



**BOLTON
& MENK**

Real People. Real Solutions.

418 S Dawson Street
Raleigh, NC 27596

Ph: (919) 719-1800
Bolton-Menk.com

November 25th, 2024

TO ALL PROSPECTIVE BIDDERS

Mill Bridge Amphitheater

Bid Date: December 10th, 2024
Time 10:00 AM

Bid Submittal: Town of Rolesville
Town Hall
502 Southtown Circle
Rolesville, NC 27571

ADDENDUM #4:

This Addendum, issued prior to receipt of bids, shall and does hereby become part of the Contract Documents for the referenced Project. All Prime Contractors shall be responsible for ensuring that their Subcontractors are properly apprised of the contents of this Addendum. All information contained in this Addendum shall take precedence over any conflicting information in the original Drawings and Specifications, dated September 3, 2024.

PLAN & SPECIFICATION REVISIONS:

1. Sheets C2.00, C3.00, and C4.00
 - a. The segmental block walls (retaining and seat walls) have been revised from a 18" width to a 12" width due to the Diamond Pro Cap dimensions.

RESPONSES TO QUESTIONS RECEIVED FROM BIDDERS:

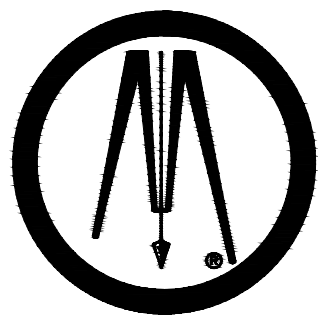
1. On the bid form you have there is 20 SF of block Veneer wall, to what does that refer to?
 1. The Block Veneer Wall refers to the segmental block wall with a cap on the front of the stage, identified on Sheet C2.00, and shown as applied to the face of the stage in Detail 9 on Sheet C5.02.
2. On the site plan it shows that the seating and retaining wall should be 1'6" wide and the Diamond Pro Cap is only available in 12" wide material. I assume that to achieve the 1'6" wide we would have to make a multi wythe wall. Is that correct?
 1. 12" wide is acceptable. Please see the attached revised sheets.

ATTACHMENTS:

1. Sheets C2.00, C3.00, and C4.00

Best regards,
BOLTON & MENK, INC.,

Jacqueline Thompson, PE
Project Engineer
Jacqueline.Thompson@bolton-menk.com



**BOLTON
& MENK**

418 SOUTH DAWSON STREET
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TOWN OF ROLESVILLE

502 SOUTHTOWN CIR
ROLESVILLE, NC 27571

**MILL BRIDGE
AMPHITHEATRE
RENOVATION**

425 NATURE PARK DR
WAKE FOREST, NC 27587

**SITE MATERIALS
PLAN**

PROJECT NO:

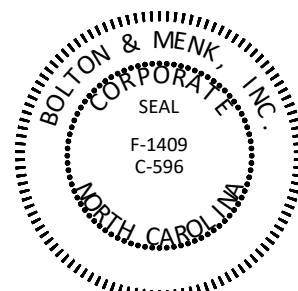
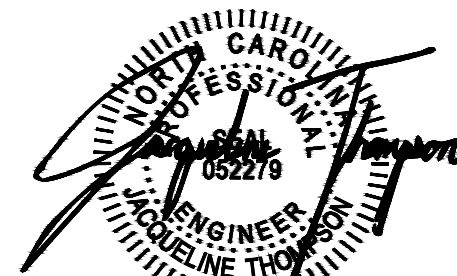
50501.92

REVISIONS:

1 11.25.2024 SITE WALL REVISION

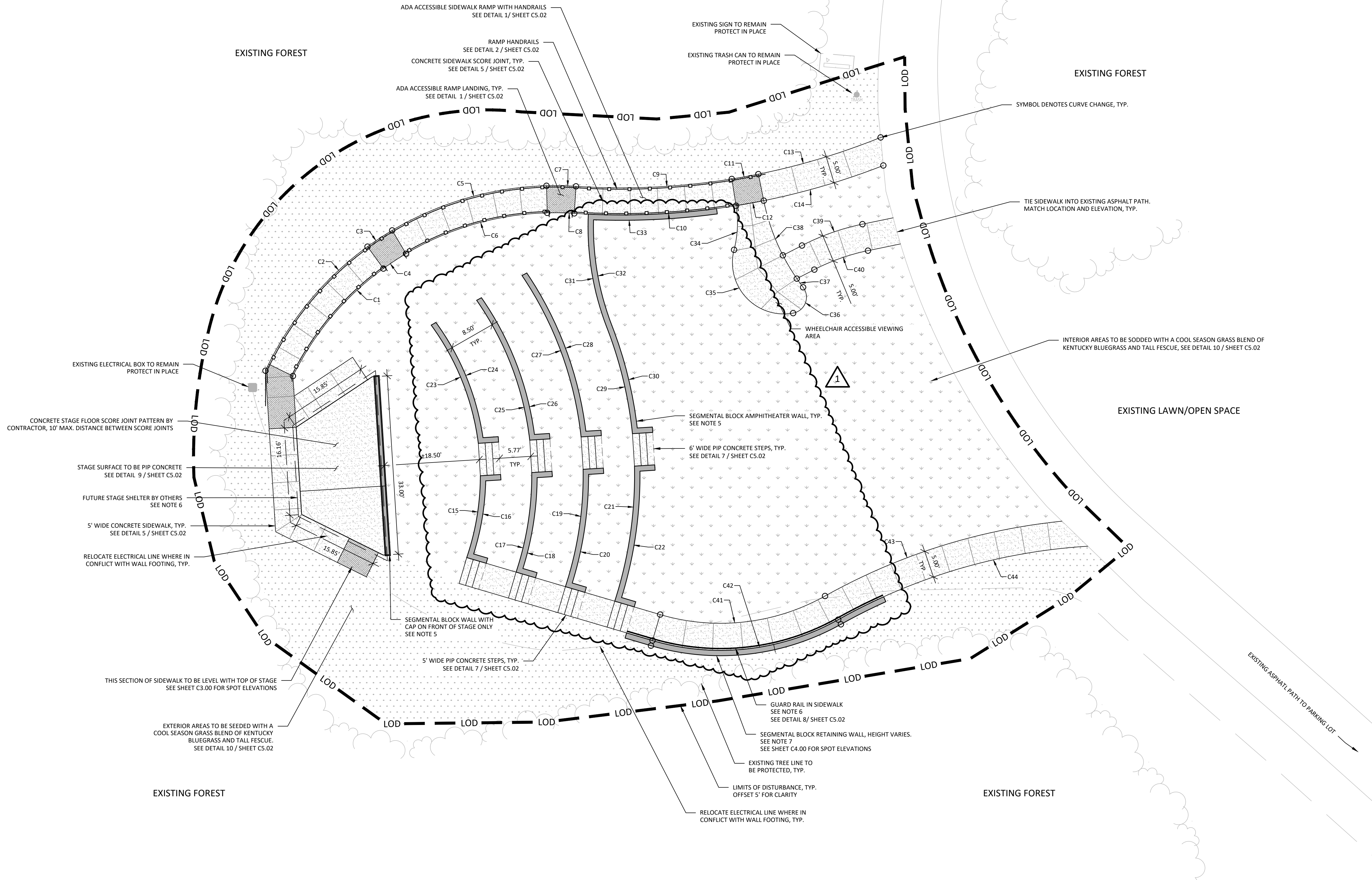


0 10 20
HORIZ. SCALE FEET



DATE: 09.03.2024
DESIGNED BY: JT,DM
DRAWN BY: DM
CHECKED BY: RB, JT

C2.00



STAKING AND MATERIALS NOTES

- ALL DIMENSIONS ARE AT 90 DEGREES UNLESS OTHERWISE NOTED.
- ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL CONTACT ALL OWNERS OF UTILITIES, EASEMENTS, AND RIGHTS-OF-WAY, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
- NO DEMOLITION LANDFILLS ALLOWED ON SITE.
- SEGMENTAL BLOCK WALLS TO BE BELGARD DIAMOND PRO RETAINING WALL SYSTEM IN THE TIMBERLINE COLOR OPTION. SEE MANUFACTURER SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. CONTRACTOR TO PROVIDE SHOP DRAWINGS SEALED BY A NC LICENSED ENGINEER TO THE LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO ORDERING. SEE NOTES ON C4.00.
- GUARDRAIL SHALL BE 4" BLACK ALUMINUM FENCE, STYLE 2 RAIL. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO OWNER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
- SEGMENTAL BLOCK RETAINING WALL TO STEP WITH SLOPE OF SIDEWALK, MAINTAIN MIN. OF 1" BETWEEN TOP OF WALL AND SIDEWALK. STEPS SHALL BE 1 FULL BLOCK IN HEIGHT. CONTRACTOR TO FIELD VERIFY STEPS IN WALL WITH CONSTRUCTED GRADES.

Curve Table		
Curve #	Length	Radius
C1	26.216	54.000
C2	30.000	59.000
C3	5.465	59.000
C4	5.002	54.000
C5	30.000	59.000
C6	27.458	54.000
C7	5.465	59.000
C8	5.002	54.000
C9	28.872	128.000
C10	30.000	133.000
C11	5.000	128.000
C12	5.196	133.000

Curve Table		
Curve #	Length	Radius
C13	23.622	128.000
C14	23.069	133.000
C15	15.392	47.000
C16	13.738	48.000
C17	18.708	56.500
C18	17.056	57.500
C19	22.025	66.000
C20	20.368	67.000
C21	25.341	75.500
C22	23.689	76.500
C23	23.778	47.000
C24	23.211	48.000

Curve Table		
Curve #	Length	Radius
C25	27.918	56.500
C26	27.352	57.500
C27	32.060	66.000
C28	31.495	67.000
C29	20.226	75.500
C30	19.532	76.500
C31	21.394	51.500
C32	20.957	51.047
C33	22.927	133.803
C34	7.210	20.000
C35	19.023	9.500
C36	6.131	3.000

Curve Table		
Curve #	Length	Radius
C37	1.978	39.000
C38	10.740	39.000
C39	11.886	44.000
C40	10.535	39.000
C41	31.484	39.500
C42	35.469	44.500
C43	46.246	113.000
C44	39.095	108.000



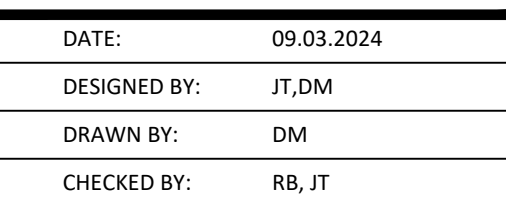
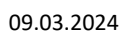
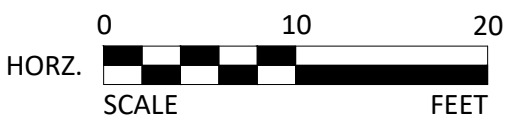
TOWN OF ROLESVILLE

425 NATURE PARK DR
WAKE FOREST, NC 27587

50501.92

REVISIONS:

1	11.25.2024	SITE WALL REVISION
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C3.00



SYME

DETAIL

PROPOSED INDEX CONTOUR

LIMITS OF DISTURBANCE
(LINE WORK OFFSET 5' FOR CLARITY)

PROPOSED SWALE

PROPOSED DRAINAGE PIPE

PROPOSED AREA DRAIN 1 / C5.01

PROPOSED GRAVEL YARD
INLET PROTECTION 1 / C5.01

PROPOSED SILT FENCE 4 / C5.01

PROPOSED SILT FENCE OUTLET 5 / C5.01

PROPOSED RECP 7 / C5.01

EROSION CONTROL CONSTRUCTION SEQUENCE

1. INSTALL PERIMETER SILT FENCE WITH SILT FENCE OUTLETS AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
2. BEGIN DEMOLITION CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
3. INSTALL STORM DRAINS WITH OUTLET PROTECTION. INSTALL INLET PROTECTION AT EACH INLET.
4. STABILIZE SITE AREAS ARE BROUGHT UP TO FINISH GRADE WITH TEMPORARY OR PERMANENT VEGETATION.
5. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL TOWN OF ROLEVILLE FOR FINAL INSPECTION.
6. IF SITE IS APPROVED, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES AND RE-SEED ANY DISTURBED AREAS.

SEEDING SPECIFICATIONS

3:1 SLOPES OR FLATTER:

- | 1. APPLY AGRICULTURAL LIME AT THE RATE OF 100 LBS/1000 S.F. | | |
|--|--|---|
| 2. APPLY 10-10-10 COMMERCIAL FERTILIZER AT THE RATE OR 20 LBS/1000 S.F. | | |
| 3. SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND APPLICATION RATES: | | |
| DATE: | TYPE: | PLANTING RATE: |
| NOV. 5 - NOV. 1 | TALL FESCUE AND | 300 LBS/AC OR 7 LBS/1000 S.F. |
| AUG. 1 - MAR. 1* | TALL FESCUE AND
ABRUZZI RYE | 300 LBS/AC OR 7 LBS/1000 S.F.
25 LBS/AC OR 1/2 LB/1000 S.F. |
| MAR. 1 - APR. 15 | TALL FESCUE | 300 LBS/AC OR 7 LBS/1000 S.F. |
| APR. 15 - JUL. 30 | MULLED COMMON
BERMUDA GRASS | 30 LBS/AC OR 3/4 LB/1000 S.F. |
| JUL. 15 - AUG. 15 | TALL FESCUE AND
BROWN TOP MILLET
OR SORGHUM SUDAN
HYBRIDS | 300 LBS/AC OR 7 LBS/1000 S.F.
35 LBS/AC OR 3/4 LB/1000 S.F.
30 LBS/AC OR 3/4 LB/1000 S.F. |
| 4. MULCH WITH 6" STRAW APPLIED AT THE RATE OF 75 LBS/1000 S.F. AND ANCHOR WITH ASPHALT EMULSION TACK COAT APPLIED AT THE RATE OF 14-28 LBS/1000 S.F. | | |
| OR 800-1200 GAL/AC, CRIMPING, OR BY INSTALLING BIODEGRADABLE NETTING. | | |

- HEAVILY MUCHED DURING JANUARY - MARCH PERIOD.

SLOPES GREATER THAN 3:1

- | | | |
|----------------------|--|---|
| 1. | APPLY AGRICULTURAL LIME AT A RATE OF 100 LBS/1000 S.F. | |
| 2. | APPLY 10-10-10 COMMERCIAL FERTILIZER AT THE RATE OF 20 LBS/1000 S.F. | |
| 3. | SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND APPLICATION RATES: | |
| DATE: | TYPE: | PLANTING RATE: |
| MAR. 1 - JUN. 1 | SERICEA LESPEDEZA
(SCARIFIED) <u>AND</u>
ADD TALL FESCUE | 50 LBS/AC OR 3 1/4 LBS/1000 S.F. |
| MAR. 1 - APR. 1 | OR
ADD TALL FESCUE | 150 LBS/AC OR 3 1/2 LBS/1000 S.F. |
| MAR. 1 - JUN. 1 | ADD WEEPING LOVERGRASS | 5 LBS/AC OR 1/8 LB/1000 S.F. |
| JUN. 1 - SEPT. 1**** | TALL FESCUE AND
BROWN TOP MILLET
OR SORGHUM SUDAN
HYBRIDS | 60 LBS/AC OR 1 1/2 LBS/1000 S.F.
35 LBS/AC OR 3/4 LB/1000 S.F. |
| SEPT. 1 - MAR. 1 | SERICEA LESPEDEZA
(UNRUILLED - UNSCARIFIED)
AND ADD TALL FESCUE
MILLET OR SUDAN | 30 LBS/AC OR 3/4 LB/1000 S.F.
70 LBS/AC OR 3 1/4 LBS/1000 S.F.
150 LBS/AC OR 3 1/2 LBS/1000 S.F.
20 LBS/AC OR 1/2 LB/1000 S.F. |
| 4. | MULCH WITH 6" STRAW APPLIED AT THE RATE OF 75 LBS/1000 S.F. AND ANCHOR
WITH ASPHALT EMULSION TACK COAT APPLIED AT THE RATE OF 14-28 GAL/1000 S.F.
OR 800-1200 GAL./AC, OR BY INSTALLING BIODEGRADABLE NETTING. | |

*** TEMPORARY RESEED SEPT. 1 AT RECOMMENDED RATES.

SEEDBED PREPARATION NOTES

1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
2. AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDED PREPARED DEPTH SHALL BE 4" TO 6" DEEP.
3. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDED PREPARATION AT FINISHED GRADES SHOWN SHALL BE REASONABLY SMOOTH AND UNIFORM.
4. IF NO SOIL TEST IS TAKEN, PROVIDE FERTILIZER AND LIME ACCORDING TO SEEDING SPECIFICATIONS. IN ADDITION, PROVIDE 15 LBS/1000 S.F. SUPERPHOSPHATE.
5. IF SOIL TEST IS TAKEN, PROVIDE LIME AND FERTILIZER ACCORDING TO SOIL TEST REPORT.
6. LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDED PREPARATION.
7. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
8. MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SPREAD.
9. ALL SLOPES STEEPER THAN 3:4 AT MORE THAN 5 FEET IN VERTICAL HEIGHT SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET CONSISTING OF A DOUBLE POLYPROPYLENE NET WITH A STRAW/COCONUT FIBER MATRIX HAVING A MINIMUM LONGEVITY OF 24 MONTHS.

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A:\C5 - PROJECTS\1517\1517-C400-2013 - SHEETS\5050192 - C400 GRADING PLAN.dwg 11/25/2024 11:19:13 AM

GRADING AND EARTHWORK NOTES

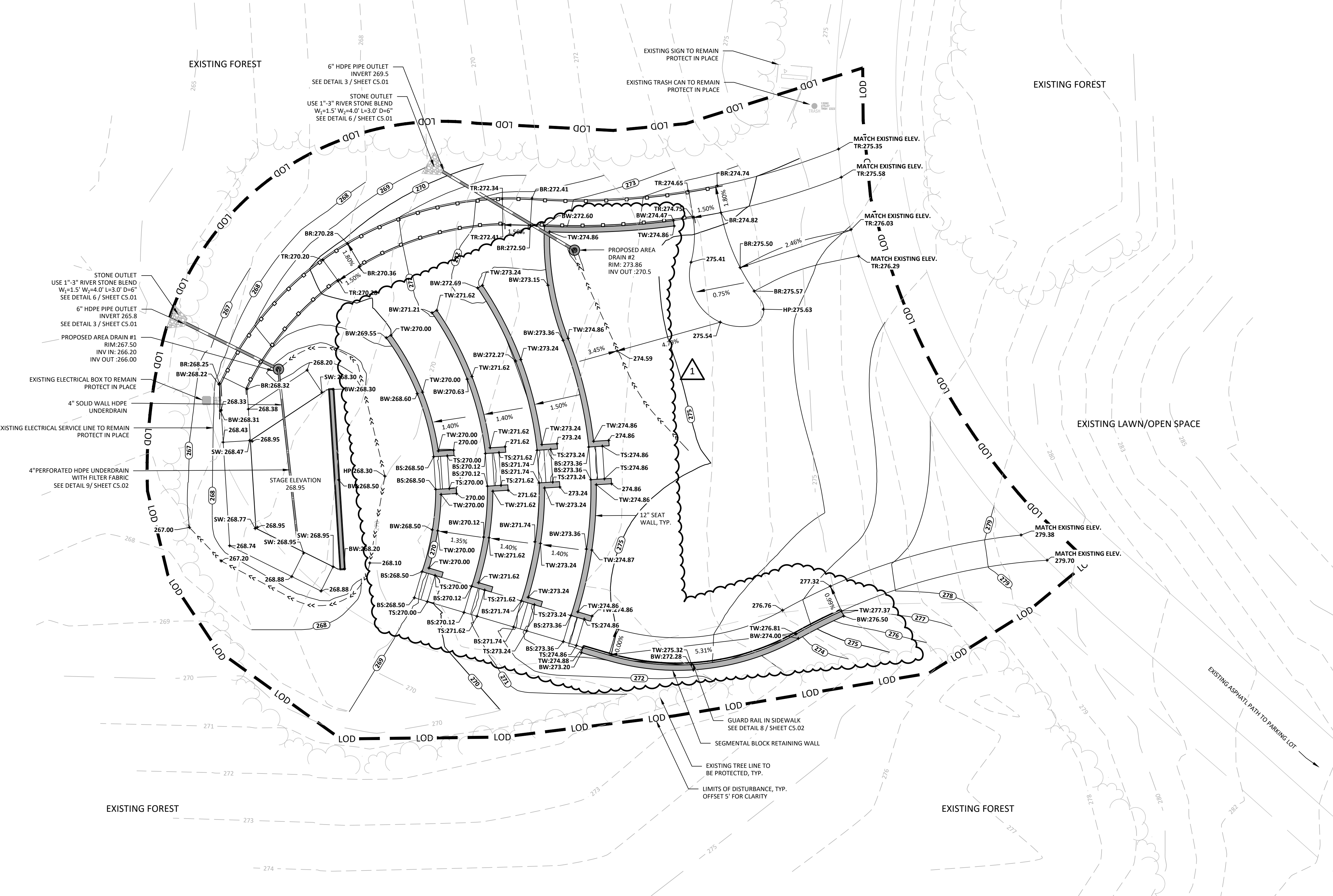
- CONTRACTOR SHALL CONTACT INSPECTOR 48 HOURS BEFORE CONSTRUCTION.
- ON-SITE BURIAL PITS REQUIRE A PERMIT.
- ANY GRADING BEYOND THE DENUDED LIMITS INDICATED ON THE CONSTRUCTION DOCUMENTS IS A VIOLATION OF EROSION CONTROL ORDINANCES AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF EROSION CONTROL ORDINANCES AND IS SUBJECT TO A FINE.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ON ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNER(S).
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION.
- LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
- ALL ELEVATIONS ARE IN REFERENCE TO THE SITE BENCHMARK. CONTRACTOR SHALL VERIFY THE BENCHMARK PRIOR TO GROUND BREAKING.
- THE PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN WITHIN SIDEWALK AREAS REFLECT FINISHED ELEVATIONS INCLUDING PAVEMENT.
- GRADES SHALL BE ESTABLISHED TO PROVIDE A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. GRADING SHALL COMPLY WITH COMPACTION REQUIREMENTS AND GRADE CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. WHERE NO SPOT GRADES ARE INDICATED, THE GRADE SHALL BE ESTABLISHED BASED ON INTERPOLATION OF THE ELEVATIONS BETWEEN ADJACENT SPOT GRADES WHILE MAINTAINING APPROPRIATE TRANSITION AT STRUCTURES AND PAVING, AND UNINTERRUPTED DRAINAGE FLOW INTO INLETS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SUCH THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW GRADED AREAS TO NEW OR EXISTING DRAINAGE INLETS, OR SHEET OVERLAND.

- BOLTON AND MENK, HAS NOT PERFORMED ANY GEOTECHNICAL EVALUATIONS OF THE SUBJECT PROPERTY AND HAS NOT MADE ANY DETERMINATIONS AS TO THE SUITABILITY OF SITE SOILS FOR USE AS FILL BENEATH PROPOSED BUILDINGS, DRIVEWAYS, PARKING AREAS, OR FOR OTHER USES. ALL EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL BE RETAINED BY THE OWNER.
- ALL FILL SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED. ALL FILL WITHIN LIMITS OF BUILDING AND PAVEMENT AREAS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DENSITY WITHIN THE TOP 12 INCHES AND A MINIMUM 95% OF MAXIMUM STANDARD PROCTOR DENSITY BELOW 12-INCH DEPTH. FILL WITHIN LANDSCAPED AREAS SHALL BE COMPACTED TO MINIMUM 90% OF MAXIMUM STANDARD PROCTOR DENSITY. MAXIMUM STANDARD PROCTOR DENSITIES SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 698. REFER TO GEOTECHNICAL ENGINEER'S REPORT FOR ADDITIONAL EARTHWORK SPECIFICATIONS AND REQUIREMENTS.
- FOR SLOPE CONSTRUCTION 3:1 AND STEEPER AND EXCEEDING 5 FEET IN VERTICAL HEIGHT, THE CONTRACTOR SHALL COORDINATE WITH A GEOTECHNICAL ENGINEER ON THE SUITABILITY OF SOILS PLANNED FOR THESE SLOPES AND FOLLOW RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER FOR SLOPE CONSTRUCTION. ALL SUCH SLOPES SHALL BE TRACKED TOP TO BOTTOM AND STABILIZED WITH A ROLLED EROSION CONTROL BLANKET CONSISTING OF POLYPROPYLENE NETTING AND A STRAW/COCONUT FIBER MATRIX, STAKED TO MANUFACTURER'S RECOMMENDATIONS. TOP SOIL PLACEMENT ON SLOPES SHALL BE INSTALLED IN A BENCHED PATTERN.
- ALL PROJECT SUBGRADE SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER. IF THE GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED BACKFILL. SUCH ADDITIONAL AUTHORIZED EXCAVATION SHALL BE PAID FOR ACCORDING TO THE CONTRACT PROVISIONS FOR UNIT PRICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL FILL AND BACKFILL MATERIAL WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698. SOIL MATERIAL THAT EXCEEDS THE OPTIMUM MOISTURE CONTENT BY 3 PERCENT OR MORE, AND IS TOO WET TO COMPACT TO THE SPECIFIED DRY UNIT WEIGHT, SHALL BE SCARIFIED AND AIR DRIED, LIME STABILIZED, OR REMOVED AND REPLACED.
- CONTRACTOR SHALL PROVIDE ALL DEWATERING MEASURES NECESSARY, INCLUDING WELL POINTS, SUMP PUMPS, TEMPORARY SHORING, ETC., TO ENSURE COMPLETION OF STABLE EXCAVATION AND BACKFILL OPERATIONS. GROUNDWATER SHALL BE MAINTAINED A MINIMUM OF 2 FT. BELOW THE BOTTOM OF ALL EXCAVATIONS.

- OWNER SHALL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY CONTROL TESTING. TESTING AGENCY SHALL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D2922 AND ASTM D2937, AS APPLICABLE. TEST SHALL BE PERFORMED AT EACH COMPACTED BACKFILL LAYER AT A RATE OF NOT LESS THAN ONE TEST FOR EACH 2500 SF OF FILL AREA OR ONE TEST PER EACH 100 LF OF WALL OR TRENCH LENGTH.
- ALL GRADED OR DISTURBED AREAS BEYOND THE LIMITS OF PAVING, SIDEWALKS, BUILDINGS, ETC., THAT ARE NOT OTHERWISE LANDSCAPED PER THE LANDSCAPING PLAN, SHALL BE STABILIZED WITH A NEW LAWN SEEDING IN ACCORDANCE WITH THE SEEDING SPECIFICATION. CONTRACTOR SHALL MAINTAIN SEEDER AREAS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.

RETAINING WALL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A QUALIFIED ENGINEER TO COMPLETE THE DESIGN AND PERMITTING OF ALL PROPOSED SEGMENTAL CONCRETE BLOCK RETAINING WALLS SHOWN ON THE DRAWINGS. THE DESIGN OF ALL RETAINING WALLS IS TO BE CONDUCTED IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE, SECTION 1807. DETAILED RETAINING WALL DESIGN DRAWINGS, SEALED BY A NORTH CAROLINA LICENSED ENGINEER, SHALL BE SUBMITTED TO THE LOCAL PLAN REVIEW AUTHORITY PRIOR TO CONSTRUCTION. A NORTH CAROLINA LICENSED ENGINEER MUST PERFORM CONSTRUCTION OBSERVATION, VERIFYING IN A SEALED LETTER TO THE LOCAL INSPECTION AUTHORITY THAT THE RETAINING WALLS WERE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED ENGINEERED DRAWINGS, IN COMPLIANCE WITH SECTION 1704 OF THE NORTH CAROLINA STATE BUILDING CODE.
- BOTTOM OF WALL ELEVATIONS (BW) REFERENCE THE BOTTOM OF WALL AT FINISHED GRADE, TYPICAL IN ALL AREAS. REFER TO WALL STRUCTURAL PLANS BY OTHERS FOR TOP AND BOTTOM OF FOOTING ELEVATIONS.



LEGEND

SYMBOL	DETAIL
	PROPOSED INDEX CONTOUR
	LIMITS OF DISTURBANCE (LINE WORK OFFSET 5' FOR CLARITY)
	PROPOSED SPOT ELEVATION
	PROPOSED HIGH POINT
	PROPOSED SWALE
	PROPOSED DRAINAGE PIPE 2 / C5.01
	PROPOSED AREA DRAIN 1 / C5.01

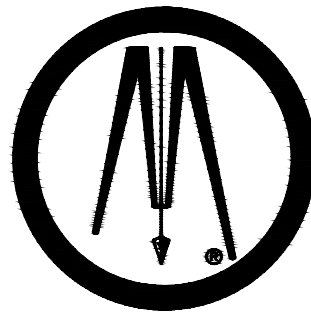
ABBREVIATIONS

- "HDPE" TO BE HIGH-DENSITY POLYETHYLENE PIPE (AASHTO M252 AND AASHTO M294, TYPE S; DUAL WALL WITH SMOOTH INTERIOR).
- US GRADE ELEVATION FOR AD IS AT CENTER OF GRATE.
- "HP" HIGH POINT
- "TW" TOP OF WALL
- "BW" BOTTOM OF WALL
- "TS" TOP OF STAIRS
- "BS" BOTTOM OF STAIRS
- "TR" TOP OF RAMP
- "BR" BOTTOM OF RAMP
- "SW" SIDEWALK

ESTIMATED EARTHWORK

CUT	85 CY
FILL	604 CY
* NET FILL	521 CY

* NET EARTHWORK VOLUME DOES NOT INCLUDE 15% FILL FACTOR



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& MENK**

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RALEIGH, NC 27601
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**MILL BRIDGE
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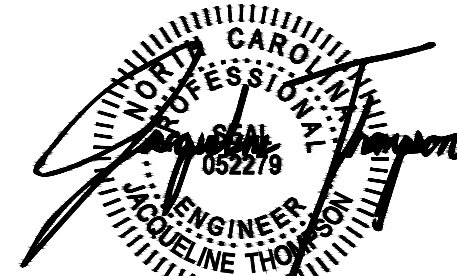
GRADING PLAN

PROJECT NO:

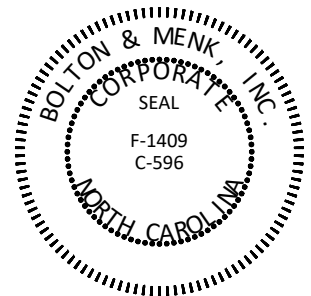
50501.92

REVISIONS:

1 11.25.2024 SITE WALL REVISION



09.03.2024



DATE:	09.03.2024
DESIGNED BY:	JT,DM
DRAWN BY:	DM
CHECKED BY:	RB, JT

C4.00