

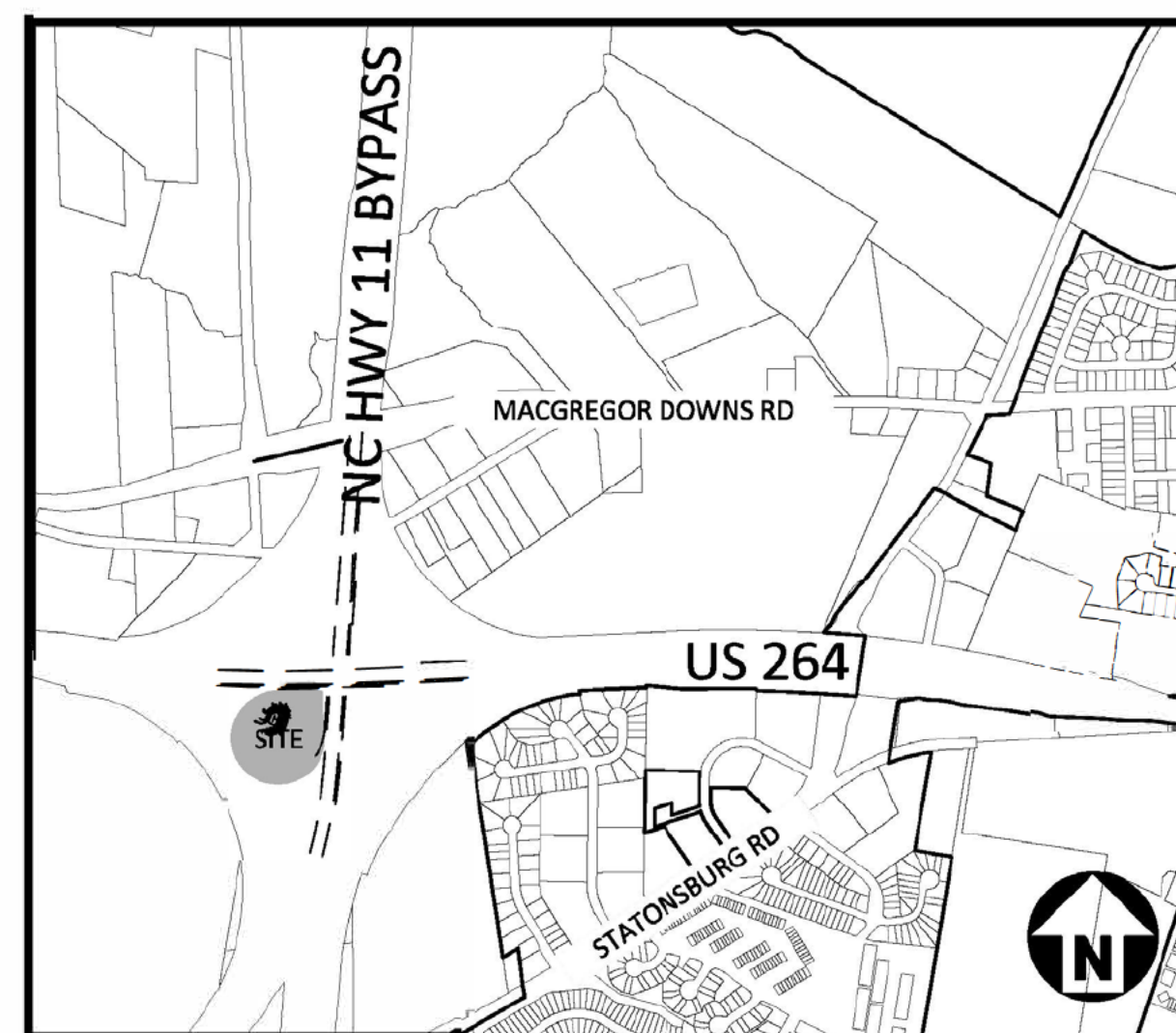
GREENVILLE SIGNAGE

GREENVILLE, NORTH CAROLINA

CONSTRUCTION DRAWINGS

PROJECT NUMBER: GVL21001

DATE: JUNE 14, 2023



VICINITY MAP
N.T.S.

SHEET INDEX

C2.00	OVERALL, SITE, GRADING, AND EXISTING CONDITIONS PLAN
C3.00	DETAILS
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NCDOT CONDITIONS:

1. INDEMNIFICATION OF THE DEPARTMENT FROM LIABILITY FOR PERSONAL INJURY AND PROPERTY DAMAGE INCLUDING HIGHWAY RELATED DAMAGE.
2. NCDOT'S RIGHT TO REMOVE ART FROM THE RIGHT OF WAY DUE TO SAFETY/MAINTENANCE CONCERNS OR CONFLICT WITH FUTURE ROAD MAINTENANCE / CONSTRUCTION AT NO COST TO DOT.
3. NCDOT RESERVES THE RIGHT TO REPRODUCE ART FOR PROMOTIONAL PURPOSES WITHOUT PAYING COMPENSATION, REGARDLESS OF COPYRIGHT STATUS.
4. NCDOT RESERVES THE RIGHT TO ALTER INFRASTRUCTURE, LANDSCAPE, AN OTHER TRANSPORTATION RELATED ELEMENTS NEAR AND ADJACENT TO THE ART WHEN REQUIRED FOR MAINTENANCE AND OPERATION OF THE TRANSPORTATION FACILITY.

GENERAL NOTES:

1. CONTRACTOR TO ADHERE THE THE REQUIREMENTS OF THE ENCROACHMENT AGREEMENT E021-074-23-00164.
2. CONTRACTOR TO SECURE THE SIGNAGE PERMIT FROM THE CITY OF GREENVILLE PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO COORDINATE ALL NECESSARY INSPECTIONS.



MCADAMS

The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CONTACT

JASON GALLOWAY
galloway@mcadamsco.com
PHONE: 919. 808. 5385

CLIENT

KEVIN MULLIGAN, PE
DIRECTOR OF PUBLIC WORKS
CITY OF GREENVILLE
200 W 5TH STREET
kmulligan@greenvillenc.gov
PHONE: 252. 329. 4522



PROJECT DIRECTORY

SIGN DESIGN
BIZZELL DESIGN INC.
PO BOX 785
BELMONT, NC 28012
PHONE: 704. 651. 3528



BIZZELLDISIGN
Civic Branding, Signage & Wayfinding Programs
City Gateway Designs, Information Kiosks
Themed Commercial Environments

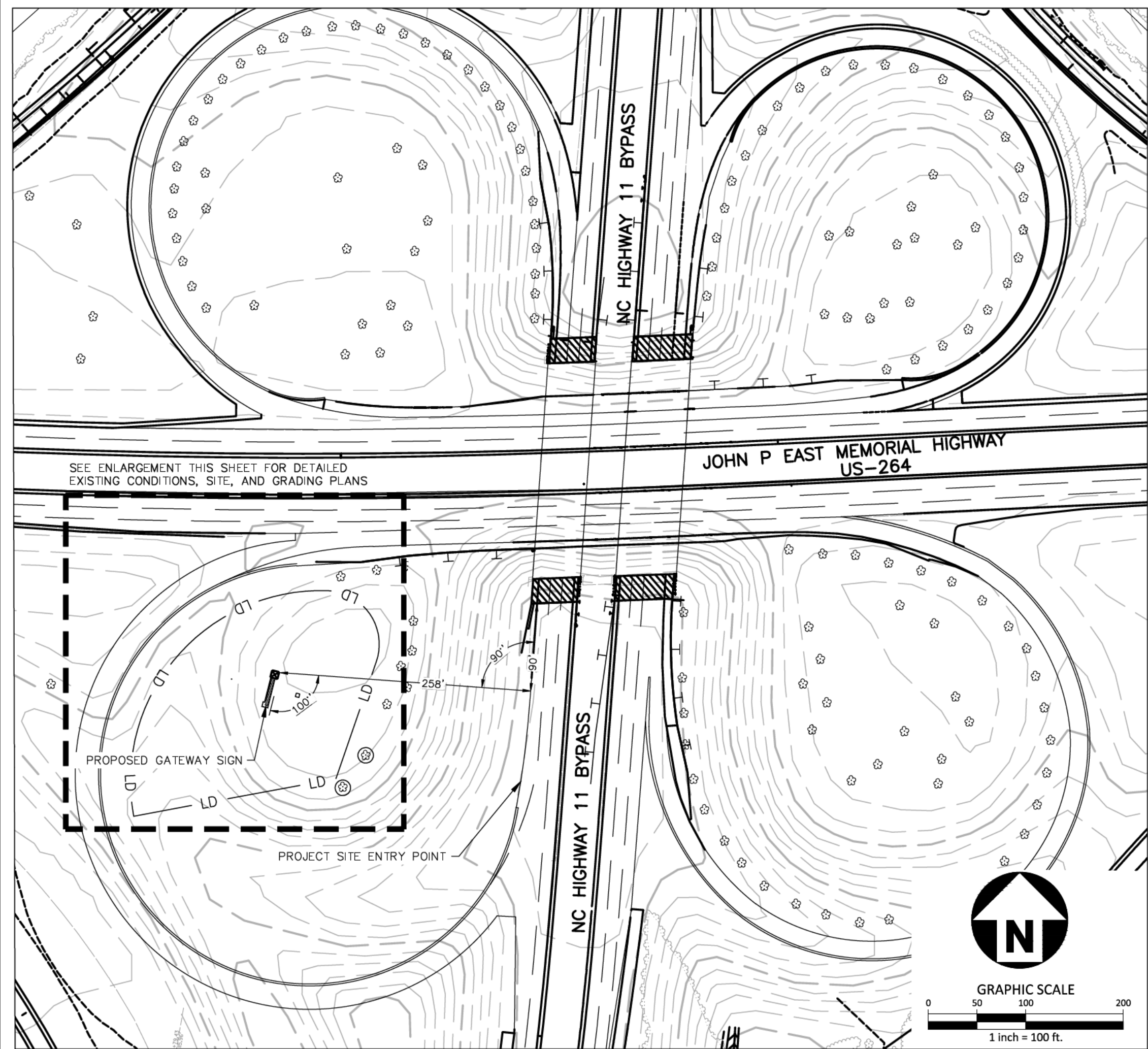


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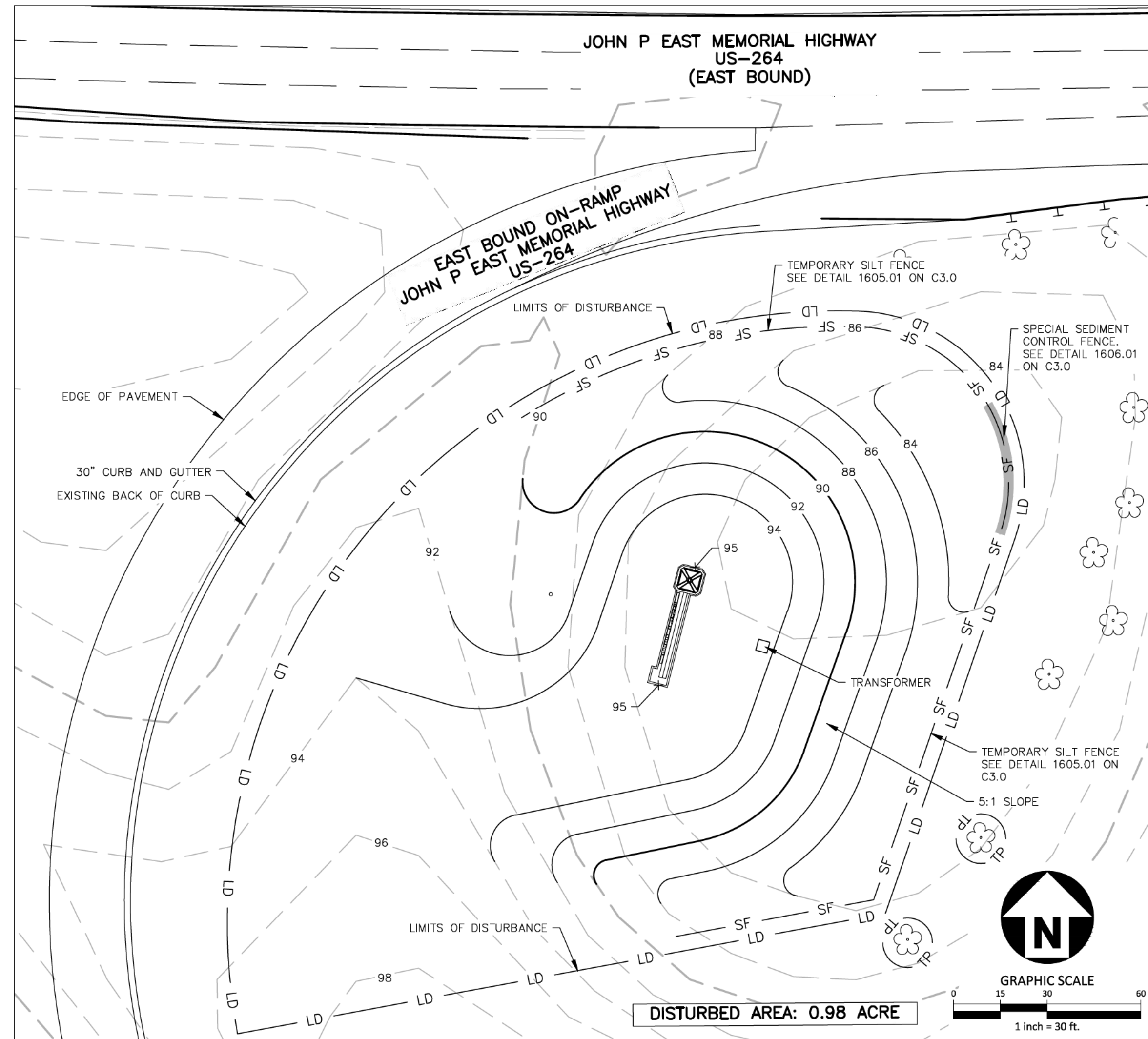
NO. DATE

CONSTRUCTION DRAWINGS FOR:

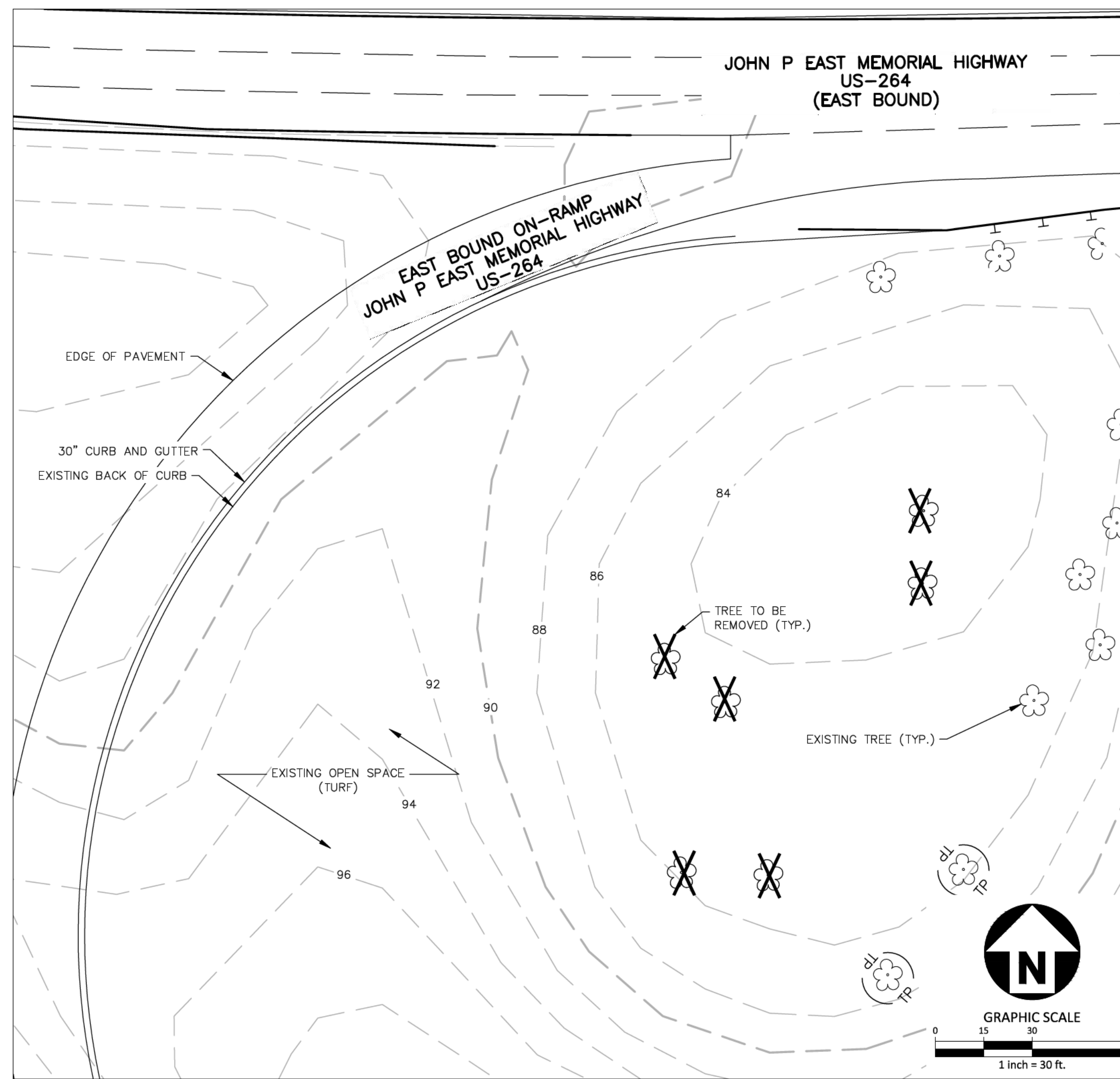
GREENVILLE SIGNAGE
GREENVILLE, NORTH CAROLINA
PROJECT NUMBER: GVL21001



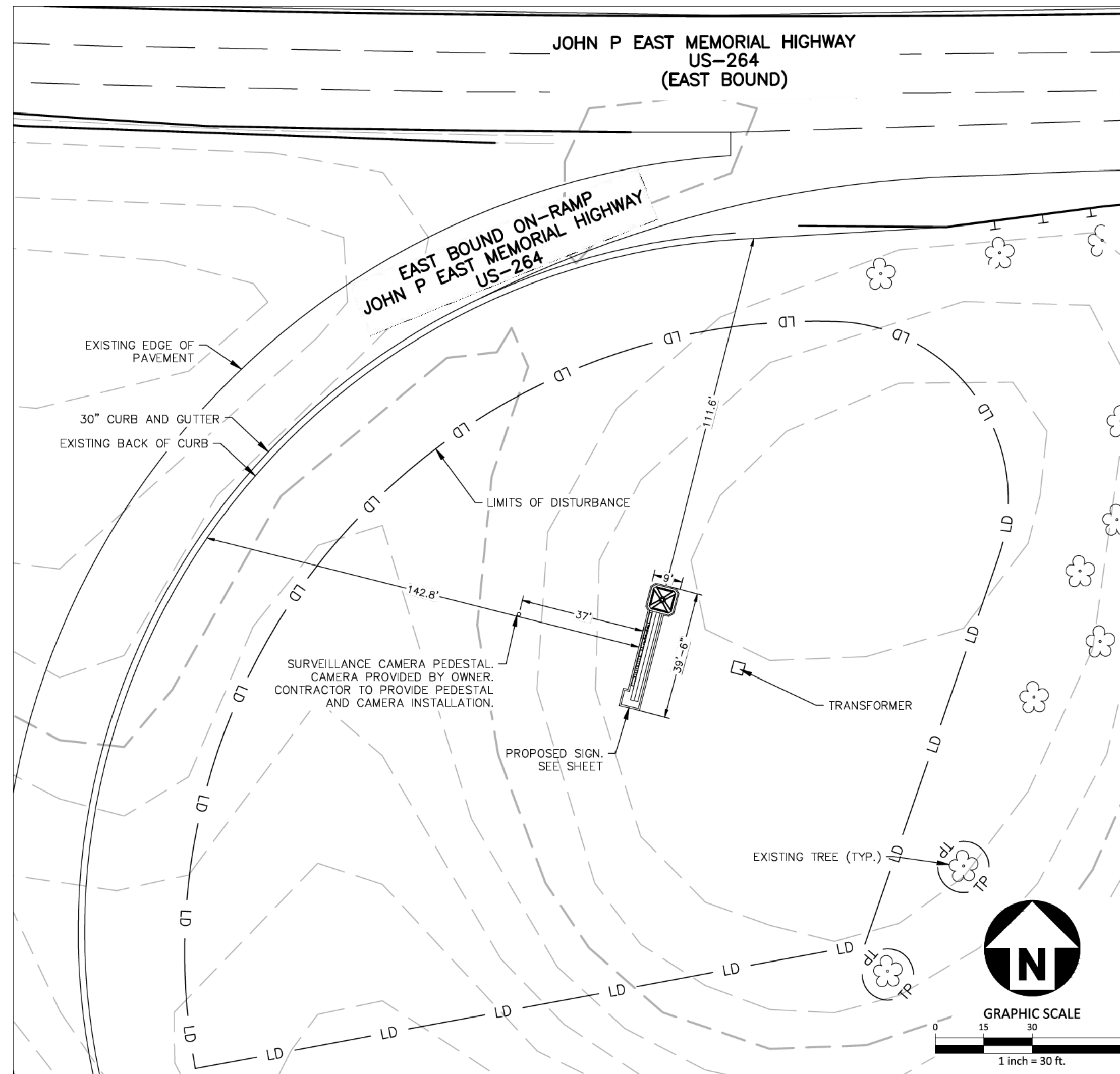
OVERALL MAP



GRADING PLAN



EXISTING CONDITIONS AND DEMOLITION PLAN



SITE PLAN

GENERAL SITE PLAN NOTES:

1. THIS CONSTRUCTION DOCUMENTS SET HAS BEEN CREATED TO ILLUSTRATE THE GENERAL DESIGN INTENT OF THE PROJECT. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REP. AND NOTIFY HIM AS ADDITIONAL INFORMATION IS NEEDED TO PROPERLY CONSTRUCT/INSTALL/BUILD ELEMENTS SHOWN HEREIN.
2. THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS TO THE EXTENT NECESSARY TO DETERMINE THE EFFECTS OF SUB-SURFACE CONDITIONS ON THE WORK AND SHALL BID AND CONSTRUCT THE WORK IN ACCORDANCE WITH HIS FINDINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES AND UNUSUAL CONDITIONS TO OWNER'S REP PRIOR TO CONSTRUCTION.
5. ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE GRASSED BY SEEDING, FERTILIZING, MULCHING, AND WATERING AS REQUIRED TO OBTAIN AN ACCEPTABLE GROUND COVER, UNLESS SPECIFIED OTHERWISE. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION INSIDE OR OUTSIDE THE LIMIT OF WORK SHALL BE REPAIRED, GRADED, AND GRASSED AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AND ALL AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.
7. CONTRACTOR SHALL RESTORE DAMAGED FINISHES AND REPLACE DAMAGED OR DEFECTIVE UNITS.
8. CONTRACTOR SHALL STAKE ALL HARDSCAPE AREAS TO BE COMPLETED AND OBTAIN APPROVAL FROM OWNER'S REP. AND/OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION. ANY WORK PERFORMED WITHOUT APPROVAL IS AT RISK FOR REPLACEMENT BY THE CONTRACTOR.
9. ALL FIELD ADJUSTMENTS SHALL RECEIVE APPROVAL FROM OWNER'S REP. PRIOR TO CONSTRUCTION.
10. TEMPORARY EROSION & SEDIMENT CONTROLS (SILT FENCES, ETC.) SHALL BE INSTALLED AT INLETS, PIPES, AND LIMITS OF WORK AREAS WHERE SURFACE RUN-OFF OCCURS UNTIL SOIL STABILIZATION IS COMPLETE.
11. CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING THE REPAIR OF EROSION AREAS UNTIL GRASS HAS REACHED THE LEVEL OF FINAL ACCEPTANCE.
12. ALL EXISTING TREES TO BE SAVED WILL HAVE TREE BARRICADES INSTALLED AROUND THEM PRIOR TO BEGINNING OF DEMOLITION. ALL WORK IN THOSE AREAS TO BE DONE BY HAND. FENCES SHALL BE MAINTAINED AND KEPT IN PLACE AT ALL TIMES.
13. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL LOCAL, STATE, AND FEDERAL AGENCIES AND REGULATIONS.
14. CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION AREAS AND ACTIVATED DURING CONSTRUCTION.
15. DIGITAL BASE FILE SHALL BE MADE AVAILABLE FOR USE IN FIELD LOCATION OF ELEMENTS AND SITE FEATURES. ANY HARDCOPY INFORMATION THAT CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REP. AND/OR LANDSCAPE ARCHITECT. HARDCOPY INFORMATION SHALL PREVAIL.
16. CONTRACTOR SHALL COORDINATE CONDUIT LOCATIONS (I.E. ELECTRICAL, ETC.)
17. NO SPECIMEN TREES FOUND ON SITE. NO SPECIMEN TREES TO BE REMOVED.

GENERAL LAYOUT NOTES:

1. ALL DIMENSIONS ARE TO EDGE OF PAVING UNLESS OTHERWISE INDICATED.
2. BASE MAP INFORMATION AND TOPOGRAPHY FROM NCDOT DESIGN DRAWINGS PROVIDED BY OWNER.

GENERAL GRADING NOTES:

1. NO DEMOLITION TO OCCUR PRIOR TO PRE-CONSTRUCTION MEETING.
2. EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO ANY WORK BEING DONE.
3. WASHED STONE AND WIRE BACKING SHALL BE USED WITH SILT FENCE WHENEVER SILT FENCE IS PLACED AT THE TOE OF A SLOPE > 10' VERTICAL OR ALONG ANY CHANNEL OR WATER COURSE WHERE 50' OF BUFFER IS NOT PROVIDED.
4. CONSTRUCTION OPERATION SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
5. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
6. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING & STRUCTURE FOUNDATIONS.
7. EXISTING SPOT ELEVATIONS TO BE FIELD VERIFIED.
8. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER, UNLESS CERTIFIED BY REGISTERED GEOTECHNICAL ENGINEER.
9. FOR SLOPES GREATER THAN 10' IN LENGTH AND PROTECTED BY SILT FENCE AT THE TOE OF THE SLOPE, SLOPE TERRACING WILL BE REQUIRED.
10. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE BEING CONSTRUCTED. SPILLWAYS SHOULD NOT BE CONSTRUCTED THROUGH FILL SECTIONS. ALL SPILLWAYS SHOULD BE LINED AND/OR RIP-RAPPED.
11. ALL DISTURBED AREAS TO BE SEED PER THE SCHEDULE ON LS.00.

GRADING NOTES

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS, FINAL RULE 29CFR PART 1926, SUBPART "PP" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
3. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
4. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD PRIOR TO ANY LAND DISTURBING ACTIVITY, AS DEEMED NECESSARY. THE OWNER, ENGINEER, CONTRACTOR, AND REPRESENTATIVES FROM NCDOT WILL BE INVITED TO ATTEND THE MEETING.
5. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TIMING OF REMOVAL SHALL BE COORDINATED WITH NCDOT AND THE OWNER REPRESENTATIVE.
6. SOIL UNDER FOUNDATIONS AND WITHIN SLOPES LESS THAN 4:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

GRADING LEGEND

	DRAINAGE FLOW ARROW
+ 250.60	SPOT ELEVATION
— TP — TP — TP	TREE PROTECTION FENCE
— LD — LD — LD	LIMITS OF DISTURBANCE
— SF — SF — SF	SILT FENCE
— SF — SF — SF	SPECIAL SILT FENCE
— 250 —	MAJOR CONTOUR
— 252 —	MINOR CONTOUR
— 250 —	EXISTING MAJOR CONTOUR
— 252 —	EXISTING MINOR CONTOUR

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC THROUGH WORK ZONES IN ACCORDANCE WITH THESE SPECIFICATIONS, THE MUTCD AND NCDOT STANDARD DRAWINGS, 23 CFR 630 SUBPARTS J AND K AND THE TRANSPORTATION MANAGEMENT PLAN (TMP) AT ALL TIMES.
2. NO STORAGE OF MATERIALS, PARKING OF VEHICLES OR DELIVERIES SHALL TAKE PLACE OUTSIDE OF THE LIMIT OF WORK.
3. ALL WORK SHALL BE CONTAINED TO THE LIMIT OF WORK AS SHOWN ON THE PLANS.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

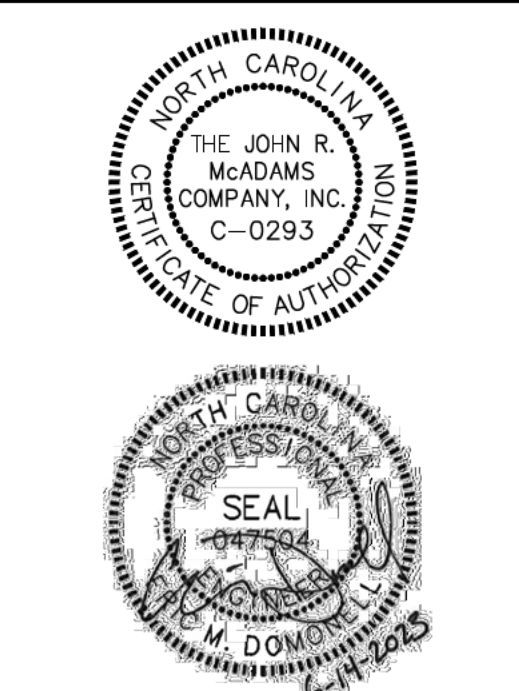


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Suite 201
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phone 919. 823. 4300
fax 919. 361. 2269
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CLIENT
CITY OF GREENVILLE
200W 5TH ST
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GREENVILLE GATEWAY SIGNAGE
GREENVILLE, NORTH CAROLINA



REVISIONS

NO.	DATE
-----	------

PLAN INFORMATION

PROJECT NO.	GVL21001
FILENAME	GVL21001-S1
CHECKED BY	EMD
DRAWN BY	JJB
SCALE	PER PLAN
DATE	06. 14. 2023

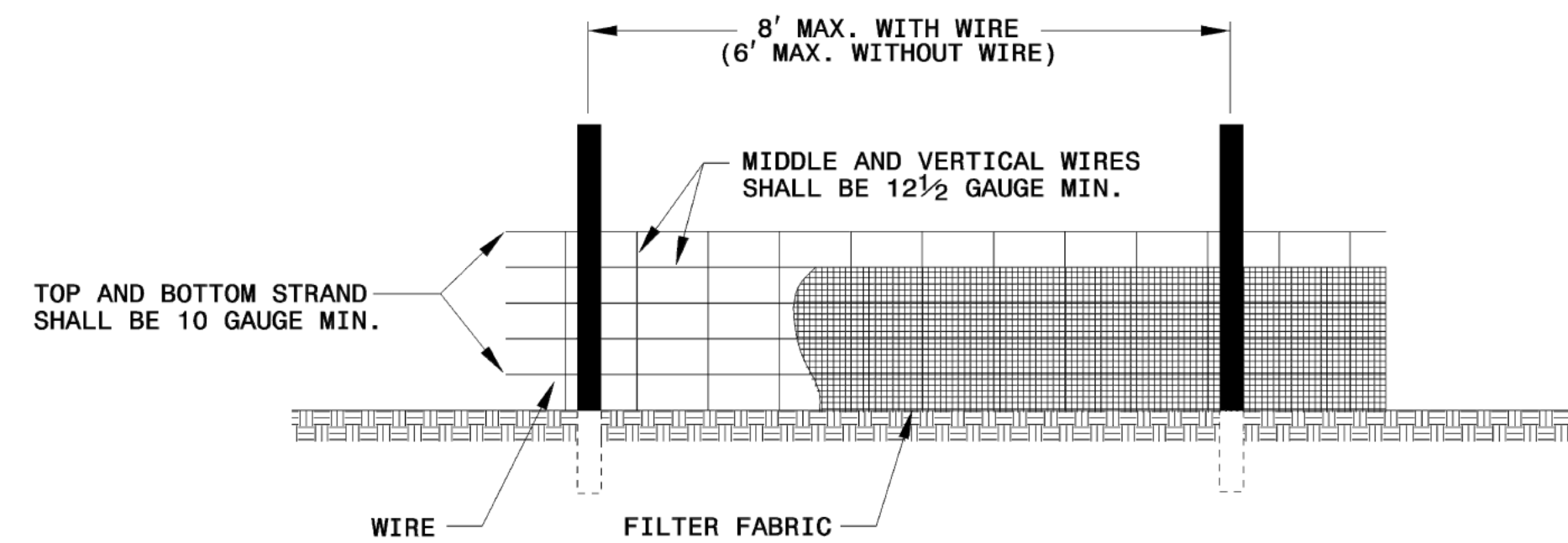
SHEET
OVERALL, SITE, GRADING AND EXISTING CONDITIONS PLANS
C2.00

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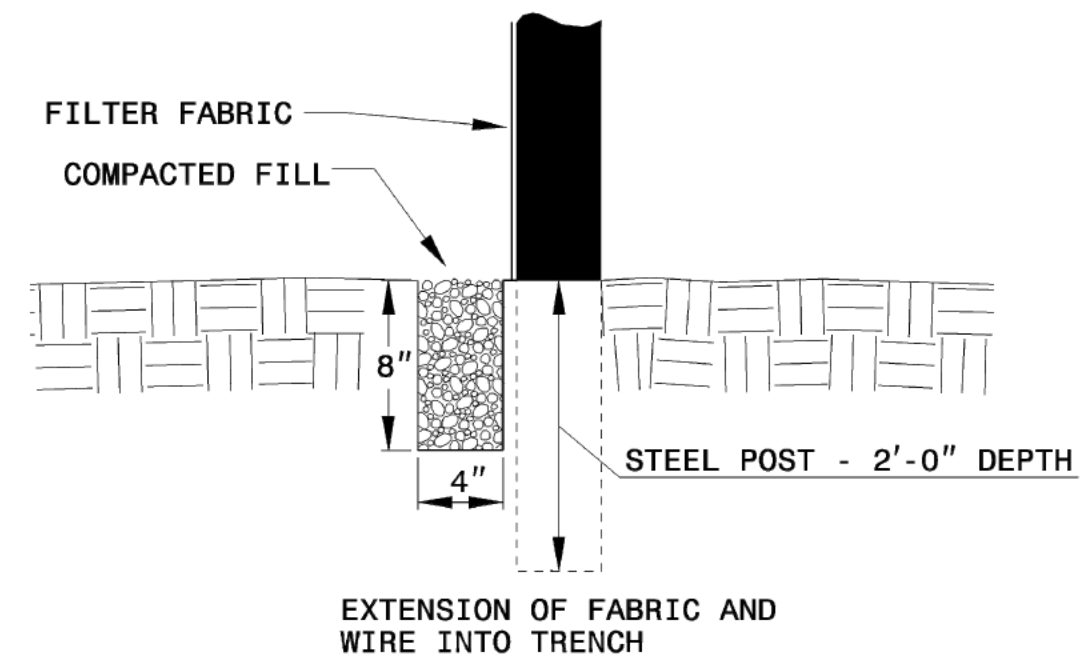
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01



NOTES
USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



7-06
STATE OF NORTH CAROLINA
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RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
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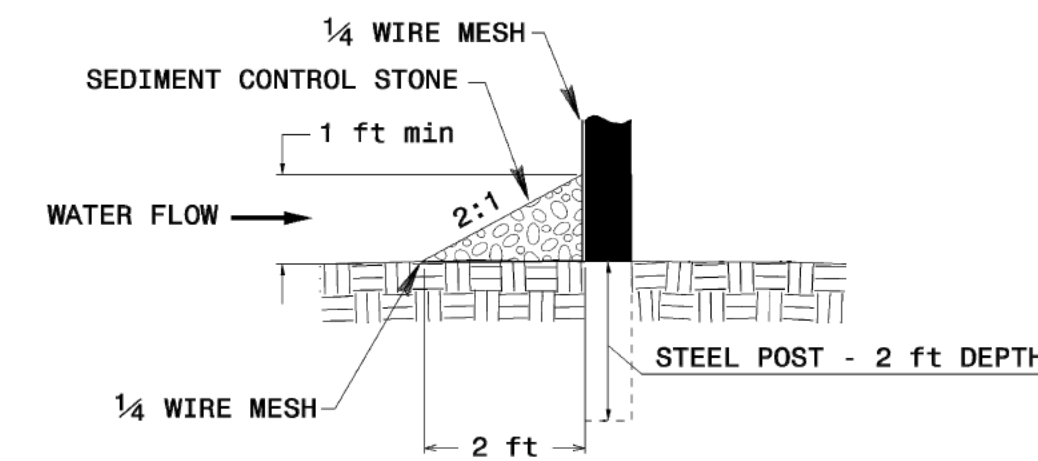
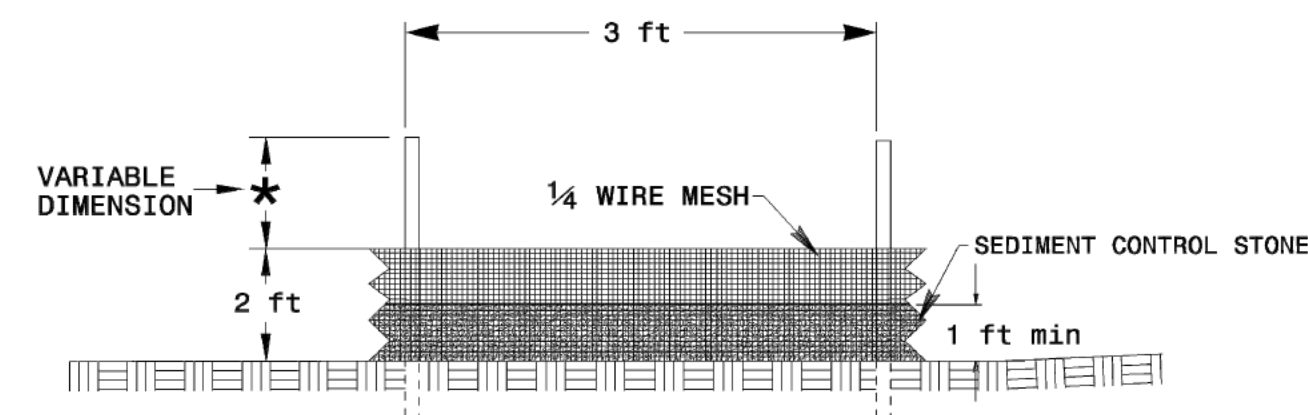
SHEET 1 OF 1
1605.01

7-06
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
SPECIAL SEDIMENT CONTROL FENCE

SHEET 1 OF 1
1606.01

GENERAL NOTES:
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.
USE HARDWARE CLOTH 24 GAUGE WIRE MESH WITH 1/4 INCH MESH OPENINGS.
INSTALL 5 FT. SELF FASTENER ANGLE STEEL POST 2 FT. DEEP MINIMUM.
SPACE POST A MAXIMUM OF 3 FT.



7-06
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
SPECIAL SEDIMENT CONTROL FENCE

SHEET 1 OF 1
1606.01



McADAMS

The John R. McAdams Company, Inc.
One Glenwood Avenue
Suite 201
Raleigh, NC 27603
phone 919. 823. 4300
fax 919. 361. 2269
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CLIENT

CITY OF GREENVILLE
200W 5TH ST
GREENVILLE, NORTH CAROLINA
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**GREENVILLE GATEWAY
SIGNAGE**
GREENVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. GVL21001
FILENAME GVL21001-S1
CHECKED BY EMD
DRAWN BY JJB
SCALE PER PLAN
DATE 06. 14. 2023

SHEET

DETAILS

C3.00

NC DOT SEEDING SPECIFICATION STABILIZATION REQUIREMENTS:
(1-11-2016)
Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective April 1, 2019 issued by the North Carolina Department of Environmental Quality Division of Water Resources. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity:
Slopes between 2:1 and 3:1, with a slope length of 10 ft. or less
Slopes 3:1 or flatter, with a slope length of 50 ft. or less
Slopes 4:1 or flatter
The stabilization timeframe for High Quality Water (HQW) Zones shall be 7 calendar days with no exceptions for slope grades or lengths. High Quality Water Zones (HQW) Zones are defined by North Carolina Administrative Code 15A-NCAC 04A.0105 (2). Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

SEEDING AND MULCHING: (East)
The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.
All Roadway Areas
March 1 - August 31 September 1 - February 28

50# Tall Fescue	50# Tall Fescue
10# Centipede	10# Centipede
25# Bermudagrass (hulled)	35# Bermudagrass (unhulled)
500# Fertilizer	500# Fertilizer
4000# Limestone	4000# Limestone

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 pounds per acre and add 20# of Service Limestone from January 1 - December 31.
Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

TEMPORARY SEEDING:
Fertilizer shall be the same analysis as specified for Seeding and Mulching and applied at the rate of 400 pounds and seeded at the rate of 50 pounds per acre. Sweet Sudan Grass, German Millet or Browntop Millet shall be used in summer months and Rye Grain during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

FERTILIZER TOPDRESSING:
Fertilizer used for topdressing on all roadway areas except slopes 2:1 and steeper shall be 10-20-20 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 10-20-20 analysis and as directed.
Fertilizer used for topdressing on slopes 2:1 and steeper and waste and borrow areas shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 2-1-1 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis and as directed.

SUPPLEMENTAL SEEDING:
The kinds of seed and proportions shall be the same as specified for Seeding and Mulching, with the exception that no centipede seed will be used in the seed mix for supplemental seeding. The rate of application for supplemental seeding may vary from 25# to 75# per acre. The actual rate per acre will be determined prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre, total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a sod seeder shall be used for incorporating seed into the soil as to prevent disturbance of existing vegetation. A clodbuster (ball and chain) may be used where degree of slope prevents the use of a sod seeder.

MOWING:
The minimum mowing height on this project shall be 4 inches.

- NOTES:**
1. SIGN IS TO BE ROTATED 15° CLOCKWISE FROM THE EXISTING EDGE OF PAVEMENT.
 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC THROUGH WORK ZONES IN ACCORDANCE WITH THESE SPECIFICATIONS, THE MUTCD AND NC DOT STANDARD DRAWINGS, 23 CFR 630 SUBPARTS J AND K AND THE TRANSPORTATION MANAGEMENT PLAN (TMP) AT ALL TIMES.
 3. NO STORAGE OF MATERIALS, PARKING OF VEHICLES OR DELIVERIES SHALL TAKE PLACE OUTSIDE OF THE LIMIT OF WORK.
 4. ALL WORK SHALL BE CONTAINED TO THE LIMIT OF WORK AS SHOWN ON THE PLANS.

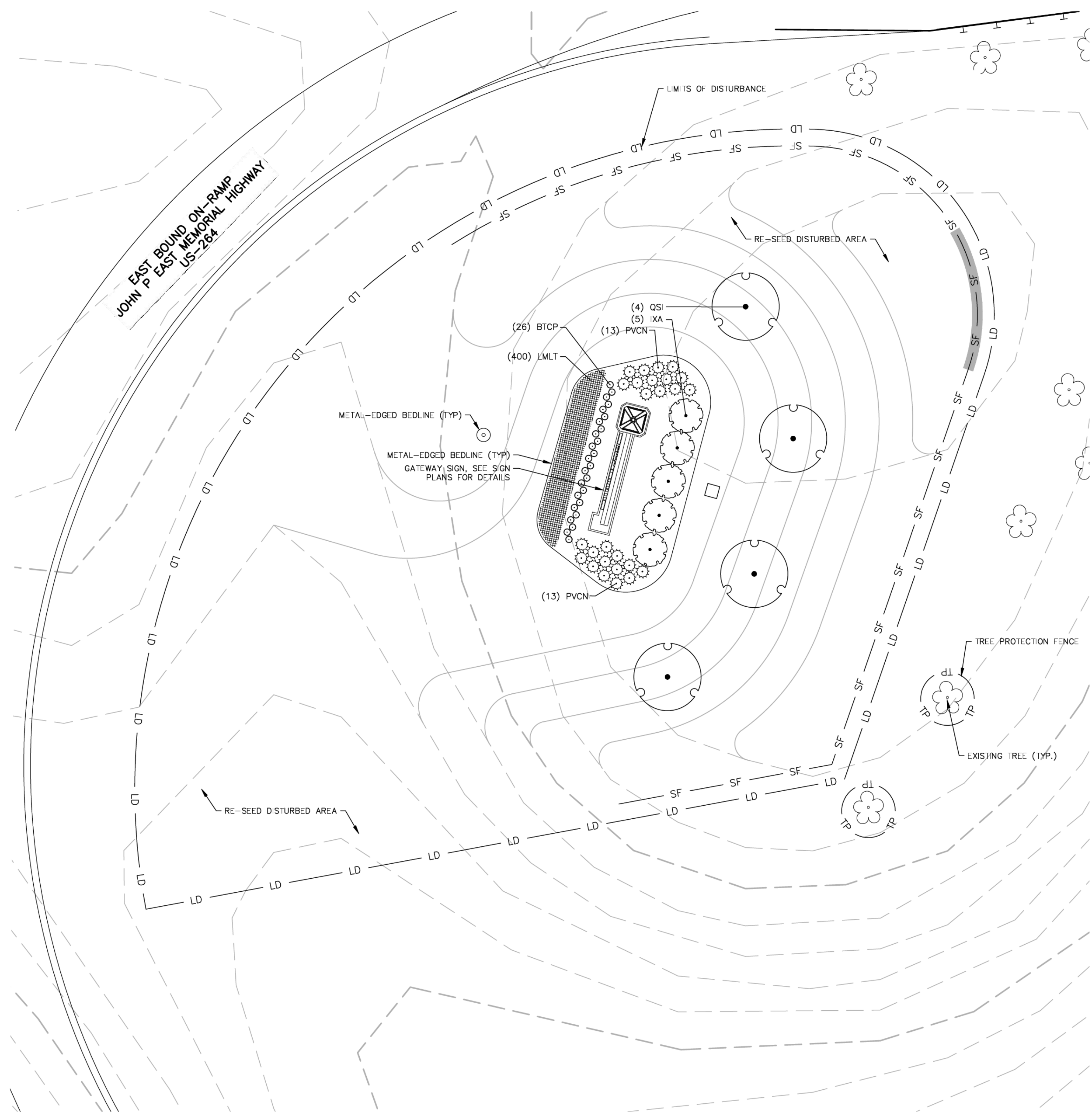
PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CAL	
	IXA	5	Ilex x attenuata 'Fosteri' Foster's Holly	3" min	
	QSI	4	Quercus shumardii Shumard Oak	3" min	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	HEIGHT	
	BTCP	26	Berberis thunbergii 'Crimson Pymy' Crimson Pymy Japanese Barberry	12" min	
	PVCN	26	Panicum virgatum 'Cloud Nine' Cloud Nine Switch Grass	15 gal	
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
	LMLT	399	Liriope muscari Lilyturf	Flat	12" o.c.
	DOTM	38,984 sf	NC DOT stabilization seed mix See NC DOT Specifications	Seed	

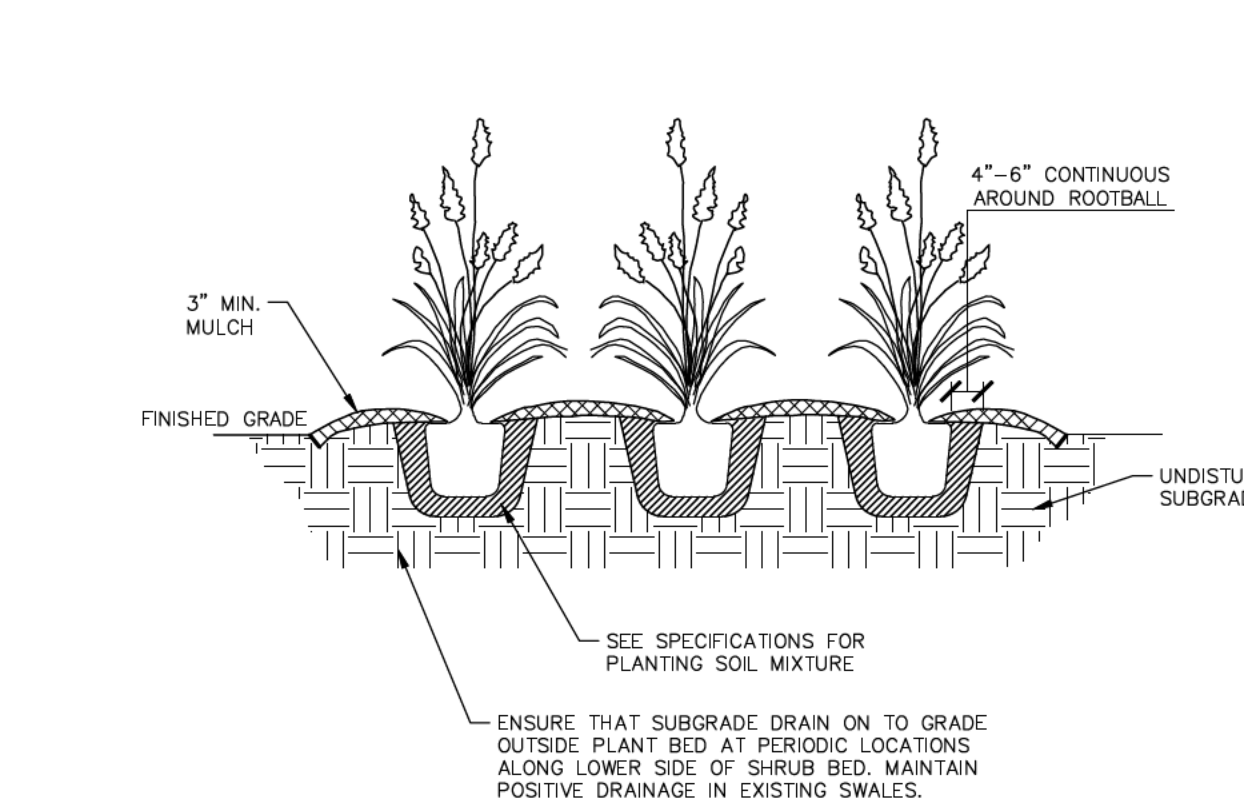
GENERAL LANDSCAPE NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF GREENVILLE AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR INSTALLATION.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
5. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING STRUCTURES, GRADING, ETC., REFER TO STRUCTURAL, SITE AND GRADING PLANS.
7. VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
8. CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
11. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
12. ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
13. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS.
14. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.

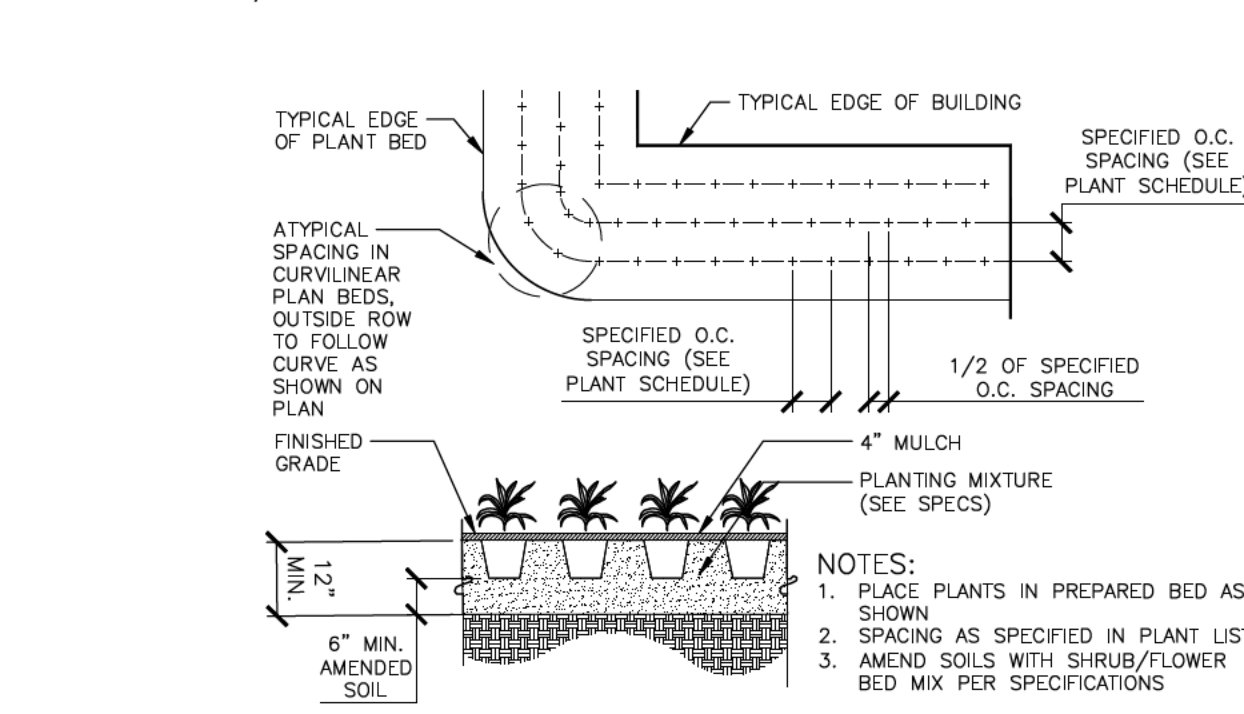
15. CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS.
16. TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CRIBS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH OR OTHER EXTRANEOUS MATERIAL.
17. LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD PLANTING MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NURSERY SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
18. IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE SOIL PROFILES.
19. PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD.
20. ALL TREE PLANTINGS SHALL BE MULCHED TO A DEPTH OF 3 INCHES, AND WITH A MINIMUM 3 FOOT RADIUS FROM BASE OF TREE OR TO DRIPLINE. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
21. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
22. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
23. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.
24. EXCAVATE EDGES OF ALL PLANTING BEDS TO 2 INCH DEPTH TO FORM A NEAT AND CRISP DEFINITION.
25. CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
26. REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
27. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORM FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 0.2 INCH OF FINISH ELEVATION. ROLL AND RAKE. REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADINGS TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.



01 TREE INSTALLATION
SCALE: 3/8"=1'-0"



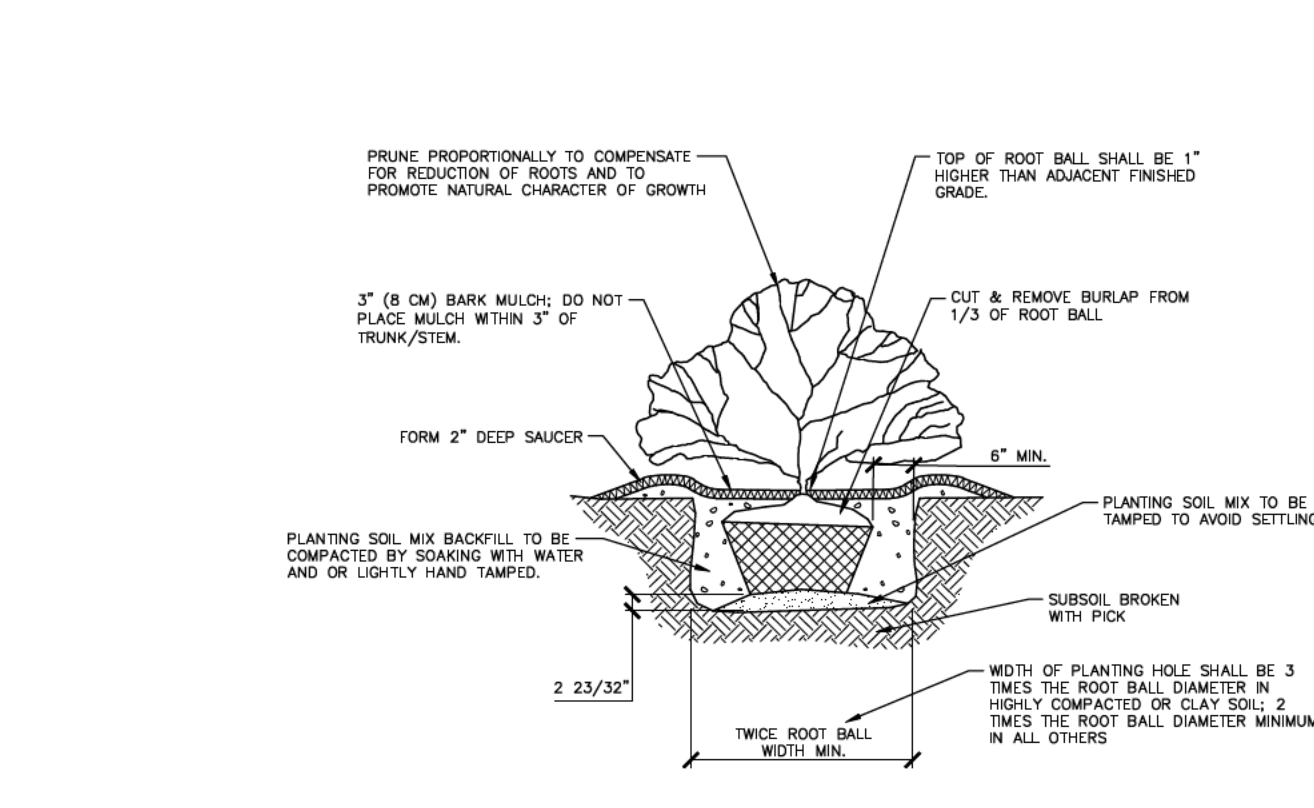
03 ORNAMENTAL GRASS PLANTING
SCALE: 1/2"=1'-0"



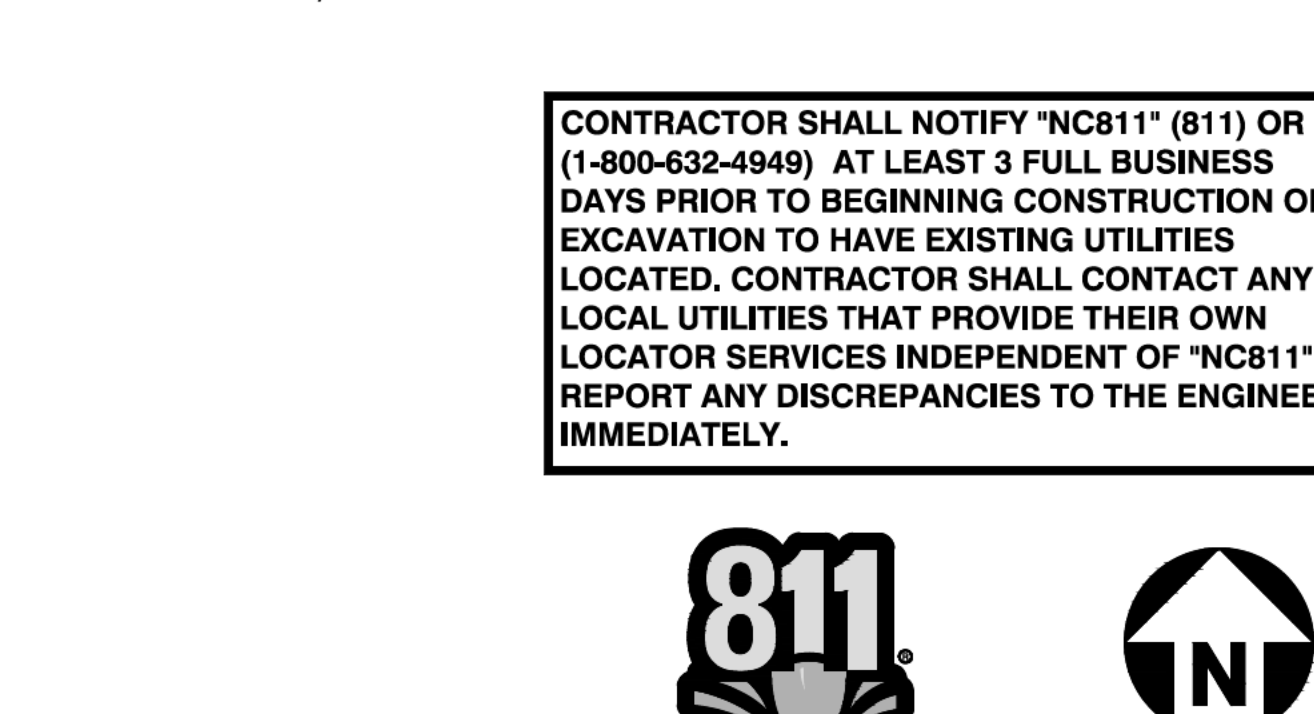
05 GROUND COVER PLANTING
SCALE: 3/8"=1'-0"



02 EVERGREEN TREE INSTALLATION
SCALE: 3/8"=1'-0"



04 SHRUB INSTALLATION
SCALE: 3/8"=1'-0"



CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

811
Know what's below.
Call before you dig.

GRAPHIC SCALE
1 inch = 20 ft.

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713
phone 919.361.5000
fax 919.361.2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT
CITY OF GREENVILLE
2007 5TH ST
GREENVILLE, NORTH CAROLINA
PHONE: 252.329.4521

Greenville
NORTH CAROLINA

GREENVILLE GATEWAY SIGNAGE
GREENVILLE, NORTH CAROLINA

THE JOHN R. McADAMS COMPANY, INC.
C-0293
NORTH CAROLINA PROFESSIONAL ENGINEER
716
KRON & GALLOP

REVISIONS
NO. DATE

PLAN INFORMATION
PROJECT NO. GVL21001
FILENAME GVL21001-L51
CHECKED BY JBG
DRAWN BY JJB
SCALE 1"=20'
DATE 12.07.2022
SHEET

LANDSCAPE PLAN AND NOTES
L5.00

M:\Projects\GVL\GVL21001\04-Production\Engineering\GVL21001-L51.dwg, 6/17/2023 4:19:26 PM, Justin Baughner



MCADAMS

The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CLIENT

CITY OF GREENVILLE
200W 5TH ST
GREENVILLE, NORTH CAROLINA
PHONE: 252. 329. 4521



GREENVILLE GATEWAY
SIGNAGE
GREENVILLE NORTH CAROLINA

QUOTE # SQ150995 GREENVILLE MONUMENT SIGN Date: 6/26/2023 11:13 AM



ORLANDO

222 W Maitland Blvd
Maitland FL 32751
P 407-629-6100 | F: 407-629-6213

If there is a problem with a SESCO product that you specified or we supplied, we will fix it... PERIOD

To: **MCADAMS** Job/Project Name: **GREENVILLE MONUMENT SIGN**
2905 MERIDIAN PARKWAY
DURHAM NC 27713

Contractor: Bid Date: Location:

Specifiers: Contact Name: Type:

Remarks:

Qty	Type	Mfg	Part # / Description	Price
1	ETCELE	7180A1361	MSC1 MOSAIC SHOW CONTROLLER 1	
1	ETCELE	7180A1371	MSC-OPTO MOSAIC OPTO SPLITTER. DMX/RDM OPTO-SPLITTER WITH 4 OUTPUT PORTS	
1	ETCELE	7180A1300	MSC-PS MOSAIC 48V DIN RAIL MOUNT POWER SUPPLY	
1	ETCELE		LOT PRICE	
1	TAGTHE	SESNEMAAAL	ETC CONTROLS (INTERCONNECTIVITY BY OTHER)	
1			SESNEMAAAL NEMA 4 ENCLOSURE 24"X30"X12" ALUMINUM. HINGED DOOR WITH LOCKING HANDLE. PFANNENBERG A/C, HEATER, GFIC RECEPTICAL, THERMOSTAT, (1) 120VAC CIRCUIT BREAKERS, MAINS AND DMX SURGE SUPPRESSION (4 DMX-1 MAINS), GROUND BAR AND NEUTRAL BAR. POWER SUPPLY AS NEEDED. WITH ABOVE INSTALLED ETL UL 508A LISTED. PLEASE CONFIRM VOLTAGE 120V OR 277.	
1	SLSL		FIELD SERVICE PROGRAMMING SERVICE	
SUBTOTAL				
1	SLSL	IBR600C	CRADLE POINT WIFI CELL MODEM	
2	SLSL		ANTENNA CELLULAR ANTENNA	
1	SLSL		FIELD SERVICE PROGRAMMING SERVICE	
SUBTOTAL				
1	SLSL		PHAROS CLOUD SERVICE 1 YEAR SUBSCRIPTION TO PHAROS CLOUD	
1	SLSL		FIELD SERVICE PROGRAMMING SERVICE	
NOTE DATA PLAN WILL BE PROVIDED BY CITY OF GREENVILLE				
SUBTOTAL				
NOTE INTERCONNECTIVITY BY OTHER				
NOTE ANY CHANGES TO BOM WILL REQUIRE A NEW QUOTE				

Page: 1 of 2

QUOTE # SQ150995 GREENVILLE MONUMENT SIGN Date: 6/26/2023 11:13 AM

Qty	Type	Mfg	Part # / Description	Price
TOTAL:				

- NOTES:
- > CAT-5 CABLES ARE NOT INCLUDED
 - > RJ45 CONNECTORS/TERMINATIONS ARE NOT INCLUDED
 - > INSTALLATION IS NOT INCLUDED
 - > GROUND FREIGHT IS NOT INCLUDED
 - > CONTROL IS INCLUDED WITH THIS BOM
 - > PROGRAMMING IS INCLUDED WITH THIS BOM
 - > ADDRESSING OF FIXTURES HAS NOT BEEN INCL W THIS BOM

Prices Firm for Entry By: 30 Days Lead Time: Varies by Mfg
Printed By: Avery, Matthew Email: mavery@sescolighting.com Date: 6/26/2023

- > Price per BOM only
- > Complete quote must be used; no partials
- > Spare material, allowances, dimmers and sales tax NOT included unless noted
- > Prices include standard finishes only unless noted
- > Lamps are not included unless noted (This does not apply to fixtures with internal LED diodes)
- > Pole wind load calculations do not include structural base engineering
- > Project may include SESCO start-up services which consist of programming, testing, end user training and system configuration back up. These services are required for manufacturers warranty. To ensure this warranty, SESCO start-up costs are non-refundable
- > All warranties as per manufacturers terms
- > All shipments FOB origin
- > Deposits may be required as noted at time of breakdown
- > Quotation valid 30 days
- > Hold for Release orders do not secure project pricing but may be required for factory drawings
- > Additional costs will be charged to ship the Anchor Bolts and Template out ahead of time

NOTE:
LIGHTING CONTROLS SHALL BE THE COMPONENTS ABOVE OR APPROVED EQUAL.

CONTRACTOR TO CONTACT CHRIS RAY WITH SESCO LIGHTING AT (252) 341-4024, CRAY@SESCOLIGHTING.COM, FOR FINAL PRICING, DESIGN, AND COORDINATION OF SESCO COMPONENTS. CONTRACTOR TO COORDINATE TRAINING WITH SESCO REPRESENTATIVE AND CITY STAFF AT THE COMPLETION OF THE PROJECT.

REVISIONS

NO. DATE

PLAN INFORMATION

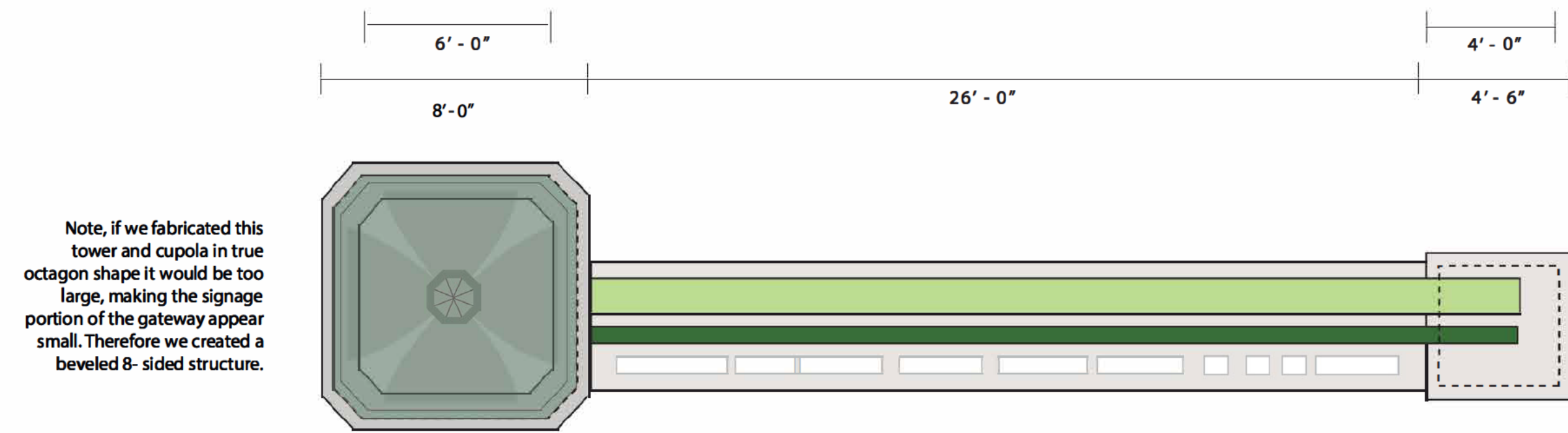
PROJECT NO. GVL21001
FILENAME GVL21001-LS1

DATE 06. 14. 2023

SHEET

LIGHTING

LI-1



Note, if we fabricated this tower and cupola in true octagon shape it would be too large, making the signage portion of the gateway appear small. Therefore we created a beveled 8-sided structure.

Right Side View



General Fabrication Notes:

The entire tower structure is fabricated using 1/8" aluminum sheeting on frame structure for all vertical surfaces. Horizontal surfaces will require 1/4" thick aluminum sheeting for load bearing purposes. The aluminum frame system requires 4" x 4" aluminum sq. tubing. All joints are welded and ground smooth. Aluminum sheeting is welded to the frame from the inside of the cabinets.

Based on the plan, the entire structure is shop fabricated as 8- separate components that assemble on site and stack as a final unit. Access doors will be placed in the back side of the unit to allow room for assembly and maintenance.

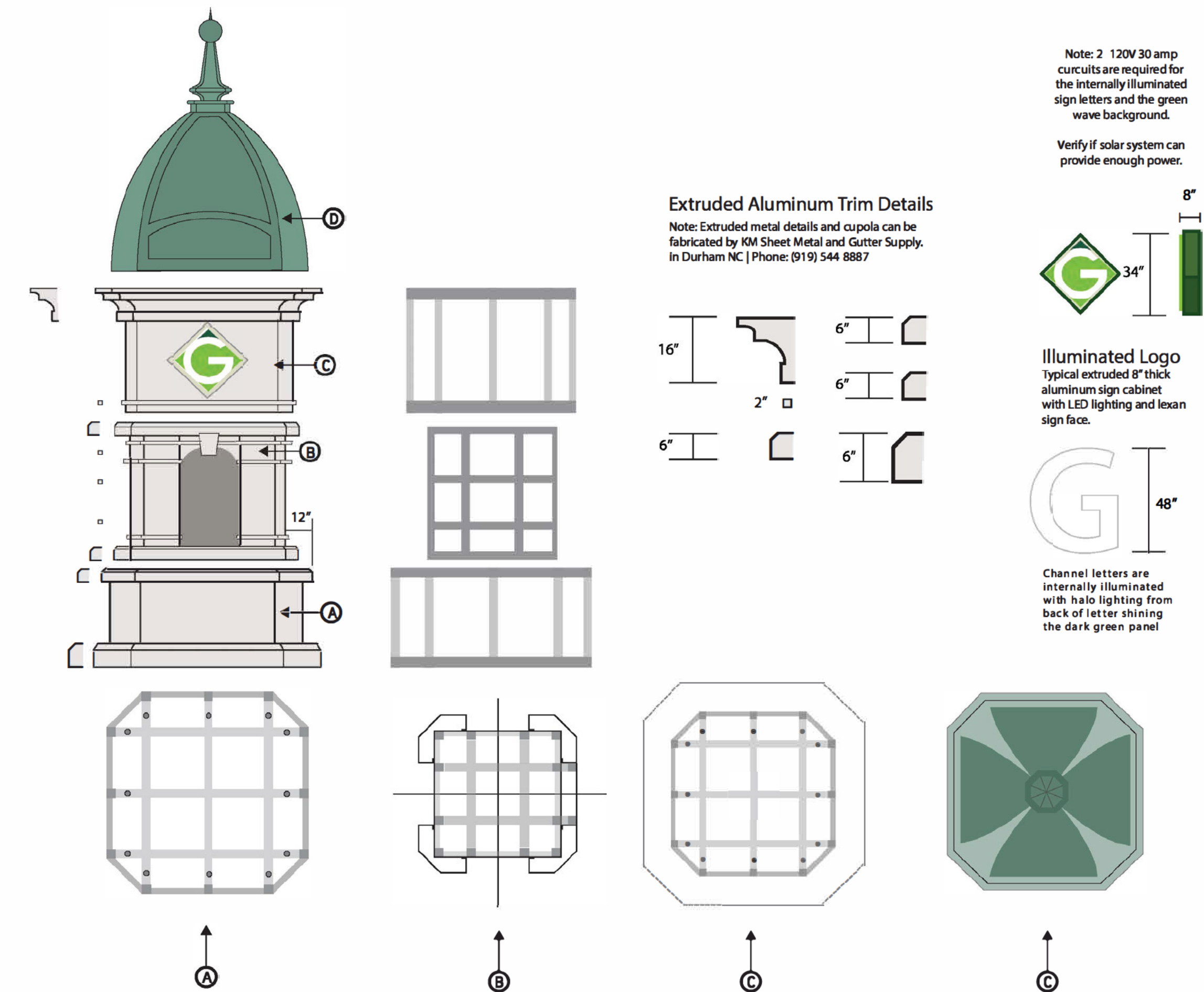
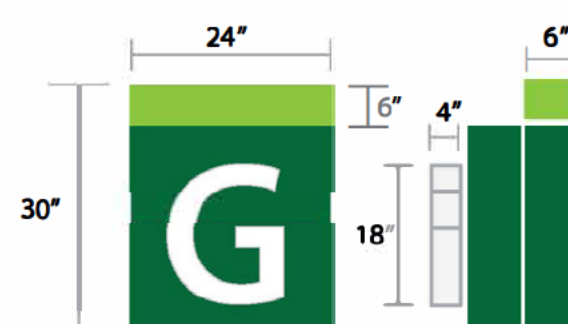
All letters custom fabricated internally illuminated aluminum channel letters with color changing LED lighting system and RGB controllers. All wiring, transformers and controllers will be hidden inside the sign cabinet. The large "Greenville" channel letters have an illuminated faced and halo lighting back. The return thickness is 10". They are stem mounted to the sign base and reinforced with mounting studs into the green backdrop panel.

The sign backdrop panels are self supporting fabricated 1/8" aluminum cabinets built in three sections. The lighted, curved accent is fabricated like a channel letter with green translucent sign face.

Before final fabrication - the sign company will be required to provide the town of Greenville a fabricated - lighted test panel showing the changeable LED lighting and the curved accent top panel. Detailed fabrication shop drawings, showing final structural supports, colors, controller and lighting locations, and access panels shall be provided for review prior to fabrication.

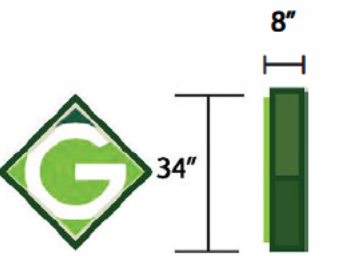
Ensure that condensate line from controller cabinet is routed to the exterior of the back of the sign and is flush with surrounding grade.

FABRICATOR TO PROVIDE ACCESS DOOR FOR LIGHTING AND ELECTRICAL COMPONENTS TO BE HOUSED INTERNAL TO THE SIGN.



Extruded Aluminum Trim Details
Note: Extruded metal details and cupola can be fabricated by KM Sheet Metal and Cutter Supply. In Durham NC | Phone: (919) 544-8887

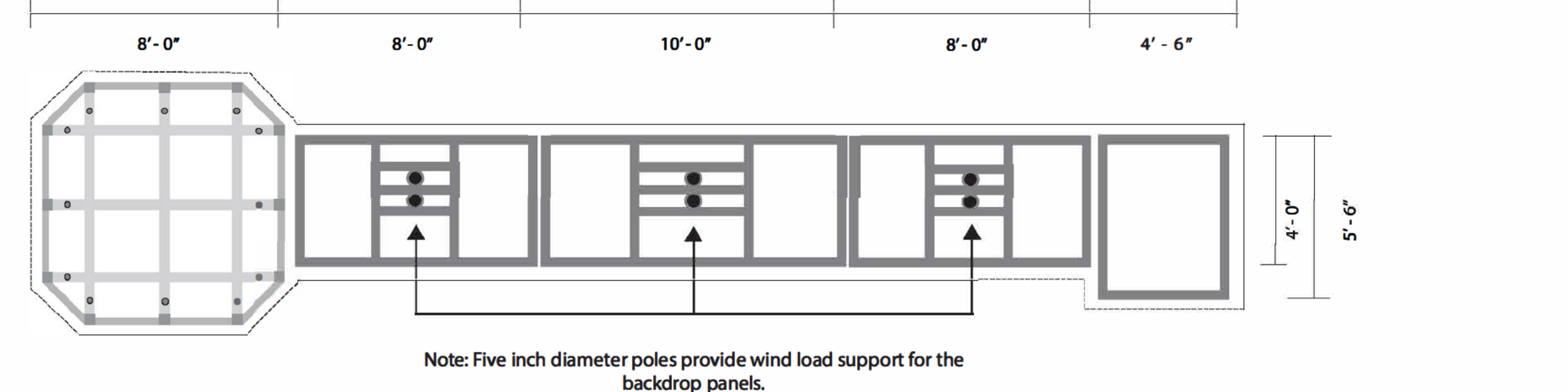
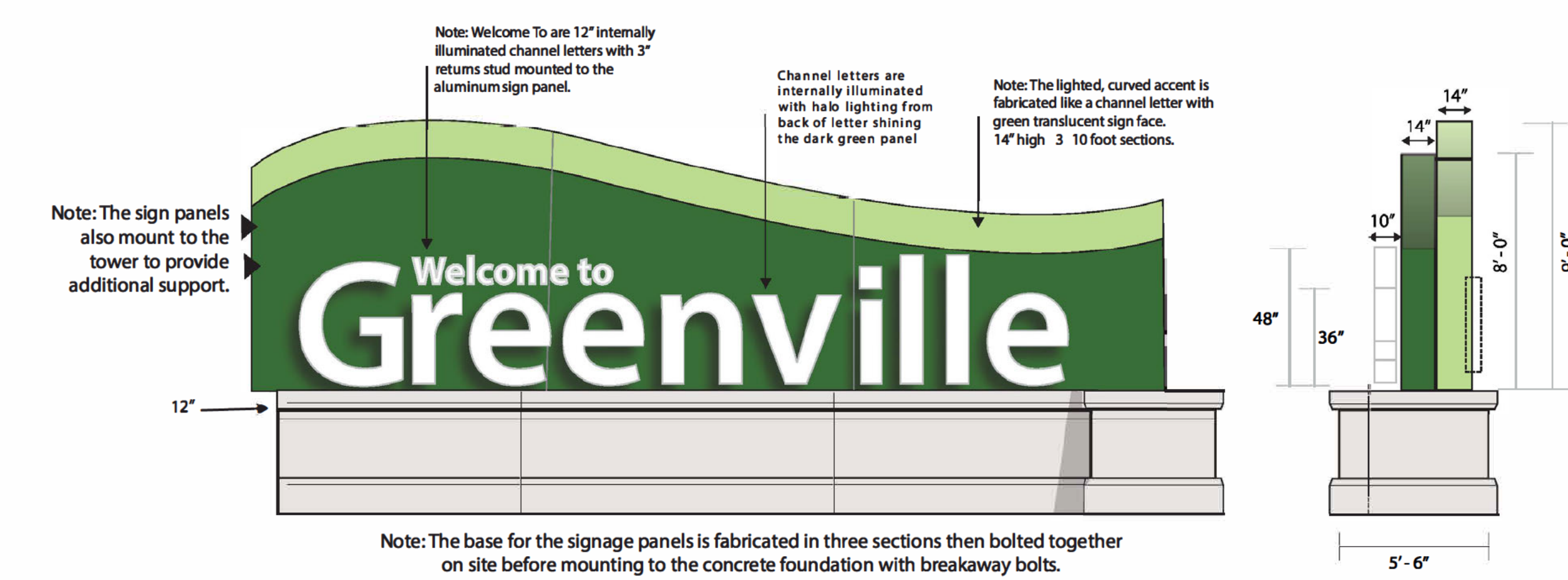
Note: 2 120V 30 amp circuits are required for the internally illuminated sign letters and the green wave background.
Verify if solar system can provide enough power.



Illuminated Logo
Typical extruded 8" thick aluminum sign cabinet with LED lighting and lexan sign face.



Channel letters are internally illuminated with halo lighting from back of letter shining the dark green panel



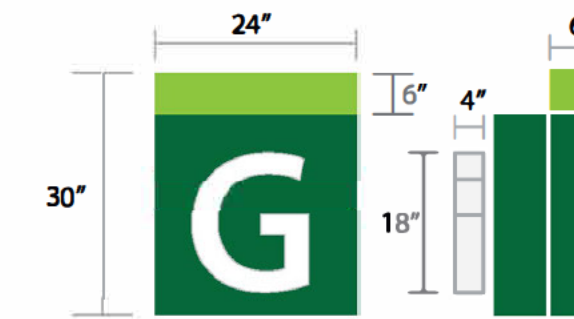
10" x 10" 1/2" thick baseplate is welded to the 2" aluminum support poles. BCI will supply full size templates for mounting breakaway bolts into the wet concrete foundation.

The Dene Breakaway Bolt® was introduced in the fall of 1995 as a breakaway bolt for sign supports. The reduced section of the bolt provides reliable and predictable impact performance, but yet provide the strength to resist the wind load on most sign sizes. This reduced bolt section lead to the bolt being tested and approved as fully compliant with NCHRP Report 350, including the Omni-directional criteria in October 1996.



SHEET A1.01

Note: Color Changing LED Lighting System is Provided by GlowBack.
A prototype will be required for approval.



GlowbackLED Sales Order

Bluegate Inc
1173 NW 158th Drive
Miami Gardens, FL 33158-5807
305-658-8391 | 1-800-678-4902
Sales@bluegateinc.com
www.glowbackledstore.com

Order Number: 007911
Order Date: 3/23/23
Salesperson: Jordan Korman
Customer No: 181482211
Customer Email: jordan.korman@gmail.com

Ship To:
Bizzell Design Inc.
Bizzell Design Inc.
PO Box 785
Belmont, NC 28012
Carlisle, NC

Customer P.O.	Ship Via	F.O.B.	Terms	Price	Amount
PKGS			NET 30		
CUSTOMPANEL	EACH	1	0	2,302.00	2,302.00
Custom LED Panel				Top Green Strip (60" x 45.833" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,189.00	2,189.00
Custom LED Panel				Top Green Strip (60" x 39.167" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 35.500" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,189.00	2,189.00
Custom LED Panel				Top Green Strip (60" x 31.833" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 28.167" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 24.500" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,189.00	2,189.00
Custom LED Panel				Top Green Strip (60" x 20.833" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 17.167" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 13.500" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 9.833" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 6.167" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	
CUSTOMPANEL	EACH	1	0	2,160.00	2,160.00
Custom LED Panel				Top Green Strip (60" x 2.500" x 8.00") [24VDC] Color Changing + White 8000K (R9000) 70 Wires	

Continued

GlowbackLED Sales Order

Bluegate Inc
1173 NW 158th Drive
Miami Gardens, FL 33158-5807
305-658-8391 | 1-800-678-4902
Sales@bluegateinc.com
www.glowbackledstore.com

Order Number: 007911
Order Date: 3/23/23
Salesperson: Jordan Korman
Customer No: 181482211
Customer Email: jordan.korman@gmail.com

Ship To:
Bizzell Design Inc.
Bizzell Design Inc.
PO Box 785
Belmont, NC 28012
Carlisle, NC

Customer P.O.	Ship Via	F.O.B.	Terms	Price	Amount
PKGS			NET 30		
CUSTOMPANEL	EACH	1	0	1,266.00	1,266.00
Custom LED Panel				1 Layer LED Panel Layer for Size 18.833" Thick [24VDC] Color Changing + White 8000K (R9000)	
CUSTOMPANEL	EACH	1	0	265.00	265.00
Custom LED Panel				Layer 1 Green LED Panel Layer for Size 18.833" Thick [24VDC] Color Changing + White 8000K (R9000)	
CUSTOMPANEL	EACH	1	0	185.00	185.00
Custom LED Panel				Layer 2 White LED Panel Layer for Size 18.833" Thick [24VDC] Color Changing + White 8000K (R9000)	
CUSTOMPANEL	EACH	1	0	47.50	47.50
Custom LED Panel				Layer 3 Blue LED Panel Layer for Size 18.833" Thick [24VDC] Color Changing + White 8000K (R9000)	
CUSTOMPANEL	EACH	1	0	1,266.00	1,266.00
Custom LED Panel				1 Layer LED Panel Layer for Size 18.833" Thick [24VDC] Color Changing + White 8000K (R9000)	
8021-66-26800F	EACH	15	0	1,185.00	1,185.00
8021-66-26800F Power Supply 5 Channel				24V 50W LED Driver / DMX Decode All in One	
PROGRAM	EACH	1	0	60.00	60.00
Program				Pre-Configured LED Driver / DMX Decode Setup for Plug and Play	
STICKER	EACH	1	0	99.00	99.00
Sticker				18x18x3mm Sticker	
PROGRAM	EACH	1	0	100.00	100.00
Program				Pre-Configured LED Driver / DMX Decode Setup for Plug and Play	

Continued

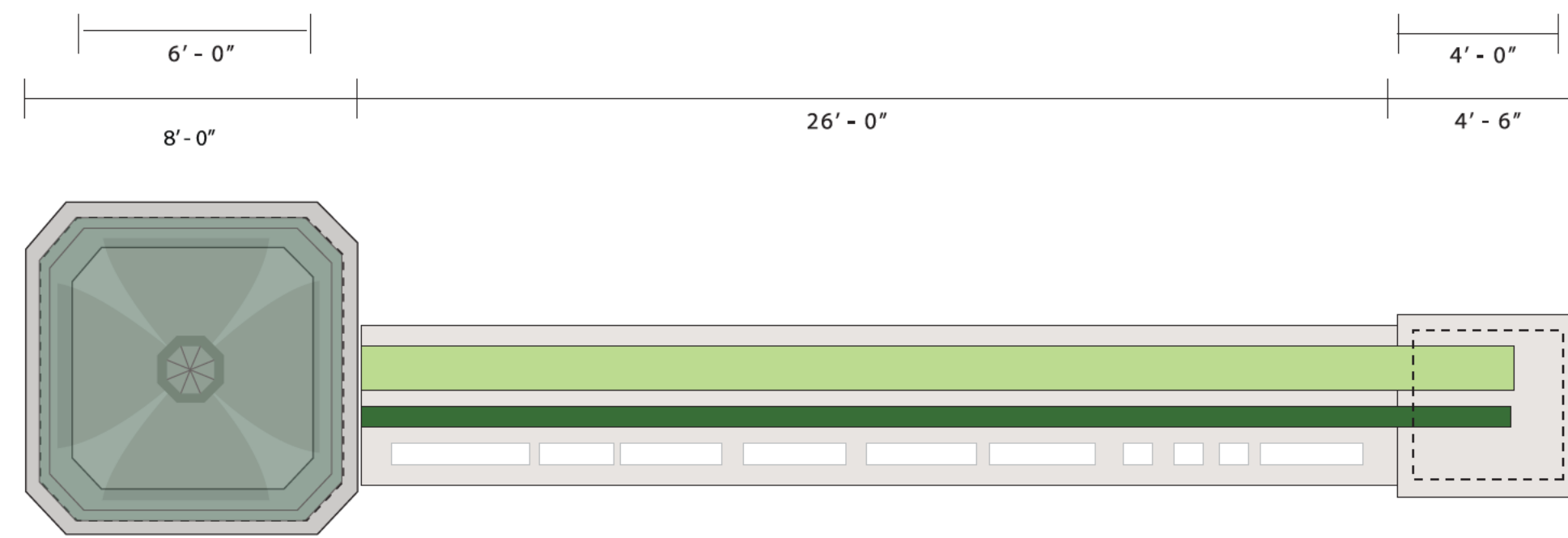
Net Order: 23,374.00
Last Discount: 0.00
Freight: 0.00
Sales Tax: 0.00
Order Total: 23,374.00

NOTE: LED PANELS BY GLOWBACK LED. CONTROLLER BY SESCO SEE SHEET LI-1.
CONTRACTOR TO COORDINATE LIGHTING WITH MANUFACTURERS TO ENSURE COMPATIBILITY.

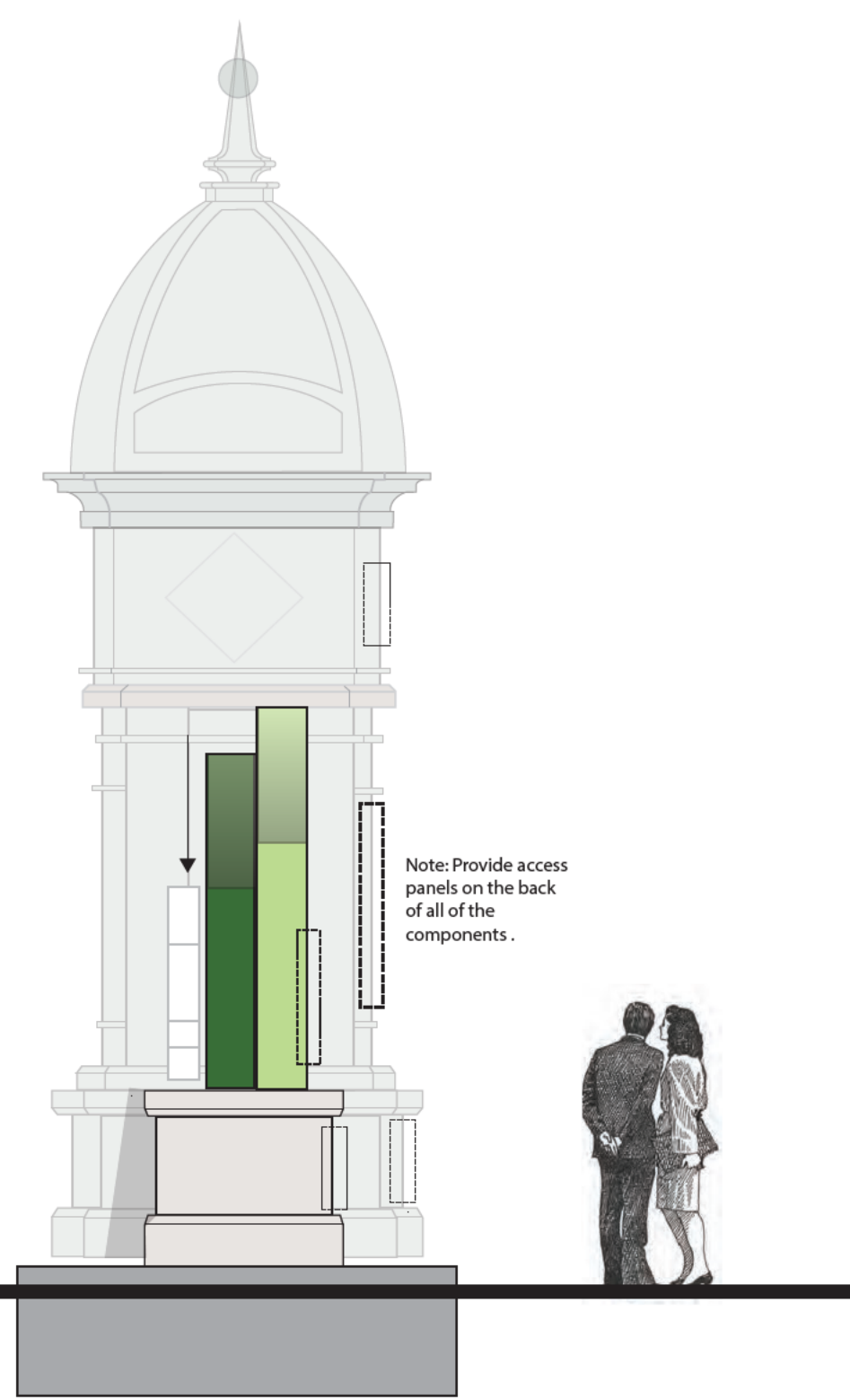
Alternate Design

DESIGN INTENT FOR ALTERNATE: SIGN TO BE FABRICATED IN MODULAR UNITS TO ALLOW PART B TO BE REPLACED TO INCREASE HEIGHT OF SIGN.

Note: if we fabricated this tower and cupola in true octagon shape it would be too large, making the signage portion of the gateway appear small. Therefore we created a beveled 8-sided structure.



Right Side View



General Fabrication Notes:

The entire tower structure is fabricated using 1/8" aluminum sheeting on frame structure for all vertical surfaces. Horizontal surfaces will require 1/4" thick aluminum sheeting for load bearing purposes. The aluminum frame system requires 4"x4" aluminum sq. tubing. All joints are welded and ground smooth. Aluminum sheeting is welded to the frame from the inside of the cabinets.

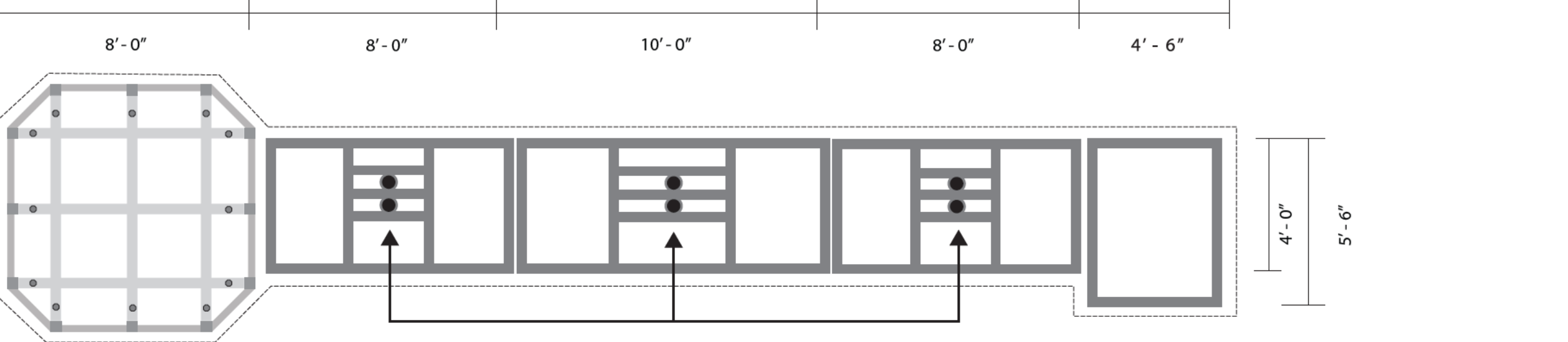
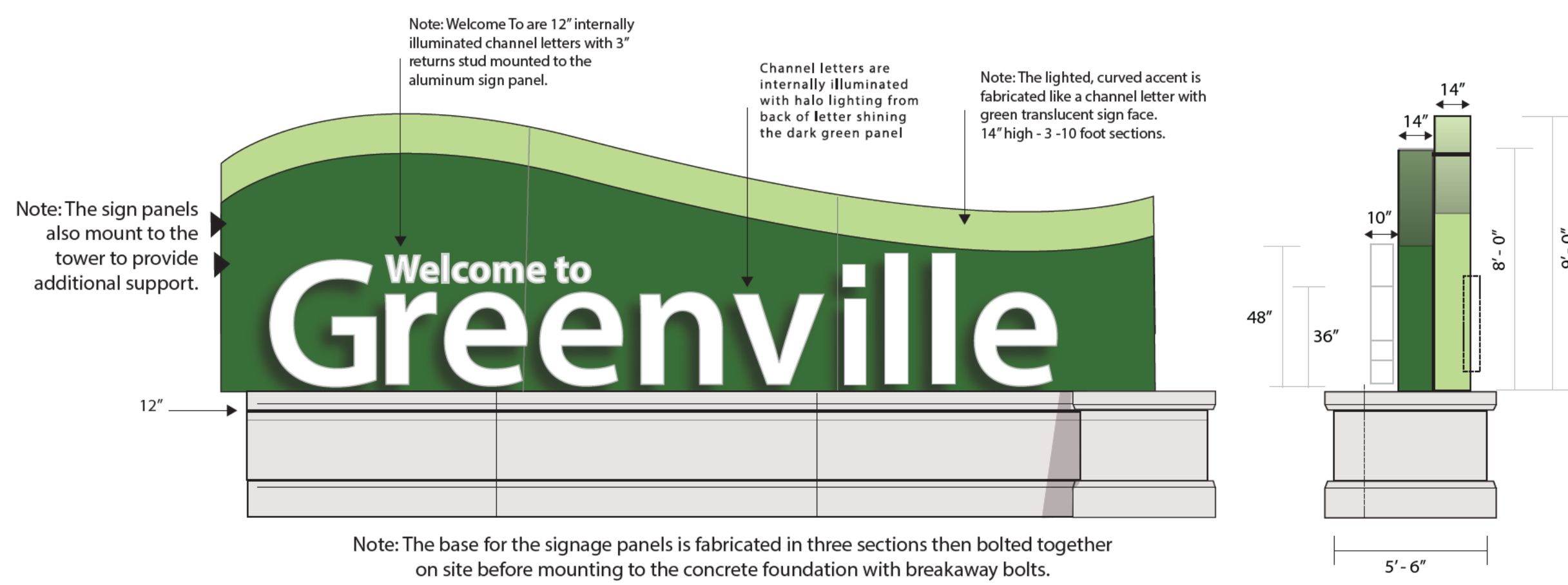
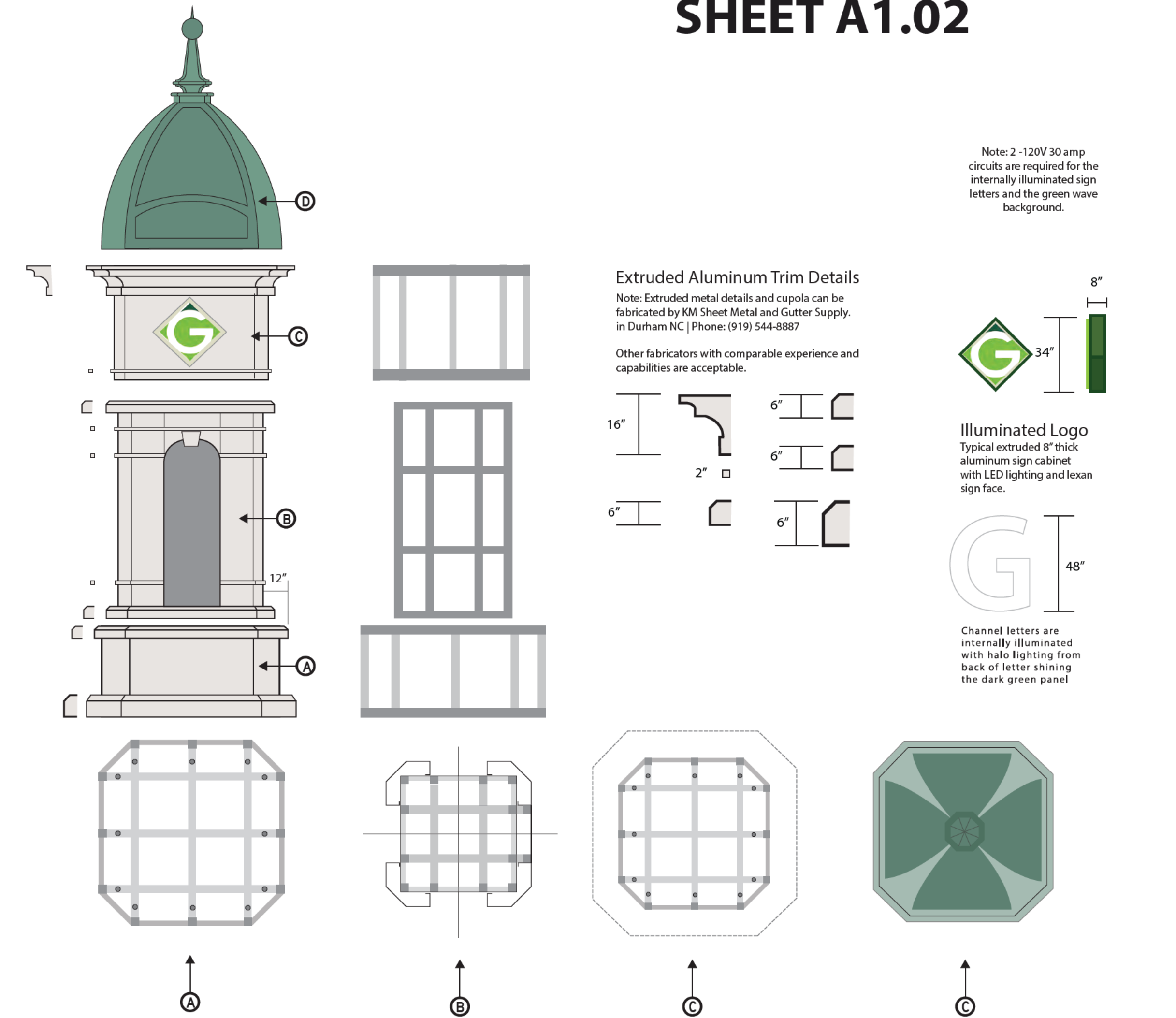
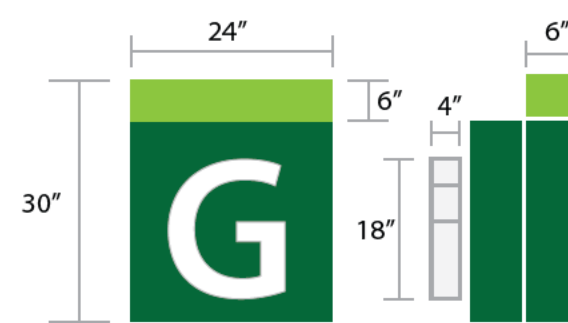
Based on the plan, the entire structure is shop fabricated as 8- separate components that assemble on site and stack as a final unit. Access doors will be placed in the back side of the unit to allow room for assembly and maintenance.

All letters custom fabricated internally illuminated aluminum channel letters with color changing LED lighting system and RGB controllers. All wiring, transformers and controllers will be hidden inside the sign cabinet. The large "Greenville" channel letters have an illuminated faced and halo lighting back. The return thickness is 10". They are stem mounted to the sign base and reinforced with mounting studs into the green backdrop panel.

The sign backdrop panels are self supporting fabricated 1/8" aluminum cabinets built in three sections. The lighted, curved accent is fabricated like a channel letter with green translucent sign face.

Before final fabrication - the sign company will be required to provide the City of Greenville a fabricated - lighted test panel showing the changeable LED lighting and the curved accent top panel. Detailed fabrication, shop drawings, showing final structural supports, colors, controller and lighting locations, and access panels shall be provided for review prior to fabrication.

Ensure that condensate line from controller cabinet is routed to the exterior of the back of the sign and is flush with surrounding grade.



Note: Five inch diameter poles provide wind load support for the backdrop panels.

10" x 10" 1/2" thick baseplate is welded to the 2" aluminum support poles. BDI will supply full size templates for mounting.

The Dent Breakaway Bolt® was introduced in the fall of 1995 as a breakaway bolt for sign supports. The reduced section of the bolt provides reliable and predictable impact performance, but yet provides the strength to resist the wind load on most sign sizes. This reduced bolt section lead to the bolt being tested and approved as fully compliant with NCHRP Report 350, including the Omni-directional criteria in October 1996.



ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including symbols and descriptions for items like AMPERES OR AMP METER, ALTERNATING CURRENT, AMP FRAME, etc.

ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including symbols and descriptions for items like POINT, POTENTIAL TRANSFORMER, PER UNIT NAMEPLATE, POLYVINYL CHLORIDE (CONDUIT), etc.

ELECTRICAL SYMBOLS

Table of electrical symbols including symbols and descriptions for items like WALL MTD LIGHTING FIXTURE AND OUTLET, PENDANT LIGHTING FIXTURE AND OUTLET, DOWNLIGHT LIGHTING FIXTURE AND OUTLET, etc.

ELECTRICAL GENERAL NOTES

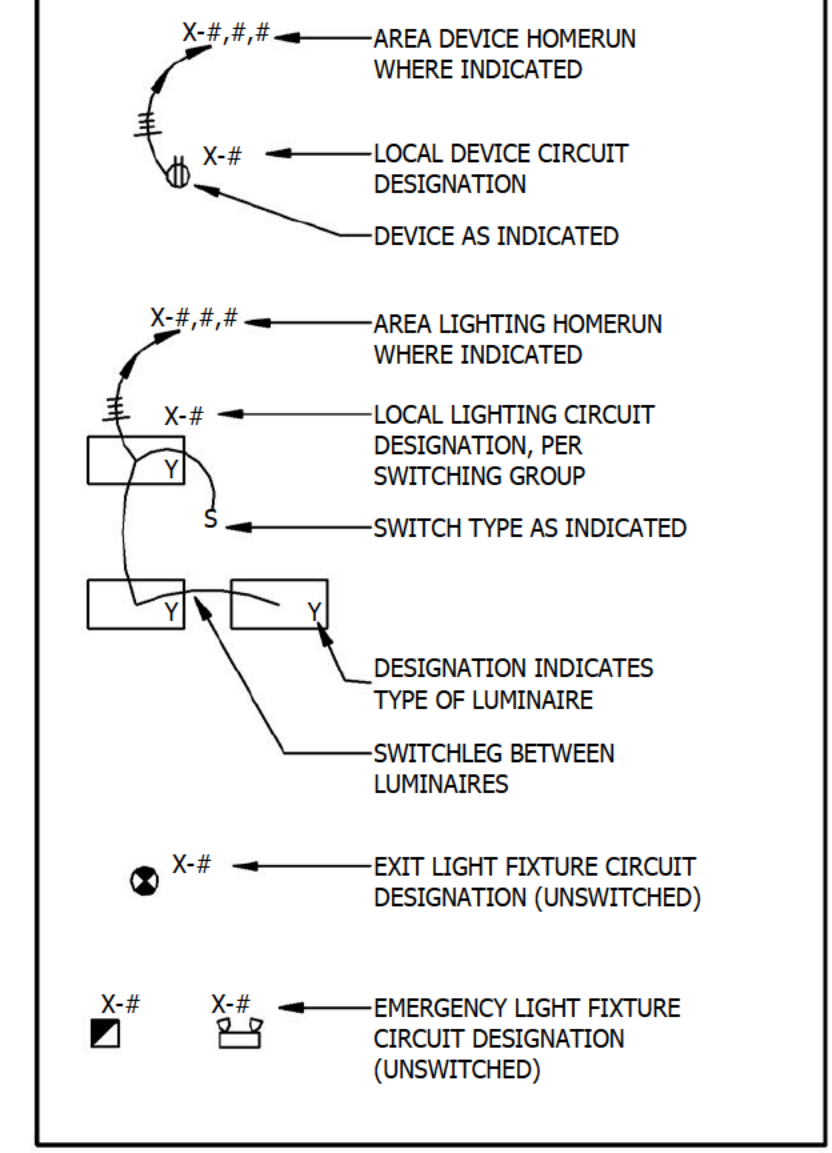
- 1 ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT.
2 SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE THEY OCCUR.
3 UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS, MOUNTING HEIGHT OF DEVICES IS TO BE THE CENTERLINE OF THE DEVICE.
4 UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO BE LOCATED 42" AFF; RECEPTACLES ARE TO BE VERTICALLY MOUNTED AT 18" AFF WITH THE GROUNDING TERMINAL ON THE BOTTOM.
5 TELEPHONE & DATA OUTLETS ARE TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE INDICATED. "W" INDICATES MOUNTING AT 42" AFF. "C" INDICATES MOUNTING ABOVE COUNTERTOP WITH ALIGNMENT AND HEIGHT AS INDICATED FOR RECEPTACLES SIMILARLY MOUNTED.
6 UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXTURE OR SWITCH DESIGNATES TYPE. SEE FIXTURE SCHEDULE FOR DETAILS.
7 LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CONTROL RELATIONSHIP. NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRCUIT CONNECTION.
8 SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITCHED FOR 24 HOUR OPERATION.

ELECTRICAL DRAWING LIST table with columns NO. and TITLE, listing items like E001 STANDARDS, SYMBOLS & ABBREVIATIONS, E002 ELECTRICAL SPECIFICATIONS, etc.

GENERAL SYMBOLS

Table of general symbols including symbols and descriptions for items like PLAN OR DETAIL NUMBER SHEET NUMBER, ELEVATION LETTER SHOWN ON SHEET NUMBER, SECTION NUMBER, etc.

ELECTRICAL CIRCUITING KEY



APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Electrical Design Summary text including Method of Compliance, Lighting schedule, and Additional Efficiency Package Options.

McAdams logo and contact information: The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

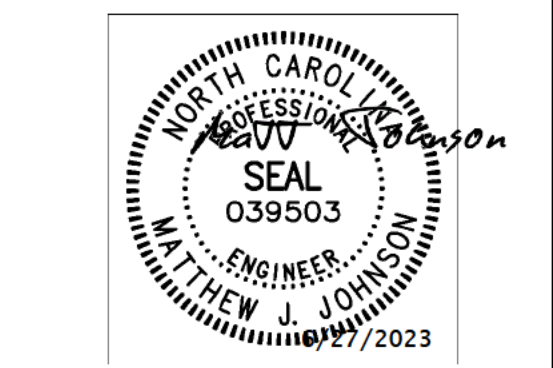
phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

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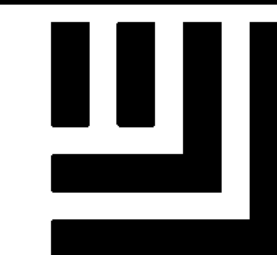
REVISIONS

PLAN INFORMATION

Table with project information: PROJECT NO. GVL21001, FILENAME GVL21001-L51, CHECKED BY MJJ, DRAWN BY ZJS, SCALE PER PLAN, DATE 06.28.2023

STANDARDS, SYMBOLS & ABBREVIATIONS

E001



MCADAMS

The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

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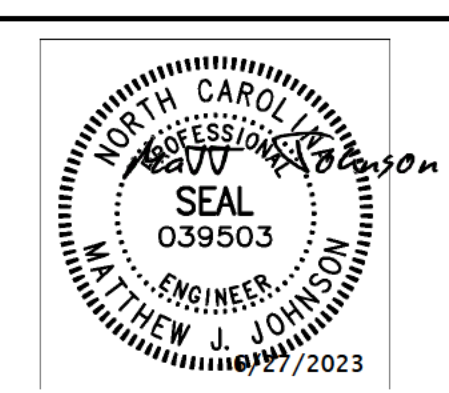
CITY OF GREENVILLE
200 W 5TH ST
GREENVILLE, NORTH CAROLINA
PHONE: 252.329. 4521



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1620 Midtown Place
Raleigh, NC 27609
919-832-8118
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REVISIONS

PLAN INFORMATION

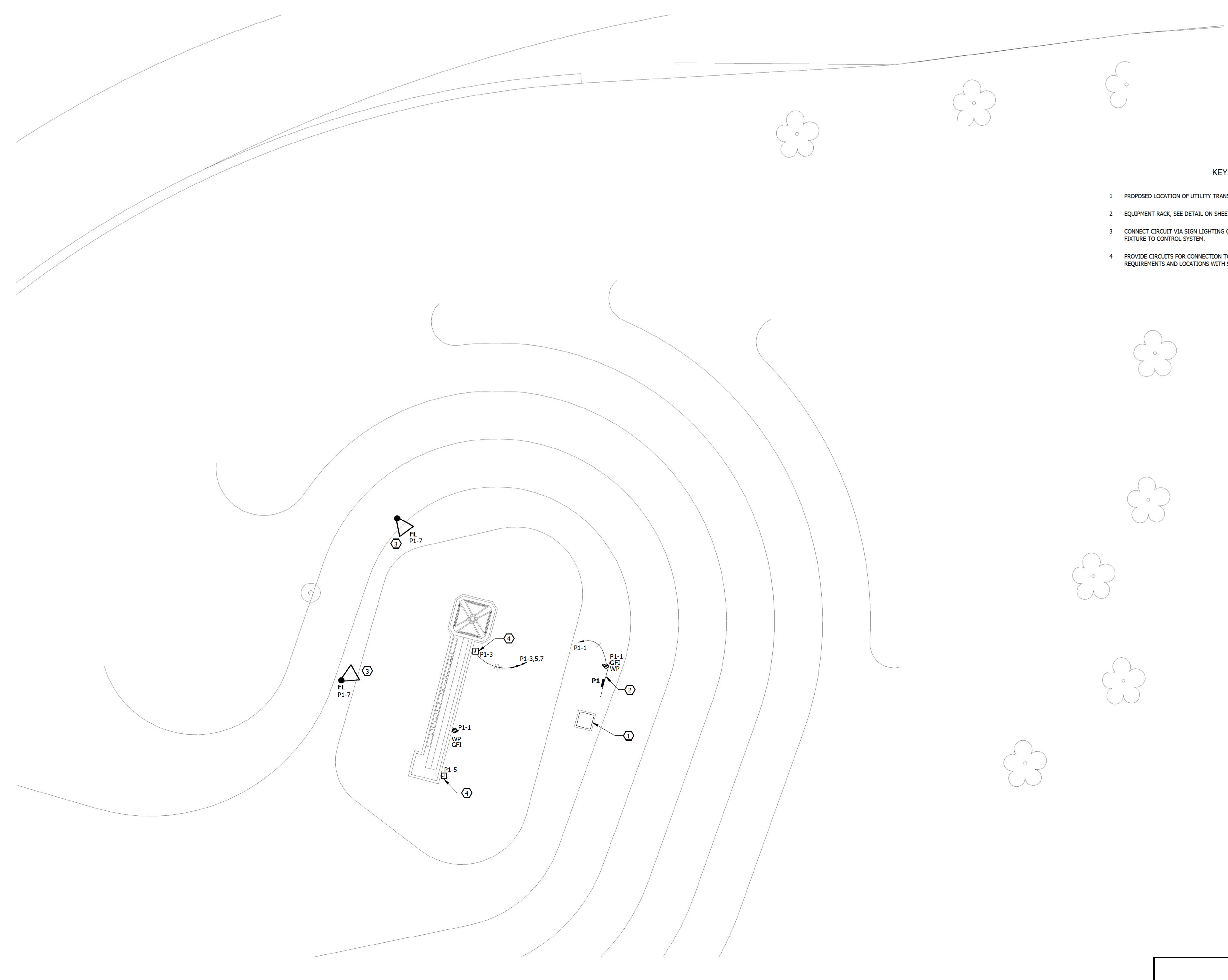
PROJECT NO.	GVL21001
FILENAME	GVL21001-LS1
CHECKED BY	MJJ
DRAWN BY	ZJS
SCALE	PER PLAN
DATE	06.28.2023

SHEET

ELECTRICAL SITE PLAN

E101

- KEY NOTES TO E101
- 1 PROPOSED LOCATION OF UTILITY TRANSFORMER, BY UTILITY COMPANY.
 - 2 EQUIPMENT RACK, SEE DETAIL ON SHEET E201.
 - 3 CONNECT CIRCUIT VIA SIGN LIGHTING CONTROL SYSTEM. PROVIDE OUTDOOR RATED DMX CABLE FROM FIXTURE TO CONTROL SYSTEM.
 - 4 PROVIDE CIRCUITS FOR CONNECTION TO INTEGRAL SIGN LIGHTING. COORDINATE EXACT CIRCUIT REQUIREMENTS AND LOCATIONS WITH SIGN PROVIDER.



1 ELECTRICAL SITE PLAN
E101 SCALE: 1" = 10'-0"
10' 5' 0 10' 20'

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SO Project No: 2022-05511

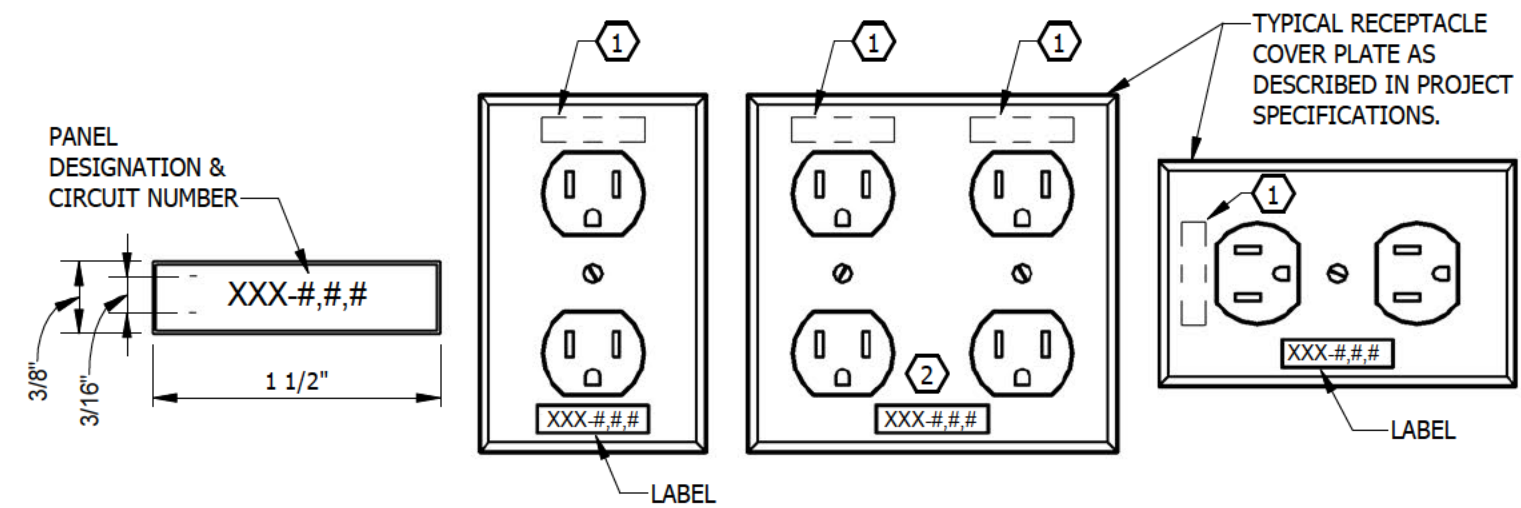


FIG. 1 - LABEL DIMENSIONS
FIG. 2 - LABEL LOCATION ON DEVICE PLATE

GENERAL NOTES:

1. LABELS ARE TO BE MACHINE PRODUCED USING A THERMAL TRANSFER PROCESS WITH DIMENSIONS AS SHOWN ABOVE. LABELS ARE TO BE SUITABLE FOR EITHER INDOOR OR OUTDOOR USE.
2. LABEL COLOR TO BE CLEAR WITH BLACK LETTERING.
3. LABELS ARE TO BE ATTACHED AS INDICATED ABOVE TO ALL PROJECT RECEPTACLE COVER PLATES.

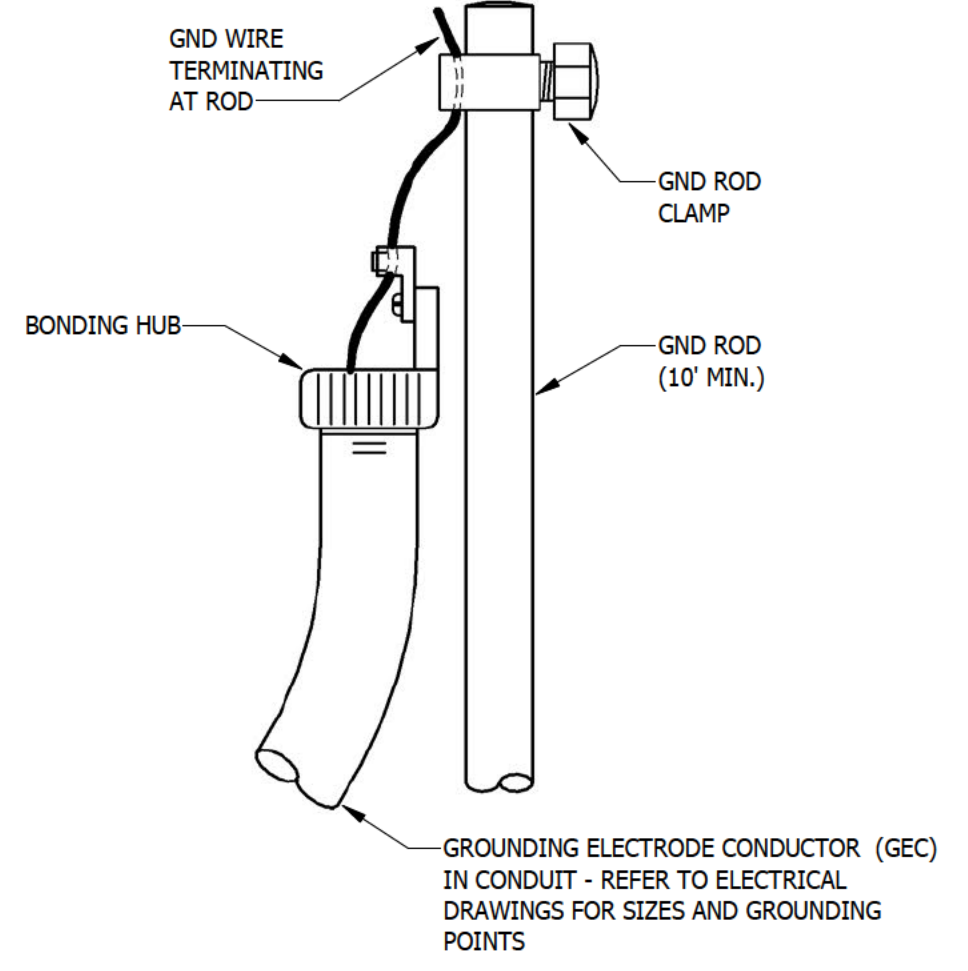
KEYED NOTES:

- ① WRITE PANEL DESIGNATION NUMBER ON DEVICE YOKE WITH A FINE TIP, PERMANENT MARKER AS AN AID TO PROPER FACEPLATE LOCATION. ALL MARKING ON DEVICES MUST BE COVERED BY FACEPLATE.
- ② FOR DUPLEX RECEPTACLES CENTER LABEL IF BOTH DEVICES ARE SUPPLIED BY THE SAME CIRCUIT. IF DEVICES ARE SUPPLIED BY DIFFERENT CIRCUITS PROVIDE A LABEL BELOW EACH RECEPTACLE.

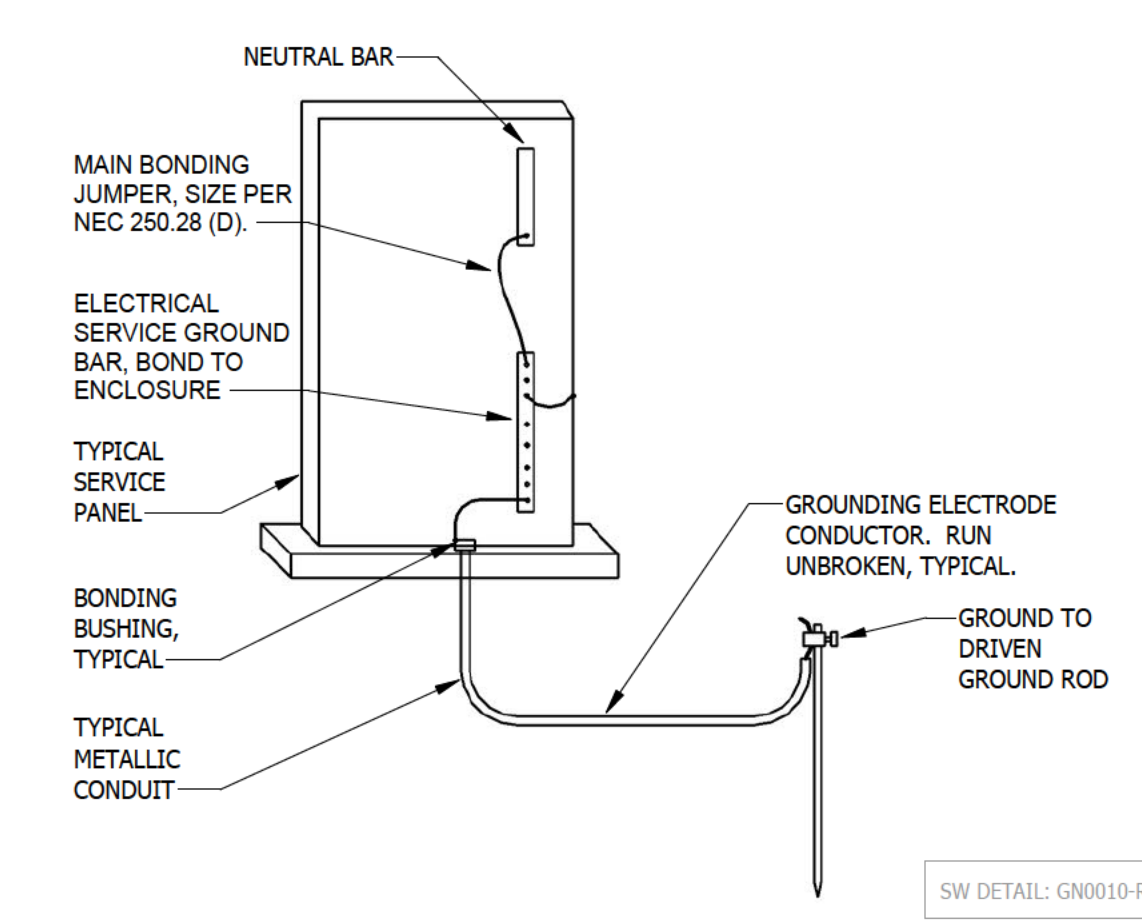
4 DEVICE LABELS
SCALE: NTS

WARNING

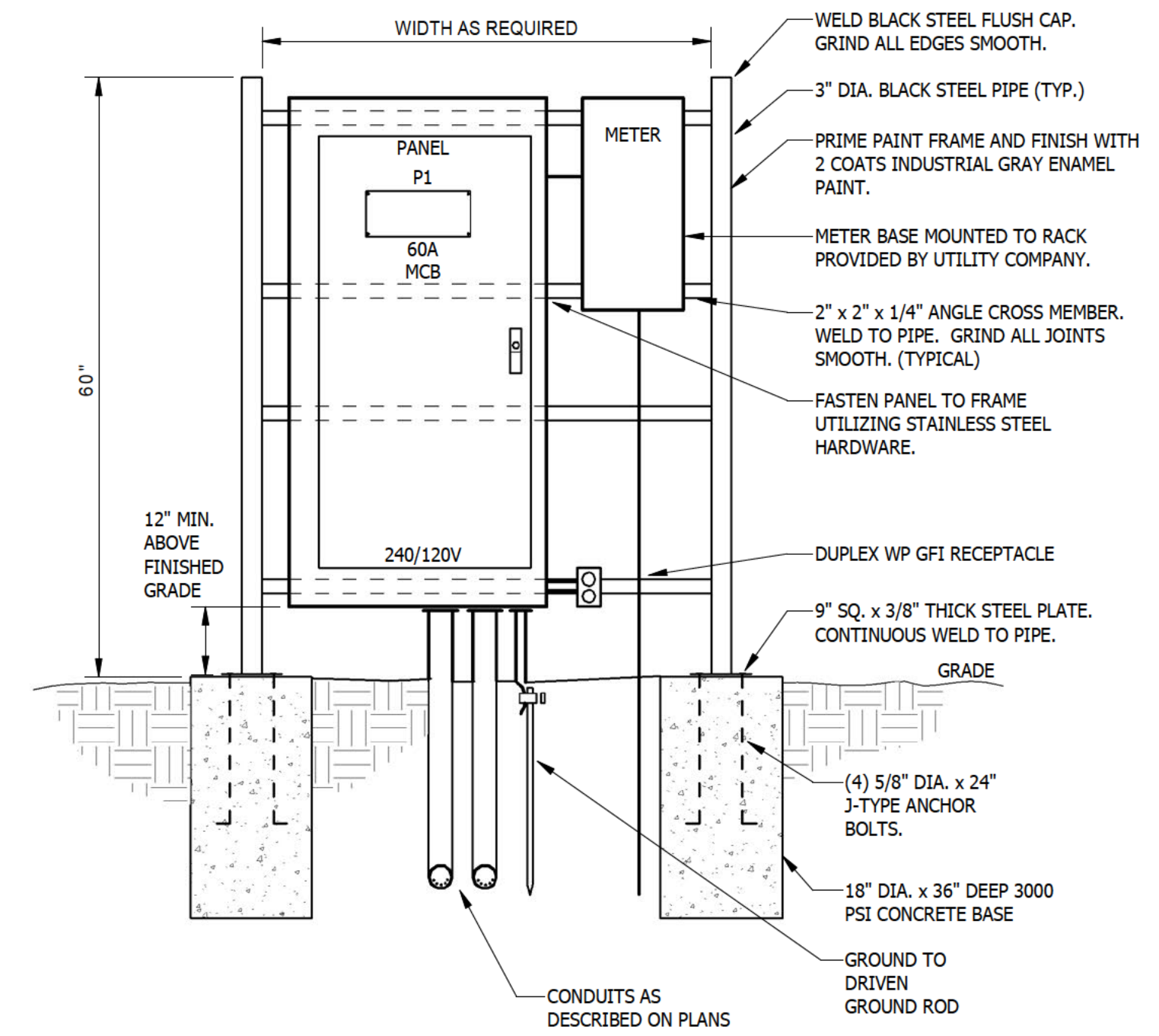
1. **FIELD VERIFY** EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DRIVING GROUND RODS.
2. **DO NOT** USE POWER ASSISTED TOOLS TO DRIVE GROUND RODS.



5 GROUND ROD CONNECTIONS
SCALE: NTS



6 SERVICE GROUNDING AND BONDING
SCALE: NTS

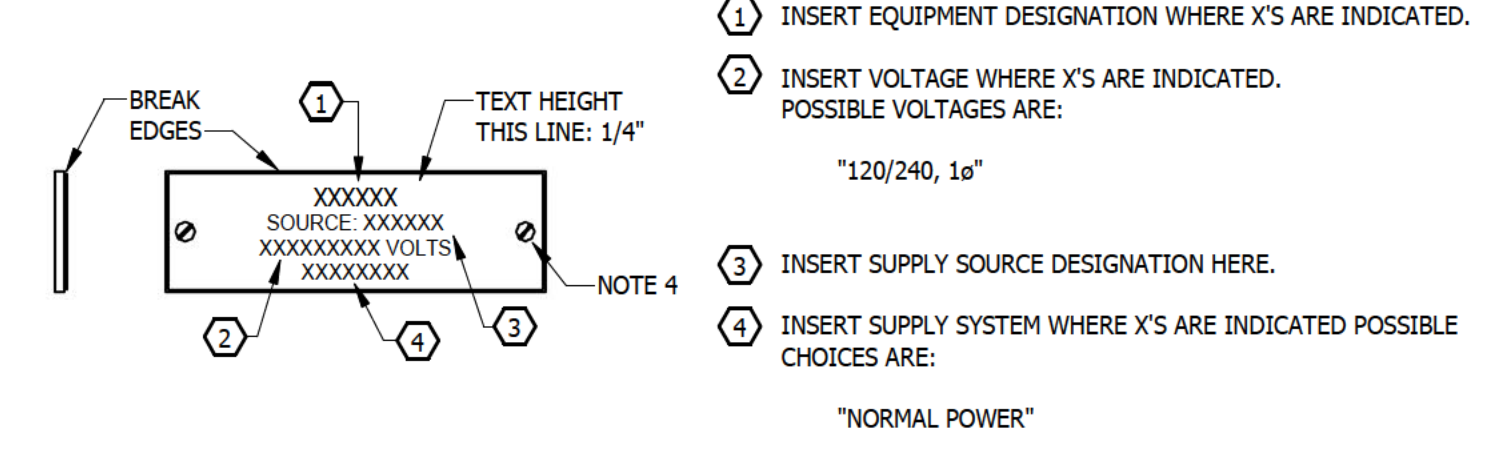


1 PANEL RACK DETAIL
SCALE: NTS

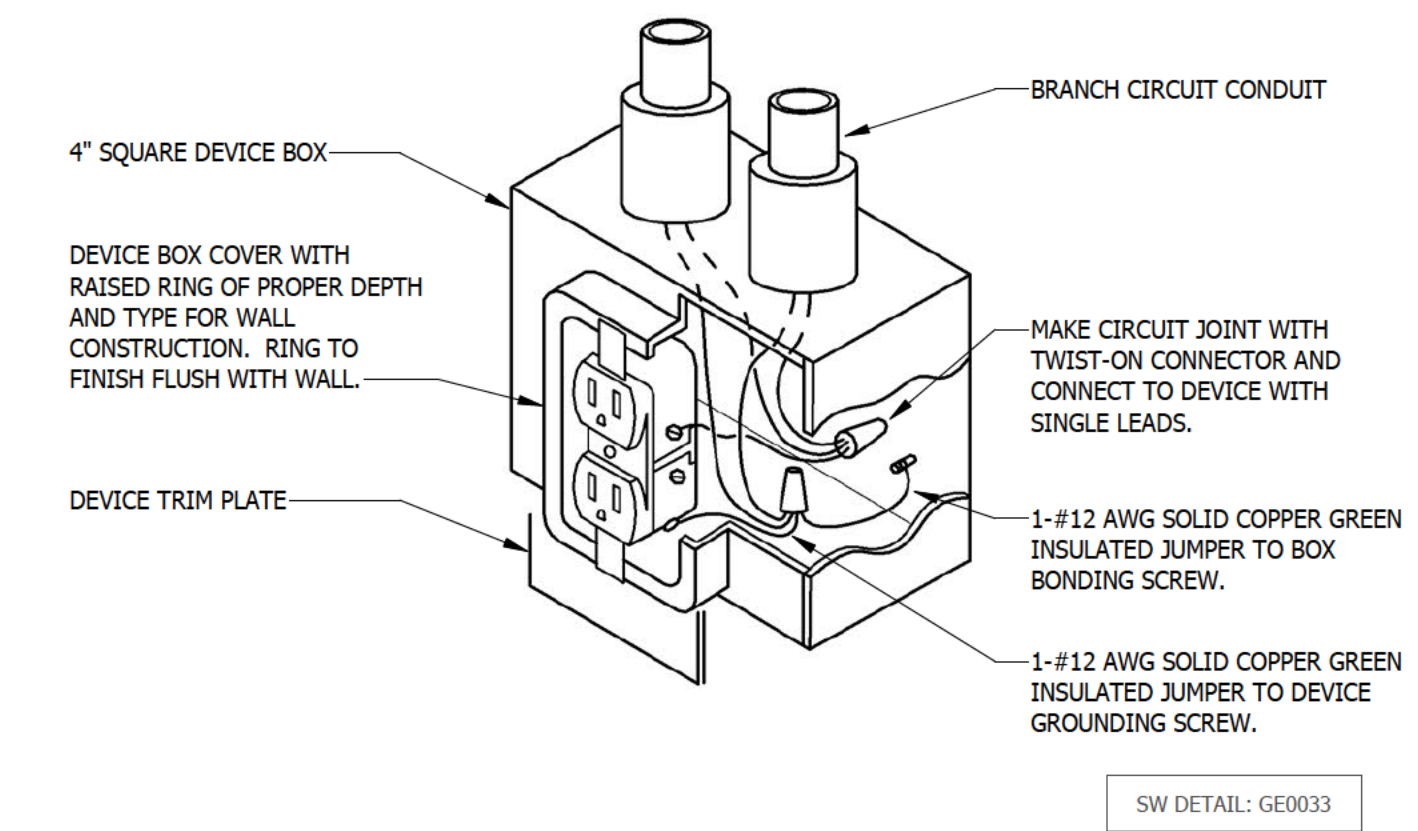
GENERAL NOTES:

1. INSTALL NEW LABELS ON ALL PROJECT EQUIPMENT (PANELBOARDS, ENCLOSED BREAKERS, DISCONNECTS, TRANSFORMERS).
2. CONSTRUCT LABELS FROM 2 COLOR PLASTIC LAMINATE. DIMENSIONS ARE 5" WIDE X 1 1/2" HIGH. TEXT HEIGHT IS 3/16", EXCEPT AS NOTED OTHERWISE.
3. LABEL COLORS ARE TO BE SELECTED FROM THE FOLLOWING CHOICES:
NORMAL SYSTEM: BLACK BACKGROUND/WHITE LETTERS
4. SECURE TO TOP CENTER OF EQUIPMENT COVER WITH #4-40 STAINLESS STEEL SCREWS WITH MATCHING NUTS AND LOCKWASHERS. USE OF ADHESIVES TO SECURE LABEL TO EQUIPMENT IS NOT ACCEPTABLE.

KEYED NOTES:



2 EQUIPMENT LABEL
SCALE: NTS



3 RECEPTACLE GROUNDING DETAIL
SCALE: NTS

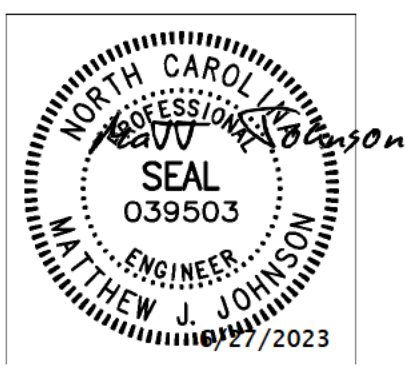
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1620 Midtown Place
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919-832-8118
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license (NC): F-1434

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REVISIONS

PLAN INFORMATION

PROJECT NO.	GVL21001
FILENAME	GVL21001-LS1
CHECKED BY	Checker
DRAWN BY	Designer
SCALE	PER PLAN
DATE	06.28.2023

**SHEET
ELECTRICAL DETAILS**


E201

PANEL ID:	P1	VOLTAGE:	120/240	SERVICE EQUIP:	Yes	MOUNTING:	Surface
SOURCE:	UTILITY	AMPS:	200	MAIN:	MCB	TYPE:	BOLT ON
LOCATION:	RACK MOUNTED	PANEL AIC:	22,000	APPROX. DIM:	20" W X 5.75" D X 50" H		NEMA 3R

LOAD	NO	COND	Phase, Neu, Grd Size	PO LE	BKR	CKT	A	B	CKT	BKR	PO LE	Phase, Neu, Grd Size	COND	NO	LOAD
REC		3/4	1-#12, 1-#12, 1-#12	1	20	1	360	--		2	--	1	--	--	SPACE
SIGN POWER		3/4	1-#10, 1-#10, 1-#10	1	30	3		2880	--	4	--	1	--	--	SPACE
SIGN POWER		--	1-#10, 1-#10, 1-#10	1	30	5	2880	--		6	--	1	--	--	SPACE
LIGHTING - EXTERIOR		--	1-#12, 1-#12, 1-#12	1	20	7		48	--	8	--	1	--	--	SPACE
FUTURE CAMERA		--	--	1	20	9	0	--		10	--	1	--	--	SPACE
SPARE		--	--	1	20	11	0	--		12	--	1	--	--	SPACE
SPARE		--	--	1	20	13	0	--		14	--	1	--	--	SPACE
SPARE		--	--	1	20	15	0	--		16	--	1	--	--	SPACE
SPARE		--	--	1	20	17	0	--		18	--	1	--	--	SPACE
SPARE		--	--	1	20	19	0	--		20	--	1	--	--	SPACE
SPARE		--	--	1	20	21	0	--		22	--	1	--	--	SPACE
SPARE		--	--	1	20	23	0	--		24	--	1	--	--	SPACE
							3240 VA		2926 VA						
							27 A		24 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	5760 VA	100.00%	5760 VA	
REC	360 VA	100.00%	360 VA	CONNECTED LOAD 6166 VA
Lighting - Exterior	48 VA	125.00%	60 VA	DEMAND LOAD 6177 VA
				AVG. CONNECTED CURRENT 26 A
				AVG. DEMAND CURRENT 26 A

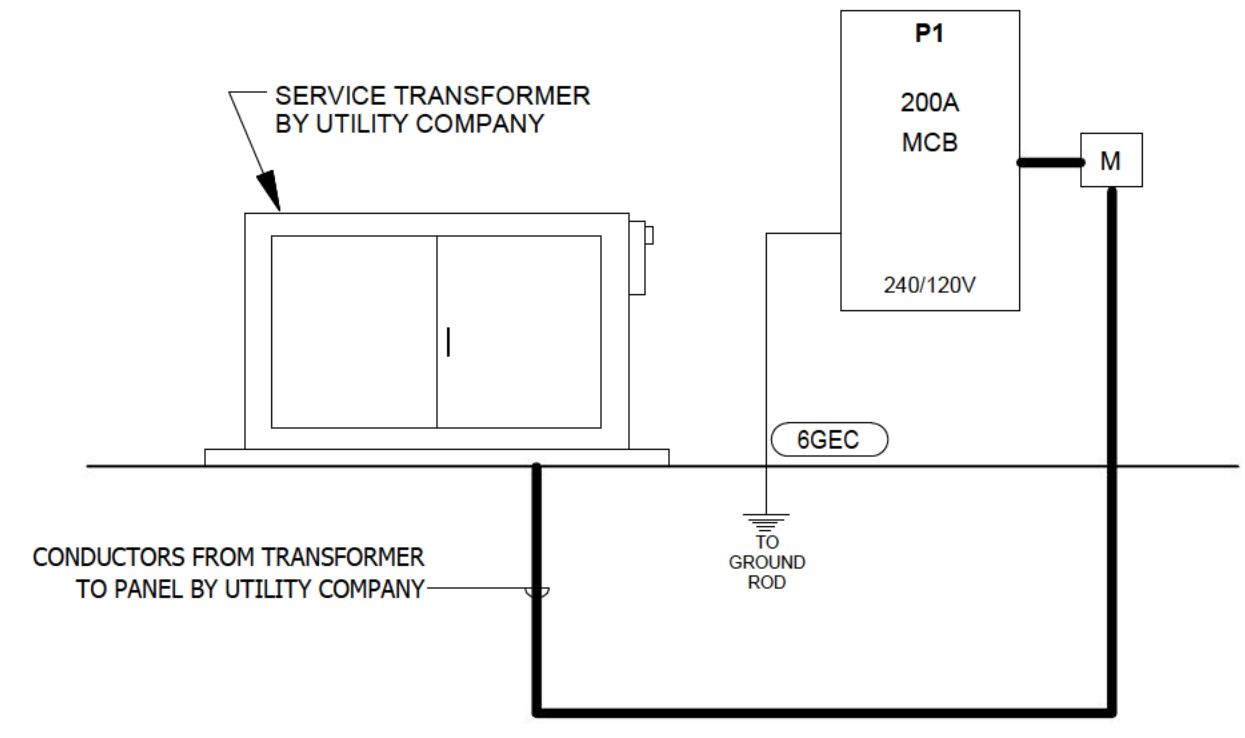
NOTES:

LIGHTING FIXTURE SCHEDULE									
TYPE MARK	DESCRIPTION	LUMENS	MOUNTING	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING SPECIFICATION ML	COMMENTS	ICON
FL	GROUND MOUNTED FLOOD LIGHT	2200	GROUND	120	24 VA	DMX	FILIX RD200 DECO PIL CRICKET+20 LIGMAN UKI-60741	PROVIDE CUSTOM ROYAL BLUE COLOR TEMPERATURE	

FIXTURE SCHEDULE NOTES:

- THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERFORMANCE REQUIREMENTS AND A LEVEL OF QUALITY REQUIRED FOR THE PROJECT. **MANUFACTURER'S NAMES AND FIXTURE SERIES/MODELS IN SCHEDULE ARE NOT A BRAND NAME SPECIFICATION.** EQUIVALENT FIXTURES BY MANUFACTURERS OTHER THAN THOSE LISTED MAY BE SUBMITTED FOR THIS PROJECT.
- PROVIDE LED DRIVERS SUITABLE FOR FULL RANGE DIMMING, INTEGRAL SURGE PROTECTION, CURRENT TOTAL HARMONIC DISTORTION (THD) OF <20% AND A POWER FACTOR >0.90. IN ADDITION, DRIVERS MUST BE RF SUPPRESSED FOR MINIMUM INJECTION OF FEEDBACK INTO SUPPLY LINES. MAXIMUM CURRENT THD AND MINIMUM POWER FACTOR MUST BE SUBMITTED AS A PART OF THE FIXTURE SUBMITTAL DATA.
- UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.
- PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. **CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.**
- PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE PLANS.
- ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.
- ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.

SW DETAIL: IN0011 LED



1
E202
SCALE: NTS
ELECTRICAL DISTRIBUTION RISER

GENERAL NOTES TO POWER RISERS:

- PROVIDE 4" (NOMINAL) THICK, 3000 PSI CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED GEAR AND TRANSFORMERS. FINISH SMOOTH AND CHAMFER EDGES.
- COORDINATE LOCATIONS FOR ALL DRY TYPE TRANSFORMERS TO PROVIDE NEC MANDATED WORKING CLEARANCES AND PROVIDE CLEARANCES FROM WALLS AS RECOMMENDED BY PRODUCT MANUFACTURER TO PROMOTE AIR CIRCULATION (6" MIN)

ELECTRICAL FEEDER SCHEDULE		
Mark	Ampacity	Description
6GEC	N/A	GROUNDING ELECTRODE CONDUCTOR, 1-#6 IN 1/2" RMC. SEE NOTE 3.

NOTES TO FEEDER SCHEDULE:

- ALL AMPACITIES ARE BASED ON 75° C. RATING. CONTRACTOR IS RESPONSIBLE FOR THE MODIFICATION OF CONDUCTOR SIZES AS NECESSARY TO MEET THE REQUIREMENTS OF NEC 110-14(C) WHERE TERMINATIONS ARE NOT LISTED AND LABELED FOR USE AT 75° C. THIS REQUIREMENT APPLIES TO TERMINATIONS IN BOTH NEW EQUIPMENT AND IN EXISTING EQUIPMENT TO WHICH TERMINATIONS ARE MADE AS A PART OF THIS PROJECT.
- DESIGNATION "C" IN THE ABOVE TABLE REFERS TO "CONDUIT". SEE SPECIFICATIONS FOR EXACT TYPE OF RACEWAY REQUIRED. TYPE OF RACEWAY, UNLESS INDICATED IN TABLE OR ELSEWHERE IN THE DRAWINGS, IS TO BE DETERMINED BY USE CONDITIONS.
- PROVIDE A BONDING BUSHING AT THE EQUIPMENT END OF THIS CONDUIT RUN AND A BONDING HUB AT THE CONNECTION TO THE GROUNDING ELECTRODE.



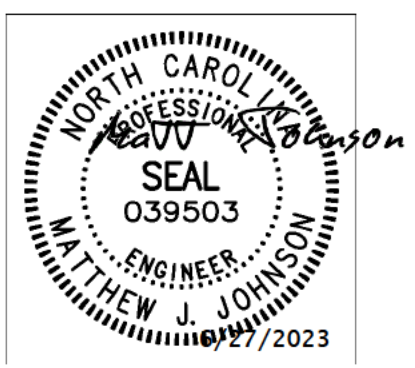
McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713
phone 919.361.5000
fax 919.361.2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT
CITY OF GREENVILLE
200 W 5TH ST
GREENVILLE, NORTH CAROLINA
PHONE: 252.329.4521



Salas O'Brien
1620 Midtown Place
Raleigh, NC 27609
919-832-8118
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REVISIONS

PLAN INFORMATION

PROJECT NO.	GVL21001
FILENAME	GVL21001-L51
CHECKED BY	Checker
DRAWN BY	Designer
SCALE	PER PLAN
DATE	06.28.2023

SHEET

ELECTRICAL SCHEDULES

E202

