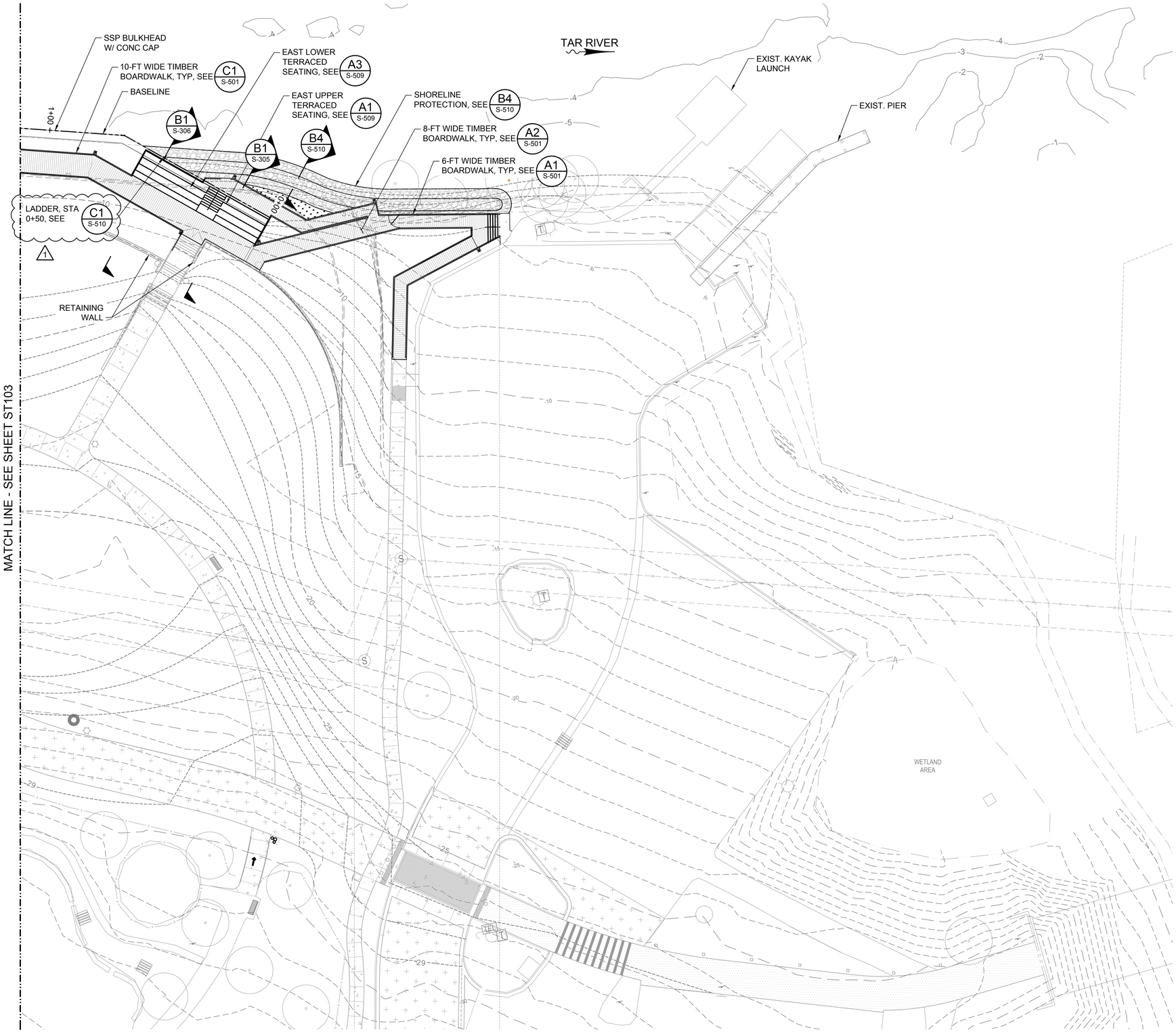
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

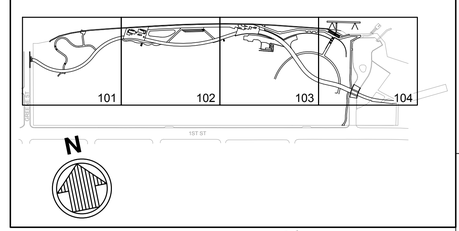
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NOTES:

1. FOR ENLARGED TIMBER BOARDWALK FRAMING PLANS, SEE SHEETS S-404 & S-405.
2. FOR ENLARGED TIMBER BOARDWALK DECK PLANS, SEE SHEETS S-406 & S-407.

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20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JMS
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 4 OF 4 BASE BID

Designed by: J. SWYERS
Drawn by: VNM
Date: 2025-02-07
Rev.: 1
Cad by: MAP
MAN Project No. 221315.02
Drawing code:
Reviewed by: D. JACOBSON
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: MARK PERELLO
MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EARL GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
USDOT No.
3888
JEFFREY SNYDER
2/28/2025

SEAL

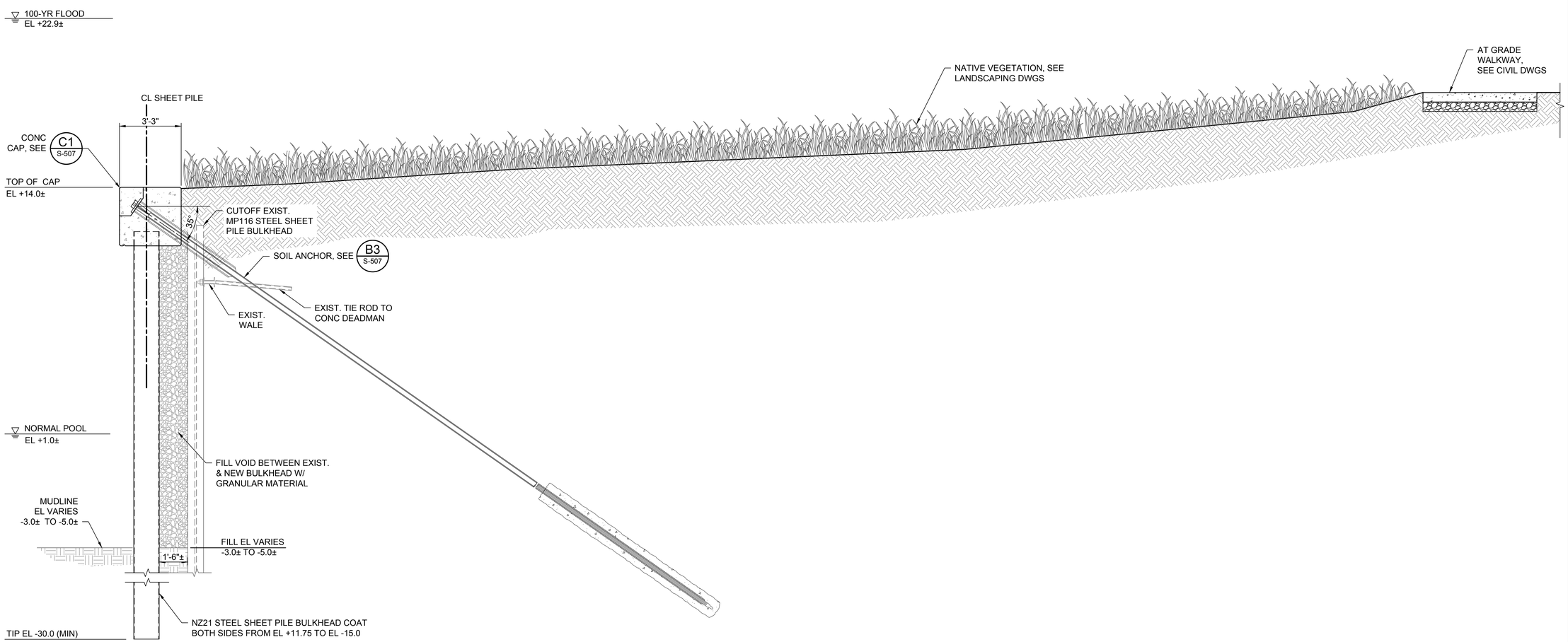
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Sheet Reference No.
ST104
INDEX: 72 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



B1 / SB101 — SECTION - WEST END BULKHEAD
SCALE: 3/8"=1'-0"

ST101, ST101A

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION
SHEET 1 OF 6

Date: 2025-02-07 | Rev. 1
Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
MAN Project No. 221315-02
Drawing code:
Reviewed by: D. JACOBSON
Submitted by: MARK MORELLO
MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering | Surveying | Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

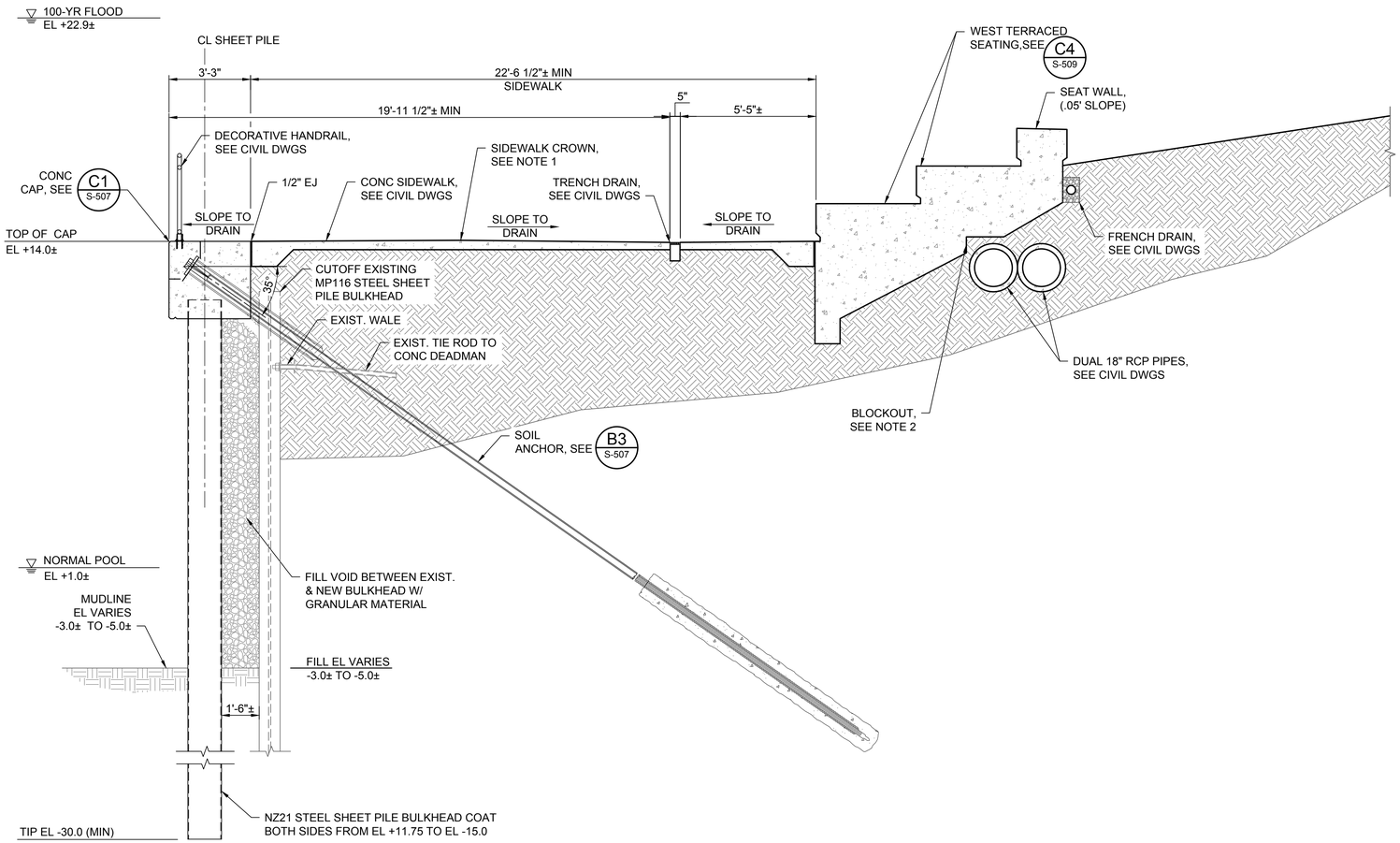
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEREMY R. SWYERS 2/28/2025
SEAL

SEAL

Sheet Reference No.
S-301
INDEX: 73 OF 114

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NOTES:

1. REFER TO CIVIL DRAWINGS FOR GRADING, SIDEWALK, & TERRACED SEATING ELEVATIONS.
2. TERRACED SEATING TO INCLUDE BLOCKOUT THAT PROVIDES A MINIMUM OF 2" CLEARANCE TO NEW 18" RCP PIPES. SEE CIVIL DRAWINGS FOR INVERT ELEVATIONS FOR RCP PIPES.

B1 / SB102 — ST102

SECTION - CENTRAL PLAZA

SCALE: 3/8"=1'-0"

4'-0" 0'-0" 2'-0" 4'-0"

SCALE: 3/8"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Rev.	Description	Date	Auth
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 2 OF 6

Date: 2025-02-07
Rev. 1
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)

Designed by: J. SWYERS
Dwn by: VNM
Ckd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO: F-0105

THE EAST GROUP
Engineering Surveying Environment Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

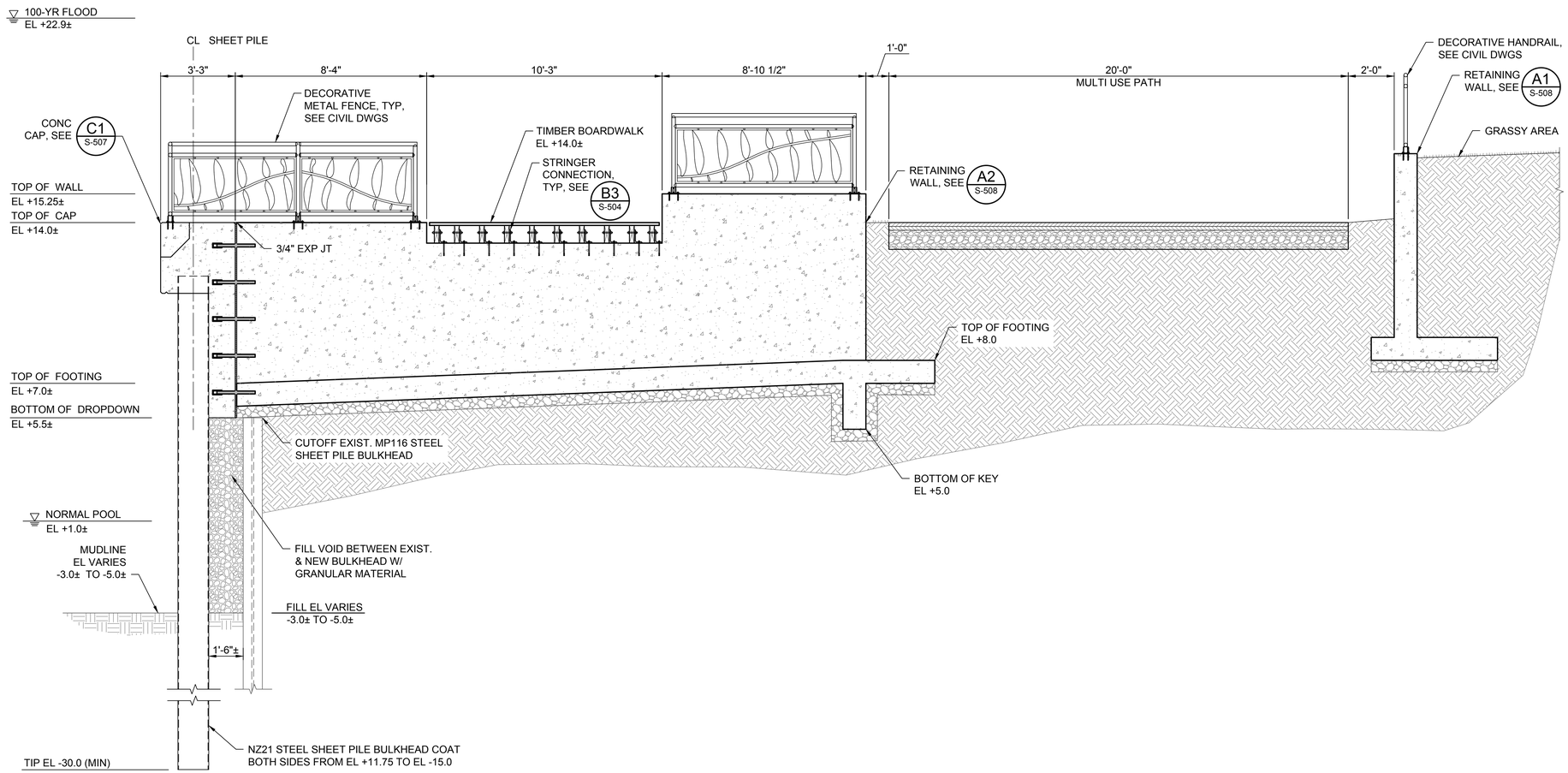
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Sheet Reference No.
S-302
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



NOTE:

REFER TO CIVIL DRAWINGS FOR GRADING, MUTI USE PATH & TOP OF RETAINING WALL ELEVATIONS.

B1 / ST103 SECTION - BULKHEAD STEP DOWN
SCALE: 3/8"=1'-0"

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 3 OF 6

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev.: 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050778 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

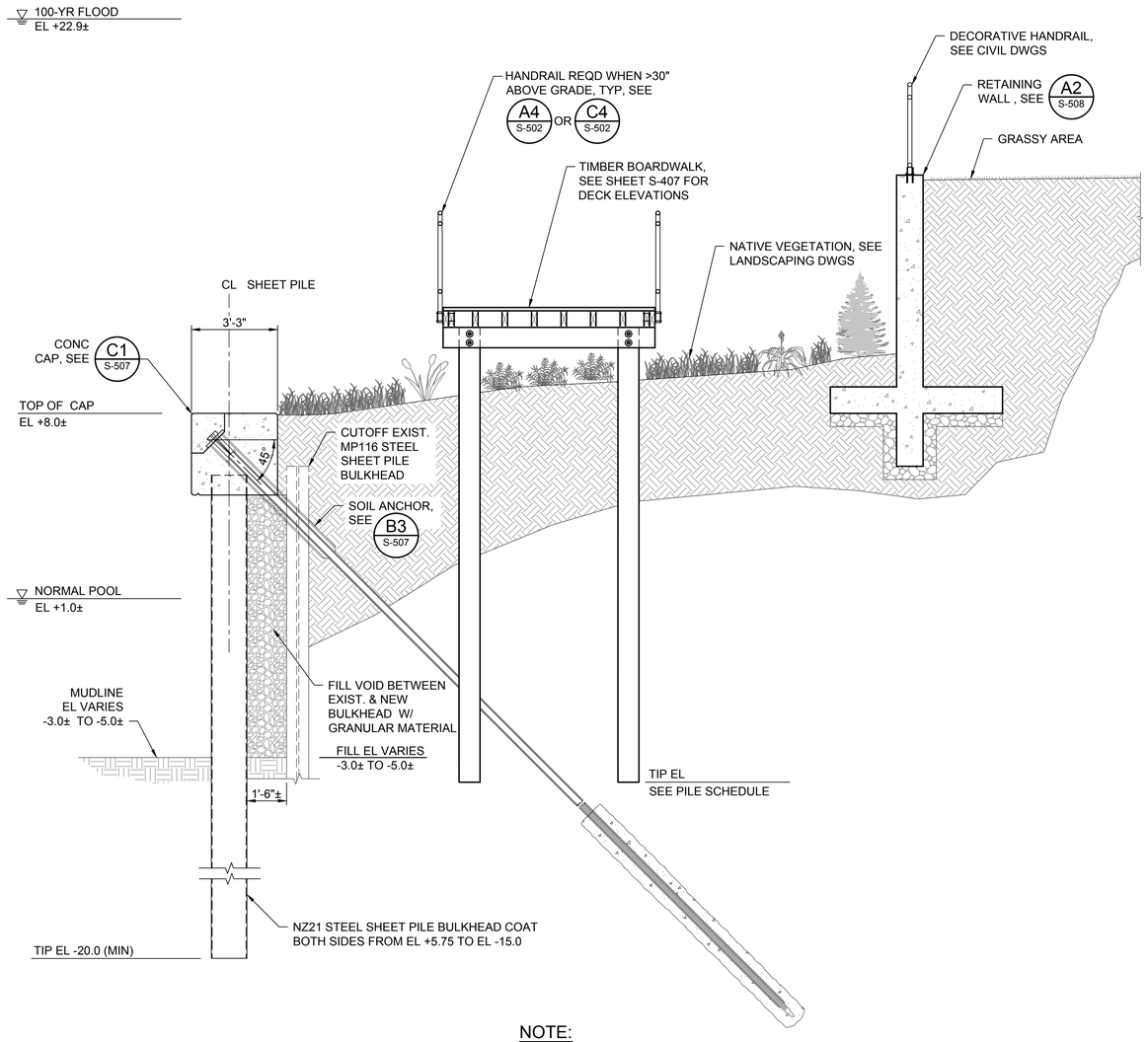
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Sheet Reference No.
S-303
INDEX: 75 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



NOTE:

REFER TO CIVIL DRAWINGS FOR GRADING & TOP OF RETAINING WALL ELEVATIONS.

B2 / SB103 — SECTION
SCALE: 3/8"=1'-0"
ST103

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 4 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev.: 1
Drawn by: VNM
Cad by: MAP
MAN Project No. 221315.02
Drawing code:
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering Surveying Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050779 ENGINEER JEFFREY SWITZER
2/28/2025
SEAL

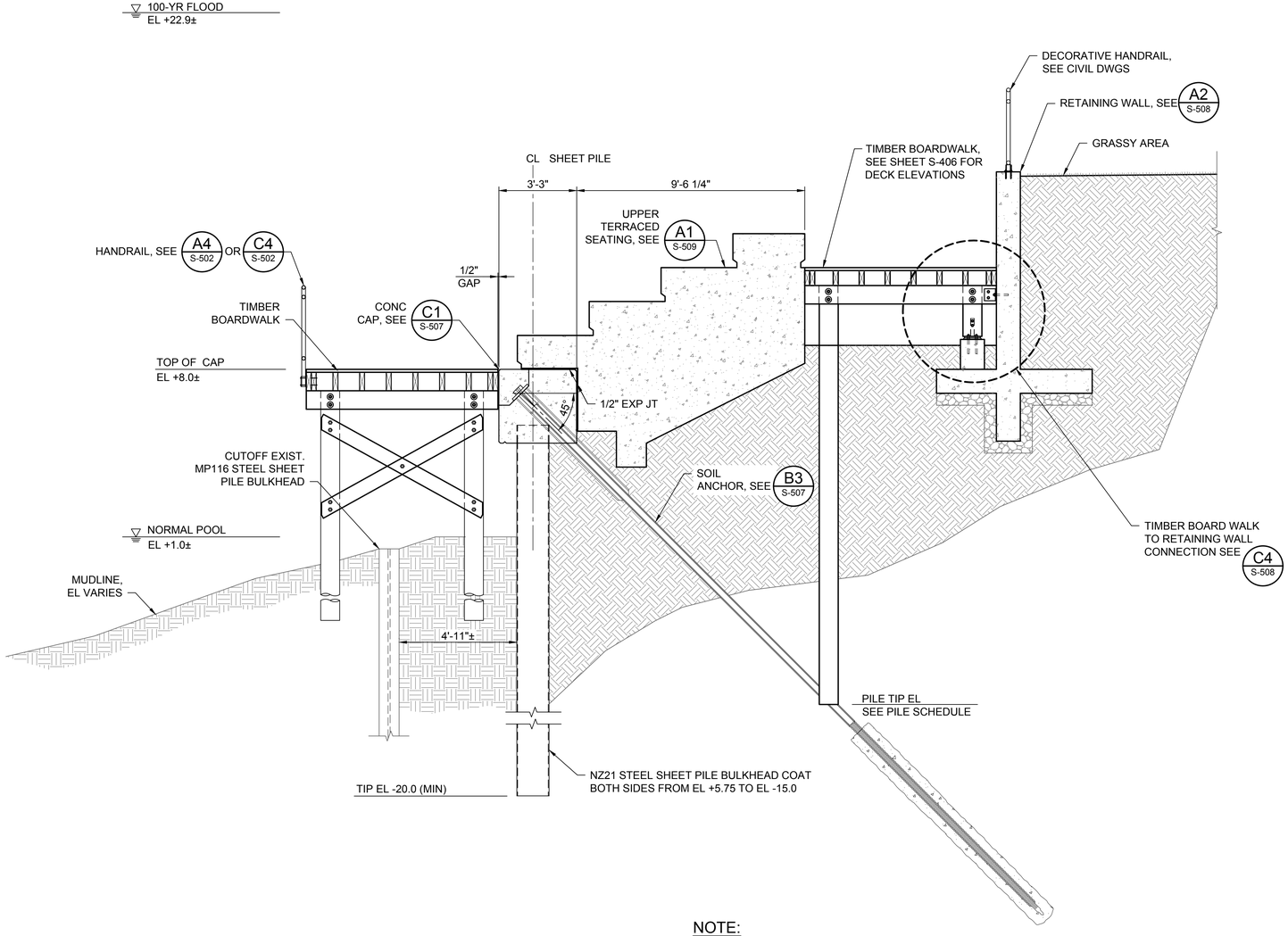
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Sheet Reference No.
S-304
INDEX: 76 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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NOTE:

REFER TO CIVIL DRAWINGS FOR TERRACED SEATING & TOP OF RETAINING WALL ELEVATIONS.

B1 / SB104 — SECTION
SCALE: 3/8"=1'-0"
ST104

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 5 OF 6

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3748
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

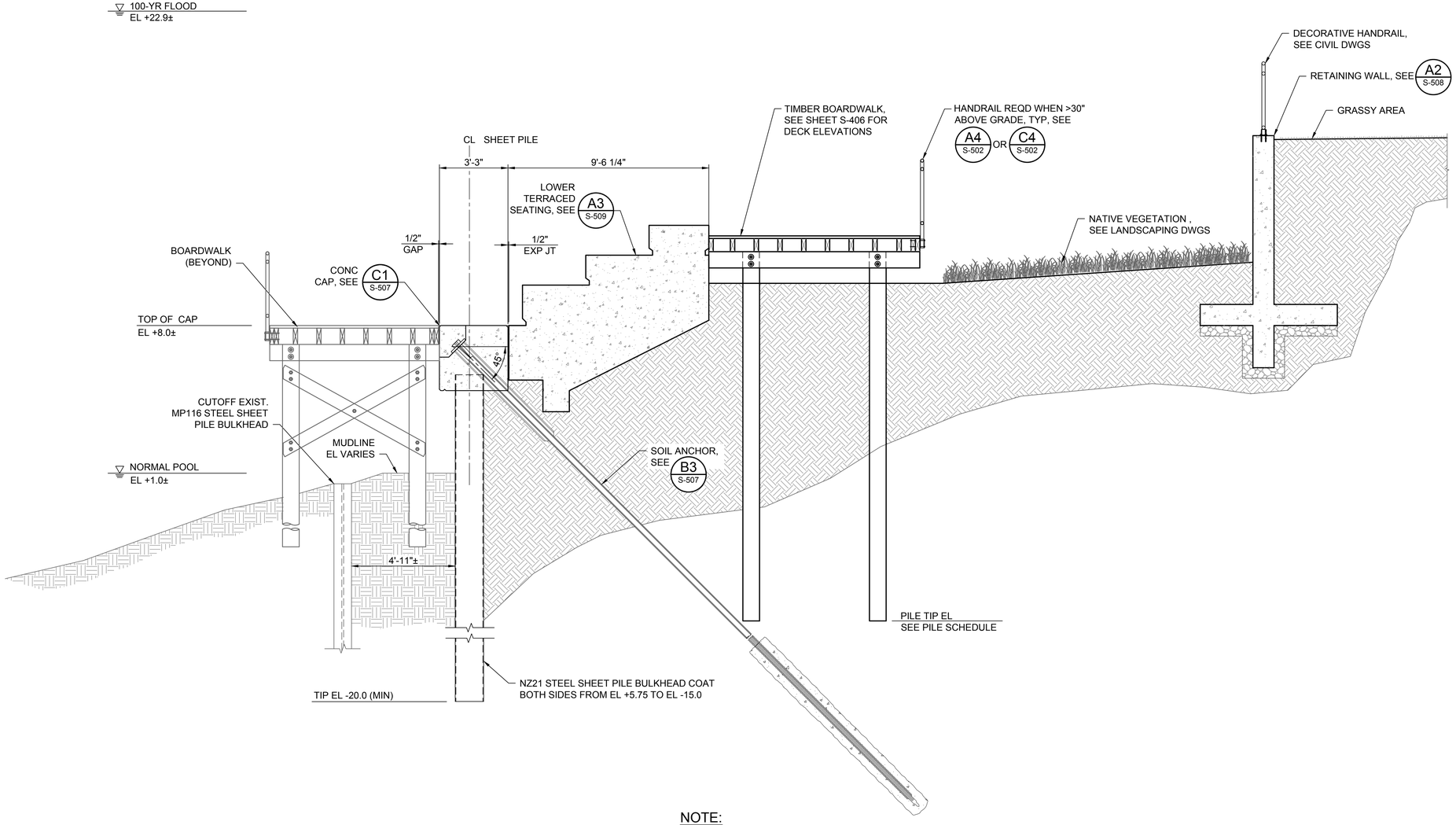
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Sheet Reference No.
S-305
INDEX: 77 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



NOTE:

REFER TO CIVIL DRAWINGS FOR TERRACED SEATING & TOP OF RETAINING WALL ELEVATIONS.

B1 / ST104 SECTION
SCALE: 3/8"=1'-0"

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 6 OF 6

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. P-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3748
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

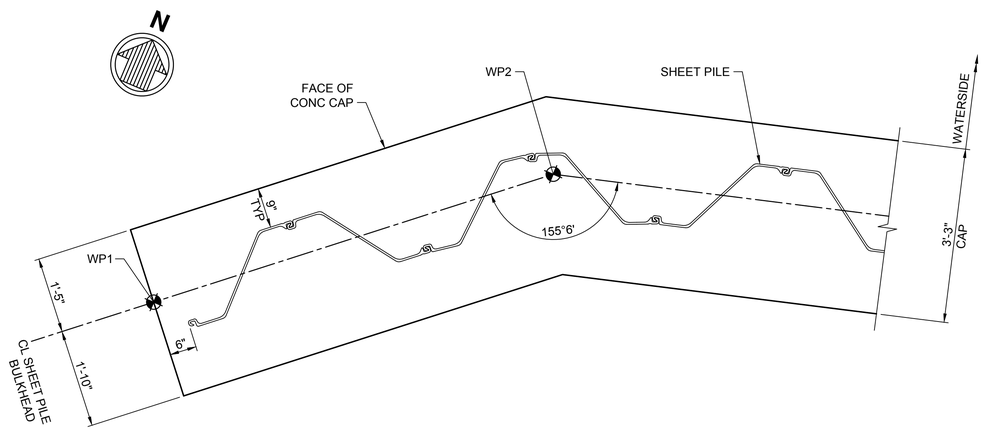
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Sheet Reference No.
S-306
INDEX: 78 OF 114

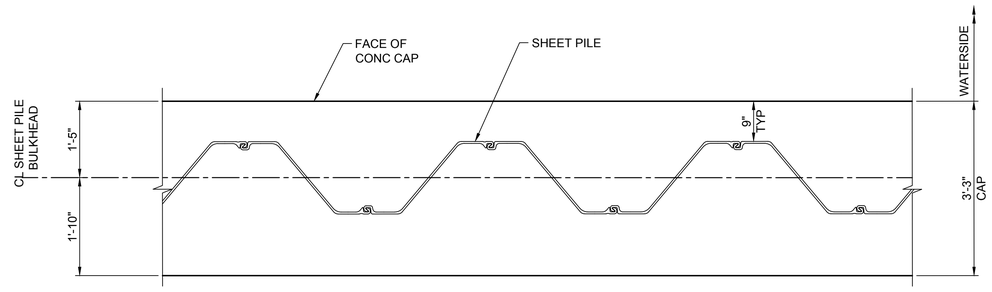
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

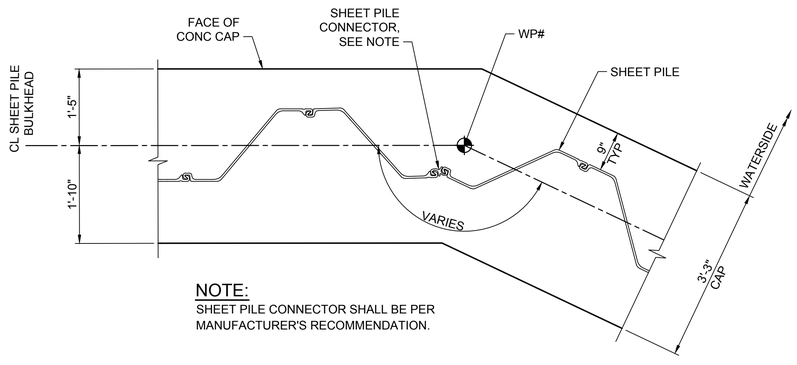
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D1 WEST END CONNECTION
SB101 SCALE: 3/4"=1'-0"

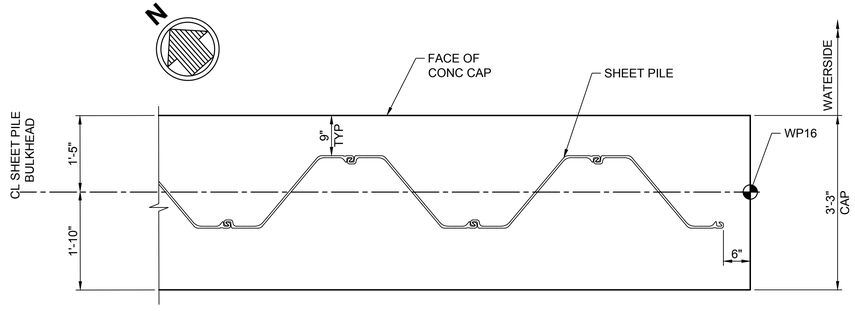


D3 TYPICAL SECTION
SB101 SCALE: 3/4"=1'-0"
SB102, SB103, SB104



NOTE:
SHEET PILE CONNECTOR SHALL BE PER MANUFACTURER'S RECOMMENDATION.

B1 BULKHEAD BEND
SB101 SCALE: 3/4"=1'-0"
SB102, SB103, SB104



B3 EAST END CONNECTION
SB104 SCALE: 3/4"=1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ENLARGED BULKHEAD CONNECTIONS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIA PRIELLO
MOFFATT & NICHOL

Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
USUTTY
ENGINEER
JEFFREY SWITZER
SEAL
2/28/2025

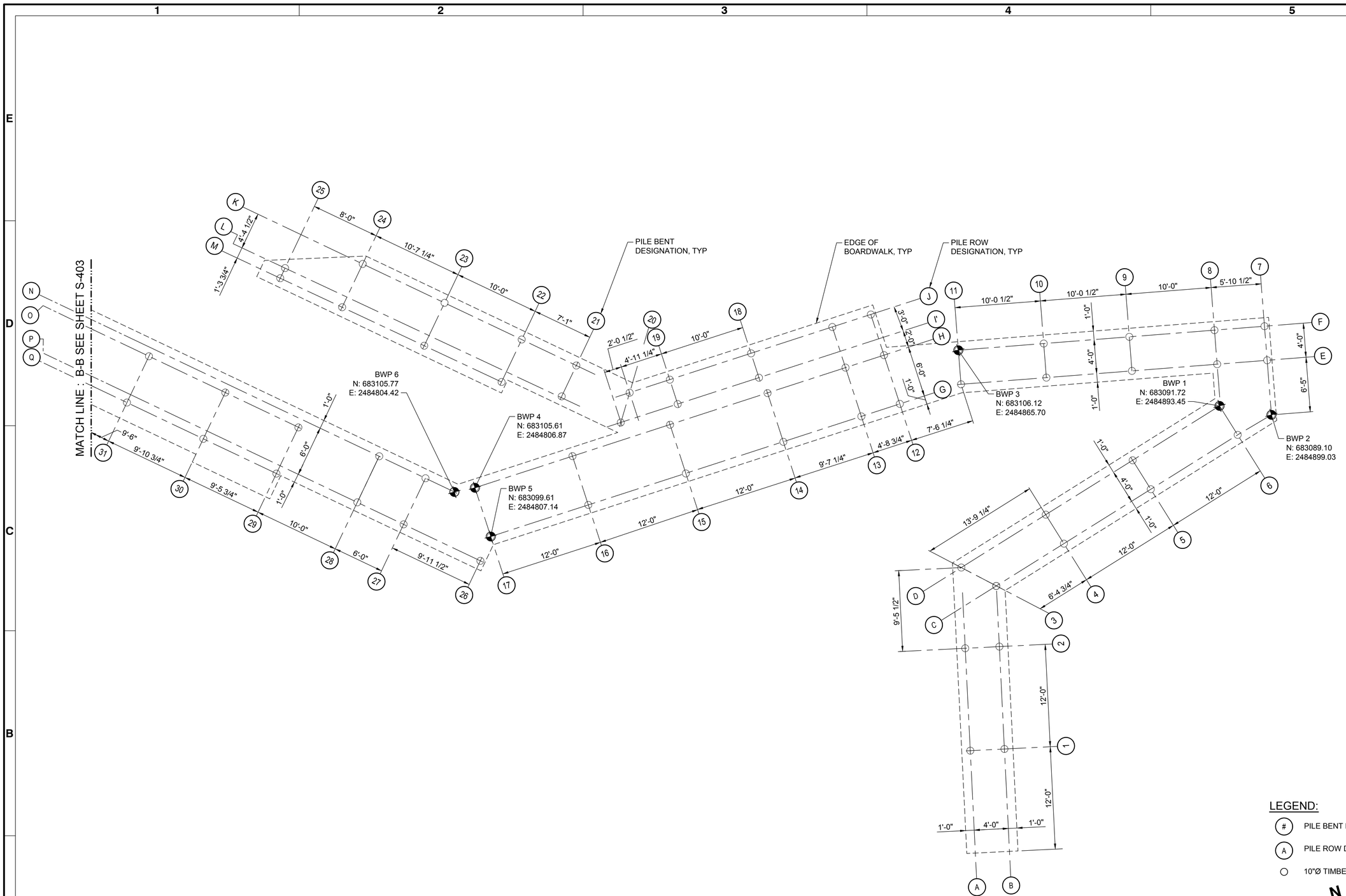
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Sheet Reference No.
S-401
INDEX: 79 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



LEGEND:

- (#) PILE BENT DESIGNATION
- (A) PILE ROW DESIGNATION
- ○ 10"Ø TIMBER PILE

N

8'-0" 0'-0" 4'-0" 8'-0"

SCALE: 3/16"=1'-0"

A1 / SB103 — ENLARGED PILE PLAN
SB104 — SCALE: 3/16"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED PILE PLAN
SHEET 1 OF 2

Designed by: J. SWYERS
Drawn by: VNM
Chkd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIA PIRELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050774 JEFFREY SWITZER REGISTERED
2/28/2025
SEAL

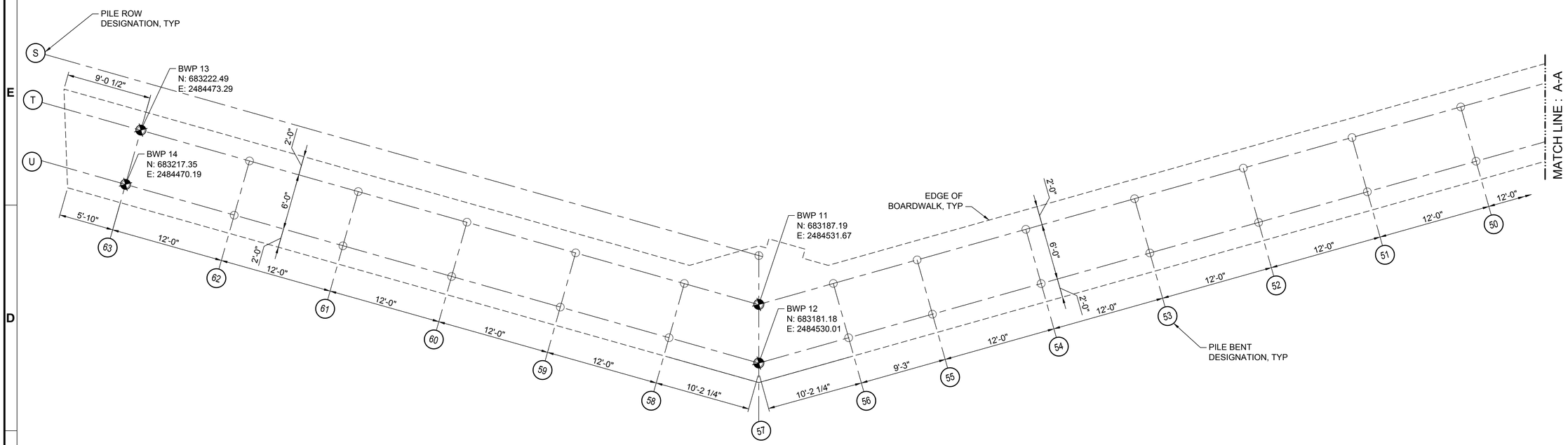
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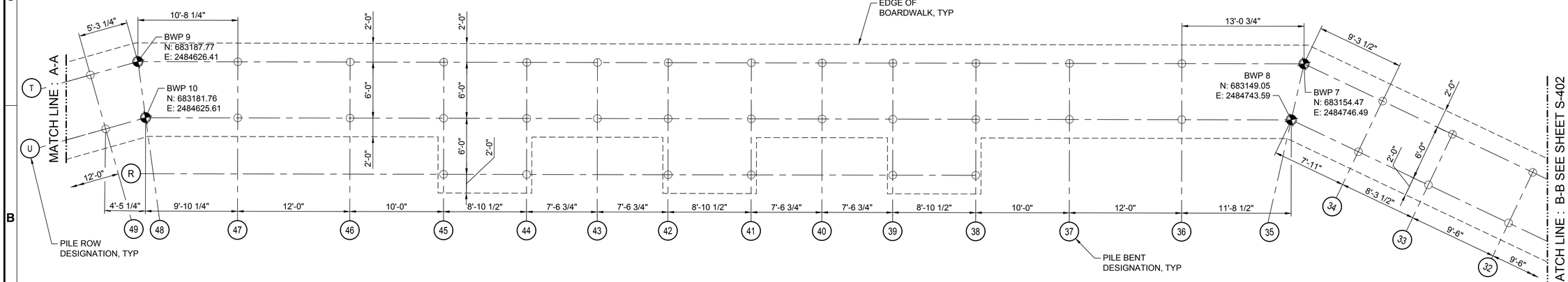
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S-402
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799





LEGEND:

- (#) PILE BENT DESIGNATION
- (A) PILE ROW DESIGNATION
- ○ 10"Ø TIMBER PILE

N

8'-0" 0'-0" 4'-0" 8'-0"

SCALE: 3/16"=1'-0"

A1 / SB103 — ENLARGED PILE PLAN
SCALE: 3/16"=1'-0"
SB104

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED PILE PLAN SHEET 2 OF 2

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIBETH BELLO
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 038779 ENGINEER JEFFREY SWITZER
2/28/2025

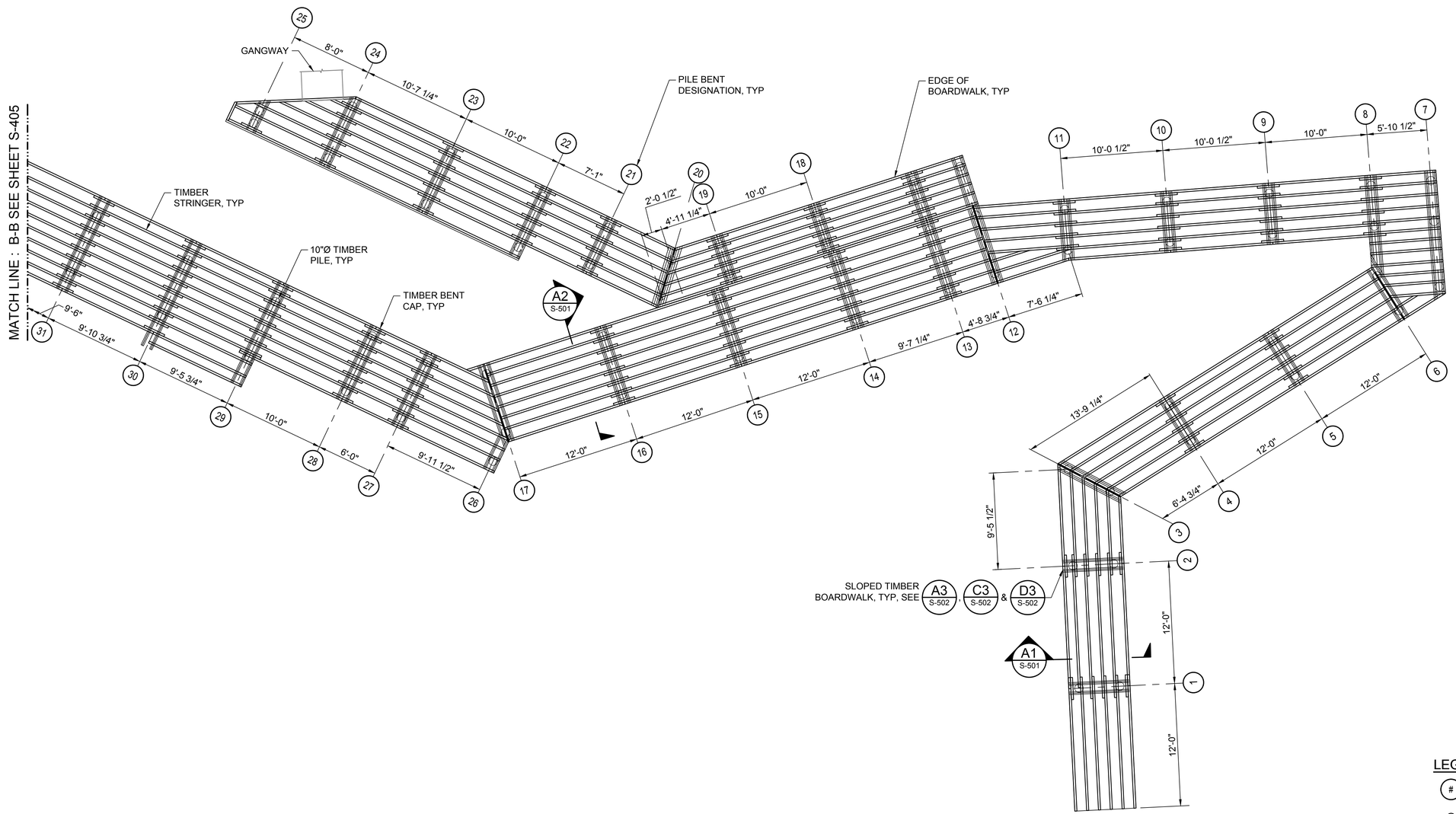
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Sheet Reference No.
S-403
INDEX: 81 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



A1 ST103 ENLARGED FRAMING PLAN
SCALE: 3/16"=1'-0"
ST104

LEGEND:

(#) PILE BENT DESIGNATION

○ 10"Ø TIMBER PILE

N

8'-0" 0'-0" 4'-0" 8'-0"
SCALE: 3/16"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED FRAMING PLAN SHEET 1 OF 2

Designed by: J. SWYERS
Drawn by: VNM
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO, MOFFATT & NICHOL
Date: 2025-02-07
Cad by: MAP
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105
moffatt & nichol

THE EAST GROUP
Engineering : Surveying : Technology
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

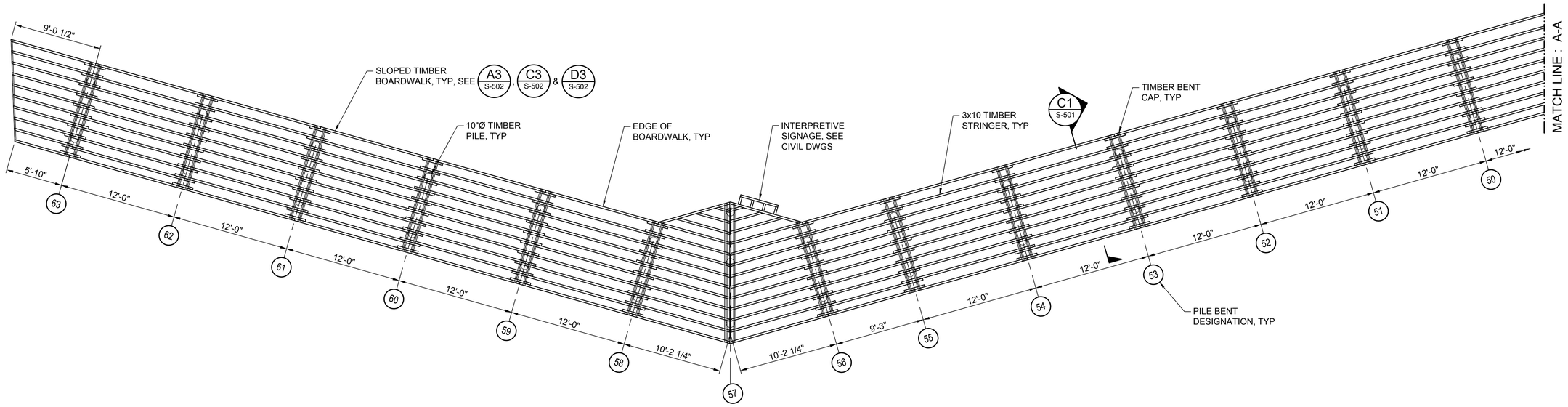
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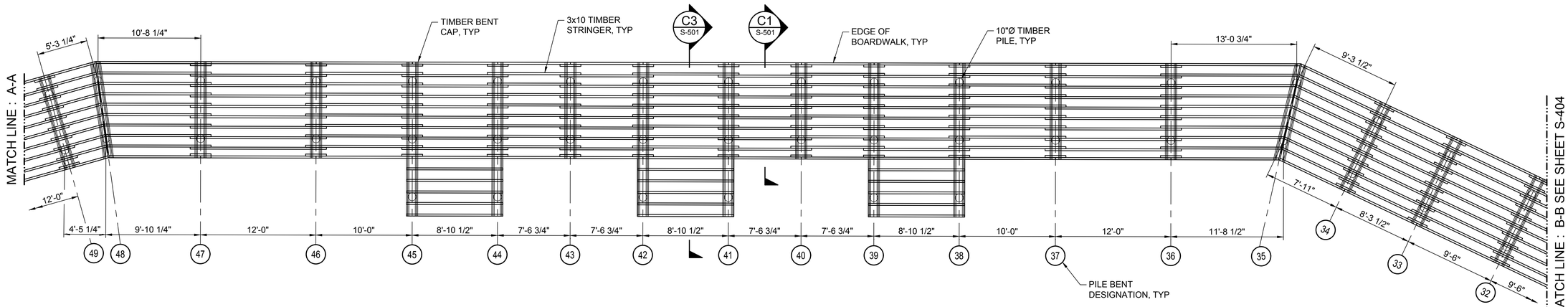
Sheet Reference No.
S-404
INDEX: 82 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799





A1 ST103 — ENLARGED FRAMING PLAN
SCALE: 3/16"=1'-0"
ST104, S-305, S-306

LEGEND:

(#) PILE BENT DESIGNATION

○ 10"Ø TIMBER PILE

N

8'-0" 0'-0" 4'-0" 8'-0"
SCALE: 3/16"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	MS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED FRAMING PLAN SHEET 2 OF 2

Date: 2025-02-07 | Rev. 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK MICHELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE LEVEL GROUP
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

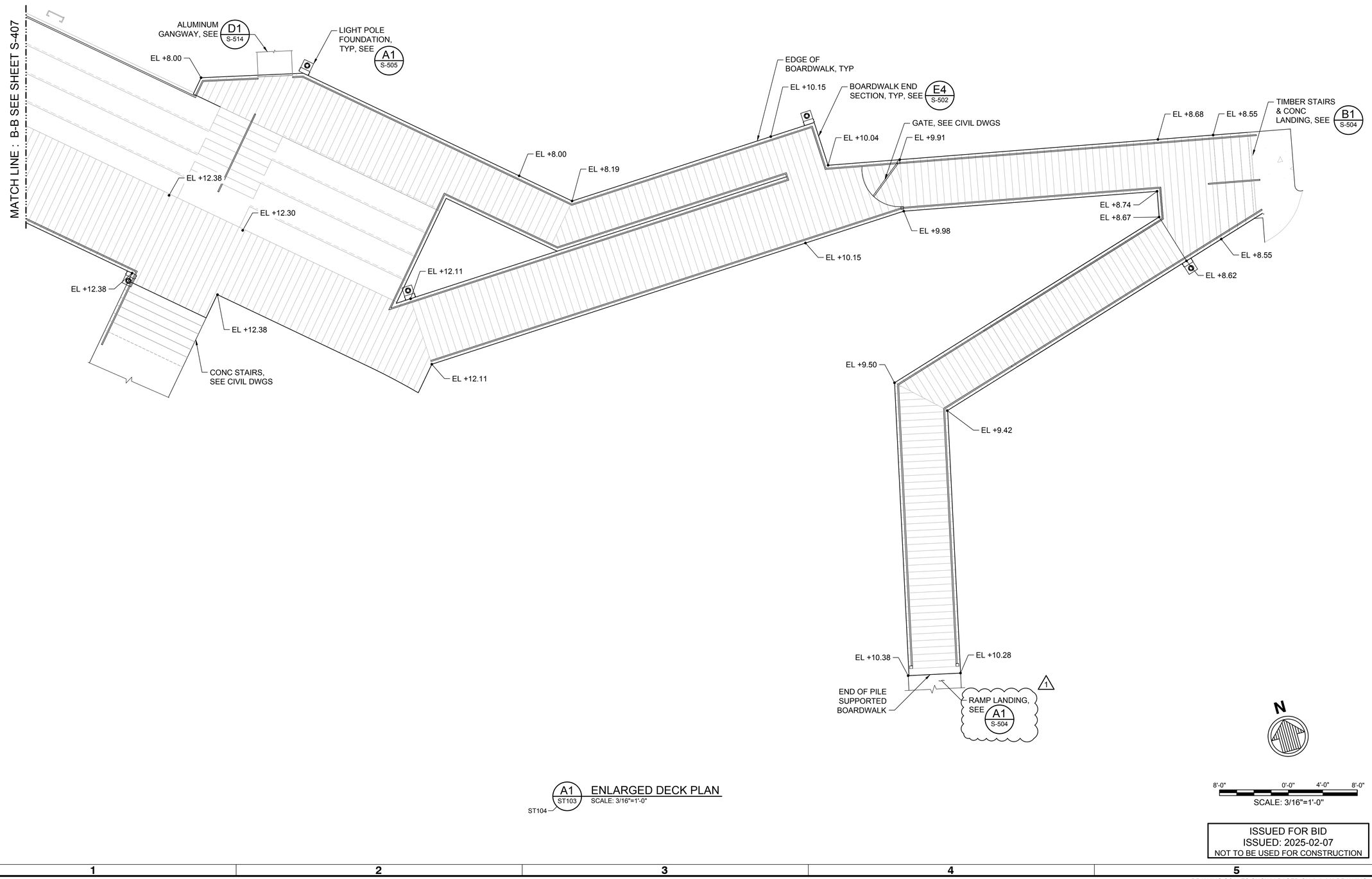
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Sheet Reference No.
S-405
INDEX: 83 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



A1 ST103 — ST104 ENLARGED DECK PLAN
SCALE: 3/16"=1'-0"

N

8'-0" 0'-0" 4'-0" 8'-0"
SCALE: 3/16"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JHS
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED DECK PLAN SHEET 1 OF 2

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIA PERELLO MOFFATT & NICHOL
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
USHYNA
ENGINEER
JEFFREY S
2/28/2025
SEAL

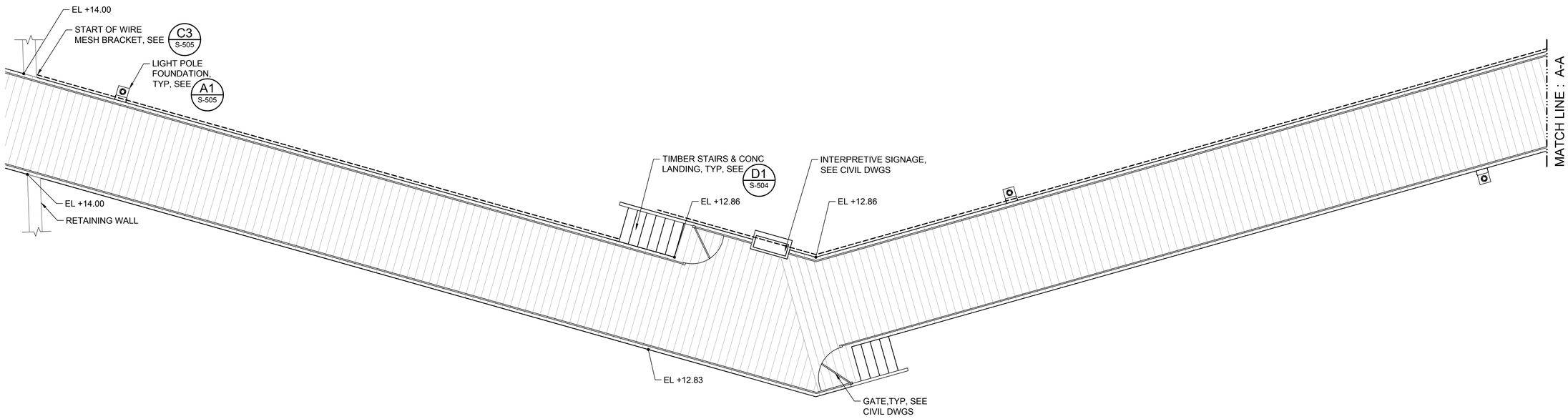
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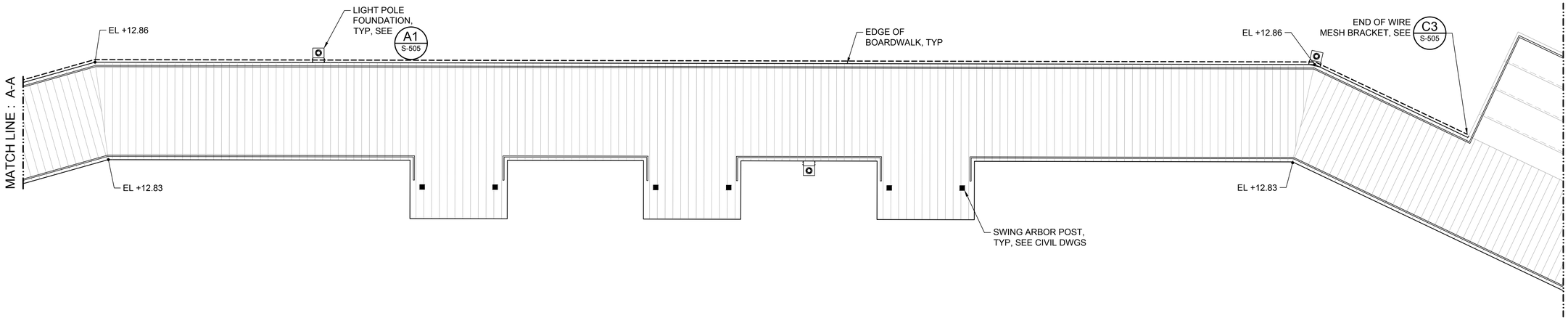
Sheet Reference No.
S-406
INDEX: 84 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799





A1 ST103 — ST104, S-304
ENLARGED DECK PLAN
SCALE: 3/16"=1'-0"

8'-0" 0'-0" 4'-0" 8'-0"
SCALE: 3/16"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED DECK PLAN
SHEET 2 OF 2

Date: 2025-02-07 Rev. 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)

Designed by: J. SWYERS
Drn by: VNM
Ckd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORTELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO: F-0105

THE EAST GROUP
Engineering Surveying Landscape Architecture Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC SURVEYING FIRM LICENSE NO. C-427
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

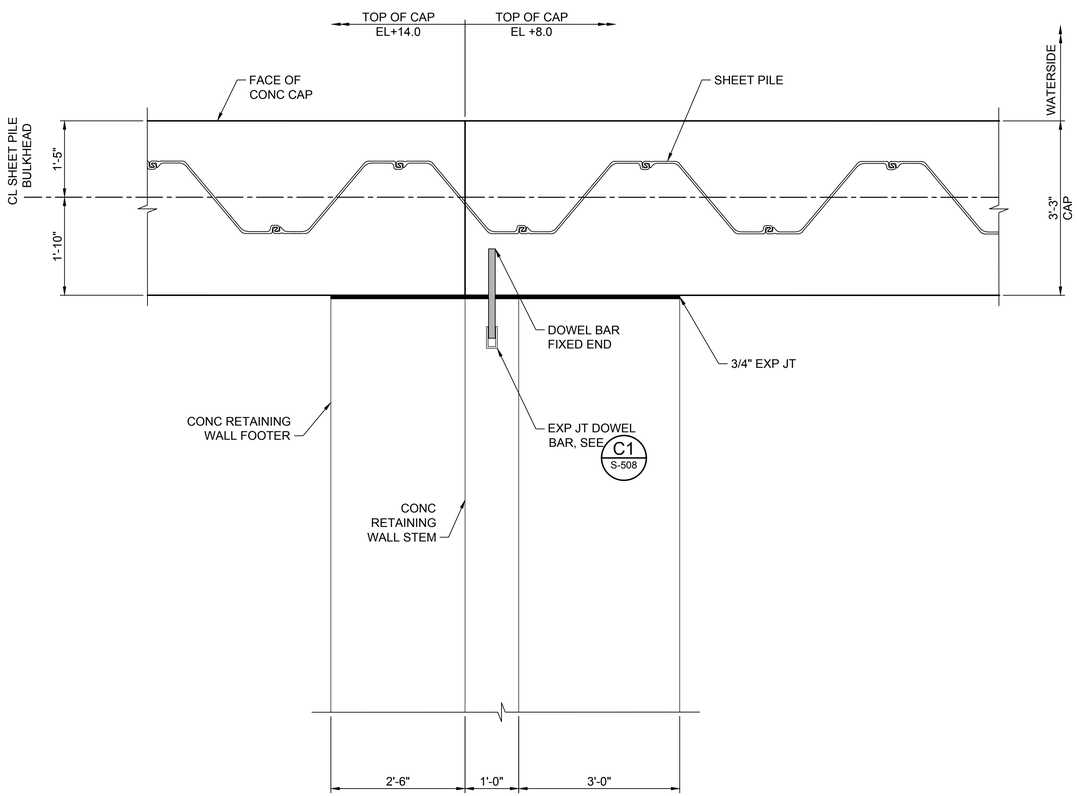
SEAL

Sheet Reference No.
S-407
INDEX: 85 OF 114

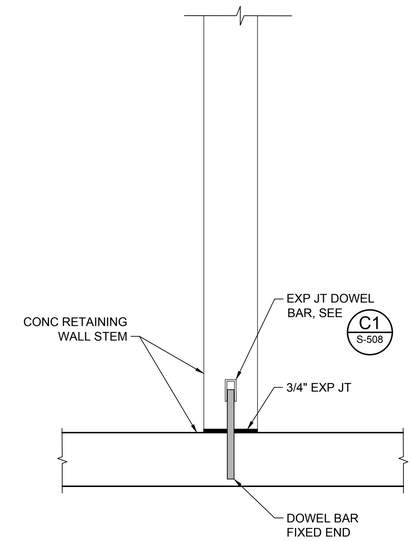
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

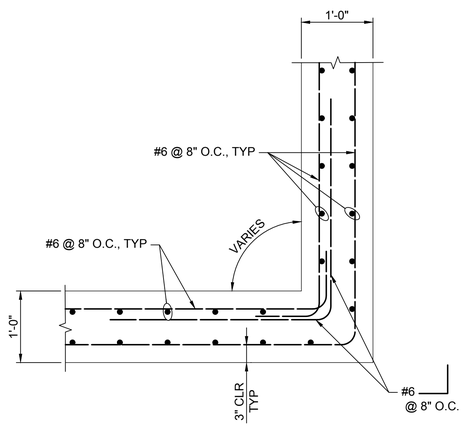
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A1 SB103 DETAIL - RETAINING WALL TO BULKHEAD CONNECTION
SCALE: 3/4"=1'-0"



C4 SB104 RETAINING WALL TO RETAINING WALL CONNECTION
SCALE: 3/4"=1'-0"



A4 SB103 DETAIL - RETAINING WALL CORNER
SCALE: 1"=1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BULKHEAD TO RETAINING WALL DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3748
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

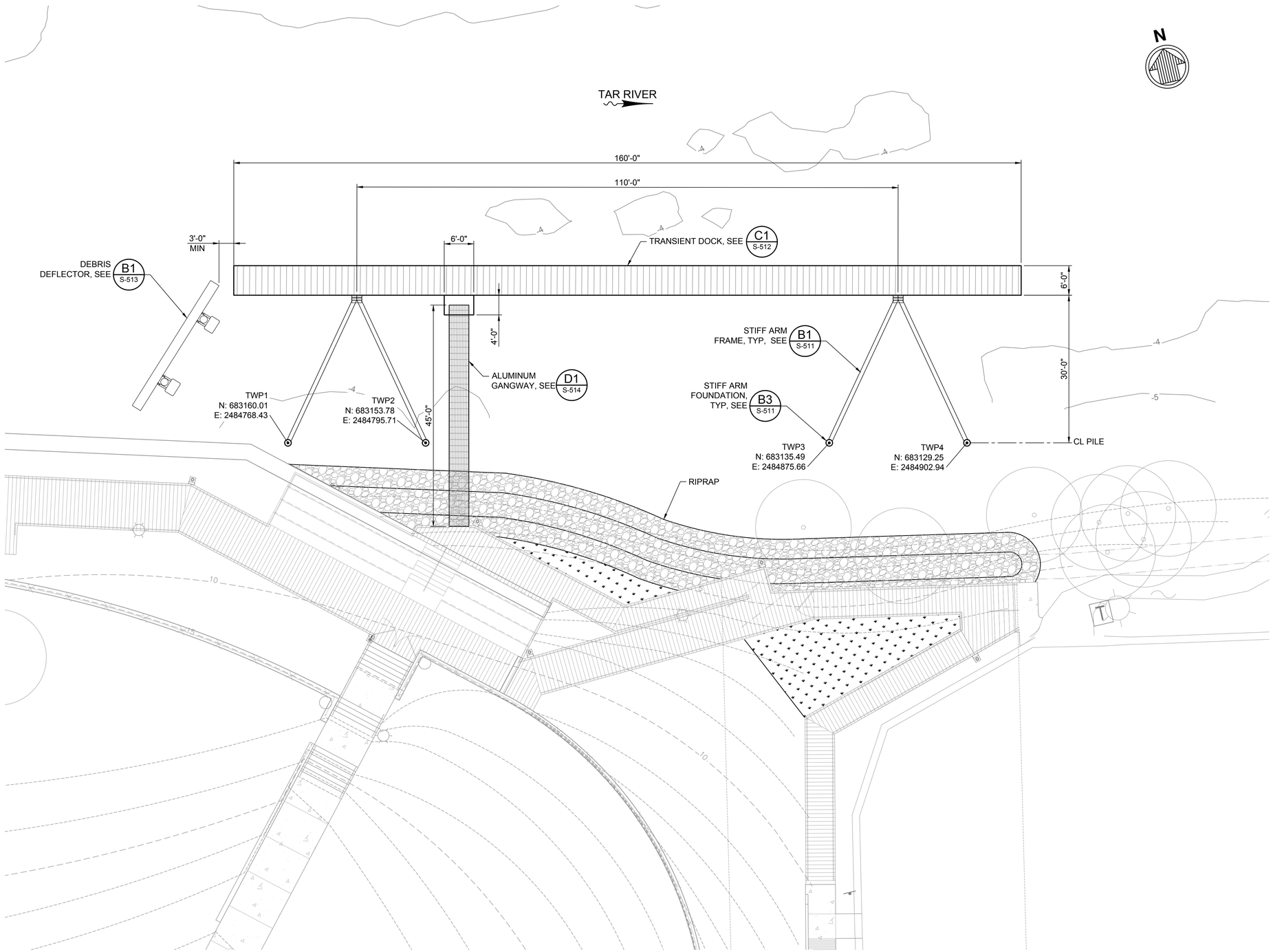
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER CASEY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
S-408
INDEX: 86 OF 114

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Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



A1 / G-101 ENLARGED TRANSIENT DOCK PLAN
SCALE: 1'-10'-0"

10' 0' 10' 20'
SCALE: 1"=10'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

FLOATING DOCK ENLARGED PLAN ADDITIVE BID #1

Designed by: J. SWYERS
Drawn by: VNM
Chd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

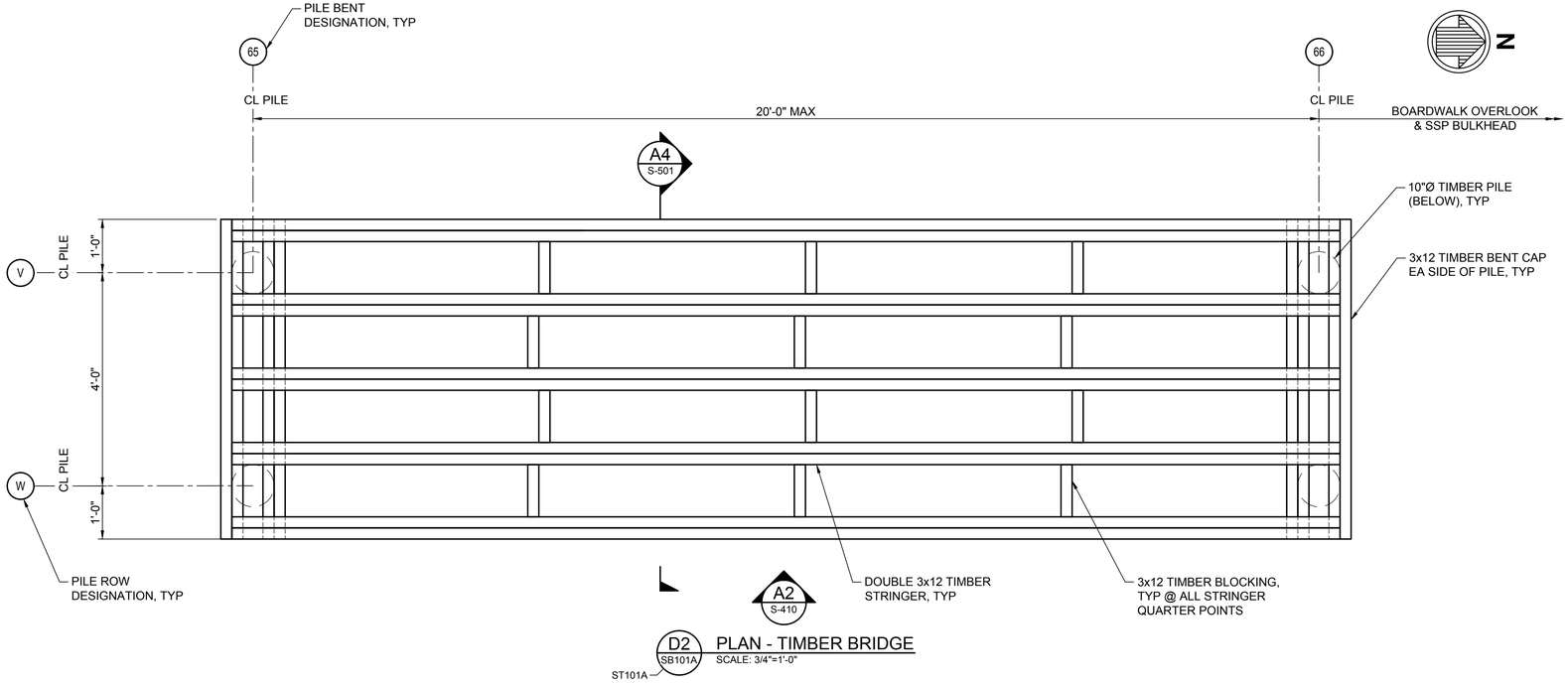
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SEAL

SEAL

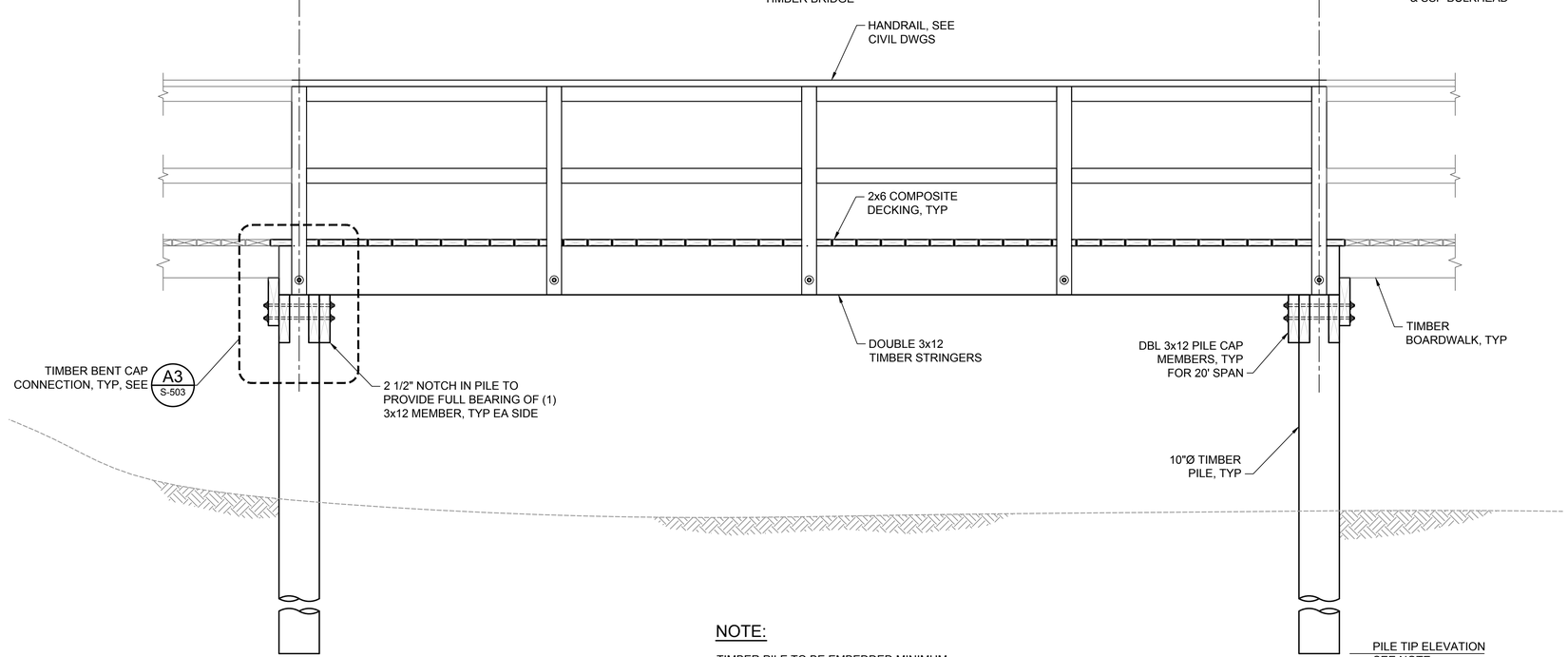
Sheet Reference No.
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D2 SB101A — PLAN - TIMBER BRIDGE
SCALE: 3/4"=1'-0"
ST101A



NOTE:

TIMBER PILE TO BE EMBEDDED MINIMUM OF 15-FT BELOW EXISTING GRADE.

A2 S-410 — ELEVATION - TIMBER BRIDGE
SCALE: 3/4"=1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER BRIDGE ENLARGED PLAN & ELEVATION ADDITIVE BID #3

Date: 2025-02-07 | Rev: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Designed by: J. SWYERS
Drawn by: VNM
Cked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering | Surveying | Environmental | Technology
334 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

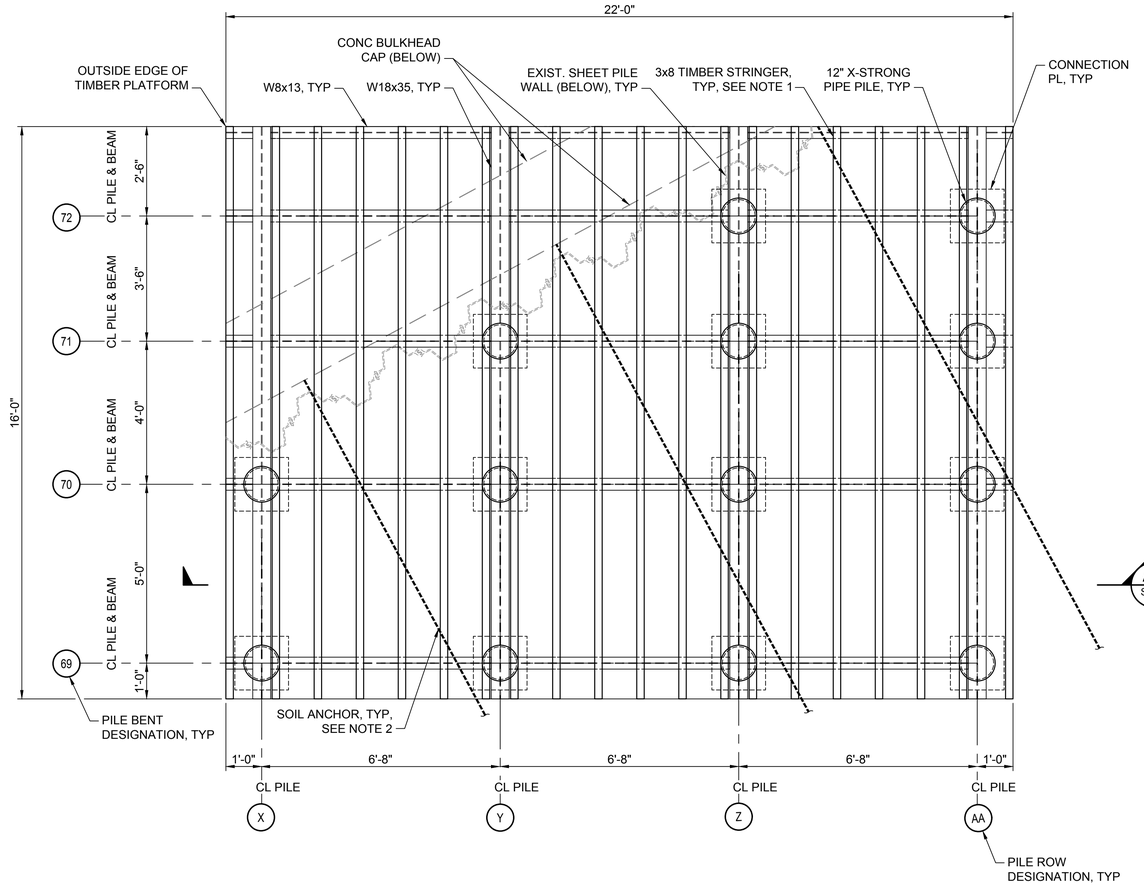
NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

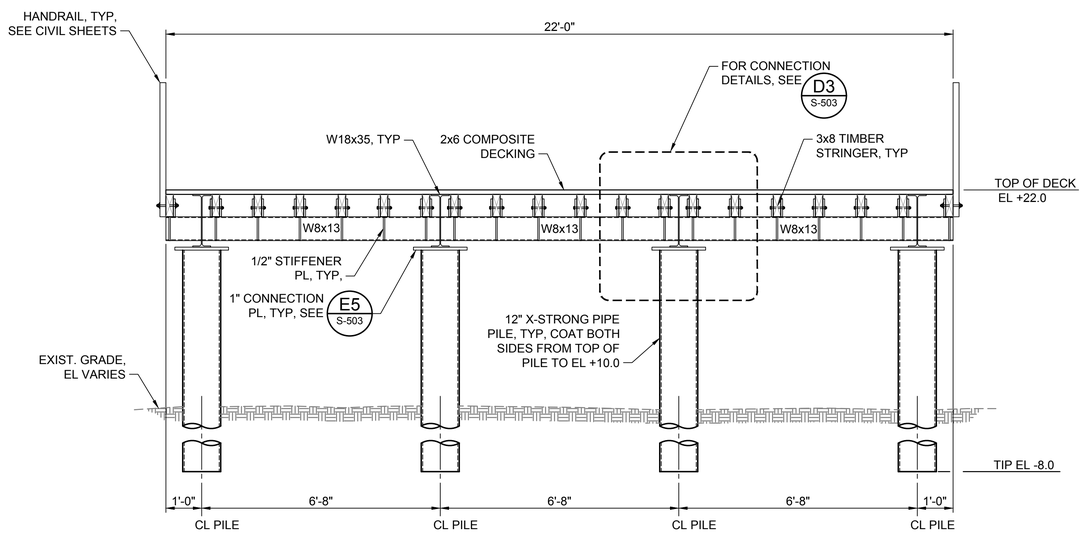
Sheet Reference No.
S-410
INDEX: 88 OF 114

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Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



C2 SB101A — FRAMING ENLARGEMENT PLAN - WEST BOARDWALK OVERLOOK
SCALE: 1/2"=1'-0"
ST101A



A2 S-411 — SECTION - WEST BOARDWALK OVERLOOK
SCALE: 1/2"=1'-0"

NOTES:

1. STRINGERS TO BE EVENLY SPACED BUT SPACED NO MORE THAN 16" O.C.
2. SOIL ANCHORS CAN BE SHIFTED A MAX OF 1' FOOT EITHER SIDE TO RESOLVE CONFLICT WITH PILES.

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

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

OVERLOOK ENLARGED PLAN & ELEVATION ADDITIVE BID #3

Designed by: J. SWYERS
Drawn by: VNM
Chkd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering Surveying Management Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

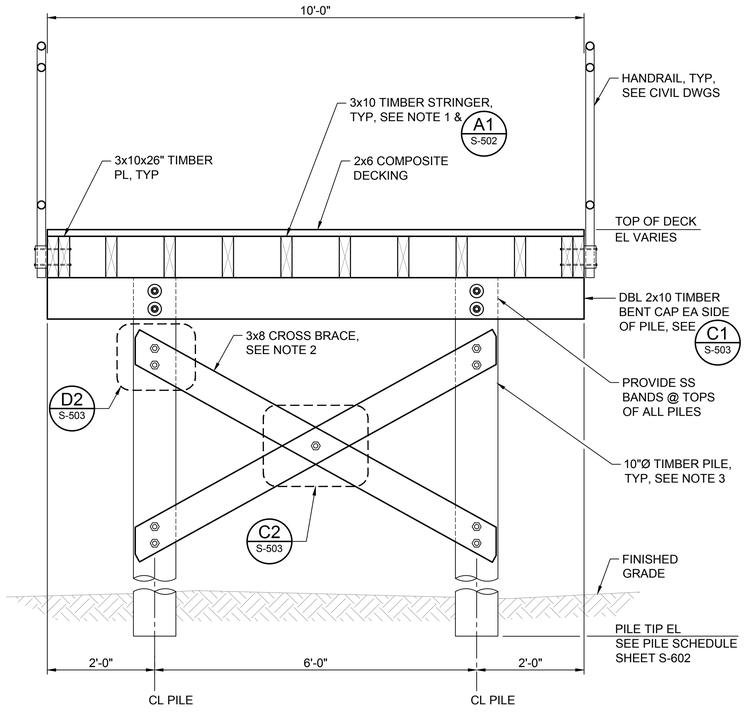
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Sheet Reference No.
S-411
INDEX: 89 OF 114

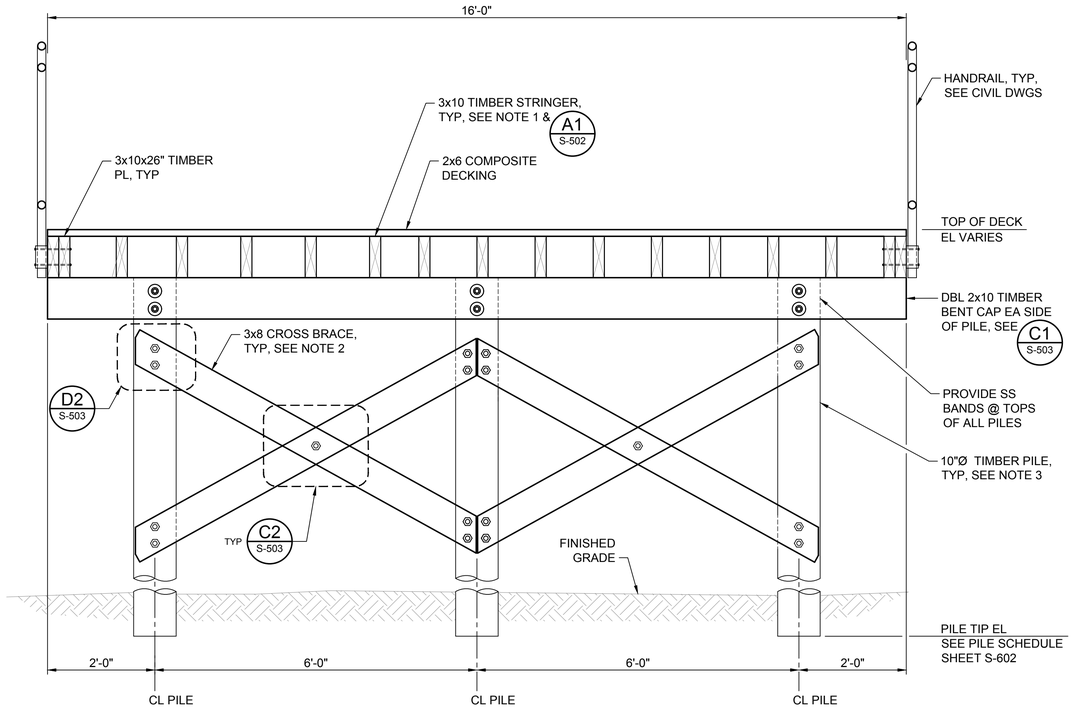
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



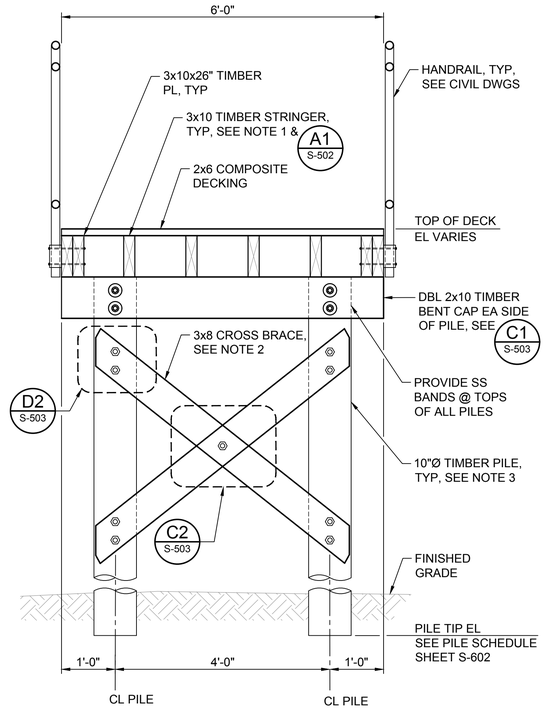
C1 ST103 SECTION - TYPICAL 10-FT WIDE BOARDWALK
SCALE: 3/4"=1'-0"
ST104, S-405



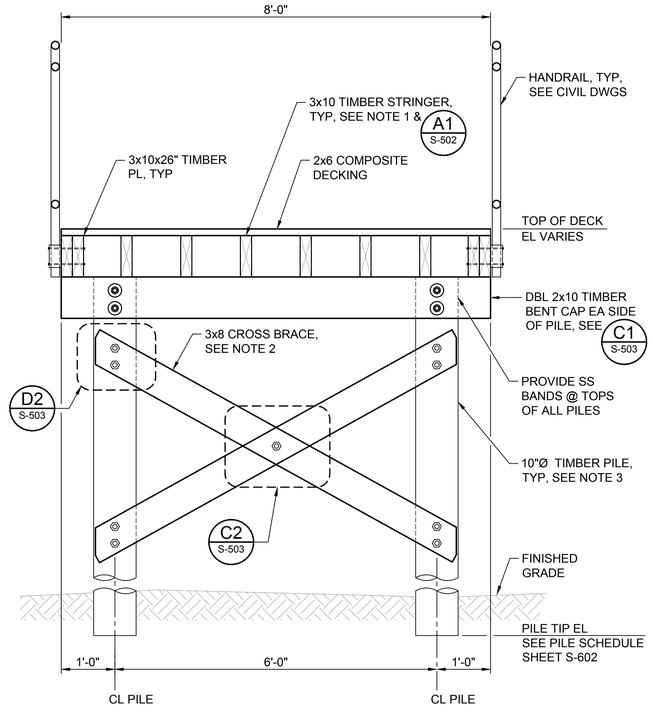
C3 SB103 SECTION - TYPICAL 16-FT WIDE BOARDWALK
SCALE: 3/4"=1'-0"
ST103, S-405

NOTES:

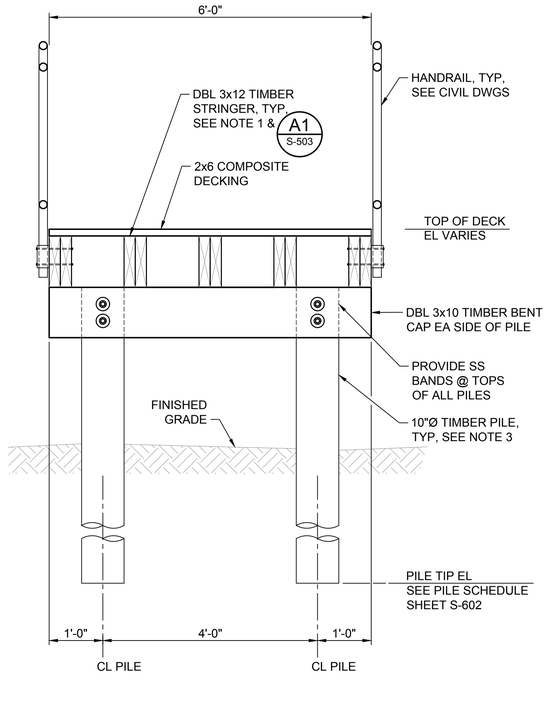
1. STRINGERS TO BE EVENLY SPACED BUT SPACED NO MORE THAN 16" O.C.
2. OMIT CROSS BRACING WHEN DISTANCE FROM TOP OF DECKING TO FINISHED GRADE IS 4'-6" OR LOWER.
3. PILE TIPS TO BE A MINIMUM OF 15- FEET BELOW EXISTING GRADE.
4. FOR TYPICAL COMPOSITE DECKING CONNECTION TO TIMBER STRINGERS, SEE DETAIL A3/S-504.



A1 SB104 SECTION - TYPICAL 6-FT WIDE BOARDWALK
SCALE: 3/4"=1'-0"
ST101A, ST104, S-404



A2 ST104 SECTION - TYPICAL 8-FT WIDE BOARDWALK
SCALE: 3/4"=1'-0"
S-404



A4 S-410 SECTION - TIMBER BRIDGE
SCALE: 3/4"=1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 1 OF 5

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PRELLO, MOFFATT & NICHOL
Date: 2025-02-07
Rev: 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY SWYERS 049977 2/28/2025
SEAL

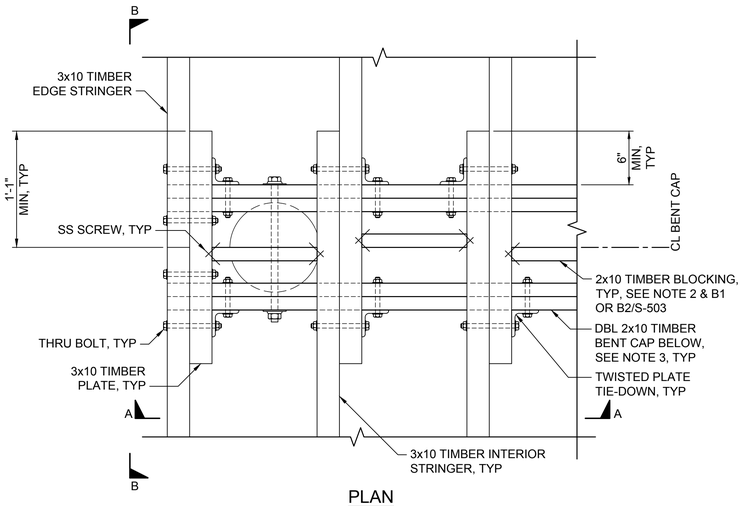
SEAL

Sheet Reference No.
S-501
INDEX: 90 OF 114

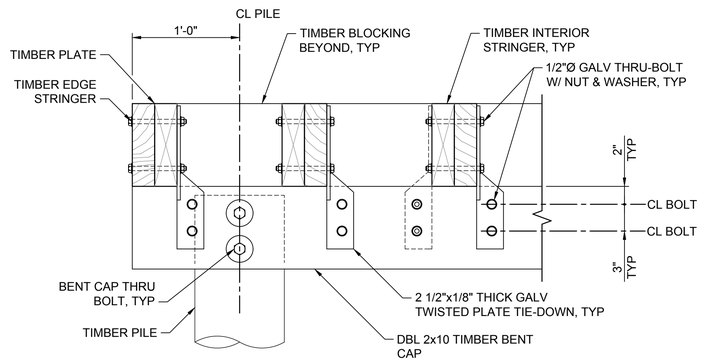
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

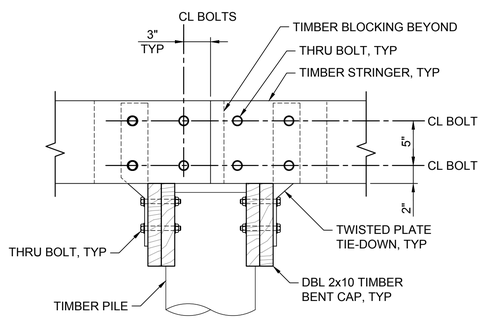
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PLAN



SECTION A-A

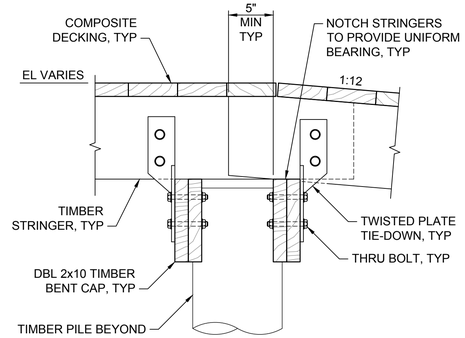


ELEVATION B-B

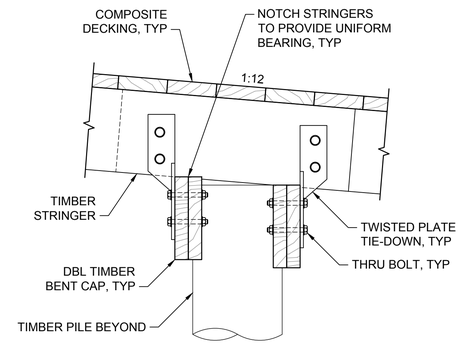
NOTES:

1. TIMBER DECKING NOT SHOWN FOR CLARITY.
2. PROVIDE 2x10 TIMBER BRIDGING AT PILE BENTS, MIDSPAN, FOR BOARDWALK AND QUARTER POINTS FOR BRIDGE. ANCHOR BRIDGING TO STRINGERS WITH (3) SS WOOD SCREWS EACH END.
3. TIMBER BENT CAP SIZE IS DBL 3x12 EACH SIDE FOR TIMBER BRIDGE.

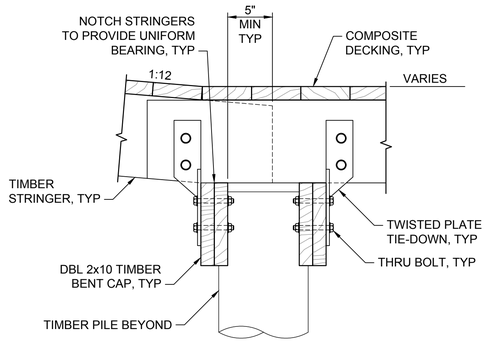
A1 / S-501 — DETAIL - STRINGER CONNECTION
SCALE: 1 1/2"=1'-0"



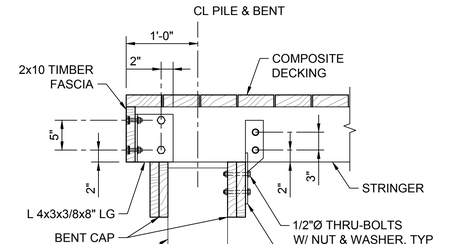
D3 / S-404 — DETAIL - ELEVATION TRANSITION - TOP
SCALE: 1 1/2"=1'-0"
S-405



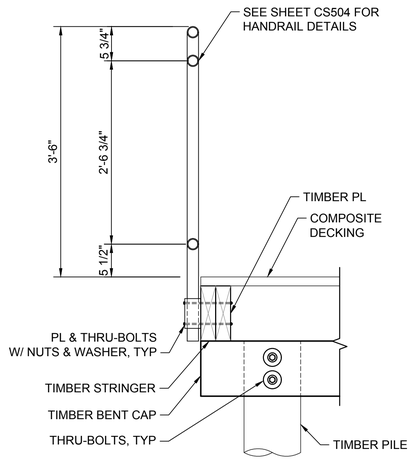
C3 / S-404 — DETAIL - ELEVATION TRANSITION - INTERMEDIATE
SCALE: 1 1/2"=1'-0"
S-405



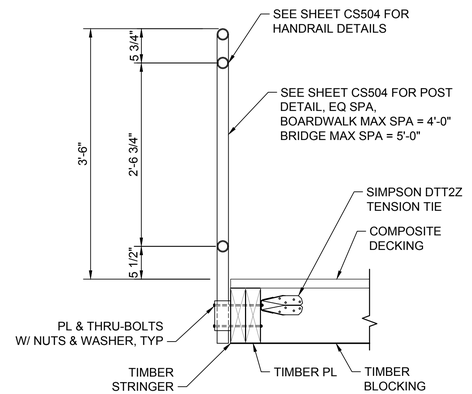
A3 / S-404 — DETAIL - ELEVATION TRANSITION - BOTTOM
SCALE: 1 1/2"=1'-0"
S-405



E4 / S-406 — END SECTION
SCALE: 1"=1'-0"



C4 / S-304 — HANDRAIL @ BENT
SCALE: 1"=1'-0"
S-305, S-306, S-501



A4 / S-304 — HANDRAIL ALONG SPAN
SCALE: 1"=1'-0"
S-305, S-306, S-501

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

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

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 2 OF 5

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Date: 2025-02-07
Rev. 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE WEST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050779 ENGINEER JEFFREY SWYERS 2/28/2025
SEAL

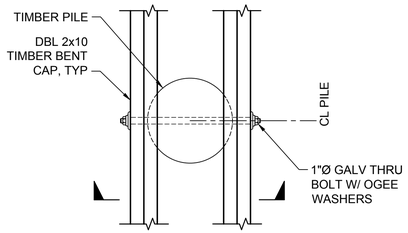
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Sheet Reference No.
S-502
INDEX: 91 OF 114

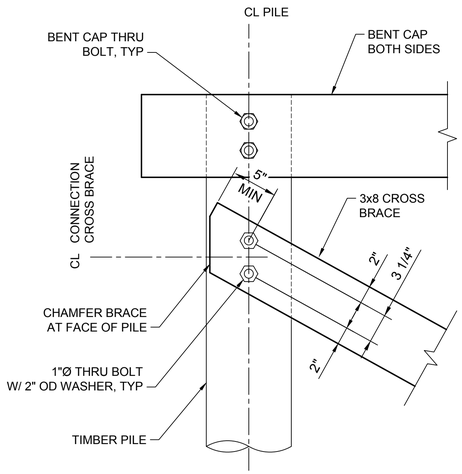
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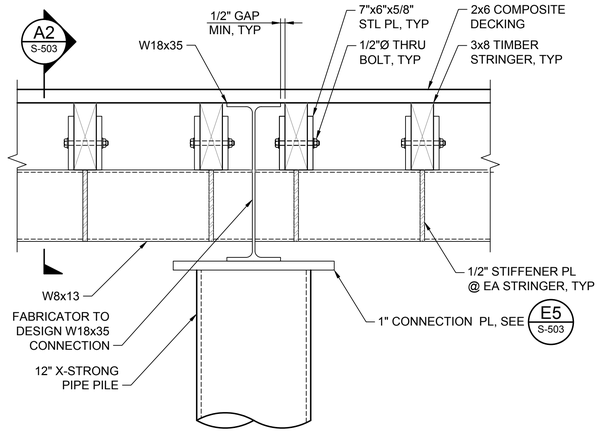
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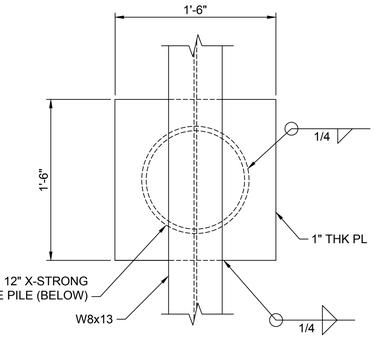
PLAN



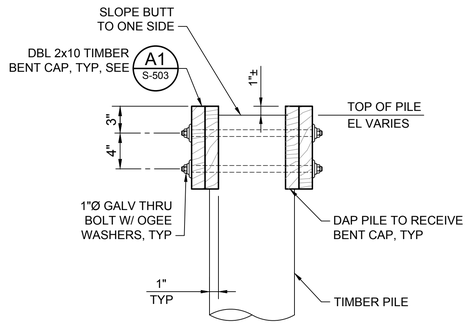
D2 S-501 CROSS BRACE CONNECTION
SCALE: 1 1/2"=1'-0"



D3 S-411 CONNECTION
SCALE: 1 1/2"-1'-0"

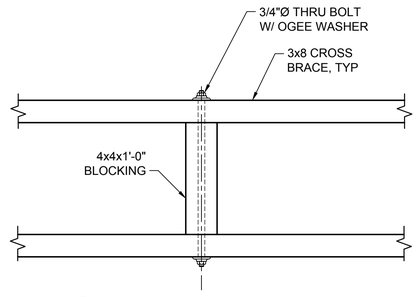


E5 S-411 CONNECTION PLATE
SCALE: 1 1/2"-1'-0"
S-503

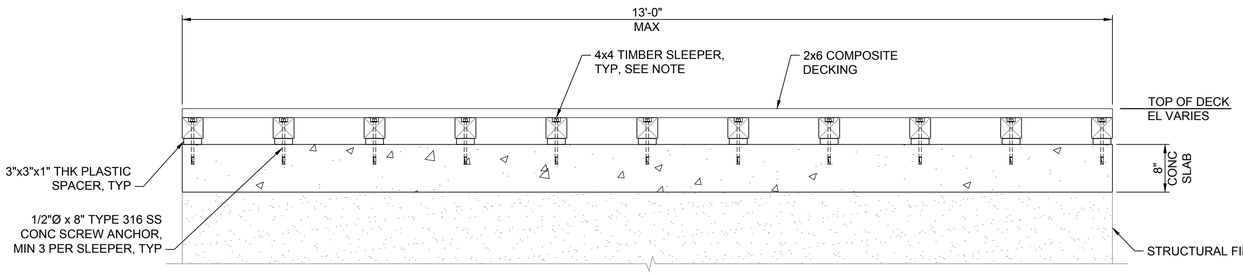


SECTION

C1 S-501 BENT CAP CONNECTION
SCALE: 1 1/2"=1'-0"

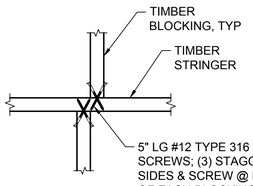


C2 S-501 CROSS BRACE BLOCKING
SCALE: 1 1/2"=1'-0"

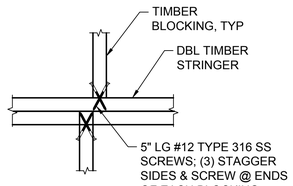


NOTE:
SLEEPERS TO BE EVENLY SPACED
BUT SPACED NO MORE THAN 16" O.C.

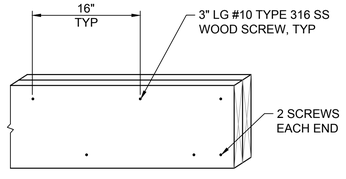
C3 S-503 BOARDWALK TO CENTRAL PLAZA CONNECTION
SCALE: 1"=1'-0"



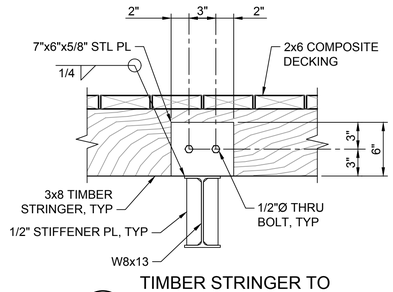
B1 S-502 BLOCKING
SCALE: 1 1/2"=1'-0"



B2 S-502 BLOCKING
SCALE: 1 1/2"=1'-0"

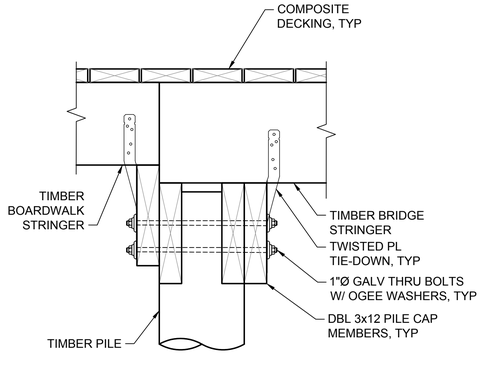


A1 S-501 DOUBLE TIMBER ASSEMBLY
SCALE: NTS
S-503

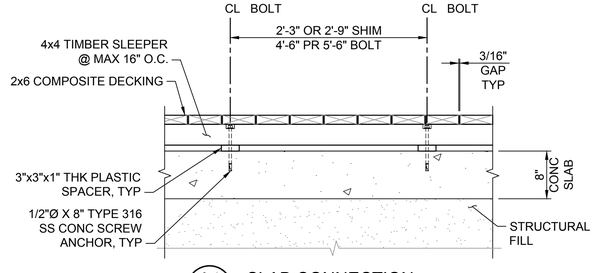


TIMBER STRINGER TO
STL BEAM CONNECTION

A2 S-503
SCALE: 1 1/2"-1'-0"



A3 S-410 TIMBER BENT CAP CONNECTION
SCALE: 1 1/2"=1'-0"



A4 S-503 SLAB CONNECTION
SCALE: 1"=1'-0"

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

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

ISSUED FOR BID
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON
& ESPLANADE PROJECT

TIMBER WALKWAY DETAILS
SHEET 3 OF 5

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO MOFFATT & NICHOL
Date: 2025-02-07
Rev. 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
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RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
049779
ENGINEER
JEFFREY SWYERS
2/28/2025
SEAL

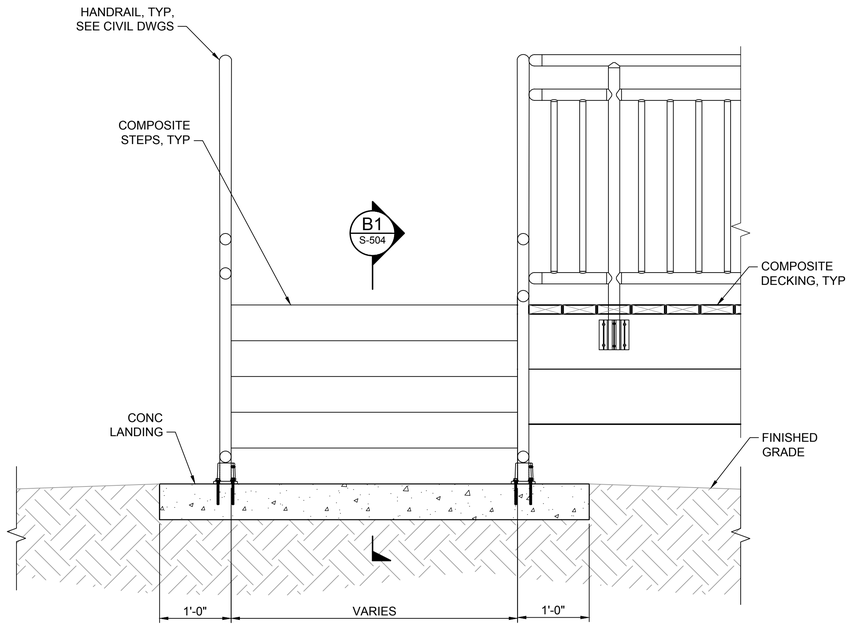
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Sheet
Reference No.
S-503
INDEX: 92 OF 114

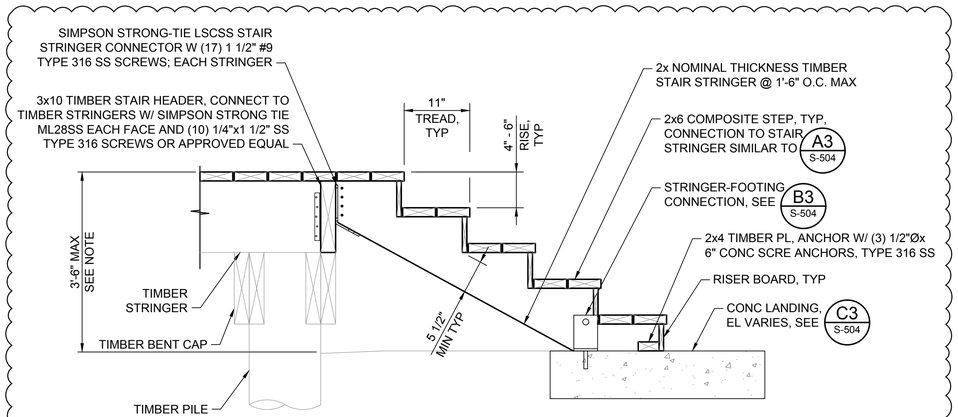
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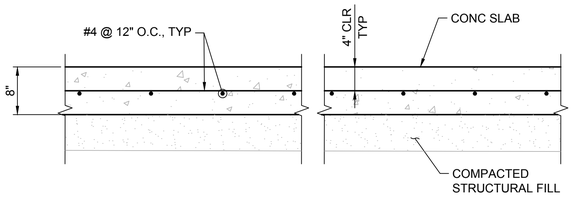


D1 ST103 ELEVATION - TIMBER STAIRS
SCALE: 1"=1'-0"

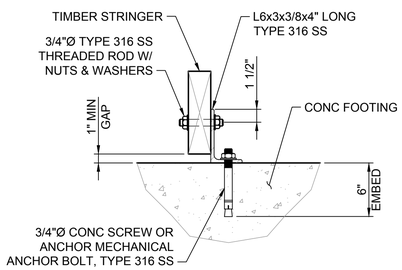


NOTE:
ADJUST RISER HEIGHT UP TO 6" MAXIMUM HEIGHT AND ADD OR SUBTRACT RISERS TO REACH REQUIRED OVERALL HEIGHT. ALL RISERS SHALL BE SAME HEIGHT.

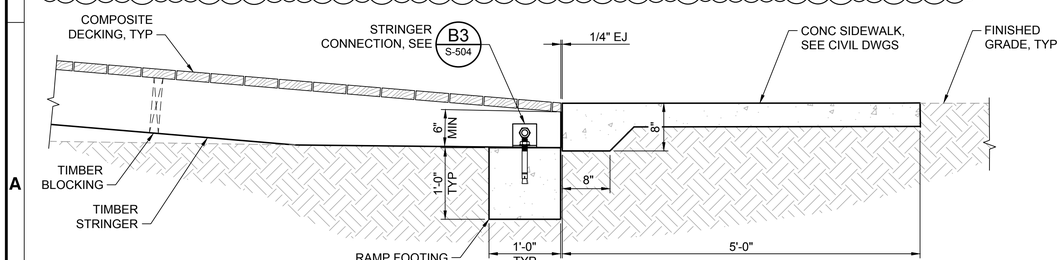
B1 S-504 DETAIL - TIMBER STAIRS
SCALE: 1"=1'-0"



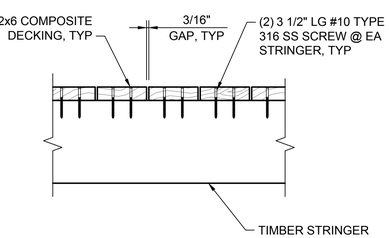
C3 S-504 CONCRETE LANDING
SCALE: 1"=1'-0"



B3 S-303 DETAIL
SCALE: 1 1/2"=1'-0"
S-504



1 A1 S-406 DETAIL - RAMP
SCALE: 1"=1'-0"



A3 S-501 SECTION
SCALE: 1 1/2"=1'-0"
S-504

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

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

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ISSUED: 2025-02-07
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NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JHS
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS
SHEET 4 OF 5

Date: 2025-02-07 | Rev. 1
MAN Project No. 221315-02
Drawing code:
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Plot scale: 1:1 (D SHEET)

Designed by: J. SWYERS
Drawn by: VNM
Ckld by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP
Engineering Surveying
NC ENGINEERING FIRM LICENSE NO. C-0205
NC SURVEYING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

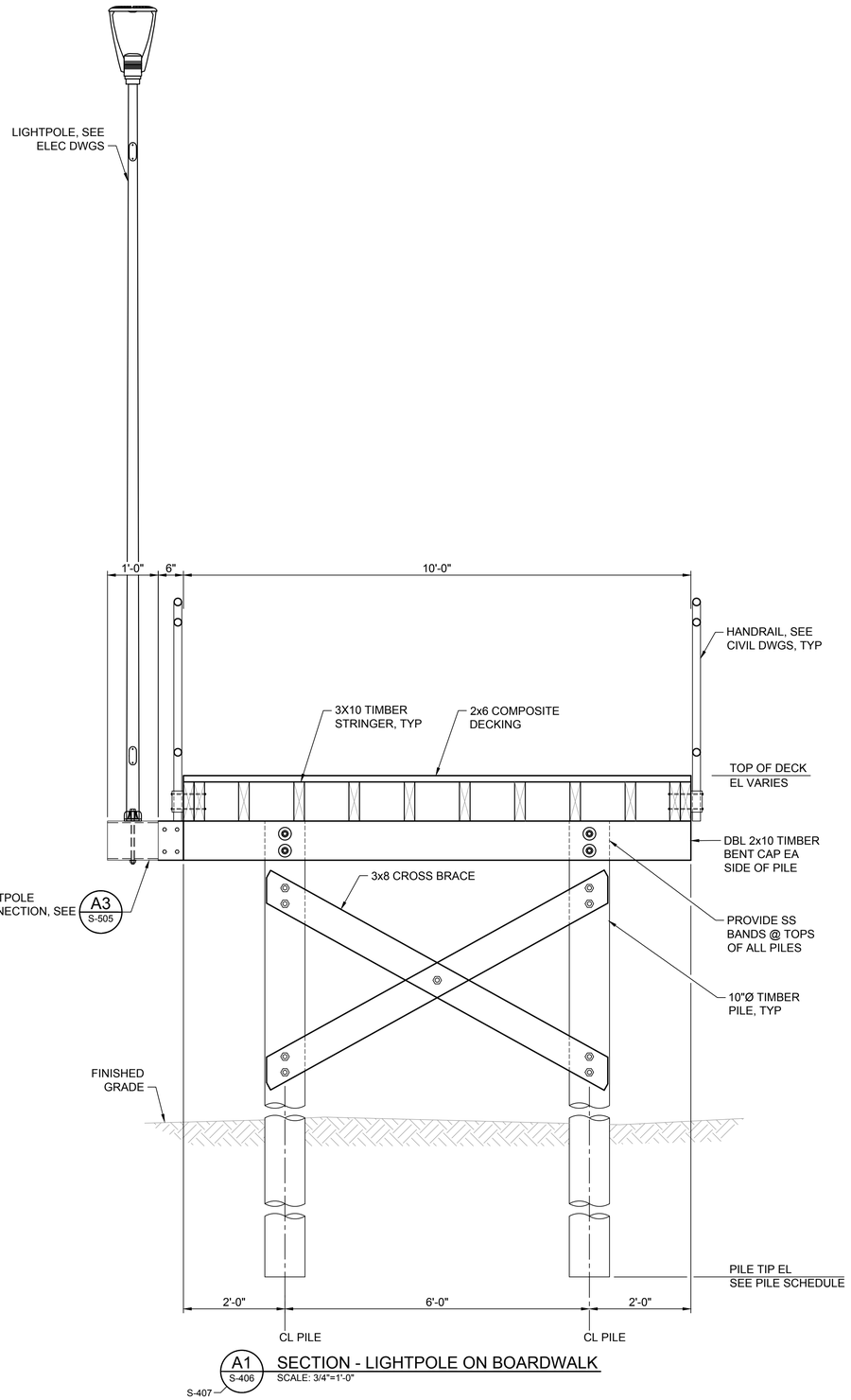
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Sheet Reference No.
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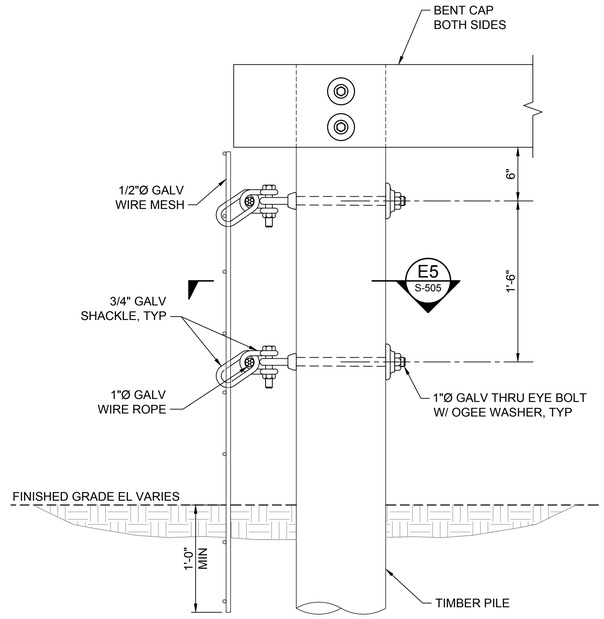
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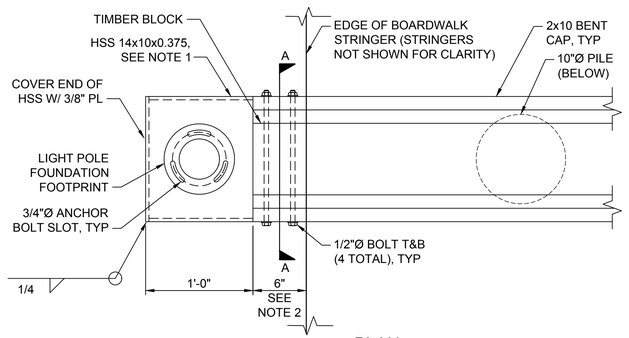
A1 S-406 **SECTION - LIGHTPOLE ON BOARDWALK**
SCALE: 3/4"=1'-0"

S-407

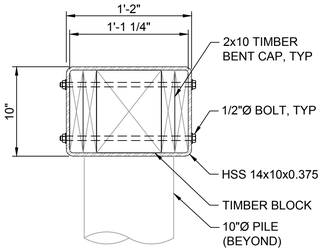


NOTE:
FOR SPLICING WIRE ROPE & WIRE MESH, SEE DETAIL D5/S-505.

C3 S-505 **DETAIL - BRACKET**
SCALE: 1 1/2"=1'-0"



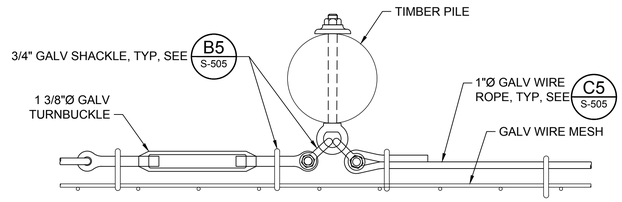
PLAN



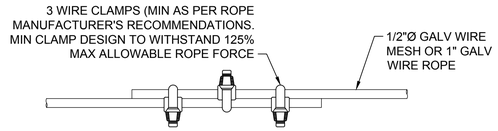
SECTION A-A

NOTES:
1. SLIDE HSS 14x10x0.375 OVER BENT CAP EXTENSION. OUTER BENT CAP TO BE TRIMMED TO FIT HSS.
2. EXTEND CAP BEAN 6" BEYOND EDGE OF STRINGERS.

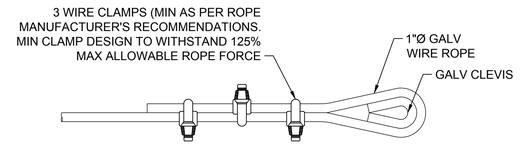
A3 S-505 **DETAIL - LIGHT POLE**
SCALE: 1 1/2"=1'-0"



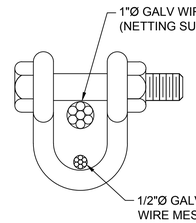
E5 S-505 **TENSION BRACKET**
SCALE: NTS



D5 S-505 **DETAIL - SPLICE**
SCALE: NTS



C5 S-505 **DETAIL - END CONNECTION**
SCALE: NTS



B5 S-505 **DETAIL - SHACKLE**
SCALE: NTS

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

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

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 5 OF 5

Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO MOFFATT & NICHOL

Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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919-781-4626
NC FIRM LICENSE NO: F-0105

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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0295
NC SURVEYING FIRM LICENSE NO. C-427
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

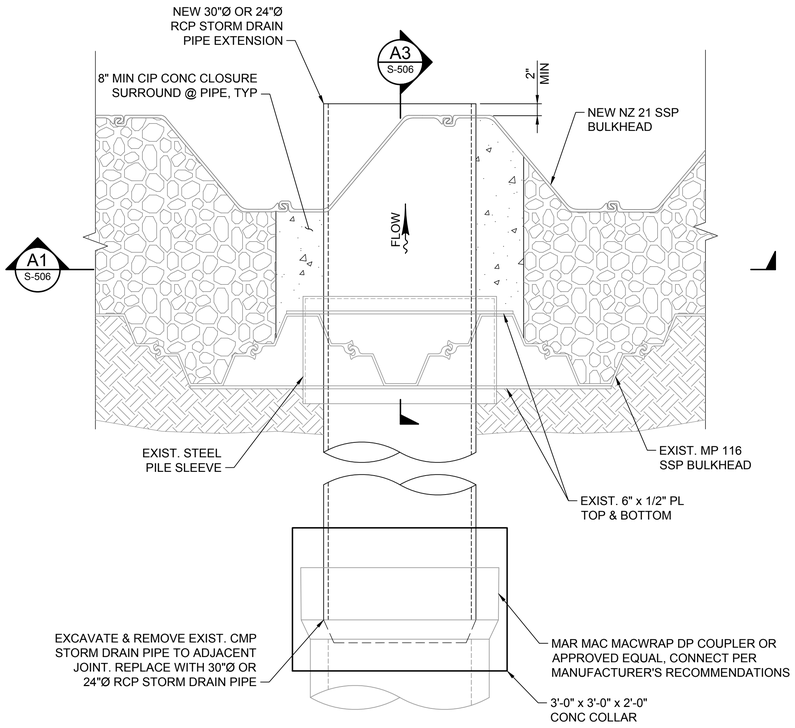
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Sheet Reference No.
S-505
INDEX: 94 OF 114

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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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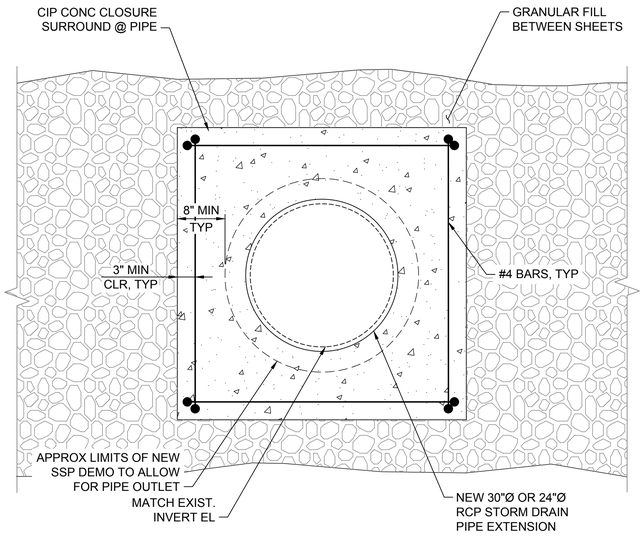


C1 SB101 — SCHEMATIC STORM DRAIN PIPE EXTENSION
SCALE: 1"=1'-0"

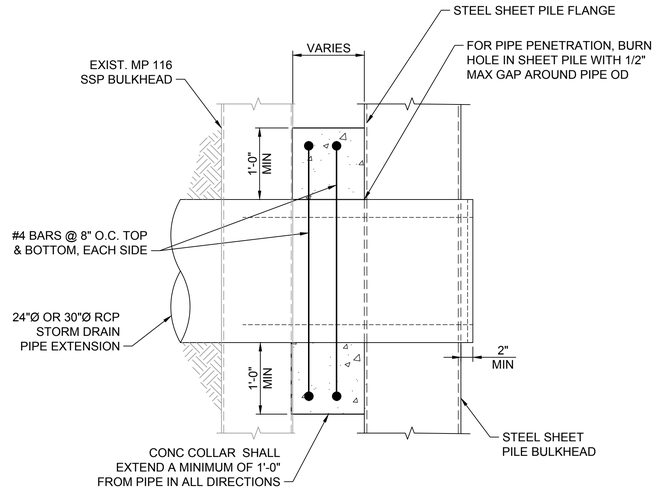
SB102, SB103

NOTES:

1. THE APPROXIMATE LOCATION OF THE EXISTING STORM DRAINS ARE SHOWN ON SHEETS V-101, V-102, & V-103 AND IS BASED ON THE AS-BUILT DRAWINGS DATED 08/11/1967. CONTRACTOR TO FIELD VERIFY THE LOCATION AND INVERT ELEVATION OF THE RCP STORM DRAIN.
2. SIZE NEW PIPE TO MATCH EXISTING. NEW PIPE SHALL CONFORM TO ASTM C 76, CLASS III. LAY NEW PIPE TO PROVIDE POSITIVE DRAINAGE TOWARD NEW BULKHEAD.
3. REPAIR ANY DAMAGE TO BULKHEAD COATING SYSTEM AS APPLICABLE IN ACCORDANCE WITH THE SPECIFICATIONS.
4. COORDINATE INSTALLATION OF NEW PIPE EXTENSION WITH ANY MODIFICATIONS REQUIRED AS A PART OF THE UTILITY PACKAGE.



A1 S-506 — SECTION
SCALE: 1"=1'-0"



A3 S-506 — DETAIL - PIPE PENETRATION
SCALE: 1"=1'-0"

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DRAIN PIPE EXTENSION DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

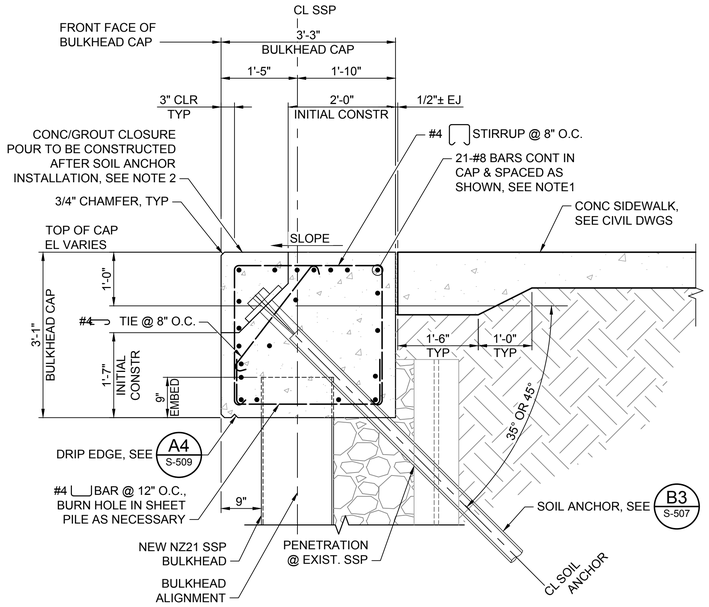
NORTH CAROLINA PROFESSIONAL SEAL 050779 ENGINEER JEFFREY SWITZER
2/28/2025
SEAL

SEAL

Sheet Reference No.
S-506
INDEX: 95 OF 114

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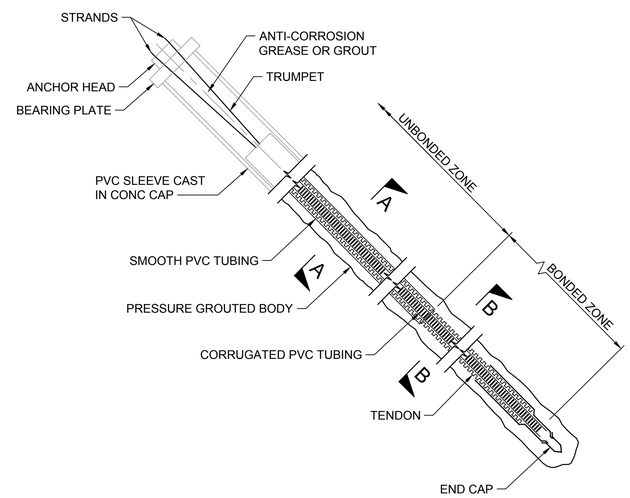
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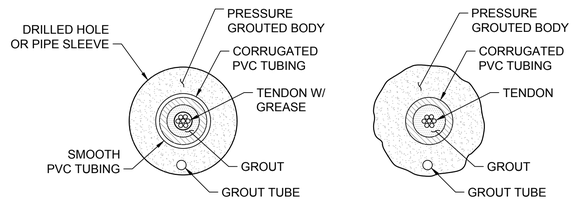
NOTES:

1. AT ENDS OF BULKHEAD CAP, TERMINATE LONGITUDINAL BARS WITH STANDARD 180° HOOK. THE CONTRACTOR MAY ADJUST REINFORCEMENT AS NECESSARY TO AVOID EMBEDDED ITEMS.
2. CONCRETE/GROUT CLOSURE POUR WILL EXTEND THE FULL LENGTH OF NEW CONCRETE BULKHEAD CAP.
3. INSTALL PVC SLEEVE IN NEW CONCRETE CAP AT ALL SOIL ANCHOR LOCATIONS AS REQUIRED.
4. SOIL ANCHORS MAY BE SHIFTED IN THE FIELD A MAXIMUM OF 1'-0" IN EITHER DIRECTION TO AVOID OBSTRUCTIONS.SEE SOIL ANCHOR SCHEDULE FOR LATERAL DESIGN LOAD.

C1 S-301 CONCRETE CAP
SCALE: 3/4"=1'-0"
S-302,S-303,S-304,S-305,S-306



SIDE ELEVATION



SECTION A-A

SECTION B-B

NOTES:

1. REFER TO SPECIFICATION SECTION 31 68 13 "SOIL ANCHORS." & SOIL ANCHOR SCHEDULE, SHEET S-601.
2. SOIL ANCHOR SYSTEM SHALL BE DESIGNED BY A SPECIALIST.
3. SOIL ANCHOR SYSTEM SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH POST TENSION INSTITUTE (PTI) GUIDELINES. SEE SPECIFICATIONS FOR PERFORMANCE/ PROOF TEST, DETAILED REQUIREMENTS.
4. NUMBER OF STRANDS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE SIZE AND QUANTITY OF PRE-STRESSING STRANDS. REQUIRED TO MEET THE SPECIFIED CAPACITY.
5. ULTIMATE GEOTECHNICAL TENDON BOND CAPACITY SHALL NOT BE LESS THAN TWICE OF THE ANCHOR DESIGN LOAD.
6. PROVIDE CLASS I CORROSION PROTECTION FOR TENDONS IN ACCORDANCE WITH PTI RECOMMENDATIONS.
7. SOIL ANCHOR INSTALLATION SHALL BE SUPERVISED BY GEOTECHNICAL PROFESSIONAL.

B3 S-301 SOIL ANCHOR
SCALE: NTS
S-302,S-304,S-305,S-306,S-507

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

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0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SOIL ANCHOR DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIA PIRELLO MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
M&N Project No.: 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
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NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY SWITZER 036993
2/28/2025

SEAL

SEAL

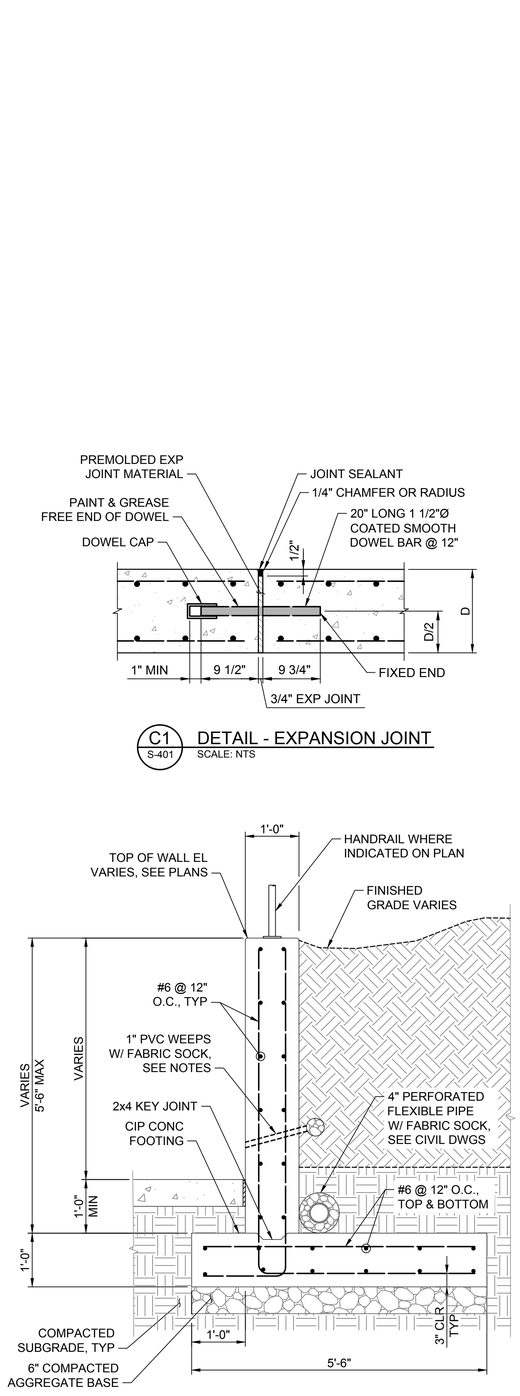
Sheet Reference No.
S-507
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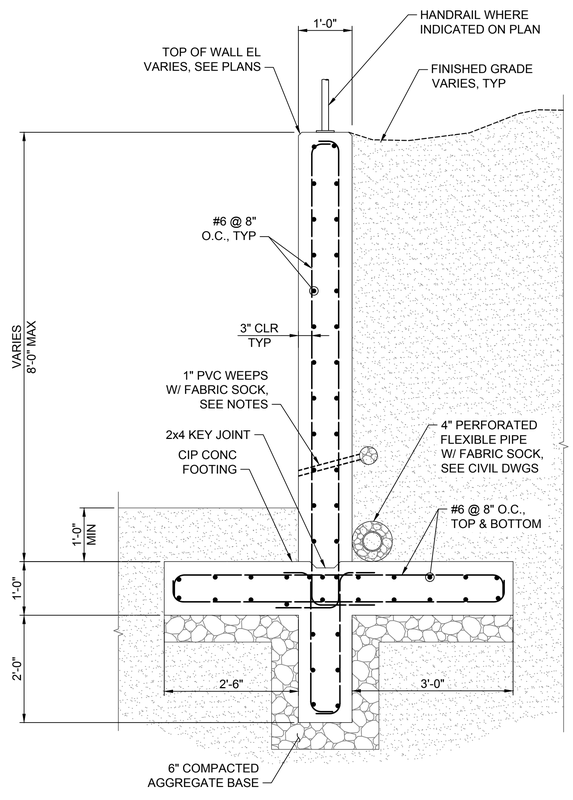
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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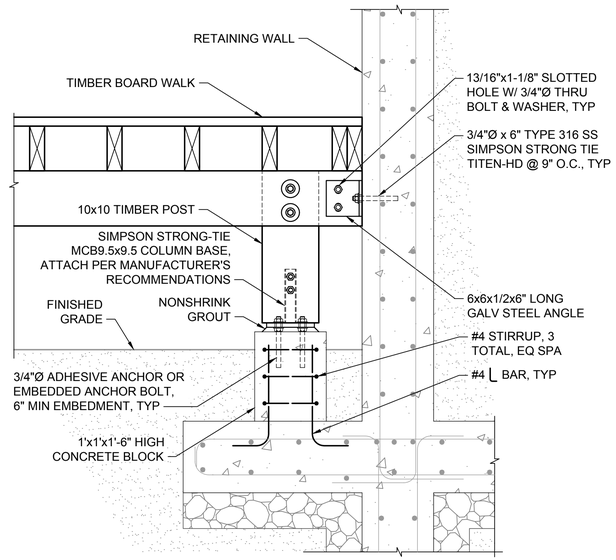
C1 S-401 DETAIL - EXPANSION JOINT
SCALE: NTS



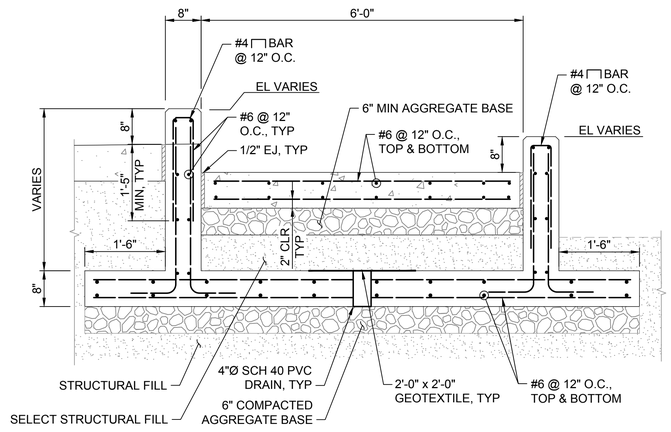
A1 SB103 SECTION - RETAINING WALL
SCALE: 3/4"=1'-0"
S-303



A2 SB103 SECTION - RETAINING WALL
SCALE: 3/4"=1'-0"
SB104,S-303,S-304,S-305



C4 S-305 DETAIL - TIMBER BOARD WALK TO RETAINING WALL CONNECTION
SCALE: 1"=1'=0"



B4 ST103 SECTION - LOADING RAMP
SCALE: 3/4"=1'-0"

WEEP NOTES:

1. FILL FABRIC SOCK WITH 1 CU OF GRAVEL.
2. WEEPS TO BE SET AT 5'-0" O.C. AND 3" ABOVE FINISHED GRADE ONLY WHERE WEEP DISCHARGES TO LANDSCAPE.
3. DO NOT WEEP ONTO PAVING.

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
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GREENVILLE TOWN COMMON & ESPLANADE PROJECT

RETAINING WALL DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030770 ENGINEER MARK PIRELLO 2/28/2025
SEAL

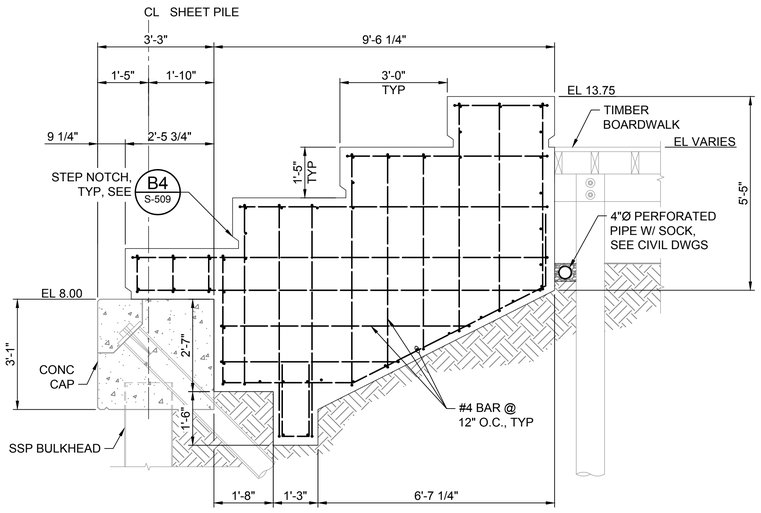
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Sheet Reference No.
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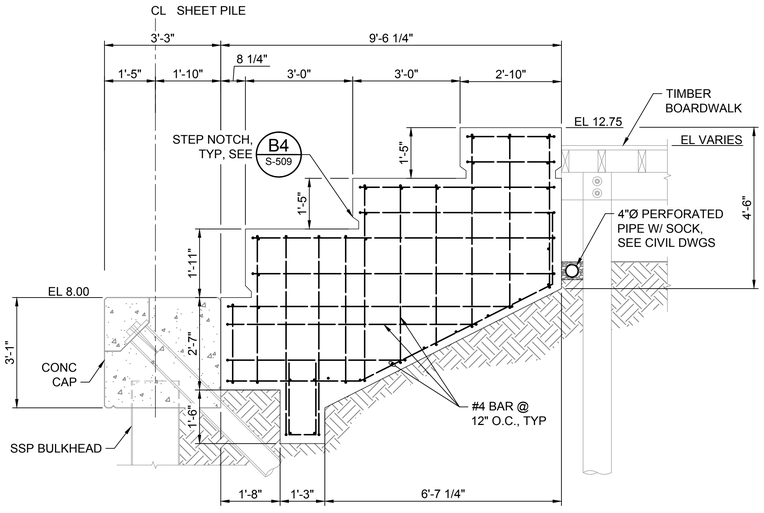
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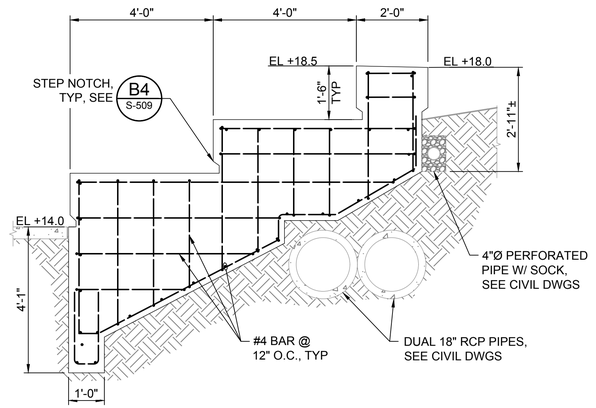
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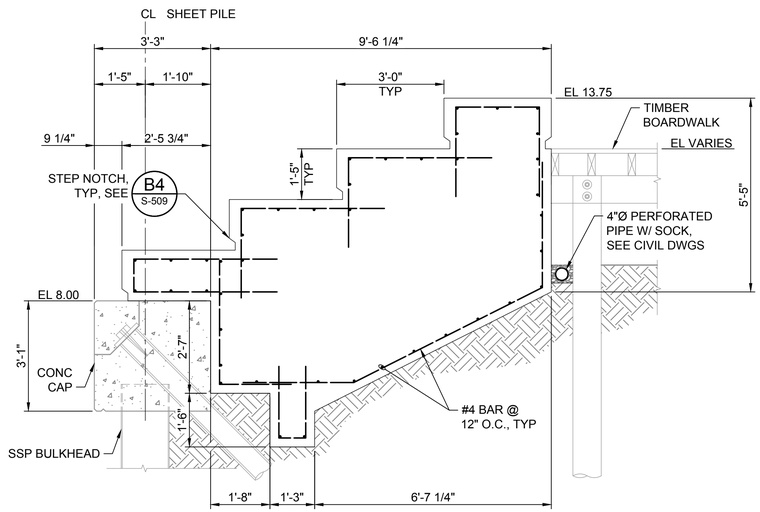
C1 S-509 DETAIL - EAST UPPER TERRACED SEATING EDGE REINFORCING
SCALE: 1/2"=1'-0"



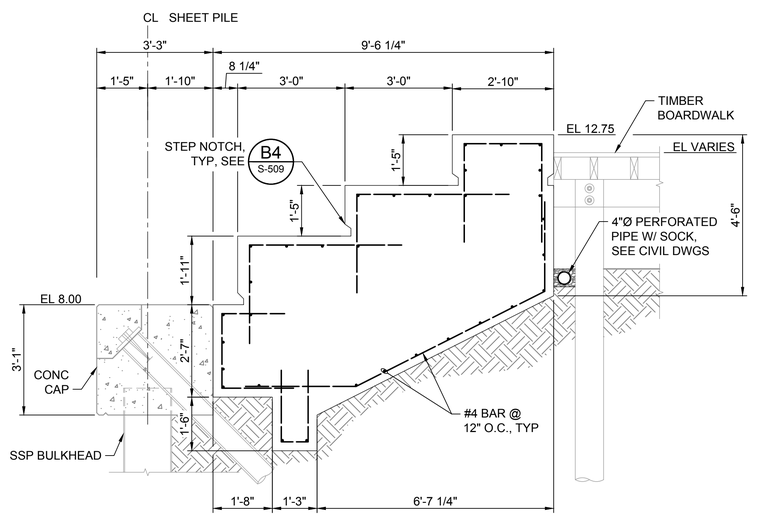
C3 S-509 DETAIL - EAST LOWER TERRACED SEATING EDGE REINFORCING
SCALE: 1/2"=1'-0"



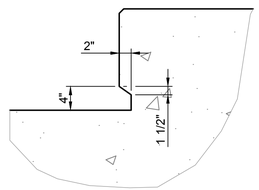
C4 ST102 S-302 DETAIL - WEST TERRACED SEATING
SCALE: 1/2"=1'-0"



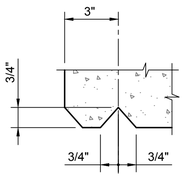
A1 ST104 S-305 DETAIL - EAST UPPER TERRACED SEATING INTERIOR REINFORCING
SCALE: 1/2"=1'-0"



A3 ST104 S-306 DETAIL - EAST LOWER TERRACED SEATING INTERIOR REINFORCING
SCALE: 1/2"=1'-0"



B4 S-509 DETAIL - STEP NOTCH
SCALE: NTS



A4 S-507 DRIP EDGE
SCALE: NTS

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

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GREENVILLE TOWN COMMON & ESPLANADE PROJECT

CONCRETE DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev.: 1
MAN Project No. 221315.02
Drawing code:
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Plot scale: 1:1 (D SHEET)

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NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

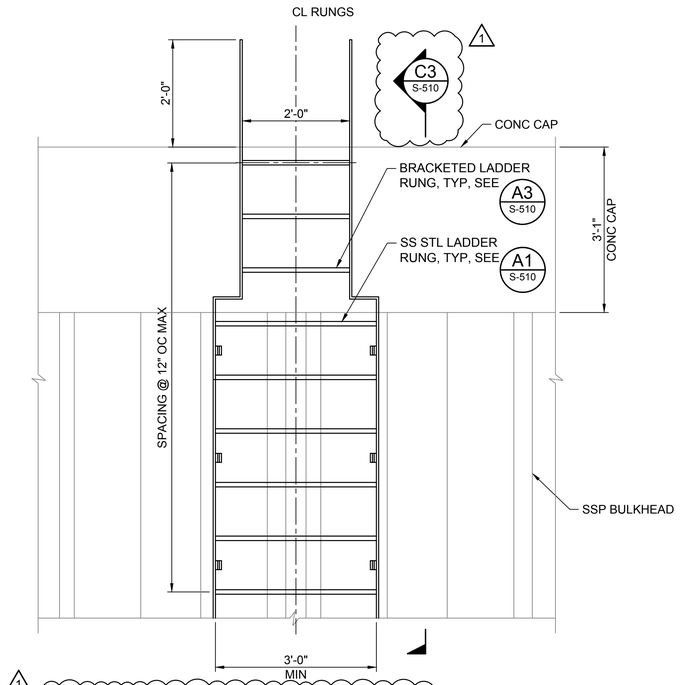
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Sheet Reference No.
S-509
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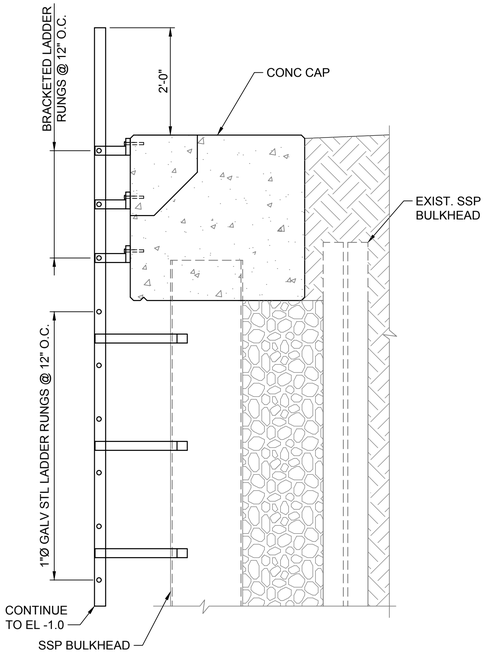
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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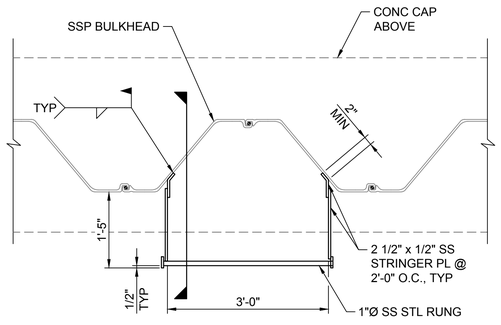
C1 ELEVATION - LADDER
ST101 SCALE: 3/4"=1'-0"

ST102, ST103, ST104



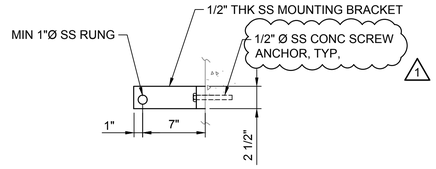
C3 SECTION - LADDER
S-510 SCALE: 3/4"=1'-0"

SECTION

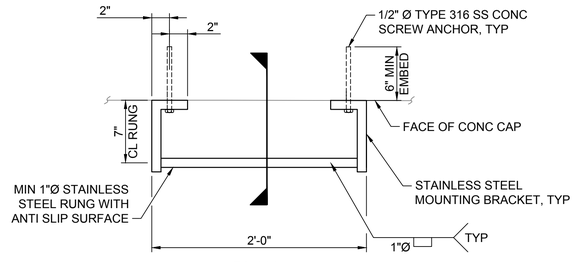


PLAN

A1 REBAR LADDER RUNG
S-511 SCALE: 3/4"=1'-0"

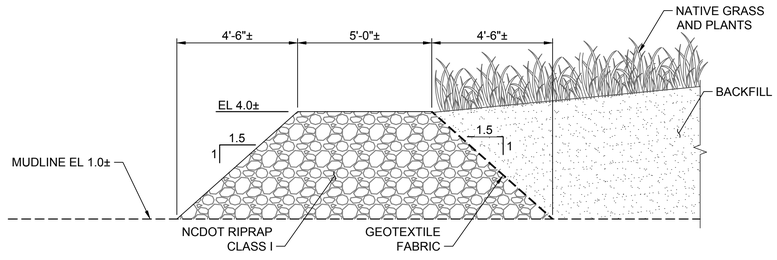


SECTION



PLAN

A3 LADDER RUNG @ CAP
S-511 SCALE: 1 1/2"=1'-0"



B4 SECTION - SHORELINE PROTECTION
ST104 SCALE: NTS

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

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

6" 0'-0" 3" 6"
SCALE: 3"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JHS
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON
& ESPLANADE PROJECT

MISCELLANEOUS DETAILS

Designed by: J. SWYERS
Drawn by: VNM
Chkd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARIA PRELLO
MOFFATT & NICHOL
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JEFFREY SNYDER 049447
2/28/2025

SEAL

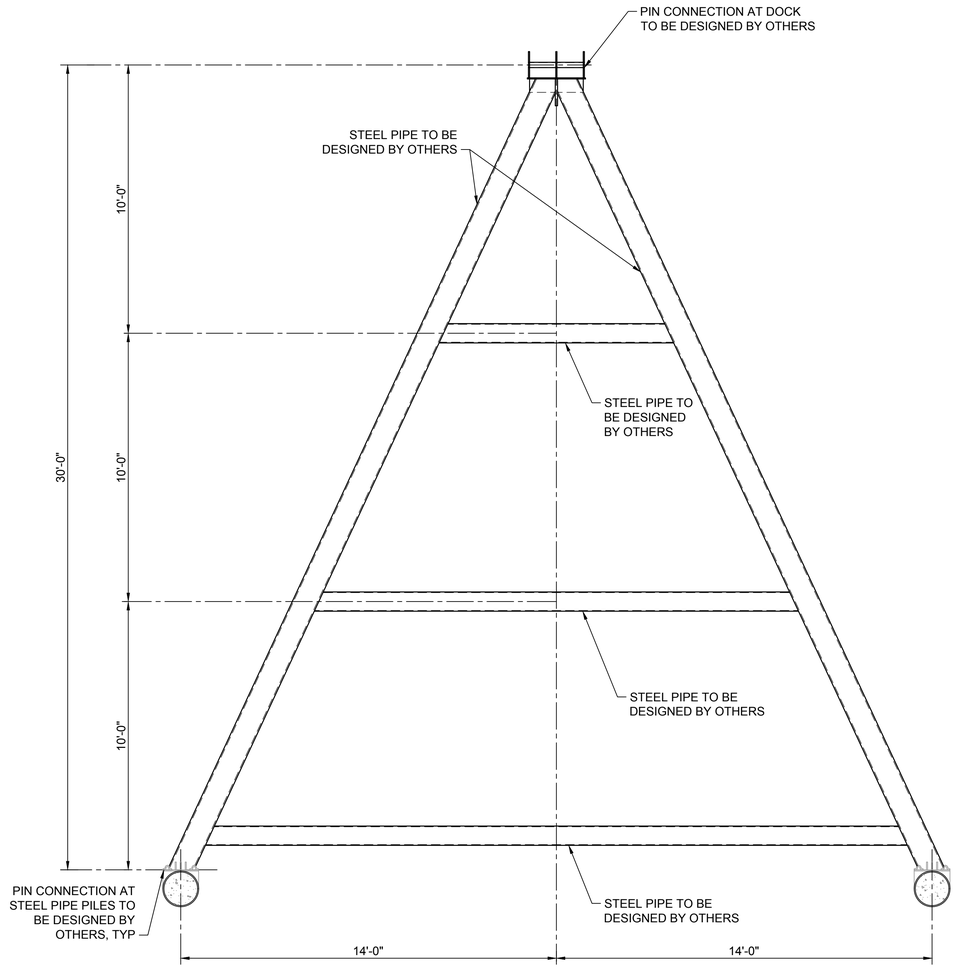
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Sheet
Reference No.
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

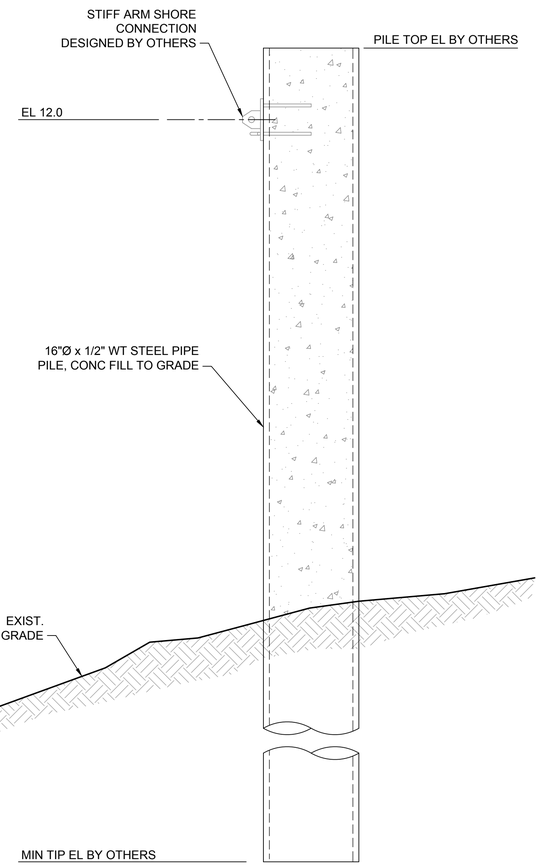
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NOTE:

ALL WELDS DESIGNED BY OTHERS.

B1 / S-409 PLAN - STIFF ARM
SCALE: 3/8"=1'-0"



B3 / S-409 STIFF ARM FOUNDATION
SCALE: 1"=1'-0"

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

STIFF ARM DETAILS ADDITIVE BID #1

Designed by: J. SWYERS
Drawn by: VNM
2nd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERRELLO MOFFATT & NICHOL
Date: 2025-02-07
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 039774 ENGINEER MARK E. PERRELLO 2/28/2025
SEAL

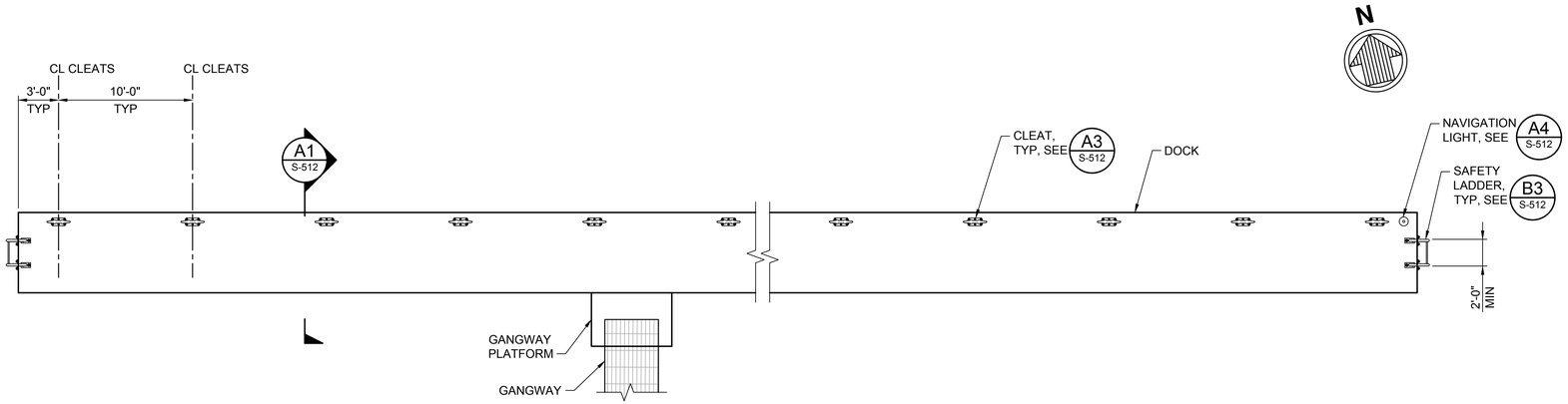
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Sheet Reference No.
S-511
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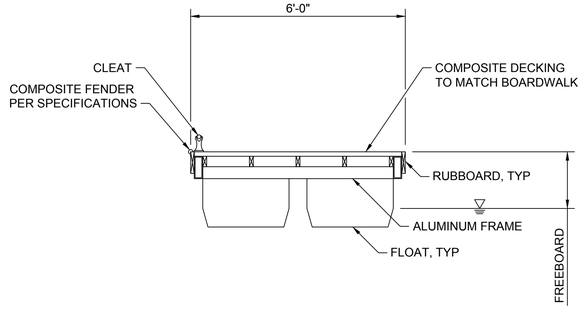
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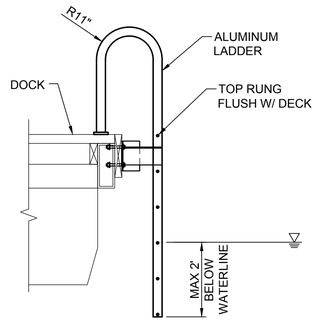
C1 S-409 PLAN - TRANSIENT DOCK
SCALE: 3/16=1'-0"



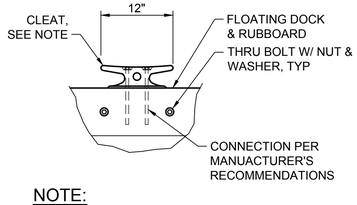
NOTE:

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

A1 S-512 SECTION
SCALE: NTS



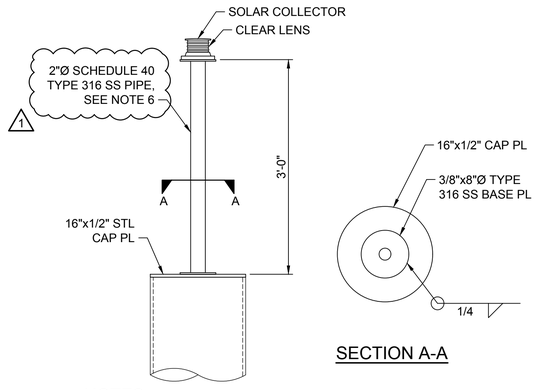
B3 S-512 DETAIL - SAFETY LADDER
SCALE: NTS



NOTE:

MOUNT CLEAT ON DOCK OR WALER/RUBBOARD PER MANUFACTURER'S RECOMMENDATIONS.

A3 S-512 DETAIL - CLEAT
SCALE: NTS



SECTION A-A

NOTES:

1. UV RESISTANT POLYCARBONATE/POLYSOLAXANE CO-POLYMER BODY AND LENS MATERIAL. DOUBLE O-RING SEALING WITH WATERPROOF VENT. REPLACEABLE BATTERY PACK WITH STATUS FEEDBACK.
2. SOLAR PANEL WITH BYPASS BLOCKING DIODE FUNCTION AND MAXIMUM POWER POINT (MPPT).
3. LED LIGHT SOURCE WITH TEMPERATURE-CORRECTED LED DRIVERS. SELECTABLE FLASH PATTERNS. SELECTABLE INTENSITY FROM 25 TO 925 LUX. SELECTABLE COLOR TO BE YELLOW.
4. LUMINAIRE SHALL BE MANUFACTURER CARMANAH MODEL: #M550 OR APPROVED EQUAL. -45 TO 124FAHRENHEIT AMBIENT OPERATING TEMPERATURE. USCG PATON 33SFR66 & SFR67 CLASS C COMPLIANT.
5. SOLAR POWERED NAVIGATIONAL LIGHT SHALL BE INSTALLED AS SHOWN ON DRAWINGS. SECURE NAVIGATIONAL LIGHT WITH TYPE 316 STAINLESS STEEL HARDWARE.

1

6. LUMINAR PIPE MOUNT TO BE USED FOR DEBRIS DEFLECTOR PILE. A DIRECT MOUNT (NO PIPE) IS TO BE USED FOR THE TRANSIENT DOCK CONNECTION.

A4 S-512 DETAIL - NAVIGATION LIGHT
SCALE: NTS
S-513

8'-0" 0'-0" 4'-0" 8'-0"
SCALE: 3/16"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JHS
0	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

FLOATING DOCK DETAILS ADDITIVE BID #1

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO
Date: 2025-02-07
Rev.: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049779 JEFFREY SWYERS
2/28/2025

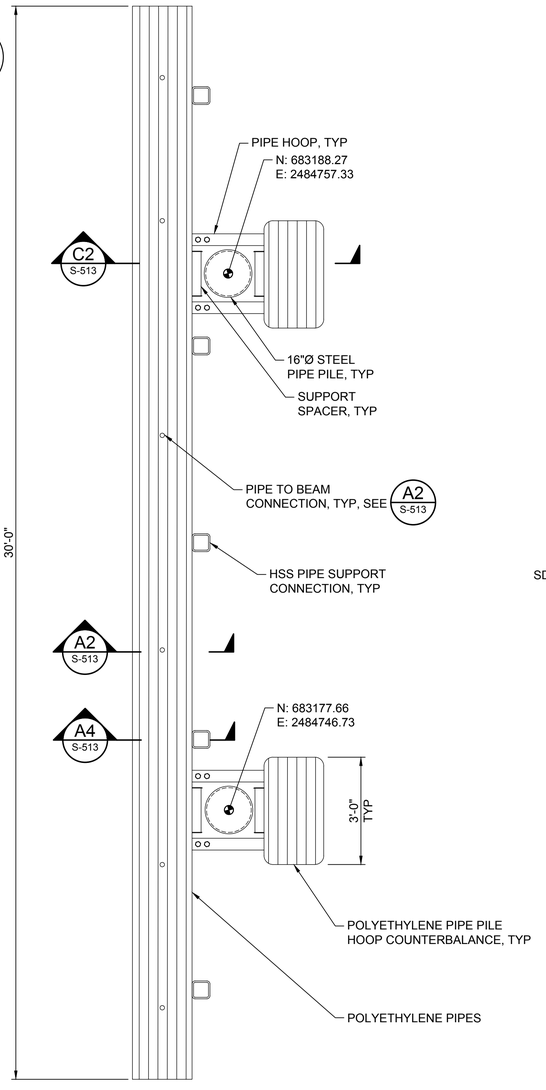
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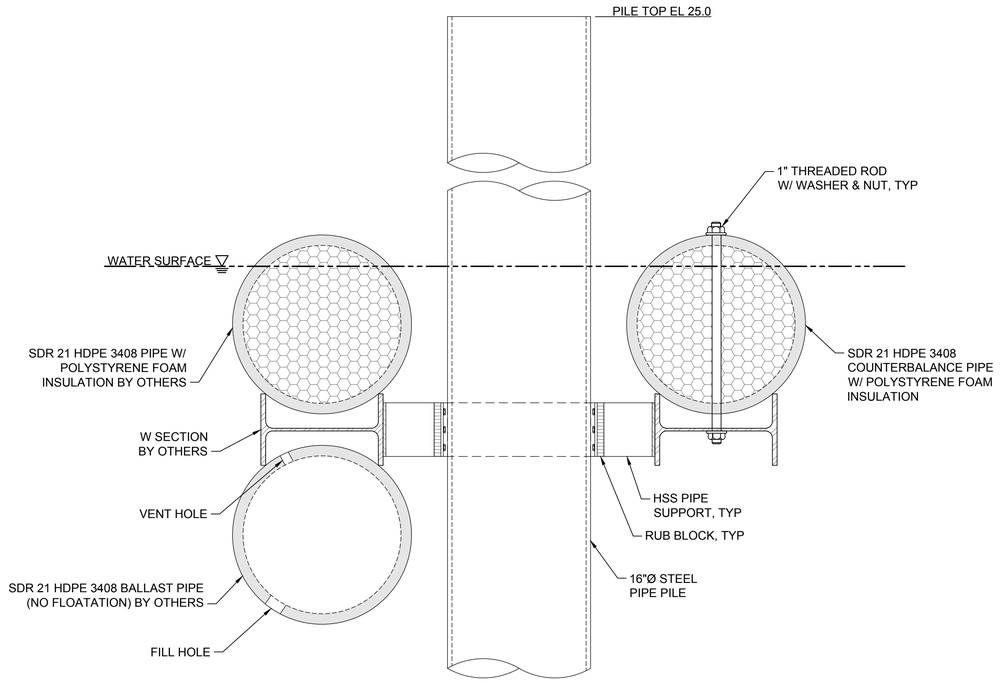
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S-512
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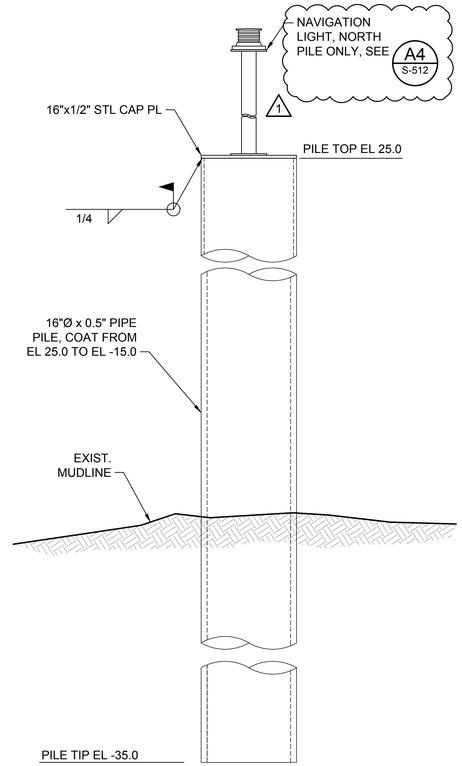
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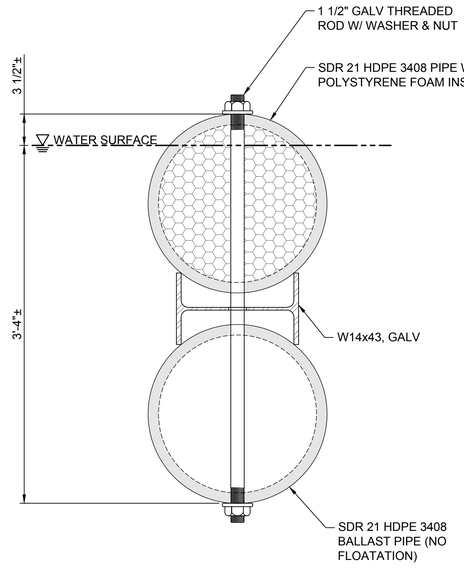
B1 S-409 PLAN - DEBRIS DEFLECTOR
SCALE: 1/2"=1'-0"



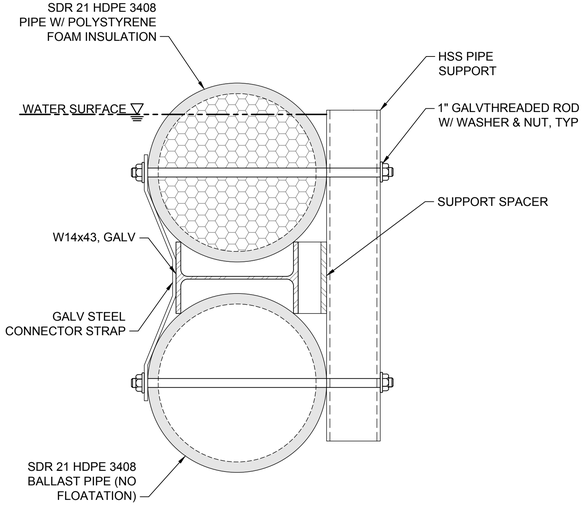
C2 S-513 SECTION - PILE HOOP
SCALE: 1 1/2"=1'-0"



C5 S-513 SECTION - STEEL PIPE PILE
SCALE: 1"=1'-0"



A2 S-513 SECTION - PIPE TO BEAM CONNECTION
SCALE: 1 1/2"=1'-0"



A4 S-513 SECTION - PIPE SUPPORT CONNECTION
SCALE: 1 1/2"=1'-0"

NOTE:

DEBRIS DEFLECTOR SYSTEM TO BE DESIGNED BY MANUFACTURER.

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

1'-0" 0'-0" 1'-0" 2'-0"
SCALE: 1"=1'-0"

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

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-02-28	JMS
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEBRIS DEFLECTOR DETAILS ADDITIVE BID #1

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PORCELLO
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. 1

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050776 ENGINEER MARK P. PORCELLO 2/28/2025
SEAL

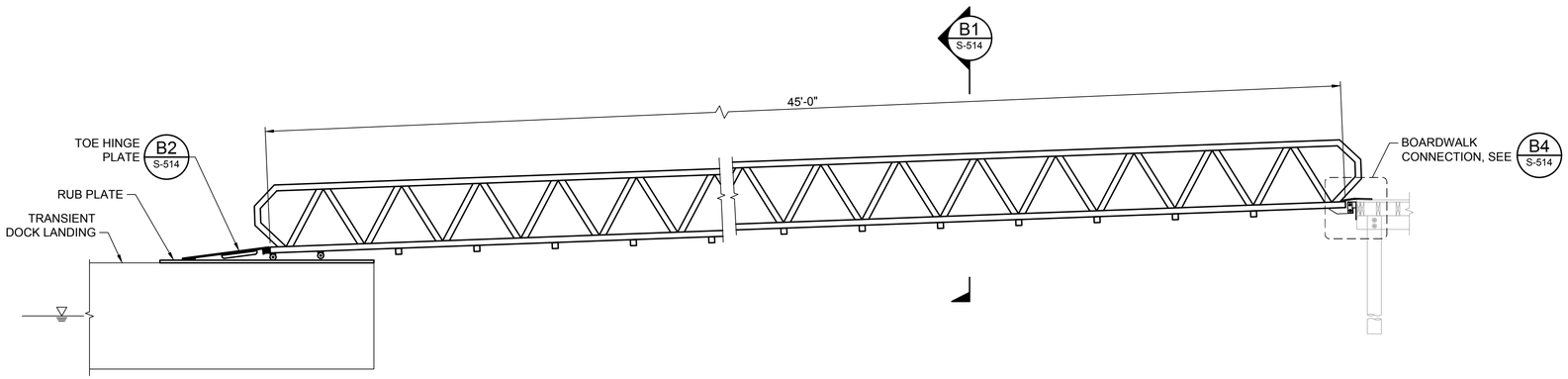
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Sheet Reference No.
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

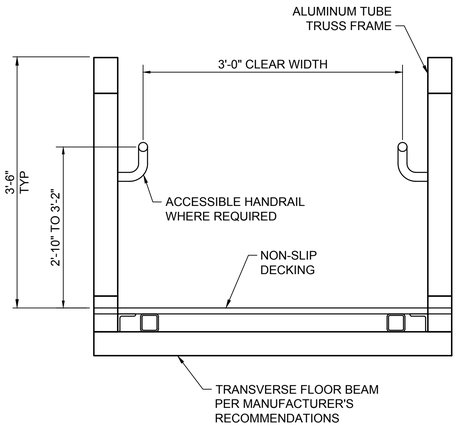
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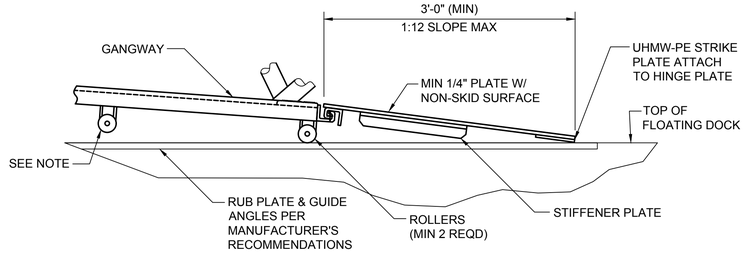
D1 S-406 S-409 — ELEVATION - ALUMINUM GANGWAY
SCALE: NTS

NOTES:

1. SHORE CONNECTION SHALL INCLUDE ADA TRANSITION PLATE SPANNING FROM THE GANGWAY TO THE SHORE SIDE STRUCTURE.
2. SHORE CONNECTION SHALL BE INCLUDED WITH GANGWAY SUBMITTAL FOR APPROVAL.
3. SHORE CONNECTION SHALL BE DESIGNED TO MEET PERFORMANCE CRITERIA IN SPECIFICATIONS INCLUDING BUT NOT LIMITED TO CHANGES IN WATER LEVEL, LIVE LOAD, AND WEIGHT OF GANGWAY.



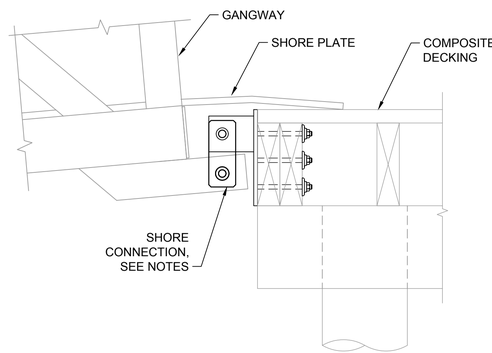
B1 S-514 — SECTION
SCALE: NTS



NOTE:

CONTRACTOR SHALL PROVIDE A SECONDARY ROLLER/SUPPORT TO ACCOMMODATE HIGH WATER EVENTS AT FLOATING DOCK ONLY.

B2 S-514 — DETAIL - HINGE PLATE
SCALE: NTS



B4 S-514 — DETAIL - LANDING CONNECTION
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

GANGWAY DETAILS ADDITIVE BID #1

Rev. 1
Date: 2025-02-07
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: J. SWYERS
Dwn by: VNM
Ckd by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
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NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 030774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
S-514
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SOIL ANCHOR SCHEDULE

DESIGNATION	SOIL ZONE	SIZE	ANGLE FROM HORIZONTAL	DESIGN LOAD (KIP)	ESTIMATED LENGTH (FT)	PROVIDED LENGTH (FT)
1	D		45	90	43'-0"	
2	D		45	90	43'-0"	
3	D		45	90	43'-0"	
4	D		45	90	43'-0"	
5	D		45	90	43'-0"	
6	D		45	90	43'-0"	
7	D		45	90	43'-0"	
8	D		45	90	43'-0"	
9	D		45	90	43'-0"	
10	D		45	90	43'-0"	
11	D		45	90	43'-0"	
12	D		45	90	43'-0"	
13	D		45	90	43'-0"	
14	D		45	90	43'-0"	
15	D		45	90	43'-0"	
16	D		45	90	43'-0"	
17	D		45	90	43'-0"	
18	D		45	90	43'-0"	
19	D		45	90	43'-0"	
20	D		45	90	43'-0"	
21	D		45	90	43'-0"	
22	D		45	90	43'-0"	
23	D		45	90	43'-0"	
24	D		45	90	43'-0"	
25	D		45	90	43'-0"	
26	D		45	90	43'-0"	
27	D		45	90	43'-0"	
28	D		45	90	43'-0"	
29	D		45	90	43'-0"	
30	D		45	90	43'-0"	
31	C/D		45	125/90	51'-0"	
32	C		45	125	51'-0"	
33	C		45	125	51'-0"	
34	C		45	125	51'-0"	
35	C		45	125	51'-0"	
36	C		45	125	51'-0"	
37	C		45	125	51'-0"	
38	C		45	125	51'-0"	
39	C		35	125	51'-0"	
40	C		35	125	51'-0"	
41	C		35	125	51'-0"	
42	C		35	125	51'-0"	
43	C		35	125	51'-0"	
44	C		35	125	51'-0"	
45	C		35	125	51'-0"	
46	C		35	125	51'-0"	
47	C		35	125	51'-0"	
48	C		35	125	51'-0"	
49	C		35	125	51'-0"	
50	C		35	125	51'-0"	
51	C		35	125	51'-0"	
52	C		35	125	51'-0"	
53	C		35	125	51'-0"	
54	C		35	125	51'-0"	
55	C		35	125	51'-0"	
56	C		35	125	51'-0"	
57	C		35	125	51'-0"	

SOIL ANCHOR SCHEDULE

DESIGNATION	SOIL ZONE	SIZE	ANGLE FROM HORIZONTAL	DESIGN LOAD (KIP)	ESTIMATED LENGTH (FT)	PROVIDED LENGTH (FT)
58	C		35	125	51'-0"	
59	C		35	125	51'-0"	
60	C		35	125	51'-0"	
61	C		35	125	51'-0"	
62	C		35	125	51'-0"	
63	B		35	125	43'-0"	
64	B		35	125	43'-0"	
65	B		35	125	43'-0"	
66	B		35	125	43'-0"	
67	B		35	125	43'-0"	
68	B		35	125	43'-0"	
69	B		35	125	43'-0"	
70	B		35	125	43'-0"	
71	B		35	125	43'-0"	
72	B		35	125	43'-0"	
73	B		35	125	43'-0"	
74	B		35	125	43'-0"	
75	B		35	125	43'-0"	
76	B		35	125	43'-0"	
77	B		35	125	43'-0"	
78	B		35	125	43'-0"	
79	B		35	125	43'-0"	
80	B		35	125	43'-0"	
81	B		35	125	43'-0"	
82	B		35	125	43'-0"	
83	B		35	125	43'-0"	
84	B		35	125	43'-0"	
85	B		35	125	43'-0"	
86	B		35	125	43'-0"	
87	B		35	125	43'-0"	
88	B		35	125	43'-0"	
89	B		35	125	51'-0"	
90	B		35	125	51'-0"	
91	B		35	125	51'-0"	
92	B		35	125	51'-0"	
93	B		35	125	51'-0"	
94	B		35	125	51'-0"	
95	B		35	125	51'-0"	
96	B		35	125	51'-0"	
97	B		35	125	51'-0"	
98	B		35	125	51'-0"	
99	B		35	125	51'-0"	
100	B		35	125	51'-0"	
101	B		35	125	51'-0"	
102	B		35	125	51'-0"	
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104	B		35	125	51'-0"	
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106	B		35	125	51'-0"	
107	B		35	125	51'-0"	
108	B		35	125	51'-0"	
109	A		35	145	51'-0"	
110	A		35	145	51'-0"	
111	A		35	145	51'-0"	
112	A		35	145	51'-0"	
113	A		35	145	51'-0"	
114	A		35	145	51'-0"	

SOIL ANCHOR SCHEDULE

DESIGNATION	SOIL ZONE	SIZE	ANGLE FROM HORIZONTAL	DESIGN LOAD (KIP)	ESTIMATED LENGTH (FT)	PROVIDED LENGTH (FT)
115	A		35	145	51'-0"	
116	A		35	145	51'-0"	
117	A		35	145	51'-0"	
118	A		35	145	51'-0"	
119	A		35	145	51'-0"	
120	A		35	145	51'-0"	
121	A		35	145	51'-0"	
122	A		35	145	51'-0"	
123	A		35	145	70'-0"	
124	A		35	145	70'-0"	
125	A		35	145	70'-0"	
126	A		35	145	70'-0"	
127	A		35	145	70'-0"	
128	A		35	145	70'-0"	
129	A		35	145	70'-0"	
130	A		35	145	70'-0"	
131	A		35	145	70'-0"	
132	A		35	145	70'-0"	
133	A		35	145	70'-0"	
134	A		35	145	70'-0"	
135	A		35	145	70'-0"	
136	A		35	145	70'-0"	
137	A		35	145	70'-0"	
138	A		35	145	70'-0"	
139	A		35	145	70'-0"	
140	A		35	145	70'-0"	
141	A		35	145	70'-0"	
142	A		35	145	70'-0"	
143	A		35	145	70'-0"	
144	A		35	145	70'-0"	
145	A		35	145	70'-0"	
146	A		35	145	70'-0"	
147	A		35	145	70'-0"	
148	A		35	145	70'-0"	
149	A		35	145	70'-0"	
150	A		35	145	70'-0"	
151	A		35	145	70'-0"	
152	A		35	145	70'-0"	
153	A		35	145	70'-0"	
154	A		35	145	70'-0"	
155	A		35	145	70'-0"	
156	A		35	145	70'-0"	
157	A		35	145	70'-0"	
158	A		35	145	70'-0"	
159	A		35	145	70'-0"	
160	A		35	145	70'-0"	
161	A		35	145	70'-0"	
162	A		35	145	70'-0"	
163	A		35	145	70'-0"	
164	A		35	145	70'-0"	
165	A		35	145	70'-0"	
166	A		35	145	70'-0"	
167	A		35	145	70'-0"	
168	A		35	145	70'-0"	
169	A		35	145	70'-0"	
170	A		35	145	70'-0"	

ISSUED FOR BID
ISSUED: 2025-02-07
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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SOIL ANHOR SCHEDULE

Date: 2025-02-07 | Rev: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

Designed by: J. SWYERS
Drawn by: VNM | Cad by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERELLO, MOFFATT & NICHOL

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NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025

SEAL

SEAL

Sheet Reference No.
S-601
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File: Q:\RAI\221315-02\20 CADD_Active_Greenville Town Commons\221315025-601 - Plotted: 2/27/2025 4:59 PM by FORD, BRIAN - Saved: 2/14/2025 3:47 PM by NMORGAN

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

TIMBER PILE SCHEDULE

PILE BENT	PILE ROW	PILE TYPE	PILE CUTOFF EL (NAVD88)	ESTIMATED PILE TIP EL (NAVD88)	BID LENGTH (VLF)
1	A	10"Ø TIMBER	9.2	-10.8	20
	B	10"Ø TIMBER	9.1	-10.9	20
2	A	10"Ø TIMBER	8.9	-11.1	20
	B	10"Ø TIMBER	8.7	-11.3	20
3	C	10"Ø TIMBER	8.6	-11.4	20
	D	10"Ø TIMBER	8.5	-11.5	20
4	C	10"Ø TIMBER	8.3	-11.7	20
	D	10"Ø TIMBER	8.4	-11.6	20
5	C	10"Ø TIMBER	8.0	-12.0	20
	D	10"Ø TIMBER	8.1	-11.9	20
6	C	10"Ø TIMBER	7.7	-12.3	20
	D	10"Ø TIMBER	7.8	-12.2	20
7	C	10"Ø TIMBER	7.7	-12.3	20
	E	10"Ø TIMBER	7.7	-12.3	20
	F	10"Ø TIMBER	7.7	-12.3	20
8	E	10"Ø TIMBER	7.9	-12.1	20
	F	10"Ø TIMBER	7.8	-12.2	20
9	E	10"Ø TIMBER	8.3	-11.7	20
	F	10"Ø TIMBER	8.2	-11.8	20
10	E	10"Ø TIMBER	8.7	-11.3	20
	F	10"Ø TIMBER	8.6	-11.4	20
11	E	10"Ø TIMBER	9.1	-10.9	20
	F	10"Ø TIMBER	9.0	-11.0	20
12	G	10"Ø TIMBER	9.2	-10.8	20
	H	10"Ø TIMBER	9.2	-10.8	20
	J	10"Ø TIMBER	9.2	-10.8	20
13	G	10"Ø TIMBER	9.3	-10.7	20
	H	10"Ø TIMBER	9.3	-10.7	20
	J	10"Ø TIMBER	9.3	-10.7	20
14	G	10"Ø TIMBER	9.7	-10.3	20
	H	10"Ø TIMBER	9.7	-10.3	20
15	G	10"Ø TIMBER	10.2	-9.8	20
	H	10"Ø TIMBER	10.2	-9.8	20
16	G	10"Ø TIMBER	10.7	-9.3	20
	H	10"Ø TIMBER	10.7	-9.3	20
17	G	10"Ø TIMBER	11.2	-8.8	20
	H	10"Ø TIMBER	11.2	-8.8	20
18	I	10"Ø TIMBER	8.6	-11.4	20
	J	10"Ø TIMBER	8.4	-11.6	20
19	I	10"Ø TIMBER	7.9	-12.1	20
	J	10"Ø TIMBER	7.5	-12.5	20
20	K	10"Ø TIMBER	7.3	-12.7	20
	L	10"Ø TIMBER	7.3	-12.7	20
21	K	10"Ø TIMBER	7.1	-12.9	20
	L	10"Ø TIMBER	7.1	-12.9	20
22	K	10"Ø TIMBER	7.1	-12.9	20
	M	10"Ø TIMBER	7.1	-12.9	20
23	K	10"Ø TIMBER	7.1	-12.9	20
	M	10"Ø TIMBER	7.1	-12.9	20
24	K	10"Ø TIMBER	7.1	-12.9	20
	M	10"Ø TIMBER	7.1	-12.9	20
25	L	10"Ø TIMBER	7.1	-12.9	20
	M	10"Ø TIMBER	7.1	-12.9	20
26	P	10"Ø TIMBER	11.2	-8.8	20
27	N	10"Ø TIMBER	11.2	-8.8	20
	P	10"Ø TIMBER	11.2	-8.8	20
28	N	10"Ø TIMBER	11.4	-8.6	20
	P	10"Ø TIMBER	11.4	-8.6	20
29	O	10"Ø TIMBER	11.4	-8.6	20
	Q	10"Ø TIMBER	11.5	-8.5	20
30	O	10"Ø TIMBER	11.5	-8.5	20
	Q	10"Ø TIMBER	11.5	-8.5	20
31	O	10"Ø TIMBER	11.6	-8.4	20
	Q	10"Ø TIMBER	11.6	-8.4	20
32	O	10"Ø TIMBER	11.7	-8.3	20
	Q	10"Ø TIMBER	11.7	-8.3	20
33	O	10"Ø TIMBER	11.8	-8.2	20
	Q	10"Ø TIMBER	11.8	-8.2	20
34	O	10"Ø TIMBER	11.9	-8.1	20
	Q	10"Ø TIMBER	11.9	-8.1	20
35	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
36	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20

TIMBER PILE SCHEDULE

PILE BENT	PILE ROW	PILE TYPE	PILE CUTOFF EL (NAVD88)	ESTIMATED PILE TIP EL (NAVD88)	BID LENGTH (VLF)
37	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
38	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
	R	10"Ø TIMBER	11.9	-8.1	20
39	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
	R	10"Ø TIMBER	11.9	-8.1	20
40	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
41	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
	R	10"Ø TIMBER	11.9	-8.1	20
42	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
	R	10"Ø TIMBER	11.9	-8.1	20
43	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
44	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
	R	10"Ø TIMBER	11.9	-8.1	20
45	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
	R	10"Ø TIMBER	11.9	-8.1	20
46	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
47	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
48	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
49	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
50	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
51	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
52	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
53	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
54	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
55	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
56	T	10"Ø TIMBER	12.0	-8.0	20
	V	10"Ø TIMBER	11.9	-8.1	20
57	S	10"Ø TIMBER	12.0	-8.0	20
	T	10"Ø TIMBER	12.0	-8.0	20
	U	10"Ø TIMBER	11.9	-8.1	20
58	T	10"Ø TIMBER	12.0	-8.0	20
	U	10"Ø TIMBER	11.9	-8.1	20
59	T	10"Ø TIMBER	12.2	-7.8	20
	U	10"Ø TIMBER	12.2	-7.8	20
60	T	10"Ø TIMBER	12.4	-7.6	20
	U	10"Ø TIMBER	12.4	-7.6	20
61	T	10"Ø TIMBER	12.6	-7.4	20
	U	10"Ø TIMBER	12.6	-7.4	20
62	T	10"Ø TIMBER	12.8	-7.2	20
	U	10"Ø TIMBER	12.8	-7.2	20
63	T	10"Ø TIMBER	13.0	-7.0	20
	U	10"Ø TIMBER	13.0	-7.0	20
64	V	10"Ø TIMBER	19.2	-0.8	20
	W	10"Ø TIMBER	19.3	-0.7	20
65	V	10"Ø TIMBER	19.7	-0.3	20
	W	10"Ø TIMBER	19.6	-0.4	20
66	V	10"Ø TIMBER	20.3	0.3	20
	W	10"Ø TIMBER	20.3	0.3	20
67	V	10"Ø TIMBER	20.5	0.5	20
	W	10"Ø TIMBER	20.6	0.6	20
68	V	10"Ø TIMBER	21.0	0.9	20
	W	10"Ø TIMBER	21.0	0.9	20

PIPE PILE SCHEDULE

PILE LINE	PILE ROW	PILE SIZE	PILE CUTOFF EL (NAVD88)	ESTIMATED PILE TIP EL (NAVD88)	BID LENGTH (VLF)
69	X	12" X-STRONG	20.3	-9.7	30
	Y	12" X-STRONG	20.3	-9.7	30
	Z	12" X-STRONG	20.3	-9.7	30
	AA	12" X-STRONG	20.3	-9.7	30
70	X	12" X-STRONG	20.3	-9.7	30
	Y	12" X-STRONG	20.3	-9.7	30
	Z	12" X-STRONG	20.3	-9.7	30
	AA	12" X-STRONG	20.3	-9.7	30
71	Y	12" X-STRONG	20.3	-9.7	30
	Z	12" X-STRONG	20.3	-9.7	30
	AA	12" X-STRONG	20.3	-9.7	30
72	Z	12" X-STRONG	20.3	-9.7	30
	AA	12" X-STRONG	20.3	-9.7	30

1

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Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.
1	ADDENDUM NO. 1	2025-03-28	JMS
0	ISSUED FOR BID	2025-02-07	JMS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE SCHEDULE

Designed by: J. SWYERS
Drawn by: VNM
Cad by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PERSELLO, MOFFATT & NICHOL

Date: 2025-02-07
Rev: 1
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

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NC SURVEYING FIRM LICENSE NO. C-427
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER JEFFREY SWYERS
2/28/2025
SEAL

SEAL

Sheet Reference No.
S-602
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File: Q:\RAI\221315-02\20 CADD_Active_Greenville Town Commons\221315025-602 ; Plotted: 2/27/2025 4:59 PM by FORD, BRIAN ; Saved: 2/27/2025 3:40 PM by BFORD

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

ELECTRICAL GENERAL NOTES

1. UNLESS SPECIFICALLY NOTED TO BE EXISTING, ALL WORK AND MATERIAL SHOWN ARE NEW AND SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL APPARATUS, PARTS, MATERIAL, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED AND SHALL INCLUDE OTHER EQUIPMENT SELECTIONS TO MEET THE PARAMETERS INDICATED. MANUFACTURER'S INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED UNLESS SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW AND SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE. ALL ACCOMPLISHED RESULTS SHALL BE PROVIDED AT NO ADDITIONAL COST OR TIME TO THE OWNER AND NO ADDITIONAL COST TO THE CONTRACT AMOUNT INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

2. PROVIDE IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED. INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING, CONDUIT, AND ASSOCIATED APPURTENANCE FOR EQUIPMENT PROVIDED BY OTHERS AND OTHER CONTRACTORS, UNLESS OTHERWISE NOTED.

4. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AS A WHOLE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, CIRCUITRY, PROTECTIVE DEVICES, AND ASSOCIATED APPURTENANCES FOR ALL EQUIPMENT REQUIRING POWER THAT IS NOT INDICATED ON THE ELECTRICAL DRAWINGS BUT INDICATED IN THE CONTRACT DOCUMENTS. THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

5. WHEREVER A NEW TO EXISTING CONNECTION IS REQUIRED, PROVIDE EXTENSION RINGS, SPLICES, WIRE, CONDUIT FITTINGS, AND ASSOCIATED APPURTENANCES. PERFORM ALL CUTTING AND PATCHING AS REQUIRED TO MAKE THE CONNECTIONS.

6. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF ALL NEW WORK IDENTIFIED IN THE CONTRACT DOCUMENTS INCLUDING NEW WORK DEFINED IN THE EXISTING AND NEW ELECTRICAL ROOM LAYOUTS.

7. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. DURING THE VISIT AND/OR DURING CONSTRUCTION, IF ANY CONFLICTS ARISE IN BETWEEN EXISTING CONDITIONS AND NEW WORK, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SKETCHES TO THE ENGINEER OF RECORD ON THE CORRECTIVE MEASURES OF THE CONFLICT PRIOR TO THE WORK BEING PERFORMED. THE ENGINEER SHALL PROVIDE RECOMMENDATIONS BACK TO THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE SKETCHES WITH RECOMMENDATIONS, TO INCLUDE LABOR AND MATERIALS AT NO ADDITIONAL COST TIME TO THE OWNER AND NO ADDITIONAL COST TO THE CONTRACT AMOUNT.

8. THE CONTRACTOR SHALL CLOSELY STUDY THE CONSTRUCTION SEQUENCE AND NOTES AS OUTLINED. SLIGHT DEVIATIONS FROM CONFINED WORK SPACES MAY BE NECESSARY TO FULLY COMPLETE A CONSTRUCTION AREA AS OUTLINED ON THAT SHEET. THE DEVIATIONS SHALL BE HELD TO A MINIMUM AND SHALL BE FULLY COORDINATED WITH THE OWNER. ALL SUCH DEVIATIONS SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.

9. THE CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND LOAD OF ALL EQUIPMENT BEING FURNISHED BY THE OTHERS BEFORE ROUGHING IN OF ANY CONDUIT. WHERE LOCATIONS OF EQUIPMENT ARE INSTALLED OTHER THAN INDICATED OR EQUIPMENT OF HIGHER OR LOWER LOADS IS INSTALLED, THE SIZE OF STARTERS, CIRCUITRY, PROTECTIVE DEVICES, AND ACCESSORIES SHALL BE ADJUSTED ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER.

10. CONDUIT ROUTINGS SHALL NOT INTERFERE WITH NEW OR EXISTING EQUIPMENT, PIPING, CONDUIT OR WORK AND SHALL NOT OBSTRUCT ACCESS TO ANY EQUIPMENT.

11. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF LIGHTING FIXTURES AND DEVICES WITH OTHER CONTRACTORS WHO'S WORK IT WILL AFFECT. ANY WORK REQUIRED BY OTHER CONTRACTORS DIRECTLY RELATED TO THE WORK TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR SHALL BE COORDINATED BEFORE WORK COMMENCES. THE ELECTRICAL CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR THE WORK PERFORMED.

12. A SEPARATE EQUIPMENT GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUITS. THE EQUIPMENT GROUND CONDUCTOR SHALL BE CONNECTED TO ALL DEVICES AND EQUIPMENT SUCH THAT REMOVAL OF ANY DEVICE OR EQUIPMENT CANNOT INTERRUPT THE CONTINUITY OF THE EQUIPMENT GROUNDING CONDUCTOR TO AND FROM OTHER DEVICES OR EQUIPMENT.

13. WIRE AND CONDUIT FOR EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND COUNT FROM THE SOURCE TO THE FINAL CONNECTION. SIZE AND COUNT SHALL BE AS INDICATED ON THE CIRCUIT HOMERUN, UNLESS OTHERWISE NOTED.

14. PROVIDE DIRECTORIES IN PANELBOARDS COMPLETE WITH LOAD TYPE, AND LOCATIONS.

15. PROVIDE STAINLESS STEEL CABLE/CONDUIT TAGS WITH STAINLESS STEEL STRAPS. EMBOSS TAG WITH PANEL AND CIRCUIT NUMBER TO EACH CONDUIT AND WIRE. THIS APPLIES TO ALL CONDUIT/WIRE TERMINATIONS, MANHOLES, HANDHOLES, TERMINATION BOXES, AND EXPOSED CONDUITS AT TERMINATIONS AND EVERY 100' OF EXPOSED CONDUIT.

16. PROVIDE COVER PLATES FOR ALL REMOVED ELECTRICAL SERVICE POINT OUTLETS, AND UNUSED EQUIPMENT REMOVED AS PART OF THIS PROJECT SCOPE.

17. ALL EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED.

18. THE USE OF NYLON CABLE TIES IS STRICTLY PROHIBITED EXCEPT FOR TRAINING OF CONDUCTORS WITHIN PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFER SWITCHES AND ELECTRICAL ENCLOSURES. NYLON CABLE TIES USED IN OTHER APPLICATIONS, OTHER THAN WITHIN ENCLOSURES, SHALL BE REMOVED REGARDLESS IF THEY ARE PLENUM RATED. MEANS OF SUPPORTING CONDUCTORS AND CONDUIT SHALL BE BY A METALLIC UL LISTED PRODUCT FOR SUPPORT OR THE LIKE.

19. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE AS SCHEDULED OR INDICATED ON DRAWINGS. WHERE JOB CONDITIONS REQUIRE MOUNTING HEIGHTS DIFFERENT FROM THOSE SHOWN (SPECIFICALLY IN MECHANICAL ROOMS AND PLATFORM AREAS) TO AVOID PIPES, EQUIPMENT, STRUCTURAL FEATURES, DUCTWORK, OR OTHER SUCH CONDITIONS, SUCH CHANGES IN MOUNTING HEIGHT, SHALL BE AS DIRECTED OR REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.

20. ROUTE UNDERGROUND CONDUIT THROUGH AREAS COVERED BY GRASS. ATTEMPT TO MINIMIZE PATH OF CONDUIT THROUGH CONCRETE AREAS.

21. THE CUTTING OF HOLES FOR PENETRATIONS THROUGH CONCRETE AND MASONRY ASSEMBLIES IN NEW AND EXISTING STRUCTURES SHALL BE EXECUTED WITH A DIAMOND CORE DRILL OR CONCRETE SAW. PNEUMATIC HAMMER, IMPACT ELECTRIC, HAND OR MANUAL HAMMER TYPE DRILLS ARE NOT ALLOWED, EXCEPT WHERE PERMITTED BY THE OWNER'S REPRESENTATIVE AS REQUIRED BY LIMITED WORKING SPACE.

22. PAINT ALL SURFACE MOUNTED CONDUITS TO MATCH ADJACENT SURFACES, UNLESS OTHERWISE NOTED.

23. THE TERM "CONDUIT" AS USED ON THIS PROJECT DOES NOT IMPLY A QUANTITY OF ONE SINGLE CONDUIT - IT COULD ALSO MEAN MORE THAN ONE CONDUIT. SEE PLANS FOR CONDUIT QUANTITIES.

24. MOUNTING HEIGHTS SHALL BE TO THE CENTER OF THE DEVICE INDICATED, UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF DEVICES SHALL BE INSTALLED PER THE DRAWINGS AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA-AG).

25. THE LATEST EFFECTIVE PUBLICATION OF THE FOLLOWING STANDARDS, CODES, ETC. FORM A PART OF THESE SPECIFICATIONS:

    SERVICE RULES AND REGULATIONS OF GREENVILLE UTILITIES COMMISSION
    AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
    ASTM INTERNATIONAL (ASTM).
    INTERNATIONAL BUILDING CODE (IBC 2015).
    INTERNATIONAL FIRE CODES (IFC).
    INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS(IEEE).
    NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
    NATIONAL FIRE PROTECTION ASSOCIATION.
    NATIONAL ELECTRICAL CODE (NEC 2020).
    UNDERWRITERS LABORATORIES (UL).
    ILLUMINATING ENGINEERING SOCIETY (IES).

26. PEDESTRIAN PATHWAY LIGHTING CRITERIA:
    A. IES G-1: SECURITY LIGHTING FOR PUBLIC ACCESS
    B. PEDESTRIAN PATHWAY:
       0.6 FC MINIMUM AVERAGE
       4:1 AVG/MIN RATIO

27. FLOOD ELEVATION:
    A. SERVICE EQUIPMENT LOCATED IN FLOOD ZONE X PER FEMA FLOOD MAP #3720468800K.
    B. ALL ELECTRICAL EQUIPMENT MUST BE KEPT OUT OF REGULATORY FLOOD ZONE PER FEMA FLOOD MAP #3720468800K. ELECTRICAL EQUIPMENT SHALL BE 2' ABOVE BASE FLOOD ELEVATION.

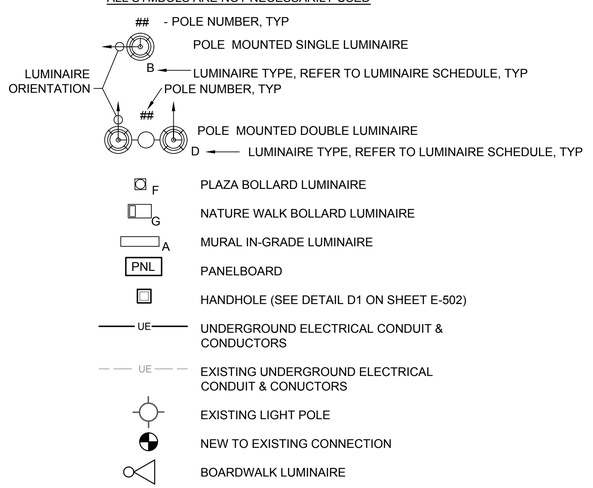
ABBREVIATIONS

ALL ABBREVIATIONS ARE NOT NECESSARILY USED

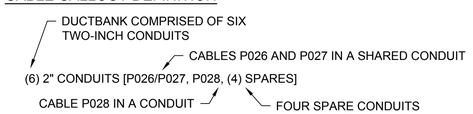
1P	SINGLE POLE, OR AS INDICATED
2P	TWO POLE, OR AS INDICATED
3P	THREE POLE, OR AS INDICATED
A	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AM	AMPERAGE METER/AMMETER
AS	AMPERE SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOARD
CAT NO.	CATALOG NUMBER
C, CND	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CIP	CAST IN PLACE
CKT	CIRCUIT
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CONC	CONCRETE
CONT	CONTINUATION
CONV	CONVEYOR
CPT	CURRENT POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DIA	DIAMETER
DWG	DRAWING
EC	EMPTY CONDUIT
EL, ELEV	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EX, EXIST	EXISTING, EXIST'G
G, GND	GROUND
GC	GROUND CHECK
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFM	GROUND FAULT MONITOR
HP	HORSE POWER
HTR	HEATER
Hz	HERTZ, CYCLES PER SECOND
INST	INSTRUMENT, INSTRUMENTATION
IT	INFORMATION TECHNOLOGY
JBOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KWH	KILOWATT HOUR
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MLO	MAIN LUG ONLY
MV	MEDIUM VOLTAGE
N/A	NOT APPLICABLE (N/A)
NC	NORMAL CLOSED
NEUT	NEUTRAL WIRE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMAL OPEN
NTS	NOT TO SCALE
OC	ON CENTER
P	POLE
PB	PULL BOX
PC	PHOTOCELL
PH,Ø	PHASE
PNL, PNBD	PANEL, PANELBOARD
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RECEPT	RECEPTACLE
REINF	REINFORCED
SC	SHORT CIRCUIT
SCH	SCHEDULE
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VOLT
VERT	VERTICAL
VM	VOLT METER
VS	VOLT SWITCH
W	WATT, WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER

LEGEND

ALL SYMBOLS ARE NOT NECESSARILY USED



CABLE CALLOUT DEFINITION



ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL NOTES, LEGEND & ABBREVIATIONS

Date: 2024-09-06 | Rev: REVNO
MAN Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (ID SHEET)
Designed by: RES | Det by: DLA | Cad by: DJS
Reviewed by: DAW
Submitted by: MARK PERELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EAST GROUP Engineering | Surveying | Technology
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 043830 ENGINEER DAVID A. WILLEY
2/28/2025
SEAL

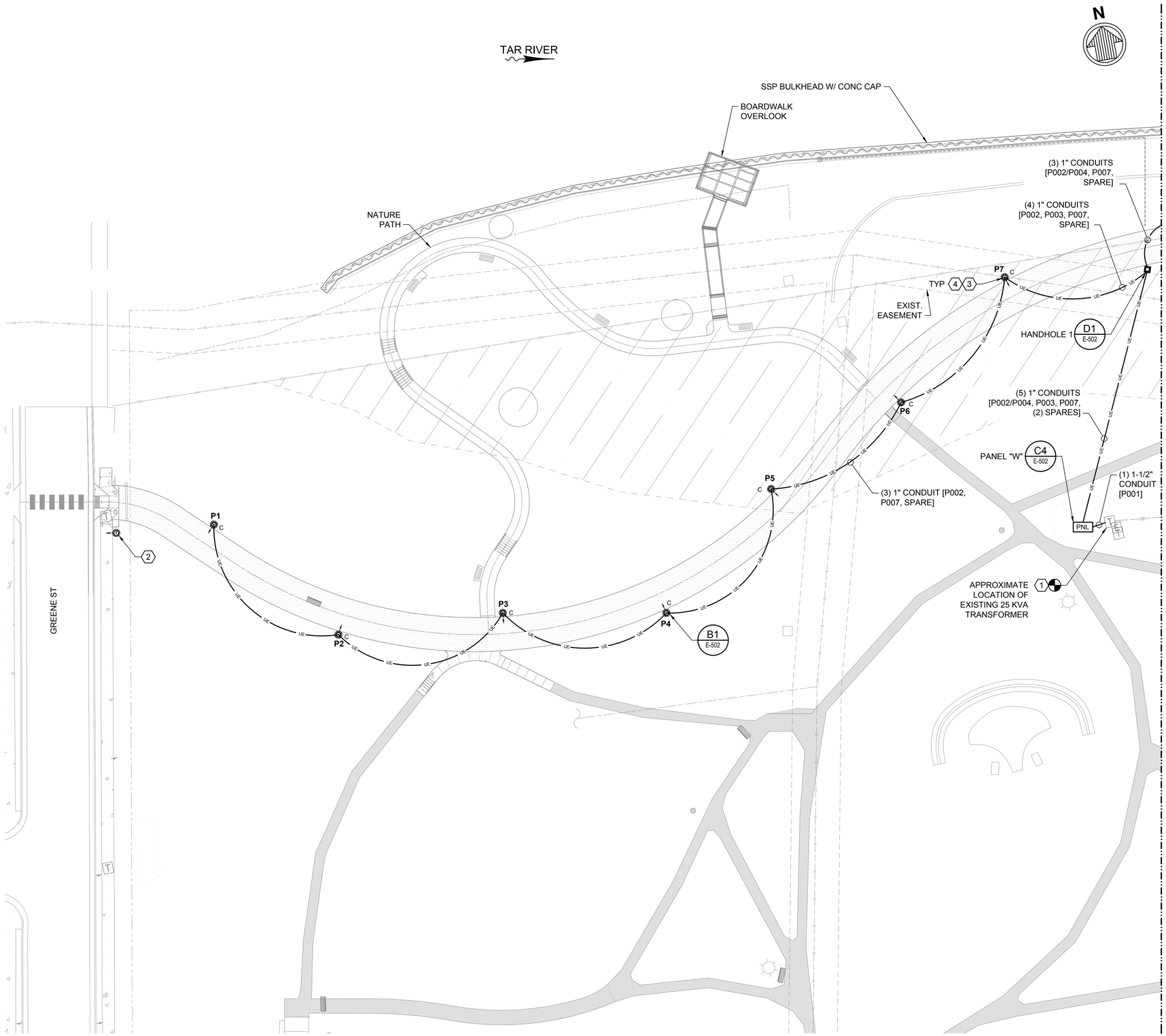
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Sheet Reference No.
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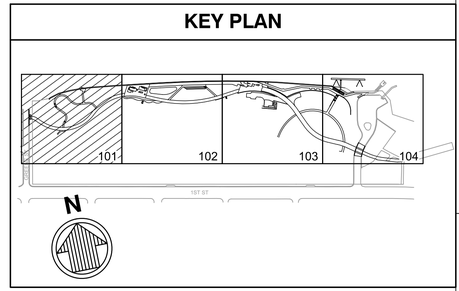
GENERAL NOTES

1. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZES.
2. ADDITIONAL BID ITEMS:
   - BID ADD #1:
     NO SCOPE OF WORK. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
   - BID ADD #2:
     SEE SHEET E-101A.
   - BID ADD #3:
     SEE SHEET E-101B.
3. BASE BID INCLUDES NATURE PATH AND BOARDWALK OVERLOOK CONDUIT (WITH PULL STRING) UP TO SITE LIMITS OF BID ADD #2. REFER TO SHEET E-101A AND E-101B FOR ADDITIONAL INFORMATION AND CONDUIT REQUIREMENTS.
4. REFER TO D-101 FOR DEMOLITION PLAN.

(#) KEY NOTES:

1. COORDINATE WITH GREENVILLE UTILITIES COMMISSION FOR SERVICE ENTRANCE TERMINATION AND SERVICE STANDARDS.
2. RE-INSTALL EXISTING POLE AND LUMINAIRE SALVAGED BY OWNER DURING DEMOLITION PHASE. PROVIDE POLE FOUNDATION. CLEAN LUMINAIRE FOR REUSE BEFORE REINSTALLATION. RE-TERMINATE EXISTING CONDUCTORS. COORDINATE WITH OWNER FOR REUSE OF EXISTING POLE AND LUMINAIRE.
3. LOCATE EDGE OF POLE FOUNDATION MIN 2 FEET CLEAR OF SIDEWALK. ADJUST LOCATION AS NEEDED TO AVOID EXISTING UNDERGROUND UTILITIES AND OR STRUCTURAL ELEMENTS. NOTIFY ENGINEER IF POLE REQUIRES MOVEMENT OF OVER 10 FEET.
4. PROVIDE SPARE CONDUIT BETWEEN PANEL "W" AND LIGHT POLES P1 - P7. COMMS EQUIPMENT AND CABLING BY CITY.

KEY PLAN



20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
1 OF 4 (BASE BID)

Designed by: RES
Drawn by: DLA
Cad by: DJS
Reviewed by: DAW
Submitted by: MARSHALL PRELLO
MOFFATT & NICHOL

Date: 2024-09-06
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Rev. REVNO

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 040830 ENGINEER DAVID A. WILLIS
Digitally signed by David A Willis Jr
2/28/2025

SEAL

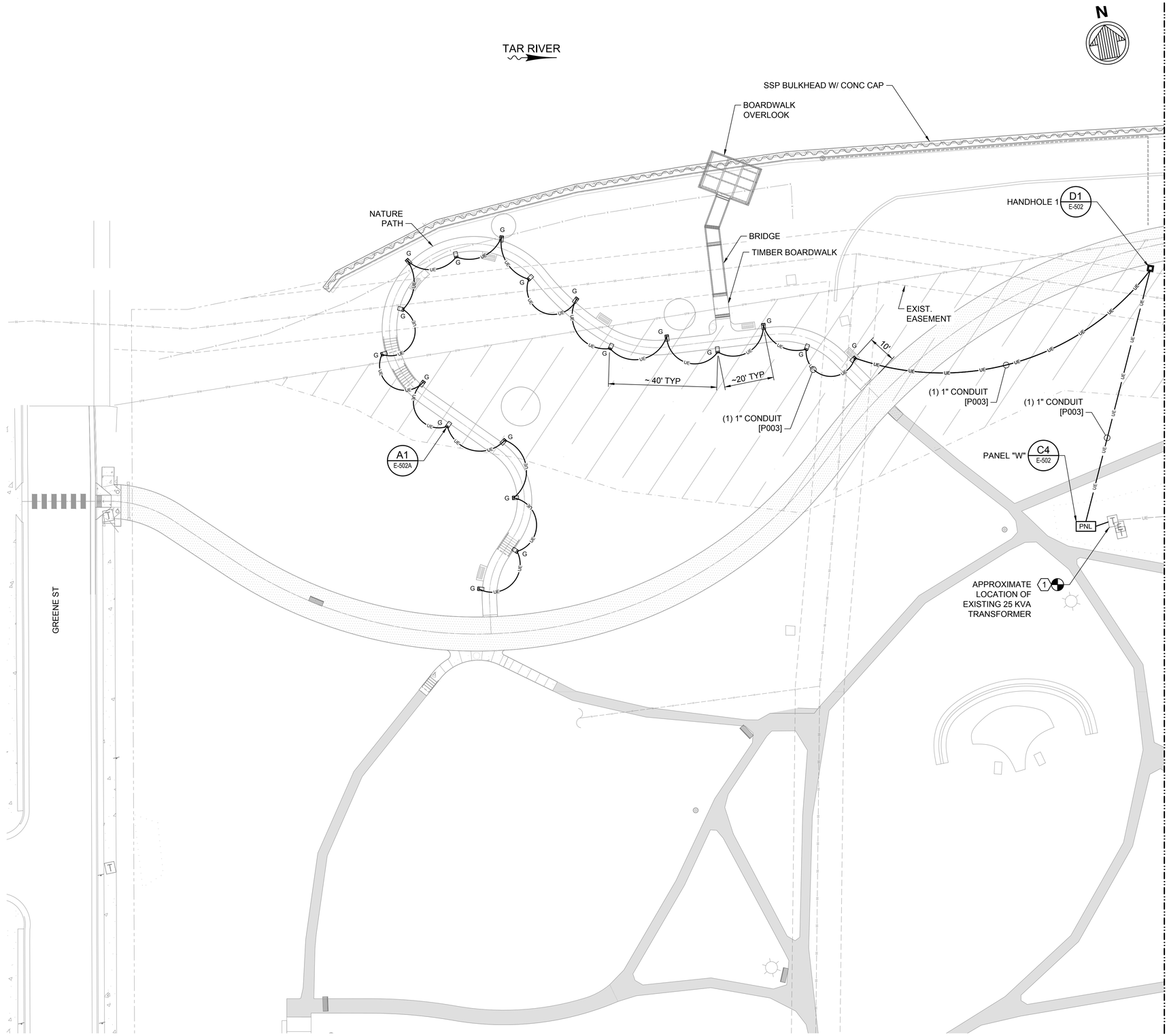
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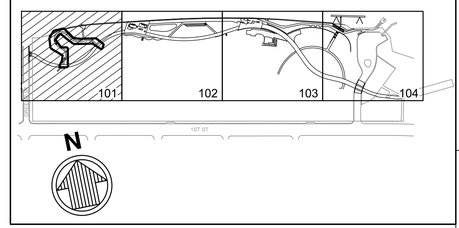
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GENERAL NOTES

1. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZES.

KEY PLAN



20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
1 OF 4 (BID ADD 2)

Designed by: RES
Dwn by: DLA
Ckd by: DJS
Reviewed by: DAW
Date: 2024-07-12
Rev: REVNO
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: MARIBETH BELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 040230 ENGINEER DAVID A. WITT
Digitally signed by David A Witt Jr
2/28/2025

SEAL

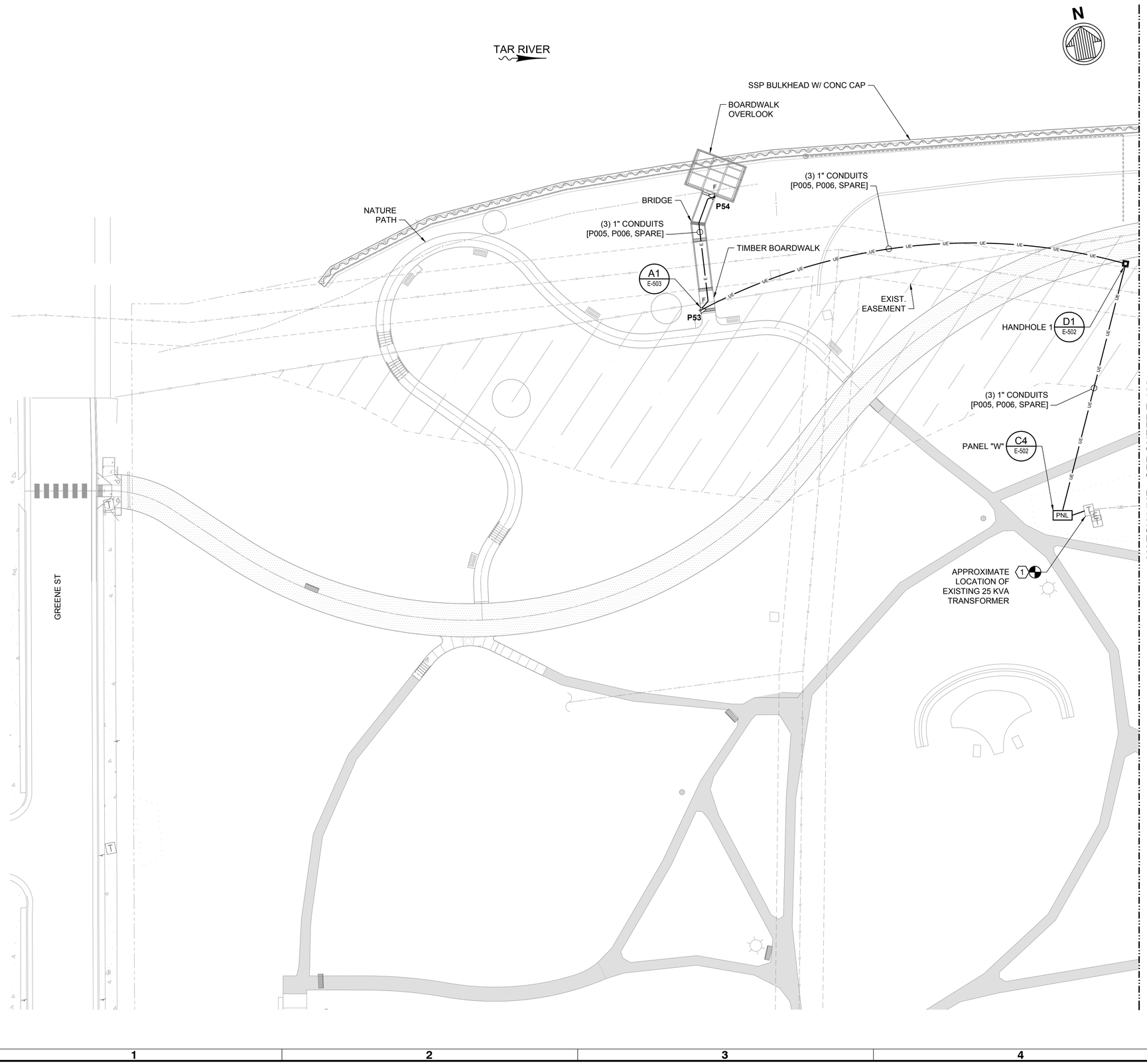
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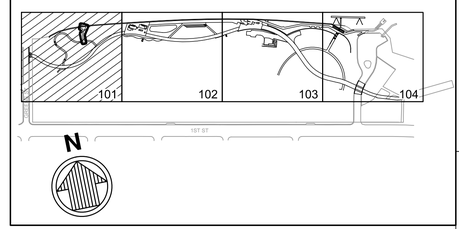
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GENERAL NOTES

1. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZES.

KEY PLAN



20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
1 OF 4 (BID ADD 3)

Designed by: RES
Drawn by: DLA
Coord by: DJS
Reviewed by: DAW
Submitted by: MARIBETH BELLO
Date: 2024-07-12
Rev: REVNO
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 040230 ENGINEER DAVID A. WITT
Digitally signed by David A Witt Jr
2/28/2025

SEAL

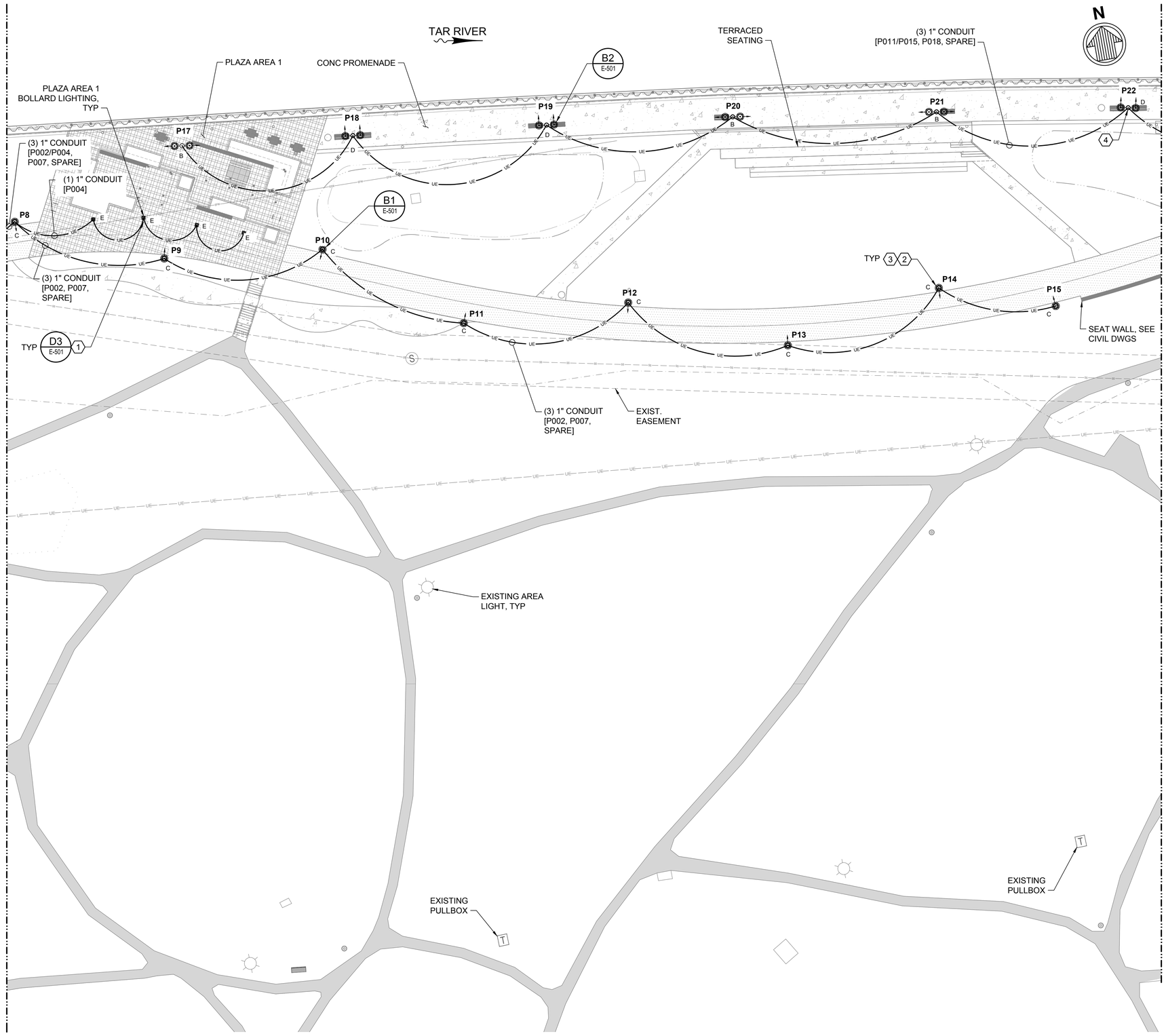
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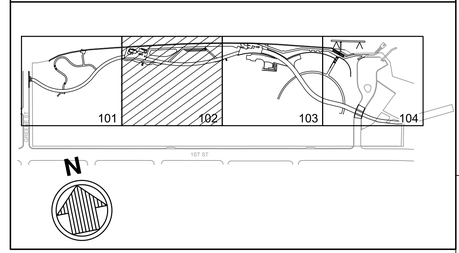
GENERAL NOTES

1. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZES.

(#) KEY NOTES:

1. PROVIDE BOLLARD LIGHTING SPACED EQUALLY ALONG EDGE OF PLAZA AREA. REFER TO E-605 LUMINAIRE SCHEDULE FOR EXACT LUMINAIRE TYPE.
2. LOCATE EDGE OF POLE FOUNDATION MIN 2 FEET CLEAR OF SIDEWALK. ADJUST LOCATION AS NEEDED TO AVOID EXISTING UNDERGROUND UTILITIES AND OR STRUCTURAL ELEMENTS. NOTIFY ENGINEER IF POLE REQUIRES MOVEMENT OF OVER 10 FEET.
3. PROVIDE SPARE CONDUIT BETWEEN PANEL 'W' AND LIGHT POLES P8 - P15. COMMS EQUIPMENT AND CABLING BY CITY.
4. PROVIDE SPARE CONDUIT BETWEEN PANEL 'E' AND LIGHT POLES P17 TO P22. COMMUNICATIONS EQUIPMENT & CABLING BY CITY.

KEY PLAN



20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
2 OF 4

Designed by: RES
Drawn by: DLA
Checked by: DJS
Reviewed by: DAW
Submitted by: MARK PERRELLO
Date: 2024-09-06
Rev. REVNO
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 040341 ENGINEER DAVID A. WILLIS
SEAL
2/28/2025

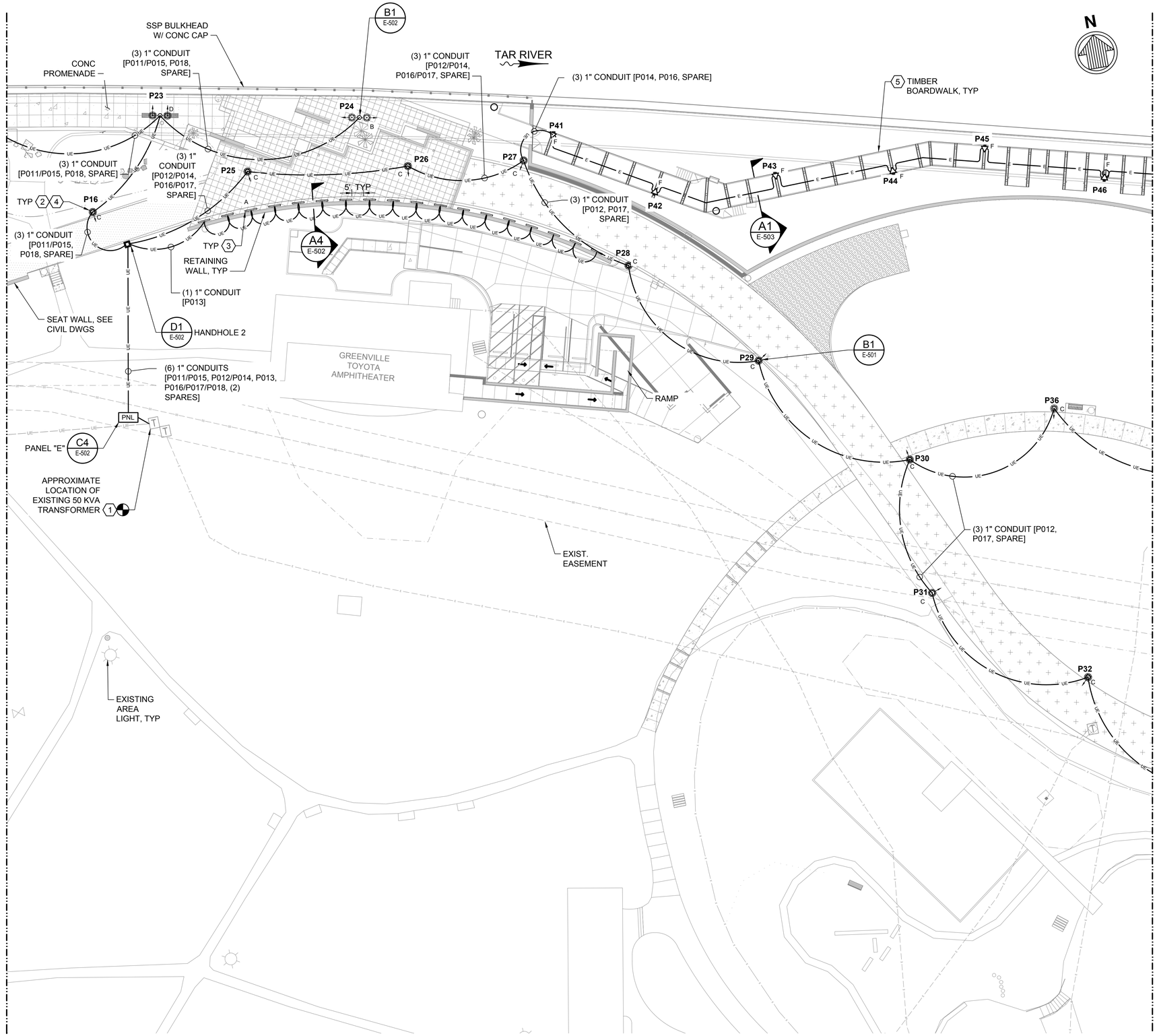
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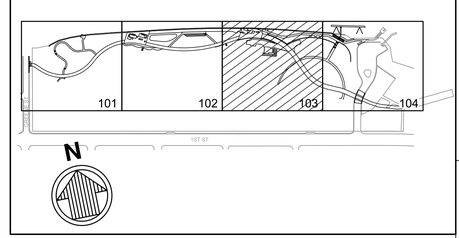
GENERAL NOTES:

1. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZES.

(#) KEY NOTES:

1. COORDINATE WITH GREENVILLE UTILITIES COMMISSION FOR SERVICE ENTRANCE TERMINATION AND SERVICE STANDARDS.
2. PROVIDE SPARE CONDUIT BETWEEN PANEL 'E' AND LIGHT POLES P16 - P40. COMMS EQUIPMENT AND CABLING BY CITY.
3. PROVIDE IN-GRADE STRIP LIGHTING SPACED EQUALLY ALONG RETAINING WALL EDGE. REFER TO E-602 FOR ADDITIONAL INFORMATION.
4. LOCATE EDGE OF POLE FOUNDATION MIN 2 FEET CLEAR OF EDGE OF SIDEWALK. ADJUST LOCATION AS NEEDED TO AVOID EXISTING UNDERGROUND UTILITIES AND/OR STRUCTURAL ELEMENTS. NOTIFY ENGINEER IF POLE REQUIRES MOVEMENT OVER 10'.
5. PROVIDE SPARE CONDUIT BETWEEN PANEL 'E' AND LIGHT POLES P41 - P52. COMMS EQUIPMENT AND CABLING BY CITY

KEY PLAN



20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON
& ESPLANADE PROJECT

ELECTRICAL PLAN
3 OF 4

Designed by: RES
Drawn by: DLA
2nd by: DJS
Reviewed by: DAW
Submitted by: MARK PERGELLO
MOFFATT & NICHOL

Date: 2024-09-06
Rev. REVNO
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

moffatt & nichol

334 EVANS ST.
GREENVILLE, NC 27834
252-758-3745
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

THE EAST GROUP
Engineering
Surveying
Technology

NORTH CAROLINA PROFESSIONAL SEAL 042230 ENGINEER DAVID A. WILLIS
David A Willis V
2/28/2025
SEAL

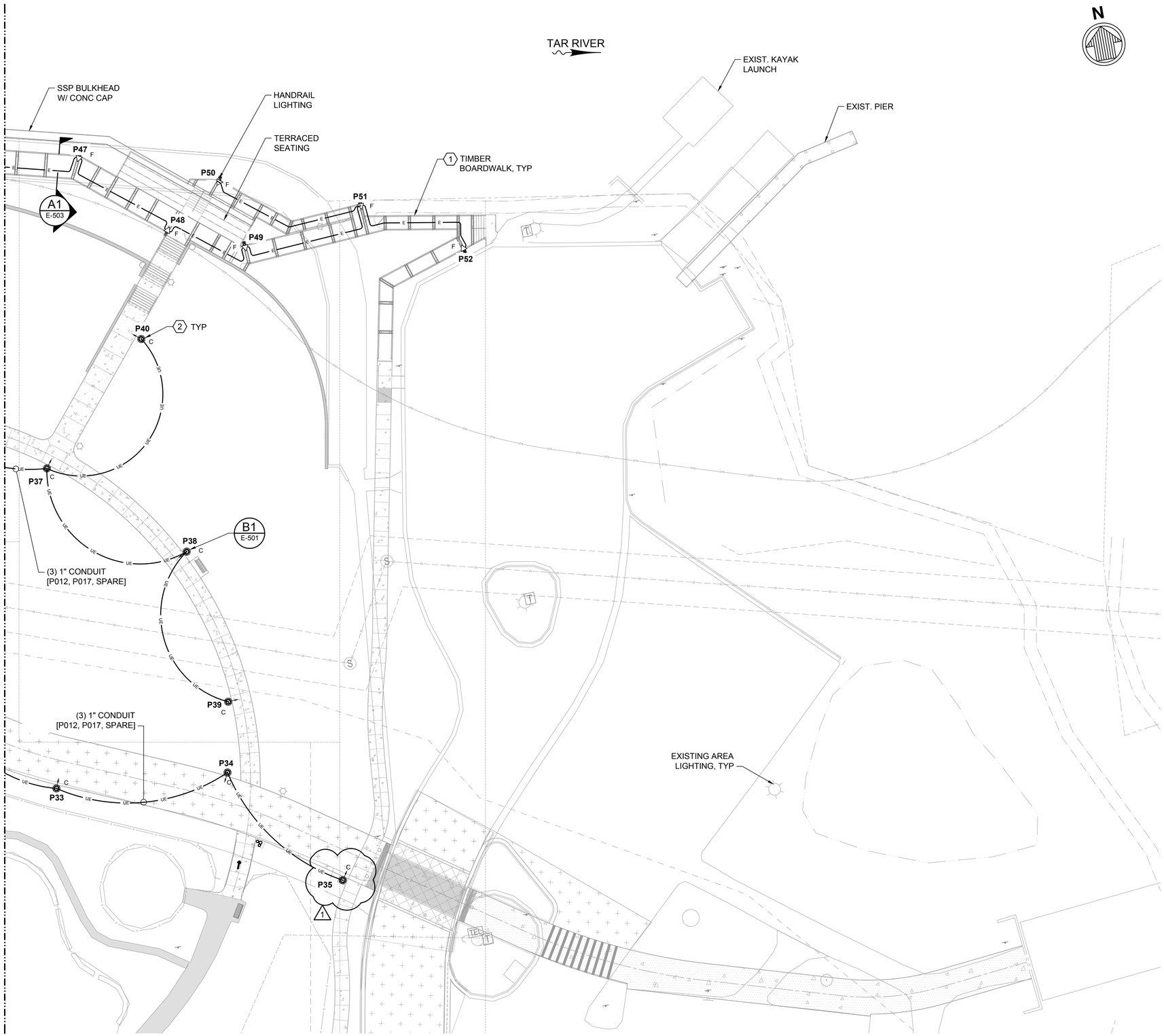
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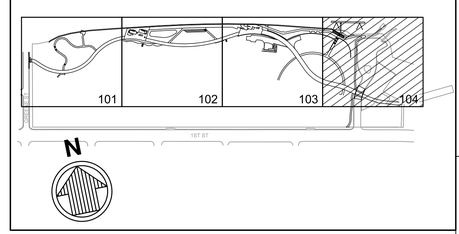
GENERAL NOTES:

1. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR SIZES.

(#) KEY NOTES:

1. PROVIDE SPARE CONDUIT BETWEEN PANEL 'E' AND LIGHT POLES P37 - P40 AND P33 - P35. COMMS EQUIPMENT AND CABLING BY CITY.
2. LOCATE EDGE OF POLE FOUNDATION MIN 2 FEET CLEAR OF EDGE OF SIDEWALK. ADJUST LOCATION AS NEEDED TO AVOID EXISTING UNDERGROUND UTILITIES AND/OR STRUCTURAL ELEMENTS. NOTIFY ENGINEER IF POLE REQUIRES MOVEMENT OVER 10'.

KEY PLAN



20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr
1	ADDENDUM NO. 1	2/28/25	DAW

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN 4 OF 4

Designed by: RES
Drawn by: DLA
Chk'd by: DJS
Reviewed by: DAW
Submitted by: MARK PERELLO
Date: 2024-09-06
Rev. 1
M&N Project No. 221315.02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 042430 ENGINEER DAVID A. WILLIS
Docusigned by: David A Willis Jr
SEAL
2/28/2025

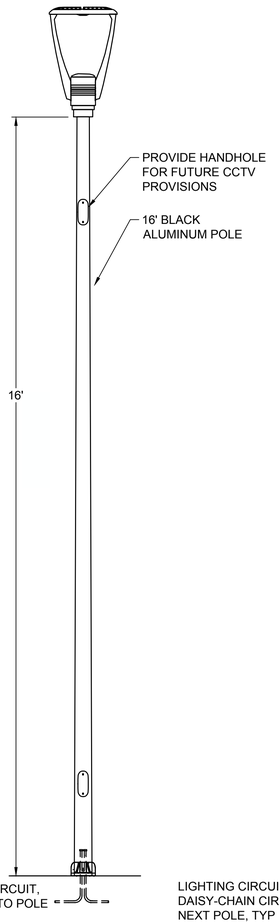
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Sheet Reference No.
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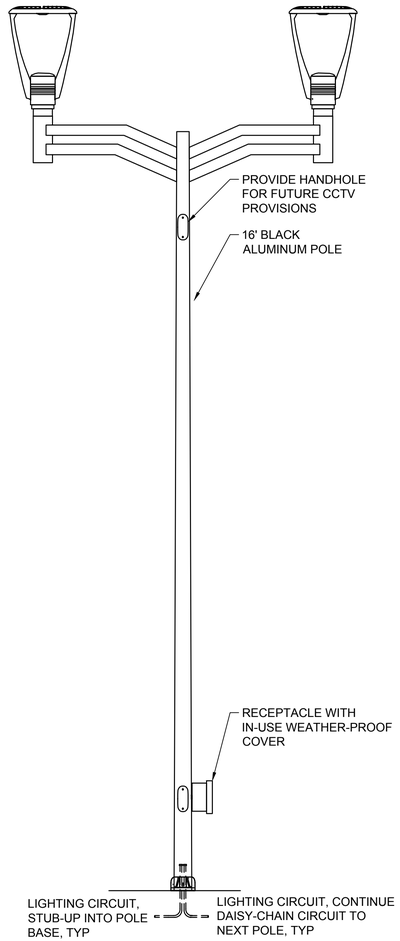
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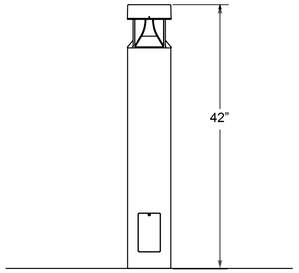
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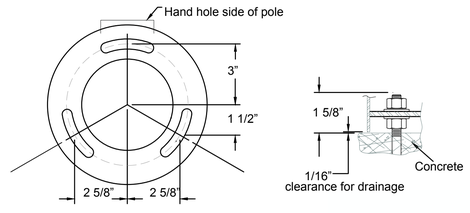
B1 E-501 DETAIL - SINGLE LUIMINAIRE
SCALE: NTS



B2 E-501 DETAIL - DOUBLE LUMINAIRE
SCALE: NTS

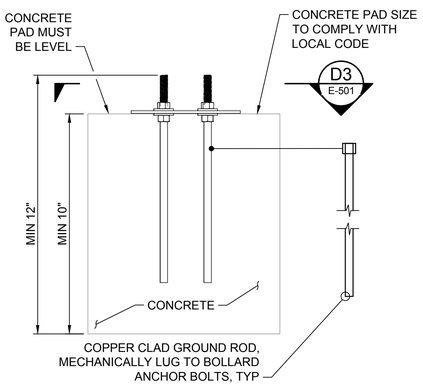


MOUNTING INFORMATION:
NOTES:
1. BOLLARD ORIENTATION IS CRITICAL, ROD AND HAND HOLE LOCATIONS ARE CRITICAL.
2. LOCATE SINGLE BOLT AND HAND HOLE LOCATION.
3. ADEQUATE DRAINAGE MUST BE PROVIDED IN CONCRETE FOUNDATION.
4. CONDUIT SHOULD BE STUBBED UP ABOVE THE CONCRETE FOOTING.



USE CAUTION WHEN SETTING ANCHOR BOLTS. BOLTS MUST BE VERTICALLY STRAIGHT AND CENTERED ON DIMENSIONS SHOWN.

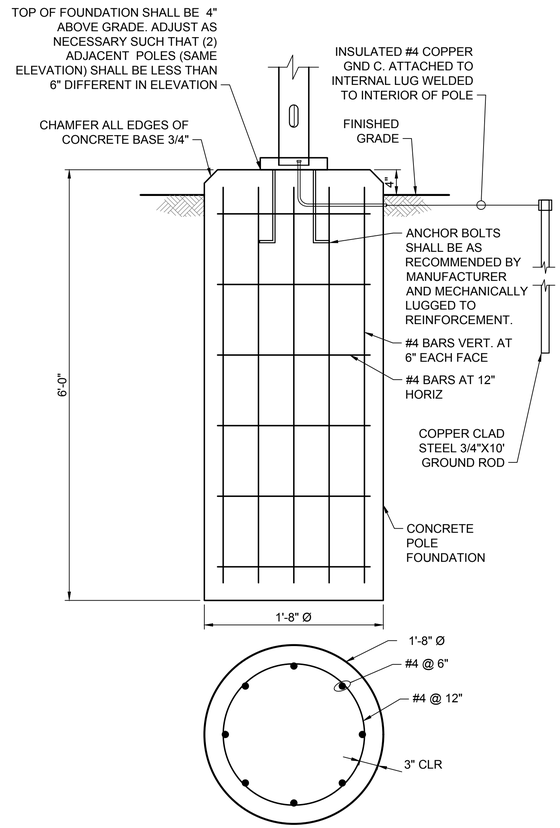
D3 E-501 DETAIL - LIGHTED BOLLARD
SCALE: NTS



A3 E-501 DETAIL - BOLLARD FOUNDATION
SCALE: 1"=1'-0"

GENERAL NOTES:

1. LATERAL LOAD DESIGN CRITERIA PER ASCE 7-10:
2. DESIGN WIND SPEED: 123 MPH
3. RISK CATAGORY: II
4. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED POLE CALCULATION BY NORTH CAROLINA REGISTERED STRUCTURAL PE ACCOUNTING FOR TOTAL POLE LUMINAIRE, ARM AND TENSION EFFECTIVE PROJECTED AREA FOR ENGINEER APPROVAL.
5. LIGHT POLE FOUNDATION IS FOR PERMITTING PURPOSES ONLY AND INTENDED TO SHOW GENERAL INSTALLATION REQUIREMENTS. LIGHT POLE FOUNDATIONS SHALL BE DESIGNED BY LIGHT POLE MANUFACTURER, SIGNED AND SEALED BY A NORTH CAROLINA REGISTERED STRUCTURAL PE AND SUBMITTED TO ENGINEER FOR REVIEW.



A5 E-501 DETAIL - POLE FOUNDATION
SCALE: 1"=1'-0"

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL DETAILS 1 OF 3

Date: 2024-09-06 | Rev: REVNO
MAN Project No. 221315.02 | Drawing code:
Drawing Scale: AS SHOWN | Plot scale: 1:1 (D SHEET)
Designed by: RES | Drawn by: DLA | Cad by: DJS
Reviewed by: DAW
Submitted by: MARK PERRELLO, MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO.: F-0105

THE EARTH GROUP
324 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0266
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 044830 ENGINEER DAVID A. WILLIS
SEAL
2/28/2025

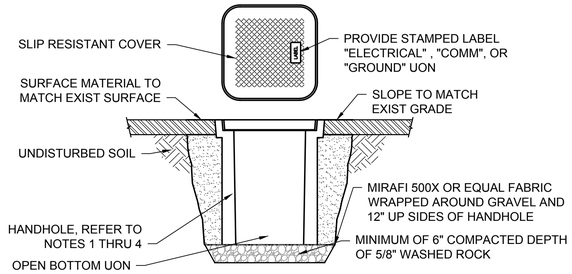
SEAL

Sheet Reference No.
E-501
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DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

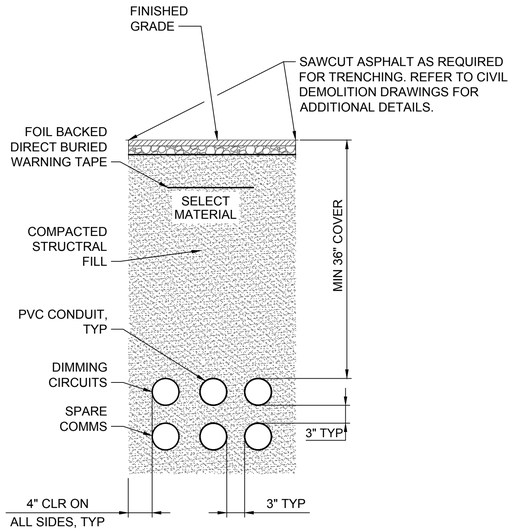
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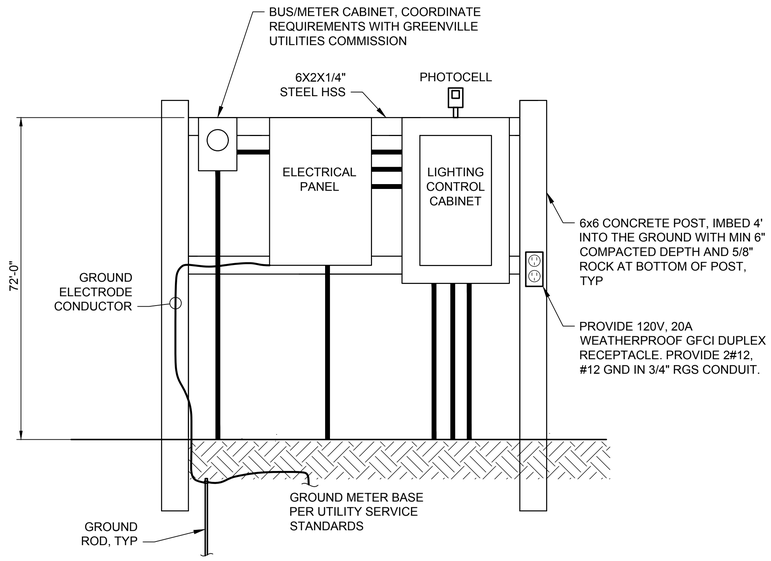
NOTES:

1. PROVIDE MINIMUM 24" X 24" X 12", UON POLYMER CONCRETE, QUAZITE STYLE HANDHOLE THAT MEETS TIER 15 RATING UON. PROVIDE STAINLESS STEEL 316L WASHERS, CAPTIVE HEAD BOLTS, AND PULL SLOTS.
2. INSTALL HANDHOLE AS SHOWN AND PER MANUFACTURER RECOMMENDATIONS.
3. PROVIDE CONDUIT TAGS WITH CABLE SCHEDULE NUMBER ON EACH CONDUIT AND WIRE ENTERING AND LEAVING HANDHOLE.
4. REFER TO ELECTRICAL LEGEND FOR HANDHOLE MINIMUM SIZES. ALL SIZES CALLED OUT IN ELECTRICAL SHEETS ARE INSIDE CLEAR DIMENSIONS,

D1 / E-101 — DETAIL - ELECTRICAL HANDHOLE
SCALE: NTS
E-103



D3 / E-101 — SECTION - TYPICAL DUCTBANK
SCALE: NTS
E-101

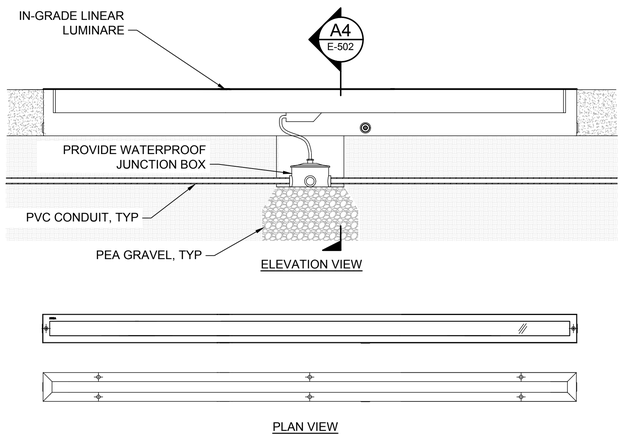


ELEVATION

NOTES

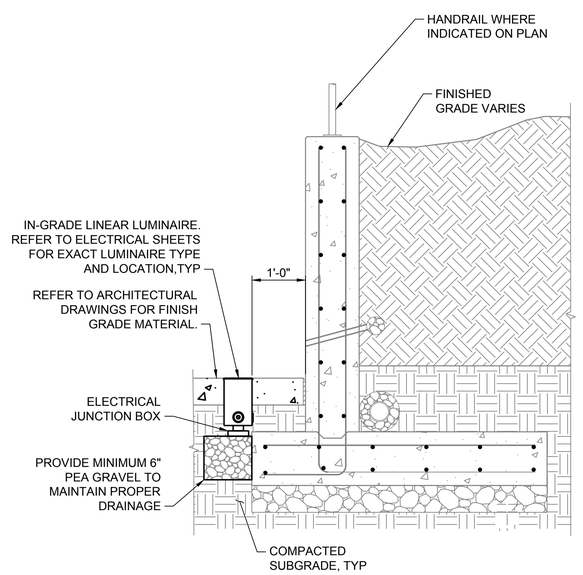
1. PROVIDE GROUND BUSHINGS ON ALL CONDUITS.
2. PROVIDE CONDUIT AND CONDUCTORS FOR ALL DEVICES SHOWN ON THIS DETAIL. REFER TO SINGLE LINE AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
3. TRANSITION FROM PVC TO RGS CONDUIT UNDERGROUND PRIOR TO CONDUIT ELBOW.
4. CONNECT STRUCTURAL AND ELECTRICAL EQUIPMENT TO AT LEAST (2) GROUND RODS WITH 6' SEPARATION.

C4 / E-101 — DETAIL - ELECTRICAL EQUIPMENT RACK (TYPICAL)
SCALE: NTS
E-103



PLAN VIEW

A3 / E-103 — DETAIL - IN-GRADE MURAL LUMINAIRE
SCALE: NTS



A4 / E-103 — MURAL LUMINAIRE INSTALLATION
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

No.	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL DETAILS 2 OF 3 (BASE BID)

Date: 2024-09-06 | Rev: REVNO
Designed by: RES | Drawn by: DLA | Cad by: DJS
M&N Project No. 221315-02
Drawing code:
Reviewed by: DAW
Submitted by: MARK PIRRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 919-781-4626 NC FIRM LICENSE NO. F-0105
moffatt & nichol
324 EVANS ST GREENVILLE, NC 27834 252-752-4135
THE EAST GROUP Engineering Architecture Surveying
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL Digitally signed by: David A. Wills DAVID A. WILLS 2/28/2025
SEAL

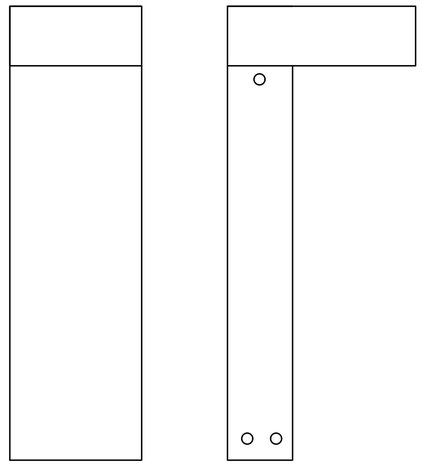
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Sheet Reference No.
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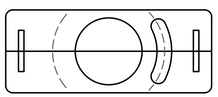
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



MOUNTING PLATE

A1
E-101
E-103

DETAIL - NATURE WALK LUMINAIRE
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Mark	Description	Date	Appr

GREENVILLE TOWN COMMON
& ESPLANADE PROJECT

ELECTRICAL DETAILS 2 OF 3
(BID ADD 2)

Date: 2024-07-12
Rev: REVNO
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

Designed by: RES
Drawn by: DLA
Chkd by: DJS
Reviewed by: DAW
Submitted by: MARK PIRRELLO MOFFATT & NICHOL

moffatt & nichol
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NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Engineering : Surveying : Architecture
324 EVANS ST
GREENVILLE, NC 27834
252-752-4135
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL
Digitally signed by David A. Willis Jr
DAVID A. WILLIS JR
SEAL
2/28/2025

SEAL

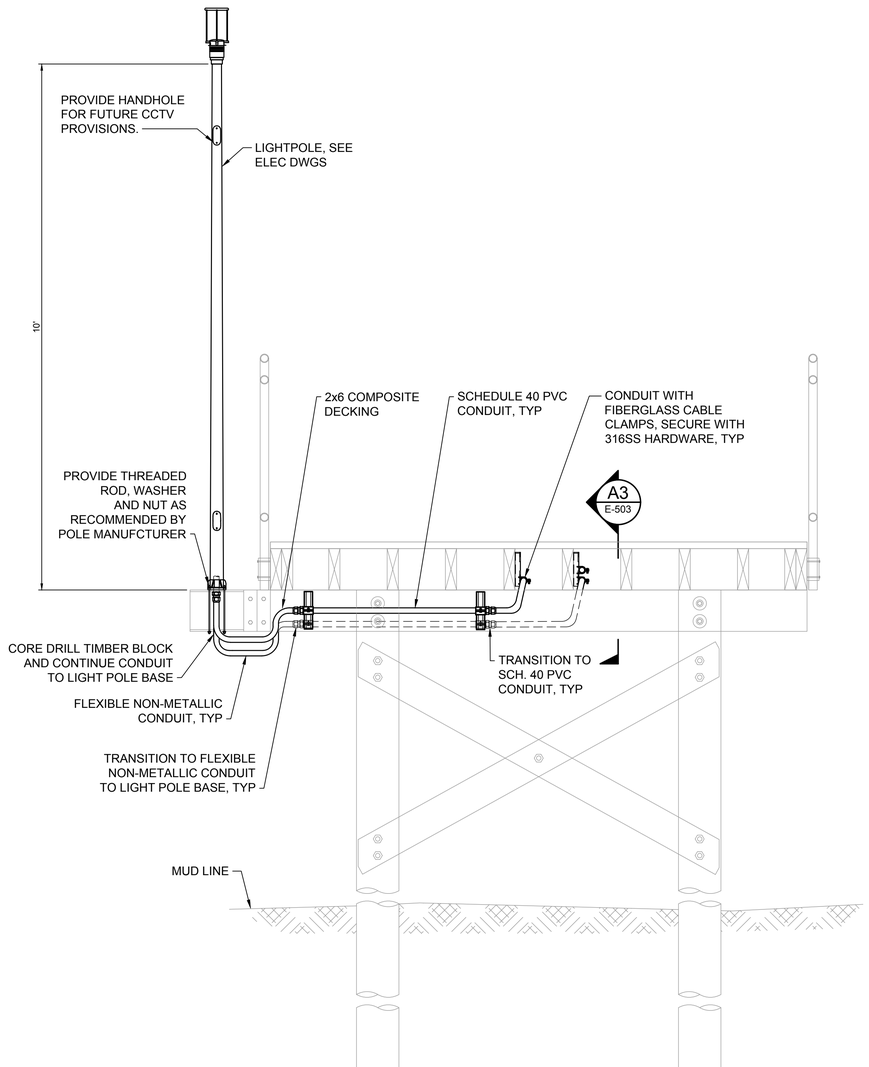
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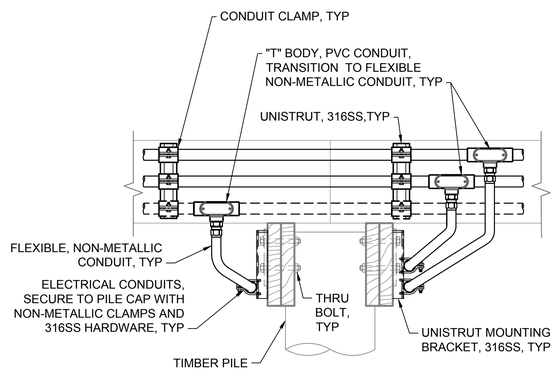
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GENERAL NOTES:

1. PROVIDE 3/4" CONDUIT (AS SPECIFIED) FROM CONDUIT T-BODY TO LUMINAIRE POLE.



A1 / E-101 — DETAIL - BOARDWALK LUMINAIRE
SCALE: NTS
E-103



A3 / E-103 — SECTION - CONDUIT BELOW DECK
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL DETAILS 3 OF 3 (BID ADD 3)

Designed by: RES
Drawn by: DLA
Checked by: DJS
Reviewed by: DAW
Submitted by: MARK PIRRELLO MOFFATT & NICHOL
Date: 2024-07-12
Rev: REVNO
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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moffatt & nichol

324 EVANS ST
GREENVILLE, NC 27834
252-752-4135
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427
THE EAST GROUP

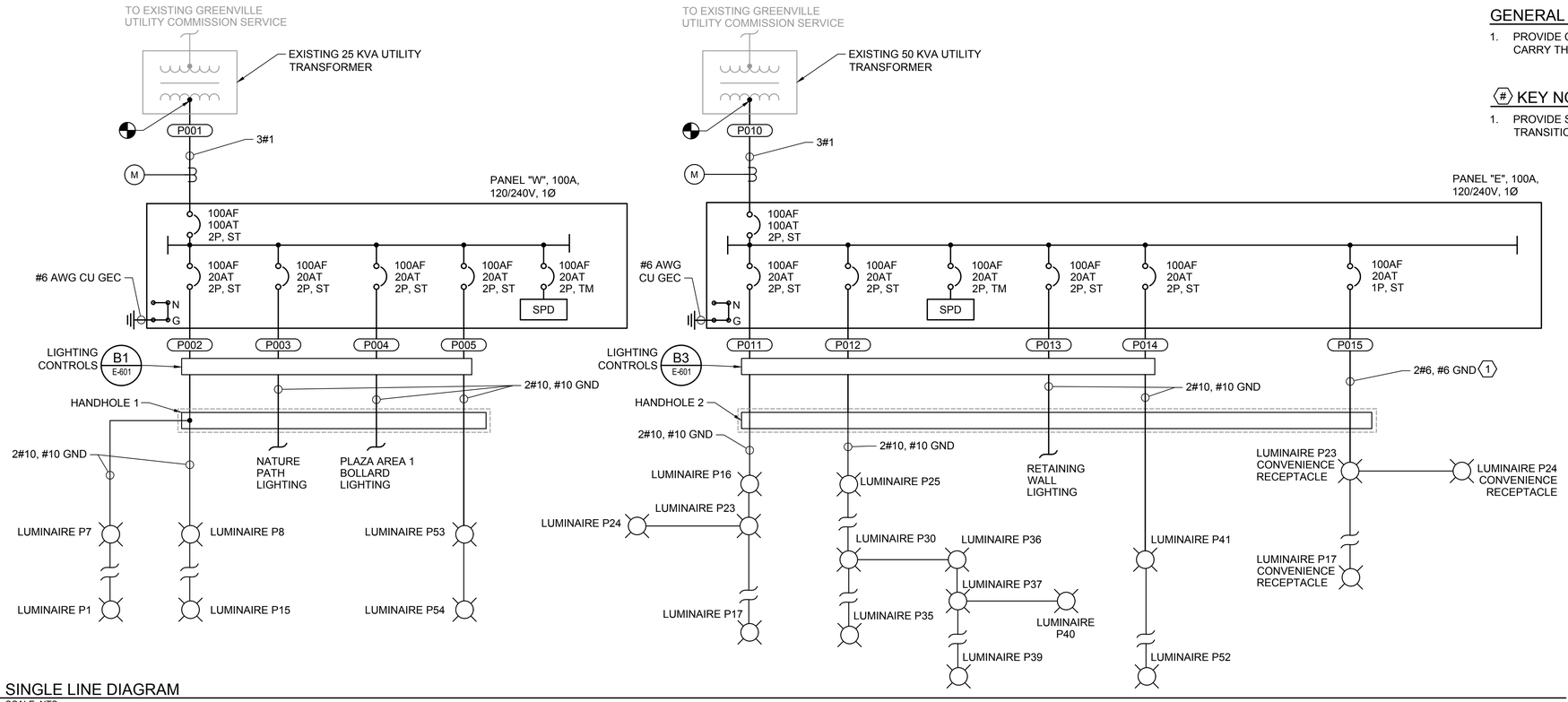
NORTH CAROLINA PROFESSIONAL SEAL 037... DAVID A. WILLIS
SEAL
2/28/2025

SEAL

Sheet Reference No.
E-503
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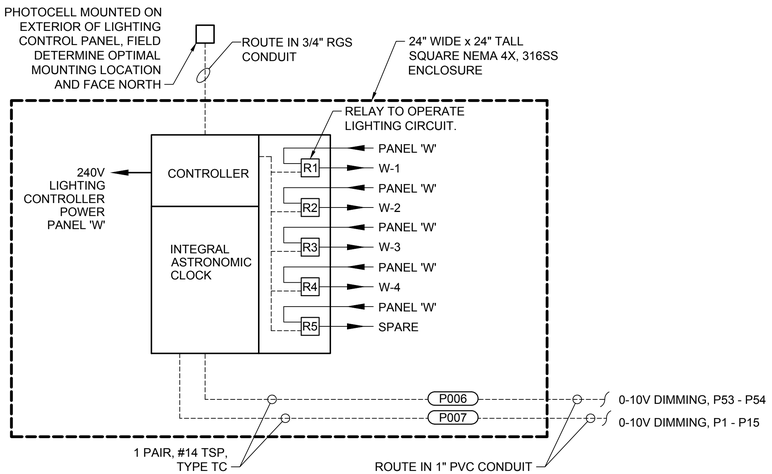
C1 E-601 SINGLE LINE DIAGRAM
SCALE: NTS

GENERAL NOTES:

1. PROVIDE CONDUCTOR SIZE INDICATED ON SINGLE LINE AND CARRY THROUGH THE WHOLE CIRCUIT, UON.

(#) KEY NOTES:

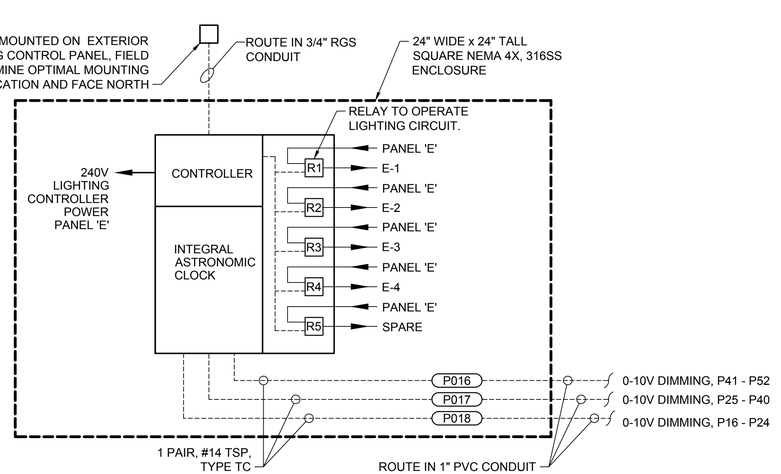
1. PROVIDE SPLICE AT EACH CONVENIENCE RECEPTACLE AND TRANSITION TO 2#12, #12 GND FOR RECEPTACLE TERMINATION.



OVERALL OPERATION NOTES:

1. ALL LIGHTING SHALL OPERATE VIA PHOTOCELL.
2. EACH RELAY INDICATED SHALL CONTROL EACH 1 PHASE CIRCUIT INDICATED. PROVIDE THE REQUIRED RELAYS TO OPERATE EACH CIRCUIT INDICATED.

A1 E-601 LIGHTING CONTROL DIAGRAM - WEST
SCALE: NTS



OVERALL OPERATION NOTES:

1. ALL LIGHTING SHALL OPERATE VIA PHOTOCELL.
2. EACH RELAY INDICATED SHALL CONTROL EACH 1 PHASE CIRCUIT INDICATED. PROVIDE THE REQUIRED RELAYS TO OPERATE EACH CIRCUIT INDICATED.

A3 E-601 LIGHTING CONTROL DIAGRAM - EAST
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SINGLE LINE DIAGRAMS & SCHEDULES

Date: 2024-09-06 | Rev: REVNO
MAN Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Designed by: RES
Drawn by: DLA
Checked by: DJS
Reviewed by: DAW
Submitted by: MARK PERELLO
Drawing: MOFFATT & NICHOL
Plot date: 2/7/2025 2:01 PM by DAUCOIN

moffatt & nichol
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919-781-4626
NC FIRM LICENSE NO.: F-0105

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252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-427

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SEAL

Sheet Reference No.
E-601
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POLE/LUMINAIRE #	NORTHING	EASTING
P1	683278.4250'	2483372.682'
P2	683223.8996'	2483413.9357'
P3	683219.2993'	2483482.0153'
P4	683205.9890'	2483547.9700'
P5	683247.4840'	2483600.2529'
P6	683271.8569'	2483659.7328'
P7	683313.9571'	2483711.6507'
P8	683322.7997'	2483782.489'
P9	683295.7871'	2483839.8903'
P10	683286.6453'	2483904.5713'
P11	683245.2992'	2483955.6140'
P12	683240.2113'	2484023.7229'
P13	683209.9358'	2484084.6960'
P14	683220.8346'	2484150.3690'
P15	683204.0251'	2484196.1229'
P16	683229.6165'	2484280.3901'
P17	683339.8670'	2483856.2725'
P18	683330.0836'	2483926.0895'
P19	683318.5851'	2484005.1679'
P20	683306.7345'	2484081.0309'
P21	683292.1568'	2484163.7692'
P23	683278.2156'	2484241.5333'
P23	683263.3258'	2484315.6799'
P24	683246.1844'	2484396.5988'
P25	683233.3820'	2484346.6910'
P26	683222.4650'	2484412.3650'
P27	683215.2461'	2484459.9031'
P28	683163.8774'	2484493.9664'
P29	683114.5468'	2484539.0713'
P30	683061.8852'	2484592.4920'
P31	683005.7990'	2484590.6310'
P32	682958.7519'	2484647.1227'
P33	682902.7559'	2484686.7211'
P34	682895.2736'	2484757.0390'
P35	682837.0764'	2484802.3065'
P36	683070.8619'	2484655.3988'
P37	683032.6272'	2484708.8918'
P38	682987.6931'	2484758.5172'
P39	682923.7660'	2484763.0809'
P40	683077.1412'	2484757.5028'

C1 E-602 LUMINAIRE & POLE NORTHING-EASTING LOCATIONS
SCALE: NTS

LUMINAIRE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NO.	POLE NO.	HEIGHT	WATTS	VOLTAGE	NOTES
A	BEGA	B84161-K3	N/A	0	47.4	240V	IN-GRADE LUMINAIRE
B	LUMINIS	(2) MA20-L1L40-LD4-30K-MVOLT-PT5-BKT	PRS5-16FT-TH226-MA2-PM-P2-MVOLT-CGF-BKT	16'	72	240V	DOUBLE LUMINAIRE
C	LUMINIS	MA20-L1L40-LD2-30K-MVOLT-PT4-BKT	PRS4-16FT-TH226-MA2-PT-P1-MVOLT-BKT	16'	36	240V	
D	LUMINIS	(2) MA20-L1L40-LD3-30K-MVOLT-PT5-BKT	PRS5-16FT-TH226-MA2-PM-P2-MVOLT-CGF-BKT	16'	72	240V	DOUBLE LUMINAIRE
E	SELUX	IBL-3.5-1Q-30-BK-UNV	N/A	3.5'	8	240V	
F	LUMINIS	EC600-L1L10-LD3-30K-MVOLT-PT4-PMS-BKT	PRS4-10FT-TH125-EC6-PMS-P1-MVOLT-BKT	10'	17	240V	
G	PERFORMANCE IN LIGHTING	M10BOL-600-10-T2-3K-IR-UNV-NA	N/A	26"	10	240V	ORIENT PERPENDICULAR TO NATURE PATH

D3 E-602 LUMINAIRE & POLE SCHEDULE
SCALE: NTS

PANELBOARD:	E													
VOLTAGE:	120/240	BUS RATING (A):	100 A					ENCLOSURE:	NEMA 3R					
PHASE:	1	MAIN OC DEVICE:	100 A MAIN BREAKER					MOUNTING:	RACK MOUNTED					
WIRE:	3 + GND	INTERRUPTING RATING (KAIC):				14		LOCATION:	ELECTRICAL RACK					
NEUTRAL:	YES	SERVICE ENTRANCE LABEL:				YES								

CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCP			OCP		CONNECTED LOAD (VA)				DESCRIPTION	CKT NO.
		LTS	PED	MECH	MISC	AMPS	P		AMPS	P	LTS	PED	MECH	MISC		
1	PATHWAY LUMINAIRES P16-P24	405				20	2	A	20	2	360				PATHWAY LUMINAIRES P25-P40	2
		405						B			360					
3	PATHWAY LUMINAIRES P41-P52	128				20	2	A	20	2	191				RETAINING WALL LUMINAIRES	4
		128						B			191					
5	LUMINAIRE POLE RECEPTACLES P17-P24		1440			20	1	A	20	2					SPD	6
7	ELECTRICAL RACK RECEPTACLE		180			20	1	B								
9	SPARE					20	1	A	20	1					SPARE	8
11	SPARE					20	1	B	20	1					SPARE	10
LOAD SUMMARY																
		LTS	PED	MECH	MISC			TOTAL							NOTES: INCLUDE SPD	
CONNECTED LOAD (KVA)		2.2	1.6	0.0	0.0			3.8			240	LINE-TO-LINE VOLTS				
DEMAND FACTOR		1.00	1.00	1.00	1.00			---			16	CONNECTED AMPS				
DESIGN LOAD (KVA)		2.2	1.6	0.0	0.0			3.8			16	DESIGN AMPS				

C3 E-602 PANEL SCHEDULE 'E'
SCALE: NTS

PANELBOARD:	W													
VOLTAGE:	120/240	BUS RATING (A):	100 A					ENCLOSURE:	NEMA 3R					
PHASE:	1	MAIN OC DEVICE:	100 A MAIN BREAKER					MOUNTING:	RACK MOUNTED					
WIRE:	3 + GND	INTERRUPTING RATING (KAIC):				14		LOCATION:	ELECTRICAL RACK					
NEUTRAL:	YES	SERVICE ENTRANCE LABEL:				YES								

CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCP			OCP		CONNECTED LOAD (VA)				DESCRIPTION	CKT NO.
		LTS	PED	MECH	MISC	AMPS	P		AMPS	P	LTS	PED	MECH	MISC		
1	PATHWAY LUMINAIRES P1-P15	338				20	2	A	20	2	169				NATURE PATH LIGHTING*	2
		338						B			169					
3	PLAZA 1 - BOLLARD LIGHTING	19				20	2	A	20	2	21				BOARDWALK OVERLOOK LUMINAIRES P53-P54**	4
		19						B			21					
5	ELECTRICAL RACK RECEPTACLE		180			20	1	A	20	2					SPD	6
7	SPARE					20	1	B								
9	SPARE					20	1	A	20	2						8
11	SPARE					20	1	B								10
LOAD SUMMARY																
		LTS	PED	MECH	MISC			TOTAL							NOTES: INCLUDE SPD * BID ADDITIVE 2 ** BID ADDITIVE 3	
CONNECTED LOAD (KVA)		1.1	0.2	0.0	0.0			1.3			240	LINE-TO-LINE VOLTS				
DEMAND FACTOR		1.00	1.00	1.00	1.00			---			5	CONNECTED AMPS				
DESIGN LOAD (KVA)		1.1	0.2	0.0	0.0			1.3			5	DESIGN AMPS				

A3 E-602 PANEL SCHEDULE 'W'
SCALE: NTS

ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL SCHEDULES

Designed by: RES
Drawn by: DLA
Checked by: DJS
Reviewed by: DAW
Submitted by: MARK PERRELLO MOFFATT & NICHOL
Date: 2024-09-06
Rev. REVNO
M&N Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. P-0105

THE EAST GROUP
324 EVANS ST.
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 036836 ENGINEER DAVID A. WILKINSON
2/28/2025
SEAL

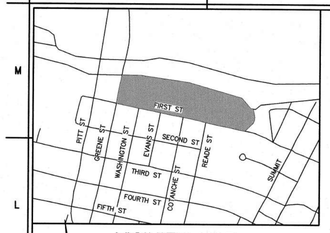
SEAL

Sheet Reference No.
E-602
INDEX: INDX OF ----

File: C:\RA\221315-02\20 CADD_Active_Greenville Town Common\221315025-602 - Plotted: 2/10/2025 8:50 AM by AUCOIN, DAVID - Saved: 2/7/2025 2:01 PM by DAUCOIN

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



VICINITY MAP
NOT TO SCALE

NOTE :
COMBINED SCALE FACTOR = 0.99989171

ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS IN FEET AND DECIMALS THEREOF UNLESS NOTED OTHERWISE.
ALL COORDINATES SHOWN ARE RELATIVE TO NAD_83/2011 COORDINATE ADJUSTMENTS.

NC GRID NAD 83-2011

STORM DRAINAGE STRUCTURE TABLE

113 CB HOOD = 22.47 INV = 19.17	239 CB HOOD = 13.04 INV = 9.29	781 DI TOP = 16.35 THROAT INLET = 15.36 N INV = 9.16 SW INV = 11.72	934 DI TOP = 18.67 INV = 14.22	1716 JB TOP = 27.47 NE INV = 19.62 W INV = 23.09	1917 DI TOP = 26.9 ± THROAT INLET = 26.21 INV = 17.71	2158 CB HOOD = 45.08 INV = 39.68	2270 JB TOP = 45.18 S INV = 41.58 INV = 39.33	2412 JB HOOD = 48.78 INV = 40.54
127 CB HOOD = 5.82 INV = 2.47	243 CB HOOD = 10.85 INV = 8.25	797 DI TOP = 16.8± THROAT INLET = 15.26 INV = 11.58	1300 DI TOP = 16.11 THROAT INLET = 15.19 INV = 6.49	1728 CB HOOD = 38.71 INV = 34.76	2108 CB HOOD = 34.79 INV = 31.03	2178 CB HOOD = 50.59 INV = 46.00	2279 CB HOOD = 45.21 INV = 42.29	2492 CB HOOD = 45.13 INV = 39.71
142 DI TOP = 20.48 INV = 17.05	592 CB HOOD = 24.70 INV = 19.35	804 DI TOP = 16.34 THROAT INLET = 15.47 INV IN = 8.27 INV OUT = 11.67	1304 DI TOP = 16.8 ± THROAT INLET = 15.97 INV = 13.12	1763 CB HOOD = 38.88 INV = 33.28	2109 CB HOOD = 34.88 INV = 31.33	2179 CB HOOD = 50.94 INV = 46.81	2295 CB HOOD = 49.32 INV = 45.47	2501 JB TOP = 45.06 INV = 38.78
177 CB HOOD = 38.84 INV = 33.94	593 CB HOOD = 24.76 INV = 18.76	899 DI TOP = 22.27 THROAT INLET =21.07 INV = 17.46	1684 CB HOOD = 25.12 INV = 21.10	1823 CB HOOD = 42.94 INV = 39.84	2113 CB HOOD = 37.04 INV = 33.44	2194 JB TOP = 49.42 INV = 44.42	2355 CB HOOD = 48.69 INV = 41.06	
		904 DI TOP = 24.77 THROAT INLET = 23.79 INV = 19.79	1685 CB HOOD = 25.12 INV = 21.10	1850 CB HOOD = 44.59 INV = 37.44	2137 CB HOOD = 42.64 INV = 39.54	2261 CB HOOD = 45.19 INV = 42.27	2410 JB HOOD = 49.09 NE INV = 41.09 NW INV = 42.89	

SANITARY SEWER STRUCTURE TABLE

100 SSMH TOP = 24.06 BOTTOM = 12.31 (APPEARS TO BE ABANDONED)	1912 SSMH TOP = 28.99 N/S INV = 20.74 W INV = 23.19
101 SSMH TOP = 23.48 NW SERV. = 15.38 INV = 7.63	2102 SSMH TOP = 22.76 INV = 8.31
446 SSMH TOP = 17.14 INV = 7.54	2103 SSMH TOP = 22.76 INV = 8.06
463 SSMH TOP = 20.74 INV = 7.54	2272 SSMH TOP = 44.94 INV =
755 SSMH TOP = 17.08 INV INACCESSIBLE	2409 SSMH TOP = 49.12 INV =
1599 SSMH TOP = 21.68 INV =8.43	2415 SSMH TOP = 47.41 INV =
1713 SSMH TOP = 28.02 INV =	2472 SSMH TOP = 50.71 INV =
	2503 SSMH TOP = 45.24 INV =

SANITARY SEWER STRUCTURE TABLE (CONT.)

2506 SSMH TOP = 16.50 INV = 7.10	2546 SSMH TOP = 26.46 INV = 7.11
2546 SSMH TOP = 26.46 INV = 7.11	2547 SSMH TOP = 26.93 INV =
2554 SSMH TOP = 17.22 INV = 9.02	2554 SSMH TOP = 17.22 INV = 9.02

N.C.G.S.M. "PLANT"
N = 682,826.34 FT. (GRID)
E = 2,482,032.22 FT. (GRID)
NAVD 1988 ELEV. = 37.1

N.C.G.S.M. "TYSON"
N = 681,940.42 FT. (GRID)
E = 2,479,521.26 FT. (GRID)
NAVD 1988 ELEV. = 69.8

MEANDER LINE IS THE APPROXIMATE MEAN HIGH WATER LINE OF THE TAR RIVER (MEAN HIGH WATER LINE IS THE ACTUAL PROPERTY LINE)

TAR RIVER

APPROXIMATE LOCATION OF THE FEMA FLOODWAY BOUNDARY AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

BFE = 23.1

EDGE OF RIVER/ WATER LINE RUNS ALONG EXISTING WALL

20' WIDE SEWER EASEMENT (10' EACH SIDE OF SEWER LINE) AS SHOWN ON MB 20 PG 56

20' WIDE STORM DRAIN EASEMENT (10' EACH SIDE OF STRUCTURE) AS SHOWN ON MB 20 PG 56

20' WIDE SEWER EASEMENT (10' EACH SIDE OF SEWER LINE) AS SHOWN ON MB 20 PG 56

APPROXIMATE LOCATION OF THE 1% FLOOD PLAIN LIMIT AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

SHEET 1 – MATCH LINE

SHEET 2 – MATCH LINE

GREENE STREET
60' PUBLIC RIGHT-OF-WAY

FIRST STREET
80' PUBLIC RIGHT-OF-WAY

WASHINGTON STREET
60' PUBLIC RIGHT-OF-WAY

EVANS STREET
70' PUBLIC RIGHT-OF-WAY

COTANCHE STREET
60' PUBLIC RIGHT-OF-WAY

SOURCE OF TITLE
DB A-38 PG 176
DB B-38 PG 276
DB I-42 PG 369
DB L-42 PG 19
MB 20 PG 55 & 56
MB 25 PG 175

REFERENCES
DB 210 PG 587
DB 1642 PG 718

STATE OF NORTH CAROLINA PITT COUNTY

I, WILLIAM B. HILLIARD, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; (DEED DESCRIPTION RECORDED IN BOOK ____ PAGE ____); THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE. WITNESS MY OFFICIAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 31st DAY OF OCTOBER, 2024.

L – 4509

GRAPHIC SCALE: 1" = 40'
0 20 40 80

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL L-4509 LAND SURVEYOR WILLIAM B. HILLIARD
10/31/2024

LEGEND

ECM = EXISTING CONCRETE MONUMENT
EIP = EXISTING IRON PIPE
EIS = EXISTING IRON STAKE
ERRS = EXISTING RAIL ROAD SPIKE
ACP = ASBESTOS CONCRETE PIPE
AL = AREA LIGHT
ASW = ASPHALT SIDEWALK
BMT = BONDED MULCH TRAIL
BNCH = BENCH
BT = BIRCH TREE
CB = CATCH BASIN
CI = CAST IRON PIPE
CLF = CHAIN LINK FENCE
CMB = CREPE MYRTLE BUSH
CSW = CONCRETE SIDEWALK
CYP = CYPRESS TREET
DI = DROP INLET
EB = ELECTRIC BOX
EMH = ELECTRIC MANHOLE
ET = ELM TREE
EWF = ENGINEERED WOOD FIBER
FH = FIRE HYDRANT
FOC = FIBER OPTIC POST/SIGN
GW = GUY WIRE
JB = JUNCTION BOX
MAG = MAGNOLIA TREE
MH = MANHOLE
M/S = MISTER/SPRINKLER
MT = MAPLE TREE
OT = OAK TREE
PCT = PECAN TREE
PIP = POURED IN PLACE
PP = POWER POLE
PT = PINE TREE
RB = REDBUD
RCP = REINFORCED CONCRETE PIPE
SYC = SYCAMORE TREE
ST = SYNTHETIC TURF
TB = TELEPHONE BOX
TSB = TRAFFIC SIGNAL BOX
VCP = VITRIFIED CLAY PIPE
WAX = WAX MYRTLE TREE
WBF = WIRE FENCE
WT = WILLOW TREE
WV = WATER VALVE
= NOT TO SCALE
= NO POINT SET
E = OVERHEAD ELECTRIC
SS = SEWER LINE
SD = STORM DRAIN
UC = UNDERGROUND CABLE
UGT = UNDERGROUND TELECOMMUNICATIONS
UE = UNDERGROUND ELECTRIC
UG = UNDERGROUND GAS
W = WATER LINE

NOTES:

1) ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES.
2) NO TITLE OPINION OR COMMITMENT WAS PROVIDED TO THE EAST GROUP BY THE OWNER OR ANY AGENT OF THE OWNER AT THE TIME OF THIS SURVEY.
3) THIS PROPERTY IS SUBJECT TO THE TAR/PAMLICO RIVER RIPARIAN BUFFER RULES.
4) THE SURVEYOR MADE NO ATTEMPT TO LOCATE OR DELINEATE ANY WETLANDS LOCATED ON THE SUBJECT PROPERTY.
5) THE SURVEYOR MAKES NO GUARANTEE THAT THERE ARE NO OTHER EASEMENTS THAT MAY BENEFIT OR BURDEN THE SUBJECT PROPERTY.
6) THIS PROPERTY IS LOCATED IN ZONE X AND AE AND IS PARTIALLY LOCATED IN A SPECIAL FLOOD HAZARD AREA AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K; BASE FLOOD ELEVATION (BFE) NOTED HEREON.
7) REFERENCE IS HEREBY MADE TO A SURVEY MAP OF THE NORTHEAST ADJACENT PROPERTY BY RIVERS AND ASSOCIATES DATED JUNE 19, 1978 TITLED "PROPERTY OF ROBERT T. MONTAQUILA, ETC".
8) UNDERGROUND UTILITIES TAKEN FROM INFORMATION PROVIDED BY GREENVILLE UTILITIES COMMISSION AND ABOVE GROUND EVIDENCE.
9) THIS SURVEY UPDATE DOES NOT INCLUDE IMPROVEMENTS FOR THE PROPERTY INSTALLED AFTER THE SEPTEMBER 2023 REVISION.

REV. NO.	DATE	REVISIONS	BY
3	9/6/23	UPDATED LOCATION & TOPO SURVEY	WBH
2	06/10/19	REVISED PROPERTY BOUNDARY	WBH
1	06/26/17	REVISED IMPORVEMENTS (PLAYGROUND AREA) TO SHEETS 2 AND 4	WBH

THE EAST GROUP, P.A.
•Engineering•Architecture•Surveying•Technology
S. Evans St., Greenville, NC 27834 252-758-3746, 252-830-3954 (Fax)

PROJECT TITLE
CITY OF GREENVILLE
TOWN COMMONS

CITY OF GREENVILLE, PITT CO., NC

DRAWING TITLE
LOCATION SURVEY

SCALE: AS NOTED	DEPARTMENT: SURVEY
DRAWN BY: WBH	DATE STARTED: 12/21/15
SHEET No.: 1 OF 4	
CHECKED: LBS	DRAWING NO.: SU1
APPROVED:	
PROJECT NO.: 20150253	

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

STORM DRAINAGE STRUCTURE TABLE

113	CB HOOD = 22.47 INV = 19.17	239	CB HOOD = 13.04 INV = 9.29	593	CB HOOD = 24.76 INV = 18.76	899	DI TOP = 22.27 THROAT INLET =21.07 INV = 17.46	1304	DI TOP = 16.8 ± THROAT INLET = 15.97 INV = 13.12
127	CB HOOD = 5.82 INV = 2.47	243	CB HOOD = 10.85 INV = 8.25	781	DI TOP = 16.35 THROAT INLET = 15.36 N INV = 9.16 SW INV = 11.72	904	DI TOP = 24.77 THROAT INLET = 23.79 INV = 19.79	1684	CB HOOD = 25.12 INV = 21.10
142	DI TOP = 20.48 INV = 17.05	592	CB HOOD = 24.70 INV = 19.35	797	DI TOP = 16.8± THROAT INLET = 15.26 INV = 11.58	934	DI TOP = 18.67 INV = 14.22	1685	CB HOOD = 25.12 INV = 21.10
177	CB HOOD = 38.84 INV = 33.94			804	DI TOP = 16.34 THROAT INLET = 15.47 INV IN = 8.27 INV OUT = 11.67	1300	DI TOP = 16.11 THROAT INLET = 15.19 INV = 6.49	1716	JB TOP = 27.47 NE INV = 19.62 W INV = 23.09
								1728	CB HOOD = 38.71 INV = 34.76

1763	CB HOOD = 38.88 INV = 33.28	2109	CB HOOD = 34.88 INV = 31.33	2194	JB TOP = 49.42 INV = 44.42	2410	JB HOOD = 49.09 NE INV = 41.09 NW INV = 42.89
1823	CB HOOD = 42.94 INV = 39.84	2113	CB HOOD = 37.04 INV = 33.44	2261	CB HOOD = 45.19 INV = 42.27	2412	JB HOOD = 48.78 INV = 40.54
1850	CB HOOD = 44.59 INV = 37.44	2137	CB HOOD = 42.64 INV = 39.54	2270	JB TOP = 45.18 S INV = 41.58 INV = 39.33	2492	CB HOOD = 45.13 INV = 39.71
1917	DI TOP = 26.9 ± THROAT INLET = 26.21 INV = 17.71	2158	CB HOOD = 45.08 INV = 39.68	2279	CB HOOD = 45.21 INV = 42.29	2501	JB TOP = 45.06 INV = 38.78
2108	CB HOOD = 34.79 INV = 31.03	2178	CB HOOD = 50.59 INV = 46.00	2295	CB HOOD = 49.32 INV = 45.47		
		2179	CB HOOD = 50.94 INV = 46.81	2355	CB HOOD = 48.69 INV = 41.06		

SHEET 1 – MATCH LINE

SHEET 2 – MATCH LINE

TAR RIVER

MEANDER LINE IS THE APPROXIMATE MEAN HIGH WATER LINE OF THE TAR RIVER (MEAN HIGH WATER LINE IS THE ACTUAL PROPERTY LINE)

APPROXIMATE LOCATION OF THE FEMA FLOODWAY BOUNDARY AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

EDGE OF RIVER/ WATER LINE RUNS ALONG EXISTING WALL

LEASE AREA DB 210 PG 587

SITE BENCHMARK & CONTROL POINT – NPK3 N = 683,044.83 FT. (GRID) E = 2,484,253.72 FT. (GRID) NAVD 1988 ELEV = 24.68

APPROXIMATE LOCATION OF THE 1% FLOOD PLAIN LIMIT AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

20' WIDE SEWER EASEMENT (10' EACH SIDE OF SEWER LINE) AS SHOWN ON MB 20 PG 55

STRUCTURE TOP=38.60' INV.=25.20'

JB TOP=26.85' INV.IN=22.35' INV.OUT=22.25' BOTTOM=21.80'

APPROXIMATE LOCATION OF 12' WIDE INGRESS AND EGRESS EASEMENT (DB L42 PG 19)

ASPHALT PATH

ZIPLINE AREA EWF

LIBERTY SWING PIP

BENCH TOP=32.57' INV.=30.00'

DI TOP=31.84' INV.=30.57'

5-12 PLAY AREA – PIP

CONCRETE STEPS AND RAIL

DI TOP=33.85' INV.=32.35'

2-5 PLAY AREA – PIP

SITE BENCHMARK & CONTROL POINT – NPK4 N = 683,893.81 FT. (GRID) E = 2,484,188.55 FT. (GRID) NAVD 1988 ELEV = 27.19

FITNESS AREA

NO RECORDED EASEMENT FOUND FOR UNDERGROUND ELECTRIC LINE

UNDERGROUND ELECTRIC AND WATER LINES FOR THE PLAYGROUND AREA TAKEN FROM CONSTRUCTION DRAWINGS

ARBOR W/ COLUMNS

BUSH

TAR RIVER

BFE = 22.6

APPROXIMATE LOCATION OF THE FEMA FLOODWAY BOUNDARY AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

MEANDER LINE IS THE APPROXIMATE MEAN HIGH WATER LINE OF THE TAR RIVER (MEAN HIGH WATER LINE IS THE ACTUAL PROPERTY LINE)

12"PILE (TYP.)

GROUP OF TREES: 12"MS, 20"WT, 15"BT, 8"BT

BOAT RAMP

SI(2) & POST

SITE BENCHMARK & CONTROL POINT – NPK2 N = 682,977.08 FT. (GRID) E = 2,484,852.47 FT. (GRID) NAVD 1988 ELEV = 14.58

20' WIDE SEWER EASEMENT (10' EACH SIDE OF SEWER LINE) AS SHOWN ON MB 20 PG 55

WETLAND AREA

OUTLET STRUCTURE TOP = 14.45 BOTTOM = 6.88

STEEL AND WOOD DECK BRIDGE

SCULPTURE

BR ON CP

ASPHALT DRIVEWAY

EX. DRILL HOLE

ROBERT T. MONTAQUILA, et ux DB 500 PG 13

IMMOBILIARE, LLC DB 3208 PG 291

SITE BENCHMARK & BOLT OVER LARGEST FLANGE OVER HYDRANT NAVD 1988 ELEV =

ASW (GREENWAY)

CONSERVATION EASEMENT DB 1642 PG 718

JEFFREY J. GRABOWSKI DB 3127 PG 415

THOMAS F. TAFT, SR., TRUSTEE DB 2475 PG 709

TWIN 78" RCP INV = 0.70

20' WIDE SEWER EASEMENT (10' EACH SIDE OF SEWER LINE) AS SHOWN ON MB 20 PG 55

APPROXIMATE LOCATION OF THE 1% FLOOD PLAIN LIMIT AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

READE STREET

75' PUBLIC RIGHT-OF-WAY

SANITARY SEWER STRUCTURE TABLE

100	SSMH TOP = 24.06 BOTTOM = 12.31 (APPEARS TO BE ABANDONED)	755	SSMH TOP = 17.08 INV INACCESSIBLE	463	SSMH TOP = 20.74 INV = 7.54	2103	SSMH TOP = 22.76 INV = 8.06	2415	SSMH TOP = 47.41 INV =	2506	SSMH TOP = 16.50 INV = 7.10	2554	SSMH TOP = 17.22 INV = 9.02
101	SSMH TOP = 23.48 NW SERV. = 15.38 INV = 7.63	1599	SSMH TOP = 21.68 INV = 8.43	1912	SSMH TOP = 28.99 N/S INV = 20.74 W INV = 23.19	2272	SSMH TOP = 44.94 INV =	2472	SSMH TOP = 50.71 INV =	2546	SSMH TOP = 26.46 INV = 7.11		
446	SSMH TOP = 17.14 INV = 7.54	1713	SSMH TOP = 28.02 INV =	2102	SSMH TOP = 22.76 INV = 8.31	2409	SSMH TOP = 49.12 INV =	2503	SSMH TOP = 45.24 INV =	2547	SSMH TOP = 26.93 INV =		

SOURCE OF TITLE	REFERENCES
DB A-38 PG 176	DB 210 PG 587
DB B-38 PG 276	DB 1642 PG 718
DB I-42 PG 369	
DB L-42 PG 19	
MB 20 PG 55 & 56	
MB 25 PG 175	

GRAPHIC SCALE: 1" = 40'

0 20 40 80

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SEAL

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-4509 WILLIAM B. HILLIARD

10/31/2024

SEAL

LEGEND

ECM = EXISTING CONCRETE MONUMENT
EIP = EXISTING IRON PIPE
EIS = EXISTING IRON STAKE
ERRS = EXISTING RAIL ROAD SPIKE
ACP = ASBESTOS CONCRETE PIPE
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REV. NO.	DATE	REVISIONS	BY
3	9/6/23	UPDATED LOCATION & TOPO SURVEY	WBH
2	06/10/19	REVISED PROPERTY BOUNDARY	WBH
1	06/26/17	REVISED IMPORVEMENTS (PLAYGROUND AREA) TO SHEETS 2 AND 4	WBH

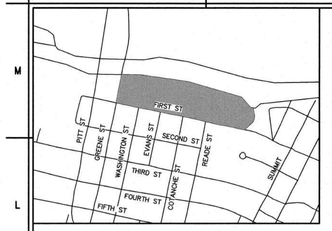
THE EAST GROUP, P.A.
•Engineering•Architecture•Surveying•Technology
S. Evans St., Greenville, NC 27834 252-758-3746, 252-830-3954 (Fax)

PROJECT TITLE
CITY OF GREENVILLE
TOWN COMMONS
CITY OF GREENVILLE, PITT CO., NC

DRAWING TITLE
LOCATION SURVEY

SCALE: AS NOTED	DEPARTMENT: SURVEY
DRAWN BY: WBH	DATE STARTED: 12/21/15
CHECKED: WBH	SHEET No.: 2 OF 4
APPROVED	DRAWING NO.: SU2
PROJECT NO.: 20150253	

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799



VICINITY MAP
NOT TO SCALE

STORM DRAINAGE STRUCTURE TABLE

113 CB HOOD = 22.47 INV = 19.17	239 CB HOOD = 13.04 INV = 9.29	781 DI TOP = 16.35 THROAT INLET = 15.36 N INV = 9.16 SW INV = 11.72	934 DI TOP = 18.67 INV = 14.22	1716 JB TOP = 27.47 NE INV = 19.62 W INV = 23.09	1917 DI TOP = 26.9 ± THROAT INLET = 26.21 INV = 17.71	2158 CB HOOD = 45.08 INV = 39.68	2270 JB TOP = 45.18 S INV = 41.58 INV = 39.33	2412 JB HOOD = 48.78 INV = 40.54
127 CB HOOD = 5.82 INV = 2.47	243 CB HOOD = 10.85 INV = 8.25	797 DI TOP = 16.8± THROAT INLET = 15.26 INV = 11.58	1300 DI TOP = 16.11 THROAT INLET = 15.19 INV = 6.49	1728 CB HOOD = 38.71 INV = 34.76	2108 CB HOOD = 34.79 INV = 31.03	2178 CB HOOD = 50.59 INV = 46.00	2279 CB HOOD = 45.21 INV = 42.29	2492 CB HOOD = 45.13 INV = 39.71
142 DI TOP = 20.48 INV = 17.05	592 CB HOOD = 24.70 INV = 19.35	804 DI TOP = 16.34 THROAT INLET = 15.47 INV IN = 8.27 INV OUT = 11.67	1304 DI TOP = 16.8 ± THROAT INLET = 15.97 INV = 13.12	1763 CB HOOD = 38.88 INV = 33.28	2109 CB HOOD = 34.88 INV = 31.33	2179 CB HOOD = 50.94 INV = 46.81	2295 CB HOOD = 49.32 INV = 45.47	2501 JB TOP = 45.06 INV = 38.78
177 CB HOOD = 38.84 INV = 33.94	593 CB HOOD = 24.76 INV = 18.76	899 DI TOP = 22.27 THROAT INLET =21.07 INV = 17.46	1684 CB HOOD = 25.12 INV = 21.10	1823 CB HOOD = 42.94 INV = 39.84	2113 CB HOOD = 37.04 INV = 33.44	2194 JB TOP = 49.42 INV = 44.42	2355 CB HOOD = 48.69 INV = 41.06	
		904 DI TOP = 24.77 THROAT INLET = 23.79 INV = 19.79	1685 CB HOOD = 25.12 INV = 21.10	1850 CB HOOD = 44.59 INV = 37.44	2137 CB HOOD = 42.64 INV = 39.54	2261 CB HOOD = 45.19 INV = 42.27	2410 JB HOOD = 49.09 NE INV = 41.09 NW INV = 42.89	

SANITARY SEWER STRUCTURE TABLE

100	SSMH TOP = 24.06 BOTTOM = 12.31 (APPEARS TO BE ABANDONED)
101	SSMH TOP = 23.48 NW SERV. = 15.38 INV = 7.63
446	SSMH TOP = 17.14 INV = 7.54
463	SSMH TOP = 20.74 INV = 7.54
755	SSMH TOP = 17.08 INV INACCESSIBLE
1599	SSMH TOP = 21.68 INV =8.43
1713	SSMH TOP = 28.02 INV =
1912	SSMH TOP = 28.99 N/S INV = 20.74 W INV = 23.19
2102	SSMH TOP = 22.76 INV = 8.31
2103	SSMH TOP = 22.76 INV = 8.06
2272	SSMH TOP = 44.94 INV =
2409	SSMH TOP = 49.12 INV =
2415	SSMH TOP = 47.41 INV =
2472	SSMH TOP = 50.71 INV =
2503	SSMH TOP = 45.24 INV =

SANITARY SEWER STRUCTURE TABLE (CONT.)

2506 SSMH TOP = 16.50 INV = 7.10	2546 SSMH TOP = 26.46 INV = 7.11
2546 SSMH TOP = 26.46 INV = 7.11	2547 SSMH TOP = 26.93 INV =
2554 SSMH TOP = 17.22 INV = 9.02	2554 SSMH TOP = 17.22 INV = 9.02

MEANDER LINE IS THE APPROXIMATE MEAN HIGH WATER LINE OF THE TAR RIVER (MEAN HIGH WATER LINE IS THE ACTUAL PROPERTY LINE)

BFE = 23.1 EDGE OF RIVER/ WATER LINE RUNS ALONG EXISTING WALL

APPROXIMATE LOCATION OF THE FEMA FLOODWAY BOUNDARY AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

APPROXIMATE LOCATION OF THE 1% FLOOD PLAIN LIMIT AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K.

TAR RIVER

SHEET 1 – MATCH LINE
SHEET 2 – MATCH LINE

GREENE STREET
60' PUBLIC RIGHT-OF-WAY

WASHINGTON STREET
60' PUBLIC RIGHT-OF-WAY

FIRST STREET
80' PUBLIC RIGHT-OF-WAY

EVANS STREET
70' PUBLIC RIGHT-OF-WAY

COTANCHE STREET
60' PUBLIC RIGHT-OF-WAY

SOURCE OF TITLE	REFERENCES
DB A-38 PG 176	DB 210 PG 587
DB B-38 PG 276	DB 1642 PG 718
DB I-42 PG 369	
DB L-42 PG 19	
MB 20 PG 55 & 56	
MB 25 PG 175	

GRAPHIC SCALE: 1" = 40'
0 20 40 80

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SEAL 10/31/2024 NORTH CAROLINA PROFESSIONAL SEAL L-4509 LAND SURVEYOR WILLIAM B. HILLIARD

LEGEND

ECM = EXISTING CONCRETE MONUMENT
EIP = EXISTING IRON PIPE
EIS = EXISTING IRON STAKE
ERRS = EXISTING RAIL ROAD SPIKE
ACP = ASBESTOS CONCRETE PIPE
AL = AREA LIGHT
ASW = ASPHALT SIDEWALK
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BNCH = BENCH
BT = BIRCH TREE
CB = CATCH BASIN
CI = CAST IRON PIPE
CLF = CHAIN LINK FENCE
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CSW = CONCRETE SIDEWALK
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NOTES:

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2) NO TITLE OPINION OR COMMITMENT WAS PROVIDED TO THE EAST GROUP BY THE OWNER OR ANY AGENT OF THE OWNER AT THE TIME OF THIS SURVEY.
3) THIS PROPERTY IS SUBJECT TO THE TAR/PAMLICO RIVER RIPARIAN BUFFER RULES.
4) THE SURVEYOR MADE NO ATTEMPT TO LOCATE OR DELINEATE ANY WETLANDS LOCATED ON THE SUBJECT PROPERTY.
5) THE SURVEYOR MAKES NO GUARANTEE THAT THERE ARE NO OTHER EASEMENTS THAT MAY BENEFIT OR BURDEN THE SUBJECT PROPERTY.
6) THIS PROPERTY IS LOCATED IN ZONE X AND AE AND IS PARTIALLY LOCATED IN A SPECIAL FLOOD HAZARD AREA AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720468800K; BASE FLOOD ELEVATION (BFE) NOTED HEREON.
7) REFERENCE IS HEREBY MADE TO A SURVEY MAP OF THE NORTHEAST ADJACENT PROPERTY BY RIVERS AND ASSOCIATES DATED JUNE 19, 1978 TITLED "PROPERTY OF ROBERT T. MONTAQUILA, ETC".
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REV. NO.	DATE	REVISIONS	BY
3	9/6/23	UPDATED LOCATION & TOPO SURVEY	WBH
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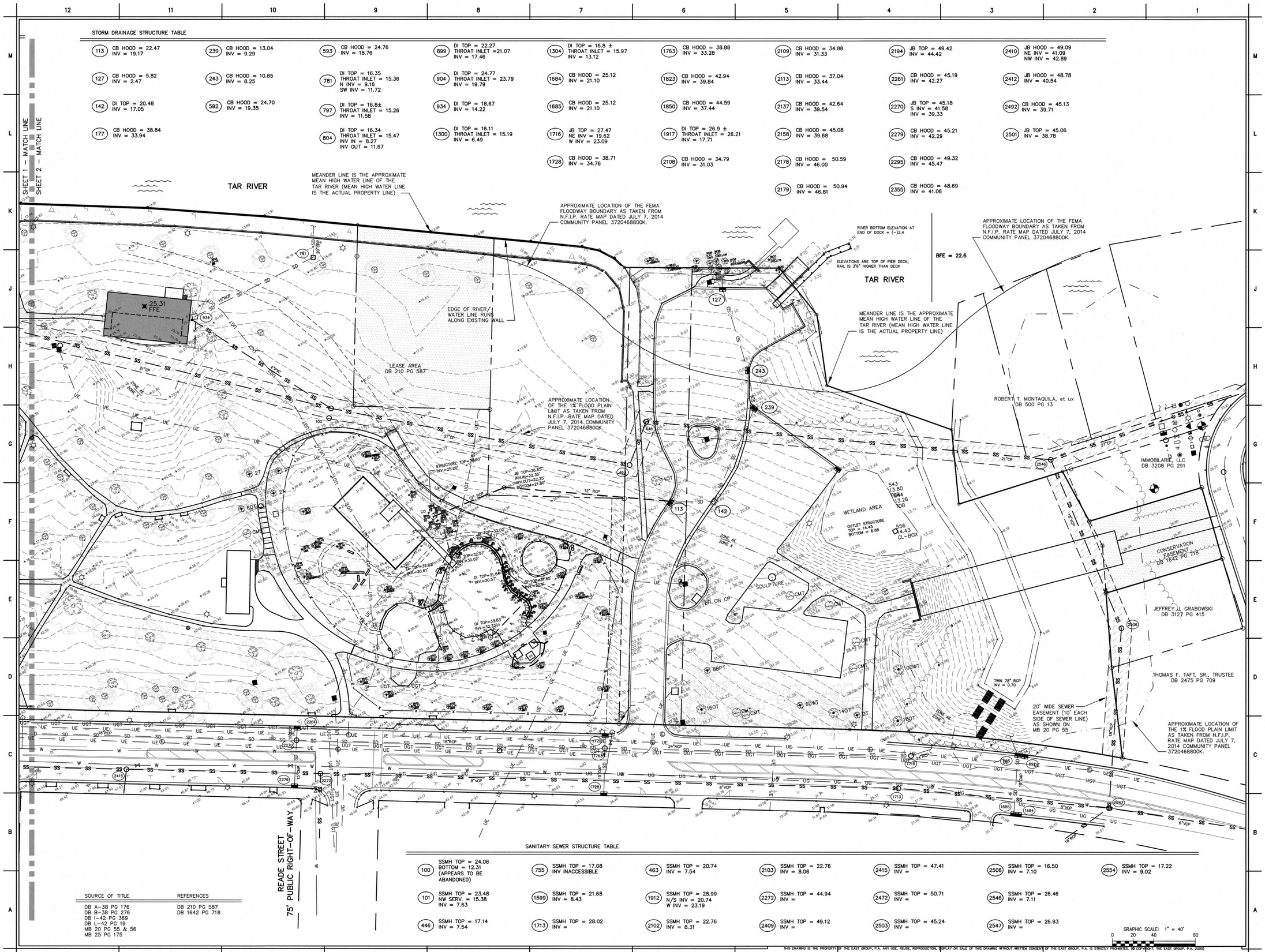
DRAWING TITLE
TOPOGRAPHIC SURVEY

SCALE: AS NOTED		DEPARTMENT: SURVEY	
DRAWN BY: WBH	DATE STARTED: 12/21/15	SHEET No.: 3 OF 4	
CHECKED		DRAWING NO.: SU3	
APPROVED			
PROJECT NO.: 20150253			

Docusign Envelope ID: C0E0A01E-9B2D-460D-B00B-F86E81BC4799

STORM DRAINAGE STRUCTURE TABLE

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SEAL
10/31/2024
NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-4509 WILLIAM B. HILLIARD
SEAL

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CITY OF GREENVILLE, PITT CO., NC

DRAWING TITLE
TOPOGRAPHIC SURVEY

SCALE	DEPARTMENT
AS NOTED	SURVEY
DRAWN BY: WBH	DATE STARTED: 12/21/15
CHECKED	SHEET No.: 4 OF 4
APPROVED	DRAWING NO.: SU4
PROJECT NO.: 20150253	