

PROPERTY LOCATION LAGRANGE, GEORGIA





\*NOTE: ABOVE PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY AND IS NOT TO SCALE



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

NO SUBSURFACE UTILITIES HAVE BEEN SURVEYED CONTRACTOR TO CALL 811

THIS DRAWING SET IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AND SEALED BY THE LANDSCAPE ARCHITECT OF RECORD AND STAMPED "APPROVED FOR CONSTRUCTION." USE OF THESE DRAWINGS FOR QUANTITY TAKE-OFFS AND PRICING IS PRELIMINARY UNTIL ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.

# CONSTRUCTION DOCUMENT SET FOR: MULBERRY STREET CEMETERY ENHANCEMENTS ADDRESS: 101 W MULBERRY ST. LAGRANGE, GA 30240

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ADDITIONAL PLANS REFERENCED (NOT INCLUDED IN THIS SET):

1. HW EXHIBITS INTERPRETIVE SIGNAGE PLANS

## **CONTACT INFORMATION:**

OUTDOOR SPATIAL DESIGN, LLC.
DESIGN LANDSCAPE ARCHITECT

EVAN BRANDON
EMAIL: EVAN@OSDLA.COM
PHONE: (843) 718-5554

INDEPENDENT CONSULTANT
LANDSCAPE ARCHITECT OF RECORD

ERRETT KIRKLAND
EMAIL: ERRETTNK@GMAIL.COM
PHONE: (404) 668-3133

GEORGIA & WEST, INC.
CIVIL ENGINEER

JOHN BASS
EMAIL: JBASS@GEORGIAANDWEST.COM
PHONE: (770) 834-4694

SIMONS YOUNG + ASSOCIATES
ARCHITECT

SIMONS YOUNG EMAIL: SIMONS@SIMONSYOUNG.COM PHONE: (843) 277-0996

HW EXHIBITS

INTERPRETIVE SIGNAGE/EXHIBITS

ANDREW STEEVER EMAIL: ANDREW@HWEXHIBITS.COM PHONE: (917) 848-6155



1349 ASHLEY RIVER RD. CHARLESTON, SC 29407 843.733.3325 www.OSDLA.com

DESIGN LANDSCAPE ARCHITEC



THE CITY OF LAGRANGE, GEORGIA

MULBERRY STREET

METERY ENHANCEMENTS

101 W MULBERRY ST.

LAGRANGE, GA 30240

No.	Description	Date
1	DD SUBMISSION	11.18.2
2	DD SUBMISSION 2	02.09.2
3	DD SUBMISSION 3	03.28.2
4	50% CONSTR. DOCS	09.29.2
5	50% CONSTR. DOCS	01.26.2
6	95% CONSTR. DOCS	02.09.2
7	100% CONSTR. DOCS	03.08.2
8	100% CONSTR. DOCS	04.09.2
9	CLIENT COMMENT	06.05.2
10	BID SET	06.20.2
	+	

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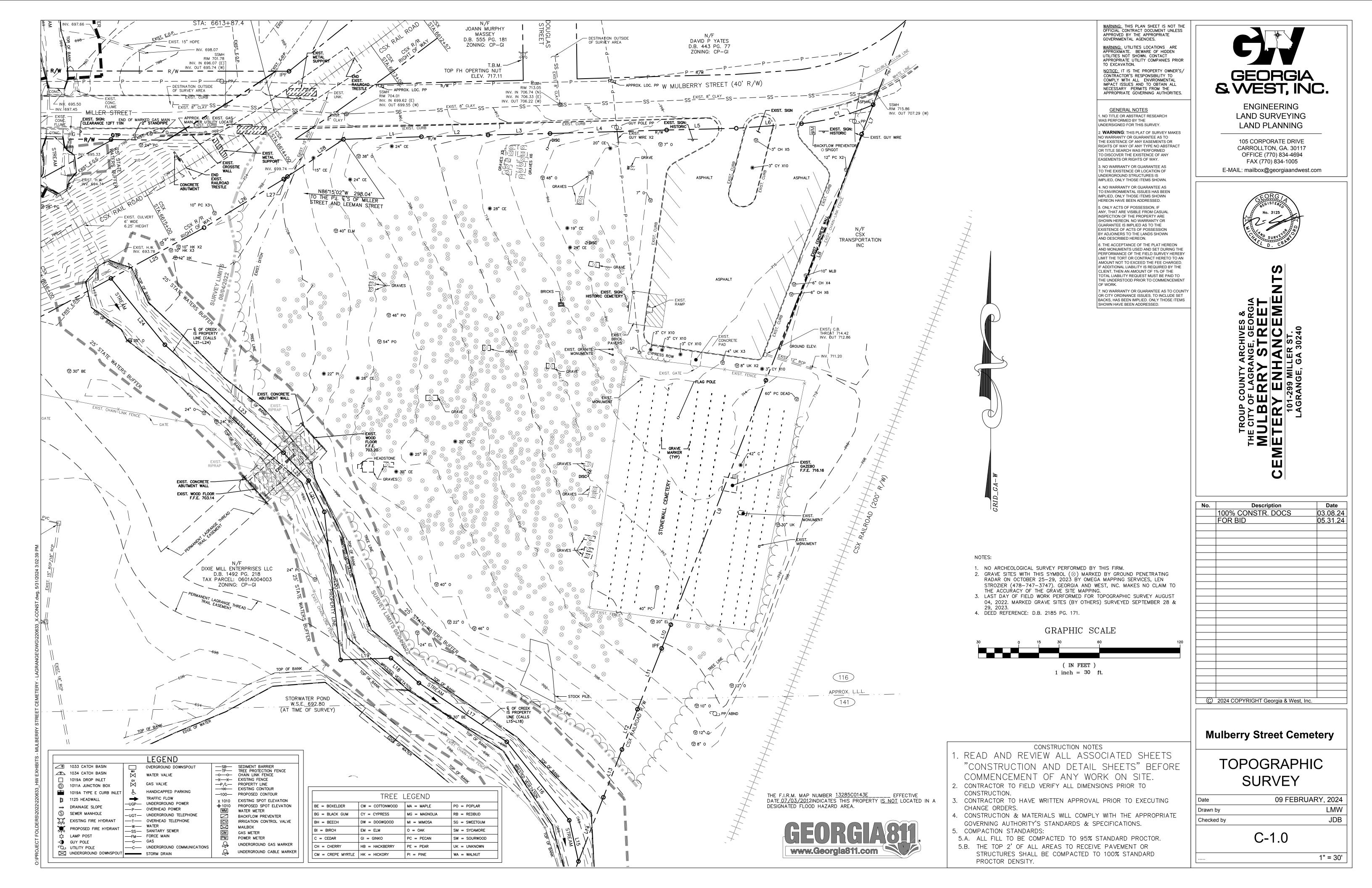
**Mulberry Street Cemetery** 

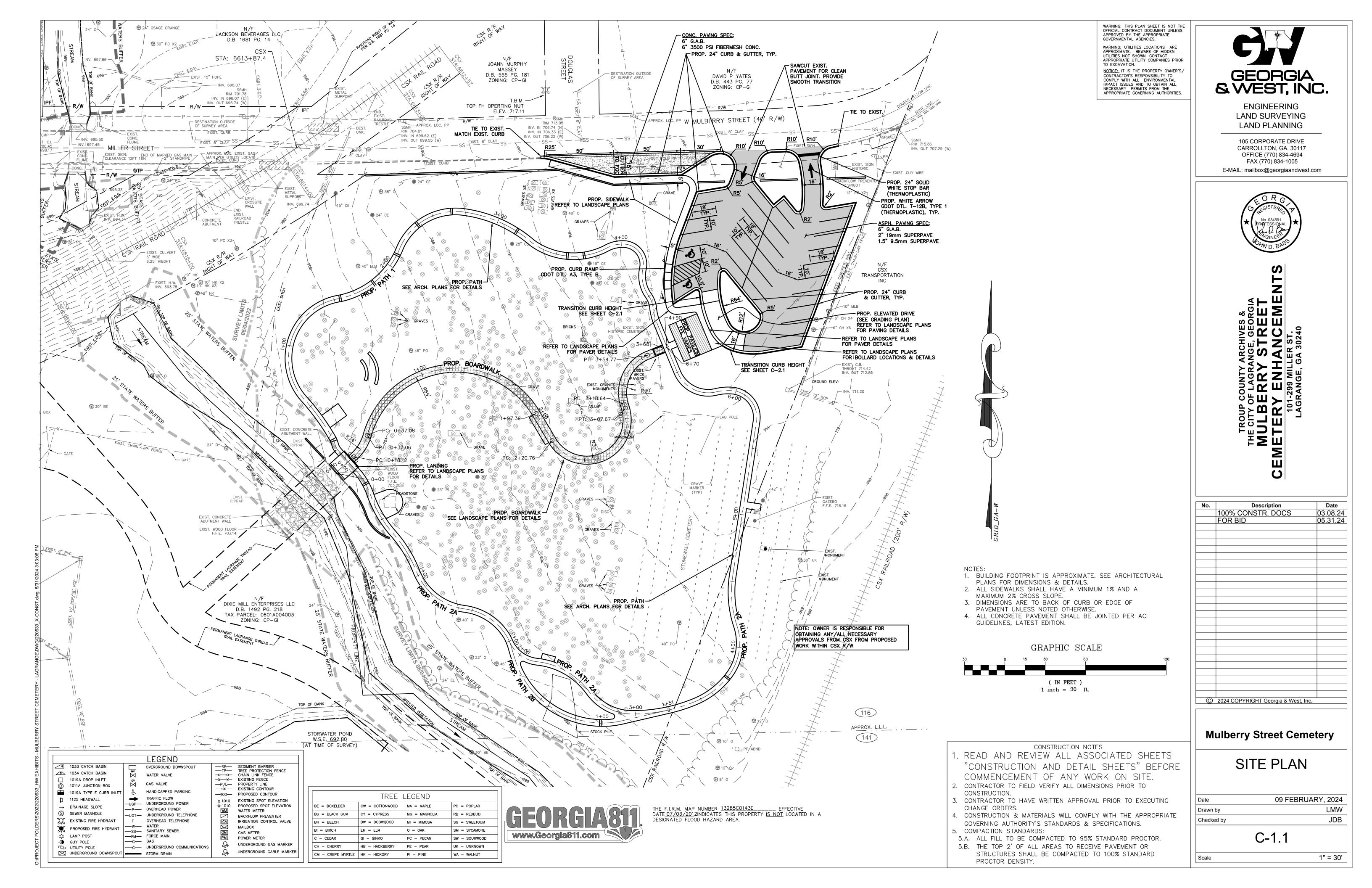
COVER SHEET

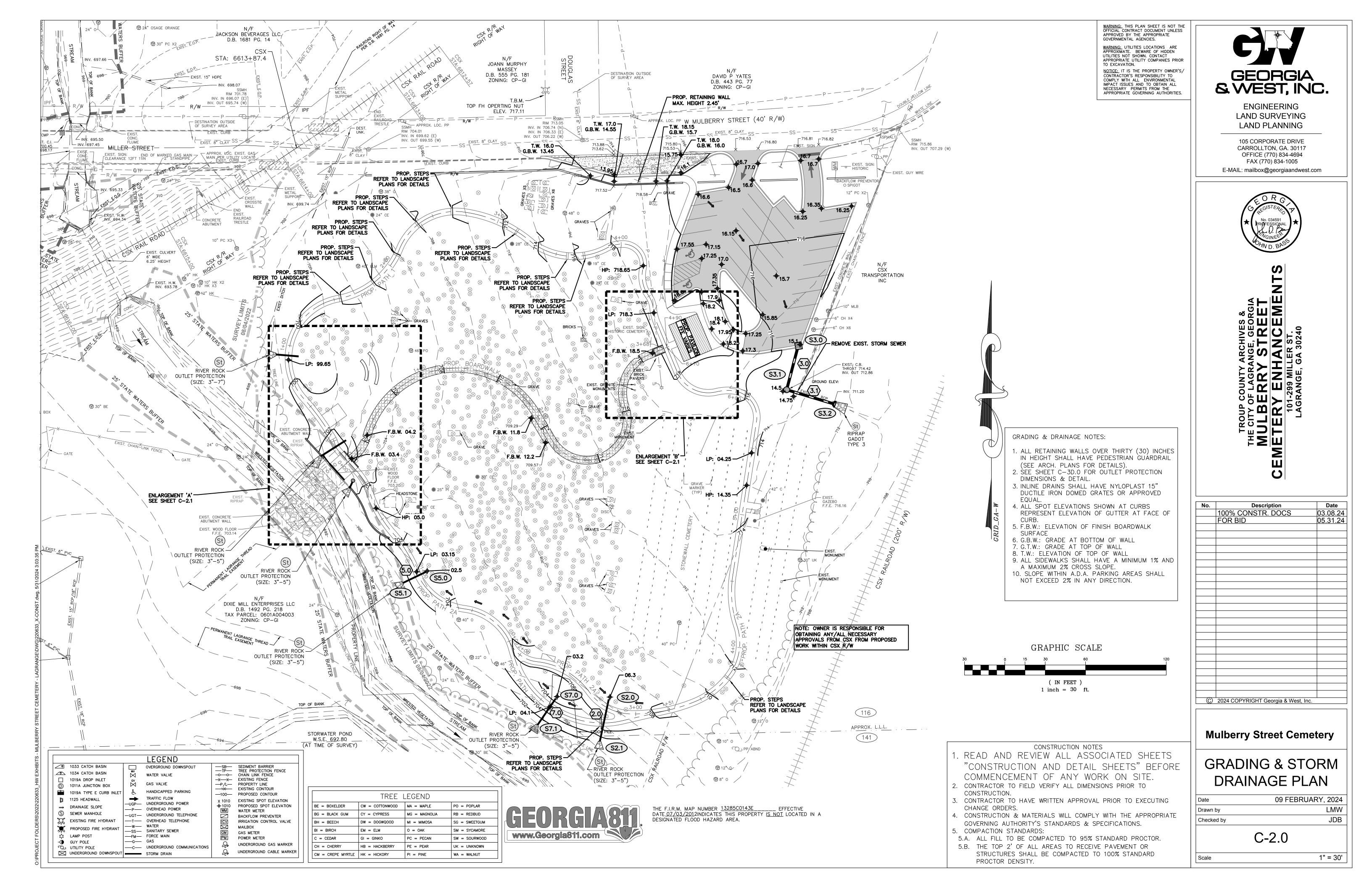
Date 31 MAY, 2024
Drawn by MNG
Checked by MLF

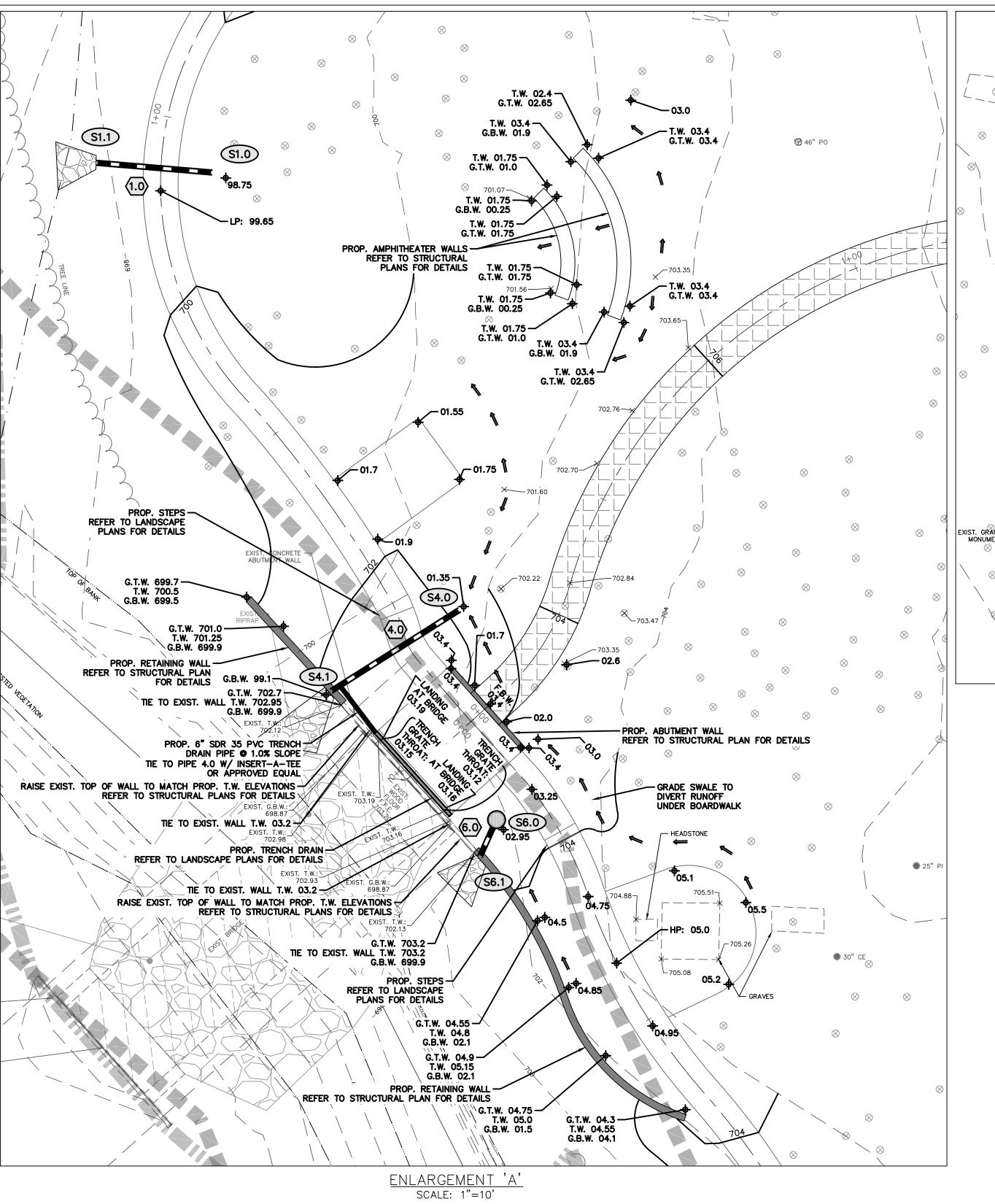
L0.0

Scale









TRANSITION CURB-FROM FLUSH TO 6" FLUSH CURB <del>(P</del> 1/8.25 T.W./G.B.W. 18.6 — PROP. ABUTMENT WALL REFER TO STRUCTURAL PLANS FOR DETAILS G.B.W. 17.0 ∠FLUSH CURB TRANSITION CURB-FROM FLUSH TO 6" PAVERS └ T.W./G.B.W. 18.6 — T.W. 18.5 G.B.W. 17.0

> ENLARGEMENT 'B' SCALE: 1"=10'

## GRADING & DRAINAGE NOTES:

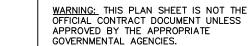
- 1. ALL RETAINING WALLS OVER THIRTY (30) INCHES IN HEIGHT SHALL HAVE PEDESTRIAN GUÁRDRAIL
- (SEE ARCH. PLANS FOR DETAILS).
  2. SEE SHEET C-3D.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL. 3. INLINE DRAINS SHALL HAVE NYLOPLAST 15"
- 4. ALL SPOT ELEVATIONS SHOWN AT CURBS REPRESENT ELEVATION OF GUTTER AT FACE OF

DUCTILE IRON DOMED GRATES OR APPROVED

- 5. F.B.W.: ELEVATION OF FINISH BOARDWALK
- SURFACE 6. G.B.W.: GRADE AT BOTTOM OF WALL
- 7. G.T.W.: GRADE AT TOP OF WALL 8. T.W.: ELEVATION OF TOP OF WALL
- 9. ALL SIDEWALKS SHALL HAVE A MINIMUM 1% AND
- A MAXIMUM 2% CROSS SLOPE.
- 10. SLOPE WITHIN A.D.A. PARKING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.



THE F.I.R.M. MAP NUMBER 13285C0143E \_\_\_\_\_ EFFECTIVE



GRAPHIC SCALE

( IN FEET )

1 inch = 10 ft.

CONSTRUCTION NOTES

"CONSTRUCTION AND DETAIL SHEETS" BEFORE

. READ AND REVIEW ALL ASSOCIATED SHEETS

CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING

4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE

STRUCTURES SHALL BE COMPACTED TO 100% STANDARD

COMMENCEMENT OF ANY WORK ON SITE.

2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO

GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.

5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR

5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.

CONSTRUCTION.

CHANGE ORDERS.

5. COMPACTION STANDARDS:

PROCTOR DENSITY.

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES



**ENGINEERING** LAND SURVEYING LAND PLANNING

CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com

105 CORPORATE DRIVE



No.	Description	Date
	100% CONSTR. DOCS	03.08.24
	FOR BID	05.31.24
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## **Mulberry Street Cemetery**

**GRADING & STORM** DRAINAGE **ENLARGEMENTS** 

09 FEBRUARY, 2024 Drawn by Checked by

Scale

C-2.1

1"=10'

LEGEND —SB— SEDIMENT BARRIER
—TP— TREE PROTECTION FENCE OVERGROUND DOWNSPOUT WATER VALVE —O—O— CHAIN LINK FENCE \_x\_\_x\_ EXISTING FENCE GAS VALVE —P/L— PROPERTY LINE —100— EXISTING CONTOUR HANDICAPPED PARKING —100— PROPOSED CONTOUR TRAFFIC FLOW X 1010 EXISTING SPOT ELEVATION -UGP-- UNDERGROUND POWER PROPOSED SPOT ELEVATION -UGT- UNDERGROUND TELEPHONE

——C—— UNDERGROUND COMMUNICATIONS

-FM- FORCE MAIN

—G— GAS

UNDERGROUND DOWNSPOUT \_\_\_\_\_ STORM DRAIN

✓ 9 1033 CATCH BASIN

. 1034 CATCH BASIN

☐ 1019A DROP INLET

1125 HEADWALL

→ DRAINAGE SLOPE

S SEWER MANHOLE

-GUY POLE

(D) 1011A JUNCTION BOX

WATER METER BACKFLOW PREVENTER MAILBOX GAS METER

IRRIGATION CONTROL VALVE POWER METER

BE = BOXELDER BG = BLACK GUM BH = BEECH BI = BIRCH C = CEDAR UNDERGROUND GAS MARKER CH = CHERRY UNDERGROUND CABLE MARKER CM = CREPE MYRTLE | HK = HICKORY

PO = POPLAR RB = REDBUD MG = MAGNOLIA SG = SWEETGUM SM = SYCAMORE SW = SOURWOOD UK = UNKNOWN

WA = WALNUT

TREE LEGEND

MI = MIMOSA

PC = PECAN

PE = PEAR

O = OAK

CW = COTTONWOOD MA = MAPLE

CY = CYPRESS

DW = DOGWQOOD

HB = HACKBERRY

EM = ELM

GI = GINKO

DATE 07/03/2012INDICATES THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD HAZARD AREA.

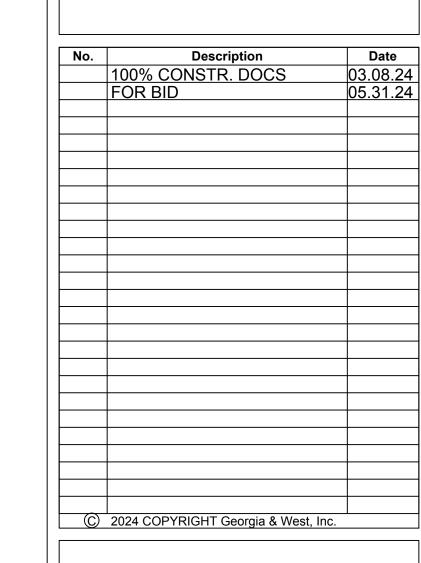
WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES. WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION. NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

GEORGIA & WEST, INC.

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105 CORPORATE DRIVE CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com





**Mulberry Street Cemetery** 

# STORM SEWER **PROFILES**

09 FEBRUARY, 2024

Checked by

C-2.2

AS SHOWN

Scale

700 700 700 Q<sub>100</sub>= 0.02 CFS Q<sub>100</sub>=0.15 CFS Q<sub>100</sub>=0.85 CFS V<sub>100</sub>=1.20 FPS V<sub>100</sub> = 2.00 FPS  $V_{100} = 3.51 \text{ FPS}$ 8" HDPE 690 690 690 690 701. 0+00 0+22.30 0+00 0+24.12

STORM RUN 2 STORM RUN 1

Q<sub>100</sub>=0.67 CFS  $V_{100} = 3.20 \text{ FPS}$ 

700

690

0+00 0+17.23

V<sub>100</sub>=7.46 FPS

STORM RUN 3

0+70.47

PIPE 3.0 LEN 34' @ 1.70%

PIPE 3.1 LEN 36' @ 1.00% 18" HDPE

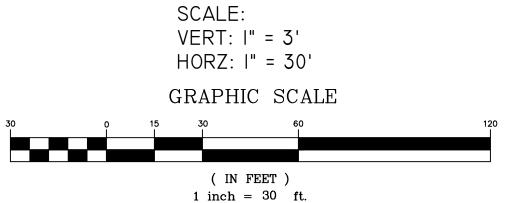
STORM RUN 4 STORM RUN 5 STORM RUN 6

0+00 0+19.58 0+00 0+06.09 **STORM RUN 7** 

CONSTRUCTION NOTES

- . READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
- 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
- 4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS. 5. COMPACTION STANDARDS:
- 5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR. 5.B. THE TOP 2' OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD





DRAINAGE NOTES:

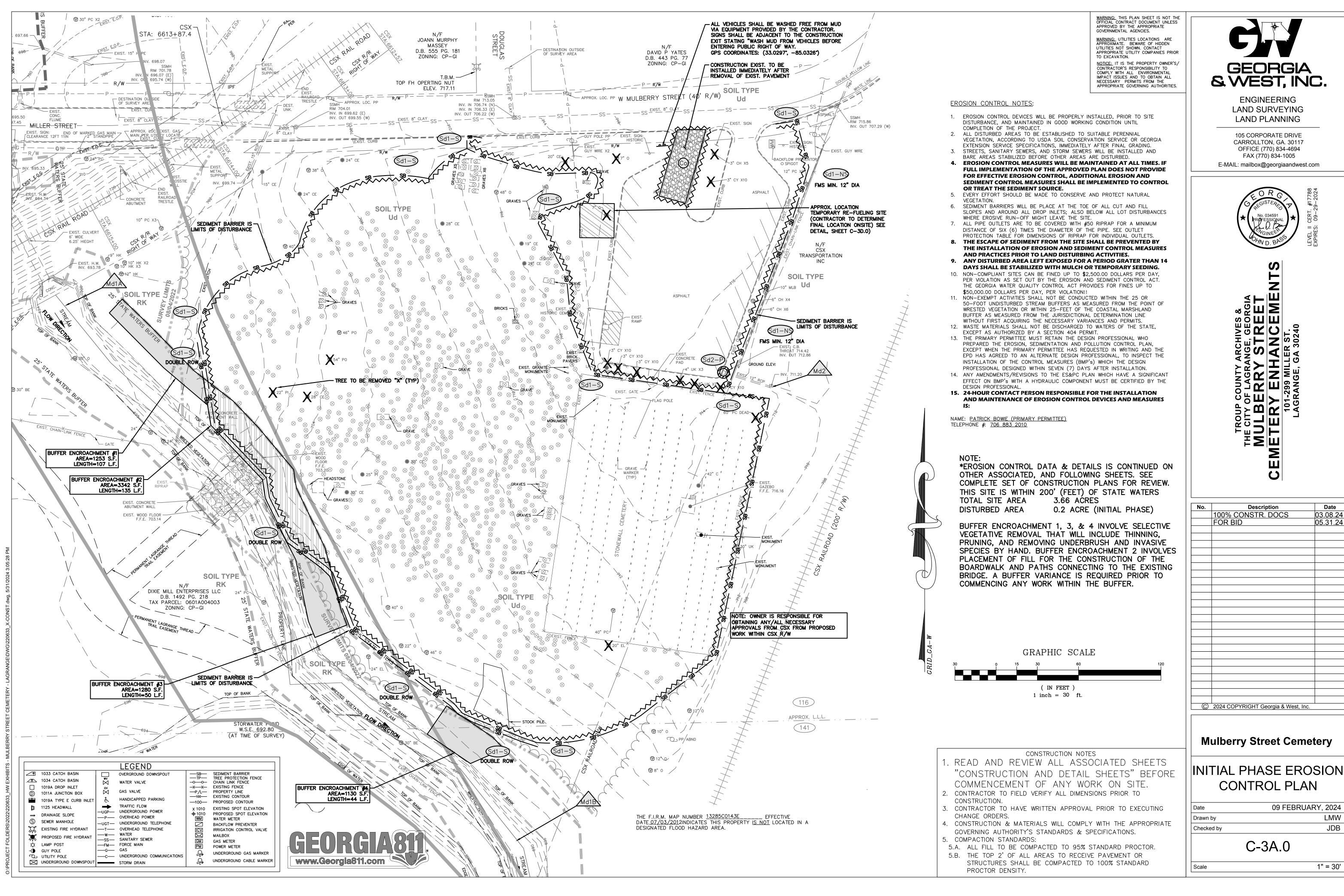
1. SEE SHEET C-3D.0 FOR OUTLET PROTECTION DIMENSIONS & DETAIL.

2. INLINE DRAINS SHALL HAVE NYLOPLAST 15" DUCTILE IRON DOMED GRATES OR APPROVED

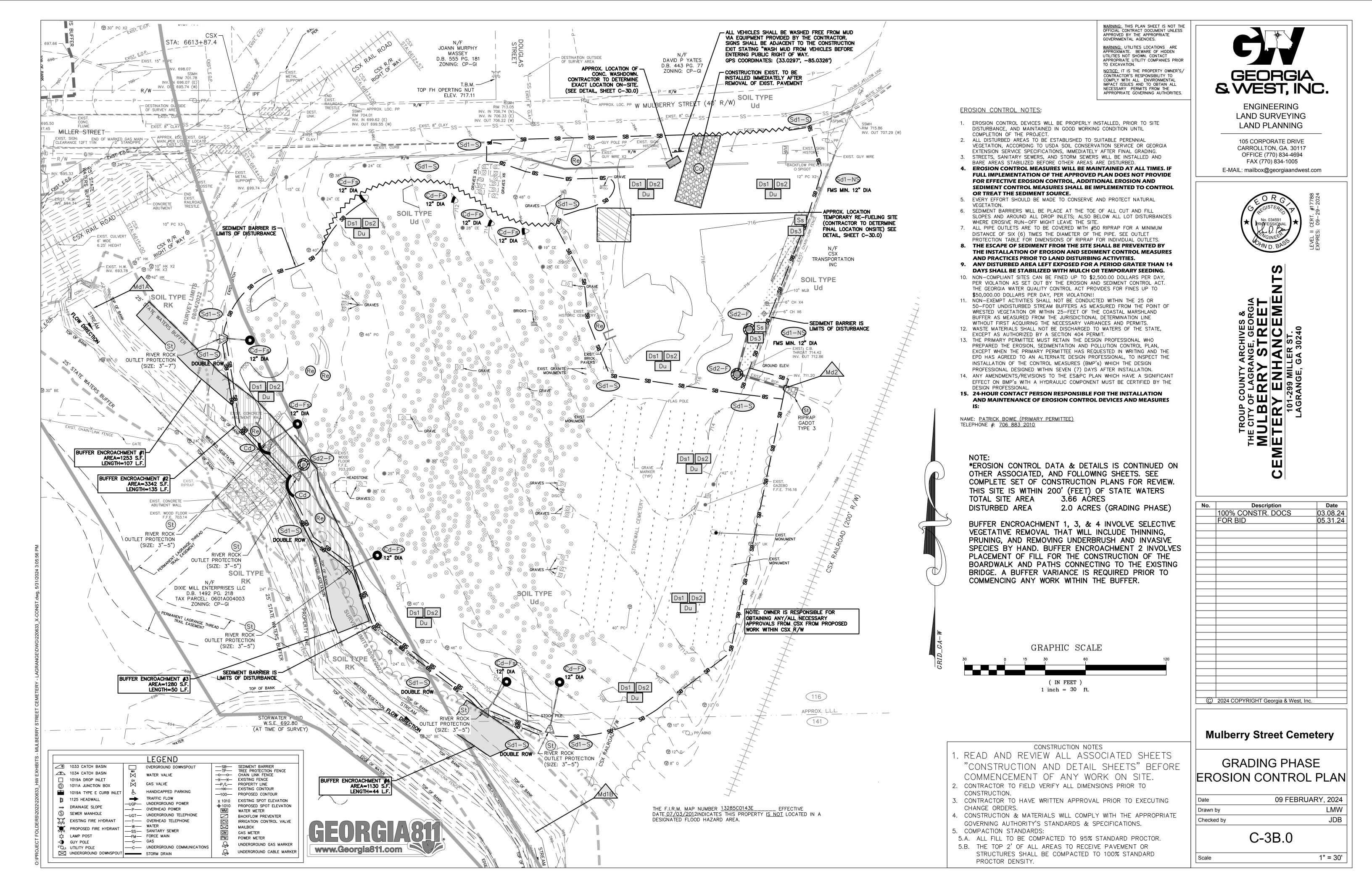
100 YR. STORM EVENT HYDRAULIC GRADE LINE

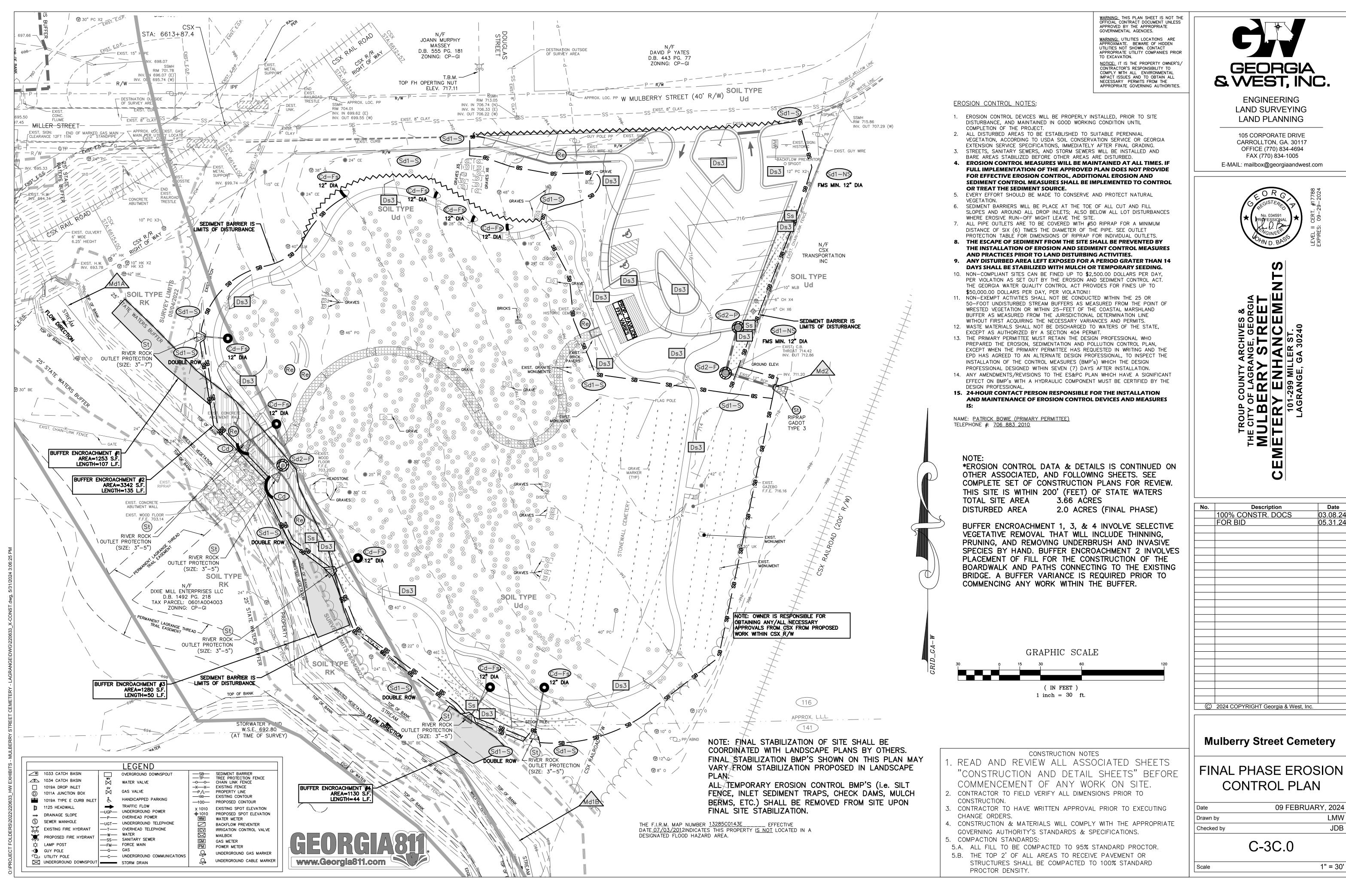
Q<sub>100</sub>=4.48 CFS  $V_{100} = 4.59 \text{ FPS}$ 

700

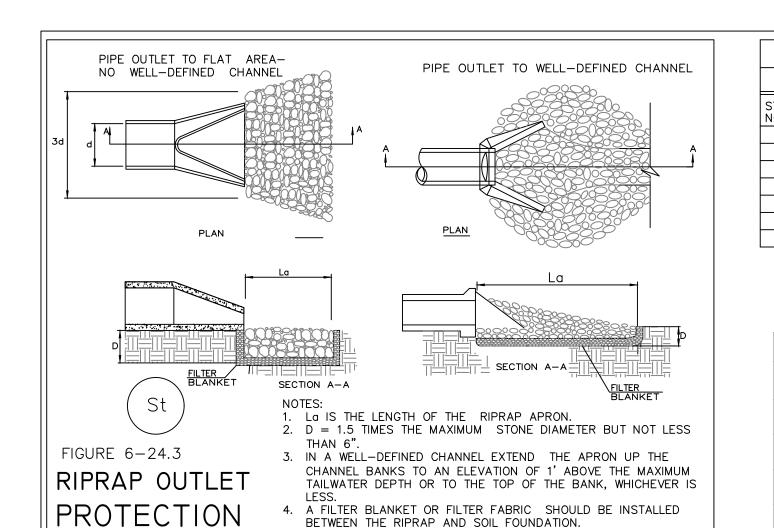


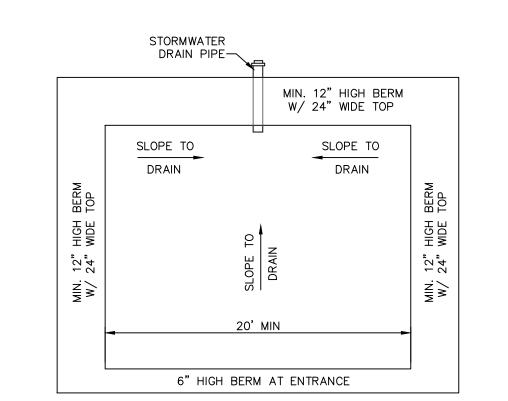
09 FEBRUARY, 2024



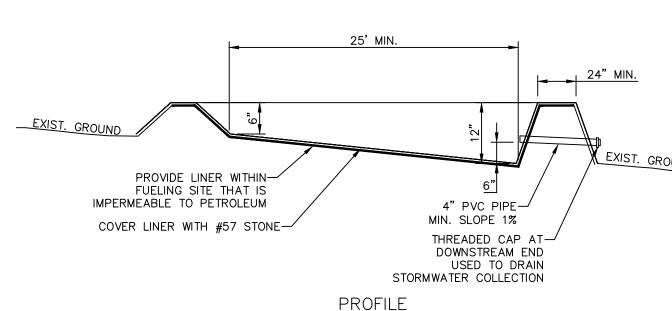


09 FEBRUARY, 2024





PLAN



## TYPICAL DETAIL OF TEMPORARY RE-FUELING SITE

-48"x24" PLYWOOD PAINTED WHITE - BLACK LETTERS 6" HEIGHT CONCRETE ∠ 2" LAG SCREWS WASHOUT - STRAW BALE WOOD POSTS (TYP) PLASTIC LINING CONCRETE WASHOUT SIGN DETAIL PLAN

STAPLE DETAIL

- BINDING WIRE

- WOOD OR

PLASTIC LINING

STAPLES —

NATIVE MATERIAL -

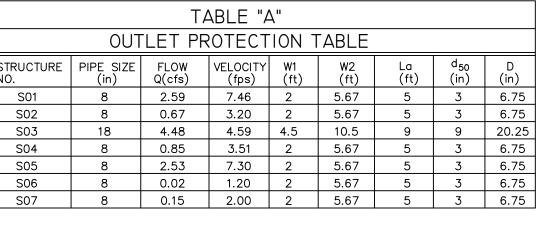
(OPTIONAL)

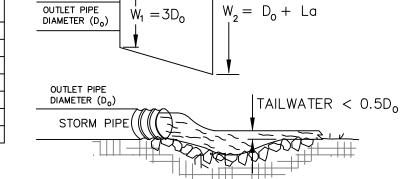
SECTION A-A

(2 PER BALE)

I. ACTUAL LAYOUT OF WASHOUT FACILITY TO BE TERMINED IN FIELD.
CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN
FT. OF WASHOUT FACILITY. 30 FT. OF WASHOUT FACILITY.
3. PLASTIC LINING SHALL BE FREE OF TEARS OR HOLES
THAT WOULD ALLOW THE WASHWATER TO ESCAPE.
4. DISPOSE OF HARDENED CONCRETE IN
STATE—APPROVED LANDFILL OR RECYCLE WHERE 5. DAMAGED HAYBALES OR PLASTIC LINER TO BE REPLACED AS NEEDED THROUGHOUT OPERATION OF WASHOUT FACILITY. 6. AT END OF WASHOUT FACILITY SERVICE LIFE, ALL MATERIAL USED TO CONSTRUCT FACILITY MUST BE DISPOSED OF IN STATE—APPROVED LANDFILL.
7. NEVER DISPOSE OF WASHWATER IN STREETS, STORM DRAINS, OR STREAMS.
8. WASHOUT OF CONCRETE TRUCK DRUM ONSITE IS METAL STAKES (2 PER BALE) 9. EXACT QUANTITIES AND LOCATIONS OF CONCRETE WASHOUTS TO BE DETERMINED BY CONTRACTOR.

CONCRETE WASHOUT - ABOVE GRADE WITH STRAW BALES NOTE: CONCRETE WASHOUT CONTAINERS BY WASHOUT SYSTEMS OR ECO-PAN MAY BE USED AS ALTERNATIVES





**→**La →

 $D = 1.5 \times MAX. ROCK SIZE$  $D = 2.25 \times d_{50}$ RIP RAP - GA DOT STD 805

MONITORING SITE CHART										
LOCATION	ON-SITE (AC) DRAINAGE AREA	TOTAL (AC) DRAINAGE AREA	OTAL (AC) TOTAL (SQ MI) RAINAGE AREA DRAINAGE AREA		RECOMMENDED MONITORING					
Md1A**	N/A	N/A N/A		N/A	YES					
Md1B**	2.5	5 2.5 N		Md1A+25	YES					
Md2** 0.5		0.5	0.0008	75	YES					
* NTU LIMIT TAKEN FROM GENERAL PERMIT GAR100001										
SAMPLES TO BE TAKEN BY "GRAB SAMPLES" OR OTHER APPROVED METHOD. SAMPLES TO BE ANALYZED BY HACH OR OTHER APPROVED METHOD.										

\*\*SEE EROSION CONTROL PLAN (SHEETS C-3A.O, C-3B.O & C-3C.O) FOR MONITORING

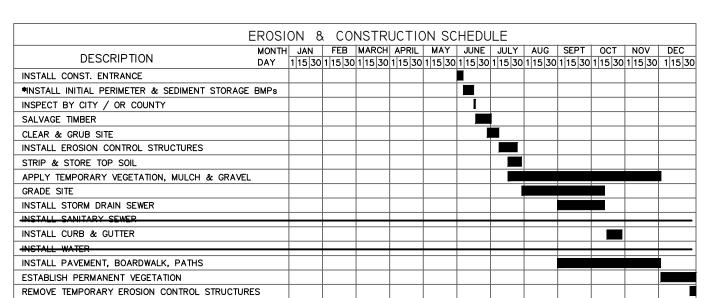
SITE LOCATIONS.

MONITODING SITE CHAPT

WATERSHED#3/ CONTRIBUTING DRAINAGE BASIN C **TOTAL AREA: 0.2 ACRE DISTURBED AREA:0.2 ACRE** WATERSHED#2/ CONTRIBUTING DRAINAGE BASIN B **TOTAL AREA:0.5 ACRE** LAGRANGE **DISTURBED AREA:0.5 ACRE** - WATERSHED#1 CONTRIBUTING DRAINAGE BASIN A TOTAL AREA: 2.5 ACRE **DISTURBED AREA:1.3 ACRE** PRE-DEVELOPED CURVE NUMBER (CN): 65 POST-DEVELOPED CURVE NUMBER (CN): 65

WATERSHED/CONTRIBUTING DRAINAGE BASIN MAP

SCALE: 1" = 2000'DUE TO THE TYPE OF DEVELOPMENT PROPOSED IN THIS PROJECT AND THE SITE CONDITIONS UPON WHICH THE DEVELOPMENT WILL BE BUILT, NO SEDIMENT STORAGE STRUCTURES ARE PROPOSED. GIVEN THE MINIMAL DISTURBANCE



"INITIAL PERIMETER & SEDIMENT STORAGE BMP" SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATION AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON SITE. SEDIMENT BASINS AND BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

								so	L SERIES	INTERF	RETATIONS					
	ESTIMATED SOIL PROPERTIES										LIMITAT	TION OF SOILS	FOR URBAN US	SES		
MAP SYMBOL	SOIL SERIES	PERMEABILITY		SHRINK- SWELL POTENTIAL:		CONCRETE	WATER		FLOOD FRE- QUENCY	HYDRO- GROUP	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOON AREAS	SHALLOW EXCAVATIONS	DWELLINGS *w/basement #w/o basement	SMALL COMMERCIAL BUILDINGS	LOCAL ROADS AND STREETS
Rk	ROANOKE	0.06-0.2	3.6-6.5	Mod.	High	High	0-1.0	>60	None Rare Occ Freq	D	None, Rare:S;w,pk Occ,Freq:S;w,f,pk	None,Rare:S;w.p Occ,Freq:S;w,f,p	S;w	None:S;w Rare,Occ,Freq:S;w,f	None:S;w Rare,Occ,Freq:S;w,f	None,Rare:S,w,b Occ,Freq:S,w,b,f

SEDIMENT BASIN EXEMPTION NOTE:

NECESSARY TO CONSTRUCT THE PARKING LOT, BOARDWALK, & WALKING PATH THE ADJACENT PROPERTIES AND ENVIRONMENT WOULD BE NEGATIVELY AFFECTED

THE INSTALLATION OF SEDIMENT STORAGE STRUCTURES FOR A NEGLIGIBLE BENEFIT. PERIMETER CONTROL, INLET SEDIMENT TRAPS, AND CHECK DAMS ARE

UTILIZED THROUGHOUT THE SITE IN A EFFORT TO CONTROL EROSION. THE

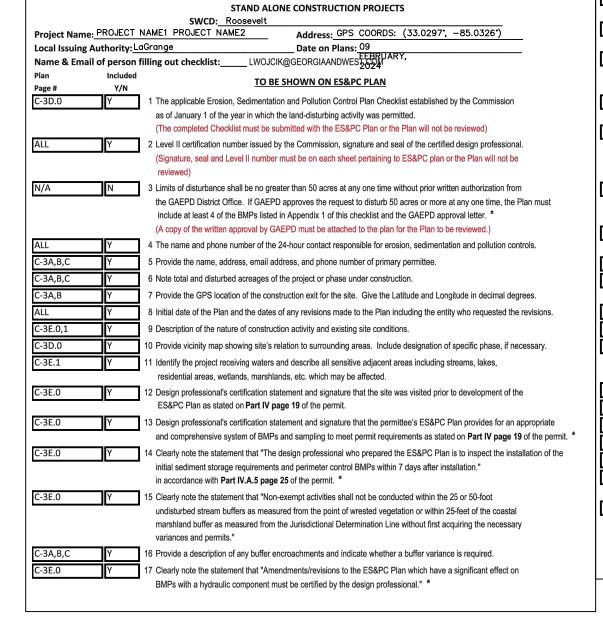
SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(ADDITIONAL CLEARING, GRADING, AND OTHER LAND DISTURBING ACTIVITIES) BY

MEASURES SHOWN IN THIS PLAN SHOULD BE SUFFICIENT TO MANAGE EROSION,

SEDIMENTATION, AND POLLUTION CONTROL WITHIN THE PROJECT SITE. IF FULL

IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES



**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST** 

			1
C-3E.1	Υ	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *	C-3A,B,C
C-3E.0	Υ	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."	
C-3E.0	Υ	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."	N/A
C-3E.0	Υ	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."	
N/A	N	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *	N/A C-3A,B,C
N/A	N	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *	N/A C-3D.0
C-3B,D	Υ	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *	C-3D.0 C-3E.1
C-3B,D,E.1	Υ	25 Provide BMPs for the remediation of all petroleum spills and leaks.	
C-3E.0	Υ	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *	C-3D.0
C-3E.1	Υ	27 Description of practices to provide cover for building materials and building products on site. *	C-3A,B,C,D
C-3E.0	Υ	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *	C-3A,B,C
C-3D.0	Υ	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).	C-3A,B,C,D.
C-3E.0,1	Υ	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *	
C-3E.1	Υ	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *	
C-3E.0	Υ	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *	
C-3E.1	Υ	33 Description of analytical methods to be used to collect and analyze the samples from each location. *	
C-3D.0	Υ	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. $^{\star}$	
C-3A,B,C	Υ	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which	C-3A B C

storm water is discharged. 1

all of the BMPs into a single phase. \*

C-3E.0 Y 36 A description of appropriate controls and measures that will be implemented at the construction site including:

(1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage

BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter

control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine

Y 37 Graphic scale and North arrow.
Y 38 Existing and proposed contour lin 8 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Map Scale Ground Slope Contour Intervals, ft. larger scale Rolling 2 - 8% Steep 8% + N 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov. N 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. \* Y 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site. 43 Delineation and acreage of contributing drainage basins on the project site. 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. \* Y 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities an Y 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points. 47 Soil series for the project site and their delineation. 48 The limits of disturbance for each phase of construction. 9 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. 5-3A,B,C Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with CD-3.0 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting

dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time

of the year that seeding will take place and for the appropriate geographic region of Georgia. \* If using this checklist for a project that is less than 1 acre and not part of a common development

but within 200 ft of a perennial stream, the \* checklist items would be N/A.

WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROPRIATE UTILITY COMPANIES PRIOR NOTICE: IT IS THE PROPERTY OWNER'S/ & WEST, INC.

APPROVED BY THE APPROPRIATE

<u>WARNING:</u> UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT

CONTRACTOR'S RESPONSIBILITY TO

COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL

NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

GOVERNMENTAL AGENCIES.

TO EXCAVATION.

**ENGINEERING** LAND SURVEYING LAND PLANNING

CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com

105 CORPORATE DRIVE



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**Mulberry Street Cemetery** 

## **EROSION CONTROL DATA**

	C-3C 0
Checked by	JDB
Drawn by	LMW
Date	09 FEBRUARY, 2024

0.0.0

N.T.S. Scale

DESIGN PROFESSIONAL:

GEORGIA AND WEST, INC 105 CORPORATE DRIVE CARROLLTON, GA 30117 PHONE: (770) 834-4694

24-HOUR CONTACT CITY OF LaGRANGE ATTN: PATRICK BOWIE 706 883 2010

## GENERAL NOTES

- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM TH JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE
- NECESSARY VARIANCES AND PERMITS. EACH SECONDARY PERMITTEE WILL BE PROVIDED WITH A COPY OF HE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR
- AMMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST F CERTIFIED BY THE DESIGN PROFESSIONAL AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED AREA CONSISTING OF PAVED PARKING
- GRASSING, LANDSCAPING, AND OUTLET PROTECTION AT ALL STORM WATER OUTFALLS. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
- A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-FRODIBLE MATERIAL B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO HE PREVAILING WIND
- C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS. D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES. THIS SITE TO BE DEVELOPED INTO A BEAUTIFICATION OF AN EXISTING CEMETARY. THE TOTAL SITE AREA: 3.66 ACRES. THE TOTAL
- PERIMETER CONTROLS WILL BE CONSTRUCTED TO ACCOMMODATE 67 VEGETATION WILL BE INSTALLED ONSITE TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES AFTER CONSTRUCTION IS COMPLETED.

CLEARING PHASE - PHASE I

COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

FEET OF DESIGNATED TREE PROTECTION AREAS.

EROSION CONTROL NOTES

DISTURBED AREA: 2.0 ACRES.

PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE

INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY. THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED

LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION. OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE

EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY

THE CONSTRUCTION EXIT. CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN  $1\frac{1}{2}$  %  $3\frac{1}{2}$  IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

3. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN THE SLIT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR FROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT FRECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE

5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

## RETENTION OF RECORDS

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- a.A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD: b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE
- INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF d.A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS
- REQUIRED BY THIS PERMIT: e. A COPY OF ALL INSPECTION REPORTS GENERATED IN

PART IV.D.4.A.(2). OF THIS PERMIT

- ACCORDANCE WITH PART IV .D.4.A. OF THIS PERMIT;
- F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS q.DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND

DESIGN PROFESSIONAL'S CERTIFICATION:

PÓLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR

(2) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

PURSUANCE TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFY" OR "CERTIFICATION" RELATING TO ENGINEERING SERVICES SHALL MEAN A SIGNED STATEMENT BASED ON FACTS AND KNOWLEDGE KNOWN TO THE ENGINEER AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

BASS, PE GA NO. 34591 LEYEL/II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #17788

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE

THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF

THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES,

DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.

DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.

ENGINEER OF RECORD

CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN

PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL

SAID EROSION CONTROL MEASURES, IF UNFORESEEN CONDITIONS EXIST IN

THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION. THE

AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY

CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES.

SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING

PLANS WILL INSPECT THE INSTALLATION OF THE BMP'S WITHIN SEVEN

SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN

AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE

CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL

REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED

REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF TH

CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH

WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY.

THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS

CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED. OR

WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF

EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT

SEDIMENT SOURCE AS DIRECTED BY THE ON-SITE INSPECTOR OR THE

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL

MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON TH

JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL

CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP

SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL

DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED

THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS

PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS

ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS

FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH

PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT

THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED

CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY

REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO

PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER

CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION)

EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

2.COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION

INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL

OR OTHER REPORTS REQUESTED BY THE EPD. EROSION.

TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH

FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR

CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE

AFTER FACH RAIN EVENT, FACH DEVICE IS TO BE MAINTAINED OR

THE GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND

171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION,

PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION

STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

STABILIZED WITH TEMPORARY VEGETATION.

NEW CHANNELS HAVE DEVELOPED

MUST BE REMOVED IMMEDIATELY.

EROSION CONTROL PLANS

THE PERMITTEE.

SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE

THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH

PHASE PLAN TO CONTROL EROSION AND STORMWATER RUNOFF.

GRADING PHASE - PHASE 2

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

CRITICAL WORK ZONE EROSION CONTROL NOTES

SURFACE ROUGHENING, POLYMERS, AND SLOPE STABILIZATION.

PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND

SHADED AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS

ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE

ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND

TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING

DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE

RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.

SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH

REPRESENT CRITICAL WORK ZONES. AT THE END OF EACH WORK DAY

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFU SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES. AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE FROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING

YPE "C" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORMWATER RUNOFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHAL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION RECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION. TYPE "A" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT

STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE ½ DEPTH OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER FACH RAIN EVENT, FACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

FINAL PHASE - PHASE 3 EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE LL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE

STABILIZED WITH TEMPORARY GRASSING. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND OVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN NSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON-SITE INSPECTOR OR THE

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE APPROVED NOTICE OF TERMINATION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED DIFFERENTLY ON PLANS.

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. 100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE.

AUTHORIZED DISCHARGES

1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE

2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE

3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART I.C.2 A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE

B. THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT

C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES

4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2

LIMITATIONS ON COVERAGE PART LC.3

A FIRE FIGHTING ACTIVITIES B. FIRE HYDRANT FLUSHING POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING IRRIGATION DRAINAGE AIR CONDITIONING CONDENSAT

G. UNCONTAMINATED GROUND WATER
H. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT A. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER

CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED

DISCHARGES) OF THIS PERMIT. C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC

D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

LIMITATIONS FOR SUCH DISCHARGES.

IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN

COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER

2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE-MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4863 OR (800) 241-4113, OR THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802.

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ONSITE SPILL. PART III.B.2

WATER QUALITY COMPLIANCE PART I.C.4 ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER

SAMPLING REQUIREMENTS PART IV.D.6

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED). THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. 3. LARGE MOUTH. WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD

BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. 4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS

UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR \*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES."

"EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."

"ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

<u>WARNING:</u> THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR

PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE

SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS

BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE

6. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN

DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE

IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER

DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST

UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER

APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING

WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE

TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE

FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM

AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT

ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL

DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED

TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE

8. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND

RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

12. PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO

AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS

11. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER

9. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE

10. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES

UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR

PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS

LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT

LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES

AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION

(INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING,

AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE

13. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY

AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT

QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF

2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS

MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE

DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE

PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING

3.a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER

OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR

EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS

AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE

3.c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B)

LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES

ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A

RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED

INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND

IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES

SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR

FACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH.

DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY

DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND

3.d. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED

BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO

DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING

. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET

WITH (B), THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET

THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO

CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C)

OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS

DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6)

MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF

Y SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION

THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE

3.b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT

DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER

ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE

RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER

DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED

ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR

FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES

RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE

STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS

LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A

SAMPLING FREQUENCY PART IV.D.5.d

STORMWATER DISCHARGE.

MAINTAINED:

OF THE DAY OR WEEK.

HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL

SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN

(UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED

SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

UPSTREAM.

7. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN

REPORTED TO EPD AS SPECIFIED IN PART IV.E.

TO EXCAVATION. NOTICE: IT IS THE PROPERTY OWNER'S/ ONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL MPACT ISSUES AND TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES



**ENGINEERING** LAND SURVEYING LAND PLANNING

105 CORPORATE DRIVE CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005

E-MAIL: mailbox@georgiaandwest.com



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Description 100% CONSTR. DOCS

**Mulberry Street Cemetery** 

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EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

09 FEBRUARY, 2024 LMW Drawn by JDB Checked by

C-3E.0

Scale

N.T.S.

## EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPCP):

This plan was prepared as required by NPDES General Permit No. GAR 100001. These plan sheets and all requirements of the General Permit as well as Local, State, and Federal regulations or laws apply regardless of specific inclusion in this plan.

OF Lagrange as Primary Permittee will oversee site construction located within the Property situated in Practices such as good housekeeping, proper handling of hazardous products and proper spill control practices Land lots 116,141 of District 6, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA. The magnitude of the entire development contains 2.0 acres.

Property to be developed as a beautification of an existing cemetery.

## Zoning This site is zoned N/A.

NGS Monument: OPUS

<u>Survey Information</u>
Boundary information: Obtained from field survey performed by Georgia and West, Inc.

## Topographic information: Obtained from field survey performed by Georgia and West, Inc.

Vertical: NAVD 88 TBM: Top F.H. Operating Nut, Elev.: 717.11

Flood Insurance Rate Map, Panel 13285C0143E, Dated 07/03/2012, shows the site to be in Zone X (no base flood elevations determined) Runoff Coefficient

Weighted pre-construction CN curve number: 65 \* Weighted post-construction CN curve number: 65

## Soil Types The NRCS soil types are shown on the Erosion Control Plans

Soil Disturbing Activities Include:

-Installing a stabilized construction exit, perimeter and other erosion and sediment controls -Clearing and grubbing

-Excavation of the foundation Grading and excavation for utilities

-Preparation for final planting and seeding -Completion of on-site stabilization

## Sequence of Major Activities See Construction Schedule

<u>Name of Receiving Waters</u> Tributary of Blue John Creek

### CONTROLS **Erosion** and Sediment Controls

All perimeter silt fences and construction exits shall be in place prior to any land disturbing activities.

Existing vegetation shall be left in place until such time that land disturbing activities are to take place upon that portion of the site. When construction activities have ceased in an area, that area shall be stabilized within 14 days. If the area is not yet to final grade, it shall be mulched. If the area is to final grade and will eventually contain site improvements such as the structures or sidewalks, it shall be temporary seeded. Areas brought to final grade that will remain pervious are to be permanently seeded. Allowable exceptions

"Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable."

Please refer to Detail Sheets for the land disturbance construction schedule and temporary and permanent grassing schedules.

Storm water from this development will be routed through the proposed storm water system and grass swales to a tributary of Blue John Creek.

NON-STORM WATER DISCHARGES

All non—storm water discharges will be routed through on site BMPs and the storm water management system where possible. These discharges include flushing of water and fire lines, irrigation water, ground water, dewatering of pits or depressions within the construction site and rinse off water of non-toxic

## OTHER CONTROLS WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE. EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the Contractor will be responsible for seeing that these procedures are followed.

trash will be hauled as required by local regulations. No construction waste will be buried onsite

<u>Building Materials</u>
Building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site, provide cover (e.g. plastic sheeting, temporary roofs) to minimize the exposure of these products to precipitation and to stormwater, or a similarly effective means designed to minimize the discharge of pollutants from these areas. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk to stormwater contamination (such as final products and materials intended for outdoor use).

## Hazardous Wastes

All hazardous waste materials will be disposed of in the manner specified by local, state, and /or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. A MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with stormwater discharges. such contact occurs, the stormwater discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated stormwater. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

Sanitary Wastes A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in one area where the likelihood of the unit contributing to storm water discharge is negliaible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm The location of sanitary waste units must be identified on the Erosion Control Plan Grading Phase, by the contractor once the locations have been determined.

Sanitary Sewer will be provided by Municipal Authority System at the completion of this project. No permanent waste disposal, sanitary sewer, or septic tanks shall be installed without obtaining all necessary approvals of local and/or state regulations.

Offsite Vehicle Tracking

A stabilized construction exit has been provided to help reduce vehicle tracking of sediment. See Sheet C-3A.O. C-3B.O. & CD-3.O for construction exit location and details. The paved street adjacent to the site exit will be inspected daily for tracking of mud, dirt or rock. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

## INVENTORY FOR POLLUTION PREVENTION PLAN

The following materials are expected onsite during construction: Concrete products, asphalt, petroleum based fuels and lubricants for equipment, tar, metal building materials, lumber, sheet rock, floor coverings, electrical wire and fixtures, paints/stains/finishing treatments, paints, paint solvents, additives for soil stabilization, cleaning solvents, pesticides, fertilizers, herbicides, crushed stone, plastic and metal pipes.

will be followed to reduce the risk of spills and spills from discharging into storm water runoff.

- 1. Quantities of products stored onsite will be limited to the amount needed for the job. 2. Products and materials will be stored in a neat, orderly manner in appropriate containers protected from
- 3. Products will be kept in their original containers with manufacturer labels legible and visible. 4. Product mixing, disposal and disposal of product containers will be according to the manufacturer's
- 5. The Contractor will inspect such materials to ensure proper use, storage and disposal.

### **Product Specific Practices**

Petroleum Based Products - Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and state

Paints/Finishes/Solvents - All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and

Concrete - NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite. Wash greas for washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles, if used, will consist of an enclosed waste collection area that will contain the concrete wash until it hardens then disposed of into the onsite construction waste bin.

Fertilizer/Herbicides - These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers. Building Materials - No building or construction materials will be buried or disposed of onsite. All such material

Spill Cleanup and Control Practices

- Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel. Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical
- materials and equipment includes, but is not limited to , brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly labeled plastic and metal waste containers. Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, state and federal regulations. • FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE
- CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. • FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. • FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The Contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The Contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.

## **INSPECTIONS**

1. Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking .. These inspections must be conducted until a Notice of Termination is submitted.

- 2.Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. 3. Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or areater (unless such storm ends after 5:00 PM on any Friday or on any non—working Saturday, non—working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable \*\*A COPY OF THE REPORT(S) SHALL BE SENT TO THE OWNER/DEVELOPER AND THE PROJECT INSPECTOR.\*\* to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D .4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
- 4. Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

5.Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection. The primary permittee must amend the Plan in accordance with Part IV.D.4.b.(5), when a secondary permittee notifies the primary permittee of any Plan deficiencies.

6. A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify al incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.C.2. of this permit.

## Secondary Permittee (See List of Permittees on Cover Sheet)

1. Each day when any type of construction activity has taken plance at a secondary permitteee's site, certified personnel provided by the secondary permittee shall inspect: (a) all areas used by the secondary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the secondary permittee site where that permittee's vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

2. Certified personnel (provided by the utility companies and utility contractors if they are secondary permittees) shall inspect the following each day and type of construction activity has taken place at the construction site: (a) areas of the construction site disturbed by the utility companies and utility contractors that have not undergone final stabilization; (b) areas used by the utility companies and utility contractors for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the utility companies and utility contractors' construction activities shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors when they are secondary permittees performing service line installations or when conducting repairs on existing line installations. The certification

requirements of this paragraph shall be applicable 90 days after the effective date of this permit. 3. Certified personnel (provided by the secondary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business achieved. Final stabilization applies to each phase of construction. Until this standard is satisfied and day and/or working day, whichever occurs first): (a) disturbed areas of the secondary permittee's construction site that have not undergone final stabilization; (b) areas used by the secondary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the

secondary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.b.(4). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees.

4. Certified personnel (provided by the secondary permittee) shall inspect at least once per month during the term of this permit (i.e. until a Notice of Termination has been submitted) the greas of their sites that have undergone final stabilization. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not

- applicable to utility companies or utility contractors if they are secondary permittees. 5. Based on the results of each inspection, the secondary permittee must notify the primary permittee within 24—hours of any suspected BMP design deficiencies. The primary permittee must evaluate whether these deficiencies exist within 48—hours of such notice, and if these deficiencies are found to exist must amend the Plan in accordance with Part IV.C. of this permit to address those deficient BMPs within seven (7) days of being notified by the secondary permittee. When the Plan is amended, the primary permittee must notify and provide a copy of the amendment to all affected secondary permittee(s) within this seven (7) day period. The secondary permittees must implement any new Plan requirements affecting their site(s) within 48—hours of notification by the primary permittee.
- 6. A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan and actions taken in accordance with Part IV.D.4.b.(5) of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of non-compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit. This paragraph is not applicable to utility companies and utility contractors if they are secondary permittees performing only service line installations or when conducting repairs on existing line installations.

### Tertiary Permittee Each day when any type of construction activity has taken place at a tertiary permittee's site, certified personnel provided by the tertiary permittee shall inspect: (a) all areas used by the tertiary permittee where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; and (b) all locations at the tertiary permittee site where that permittee's vehicles enter or exit the site

- evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies or utility contractors performing only service line installations or when conducting repairs on existing line installations. Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for
- 3. Certified personnel (provided by the tertiary permittee) shall inspect at least the following once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non—working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the tertiary permittee's construction site that have not undergone final stabilization; (b) areas used by the tertiary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the tertiary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week. a site that have undergone final stabilization, the permittee must comply with Part IV.D.4.c.(3). These inspections must be conducted until a Notice of Termination is submitted. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.
- Certified personnel (provided by the tertiary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of their site that have undergone final stabilization. These greas shall be inspected for evidence of, or the potential for. pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.
- Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following A report of each inspection that includes the name(s) of personnel making each inspection, the date(s)
- of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance shall be made and retained at the site or be readily available at a designated alternate location until the entire site has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall identify any incidents of -compliance. Where the report does not identify any incidents of non-compliance, the report shall contain a certification that the construction site is in compliance with the Erosion. Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G. of this permit. This paragraph is not applicable to utility companies and utility contractors performing only service line installations or when conducting repairs on existing line installations.

Daily, weekly and storm event inspection reports shall be prepared and maintained in accordance with the

MAINTENANCE & INSPECTION OF EROSION & SEDIMENTATION CONTROLS The following best management practice maintenance criteria are taken from the "Manual for Erosion and

Sediment Control in Georgia", Fifth Edition. Construction exits shall be maintained in a condition that will prevent tracking or flow of mud onto public rights—of—way. This may require periodic top dressing with 1.5 - 3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked

from vehicles or site onto roadways or into storm drains must be removed immediately. Retrofit structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one-third of the sediment storage capacity has been

Sediment shall be removed from silt fences once it has accumulated to one-half the original height of the barrier. Filter fabric shall be replaced whenever it has deteriorated to such an extent that the effectiveness of the fabric is reduced (approximately six months).

Sediment shall be removed from sediment traps when the sediment has accumulated to one—half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one—half of the sediment storage capacity has been lost to Sediment shall not be washed into the inlet. It shall be removed from the sediment trap and disposed of

and stabilized so that it will not enter the inlet, again When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

Repair all damages caused to temporary sediment basins by soil erosion or construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. Sediment shall not enter adjacent streams or drainage ways during sediment removal or disposal. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain.

Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage. Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

Permanent vegetation shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures, at least 70% of the soil surface is uniformly covered in permanent vegetation or equivalent permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

## STORMWATER SAMPLING

SAMPLE ANALYSIS Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled 'NPDES Storm Water Sampling Guidance Document, EPA 833-8-92-001.

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding the allowable amount specified in the monitoring site chart. The NTU is based upon the disturbed acreage of each monitoring site's drainage basin for the project site, the surface water drainage area of each monitoring site in square miles, and receiving water which supports warm water fisheries.

All sampling shall be collected by 'grab samples' and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled 'NPDES Storm Water Sampling Guidance Document, EPA 8.33-8-92-001' and guidance documents that may be prepared by EPD.

Per NPDES Permit, GAR 100001, 'Sample containers should be labeled prior to collecting the samples. Samples should be well mixed before transferring to a secondary container. Large mouth, well-cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleansed thoroughly to avoid contamination. Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled. Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV. E.

Sampling Points
There will be 3 storm water sampling locations. See Erosion Control Plan sheets for exact locations. Per NPDES Permit GAR 100001, for construction activities, the Primary Permittee must complete all sampling.

Appendix B was used to determine the NTU units allowable and upstream and downstream sampling will be performed for this project. • Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel. • The sampling container should be held so that the opening faces upstream. The samplings should be kept free from floating debris.

• The Primary Permittee does not have to sample sheet flow onto undisturbed natural areas or areas stabilized by the project.

<u>Sampling Frequency</u>
Storm water samples shall be taken for the following storm events:

a. For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the

- b. In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first; At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water
- or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours\* until the selected turbidity standard is attained, or until post—storm event aspections determine that BMPs are properly designed, installed and maintained; Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not
- performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; . Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by

(b) above shall not be required to conduct additional sampling other than as required by (c) above. \*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event

A monthly summary of the monitoring results shall be sent to by the 15th of each month. The applicable permittees are required to submit the sampling results to CITY OF LaGRANGE and Georgia Environmental Protection Division at the address's shown below by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

All sampling reports shall include the following information The rainfall amount, date, exact place and time of sampling or measurements; The name(s) of the certified personnel who performed the sampling and measurements;

The date(s) analyses were performed; The time(s) analyses were initiated;

The name(s) of the certified personnel who performed the analyses; References and written procedures, when available, for the analytical techniques or methods used; The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these

Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and Certification statement that sampling was conducted as per the Plan All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the

proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from mencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service. Addresses are provided below:

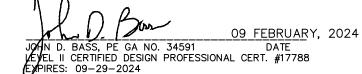
> Georgia Environmental Protection Division West Central District (Macon) 2640 Shurling Drive Macon, GA 31211-2629

ATTN: CITY OF LaGRANGE	

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The contractor will obtain copies of any and all local and state regulations that are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The contractor will submit written evidence of such compliance if requested by the Owner or any agent of a regulatory body. The contractor will comply with all conditions of any and all local, state and federal agencies have governing authority, including the conditions related to maintaining the ESPCP and evidence of compliance with the ESPCP at the job site and allowing regulatory personnel access to the job site and to records in order to determine

1 certify that the permittee's Erosion. Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document Manual for Erosion and Sediment Control n Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land—disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the stormwater outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NRDES Permit No. GAR100001."



\*\*\*THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION. CONTRACTOR MUST CONTACT DESIGN PROFESSIONAL IMMEDIATELY ONCE BMP'S ARE INSTALLED.\*\*\*

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION DATE OF INSPECTION \_\_\_

I Certify the site was / was not in compliance with the ES&PC Plan on the date of inspection.

JOHN D. BASS, PE GA NO. 3459 LEVEL II CERTIFIED DESIGN PROFESSIONAL CERT. #17788 Inspection revealed the following discrepancies from the ES&PC Plan.

These deficiencies must be addressed immediately and a re—inspection scheduled. Work shall not proceed on the site until Design

GEORGIA & WEST, INC.

<u>WARNING:</u> THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR

NOTICE: IT IS THE PROPERTY OWNER'S/

CONTRACTOR'S RESPONSIBILITY TO

NECESSARY PERMITS FROM THE

COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL

APPROPRIATE GOVERNING AUTHORITIES

TO EXCAVATION.

**ENGINEERING** LAND SURVEYING LAND PLANNING

105 CORPORATE DRIVE CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005

E-MAIL: mailbox@georgiaandwest.com



Z A S S 30.

No.	Description	Date
	Description 100% CONSTR. DOCS	03.08.24
	FOR BID	05.31.24
0	2024 COPYRIGHT Georgia & West, I	nc.

**Mulberry Street Cemetery** 

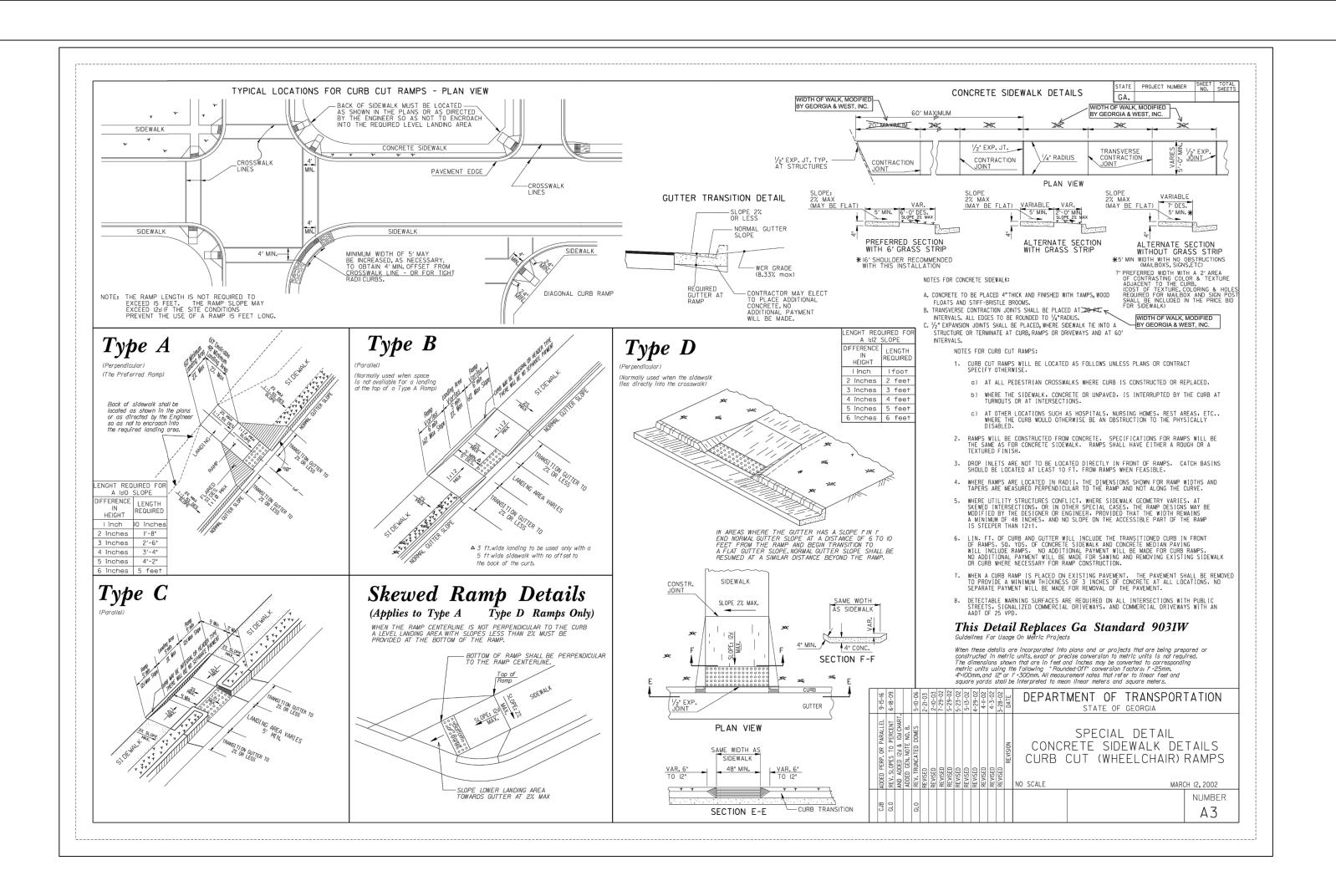
EROSION, SEDIMENTATION & POLLUTION CONTROL **NOTES** 

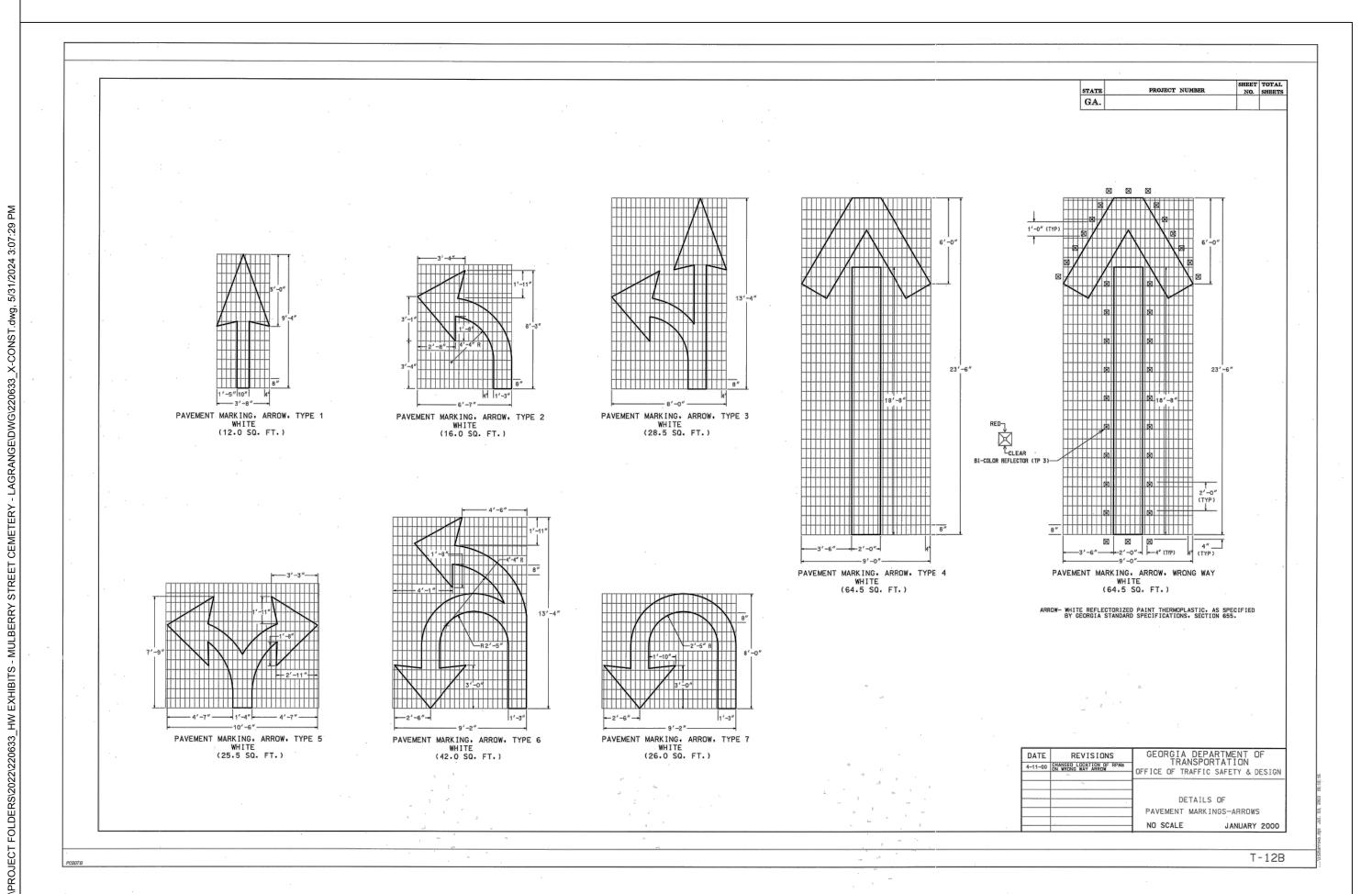
Date	09 FEBRUARY, 2024
Drawn by	LMW
Checked by	JDB

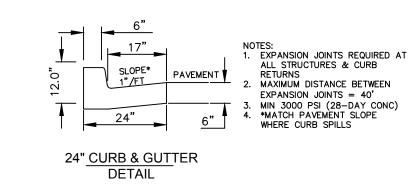
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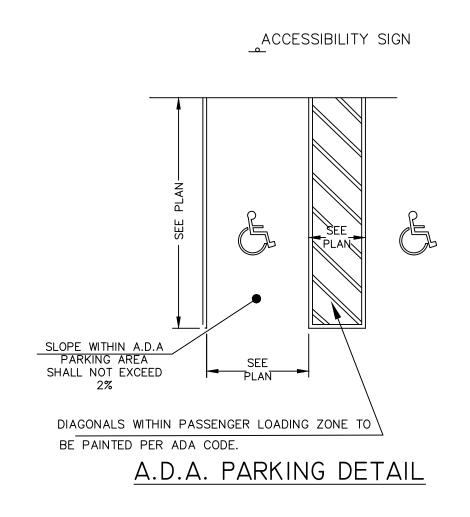
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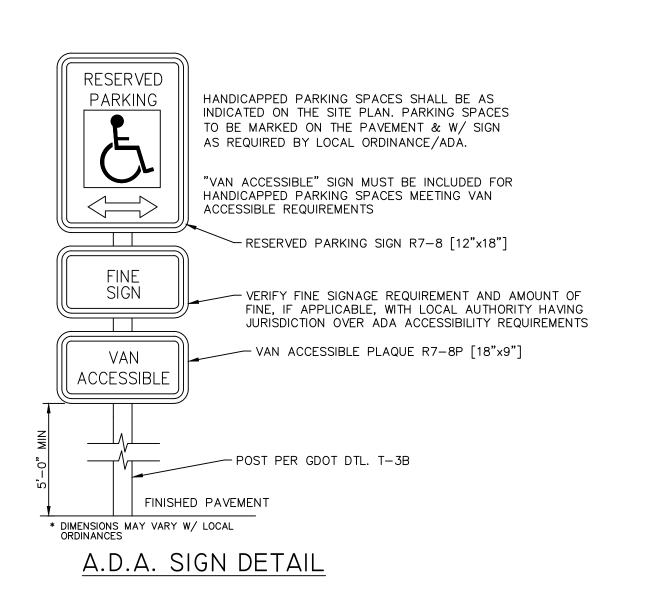
Scale













WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT

APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL

NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES.

**ENGINEERING** LAND SURVEYING LAND PLANNING

CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com

105 CORPORATE DRIVE



No.	Description	Date
	100% CONSTR. DOCS	03.08.2
	FOR BID	03.08.2 05.31.2
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(C)	2024 COPYRIGHT Georgia & West,	lno.
<u>U</u>	2024 COFTRIGHT Georgia & West,	IIIC.

**Mulberry Street Cemetery** 

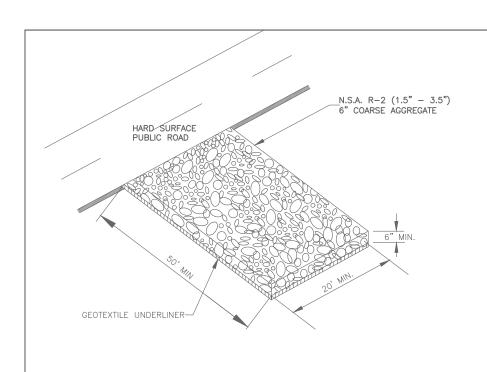
SITE DETAILS

Date	09 FEBRUARY, 2024
Drawn by	LMW
Checked by	JDB

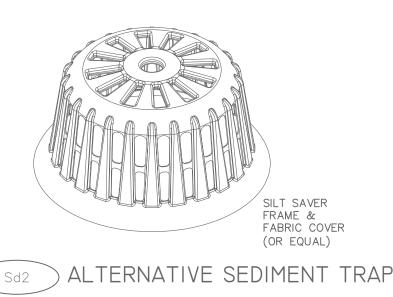
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Scale

N.T.S.



CRUSHED STONE CONSTRUCTION EXIT



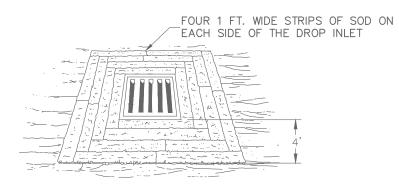


FIG. 6-14.6 - SOD STRIPS PROTECT INLET AREA FROM EROSION (SOURCE VA SWCC) SOD INLET PROTECTION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

Vegetative Cover. See standard Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Terratack should be used according to manufacturer's recommendations.

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may

Mulches. See standard Ds4 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb-Tackifiers and Binders. Resins such as Curasol or

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches

apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet.

Barriers. Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15

Permanent Vegetation. See standard Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees

DEFINITION

METHOD AND MATERIALS

to standard Tb-Tackifiers and Binders.

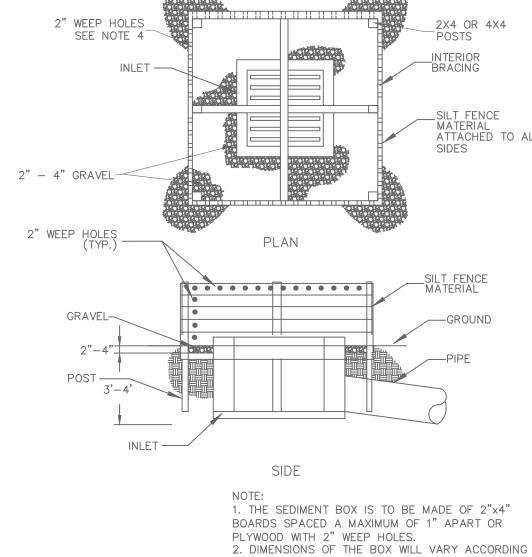
and large shrubs may afford valuable

protection if left in place.

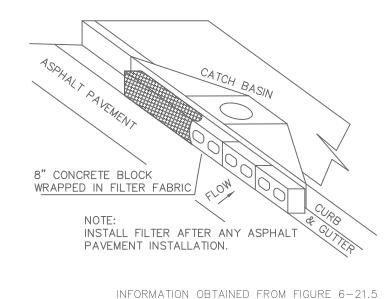
times their height are effective in controlling wind erosion.

Repeat as needed.

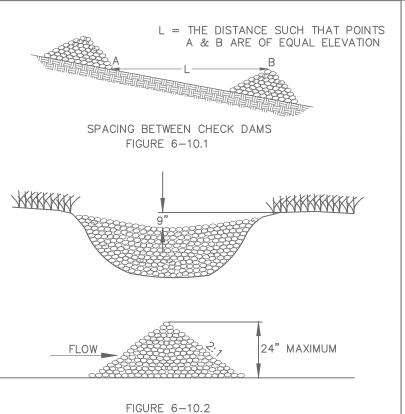
A. TEMPORARY METHODS

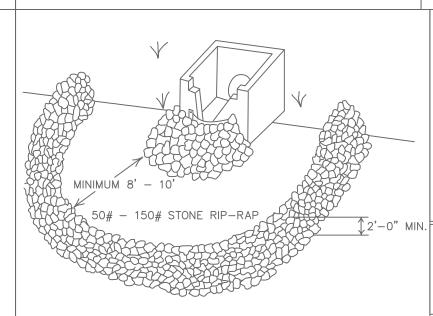


TO THE SIZE OF THE INLET AND THE DEPTH OF THE 3. PLACE GRAVEL INSIDE OF THE BOX ALL AROUND THE INLET TO A DEPTH OF 2-4". BAFFLE BOX 4. SPACE THE WEEP HOLES APPROXIMATELY 6" O.C. HORIZONTAL WHERE PLYWOOD IS USED.



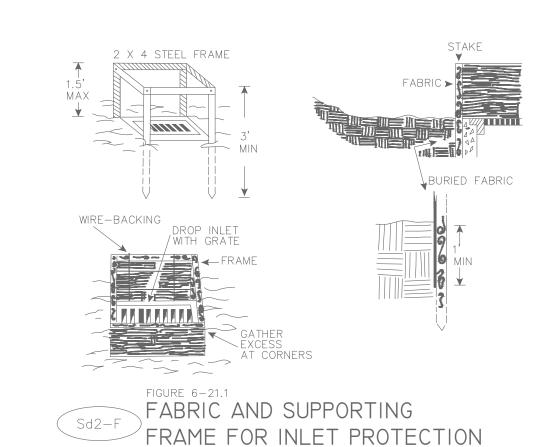
INFORMATION OBTAINED FROM FIGURE 6-21.5"PIGS IN BLANKET"

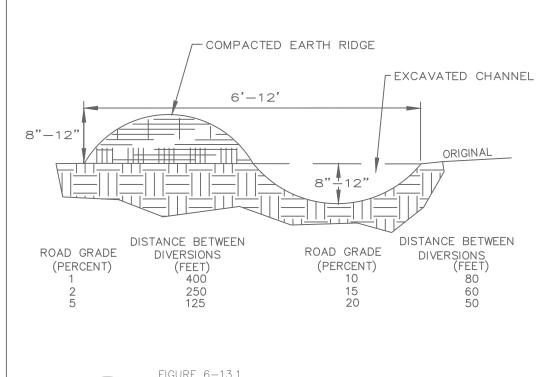




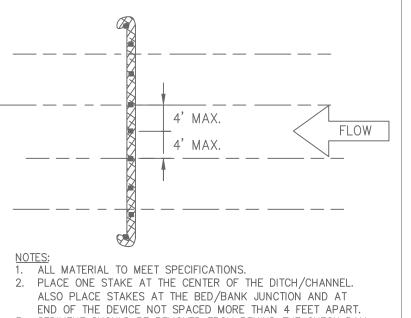
STONE CHECK DAM

FIGURE 6-15.1 STONE FILTER RING





DIVERSION CHANNEL



SEDIMENT SHOULD BE REMOVED FROM BEHIND THE CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT

4. CHECK DAMS CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION. MINIMUM STAKING DEPTH FOR SAND, SILT, AND CLAY SHALL

(Cd-Fs) FILTER SOCK CHECK DAM

DISTU	JRBED STABILIZATION	(DS1)			
MULCH	PLANT RESIDUES OR OTHER SUITABLE MATE ON THE SITE IF POSSIABLE, TO THE SOIL SI SELECT ONE OF THE FOLLOWING MATERIALS THE DEPTH INDICATED:  1. DRY STRAW OR HAY SHALL BE APPLIED A TO 4 INCHES PROVIDING COMPLETE SOIL (ADVANTAGE OF THIS MATERIAL IS EASY A 2. WOOD WASTE (CHIPS, SAWDUST OR BARK, AT A DEPTH OF 2 TO 3 INCHES. ORGANIC THE CLEARING STAGE OF DEVELOPMENT SITE, BE CHIPPED, AND APPLIED AS MULC MULCHING CAN GREATLY REDUCE EROSION 3. CUTBACK ASPHALT (SLOW CURING) SHALL 1200 GALLONS PER ACRE (OR 1/4 GALLO 4. POLYETHYLENE FILM SHALL BE SECURED (STOCKPILED SOIL MATERIAL FOR TEMPORATHIS MATERIAL CAN BE SALVAGED AND R	JRFACE. AND APPLY AT  AT A DEPTH OF 2 COVERAGE. ONE PPLICATION. ISHALL BE APPLIED OMATERIAL FROM HOULD REMAIN ON H. THIS METHOD OF I CONTROL COSTS. L BE APPLIED AT N PER SQ.YD.). DVER BANKS OR RY PROTECTION.			
TEMP	TEMPORARY VEGATATIVE PLAN (DS2)				

SPECIES	1000 S.F.	DATES	FERTILIZER	1000 S.F.	
MILLET	1-2 LBS	5-15 TO 8-31	6-12-12	25-35 LBS	
RYE	2-3 LBS.	10-15 TO 2-15	6-12-12	25-35 LBS	
PERMANENT	GRAS	SING PLA	. М (	(DS3)	
SPECIES	RATE/ 1000 S.F.	DATES:	FERTILIZER	RATE/ 1000 S.F.	
WEEPING LOVEGRASS &	.24- LB				
VIRGATA OF SERICEA LESPEDEZIA (SCARIFIED)	1-2 LB.	3-1 TO 6-15	6-12-12	25-35 LBS	
ALL FESCUE GRASS	8-10 LB.	9-1 TO 11-1	6-12-12	25-35 LBS.	
BERMUDA GRASS (HULLED) (UNHULLED)	1-2 LB. 2-3 LB.	3-15 TO 6-15 10-01 TO 3-15	6-12-12 6-12-12	25-35 LBS. 25-35 LBS.	
STRAW MULCH	90 LB.	ANY TIME FOR	TEMPORY C	OVER.	

PER 1000 S.F. LIME & FERTILIZER TO BE APPLIED AT THE RATE OF 90 LBS PER 1000 S.F. LIME & FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
ALL AREAS SEEDED SHALL HAVE AN APPLICATION OF STRAW MULCH IMMEDIATELY AFTER APPLICATION OF SEED & FERTILIZER. APPROXIMATELY 2 TONS PER ACRE. PERMANENT GRASSING OCT. - JUNE, ALL OTHER MONTHS USE TEMPORARY GRASSING & REPLANT.

USE TEMPORARY GRASSING IF INACTIVE DISTURBED AREA IS TO BE EXPOSED FOR MORE THAN 14 DAYS.

REFER TO TABLE 6-5.1,2,3,& 4 FOR COMPLETE VEGETATIVE CHARTS AND FERTILIZER REQUIREMENTS.

PERMANENT GRASSING FOR FINAL SITE STABILIZATION MUST ACHIEVE A DENSITY OF 70% OR GREATER OVER 100% OF THE DISTURBED AREA.

# NECESSARY PERMITS FROM THE APPROPRIATE GOVERNING AUTHORITIES **GEORGIA** UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running

A structure to convert concentrated flow water into less erosive sheet flow. This should be constructed only on undisturb

A device or structure placed in front of a permanent stormwater detention pond outle structure to serve as a temporary sedime

completion of construction activities.

(ad3) A basin created by excavation or a dam across a waterway. The surface water rur

disturbed area so that sediment can settl out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or ris

from the surface of sediment ponds, traps, basins at a controlled rate of flow.

bales of straw or hay, brush, logs and pole gravel, or a silt fence.

			1115						111	
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	СО	DE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
					_					
Cd	) CHECKDAM		F	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.	S	(J	TEMPORARY STREAM CROSSING		(LAREL)	A temporary bridge or culvert—type structure protecting a stream or wate from damage by crossing construction equipment.
Ch	CHANNEL STABILIZATION		<b>A</b>	Improving, constructing or stabilizing an open channel, existing stream, or ditch.	S	t)	STORMDRAIN OUTLET PROTECTION		St	A paved or short section of riprap ch at the outlet of a storm drain system preventing erosion from the concentra runoff.
Co	CONSTRUCTION EXIT		(LASEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.	Si	(F)	SURFACE ROUGHENING		⊢(Su)−l	A rough soil surface with horizontal depressions on a contour or slopes le roughened condition after grading.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr.	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on—site vehicle transportation routes.	To	(c)	TURBIDITY CURTAIN		To	A floating or staked barrier installed wi the water (it may also be referred to a floating boom, silt barrier, or silt curta
Dc	STREAM DIVERSION CHANNEL		*	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	T	9	TOPSOILING		(SHOW STRPING AND STORAGE AREAS)	The practice of stripping off the more soil, storing it, then spreading it over disturbed area after completion of construction activities.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.	T	(J	TREE PROTECTION VEGETATED	$\odot$	(DENOTE TREE CENTERS)	To protect desirable trees from injury of construction activity.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (LABEL)	A flexible conduit of heavy—duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.	w	/t)	WATERWAY OR STORMWATER CONVEYANCE		<del></del>	Paved or vegetative water outlets for diversions, terraces, berms, dikes or sin structures.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.	Ι -					

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (LABEL)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	3 Brange g g g g g g g g g g g g g g g g g g	Cs	Planting vegetation on dunes that are denude artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	11/1/2 P B	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND		Tac	Substance used to anchor straw or hay mulch by causing the organic material to

EROSION AND SEDIMENT CONTROL (Sd1-NS)

AREA TO BE PROTECTED

COMPOST FILTER SOCK

NOTE: SEE PLAN FOR FILTER SOCK SIZE

# STRUCTURAL PRACTICES

WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.

WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

NOTICE: IT IS THE PROPERTY OWNER'S/ CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL ENVIRONMENTAL IMPACT ISSUES AND TO OBTAIN ALL

GEORGIA & WEST, INC.

**ENGINEERING** 

LAND SURVEYING

LAND PLANNING

105 CORPORATE DRIVE

CARROLLTON, GA. 30117

OFFICE (770) 834-4694 FAX (770) 834-1005

E-MAIL: mailbox@georgiaandwest.com

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		(LAREL)	A temporary bridge or culvert—type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		§1)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		⊢Su)−1	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN	M	To	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Тр	TOPSOILING		(SHOW STRIPING AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION	$\odot$	(DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE		<del></del>	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEOL1/(IIVE I IV(OTIOLO					
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	
Bf	BUFFER ZONE		Bf (LABEL)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surroundi an area of disturbance or bordering stream	
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	J. S.	Cs	Planting vegetation on dunes that are denu artificially constructed, or re-nourished.	
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not had a suitable growing season to produce an erosion retarding cover.	
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.	
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	11/1/2 B	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.	
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods or highly erodable or critically eroded lands.	
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.	
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.	
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.	
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosic and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.	
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.	

100% CONSTR. DOCS FOR BID

**Mulberry Street Cemetery** 

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# **EROSION CONTROL DETAILS**

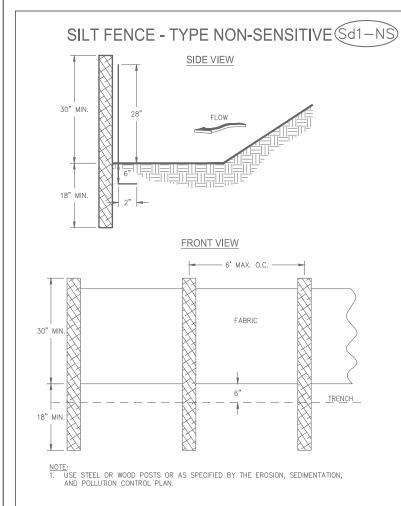
09 FEBRUARY, 2024 Drawn by Checked by

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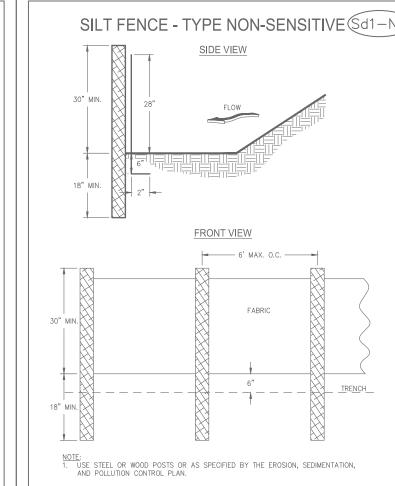
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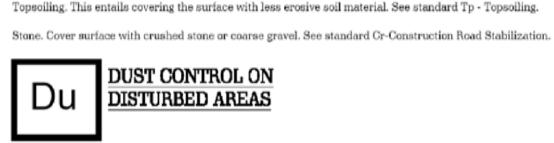
N.T.S.

FRONT VIEW 4' MAX. O.C. (WOVEN WIRE FENCE

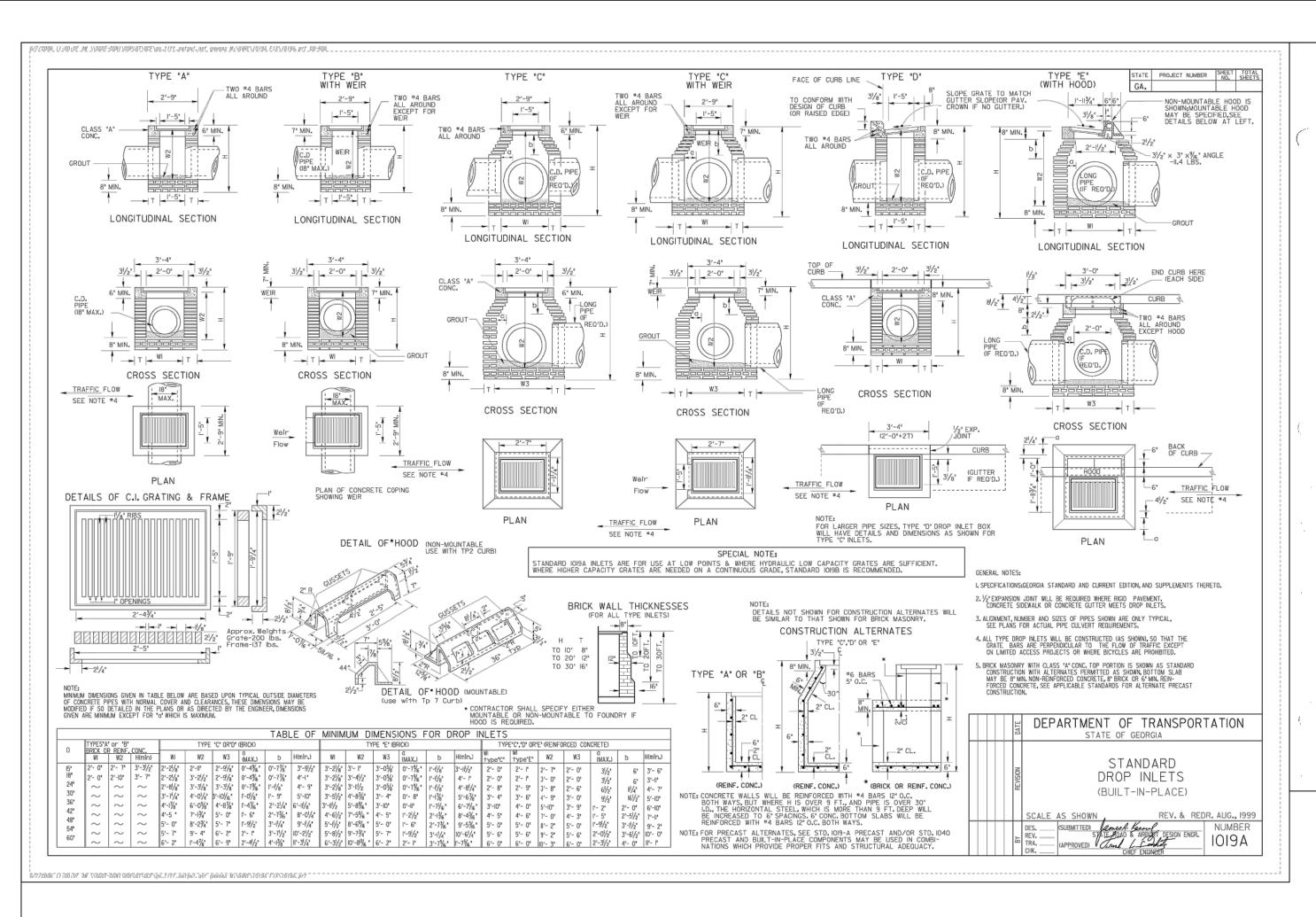


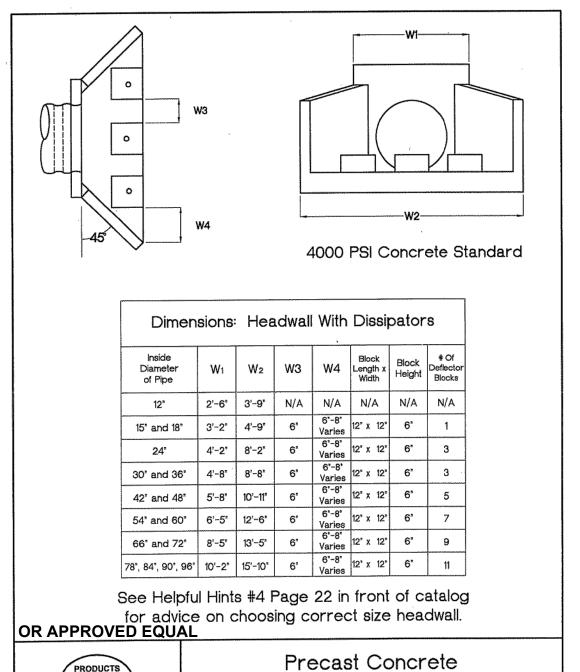
# SILT FENCE - TYPE SENSITIVE (Sd1-S) NOTE: 1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.





Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.





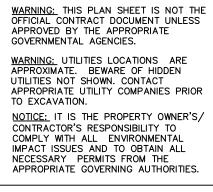
STORM-SQUARE

Headwalls with Dissipaters

ATE 01-24-02

RAWN BY DRM

PAGE # 3-31



GEORGIA & WEST, INC.

**ENGINEERING** LAND SURVEYING LAND PLANNING

CARROLLTON, GA. 30117 OFFICE (770) 834-4694 FAX (770) 834-1005 E-MAIL: mailbox@georgiaandwest.com

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	100% CONSTR. DOCS	03.08.24					
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IVI	Mulberry Street Cemetery						
		_					
	STORM SEWER						

**DETAILS** 

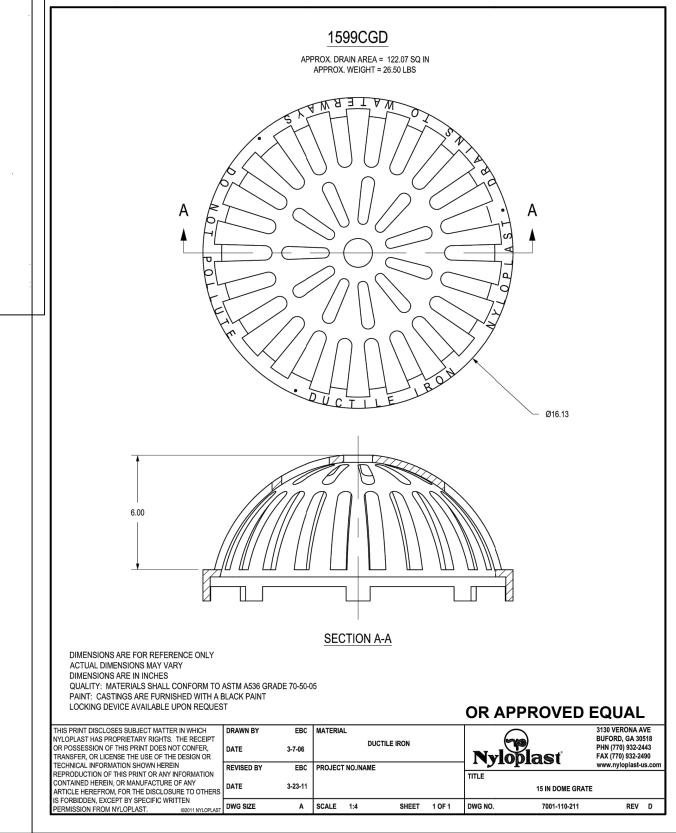
CD-3.0

Checked by

09 FEBRUARY, 2024

LMW

N.T.S.

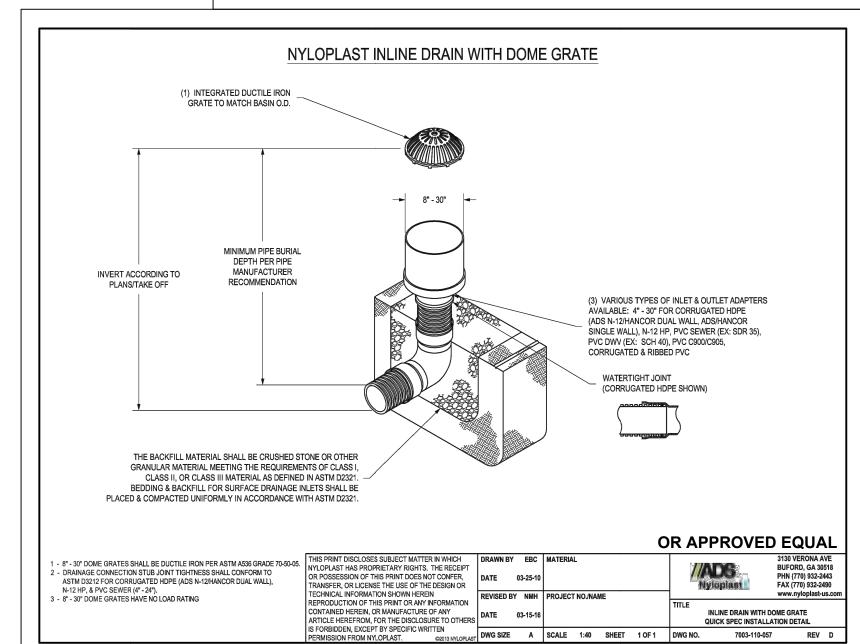


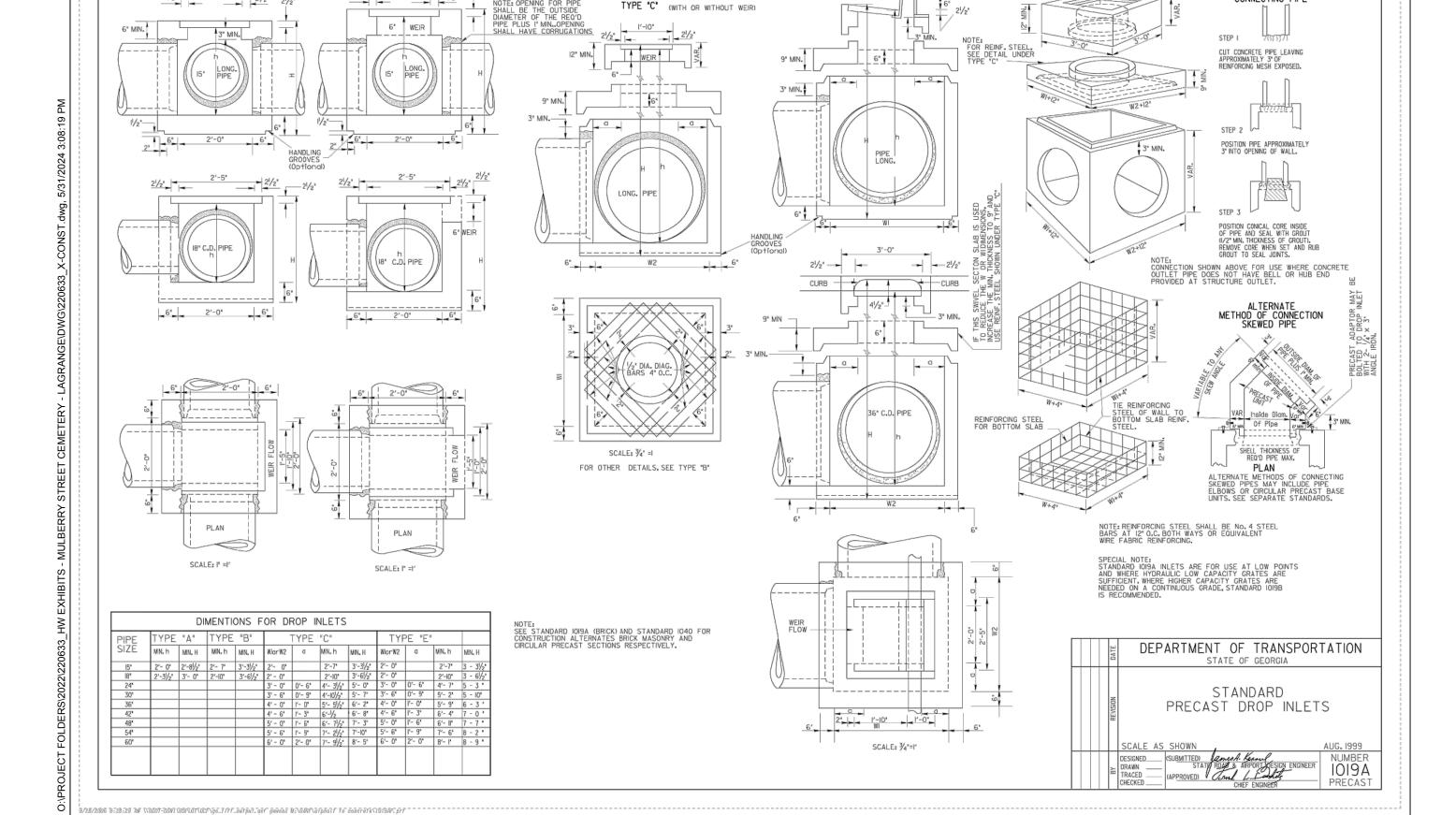


FOLEY

208 JEFFERSON STREET NEWNAN, GEORGIA 30263

TE PROJECT NUMBER NO. SHEETS





SEE STANDARD 1019-A- BRICK DROP INLETS- FOR DETAIL OF GRATING FRAME, HOOD, ETC., WHERE NEEDED.

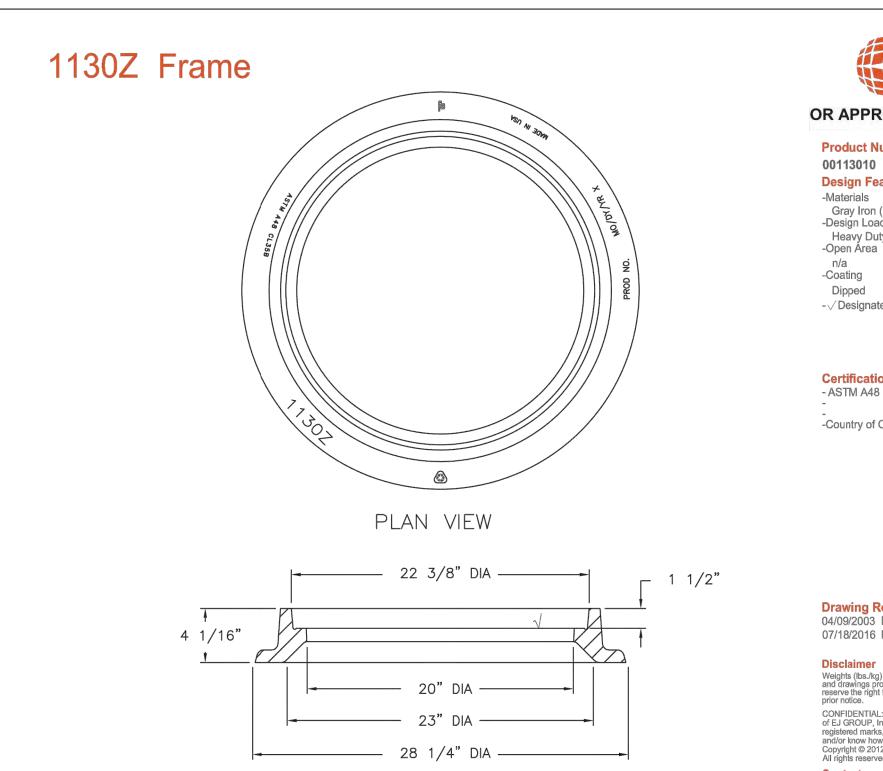
WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES. WARNING: UTILITIES LOCATIONS ARE APPROXIMATE. BEWARE OF HIDDEN UTILITIES NOT SHOWN. CONTACT APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION.

NOTICE: IT IS THE PROPERTY OWNER'S/
CONTRACTOR'S RESPONSIBILITY TO
COMPLY WITH ALL ENVIRONMENTAL
IMPACT ISSUES AND TO OBTAIN ALL
NECESSARY PERMITS FROM THE
APPROPRIATE GOVERNING AUTHORITIES.



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FRAME SECTION

1205 O2 Grate



Dipped - √ Designates Machined Surface

Certification - ASTM A48

-Country of Origin: USA

**Drawing Revision** 04/09/2003 Designer: SBB 07/18/2016 Revised By: DVD

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice. CONFIDENTIAL: This drawing is the property of EJ GROUP, Inc., and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ GROUP, Inc. Copyright © 2012 EJ GROUP, Inc. All rights reserved.

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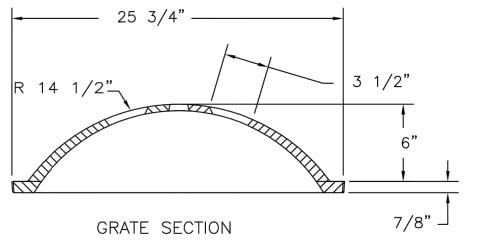
## **Product Number** 00120545 **Design Features**

-Materials Gray Iron (CL35B) -Design Load Heavy Duty -Open Area 185 sq in -Coating

Undipped - √ Designates Machined Surface

# Certification - ASTM A48 - AASHTO M306

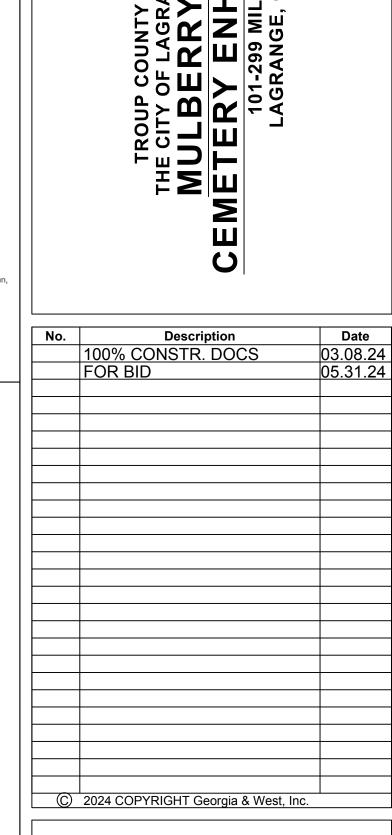
-Country of Origin: USA



# Drawing Revision 05/10/2005 Designer: DEW 01/09/2014 Revised By: DAE

**Disclaimer**Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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**Mulberry Street Cemetery** 

STORM SEWER DETAILS

09 FEBRUARY, 2024 Drawn by Checked by

Scale

CD-3.1

N.T.S.

## GENERAL NOTES:

- THE SCOPE OF WORK FOR THIS PROJECT IS HISTORICALLY AND CULTURALLY SIGNIFICANT. ALL WORK PERFORMED SHALL NOT IMPACT OR DISTURB EXISTING GRAVE SITES, MARKERS, OR OTHER EXISTING STRUCTURES WITHOUT APPROVAL FROM OWNER.
- 2. CONTRACTOR TO COORDINATE WITH TROUP COUNTY ARCHIVISTS AND THE CITY OF LAGRANGE FOR FURTHER INSTRUCTIONS REGARDING WORK ADJACENT TO GRAVE SITES AND THEIR PROTECTION.
- 3. BASE INFORMATION INCLUDING BUT NOT LIMITED TO STREETS, RIGHT-OF-WAYS, PROPERTY LINES, AND TOPOGRAPHY WAS OBTAINED FROM ORIGINAL SURVEY FROM GEORGIA & WEST. INC. OSD ASSUMES NO LIABILITY FOR THE ACCURACY OF THE INFORMATION SHOWN HEREIN.
- 4. CONTRACTOR TO VERIFY ALL INFORMATION CONTAINED HEREIN PRIOR TO SUBMITTING BIDS AND NOTIFY LANDSCAPE ARCHITECT OR OWNER OF ANY DISCREPANCY PRIOR TO SUBMITTING BID.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN DISABILITIES ACT AND ALL NATIONAL, STATE AND LOCAL CODES. CONTRACTORS SHALL ACQUIRE AND PAY FOR ALL PERMITS, LICENSES, TAXES AND FEES REQUIRED. ALL CONTRACTORS SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICES, TOOLS, AND MISCELLANEOUS ITEMS REQUIRED FOR A FULLY COMPLETE PROJECT.
- 6. WHERE CONFLICT OCCURS BETWEEN CONSTRUCTION PLANS, CONSTRUCTION DETAILS, AND/OR FIELD CONDITIONS, CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING BID.
- 7. CONTRACTOR TO ENSURE THAT ALL APPLICABLE CONSTRUCTION AND LAND DISTURBANCE PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING ANY WORK.
- 8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION WITH UTILITY COMPANIES, ADJACENT LAND DEVELOPMENTS OR OTHER AFFECTED THIRD PARTIES.
- 9. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WORKING ON SITE.
- 10. CONTRACTOR TO INCLUDE ARBORIST SERVICES IN BASE BID. ARBORIST TO EVALUATE TREES ON SITE AND MAKE RECOMMENDATIONS REGARDING REMOVALS, FERTILIZATION AND PRUNING OF TREES ON SITE.
- 11. CONTRACTOR TO DELIVER, STORE AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION AND LOSS, INCLUDING THEFT AND VANDALISM.
- 12. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANING AND REPAIR OF DAMAGED PROPERTY OR PRODUCTS TO THE SATISFACTION OF THE OWNER.
- 13. ALL SURFACES SHALL PITCH TO DRAIN AWAY FROM GATHERING SPACES. PARKING AREAS. ACCESSIBLE ROUTES. AND BUILDINGS. SEE CIVIL PLANS.
- 14. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY, PRIOR TO SUBMITTING BID, FABRICATION OR THE ORDERING OF ANY ITEMS TO BE USED FOR THIS PROJECT.
- 15. FOR INFORMATION RELATING TO BUILT STRUCTURES, REFERENCE ARCHITECTURE PLANS.
- 16. FOR INFORMATION REGARDING INTERPRETIVE SIGNAGE REFERENCED HEREIN, PLEASE CONTACT ANDREW STEEVER AT HW EXHIBITS (917) 848-6155
- 17. CONTRACTOR TO COORDINATE WITH OWNER CONCERNING ATTIC STOCK OF PROJECT MATERIALS. PROJECT MATERIAL COSTS AS REQUESTED BY OWNER FOR ATTIC STOCK TO BE INCLUDED IN OVERALL CONTRACTOR BUDGET.
- 18. WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND OWNERS ACCEPTANCE UNLESS OTHERWISE NOTED.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AND SEALED BY THE LANDSCAPE ARCHITECT OF RECORD AND STAMPED "APPROVED FOR CONSTRUCTION." USE OF THIS DRAWING FOR QUANTITY TAKE-OFFS AND PRICING IS PRELIMINARY UNTIL ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.



Know what's **below**.

Call before you dig.

NO SUBSURFACE UTILITIES HAVE BEEN SURVEYED

**CONTRACTOR TO CALL 811** 

OWNER: VISIT LAGRANGE, INC. 206 RIDLEY, AVE. LAGRANGE, GA 30240 (706) 668-5555 CONTACT: KATHY TILLEY

NC.
OUTDOOR SPATIAL DESIGNATION LANDSCAPE ARCHITECTURE

1349 ASHLEY RIVER RD. CHARLESTON, SC 29407 843.733.3325 www.OSDLA.com

DESIGN LANDSCAPE ARCHITECT



TROUP COUNTY ARCHIVES &
THE CITY OF LAGRANGE, GEORGIA
IULBERRY STREET
TERY ENHANCEMENT
101 W MULBERRY ST.

Description DD SUBMISSION 11.18.22 DD SUBMISSION 2 02.09.23 3 DD SUBMISSION 3 03.28.23 4 50% CONSTR. DOCS 5 50% CONSTR. DOCS 09.29.23 01.26.24 95% CONSTR. DOCS 02.09.24 7 100% CONSTR. DOCS 8 100% CONSTR. DOCS 9 CLIENT COMMENT 03.08.24 04.09.24 06.05.24 10 BID SET 06.20.24

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**Mulberry Street Cemetery** 

GENERAL NOTES & INFORMATION

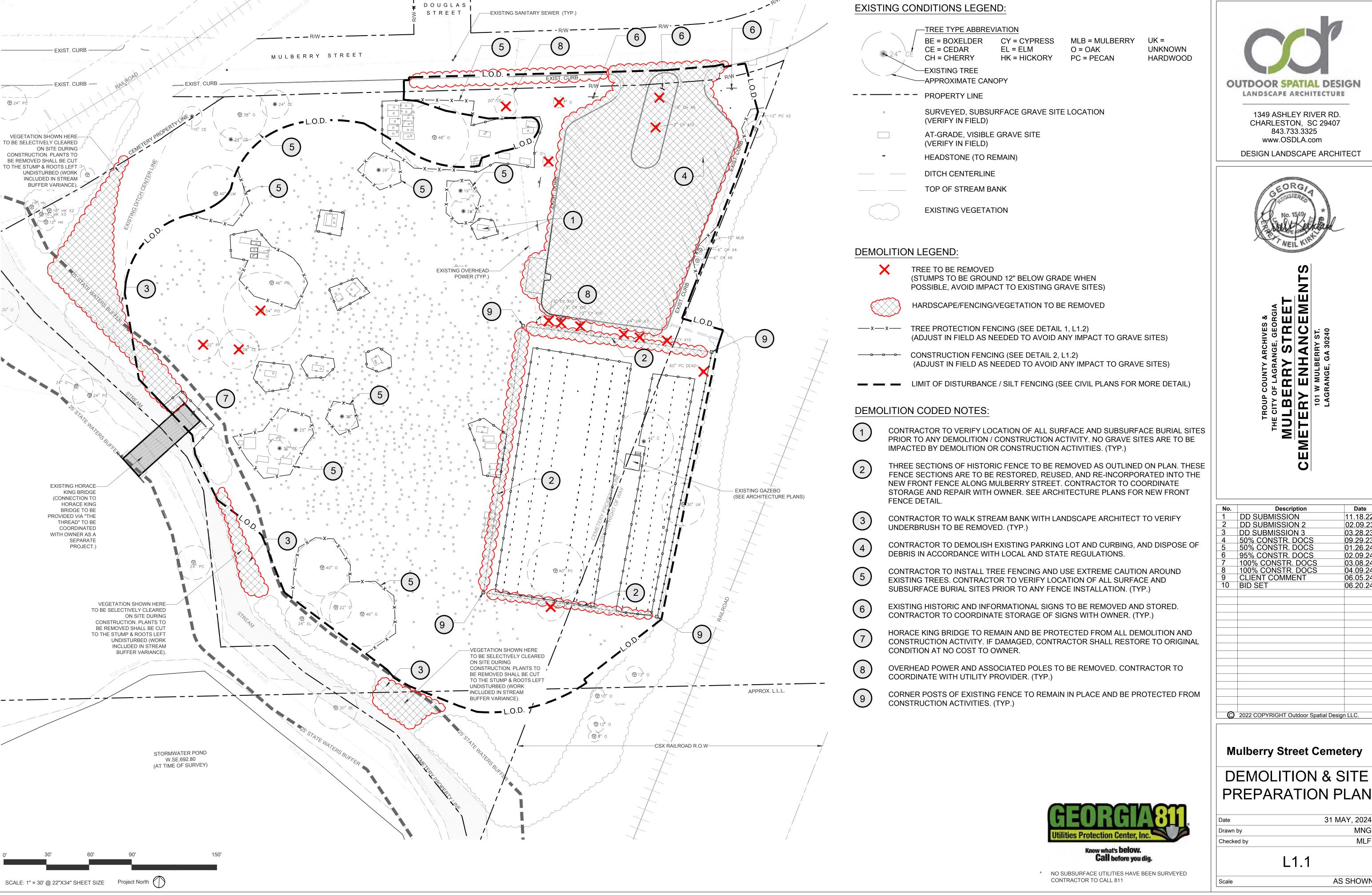
Date 31 MAY, 2024

Drawn by MNG

Checked by MLF

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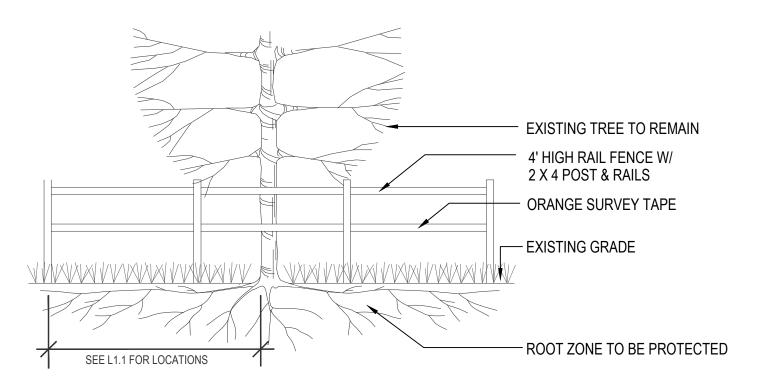
Scale AS SHOWN



No.	Description	Date
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2	DD SUBMISSION 2	02.09.23
3	DD SUBMISSION 3	03.28.23
4	50% CONSTR. DOCS	09.29.23
5	50% CONSTR. DOCS	01.26.24
6	95% CONSTR. DOCS	02.09.24
7	100% CONSTR. DOCS	03.08.24
8	100% CONSTR. DOCS	04.09.24
9	CLIENT COMMENT	06.05.24
10	BID SET	06.20.24

PREPARATION PLAN

31 MAY, 2024 MNG

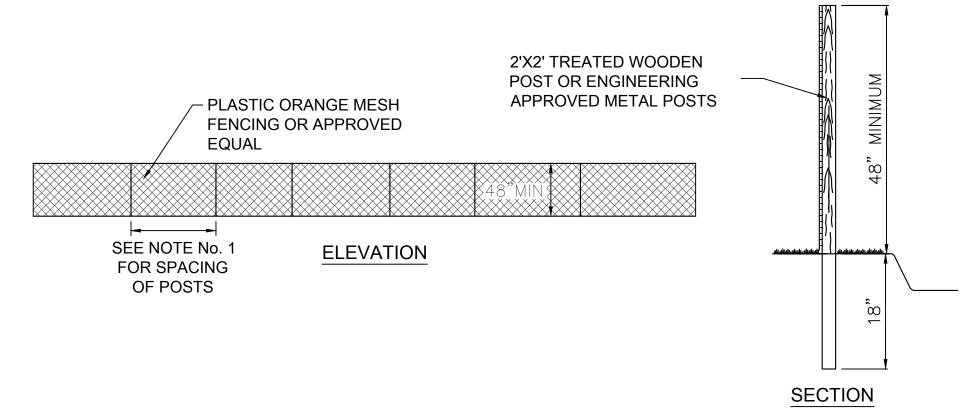


## NOTES:

- 1. TREE PROTECTION FENCING SHALL NOT IMPACT EXISTING GRAVE SITES.
- 2. PROTECTIVE TREE BARRICADE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1' FOR EACH ADDITIONAL 1" DBH GREATER THAN 10" DBH. IDEALLY FENCE TO BE LOCATED AT THE OUTER PERIMETER OF THE TREE CANOPY. IF NOT POSSIBLE, SEE LOCATIONS ON SHEET L1.1.
- 3. ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND ONLY.
- 4. ALL TREE PROTECTION DEVICES ARE TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. NO PARKING, STORAGE, OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN THE TREE PROTECTION AREA
- 5. PROVIDE 3" DEEP WOOD CHIP MULCH OVER ANY UNPROTECTED ROOT ZONE.
- 6. MAKE CLEAN CUTS ON ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY.
- 7. ALL PRUNING OF PROTECTED TREES AND GRAND TREES SHALL BE DONE BY OR UNDER DIRECT SUPERVISION OF AN ISA CERTIFIED ARBORIST.



TREE PROTECTION FENCING



## NOTES:

- 1. SPACE POSTS 6' ON CENTERS MAXIMUM
- 2. FENCES TO BE PLACED AS SPECIFIED ON DEMOLITION AND SITE PREPARATION PLAN.
- 3. ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND ONLY.



**CONSTRUCTION FENCING** 

## CLEARING AND DEMOLITION:

- 1. CONTRACTOR TO COORDINATE DEMOLITION SCHEDULE WITH THE CLIENT.
- 2. CONTRACTOR TO COORDINATE CONSTRUCTION LAY DOWN AREA AND CONSTRUCTION ACCESS WITH OWNER PRIOR TO DEMOLITION.
- 3. CONTRACTOR TO COORDINATE PARK OPERATION SCHEDULE WITH OWNER DURING DEMOLITION AND CONSTRUCTION.
- 4. CONTRACTOR TO WALK SITE WITH LANDSCAPE ARCHITECT AND OWNER PRIOR TO DEMOLITION ACTIVITIES.
- 5. CONTRACTOR SHALL NOT DISTURB ANY GRAVE SITES DURING DEMOLITION OR CONSTRUCTION.
- 6. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE CAUSED TO EXISTING SITE ELEMENT(S) THAT WERE NOT NOTED TO BE DEMOLISHED. ALL REPAIRS SHALL RESTORE EACH DAMAGED ELEMENT TO ITS ORIGINAL CONDITION PRIOR TO CONSTRUCTION AND WILL BE AT NO COST TO THE OWNER.
- 7. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
- 8. THE TOP 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE AS REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOIL TESTING COMPANY. EXCESS MATERIAL IS TO BE STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER.
- 9. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR PERFORMING DEMOLITION.
- 10. ALL CONSTRUCTION DEBRIS NOT SUITABLE FOR CONSTRUCTION AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS OR AS DIRECTED BY THE OWNER OR THE LANDSCAPE ARCHITECT.
- 11. ALL CONCRETE TO BE REMOVED SHALL BE CLEAN CUT AND STRAIGHT TO LIMITS INDICATED. ANY DAMAGE TO ADJACENT BUILDINGS, FOOTINGS, AND WALKS NOT TO BE DEMOLISHED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 12. NO SUBSURFACE UTILITIES HAVE BEEN SURVEYED. CONTRACTOR TO CALL GEORGIA 811 TO VERIFY LOCATION OF ALL SUBSURFACE UTILITIES PRIOR TO DEMOLITION AND CONSTRUCTION.



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DESIGN LANDSCAPE ARCHITECT



TROUP COUNTY ARCHIVES &
THE CITY OF LAGRANGE, GEORGIA
MULBERRY STREET
ETERY ENHANCEMENTS
101 W MULBERRY ST.

Description 11.18.22 DD SUBMISSION 2 DD SUBMISSION 2 02.09.23 3 DD SUBMISSION 3 03.28.23 4 50% CONSTR. DOCS 5 50% CONSTR. DOCS 09.29.23 01.26.24 6 95% CONSTR. DOCS 02.09.24 7 100% CONSTR. DOCS 8 100% CONSTR. DOCS 9 CLIENT COMMENT 03.08.24 04.09.24 06.05.24 10 BID SET 06.20.24

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Mulberry Street Cemetery

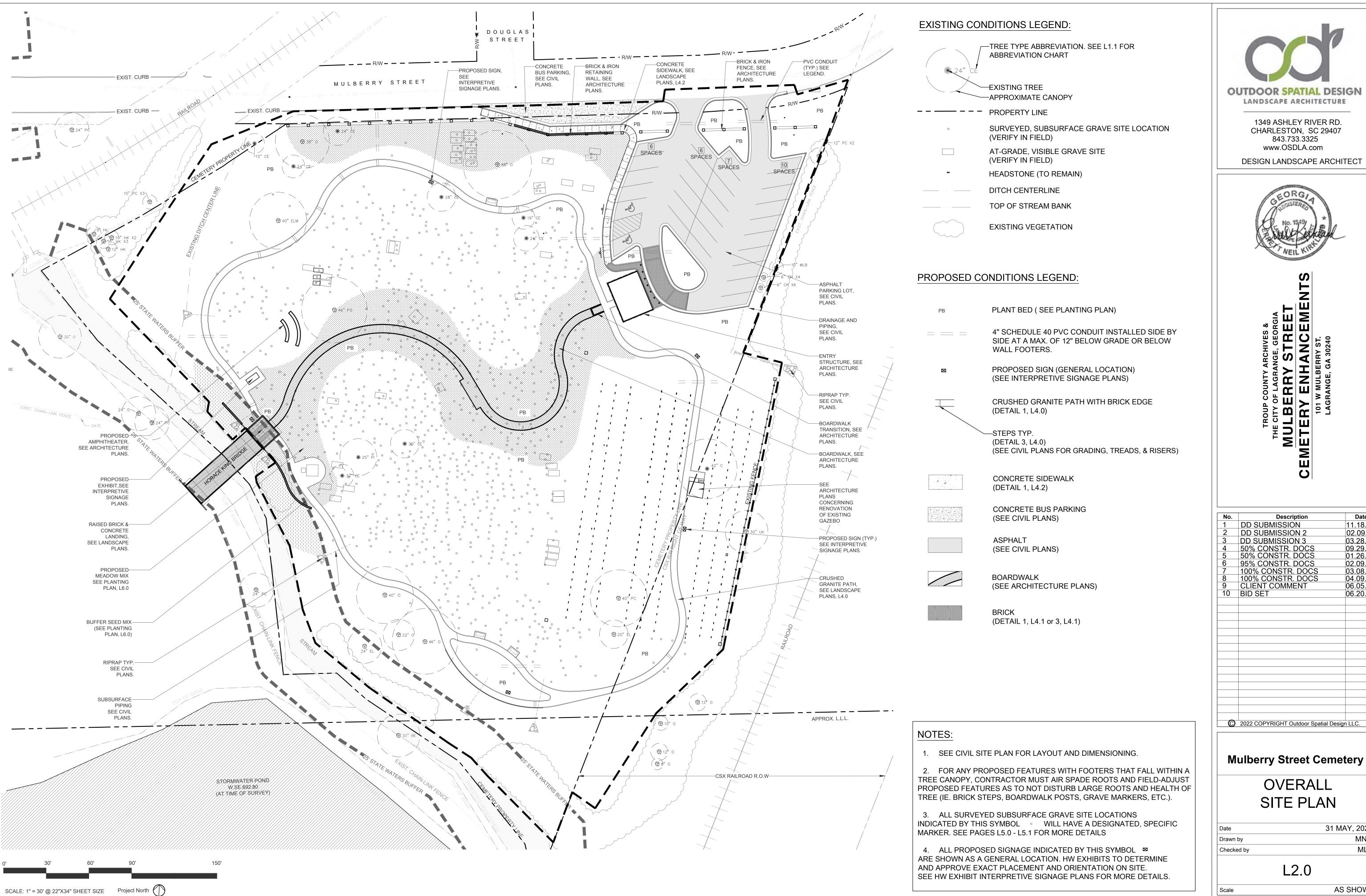
DEMOLITION NOTES & DETAILS

Date 31 MAY, 2024
Drawn by MNG

Checked by

L1.2

Scale AS SHOWN



LANDSCAPE ARCHITECTURE

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DESIGN LANDSCAPE ARCHITECT

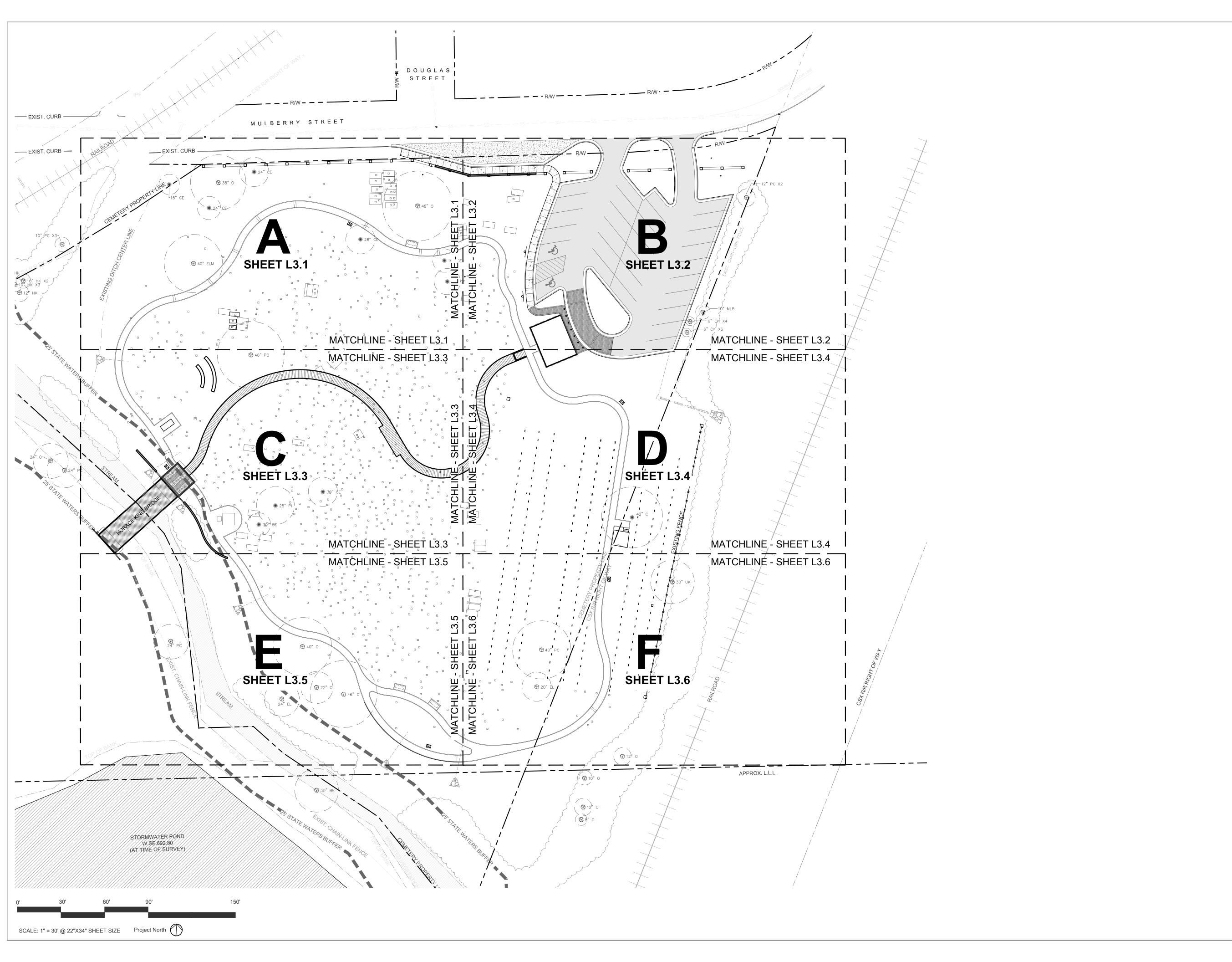


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CLIENT COMMENT	06.05.24
BID SET	06.20.24
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	DD SUBMISSION 2 DD SUBMISSION 3 50% CONSTR. DOCS 50% CONSTR. DOCS 95% CONSTR. DOCS 100% CONSTR. DOCS 100% CONSTR. DOCS CLIENT COMMENT

**OVERALL** SITE PLAN

31 MAY, 2024 MNG

L2.0





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DESIGN LANDSCAPE ARCHITECT



TROUP COUNTY ARCHIVES &

THE CITY OF LAGRANGE, GEORGIA

MULBERRY STREET

101 W MULBERRY ST.

LAGRANGE, GA 30240

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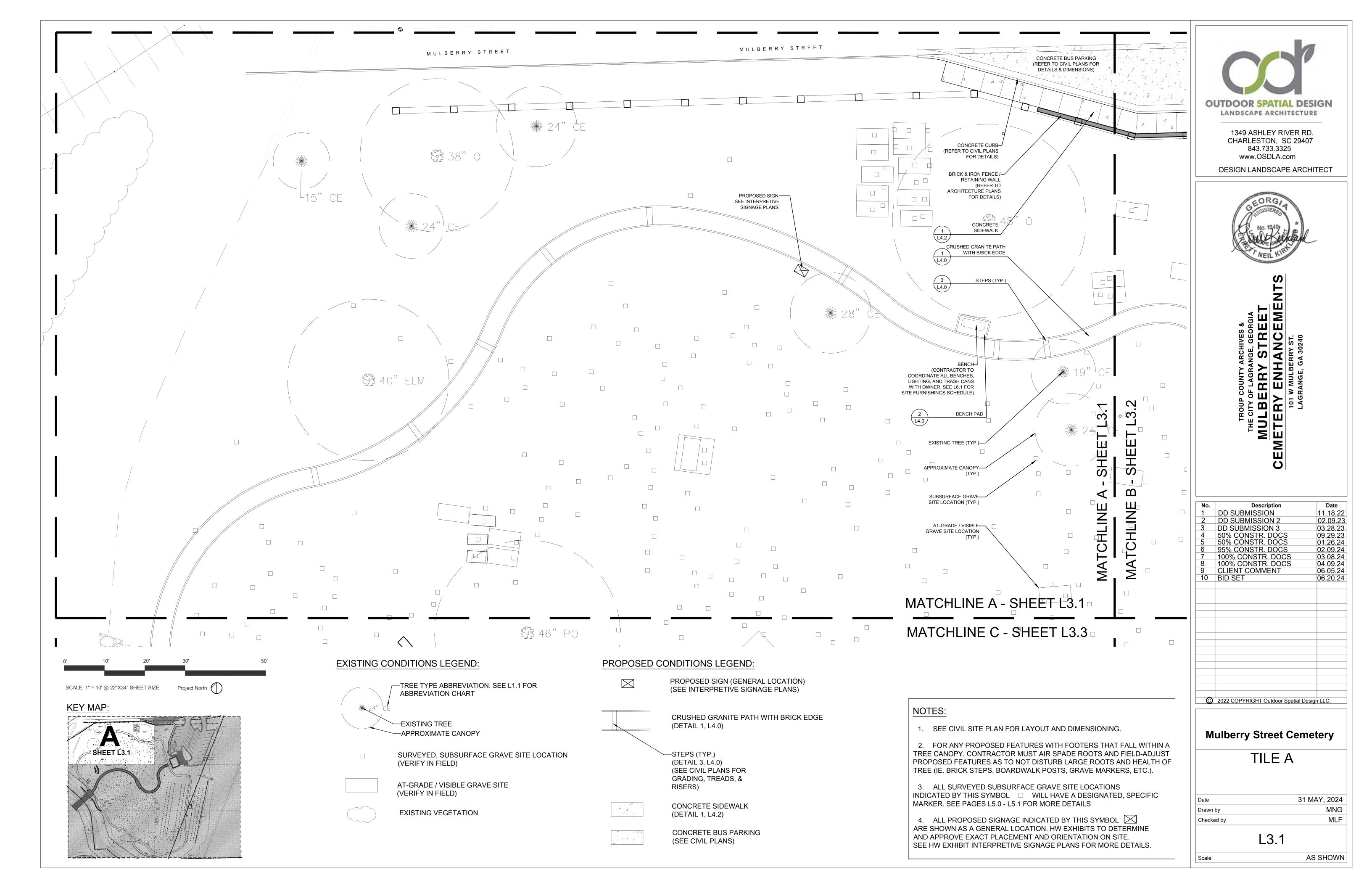
## Mulberry Street Cemetery

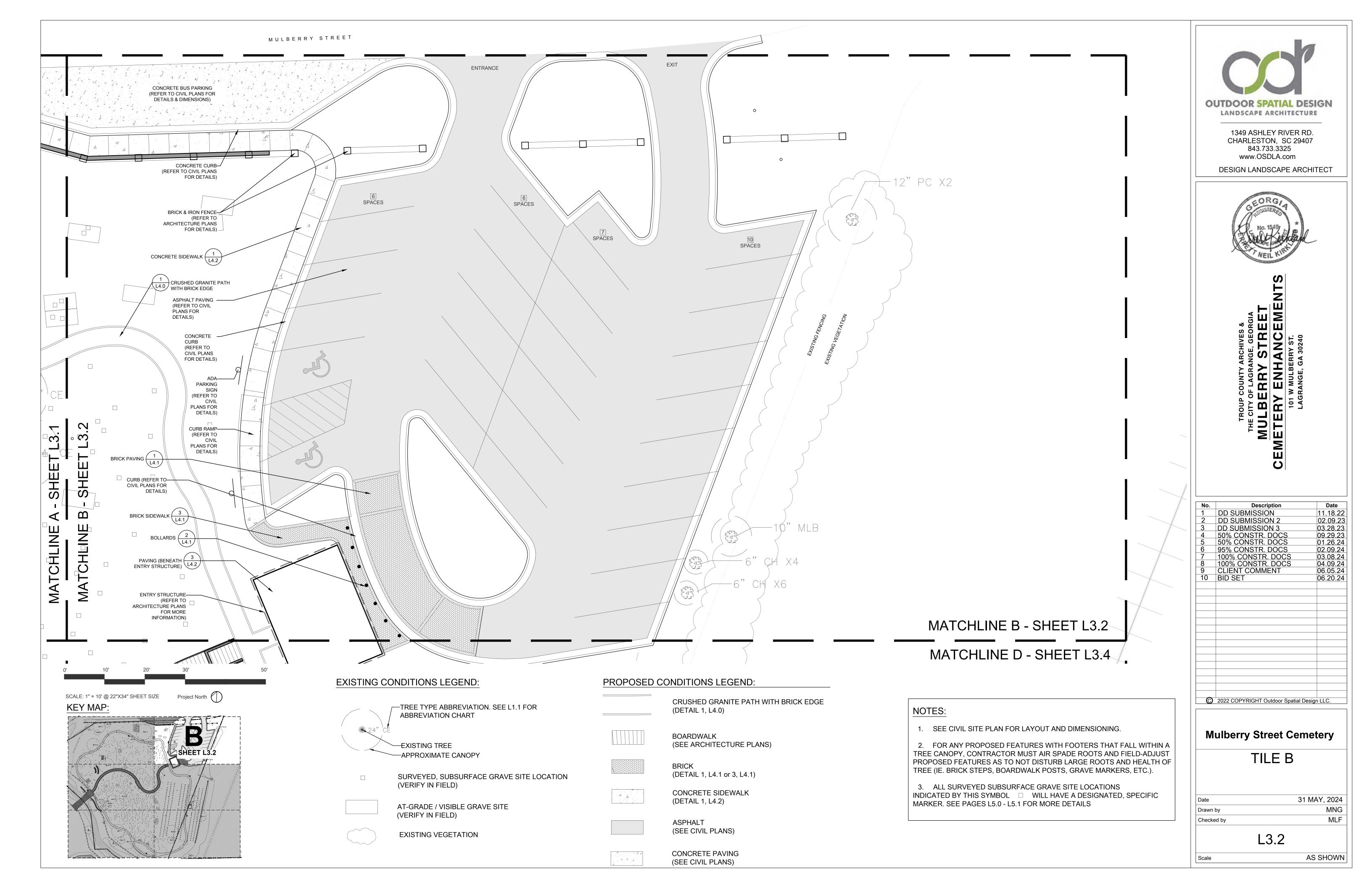
TILE PLAN

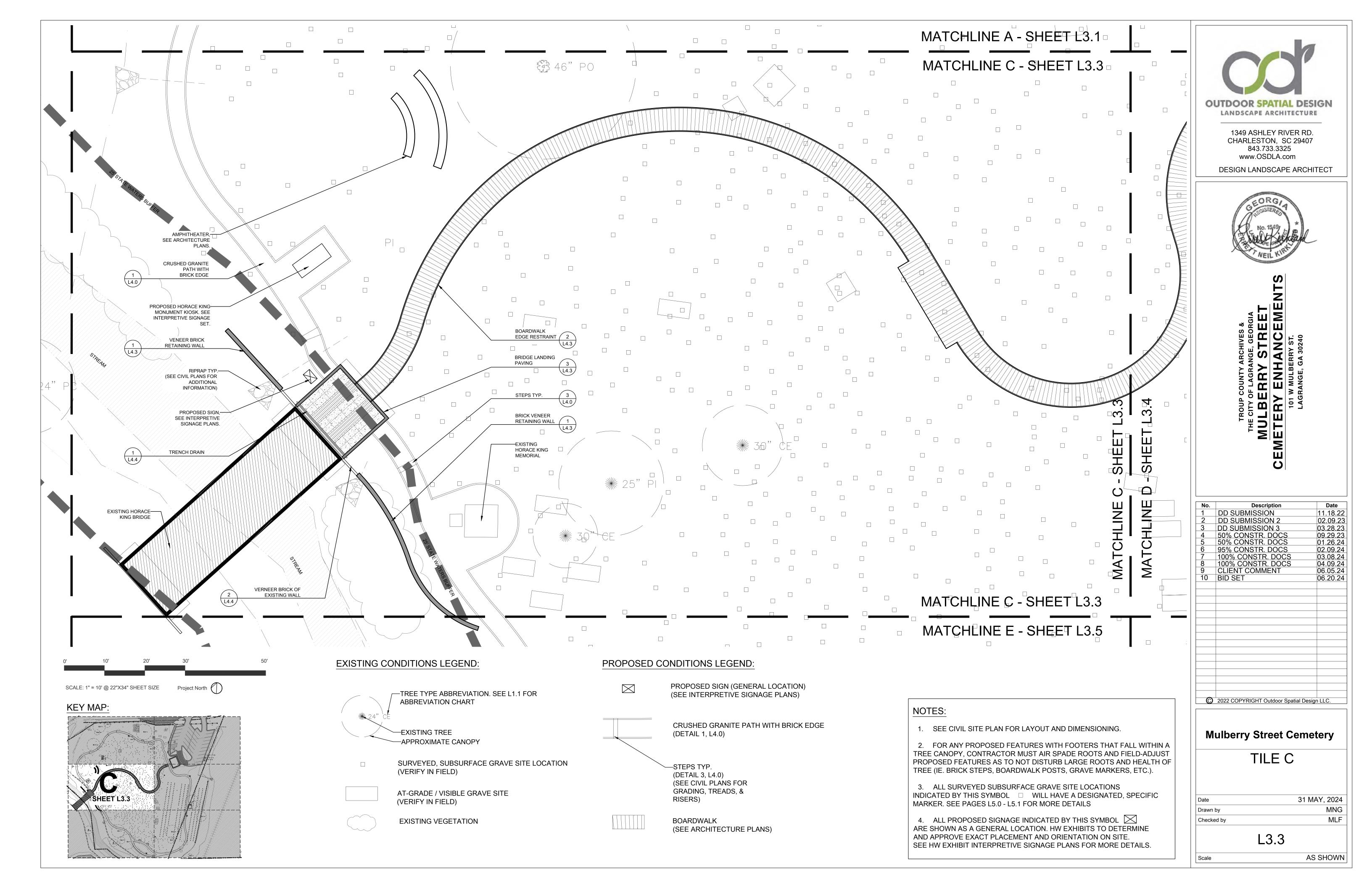
Date	31 MAY, 2024
Drawn by	MNG
Checked by	MLF

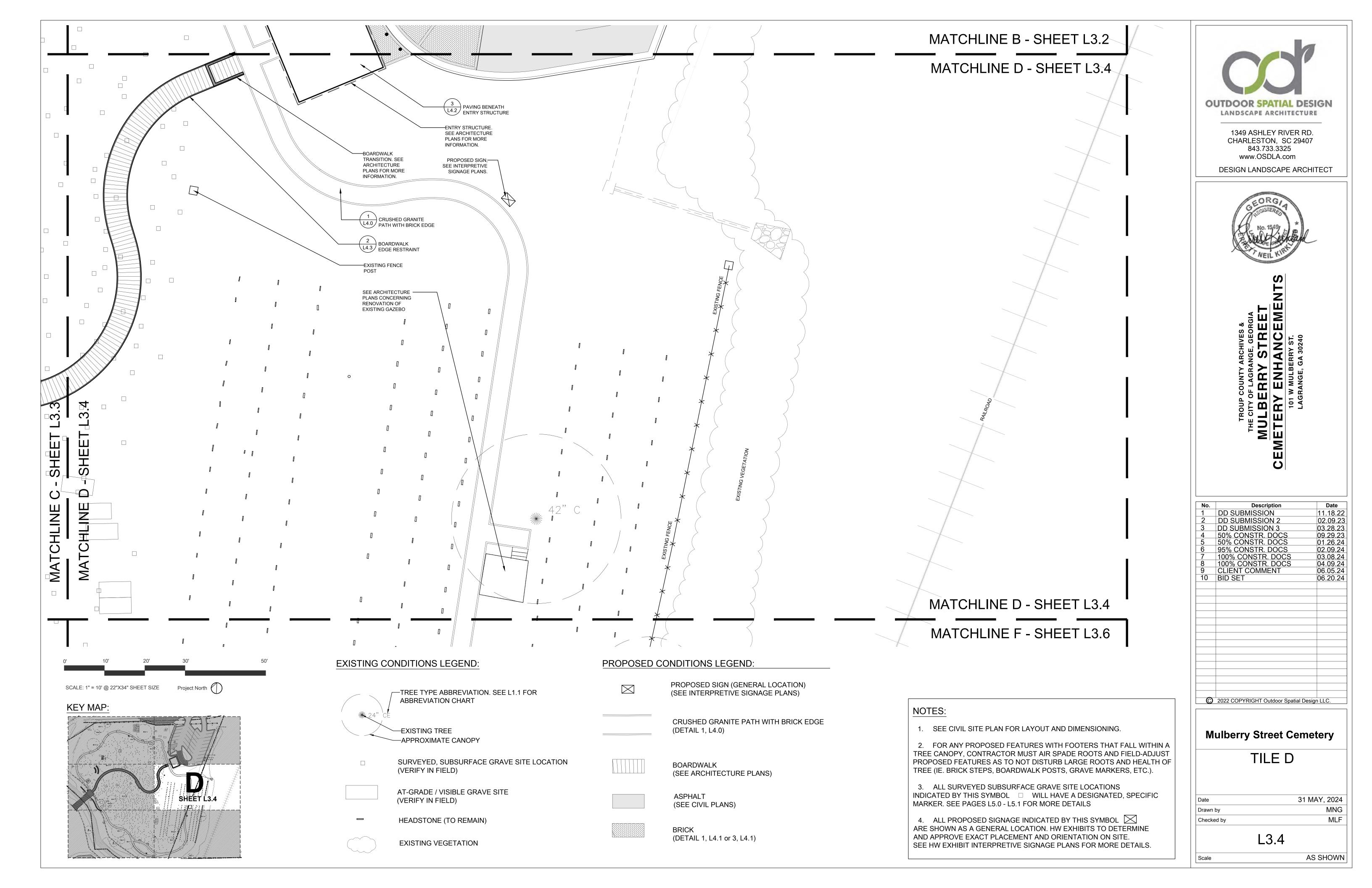
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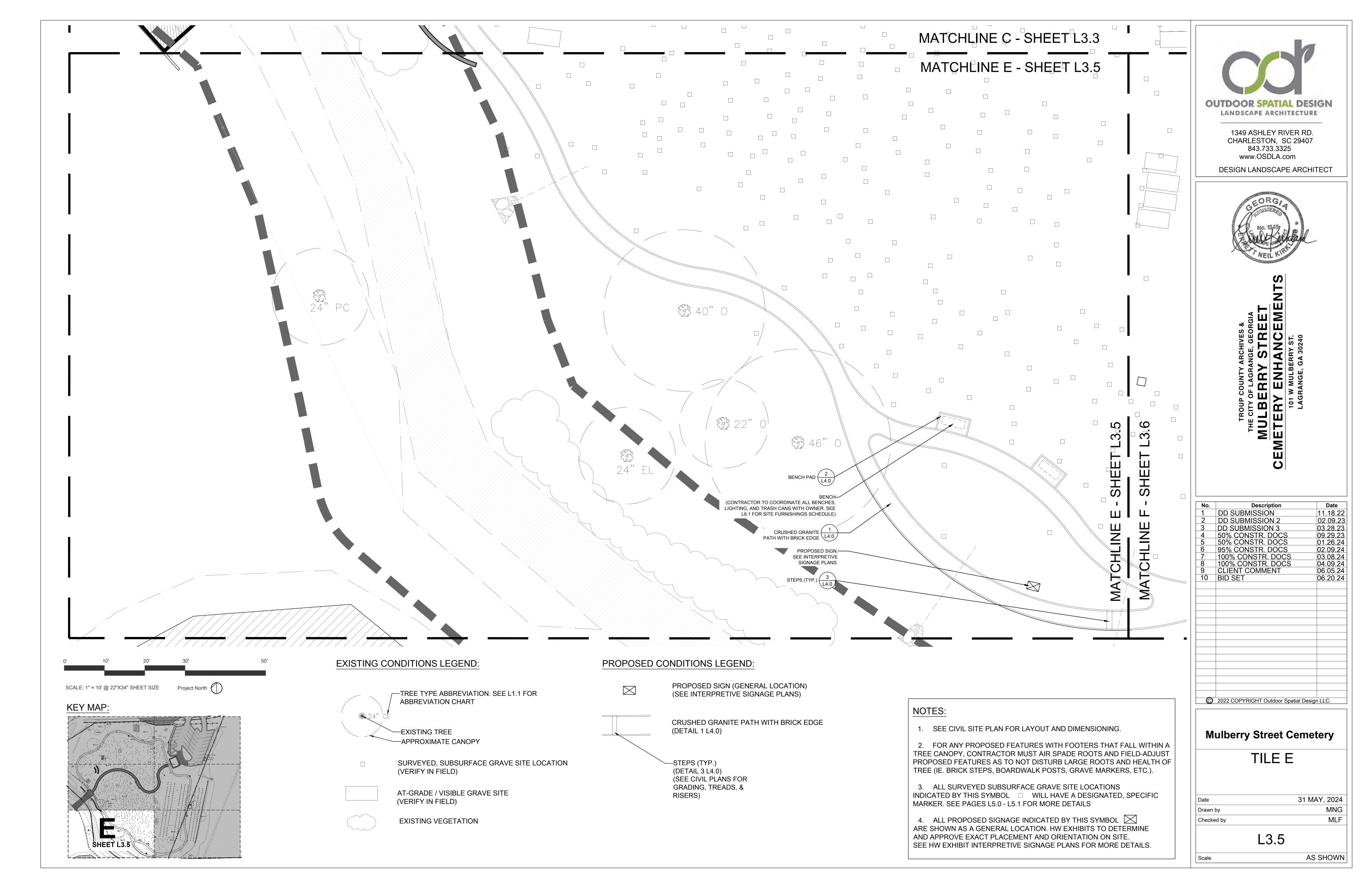
L3.0

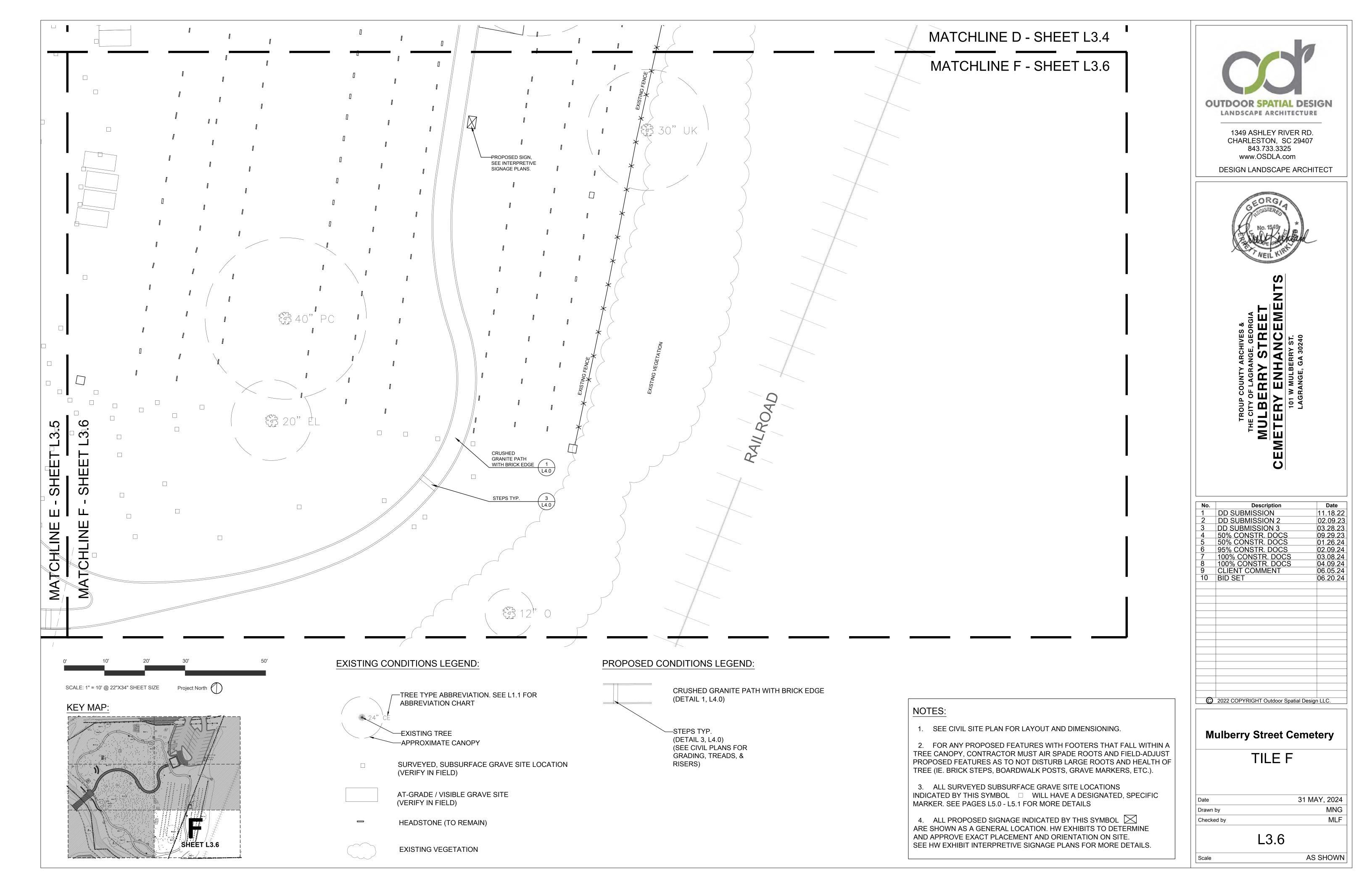


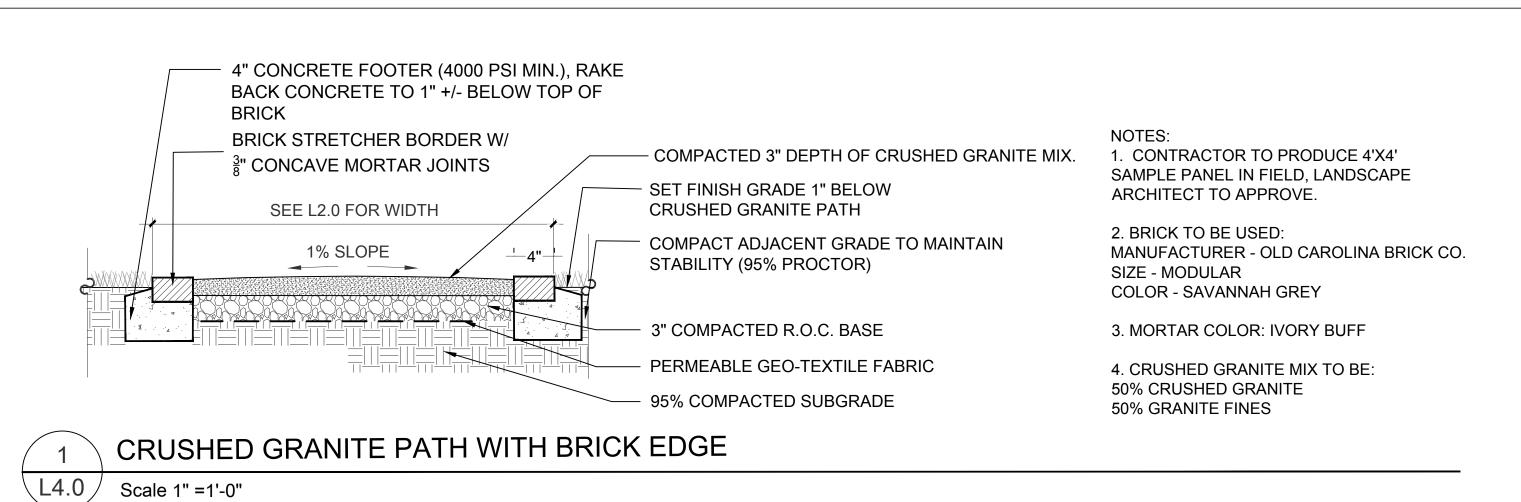












4" CONCRETE FOOTER (4000 PSI MIN.). RAKE BACK CONCRETE TO 1" +/- BELOW TOP OF BRICK BRICK STRETCHER BORDER W/ COMPACTED 3" DEPTH OF CRUSHED GRANITE MIX. 3" CONCAVE MORTAR JOINTS - SET FINISH GRADE 1" BELOW CRUSHED GRANITE PATH SEE L2.0 FOR WIDTH COMPACT ADJACENT GRADE TO MAINTAIN 1% SLOPE STABILITY (95% PROCTOR) 3" COMPACTED R.O.C. BASE PERMEABLE GEO-TEXTILE FABRIC

STRETCHER COURSE BRICK CRUSHED GRANITE MIX -TO MATCH PATH, SEE NOTE 4, DETAIL 1, L4.0 BENCH (APPROX. 2' X 6') CRUSHED GRANITE (SEE NOTE 1.) PATH WITH BRICK EDGE (SEE DETAIL 1, 4.0) PLAN VIEW SCALE: 1"=4'-0"

1. ALL BENCH PADS TO BE PERPENDICULAR TO ADJACENT PATH

2. CONTRACTOR TO COORDINATE SELECTION OF ALL BENCHES, LIGHTING, AND TRASH CANS WITH OWNER. SEE L6.1 FOR SITE FURNISHINGS SCHEDULE)

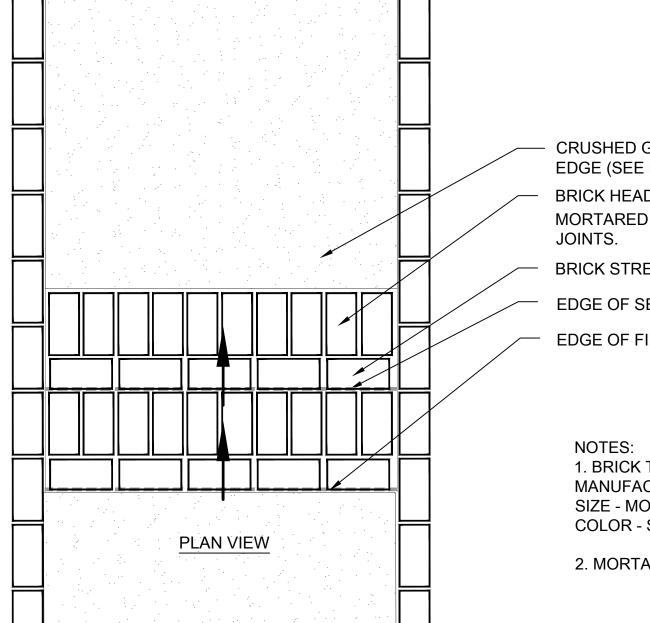
3. BRICK TO BE USED: MANUFACTURER - OLD CAROLINA BRICK CO. SIZE - MODULAR COLOR - SAVANNAH GREY

4. MORTAR COLOR: IVORY BUFF

5. CRUSHED GRANITE MIX TO BE: 50% CRUSHED GRANITE 50% GRANITE FINES

3/8" CONCAVE MORTAR JOINT ─ BRICK STRETCHER COURSE -**BRICK HEADER COURSE** CRUSHED GRANITE PATH WITH BRICK EDGE (SEE DETAIL 1, L4.0) AGGREGATE BACKFILL -CRUSHED GRANITE PATH WITH BRICK EDGE (SEE DETAIL 1, L4.0) FINISH GRADE FINISH GRADE, 1" OVERHANG, ALL TREADS SLOPED TO DRAIN MORTAR BED #4 REBAR, CONTINUOUS #4 REBAR, CONTINUOUS. TIED INTO FOOTING SECTION VIEW CONCRETE FOOTING (4000 PSI MIN.) **COMPACTED SUBGRADE (95%)** 

95% COMPACTED SUBGRADE



MANUFACTURER - OLD CAROLINA BRICK CO.

SITE DETAILS

31 MAY, 2024 MNG Drawn by Checked by

Scale

L4.0

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**Mulberry Street Cemetery** 

OUTDOOR SPATIAL DESIGN

LANDSCAPE ARCHITECTURE

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DESIGN LANDSCAPE ARCHITECT

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DD SUBMISSION DD SUBMISSION 2

3 DD SUBMISSION 3

10 BID SET

4 50% CONSTR. DOCS 5 50% CONSTR. DOCS

95% CONSTR. DOCS 100% CONSTR. DOCS 100% CONSTR. DOCS CLIENT COMMENT

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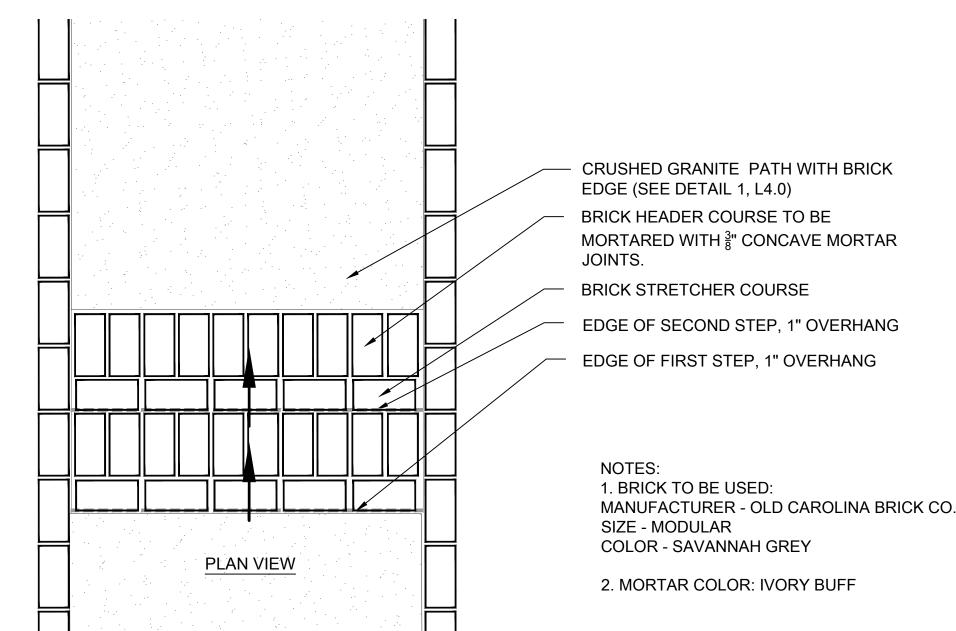
09.29.23 01.26.24

02.09.24

03.08.24 04.09.24 06.05.24

06.20.24

**AS SHOWN** 



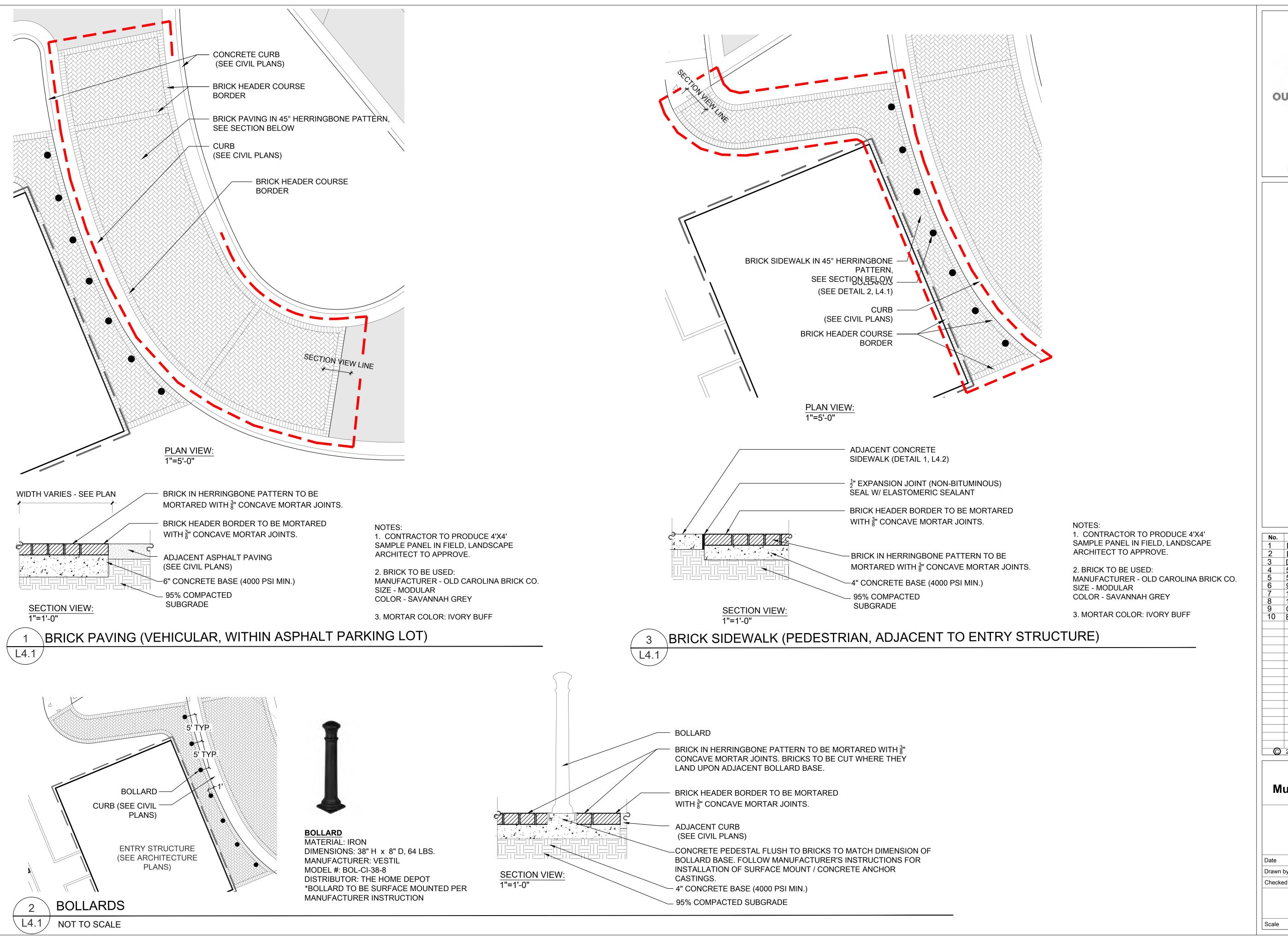
STEPS TYP. (WITHIN CRUSHED GRANITE PATH)

L4.0 / Scale 1" =1'-0"

**BENCH PAD** 

Scale 1" =1'-0"

\L4.0 /





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DESIGN LANDSCAPE ARCHITECT



THE CITY OF LAGRANGE, GEORGIA

MULBERRY STREET

METERY ENHANCEMENTS

101 W MULBERRY ST.

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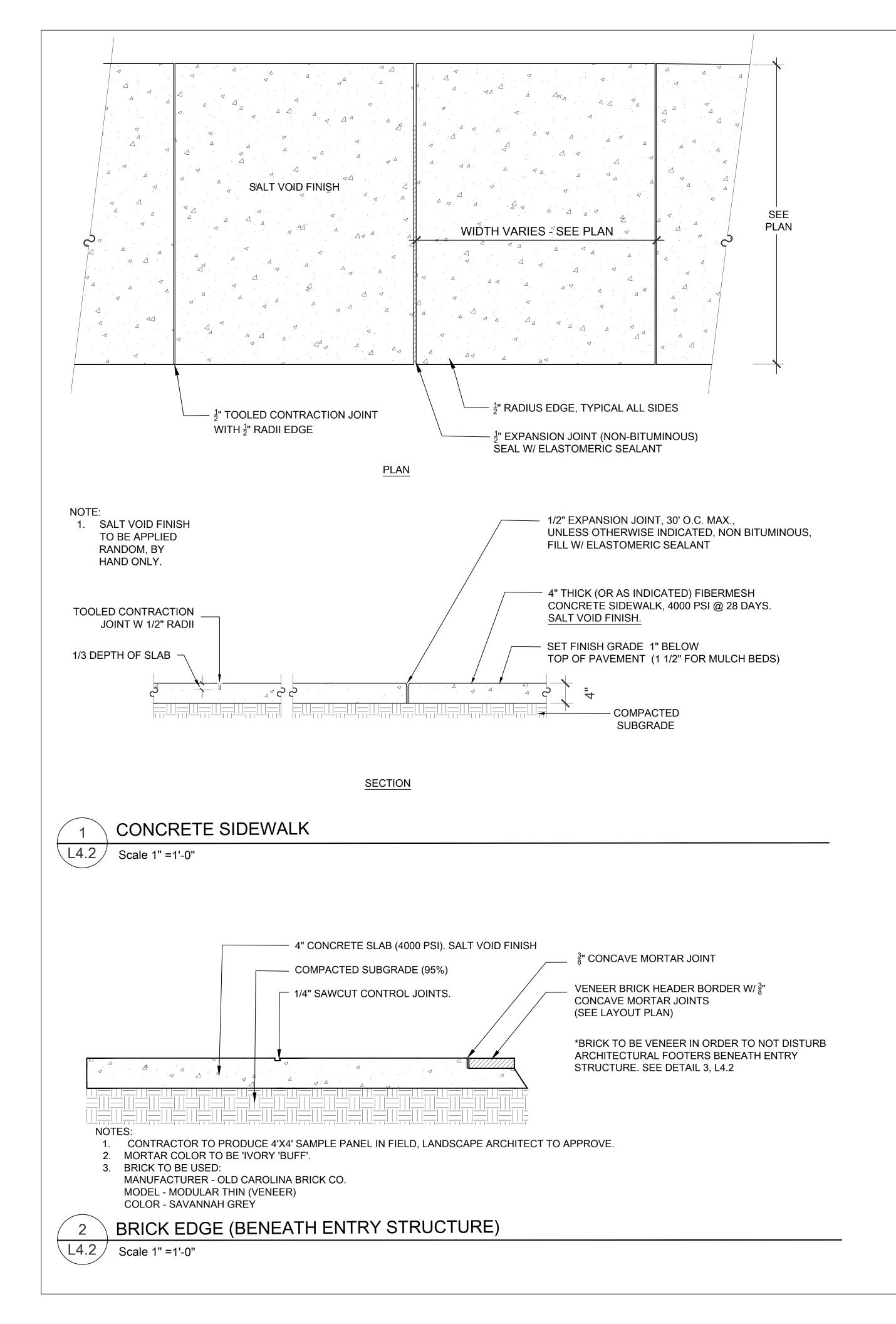
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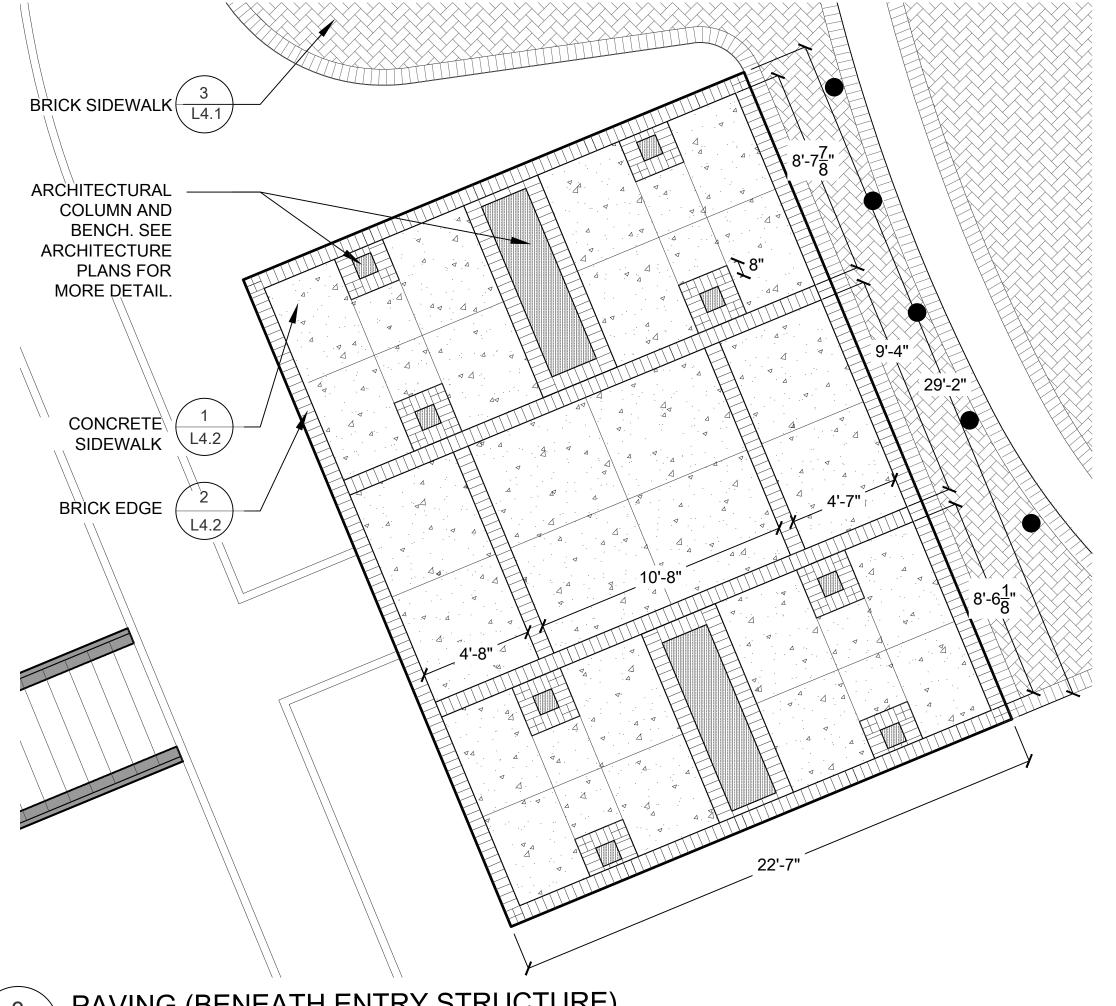
**Mulberry Street Cemetery** 

SITE DETAILS

Date	31 MAY, 2024
Drawn by	MNG
Checked by	MLF
1	

L4.1





PAVING (BENEATH ENTRY STRUCTURE)

Scale 1" =4'-0"

OUTDOOR SPATIAL DESIGN LANDSCAPE ARCHITECTURE

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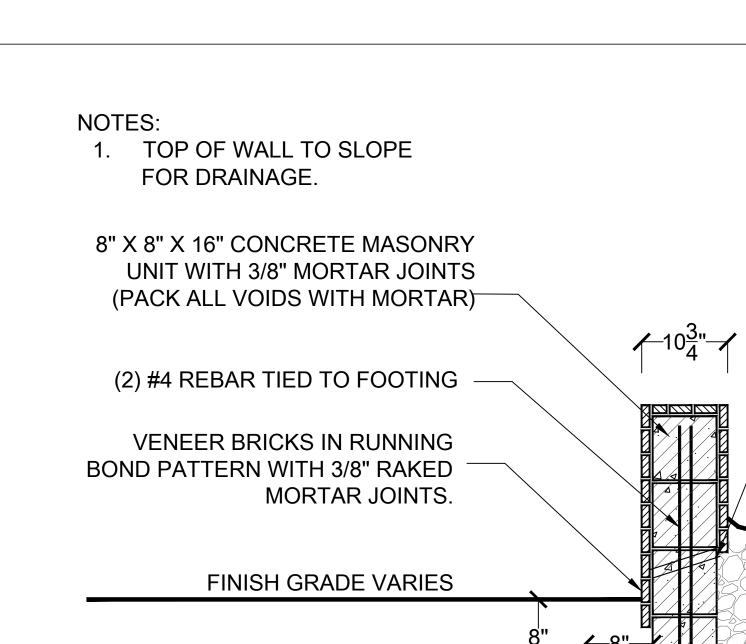
**Mulberry Street Cemetery** 

SITE DETAILS

31 MAY, 2024 MNG Drawn by Checked by

Scale

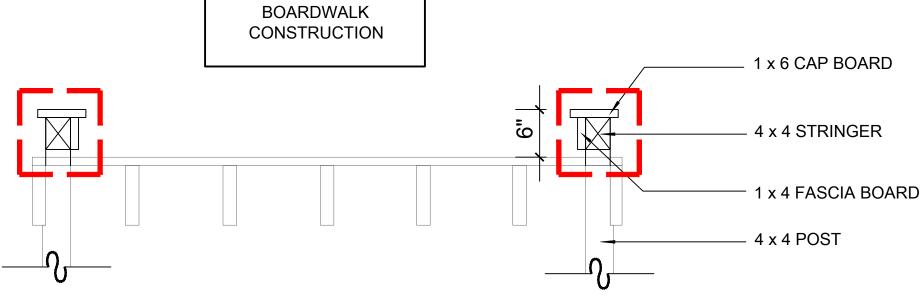
L4.2



2" PIPE FOR WEEP HOLES EVERY 6' O.C.

12" GRAVEL BACKFILL

FINISH GRADE VARIES SEE CIVIL PLANS FOR GRADING.





**BOARDWALK EDGE RESTRAINT** 

SEE ARCHITECTURE

PLANS FOR OVERALL

Scale 1" =1'-0"

# VENEER BRICK RETAINING WALL (AT STREAM)

(2) #4 REBAR, TIED TO FOOTING

**COMPACTED SUBGRADE (95%)** 

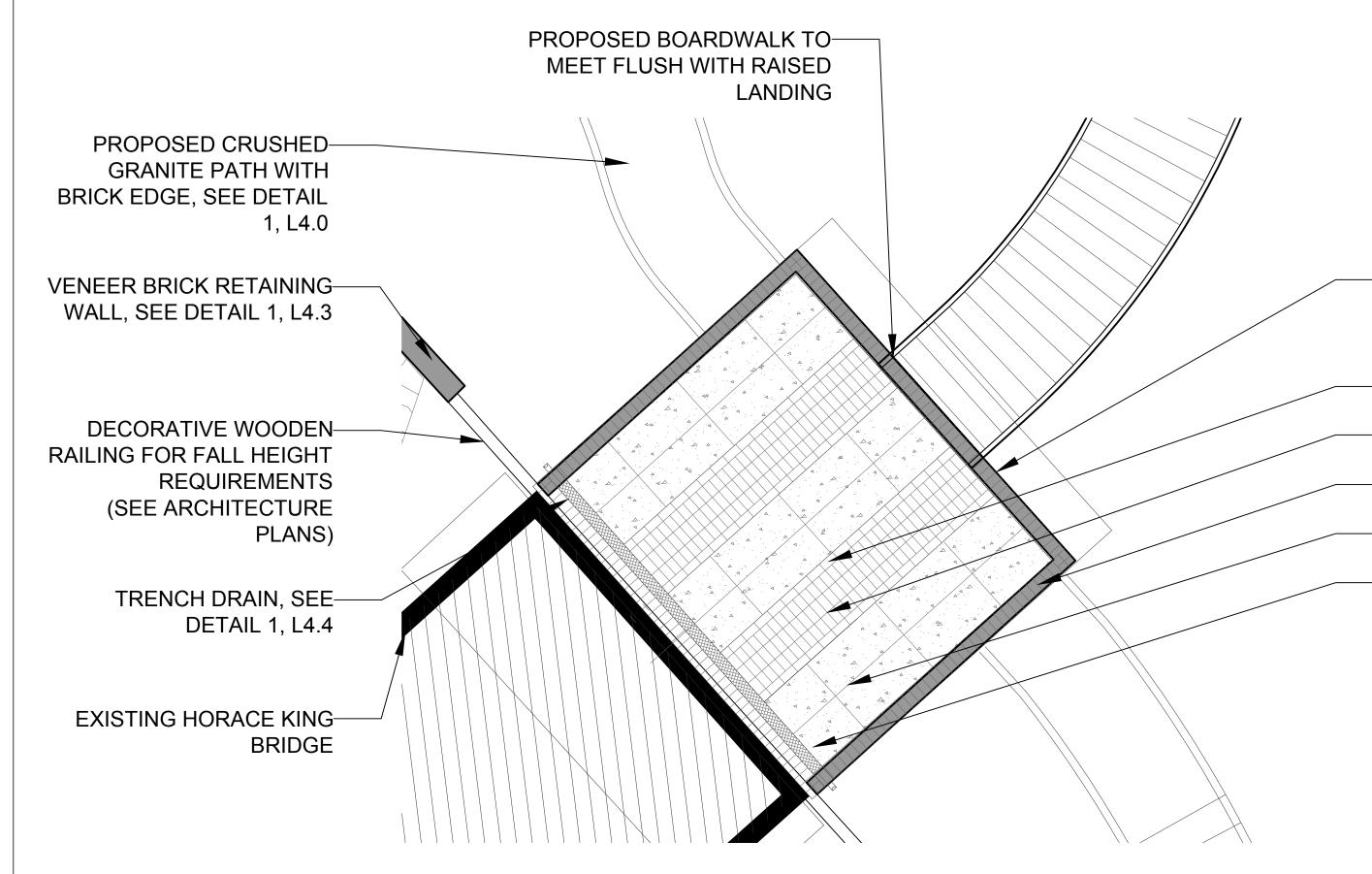
CONCRETE FOOTING (4000 PSI MIN.)

(2) #4 REBAR CONTINUOUS

L4.3 Scale 1" =1'-0"

# NOTES:

- 1. CONTRACTOR SHALL STAKE OUT LOCATION OF WALL / FENCE AND LANDSCAPE ARCHITECT SHALL APPROVE LOCATION PRIOR TO INSTALLATION.
- 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO OWNER/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL OF MATERIAL, LAYOUT, DESIGN, COLOR SELECTION, ETC. PRIOR TO INSTALLATION.
- 3. MANUFACTURER TO PROVIDE WARRANTY INFORMATION IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. MANUFACTURER AGREES TO REPAIR FINISH OR REPLACE FENCE, WALL AND GATE PANELS THAT SHOW EVIDENCE OF DETERIORATION OF APPLIED FINISHED WITHIN 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.



-RAISED STRUCTURAL WALLS, SEE ARCHITECTURE PLANS. SURROUNDING FACADES TO BE VENEER BRICK IN RUNNING **BOND PATTERN** 

-STRETCHER COURSE BRICK BORDER

-STACK BOND COURSE BRICK TO ALIGN WITH EXISTING WOODEN BRIDGE TRACKS

HEADER COURSE BRICK BORDER

 $^{-1}/2$  " TOOLED CONTRACTION JOINT WITH  $\frac{1}{2}$ " RADII EDGE

-4" CONCRETE SLAB (4000 PSI MIN.), SALT VOID FINISH. SALT VOID FINISH TO BE APPLIED RANDOM, BY HAND ONLY.

NOTES: 1. BRICK TO BE USED:

MANUFACTURER - OLD CAROLINA BRICK CO. SIZE - MODULAR THIN (VENEER) **COLOR - SAVANNAH GREY** 

2. ALL BRICK TO HAVE  $\frac{3}{8}$ " CONCAVE MORTAR

BRIDGE LANDING PAVING

L4.3 / Scale 1" =4'-0"

JOINTS IN COLOR 'IVORY BUFF'



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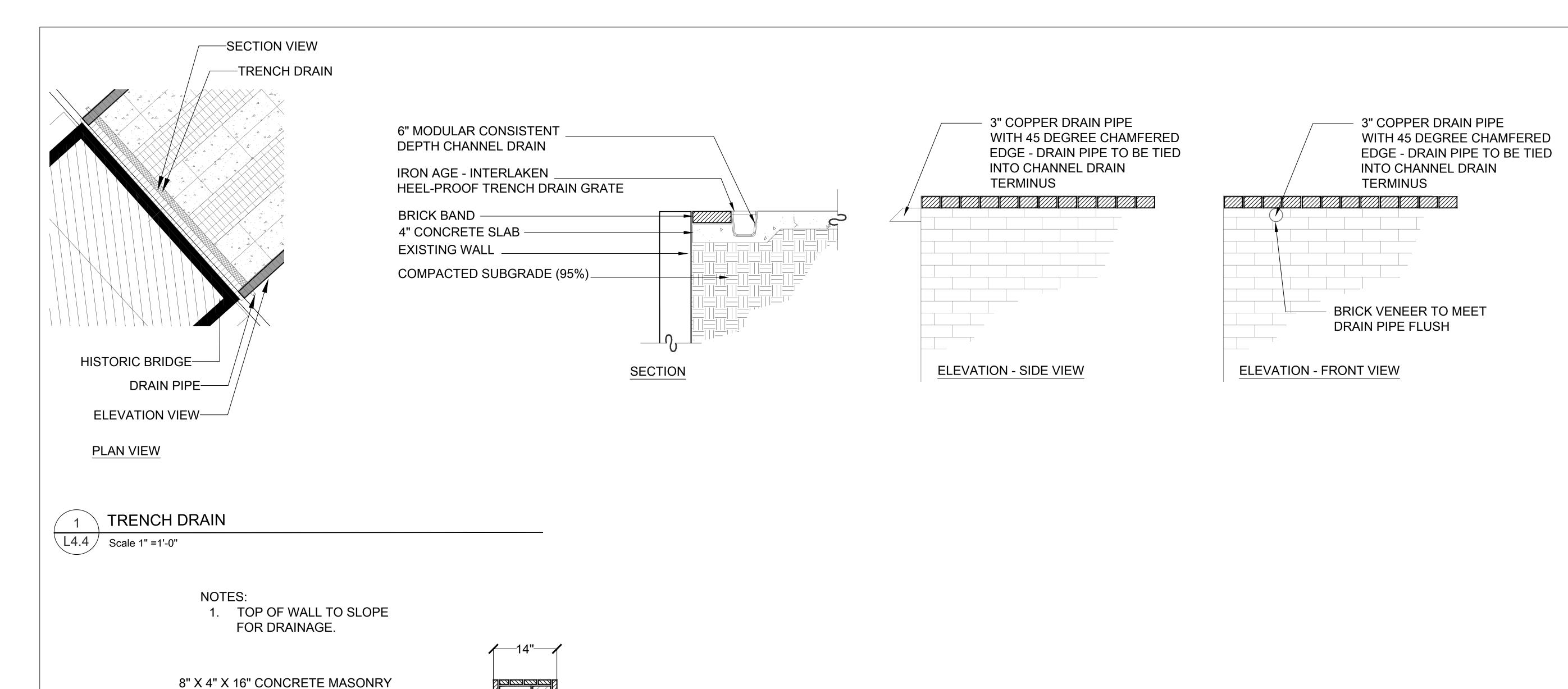
**Mulberry Street Cemetery** 

SITE DETAILS

31 MAY, 2024 Drawn by Checked by

L4.3

Scale



FINISH GRADE VARIES

SEE CIVIL PLANS

FOR GRADING.

UNIT WITH 3/8" MORTAR JOINTS

WITH NEW WALL EXTENSION.

**EXISTING WALL** 

(2) #4 REBAR, TIED TO FOOTING -

CONCRETE FOOTING (4000 PSI MIN.)

VENEER BRICK OF EXISTING WALL (AT STREAM)

(2) #4 REBAR CONTINUOUS

**EXISTING FOOTING TO REMAIN-**

COMPACTED SUBGRADE (95%)-

FINISH GRADE VARIES

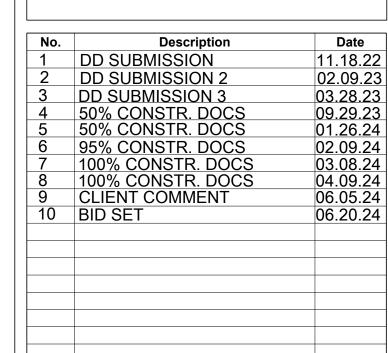
SECTION

(PACK ALL VOIDS WITH MORTAR)

VENEER BRICKS IN RUNNING BOND PATTERN WITH

L4.4 Scale 1" =1'-0"

3/8" RAKED MORTAR JOINTS. PATTERN TO ALIGN



LANDSCAPE ARCHITECTURE

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DESIGN LANDSCAPE ARCHITECT

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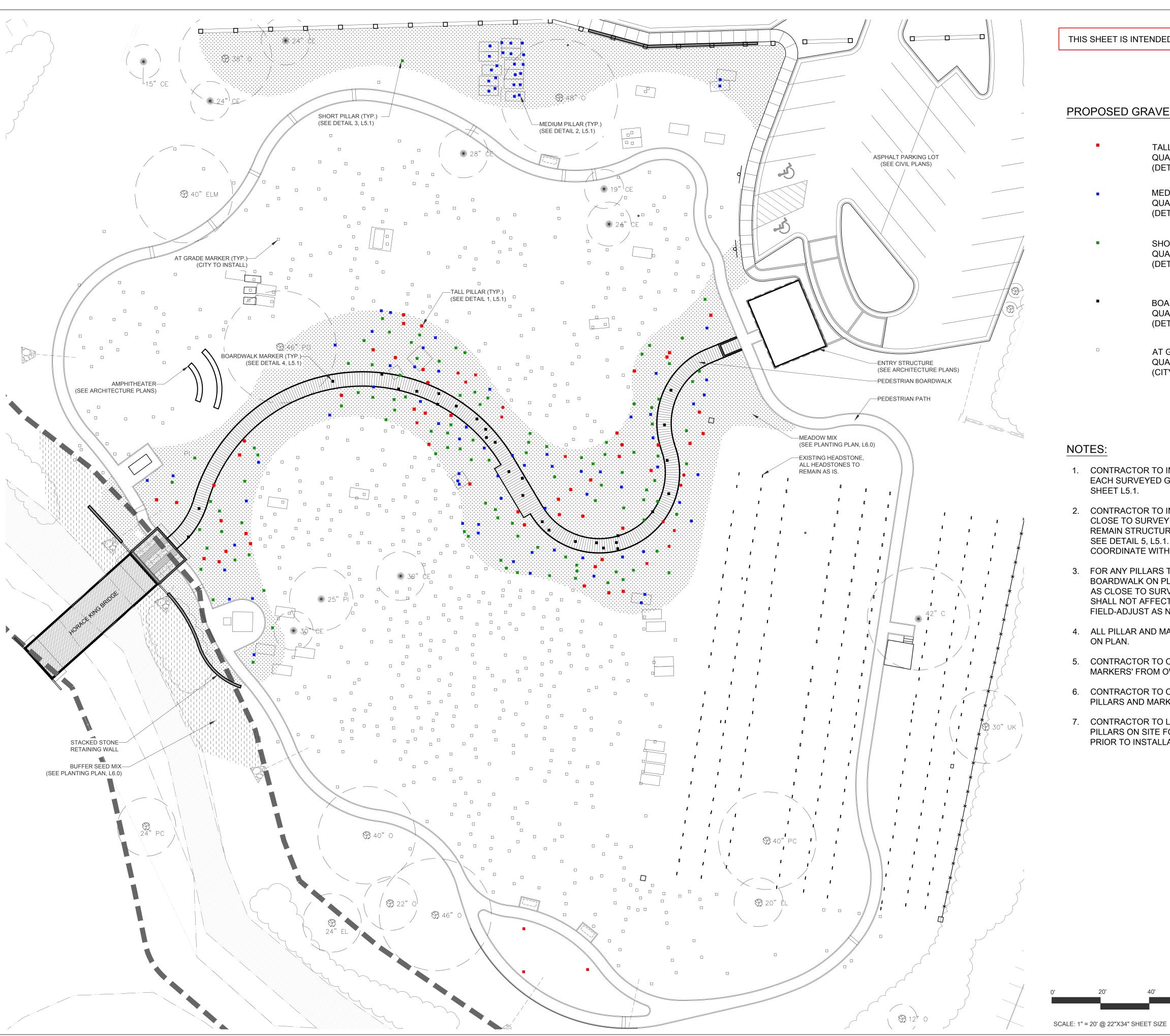
Mulberry Street Cemetery

SITE DETAILS

Date 31 MAY, 2024
Drawn by MNG
Checked by MLF

L4.4

Scale



## THIS SHEET IS INTENDED TO BE PRINTED IN COLOR

## PROPOSED GRAVE MARKER LEGEND:

- TALL PILLAR **QUANTITY: 65** (DETAIL 1, L5.1)
- MEDIUM PILLAR QUANTITY: 89 (DETAIL 2, L5.1)
- SHORT PILLAR QUANTITY: 106 (DETAIL 3, L5.1)
- **BOARDWALK MARKER** QUANTITY: 29 (DETAIL 4, L5.1)
- AT GRADE MARKER QUANTITY: 729 (CITY TO INSTALL)

## NOTES:

- 1. CONTRACTOR TO INSTALL DESIGNATED MARKER TYPE AT EACH SURVEYED GRAVE SITE. SEE ABOVE LEGEND AND SHEET L5.1.
- CONTRACTOR TO INSTALL BOARDWALK MARKERS AS CLOSE TO SURVEYED LOCATION AS POSSIBLE, BUT REMAIN STRUCTURALLY SOUND BETWEEN STRINGERS, SEE DETAIL 5, L5.1. FIELD-ADJUST AS NEEDED, COORDINATE WITH LA.
- FOR ANY PILLARS THAT APPEAR TO OVERLAP THE BOARDWALK ON PLAN, CONTRACTOR TO INSTALL PILLARS AS CLOSE TO SURVEYED LOCATION AS POSSIBLE, BUT SHALL NOT AFFECT / NOTCH-INTO BOARDWALK. FIELD-ADJUST AS NEEDED, COORDINATE WITH LA.
- 4. ALL PILLAR AND MARKER ORIENTATIONS TO BE AS SHOWN ON PLAN.
- 5. CONTRACTOR TO OBTAIN GRANITE 'BOARDWALK MARKERS' FROM OWNER.
- 6. CONTRACTOR TO COORDINATE ON-SITE STORAGE OF PILLARS AND MARKERS WITH OWNER.
- CONTRACTOR TO LAY OUT LOCATION OF MARKERS AND PILLARS ON SITE FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.

Project North



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DESIGN LANDSCAPE ARCHITECT



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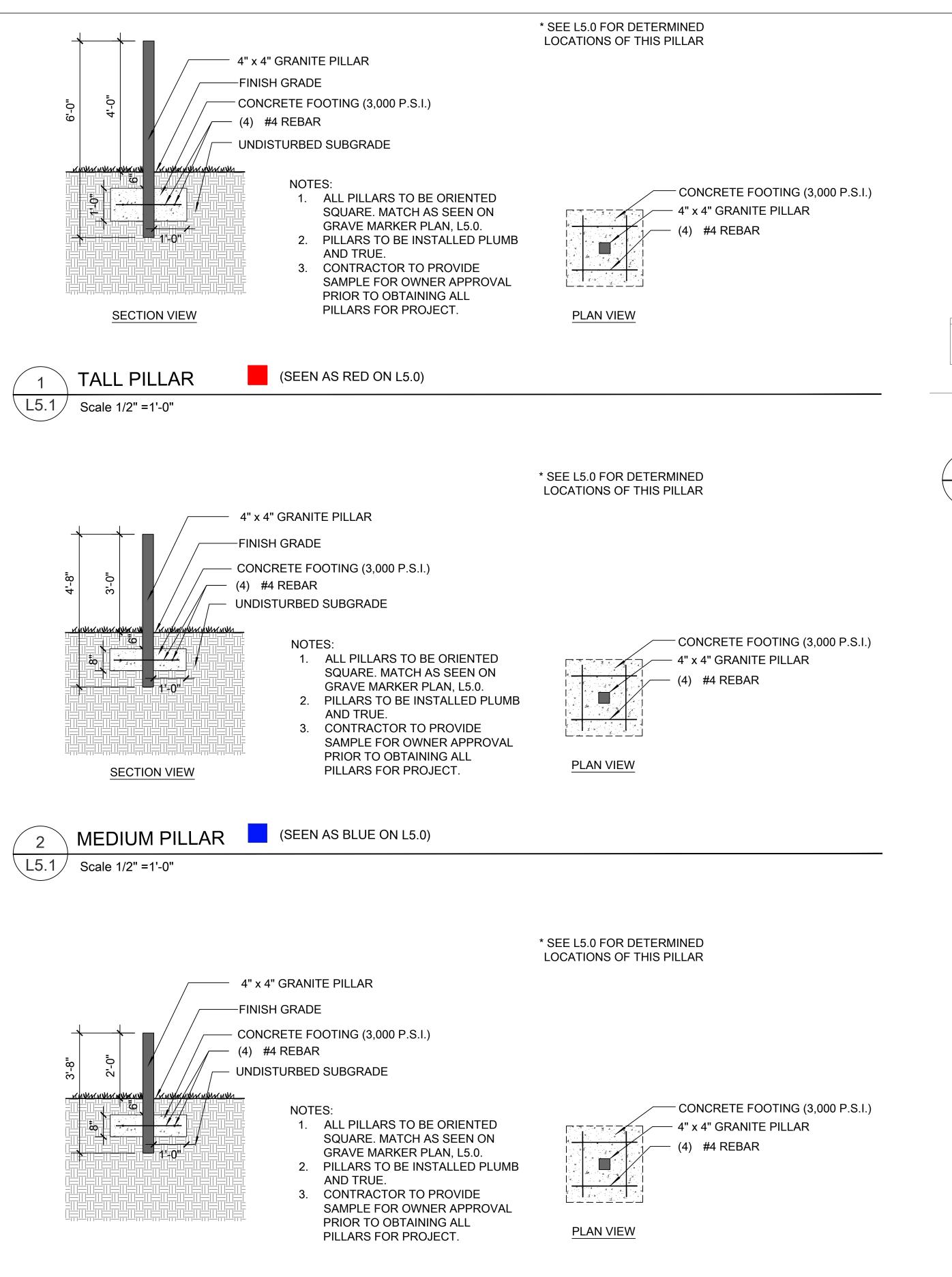
**Mulberry Street Cemetery** 

**GRAVE MARKER** PLAN

31 MAY, 2024 Drawn by Checked by

L5.0

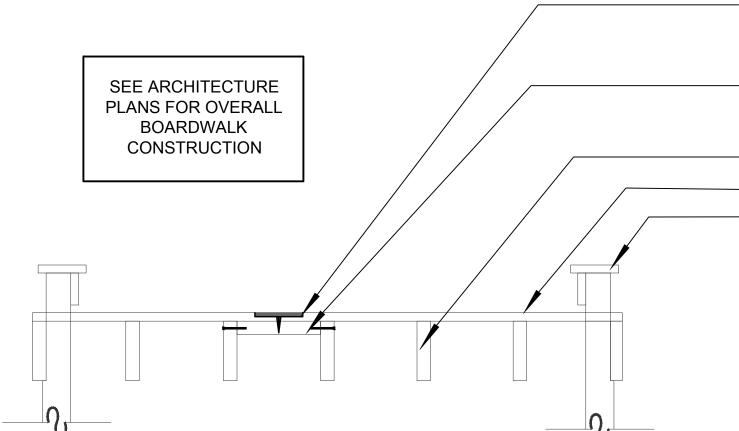
Scale



(SEEN AS GREEN ON L5.0)

SHORT PILLAR

Scale 1/2" =1'-0"



6" DIAMETER TACK MAKER -(1" COUNTER SUNK TO BE FLUSH WITH DECKING)

MARKERS TO BE CUSTOM PROVIDED BY IRON AGE DESIGNS BASIS OF DESIGN: RAISED PAVEMENT MARKER

MATERIAL: CAST ALUMINUM

DESIGN: CUSTOM - MULBERRY STREET CEMETARY LOGO TO MATCH IN GROUND MARKERS

CONTACT: JON LUTTON ,jonl@ironagegrates.com, 206.926.4592

2X8 WOOD BLOCKING BENEATH MARKER, FASTENED PERPENDICULAR TO STRINGER AND FLAT TO BOTTOM OF DECKING WITH (3) 3" COATED DECK SCREWS

STRINGERS

**DECKING** 

BOARDWALK EDGE RESTRAINT, SEE DETAIL 2, L4.3

## NOTES:

- 1. ALL BOARDWALK GRANITE MARKERS TO BE
- FLUSH TO BOARDWALK.
- 2. GRANITE MARKERS TO BE SET AS CLOSE TO SURVEYED LOCATION AS POSSIBLE, BUT REMAIN STRUCTURALLY SOUND BETWEEN STRINGERS.
- 3. CONTRACTOR TO OBTAIN GRANITE MARKERS FROM OWNER.

BOARDWALK MARKER Scale 1" =1'-0"

(SEEN AS BLACK ON L5.0)

# OUTDOOR SPATIAL DESIGN LANDSCAPE ARCHITECTURE

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DESIGN LANDSCAPE ARCHITECT



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**Mulberry Street Cemetery** 

**GRAVE MARKER DETAILS** 

31 MAY, 2024 MNG Drawn by MLF Checked by

L5.1

Scale

**AS SHOWN** 

## NOTES:

- 1. CONTRACTOR TO VERIFY QUANTITY OF EACH PILLAR TYPE BEFORE ORDERING.
- 2. CONTRACTOR TO COORDINATE WITH OWNER CONCERNING QUANTITY OF EXTRA MARKERS / PILLARS FOR STORAGE AND FUTURE, POTENTIAL REPLACEMENT.
- 3. CONTRACTOR TO COORDINATE WITH OWNER FOR ANY APPLICABLE SPECIAL CONDITIONS WHEN WORKING NEAR GRAVE SITES.

THIS SHEET IS INTENDED TO BE PRINTED IN COLOR



## **IRRIGATION NOTES:**

- 1. ALL PLANT MATERIAL SHALL BE IRRIGATED.
- 2. IRRIGATION SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- 3. CONTRACTOR TO COORDINATE WITH THE OWNER FOR LOCATION AND POWER SOURCE FOR IRRIGATION CLOCK, AND WATER SOURCE. CONTRACTOR TO TIE IN AND MODIFY ANY EXISTING IRRIGATION AS NEEDED.
- 4. ALL PLANT BEDS SHALL RECEIVE IN-LINE DRIP IRRIGATION SPACED NO GREATER THAN 24" APART, AND ALL SODDED AREAS SHALL RECEIVE OVERHEAD SPRAY IRRIGATION.
- 5. SPRAY IRRIGATION SHALL NOT BE CAST ONTO ANY HARDSCAPE AND/OR VERTICAL ELEMENTS.
- 6. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR TEMPORARY IRRIGATION SYSTEM SERVICES, PERMITS AND FEES AS NEEDED.

SEE SHEET L6.1 FOR PLANT SCHEDULE.



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DESIGN LANDSCAPE ARCHITECT



TROUP COUNTY ARCHIVES &
THE CITY OF LAGRANGE, GEORGIA

MULBERRY STREET

EMETERY ENHANCEMENTS

101 W MULBERRY ST.

LAGRANGE, GA 30240

No.	Description	Date
1	DD SUBMISSION	11.18.22
2	DD SUBMISSION 2	02.09.23
3	DD SUBMISSION 3	03.28.23
4	50% CONSTR. DOCS	09.29.23
5	50% CONSTR. DOCS	01.26.24
6	95% CONSTR. DOCS	02.09.24
7	100% CONSTR. DOCS	03.08.24
8	100% CONSTR. DOCS	04.09.24
9	CLIENT COMMENT	06.05.24
10	BID SET	06.20.24

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Mulberry Street Cemetery

PLANTING PLAN

	Date	31 MAY, 2024
	Drawn by	MNG
	Checked by	MLF
- 1		

L6.0

Scale AS SHOWN

## SITE FURNISHINGS SCHEDULE:

Ilex vomitoria 'Nana'

Rhododendron 'Conleb'

llex x attenuata 'Fosteri'

'Radtko' PP 16,202 CPBR 3,104

Camellia sasangua 'Mine-No-Yuki

Quantity	Item	Remarks
3	Benches	Owner to select. Contractor to coordinate with owner for city standards.
7	Bollards	See Detail 2, L4.1
1	Trash Can	Owner to select. Contractor to coordinate with owner for city standards.
TBD	Parking Lot / Landscape Lighting	Owner to select. Contractor to coordinate with owner for city standards and ensure conduit available for lighting as needed.

## PLANT SCHEDULE:

91	Distylium myricoides 'Blue Cascade'	Distylium	3 gal.	Full, well formed	
Quantity	Scientific Name	Common Name	Size	Remarks	
Shrubs					
11	Chionanthus virginicus	Fringe Tree	10' ht. min.	Full, well formed, single stem	
7	Magnolia grandiflora	Magnolia	12' ht. min.	Full, well formed	
6	Taxodium distichum	Bald Cypress	12' ht. min.	Full, well formed	
7	Ulmus parviflora 'Drake'	Drake Elm	12' ht. min.	Full, well formed	
4	Quercus virginiana	Live Oak	4" Cal. min	Full, well formed	
Quantity	Scientific Name	Common Name	Size	Remarks	
rrees					

3 gal.

3 gal.

3 gal.

15 gal.

15 gal.

30 gal.

Full, well formed

Full. well formed

Full. well formed

Full, well formed

Full. well formed

Full, well formed

Dwarf Yaupon

Encore Azalea

Foster's Holly

Camellia

Viburnum

Knock Out Rose

# 11 Viburnum odoratissimum Grasses & Groundcovers

66

77

17

15

19

Quantity	Scientific Name	Common Name	Size	Remarks
100	Miscanthus sinensis	Maiden Grass	3 gal.	Full, well formed
273	Lomandra longifolia 'Breeze'	Breeze Grass	3 gal.	Full, well formed
110	Liriope muscari 'Big Blue'	Big Blue Liriope	1 gal.	Full, well formed
200	Nephrolepis exaltata	Fishbone Fern	1 gal.	Full, well formed.
19,600 SF	Wildflower Butterfly & Hummingbird Mix	Meadow Mix	Seed	Pennington Brand: https://www.pennington.com/all-products/
				fertilizer/pennington-wildflower-butterfly-hummingbird-mix
2,675 SF		Sod		Sod variety to match existing on site

## Buffer Seed Mix (+/-2.470 SF.)

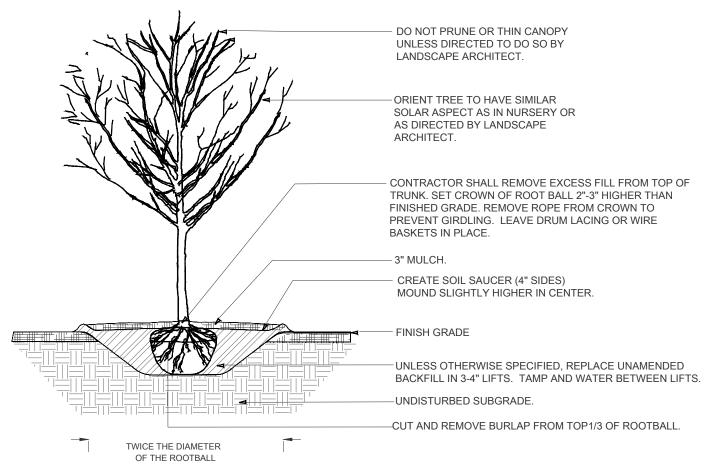
Quantity	Scientific Name	Common Name	Size	Remarks		
+/-741 SF. (30%)	Juncus tenuis	Path Rush	Seed	15 Lbs. Per Acer		
+/-741 SF. (30%)	Chasmanthium sessiliflorum	Longleaf Woodoats	Seed	15 Lbs. Per Acer		
+/-494 SF. (20%)	Glyceria striata	Fowl Manna Grass	Seed	15 Lbs. Per Acer		
+/-247 SF. (10%)	Muhlenbergia schreberi	Nimblewill	Seed	15 Lbs. Per Acer		
+/-247 SF. (10%)	Onoclea sensibilis	Sensitive Fern	Seed	15 Lbs. Per Acer		

NOTE: CONTRACTOR TO VERIFY BUFFER SEED MIX SQUARE FOOTAGE QUANTITIES.

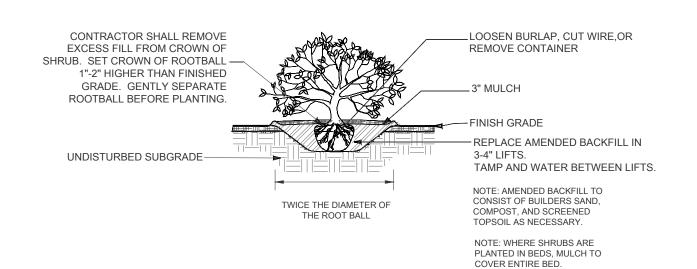
## **PLANTING NOTES:**

- 1. IMMEDIATELY UPON INSTALLATION, TREAT ALL LANDSCAPE BEDS WITH DEER REPELLANT. OWNER TO MAINTAIN REGULARLY UNTIL PLANT MATURITY.
- 2. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY LOCATOR SERVICE, NO CUTS, TO LOCATE ALL EXISTING UNDERGROUND ELECTRICAL AND TELEPHONE UTILITIES. CONTRACTOR TO MAKE THIS CONTACT PRIOR TO BEGINNING CONSTRUCTION.
- 3. LANDSCAPE CONTRACTOR SHALL VERIFY PLANS IN THE FIELD AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. TREE PLANTINGS AND BED LINES SHALL BE STAKED BY LANDSCAPE CONTRACTOR FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE ADJUSTMENTS TO PLANTING LOCATIONS AS NEEDED.
- 5. BASE BID ITEMS INCLUDE ALL GRADING, PLANTINGS, MULCHING, AN IRRIGATION SYSTEM WHICH INCLUDES TAP FEES, A BACKFLOW PREVENTER, RAIN GAUGE, TWO HOSE BIBS AND 100% COVERAGE TO ALL PLANT BEDS AND SOD ON SITE. ALL PLANT BEDS SHALL RECEIVE IN-LINE DRIP IRRIGATION SPACED NO GREATER THAN 24" APART, AND ALL SODDED AREAS SHALL RECEIVE OVERHEAD SPRAY IRRIGATION. SPRAY IRRIGATION SHALL NOT BE CAST ONTO ANY HARDSCAPE AND/OR VERTICAL ELEMENTS. LANDSCAPE CONTRACTOR TO PROVIDE AS-BUILD DRAWING PER REQUEST OF ARB.
- 6. ADD DOUBLE GROUND HARDWOOD MULCH TO ALL BEDS AT 3 INCH DEPTH, UNLESS OTHERWISE NOTED.
- 7. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTS & WORK DURING THE COURSE OF THE PROJECT UNTIL FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT.
- 8. LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT.
- 9. THE LANDSCAPE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS WHERE ADDITIONAL SUSPECTED UNDERGROUND UTILITIES MAY EXIST. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES, BOTH KNOWN AND UNKNOWN. ALSO, HE SHALL EXERCISE INDUSTRY STANDARD SAFETY PRACTICES WHILE WORKING NEAR VEHICULAR TRAFFIC.
- 10. LANDSCAPE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR TEMPORARY IRRIGATION SYSTEM SERVICES, PERMITS AND FEES AS NEEDED.
- 11. LANDSCAPE CONTRACTOR TO PROVIDE 3" COMPOST TO ALL BEDS AND FINE GRADE TO PROVIDE SMOOTH TRANSITION INTO EXISTING GRADES. GRADE TO PREVENT PONDING.
- 12. CONTRACTOR SHALL VERIFY PLANT COUNT. PLANT MATERIAL LIST IS PREPARED FOR ESTIMATING PURPOSES ONLY. CONTRACTORS SHALL MAKE THEIR OWN QUANTITY TAKEOFFS USING DRAWINGS TO DETERMINE QUANTITIES TO THEIR SATISFACTION. THE SYMBOLS ON THE PLANTING PLAN SUPERCEDE THE PLANT SCHEDULE. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL REPORT ANY DISCREPANCIES WHICH MAY AFFECT BIDDING TO LANDSCAPE ARCHITECT.
- 13.IF SEASONAL CONDITIONS NECESSITATE THE NEED FOR CONTAINER GROWN STOCK WHEN BALLED AND BURLAPPED PLANT MATERIAL IS SPECIFIED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SUBSTITUTION.
- 14.IF PRESENT, LANDSCAPE CONTRACTOR TO INCLUDE ALL PUMPS AND FILTERS SUITABLE FOR AQUATIC PLANT CULTURE IN POOLS.
- 15. CONTRACTOR SHALL SUBMIT SEVERAL SOIL SAMPLES OF EXISTING SOIL AND ADDITIONAL SOIL BROUGHT ON-SITE. CONTRACTOR SHALL PROVIDE RESULTS TO LANDSCAPE ARCHITECT AND VERIFY THAT SOIL CONDITIONS ARE OPTIMAL BEFORE ANY PLANTING COMMENCES.
- 16.REQUIREMENTS FOR MEASUREMENT, BRANCHING, GRADING, QUALITY OF CONTAINER GROWN PLANTS AND BALLED AND BURLAPPED PLANTS SHALL FOLLOW OR EXCEED THE STANDARD CURRENTLY RECOMMENDED BY THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.

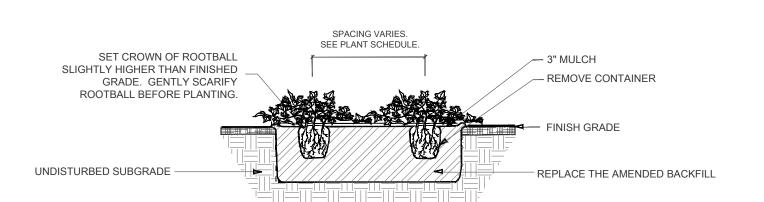
## PLANTING DETAILS:





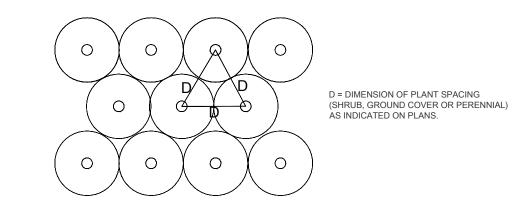






NOTE: AMENDED BACKFILL TO CONSIST OF BUILDERS SAND COMPOST, AND SCREENED







SHRUB / GROUNDCOVER SPACING



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DESIGN LANDSCAPE ARCHITECT



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MULBERRY STREET

EMETERY ENHANCEMENTS

101 W MULBERRY ST.

LAGRANGE, GA 30240

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**Mulberry Street Cemetery** 

PLANTING & FURNISHINGS SCHEDULE & NOTES

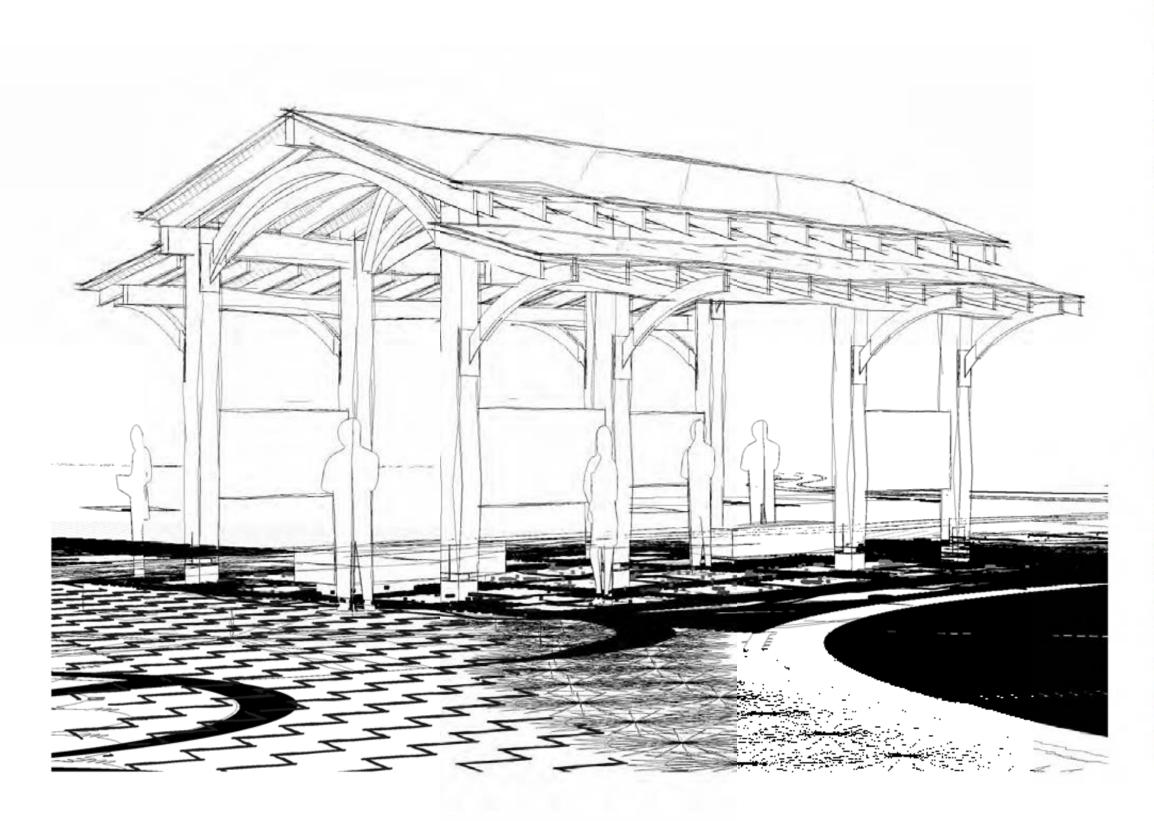
Date 31 MAY, 2024

Drawn by MNG

Checked by MLF

Scale

L6.1





# MULBERRY CEMETERY

101-299 MILLER ST. LAGRANGE, GA 30240

PERMIT DRAWINGS MAY 31<sup>st</sup>, 2024

### **EXPERIENTIAL DESIGN:**

**HW Exhibits** 498 Wando Park Blvd Suite 700 Mt Pleasant, SC 29464

Contact: Andrew Steever Andrew@hwexhibits.com 843.881.3128, x30

## LANDSCAPE ARCHITECT:

Outdoor Spatial Design Landscape Architects 1060 E Montague Ave STE 315 North Charleston, SC 29405

Contact: Evan Brandon Evan@osdla.com 843.733.3325

### **ARCHITECT:**

Simons Young + associates 3 Morris St. Suite B Charleston, SC 29403

Contact: Simons Young Simons@simonsyoung.com 843.277.0996

### **SHEET LIST:**

Project Information

G002 Site Plan

A100 Existing Band Stand

A101 Floor Plan +RCP

A102 Signage Structures

Elevations

A402 Details

A900 Design Inspiration

S100 Structural Details

S101 Structural Details

S102 Structural Details

S103 Structural Details

S104 Structural Details

S105 Structural Details

## **STRUCTURAL ENGINEER:**

Nabih Youssef Associates 753 Johnnie Dodds Blvd Suite 100 Mount Pleasant, SC 29464

Contact: Corey Barber cbarber@nyase.com 213.362.0707

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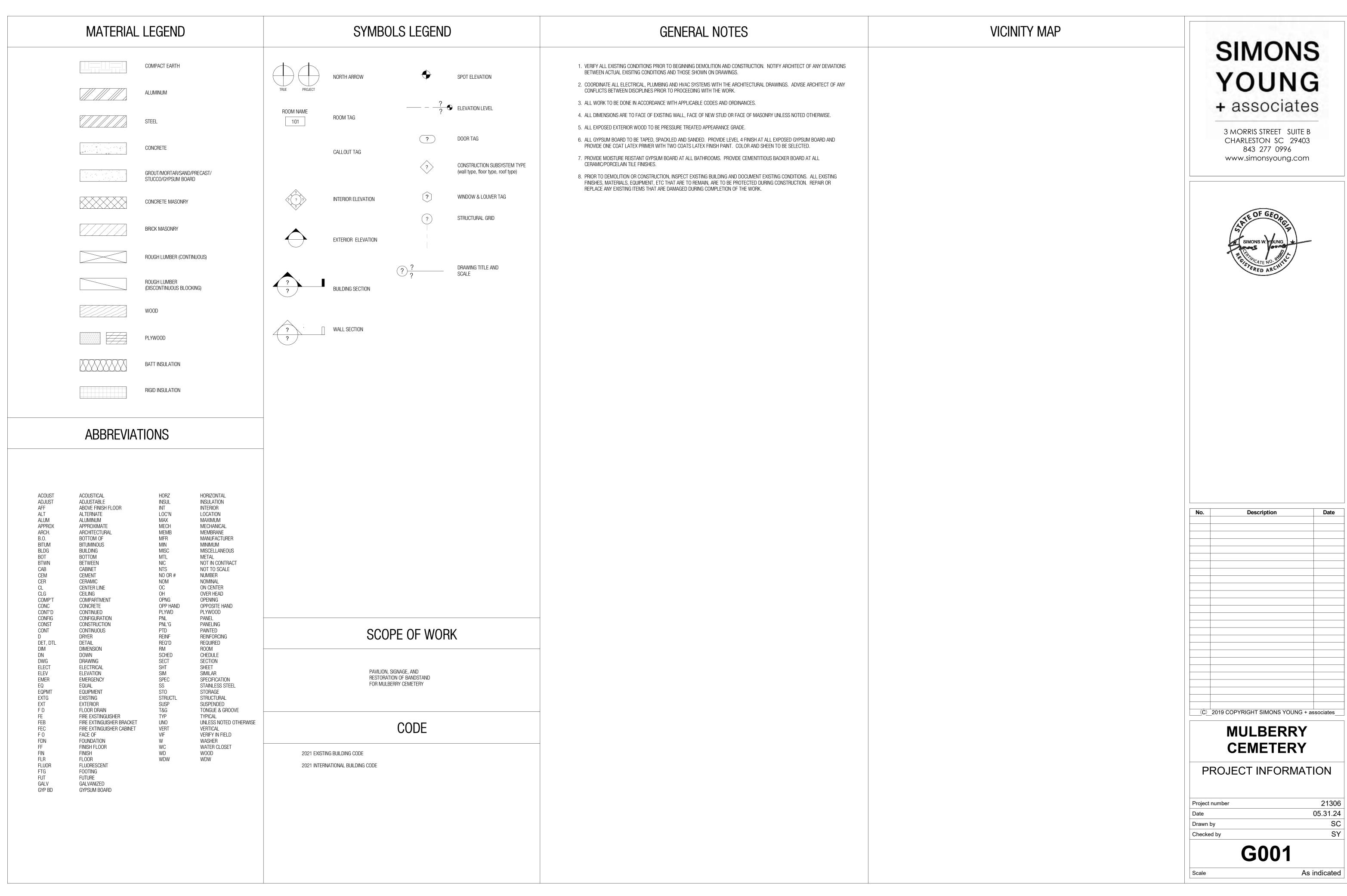
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Cover

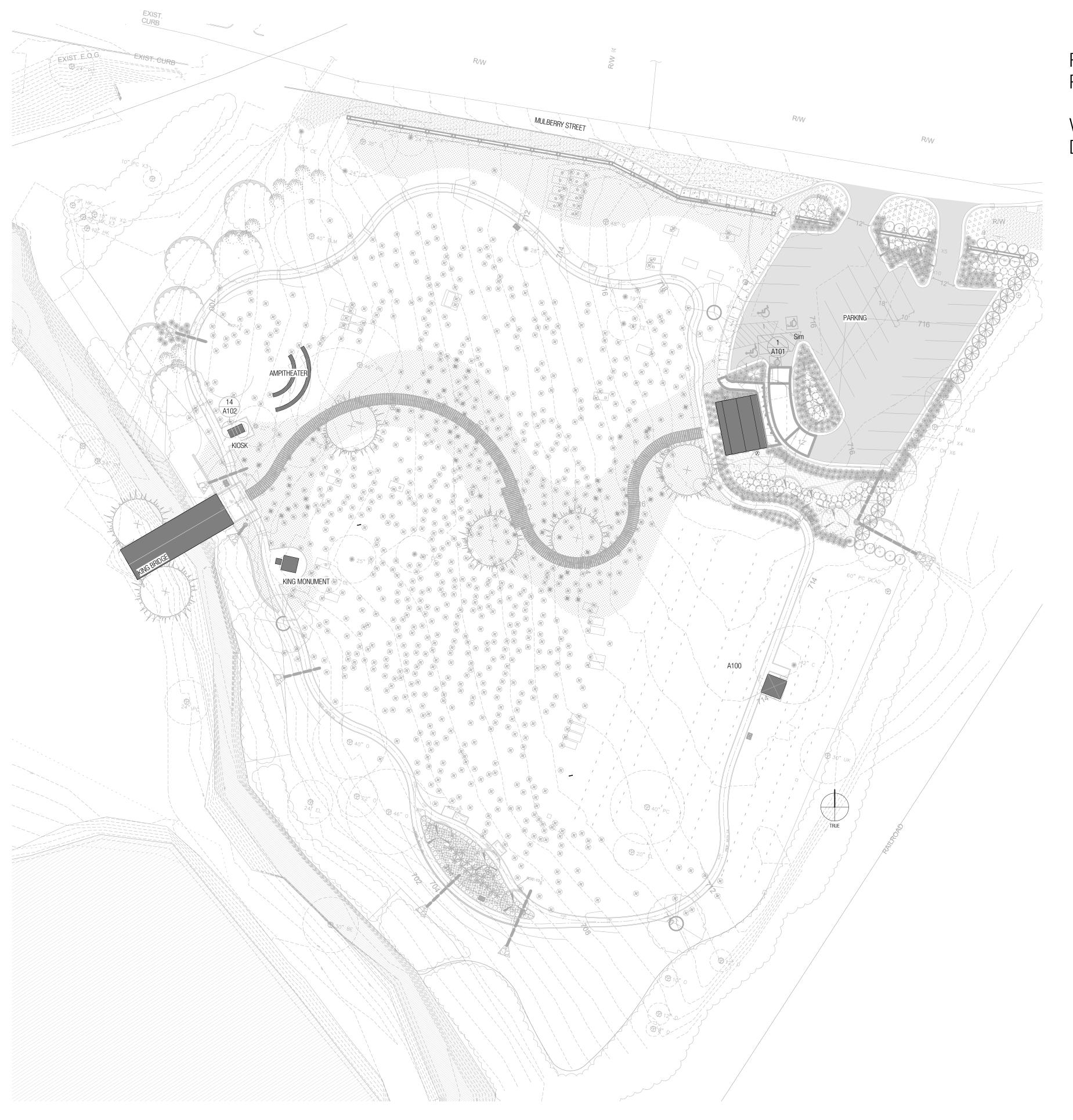
21306 05.31.24

**G000** 

Scale



/2024 3:06:45 PM



REFER TO LANDSCAPE + CIVIL FOR COMPLETE SITE PLANS

VERIFY LOCATIONS OF SIGNAGE WITH LANDSCAPE DRAWINGS

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## MULBERRY CEMETERY

Site Plan

Project number	21306
Date	05.31.24
Drawn by	SC
Checked by	SY

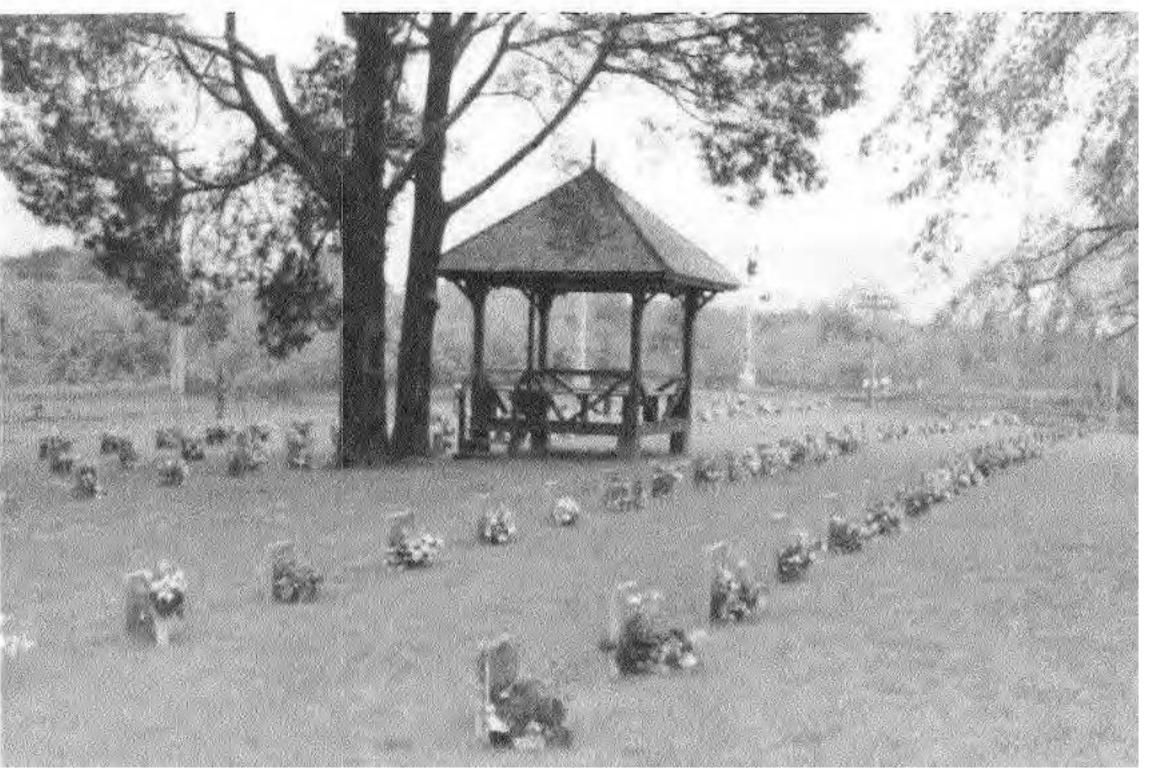
G002

1" = 30'-0"

1" = 30'-0"



# 3146371 Print, Photographic



ORIGINAL CONFIGURATION

#### **DESCRIPTION OF REPAIR:**

THE BELOW REPAIR APPROXIMATELY FOLLOWS THE SECRETARY OF INTERIOR'S STANDARDS FOR THE REPAIR OF HISTORIC STRUCTURES. SHOULD THE CITY WISH TO RE-BUILD WITH MODERN CONSTRUCTION METHODS, ARCHITECT WILL MODIFY SCOPE OF WORK.

ROOF - INSTALL NEW WOOD SHINGLE ROOF WITH COPPER RIDGE AND FINIAL COVER:

REMOVE EXISTING METAL RIDGE, REMOVE WOOD SHAKE

INSPECT ROOF SHEATHING OR SKIP SHEATHING. INSPECT ROOF FRAMING

REPLACE ANY ROTTEN WOOD FRAMING. CONTRACTOR MAY NEED TO SISTER EXISTING STRUCTURE WITH NEW TREATED 2X6

ADD NEW 1X4 TREATED SKIP SHEATHING BETWEEN EXISTING SKIP SHEATHING.

INSTALL NEW WOOD SHAKE, PROVIDE SAMPLE OF NEW SHAKE ALONGSIDE EXISTING FOR COMPARISON.

ROOF FINIAL TO REMAIN IN PLACE, LIGHTLY SAND AND SCRAPE, PREP, AND PAINT.

PEEL AND STICK FLASHING AROUND FINIAL. INSTALL PRE-FABRICATED COPPER COLLAR OVER TOP AND AROUND FINIAL BASE, WEATHER LAP TO COPPER

INSTALL COPPER RIDGE AT EACH RIDGE WITH CONCEALED CLIP FASTENERS.

CEILING, EAVES, BRACKET, COLUMN, BEAM REPAIRS

THESE ELEMENTS APPEARS TO BE ORIGINAL.

HAND SCRAPE AND SAND BEAD BOARD, PATCH HOLES WITH 2 PART EPOXY

PRIME AND PAINT

REPLACE ONLY BOARDS THAT ARE ROTTEN

HAND SCRAPE AND SAND WOOD BRACKETS, PRIME, AND PAINT

#### DECKING AND FRAMING

REMOVE EXISTING 2X DECKING. INSPECT FRAMING.

REPLACE FLOOR FRAMING WITH PT GROUND RATED TREATED WOOD @ 16" O.C.

INSTALL 1X6 IPE DECKING.

INSTALL PT GROUND CONTACT RATED 4X4 HORIZONTAL RAIL, TOE SCREW TO COLUMN FROM BELOW WITH SIMPSON 6" SDWS SCREWS INSTALL PT 4X4 DIAGONAL "V" BRACING BELOW RAILING TO MATCH PICTURE.

#### STAIR AND HANDRAIL:

INSTALL OPEN TREAD STAIR ON GROUND RATED PT WOOD BETWEEN 2 STRINGERS TO MATCH HISTORIC PHOTOGRAPH

INSTALL TWO 36" HANDRAIL TO EXISTING COLUMN

REPLACE EXISTING 4X4 COLUMN WITH NEW 4X4 COLUMN WITH 1/2" EASED EDGE TO MATCH EXISTING COLUMNS , PAINT PROVIDE 30" X 36" BRICK LANDING AT BASE OF STEPS, SET BRICK ON CONCRETE PAD. MATCH BRICK TO HISTORIC PIERS.

#### BRICK PIERS AND LATTICE

REMOVE LATTICE

INSPECT PIERS, REPOINT IF NECESSARY

3. IF ANY PIERS DO NOT APPEAR TO BE ORIGINAL MATCHING BRICK, THEN: ALTERNATE 1: PAINT BRICK WITH A BREATHABLE PAINT 10 PERMS OR GREATER -SHERWIN WILLIAMS LOXON OR SIMILAR

#### PIER TO COLUMN CONNECTION

REMOVE NON HISTORIC MATERIAL, INSPECT AND PHOTOGRAPH, CONSULT ARCHITECT. PROVIDE PRICING FOR EPOXY ANCHOR OF SIMPSON HOLD DOWN TO MASONRY PIER AND FASTENING TO CONCEALED SIDE OF COLUMN.

# SIMONS YOUNG

**Troup County Archives** 

+ associates

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**MULBERRY CEMETERY** 

**Existing Band Stand** 

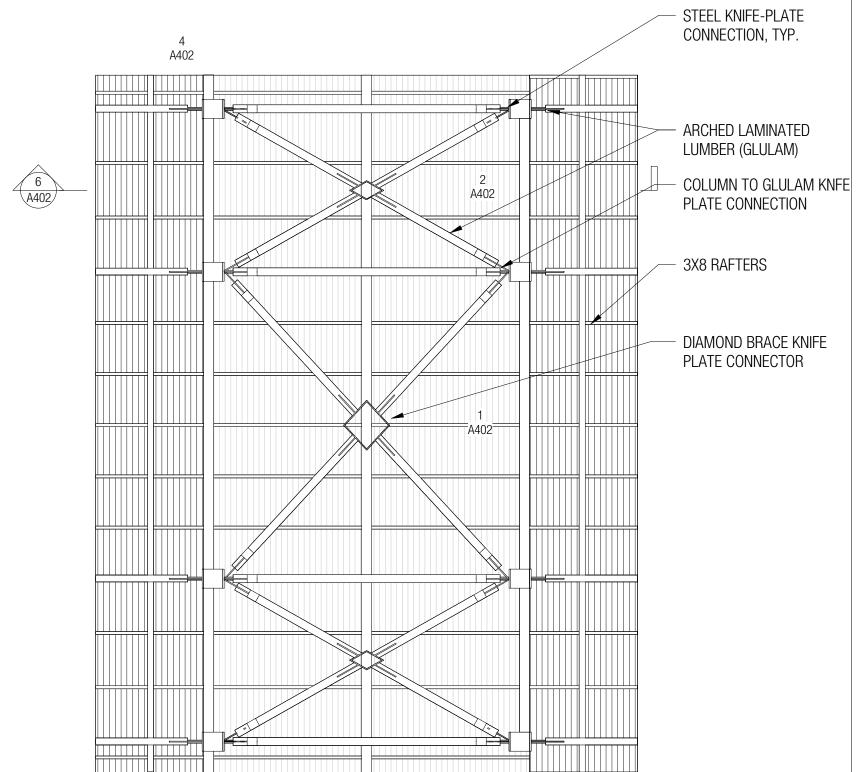
Project number	21306
Date	05.31.24
Drawn by	SC
Checked by	SY

A100

Scale

# SEE LANDSCAPE FOR SITE DETAILS BRICK BORDER ON SALT FINISHED CONCRETE SLAB, SEE LANDSCAPE DRAWINGS FOR DETAILS 10X10 COLUMN WITH KNIFE PLATE DETAIL AT BASE CONCRETE BENCH WITH TOE-KICK 4' - 6" 2' - 0" PARKING AREA SEE LANDSCAPE FOR BRICK DETAILING 1 A104 - CONTROL JOINTS SEE LANDSCAPE FOR BOLLARD LOCATIONS 13' - 7" 4' - 6" 4' - 6" $1 \frac{\text{Floor Plan}}{1/4" = 1'-0"}$

#### \*\*SEE LANDSCAPE DRAWINGS FOR FINAL SITE PLAN AND STRUCTURE LOCATIONS



Peflected Ceiling Plan 1/4" = 1'-0"

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No.	Description	Date

MULBERRY CEMETERY

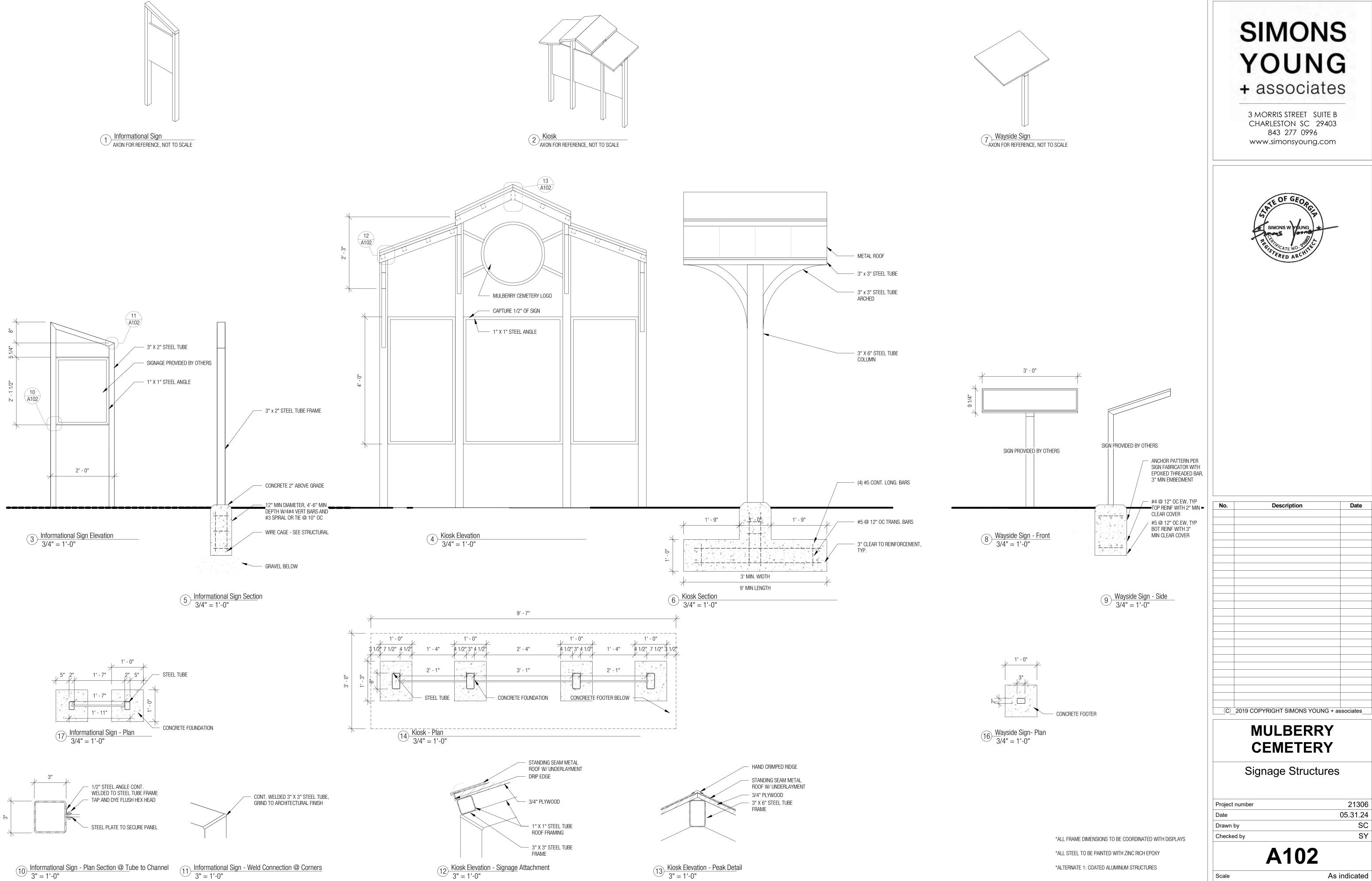
Floor Plan + RCP

Project number	21306
Date	05.31.24
Drawn by	SC
Checked by	SY

A101

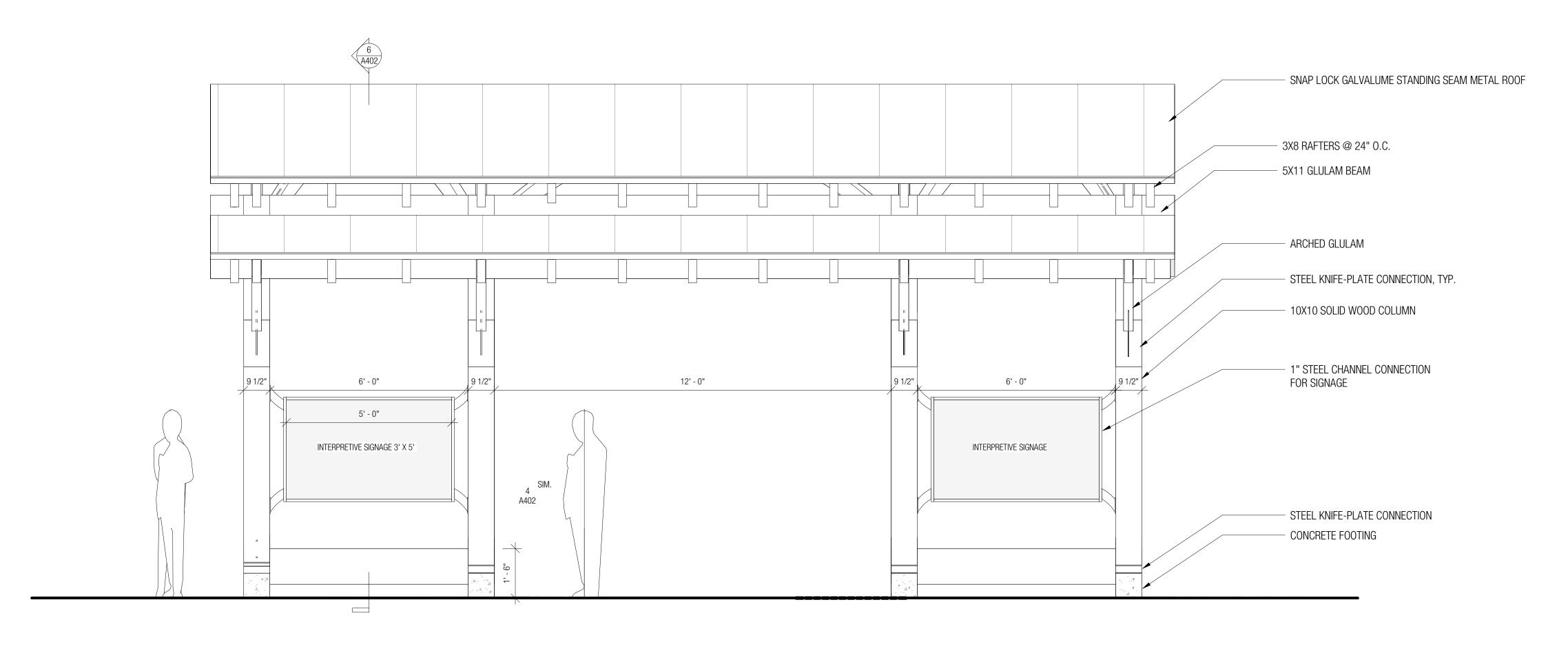
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1/4" = 1'-0"

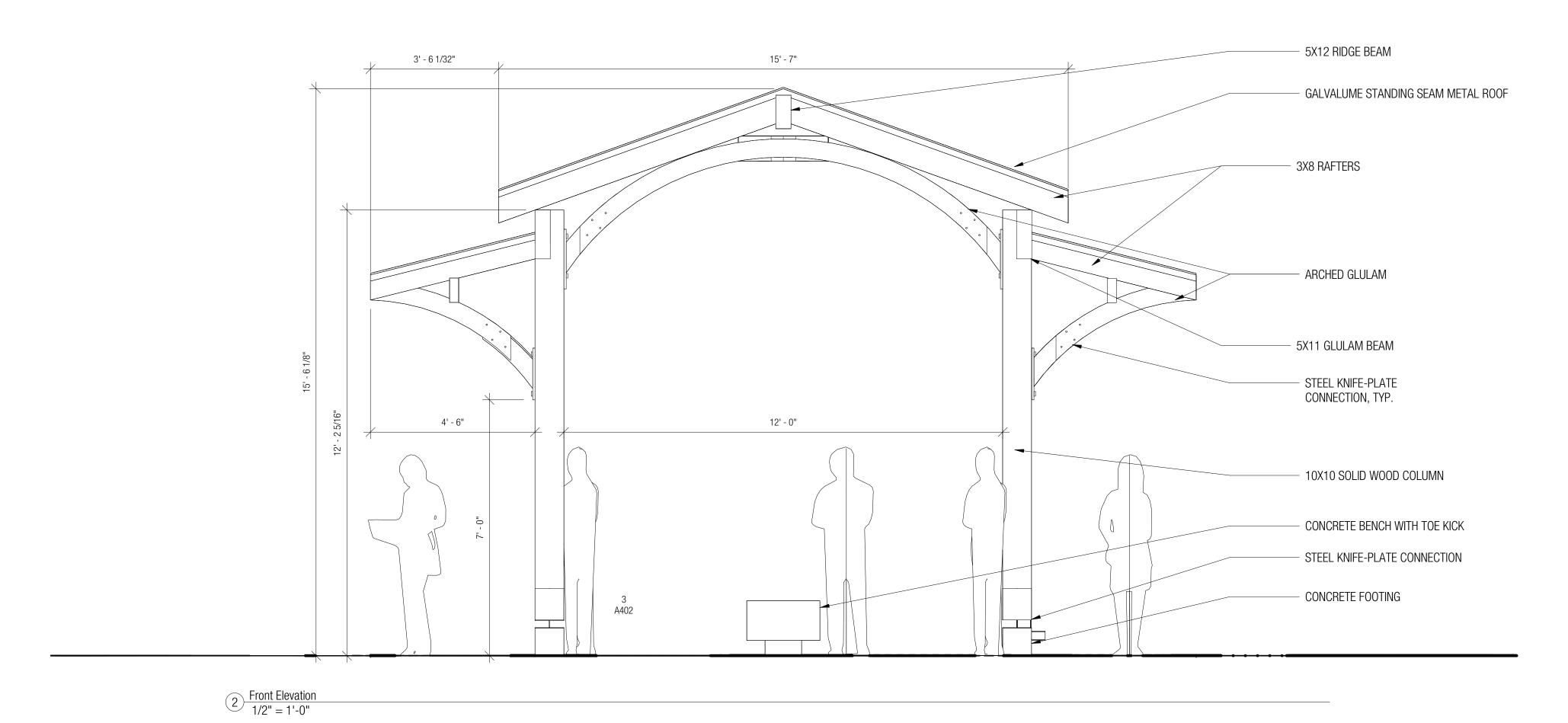


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## Side Elevation 1/2" = 1'-0"



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MULBERRY CEMETERY

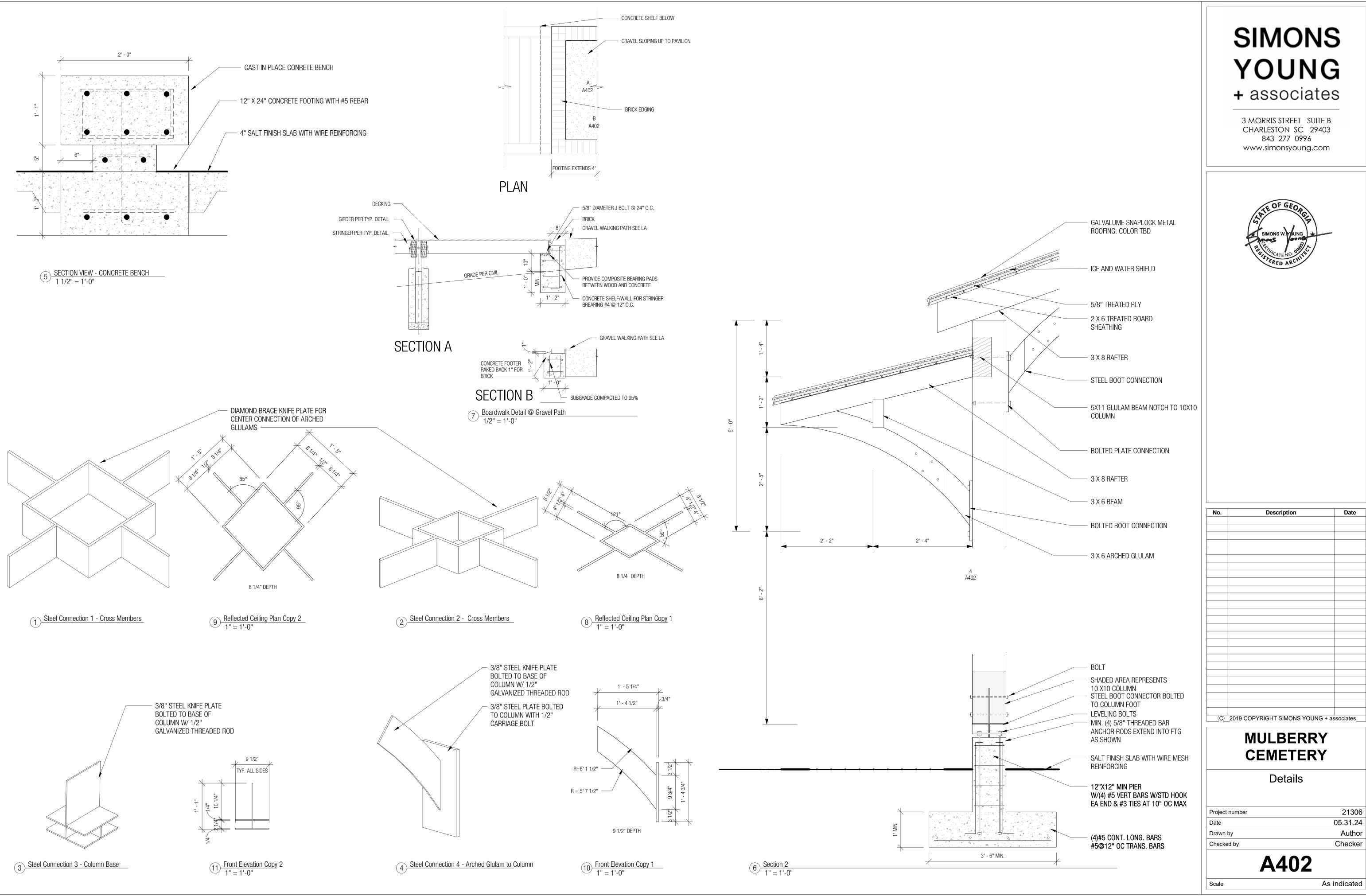
Elevations

Project number	21306
Date	05.31.24
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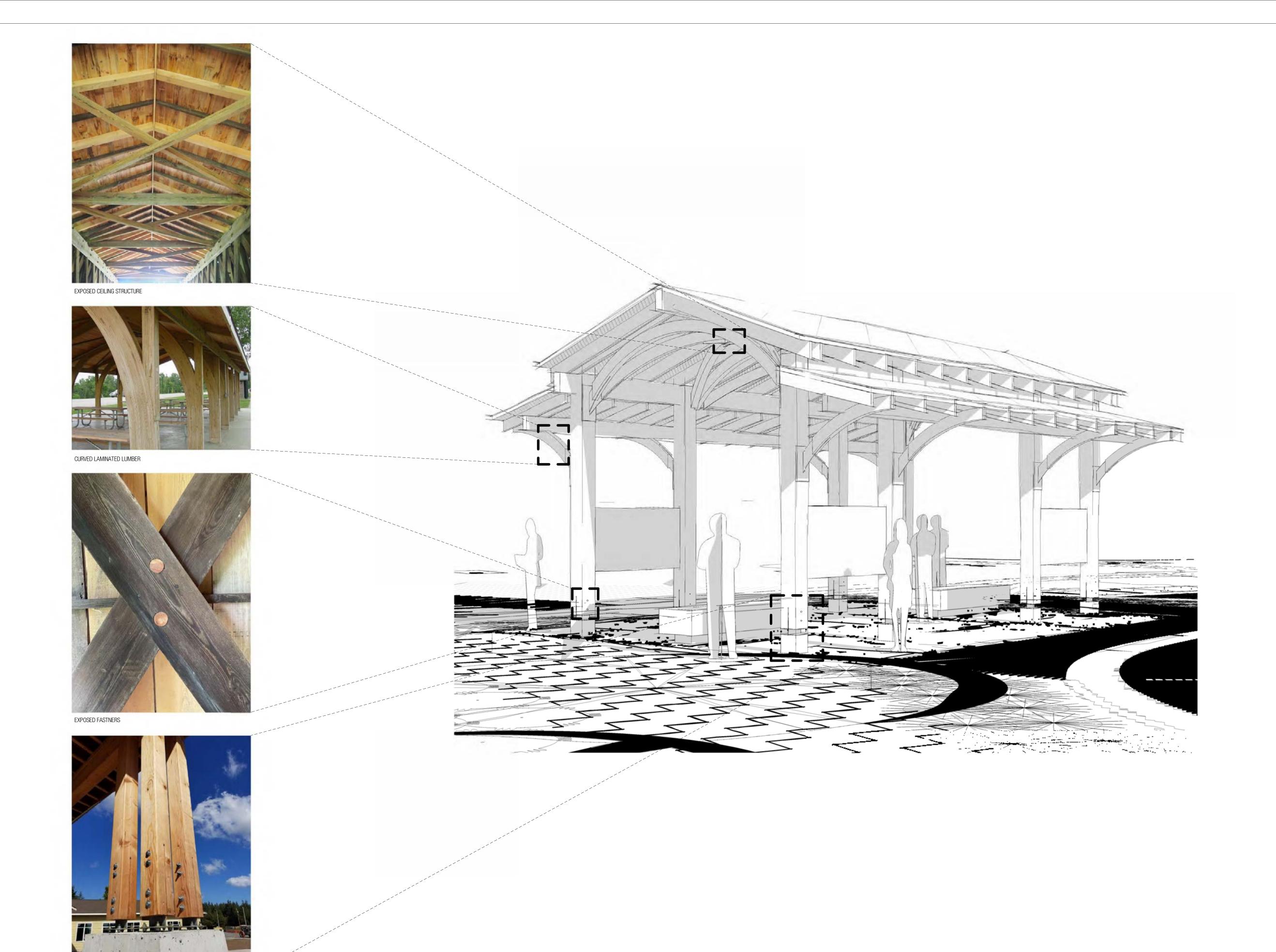
A104

Scale

1/2" = 1'-0"



Project number	21306
Date	05.31.24
Drawn by	Author
Checked by	Checker



KNIFE PLATE WITH LEVELING BOLT

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## **MULBERRY CEMETERY**

Design Inspiration

Project number	21306
Date	05.31.24
Drawn by	Author
Checked by	Checker

A900

#### 7. TIMBER:

- 1. ALL LUMBER FOR STUD FRAMING SHALL BE SOUTHERN PINE, #2 OR BETTER, U.N.O.
- 2. ALL TIMBER HEADERS, POSTS, AND JOISTS SHALL BE SOUTHERN PINE, #2 OR BETTER, U.N.O.
- 3. ALL GLUE-LAMINATED TIMBERS (GLU-LAMS) SHALL BE TYPE 24F-V8 GRADE, U.N.O. GLUED-LAMINATED TIMBERS SHALL BE FABRICATED IN A LICENSED SHOP. IDENTIFY GRADE SYMBOL AND LAMINATION SPECIES PER 2015 NDS SUPPLEMENT TABLE 5-A.
- 4. ALL LUMBER IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED. ALL LUMBER EXPOSED TO WEATHER TO BE NATURALLY DURABLE OR PRESSURE TREATED.
- 5. ALL PLYWOOD SHEATHING SHALL BE MARKED STRUCTURAL 1 BY THE APA AND BONDED WITH EXTERIOR GLUE. ALL FLOOR SHEATHING SHALL BE BLOCKED AT UNSUPPORTED EDGES AND BE 3/4", 48/24. ALL ROOF SHEATHING SHALL BE BLOCKED AT UNSUPPORTED EDGES AND BE 1/2", 24/16. ALL PLYWOOD PANELS WITH EXPOSED SURFACES SHALL BE ACX PS5-I WITH FACE VENEER APPROVED BY THE ARCHITECT.
- 6. ALL NAILS SHALL BE COMMON WIRE NAILS. MINIMUM NAILING TO BE IN ACCORDANCE WITH IBC TABLE 2403.10.1, U.N.O. 1-1/2" OF PENETRATION FOR 10d AND 16d IS REQUIRED. PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAILPOINT. ALL NAILS EXPOSED TO WEATHER TO BE HOT DIP GALVANIZED
- 7. ALL FRAMING HARDWARE ARE SIMPSON STRONG-TIE CONNECTORS, U.N.O.. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT REQUIREMENTS. ALL BOLTS IN HOLD-DOWN ANCHORS SHALL BE TORQUED PER MANUFACTURERS REQUIREMENTS.
- 8. ALL BOLTS IN WOOD SHALL BE A-307 STANDARD BOLTS, U.N.O. ALL BOLTS EXPOSED TO WEATHER TO BE HOT DIP GALVANIZED. PROVIDE PLATE WASHERS AT ALL BOLTS, SIZE AS FOLLOWS:

BOLT SIZE	PLATE WASHER SIZ
1/2"	1/4" x 3" x 3"
5/8"	1/4" x 3" x 3"
3/4"	5/16" x 3" x 3"
7/8"	5/16" x 3" x 3"
1"	3/8" x 3-1/2" x 3-1/2"

#### 9. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED, UNLESS NOTED OTHERWISE.

- 10. DO NOT CUT, BORE, COUNTERSINK OR NOTCH WOOD MEMBERS EXCEPT WHERE SHOWN IN THE DETAILS. HOLES THROUGH PLATES, STUDS AND DOUBLE PLATES IN WALLS SHALL NOT EXCEED 40% OF THE MEMBER WIDTH AND SHALL BE LOCATED IN THE CENTER OF THE MEMBER.
- 11. NUTS OF PRIMARY AND SECONDARY ANCHOR FASTENERS SHALL BE WRENCH TIGHTENED PRIOR TO INSPECTION AND COVERING.
- 12. EXTERIOR ANCHOR BOLTS AND POST BASES SHALL BE GALVANIZED AND EACH ANCHOR BOLT SHALL HAVE AT LEAST TWO GALVANIZED NUTS ABOVE BASE PLATE.
- 13. ROOF & FLOOR DIAPHRAGM NAILING SHALL BE INSPECTED BEFORE COVERING. FACE GRAIN OF THE PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. ROOF & FLOOR SHALL HAVE BLOCKED PANEL EDGES. PLYWOOD SPANS SHALL CONFORM WITH IBC TABLE 2304.8.
- 14. FOR ALL ENGINEERED WOOD PRODUCTS, PLYWOOD, COMPOSITE WOOD, ADDED UREA FORMALDEHYDE SHALL NOT BE USED.
- 15. UNLESS NOTED OTHERWISE, ALL WOOD ELEMENTS SHALL BE CONNECTED AS INDICATED ON THE NAILING SCHEDULE IN THE IBC TABLE 2304.10.1.
- 16. FASTENERS USED IN FIRE-RETARDANT-TREATED OR PRESERVATIVE-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER.
- 17. LEAD HOLES FOR FASTENERS SHALL BE 40%-70% OF THE THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.

#### 6. REINFORCEMENT:

- 1. ALL REINFORCING BARS SHALL BE ASTM A-615 GRADE 60.
- 2. WELDED REINFORCING BARS TO COMPLY WITH ASTM A-706 [Fy=60 KSI] AND WELDING SHALL CONFORM TO AWS D1.4.. WELDING TO BE DONE BY WELDERS CERTIFIED BY THE BUILDING DEPARTMENT.
- 3. REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM COVERAGE, UNLESS NOTED OTHERWISE. PLACE BARS AS NEAR THE CONCRETE SURFACE AS THESE MINIMUMS PERMIT:

MIN. CONCRETE COVER	
CONCRETE POURED AGAINST EARTH	3"
FORMED CONCRETE IN CONTACT WITH EARTH	2"
FACE OF CONCRETE EXPOSED TO WEATHER (#6 AND LARGER)	2"
FACE OF CONCRETE EXPOSED TO WEATHER (#5 AND SMALLER)	1-1/2"
SLABS AND WALLS NOT EXPOSED TO WEATHER (#14 AND LARGER)	1-1/2"
SLABS AND WALLS NOT EXPOSED TO WEATHER (#11 AND SMALLER)	1"

- 4. #5 AND LARGER REINFORCING BARS SHALL NOT BE SPLICED EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS. #4 AND SMALLER BARS WITH LENGTH NOT SHOWN SHALL BE CONTINUOUS, LAPPING 1'-6" MINIMUM IN CONCRETE (SEE SCHEDULE). ALL BARS ENDING AT THE FACE OF A WALL, COLUMN, BEAM OR FOOTING SHALL EXTEND TO WITHIN 2" OF THE FAR FACE AND HAVE A 90 DEGREE HOOK UNLESS OTHERWISE SHOWN.
- 5. ALL LAP SPLICES ARE CLASS "B" LAP SPLICES, U.N.O.
- 10. REBAR BENDS SHALL BE MADE COLD. REBARS SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.
- 6. ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER, U.N.O..
- 7. BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE A.C.I. STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, U.N.O.. ALL DOWELS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE.
- 8. DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZE, CLEARANCES, LAPS, INTERSECTIONS AND COVERAGE REQUIRED BY STRUCTURAL DETAILS, APPLICABLE CODE AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS WHICH ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
- 9. NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE/ARCHITECT/ENGINEER. WHERE SHOWN ON THE DRAWINGS, WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS SPECIFICALLY CERTIFIED FOR REINFORCING STEEL. USE E90XX ELECTRODES.
- 10. WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A185 (Fy=65 KSI). MINIMUM LAP AT SPLICES 12 INCHES. PROVIDE MESH IN FLAT SHEETS ONLY. ROLLED MESH IS NOT ACCEPTABLE. OFFSET END-LAPS IN ADJACENT SHEETS TO PREVENT CONTINUOUS LAPS.
- 11. AT NON-STRUCTURAL ARCHITECTURAL CONCRETE TOPPINGS OR FILLS OCCURING ABOVE (N) OR (E) STRUCTURAL SLABS, PROVIDE ONE LAYER OF 6X6/W4XW4 WELDED WIRE FABRIC CONTINUOUS FOR EVERY 3" OF CONCRETE.
- 12. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AROUND ALL SLAB AND WALL OPENINGS INCLUDING DIAGONAL BARS WITHOUT EXCEPTION.

#### 4. FOUNDATIONS:

- 1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE PRESUMPTIVE LOAD-BEARING VALUES OF SOILS NOTED IN THE INTERNATIONAL BUILDING CODE IN LIEU OF AN GEOTECHNICAL INVESTIGATION REPORT. THE NATURE OF THE STRUCTURE AND SCOPE IS MINOR. OWNER UNDERSTANDS RISKS TAKEN WITH OPTING TO FOREGO THIS SOIL EVALUATION EXCERCISE.
- 2. PER IBC TABLE 1806.2, THE PRESUMPTIVE VALUES ARE AS FOLLOWS:
- A. CLASS OF MATERIALS: CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, AND SANDY SILT.
- B. VERTICAL FOUNDATION PRESSURE: 1,500 PSF
- C. LATERAL BEARING PRESSURE: 100 PSF/FT.
  D. LATERAL SLIDING RESISTENCE: COHESION 130 PSF

OFFICIAL. TOP OF FOOTING DATUM SHALL BE AS SHOWN ON PLANS.

- 3. BOTTOM OF FOOTINGS SHALL BE CALCULATED BASED ON THE INFORMATION SHOWN ON THE DRAWINGS AND MAY BE REVISED TO ENSURE MINIMUM FOOTING EMBEDMENTS AS REQUIRED BY THE BUILDING
- 4. ALL COMPACTED NATURAL SOIL, FILL, AND BACKFILL IS TO BE UNIFORMLY COMPACTED WITH APPROVED COMPACTION EQUIPMENT. STRUCTURAL FILLS SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D-1557.
- 5. WATER SHALL NOT BE ALLOWED TO STAND IN TRENCHES OR FORMS BEFORE OR AFTER CONCRETE IS PLACED, AND SHALL BE PUMPED OUT. IF BOTTOMS OF TRENCHES BECOME SOFTENED DUE TO RAIN OR OTHER WATER BEFORE FOOTINGS ARE CAST, THE CONTRACTOR SHALL, AT NO COST TO OWNER, EXCAVATE THE SOFTENED MATERIAL AND REPLACE WITH CONCRETE.
- 6. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- 7. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
- 8. NOTIFY THE OWNER'S REPRESENTATIVE / ARCHITECT / ENGINEER IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND.
- 9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.

#### 5. CONCRETE:

- 1. CONCRETE IS REINFORCED AND CAST-IN-PLACE U.N.O.. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE/ARCHITECT/ENGINEER.
- 2. ALL STRUCTURAL CONCRETE AND WET-MIX SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS, U.N.O. ON THE DRAWINGS:

<u>LO</u>	CATION	STRENGTH (fc)	W/C RATIO	DESIGN SLUMP
A.	FOUNDATIONS	4,000 PSI, NW	0.45	4"
B.	SLAB ON GRADE	4,000 PSI, NW	0.45	4"
E.	ALL OTHER CONCRETE	3,000 PSI, NW	0.40	5"

- 3. ALL STRUCTURAL CONCRETE MIXES SHALL BE TYPE II/V CEMENT AND SHALL BE DESIGNED BY AN APPROVED LABORATORY AND BEAR THE STAMP AND SEAL OF A REGISTERED ENGINEER.
- 4. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED
- 5. NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33. LIGHT WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-330.
- 6. NO MORE THAN ONE GRADE OF CONCRETE SHALL BE ON THE JOB SITE AT ANY ONE TIME.
- 7. THOROUGHLY CLEAN AND ROUGHEN ALL HARDENED CONCRETE AND MASONRY SURFACES TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.
- 8. KEY AND DOWEL POUR JOINTS AS SHOWN ON THE PLANS. ANY DEVIATION FROM POUR JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE/ARCHITECT/ENGINEER.
- 9. WHERE EXPOSED TO WEATHER OR MOISTURE, PROVIDE JOINT SEALANT OR WATERPROOFING AS REQUIRED BY ARCHITECT.
- 10. NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 6000 PSI. USE SIKA GROUT 212 OR ATLAS HI-FLOW GROUT OR EQUAL.
- 11. DEFECTIVE CONCRETE (VOIDS, ROCK POCKETS, HONEYCOMBS, CRACKING, ETC.) SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE/ARCHITECT/ENGINEER.
- 12. PRIOR TO ALL CORING, THE CONTRACTOR SHALL IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.

#### 1. STRUCTURAL SHEET LIST

S000	STRUCTURAL NOTES
S100	STRUCTURAL DETAILS
S101	STRUCTURAL DETAILS
S102	STRUCTURAL DETAILS
S103	STRUCTURAL DETAILS
S104	STRUCTURAL DETAILS

#### 2. BASIS OF DESIGN:

- 1. PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF A WOOD FRAMED PAVILLION, WOOD FRAMED BOARDWALK, SITE WALLS, EXHIBIT SIGNS AND DISPLAYS.
- 2. ALL NEW CONSTRUCTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH LOCAL AMENDMENTS.
- 3. VERTICAL LIVE LOADS (WITH CODE ALLOWABLE AREA REDUCTION U.N.O.):

4. SEISMIC DESIGN INFORMATION:

SEISMIC HAZARD FACTORS:

SITE CLASS D (ASSUMED)

Fa = 1.6

Fv = 2.5

Sds = 0.154

BOARDWALK: 100 PSF

Fa = 1.6 Fv = 2.5 Sds = 0.154 Sd1 = 0.125 SDC B = B

5. WIND DESIGN INFORMATION:

WIND LOAD PARAMETERS (ASCE 7-16):

RISK CATEGORY = II

V = 107 MPH

EXPOSURE CATEGORY = B

Kd = 0.85 (PAVILLION AND SIGNS, PER ASCE 7-16 TABLE 26.6-1)

Kzt = 1.0

G = 0.85

BLDG. CLASSIFICATION = OPEN

GCpi = 0.00

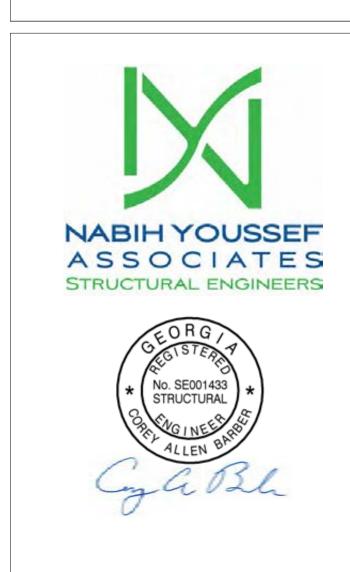
#### 3. GENERAL NOTES:

- 1. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE (U.N.O.)
- 2. THE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, AND LANDSCAPE ARCHITECTURE DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR, CHANGES OF ELEVATION, EDGE OF SLAB/WALLS, SIZE AND LOCATION OF, SLOPES, CURBS, EMBEDDED ITEMS, CHAMFERS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, ETC. REFER TO LANDSCAPE DRAWINGS FOR SIMILAR ITEMS AND THERE RELATION TO STRUCTURAL ITEMS
- 4. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WHICH IMPACT THE WORK. FIELD VERIFY SIZES, ELEVATIONS, LOCATIONS, ETC. PRIOR TO FABRICATION.
- 5. DRAWING DIMENSIONS ARE TO FACE OF FINISH, JOINT CENTERLINE OR COLUMN GRID CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.
- 6. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.
- 7. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER'S REPRESENTATIVE / ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 8. ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE / ARCHITECT / ENGINEER FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.
- 9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES AND GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED TO DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A ENGINEER LICENSED IN THE STATE.
- 10. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED.
- 11. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE / ARCHITECT / ENGINEER DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.
- 13. CONTRACTORS SHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO OWNER'S REPRESENTATIVE / ARCHITECT / ENGINEER.
- 14. REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM CONTRACT DOCUMENTS.
- 15. SHOP DRAWINGS WILL NOT BE PROCESSED DUE TO INCOMPLETENESS, LACK OF COORDINATION WITH RELEVANT PORTION OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS IF REQUIRED AND WHERE DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR WRITTEN APPROVAL FROM OWNER'S REPRESENTATIVE / ARCHITECT / ENGINEER.
- 16. ALLOW TEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS AFTER RECEIPT. ALLOW FIVE WORKING DAYS FOR PROCESSING RFI'S AFTER RECEIPT.

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NO.	Description	
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### MULBERRY CEMETERY

STRUCTURAL NOTES

Project number 22206

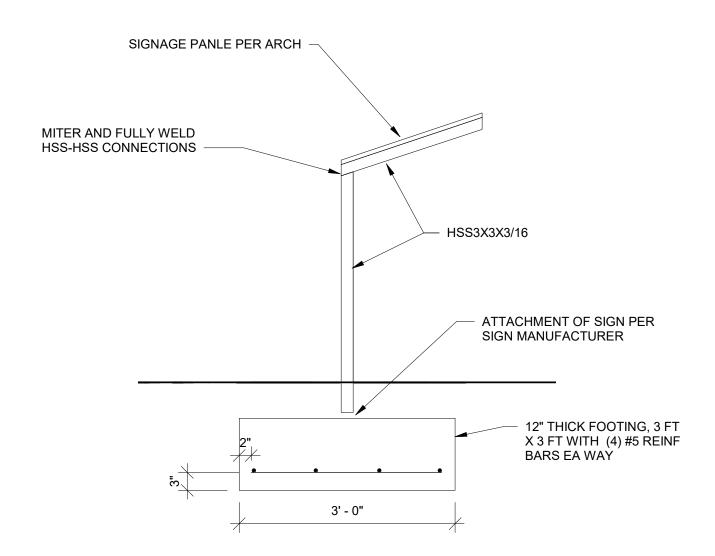
Date 05.31.2024

Drawn by CB

Checked by CB

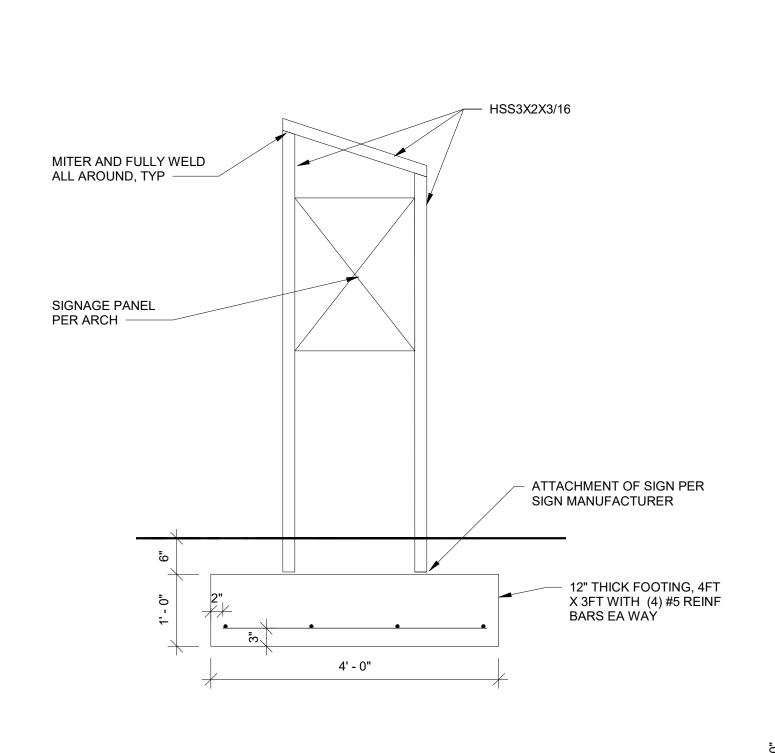
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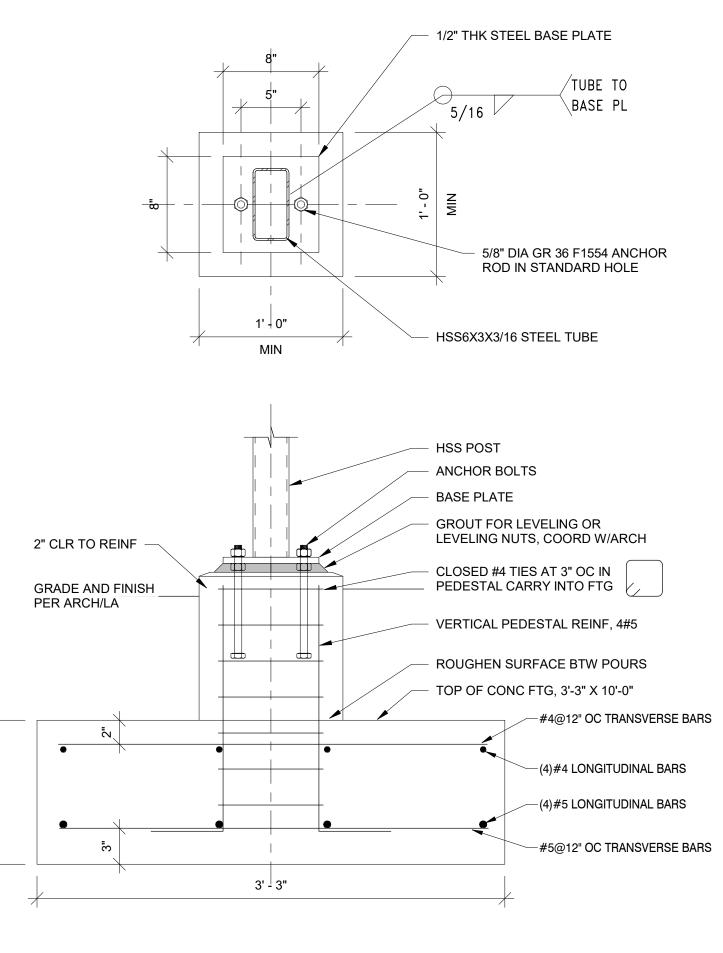
**S000** 



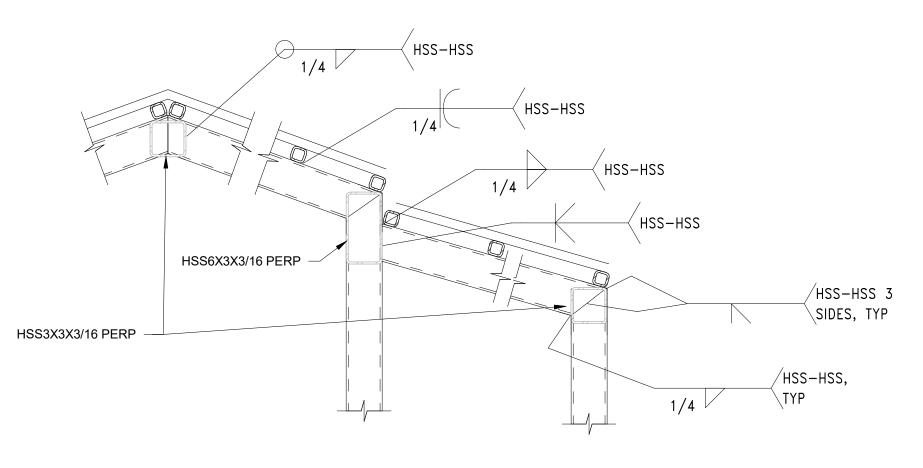
6 WAYSIDE SIGN 3/4" = 1'-0"

5 INFORMATIONAL SIGN 3/4" = 1'-0"





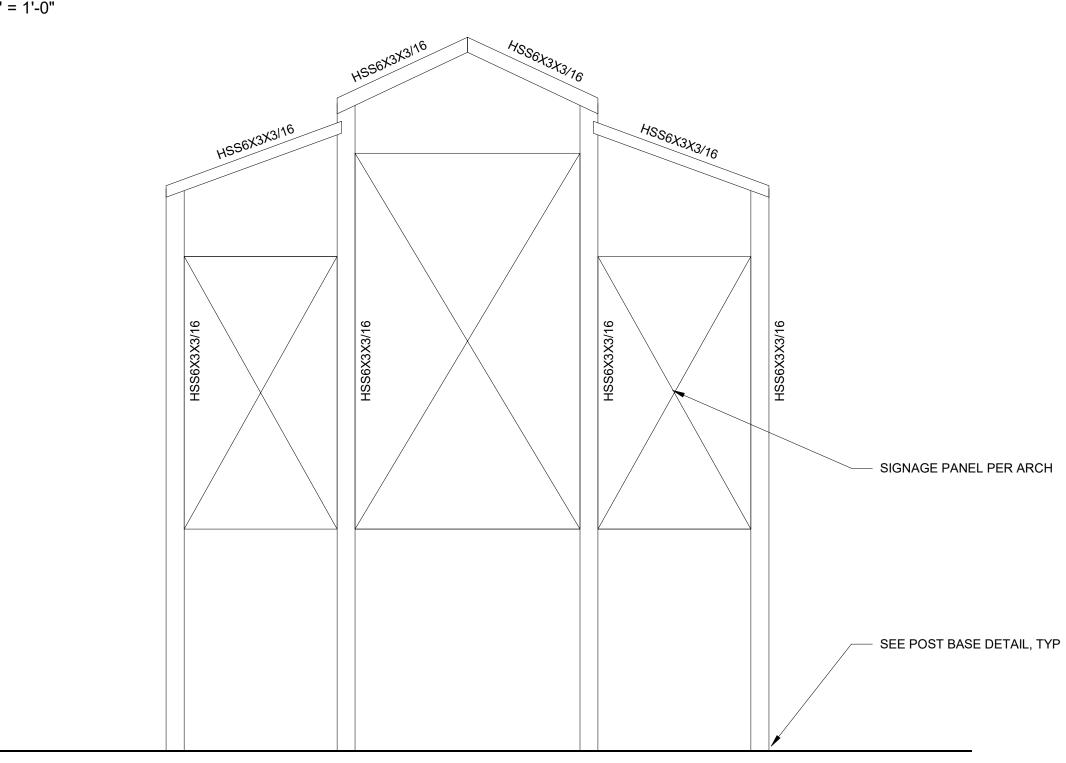
4 KIOSK POST BASE DETAIL 1 1/2" = 1'-0"



3 KIOSK HSS CONNECTIONS 1 1/2" = 1'-0"

	HSS3X3X3/16	HSS3X3X3/16	HSS3X3X3/16	HSS3X3X3/16
HSS3X3X3/16	HSS6X3X3/16	HSS3X3X3/16	HSS6X3X3/16	HSS3X3X3/16
	HSS6X3X3/16	HSS6X3X3/16	HSS6X3X3/16	HSS6X3X3/16
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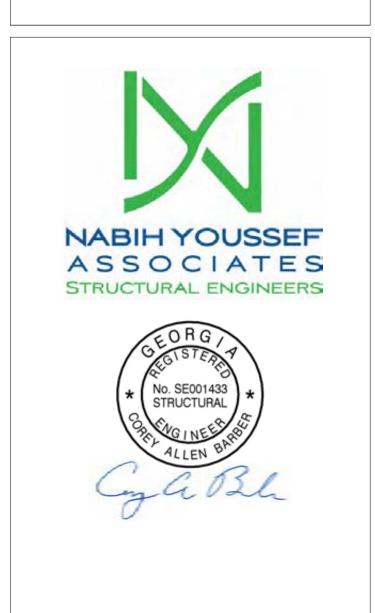
2 KIOSK ROOF PLAN VIEW 3/4" = 1'-0"



1 KIOSK ELEVATION STRUCT 3/4" = 1'-0" SIMONS YOUNG

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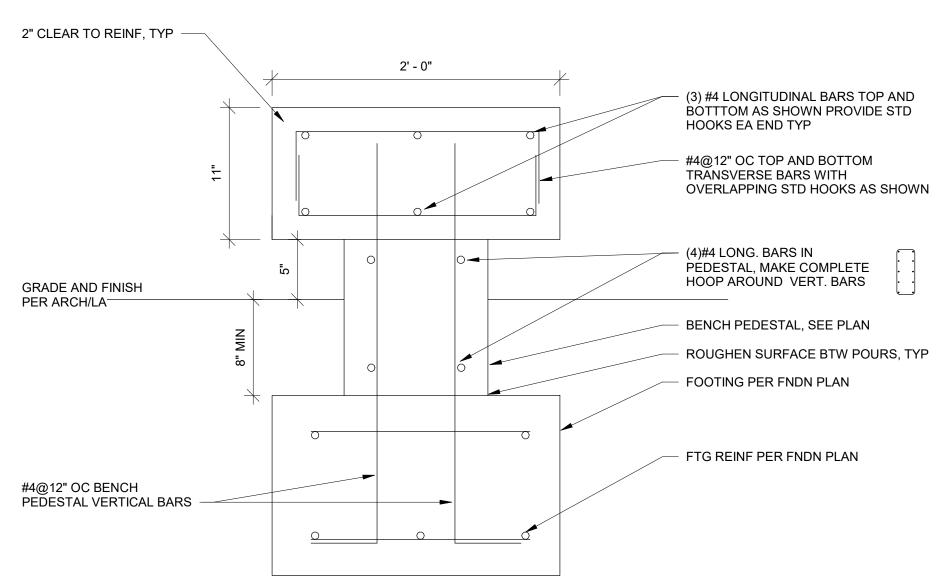
MULBERRY CEMETERY

STRUCTURAL DETAILS

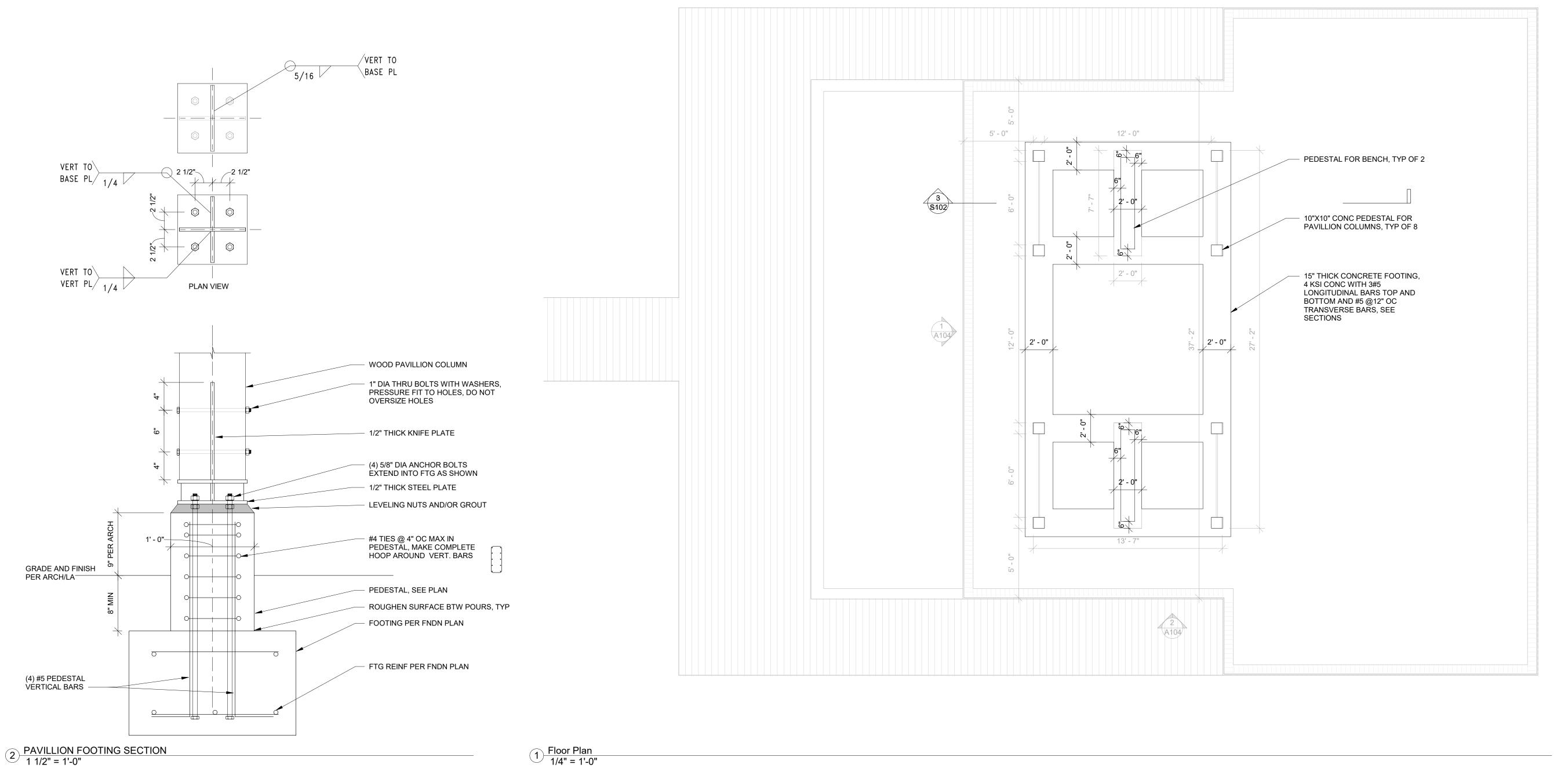
22206 05.31.2024
05.31.2024
СВ
СВ

**S100** 

Scale



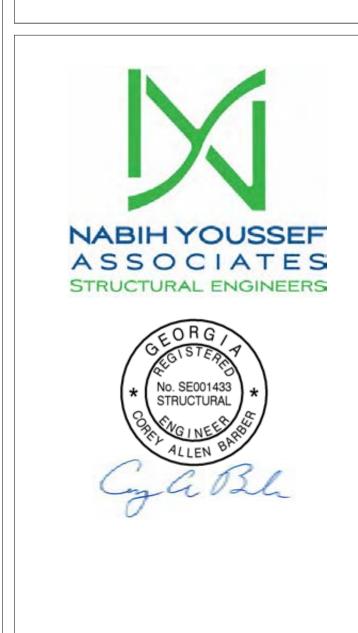
3 PAVILLION FOOTING SECTION AT BENCH 1 1/2" = 1'-0"



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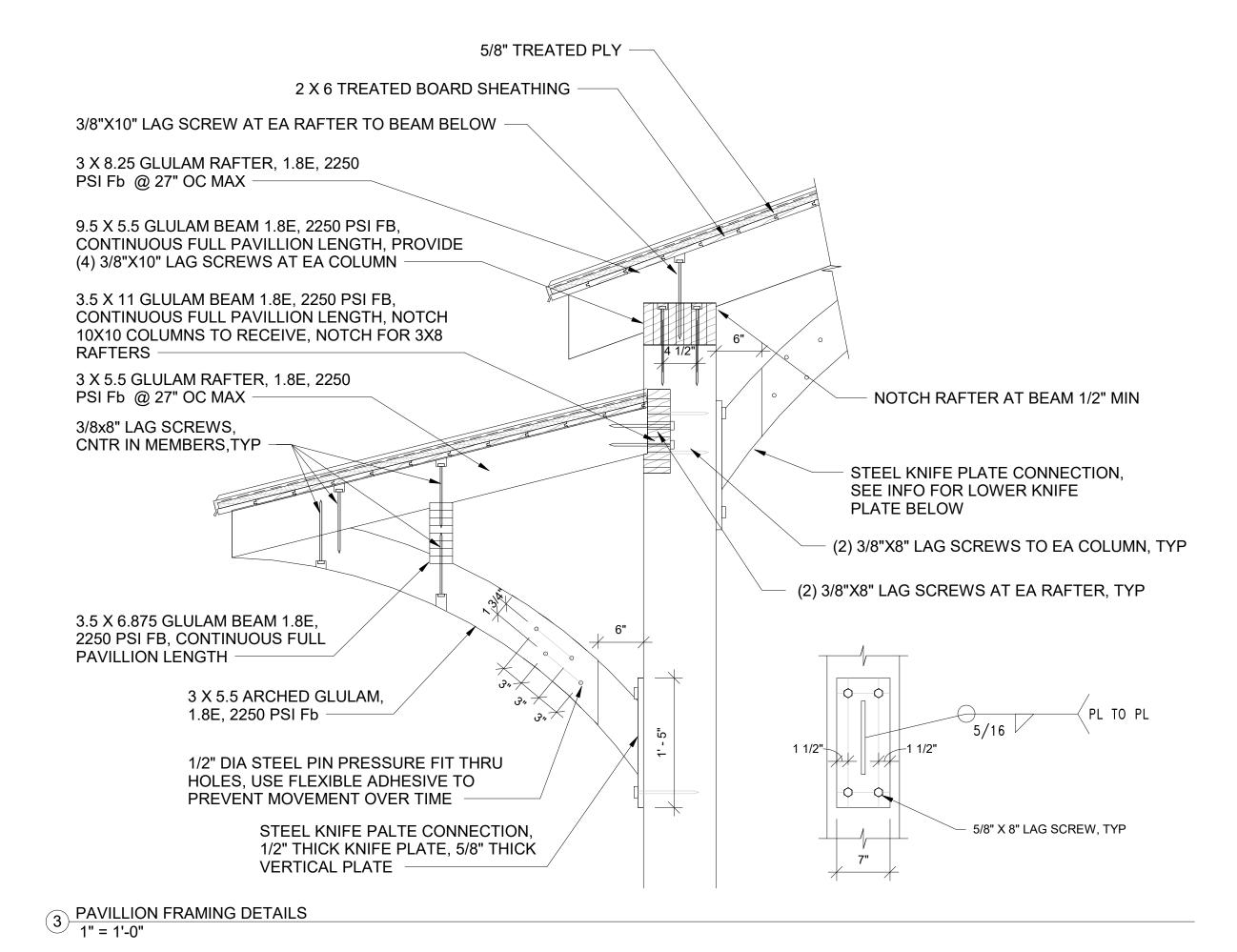
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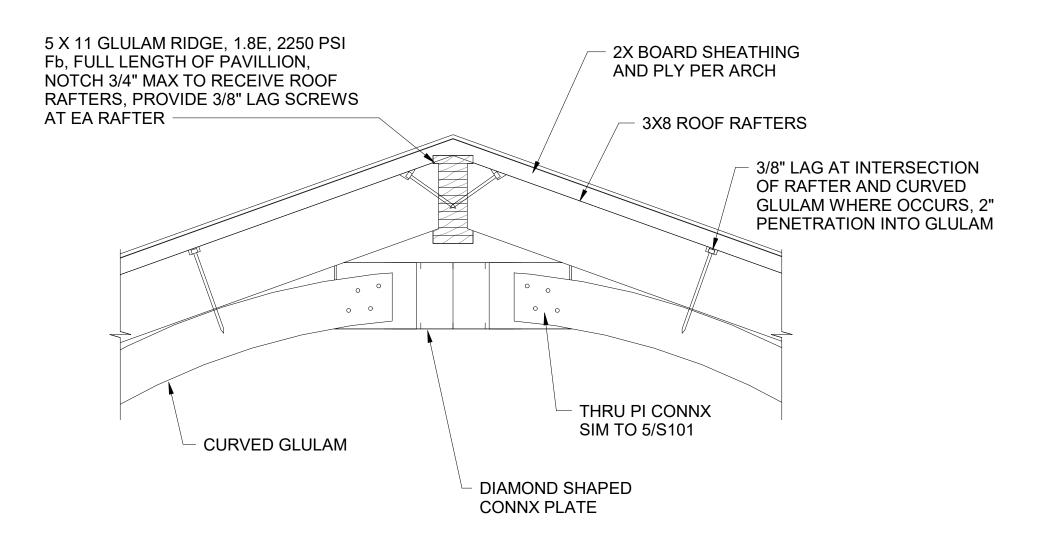
STRUCTURAL DETAILS

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Date	05.31.2024
Drawn by	СВ
Checked by	СВ

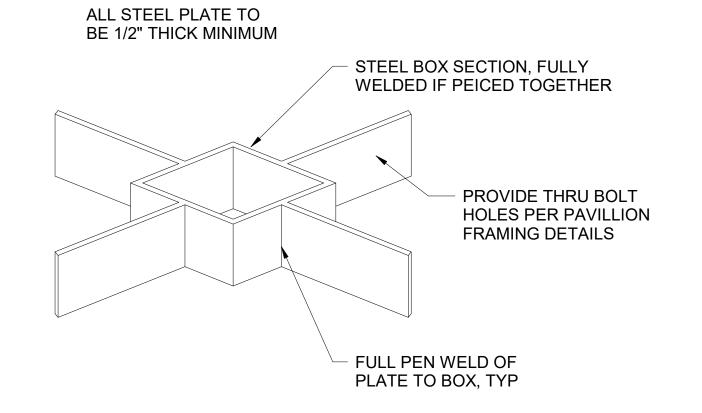
**S101** 

Scale





1" = 1'-0"

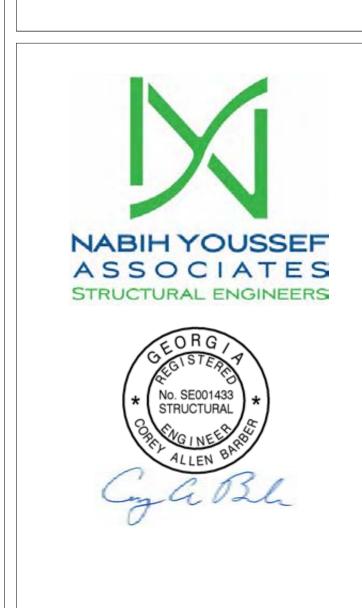


2 PAVILLION CROSS MEMBER STEEL CONNECTOR

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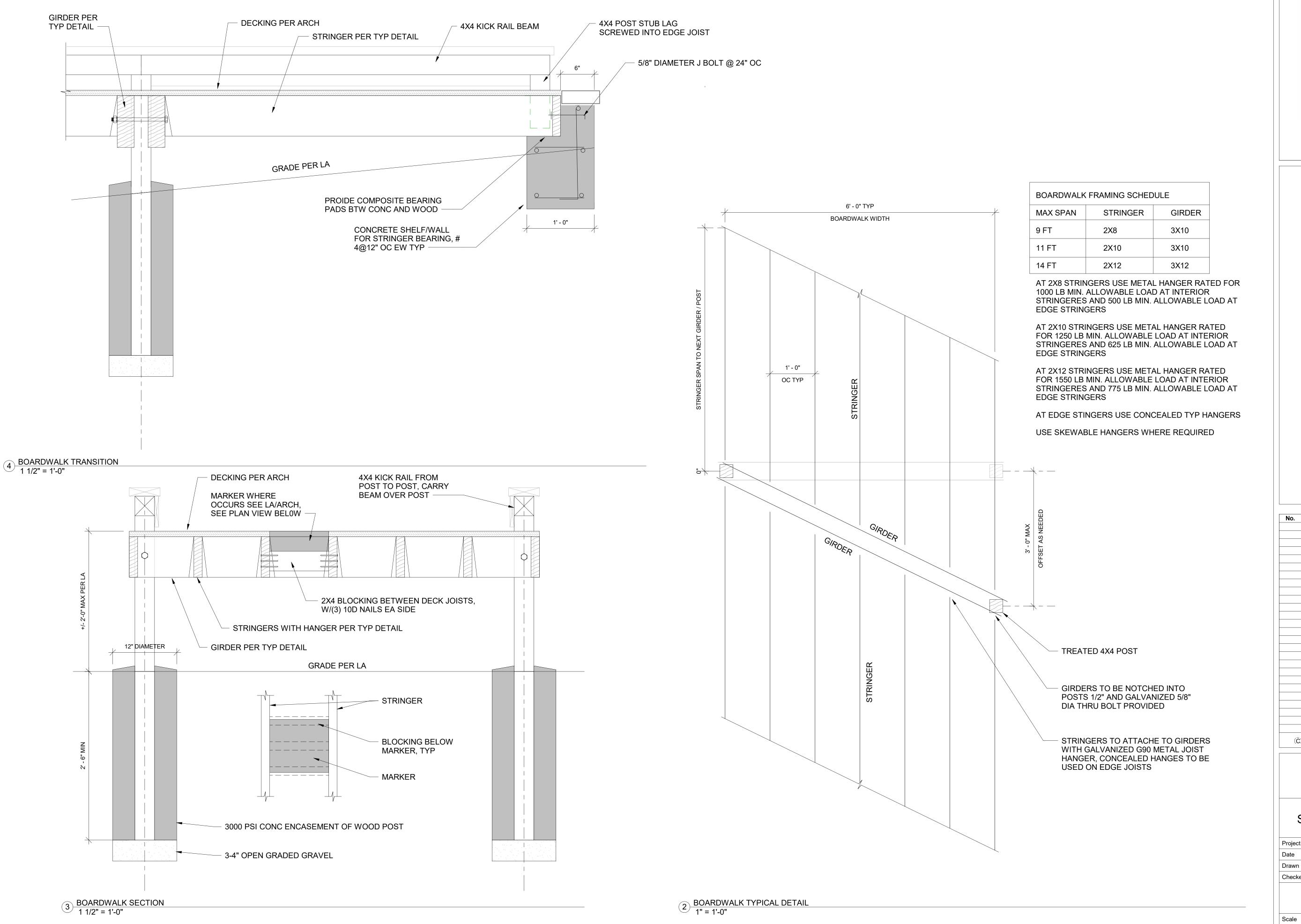
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## **MULBERRY CEMETERY**

STRUCTURAL DETAILS

22206 Project number 05.31.2024 Drawn by Checked by **S102** 

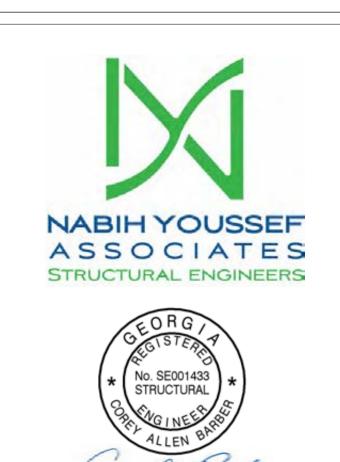
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MULBERRY CEMETERY

STRUCTURAL DETAILS

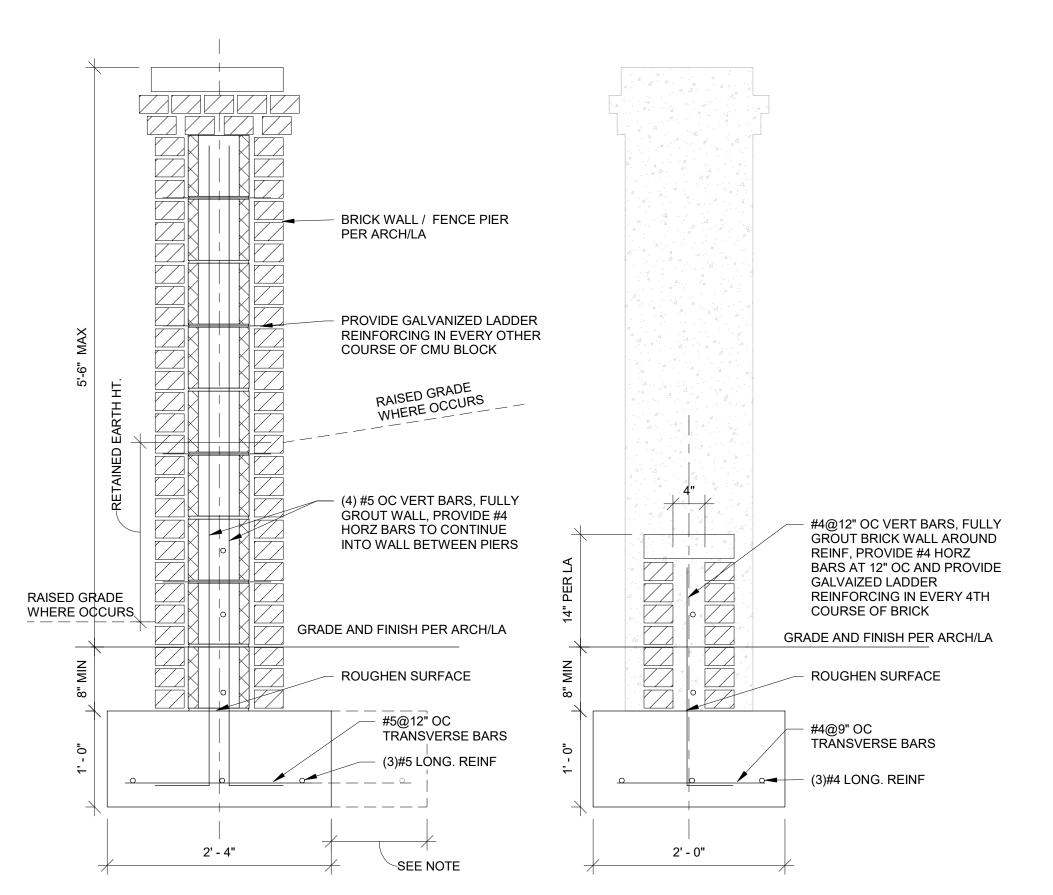
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 Date
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 Drawn by
 CB

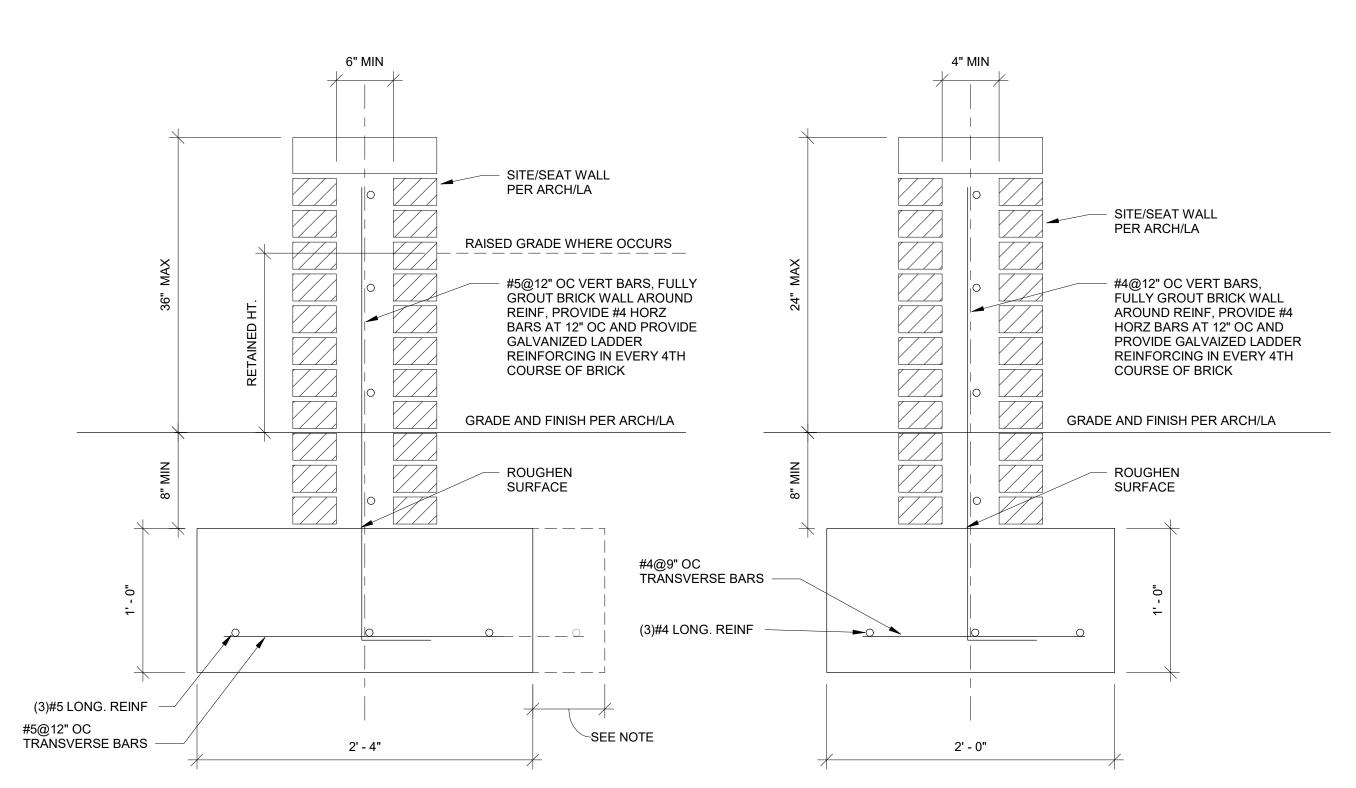
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**S103** 



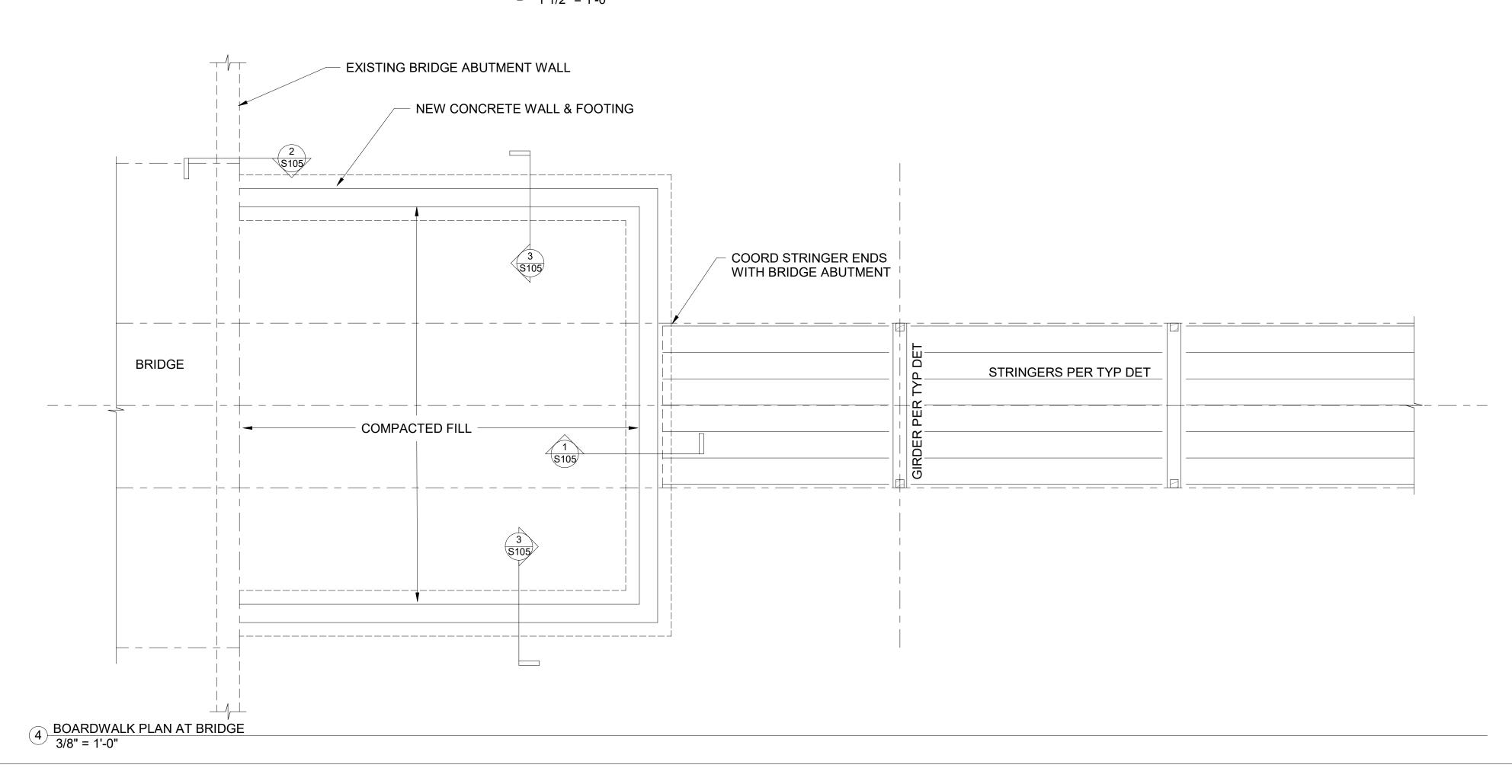
NOTE: WHEN RETAINED EARTH CONDITION OCCURS EXTEND FOOTING AMOUNT EQUAL TO 1/2 THE RETAINED HEIGHT. PER LA MAX RETAINED HEIGHT EXPECTED IS 2'-0"

3 SECTION AT BRICK WALL
1" = 1'-0"



NOTE: WHEN RETAINED EARTH CONDITION OCCURS EXTEND FOOTING AMOUNT EQUAL TO 1/2 THE RETAINED HEIGHT. PER LA MAX RETAINED HEIGHT EXPECTED IS 2'-0"

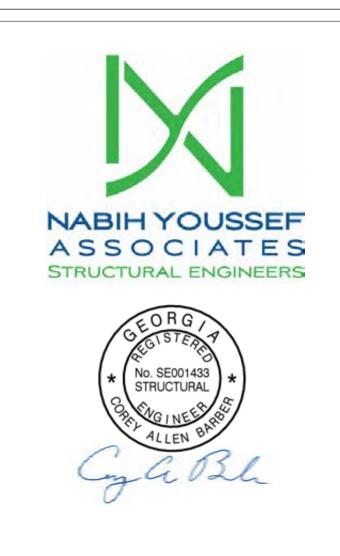
1 SECTION AT BRICK SEATWALL
1 1/2" = 1'-0"



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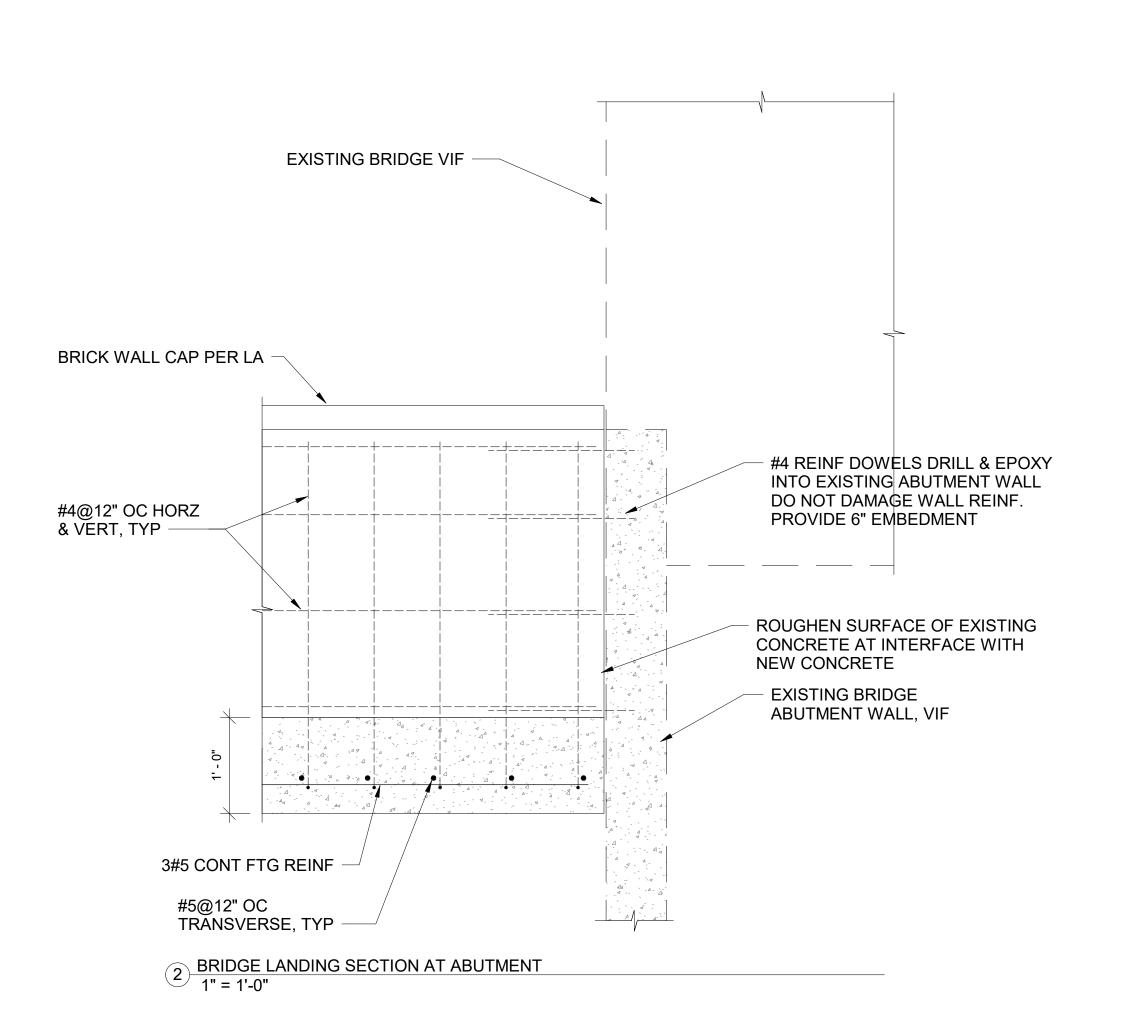
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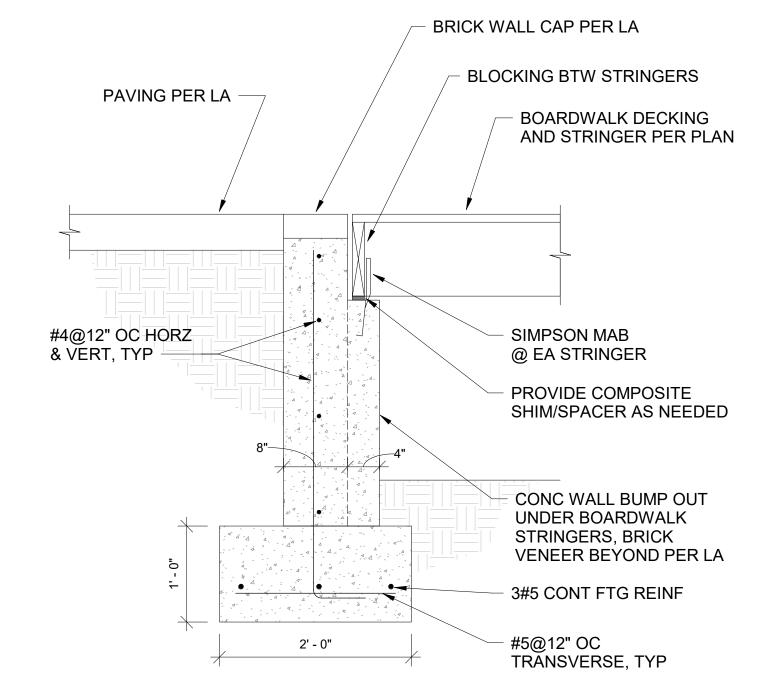
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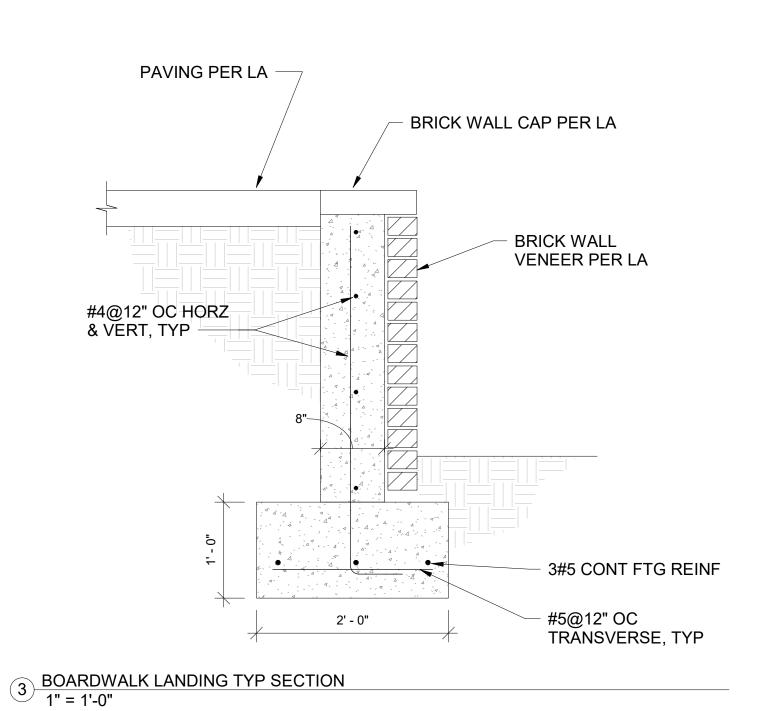
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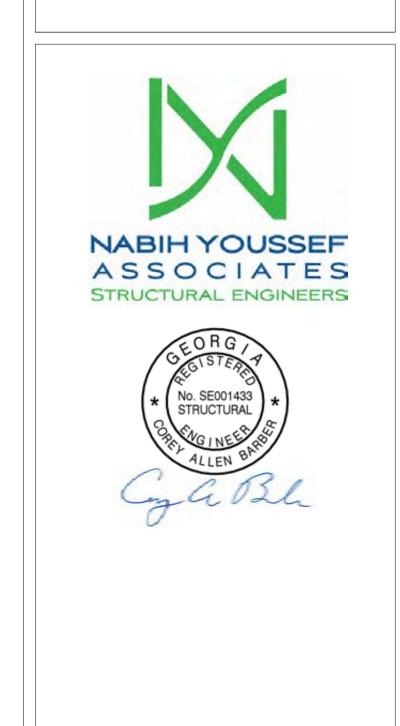
1 BOARDWAK TO BRIDGE LANDING



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## MULBERRY CEMETERY

STRUCTURAL DETAILS

0405	
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Drawn by	СВ
Date	05.31.2024
Project number	22206

**S105** 

Scale