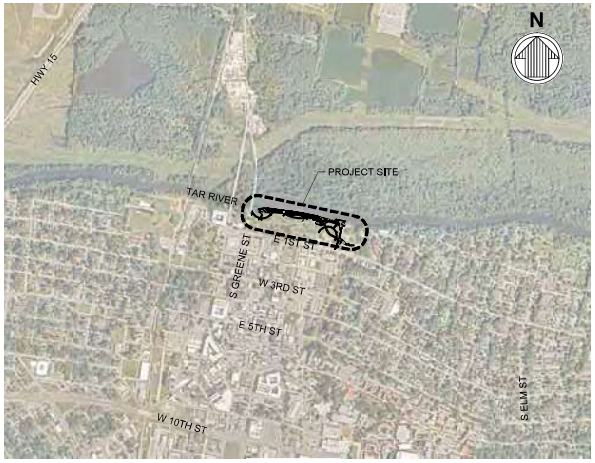
GREENVILLE TOWN COMMON BULKHEAD & ESPLANADE PROJECT

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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

COVER SHEET

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Covering Code:
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

THE EAST GROUP
330 EVANS ST
GREENVILLE, NORTH CAROLINA
252-756-5436
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
Civil Engineering • Land Development • Surveying

Submitted by: MARK PIRELLO
MOFFATT & NICHOL

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER MARK A. PIRELLO
02/21/2025
SEAL

SEAL

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

File: Q:\RAL\221315-02\00 CAD\01_Active_Greenville Town Commons\221315\00-G-001 Plotted: 2/19/2025 5:25 PM by MORGAN, NEKOL Saved: 2/17/2025 3:16 PM by MMORGAN

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

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

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
2	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

INDEX OF DRAWINGS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
320 EVANS ST
GREENVILLE, NC 27858
252-758-3746
GREENVILLE, NORTH CAROLINA

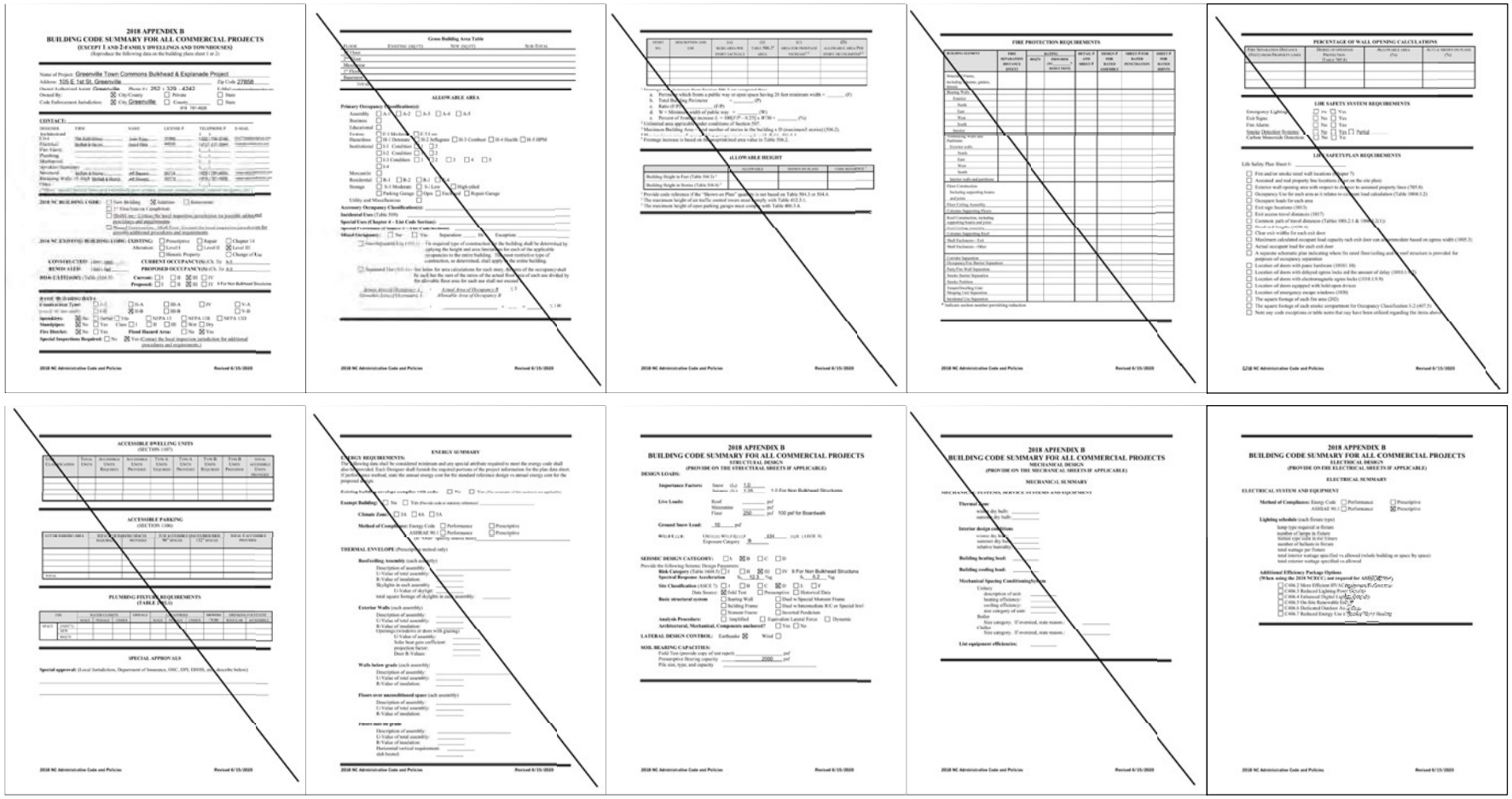
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025

SEAL

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

File: Q:\RALE\215-0210 CA\CPL Active\Greenville Town Commons\215-0210-G-002 Plotted: 2/19/2025 5:36 PM by MORGAN NEVOL Saved: 2/14/2025 3:47 PM by MORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Date	Description
2025-02-07	ISSUED FOR BID

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

APPENDIX B - BUILDING CODE SUMMARY

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 22115-02
Reviewed by: D. JACKSON
Drawing code:
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
RALEIGH, NC 27609
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

SEAL

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

File: Q:\RALE\22115-02\CD\CAD\L Actiwit_Greenville Town Commons\27101\G-003 Plotted: 2/19/2025 5:36 PM by: MORGAN, NICKOL Saved: 2/12/2025 5:23 PM by: MORGAN

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).

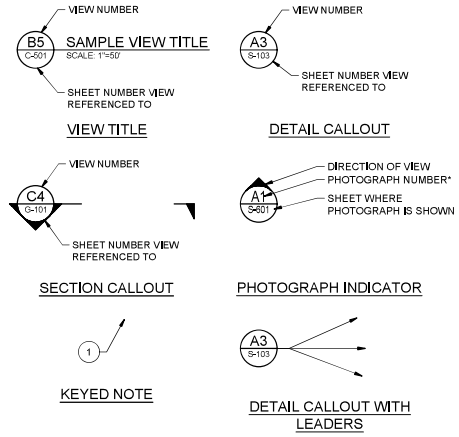
2. FLOOD ELEVATIONS ARE BASED ON USGS TAR RIVER STATION ID 02084000 AND FEMA FIRM PANEL 4688K. THE WATER LEVEL DATA FOR THE FACILITY IS LISTED BELOW:

	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

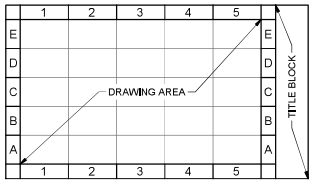
ABBREVIATIONS:

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

LEGEND:



* 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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

GENERAL NOTES, ABBREVIATIONS & LEGEND

Designed by: J. SWYERS | Date: 2025-02-07 | Rev. 0
Dwn by: VNM | Ckd by: MAP | M&N Project No. 22131-02
Reviewed by: D. JACOBSON | Drawing Scale: AS SHOWN
Submitted by: MARK PIRELLO | Plot scale: 1:1 (6 SHEET)

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

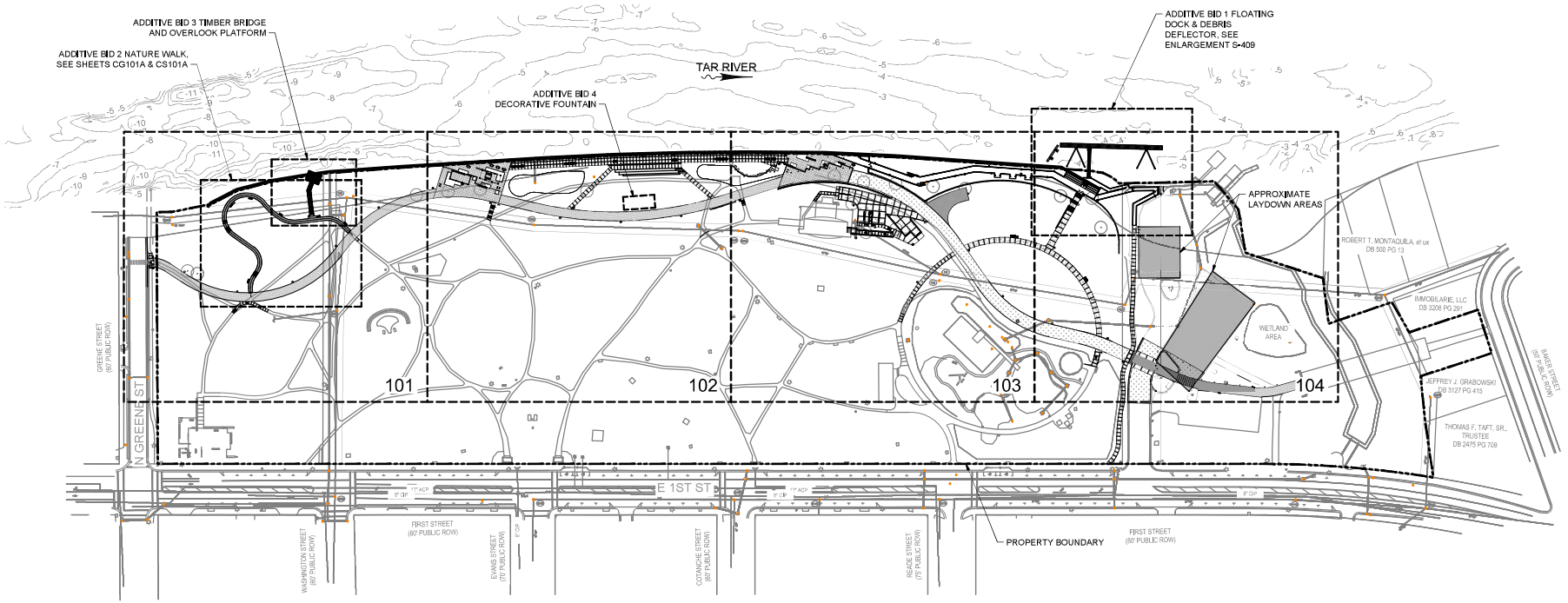
THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27858
252-758-3456
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL 06074 NORTH CAROLINA PROFESSIONAL SEAL ENGINEER
02/21/2025

SEAL

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

File: Q:\R\022715-02\D CAD\L Actiwt_Greenville Town Common\27015\02\G-004 Plotted: 2/19/2025 5:36 PM by MORGAN NEVOL Saved: 2/13/2025 11:30 AM by MMORGAN



N

80' 0' 80' 160'

SCALE: 1"=80'

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	Rev.
3	ISSUED FOR BID	2025-02-07	J.S

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

KEY PLAN

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0.34"/FT.)
Submitted by: MARK PIRRELLO
MOFFATT & NICHOL

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

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
330 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-3456
Civil Engineering • Land Planning • Surveying

SEAL
02/21/2025

SEAL

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

File: Q:\RALE\221315-02\CD\CAD\Actiel_Greenville Town Commons\221315G-101.Plotted: 2/19/2025 5:27 PM by: MORGAN, NEVOL, Saved: 2/7/2025 5:34 PM by: MORGAN

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	1823 CB HOOD = 42.94 INV = 39.84	2158 CB HOOD = 45.08 INV = 39.68	2295 CB HOOD = 49.32 INV = 45.47
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	1850 CB HOOD = 44.59 INV = 37.44	2178 CB HOOD = 50.59 INV = 46.00	2355 CB HOOD = 48.69 INV = 41.06
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	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
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	2108 CB HOOD = 34.79 INV = 31.03	2194 JB TOP = 49.42 INV = 44.42	2412 JB HOOD = 48.78 INV = 40.54
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	2109 CB HOOD = 34.88 INV = 31.33	2261 CB HOOD = 45.19 INV = 42.27	2492 CB HOOD = 45.13 INV = 39.71
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	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
592 CB HOOD = 24.70 INV = 19.35	934 DI TOP = 18.67 INV = 14.22	1763 CB HOOD = 38.88 INV = 33.28	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 =	2546 SSMH TOP = 26.46 INV = 7.11
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 =	2547 SSMH TOP = 26.93 INV =
446 SSMH TOP = 17.14 INV = 7.54	2102 SSMH TOP = 22.76 INV = 8.31	2503 SSMH TOP = 45.24 INV =	2554 SSMH TOP = 17.22 INV = 9.02
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	

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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SURVEY NOTES & ABBREVIATIONS

Designed by: J. SWYERS | Date: 2025-02-07 | Rev. 0
Drawn by: VNM | Chk'd by: MAP | MBA Project No. 221315-02
Reviewed by: D. JACOBSON | Drawing Code:
Submitted by: MARK PIRELLO | Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & michel
4700 FALLS OF NEUSE RD. SUITE 300 RALEIGH, NC 27609 919-341-8400 NC FIRM LICENSE NO. C-0105

THE EAST GROUP
330 EVANS ST GREENVILLE, NC 27834 252-758-5436
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Surveying • Mapping • Geospatial

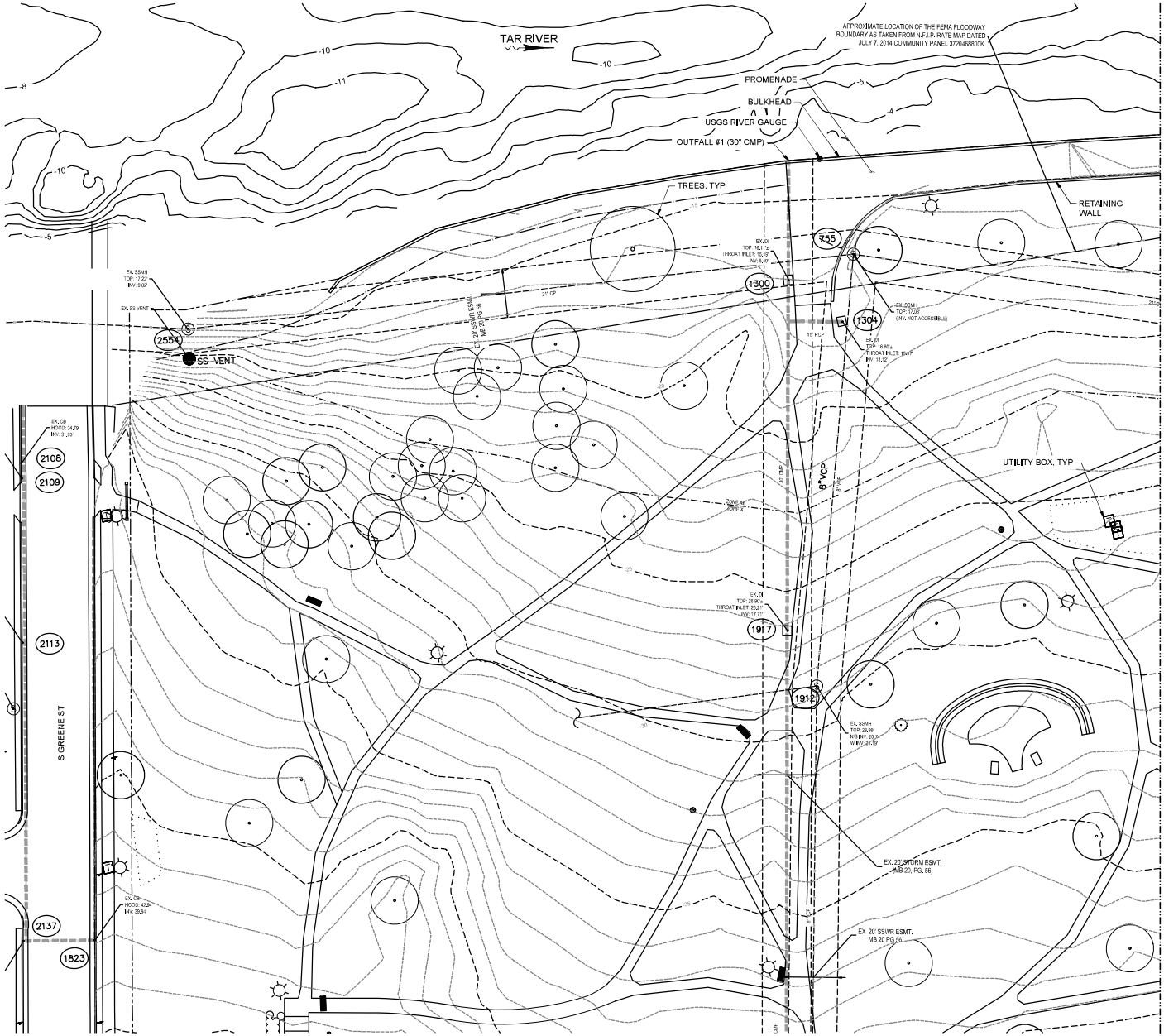
SEAL

SEAL

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

File: Q:\RALE\221315-02\00 CAD\01_Actively_Greenville Town Common\221315-02V-001 Plotted 2/18/2025 5:27 PM by MORGAN NEKOL Saved 2/7/2025 3:45 PM by MORGAN

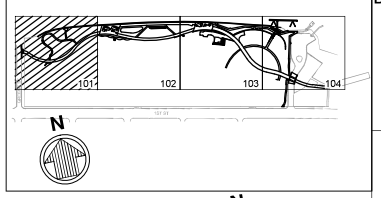
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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



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.	Date	Description	Drwn.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 1 OF 4

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-4450
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
320 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-3704
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Development • Surveying • Landscape Architecture

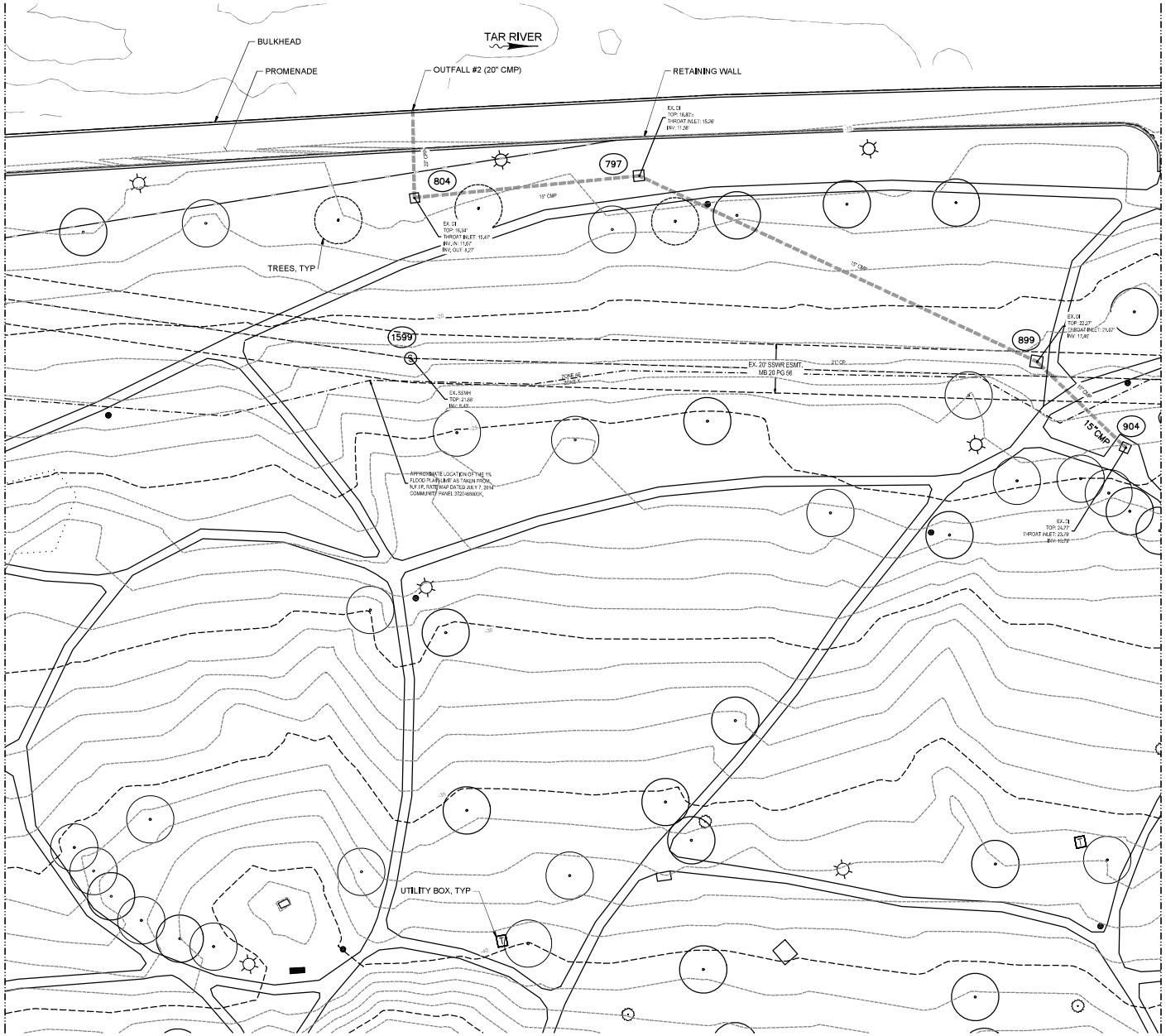
SEAL

SEAL

Sheet Reference No.
V-101
INDEX: 7 OF 114

File: Q:\RALE\2715-02\00 CADD_Active_Greenville Town Common\2715\02\V-101 - Plotted: 2/10/2025 2:26 PM by MORGAN NICHOL, Saved: 2/10/2025 12:32 PM by MMORGAN

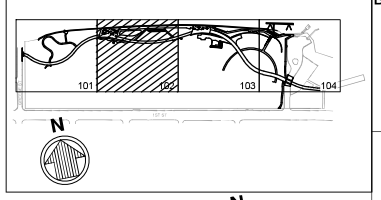
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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



N

20' 0' 20' 40'

SCALE: 1"=20'

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

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 2 OF 4

Date: 2025-02-07 Rev. 0

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (B 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
330 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-3456
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Development • Surveying • Transportation Planning

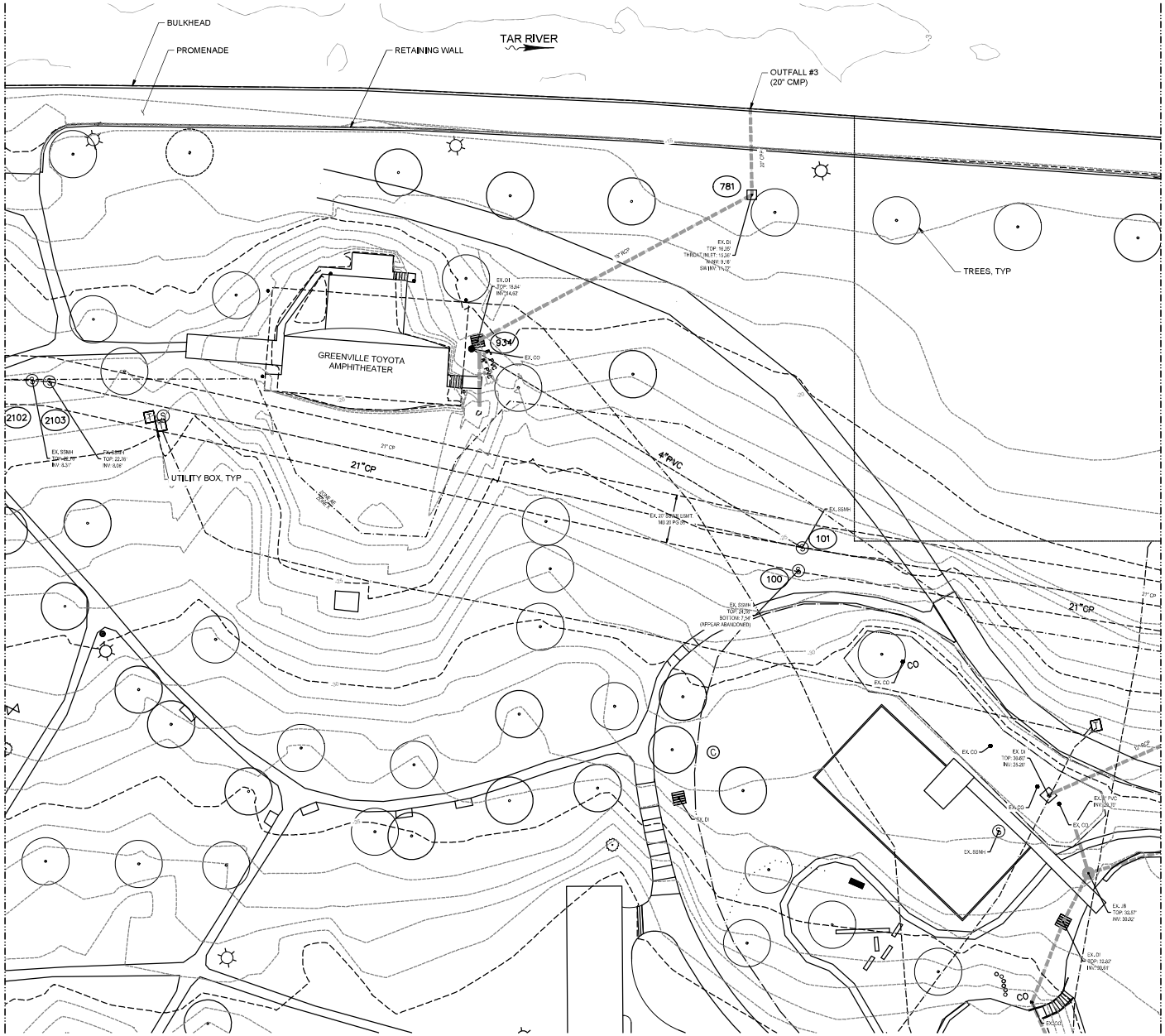
SEAL

SEAL

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

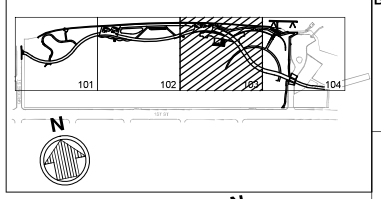
File: Q:\RALE\221315-02\00 CADD_Active_Greenville Town Common\221315-02V-102 Plotted: 2/10/2025 2:36 PM by MORGAN NEKOL Saved: 2/10/2025 12:34 PM by MMORGAN



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



N

20' 0' 20' 40'

SCALE: 1"=20'

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

Greenville NORTH CAROLINA

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	0

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 3 OF 4

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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
330 EVANS ST
GREENVILLE, NC 27858
252-758-3456
NC ENGINEERING FIRM LICENSE NO. C-0209
NC LANDSCAPE FIRM LICENSE NO. C-437

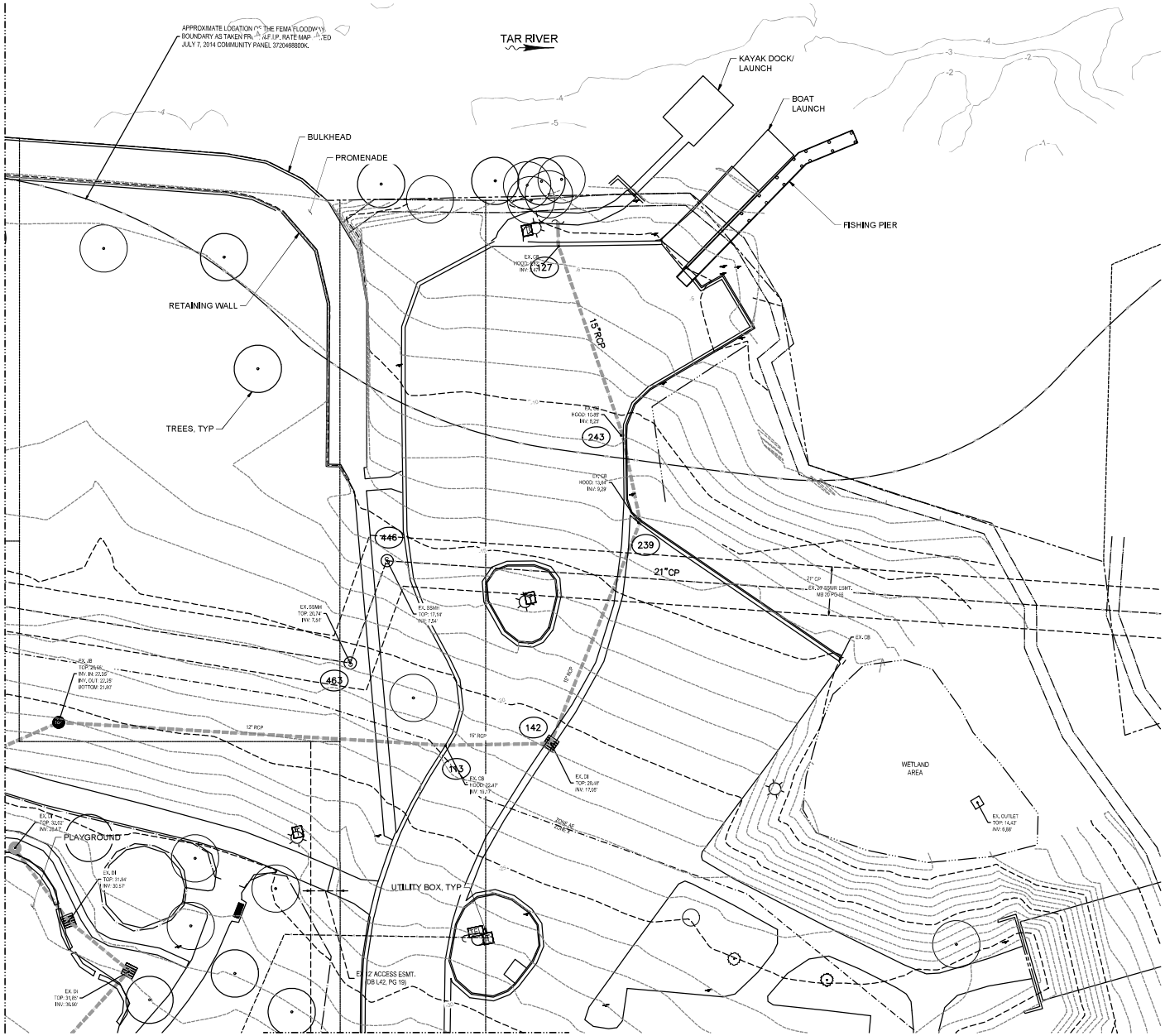
SEAL

SEAL

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

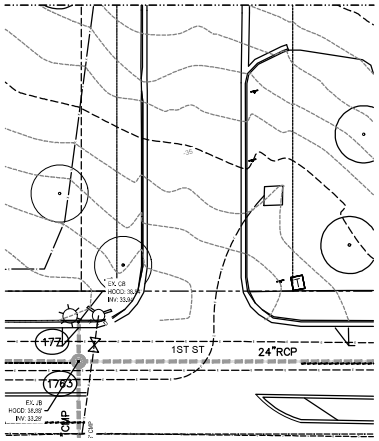
File: Q:\R\A\22\315-02\CD\CAD\L Active\Greenville Town Common\221315-02V1-103 Plotted: 2/10/2025 2:39 PM by MORGAN NEKOL Saved: 2/10/2025 12:35 PM by MMORGAN



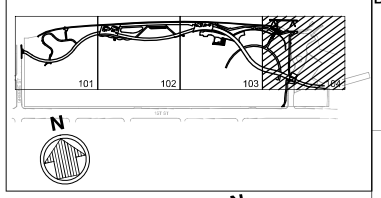
NOTES:

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

Date	Description	Rev.
0	ISSUED FOR BID	
2025-02-07		JLS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

EXISTING SITE PLAN SHEET 4 OF 4

Date: 2025-02-07 Rev. 0
Designed by: J. SAWYERS
MBA Project No. 22131-502
Drawn by: VNM
Checked by: MAP
Drawing code:
Reviewed by: D. JACOBSON
Drawing scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcKatt & Michel
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-0105

THE EAST GROUP
330 ELANS CT
GREENVILLE, NC 27834
252-758-1748
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

Submitted by: MARK PIRRELLO
McKATT & MICHEL

SEAL

SEAL

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

File: Q:\RAL\22131-502\0 CADD_Active_Greenville Town Common\22131-502V-104 Plotted: 2/10/2025 2:30 PM by MORGAN NEKOL Saved: 2/10/2025 12:35 PM by MMORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Appr.
3	ISSUED FOR BID	2025-02-07	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BORING LOCATION SITE PLAN

Date: 2025-02-07 Rev. 0

Designed by: J. SWYERS

Drawn by: VNM

Checked by: MAP

MBA Project No. 221315-02

Reviewed by: D. JACOBSON

Drawing code:

Submitted by: MARK PIRELLO MOFFATT & NICHOL

Drawing Scale: AS SHOWN

Plot scale: 1:1 (B SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-1744
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

SEAL

Sheet Reference No.

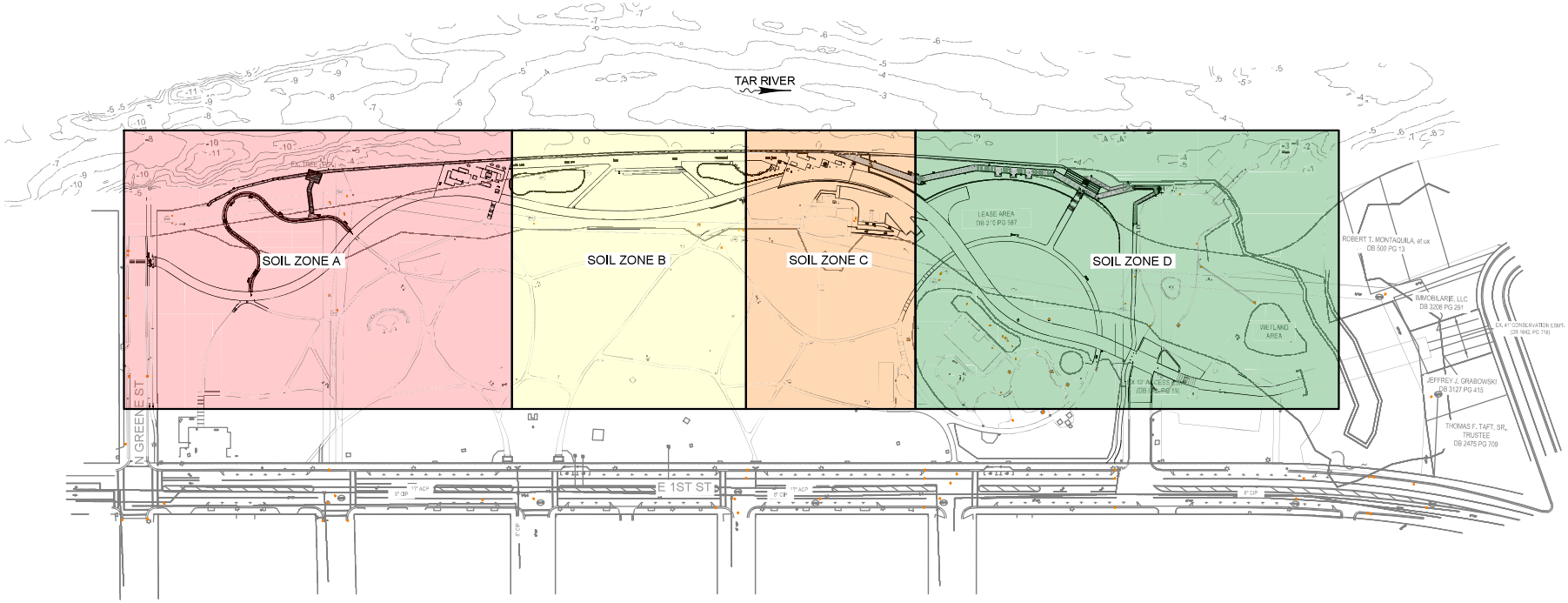
B-101

INDEX: 11 OF 114

File: Q:\R\022\315-02\00 CAD\01_Active_Greenville Town Commons\221315-02B-101.dwg Plotted: 2/18/2025 2:39 PM by MORGAN NEKOL Saved: 9/25/2024 5:47 PM by MORGAN

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	J.R.B

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SOIL ZONE SITE PLAN

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (B SHEET)

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

THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-1766
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Development • Surveying • Transportation Planning

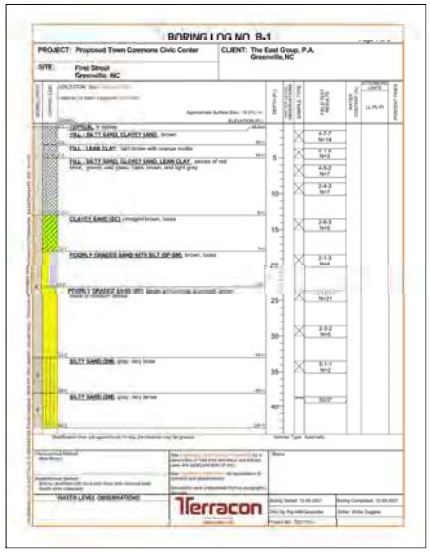
Submitted by: MARK PIRRELLO
MOFFATT & NICHOL

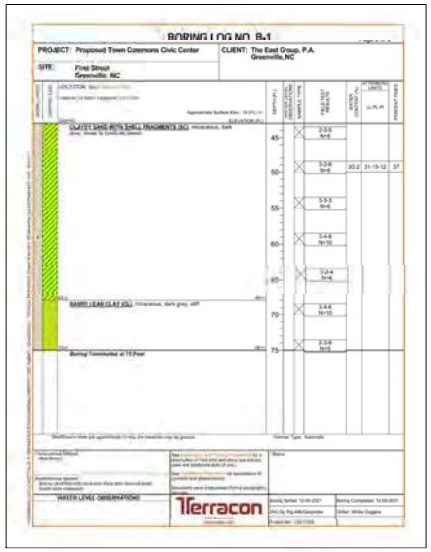
SEAL

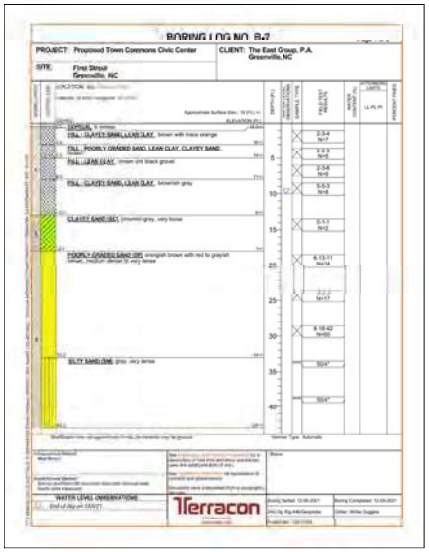
SEAL

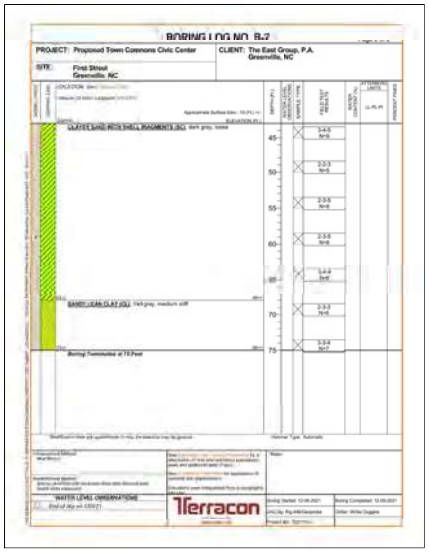
Sheet Reference No.
B-102
INDEX: 12 OF 114

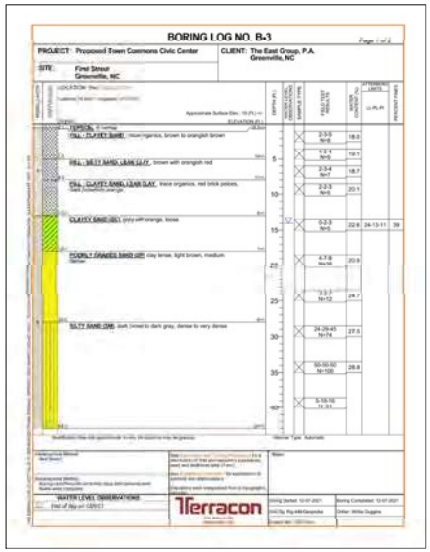
File: Q:\R\22315-02\30 CAD\L Active\Greenville Town Common\27315\03B-102 Plotted 2/18/2025 5:30 PM by MORGAN NEKOL Saved 2/14/2025 2:20 PM by MORGAN

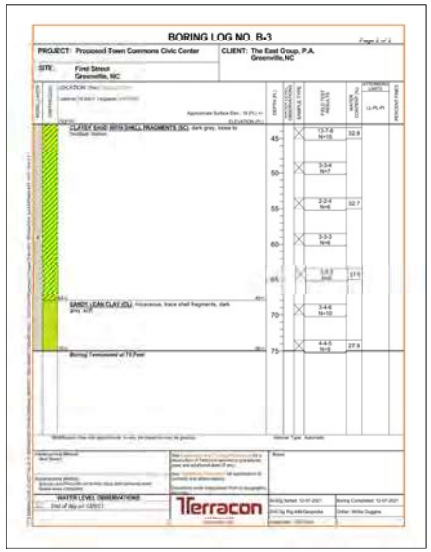


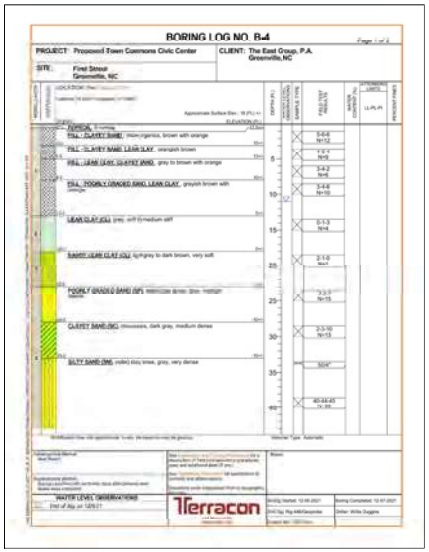


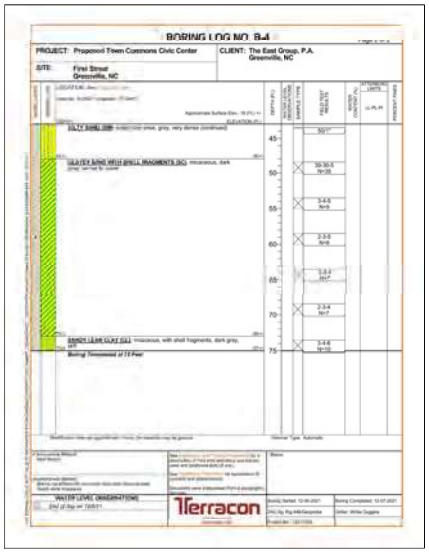












ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	0

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BORING LOGS SHEET 1 OF 2

Date: 2025-02-07 Rev. 0
Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBA Project No. 22315-02
Drawing code:
Reviewed by: D. JACKSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

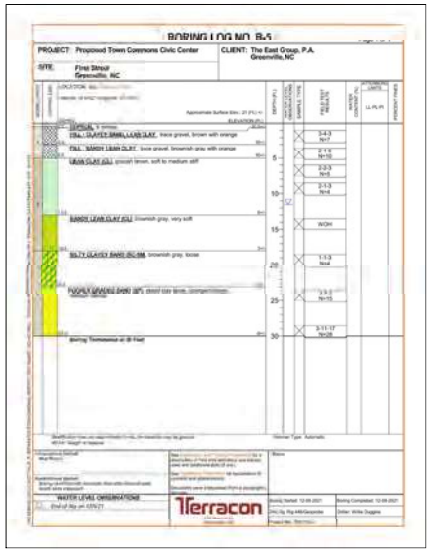
THE EAST GROUP
330 ELANS ST GREENVILLE, NC 27834 252-756-4748
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
S.E. Engineering • S.E. Surveying

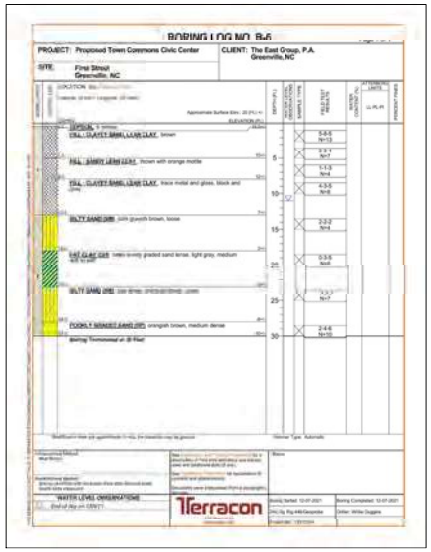
SEAL

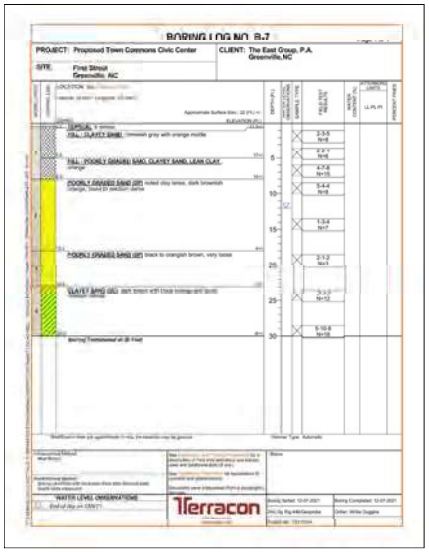
SEAL

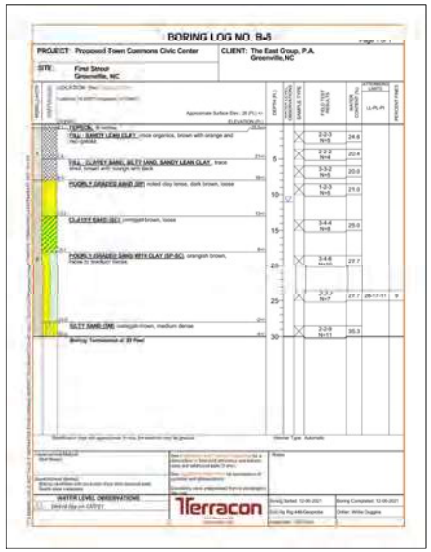
Sheet Reference No.
B-601
INDEX: 13 OF 114

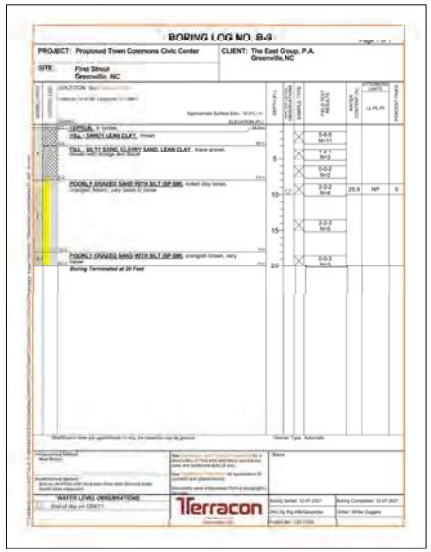
File: Q:\RAL\22315-02\00 CAD_Active_Greenville Town Commons\27010\B-601.dwg Plotted: 2/18/2025 5:30 PM by: MORGAN, NEKOL Saved: 2/10/2025 12:46 PM by: MMORGAN

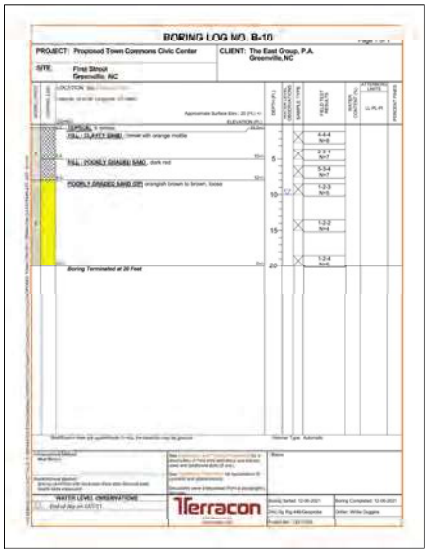












ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

No.	Description	Date	Rev.
0	ISSUED FOR BID	2025-02-07	J.IS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BORING LOGS SHEET 2 OF 2

Designed by: J.SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

THE EAST GROUP
230 ELKANS ST GREENVILLE, NC 27858 252-756-4746
NC ENGINEERING FIRM LICENSE NO. C-0299 NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL

SEAL

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

File: Q:\R\022715-02\30 CAD\1. Active_Greenville Town Commons\270103\B-602. Plotted: 2/18/2025 5:30 PM by MORGAN NEKOL. Saved: 2/10/2025 7:07 PM by MORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

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).

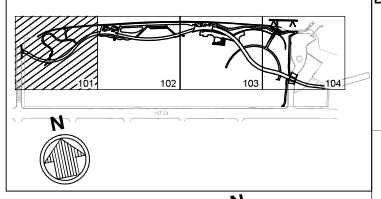
DEMOLITION LEGEND:

- 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)
- 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



N

20' 0' 20' 40'

SCALE: 1"=20'

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

Greenville NORTH CAROLINA

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	0

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 1 OF 4

Date: 2025-02-07 Rev. 0

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBA Project No. 22315-502
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO

mcfarlett & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-1105

THE EAST GROUP
330 ELANS ST
GREENVILLE, NC 27834
252-758-1746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427

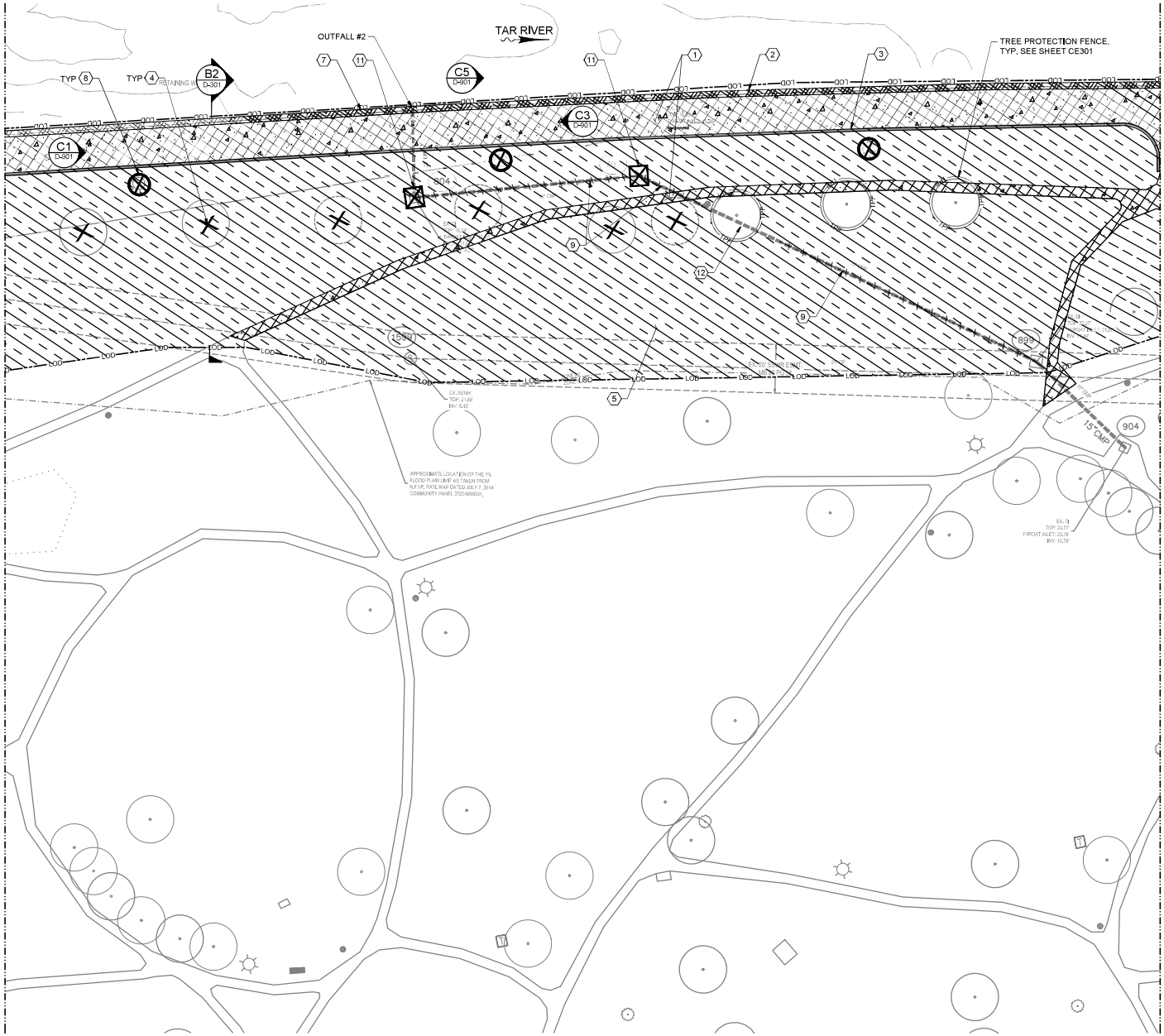
SEAL 02/21/2025

Sheet Reference No.
D-101

INDEX: 15 OF 114

File: Q:\RAL\22315-02\00 CADD_Active_Greenville Town Common\27015\D2-101.Plotted: 2/19/2025 5:31 PM by MORGAN, NEKOL. Saved: 2/19/2025 12:31 PM by MMORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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).

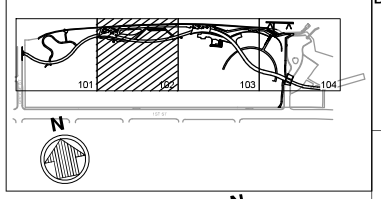
DEMOLITION LEGEND:

- 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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 2 OF 4

Date: 2025-02-07 Rev. 0
MBA Project No. 221315-02
Drawing code:
Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (B SHEET)
Plot date: 2/19/2025 5:31 PM by MORGAN, NEKOL
File: Q:\RALEIGH\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02\D-102.dwg

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

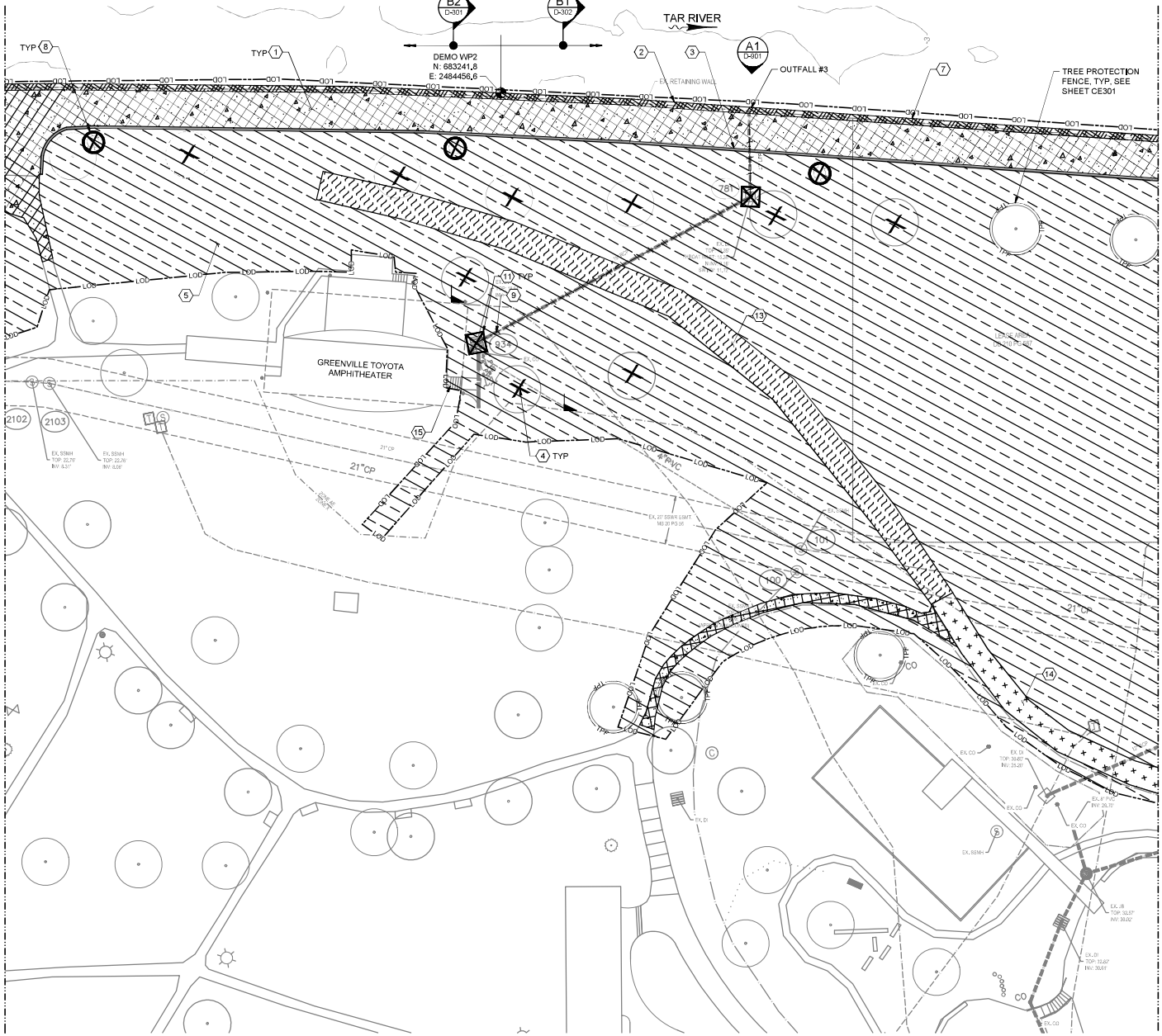
THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
919-779-1740
GREENVILLE, NORTH CAROLINA
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Development • Surveying

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025

SEAL

Sheet Reference No.
D-102
INDEX: 16 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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).

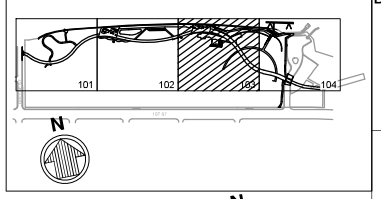
DEMOLITION LEGEND:

- 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

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	0

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 3 OF 4

Date: 2025-02-07 Rev. 0
MBA Project No. 221315-02
Drawing code:
Designed by: J. SWYERS
Dwn by: VNM
Chk by: MAP
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (IS SHEET)

mafatt & michel
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-341-8495
NC FIRM LICENSE NO. C-0105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Development • Surveying

SEAL 02/21/2025

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

File: Q:\RALE\221315-02\CD\CAD\Activel_Greenville Town Common\221315-02\D-103 Plotted: 2/18/2025 5:30 PM by MORGAN, NEKOL Saved: 2/18/2025 12:32 PM by MORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

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).

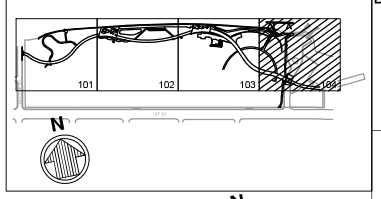
DEMOLITION LEGEND:

- 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

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	0

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PLAN SHEET 4 OF 4

Date: 2025-02-07 | Rev. 0
Designed by: J. SWYERS | Drawn by: VNM | Chk'd by: MAP
MBA Project No. 22131-02
Reviewed by: D. JACOBSON | Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

mcfarlett & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-0105

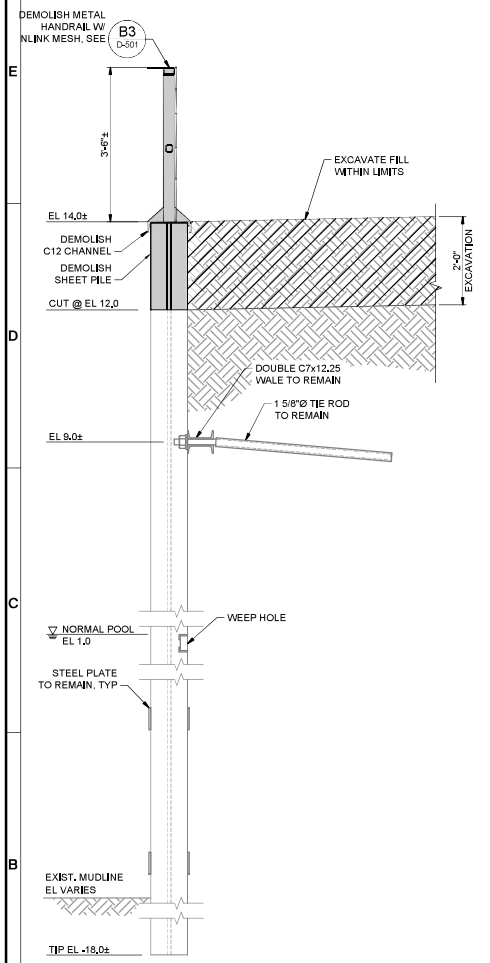
THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-756-2746
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL 02/21/2025

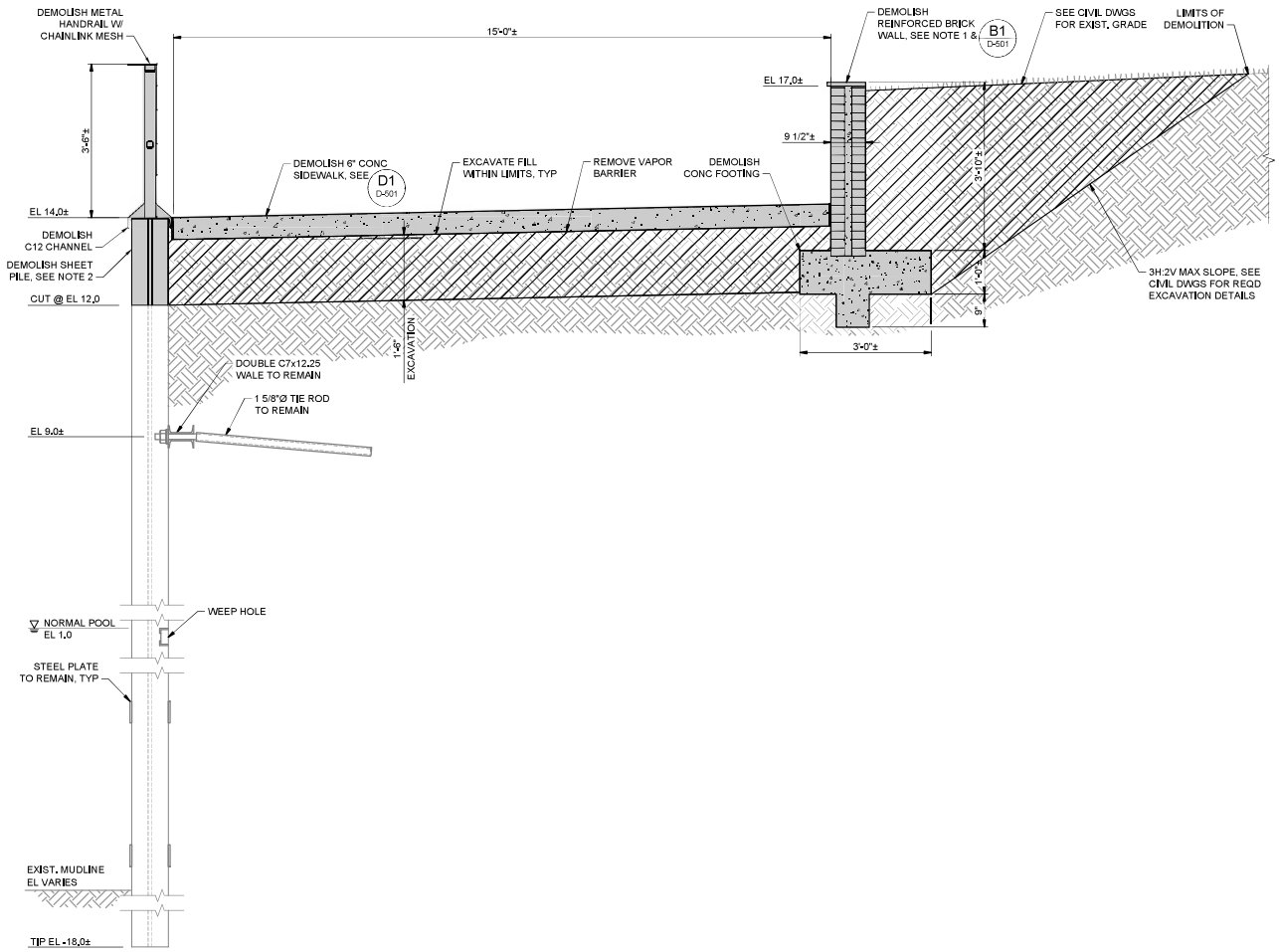
Sheet Reference No.
D-104
INDEX: 18 OF 114

File: Q:\RALE\2131-02\CD\CAD\L Achief\Greenville Town Common\2131-02\D-104 Plotted: 2/19/2025 5:37 PM by MORGAN NEROL Saved: 2/19/2025 12:53 PM by MNEROL

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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



B2 D-101 SECTION
D-102, D-103
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. 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

Rev.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION SECTION SHEET 1 OF 3

Designed by: J. SAWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Drawing Scale: AS SHOWN
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
330 EVANS ST
GREENVILLE, NC 27858
252-756-5456
Engineering • Surveying • Mapping

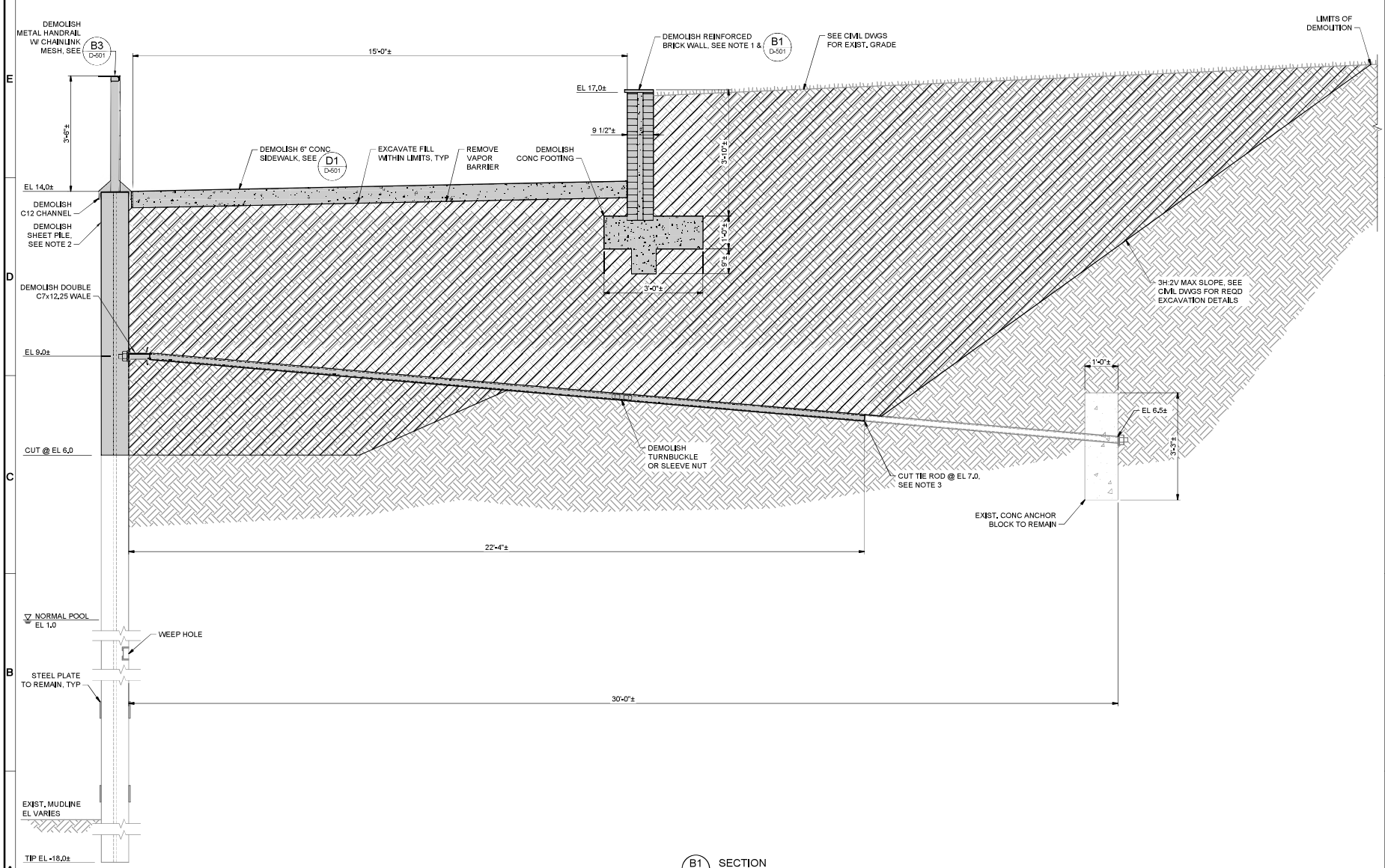
NORTH CAROLINA PROFESSIONAL SEAL 29077 ENGINEER JAMES H. SAWYERS
02/21/2025
SEAL

SEAL

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

File: Q:\RALE\221315-02\00 CADD_Active_Greenville Town Common\221315-02\D-301.dwg Plotted: 2/18/2025 3:03 PM by MORGAN, NEKOL Saved: 2/14/2025 3:23 PM by MORGAN, NEKOL

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



B1 D-103 SECTION
D-104
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. 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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description
3	2025-02-07	ISSUED FOR BID

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION SECTION SHEET 2 OF 3

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

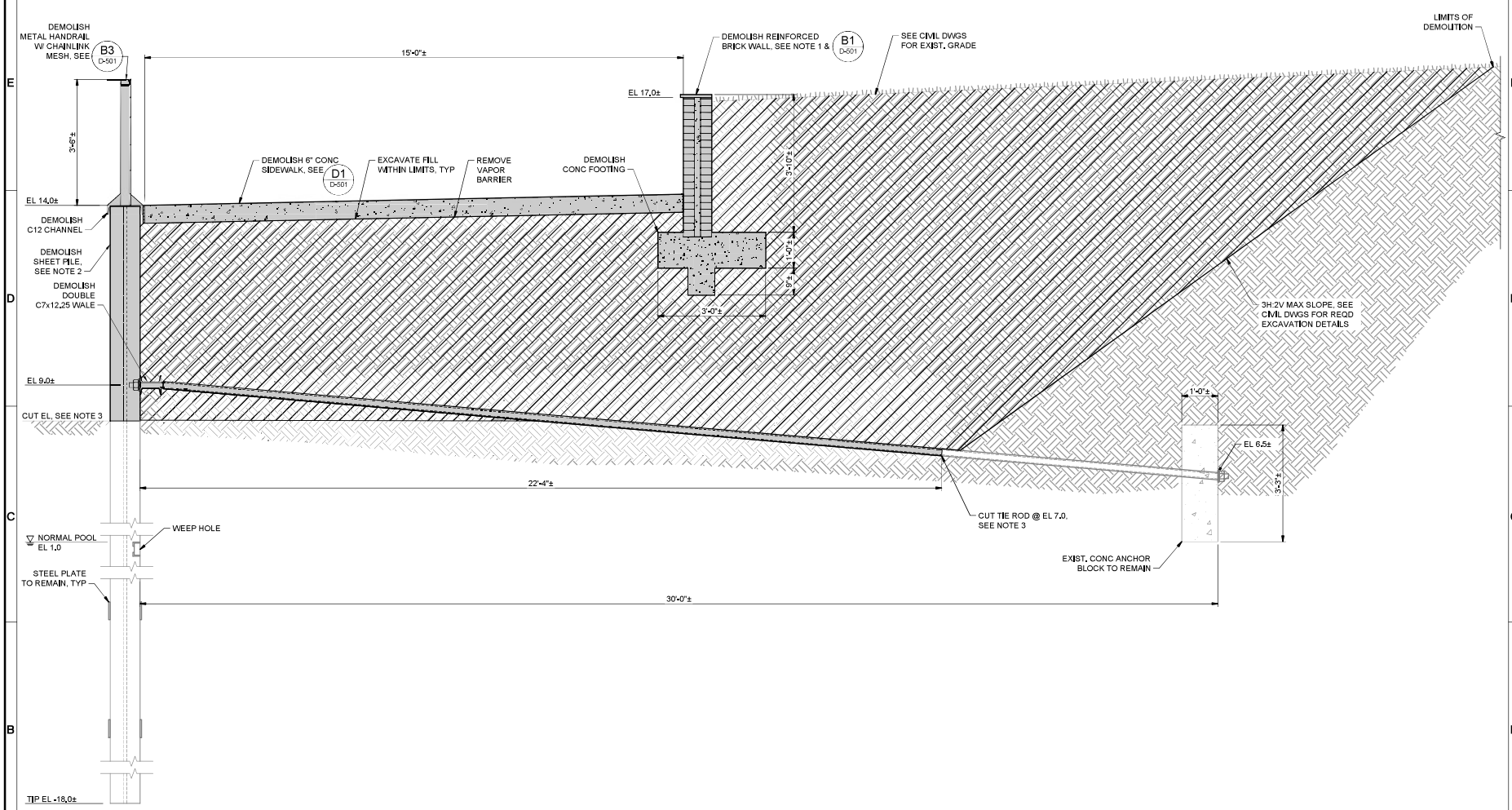
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 (919) 781-4626 NC FIRM LICENSE NO. C-1103

THE EAST GROUP
330 EVANS ST GREENVILLE, NC 27858 252-758-3456
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

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

File: Q:\R\022\315-02\00 CAD\01_Active_Greenville Town Common\127\315\02\D-302 Plotted: 2/18/2025 3:37 PM by MORGAN, NEKOL Saved: 2/14/2025 2:23 PM by MORGAN



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

No.	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	J.S

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION SECTION SHEET 3 OF 3

Date: 2025-02-07 Rev. 0
Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Drawing code:
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

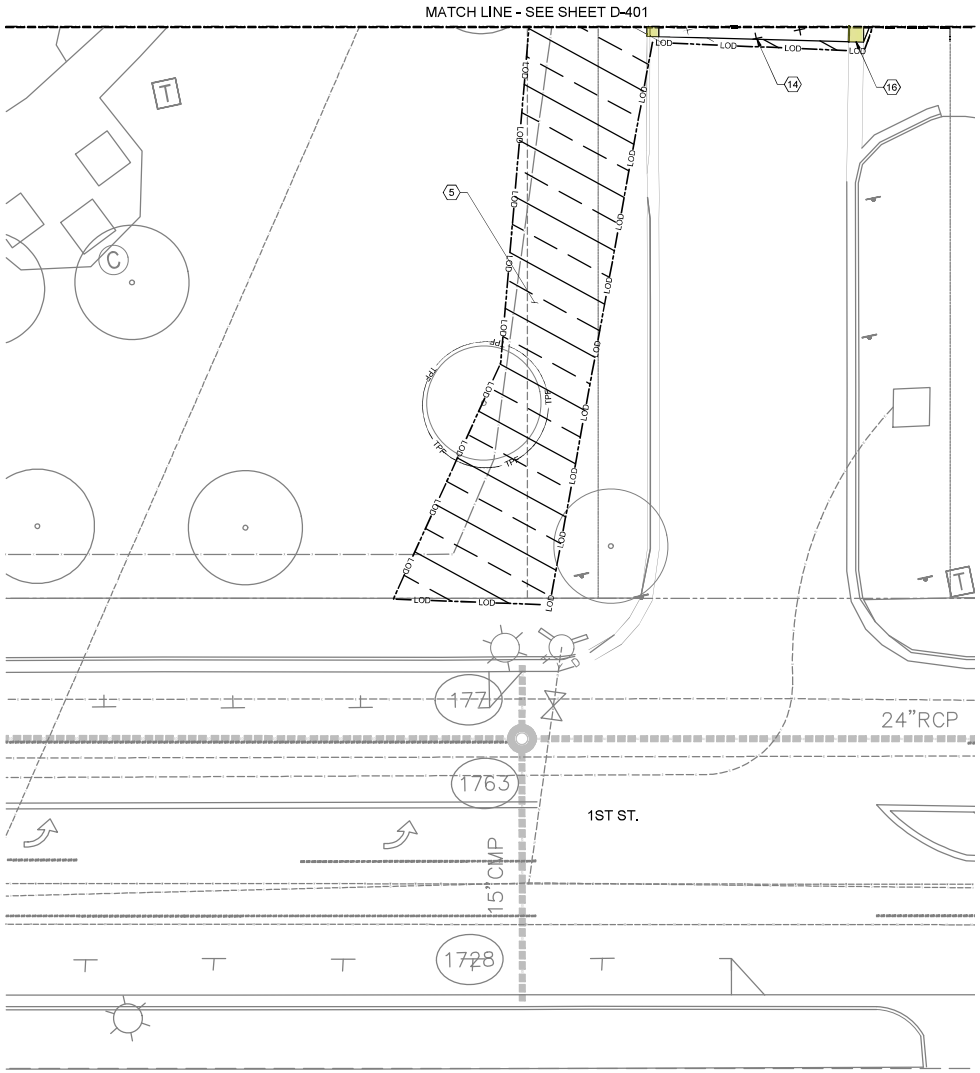
THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Planning • Surveying
330 EVANS ST
GREENVILLE, NC 27834
252-758-1246

NORTH CAROLINA PROFESSIONAL SEAL 29077 ENGINEER
02/21/2025
SEAL

SEAL

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

File: Q:\R\02215-02\00 CAD\01_Active_Greenville Town Common\1271\1\D303.dwg Plotted: 2/19/2025 5:24 PM by: MORGAN, NICHOL Saved: 2/19/2025 5:24 PM by: MORGAN, NICHOL



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).

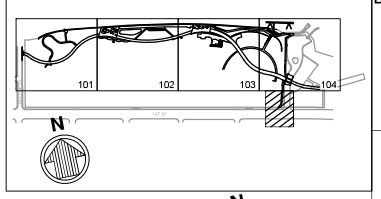
DEMOLITION LEGEND:

- 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

DEMOLITION KEY NOTES:

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



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.	Date	Description	Rev.
3	2025-02-21	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ENLARGED DEMOLITION PLAN

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO, MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALIGH 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
Civil Engineering • Land Development • Surveying
320 EVANS ST
GREENVILLE, NC 27858
252-758-1246

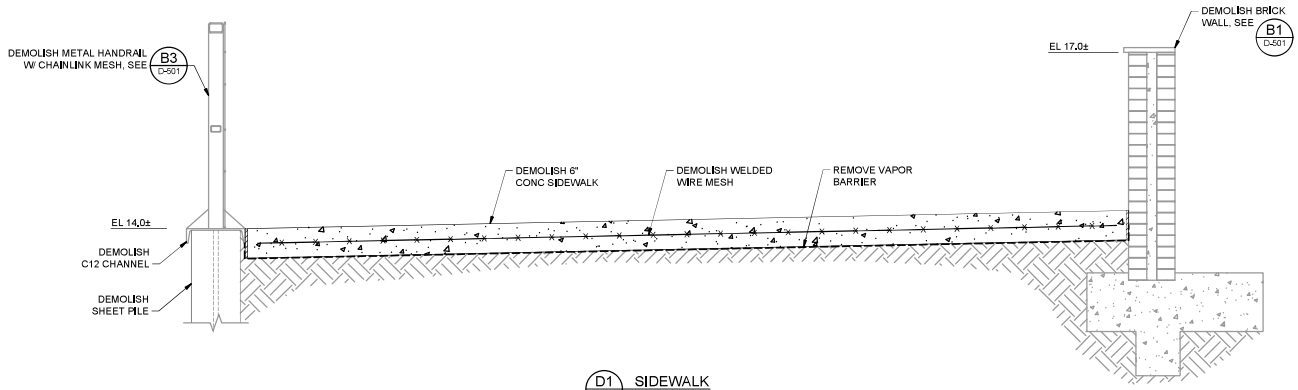
SEAL
02/21/2025

SEAL

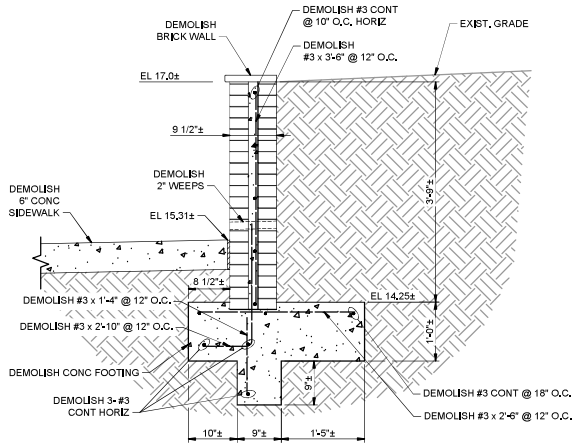
Sheet Reference No.
D-401
INDEX: 22 OF 114

File: Q:\R\022\315-02\00 CAD\01_Active_Greenville Town Common\127\D\D-401. Plotted: 2/19/2025 5:34 PM by MORGAN, NEKOL. Saved: 2/10/2025 5:28 PM by MORGAN, NEKOL

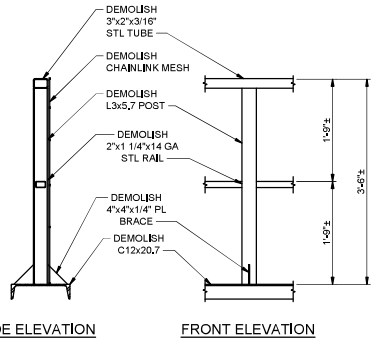
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



D1 D-301 SIDEWALK
D-302, D-303
SCALE: 1"=1'-0"



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



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

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

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	Rev.
3	ISSUED FOR BID	2025-02-07	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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
Transportation Engineering • Land Development Engineering
320 EVANS ST
GREENVILLE, NC 27858
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025
SEAL

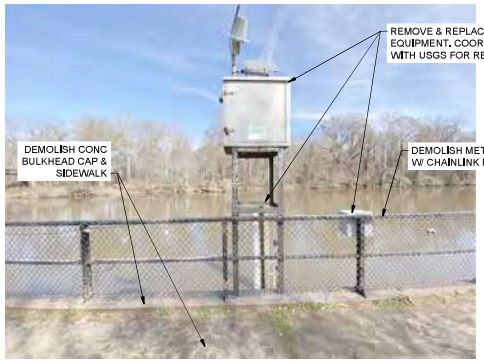
SEAL

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

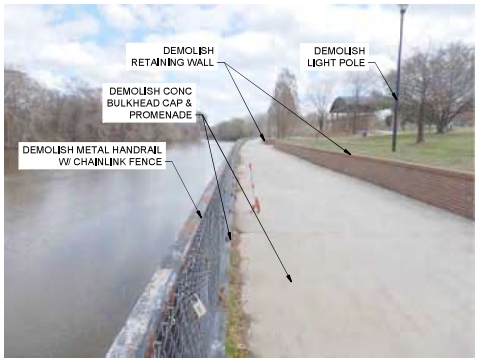
File: Q:\RALE\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02-D-501.dwg Plotted: 2/19/2025 5:34 PM by MORGAN, NEKOL Saved: 2/10/2025 6:10 PM by MORGAN, NEKOL

D1 D-101 DEMOLITION PHOTOGRAPH
SCALE: NTS

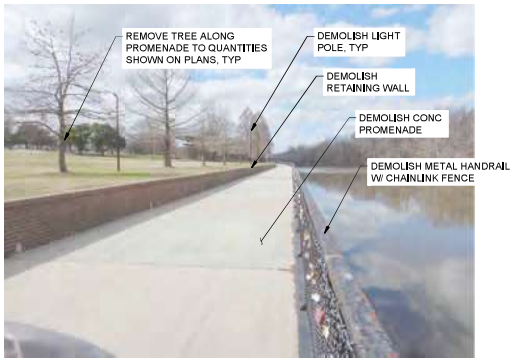
D3 D-101 DEMOLITION PHOTOGRAPH
SCALE: NTS



D5 D-101 DEMOLITION PHOTOGRAPH
SCALE: NTS



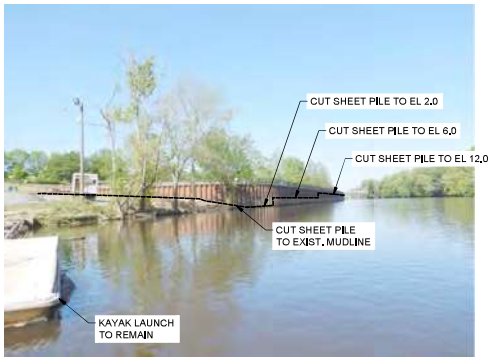
C1 D-102 DEMOLITION PHOTOGRAPH
SCALE: NTS



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

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.	Date	Description	Rev.
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEMOLITION PHOTOGRAPHS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mefferd & michel
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-8425
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
230 EVANS ST
GREENVILLE, NC 27834
252-756-2746
Geotechnical • Environmental • Construction Materials Testing

Drawn by: MARK PIRELLO
MOFFATT & NICHOL

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025
SEAL

SEAL

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

File: Q:\R\027315-02\00 CAD\01_Acitvel_Greenville Town Common\27315\02\D-901. Plotted: 2/18/2025 5:35 PM by MORGAN, NEKOL. Saved: 2/18/2025 2:28 PM by MORGAN, NEKOL

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 PROTECTON 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)

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & EDIPLANADE PROJECT

SITE PLAN NOTES

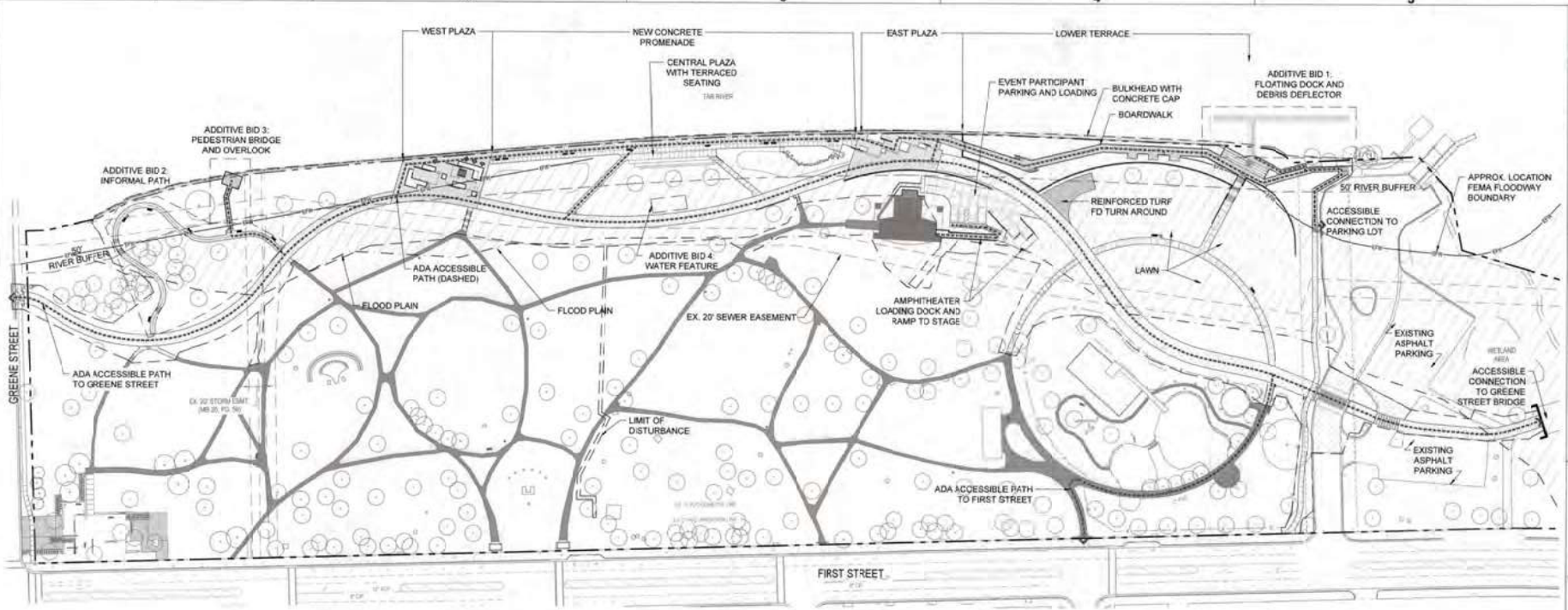
moffatt & nichol

THE LAST GROUP

SOUTH CAROLINA PROFESSIONAL SEAL 11/31/25

NORTH CAROLINA PROFESSIONAL SEAL 01.31.25

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



SITE DATA

(a)	TOTAL AREA IN SITE	19.92 ACRES
(b)	TOTAL AREA DISTURBED	5.46 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	27664 & 23187
	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	2.8% INCRTIASE

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Date	Description
2-7-25	ISSUED FOR BID
1-31-25	90% DESIGN REVIEW PLAN COMMENTS
11-13-24	60% DESIGN REVIEW

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

OVERALL SITE PLAN

Designed by: | Date: | Rev.
Drawn by: | Date for: | Mbid Project No. 221374-02
Reviewed by: | Drawing code:
Drawing Scale: AS SHOWN
PRINTED BY: MARK PRINELLE, MOFFATT & NICHOL
PRINT SCALE: 11 (D SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4691
NC FIRM LICENSE NO: F-0163

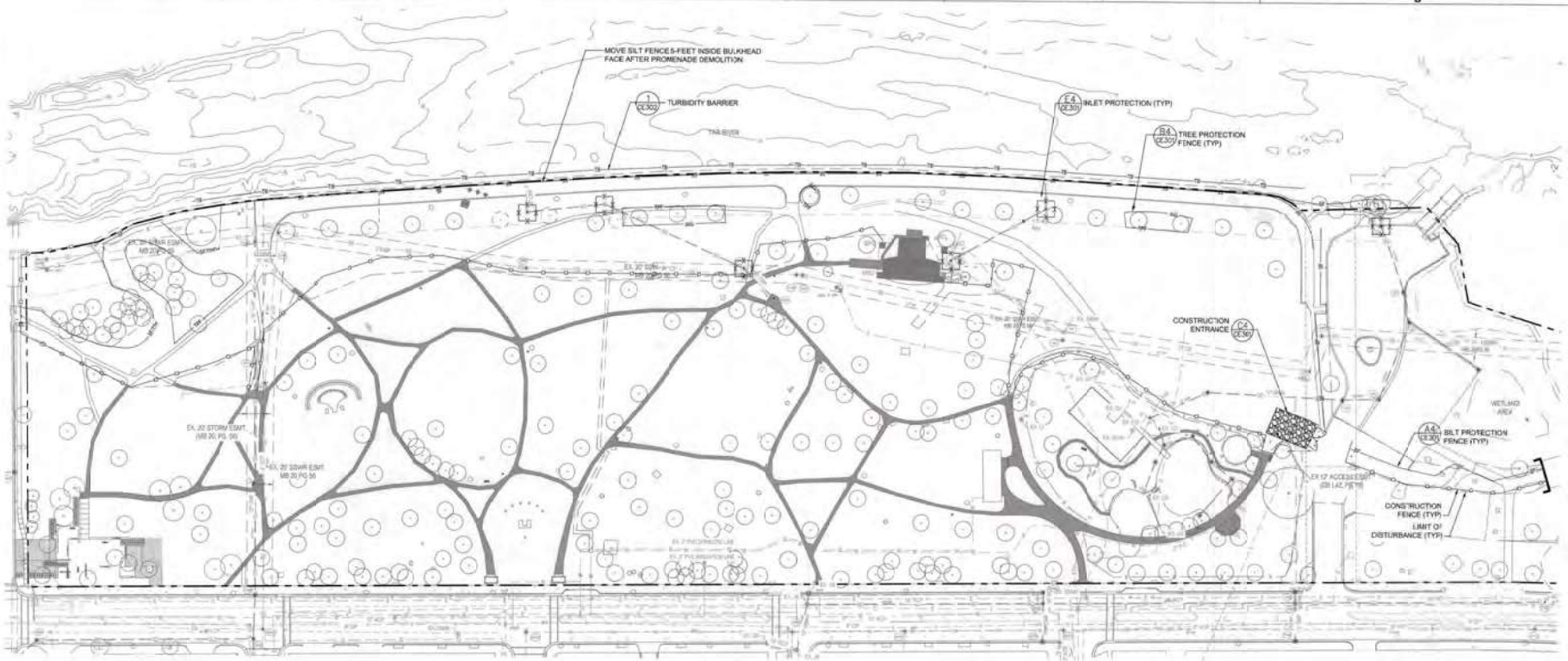
THE EAST GROUP
124 EDGE ST
GREENVILLE, NORTH CAROLINA
919-758-1338
NC ENGINEERING FIRM LICENSE NO: C-0206
NC LANDSCAPE FIRM LICENSE NO: C-427

SEAL: 1/31/25

SEAL: 01.31.25

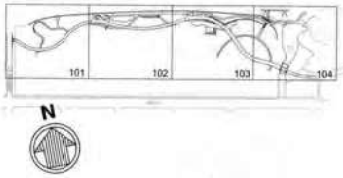
Sheet Reference No.
C-102
INDEX: 26 OF 114

File: K:\01_Projects\Greenville_City of\0221374\MN CSC Town Com Bulkhead\Dwg\3 Construction Plans\SHEETS\LA Sheet Set\C0226717_C-001_SITE - Plotted: 1/31/2025 3:02 PM by ALEX FLINT - Saved: 1/31/2025 2:31 PM by SHARON ROUSE



EROSION CONTROL LEGEND:

- SILT FENCE
- TREE PROTECTION
- 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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville
NORTH CAROLINA

A	100% CD FOR INTERNAL REVIEW	2022-12-29
B	ISSUED FOR BID	2025-02-07
C	CCBG PER PLAN REVIEW COMMENTS	2025-01-31

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PRELIMINARY EROSION CONTROL PLAN

moffatt & nichol

THE LANDTAMER GROUP

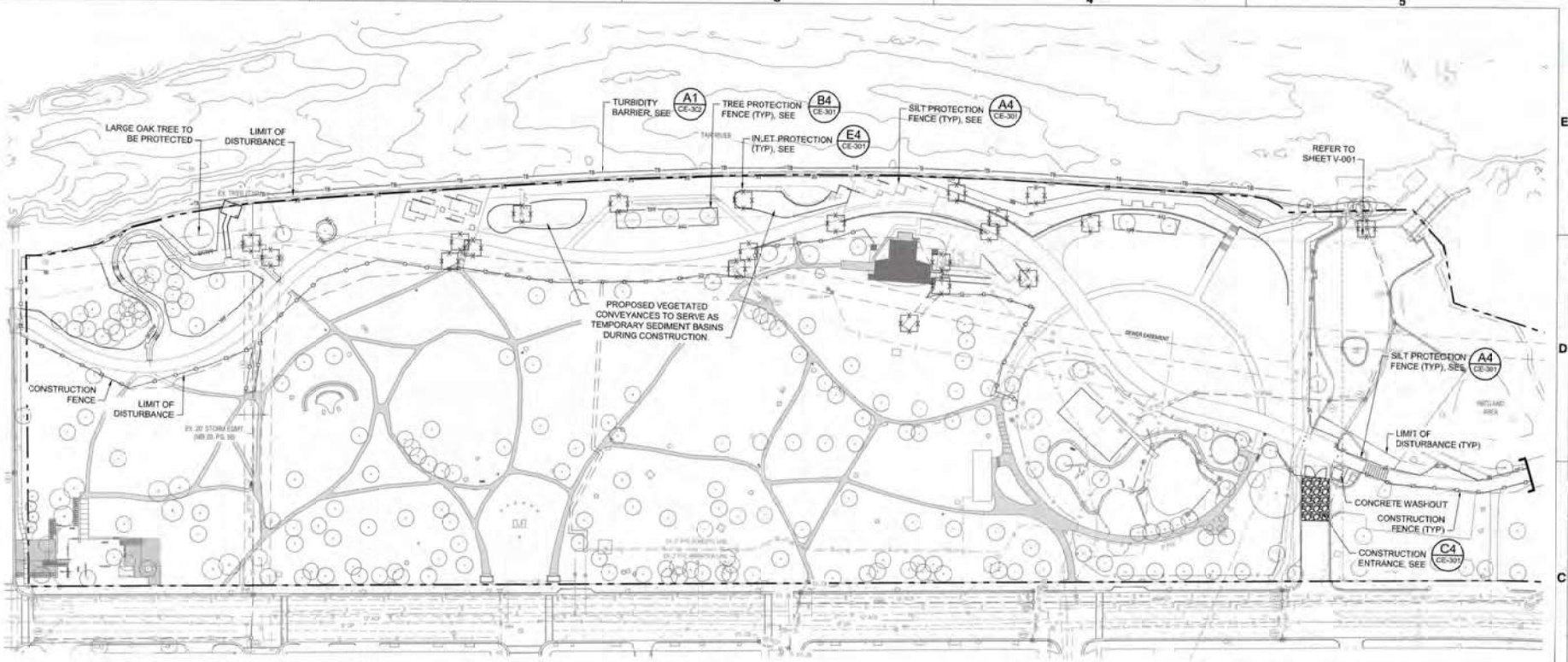
SEAL 1/31/25

SEAL 01.31.25

Sheet Reference No.
CE101

INDEX 27 OF 114

File: K:\01_Projects\Greenville, City of\0250217 MBN CDG Town Commons Bulkhead\dwg\C Construction Plans\SHEETS\LA Sheet Sets\0250217_CE101_EROS_PREIM_Plotted: 1/31/2025 3:53 PM by ALEX FLINT, Saved: 1/29/2025 2:11 PM by COLLEEN BANGLE

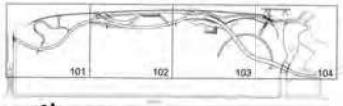


EROSION CONTROL LEGEND:

- SILT FENCE
- TREE PROTECTION
- 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
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & DRAINAGE PROJECT

POST EROSION CONTROL PLAN

mattatt & nichol

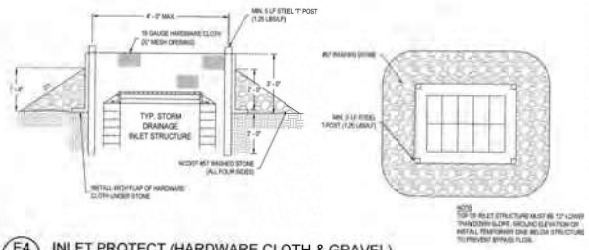
THE EAST GROUP

SEAL 1/31/25

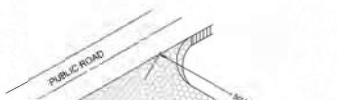
SEAL 01.31.25

Sheet Reference No.
CE102

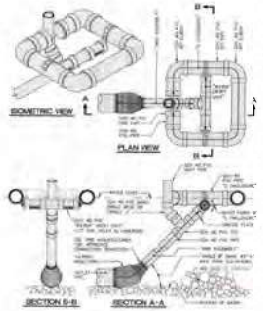
INDEX 28 OF 114



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



C4 CE-301 CONSTRUCTION ENTRANCE
SCALE: NTS



C5 CE-301 SKIMMER DETAIL
SCALE: NTS

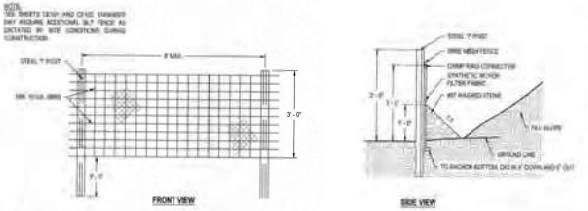
TREE PROTECTION AREA

Maintenance storage, construction parking, or storage of any materials is prohibited.

Protective tree fencing is required to be intact for the duration of construction.

TREE PROTECTION SIGN
- SHALL BE ALL-WEATHER MATERIAL
- SHALL BE MINIMUM 12"X12"
- MULTIPLE SIGNS MAY BE REQUIRED TO ENSURE VISIBILITY FROM ALL DIRECTIONS (IF TREE PROTECTION ZONE)

B4 CE-301 TREE PROTECTION FENCE
SCALE: NTS



A4 CE-301 SILT FENCE
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

NO.	DESCRIPTION	DATE
A	65% CLIENT REVIEW	
B	PROJECT FILE SET	
C	PROJECT FILE SET TO TOWN COMMENTS	
D	CONTRACT PLAN REVIEW	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

EROSION CONTROL DETAILS

Date: 1/13/2025
MBA Project No.: 221315-02
Drawing Scale: AS SHOWN
Date Plotted: 1/13/2025 3:03 PM
Designed by: MP
Drawn by: DR
Reviewed by: DR
Approved by: DANIEL FIORELLO
MOFFATT & NICHOL

mofatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
PHONE (919) 781-4626
NC FIRM LICENSE NO. F-0159

THE WEST GROUP
124 EVANS ST
GREENVILLE, NORTH CAROLINA
252-756-7140
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-421

SEAL 1/31/25

SEAL 01.31.25

Sheet Reference No.
CE301
INDEX: 29 OF 114

File: E301-Projects-Greenville, City of-221315-02 TWN Com Rulhnes-Dwg C Construction Plans-Sheet Set-221315-02-CE101, EROS, POST, Pulled: 1/31/2025 3:03 PM by: ALEX PLANT - Saved: 1/31/2025 8:31 AM by: COLLEEN BANGLE

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:

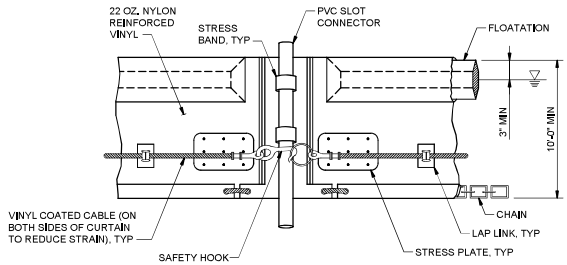
1. CARE SHOULD BE TAKEN TO PROTECT THE SKIRT FROM DAMAGE AS THE TURBIDITY CURTAIN IS DRAGGED FROM THE WATER.
2. IF THE CURTAIN IS TO BE REUSED AT THE SITE, THE AREA SELECTED TO BRING THE CURTAIN ASHORE SHOULD BE FREE OF SHARP ROCKS, BROKEN CEMENT, DEBRIS, ETC SO AS TO MINIMIZE DAMAGE WHEN HAULING THE 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.

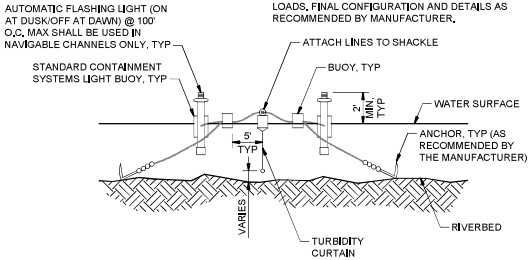
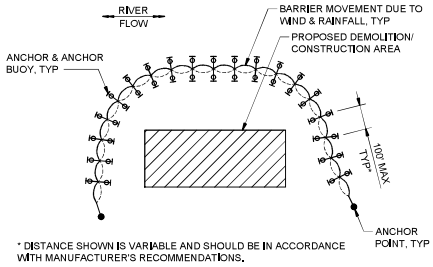


FIGURE 1 - SECTION



* 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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Drawn
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TURBIDITY CURTAIN NOTES & DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 22131-502
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRRELLO
Drawing scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 919-341-8425 NC FIRM LICENSE NO. F-0105

THE EAST GROUP NC ENGINEERING FIRM LICENSE NO. C-0208 NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL

SEAL

Sheet Reference No.
CE302
INDEX: 30 OF 114

File: Q:\RAL\22131-502\0 CADD_Active_Greenville Town Common\22131502-CE302 Plotted: 3/18/2025 5:35 PM by MORGAN, NEKO, Saved: 1/20/2025 9:16 PM by MORGAN

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

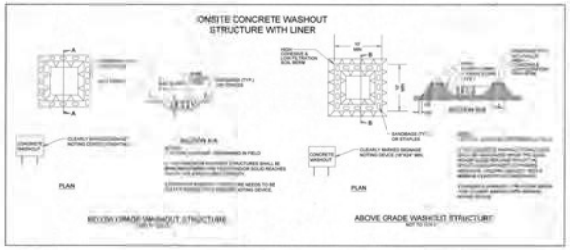
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, 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.



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

GREENVILLE TOWN COMMONS & REHABILITATION PROJECT

GROUND STABILIZATION AND MATERIALS HANDLING

moffatt & nichol

THE EAST GROUP

SEAL 1/31/25

SEAL 01.31.25

Sheet Reference No.
CE303

INDEX 31 OF 114

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 [redacted] 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

GREENVILLE TOWN COMMONS & EXPLANADE PROJECT

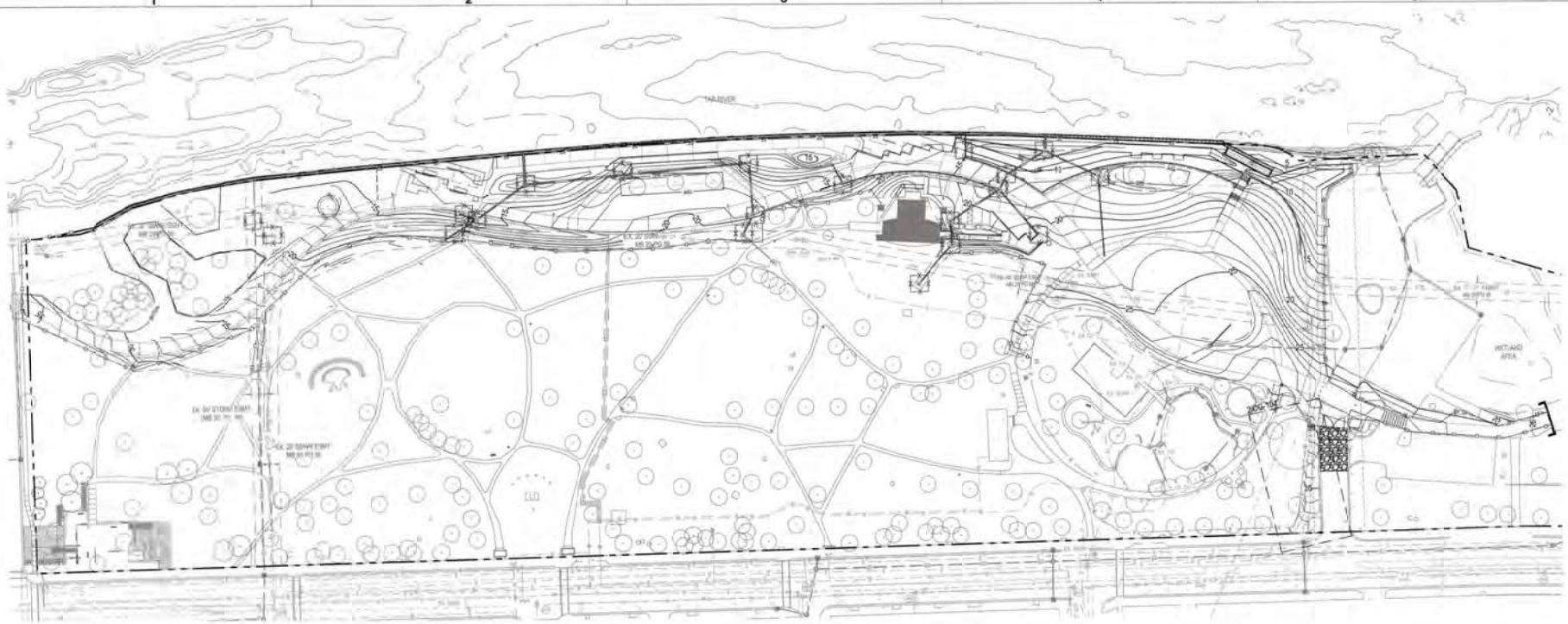
SELF-INSPECTION, RECORDKEEPING AND REPORTING NOTES

moffatt & nichol

THE EAST GROUP

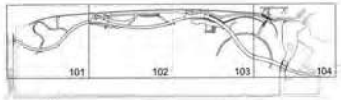
Sheet Reference No.
CE304

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

REVISION DATE			
A	90% CITY/OR INTERNAL REVIEW		

ISSUED FOR BID			
A	BID SUBMIT FOR CITY SITE PLAN COMMENTS	02/07/25	
A	CDG SITE PLAN REVISION	11/27/24	
MARK	DESCRIPTION	DATE	BY

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

OVERALL GRADING & DRAINAGE PLAN

Designed by: TAP
Drawn by: SD
Checked by: SD
Date: 11/27/2024
Scale: 1"=60'
MBP Project No: 221018-02
Drawing name:
Drawing Scale: 24X36 (ARCH D)
Plot date: 1/31/2025 (BY SHEET)

moffatt & nichol
8 FOO FOLLS OF NEWS INC. 28 FTS 300
919-781-4626
NC FIRM LICENSE NO C-0205

THE EAST GROUP
224 S DUKE ST
GREENVILLE, NC 27834
252-329-3140
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-457

MARK FERRELL
NC# 21215 & NC# C-0205

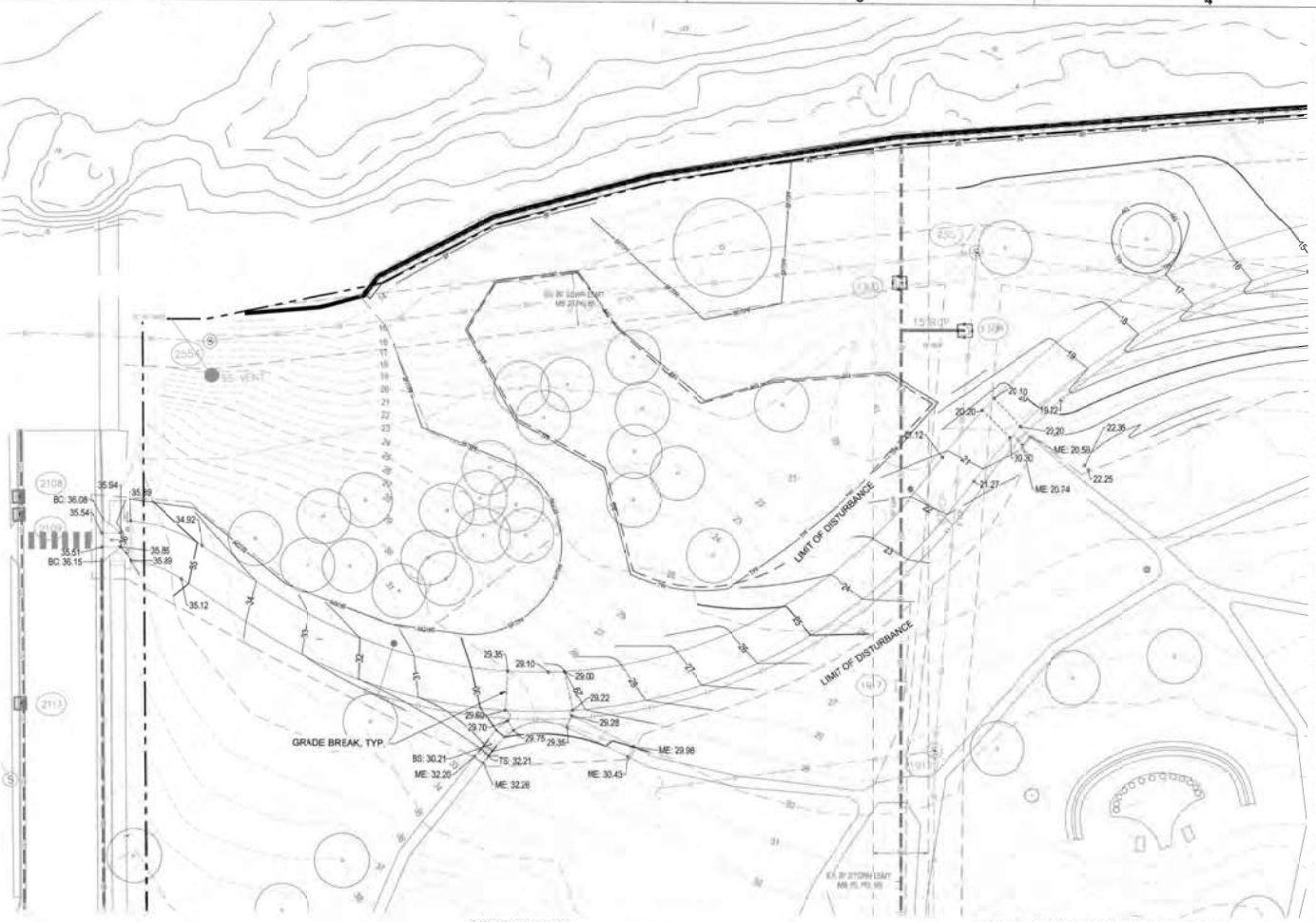
1/31/25

01/31/25

Sheet Reference No.
CG100

INDEX: 33 OF 114

File: K:\GT_Projects\Greenville, City of\2022\2217 MAIN COG Town Com Buildings\Design\Construction Plans\SHEETS\LA Sheet Sets\2022\2217_C-101_GRAD - Plotted: 1/31/2025 5:04 PM by ALEX FLINT - Saved: 1/31/2025 1:14 PM by ALEX FLINT



STORM SYSTEM DATA							
INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.75	4.61%	1	8"	HDPE	7.80
13.62	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.78%	3	10"	HDPE	21.12
15.00	10.21	9.60%	4	12"	RCP	46.00
10.21	7.35	4.00%	5	15"	RCP	70.66
5.84	0.50	13.05%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	266.24
13.90	12.78	1.12%	8	4"	HDPE	22.37
15.89	12.78	1.17%	9	6"	HDPE	21.40
12.19	9.16	4.66%	10	15"	RCP	61.81
17.68	14.18	12.65%	11	18"	RCP	26.14
13.75	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	7.28
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.54%	16	12"	HDPE	50.85
18.71	18.22	1.78%	17	12"	HDPE	27.77
18.22	13.71	3.57%	18	18"	RCP	58.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.96	10.64	9.20%	20	18"	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	8.60%	23	10"	HDPE	94.05
23.19	22.25	2.73%	24	6"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	2.85%	26	6"	HDPE	17.66

STORM STRUCTURE TABLE				
STRUCTURE	RIM EL	STRUCTURE IN	INVERT IN	INVERT OUT
DI-1	20.50			15.00
DI-2	15.96	DI-1 YI-1	10.21 10.21 13.11	10.21
DI-3	18.40	DI-5	14.15	12.18
DI-4	21.95			17.90
DI-5	18.00			13.25
DI-7	22.00			17.71
DI-8	22.29	DI-7	18.71	18.71
DI-9	21.79	DI-8	16.23	16.23
DI-10	16.29	DI-9 YI-8	13.71 13.71	12.58
DI-11	17.88	DI-10	10.64	7.94
DI-12	18.98	YI-2	10.50	7.50
DI-13	8.80	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	12.00	DI-4	8.10	8.10
OUTLET STRUCTURE-2	12.79	DI-2 OUTLET STRUCTURE-1	7.35 7.84	6.84
YI-1	15.00			11.00
YI-2	22.60			18.00
YI-3	25.40			23.18
YI-4	12.50		10.00	8.00
YI-5	14.60		12.75	
YI-6	16.10			14.42
YI-7	13.88	YI-4	7.50	7.84

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		
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK		INLET PROTECTION
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		
INV.	INVERT				

NOTE

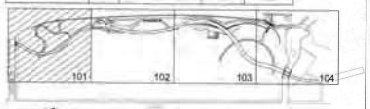
REFER TO SHEET CG100 FOR GRADING NOTES

EXISTING STORM DRAINAGE STRUCTURE TABLE

- (1917) DI TOP = 26.9 ± THROAT INLET = 26.21 INV = 17.71
- (2108) CB HOOD = 34.78 INV = 31.33
- (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 = 9.82
- (755) SSMH TOP = 17.08 NV INACCESSIBLE



N

N

20' 0' 20' 40'

SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (WEST)

mattatt & nichol

THE FIRST GROUP

SEAL 1/31/25

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1844 KATHLEEN BURKE

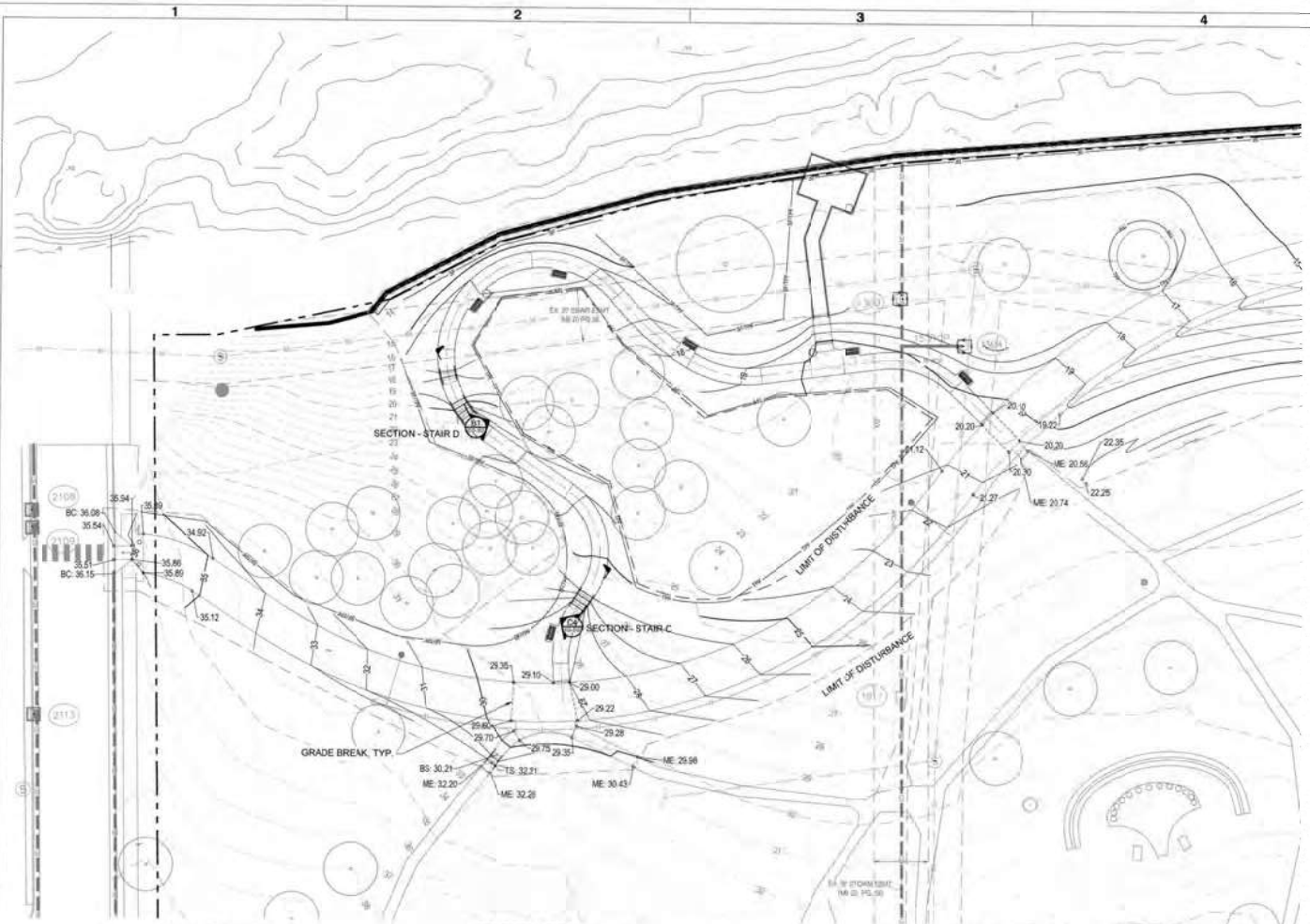
01.31.25

Sheet Reference No.

CG101

INDEX 34 OF 114

File: K:\01_Projects\Greenville_City of\2022\0177 MAIN CORE Town Core Building\02 Construction Plans\REF FIGS & Sheet Sets\2025\0177_C-101_GRAD - Plotted: 1/31/2025 3:04 PM by ALEX FLINT - Saved: 1/31/2025 1:14 PM by ALEX FLINT



GRADING PLAN FOR ADDITIVE BID 2

STORM SYSTEM DATA						
INV IN	INV OUT	SLOPE	PIPE	SIZE	MATERIAL	LENGTH
13.11	12.35	4.81%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	4"	HDPE	7.61
11.00	10.21	3.78%	3	10"	HDPE	21.12
15.00	10.21	9.80%	4	12"	RCP	48.90
10.21	7.34	4.00%	5	18"	RCP	70.88
5.84	0.56	13.68%	6	24"	RCP	39.10
9.16	7.84	0.50%	7	18"	RCP	299.24
13.00	12.75	1.12%	8	4"	HDPE	22.37
13.06	12.75	1.17%	9	8"	HDPE	21.40
12.18	9.18	4.86%	10	15"	RCP	81.61
17.46	14.15	12.65%	11	15"	RCP	28.14
13.29	13.10	0.94%	12	12"	RCP	25.71
13.05	13.00	0.44%	13	8"	HDPE	11.49
11.31	10.00	17.69%	14	6"	HDPE	7.38
7.50	5.38	2.08%	15	10"	HDPE	106.11
17.71	16.71	1.64%	16	12"	HDPE	60.85
18.71	18.22	1.78%	17	12"	HDPE	27.77
15.22	13.71	3.62%	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	4.36%	21	15"	RCP	51.97
7.50	5.38	3.80%	22	12"	RCP	70.58
18.02	10.56	9.00%	23	10"	HDPE	94.05
23.18	22.25	2.72%	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 IN	INVERT OUT
DI-1	20.50			15.00
DI-2	19.50	DI-1 YI-1	10.21 10.21 13.17	10.21
DI-4	16.40	DI-3	14.15	13.15
DI-5	21.50			17.46
DI-6	19.00			13.05
DI-7	22.50			17.71
DI-8	22.25	DI-7	18.71	18.71
DI-9	21.78	DI-8	18.22	18.22
DI-10	18.28	DI-9 YI-8	13.71 13.71	12.56
DI-11	17.48	DI-10	10.64	7.64
DI-12	16.98	YI-12	12.50	7.50
DI-13	9.86	DI-11 DI-12 YI-7	5.38 5.38 5.38	5.38
OUTLET STRUCTURE-1	13.00	DI-14	9.16	8.16
OUTLET STRUCTURE-3	12.75	DI-2 OUTLET STRUCTURE-1	7.34 7.34	6.84
YI-1	18.00			11.00
YI-2	22.60			18.00
YI-3	23.40			23.18
YI-4	13.53		13.00	9.00
YI-5	14.60		13.75	
YI-6	18.15			14.40
YI-7	13.40	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		
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		
INV.	INVERT				

NOTE

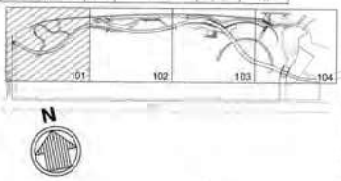
REFER TO SHEET CG100 FOR GRADING NOTES

EXISTING STORM DRAINAGE STRUCTURE TABLE

1917	DI TOP = 26.5 ± 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 = 34.86 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

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (WEST) - ALTERNATE A

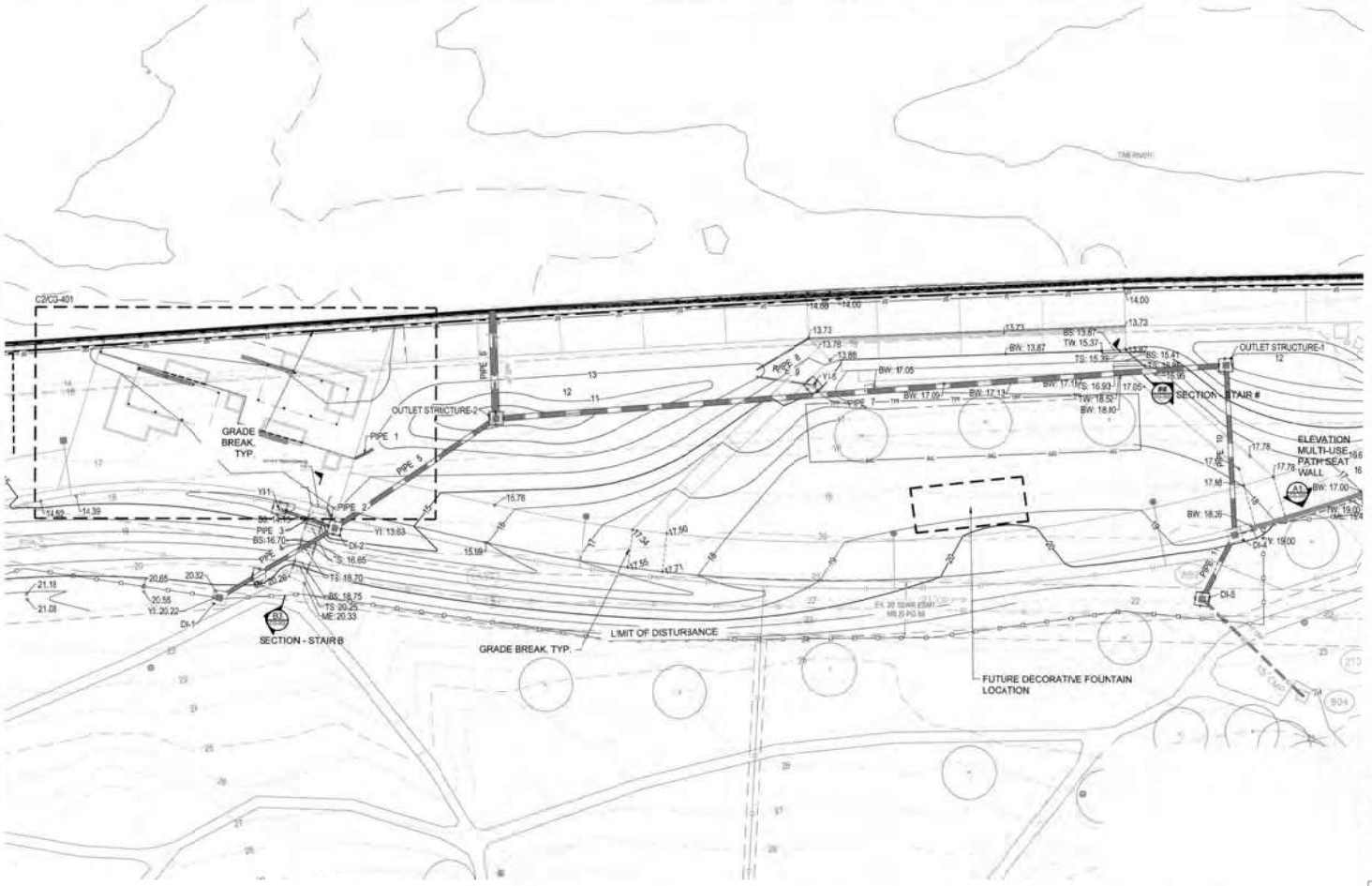
moffatt & nichol

THE EAST GROUP

Sheet Reference No.
CG101A

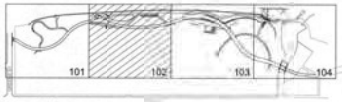
INDEX 34A OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING



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	45.90
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	6.50%	7	18"	RCP	395.24
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	18"	RCP	51.51
17.46	14.15	12.65%	11	18"	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	8"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	15.71	1.64%	16	12"	HDPE	80.85
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	20.66
7.64	5.38	4.35%	21	15"	RCP	51.87
7.50	5.38	3.00%	22	12"	RCP	73.55
18.02	10.50	8.00%	23	10"	HDPE	44.00
20.18	22.25	2.73%	24	8"	HDPE	34.04
5.38	0.50	25.91%	25	34"	RCP	18.14
8.00	7.50	2.85%	26	8"	HDPE	17.58

STORM STRUCTURE TABLE				
STRUCTURE	RIM EL	STRUCTURE IN	INVERT IN	INVERT OUT
DI-1	20.50			19.08
DI-2	15.00	DI-1 YI-1	13.21 13.21 13.17	10.21
DI-4	18.40	DI-5	14.13	12.18
DI-5	21.50			13.48
DI-6	15.00			13.28
DI-7	22.00			17.71
DI-8	22.25	DI-7	16.71	16.71
DI-9	21.79	DI-8	16.23	16.23
DI-10	18.25	DI-9 YI-8	13.71 13.71	10.58
DI-11	17.88	DI-10	10.84	7.84
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	0.38
OUTLET STRUCTURE-1	13.00	DI-4	9.18	9.18
OUTLET STRUCTURE-2	12.75	DI-7 OUTLET STRUCTURE-1	7.84 7.84	6.84
YI-1	15.00			11.00
YI-2	22.60			18.53
YI-3	25.80			23.18
YI-4	13.50		10.00	8.00
YI-5	14.80		12.78	
YI-6	18.15			14.40
YI-7	13.85	YI-4	7.60	7.60



N

N

20' 0' 20' 40'

SCALE: 1"=20'

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		
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 = 21.88
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

REVISIONS	
DATE	DESCRIPTION
01-31-25	ISSUED FOR BID
12-20-24	PLANNING FOR DEVELOPER COMMENTS
11-15-24	DEVELOPER REVIEW

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (CENTER-WEST)

moffatt & nichol

THE EAST GROUP

SEAL 1/31/25

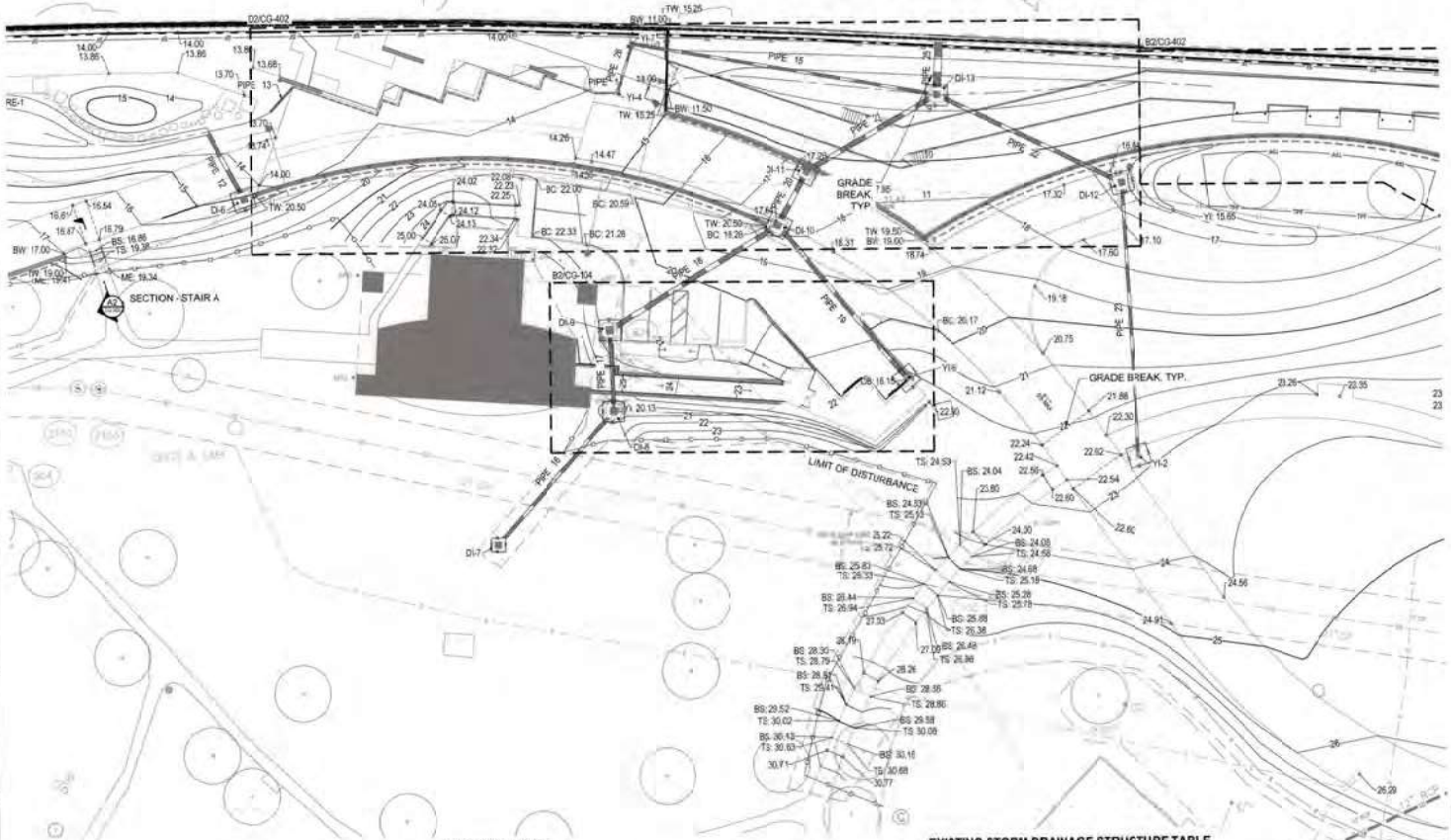
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN BRUNE

SEAL 01.31.25

Sheet Reference No.
CG-102

INDEX: 35 OF 114

File: 6:\01_Projects\Greenville_City of\32220117 MBN C\00 Town Commons Buildings\03 Construction Plans\SHEETS\A Sheet Set\CG\32220117_C-101_GRAD.rtBlank 1/31/2025 3:38 PM by: ALEX.FLINT; Saved: 1/31/2025 1:14 PM by: ALEX.FLINT

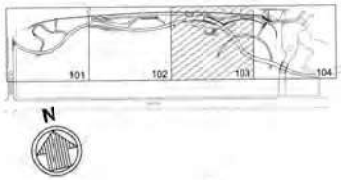


STORM SYSTEM DATA

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	3.78%	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	13.85%	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	12.83%	11	15"	RCP	28.14
13.35	13.10	0.58%	12	12"	RCP	25.71
13.08	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.69%	14	8"	HDPE	7.39
7.50	5.38	2.00%	15	10"	HDPE	106.11
17.71	16.71	1.84%	16	12"	HDPE	60.89
16.71	16.22	1.78%	17	12"	HDPE	27.77
16.22	13.71	3.87%	18	15"	RCP	68.40
14.40	13.71	1.01%	19	12"	RCP	68.88
12.58	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	70.88
18.02	10.50	8.00%	23	10"	HDPE	84.05
23.16	22.28	2.73%	24	6"	HDPE	34.04
5.38	0.50	20.81%	25	24"	RCP	18.14
8.00	7.50	2.65%	26	6"	HDPE	17.36

STORM STRUCTURE TABLE

STRUCTURE	RIM EL.	STRUCTURE IN	INVERT IN	INVERT OUT
DI-1	25.50			15.00
DI-2	18.00	DI-1 YI-1	10.21 10.21 13.11	13.21
DI-4	16.40	DI-5	14.12	12.15
DI-5	21.50			17.46
DI-6	15.00			12.58
DI-7	23.00			17.71
DI-8	22.25	DI-7	18.71	16.71
DI-9	21.79	DI-8	16.22	16.22
DI-10	18.25	DI-9 YI-6	13.71 13.71	13.08
DI-11	17.88	DI-10	10.64	7.64
DI-12	18.88	YI-2	10.50	7.50
DI-13	9.88	DI-11 DI-12 YI-7	5.38 5.38 5.38	1.38
OUTLET STRUCTURE-1	15.00	DI-4	9.13	5.13
OUTLET STRUCTURE-2	13.75	DI-2 OUTLET STRUCTURE-1	7.84 7.84	5.84
YI-1	13.00			11.00
YI-2	22.50			18.02
YI-3	23.00			23.16
YI-4	13.50		13.00	8.00
YI-5	14.00		12.75	
YI-6	16.15			14.40
YI-7	13.00	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		
EP	EDGE OF PAVEMENT	TA	TOP OF ASPHALT
EX.	EXISTING	TC	TOP OF CONCRETE
FE	FINISHED ELEVATION	TS	TOP OF STAIR
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK
FL	FLOW LINE	TW	TOP OF WALL
FOCB	FIBER OPTIC CABLE BOX	TYP.	TYPICAL
HP	HIGH POINT (OF SWALE, TYP)	YI	YARD INLET
INV.	INVERT		

x 25.00 — EX. SPOT ELEVATION
25 — EXISTING CONTOUR
SD — EX. STORM DRAIN
PROPOSED STORM PIPE
X — SILT FENCE
LIMITS OF DISTURBANCE
25 — PROPOSED CONTOUR
RD — PROPOSED ROOF DRAIN
INLET PROTECTION
GRADE BREAK

NOTE

REFER TO SHEET CG100 FOR GRADING NOTES

EXISTING STORM DRAINAGE STRUCTURE TABLE

(904) DI TOP = 24.77
THROAT INLET = 23.79
INV = 18.79

(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 = 24.00
BOTTOM = 12.31
(APPEARS TO BE ABANDONED)

(101) SSMH TOP = 23.48
NW SERV. = 15.38
INV = 7.83

N

20' 0' 20' 40'
SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

	DATE	DATE
4	100% CLIENT INTERNAL REVIEW	
3	ISSUED FOR BID	
2	90% CLIENT REVIEW SET(S) PLAN CONMENTS	12/13/24
1	CDG UPD PLAN REVIEW	11/01/24
No.	Description	Date

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (CENTER-EAST)

Date: 11/01/2024 | Rev.
Drawing No. DR | Date Rev. | Drawn by MR | AWS Project No. 2021-0142
Checked by DR | Date Chk. 3/21 | Approved by DR | Drawing date AS SHOWN
Plot scale: 1:1 (D SHEET) | Scale: AS NOTED
Submitted to: GREENVILLE (1) MOFFATT & NICHOL

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. F-1018

THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834
NC ENGINEERING FIRM LICENSE NO. C-0206
NC LANDSCAPE FIRM LICENSE NO. C-0477

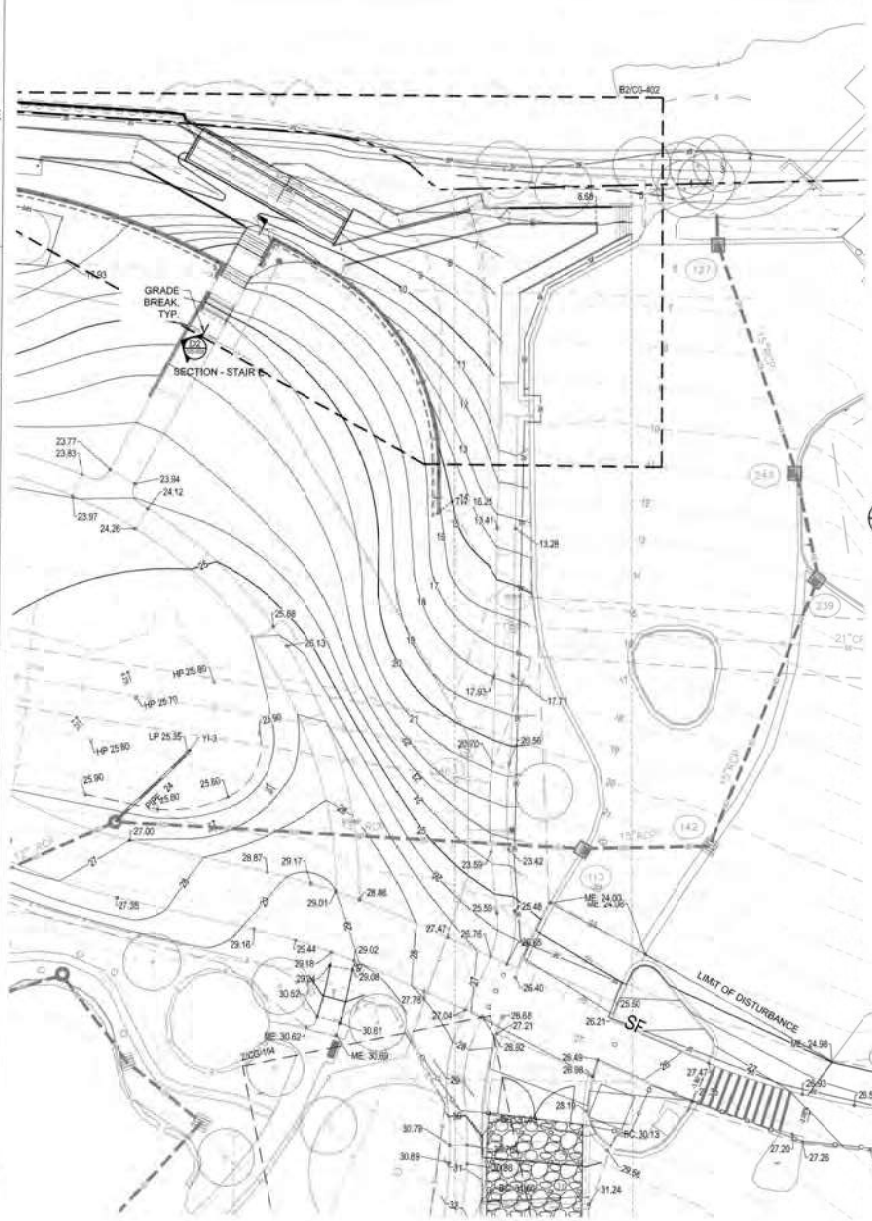
SEAL 1/31/25

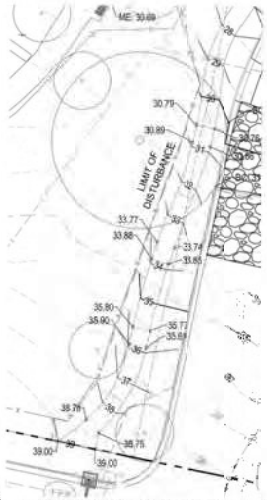
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18410 KATHLEEN ROSE
SEAL 01.31.25

Sheet Reference No.
CG-103

INDEX: 36 OF 114

File: K:\01_Projects\Greenville, City of\30202017.1\MAX CO2 Town Com Bulkhead\dwg\2 Construction Plans\SHEETS\A Sheet Set\CG202017.C-101_GRAD - Plotted: 1/31/2025 3:58 PM by: ALEX.FLINT - Saved: 1/31/2025 1:14 PM by: ALEX.FLINT





C2 / CG-104 GRADING PLAN - PATH TO FIRST STREET
SCALE 1" = 20'-0"

STORM STRUCTURE TABLE

STRUCTURE	RIM EL	STRUCTURE IN	INVERT IN	INVERT OUT
DI-1	20.50			15.00
DI-2	15.00	DI-1 YI-1	12.21 10.21 13.11	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	12.16
DI-11	17.88	DI-10	10.84	7.84
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	8.16	8.16
OUTLET STRUCTURE-2	12.75	DI-2 OUTLET STRUCTURE-1	7.28 7.84	5.84
YI-1	15.00			11.50
YI-2	22.60			18.02
YI-3	25.80			23.18
YI-4	13.50		10.60	8.60
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	12.78	4.61%	1	8"	HDPE	7.80
13.53	13.17	4.74%	2	6"	HDPE	7.61
11.00	10.21	3.75%	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	70.68
5.34	0.50	13.65%	6	24"	RCP	39.10
8.16	7.84	0.50%	7	18"	RCP	266.24
13.00	12.75	1.12%	8	1"	HDPE	22.37
13.00	12.75	1.17%	9	6"	HDPE	21.40
12.15	9.18	4.88%	10	15"	RCP	61.41
17.46	14.15	12.65%	11	18"	RCP	28.14
13.25	13.10	0.58%	12	12"	RCP	35.71
13.05	13.00	0.44%	13	6"	HDPE	11.49
11.31	10.00	17.59%	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	60.88
16.71	16.22	1.76%	17	12"	HDPE	27.71
16.22	13.71	5.87%	18	18"	RCP	58.40
14.40	13.71	1.01%	19	12"	RCP	68.55
12.96	10.64	6.20%	20	12"	RCP	20.68
7.84	5.38	6.35%	21	18"	RCP	81.07
7.80	5.38	5.00%	22	12"	RCP	70.59
18.02	10.80	6.00%	23	18"	HDPE	94.05
23.18	22.25	1.73%	24	8"	HDPE	34.04
5.38	0.50	26.91%	25	24"	RCP	18.14
8.00	7.50	1.88%	26	8"	HDPE	17.50

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

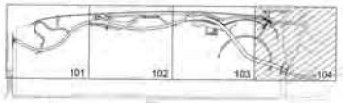
448	SSMH TOP = 17.14 INV = 7.54
463	SSMH TOP = 20.74 INV = 7.54

GRADING LEGEND

BC	BACK OF CURB	JB	JUNCTION BOX	28.58	EX. SPOT ELEVATION
BS	BOTTOM OF STAIR	LF	LINEAR FEET	28	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	
FFE	FINISH FLOOR ELEVATION	TSW	TOP OF SIDEWALK	X X	INLET PROTECTION
FL	FLOW LINE	TW	TOP OF WALL	X	
FOCB	FIBER OPTIC CABLE BOX	TYP.	TYPICAL		GRADE BREAK
HP	HIGH POINT (OF SWALE, TYP)	YI	YARD INLET		
INV.	INVERT				

NOTE

REFER TO SHEET CG100 FOR GRADING NOTES



N

N

20' 0' 20' 40'
SCALE 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN (EAST)

mattatt & michal

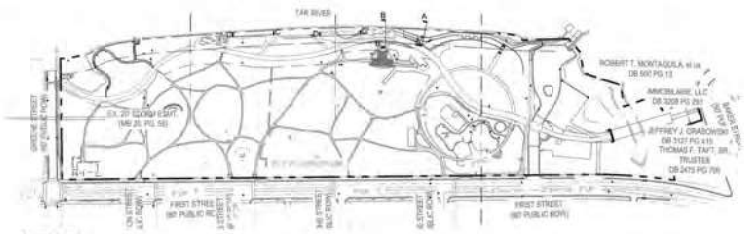
THE EAST GROUP

1/31/25

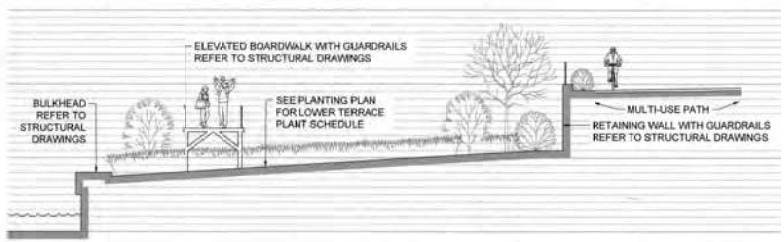
01.31.25

Sheet Reference No.
CG-104

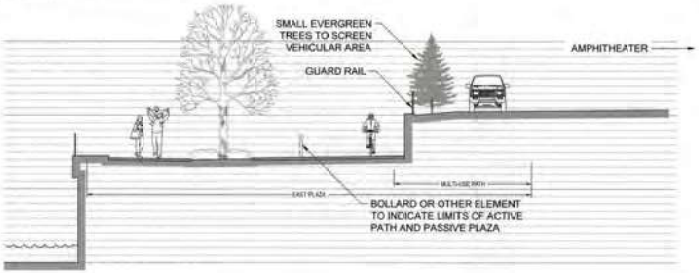
INDEX 37 OF 114



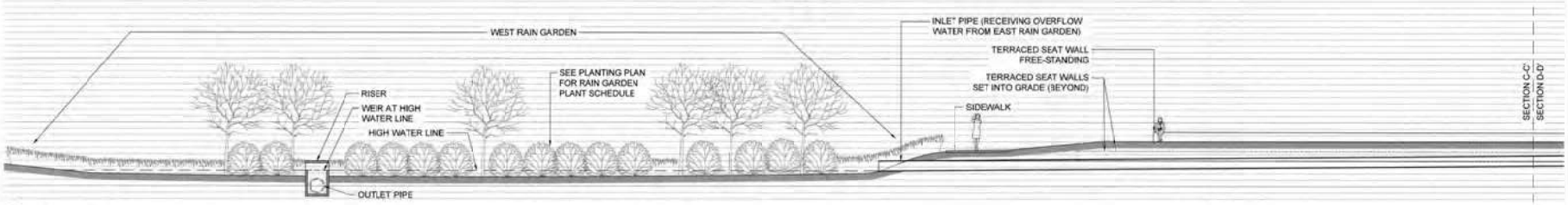
SECTION KEY



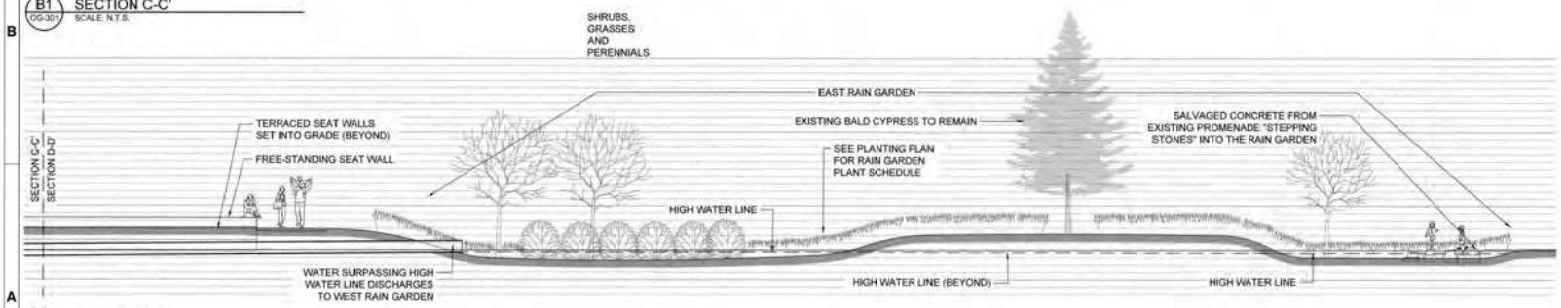
D3 (CG-301) SECTION A-A'
SCALE: N.T.S.



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
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

Date	Description
2025-01-31	ISSUED FOR BID
2024-12-20	90% CONSTRUCTION DOCS PLAN SUBMITTAL
2024-11-01	CD01 SITE PLAN REVIEW

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE SECTIONS

Designed by: DRL
Drawn by: DRL
Reviewed by: DRL
Date: 11/15/2023
AMM Project No: 2318171.00
Drawing Units: AS SHOWN
PRO-scale: 1:1 (D SHEET)

moffatt & nichol
2024 EXAMS ST
GREENVILLE, NC 27834
252-752-4162
NC ENGINEERING FIRM LICENSE NO. C-0293
NC LANDSCAPE FIRM LICENSE NO. C-0293

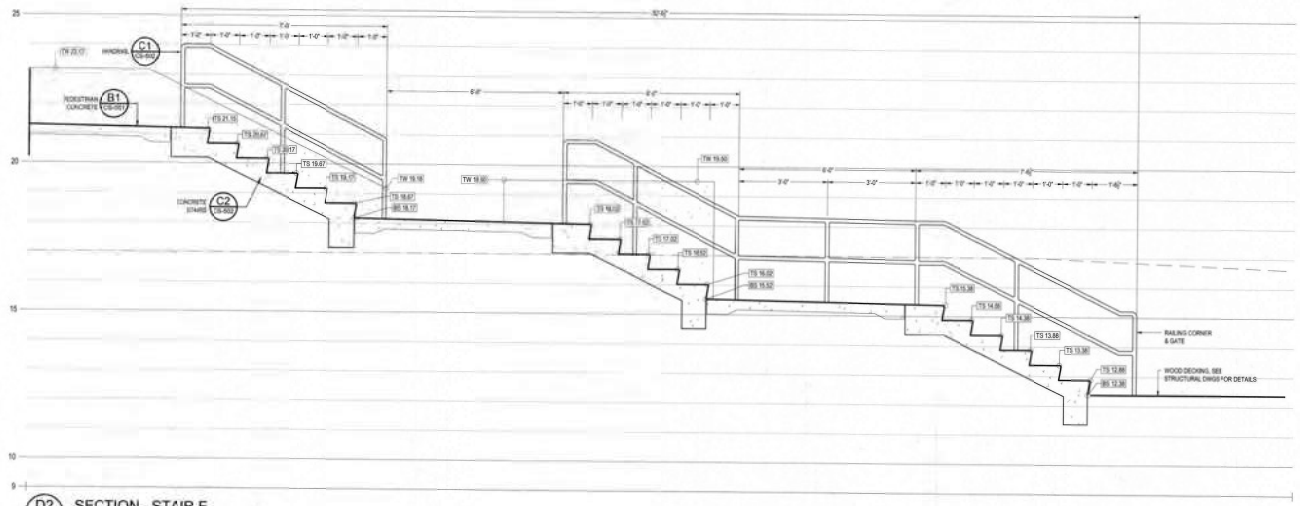
THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0293
NC LANDSCAPE FIRM LICENSE NO. C-0293
MOFFATT & NICHOL
MEETS ATT & NICHOL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN RINDE
SEAL 01.31.25

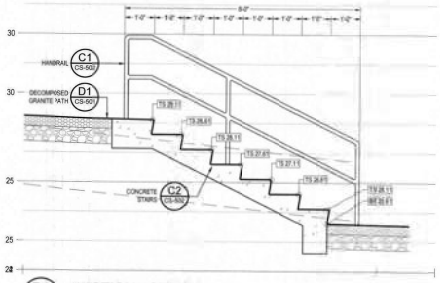
SEAL

Sheet Reference No.
CG-301
INDEX: 38 OF 114

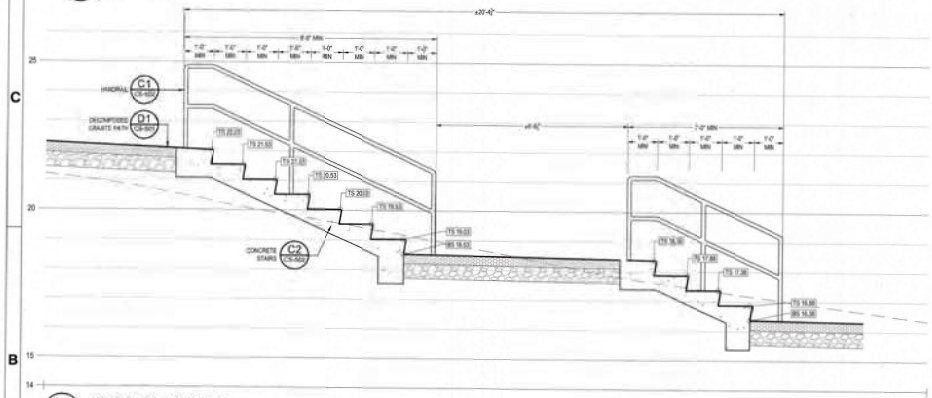
File: K:\01_Projects\Greenville, City of\02\02317 M&N LDG Town Commons Bulkhead\ogd construction Plans\CG-TSL-A Sheet Set\02\02317_C-CG_SECT_Plotted: 1/31/2025 3:06 PM, by: ALEX FLINT; Saved: 12/4/2024 8:49 AM, by: COLLEEN BANDLE



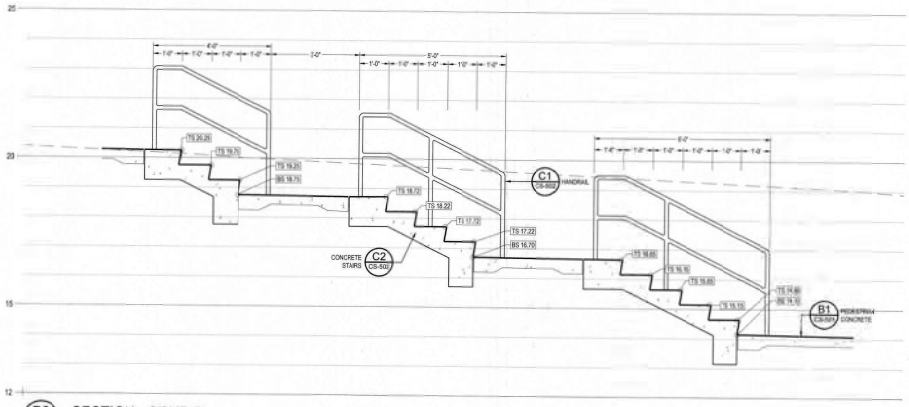
D2 CG-302 SECTION - STAIR E
SCALE: 1/2" = 1'-0"



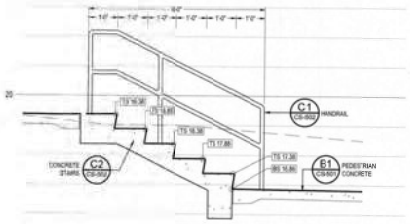
D4 CG-302 SECTION - STAIR C
SCALE: 1/2" = 1'-0"



B2 CG-302 SECTION - STAIR D
SCALE: 1/2" = 1'-0"



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
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE SECTIONS

mahaffey & nichols

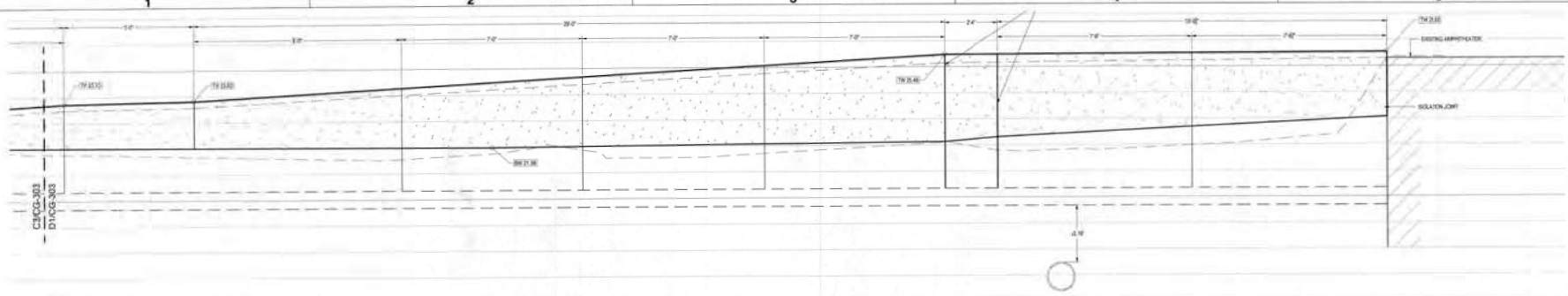
THE EAST GROUP

SEAL 01.31.25

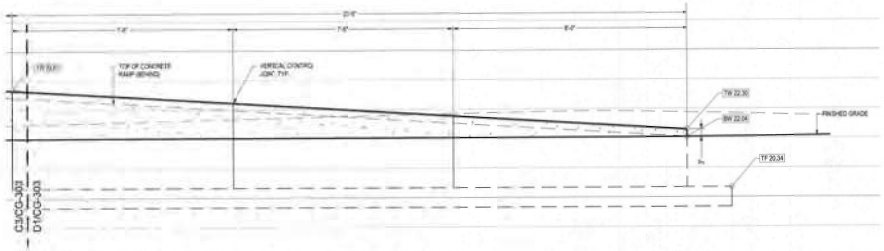
Sheet Reference No.
CG-302

INDEX 39 OF 114

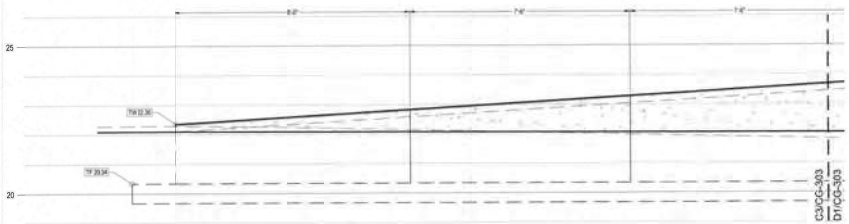
File: K:\01_Projects\Greenville, City of\53202017 M&N\CD2 Town Core Bulkheadings\3 Construction Plans\REF\TS\4 Sheet Set\02202017_CG-302_SITE_SECTIONS_Plotted: 1/31/2025 3:11 PM by ALEX HUNT - Saved: 1/31/2025 11:44 AM by COLLEEN BANGLE



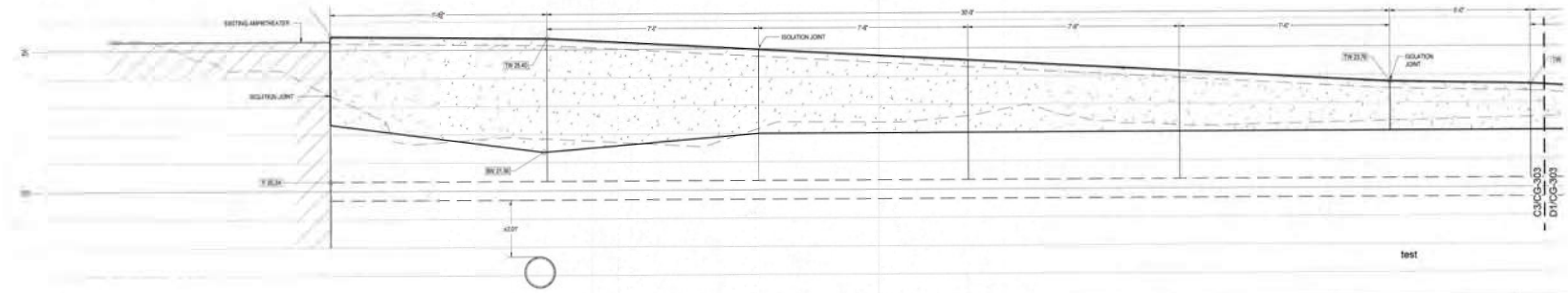
D1 / CG-303 ELEVATION - AMPHITHEATER WALL NORTH (CONT'D)
SCALE: 1/2" = 1'-0"



C1 / CG-303 ELEVATION - AMPHITHEATER WALL SOUTH (CONT'D)
SCALE: 1/2" = 1'-0"

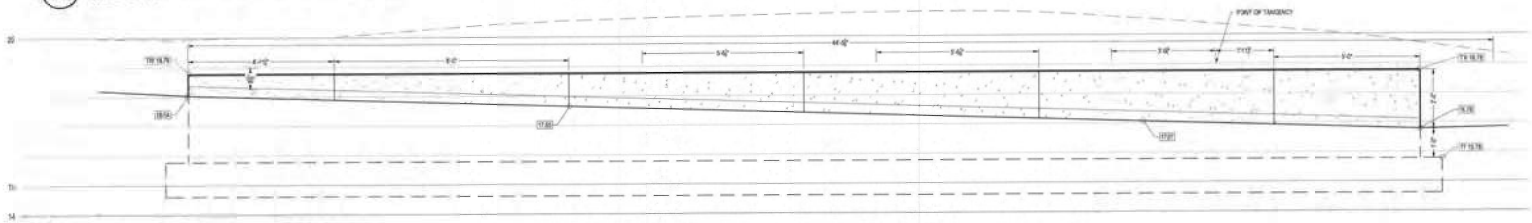


C3 / CG-303 ELEVATION - AMPHITHEATER WALL NORTH
SCALE: 1/2" = 1'-0"



test

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE SECTIONS

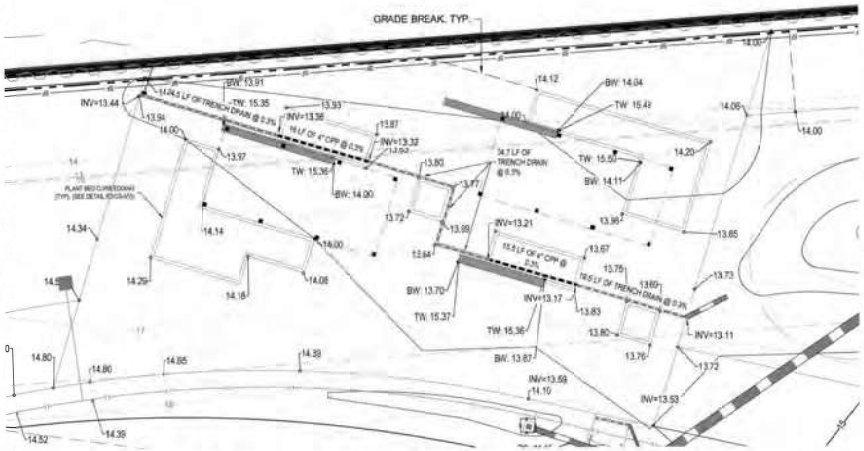
moffatt & nichol

THE EAST GROUP

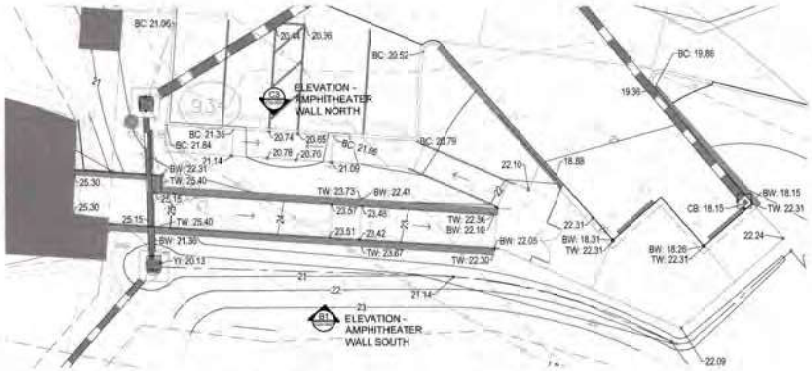
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19840 KATHLEEN RINE

SEAL 01.31.25

Sheet Reference No.
CG-303



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & EDF LANDS PROJECT

GRADING & DRAINAGE PLAN ENLARGEMENTS

moffatt & nichol

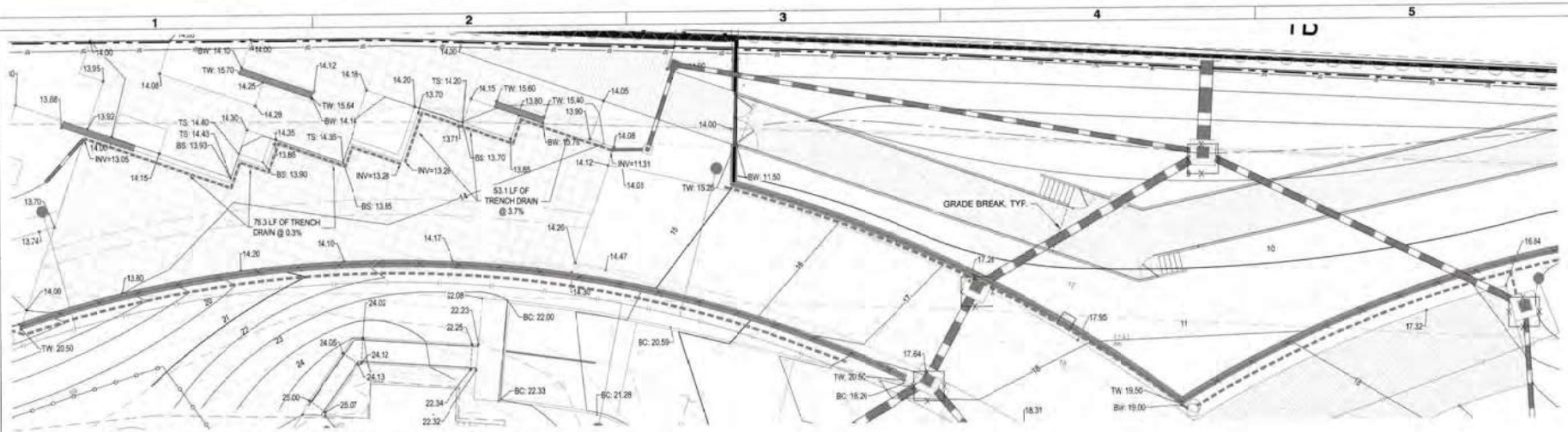
THE LAST GROUP

NORTH CAROLINA LANDSCAPE ARCHITECT 1849 KATHLEEN RUSSELL

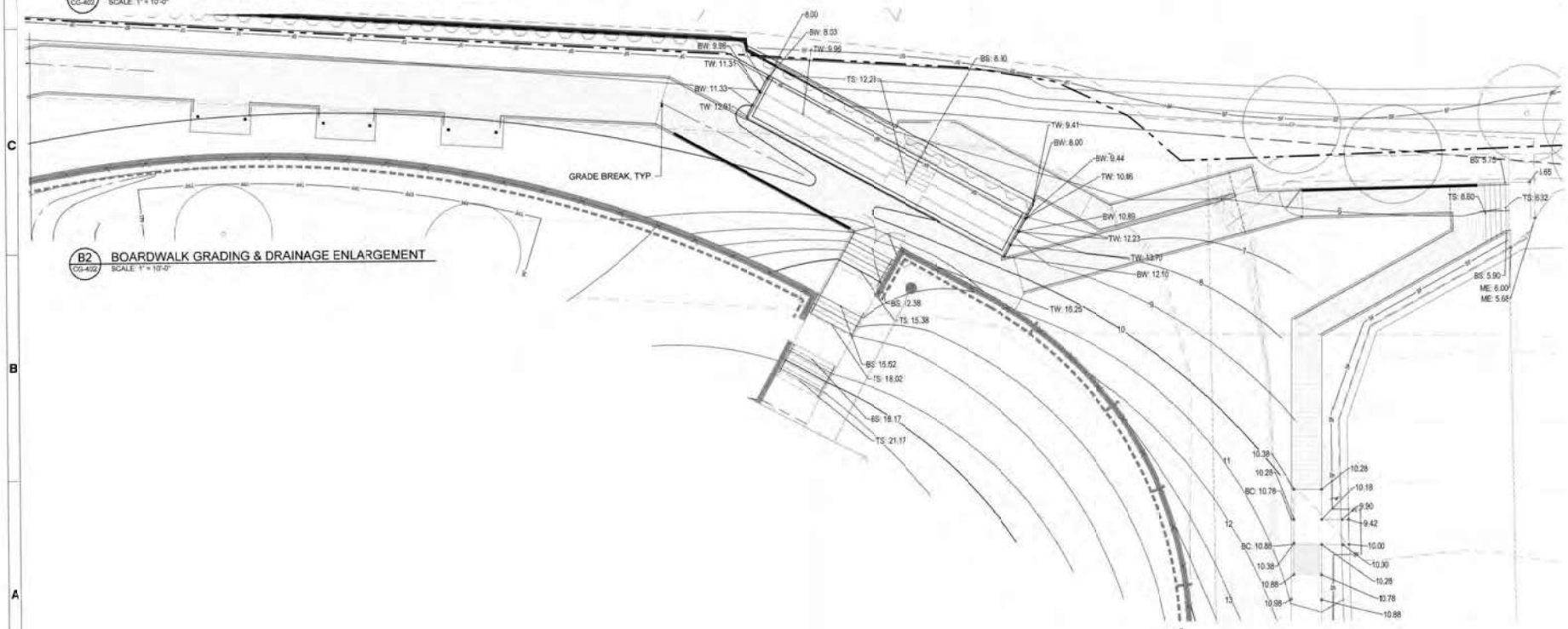
01.31.25

Sheet Reference No.
CG-401

INDEX: 41 OF 114



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

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

A	2025.02 FOR BIDDING REVIEW		
B	REDLINE PER 2025 BID PLAN COMMENTS		
C	2025 BID PLAN REVISED		

PROJECT TITLE:
GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

GRADING & DRAINAGE PLAN ENLARGEMENTS

Designed by: DR
Drawn by: MD
Checked by: SR
Date: 1/31/2025
Drawing Scale: AS SHOWN
Drawing Date: 1/31/2025
Drawing No. (CG-402)
Sheet No. 11 (B SHEET)

matt & nichol
4700 FALLS OF NEUSE RD, SUITE 200
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. 3-0108

THE EAST GROUP
2024 EXAMINER
GREENVILLE, NC 27834
NC ENGINEERING FIRM LICENSE NO. C-0279
NC LANDSCAPE FIRM LICENSE NO. C-0402

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 19840 JOSHUA KATHLEEN RIVE

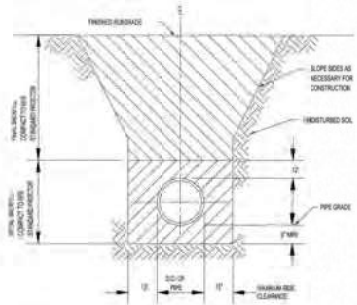
SEAL 01.31.25

SIGNATURE

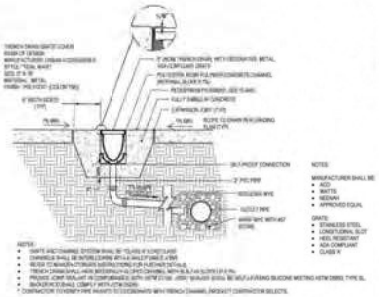
Sheet Reference No.
CG-402

INDEX: 49 OF 114

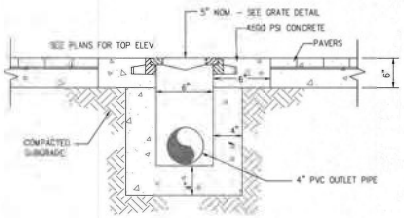
File: K:\01_Projects\Greenville, City of\2025\2217 MAN CO2 Town Core Bulkhead\proj\Construction Plans\SHEETS\LA Sheet Set\CG2025217_C-101_GRAD - Plotted: 1/31/2025 3:15 PM By: ALEX FLINT - Sheet: 1/31/2025 1:14 PM By: ALEX FLINT



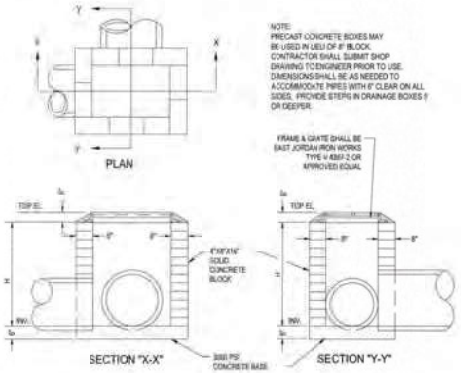
E1 CG-501 STORM DRAIN TRENCH
N.T.S.



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

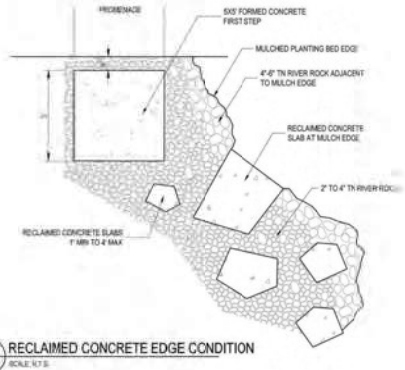


E3 CG-501 TRENCH DRAIN IN PAVERS
N.T.S.



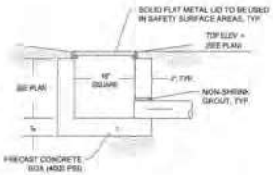
NOTE:
PRECAST CONCRETE BOXES MAY BE USED IN LIEU OF 8" BLOCK. CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO USE. DIMENSIONS SHALL BE AS NEEDED TO ACCOMMODATE PIPES WITH 6" CLEAR ON ALL SIDES. PROVIDE STEPS IN DRAINAGE BOXES 5' OR DEEPER.

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

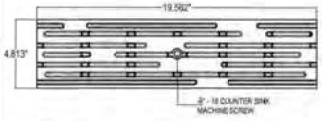


B2 CG-501 RECLAIMED CONCRETE EDGE CONDITION
SCALE: N.T.S.

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



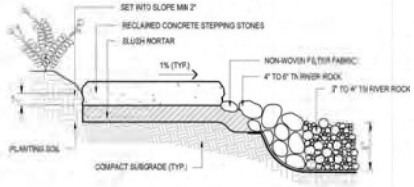
B1 CG-501 YARD INLET
N.T.S.



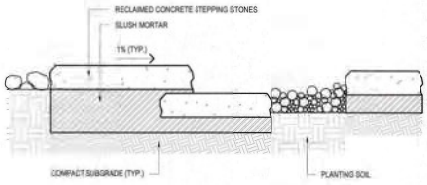
NOTES:
1. HEAVYPROOF: NO THRU OPENINGS GREATER THAN 2"
2. SHIPS IN PIECES: 1
3. DUE TO CASTING INCONSISTENCIES, ALL DIMENSIONS ARE NOMINAL
4. MATERIAL: CAST DUCTAL IRON
5. FINISH: POLYESTER POWDER COAT WITH SEMI-GLOSS RUST TEXTURE BRONZE
6. SUBMIT CUT SHEET TO LANDSCAPE ARCHITECT FOR APPROVAL

ACCEPTABLE MANUFACTURES:
IRON AGE
URBAN ACCESSORIES
IRONSMITH
OR APPROVED EQUAL

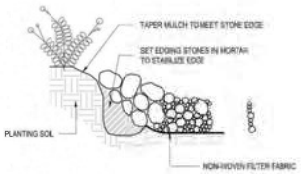
A1 CG-501 5" (NOM) DECORATIVE METAL TRENCH GRATE
N.T.S.



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

2	PRELIMINARY FOR CLIENT REVIEW	02/07/25	
1	PRELIMINARY FOR CLIENT REVIEW	12/17/24	
0	100% CONSTRUCTION DOCUMENTS	11/15/24	
No.	Description	Date	Initial

GREENVILLE TOWN COMMONS
& EXPLANADE PROJECT

GRADING DETAILS

Designed by: SJF
Drawn by: MR
Reviewed by: MR
Submitted by: MR
Date: 11/15/2024
Field Project No.: 0217112-00
Drawing Scale: AS SHOWN
Plot Scale: 1:1 (FOR SUBMITTAL)

moffatt & nichol
2109 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27603
NC ENGINEERING LICENSE NO. F-0163

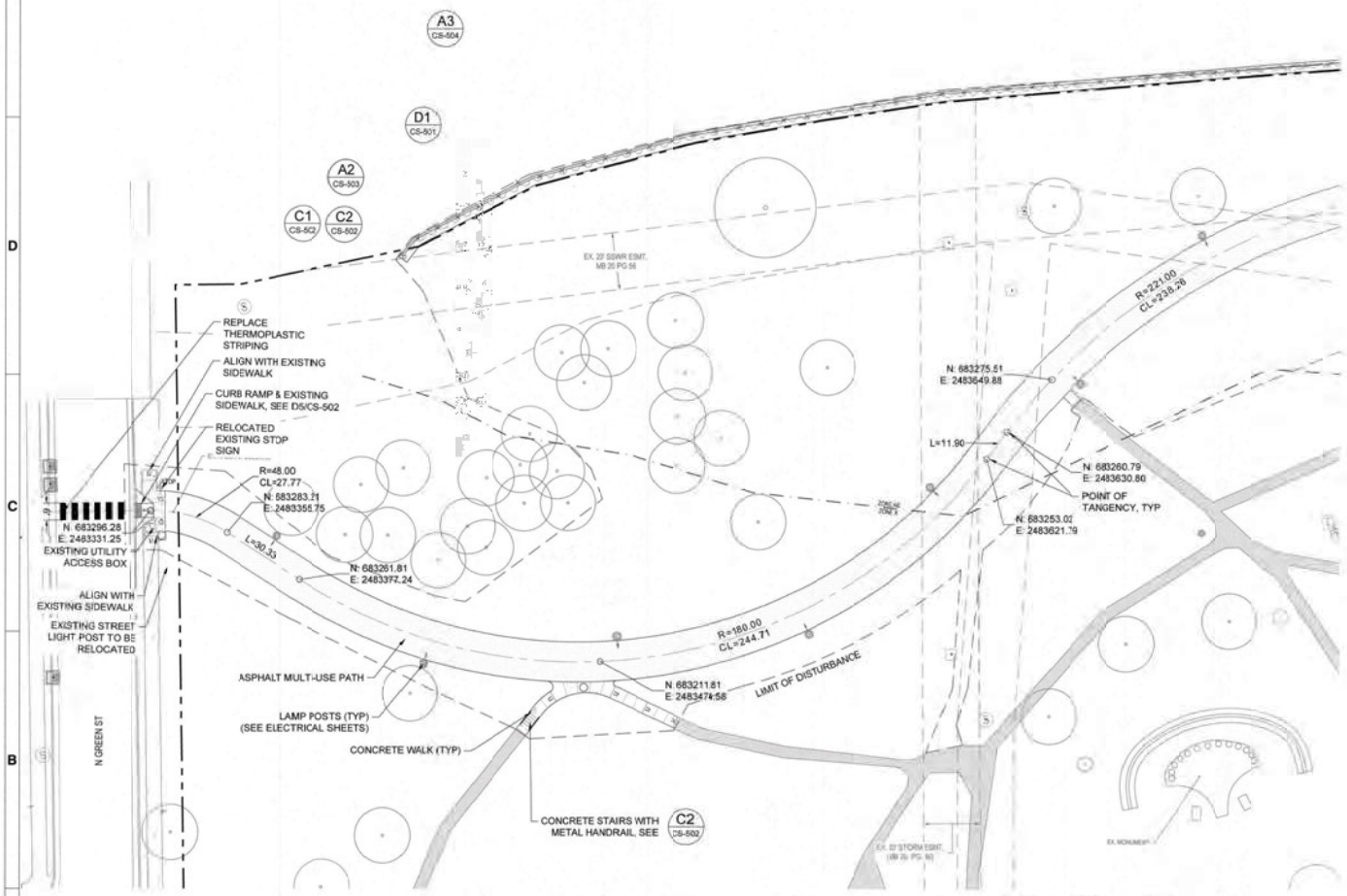
THE EAST GROUP
NC ENGINEERING LICENSE NO. C-0206
NC LANDSCAPE ARCHITECTURE NO. C-427
ENGINEERS • ARCHITECTS • PLANNERS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT
KATHLEEN WINE
01.31.25

Details E1-C1 ONLY
Soil Imp
1/31/25

Sheet Reference No.
CG-501

Fax: K:\Pr_Projects\Greenville, City of\2025\0217 M&N CVS\1 Town Com Bulfield\dwg\1 Construction Plans\SHEETS\A Sheet 0\CG-501_GRND_DTLS.1 Plotted: 1/31/2025 2:15 PM By: ALEX FLINT , Saved: 1/31/2025 2:45 PM By: SHANON APPLE



SITE FURNISHINGS SCHEDULE

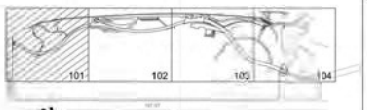
QTY.	ITEM	SIZE	COLOR/FINISHES	NOTES
13	Backed Bench with Armrests	6' width		Refer to DuMor Bench on Sheet CS-503
5	Back-less Bench with Armrests	6' width		DuMor Bench to coordinate Backed Bench on Sheet CS-503
6	Collapsible Bollard with Locking mechanism	34" ht		Refer to Bollard R-7576 on Sheet CS-503
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 shield	40 gal.		Refer to DuMor "Receptacle 157-40" on Sheet CS-503
4	Concrete Seat Wall Toppers (backless with armrests)	5' 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)	5' 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	A1/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	+ 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		



N

20' 0' 20' 40'
SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (WEST)

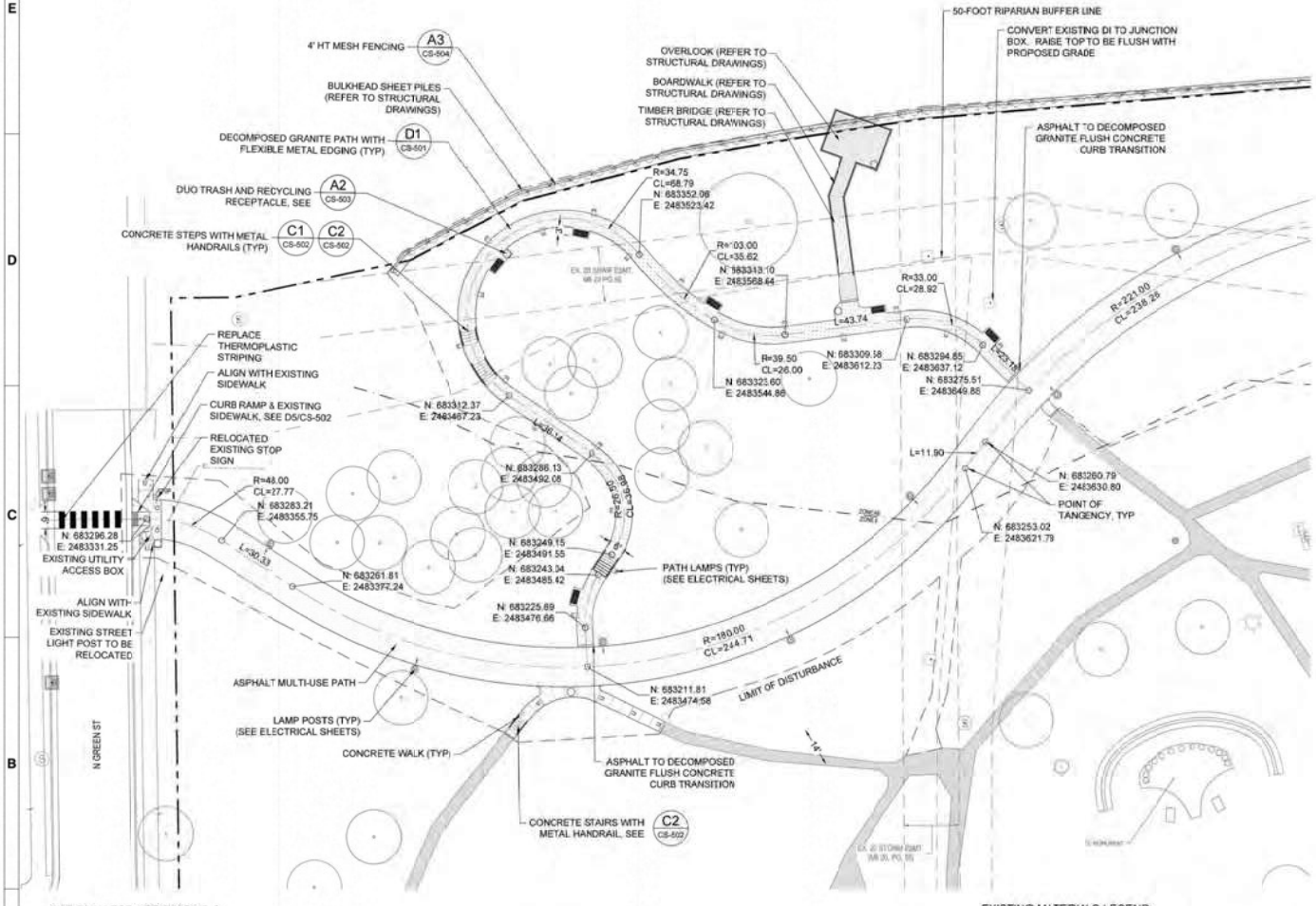
moffatt & nichol

THE EAST GROUP

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT
KATHLEEN WINE
01.31.25

Sheet Reference No.
CS101
INDEX 44 OF 114

Plot: K:\81_Projects\Greenville, City of\0252\0217 MAV CDC Town Com Bulkhead\dwg\2 Construction\Plans\SHEETS\LA Sheet Set\0252\0217_C-001_SITE - Plotted: 1/31/2025 3:10 PM by ALEX FLINT, Saved: 1/31/2025 1:21 PM by COLLEEN BANGLE



SITE PLAN FOR ADDITIVE BID 2

SITE FURNISHINGS SCHEDULE

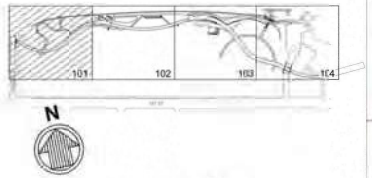
QTY.	ITEM	SIZE	COLOR/FINISHES	NOTES
13	Backed Bench with Armrests	6 width		Refer to DuMor Bench on Sheet CS-503
5	Back-less Bench with Armrests	6 width		DuMor Bench to coordinate Backed Bench on Sheet CS-503
6	Collapsible Bollard with Locking mechanism	34" ht.		Refer to Bollard R-7576 on Sheet CS-503
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 shield	40 gal.		Refer to DuMor "Receptacle 167-40" 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

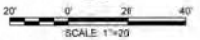
SITE MATERIALS LEGEND

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	A2/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		
EX.	EXISTING	W	WATER
ICV	IRRIGATION CONTROL VALVE	WV	WATER VALVE
INV	INVERT	YI	YARD INLET
RCP	REINFORCED CONCRETE PIPE	(500)	EXISTING CONTOUR
SD	STORMDRAIN	x 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SI	SIGN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)





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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

CS-101A - MATERIALS & SITE PLAN (WEST) - ALTERNATE A

moffatt & nichol

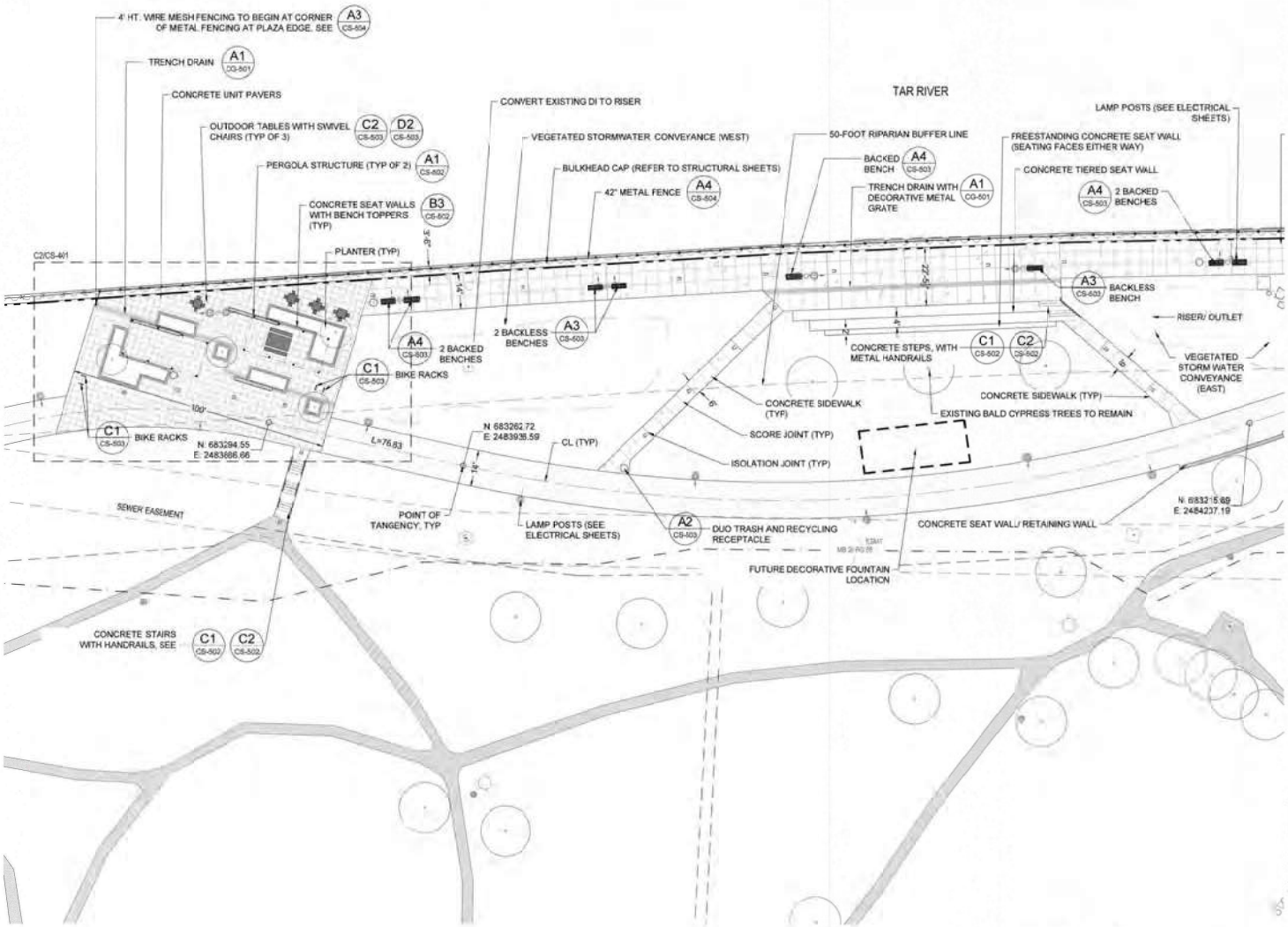
THE EAST GROUP

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN RHIE

01.31.25

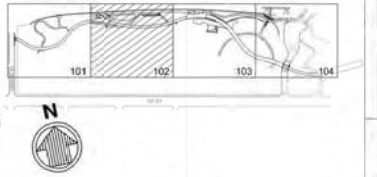
Sheet Reference No.
CS101A

INDEX: 44A OF 114



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	100	EXISTING CONTOUR
RCP	REINFORCED CONCRETE PIPE	+ 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		

N

20' 0' 20' 40'

SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (CENTER-WEST)

moffatt & nichol

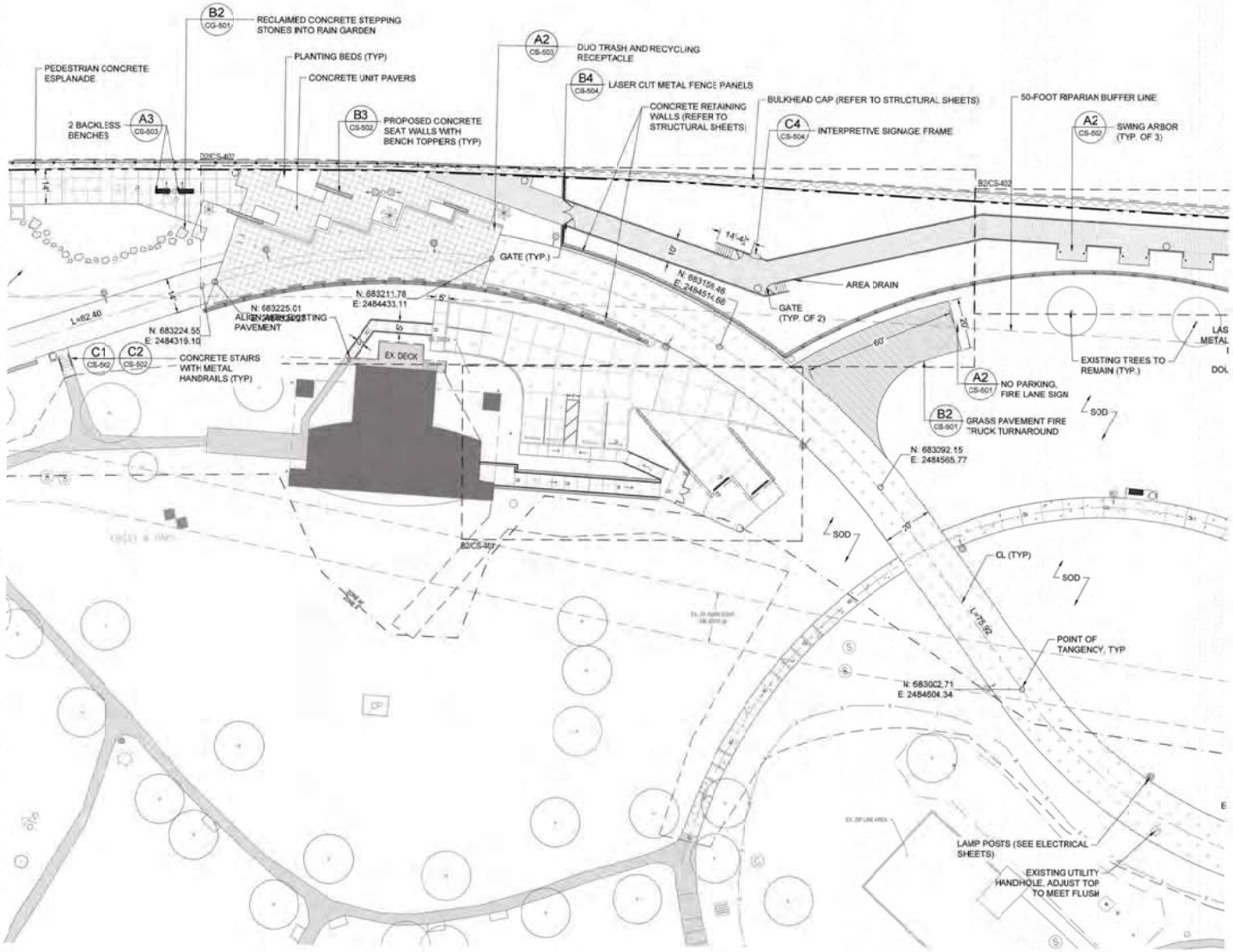
THE EAST GROUP

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT JOHN KATHLEEN RUSH

SEAL 01.31.25

Sheet Reference No.
CS-102

INDEX: 45 OF 114

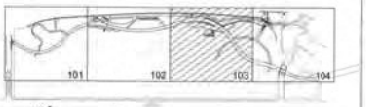


SITE MATERIALS LEGEND

PATTERN	MATERIAL	DETAIL
	HEAVY-DUTY ASPHALT PAVEMENT	H1/CS-501
	STANDARD ASPHALT PAVEMENT	S1/CS-501
	GRAVEL PAVING	G1/CS-501
	PEDESTRIAN CONCRETE	P1/CS-501
	VEHICULAR CONCRETE	V1/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	100	EXISTING CONTOUR
RCP	REINFORCED CONCRETE PIPE	100.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	(100.00)	EXISTING SPOT ELEVATION (ATTIE 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

GREENVILLE'S TOWN COMMONS & ESPLANADE PROJECT

MATERIALS & LAYOUT PLAN (CENTER-EAST)

moffatt & nichol

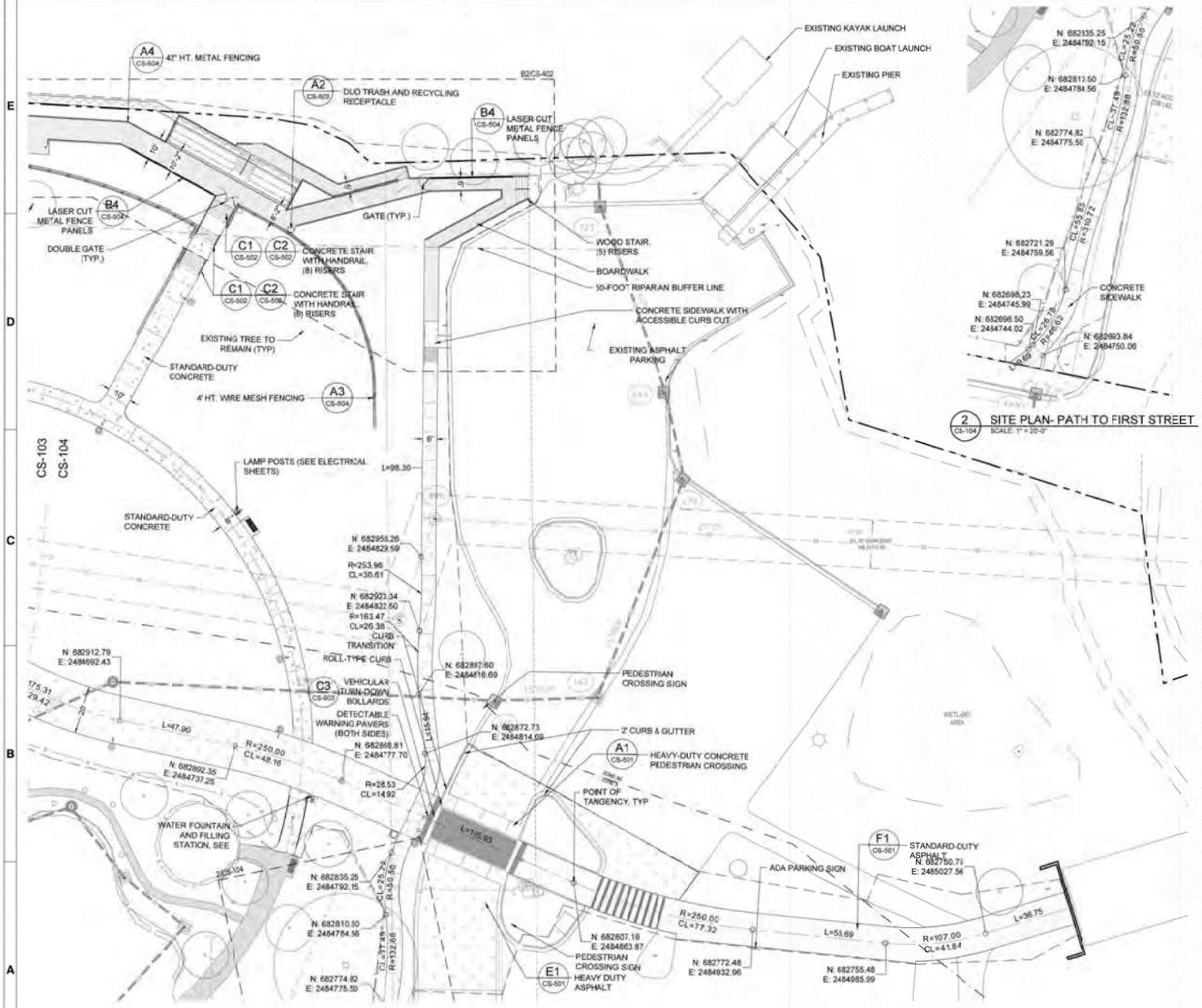
THE EAST GROUP

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN RIVE

SEAL 01-31-25

Sheet Reference No.
CS-103

INDEX: 46 OF 114



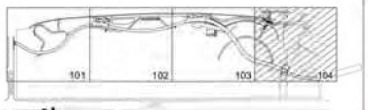
2 CS-104 SITE PLAN- PATH TO FIRST STREET
SCALE: 1" = 20'-0"

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	+ 500.00	EXISTING SPOT ELEVATION (SURVEYED)
SD	STORM DRAIN	+(500.00)	EXISTING SPOT ELEVATION (AT TIE IN POINTS)
SI	SIGN		



N

N

20' 0' 20' 40'
SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & EPPS/ANNEX PROJECT

MATERIALS & LAYOUT PLAN (EAST)

moffatt & nichol

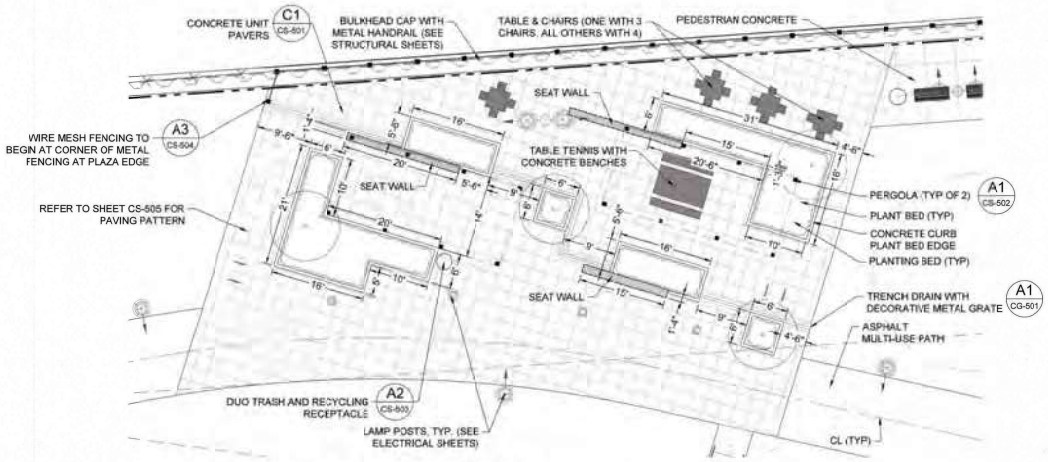
THE SMITH GROUP

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 1940 KATHLEEN MARIE MOFFATT

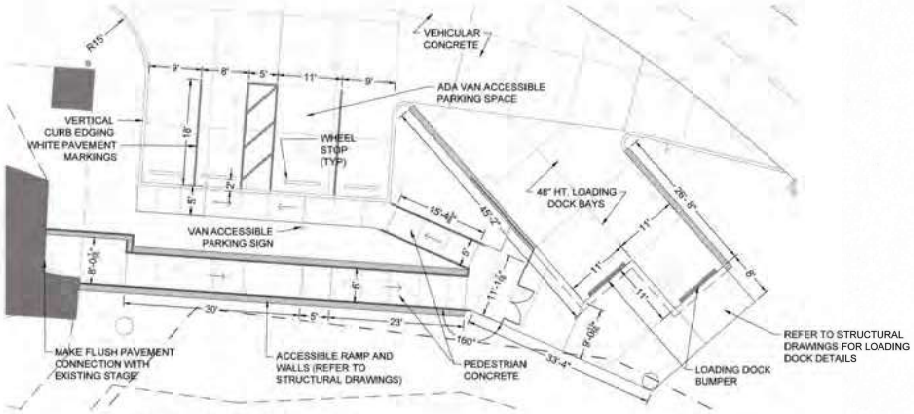
SEAL 01.31.25

Sheet Reference No.
CS-104

INDEX: 47 OF 114



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 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		

N
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

GREENVILLE TOWN COMMONS & EDGELAND PROJECT

SITE PLAN ENLARGEMENT

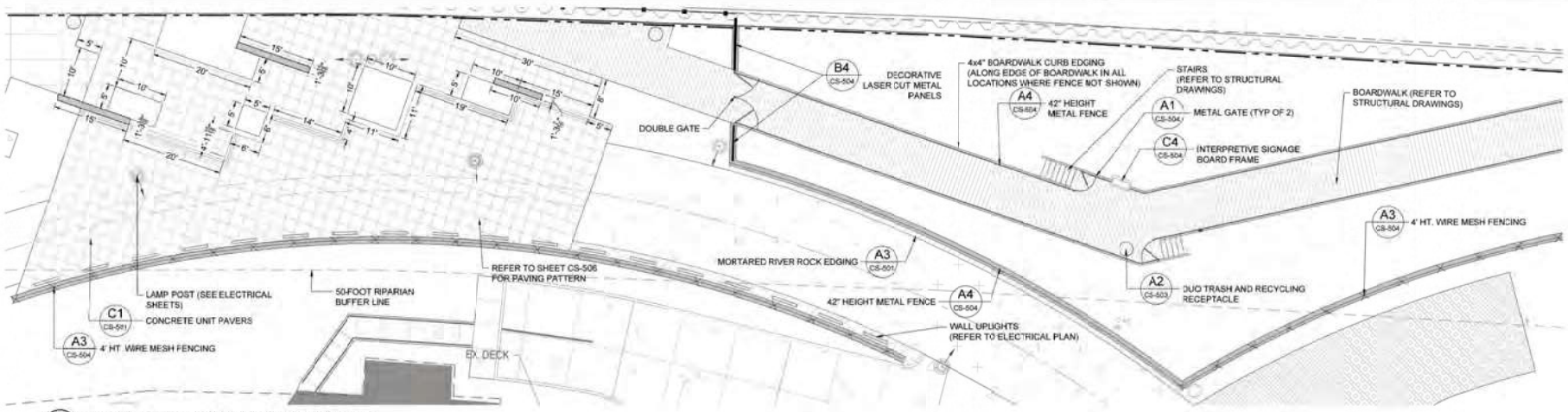
moffatt & nichol

THE EAST GROUP

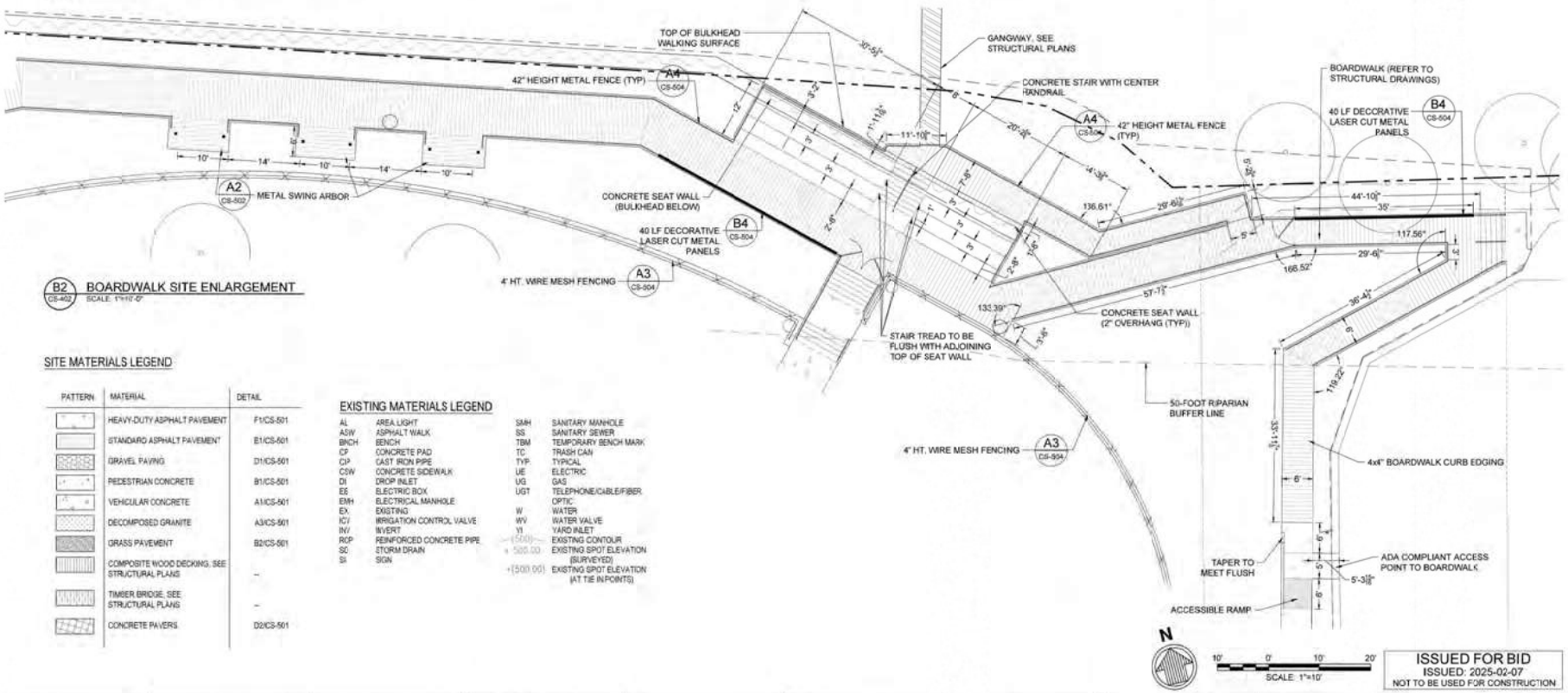
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 JOHN KATHLEEN RUNGE

01.31.25

Sheet Reference No.
CS-401
INDEX 48 OF 114



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	+ 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

GREENVILLE'S TOWN COMMONS & ESPLANADE PROJECT

SITE PLAN ENLARGEMENT

moffatt & nichol

THE EAST GROUP

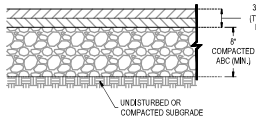
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049802 KATHLEEN KING
01.31.25

Sheet: Reference No
CS-402

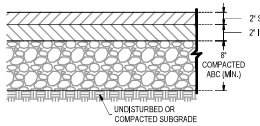
INDEX: 49 OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

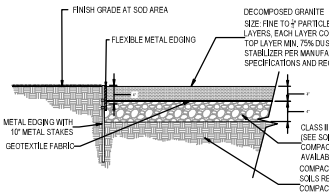
File: K:\01_Projects\Greenville_City\P2022\2717 M&N CDG Town Com Bulkhead\dwg\3 Construction Plans\SHEETS\LA Sheet Set\2022\2717_C-201_SITE - Plotted: 1/31/2025 3:16 PM by: ALEX KLINT - Saved: 1/31/2025 1:21 PM by: COLLEEN.BAGLE



F1 CS-501 STANDARD ASPHALT PAVEMENT
SCALE: NTS

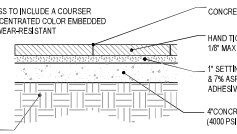


E1 CS-501 HEAVY-DUTY ASPHALT PAVEMENT
SCALE: NTS



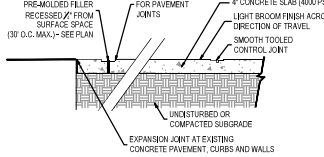
D1 CS-501 DECOMPOSED GRANITE PATH
SCALE: NTS

NOTE:
MANUFACTURING PROCESS TO INCLUDE A COURSER AGGREGATES BASE, CONCENTRATED COLOR EMBEDDED IN TOP LAYER, AND FINE WEAR-RESISTANT AGGREGATES.

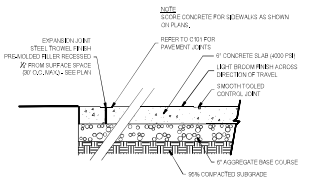


C1 CS-501 PEDESTRIAN CONCRETE UNIT PAVERS
SCALE: NTS

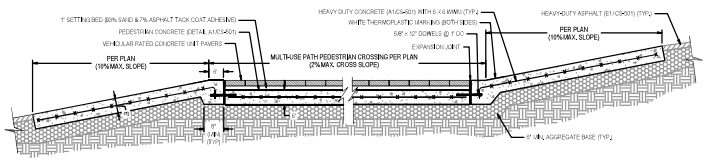
NOTE
SCORE CONCRETE FOR SIDEWALKS AS SHOWN ON PLANS, 8' MAXIMUM SPACING.



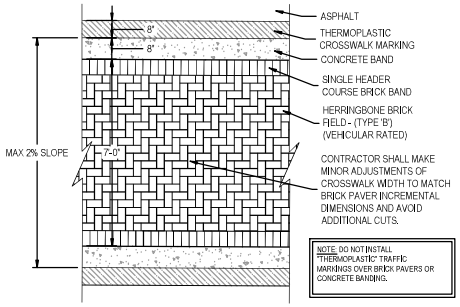
B1 CS-501 PEDESTRIAN CONCRETE
SCALE: NTS



A1 CS-501 HEAVY DUTY CONCRETE
SCALE: NTS



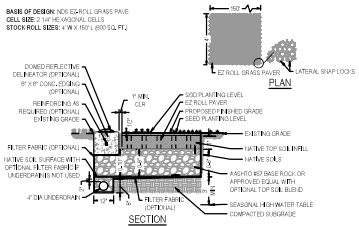
E2 CS-501 PEDESTRIAN CROSSWALK
SCALE: NTS



NOTE: DO NOT INSTALL THERMOPLASTIC TRAFFIC MARKINGS OVER BRICK PAVERS OR CONCRETE BANDING.

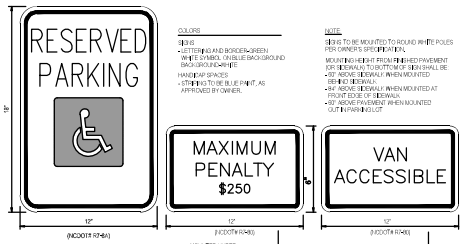
D2 CS-501 CROSSWALK PAVING PATTERN
SCALE: NTS

BASIS OF DESIGN: NDS EZ-ROLL GRASS PAVE
CELL SIZE: 2 1/4" HEXAGONAL CELLS
STOCK ROLL SIZES: 4' W X 150' L (600 SQ. FT.)



NOTES
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. THE DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THE 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 CS-501 GRASS PAVEMENT
SCALE: NTS



COLORS
SIGNS
- LETTERING AND BORDER=GREEN
- WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND=WHITE

HANDICAP SPACES
- STRIPING TO BE BLUE PAINT, AS APPROVED BY OWNER.

NOTE
SIGNS TO BE MOUNTED TO ROUND WHITE POLES PER OWNER'S SPECIFICATION.

MOUNTING HEIGHT FROM FINISHED PAVEMENT (OR SIDEWALK) TO BOTTOM OF SIGN SHALL BE:
- 60" ABOVE SIDEWALK WHEN MOUNTED BEHIND SIDEWALK
- 84" ABOVE SIDEWALK WHEN MOUNTED AT FRONT EDGE OF SIDEWALK
- 60" ABOVE PAVEMENT WHEN MOUNTED OUTSIDE PARKING LOT

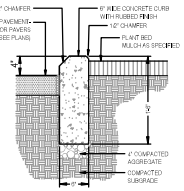
NOTE:
SEE SITE PLAN (C-0.0) FOR LOCATION OF VAN ACCESSIBLE SIGNS

MOUNTED UNDER REVOKE PARKING SIGN

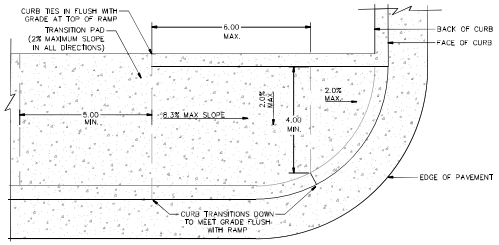
MOUNTED UNDER PENALTY SIGN

(AT DESIGNATED LOCATIONS)

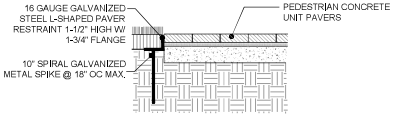
A2 CS-501 ADA PARKING SIGNAGE
SCALE: NTS



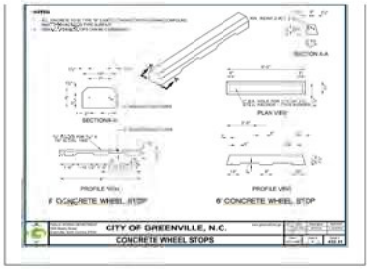
E4 CS-501 PLANT BED CURB EDGING
SCALE: NTS



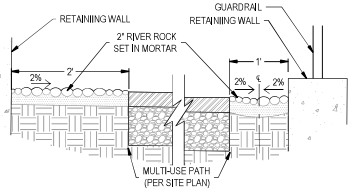
D3 CS-501 CURB RETURN ACCESSIBLE RAMP
SCALE: NTS



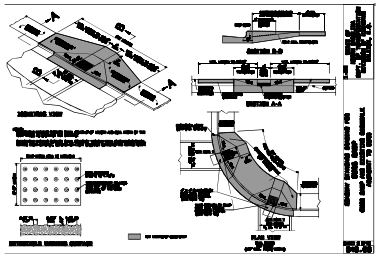
C3 CS-501 PAVER EDGE RESTRAINT
SCALE: NTS



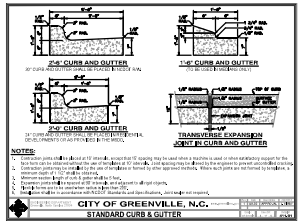
B3 CS-501 CONCRETE WHEEL STOPS
SCALE: NTS



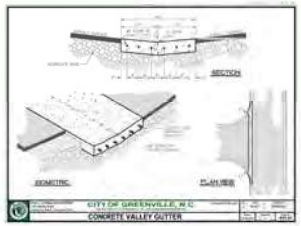
A3 CS-501 MORTARED RIVER ROCK EDGING
SCALE: NTS



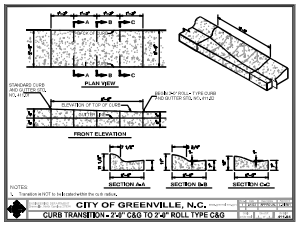
D4 CS-502 CURB RAMP & EXISTING SIDEWALK
SCALE: NTS



C4 CS-501 STANDARD CURB & GUTTER
SCALE: NTS



B4 CS-501 VALLEY GUTTER
SCALE: NTS



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

A	90% CUTOFF REVIEW	09/16/24
B	95% CUTOFF REVIEW	08/02/24

	ISSUED FOR BID	02/07/25
B	RESUBMIT PER COG SITE PLAN COMMENTS	11/08/24
A	COG SITE PLAN REVIEW	10/01/24

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

Designed by: SR
Date: 08/23/24
Rev:
Drawn by: MS
MAN Project No. 221315-02
Reviewed by: SR
Drawing code:
Drawing scale: AS SHOWN
Plot scale: 1:1 (D SHEET)

Submitted by: MARK PIRELLO MOFFATT & NICHOL

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

moffatt & nichol

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437
Engineering • Surveying • Mapping

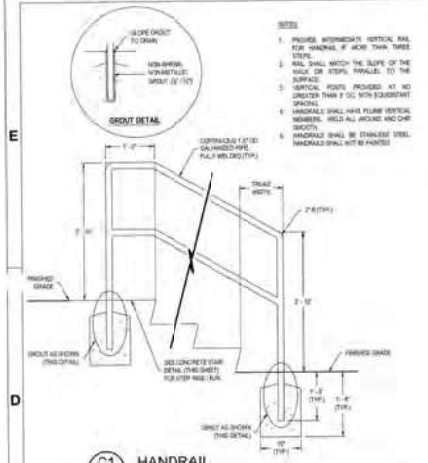
330 EVANS ST GREENVILLE, NC 27858 252-756-2746

NORTH CAROLINA PROFESSIONAL SEAL 18490 ENGINEER KATHLEEN RISE 01.31.25

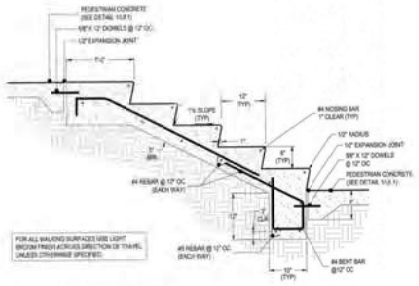
SEAL

Sheet Reference No.
CS-501
INDEX: 50 OF 114

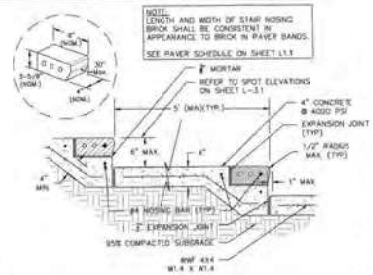
File: K:\01_Projects\Greenville, City of\202202017 M&N COG Town Com Bulk\working\3 Construction Plans\SHEETS\LA Sheet Set\202202017_CS-501_SITE_DTLS.dwg Plotted: 2/3/2025 3:29 PM by: COLLEEN.BANDLE, Saved: 2/3/2025 3:26 PM by: COLLEEN.BANDLE



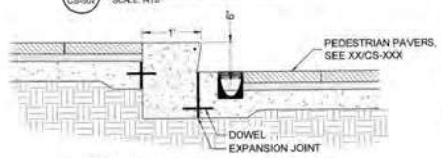
C1 CS-502 HANDRAIL
SCALE: NTS



C2 CS-502 CONCRETE STAIRS
SCALE: NTS

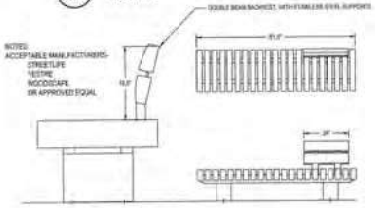


D3 CS-502 5' TREAD STEPS
SCALE: NTS

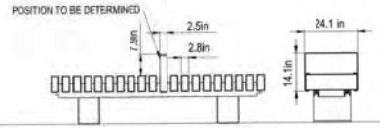


C3 CS-502 SINGLE STEP IN EAST PLAZA
SCALE: NTS

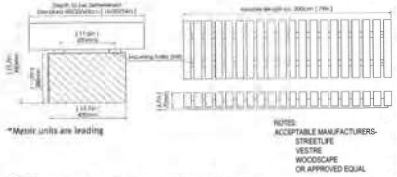
C4 CS-502 SKATE DETERRENTS
SCALE: NTS



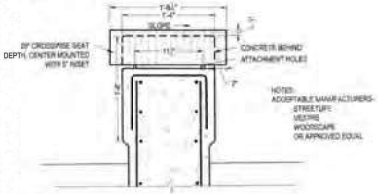
B1 CS-502 SEAT WALL BENCH TOPPER BACKREST
SCALE: NTS



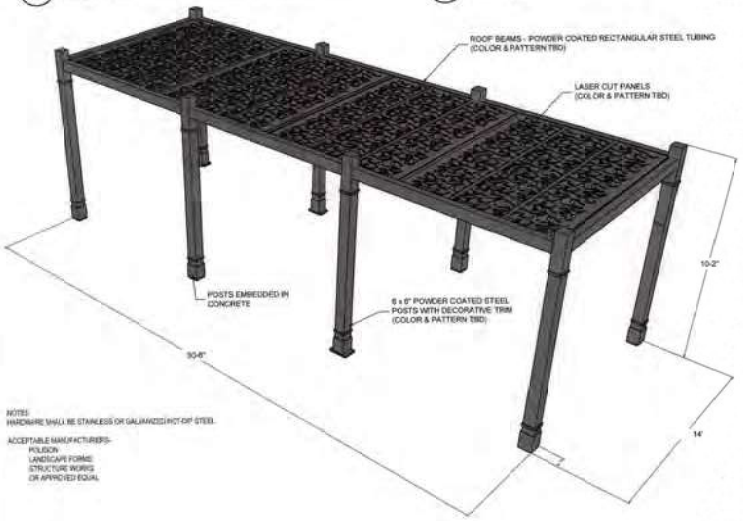
B2 CS-502 SEAT WALL BENCH ARM REST
SCALE: NTS



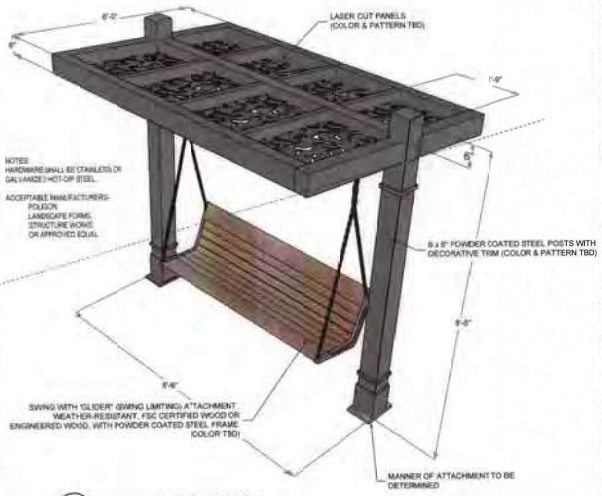
B3 CS-502 SEAT WALL BENCH TOPPERS
SCALE: NTS



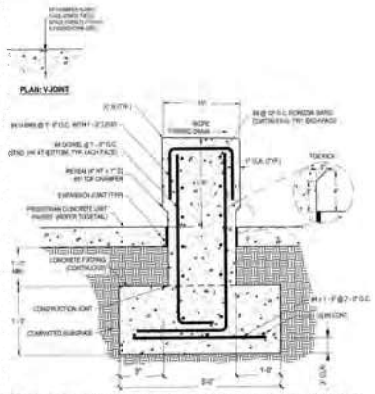
B4 CS-502 BENCH TOPPER INSET
SCALE: NTS



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



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

A	90% CD FOR INTERNAL REVIEW	02/07/25
A	90% CD FOR INTERNAL REVIEW	02/03/25

B	PRELIMINARY 100% CDS SITE PLANS COMMENTS	01/31/25
A	CDS SITE PLAN REVIEW	01/17/25

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

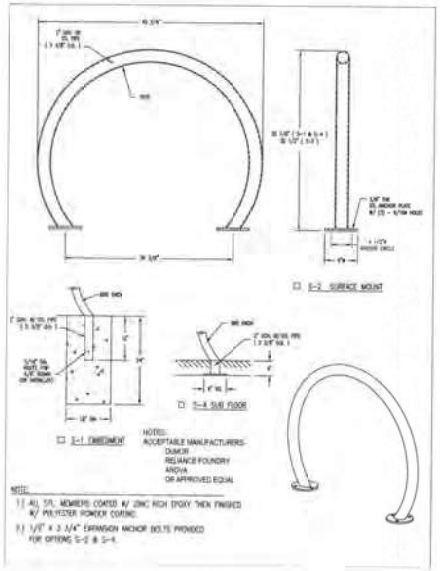
Designed by: JR | Date: 2/03/25 | Date Issued: 2/11/25 | Drawn by: SB | Checked by: MB | Scale: AS SHOWN | Drawing Number: 1-1 (25 SHEET)

mothott & nichol
THE EAST GROUP

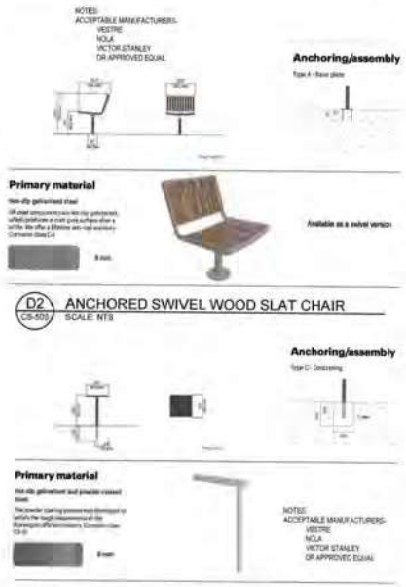
Sheet Reference No.
CS-502

INDEX 51 OF 114

File: K:\01_Projects\Greenville, City of\2022\0717 M&N CDG Town Com Bulkhead\Civil\Construction Plans\SHEETS\LS Sheet Set\2022\0717_CS-501_SITE_DTLS - Protect: 1/31/2025 3:19 PM by: ALEX FLINT - Saved: 1/31/2025 12:55 PM by: COLLEEN.BANGLE

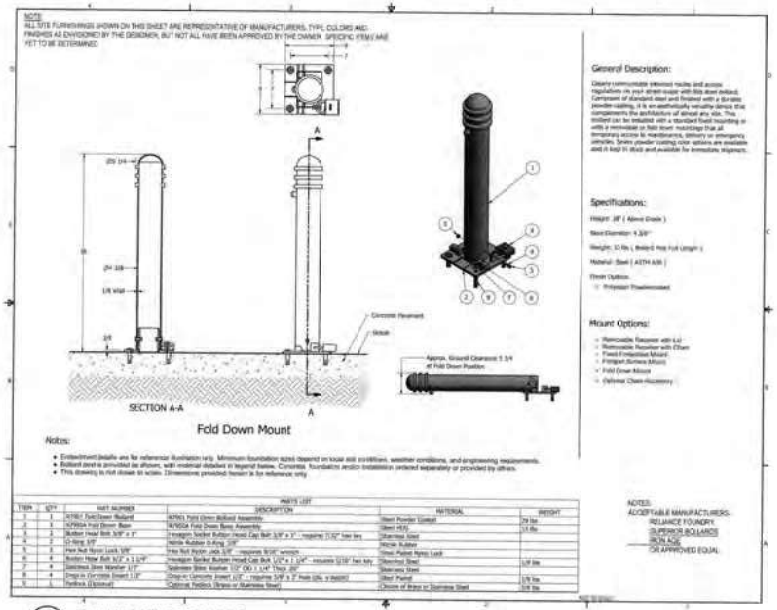


C1 CS-503 BIKE RACK
SCALE: NTS

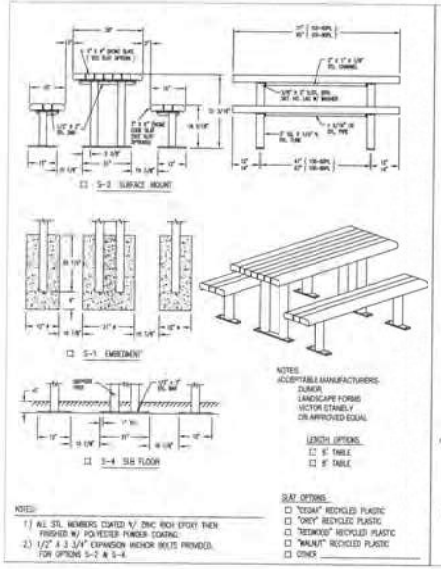


D2 CS-503 ANCHORED SWIVEL WOOD SLAT CHAIR
SCALE: NTS

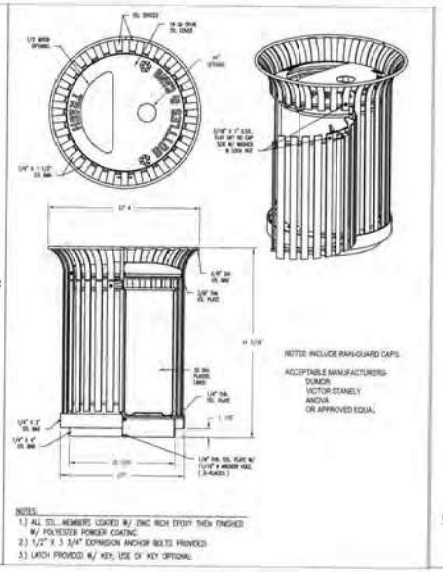
C2 CS-503 GALVANISED STEEL SQUARE TABLE
SCALE: NTS



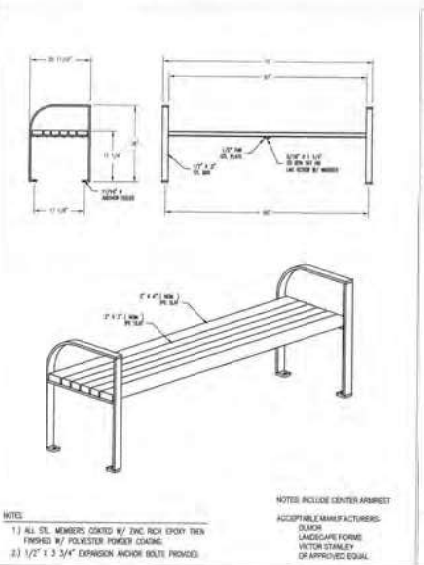
C3 CS-503 COLLAPSIBLE BOLLARD
SCALE: NTS



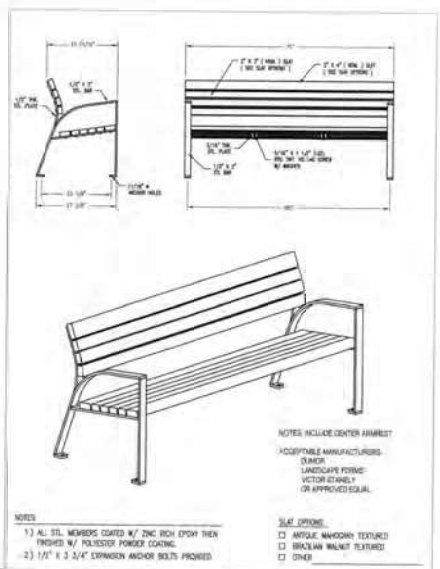
A1 CS-503 8' RECYCLED PLASTIC PICNIC TABLE
SCALE: NTS



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



A3 CS-503 BACKLESS BENCH
SCALE: NTS



A4 CS-503 BACKED BENCH
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

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

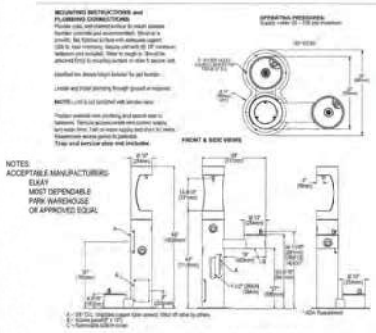
SITE DETAILS

moffatt & nichol

THE EAST GROUP

SEAL 01.31.25

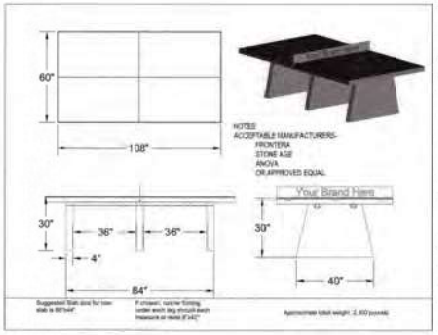
Sheet Reference No.
CS-503



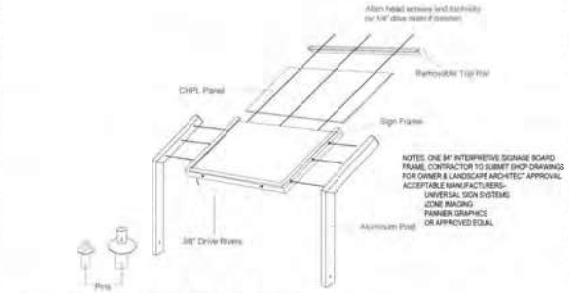
C1 CS-504 OUTDOOR BOTTLE FILLING STATION
SCALE: NTS

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 CS-504 OUTDOOR TABLE TENNIS BENCHES
SCALE: NTS

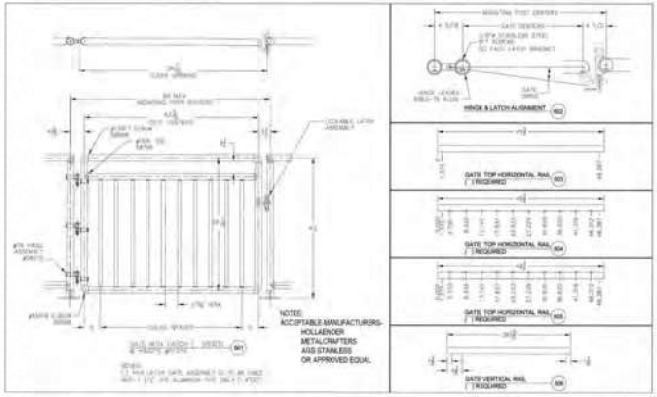


C3 CS-504 CONCRETE OUTDOOR TABLE TENNIS
SCALE: NTS

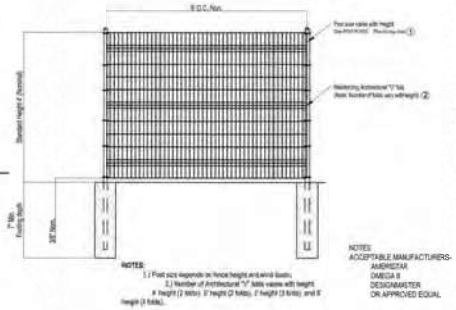


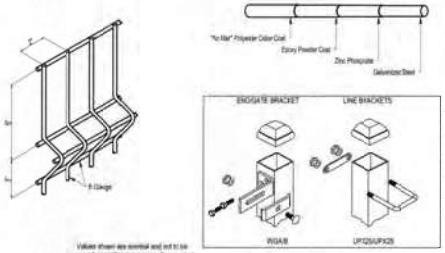
C4 CS-504 INTERPRETIVE SIGNAGE BOARD FRAME
SCALE: NTS

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

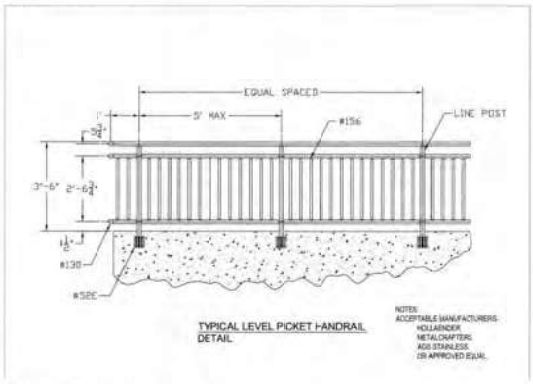


A1 CS-504 42" HT. METAL NON SELF CLOSING GATE
SCALE: NTS





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



A4 CS-504 42" HT. METAL FENCING
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

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

SITE DETAILS

moffatt & nichol

THE EAST GROUP

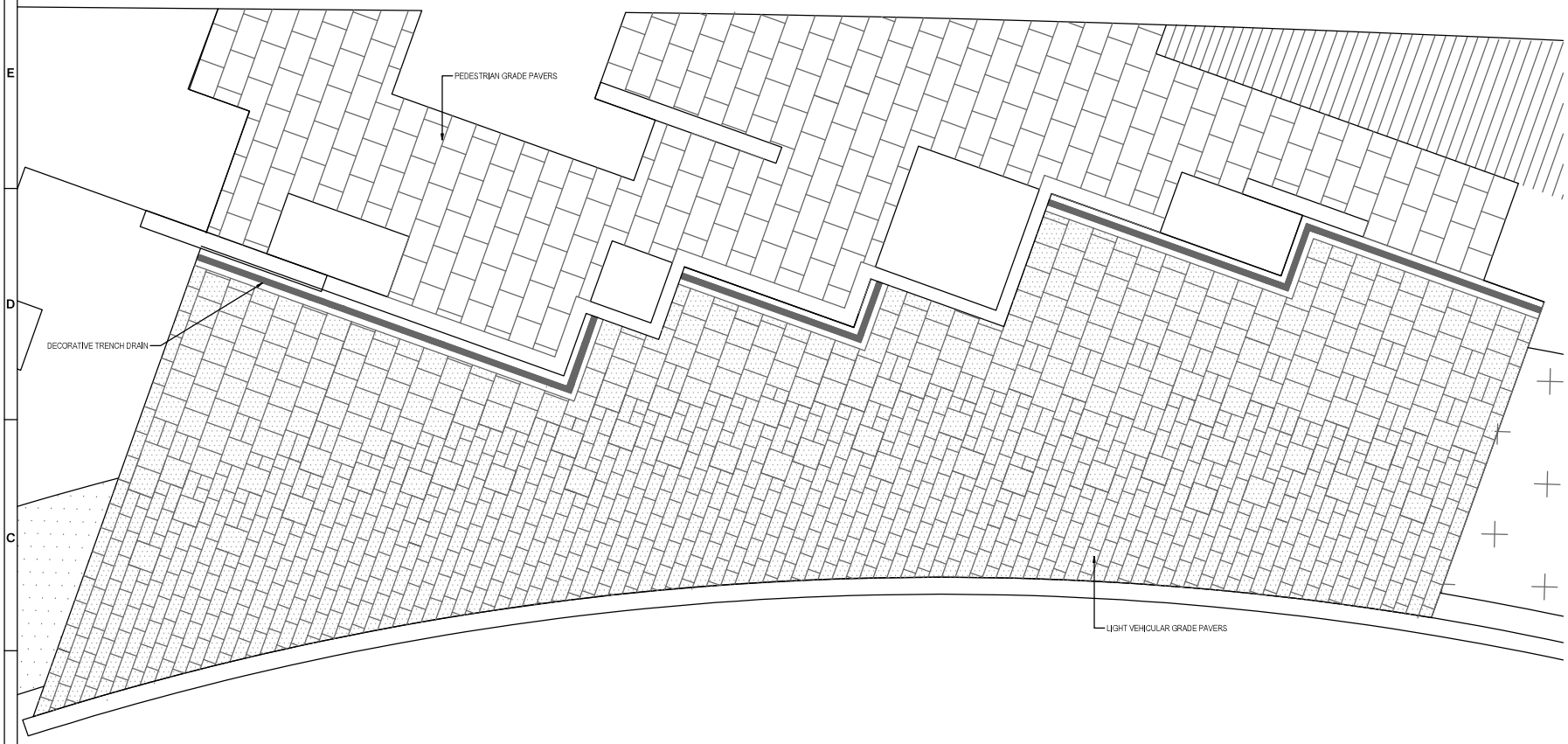
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1849 KATHLEEN RIDGE

SEAL 01.31.25

Sheet Reference No
CS-504

INDEX: 53 OF 114

File: K:\07_Projects\Greenville, City of\TC\23217 M&N LCM Town Com Bulkhead\dwg\2 Construction Plans\CRE-TSI-A Sheet Set\CS\23217_CS-507_SITE_DTLS.; Plotted: 1/31/2025 3:19 PM by ALEX HUNT ; Saved: 1/31/2025 12:55 PM by COLLEEN BANGLE



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Dwn.
A	2025-02-07	ISSUED FOR BID	SR
B	2025-03-14	FINAL CO REVIEW	SR
		ISSUED FOR BID	
B	2025-03-14	RESUBMIT PER CCG SITE PLAN COMMENTS	01/31/25
A	2025-01-31	CCG SITE PLAN REVIEW	

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

CS-505 - PAVING PATTERN WEST

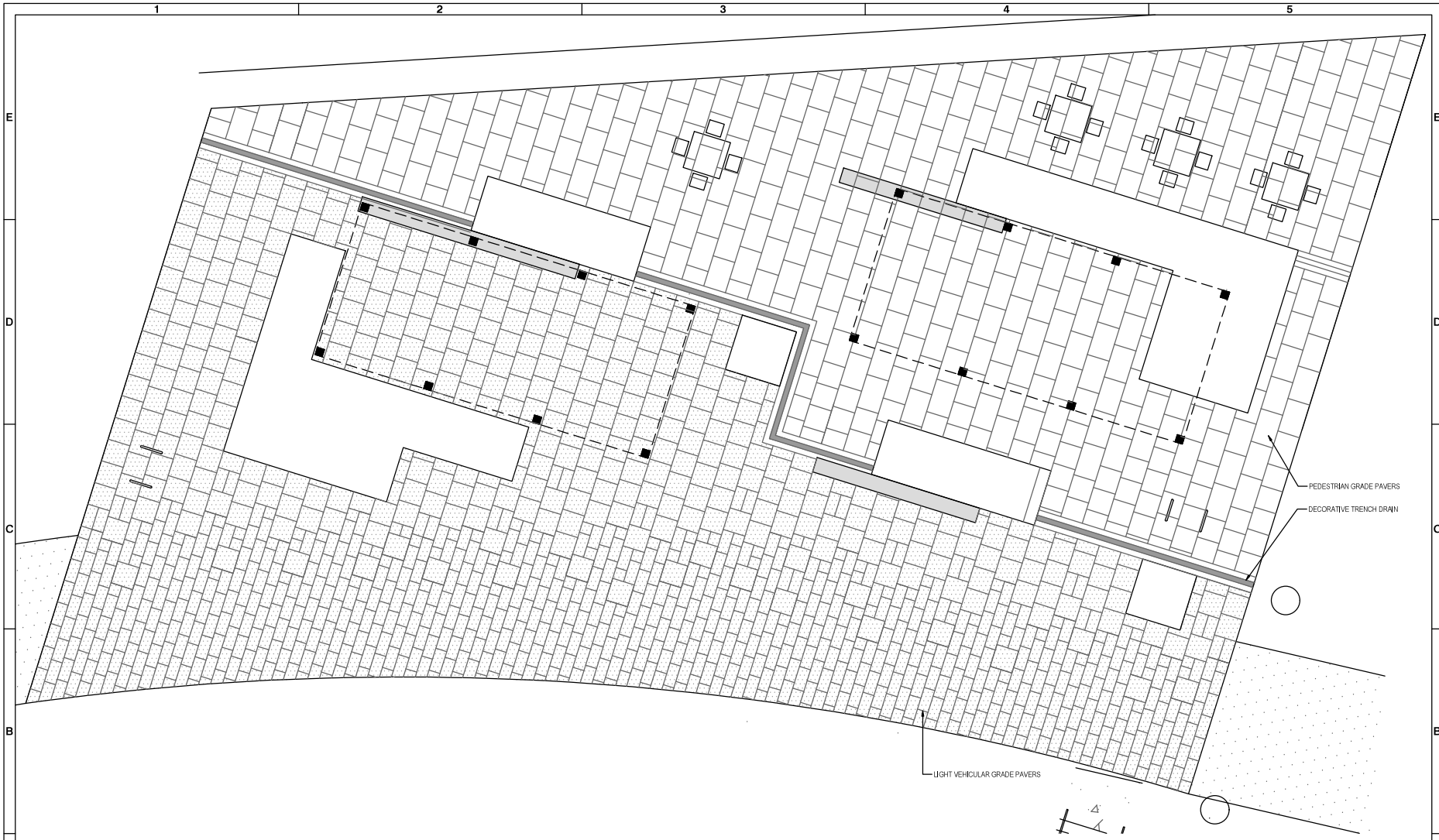
Designed by: SR
Date: 09/23/24
Rev.
Dwn by: SR
Ckd by: MS
M&N Project No. 221315-02
Reviewed by: SR
Covering Code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (D SHEET)
Submitted by: MARK PIRRELLO MOFFATT & NICHOL
Submitted by: THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427
334 EVANS ST GREENVILLE, NC 27834 252-758-1746
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 919-781-4626
NC FIRM LICENSE NO. F-0105

NORTH CAROLINA PROFESSIONAL SEAL 15819 KATHLEEN RIDE
01.31.25

SEAL

Sheet Reference No.
CS505
INDEX: 54 OF 114

File: K:\01_Projects\Greenville, City of\2022\2217 M&N CCG Town Com Bus\working\3 Construction Plans\SHEETS\L\L Sheet Set\2022\2217_CS-501_SITE_DTLS - Plotted: 2/3/2025 3:07 PM by: COLLEEN BANDLE - Saved: 2/3/2025 3:28 PM by: COLLEEN BANDLE



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Drawn
A	2025-02-07	INTERNAL QC & RV	BDR
B	2025-02-14	INTERNAL QC & RV	BDR
		ISSUED FOR BID	
B	2025-02-21	RESUBMIT PER COG SITE PLAN COMMENTS	2/25/25
A	2025-01-31	COG SITE PLAN REVIEW	1/31/25

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

CS-506 - PAVING PATTERN EAST

Designed by: SR
Date: 08/23/24
Rev.
Dwn by: SR
Ckd by: MS
MBA Project No. 221315-02
Reviewed by: SR
Covering Locks
Drawing Scale: AS SHOWN
Sheet Scale: 1:1 (D SHEET)
Submitted by: MARK PIRRELLO MOFFATT & NICHOL

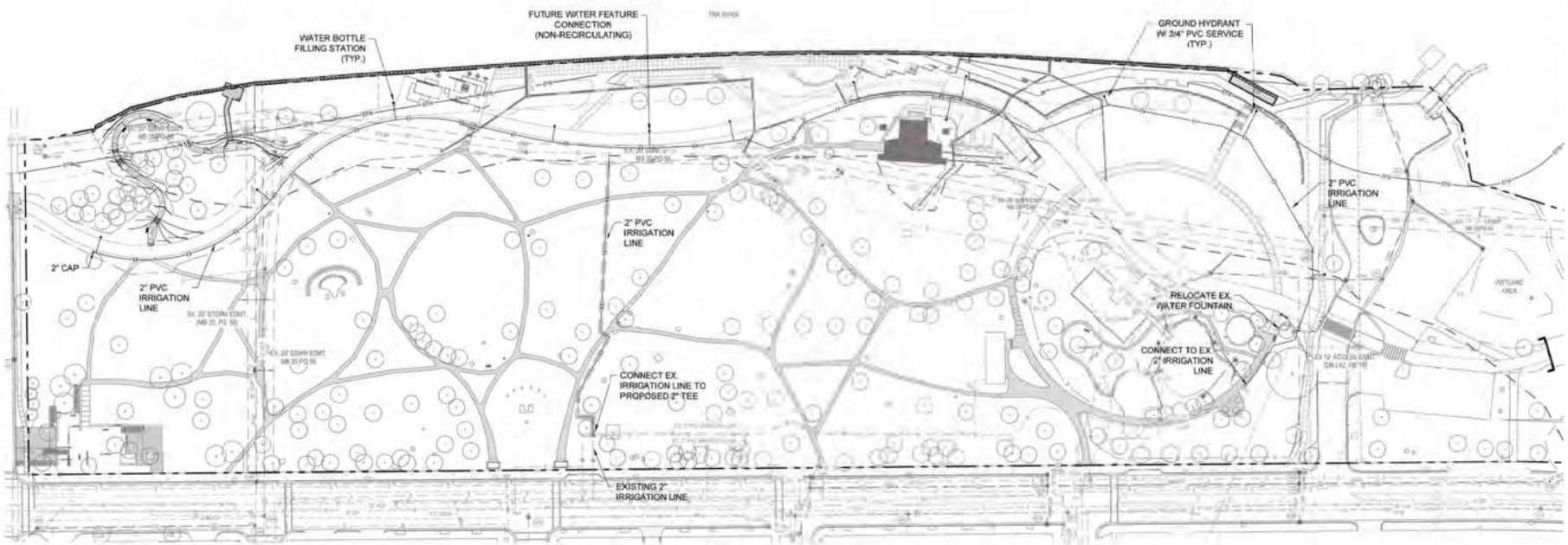
4700 FALLS OF NEUSE RD, SUITE 300
RALIGH, NC 27609
NC FIRM LICENSE NO. C-1205
NC FIRM LICENSE NO. C-4105

330 EVANS ST
GREENVILLE, NC 27834
252-758-1246
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL
01.31.25

Sheet Reference No.
CS506
INDEX: 55 OF 114

File: K:\Pr_Projects\Greenville, City of\2022\2217 M&N COG Town Com Bustnerdring\3 Construction Plans\SHEETS\A Sheet Set\2022\2217_CS-501_SITE_DTLS - Plotted: 2/3/2025 3:07 PM by COLLEEN BANDLE - Saved: 2/3/2025 3:26 PM by COLLEEN BANDLE

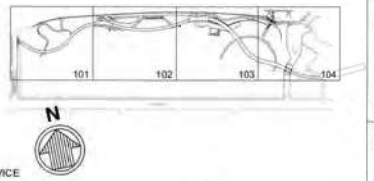


UTILITY NOTES

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 36.0	EX. SPOT ELEVATION
36	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



N

120' 0' 60' 120'
SCALE: 1"=60'

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & EXPANSION PROJECT

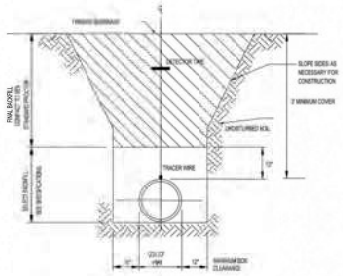
OVERALL UTILITY PLAN

moffatt & nichol

THE FIRST GROUP

1/31/25

Sheet Reference No.
CU-101

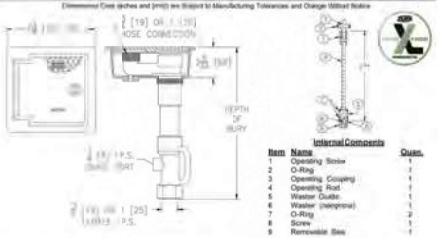


E1 (CU-501) WATER PIPE TRENCH
N.T.S.

ZURN Z1360XL
GROUND HYDRANT
Encased, Flush Type, Non-Freeze

SPECIFICATION SHEET
TAG _____

Dimensions/ Cross (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Internal Components

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]	23 [11]
5 [1524]	33 [15]
6 [1829]	39 [18]
7 [2134]	43 [20]
8 [2438]	47 [21]
9 [2743]	52 [24]
10 [3048]	58 [26]

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 lox 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.

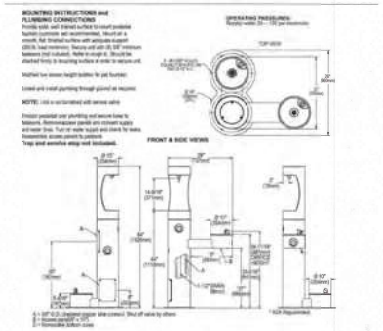
CONNECTIONTYPE:
____ 3/4 [19] Hose Connection
____ 1 [25] Hose Connection

SUFFIXES
___ -C: D.C.I.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 (-C) and -NB only)
___ -R: 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 Lumber unless minimum 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. 800-833-9879, Fax 814-454-7505
In Canada : Zurn Industries Limited
3594 Nashua Drive Mississauga Ontario L4V 1L2 Ph. 905-405-6872, Fax 905-405-1208
www.zurn.com

Rev. A
Date: 6/8/15
C.N. No. 133858
Prod. | Dwg. No. Z1360XL



B2 (CU-501) OUTDOOR BOTTLE FILLING STATION
N.T.S.

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & EARLANDS PROJECT

UTILITY DETAILS

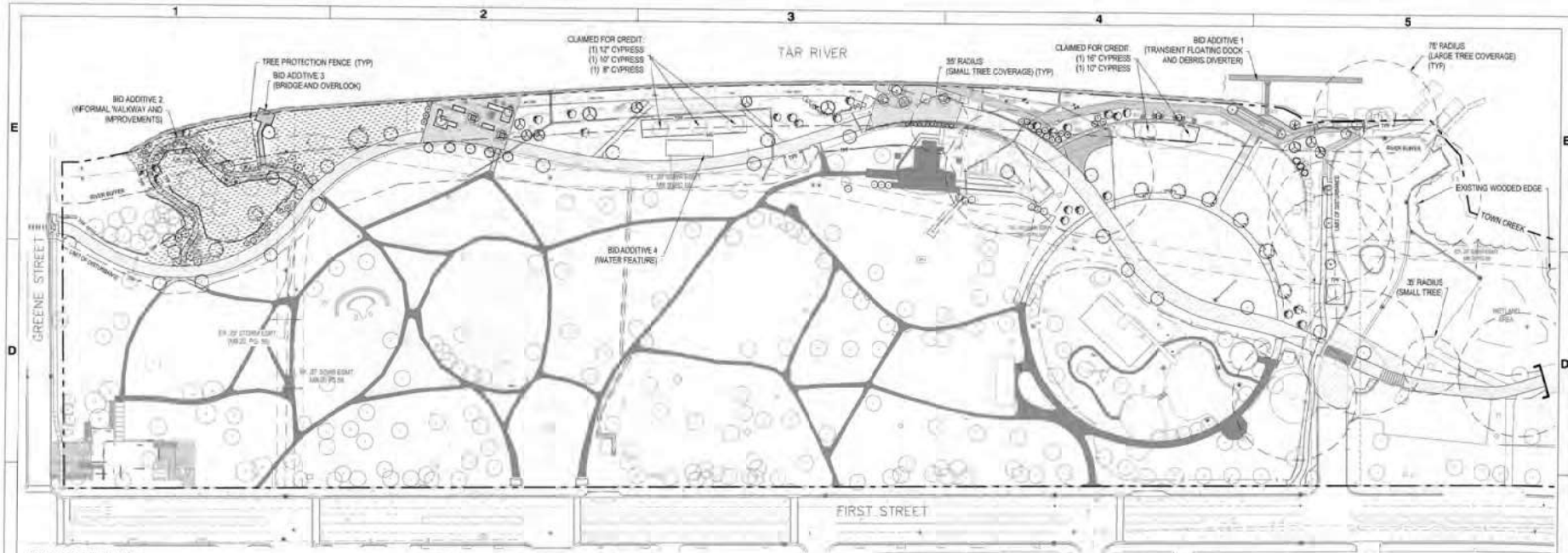
mattatt & nichol

THE FIRST GROUP

1/31/25

Sheet Reference No.
CU-501

INDEX: 57 OF 114



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 @ 8' oc
	NS	5	*Nyssa sylvatica Red Sylvator* (Red Sylvator 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	8	*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 (B) 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

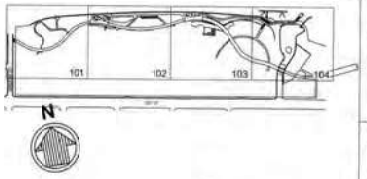
*PROPOSED TREES AS SUBSTITUTE FOR SHRUBS=
14 LARGE TREES = 14 x 5 = 70 SHRUBS
22 SMALL TREES = 18 x 3 = 54 SHRUBS
TOTAL CLAIMED= 124 SHRUBS

**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



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & BIPV CANOPIES PROJECT

OVERALL PLANTING PLAN

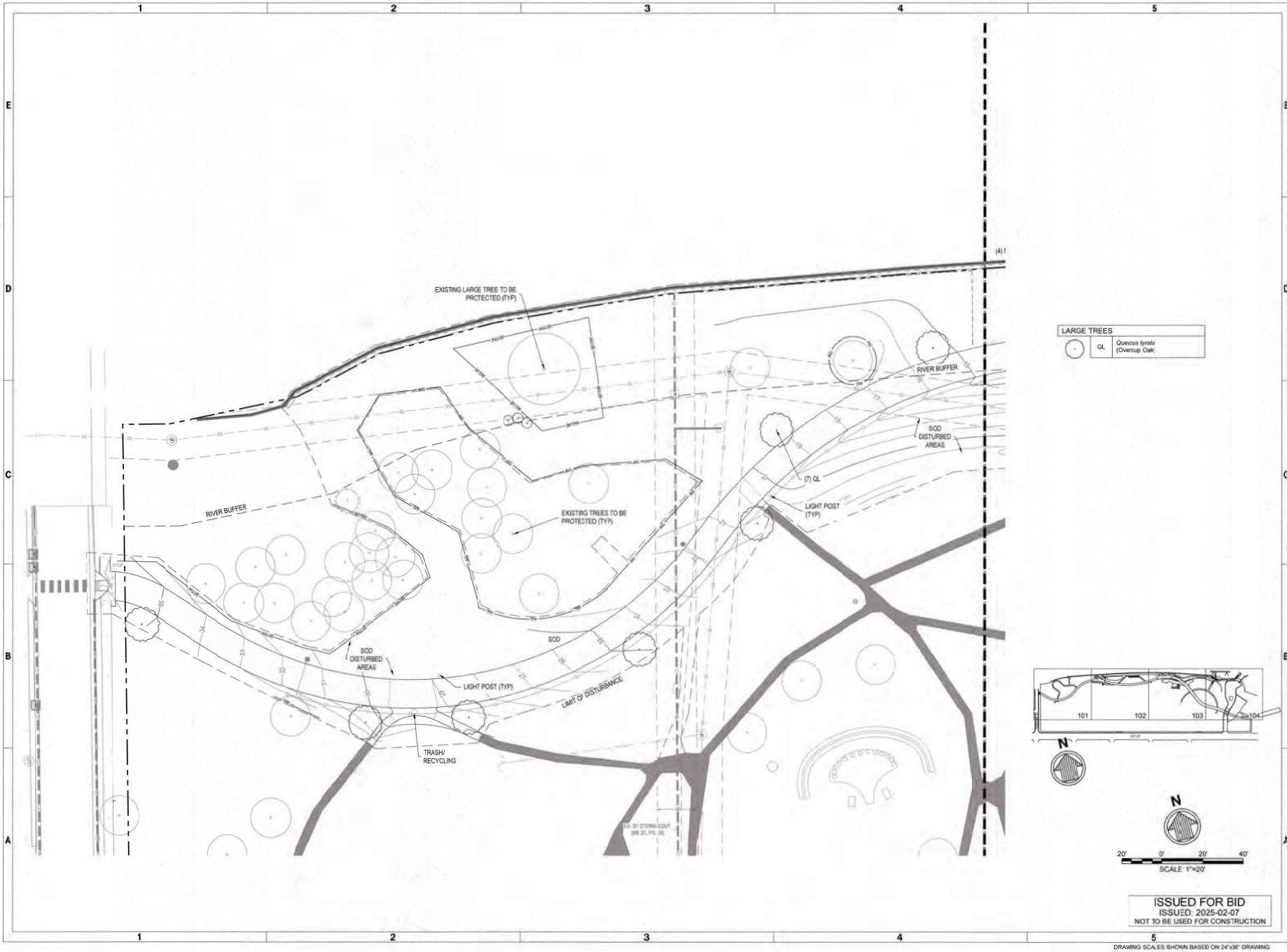
mcnott & nichol

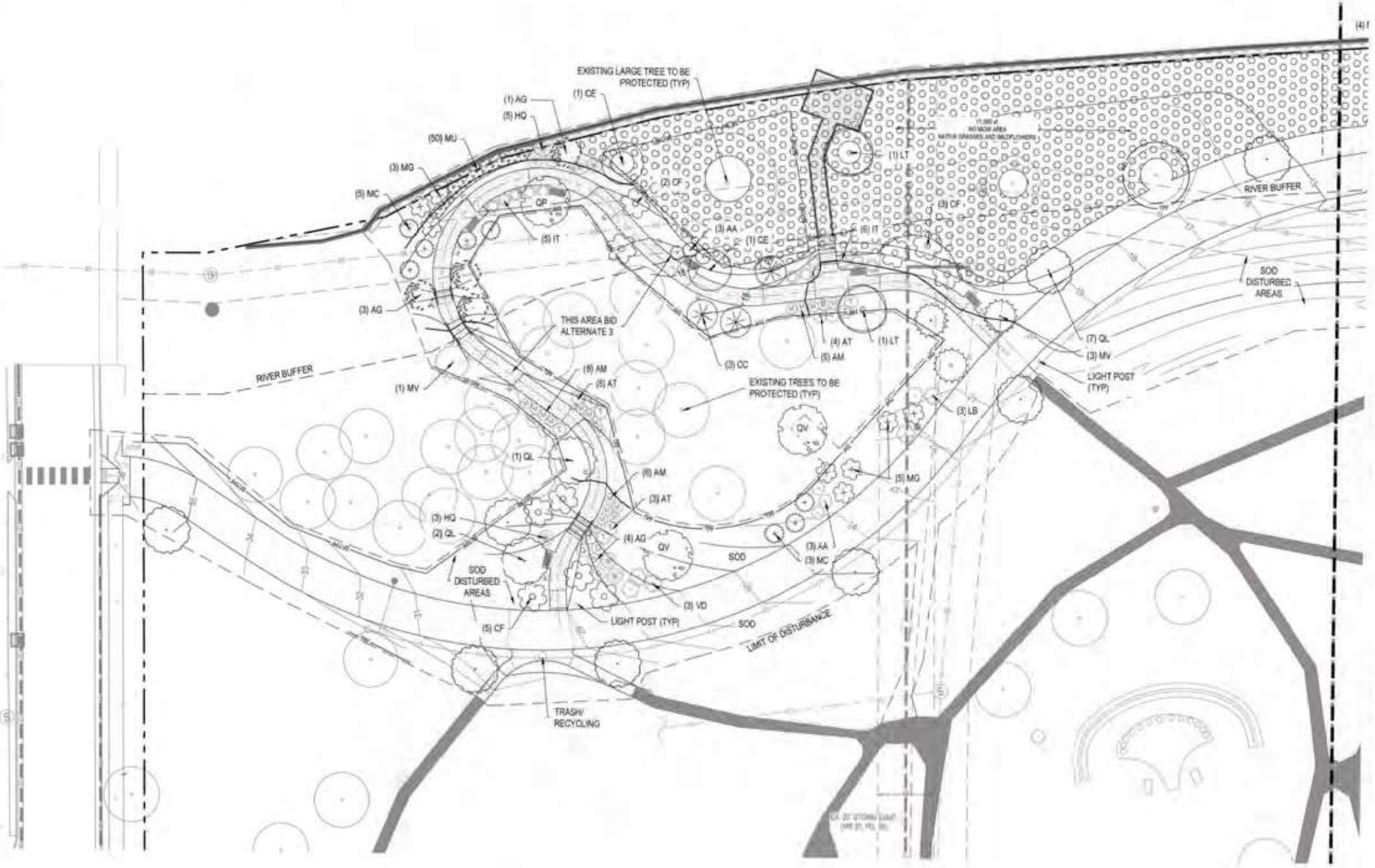
THE EAST GROUP

NORTH CAROLINA LICENSED LANDSCAPE ARCHITECT KATHLEEN RINE 1740

SEAL 02-13-25

Sheet Reference No.
CL100


EXISTING LARGE TREE TO BE PROTECTED (TYP)
RIVER BUFFER
EXISTING TREES TO BE PROTECTED (TYP)
SOD DISTURBED AREAS
SOD
LIGHT POST (TYP)
LIMIT OF DISTURBANCE
TRASH/ RECYCLING
(7) QL
LARGE TREES
QL Quercus lyrata (Overcup Oak)
101
102
103
104
N
20' 0' 20' 40'
SCALE: 1"=20'
ISSUED FOR BID
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION
Greenville
NORTH CAROLINA
GREENVILLE TOWN COMMONS & ESPLANADE PROJECT
PLANTING PLAN (WEST)
moffatt & nichol
THE EAST GROUP
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN RHINE
02.13.25
Sheet Reference No.
CL101
INDEX 59 OF 114
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

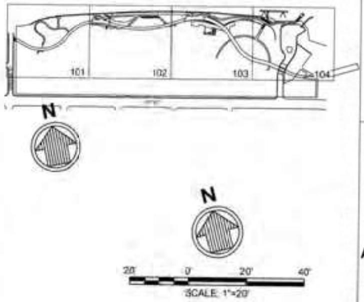


LARGE TREES		
○	QL	*Quercus lyrata* (Overcup Oak)
⊙	CE	*Celtis occidentalis* (Hackberry)
○	QV	*Quercus virginiana* (Live Oak)
⊙	LT	*Liriodendron tulipifera* (Tulip Poplar)
○	QP	*Quercus phellos* (Willow Oak)

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)
G	GG	*Azalea* 'G.G. Gerbing' (Gerbing Azalea)
T	AT	*Azalea Encore®* Autumn Twist® (Autumn Twist Azalea)
M	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
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville
NORTH CAROLINA

GREENVILLE TOWN COMMONS
& ESPLANADE PROJECT

PLANTING PLAN (WEST)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609

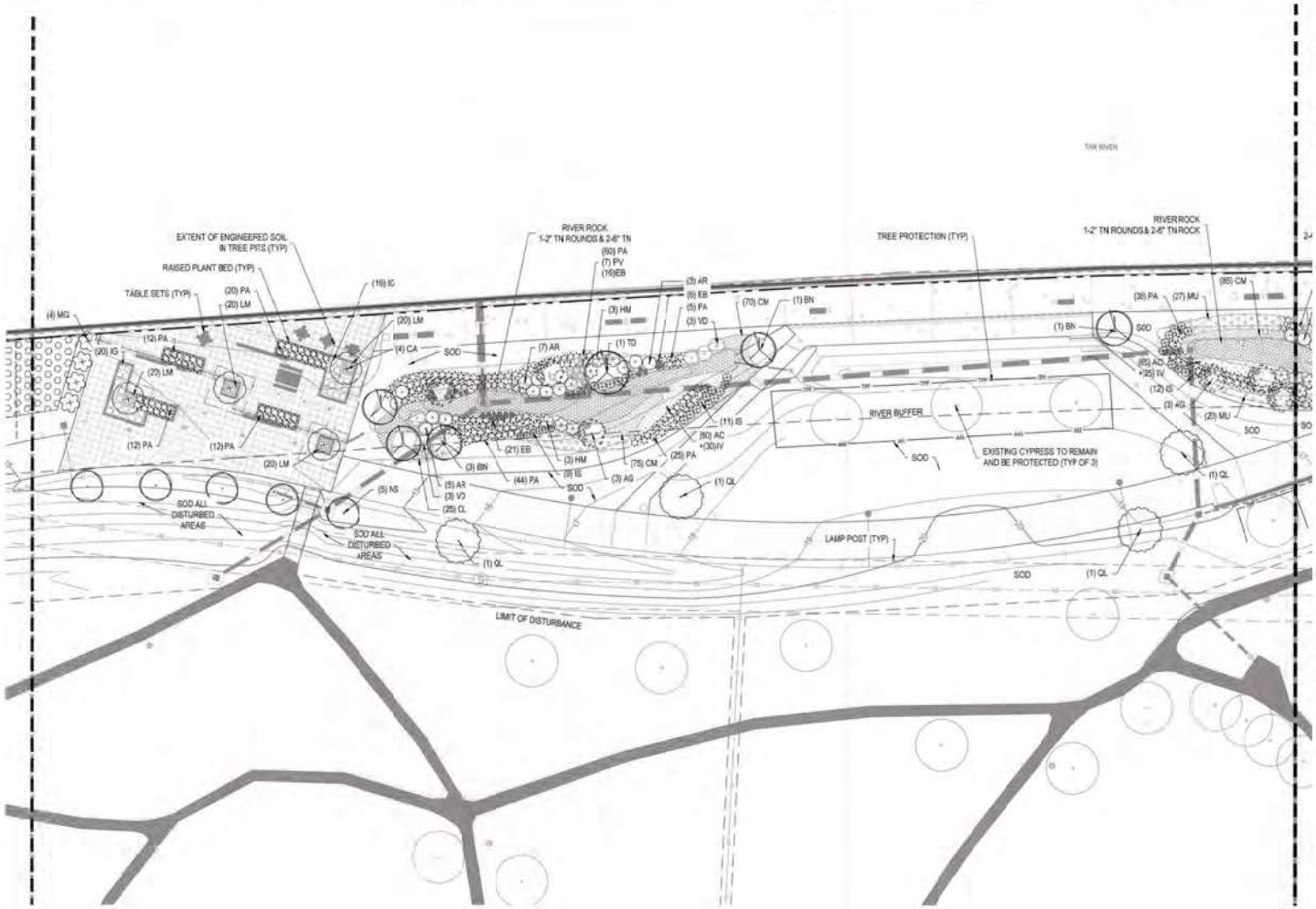
THE EAST GROUP
324 EVANS ST
GREENVILLE, NC 27834

Date: 11/01/2024
Drawing Scale: AS SHOWN

NORTH CAROLINA
KATHLEEN RIDE
1840
02.13.25

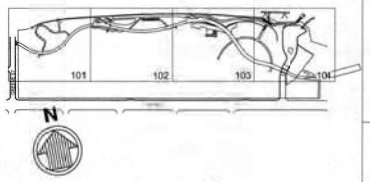
SEAL

Sheet Reference No.
CL101A
INDEX: 59A OF 114



LARGE TREES	
QL	Quercus lyrata (Overcup Oak)
CA	Carpinus caroliniana (American Hornbeam)
NS	Nyssa sylvatica Red Splendor (Red Splendor 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' (Nelie 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)



N

20' 0' 20' 40'

SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville
NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (CENTER-WEST)

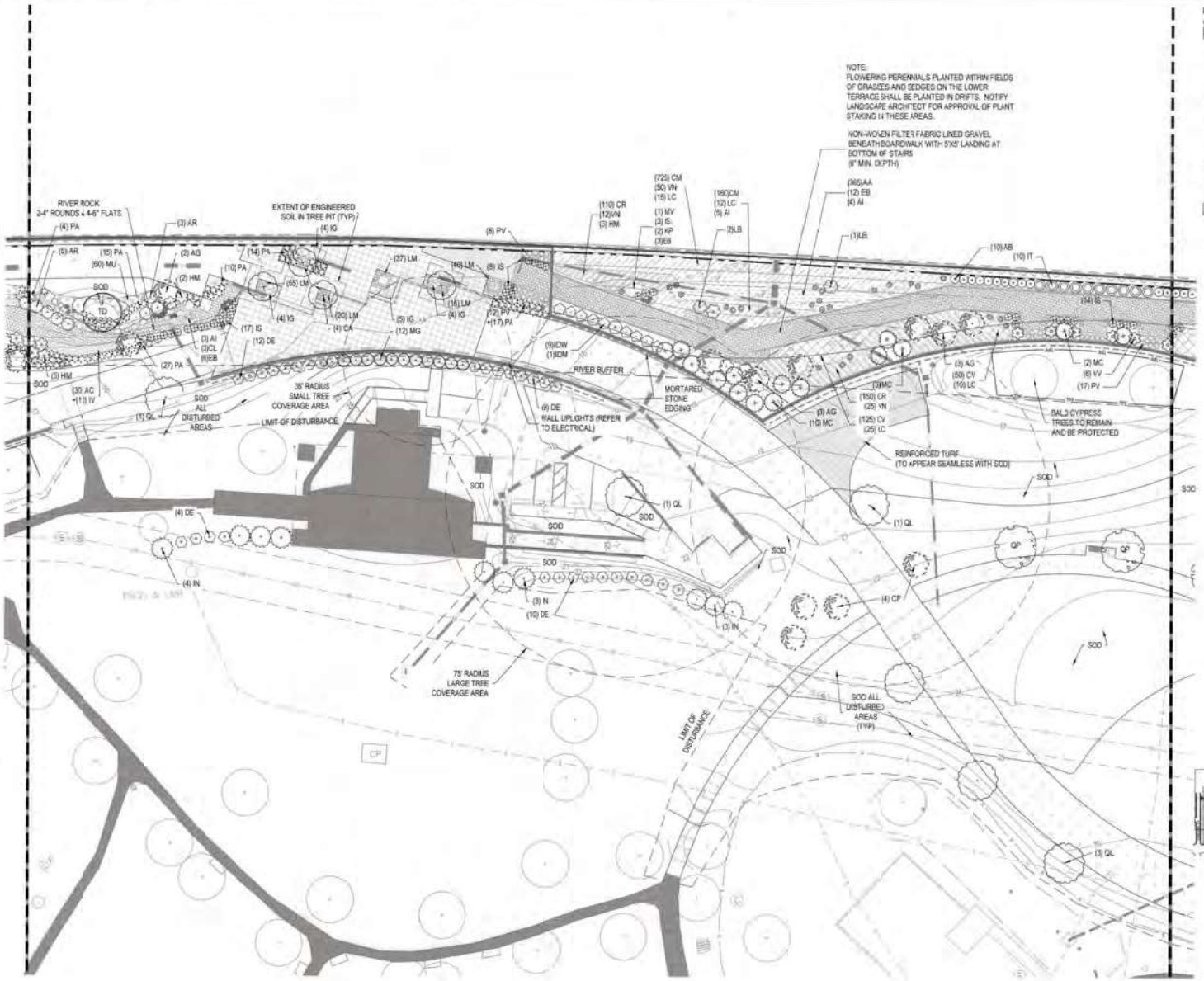
moffatt & nichol

THE EAST GROUP

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN BARGE

02.13.25

Sheet Reference No.
CL102
INDEX: 60 OF 114



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 Splynter (Red Splynter Tupelo)
	CL	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 'Henry' (Swamp Magnolia)
	MC	Myrica cerifera (Southern Wax Myrtle)

SCALE: 1"=20'

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

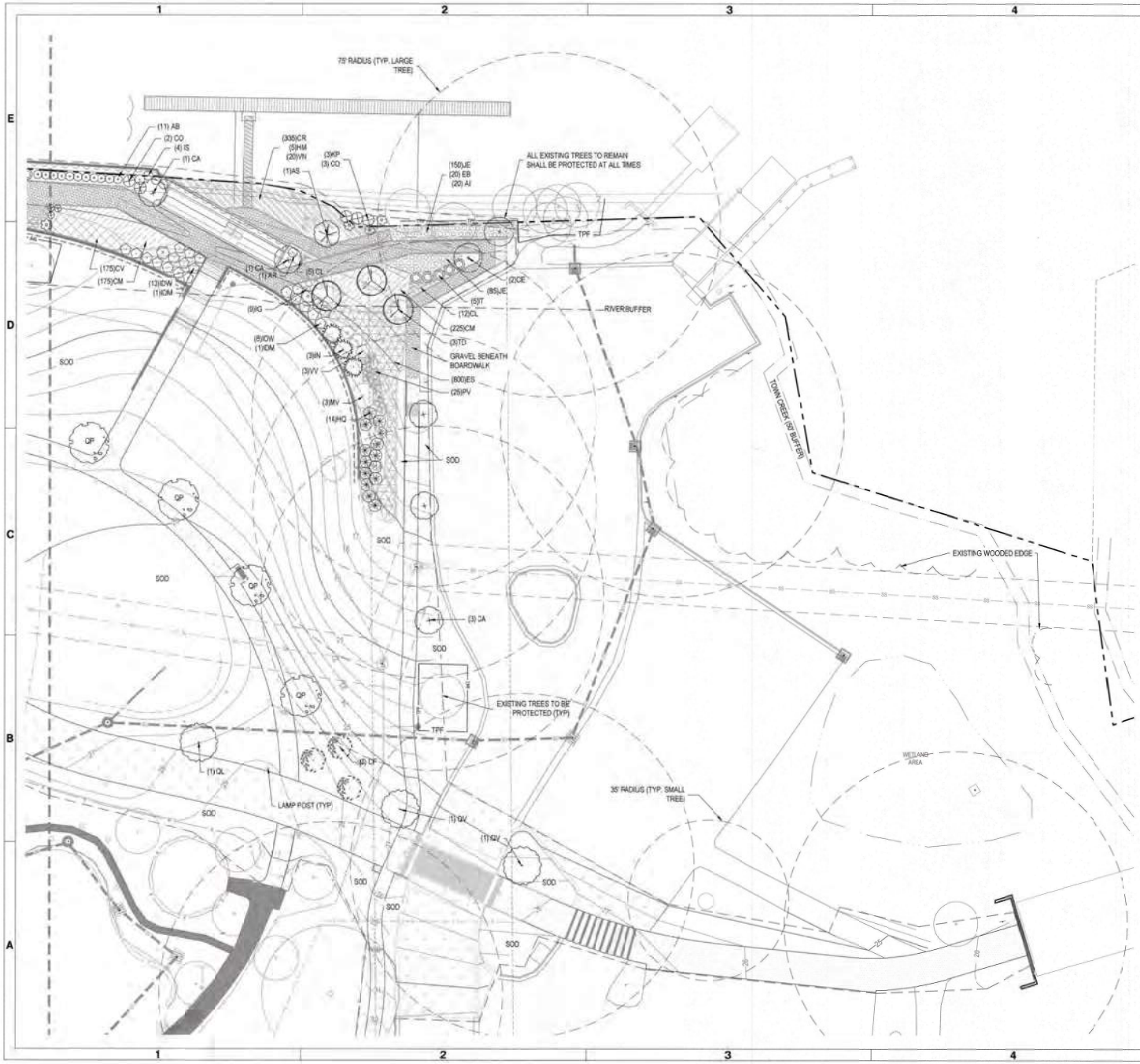
PLANTING PLAN (CENTER-EAST)

moffatt & nichol

THE EAST GROUP

Sheet Reference No.
CL103

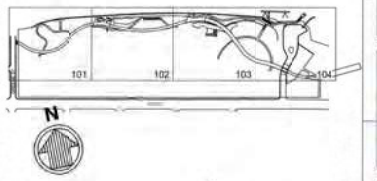
INDEX 61 OF 114



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 Sprynzer'* (Red Sprynzer 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		
	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)



N

20' 0' 20' 40'
SCALE: 1"=20'

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.	Date	Description
3	2/13/2025	REISSUED FOR BID
2	1/24/2025	REISSUED PER CCO SITE PLAN COMMENTS
1	12/20/2024	ISSUED FOR PLAN REVIEW

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING PLAN (EAST)

moffatt & nichol
4709 FALLS OF NEUSE RD., SUITE 200
RALEIGH, NC 27609
NC FIRM LICENSE NO. F-0163

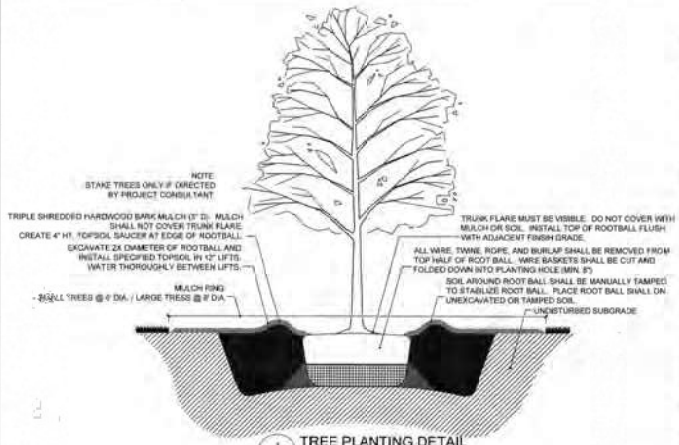
THE EASTGROUP
324 EVANS ST
GREENVILLE, NC 27834
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-457

Designed By: GR
Drawn By: MN
Checked By: GR
Approved By: MN
Date: 11/01/2024
Drawing Scale: 1"=20'
Project No.: 2013.0142
Plot Scale: 1:1 (D SIZE)

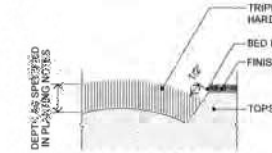
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1840 KATHLEEN RUSE
SEAL
02.13.25

Sheet Reference No.
CL104

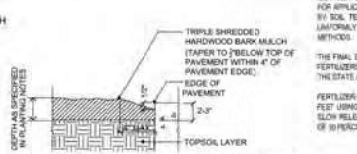
File: K:\W_Projects\Greenville, City of\C3220217 MEN CVG Town Com Rulkowski\dwg\3 Construction Plans\PINE\T3\L4 Sheet Set\C3220217_C-301_PLNT_Plotted: 2/13/2025 3:49 PM by COLLEEN BANGLE Saved: 2/13/2025 3:28 PM by COLLEEN BANGLE



1 CL501 TREE PLANTING DETAIL
N.T.S.

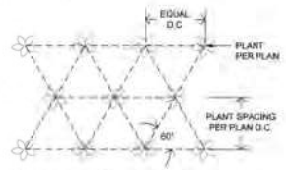


2 CL501 PLANTING BED EDGE (AT SOD)
N.T.S.



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 HIGHER 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 OF 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 OF STEEL EDGING TO PROHIBIT WASHOUT OR MIGRATION OF MULCH TO ADJACENT SURFACE.

ANTI-DESICCANT SPRAY: TREES AND VINES PLANTED IN LEAF SHALL BE TREATED WITH ANTI-DESICCANT SUCH AS "WILTPROOF".

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 12" OF TOPSOIL APPLIED (DEPTH AFTER ROLLING).

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 PIECES OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE. ONLY MOST FRESH UNWEIGHED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 48 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 TURF GRASS BEING SPECIFIED.

FERTILIZER SHALL BE APPLIED AT THE RATE OF 650 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 16-20-10 OR EQUIVALENT. IN ADDITION, 800 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 sign. 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 TO 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 3:1 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SPRINKLES (6 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 SITE 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 (100 POUNDS 38-0-0 FOR ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP TOPDRESSING IS NOT MANDATORY. SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 16-25-10 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.

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 COUPLING 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 CHANGE TO THE OWNER. A TREE IS CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR THERE IS 25% OF THE CROWN DEAD.

PLANT SCHEDULE

Symbol	Qty	Key	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
LARGE TREES								
	28	18	Quercus acutissima (Oversize Oak)	14' min	-	3" min	-	Single, straight leader; full crown
	13	13	Carpinus caroliniana (American Hornbeam)	12' (min)	-	2.5" min	-	Single, straight leader; full crown
	3	3	Nyssa sylvatica 'Red Sprite' (Red Sprite tupelo)	12' (min)	-	2.5" min	-	Single, straight leader; full crown
	2	2	Cercis canadensis (redbud)	12' (min)	-	2.5" min	-	Single, straight leader; full crown
	7	7	Quercus virginiana (Live Oak)	12' min	-	2.5" min	-	Single, straight leader; full crown
	6	6	Quercus phellos (Willow Oak)	12' (min)	-	2.5" min	-	Single, straight leader; full crown
	3	3	Taxodium dist. 'Shawnee Brave' (Shawnee Brave Bald Cypress)	12' (min)	-	2.5" min	-	Single, straight leader; full crown
	5	5	Betula nigra 'Dura-Heat' (River Birch)	12' (min)	-	3" min	-	Multistemmed; full crown
	5	5	Liriodendron tulipifera (Tulip Poplar)	12' min	-	2.5" min	-	Single, straight leader; full crown
SMALL TREES								
	1	1	Alnus serrulata (Tag Alder)	8' min	-	1.5" min	-	
	13	13	Ilex x Nellie Stevens (Nellie Stevens Holly)	8' min	-	1.5" min	-	Single, straight leader; full crown
	1	1	Cercis canadensis 'Forest Pansy' (Forest Pansy Redbud)	8' min	-	1.5" min	-	
	18	18	Magnolia gr. 'Little Gem' (Little Gem Magnolia)	8' min	-	1" min	-	
	9	9	Cornus fl. 'Cherokee Princess' (Flowering Dogwood)	8' min	-	1.5" min	-	
	11	11	Amelanchier gr. Autumn Brilliance (A. B. Serviceberry)	8' min	-	1.5" min	-	Multistemmed; full crown
	4	4	Magnolia virginiana cuthbertii (Sweetbay Magnolia)	8' min	-	1.5" min	-	Multistemmed; full crown
	15	15	Myrica cerifera (Southern Wax Myrtle)	8' min	-	1.5" min	-	Multistemmed; tree form; full crown
SHRUBS								
	75	75	Ilex glabra 'Shamrock' (Shamrock Inkberry Holly)	18" min	-	-	#3	Plant @ 5.5' oc
	21	21	Aronia arbutifolia 'Brilliantissima' (Red Chokeberry)	24" min	-	-	#3	Plant @ 3.5' oc
	21	21	Aronia arbutifolia 'Brilliantissima' (Red Chokeberry)	36" min	-	-	#15	Plant @ 5.5' oc
	52	52	Ilex glabra 'Gem Box' (Gem Box Inkberry Holly)	15" min	-	-	#3	Plant @ 2 - 2.5' oc
	8	8	Viburnum dentatum 'Christom' (Arrowwood Viburnum)	36" min	-	-	#3	Plant @ 5' oc
	8	8	Juniperus chinensis 'Parsoni' (Parson's Juniper)	18" min	-	-	#10	Plant @ 4' oc
	8	8	Ilex crenata 'Compacta' (Compacta Holly)	18" min	-	-	#3	Plant @ 5' oc
	31	31	Hibiscus moscheutos (Swamp Rose Mallow)	-	-	-	#3	Plant @ 2.5' oc
	58	58	Ilex decidua 'Warren's Red' (Possumhaw)	48" min	-	-	#7	Plant @ 5' oc
	3	3	Ilex decidua 'Winter Red' (Possumhaw (male))	48" min	-	-	#7	Plant @ 5' oc
	11	11	Ilex vomitoria 'Henry's Garnet' (Henry's G. Virginia Sweetspire)	-	-	-	#3	Plant @ 5' oc
	3	3	Lindera benzoin (Spicebush)	-	-	-	#3	Plant @ 5' oc
	14	14	Hydrangea paniculata 'Quick Fire' (Quick Fire Hydrangea)	-	-	-	#10	Plant @ 5' oc
	9	9	Viburnum rufotomentosum (Rusty Viburnum (Rusty Blackhaw))	-	-	-	#3	Plant @ 5' oc min or as shown
	38	38	Dichroa 'Emerald Heights' (Emerald Heights Dichroa)	-	-	-	#3	Plant @ 5' oc
	5	5	Kosteletzkya pentacapsa (Marsh Mallow)	-	-	-	#7	Plant @ 2.5' oc
	5	5	Cephalanthus occidentalis (Buttonbush)	-	-	-	#3	Plant @ 5' oc
G	43	43	Azalea 'G.G. Gerbing' (Gerbing Azalea)	24" min	-	-	#3	Plant @ 5' oc
T	17	17	Azalea 'Encore® Autumn Twilight' (Autumn Twilt Azalea)	18" min	-	-	#3	Plant @ 4' oc
M	43	43	Azalea 'Encore® Autumn Fire' (Autumn Fire Azalea)	12" min	-	-	#3	Plant @ 3' oc
GRASSES & PERENNIALS								
	89	89	Panicum virg. 'Northwind' (Northwind Switchgrass)	18" min	-	-	#3	Plant @ 2' oc
	31	31	Panicum virg. 'Shenandoah' (Switchgrass)	18" min	-	-	#3	Plant @ 18" oc
	1353	1353	Carex amphibula (Creek Sedge)	-	-	-	Large plug	Plant @ 18" oc
	474	474	Acorus americanus (Sweet Flag)	-	-	-	Large plug	Plant @ 18" oc
	188	188	Acorus gramineus 'Ogon' (Ogon Sweet Flag)	8" min	-	-	#1	Plant @ 18" oc
	99	99	Iris virginica (Southern Blue Flag Iris)	-	-	-	Large plug	Plant @ 18" oc
	242	242	Liriope muscari 'Big Blue' (Big Blue Lilyturf)	8" min	-	-	#1	Plant @ 15" oc
	78	78	Euonymus fortunei (Coralle Jos Eye Wood)	-	-	-	#1	Plant @ 18" oc
	33	33	Asclepias incarnata (Swamp Milkweed)	-	-	-	#1	Plant @ 2' oc
	107	107	Muhlenbergia capillaris (Pink Muhly Grass)	-	-	-	#1	Plant @ 2' oc
	46	46	Chasmanthium latifolium (River Oats)	-	-	-	#1	Plant @ 2' oc
	82	82	Ctenanthe lanuginosa (Lancelleaf Ctenanthe)	-	-	-	#1	Plant @ 18" oc
	900	900	Sporobolus heterolepis (Prairie Dropseed)	-	-	-	Large plug	Plant @ 12" oc
	432	432	Carex radicaulis (Fox Sedge)	-	-	-	Large plug	Plant @ 18" oc
	1042	1042	Consolida ajacis (Rocket Larkspur)	-	-	-	Large plug	Plant @ 18" oc
	320	320	Juncus effusus (Soft Rush)	-	-	-	Large plug	Plant @ 18" oc
	197	197	Verbena canadensis (Rose verbena)	-	-	-	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

#	Revision	Date
1	RESUBMITTED TO SITE PLAN COMMENTS	02/07/25
0	ISSUED FOR CONSTRUCTION	01/13/25

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING DETAILS, NOTES, & SCHEDULE

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

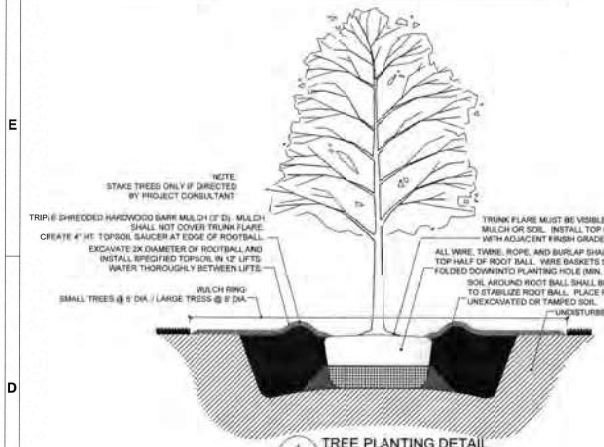
THE EAST GROUP
204 ELVINS ST
GREENVILLE, NORTH CAROLINA 27835-1546
NC ENGINEERING FIRM LICENSE NO. C-0287
NC LANDSCAPE FIRM LICENSE NO. C-0287

Date: 11/01/2024
Drawn by: MB
Checked by: SB
Project No: 25125-02
Drawing scale: AS SHOWN
File name: 11 X 20 SHEET

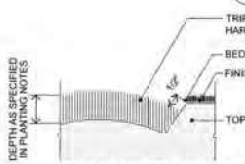
NORTH CAROLINA PROFESSIONAL SEAL 1940 KATHLEEN NUNE
02.13.25

Sheet Reference No.
CL501
INDEX: 63 OF 114

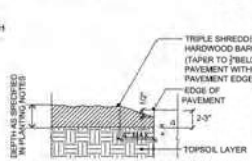
File: K:\Y_Projects\Greenville, City of\25125017 MAN DOG Town Com Bulkhead\dwg\Construction Plans\SHEETS\L4 Sheet Set\25125017_C-001_PLANT_Plotted: 2/13/2025 3:24 PM By: COLLEEN BANDLE - Saved: 2/13/2025 3:18 PM By: COLLEEN BANDLE



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 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 5.6, 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)

WORK PULVERIZED DOLOMITIC LIMESTONE LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A QUEC 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 5.6, 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 FINALED 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 UPAND DOWN THE SLOPE. STAKING 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 FOLLOWUP 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 2½ 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.

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 COMPUTING 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 MOST FRESH UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 18 HOURS.

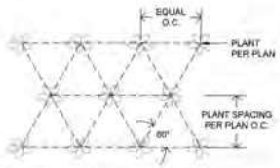
SOIL AMENDMENTS - ALL FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT. FERTILIZER APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. DISTRIBUTE EVENLY OVER AREA TO BE SODDED. LIME AND FERTILIZER SHALL BE UNIFORMLY MIXED INTO THE TOP 2 INCHES 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 (24-11) POUNDS PER 1,000 SQUARE FEET USING 16-20-10 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

4 CL501 SHRUB PLANTING DETAIL N.T.S.



5 CL501 GROUNDCOVER SPACING N.T.S.

PLANT SCHEDULE

Symbol	Key	Qty	Botanical Name (Common Name)	Height	Spread	Caliper	Cont.	Notes
LARGE TREES								
	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 Sprite' (Red Sprite 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 ascendens 'Shawnee Brave' (Shawnee Brave Bald Cypress)	12' min	-	2.5" min	-	Single, straight leader; full crown
	BN	5	Betula nigra 'Cura-man' (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								
	AS	7	Alnus serrulata (Tag Alder)	8' min	-	1.5" min	-	
	IH	19	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)	8' min	-	1" min	-	
	CC	3	Cornus f. 'Cherokee Princess' (Flowering Dogwood)	8' min	-	1.5" min	-	
	AG	15	Amelanchier gr. 'Autumn Brilliance' (A. g. '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	33	Myrica cerifera (Southern Wax Myrtle)	8' min	-	1.5" min	-	Multistemmed; tree form; full crown
SHRUBS								
	IG	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	52	Ilex glabra 'Gem Box' (Gem Box Inkberry Holly)	15" min	-	-	#3	Plant @ 2 - 2.5' oc
	VD	9	Viburnum dentatum 'Chicago' (Arrowwood Viburnum)	18" min	-	-	#3	Plant @ 5' oc
	JP	0	Juniperus chinensis 'Pfitzerii' (Pfitzer'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 @ 3.5' oc
	IDW	30	Ilex decidua 'Warren's Red' (Possumhaw)	24" min	-	-	#7	Plant @ 5' oc
	IDM	3	Ilex decidua 'Midas' (Possumhaw (male))	24" min	-	-	#7	Plant @ 5' oc
	IT	26	Ilex verticillata '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 pentacapsa (Marsh Mallow)	-	-	-	#1	Plant @ 2.5' oc
	CO	5	Cephalanthus occidentalis (Buttonbush)	-	-	-	#5	Plant @ 6' oc
	GG	4	Azalea 'G. G. Gerbing' (Gerbing Azalea)	24" min	-	-	#5	Plant @ 6' oc
	AT	13	Azalea Encore® Autumn Twilight (Autumn Twilight Azalea)	18" min	-	-	#3	Plant @ 4' oc
	AM	19	Azalea Encore® Autumn Fire® (Autumn Fire Azalea)	15" min	-	-	#3	Plant @ 4' oc
GRASSES & PERENNIALS								
	PV	89	Panicum vir. 'Northwind' (Northwind Switchgrass)	18" min	-	-	#3	Plant @ 2 oc
	RA	115	Rudbeckia fulg. 'Shenandoah' (Shenandoah Rudbeckia)	18" min	-	-	#3	Plant @ 18" oc
	CM	1903	Carex vergnicola (Creek Sedge)	-	-	-	Large plug	Plant @ 18" oc
	AA	474	Acorus americanus (Sweet Flag)	-	-	-	Large plug	Plant @ 18" oc
	AC	158	Acorus gramineus 'Ogon' (Ogon Sweet Flag)	6" min	-	-	#1	Plant @ 15" oc
	IV	86	Iris virginica (Southern Blue Flag Iris)	-	-	-	Large plug	Plant @ 18" oc
	LM	247	Liriope muscari 'Big Blue' (Big Blue Lilyturf)	6" min	-	-	#1	Plant @ 15" oc
	EB	79	Eutrochium dubium (Coastal Joe Pye Weed)	-	-	-	#1	Plant @ 18" oc
	AI	33	Asclepias incarnata (Swamp Milkweed)	-	-	-	#1	Plant @ 2 oc
	MU	167	Muhlenbergia capillaris (Pink Muhly Grass)	-	-	-	#1	Plant @ 2 oc
	CL	46	Chasmanthium latifolium (River Oats)	-	-	-	#1	Plant @ 2 oc
	LC	92	Coreopsis lanceolata (Lanceleaf Coreopsis)	-	-	-	#1	Plant @ 18" oc
	ES	860	Eragrostis spectabilis (Purple Lovegrass)	-	-	-	Large plug	Plant @ 12" oc
	CV	480	Carex vulpinoidea (Fox Sedge)	-	-	-	Large plug	Plant @ 18" oc
	CR	1040	Cortaderia ligdula (Red-top Pampa Grass)	-	-	-	Large plug	Plant @ 18" oc
	JE	325	Juncus effusus (Soft Rush)	-	-	-	Large plug	Plant @ 18" oc
	VN	197	Verbena nobaracensis (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

Revision No.	Description	Date	By
1	ISSUED FOR CLIENT REVIEW	02/07/25	CDB
2	ISSUED FOR CONSTRUCTION	02/07/25	CDB

GREENVILLE TOWN COMMONS & ESPLANADE PROJECT

PLANTING DETAILS, NOTES, & SCHEDULE

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 200
RALEIGH, NC 27609
NC FIRM LICENSE NO. F-0163

THE EAST GROUP
224 EVANS ST
GREENVILLE, NC 27834
NC LANDSCAPE FIRM LICENSE NO. C-0187

NORTH CAROLINA LANDSCAPE ARCHITECT SEAL 1840 K. KATHLEEN BURKE
02.13.25

Sheet Reference No.
CL501A

File: K:\01_Projects\Greenville, City\A0032\01 MAN OOS Town Com Bulkhead\dwg\2 Construction Plans\SHEETS\L3 Sheet Set\CL501CT_C-01_PLNT_Plotted: 2/13/2025 5:24 PM by: COLLEEN BANDLE; Saved: 2/13/2025 5:19 PM by: COLLEEN BANDLE

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.

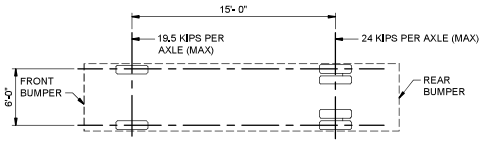
4. STEEL SHEET PILES SHALL CONSIST OF HEAVY GAUGE HOT-ROLLED SECTIONS WITH FULL INTERLOCKING SHEETS CONFORMING TO THE FOLLOWING PROPERTIES:
   A. STEEL SHEET PILES ..... ASTM A572, GRADE 60, COATED
   B. NZ-21 SHEET PILES OR APPROVED EQUAL:
      1. SECTION MODULUS ..... 38.69 CUBIC INCHES PER FOOT OF 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 UT, 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.

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.	Date	Description	Dwn.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

STRUCTURAL NOTES

Designed by: J. SWYERS | Date: 2025-02-07 | Rev. 0
Dwn by: VNM | Chk by: MAP | MBA Project No. 22315-02
Reviewed by: D. JACOBSON | Drawing Code:
Submitted by: MARK PIRELLO | Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. F-0105

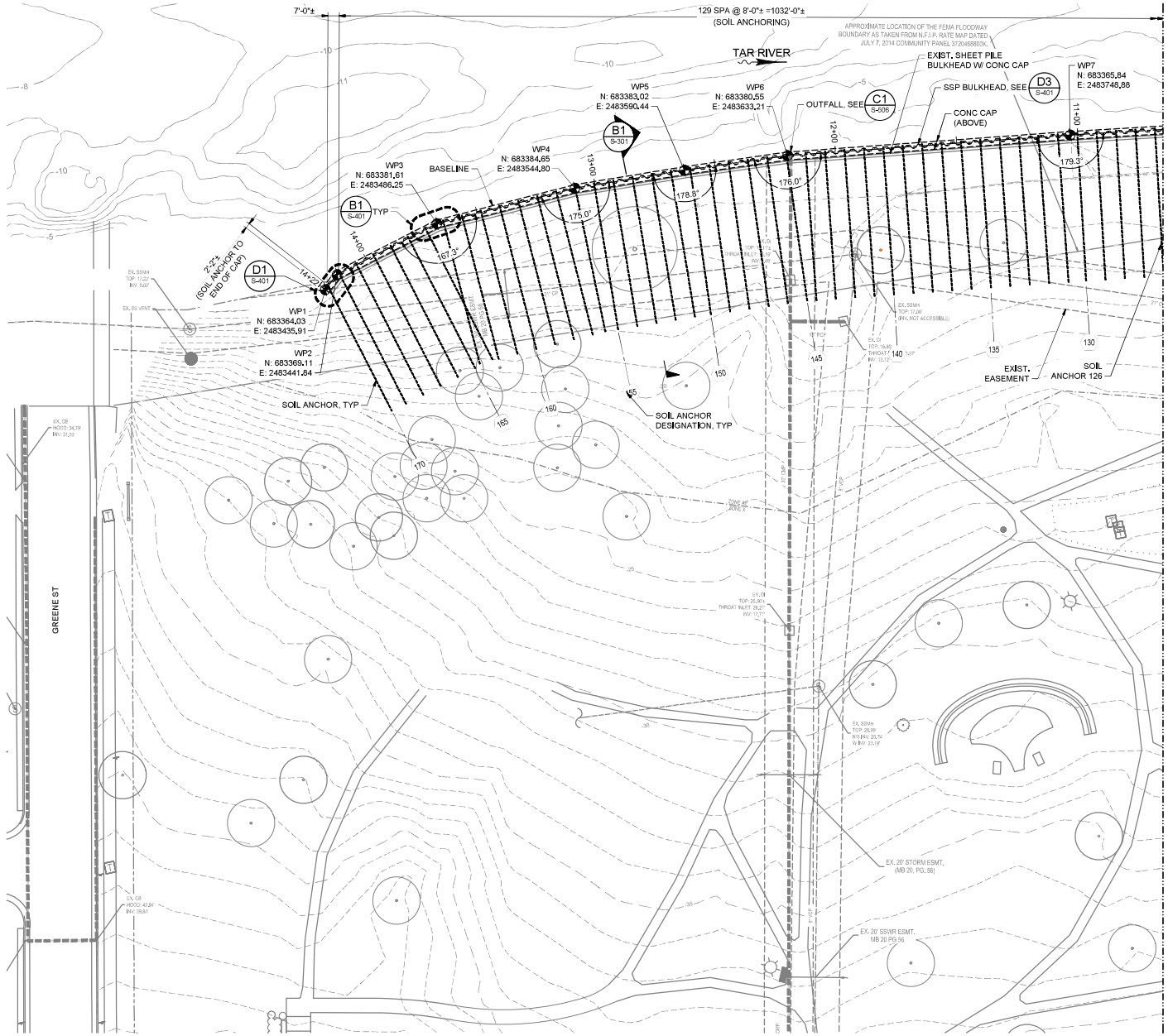
THE EAST GROUP
330 ELANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-1748
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL 02/21/2025

SEAL

Sheet Reference No.
S-001
INDEX: 64 OF 114

File: Q:\R\022\315-02\CD\CAD_Active_Greenville Town Common\27015\03S-001. Plotted: 2/18/2025 5:36 PM by MORGAN NEKOL. Saved: 2/14/2025 3:55 PM by MORGAN



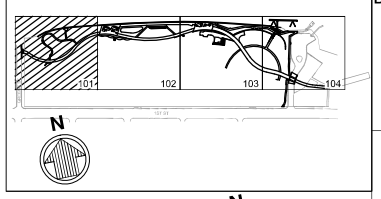
NOTES:

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

Rev.	Date	Description
3	2025-02-07	ISSUED FOR BID

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN
SHEET 1 OF 4
BASE BID

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRRELLO
Drawing Code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & michel
4700 FALLS OF NEUSE RD. SUITE 500
RALEIGH, NC 27609
919-341-8425
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-0748
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing

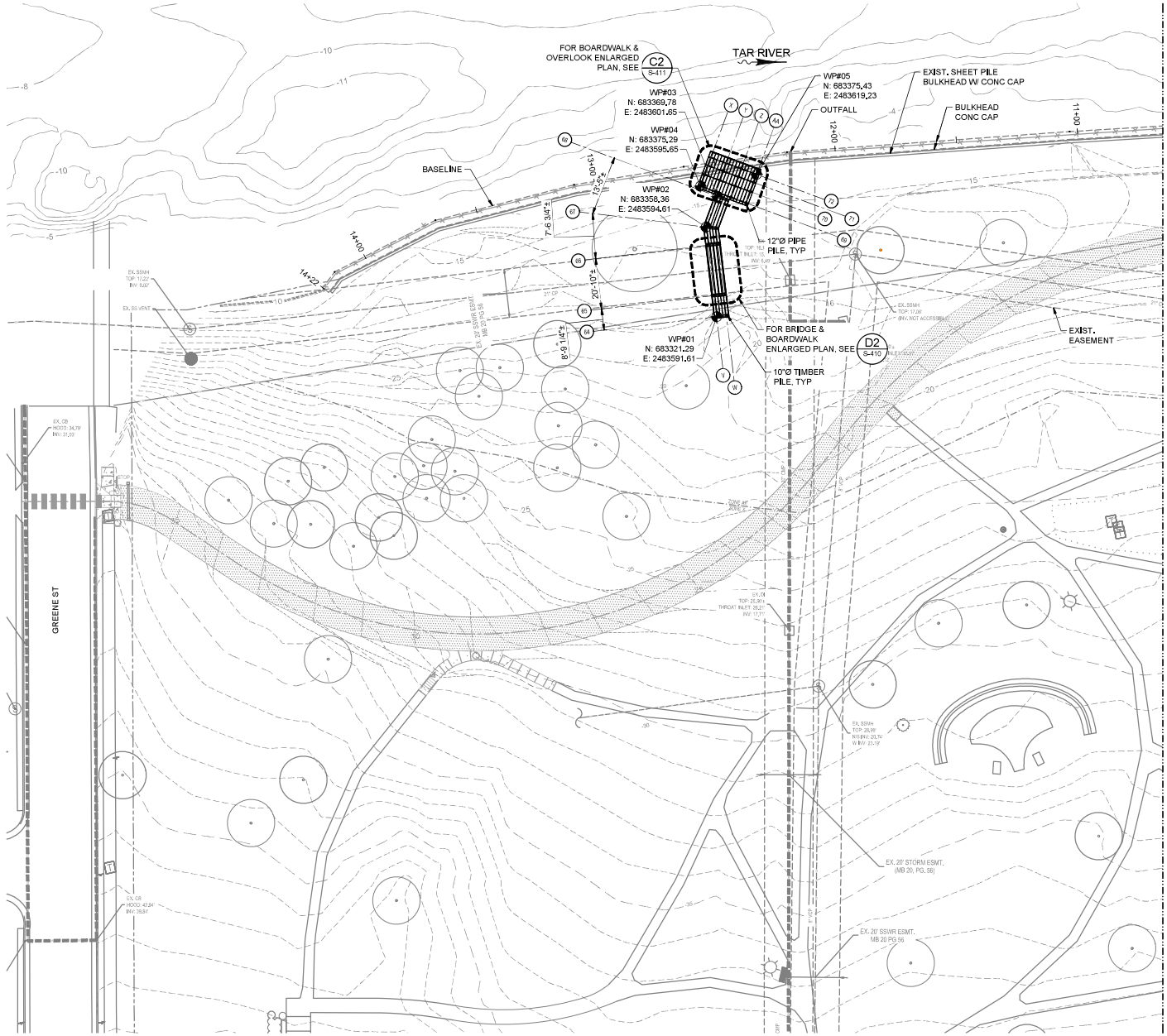
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER MARK A. PIRRELLO
02/21/2025
SEAL

SEAL

Sheet Reference No.
SB101
INDEX: 65 OF 114

File: Q:\R\022\315-02\CD\CAD\L Acheet_Greenville Town Common\221315\SB101 - Plotted: 2/18/2025 5:36 PM by MORGAN, NEVICA, Saved: 2/14/2025 3:59 PM by MMORGAN

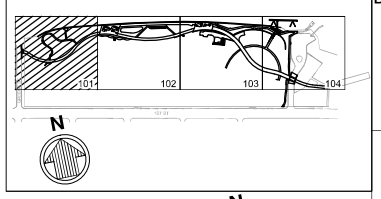
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN
SHEET 1 OF 4
ADDITIVE BID #3

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk'd by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427
330 EVANS ST
GREENVILLE, NC 27858
252-758-3404
Civil Engineering • Land Surveying • Transportation • Water Resources

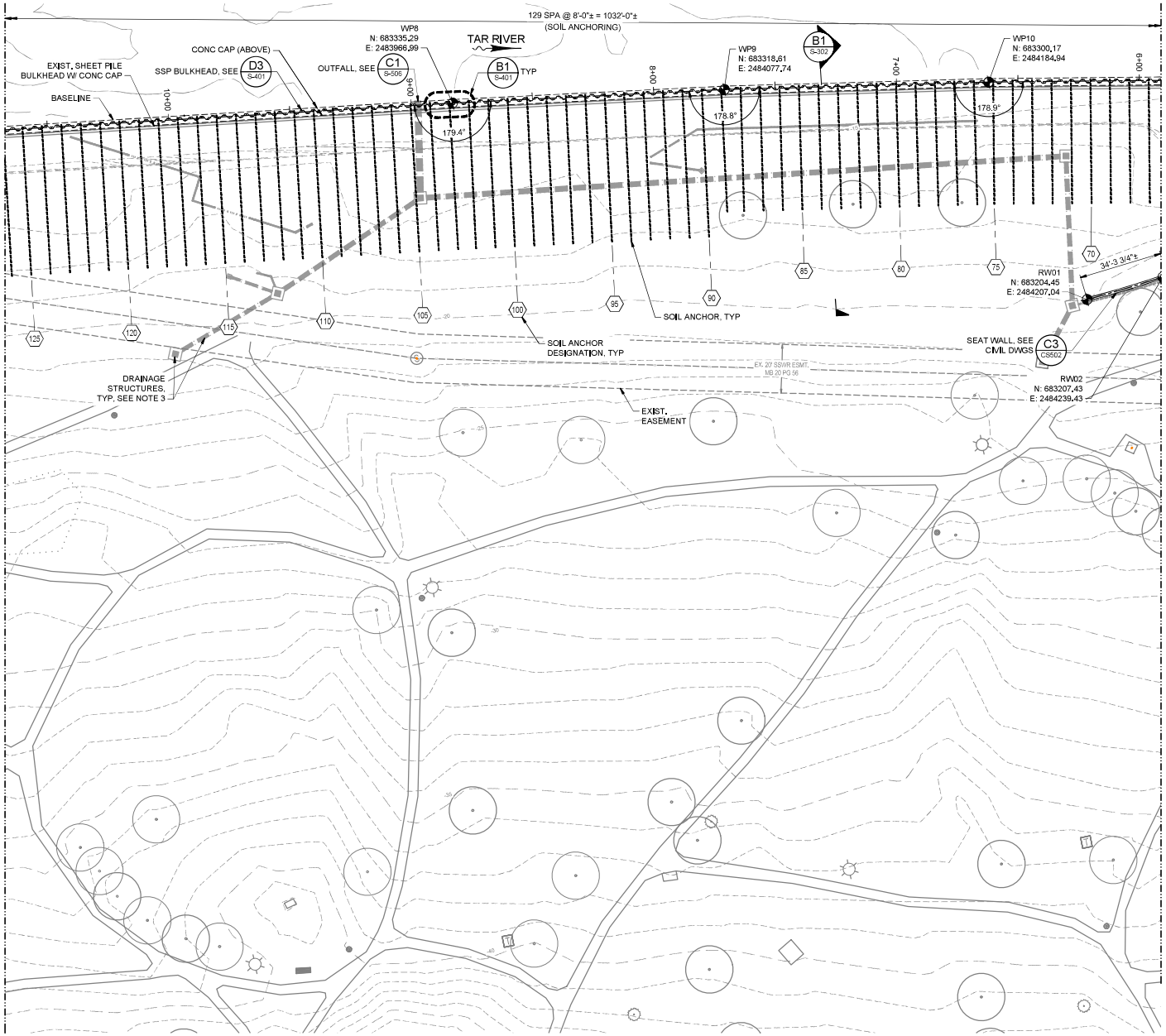
NORTH CAROLINA PROFESSIONAL SEAL 050771 ENGINEER JAMES H. BRYAN
02/21/2025
SEAL

SEAL

Sheet Reference No.
SB101A
INDEX: 65A OF 114

File: Q:\PAU\221315-02\00 CADD_Active_Greenville Town Common\221315\02\SB101A.dwg Plotted: 2/19/2025 5:37 PM by MORGAN, NEKO Saved: 2/14/2025 4:03 PM by MKORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



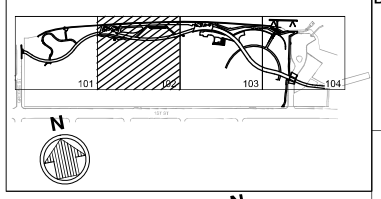
NOTES:

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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 2 OF 4 BASE BID

Date: 2025-02-07 Rev. 0
Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & Nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-8495
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-2124
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing

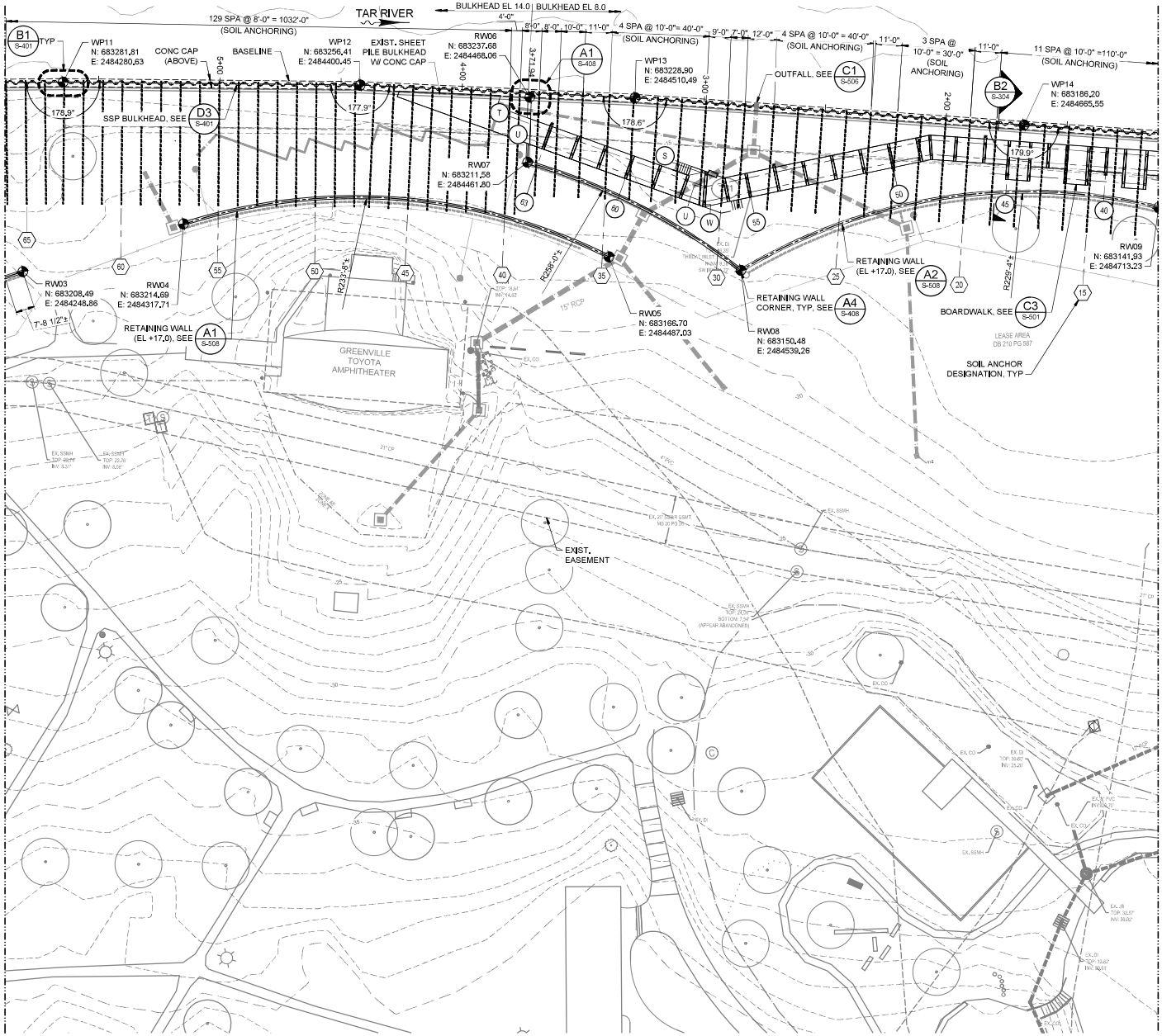
NORTH CAROLINA PROFESSIONAL SEAL 29077 ENGINEER JAMES HOWARD BRYANT
02/21/2025
SEAL

SEAL

Sheet Reference No.
SB102
INDEX: 66 OF 114

File: Q:\RAL\221315-02\00 CAD\01_Active_Greenville Town Common\221315\SB102. Plotted: 2/19/2025 5:37 PM by MORGAN, NEVICA. Saved: 2/14/2025 4:09 PM by MNICHOLS

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



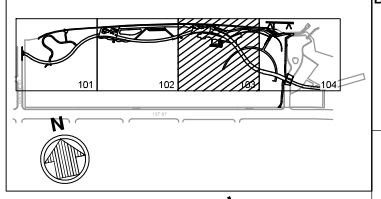
NOTES:

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
- 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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN SHEET 3 OF 4 BASE BID

Date: 2025-02-07 Rev. 0

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-341-4400
NC FIRM LICENSE NO. C-1105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-756-5746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing

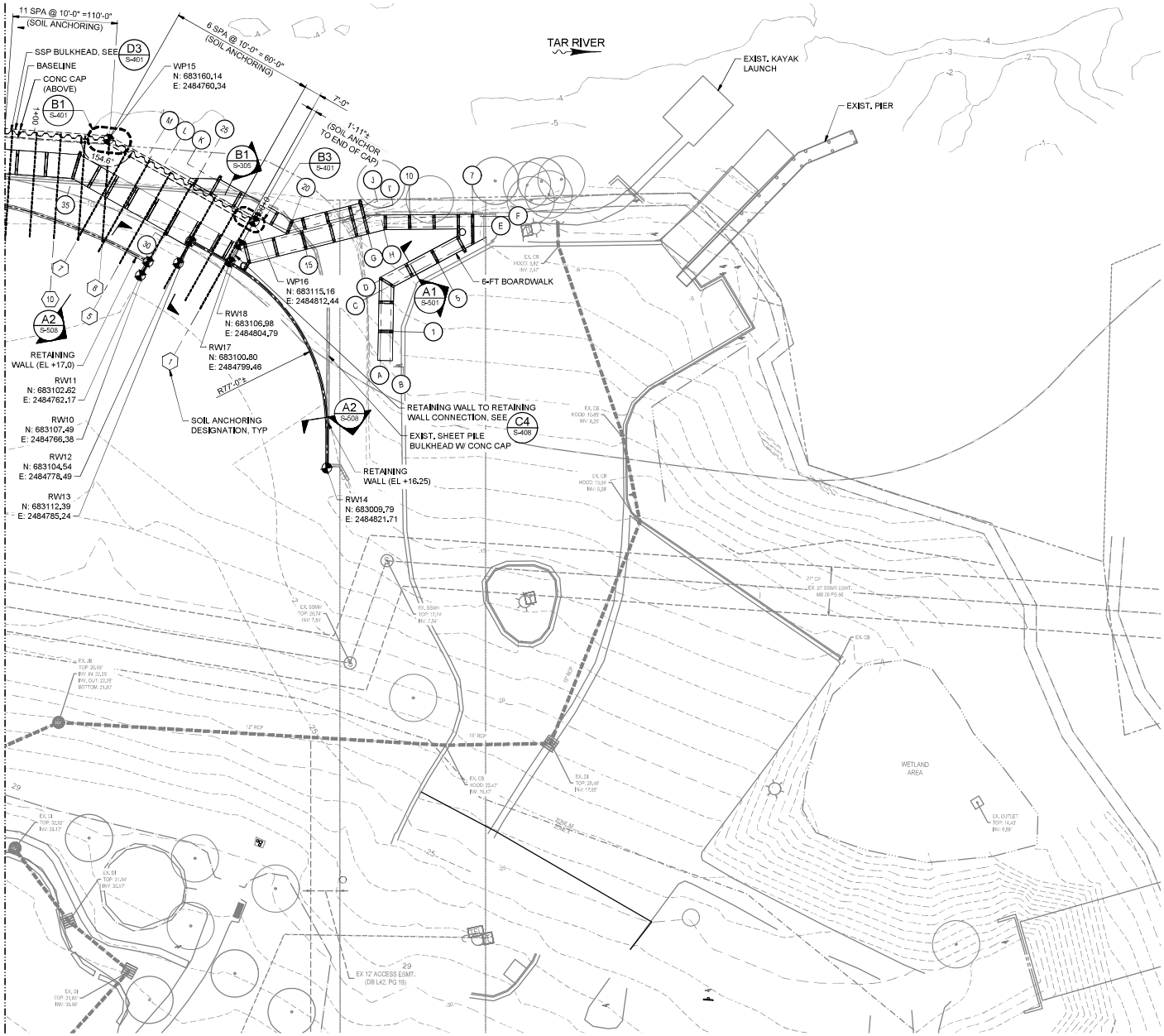
NORTH CAROLINA PROFESSIONAL SEAL 29077 ENGINEER MARK A. PIRRELLO
02/21/2025
SEAL

SEAL

Sheet Reference No.
SB103
INDEX: 67 OF 114

File: Q:\RAL\221315-02\00 CAD\L Actiel_Greenville Town Common\221315\SB103 Plotted: 2/19/2025 5:38 PM by MORGAN, NEVICE Saved: 2/14/2025 4:12 PM by NMORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



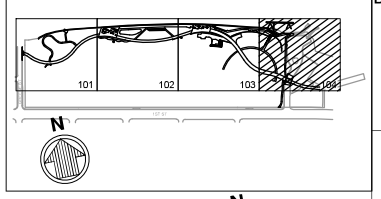
NOTES:

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
- 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	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE PLAN
SHEET 4 OF 4
BASE BID

Date: 2025-02-07 Rev. 0
Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRIELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (IF SHEET)

mafratt & michel
4700 FALLS OF NEUSE RD, SUITE 300
RALIGH, NC 27609
919-341-4450
NC FIRM LICENSE NO. F-0105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27835
252-758-1746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing

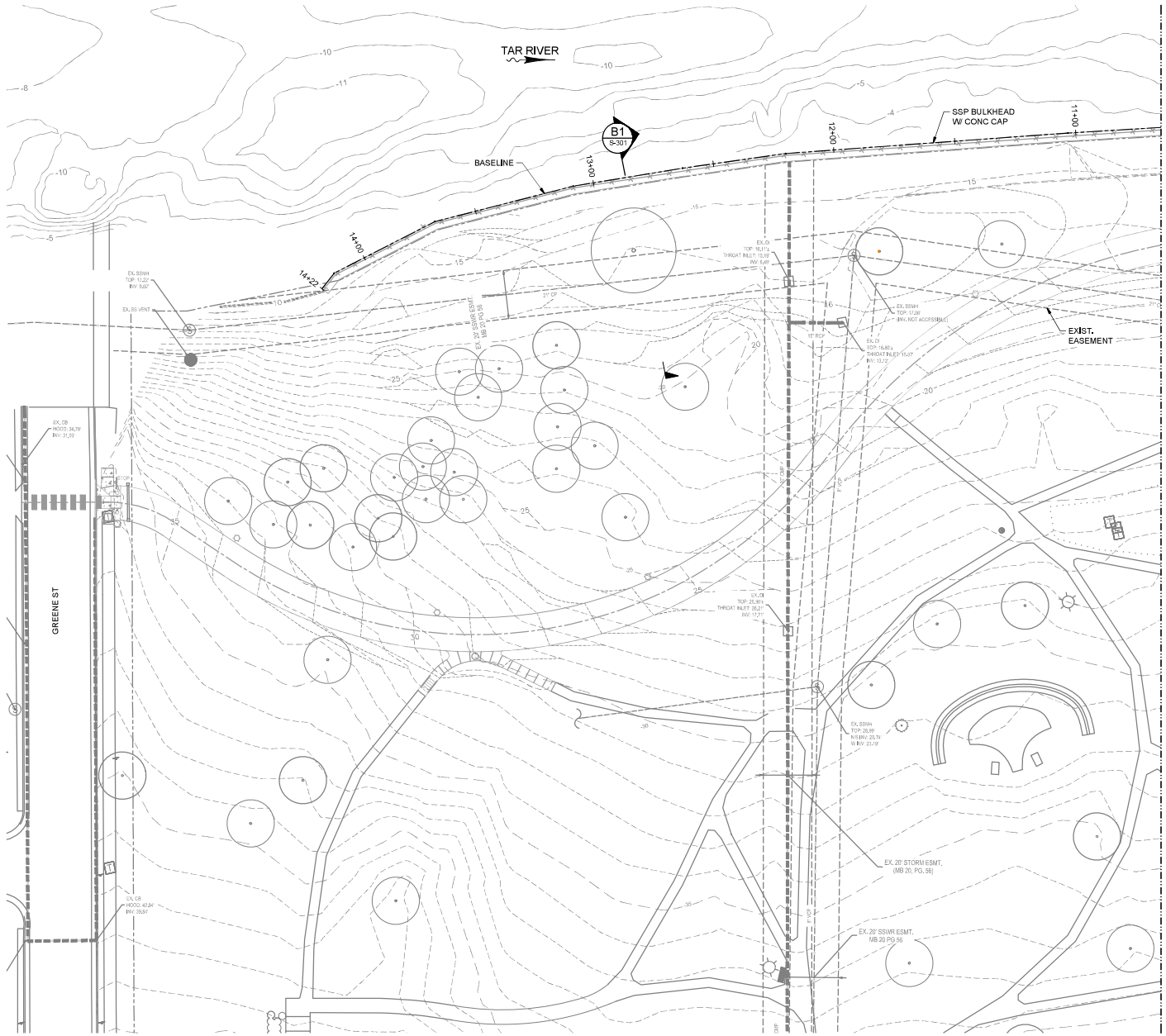
NORTH CAROLINA PROFESSIONAL SEAL 29077 ENGINEER JAMES HUNTER BRYANT
02/21/2025
SEAL

SEAL

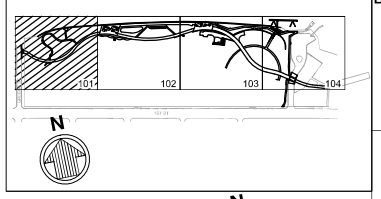
Sheet Reference No.
SB104
INDEX: 68 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

File: Q:\R\022\315-02\03 CAD\1. Active_Greenville Town Common\271315\SB104. Plotted: 2/19/2025 5:39 PM by MORGAN, NEVICL. Saved: 2/14/2025 4:58 PM by MICHCAN



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	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 1 OF 4 BASE BID

Date: 2025-02-07 Rev. 0

Designed by: J. SWYERS

Drawn by: VNM

Checked by: MAP

MBH Project No. 221315-02

Reviewed by: D. JACOBSON

Drawing code:

Submitted by: MARK PIRELLO MOFFATT & NICHOL

Drawing Scale: AS SHOWN

Plot scale: 1:1 (0 SHEET)

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

THE EARTH GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
230 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-756-3404
Civil Engineering • Land Surveying • Geotechnical Engineering • Construction Materials Testing

SEAL 02/21/2025

SEAL

Sheet Reference No.

ST101

INDEX: 69 OF 114

File: Q:\RALE\221315-02\00 CAD\L Activel_Greenville Town Common\221315\ST101 Plotted: 2/19/2025 5:40 PM by MORGAN, NEKOL Saved: 2/12/2025 12:29 PM by MORGAN, NEKOL

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

TAR RIVER

BOARDWALK OVERLOOK, SEE C2 S-411

B1 S-301

BASELINE

SSP BULKHEAD W/ CONC CAP

22'-0"

15'-0"

14'-2 1/2"

38'-0 1/4"

BRIDGE, SEE D2 S-410

6-FT WIDE TIMBER BOARDWALK, TYP. SEE A1 S-501

EXIST. EASEMENT

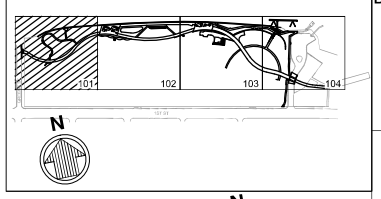
GREENE ST

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

EX. 20' SSWR ESMT. MB 20 PG 56

MATCH LINE - SEE SHEET ST102

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	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN
SHEET 1 OF 4
ADDITIVE BID #3

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk by: MAP
MBA Project No. 221315-02
Rev scale: 1:1 (0 SHEET)
Drawing scale: AS SHOWN
Drawing code:
Reviewed by: D. JACOBSON
Submitted by: MARK PIRRELLO MOFFATT & NICHOL

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

moffatt & nichol

THE EARTH GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427
330 EVANS ST
GREENVILLE, NC 27858
252-756-3746
GREENVILLE, NORTH CAROLINA

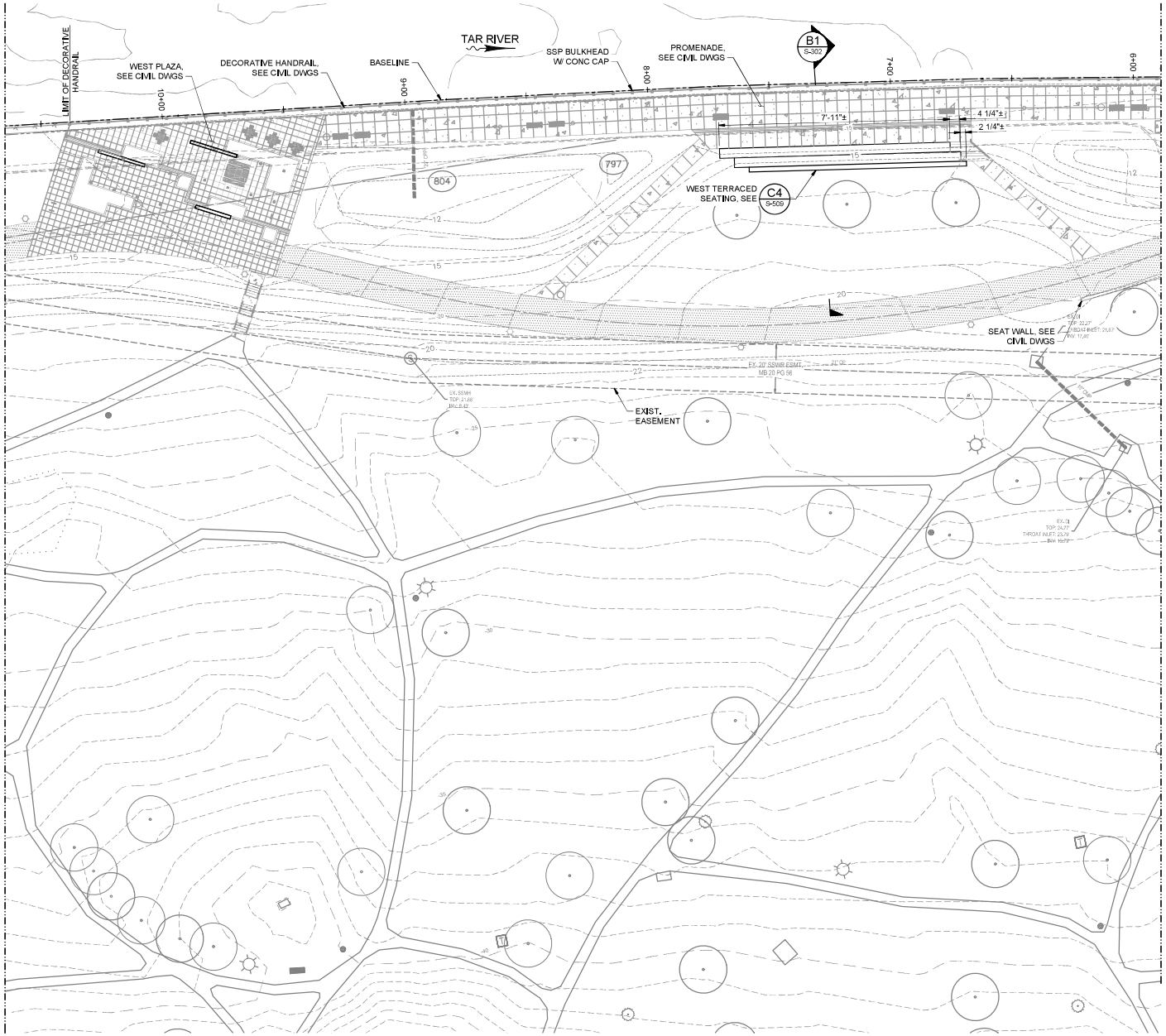
SEAL 06077 NORTH CAROLINA PROFESSIONAL SEAL ENGINEER
02/21/2025

SEAL

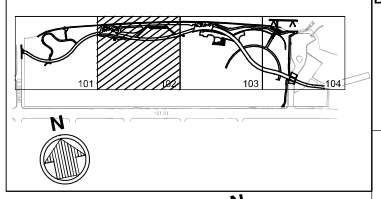
Sheet Reference No.
ST101A
INDEX: 69A OF 114

File: Q:\RALE\221315-02\00 CAD\01_Acitvel_Greenville Town Common\221315\ST101A. Plotted: 2/18/2025 5:40 PM by MORGAN, NEKOL. Saved: 2/12/2025 12:50 PM by NMORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 2 OF 4 BASE BID

Date: 2025-02-07 Rev. 0

Designed by: J. SWYERS
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK FIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD. SUITE 300
RALIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

THE EARTH GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing
330 EVANS ST
GREENVILLE, NC 27858
252-756-2746

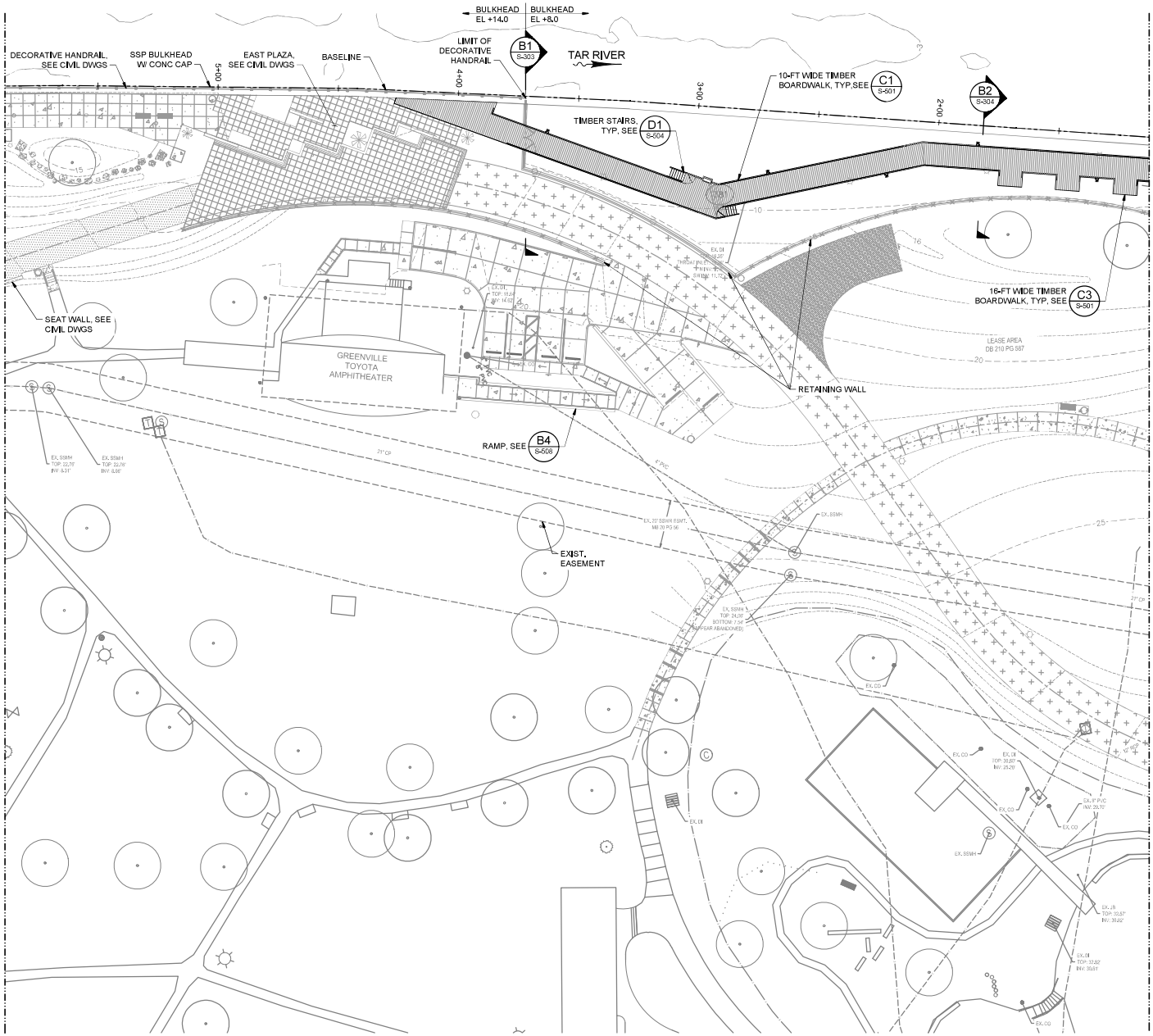
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025

SEAL

Sheet Reference No.
ST102
INDEX: 70 OF 114

File: Q:\RALE\221315-02\00 CAD\L Acitvel_Greenville Town Common\ST101\ST102. Plotted: 2/19/2025 5:41 PM by MORGAN, NEVIA. Saved: 2/14/2025 4:30 PM by MORGAN

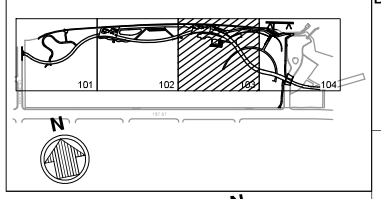
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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

Rev.	Date	Description	Drwn.
3	2025-02-07	ISSUED FOR BID	JLB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN SHEET 3 OF 4 BASE BID

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drwn by: VNM
Chk'd by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 VIA-IN-HER NC FIRM LICENSE NO. F-0105

mcfarlett & nichol

THE EARTH GROUP NC ENGINEERING FIRM LICENSE NO. C-0299 NC LANDSCAPE FIRM LICENSE NO. C-427

330 ELKINS ST GREENVILLE, NC 27834 252-758-3434

Submitted by: MARK PIRELLO MCFARLETT & NICHOL

SEAL 02/21/2025

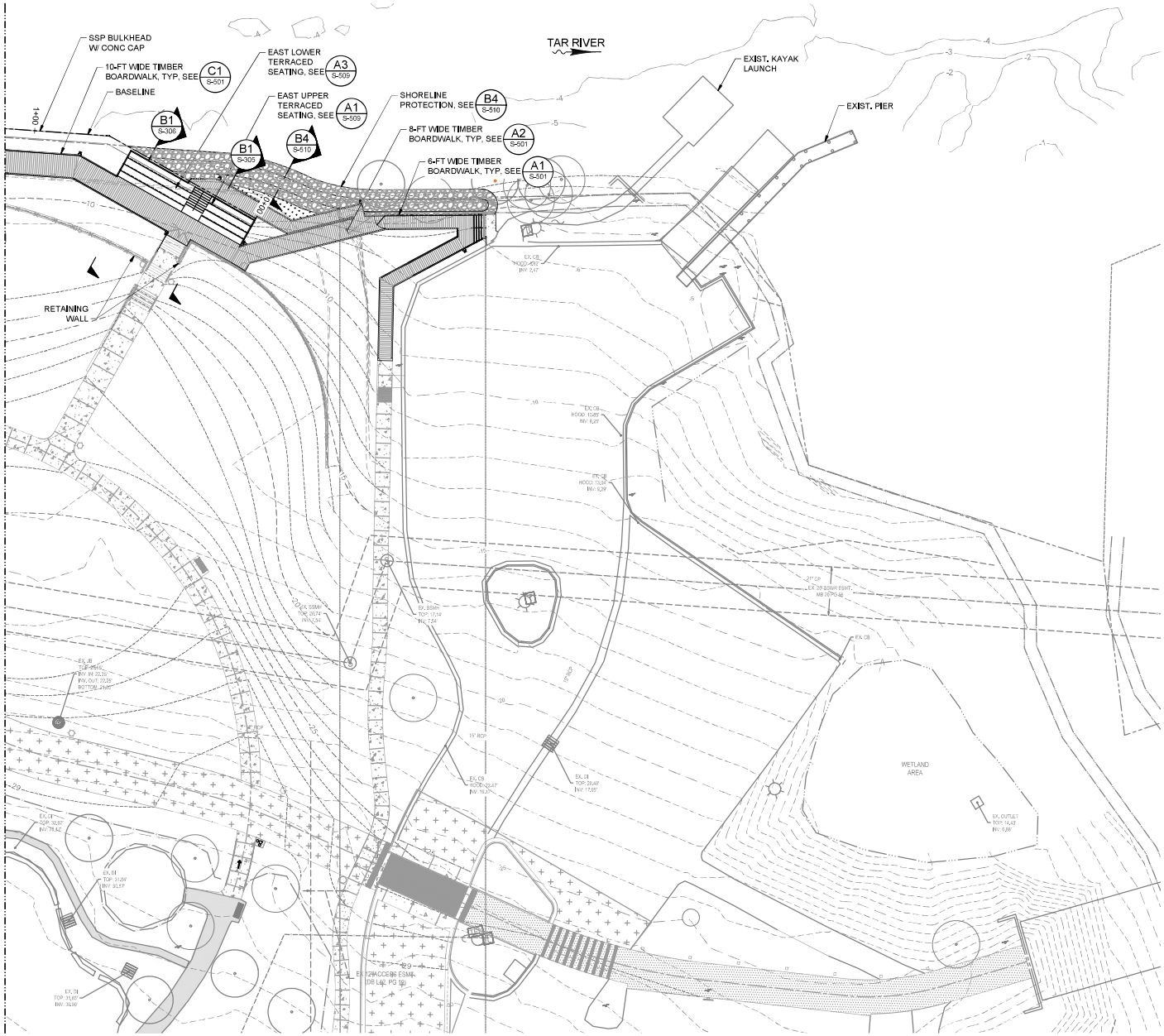
Sheet Reference No.

ST103

INDEX: 71 OF 114

File: Q:\RALE\221315-02\CD\CAD\Actiwit_Greenville Town Common\221315-02ST103.Plotted: 2/19/2025 5:42 PM by: MORGAN, NEVOL Saved: 2/12/2025 2:39 PM by: MORGAN

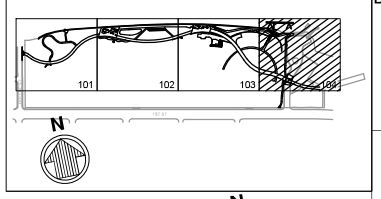
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	A-B

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DECK PLAN
SHEET 4 OF 4
BASE BID

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-756-3746
GREENVILLE ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing

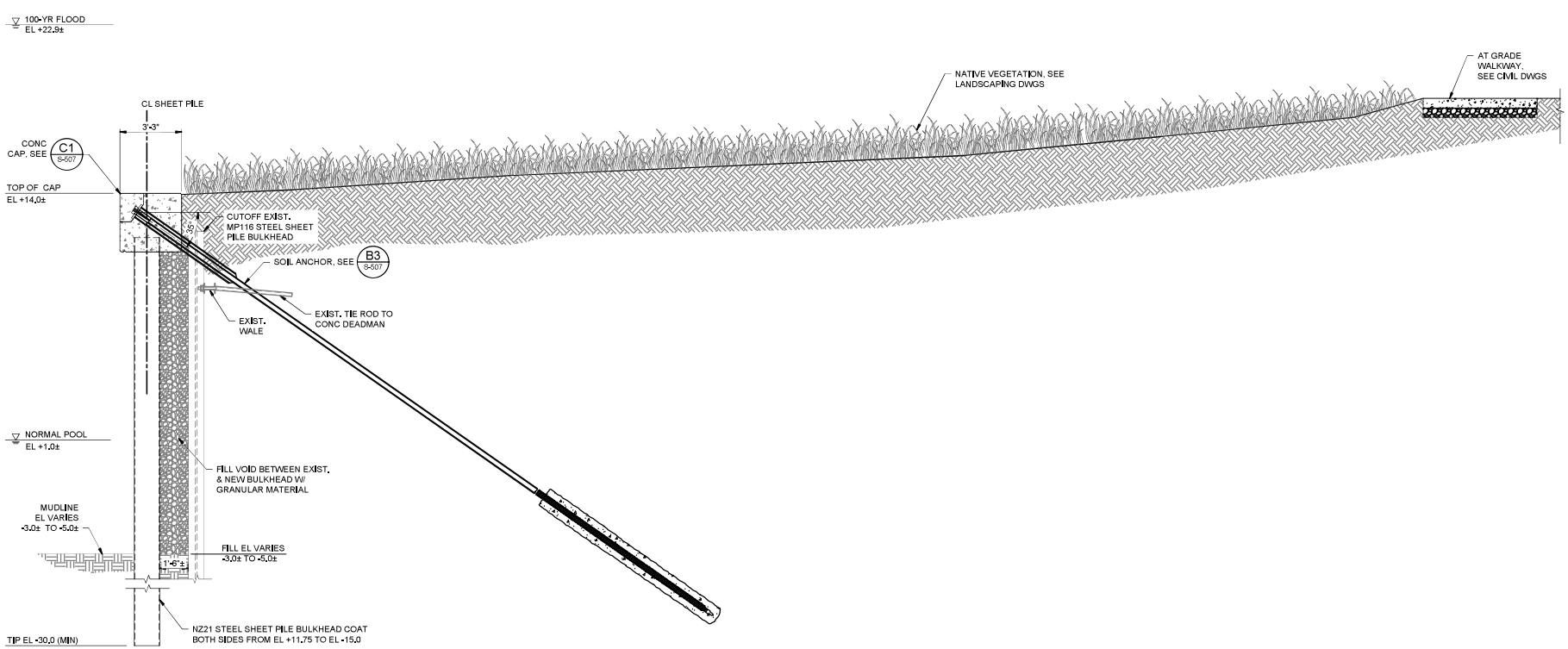
NORTH CAROLINA PROFESSIONAL SEAL 29077 ENGINEER MARK PIRELLO
02/21/2025
SEAL

SEAL

Sheet Reference No.
ST104
INDEX: 72 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

File: Q:\RAL\221315-02\03 CAD\1_Active_Greenville Town Common\221315\03ST104 Plotted: 2/19/2025 5:43 PM by MORGAN, NEVCA Saved: 2/12/2025 2:36 PM by MORGAN, NEVCA



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

No.	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 1 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

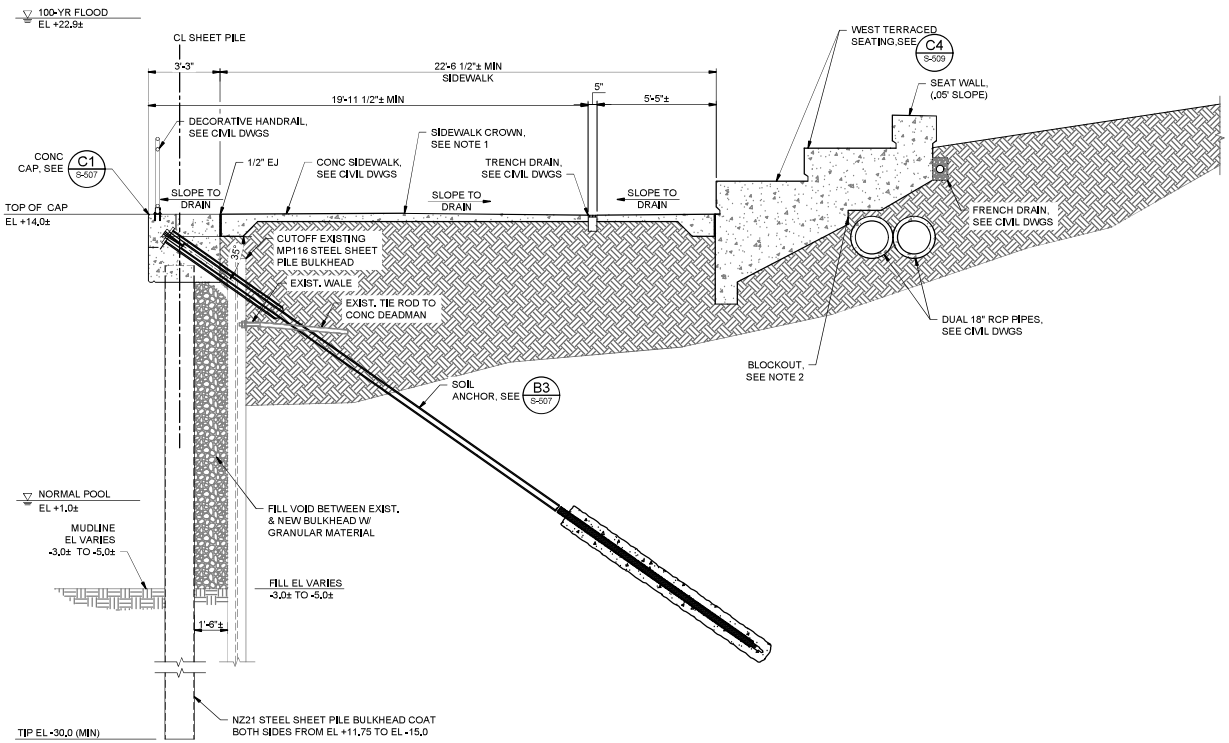
THE EAST GROUP
Civil Engineering • Land Planning • Surveying
330 EVANS ST
GREENVILLE, NC 27834
252-758-1746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

SEAL

Sheet Reference No.
S-301
INDEX: 73 OF 114

File: Q:\RALE\221315-02\CD\CAD\L Active_Greenville Town Common\221315\S-301 Plotted: 2/18/2025 5:47 PM by MORGAN NEKOL Saved: 2/14/2025 4:35 PM by MORGAN



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 — SECTION - CENTRAL PLAZA
ST102 — 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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 2 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 22315-S02
Reviewed by: D. JACOBSON
Drawing Code:
Drawing scale: AS SHOWN
Submitted by: MARK PIRELLO MOFFATT & NICHOL
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

THE EAST GROUP NC ENGINEERING FIRM LICENSE NO. C-0299 NC LANDSCAPE FIRM LICENSE NO. C-437

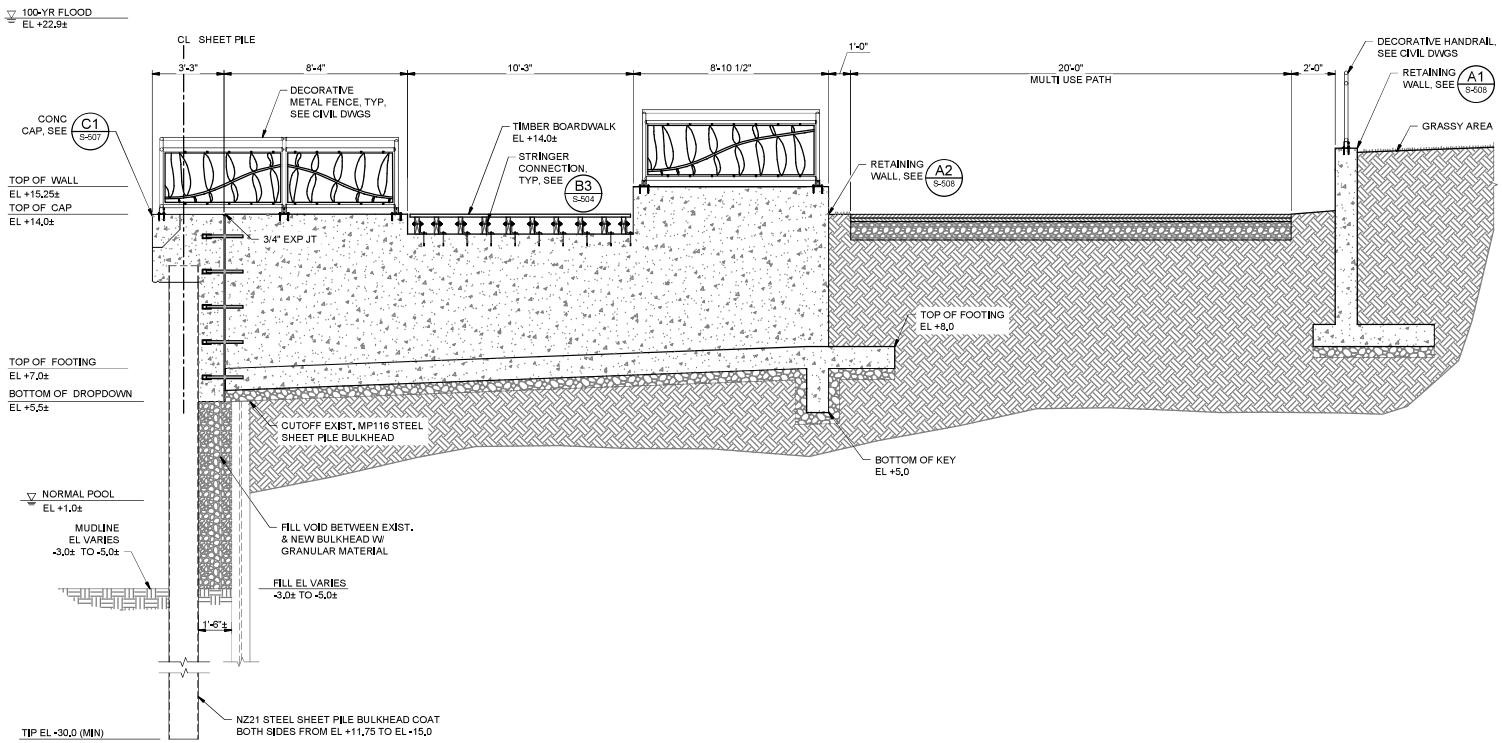
230 EVANS ST GREENVILLE, NC 27834 252-756-1740

SEAL 02/21/2025

SEAL

Sheet Reference No.
S-302
INDEX: 74 OF 114

File: Q:\RAL\22315-02\00 CAD\01_Active_Greenville Town Commons\27015\S-302 Plotted: 2/18/2025 5:44 PM by MORGAN NEKOL Saved: 2/14/2025 4:30 PM by MORGAN



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION
SHEET 3 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

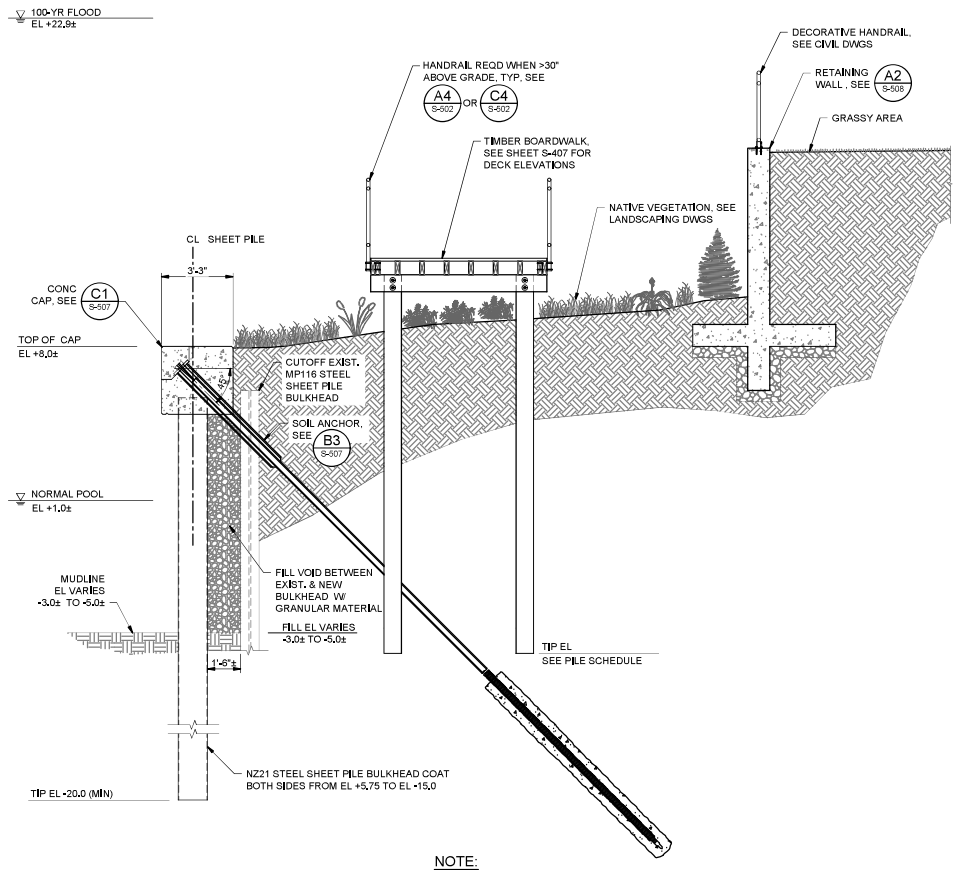
THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

Drawn by: MARK FIRELLO
Checked by: MOFFATT & NICHOL

SEAL
02/21/2025

Sheet Reference No.
S-303
INDEX: 75 OF 114

File: Q:\RALE\2715-02\CD\CAD\L Acheel_Greenville Town Common\S\701\S-303 Plotted: 2/18/2025 5:44 PM by MORGAN NEKOL Saved: 2/14/2025 4:37 PM by MORGAN



NOTE:

REFER TO CIVIL DRAWINGS FOR GRADING & TOP OF RETAINING WALL ELEVATIONS.

B2 SB103 ST103 **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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 4 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
MBA Project No. 221315-02
Drawn by: VNM
Chk'd by: MAP
Reviewed by: D. JACOBSON
Drawing Code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)
Submitted by: MARK PIRELLO MOFFATT & NICHOL

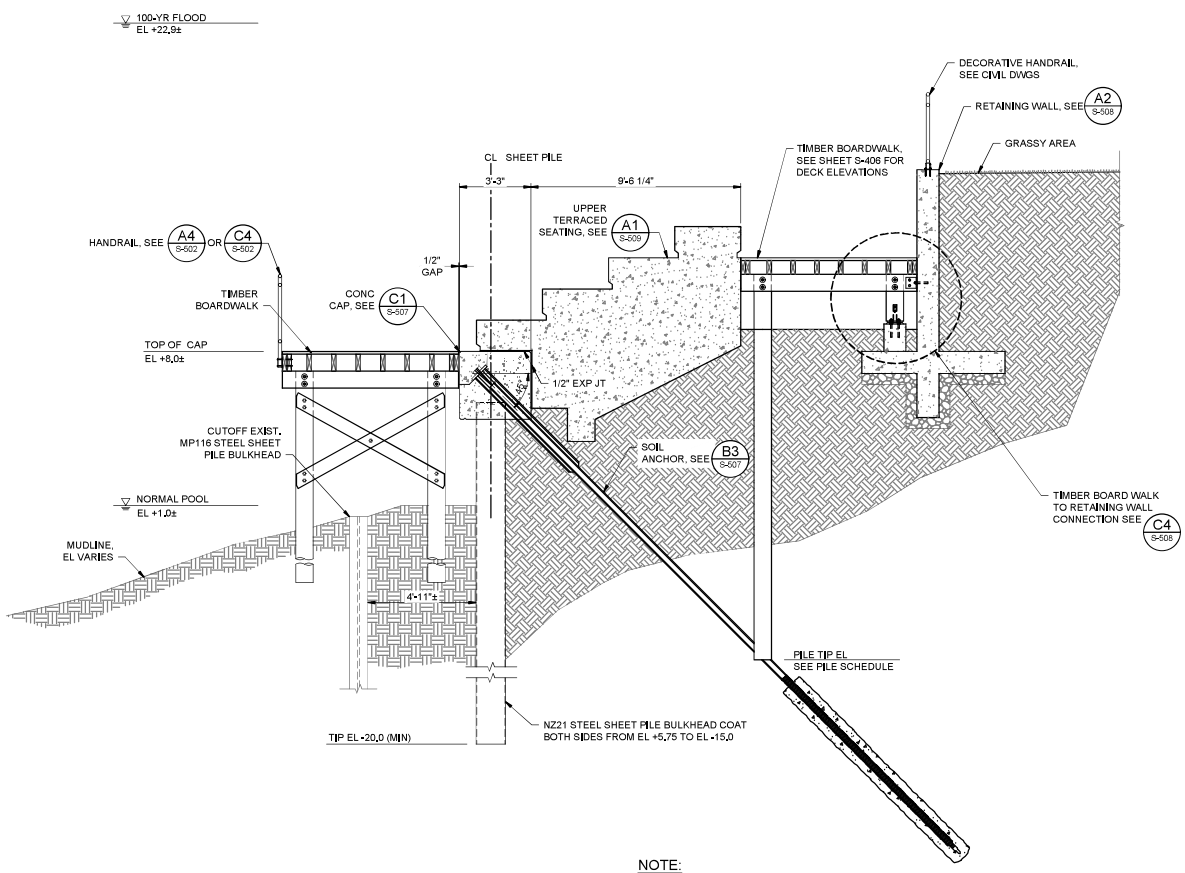
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Civil Engineering • Land Planning • Surveying
330 EVANS ST
GREENVILLE, NC 27858
252-758-5746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

Sheet Reference No.
S-304
INDEX: 76 OF 114

File: Q:\R\022\315-02\00 CAD\01_Active_Greenville Town Common\S\01\S-304 Plotted: 2/18/2025 5:45 PM by MORGAN NEKOL Saved: 2/14/2025 4:42 PM by MORGAN



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

No.	Date	Description	Rev.
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 5 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

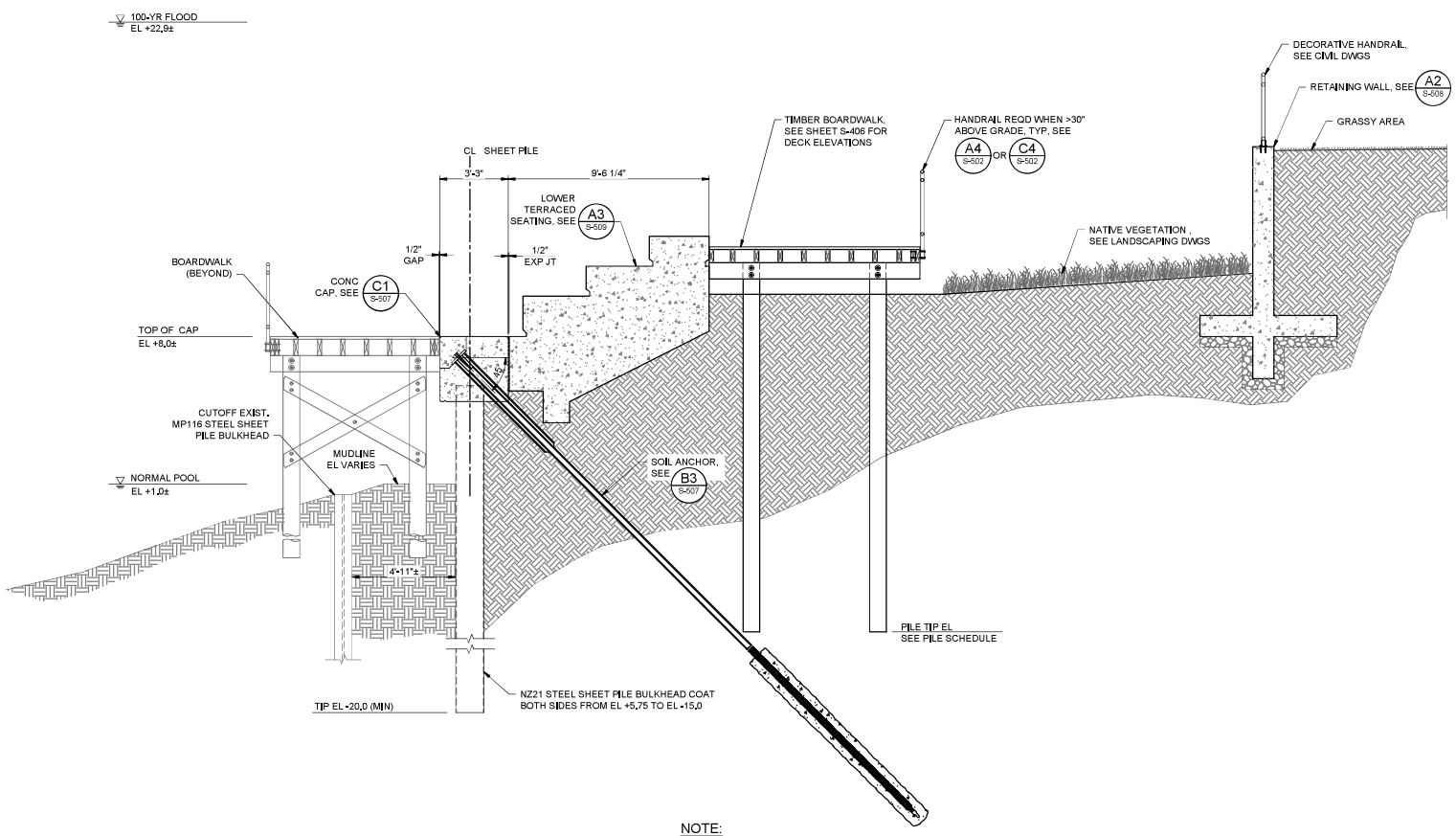
THE EAST GROUP
Surveying • Mapping • Geomatics
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
330 EVANS ST
GREENVILLE, NC 27858
252-756-2746

SEAL
02/21/2025

Sheet Reference No.
S-305
INDEX: 77 OF 114

File: Q:\RALEIGH\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02S-305 Plotted: 2/18/2025 5:45 PM by MORGAN NEKOL Saved: 2/14/2025 4:39 PM by MORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Rev.
3	2025-02-21	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TYPICAL SECTION SHEET 6 OF 6

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO 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. C-0105

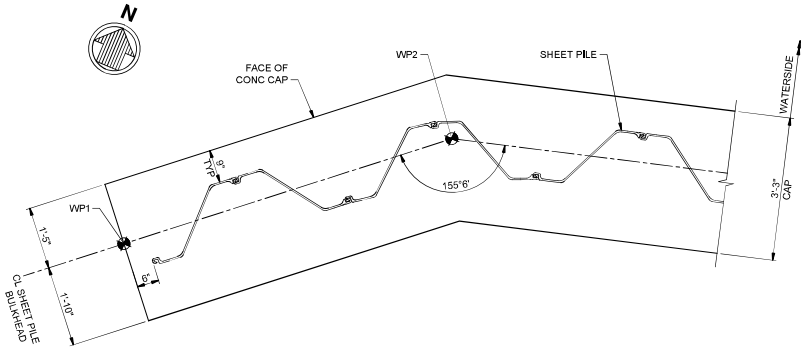
THE EAST GROUP NC ENGINEERING FIRM LICENSE NO. C-0299 NC LANDSCAPE FIRM LICENSE NO. C-437 330 EVANS ST GREENVILLE, NC 27858 252-758-2164

NORTH CAROLINA PROFESSIONAL SEAL 080774 ENGINEER
02/21/2025
SEAL

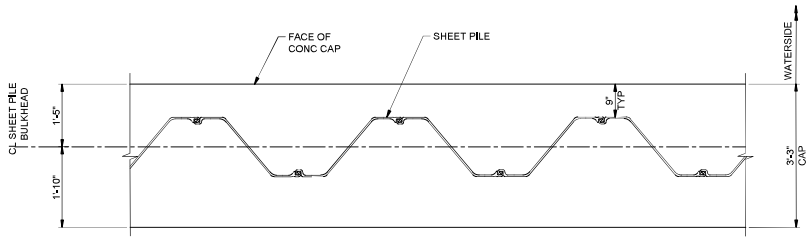
SEAL

Sheet Reference No.
S-306
INDEX: 78 OF 114

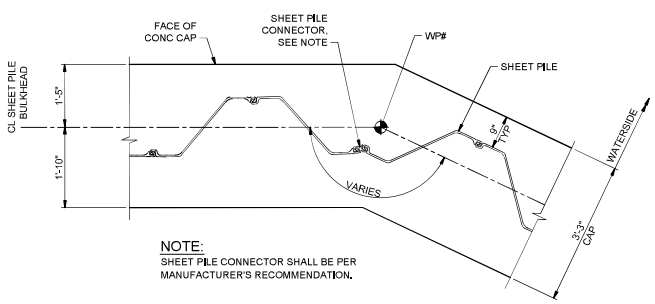
File: Q:\R\022\315-02\00 CAD\01_Active_Greenville Town Common\S\T01\S-306.dwg Plotted: 2/18/2025 5:40 PM by MORGAN NEKOL Saved: 2/14/2025 4:40 PM by MORGAN



D1 SB101 WEST END CONNECTION
SCALE: 3/4"=1'-0"

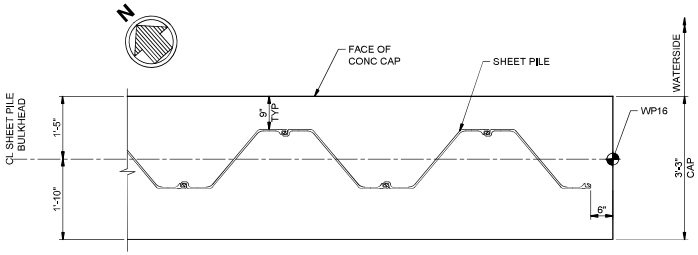


D3 SB101 TYPICAL SECTION
SCALE: 3/4"=1'-0"
SB102, SB103, SB104



NOTE:
SHEET PILE CONNECTOR SHALL BE PER MANUFACTURER'S RECOMMENDATION.

B1 SB101 BULKHEAD BEND
SCALE: 3/4"=1'-0"
SB102, SB103, SB104



B3 SB104 EAST END CONNECTION
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

Date	Description	Rev.
2025-02-07	ISSUED FOR BID	0

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ENLARGED BULKHEAD CONNECTIONS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Drawing Scale: AS SHOWN
Plot Scale: 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-8425
NC FIRM LICENSE NO. F-0105

mattatt & michel

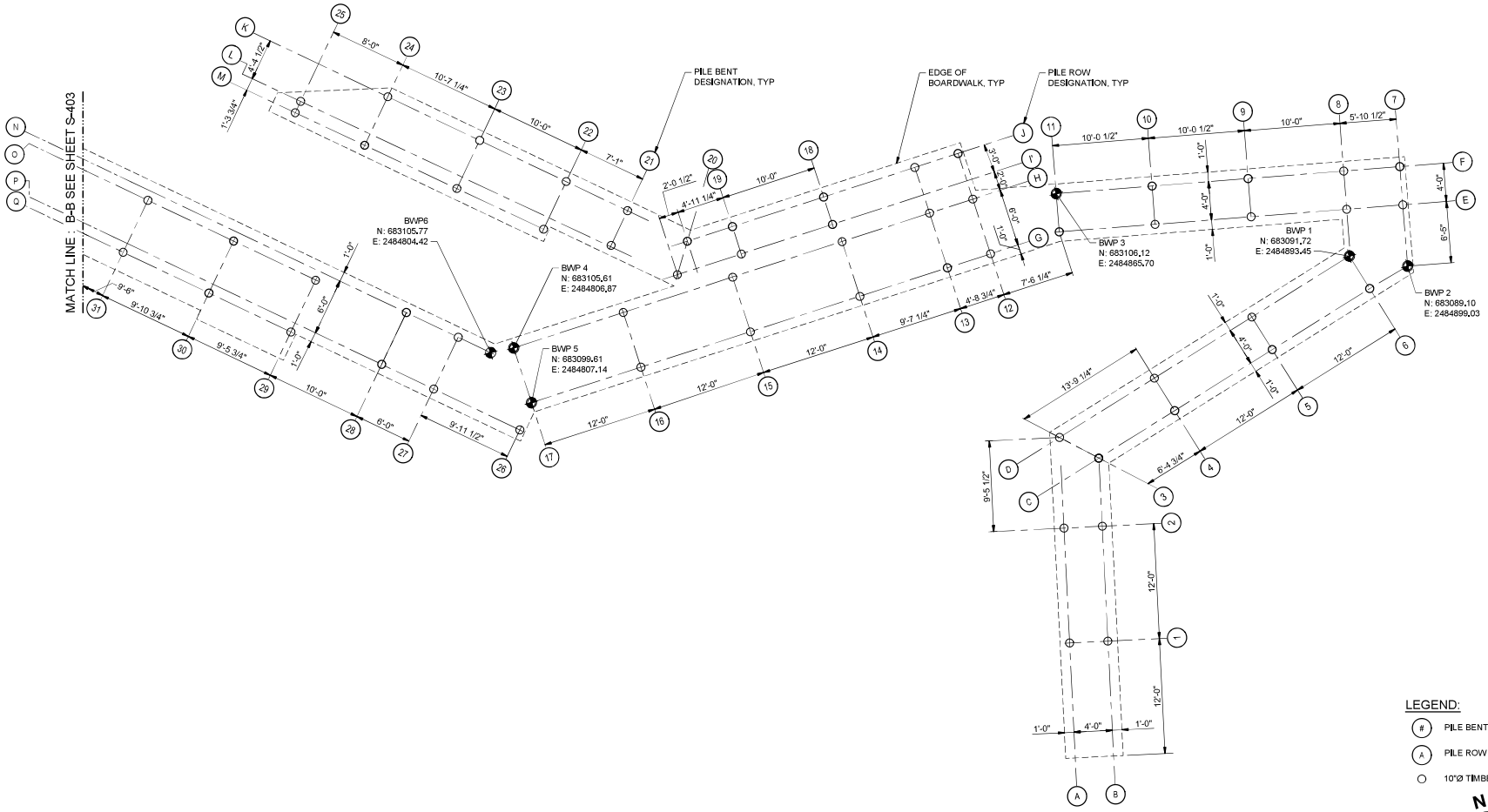
THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437
334 EVANS ST
GREENVILLE, NC 27834
252-758-1744
Civil Engineering • Land Surveying • Transportation Planning

Submitted by: MARK PIRELLO
MOFFATT & NICHOL

SEAL
02/21/2025

Sheet Reference No.
S-401
INDEX: 79 OF 114

File: Q:\RALEIGH\221315-02\CD\CAD\Actiel_Greenville Town Commons\221315-02S-401 Plotted: 2/19/2025 5:47 PM by MORGAN NEKOL Saved: 2/12/2025 2:20 PM by MORGAN



A1 SB103 ENLARGED PILE PLAN
SB104 SCALE: 3/16"=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	Rev.
3	ISSUED FOR BID	2025-02-07	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED PILE PLAN SHEET 1 OF 2

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

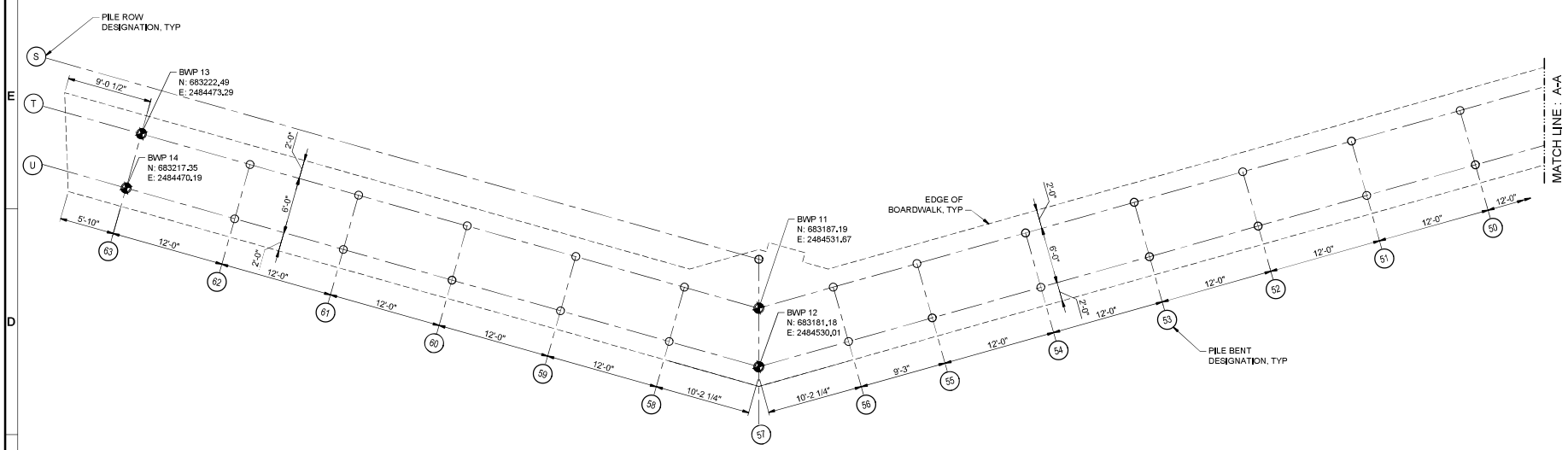
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-1205

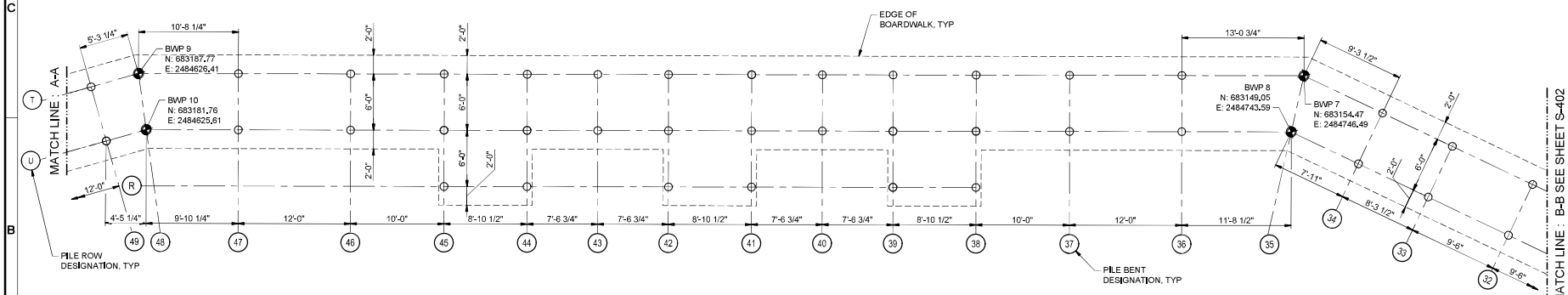
THE EAST GROUP
330 ELKANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

Sheet Reference No.
S-402
INDEX: 80 OF 114

File: Q:\RALE\221315-02\30 CAD\01_Active_Greenville Town Common\221315-02_Plotted: 2/19/2025 5:47 PM by MORGAN NEKOL, Saved: 2/12/2025 6:57 PM by MORGAN





A1 SB103 ENLARGED PILE PLAN
SB104
SCALE: 3/16"=1'-0"

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"

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Drwn.
0	2025-02-07	ISSUED FOR BID	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED PILE PLAN SHEET 2 OF 2

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drwn by: VNM
Chk'd by: MAP
MBH Project No. 323315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Drawing Scale: A3 SHOWN
Plot scale: 1:1 (0 SHEET)

mcfarlett & michel
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-8495
NC FIRM LICENSE NO. F-0105

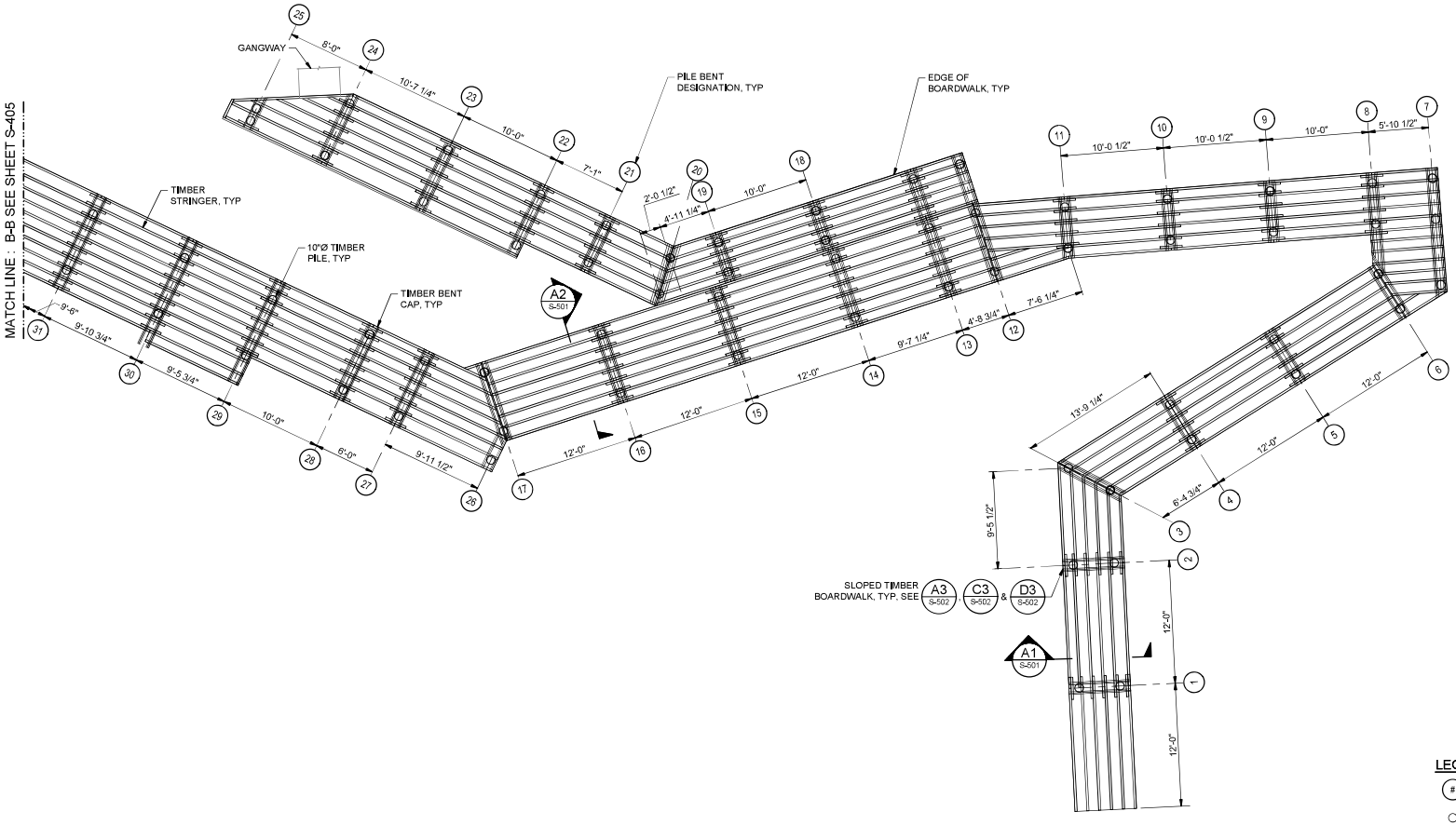
THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 28077 ENGINEER MARK A. PIRELLO
02/21/2025
SEAL

SEAL

Sheet Reference No.
S-403
INDEX: 81 OF 114

File: Q:\RALE\2315-02\00 CAD\01_Active_Greenville Town Common\2315\02S-403 Plotted: 2/19/2025 5:47 PM by MORGAN NEKOL Saved: 2/12/2025 7:03 PM by MORGAN



A1 ST103 ST104 ENLARGED FRAMING PLAN
SCALE: 3/16"=1'-0"

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED FRAMING PLAN SHEET 1 OF 2

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Checking code:
Submitted by: MARK P. RIBELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mafratt & michel
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-8425
NC FIRM LICENSE NO. F-0105

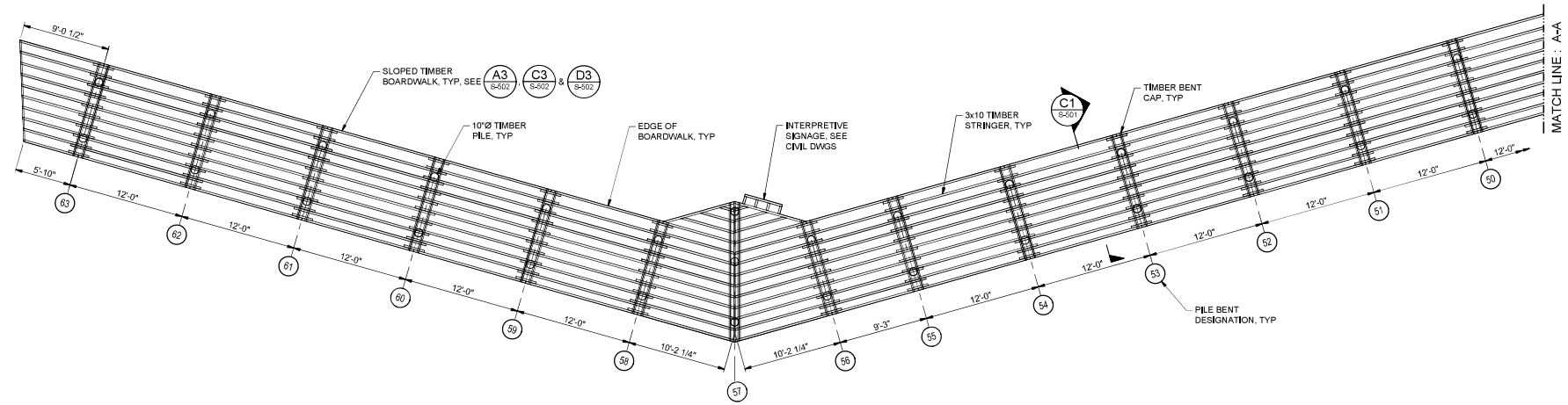
THE EAST GROUP
330 ELKINS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Surveying • Land Development

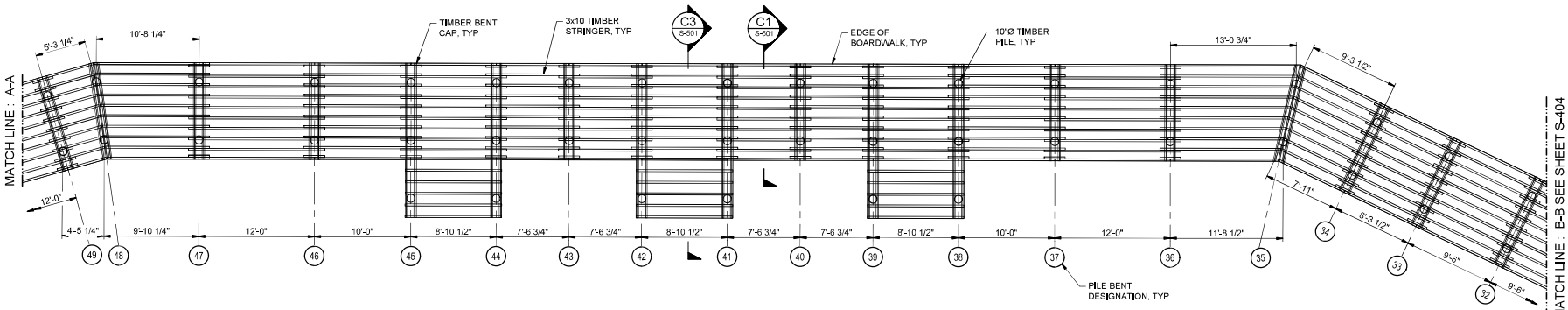
NORTH CAROLINA PROFESSIONAL SEAL 28077 ENGINEER
02/21/2025
SEAL

SEAL

Sheet Reference No.
S-404
INDEX: 82 OF 114

File: Q:\RALE\221315-02\3D CAD\L Actiel_Greenville Town Common\221315-02S-404 Plotted: 2/19/2025 5:46 PM by MORGAN NEKOL Saved: 2/19/2025 4:59 PM by MORGAN NEKOL





LEGEND:

- (#) PILE BENT DESIGNATION
- ○ 10"Ø TIMBER PILE

N

8'-0" 0'-0" 4'-0" 8'-0"
SCALE: 3/16"=1'-0"

A1 ST103 **ENLARGED FRAMING PLAN**
SCALE: 3/16"=1'-0"
ST104, S-305, S-306

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

Greenville NORTH CAROLINA

Rev.	Date	Description	Drawn
3	2025-02-07	ISSUED FOR BID	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED FRAMING PLAN SHEET 2 OF 2

Designed by: J. SWYERS
Drawn by: VNM
Reviewed by: D. JACOBSON
Submitted by: MARK FERRELLO
Date: 2025-02-07
MBA Project No. 221315-02
Checked by: MAP
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)
Rev. 0

mafratt & Michel
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
(919) 781-4626
NC FIRM LICENSE NO. F-0105

THE EASTGROUP
334 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-3456
NC ENGINEERING FIRM LICENSE NO. C-0290
NC LANDSCAPE FIRM LICENSE NO. C-417

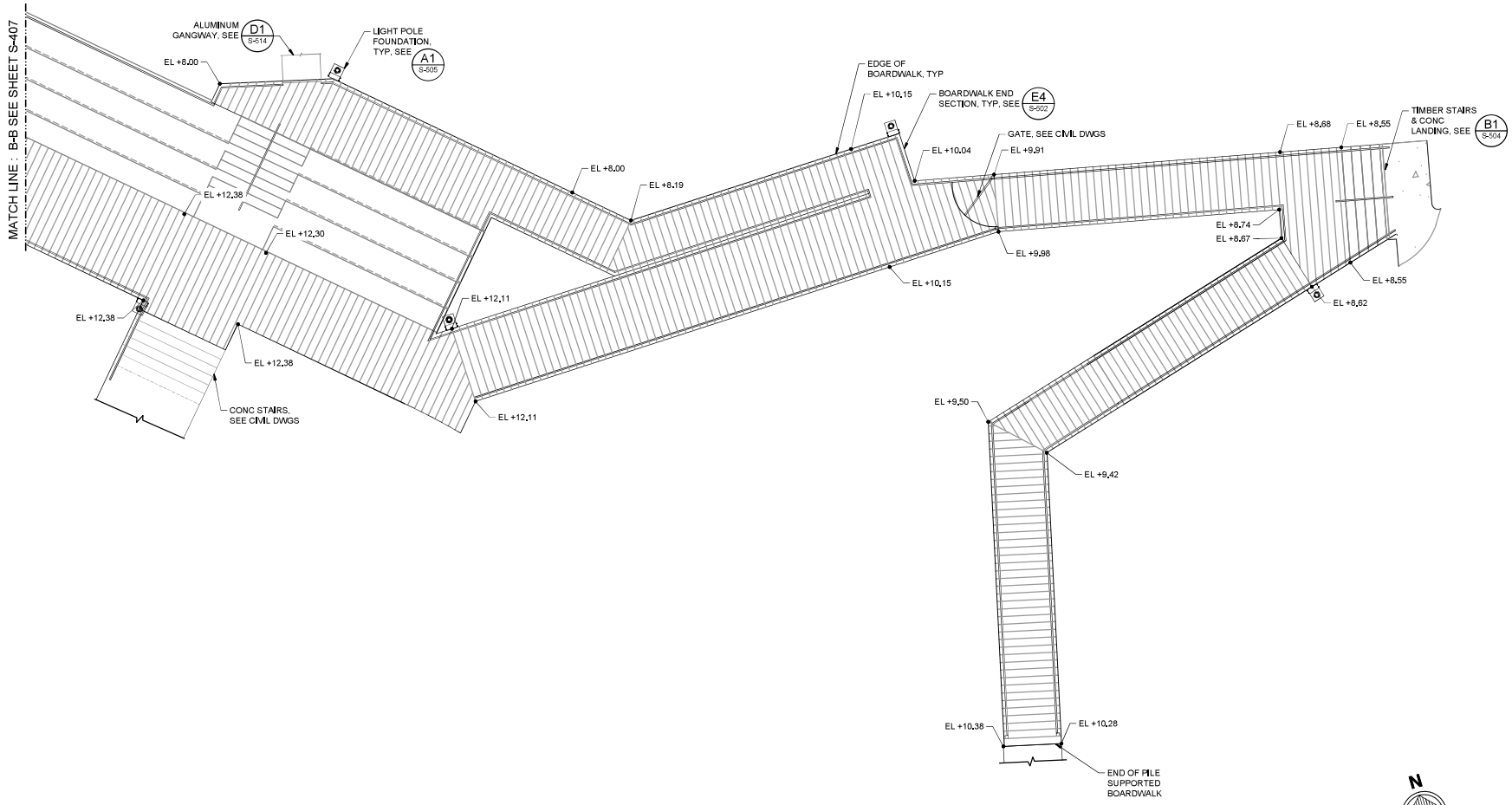
SEAL 29077 NORTH CAROLINA PROFESSIONAL ENGINEER
02/21/2025

SEAL

Sheet Reference No.
S-405
INDEX: 83 OF 114

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

File: Q:\RAL\221315-02\00 CAD\01_Active_Greenville Town Commons\221315\02S-405 Plotted: 2/19/2025 5:40 PM by MORGAN NEKOL Saved: 2/19/2025 4:57 PM by MORGAN



A1 ST103 ENLARGED DECK PLAN
ST104
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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED DECK PLAN SHEET 1 OF 2

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 22131-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

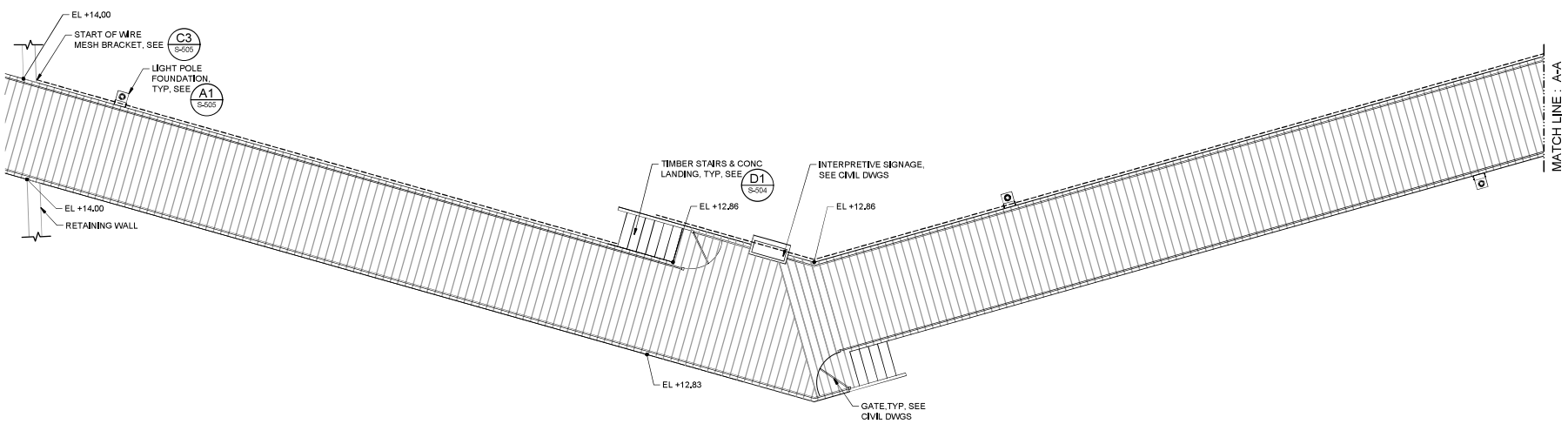
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

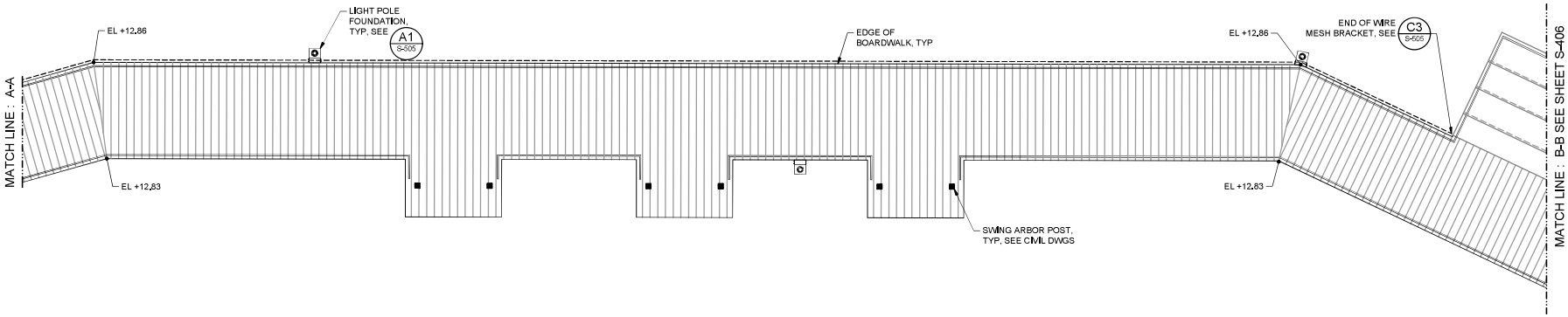
THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
Civil Engineering • Land Development • Surveying
330 EVANS ST
GREENVILLE, NC 27858
252-756-3746

SEAL
02/21/2025

Sheet Reference No.
S-406
INDEX: 84 OF 114

File: Q:\RALE\2131\2-02\0 CAD\01_Active_Greenville Town Common\2131\02\S-406 Plotted: 2/18/2025 5:40 PM by MORGAN NEKOL, Saved: 2/18/2025 5:07 PM by MORGAN





A1 ST103 ENLARGED DECK PLAN
SCALE: 3/16"=1'-0"
ST104, S-304

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	J.S

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BOARDWALK ENLARGED DECK PLAN SHEET 2 OF 2

Designed by: J. SAWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK FIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

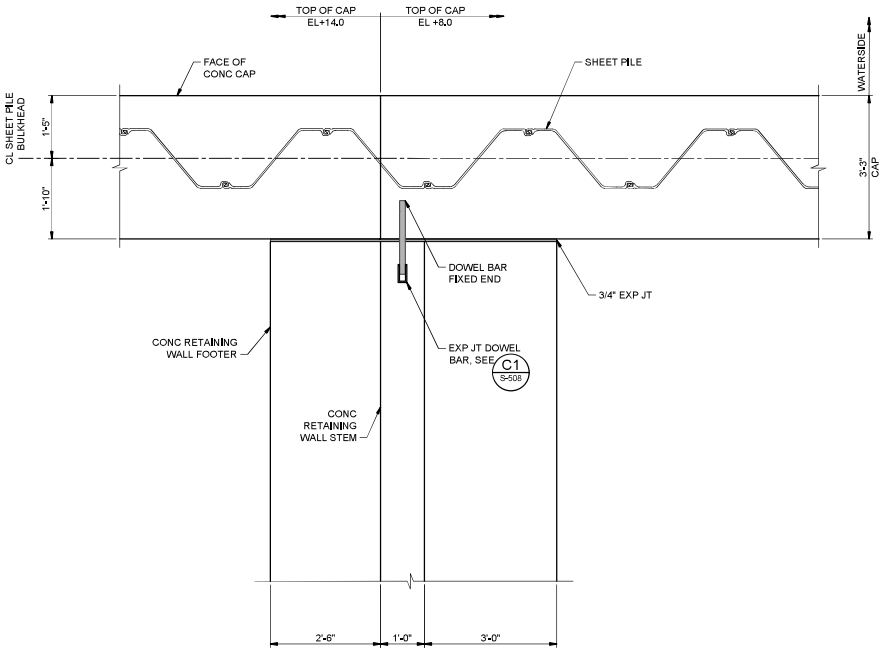
THE EAST GROUP
Landscape Architecture • Civil Engineering • Land Planning
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 28077 ENGINEER
02/21/2025

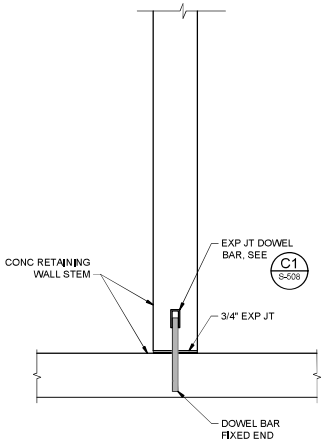
SEAL

Sheet Reference No.
S-407
INDEX: 85 OF 114

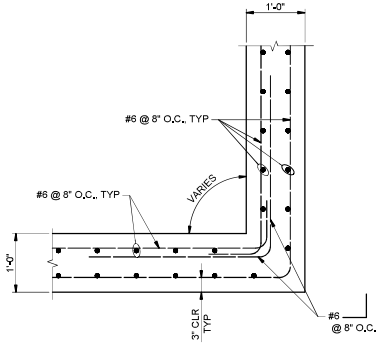
File: Q:\RALE\2315-02\00 CAD\01 Active\Greenville Town Common\2701\02\S-407 Plotted: 2/18/2025 5:50 PM by MORGAN NEKOL Saved: 2/18/2025 2:08 PM by MORGAN



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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

BULKHEAD TO RETAINING WALL DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mefflett & michel
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-341-8425
NC FIRM LICENSE NO. F-0105

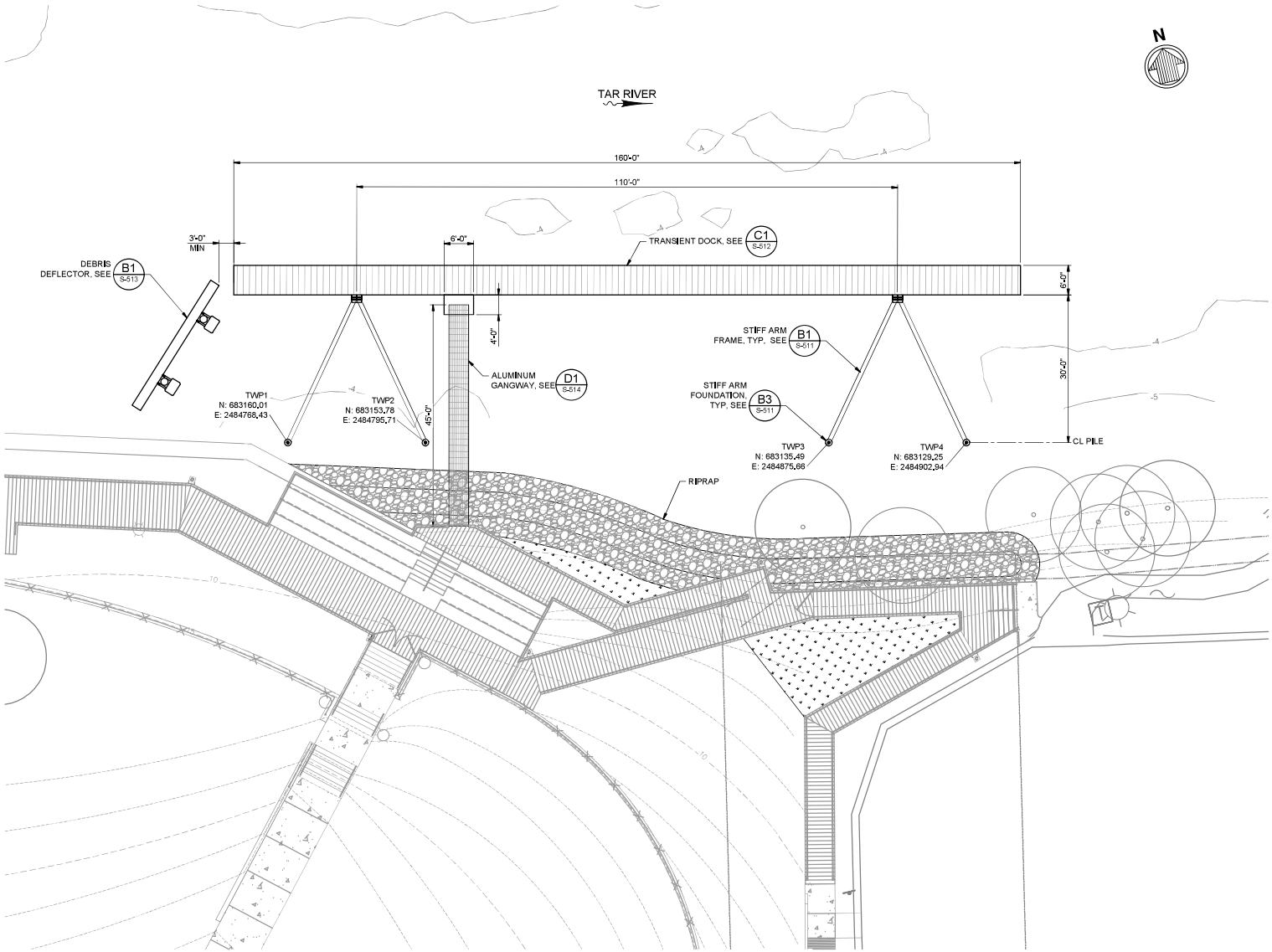
THE EAST GROUP
Engineering • Surveying • Mapping
330 EVANS ST
GREENVILLE, NC 27835-7834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 28077 ENGINEER MARK PIRRELLO
02/21/2025
SEAL

SEAL

Sheet Reference No.
S-408
INDEX: 86 OF 114

File: Q:\RALE\2715-02\20 CAD\L Achsel, Greenville Town Common\27150\S-408 Plotted: 2/18/2025 2:50 PM by MORGAN NEKOL Saved: 2/14/2025 4:50 PM by MORGAN



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

Rev.	Date	Description	Drawn
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

FLOATING DOCK ENLARGED PLAN ADDITIVE BID #1

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK FIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

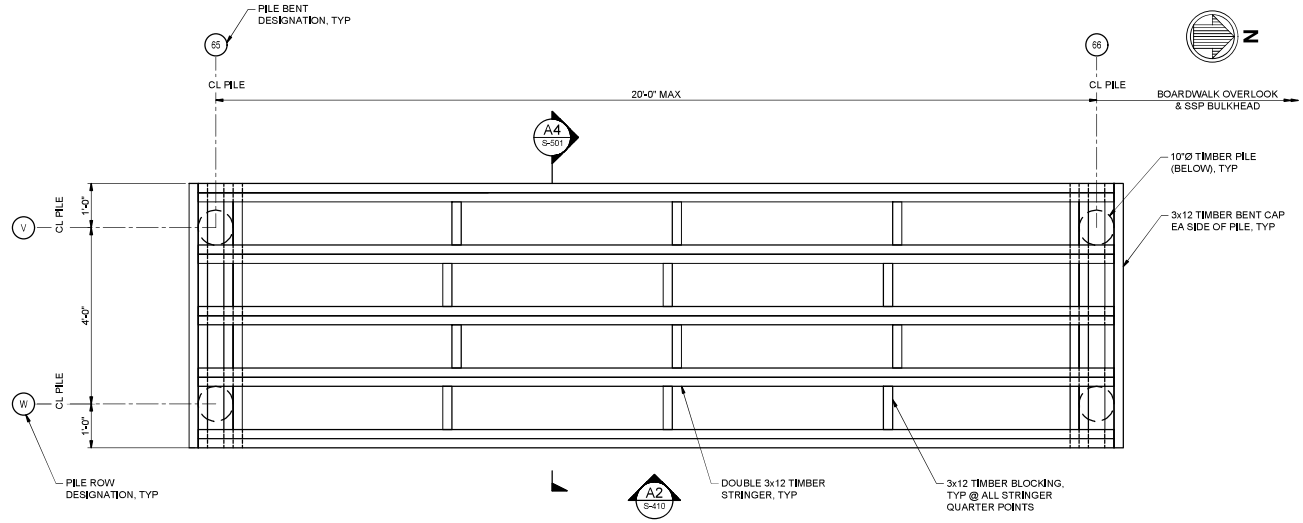
THE EAST GROUP
Civil Engineering • Land Surveying • Land Development
320 ELKINS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-1746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26077 JAMES J. SWYERS
02/21/2025
SEAL

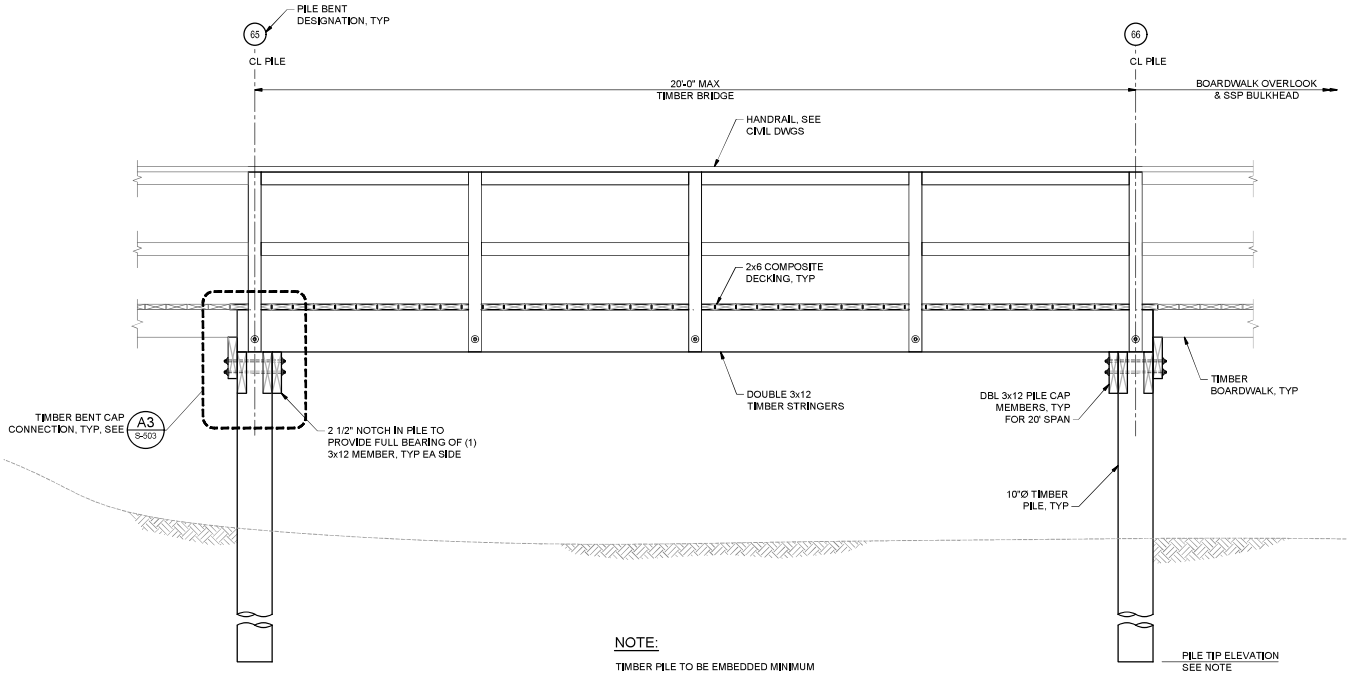
SEAL

Sheet Reference No.
S-409
INDEX: 87 OF 114

File: Q:\RALE\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02\S-409 Plotted: 2/18/2025 5:51 PM by MORGAN NEKOL Saved: 2/18/2025 4:10 PM by MORGAN



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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER BRIDGE ENLARGED PLAN & ELEVATION ADDITIVE BID #3

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

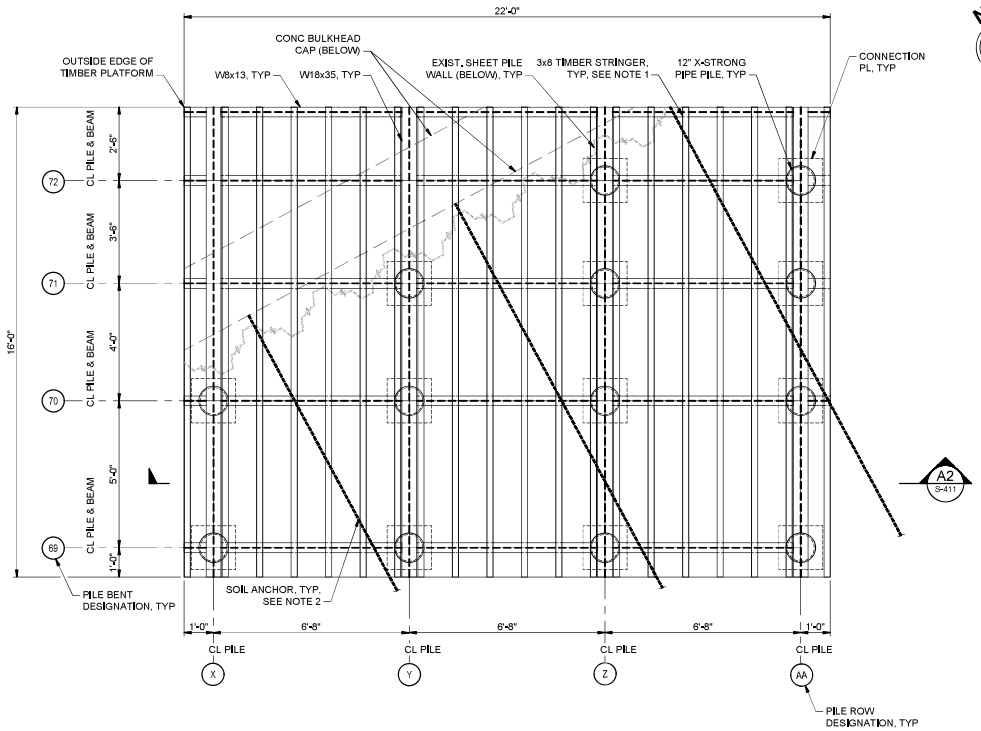
THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27835-7004
252-758-2746
NC ENGINEERING FIRM LICENSE NO. C-0298
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 08074 ENGINEER MARK PIRELLO
02/21/2025
SEAL

SEAL

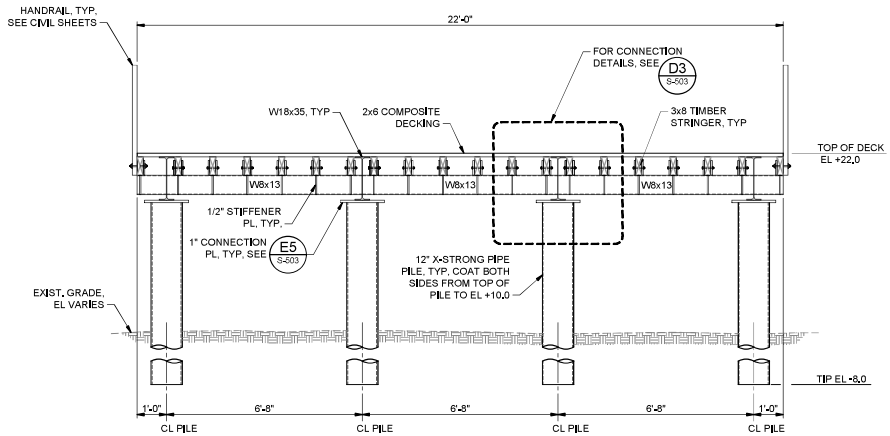
Sheet Reference No.
S-410
INDEX: 88 OF 114

File: Q:\RALE\2715-02\30 CAD\01_Active_Greenville Town Common\27101\S-410 Plotted: 2/18/2025 5:57 PM by: MORGAN NEKOL Saved: 2/14/2025 2:00 PM by: MORGAN



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

OVERLOOK ENLARGED PLAN & ELEVATION ADDITIVE BID #3

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1205

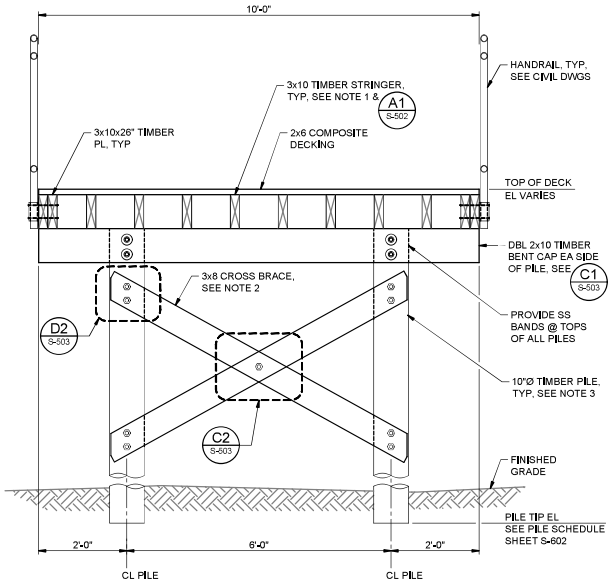
THE EAST GROUP
Engineering • Surveying • Mapping
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025
SEAL

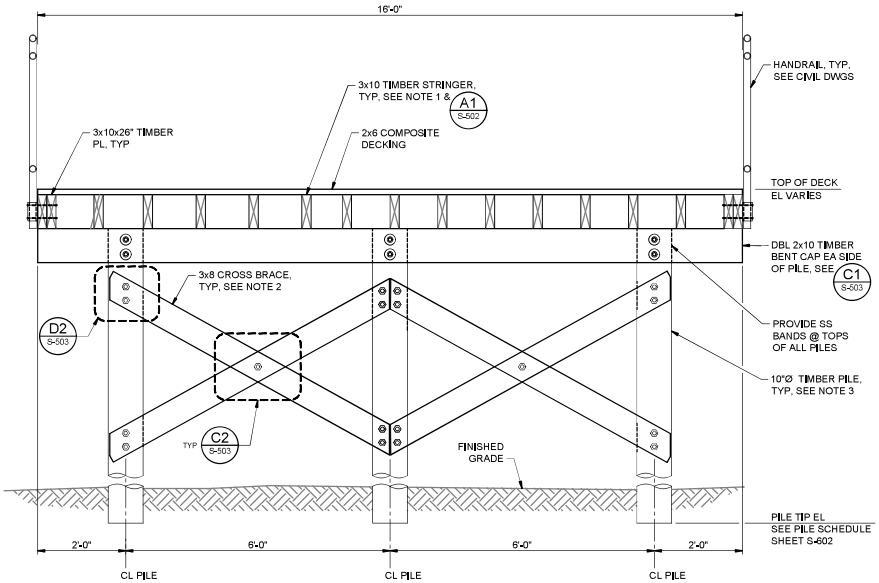
SEAL

Sheet Reference No.
S-411
INDEX: 89 OF 114

File: Q:\RAL\221315-02\00 CAD\01_Acheet_Greenville Town Common\221315\02S-411 Plotted: 2/18/2025 5:57 PM by MORGAN NEKOL Saved: 2/14/2025 2:07 PM by MORGAN



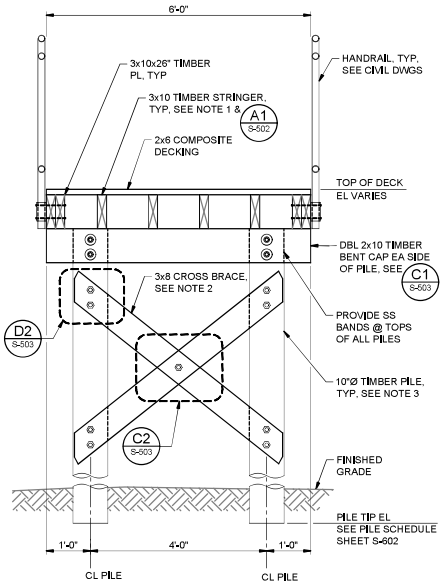
C1 ST103 SECTION - TYPICAL 10-FT WIDE BOARDWALK
SCALE: 3/4"=1'-0"
ST104, S-405



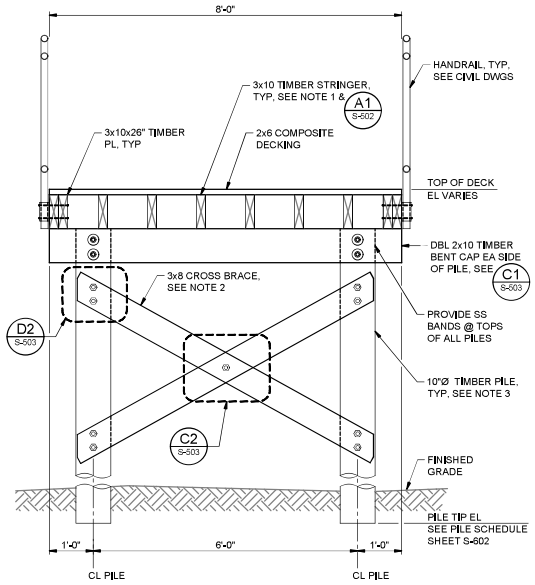
C3 SB103 SECTION - TYPICAL 16-FT WIDE BOARDWALK
SCALE: 3/4"=1'-0"
ST103, S-405

NOTES:

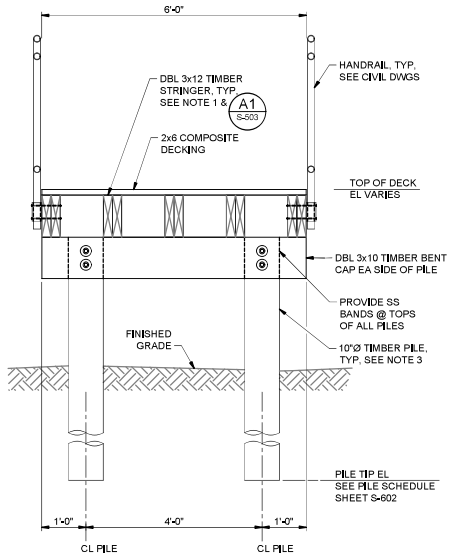
1. STRINGERS TO BE EVENLY SPACED BUT SPACED NO MORE THAN 16" O.C.
2. OMIT CROSS BRACING WHEN DISTANCE FROM TOP OF DECKING TO FINISHED GRADE IS 4'-6" OR LOWER.
3. PILE TIPS TO BE A MINIMUM OF 15- FEET BELOW EXISTING GRADE.
4. FOR TYPICAL COMPOSITE DECKING CONNECTION TO TIMBER STRINGERS, SEE DETAIL A3/S-504.



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 1 OF 5

Designed by: J. SWYERS | Date: 2025-02-07 | Rev. 0
Drawn by: VNM | Checked by: MAP | MBA Project No. 221315-02
Reviewed by: D. JACOBSON | Submitted by: MARK P. RIBELLO | Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

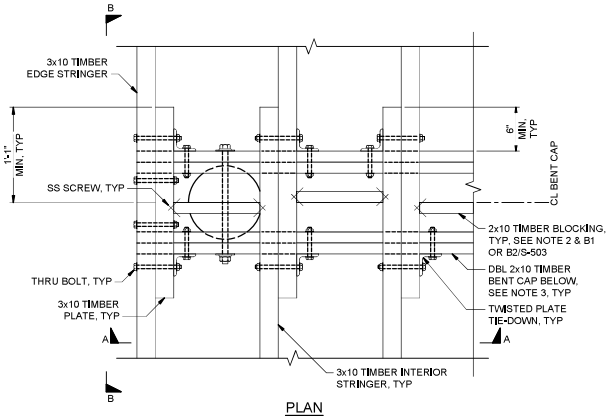
mefflett & Michel
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-1405
NC FIRM LICENSE NO. C-1405

THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746

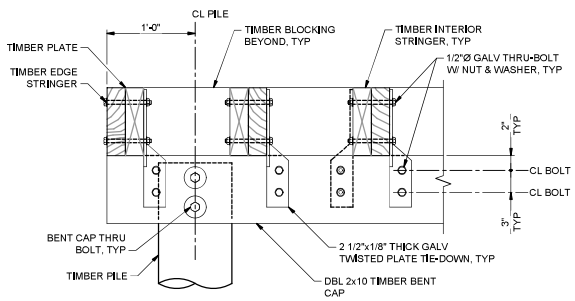
SEAL 29077 NORTH CAROLINA PROFESSIONAL ENGINEER
02/21/2025
SEAL

Sheet Reference No.
S-501
INDEX: 90 OF 114

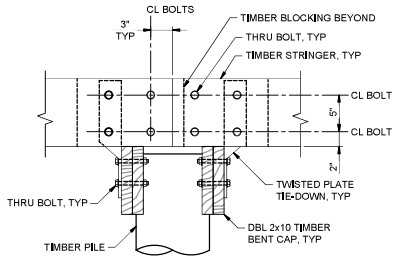
File: Q:\R\422\215-02\00 CADD_Active_Greenville Town Common\270\S-501.dwg Plotted: 2/19/2025 5:50 PM by MORGAN NEKOL Saved: 2/12/2025 1:59 PM by MORGAN



PLAN



SECTION A-A

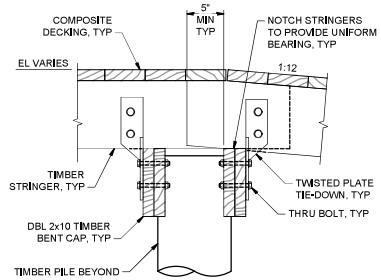


ELEVATION B-B

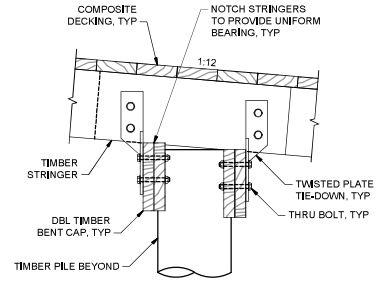
NOTES:

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.

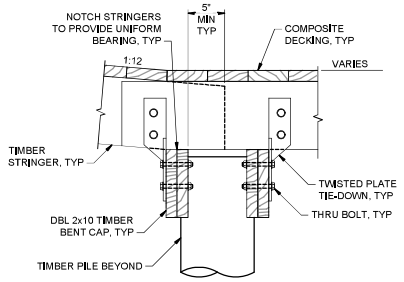
A1 / S-501 DETAIL - STRINGER CONNECTION
SCALE: 1 1/2"=1'-0"



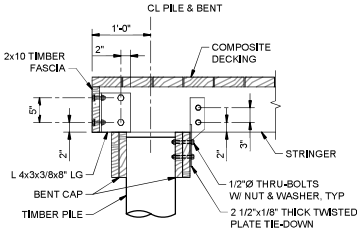
D3 / S-404 DETAIL - ELEVATION TRANSITION - TOP
SCALE: 1 1/2"=1'-0"
S-405



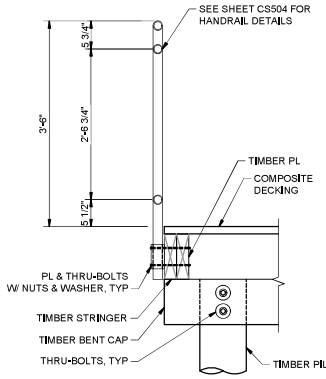
C3 / S-404 DETAIL - ELEVATION TRANSITION - INTERMEDIATE
SCALE: 1 1/2"=1'-0"
S-405



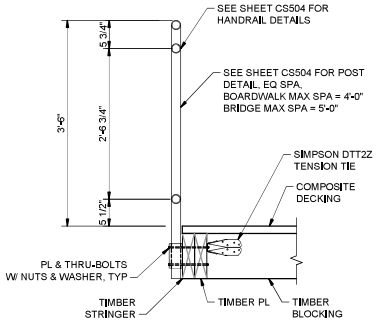
A3 / S-404 DETAIL - ELEVATION TRANSITION - BOTTOM
SCALE: 1 1/2"=1'-0"
S-405



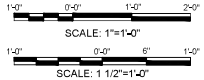
E4 / S-406 END SECTION
SCALE: 1"=1'-0"



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



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

No.	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	JHB

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 2 OF 5

Designed by: J. SWYERS | Date: 2025-02-07 | Rev. 0
Drawn by: VNM | Checked by: MAP | MBA Project No. 221315-02
Reviewed by: D. JACOBSON | Drawing Code:
Submitted by: MARK PIRELLO, MOFFATT & NICHOL | Drawing Scale: AS SHOWN | Plot scale: 1:1 (0 SHEET)

4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 NC FIRM LICENSE NO. F-0105

moffatt & nichol

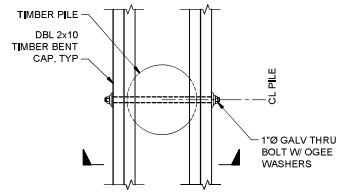
THE EAST GROUP
330 EVANS ST GREENVILLE, NC 27858 252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL 02/21/2025

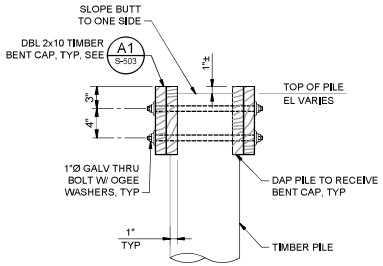
SEAL

Sheet Reference No.
S-502
INDEX: 91 OF 114

File: Q:\RALE\221315-02\30 CAD\01_Active_Greenville Town Commons\221315-02S-502. Plotted: 2/19/2025 5:54 PM by: MORGAN NEKOL, Saved: 2/19/2025 5:08 PM by: MORGAN

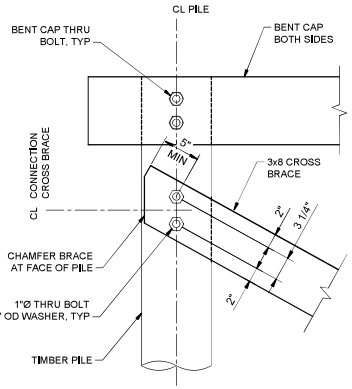


PLAN

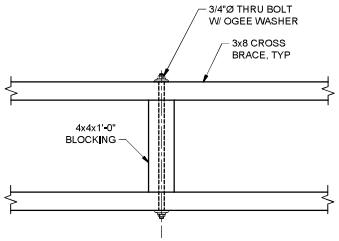


SECTION

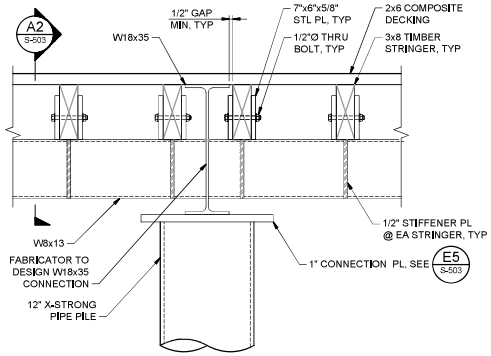
C1 S-501 BENT CAP CONNECTION
SCALE: 1 1/2"=1'-0"



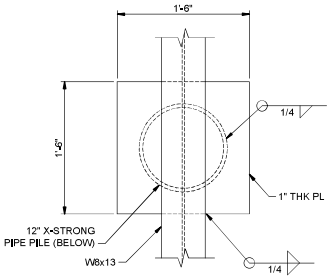
D2 S-501 CROSS BRACE CONNECTION
SCALE: 1 1/2"=1'-0"



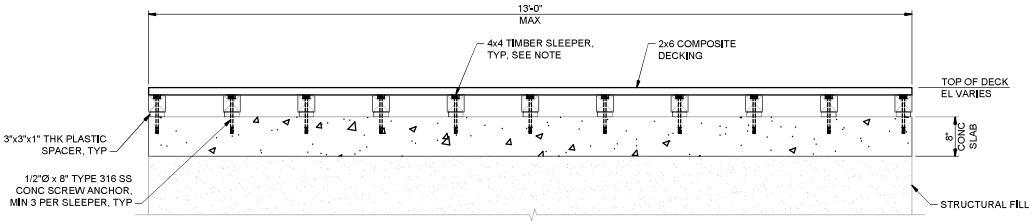
C2 S-501 CROSS BRACE BLOCKING
SCALE: 1 1/2"=1'-0"



D3 S-411 CONNECTION
SCALE: 1 1/2"=1'-0"

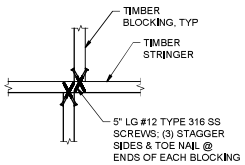


E5 S-411 CONNECTION PLATE
SCALE: 1 1/2"=1'-0"
S-503

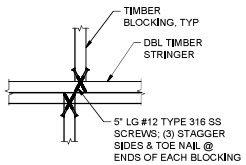


NOTE:
SLEEPERS TO BE EVENLY SPACED BUT SPACED NO MORE THAN 16" O.C.

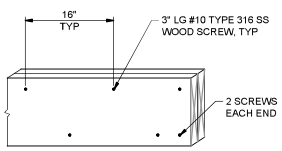
C3 S-503 BOARDWALK TO CENTRAL PLAZA CONNECTION
SCALE: 1"=1'-0"



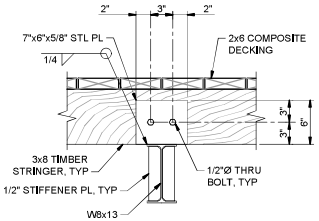
B1 S-502 BLOCKING
SCALE: 1 1/2"=1'-0"



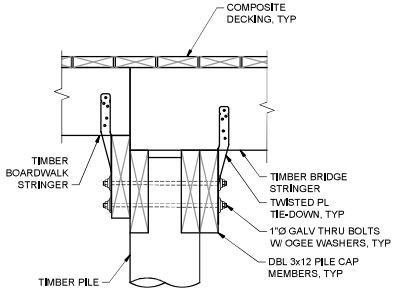
B2 S-502 BLOCKING
SCALE: 1 1/2"=1'-0"



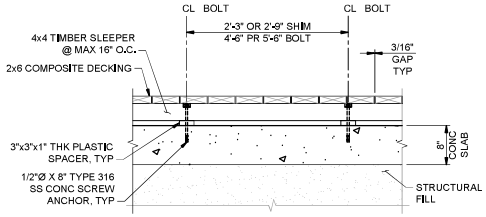
A1 S-501 DOUBLE TIMBER ASSEMBLY
SCALE: NTS
S-503



A2 S-503 TIMBER STRINGER TO STL BEAM CONNECTION
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
ISSUED: 2025-02-07
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 3 OF 5

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

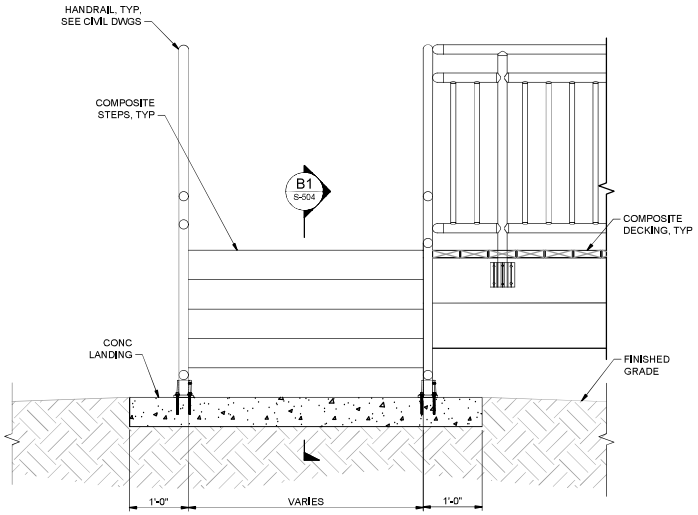
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1205

THE EAST GROUP
320 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

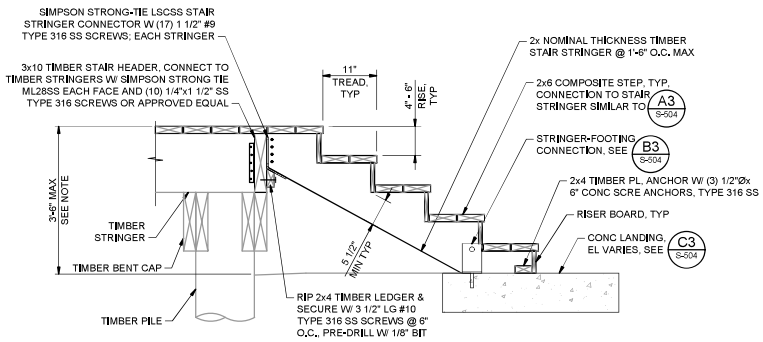
SEAL
02/21/2025

Sheet Reference No.
S-503
INDEX: 92 OF 114

File: Q:\RALE\2315-02\00 CAD\01 Active\Greenville Town Common\2701\S-503 Plotted: 2/18/2025 5:35 PM by MORGAN NEKOL Saved: 2/14/2025 2:08 PM by MORGAN NEKOL

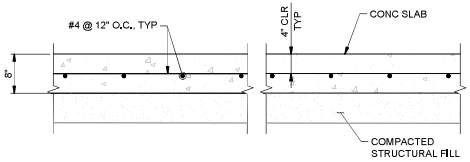


D1 ST103 ELEVATION - TIMBER STAIRS
SCALE: 1"=1'-0"

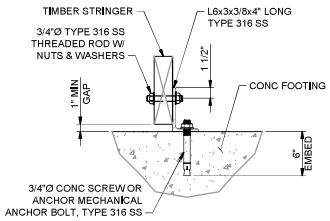


NOTE:
ADJUST RISER HEIGHT UP TO 6" MAXIMUM HEIGHT AND ADD OR SUBTRACT RISERS TO REACH REQUIRED OVERALL HEIGHT. ALL RISERS SHALL BE SAME HEIGHT.

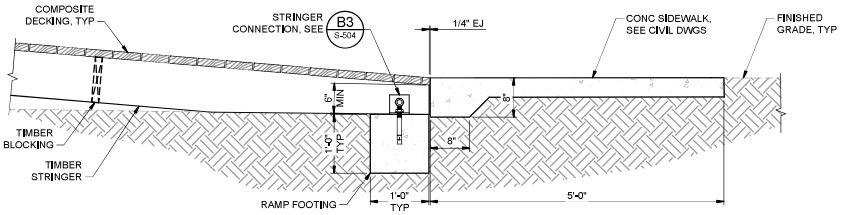
B1 S-504 DETAIL - TIMBER STAIRS
SCALE: 1"=1'-0"



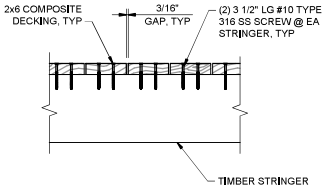
C3 S-504 CONCRETE LANDING
SCALE: 1"=1'-0"



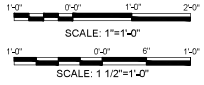
B3 S-503 DETAIL
SCALE: 1 1/2"=1'-0"
S-504



A1 S-504 DETAIL - RAMP
SCALE: 1"=1'-0"



A3 S-501 SECTION
SCALE: 1 1/2"=1'-0"
S-504



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.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 4 OF 5

Date: 2025-02-07 Rev. 0
MBA Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

Designed by: J. SWYERS
Dwn by: VNM
Ckd by: MJP
Reviewed by: D. JACOBSON
Submitted by: MARK FIRELLO MOFFATT & NICHOL

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

moffatt & nichol

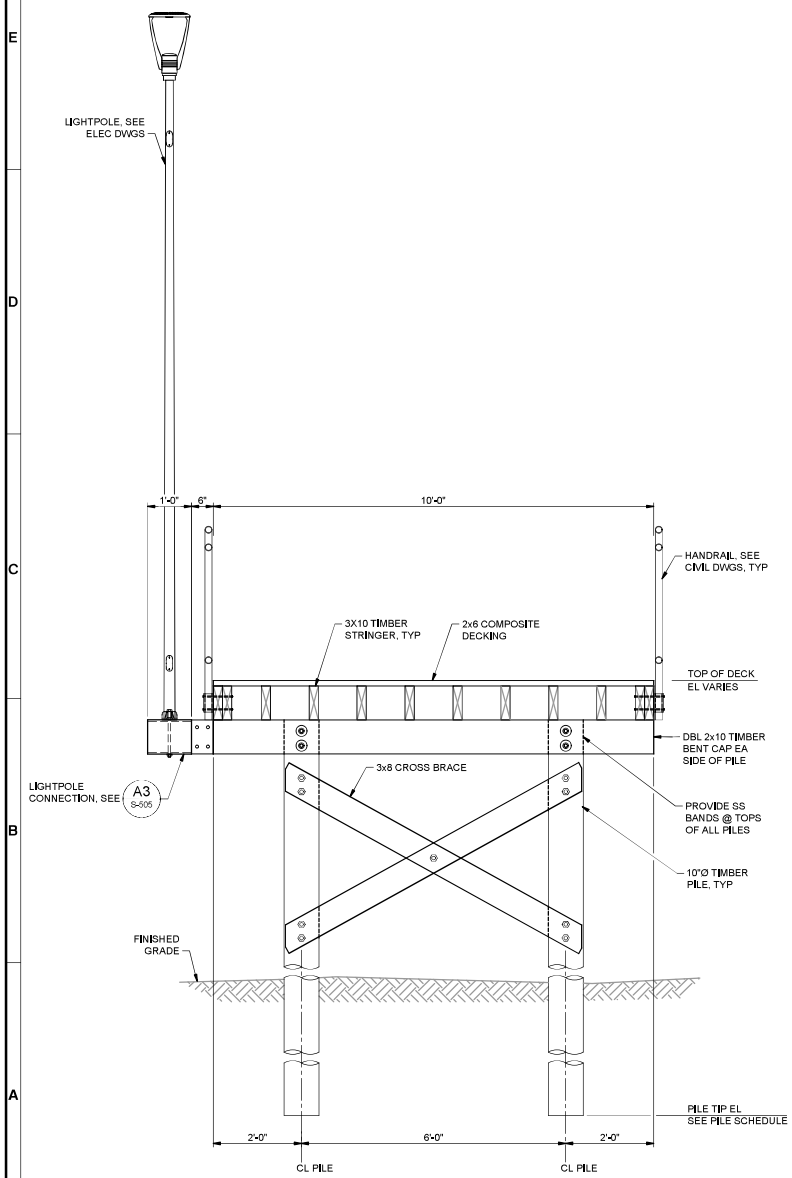
THE EAST GROUP
330 EVANS ST GREENVILLE, NC 27834 252-758-1766
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER MARK FIRELLO
02/21/2025
SEAL

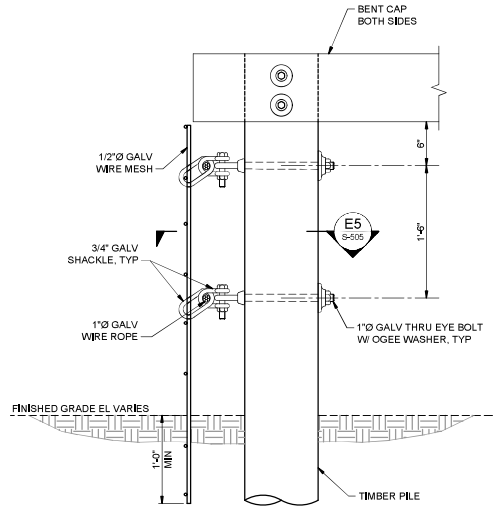
SEAL

Sheet Reference No.
S-504
INDEX: 93 OF 114

File: Q:\RAL\221315-02\30 CAD\01_Active_Greenville Town Common\221315\30S-504.dwg Plotted: 2/19/2025 5:55 PM by: MORGAN NEKOL Saved: 2/14/2025 5:10 PM by: MORGAN NEKOL

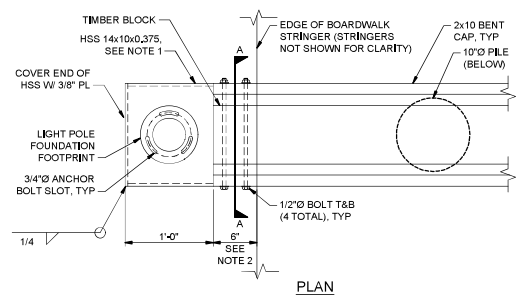


A1 S-406 SECTION - LIGHTPOLE ON BOARDWALK
SCALE: 3/4"=1'-0"
S-407

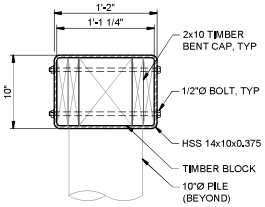


NOTE:
FOR SPLICING WIRE ROPE & WIRE MESH, SEE DETAIL D5/S-505.

C3 S-505 DETAIL - BRACKET
SCALE: 1 1/2"=1'-0"



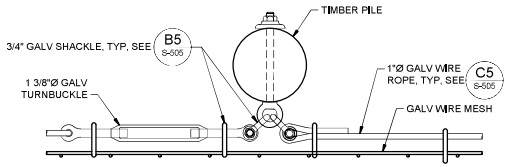
PLAN



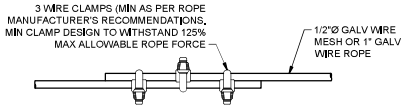
SECTION A-A

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.

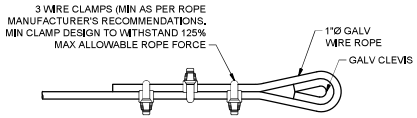
A3 S-505 DETAIL - LIGHT POLE
SCALE: 1 1/2"=1'-0"



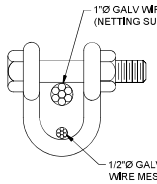
E5 S-505 TENSION BRACKET
SCALE: NTS



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

No.	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	J.S

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

TIMBER WALKWAY DETAILS SHEET 5 OF 5

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MJP
MBA Project No. 22315-02
Reviewed by: D. JACOBSON
Checking code:
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mefflett & michel
4700 FALLS OF NEUSE RD. SUITE 300
RALEIGH, NC 27609
919-341-8400
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
Civil Engineering • Land Planning • Surveying
320 EVANS ST
GREENVILLE, NC 27834
252-756-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

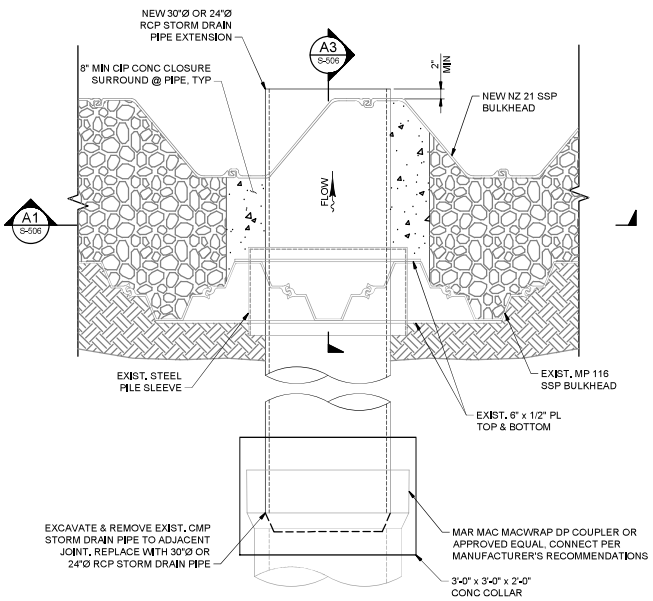
Submitted by: MARK PIRELLO
MOFFATT & NICHOL

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025

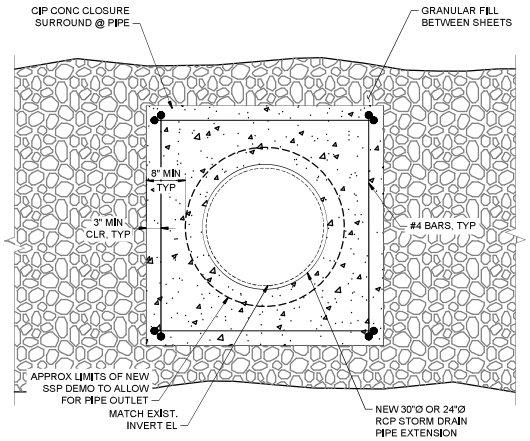
SEAL

Sheet Reference No.
S-505
INDEX: 94 OF 114

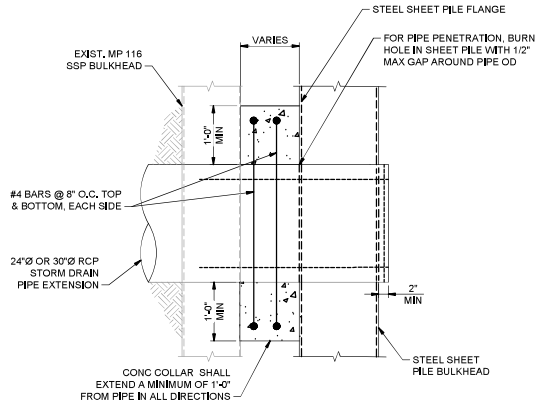
File: Q:\RAL\22315-02\30 CAD\L Active_Greenville Town Common\27\01\S-505 Plotted: 2/19/2025 5:55 PM by MORGAN NEKOL Saved: 2/14/2025 2:30 AM by MORGAN



C1 SB101 SCHEMATIC STORM DRAIN PIPE EXTENSION
SCALE: 1"=1'-0"
SB102, SB103



A1 S-506 SECTION
SCALE: 1"=1'-0"



A3 S-506 DETAIL - PIPE PENETRATION
SCALE: 1"=1'-0"

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.

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

Rev.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	J.R.B.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DRAIN PIPE EXTENSION DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

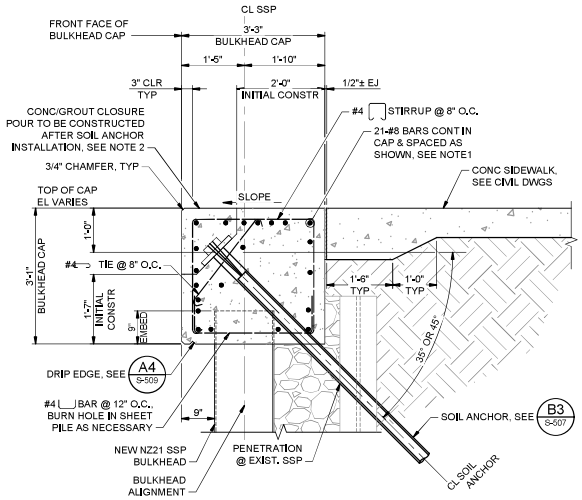
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. F-0105

THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-758-1746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427

SEAL 02/21/2025

Sheet Reference No.
S-506
INDEX: 95 OF 114

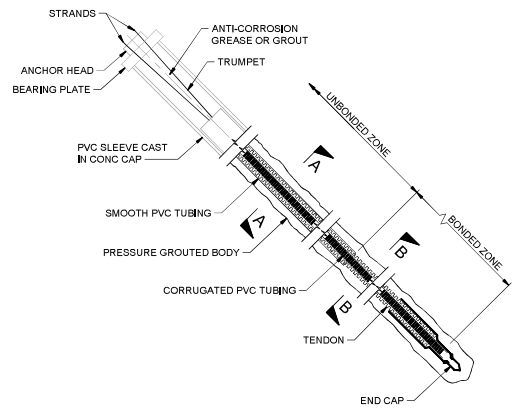
File: Q:\RALE\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02S-506 Plotted: 2/18/2025 5:50 PM by: MORGAN NEKOL Saved: 2/14/2025 8:45 AM by: MORGAN



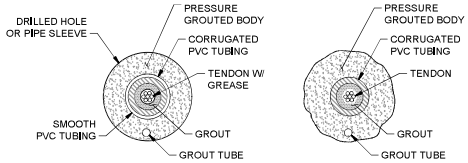
NOTES:

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-501.
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
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Date	Description	Dwn.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SOIL ANCHOR DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

THE EARTH GROUP
330 EVANS ST
GREENVILLE, NC 27834
252-756-1746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Geotechnical • Environmental • Construction Materials Testing

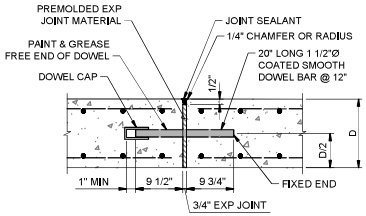
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
SEAL
02/21/2025

SEAL

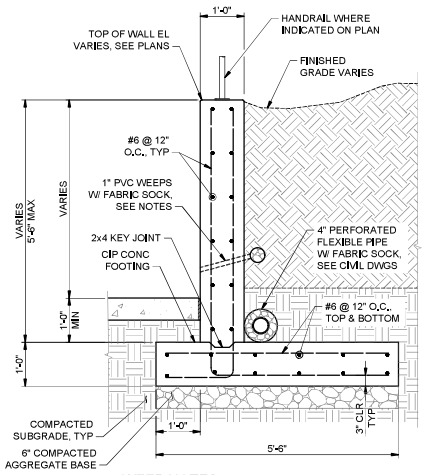
Sheet Reference No.
S-507
INDEX: 96 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

File: Q:\RALEIGH\221315-02\00 CAD\01 Active_Greenville Town Common\221315-02S-507. Plotted: 2/18/2025 5:57 PM by MORGAN NEKOL. Saved: 2/14/2025 5:14 PM by MORGAN



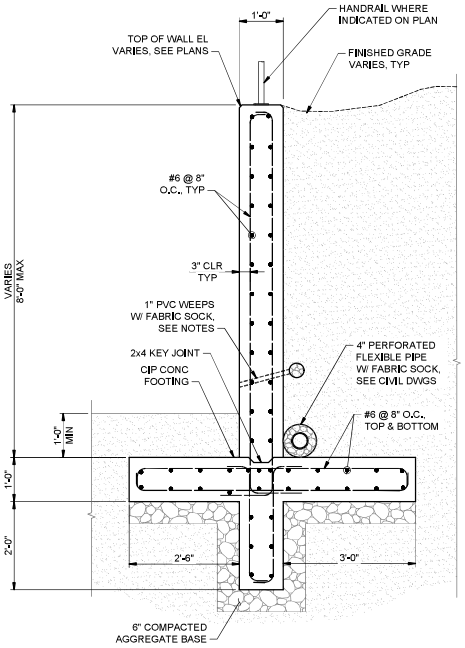
C1 S-401 DETAIL - EXPANSION JOINT
SCALE: NTS



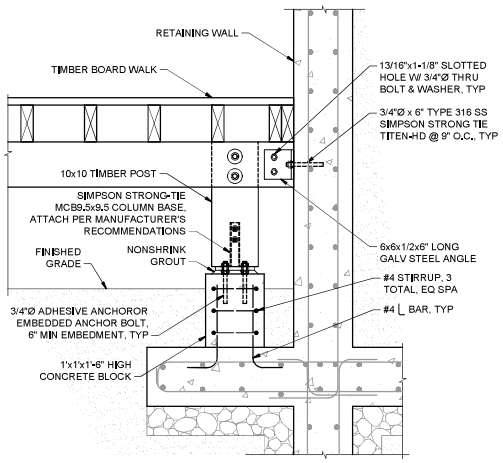
WEEP NOTES:

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.

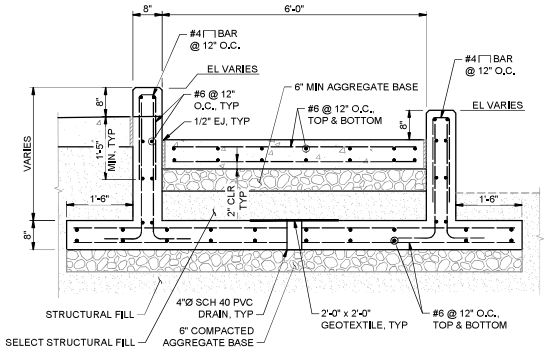
A1 SB103 SECTION - RETAINING WALL
SCALE: 3/4"=1'-0"
S-303



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"

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
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Date	Description	Drawn
3	2025-02-07	ISSUED FOR BID	JHS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

RETAINING WALL DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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
330 EVANS ST
GREENVILLE, NC 27834
252-756-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Planning • Surveying

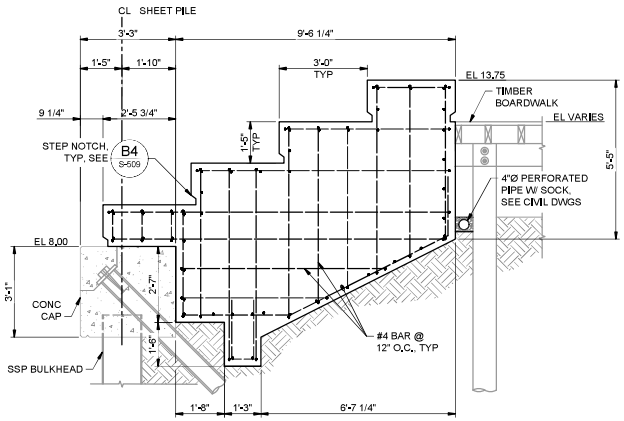
SEAL
02/21/2025

SEAL

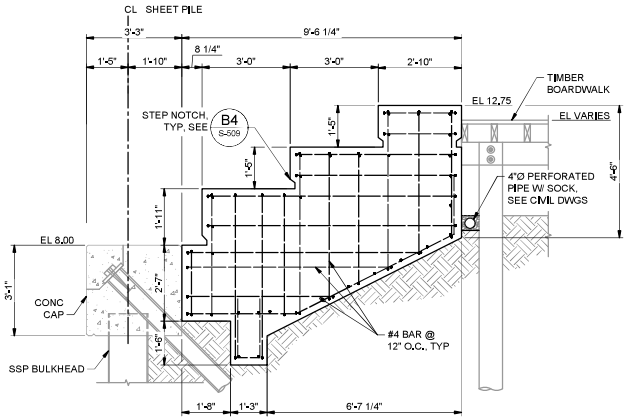
Sheet Reference No.
S-508
INDEX: 97 OF 114

File: Q:\RALE\221315-02\3D CAD\L Actiel_Greenville Town Common\221315-02S-508 Plotted: 2/18/2025 5:57 PM by: MORGAN NEKOL Saved: 2/14/2025 10:07 AM by: MMORGAN

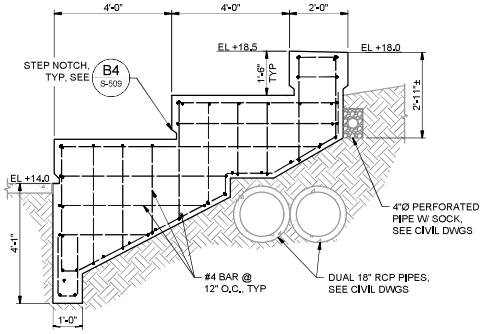
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



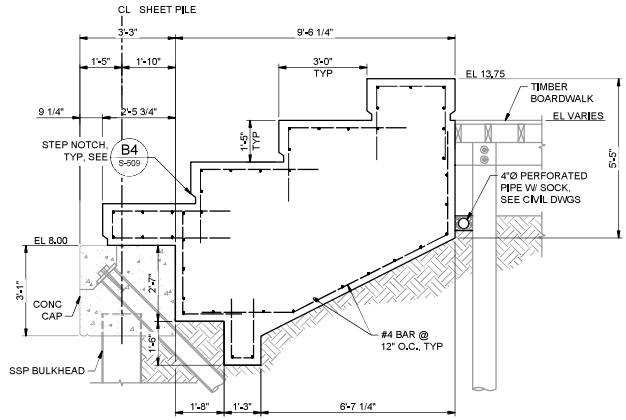
C1 S-509 DETAIL- EAST UPPER TERRACED SEATING EDGE REINFORCING
SCALE: 1/2"=1'-0"



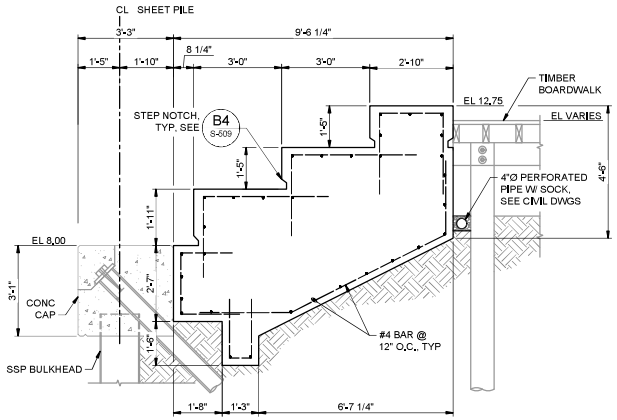
C3 S-509 DETAIL - EAST LOWER TERRACED SEATING EDGE REINFORCING
SCALE: 1/2"=1'-0"



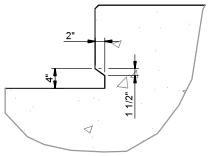
C4 ST102 S-302 DETAIL - WEST TERRACED SEATING
SCALE: 1/2"=1'-0"



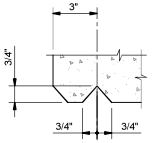
A1 ST104 S-305 DETAIL - EAST UPPER TERRACED SEATING INTERIOR REINFORCING
SCALE: 1/2"=1'-0"



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"

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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description
0	2025-02-07	ISSUED FOR BID

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

CONCRETE DETAILS

Date: 2025-02-07 Rev. 0
Designed by: J. SWYERS
MBH Project No. 221315-02
Drawn by: VNM
Checked by: MAP
Reviewed by: D. JACOBSON
Drawing Code:
Drawing Scale: AS SHOWN
Submitted by: MARK PIRRELLO
Plot scale: 1:1 (0 SHEET)

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

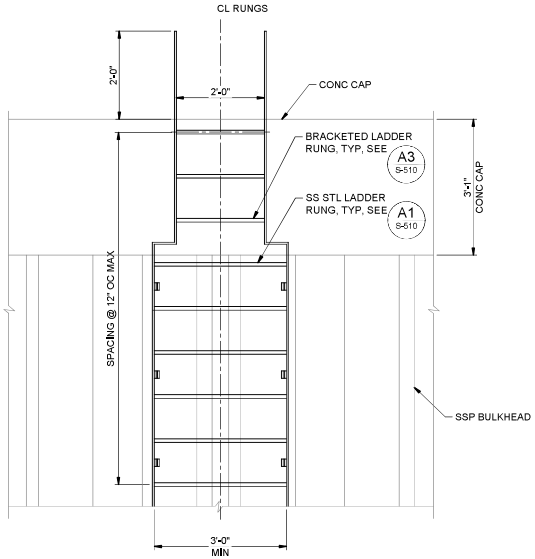
THE EAST GROUP
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL 02/21/2025

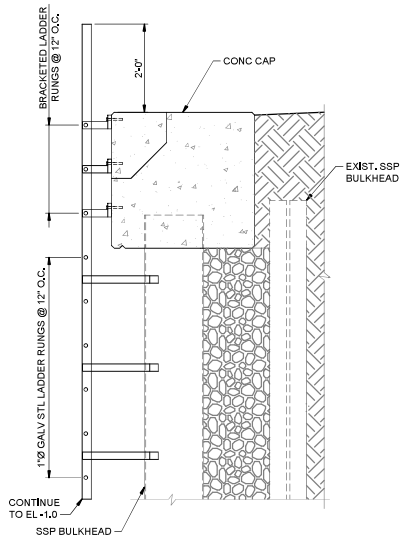
SEAL

Sheet Reference No.
S-509
INDEX: 98 OF 114

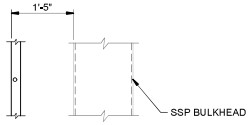
File: Q:\RAL\221315-02\30 CAD\01_Active_Greenville Town Common\221315-02S-509.dwg Plotted: 2/19/2025 5:50 PM by: MORGAN NEKOL Saved: 2/14/2025 10:41 AM by: MMORGAN



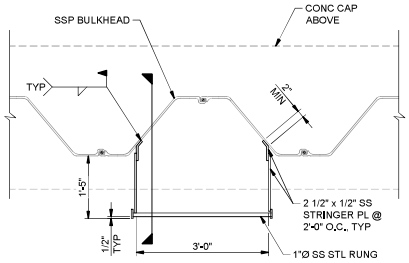
C1 S-510 ELEVATION - LADDER
SCALE: 3/4"=1'-0"



C3 S-510 SECTION - LADDER
SCALE: 3/4"=1'-0"

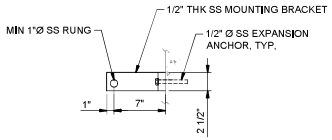


SECTION

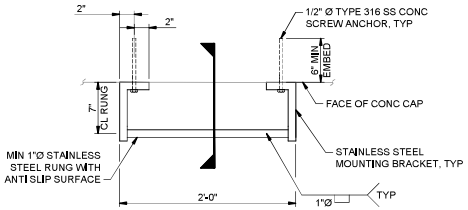


PLAN

A1 S-511 REBAR LADDER RUNG
SCALE: 3/4"=1'-0"

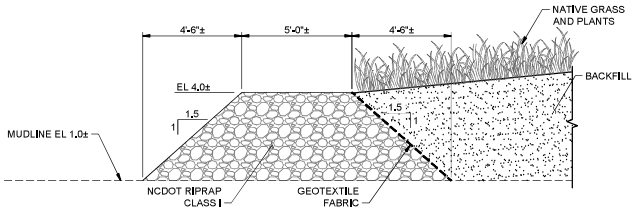


SECTION



PLAN

A3 S-511 LADDER RUNG @ CAP
SCALE: 1 1/2"=1'-0"



B4 ST104 SECTION - SHORELINE PROTECTION
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
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Mark	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

MISCELLANEOUS DETAILS

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 919-781-4626 NC FIRM LICENSE NO. C-1105

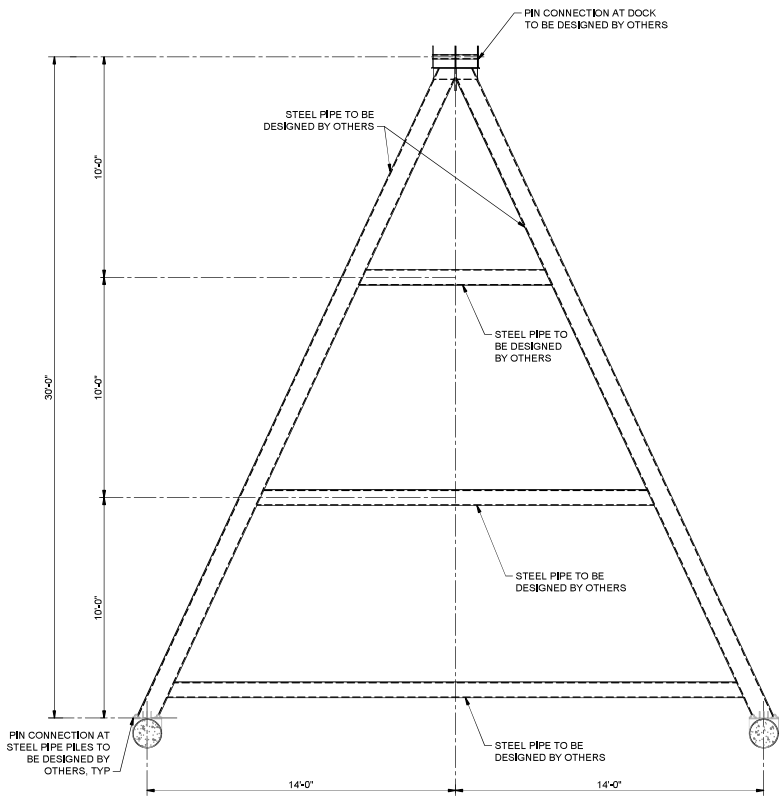
THE EAST GROUP
330 EVANS ST GREENVILLE, NC 27835 252-758-1436
NC ENGINEERING FIRM LICENSE NO. C-0299 NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

SEAL

Sheet Reference No.
S-510
INDEX: 99 OF 114

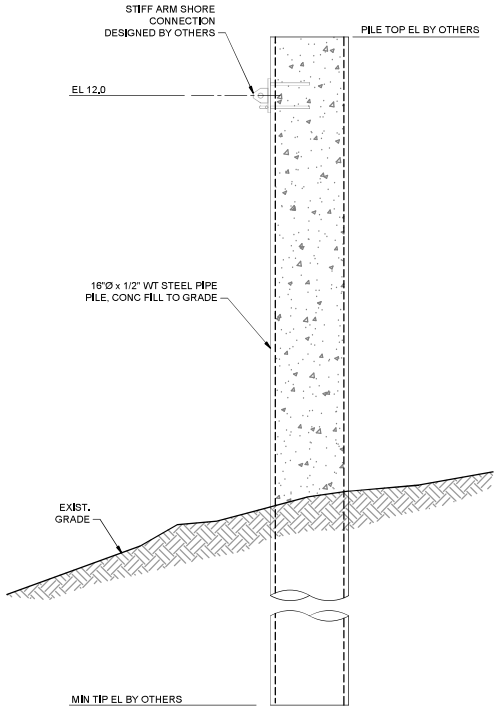
File: Q:\RAL\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02S-510 Plotted: 2/18/2025 5:58 PM by MORGAN NEKOL Saved: 2/14/2025 2:22 PM by MORGAN



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

STIFF ARM DETAILS ADDITIVE BID #1

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

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

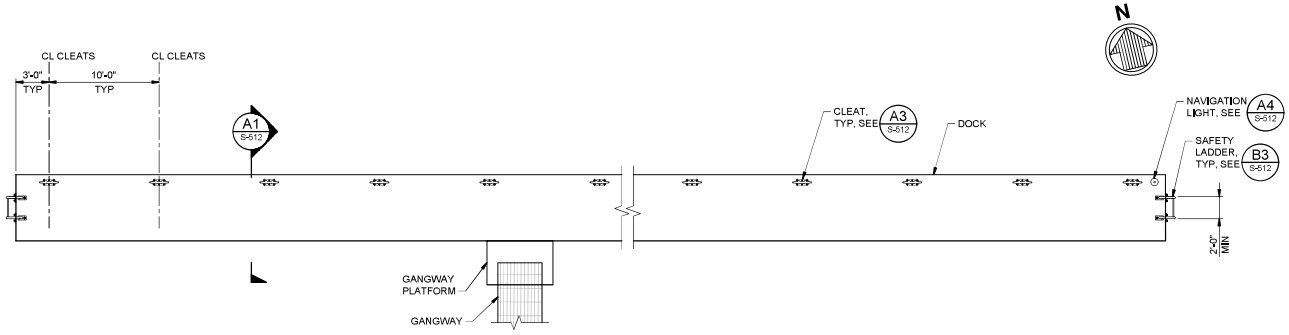
THE EAST GROUP
Surveying • Mapping • Geomatics
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-427
330 EVANS ST
GREENVILLE, NC 27858
252-758-1746

SEAL
02/21/2025

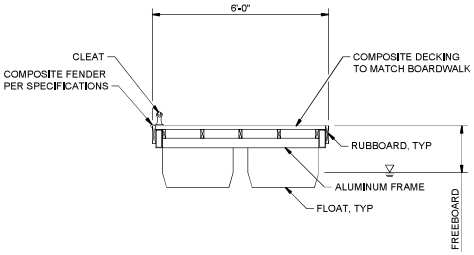
SEAL

Sheet Reference No.
S-511
INDEX: 100 OF 114

File: Q:\RALE\221315-02\00 CAD\01_Active_Greenville Town Common\221315-02-511.dwg Plotted: 2/18/2025 5:59 PM by MORGAN NEKOL Saved: 2/14/2025 5:33 PM by MORGAN



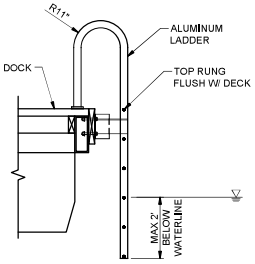
C1 S-409 PLAN - TRANSIENT DOCK
SCALE: 3/16=1'-0"



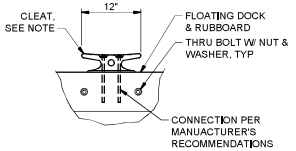
NOTE:

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

A1 S-512 SECTION
SCALE: NTS



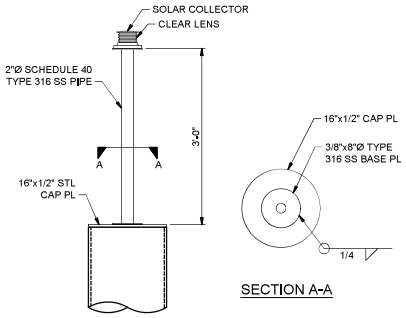
B3 S-512 DETAIL - SAFETY LADDER
SCALE: NTS



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.

S-513 A4 S-512 DETAIL - NAVIGATION LIGHT
SCALE: NTS

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

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

FLOATING DOCK DETAILS ADDITIVE BID #1

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Dwn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing Code:
Drawing Scale: AS SHOWN
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Plot scale: 1:1 (0 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
320 EVANS ST GREENVILLE, NC 27835-7004 252-756-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437
Civil Engineering • Land Development • Surveying

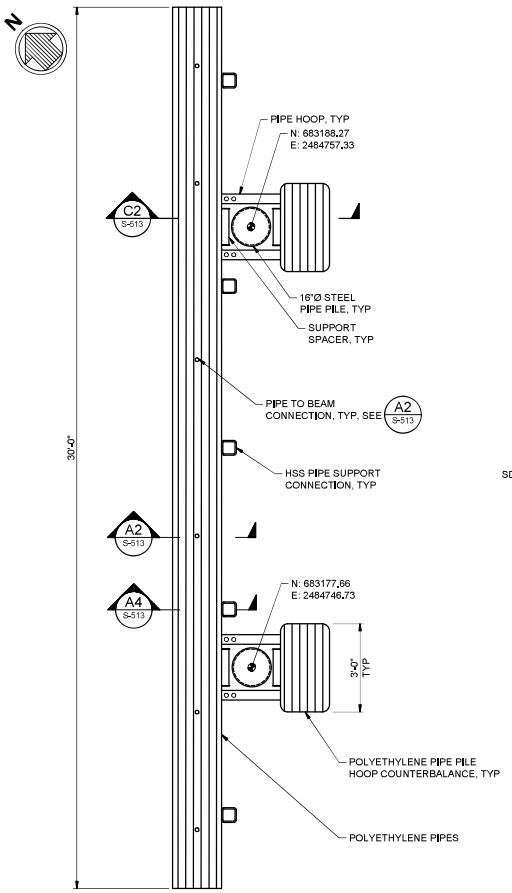
NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025
SEAL

SEAL

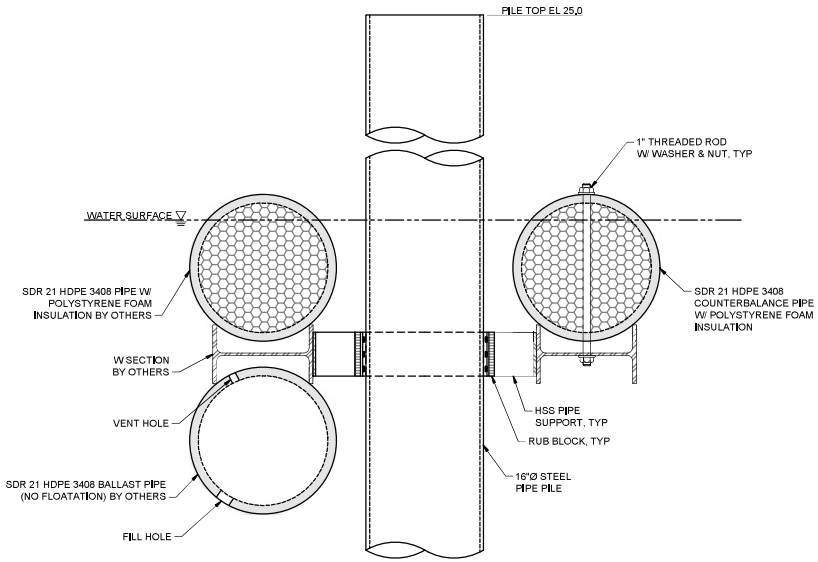
Sheet Reference No.
S-512
INDEX: 101 OF 114

File: Q:\RALE\215-02\00 CADD_Active_Greenville Town Common\215102S-512.dwg Plotted: 2/18/2025 5:59 PM by MORGAN NEKOL Saved: 2/18/2025 3:47 PM by MORGAN

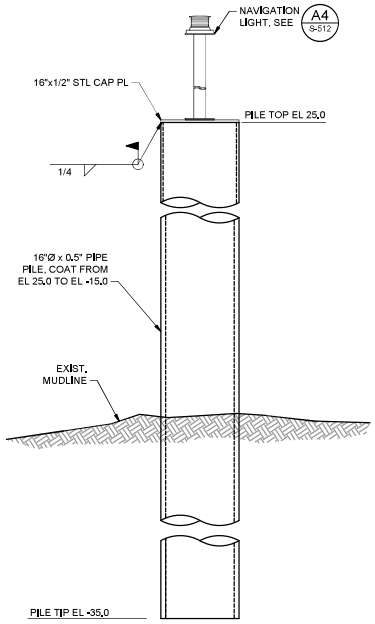
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



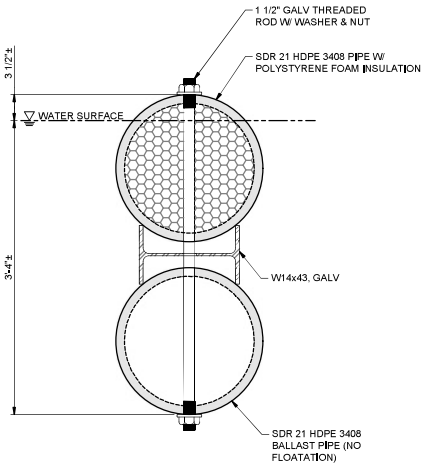
B1 PLAN - DEBRIS DEFLECTOR
S-409 SCALE: 1/2"=1'-0"



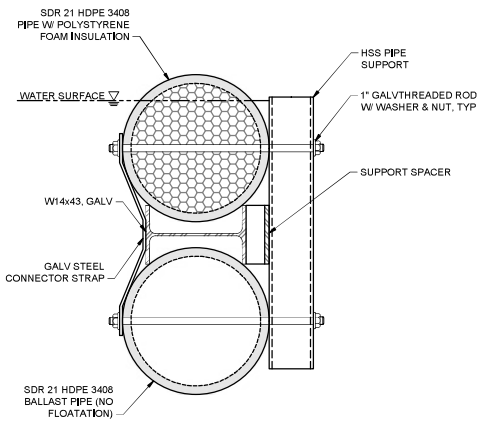
C2 SECTION - PILE HOOP
S-513 SCALE: 1 1/2"=1'-0"



C5 SECTION - STEEL PIPE PILE
S-513 SCALE: 1"=1'-0"



A2 SECTION - PIPE TO BEAM CONNECTION
S-513 SCALE: 1 1/2"=1'-0"



A4 SECTION - PIPE SUPPORT CONNECTION
S-513 SCALE: 1 1/2"=1'-0"

NOTE:

DEBRIS DEFLECTOR SYSTEM TO BE DESIGNED BY MANUFACTURER.

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

No.	Description	Date	Rev.
3	ISSUED FOR BID	2025-02-07	J.S

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

DEBRIS DEFLECTOR DETAILS ADDITIVE BID #1

Designed by: J. SAWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBH Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

mefflett & Michel
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-1405

THE CAST GROUP
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

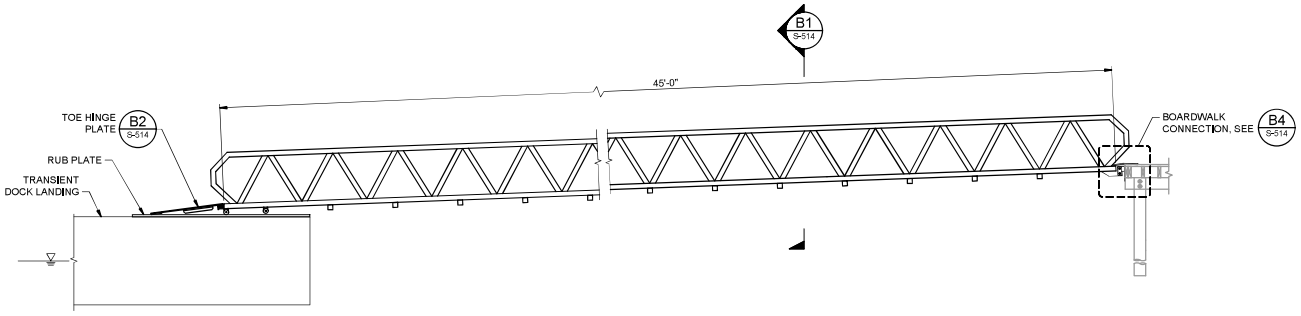
SEAL
02/21/2025

SEAL

Sheet Reference No.
S-513
INDEX: 102 OF 114

File: Q:\RALE\2315-02\CD\CAD\Actiwit_Greenville Town Common\S\2315-02S-513 Plotted: 2/18/2025 5:59 PM by MORGAN NEKOL Saved: 2/18/2025 4:08 PM by MORGAN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

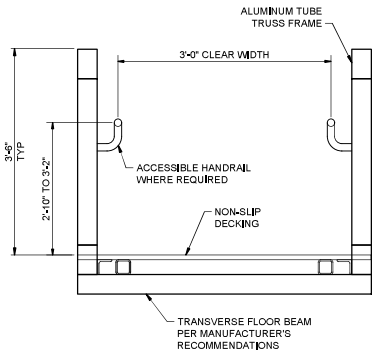


D1 S-406 ELEVATION - ALUMINUM GANGWAY
SCALE: NTS

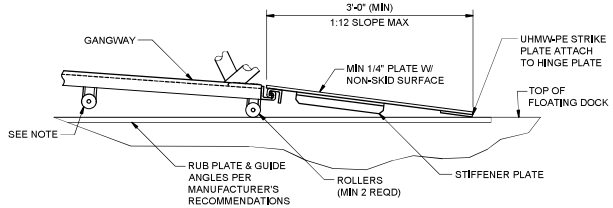
S-409

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.



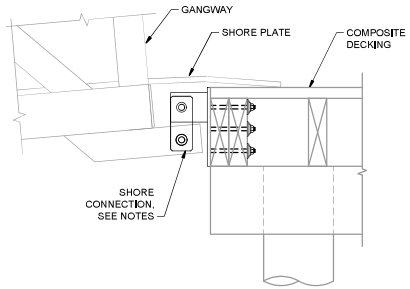
B1 S-514 SECTION
SCALE: NTS



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
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
3	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

GANGWAY DETAILS ADDITIVE BID #1

Designed by: J. SWYERS | Date: 2025-02-07 | Rev. 0
Drawn by: VNM | Chk'd by: MAP | MBA Project No. 221315-02
Reviewed by: D. JACOBSON | Drawing code:
Submitted by: MARK PIRELLO, MOFFATT & NICHOL | Drawing Scale: AS SHOWN | Plot scale: 1:1 (0 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 • Landscape Architecture
330 EVANS ST
GREENVILLE, NC 27858
252-756-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

SEAL
02/21/2025

SEAL

Sheet Reference No.
S-514
INDEX: 103 OF 114

File: Q:\R\022\315-02\CD\CAD\L Activel_Greenville Town Commons\27015\S-514 Plotted: 2/18/2025 6:00 PM by MORGAN NEKOL Saved: 2/14/2025 1:16 PM by MORGAN

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"	
103	B		35	125	51'-0"	
104	B		35	125	51'-0"	
105	B		35	125	51'-0"	
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
NOT TO BE USED FOR CONSTRUCTION

Greenville NORTH CAROLINA

Rev.	Date	Description
0	2025-02-07	ISSUED FOR BID

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SOIL ANHOR SCHEDULE

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Checked by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Checking code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746

SEAL
02/21/2025

SEAL

Sheet Reference No.
S-601
INDEX: 104 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

File: Q:\RAL\221315-02\30 CAD\L Acheet_Greenville Town Commons\221315-S01 Plotted: 2/18/2025 6:00 PM by MORGAN NEKOL Saved: 2/14/2025 3:47 PM by MORGAN

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	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
72	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

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

Greenville NORTH CAROLINA

No.	Date	Description	Rev.
0	2025-02-07	ISSUED FOR BID	JJS

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

PILE SCHEDULE

Designed by: J. SWYERS
Date: 2025-02-07
Rev. 0
Drawn by: VNM
Chk'd by: MAP
MBA Project No. 221315-02
Reviewed by: D. JACOBSON
Drawing code:
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
919-781-4626
NC FIRM LICENSE NO. C-1105

THE EAST GROUP
Environmental Engineering • Land Development • Surveying
330 EVANS ST
GREENVILLE, NC 27834
252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 050774 ENGINEER
02/21/2025
SEAL

SEAL

Sheet Reference No.
S-602
INDEX: 105 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

File: Q:\RALE\221315-02\30 CAD\L Active\Greenville Town Common\221315S-602.dwg Plotted: 2/18/2025 8:01 PM by MORGAN NEKOL Saved: 2/14/2025 8:45 PM by MORGAN

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.

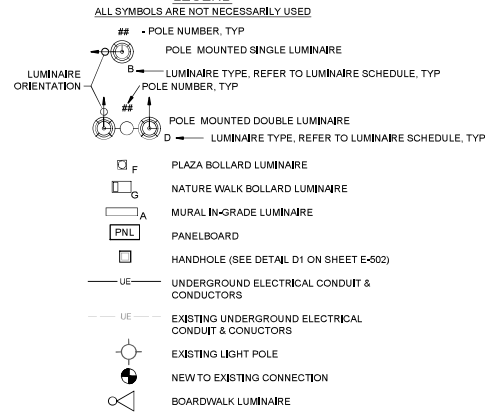
ABBREVIATIONS

ALL ABBREVIATIONS ARE NOT NECESSARILY USED

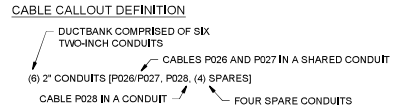
1P	SINGLE POLE, OR AS INDICATED	KV	KILOVOLT
2P	TWO POLE, OR AS INDICATED	KVA	KILOVOLT AMPERE
3P	THREE POLE, OR AS INDICATED	KW	KILOWATT
A	AMPERES	LTG	LIGHTING
AC	ALTERNATING CURRENT	LV	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERES INTERRUPTING CAPACITY	MCC	MOTOR CONTROL CENTER
AM	AMPERAGE METER/AMMETER	MECH	MECHANICAL
AS	AMPERE SWITCH	MLO	MAIN LUG ONLY
AWG	AMERICAN WIRE GAUGE	MV	MEDIUM VOLTAGE
BD	BOARD	N/A	NOT APPLICABLE (N/A)
CAT NO.	CATALOG NUMBER	NC	NORMAL CLOSED
C. CND	CONDUIT	NEUT	NEUTRAL WIRE
CATV	CABLE TELEVISION	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NO	NORMAL OPEN
CKT	CIRCUIT	NTS	NOT TO SCALE
CO	CONDUIT ONLY	OC	ON CENTER
COMM	COMMUNICATIONS	P	POLE
CONC	CONCRETE	PB	PULL BOX
CONT	CONTINUATION	PC	PHOTOCELL
CONV	CONVEYOR	PH.Ø	PHASE
CPT	CURRENT POWER TRANSFORMER	PNL, PNBD	PANEL, PANELBOARD
CT	CURRENT TRANSFORMER	PVC	POLYVINYL CHLORIDE
DC	DIRECT CURRENT	PVMT	PAVEMENT
DIA	DIAMETER	RECEPT	RECEPTACLE
DWG	DRAWING	REINF	REINFORCED
EC	EMPTY CONDUIT	SC	SHORT CIRCUIT
EL, ELEV	ELEVATION	SCH	SCHEDULE
ELEC	ELECTRIC/ELECTRICAL	SPD	SURGE PROTECTION DEVICE
EX, EXIST	EXISTING, EXIST'G	SS	STAINLESS STEEL
G, GND	GROUND	SWBD	SWITCHBOARD
GC	GROUND CHECK	SWGR	SWITCHGEAR
GF	GROUND FAULT	TEL	TELEPHONE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GFM	GROUND FAULT MONITOR	UL	UNDERWRITERS LABORATORIES
HP	HORSE POWER	V	VOLT
HTR	HEATER	VERT	VERTICAL
Hz	HERTZ, CYCLES PER SECOND	VM	VOLT METER
INST	INSTRUMENT, INSTRUMENTATION	VS	VOLT SWITCH
IT	INFORMATION TECHNOLOGY	W	WATT, WIRE
JBOX	JUNCTION BOX	WP	WEATHER PROOF
KCMIL	THOUSAND CIRCULAR MILS	XFMR	TRANSFORMER
KWH	KILOWATT HOUR		

LEGEND

ALL SYMBOLS ARE NOT NECESSARILY USED



CABLE CALLOUT DEFINITION



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Rev.	Description	Date	Rev.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL NOTES, LEGEND & ABBREVIATIONS

Date: 2024-10-08 | Rev. REVISIO
Designed by: RES | MBA Project No. 221315-02
Drawn by: DJA | Checked by: DJS
Reviewed by: DAW | Checking code:
Submitted by: MARK FIRELLO MCPHATT & NICHOL | Drawing Scale: AS SHOWN | Plot scale: 1:1 (0 SHEET)

mcPhatt & Nichol
4700 FALLS OF NEUSE RD. SUITE 300 RALEIGH, NC 27609 919-341-8400 NC FIRM LICENSE NO. F-0105

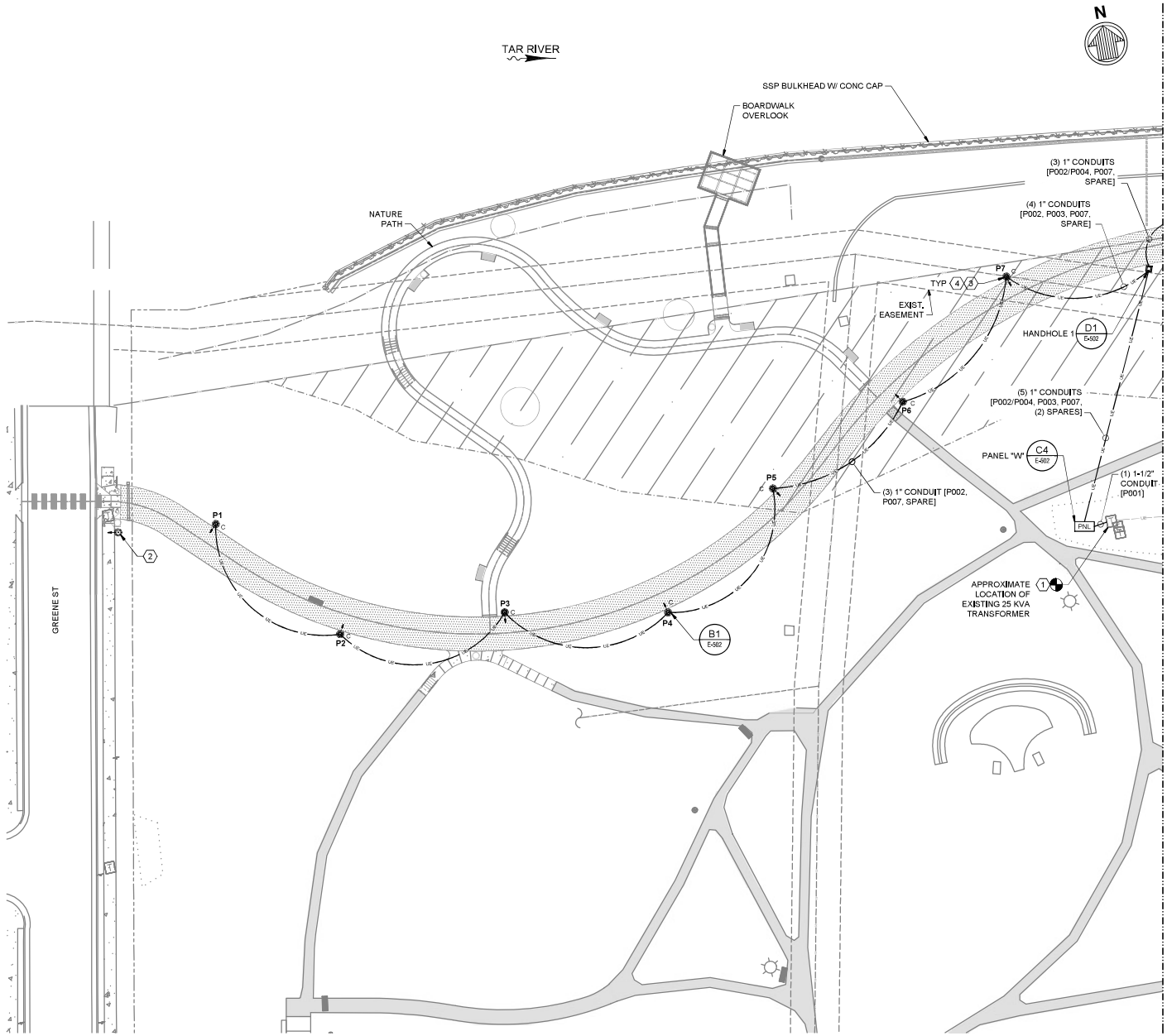
THE EARTH GROUP NC ENGINEERING FIRM LICENSE NO. C-0299 NC LANDSCAPE FIRM LICENSE NO. C-437
330 EVANS ST GREENVILLE, NC 27858 252-758-2348
Geotechnical • Environmental • Construction Materials Testing

NORTH CAROLINA PROFESSIONAL SEAL 045324 ENGINEER DAVID A. WILLIS
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-001
INDEX. 106 OF 114

File: Q:\RA\221315-02\00 CADD\ Active\ Greenville Town Commons\221315-02E-001 - Plotted: 2/10/2025 8:47 AM by AUCOIN, DAVID - Saved: 2/7/2025 2:13 PM by DAUCOIN



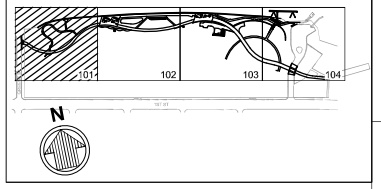
GENERAL NOTES

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

Rev.	Date	Description	Chk'd

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
1 OF 4 (BASE BID)

Date: 2024-10-08 Rev. REVISIONS
Designed by: RES
Drawn by: DJA
Checked by: DJS
Reviewed by: DAW
MBA Project No. 221315-02
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)
Submitted by: MARK FERRELLO MOFFATT & NICHOL

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

moffatt & nichol

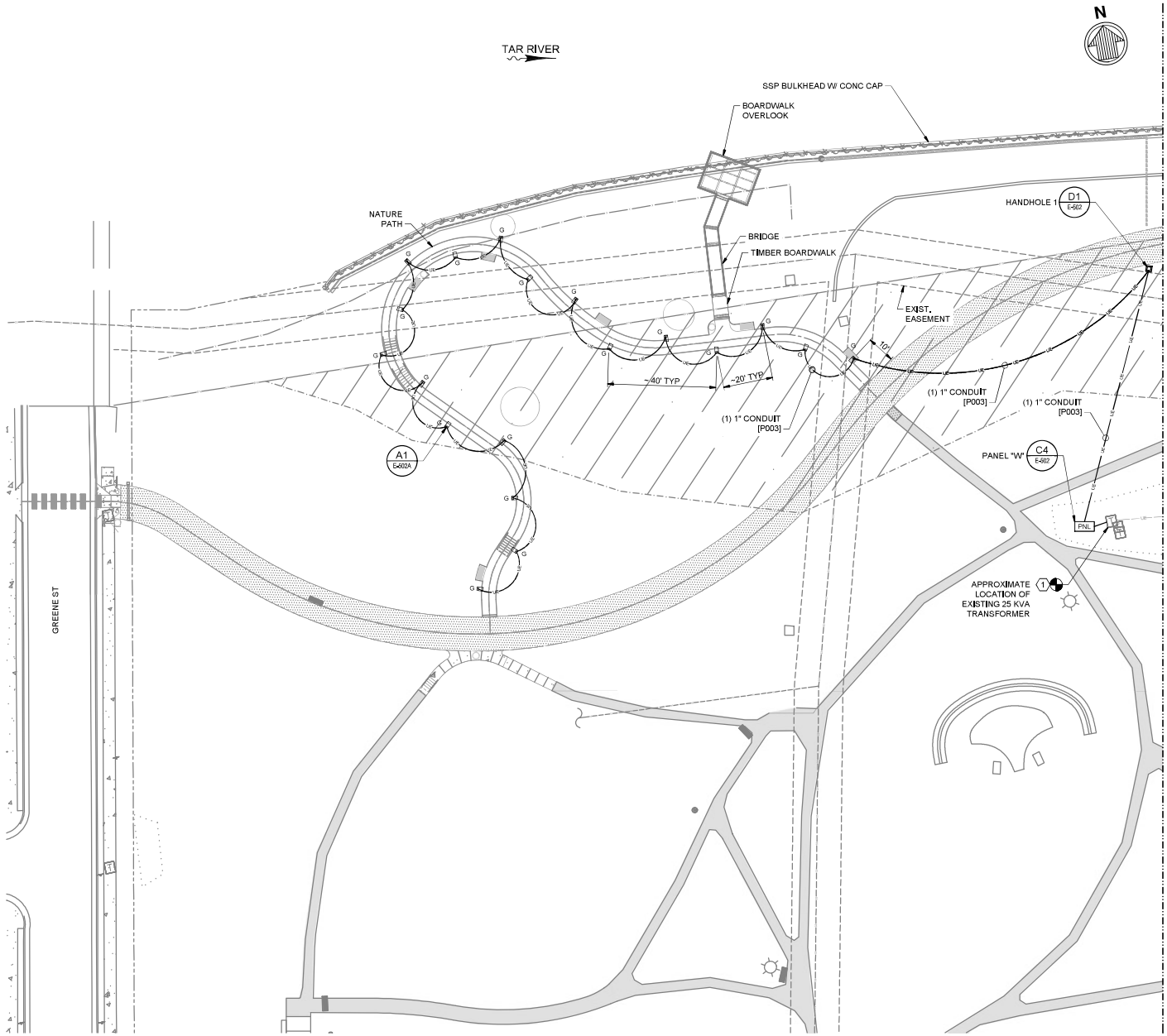
THE EAST GROUP
320 EVANS ST
GREENVILLE, NC 27834
252-758-3456
NC ENGINEERING FIRM LICENSE NO. C-0209
NC LANDSCAPE FIRM LICENSE NO. C-427
Civil Engineering • Land Planning • Land Development

NORTH CAROLINA PROFESSIONAL SEAL 045145 DAVID A. WILLIS JR.
SEAL 02/07/2025

Sheet Reference No.
E-101
INDEX: 107 OF 114

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

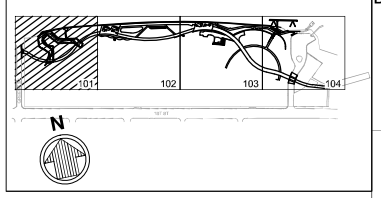
File: Q:\RA\221315-02\00 CADD_Active_Greenville Town Commons\221315-02E-101.dwg Plotted: 2/10/2025 8:47 AM by AUCOIN, DAVID Saved: 2/7/2025 4:37 PM by DAUCOIN



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	Rev.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
1 OF 4 (BID ADD 2)

Date: 2025-02-12 Rev. REVNO
Designed by: RES
Drawn by: DJA
Checked by: DJS
MBR Project No. 22131-502
Reviewed by: DAW
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 SHEET)
Submitted by: MARK PIRRELLO MOFFATT & NICHOL

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

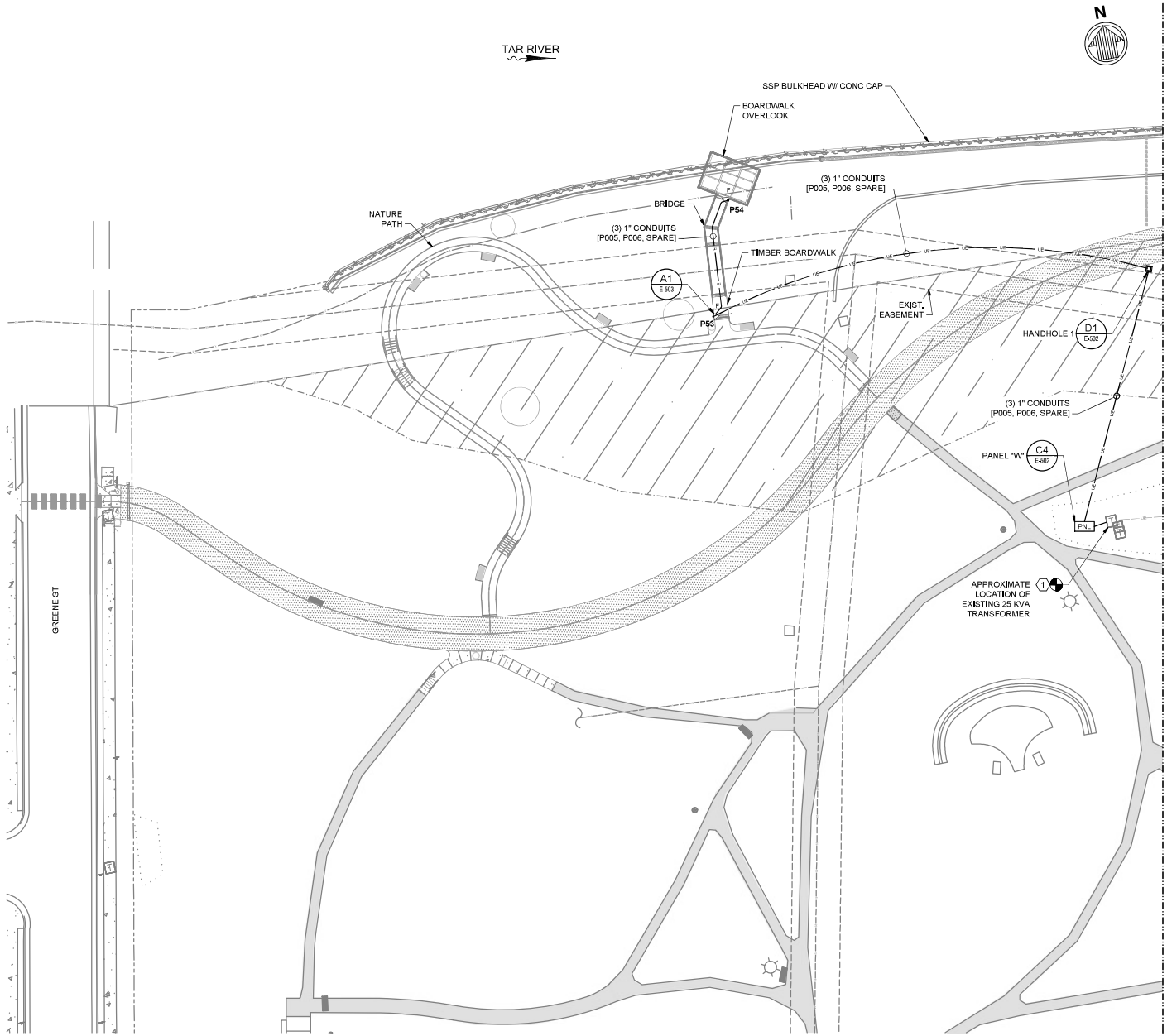
THE EAST GROUP
330 ELKINS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-1246
NC ENGINEERING FIRM LICENSE NO. C-0200
NC LANDSCAPE FIRM LICENSE NO. C-427

NORTH CAROLINA PROFESSIONAL SEAL 049 DAVID A. WILLIS
SEAL 02/07/2025

Sheet Reference No.
E-101A
INDEX: 107A OF 114

File: Q:\RA\22131-02\00 CADD_Active_Greenville Town Commons\22131-02E-101A.rvt Plotted: 2/10/2025 9:16 AM by AUCOIN, DAVID Saved: 2/10/2025 9:16 AM by DAUCOIN

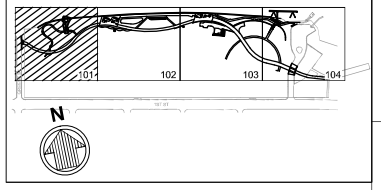
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



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

Rev.	Date	Description	Initials

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN
1 OF 4 (BID ADD 3)

Date: 2025-07-12 Rev. REVNO
Designed by: RES
Drawn by: DJA
Checked by: DJS
MBA Project No. 221315-02
Reviewed by: DAW
Drawing code:
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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
320 EVANS ST
GREENVILLE, NORTH CAROLINA 27834
252-758-1436
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
Civil Engineering • Land Planning • Land Surveying

Submitted by: MARK PIRRELLO
MOFFATT & NICHOL

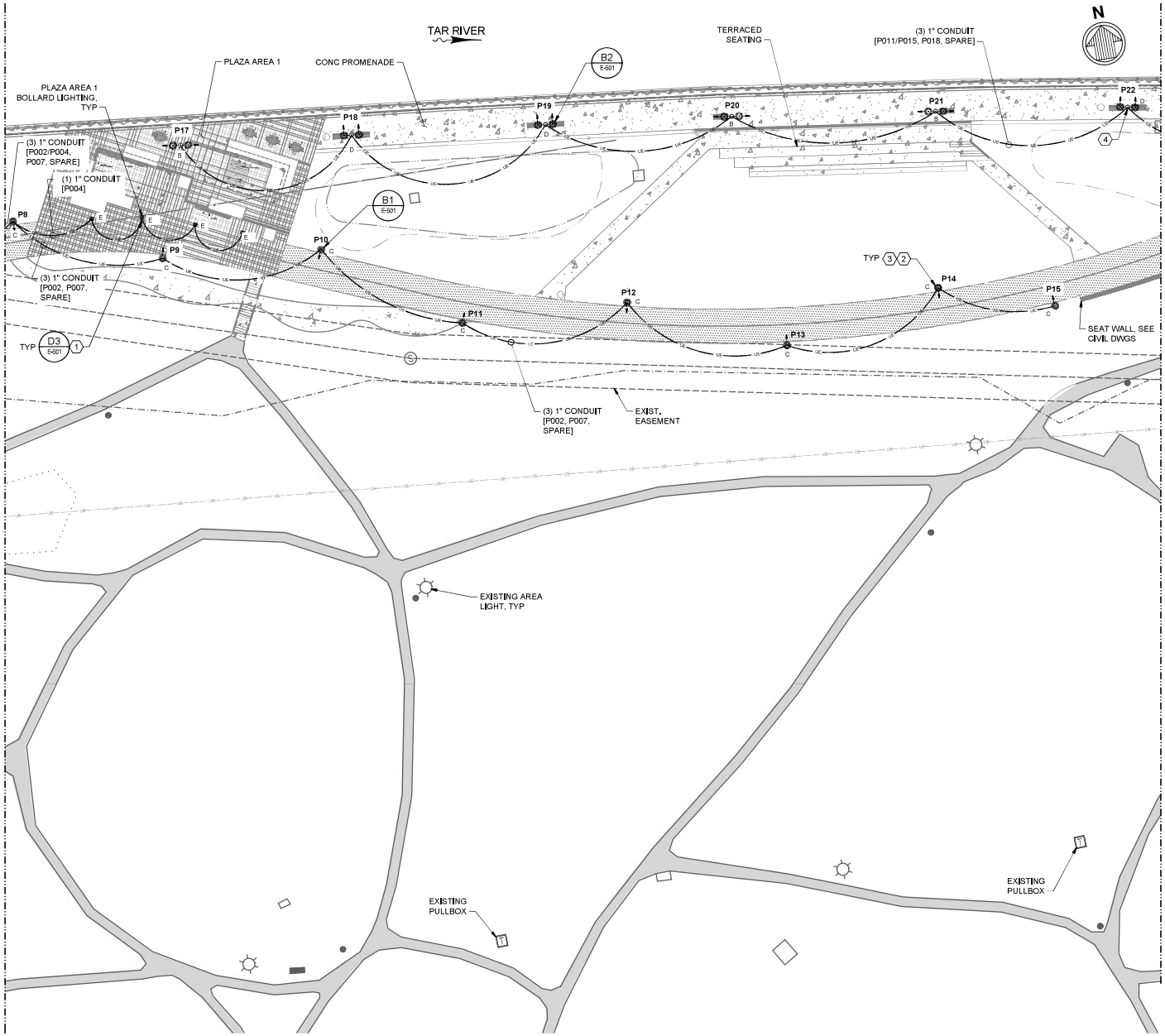
NORTH CAROLINA PROFESSIONAL SEAL 045 ENGINEER DAVID A. WILLIS
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-101B
INDEX: 107B OF 114

File: Q:\RA\221315-02\00 CADD_Active_Greenville Town Commons\221315-02E-101B.dwg, Plotted: 2/10/2025 8:47 AM, by AUCOW, DAVID, Saved: 2/10/2025 8:45 AM, by DAUCOW

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



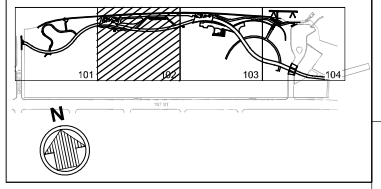
GENERAL NOTES

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

Rev.	Date	Description	Chk'd

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN 2 OF 4

Date: 2024-04-26 | Rev. REVISIO
Designed by: RES | MBH Project No. 221315-02
Drawn by: DJA | Checked by: DJS | Drawing code:
Reviewed by: DMW | Submitted by: MARK FRIBELLO MOFFATT & NICHOL | Drawing Scale: AS SHOWN | Plot scale: 1:1 (0 SHEET)

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

THE EAST GROUP
330 EVANS ST GREENVILLE, NC 27858 252-758-3746
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-437

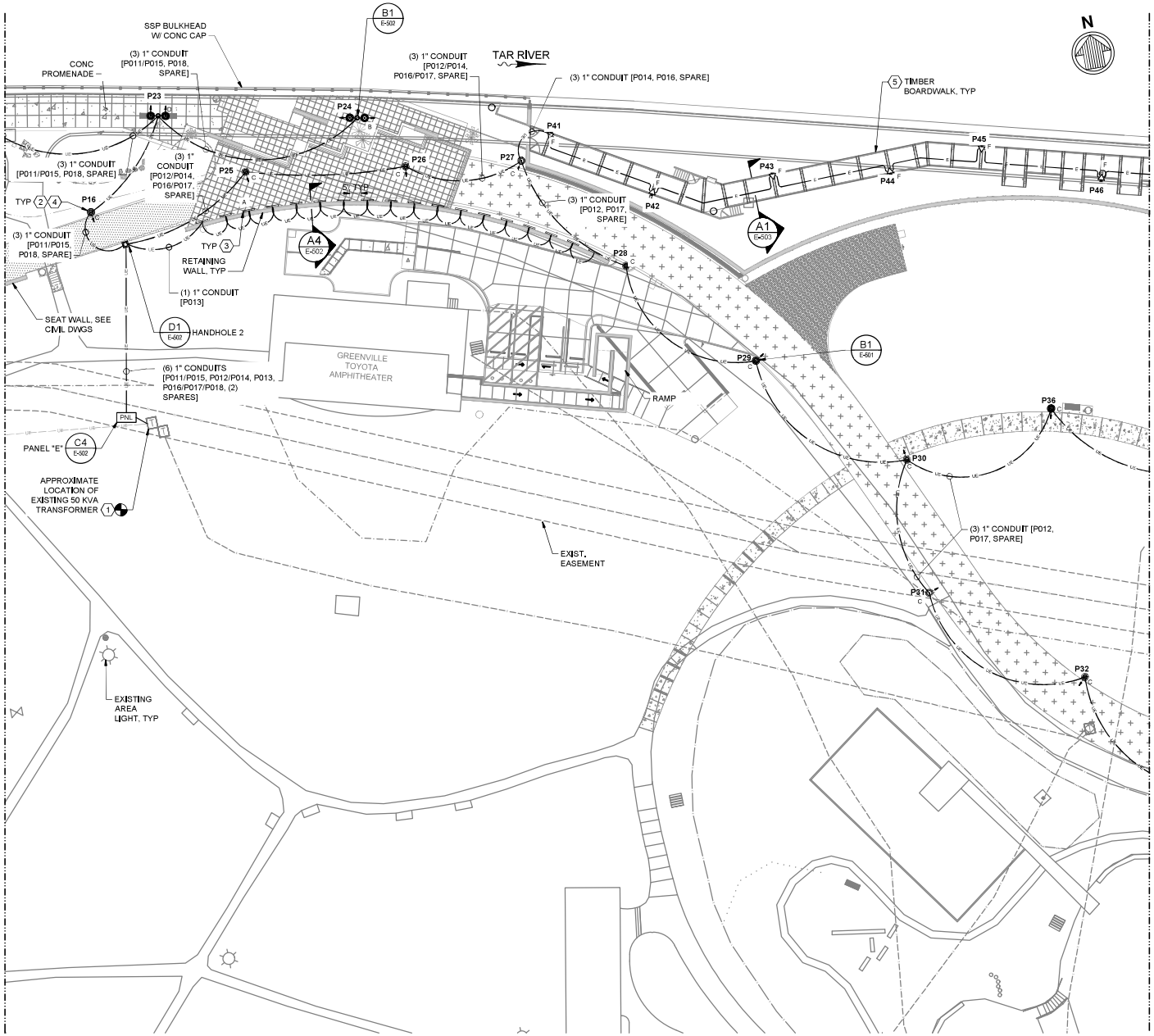
NORTH CAROLINA PROFESSIONAL SEAL 049116 DAVID A. WILLIS
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-102
INDEX: 108 OF 114

File: Q:\RA\221315-02\00 CADD_Active_Greenville Town Commons\221315\02E-102 - Plotted: 2/10/2025 8:48 AM by AUCOIN, DAVID - Saved: 2/7/2025 4:33 PM by DAUCOIN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



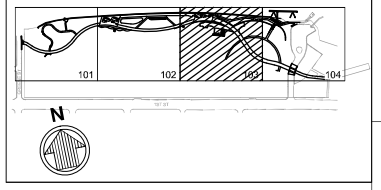
GENERAL NOTES:

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

Rev.	Date	Description	Dwn.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN 3 OF 4

Designed by: RES | Date: 2024-04-09 | Rev. REVNO
Drawn by: DJA | Checked by: DJS | MBA Project No. 221315-02
Reviewed by: DAW | Drawing Looks
Submitted by: MARK PIRELLO 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

THE CAUP GROUP
330 EVANS ST GREENVILLE, NC 27858 252-758-2456
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
Civil Engineering • Land Planning • Surveying

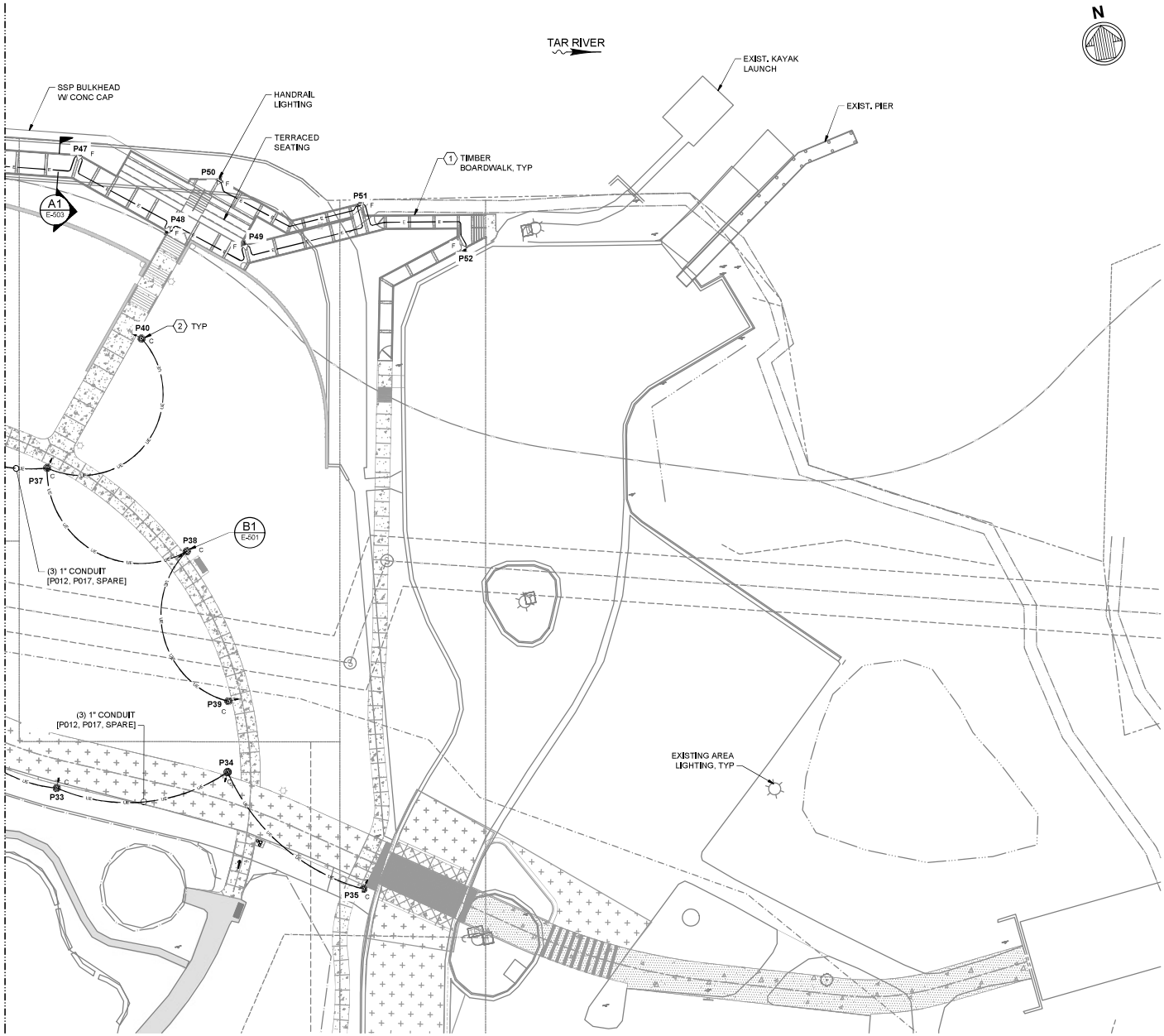
NORTH CAROLINA PROFESSIONAL SEAL 049104 DAVID A. WILLIS JR.
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-103
INDEX: 109 OF 114

File: Q:\RALE\221315-02\00 CADD_Active_Greenville Town Commons\221315-02E-103.dwg Plotted: 2/10/2025 8:48 AM by AUCOIN, DAVID Saved: 2/7/2025 4:38 PM by DAUCOIN

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



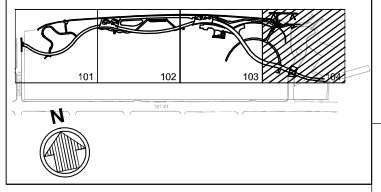
GENERAL NOTES:

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

Rev.	Date	Description	Rev.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL PLAN 4 OF 4

Date: 2024-04-09 | Rev. REVISIO

Designed by: RES | Drawn by: DJA | Checked by: DJS

Reviewed by: DAW | Submitted by: MARK PIRELLO MOFFATT & NICHOL

MBN Project No. 221315-02

Drawing code:

Drawing Scale: AS SHOWN

Plot scale: 1:1 (0 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
330 EVANS ST
GREENVILLE, NC 27858
252-758-2456
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
Civil Engineering • Land Surveying • Geotechnical • Environmental

NORTH CAROLINA PROFESSIONAL SEAL 045141 DAVID A. WILLIS JR.

SEAL 02/07/2025

SEAL

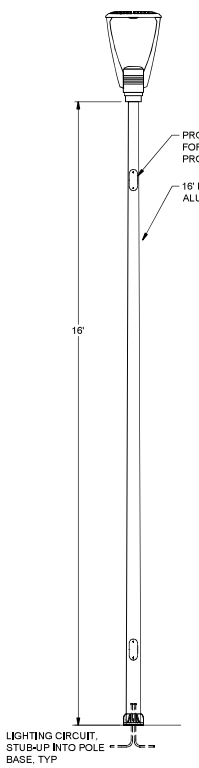
Sheet Reference No.

E-104

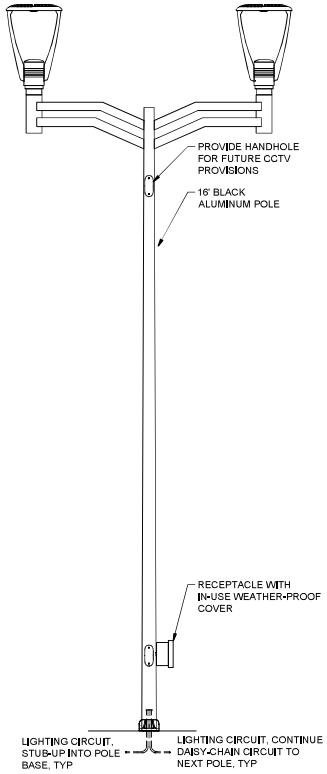
INDEX: 110 OF 114

File: Q:\RA\221315-02\07 CADD_Active_Greenville Town Commons\221315-02E-104 - Plotted: 2/10/2026 8:48 AM by AUCOIN, DAVID - Saved: 2/7/2026 1:29 PM by DAUCOIN

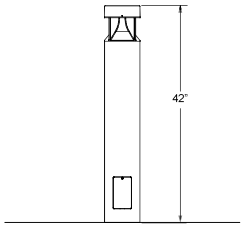
DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING



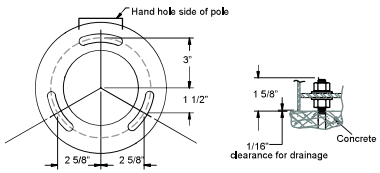
B1 E-501 DETAIL - SINGLE LUIMINAIRE
SCALE: NTS



B2 E-501 DETAIL - DOUBLE LUMINAIRE
SCALE: NTS

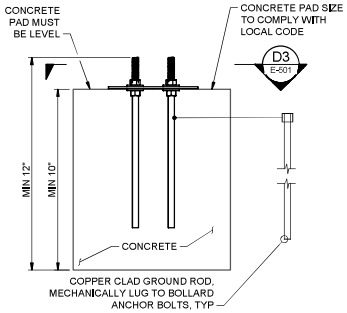


MOUNTING INFORMATION:
NOTES:
1. BOLLARD ORIENTATION IS CRITICAL, ROD AND HAND HOLE LOCATIONS ARE CRITICAL.
2. LOCATE SINGLE BOLT AND HAND HOLE LOCATION.
3. ADEQUATE DRAINAGE MUST BE PROVIDED IN CONCRETE FOUNDATION.
4. CONDUIT SHOULD BE STUBBED UP ABOVE THE CONCRETE FOOTING.



USE CAUTION WHEN SETTING ANCHOR BOLTS. BOLTS MUST BE VERTICALLY STRAIGHT AND CENTERED ON DIMENSIONS SHOWN.

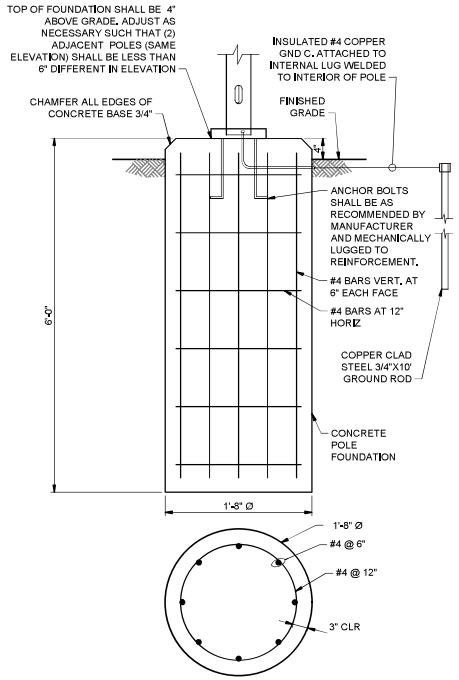
D3 E-501 DETAIL - LIGHTED BOLLARD
SCALE: NTS



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Dwn.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL DETAILS 1 OF 3

Rev. 2025-02-06 REVISIONS
Date: 2023-12-20
MBA Project No. 323115-02
Designed by: RES
Drawn by: DJA
Checked by: DJS
Reviewed by: DAW
Drawing code:
Drawing Scale: AS SHOWN
Submitted by: MARK PIRELLO MOFFATT & NICHOL
Plot scale: 1:1 (0 SHEET)

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

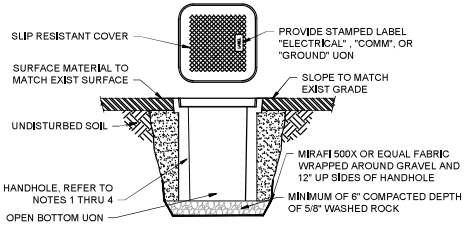
THE CAGLE GROUP
320 EVANS ST GREENVILLE, NC 27834 252-758-2456
NC ENGINEERING FIRM LICENSE NO. C-0299
NC LANDSCAPE FIRM LICENSE NO. C-427
Planning • Landscape Architecture • Transportation • Surveying

NORTH CAROLINA PROFESSIONAL SEAL 040146 ENGINEER DAVID A. WILLIS JR.
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-501
INDEX: 111 OF 114

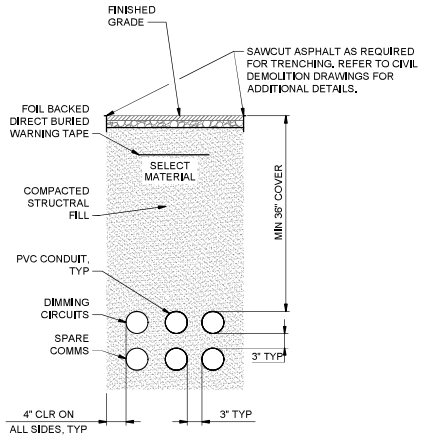
File: Q:\RA\2\2313-02\20 CADD\ Active\ Greenville Town Commons\2313-02CE-501 - Plotted: 2/10/2025 8:49 AM by AUCOIN, DAVID - Saved: 1/29/2025 4:12 PM by DAUCOIN



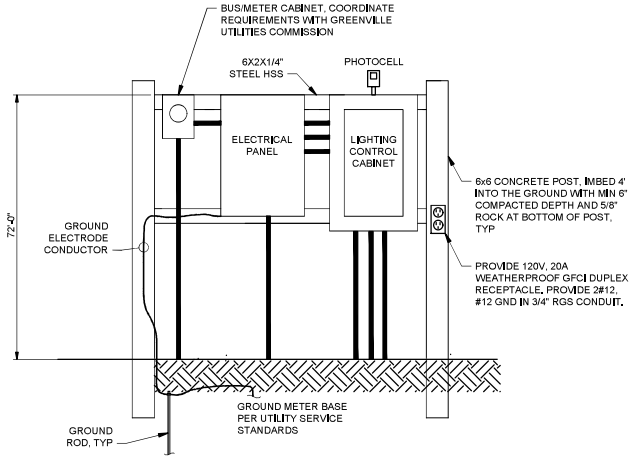
NOTES:

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

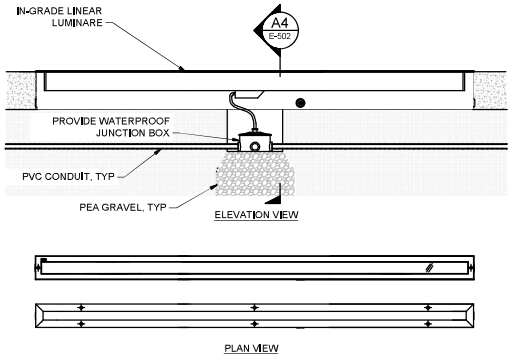


ELEVATION

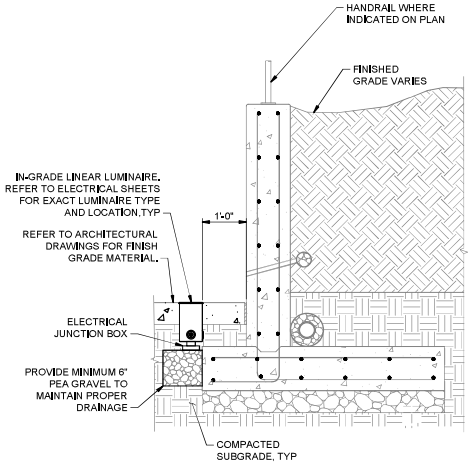
NOTES

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



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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Date	Description	Rev.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL DETAILS 2 OF 3 (BASE BID)

Designed by: RES
Date: 2024-09-06
Rev.: REV NO
Own by: DLA
Drawn by: DJS
MBN Project No. 221315-02
Reviewed by: DAW
Drawing code:
Drawing Scale: AS SHOWN
Submitted by: MARK FIRRELLO
MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

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

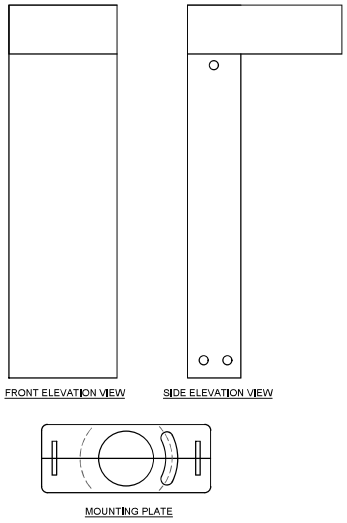
THE LEST GROUP
Engineers • Surveyors • Land Planners
Eric Evans, P.E.
GREENVILLE, NC 27834
252-756-7366
NC ENGINEERING FIRM LICENSE NO. C-0205
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 045 DAVID A. WILLIS, JR. Civil
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-502
INDEX: 112 OF 114

File: Q:\R\221315-02\01 CADD_Active_Greenville Town Common\221315002E-502 - Plotted: 2/10/2025 8:48 AM by: ALCOX, DAVID, Saved: 2/10/2025 8:46 AM by: RSNIDER



A1 E-101 DETAIL - NATURE WALK LUMINAIRE
SCALE: NTS
E-103

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

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

Greenville NORTH CAROLINA

Date	Description	Rev.

GREENVILLE TOWN COMMON & EXPLANADE PROJECT

ELECTRICAL DETAILS 2 OF 3 (BID ADD 2)

Designed by: RES
Date: 2024-07-12
Rev.: REV NO
Dwn by: DLA
Ckd by: DJS
MBN Project No.: 22131-L02
Drawing code:
Reviewed by: DAW
Submitted by: MARK FIRRELLO, MOFFATT & NICHOL
Drawing Code: ALS (SHOWN)
File scale: 1:1 (SI SHEET)

moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-2105

THE LEGEST GROUP
Engineering • Surveying • Land Planning
DBA THE LEGEST GROUP
GREENVILLE, NC 27834
252-756-3240
NC ENGINEERING FIRM LICENSE NO. C-2705
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 045182 ENGINEER DAVID A. WILLIS
SEAL 02/07/2025

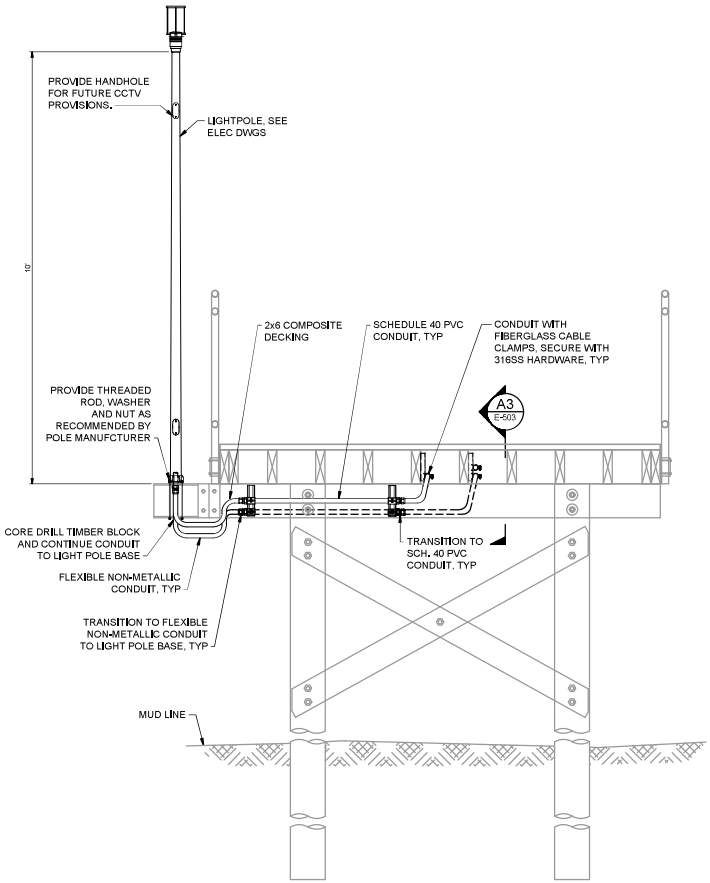
SEAL

Sheet Reference No.
E-502A
INDEX: 112A OF 114

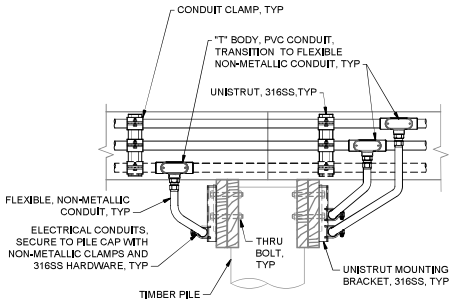
File: Q:\R\22131-02\07 CADD_Kidwell_Greenville Town Common\22131L02E-502A, Plotted: 2/10/2025 8:49 AM by ALCOW, DAWD, Saved: 1/29/2025 4:08 PM by DAWDCOW

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

Date	Description	Rev.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL DETAILS 3 OF 3 (BID ADD 3)

Date: 2024-07-12 | Rev. REV NO
MBN Project No. 221315-02
Drawing code:
Drawing Code: AS SHOWN
Plot scale: 1:1 (D SHEET)

Designed by: RES
Dwn by: DLA
Ckd by: DJS
Reviewed by: DAW
Submitted by: MARK FIRRELLO MOFFATT & NICHOL

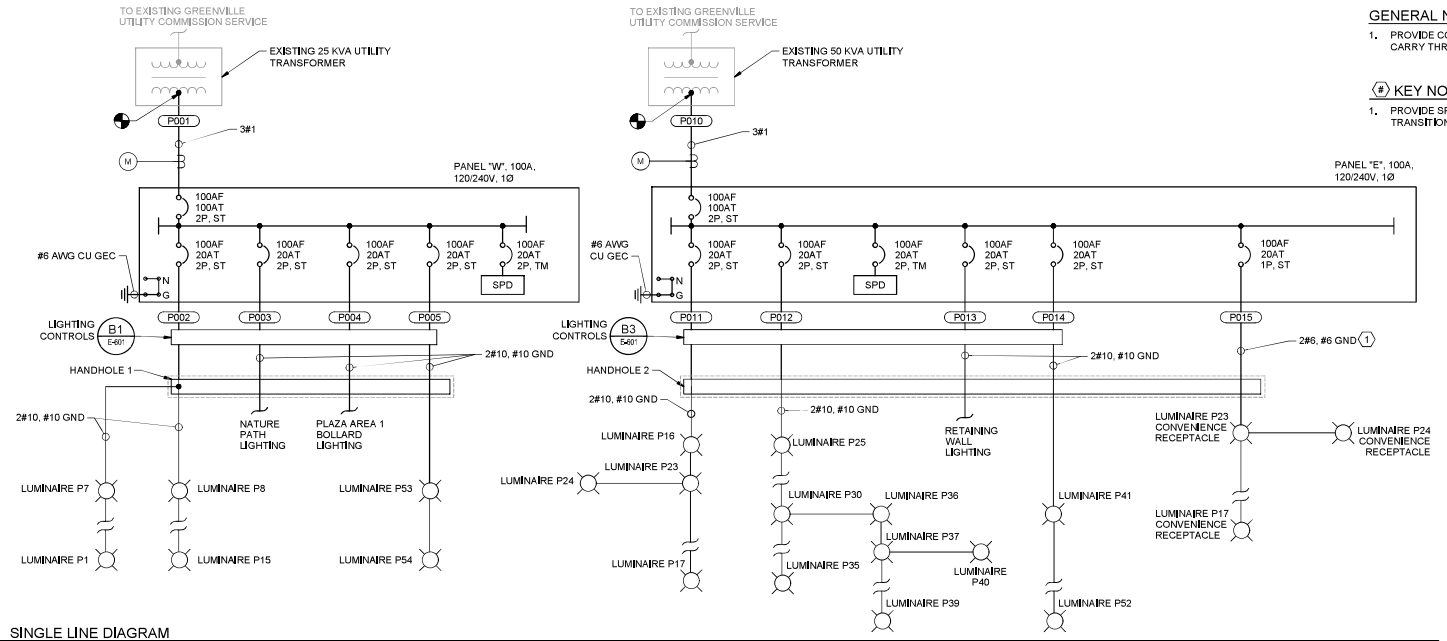
moffatt & nichol
4700 FALLS OF NEUSE RD, SUITE 300
RALEIGH, NC 27609
NC FIRM LICENSE NO. C-245105

THE LEWIS GROUP
Engineers • Surveyors • Planners • Landscape Architects
EVA EVANS C
GREENVILLE, NC 27834
252-756-2481
NC ENGINEERING FIRM LICENSE NO. C-2295
NC LANDSCAPE FIRM LICENSE NO. C-437

NORTH CAROLINA PROFESSIONAL SEAL 045215 DAVID A. WILLIS, JR.
SEAL
02/07/2025

Sheet Reference No.
E-503
INDEX: 112B OF 114

File: Q:\R\221315-02\07 CADD_Kittrell_Greenville Town Common\221315002E-503 - Plotted: 2/10/2025 8:48 AM By: AUCOIN, DAVID, Saved: 2/10/2025 9:15 AM By: RERNER



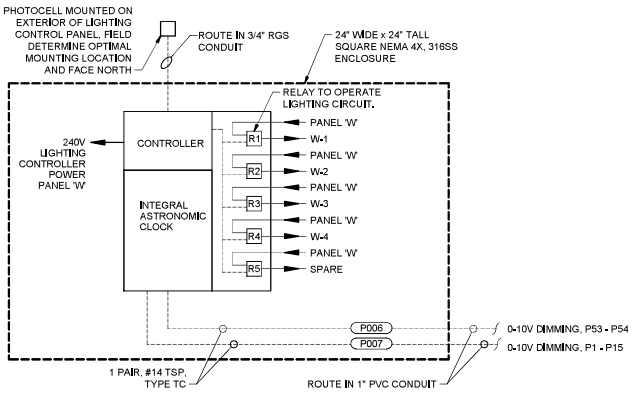
C1 E-601 SINGLE LINE DIAGRAM
SCALE: NTS

GENERAL NOTES:

1. PROVIDE CONDUCTOR SIZE INDICATED ON SINGLE LINE AND CARRY THROUGH THE WHOLE CIRCUIT, UON.

(#) KEY NOTES:

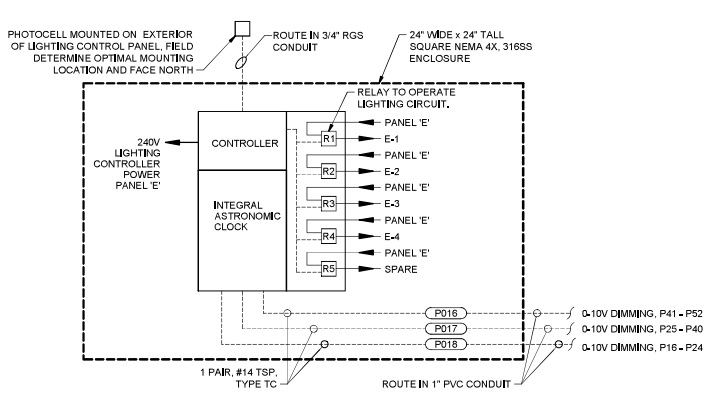
1. PROVIDE SPLICE AT EACH CONVENIENCE RECEPTACLE AND TRANSITION TO 2#12, #12 GND FOR RECEPTACLE TERMINATION.



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

DRAWING SCALES SHOWN BASED ON 24"X36" DRAWING

Greenville NORTH CAROLINA

Rev.	Date	Description	Dwn.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

SINGLE LINE DIAGRAMS & SCHEDULES

Date: 2024-04-26 Rev. REVNO
Designed by: RES
Drawn by: DJA
Reviewed by: DAW
MBR Project No. 221315-02
Drawing code:
Submitted by: MARK FIRELLO MOFFATT & NICHOL
Drawing Scale: AS SHOWN
Plot scale: 1:1 (0 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-0299 NC LANDSCAPE FIRM LICENSE NO. C-437 330 EVANS ST GREENVILLE, NC 27858 252-758-3746 Engineering • Surveying • Landscape Architecture

NORTH CAROLINA PROFESSIONAL SEAL 045 DAVID A. WILLIS
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-601
INDEX: 113 OF 114

File: Q:\RA\221315-02\00 CADD_Active_Greenville Town Commons\221315-02E-601 - Plotted: 2/10/2025 8:49 AM by AUCOIN, DAVID - Saved: 2/7/2025 2:07 PM by DAUCOIN

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) LTS	PED	MECH	MISC	OCP AMPS	P		OCP AMPS	P	CONNECTED LOAD (VA) LTS	PED	MECH	MISC	DESCRIPTION	CKT NO.
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			
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

NOTES: INCLUDE SPD

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) LTS	PED	MECH	MISC	OCP AMPS	P		OCP AMPS	P	CONNECTED LOAD (VA) LTS	PED	MECH	MISC	DESCRIPTION	CKT NO.
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			
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

NOTES: INCLUDE SPD
* BID ADDITIVE 2
** BID ADDITIVE 3

A3 E-602 PANEL SCHEDULE 'W'
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

Rev.	Date	Description	Rev.

GREENVILLE TOWN COMMON & ESPLANADE PROJECT

ELECTRICAL SCHEDULES

Rev. REVISIONS
Date: 2024-04-26
MBA Project No. 221315-02
Drawing Code:
Drawing Scale: AS SHOWN
Plot Scale: 1:1 (0 SHEET)

Designed by: RES
Drawn by: DJS
Checked by: DJA
Reviewed by: DMW
Submitted by: MARK BRIELLO MOFFATT & NICHOL

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

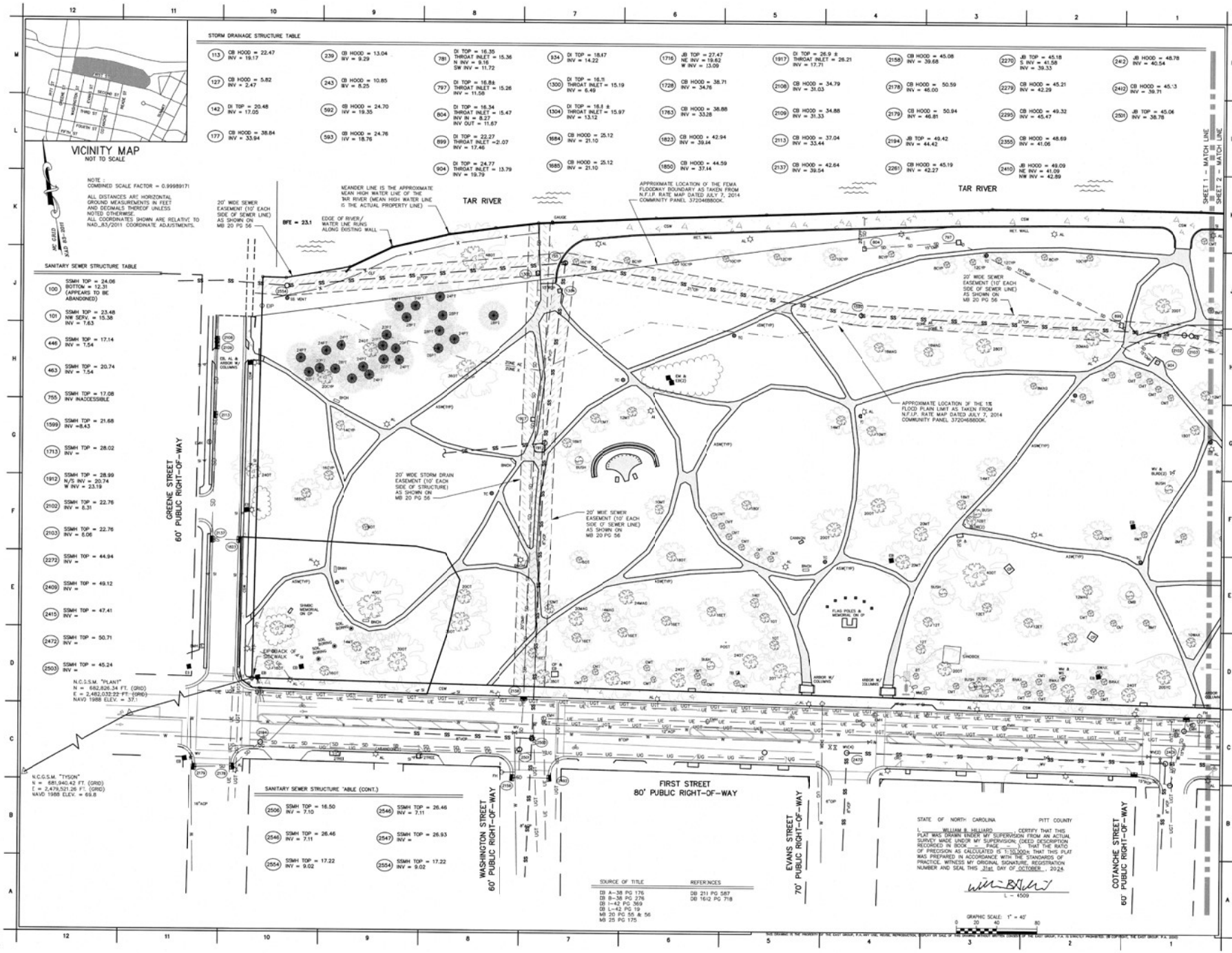
THE EAST GROUP
NC ENGINEERING FIRM LICENSE NO. C-0208
NC LANDSCAPE FIRM LICENSE NO. C-437
330 EVANS ST
GREENVILLE, NC 27858
252-758-3746

NORTH CAROLINA PROFESSIONAL SEAL 041146 ENGINEER DAVID A. WILLIS
SEAL 02/07/2025

SEAL

Sheet Reference No.
E-602
INDEX: 114 OF 114

File: Q:\RA\221315-02\00 CADD_Active_Greenville Town Common\221315-02E-602 - Plotted: 2/10/2026 8:30 AM by AUCOIN, DAVID - Saved: 2/7/2026 2:07 PM by DAUCOIN



SEAL

NORTH CAROLINA PROFESSIONAL SEAL L-4509 LAND SURVEYOR WILLIAM B. HILLIARD

10/31/2024

SEAL

LEGEND

EOM = 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
= NOT TO SCALE
= NO POINT SET
E = OVERHEAD ELECTRIC
SS = SEWER LINE
SD = STORM DRAIN
UC = UNDERGROUND CABLE
UGT = UNDERGROUND TELECOMMUNICATONS
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 JLY 7, 2014 COMMUNITY PANEL 3720468600K; 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. MONTAGUE, ETC".
8) UNDERGROUND UTILITES 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
1	9/8/23	UPDATED LOCATION & TOPO SURVEY	WBH
1	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

3, Evans St., Greenville, NC 27834 252-758-3746, 252-830-2664 (Fax)

PROJECT TITLE

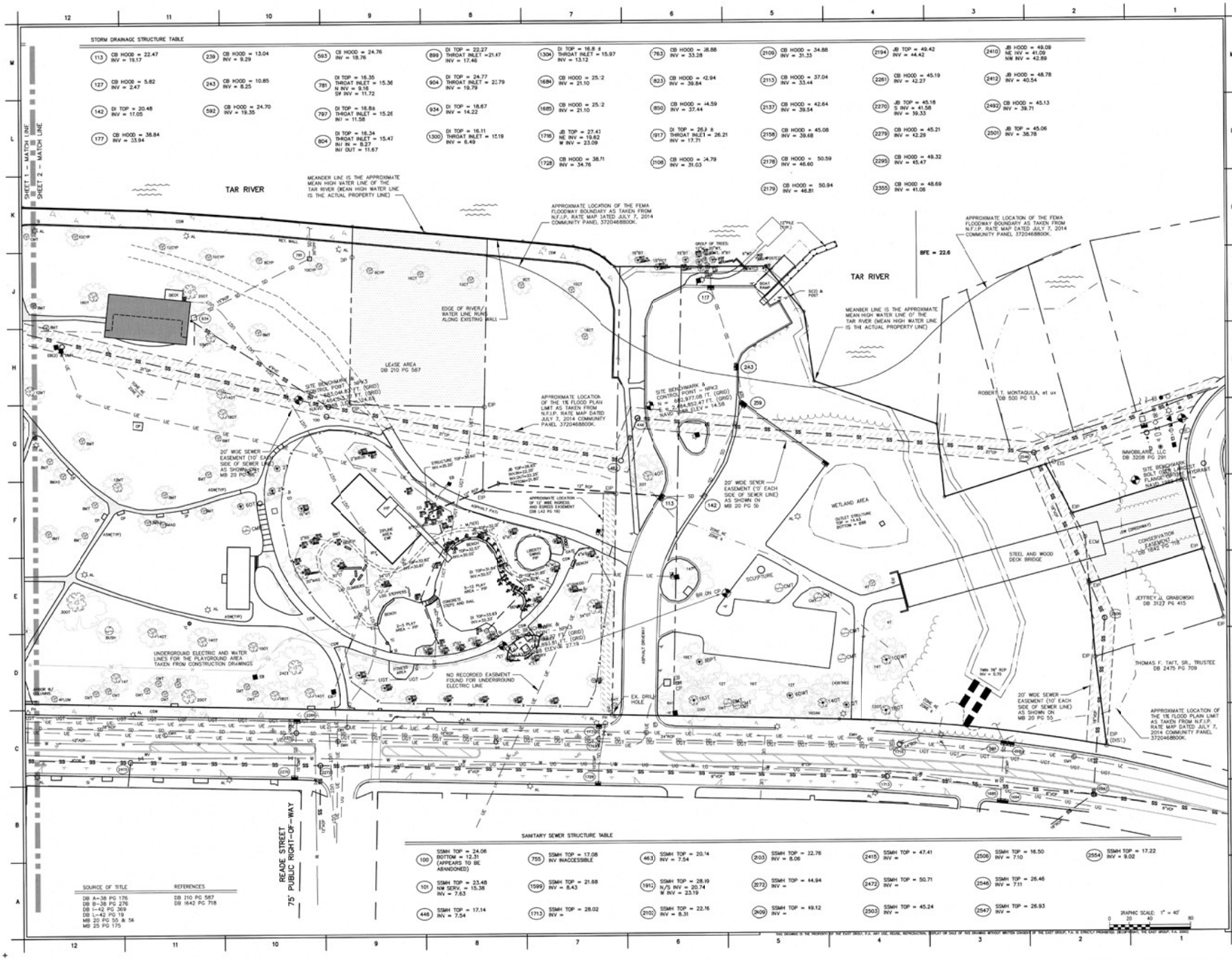
CITY OF GREENVILLE
TOWN COMMONS

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: WBH	DRAWING NO.: SU1
APPROVED:	
PROJECT NO.: 20150253	



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 =21.47 INV = 17.46	1304 DI TOP = 16.8 & THROAT INLET = 15.97 INV = 13.12	763 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
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 = 21.79 INV = 19.79	1684 CB HOOD = 25.2 INV = 21.10	823 CB HOOD = 42.94 INV = 39.84	2113 CB HOOD = 37.04 INV = 33.44	2281 JB HOOD = 45.19 INV = 42.27	2412 JB HOOD = 48.78 INV = 40.54
142 DI TOP = 20.48 INV = 17.05	592 CB HOOD = 24.70 INV = 19.35	797 DI TOP = 16.84 THROAT INLET = 15.26 INV = 11.58	934 DI TOP = 18.67 INV = 14.22	1685 CB HOOD = 25.2 INV = 21.10	850 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
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 = 27.41 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	2279 CB HOOD = 45.21 INV = 42.29	2501 JB TOP = 45.06 INV = 38.78
				1728 CB HOOD = 38.71 INV = 34.76	2108 CB HOOD = 34.79 INV = 31.03	2176 CB HOOD = 50.59 INV = 46.60	2295 CB HOOD = 49.32 INV = 45.47	
						2179 CB HOOD = 50.94 INV = 46.81	2355 CB HOOD = 48.69 INV = 41.06	

SANITARY SEWER STRUCTURE TABLE

100 SSMH TOP = 24.08 BOTTOM = 12.31 (APPEARS TO BE ABANDONED)	755 SSMH TOP = 17.08 INV INACCESSIBLE	463 SSMH TOP = 20.14 INV = 7.54	203 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	1915 SSMH TOP = 28.19 N/S INV = 20.74 W INV = 23.19	2072 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 = 22.16 INV = 8.31	2409 SSMH TOP = 69.12 INV =	2503 SSMH TOP = 45.24 INV =	2547 SSMH TOP = 26.93 INV =	

SOURCE OF TITLE	REFERENCES
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	DB 210 PG 587 DB 1642 PG 718

GRAPHIC SCALE: 1" = 40'

SEAL
NORTH CAROLINA PROFESSIONAL SEAL L-4509 LAND SURVEYOR WILLIAM B. HOLLAND
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 = MISTED/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
= NOT TO SCALE
= NO POINT JET
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 15, 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.

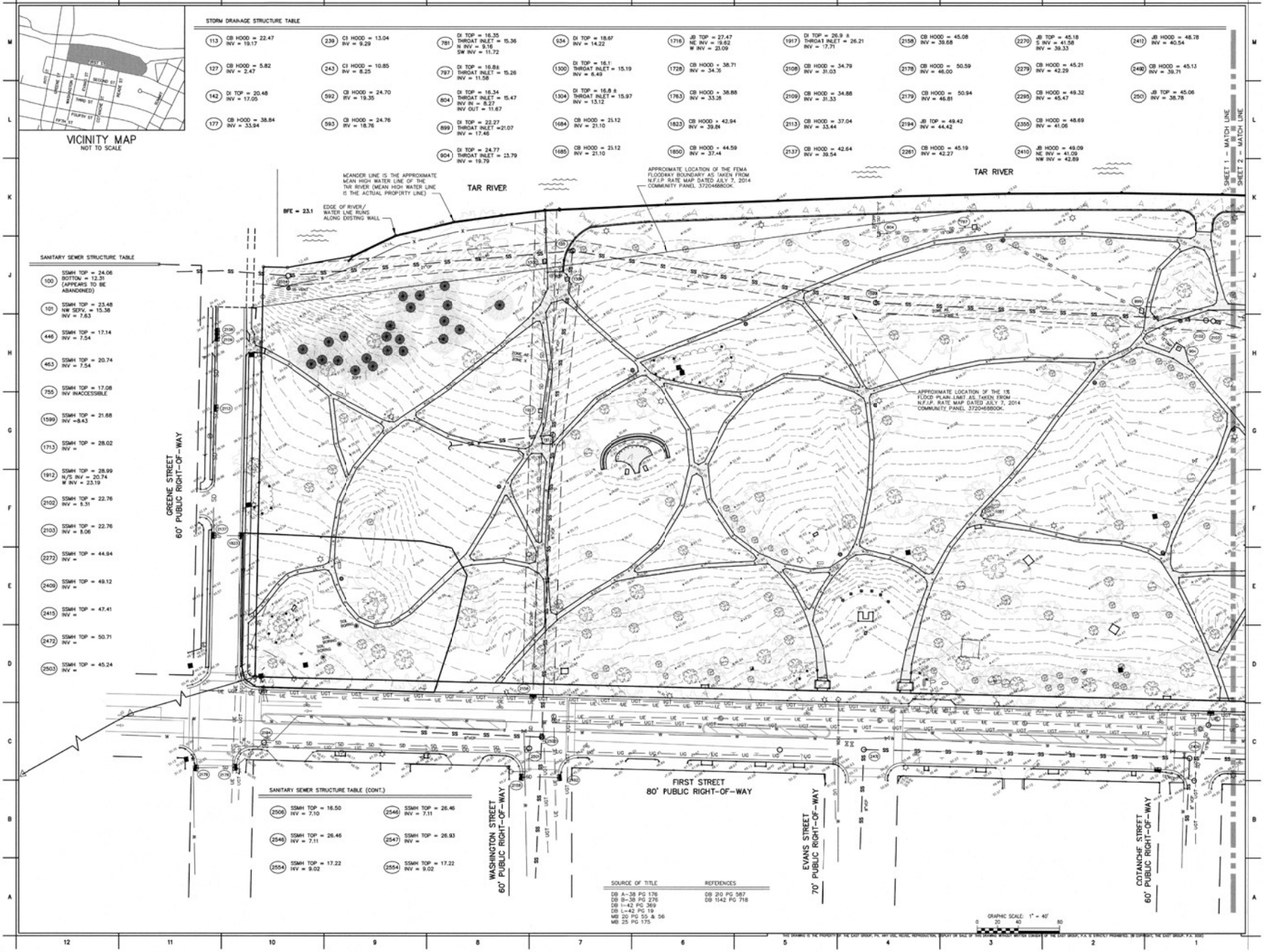
REV. NO.	DATE	REVISIONS	BY
3	9/8/23	UPDATED LOCATION & TOPO SURVEY	WBH
2	06/10/19	REVISED PROPERTY BOUNDARY	WBH
1	06/26/17	REVISED IMPOVEMENTS (PLAYGROUND AREA) TO SHEETS 2 AND 4	WBH

THE EAST GROUP, P.A.
•Engineering•Architecture•Surveying•Technology
5 Evans St., Greenville, NC 27834 252-758-2146, 252-830-3904 (Fax)

PROJECT TILE
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.: 2 OF 4	
CHECKED: WBH			
APPROVED:		DRAWING NO.: SU2	
PROJECT NO.: 20150253			



SEAL 10/31/2024 NORTH CAROLINA PROFESSIONAL SEAL L-4509 LAND SURVEYOR WILLIAM B. HALLIWELL

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
WRF = 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 DELINEAT; 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 UREA AS TAKEN FROM N.F.I.P. RATE MAP DATED JULY 7, 2014 COMMUNITY PANEL 3720466850K; BASE FLOOD ELEVATION (BFE) NOTED HEREON.
7) REFERENCE IS HEREBY MAIE 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	9/8/23	UPDATED LOCATION & TOPO SURVEY	WBH
2	06/10/19	REVISED PROPERTY BOUNDARY	WBH
1	06/26/17	REVISED IMPOVEMENTS (PLAYGROUND AREA) TO SHEETS 2 AND 4	WBH

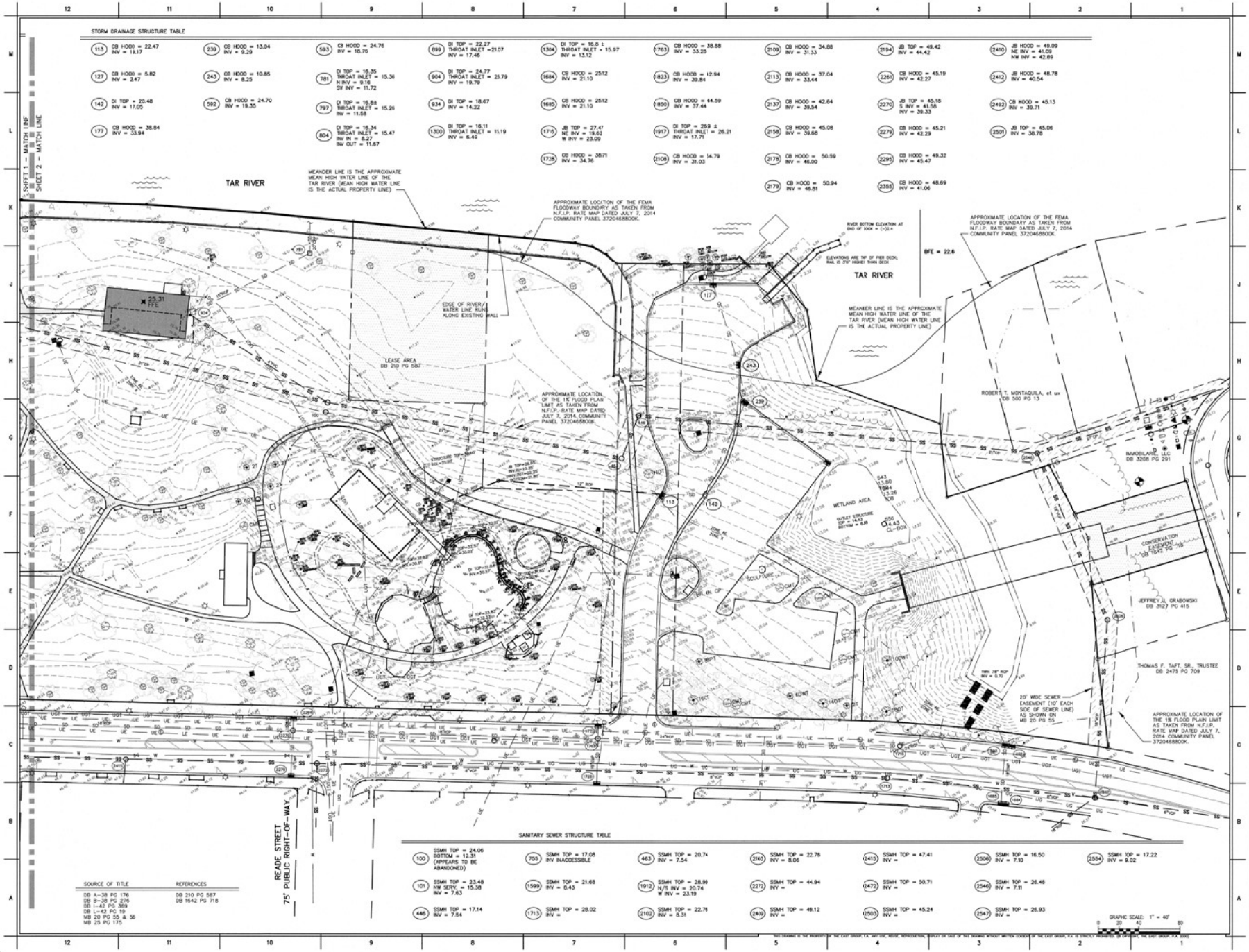
THE EAST GROUP, P.A.
•Engineering•Architecture•Surveying•Technology
5 Evans St., Greenville, NC 27834 252-758-2712 252-830-3604 (Fax)

PROJECT TITLE
CITY OF GREENVILLE
TOWN COMMONS

CITY OF GREENVILLE, PITT CO., NC

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.
APPROVED	SU3
PROJECT NO.: 20150253	



STORM DRAINAGE STRUCTURE TABLE

113 CB HOOD = 22.47 INV = 18.17	239 CB HOOD = 13.04 INV = 9.29	593 CI 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	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
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 SV INV = 11.72	904 DI TOP = 24.77 THROAT INLET = 21.79 INV = 19.79	1684 CB HOOD = 25.12 INV = 21.10	1823 CB HOOD = 12.94 INV = 39.84	2113 CB HOOD = 37.04 INV = 33.44	2261 CB HOOD = 45.19 INV = 42.27	2412 JB HOOD = 46.78 INV = 40.54
142 DI TOP = 20.48 INV = 17.05	592 CB HOOD = 24.70 INV = 19.35	797 DI TOP = 16.88 THROAT INLET = 15.26 INV = 11.58	934 DI TOP = 18.67 INV = 14.22	1685 CB HOOD = 25.12 INV = 21.10	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
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 = 11.19 INV = 6.49	1716 JB TOP = 27.41 NE INV = 19.62 W INV = 23.09	1917 DI TOP = 269 ± THROAT INLET = 26.21 INV = 17.71	2156 CB HOOD = 45.08 INV = 39.68	2279 CB HOOD = 45.21 INV = 42.29	2501 JB TOP = 45.06 INV = 38.78
				1726 CB HOOD = 38.71 INV = 34.76	2108 CB HOOD = 14.79 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	

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	2143 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 = 28.91 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 = 22.71 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 B-38 PG 276 DB I-42 PG 369 DB L-42 PG 19 MB 20 PG 55 & 56 MB 25 PG 175	DB 210 PG 587 DB 1642 PG 718

SEAL 12/31/2024 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
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 = MISTEX/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
= 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 15, 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
1	9/8/23	UPDATED LOCATION & TOPO SURVEY	WBH
1	06/10/19	REVISED PROPERTY BOUNDARY	WBH
1	06/16/17	REVISED IMPOVEMENTS (PLAYGROUND AREA) TO SHEETS 2 AND 4	WBH

THE EAST GROUP, P.A.
•Engineering•Architecture•Surveying•Technology
5 Evans St., Greenville, NC 27834 252-758-2361, 252-830-3054 (fax)

PROJECT TITLE
CITY OF GREENVILLE TOWN COMMONS

CITY OF GREENVILLE, PITT CO., NC

DRAWING TITLE
TOPOGRAPHIC SURVEY

SCALE	DEPARTMENT
AS NOTED	SURVEY
DRAWN BY: WBH	DATE STARTED: 12/21/15
SHEET No.: 4 OF 4	
CHECKED	DRAWING NO.
APPROVED	SU4
PROJECT NO. 20150253	