GREENVILLE SIGNAGE

GREENVILLE, NORTH CAROLINA

CONSTRUCTION DRAWINGS

PROJECT NUMBER: GVL21001 DATE: JUNE 14, 2023

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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 CONFLLICT EITH FUTURE ROAD MAINTENANCE / CONSTRUCTION AT NO COST TO DOT.
- 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

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.



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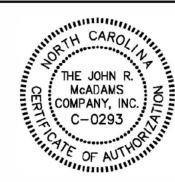
PROJECT DIRECTORY

SIGN DESIGN
BIZZELL DESIGN INC.
PO BOX 785
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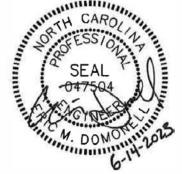


BIZZELL DESIGN

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





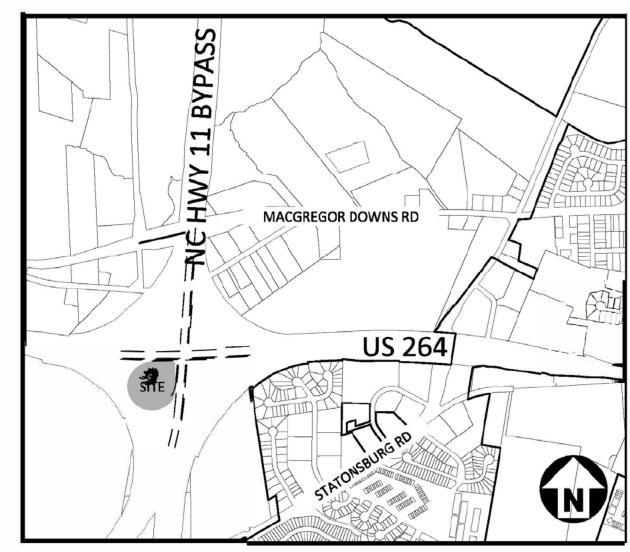


REVISIONS

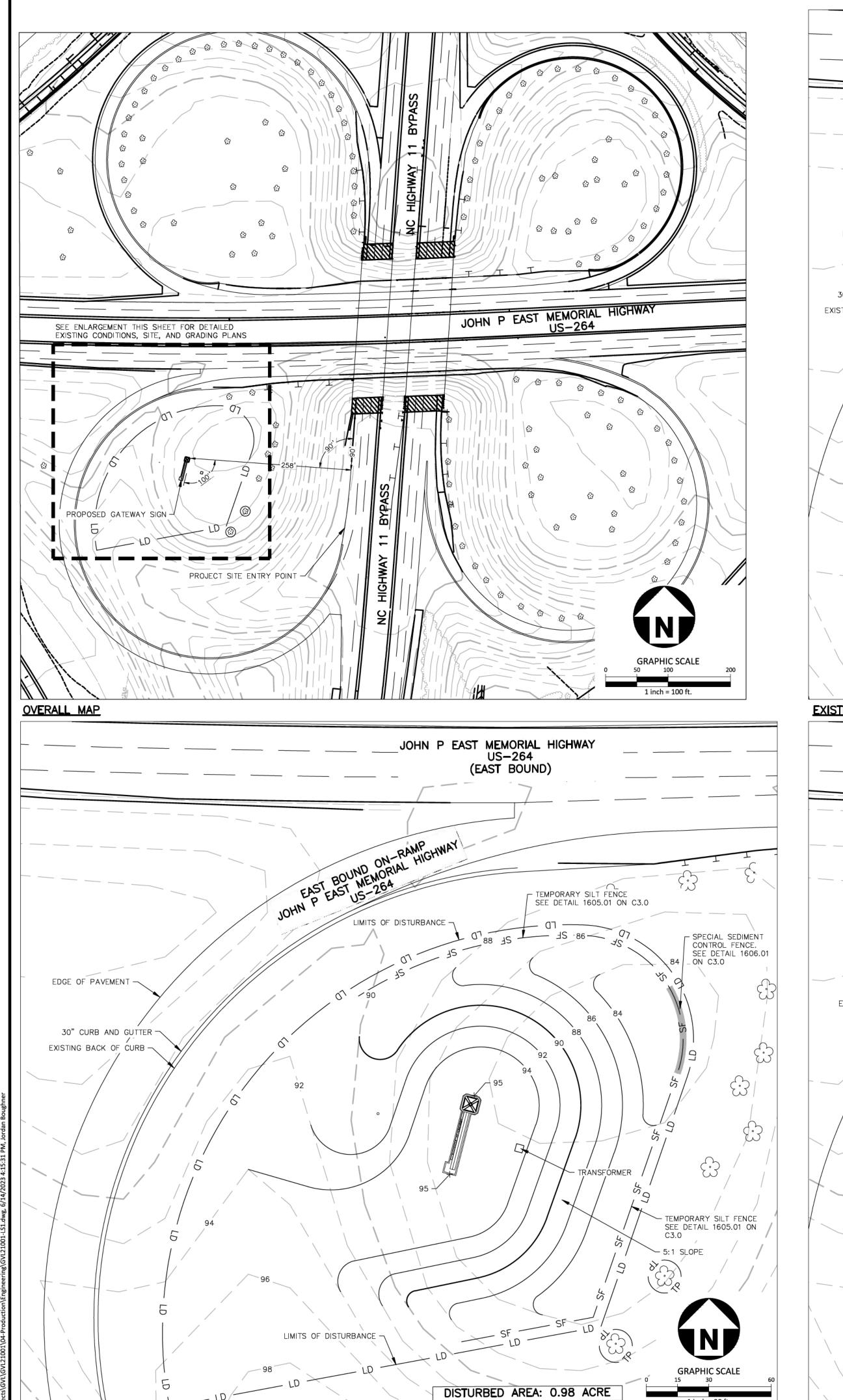
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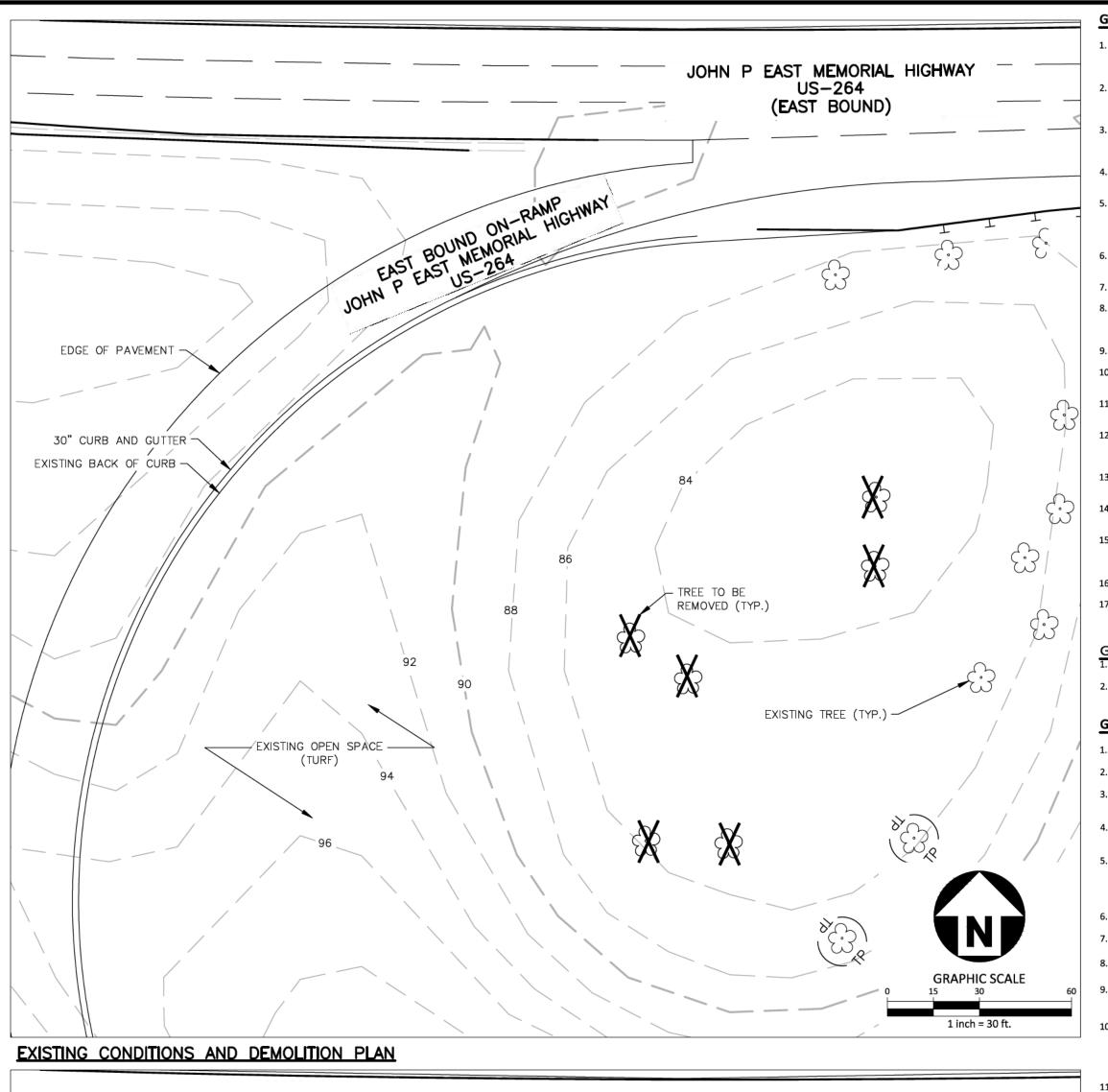
GREENVILLE SIGNAGE GREENVILLE, NORTH CAROLINA PROJECT NUMBER: GVL21001

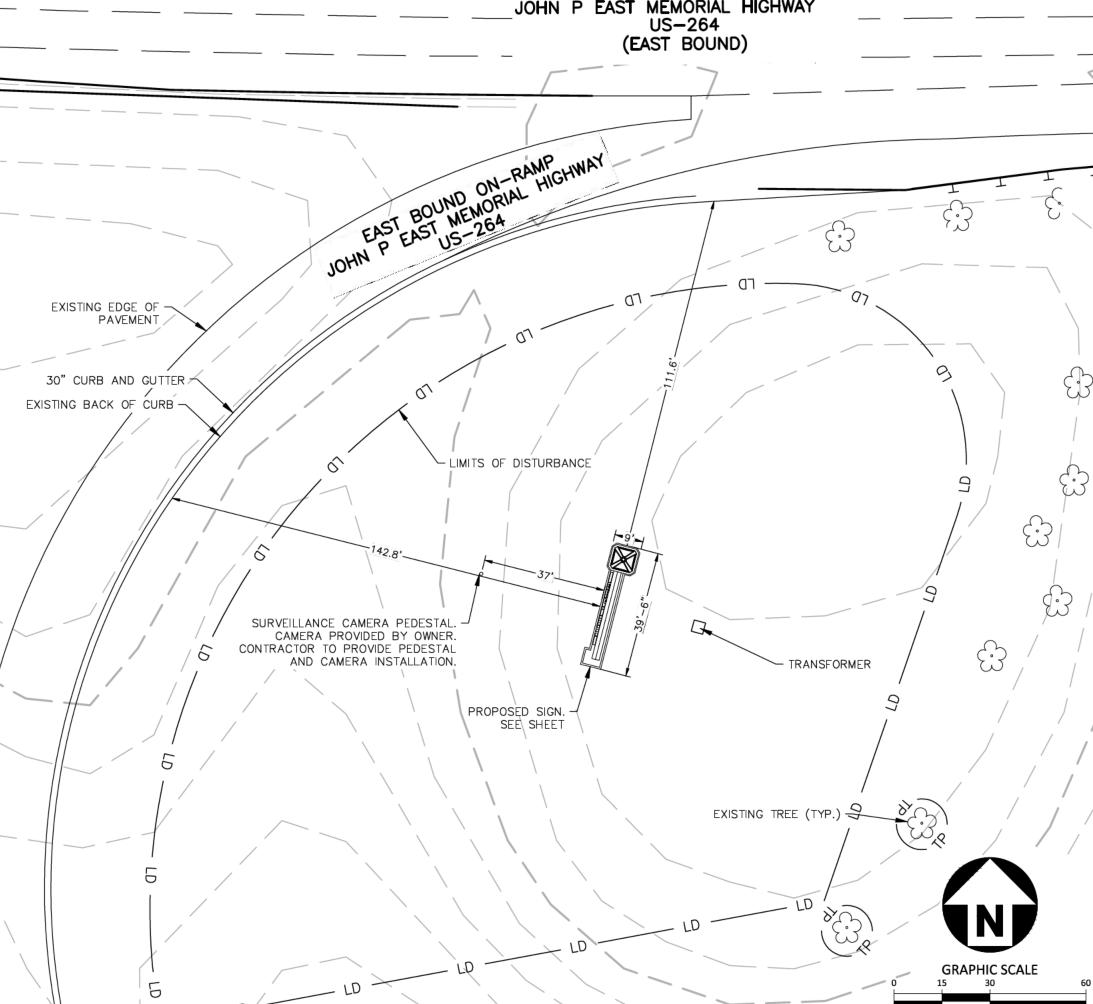


VICINITY MAP



GRADING PLAN





SITE PLAN

GENERAL SITE PLAN NOTES

- 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 DEPICTED HEREIN
- 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

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. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES AND UNUSUAL CONDITIONS TO
- OWNER'S REP PRIOR TO CONSTRUCTION. 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.
- 5. 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.
- 1. CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING THE REPAIR OF EROSION AREAS UNTIL GRASS HAS
- 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
- 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 ASSOCIATED ACTIVITY DURING
- 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.

BASE MAP INFORMATION AND TOPOGRAPHY FROM NCDOT DESIGN DRAWINGS PROVIDED BY

GENERAL GRADING NOTES

- NO DEMOLITION TO OCCUR PRIOR TO PRE-CONSTRUCTION MEETING.
- EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO ANY WORK BEING DONE.
- 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.
- CONSTRUCTION OPERATION SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS
- 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. EXISTING SPOT ELEVATIONS TO BE FIELD VERIFIED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER, UNLESS CERTIFIED BY REGISTERED GEOTECHNICAL ENGINEER.
- FOR SLOPES GREATER THAN 10' IN LENGTH AND PROTECTED BY SILT FENCE AT THE TOE OF THE SLOPE, SLOPE TERRACING WILL BE REQUIRED.
- 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 SEEDED PER THE SCHEDULE ON L5.00.

GRADING NOTES

- 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.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" 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.
- 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
- 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.
- 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.
- 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

III/IDIIIO EEGEND						
-~ -	DRAINAGE FLOW ARROW					
+ 250.60	SPOT ELEVATION					
— TP — TP — TP — — LD — LD — —						
——— SF ——— SF ———	SILT FENCE					
SF SF						
252	MINOR CONTOUR					
250	EXISTING MAJOR CONTOUR					
252	EXISTING MINOR CONTOUR					

- 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. NO STORAGE OF MATERIALS, PARKING OF VEHICLES OR DELIVERIES SHALL TAKE PLACE OUTSIDE OF THE LIMIT OF WORK.
- 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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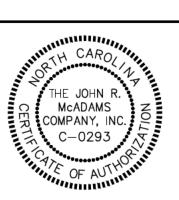
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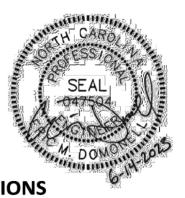
CITY OF GREENVILLE 200W 5TH ST

PHONE: 252. 329. 4521

GREENVILLE, NORTH CAROLINA







NO. DATE

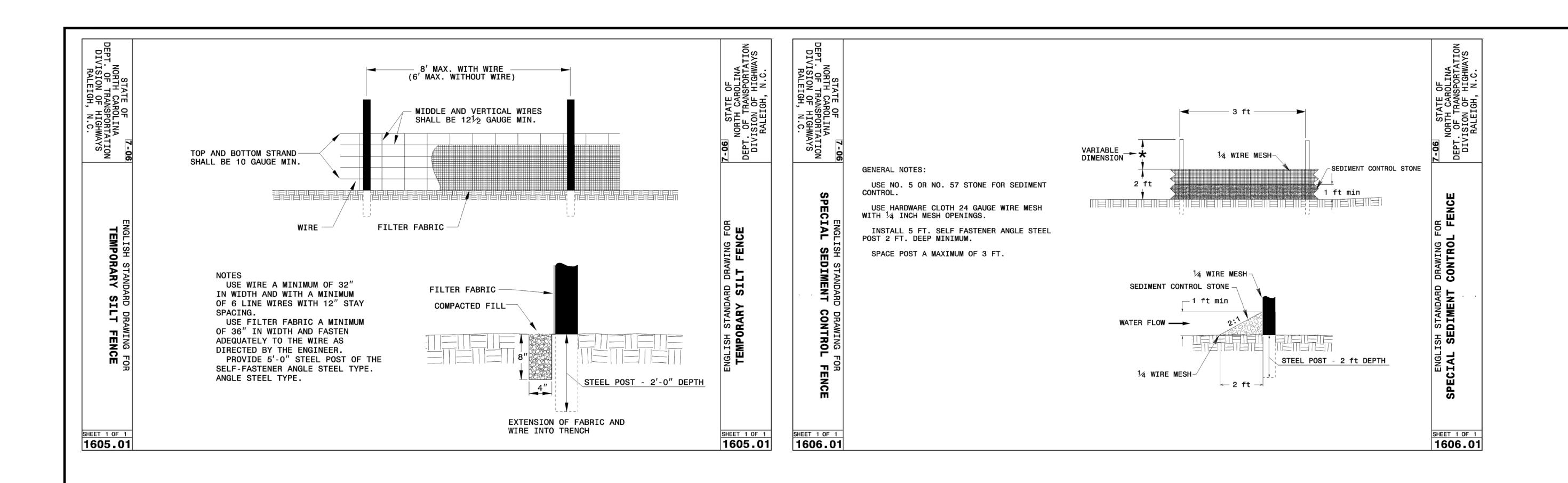
PLAN INFORMATION

PROJECT NO. GVL21001 FILENAME GVL21001-S1 CHECKED BY EMD DRAWN BY

SCALE PER PLAN DATE 06. 14. 2023

SHEET

OVERALL, SITE, GRADING AND EXISTING **CONDITIONS PLANS**





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EENVILLE GATEWAY SIGNAGE

GRI





PLAN INFORMATION

PROJECT NO. GVL21001

FILENAME GVL21001-S

CHECKED BY EMD

DRAWN BY JJB

SCALE PER DATE 06.

SHEET

DETAILS

C3.00

LANDSCAPE PLAN

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 within the seed in the seed may be a supplied to the seed may be a supplied to the seed may be supplied to the supplied to the seed may be suppl

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

METAL-EDGED BEDLINE (TYP) -

- RE-SEED DISTURBED AREA -

METAL-EDGED BEDLINE (TYP

GATEWAY SIGN, SEE SIGN PLANS FOR DETAILS

NOTES:

SIGN IS TO BE ROTATED 15° CLOCKWISE FROM THE EXISTING EDGE OF PAVEMENT.
 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.

PLANT SCHEDULE

CODE QTY

CODE QTY

BTCP

PVCN

GROUND COVERS CODE

– RE—SEÉD, DISTURBED, AREA –

(5) IXA -

(13) PVCN-

IXA

QSI

BOTANICAL / COMMON NAME

BOTANICAL / COMMON NAME

Crimson Pygmy Japanese Barberry

Panicum virgatum 'Cloud Nine'

Cloud Nine Switch Grass

BOTANICAL / COMMON NAME

NCDOT stabilization seed mix

TREE PROTECTION FENCE

- EXISTING TREE

See NCDOT Specifications

Berberis thunbergii 'Crimson Pygmy' 12" min

llex x attenuata 'Fosteri'

Foster's Holly

Shumard Oak

Liriope muscari

Quercus shumardii

CAL

3" min

3" min

<u>HEIGHT</u>

15 gal

<u>CONT</u>

Flat

Seed

<u>SPACING</u>

TRUNK FLARE AND TOP OF ROOT – BALL SHOULD BE 2" ABOVE FINISHED GRADE AFTER SETTLING

WIDTH OF PLANTING HOLE SHALL-BE 3 TIMES THE ROOT BALL DIAMETER IN HIGHLY COMPACTED OR CLAY SOIL; 2 TIMES THE ROOT BALL DIAMETER MINIMUM IN ALL OTHERS.

DIG WIDE PLANTING HOLE WITH -

CUT BURLAP, ROPE AND WIRE

O1 TREE INSTALLATION
SCALE: 3/8"=1'-0"

EXISTING GRADE YYY

SET ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLING

<u>TREES</u>

<u>SHRUBS</u>

- 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.

(400) LML

GENERAL LANDSCAPE NOTES:

- 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.
- TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.

 3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION
- 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
- 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
- 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

— 4" (10 CM) RAISED RING OF SOIL TO DIRECT WATER INTO ROOT BAL — ESPECIALLY IMPORTANT IF TOP OF ROOT BALL IS RAISED ABOVE

- 3" (8 CM) BARK MULCH; DO NOT PLACE MULCH WITHIN 3" OF TREE

- 4"-6" (10-15 CM) DEEPER THAN ROOT BALL FOR LOWERED PLANTING HOLE AS NEEDED WITH POOR

EXTEND STAKES INTO

TO STABILIZE, COMPACT A PLANTING SOIL MIX BACKFILL AROUND ROOT BALL; COMPACT SOIL BY SOAKING WITH WATER AND OR LIGHTLY HAND

- OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS.
- 14. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.

- 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, CINDERS, 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 SOIL MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF ILANTING SOIL OR SUBGRADE IS FROZEN MUDDLY OR EXCESSIVELY WET
- AFTER NATURAL 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
- 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-TIE 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

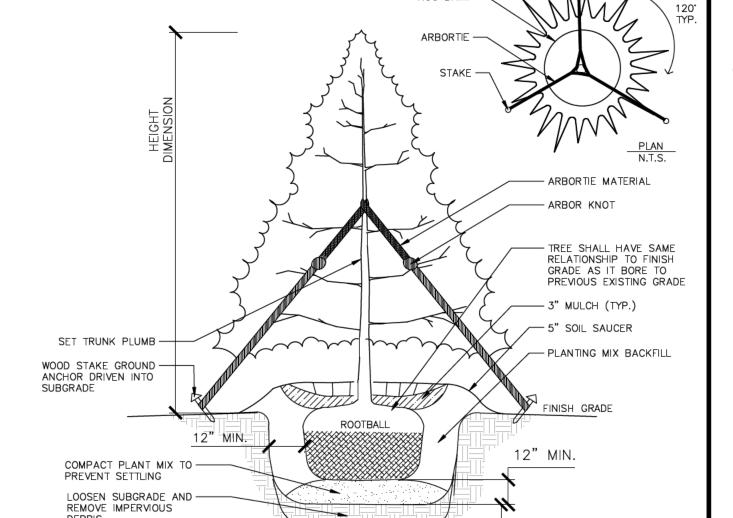
STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT

FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.

23. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.

TILLED TO INTEGRATE THE SOIL PROFILES

- 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, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE



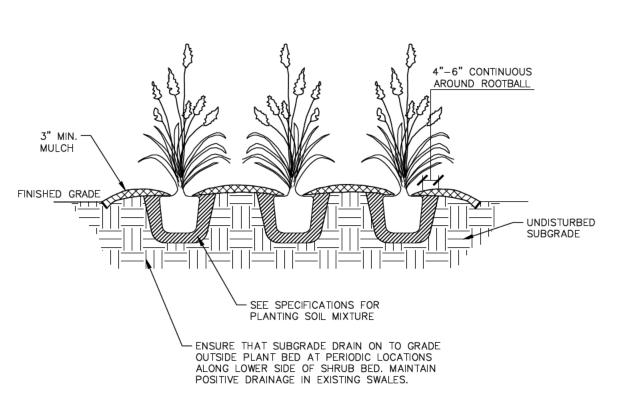
1. EVERGREEN TREES 2" CAL. OR SMALLER TO BE STAKED.
2. STAKING BASIS OF DESIGN PRODUCT: ARBORTIE OR APPROVED EQUAL.
3. STAKING TO BE REMOVED AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICA
4. PROVIDE WATER CRYSTALS PER MANUFACTURER'S RECOMMENDATIONS FOR PINE TREES.

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

PRUNE PROPORTIONALLY TO COMPENSATE -FOR REDUCTION OF ROOTS AND TO PROMOTE NATURAL CHARACTER OF GROWTH

3" (8 CM) BARK MULCH: DO NOT -

PLANTING SOIL MIX BACKFILL TO BE -COMPACTED BY SOAKING WITH WATER AND OR LIGHTLY HAND TAMPED.



NOTES:

1. SELECT TREES THAT HAVE: STRONG CENTRAL LEADER; CROWN WITH FULL FOLIAGE; ARE GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.

2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, BE SURE TO SOAK HOLE TO CONFIRM WATER FILTERS THROUGH UNDISTURBED SOIL. DESIGN ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED.

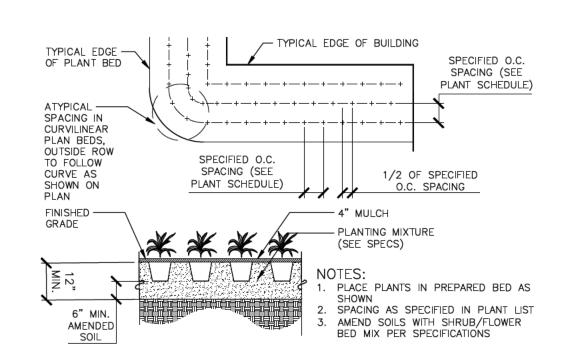
3. A SOIL EXPERT CAN BE CONSULTED TO HELP MODIFY AND FERTILIZE TOPSOIL TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC TREE SPECIES.

4. IF USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.

THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.

ORNAMENTAL GRASS PLANTING

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

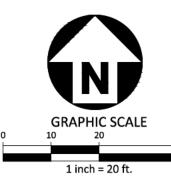


SHRUB INSTALLATION

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.





WDTH OF PLANTING HOLE SHALL BE 3
TIMES THE ROOT BALL DIAMETER IN
HIGHLY COMPACTED OR CLAY SOIL; 2
TIMES THE ROOT BALL DIAMETER MINIMUM
IN ALL OTHERS

McAdam

Durham, NC 27713 phone 919. 361. 5000

fax 919. 361. 2269

license number: C-0293, C-187

www.mcadamsco.com

The John R. McAdams Company, Inc.

2905 Meridian Parkway

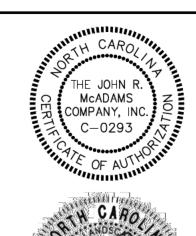
CLIENT

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



/AY

GREENVILLE GATEV SIGNAGE GREENVILLE, NORTH CARO





REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. GVL21001

FILENAME GVL21001-LS1

CHECKED BY JBG

DRAWN BY JJB
SCALE 1"=20'

SCALE 1"=20'
DATE 12. 07. 2022

SHEET

AND NOTES

O5 GROUNDCOVER PLANTING

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

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 2905 MERIDIAN PARKWAY **DURHAM NC 27713**

Job/Project Name: GREENVILLE MONUMENT SIGN

Cont	ractor:		Bid Date:	Location:	
Spec	ifiers:		Contact Name:	Туре:	
Rema	arks:				
Qty	Туре	Mfg	Part # / Description		Price
1		ETCELE	7180A1361 MSC1 MOSAIC SHOW CONTROLLER 1		
1		ETCELE	7180A1371 MSC-OPTO MOSAIC OPTO SPLITTER. DMX/RI PORTS	OM OPTO-SPLITTER WITH 4 OUTPUT	
1		ETCELE	7180A1300 MSC-PS MOSAIC 48V DIN RAIL MOUNT POWE	R SUPPLY	
1		ETCELE	LOT PRICE ETC CONTROLS (INTERCONNECTIVITY BY OTH	HER)	
1		TAGTHE	SESNEMA4AL NEMA 4 ENCLOSURE 24"X30"X12" ALUMINUM, HANDLE, PFANNENBERG A/C, HEATER, GFIC F 120VAC CIRCUIT BREAKERS, MAINS AND DMX MAINS), GROUND BAR AND NEUTRAL BAR. PO ABOVE INSTALLED ETL UL 508A LISTED. PLEAS	RECEPTICAL, THERMOSTAT, (1) SURGE SUPPRESSION (4 DMX 1 WER SUPPLY AS NEEDED. WITH	
1		SLSL	FIELD SERVICE PROGRAMMING SERVICE		
1		SLSL	IBR600C CRADLE POINT WIFI CELL MODEM		
2		SLSL	ANTENNA CELLULAR ANTENNA		
1		SLSL	FIELD SERVICE PROGRAMMING SERVICE		
			SUBTOTAL		

Page: 1 of 2

SLSL PHAROS CLOUD SERVICE 1 YEAR SUBSCRIPTION TO PHAROS CLOUD

NOTE INTERCONNECTIVITY BY OTHER

NOTE DATA PLAN WILL BE PROVIDED BY CITY OF GREENVILLE

NOTE ANY CHANGES TO BOM WILL REQUIRE A NEW QUOTE

SLSL FIELD SERVICE PROGRAMMING SERVICE

SUBTOTAL

Qty	Туре	Mfq	Part # / Description		Price
Q.,	Type	iiig	TOTAL:		11100
			TOTAL.		
			NOTES:		
			> CAT-5 CABLES ARE NOT INCLUDED		
			> RJ45 CONNECTORS/TERMINATIONS ARE NOT INC	LUDED	
			> 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	
Price	s Firm for Entry	By:	Lead Time:		
30 D	ays	-	Varies by Mfg		
Printe	ed By:		Email:	Date:	
Avery	, Matthew		mavery@sescolighting.com	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
- 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

LIGHING CONTROLS SHALL BE THE COMPONENTS ABOVE OR APPROVED

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.

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



ATEWAY EEN

REVISIONS

NO. DATE

PLAN INFORMATION

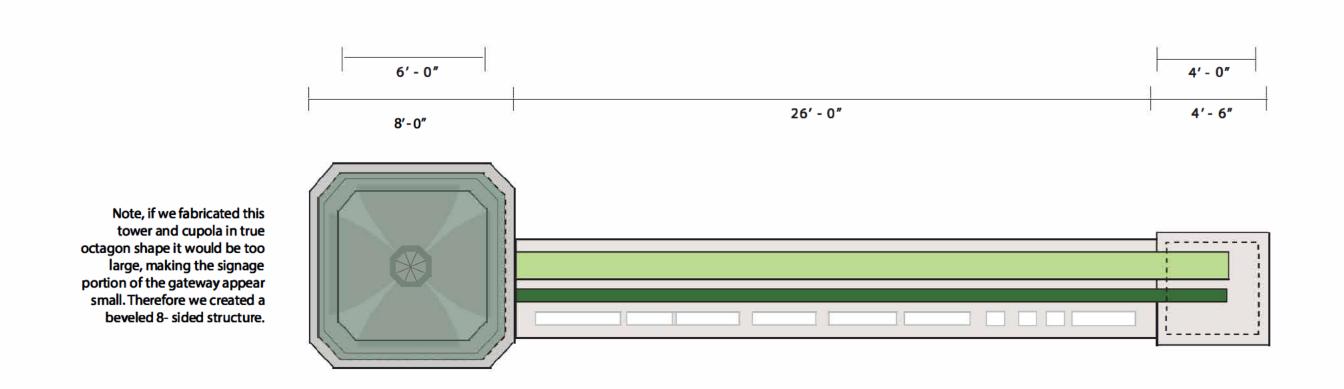
PROJECT NO. GVL21001 FILENAME GVL21001-LS1

06. 14. 2023

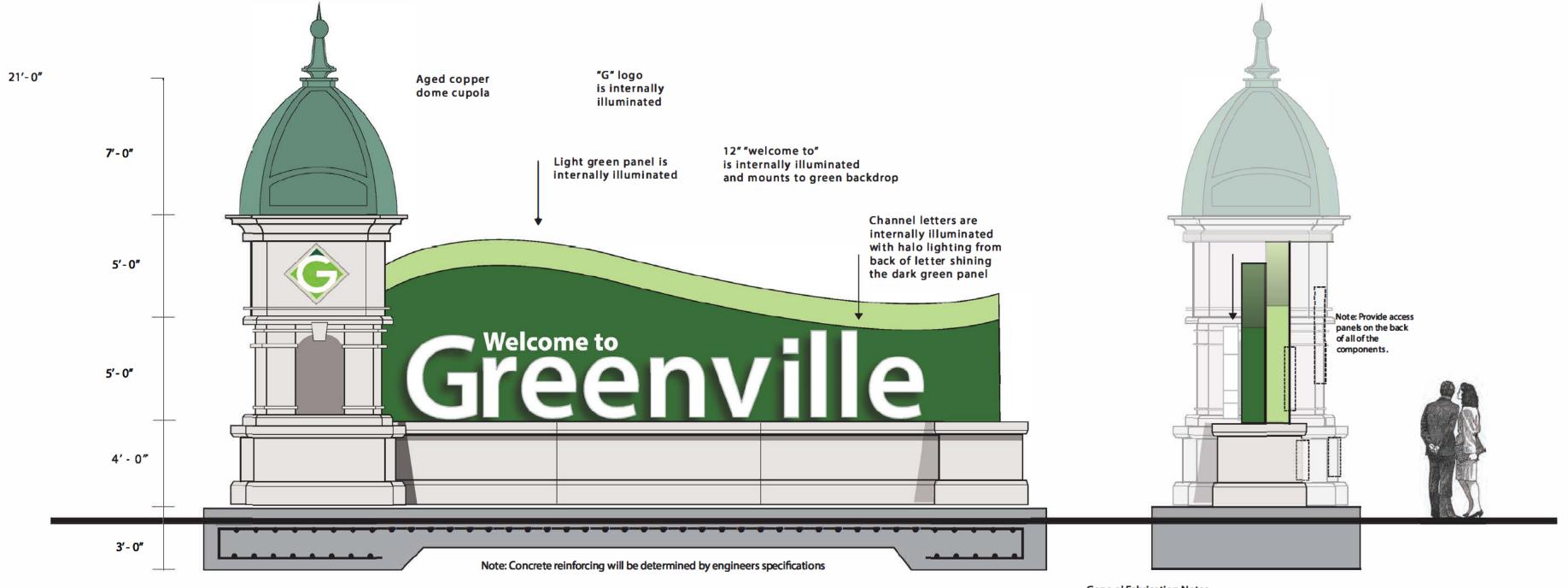
SHEET

LIGHTING

SHEET A1.00



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.

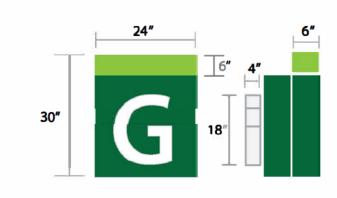
Based on the plan, the entire structure is shop fabricated as 8-separate components that assemble on site and stack as a final unit. Access doors will be placed in the back side of the unit to allow room for assembly and

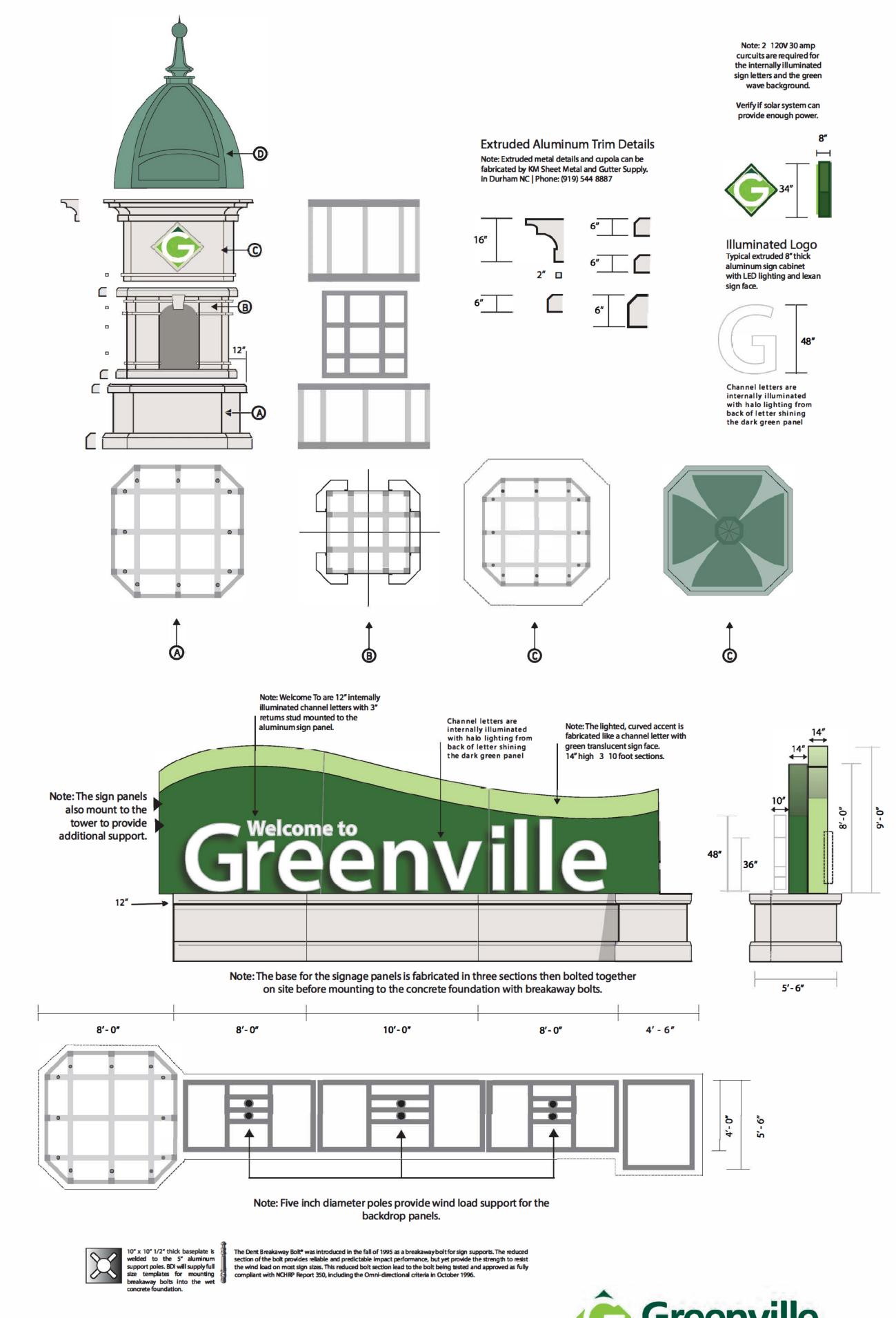
All letters custom fabricated internally illuminated aluminum channel letters with color changing LED lighting system and RGB controllers. All wiring, transformers and controllers will be hidden inside the sign cabinet. The large "Greenville" channel letters have an illuminated faced and halo lighting 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 changable 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.



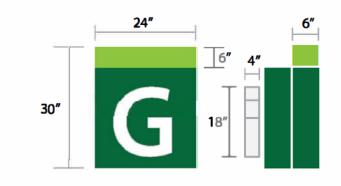


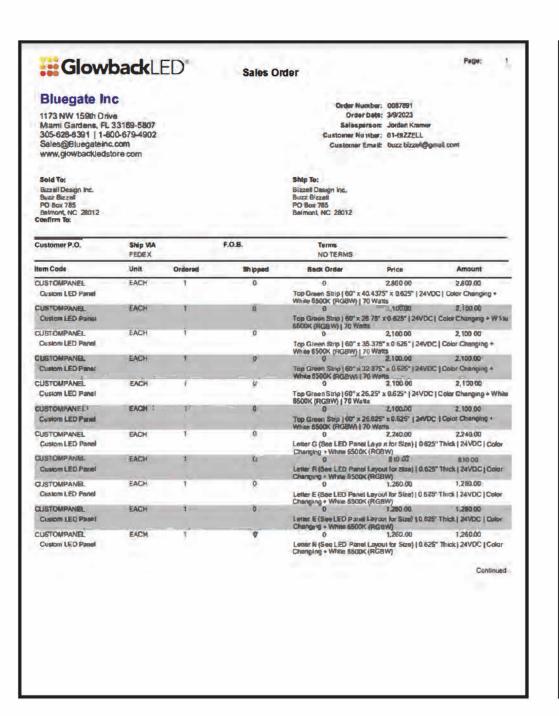
FABRICATOR TO PROVIDE ACCESS DOOR FOR LIGHTING AND ELECTRICAL COMPONENTS TO BE HOUSED INTERNAL TO THE SIGN.

Bizzell Design Inc. PO Box 785 Belmont NC 28012 / McAdams 2905 Meridian Parkway, Durham, NC 27713

SHEET A1.01

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





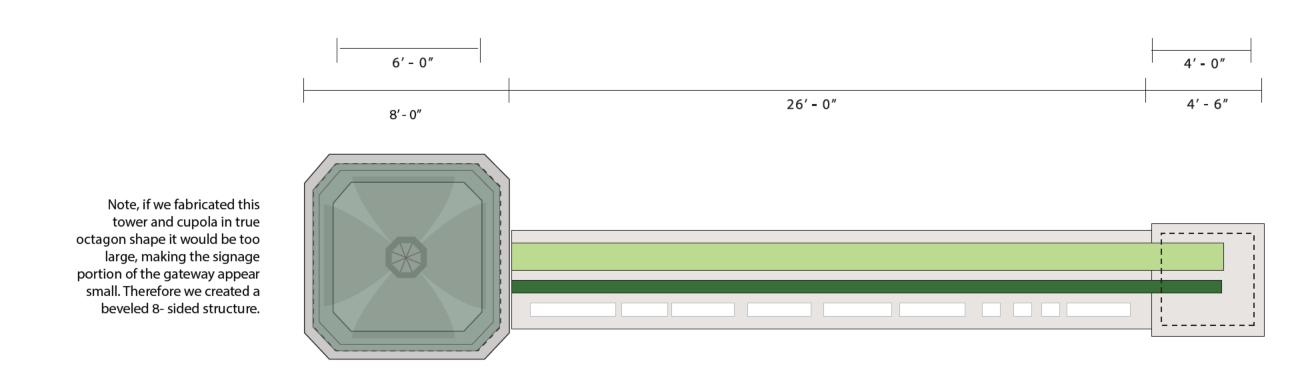
Bluegate Inc 1173 NW 159th Drive Mami Gardens, FL 33 305-628-8391 1-800- Sales@Bluegateinc.co www.glowbackledstore	679-4902 xm			Order Salespi Customer Nu	mber: 0087891 Date: 3/9/2023 reson: Joidan Kramer mber: 01-8/2/ELL mail: bu22:bi22e1@gma	l com
Sald To: Bizzell Design Inc Bizzell Design Inc Bizzell Bizzell PO Box 785 Belmont, NC 28012 Confirm Tot				Ship Tox Bizzell Design Inc Buzz Bizzell PO Box 785 Belmant, NC 28012		
Customer P.O.	Ship VIA FEDEX		F.O.B.	Terms NO TERMS		
Item Code	Unit	Ordered	Shipped	Back Order	Price	Amount
CUSTOMPANEL Custom LED Panel	EACH	1	o.	Letter V (See LED Panel	1.260,00 Layout for Size) 0 625" T	1.250.00 htck 24VDC Colo
CUSTOMPANEL Custom LED Panel	EACH	21	0	Changing • White 6500h 0 Letter I (See LED Parel	285.00 Layout for Size) (0.625° Ti	285.00 lick 24VDC Color
CUSTOMPANEL Custom LED Panel	EACH	4	0		190.00 Panel Layout for Size) (0	190.00 525" Thick 24VDC
CUSTOMPANEL Custom LEO Panel	EACH	1	0	Color Change ig + White 0 Letter L See LED Panel	475.00 Layout for Size) 0.825"	47 5.00° huck 24VDC Colo
CUSTOMPANEL Custom LED Panel	EACH	. 1	0	Changing + White 5500k 0 Letter L (See LED Panel	4/5.00 Layout for Size) 0 625" T	475.00 lick 24VDC Color
CUSTOMPANEL. Custom LED Panel	EACH	Tr.	0		1,260.00 Layout for Size) 0.625°1	1,260.00 hick 24VDC Cold
EG2108-2495CVF 96W DMX/RDM Power Sup	EACH ply 4 Channel	16	0	Changing + White 5500k	136.90	2,190.40
PSURECRIGI Receiver and PSU Configure	EACH atton and Set	16 ip	0.		60.00 er / DMX Decoder Setup fo	960.00 or a Plug and Play
STICKDE3 Nicoleaudie Stick-DE3	EACH	-1	0	Installation 0 Nicolaudie Stick-DE3	999.00	999.00
PROGRAM Gentralier Programing du	EACH	,	Ō	Programming software in	150 00 E3 is delivered as a clean- (dynamic and state) to be included to be predignate as able to help you active positrol functionality.	prograft med.
Pricing Includes FREE Stan	dard Ground	Shipping			Net Order: Less Discount; Freight: Sales Tax:	28,374,4 0.0 0.0
					Order Total:	28.374.4

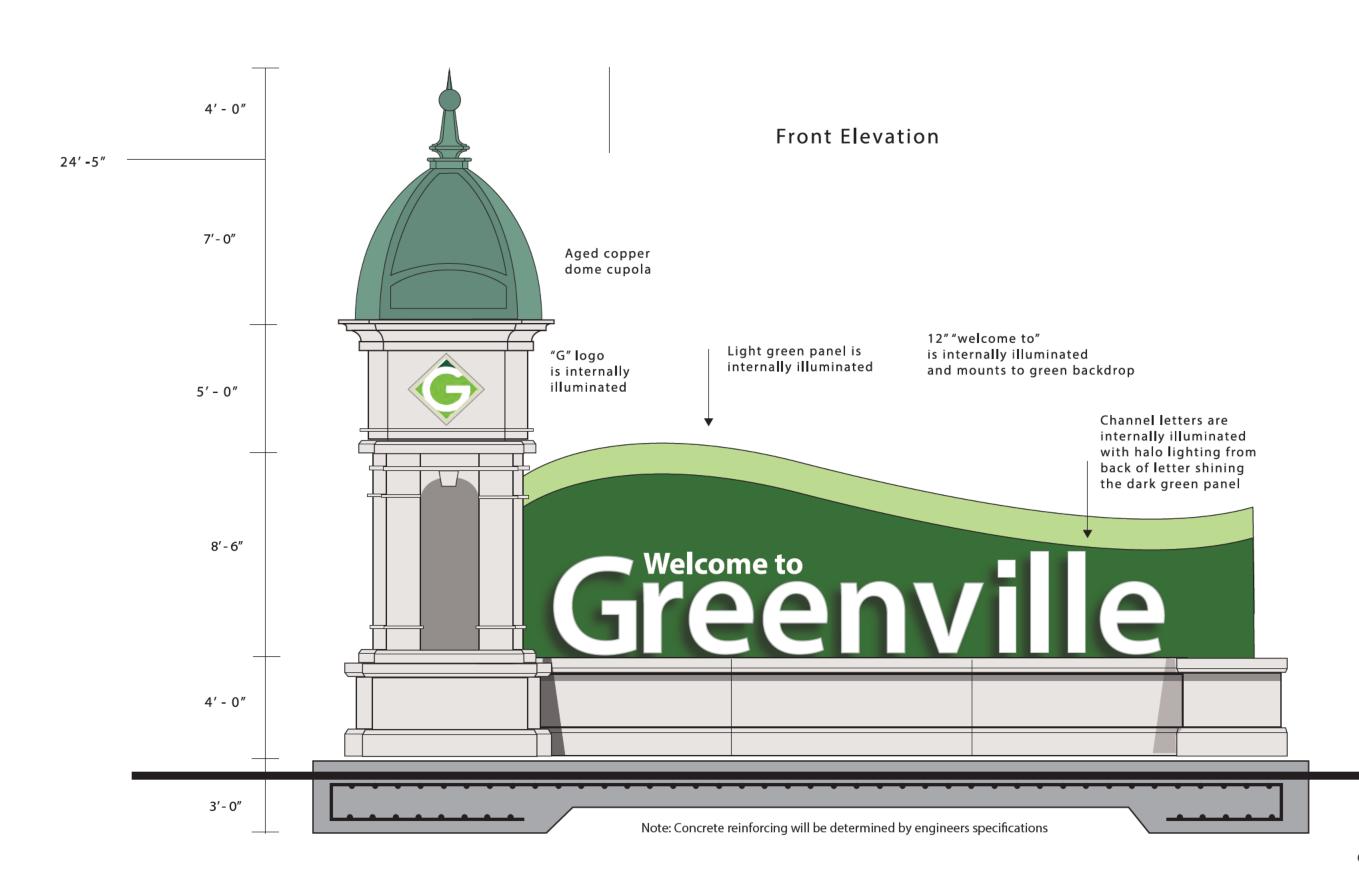
NOTE: LED PANELS BY GLOWBACK LED. CONTROLLER BY SESCO SEE SHEET LI-1. CONTRACTOR TO COORDINATE LIGHTING WITH MANUFACTURERS TO ENSURE COMPATIBILITY.

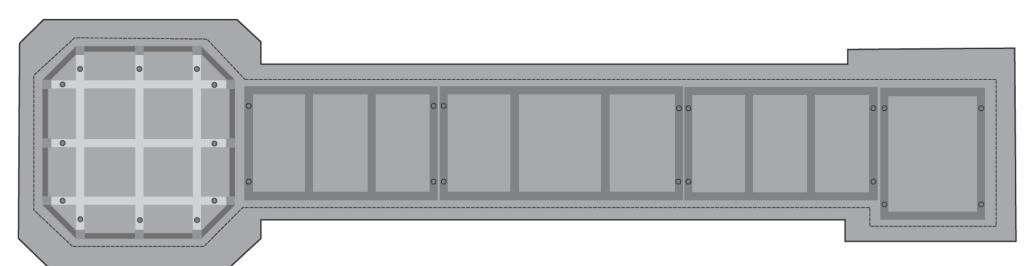


Alternate Design

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







Right Side View Note: Provide access panels on the back of all of the components

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.

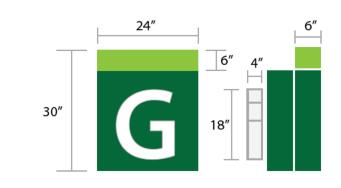
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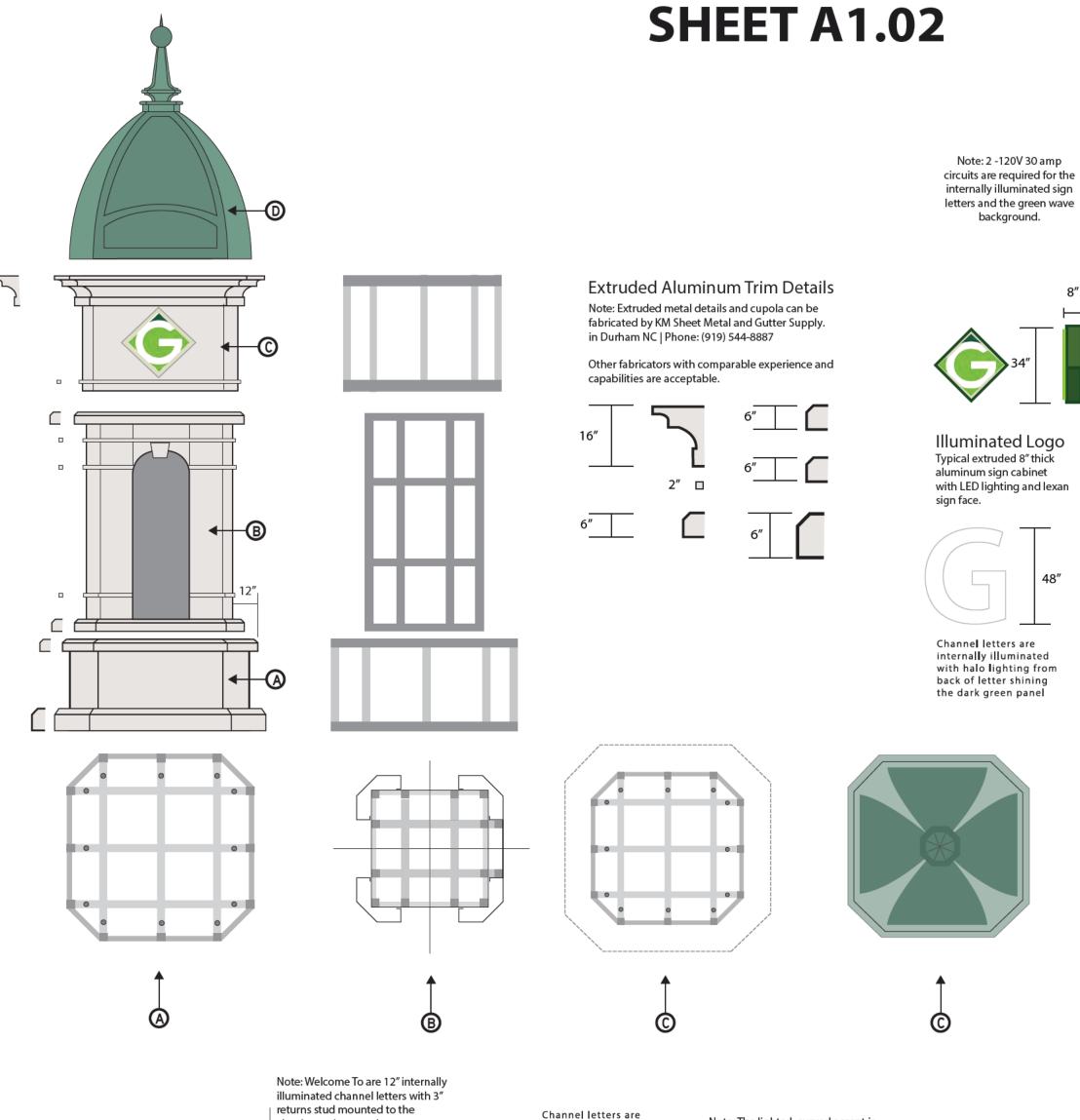
The sign backdrop panels are self supporting fabricated 1/8" aluminum cabinets built in three sections. The lighted, curved accent is fabricated like a channel letter with green translucent sign face.

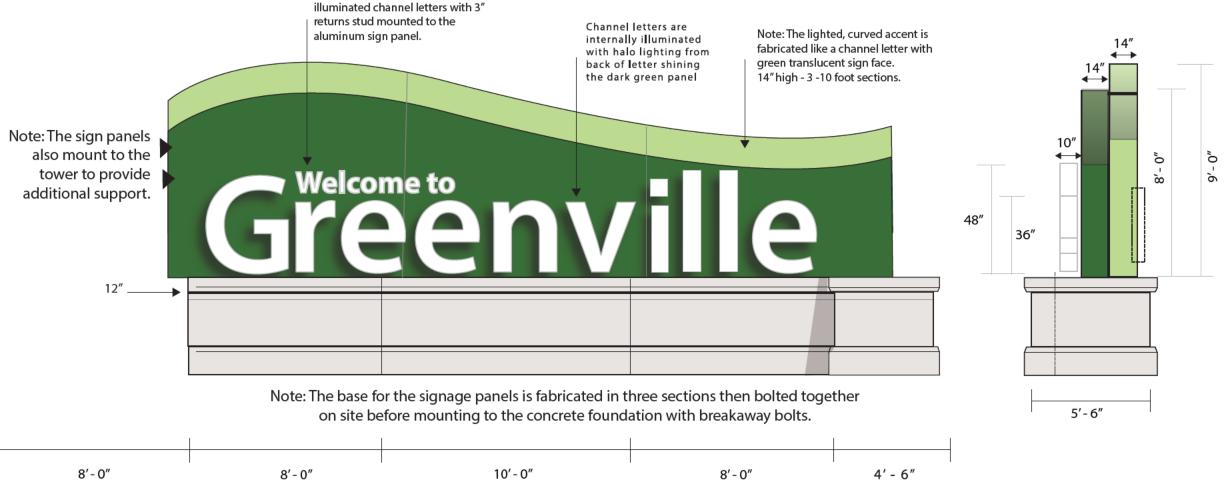
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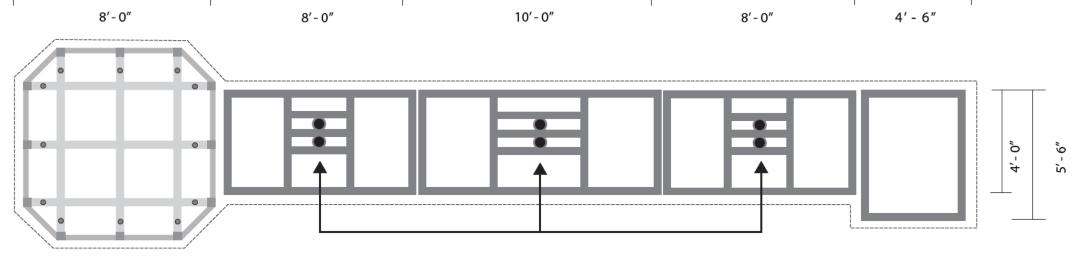
Ensure that condensate line from controller cabinet is routed to the exterior of the back of the sign and is flush with surrounding grade.



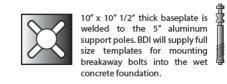








Note: Five inch diameter poles provide wind load support for the backdrop panels.



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 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.



ANSI

ARCH

AMPERES OR AMP METER

ALTERNATING CURRENT

ABOVE FINISHED CEILING

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

ALTERNATE

AMP TRIP

ARCHITECTURAL

CELSIUS; COIL

CD/Cd CANDELA

CEILING

COAX COAXIAL CABLE

CONTR CONTRACTOR

DWG DRAWING

ELEC

FACP

GND

CIRCUIT BREAKER

AMERICAN WIRE GAGE

BELOW FINISHED CEILING

CCTV CLOSED CIRCUIT TELEVISION SYSTEM

BELOW FINISHED GRADE

CURRENT TRANSFORMER

ELECTRICAL CONTRACTOR

ENCLOSED CIRCUIT BREAKER

ELECTRICAL METALLIC TUBING

EMERGENCY POWER OFF

ELECTRIC WATER COOLER

FIRE ALARM CONTROL PANEL

FINISHED FLOOR ELEVATION

FLEXIBLE LIQUIDTIGHT CONDUIT

FLEXIBLE METAL CONDUIT

GENERAL CONTRACTOR

HANDS-OFF-AUTOMATIC

GROUNDING ELECTRODE CONDUCTOR

HVAC HEATING, VENTILATING & AIR CONDITIONING

GROUND FAULT (CIRCUIT) INTERRUPTER

FIRE ALARM TERMINATION CABINET

EXISTNG TO REMAIN

EOUIPMENT GROUNDING CONDUCTOR

CABLE TELEVISION

EXHAUST FAN

ELECTRICAL

EMERGENCY

FLOOR

FLEX FLEXIBLE

FULL LOAD AMPS

FEET; FOOT

GAUGE; GAGE

GROUND BUS

HEAVY DUTY

HORSEPOWER

ISOLATED GROUND

JUNCTION BOX

KILOVOLT AMPERE

KILOWATT HOUR

LIGHT EMMITING DIODE

LOCKED ROTOR AMPS

MOTOR; METERING

MAIN CIRCUIT BREAKER

MOTOR CONTROL CENTER

MOTOR CONTROL PROTECTOR

KILOVOLT

KILOWATT

LIFE SAFETY

METAL CLAD

MCS MOLDED CASE SWITCH

NEC NATIONAL ELECTRICAL CODE

NOT IN CONTRACT

NORMALLY OPEN; NUMBER

OUTDOOR LIGHTING CONTACTOR

NIGHT LIGHT

OVERLOAD

POLE

PHASE

PANEL

PULL BOX

PHOTOCELI POWER FACTOR

NFPA NATIONAL FIRE PROTECTION ASSOCIATION

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

MANHOLE

MLO MAIN LUG ONLY

MIN MINIMUM

N, NEU NEUTRAL

NOM NOMINAL NTS NOT TO SCALE ON CENTER

LIGHTING

IMC INTERMEDIATE METAL CONDUIT

HERTZ

FUSE

AMPERE INTERRUPTING CAPACITY

AUTOMATIC TRANSFER SWITCH

AMERICAN NATIONAL STANDARDS INSTITUTE

ELECTRICAL SYMBOLS ELECTRICAL ABBREVIATIONS ELECTRICAL ABBREVIATIONS

POINT; POTENTIAL TRANSFORMER

POLYVINYL CHLORIDE (CONDUIT)

SNAC SIGNAL NOTIFICATION APPLIANCE CIRCUIT

PER UNIT NAMEPLATE

RATED LOAD AMPS

SURGE PROTECTED

SPDT SINGLE POLE DOUBLE THROW

SPST SINGLE POLE SINGLE THROW

TBB TELEPHONE BACK BOARD

TELECO TELECOMMUNICATIONS

TELEVISION

VOLTAGE; VOLT

TYPICAL

VOLUME

WIRE

WITH

WIREGUARD

IMPEDANCE

WEATHERPROOF

TRANSFORMER

EXPLOSION PROOF

ROUND; DIAMETER; PHASE

TOTAL HARMONIC DISTORTION

UNLESS NOTED OTHERWISE

VOLTS ALTERNATING CURRENT

VARIABLE FREQUENCY DRIVE

VOLTS DIRECT CURRENT

UNDERWRITERS LABORATORIES INC.

SURGE PROTECTED DEVICE

RMC RIDGID METAL CONDUIT

SOLID NEUTRAL

ROUND

SPEC SPECIFICATION

SQUARE

SWBD SWITCHBOARD SWGR SWITCHGEAR

TEMP TEMPERATURE

SQ

UNO

VFD

REVISION

•••		
	Θ	WALL MTD LIGHTING FIXTURE AND OUTLET
	\odot	PENDANT LIGHTING FIXTURE AND OUTLET
	0	DOWNLIGHT LIGHTING FIXTURE AND OUTLET
		WALL MTD LIGHTING FIXTURE AND OUTLET
	•	CEILING MTD LIGHTING FIXTURE AND OUTLET
	Ì⊗ı	WALL MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES

 WALL MID LIGHTING FIXTURE AND OUTLET
CEILING MTD LIGHTING FIXTURE AND OUTLET
WALL MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES DIRECTION.
CEILING MTD EXIT SIGN AND OUTLET, DUAL FACE. ARROWS INDICATE

DIRECTION.
EMERGENCY LIGHT BATTERY PACK - TWO HEAD UNIT.
CEILING MOUNTED EMERGENCY BATTERY LIGHT
EMERGENCY LIGHT REMOTE HEAD

D	EMERGENCY LIGHT REMOTE HEAD
> •	GROUND MOUNTED FLOODLIGHT AND OUTLET
□•	AREA LUMINAIR AND STANDARD
S	FLUSH MTD TOGGLE SWITCH, SPST, 20A, 120/277V
s ₂	FLUSH MTD TOGGLE SWITCH, DPST, 20A, 120/277V
S	FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 120/277V

FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 120/277V FLUSH MTD DIMMER SWITCH, 20A, 120/277V FLUSH MTD KEY SWITCH, 20A, 120/277V FLUSH MOUNTED OCCUPANCY SENSOR SWITCH, 20A, 120/277V FLUSH MTD LIGHTED HANDLE TOGGLE SWITCH, SPST, 20A, 120V.

> LIGHT ON WITH OPEN SWITCH FLUSH MTD TOGGLE SWITCH WITH PILOT LIGHT. LIGHT ON WITH CLOSED SWITCH.

TIMED SWITCH CEILING MTD INFRA-RED OCCUPANCY SENSOR SWITCH

CEILING MTD ULTRASONIC OCCUPANCY SENSOR SWITCH CEILING MTD DUAL TECHNOLOGY (IR, U) OCCUPANCY SENSOR SWITCH

FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W ⊕g FLUSH MTD DUPLEX GFCI RECEPTACLE, 20A, 125V, 3W Ðυ

PHOTOCELL

 $X \bigcirc H$

111

FLUSH MTD DUPLEX RECEPTACLE WITH DUPLEX USB OUTLETS, 20A, 125V, 3W FLUSH MTD SINGLE RECEPTACLE, 20A, 125V, 3W

FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, SPLIT WIRED WITH TOP OUTLET SWITCHED.

FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSPLASH OR COUNTERTOP IF NO BACKSPLASH EXISTS. FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED

VERTICALLY 4" ABOVE BACKSPLASH OR COUNTERTOP IF NO BACKSPLASH EXISTS.

WALL MOUNTED POWER DEVICE, REFER TO SCHEDULES FOR MARK FLOOR BOX WITH DEVICE(S). REFER TO SCHEDULES FOR MARK WALL MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK

CEILING MTD DUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W CEILING MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK CEILING MTD DUPLEX RECEPTACLE & TELECOM OUTLET, REFER TO

SCHEDULES FOR MARK CEILING MTD PUBLIC ADDRESS SPEAKER FLUSH MTD VOLUME CONTROL FOR SPEAKER

WALL MTD TELEVISION ANTENNA/ELECTRICAL OUTLET PANELBOARD, 250V LEVEL

PANELBOARD, 600V LEVEL HOMERUN: ARROW HEADS INDICATE NUMBER OF CIRCUITS, LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. SHORT TICK MARKS INDICATE NUMBER OF CURRENT CARRYING PHASE CONDUCTORS. LONG

TICK MARK(S) INDICATE NEUTRAL(S). GROUNDING CONDUCTORS REQUIRED BY SPECIFICATIONS ARE NOT SHOWN. CONDUCTOR SIZES SPECIFIED ON THE PANEL SCHEDULES ARE MANDATORY FOR THE ENTIRE CIRCUIT EXCEPT WHERE SPECIFICATIONS REQUIRE A SIZE INCREASE FOR VOLTAGE DROP. SURFACE METAL RACEWAY WITH DEVICES, LETTER DESIGNATES TYPE

PENDANT MTD, PLUG-IN BUS DUCT WITH PLUG-IN CIRCUIT BREAKER OR FUSIBLE SWITCH AND TAP BOX. DUCT AND SWITCH RATING AS NOTED. TOP # - DEVICE MAXIMUM RATING OR FRAME SIZE

BOTTOM # - FUSE SIZE OR DEVICE SETTING DISCONNECT SWITCH.

COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. SEE SCHEDULE OR NOTE.

FLUSH MTD MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOAD **HEATERS**

MAGNETIC MOTOR STARTER 3 POLE CIRCUIT BREAKER IN ENCLOSURE. NO INDICATES CB RATING.

VARIABLE FREQUENCY DRIVE CONTROLLER, 40" AFF, PROVIDED BY HVAC OR PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL

MAGNETIC CONTACTOR, SIZE PER SCHEDULE JUNCTION, PULL, TAP OR OUTLET BOX (CODE SIZE) TIME CLOCK

MAGNETIC RELAY, SIZE PER SCHEDULE

FLUSH MOUNTED MUSHROOM HEAD PUSH BUTTON FLUSH MOUNTED PUSH BUTTON SUPPLEMENTAL GROUND BAR

ELECTRICAL DEMAND METER SURGE PROTECTION DEVICE

GROUND PER NEC

WALL MTD FIRE ALARM PULL STATION SMOKE DETECTOR, CEILING MTD SMOKE DETECTOR WITH SOUNDER BASE, CEILING MTD

SMOKE DETECTOR, CEILING MTD, MULTI SENSOR CEILING MTD REMOTE ALARM INDICATOR LAMP SMOKE DETECTOR, DUCT MTD (WITH RAIL)

HEAT DETECTOR, CEILING MTD

SMOKE DETECTOR, WALL MTD SMOKE DETECTOR WITH SOUNDER BASE, WALL MTD

WALL MTD HEAT DETECTOR WALL MTD REMOTE ALARM INDICATOR LAMP (RAIL)

WALL MTD HORN TYPE AUDIO/VISUAL APPLIANCE WALL MTD SPEAKER TYPE AUDIO/VISUAL APPLIANCE

WALL MTD CHIME TYPE AUDIO/VISUAL APPLIANCE WALL MTD VISUAL ALARM APPLIANCE

CEILING MTD HORN TYPE AUDIO/VISUAL ALARM APPLIANCE CEILING MTD SPEAKER TYPE AUDIO/VISUAL ALARM APPLIANCE

CEILING MTD CHIME TYPE AUDIO/VISUAL ALARM APPLIANCE CEILING MTD FIRE ALARM VISUAL DEVICE

DOOR HOLDER FIRE ALARM MONITOR MODULE

FLOW SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS TAMPER SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS

POST INDICATOR VALVE FIRE ALARM CONNECTION, VALVE PROVIDED BY FIRE ALARM TEMPERATURE SENSOR

FIRE ALARM CONTROL MODULE OR RELAY CEILING MTD FIRE ALARM SPEAKER

> FIRE ALARM BELL; # INDICATED DIAMETER IN INCHES LINEAR BEAM TRANSMITTER

FIRE ALARM WALL MTD SPEAKER FIREMAN'S 2-WAY TELEPHONE

ISO FIRE ALARM ISOLATION MODULE ASD FIRE ALARM ASPIRATION SMOKE DETECTOR

FAAP

FACP

LINEAR BEAM RECEIVER

DIGITAL ALARM COMMUNICATIONS TRANSMITTER FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL

FIRE ALARM TERMINAL CABINET SUPPLEMENTAL NOTIFICATION APPLIANCE CABINET

DOOR CONTROL ID TAG SECURITY SYSTEM KEYPAD, 60" AFF

ACCESS CONTROL CARD READER SECURITY PANIC BUTTON CCTV SECURITY CAMERA WITH FIXED MOUNT

CCTV SECURITY CAMERA WITH PTZ FEATURES **EMERGENCY TELEPHONE**

MASTER RESCUE ASSISTANCE STATION RESCUE ASSISTANCE STATION RESCUE ASSISTANCE LIGHT **NEW WORK**

EXISTING TO REMAIN EXISTING TO BE DEMOLISHED

ELECTRICAL GENERAL NOTES

ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT. SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE

THEY OCCUR. UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS, MOUNTING HEIGHT OF

DEVICES IS TO BE THE CENTERLINE OF THE DEVICE. 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

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. UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXTURE OR SWITCH DESIGNATES

ELECTRICAL CIRCUITING KEY

X-#,#,# AREA DEVICE HOMERUN

X-# LOCAL DEVICE CIRCUIT

X-#,#,# AREA LIGHTING HOMERUN

DESIGNATION

WHERE INDICATED

—DEVICE AS INDICATED

WHERE INDICATED

DESIGNATION, PER

SWITCHING GROUP

LOCAL LIGHTING CIRCUIT

-SWITCH TYPE AS INDICATED

DESIGNATION INDICATES

DESIGNATION (UNSWITCHED)

TYPE OF LUMINAIRE

-SWITCHLEG BETWEEN

LUMINAIRES

X-#_ EMERGENCY LIGHT FIXTURE

(UNSWITCHED)

CIRCUIT DESIGNATION

X-# EXIT LIGHT FIXTURE CIRCUIT

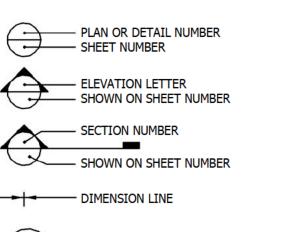
TYPE. SEE FIXTURE SCHEDULE FOR DETAILS. LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CONTROL RELATIONSHIP.

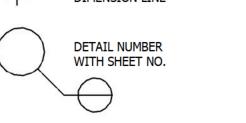
NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRCUIT CONNECTION SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITCHED FOR 24 HOUR

OPERATION

ELECTRICAL DRAWING LIST STANDARDS, SYMBOLS & ABBREVIATIONS E001 E002 ELECTRICAL SPECIFICATIONS ELECTRICAL SITE PLAN E101 E201 ELECTRICAL DETAILS E202 ELECTRICAL SCHEDULES

GENERAL SYMBOLS





ELECTRICAL SYSTEM AND EQUIPMENT

Lighting schedule (each fixture type)

lamp type required in fixture

number of lamps in fixture

number of ballasts in fixture

total wattage per fixture

ASHRAE 90.1: Prescriptive Performance

total interior wattage specified vs. allowed:

total exterior wattage specified vs. allowed:

(When using the 2018 NCECC; not required for ASHRAE 90.1)

C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.7 Reduced Energy Use in Service Water Heating

C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air System

C406.2 More Efficient Mechanical Equipment

(whole building or space by space)

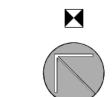
Additional Efficiency Package Options

Prescriptive Performance

ballast type used in the fixture \rightarrow on Drawing Sheet

Method of Compliance:

Energy Code:



APPENDIX B

2018 BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

ELECTRICAL SUMMARY

See fixture Schedule

N/A vs. N/A

48 VA vs. 600 VA



MCADAMS

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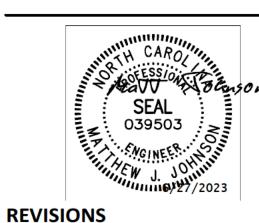
CLIENT

CITY OF GREENVILLE

Salas O'Brien

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PLAN INFORMATION

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

SHEET

STANDARDS, SYMBOLS & ABBREVIATIONS

200 W 5TH ST NUMBER GREENVILLE, NORTH CAROLINA KEYED NOTE PHONE: 252.329. 4521 NUMBER CONNECT TO EXISTING REMOVE TO THIS NORTH **ARROW**

COLUMN NUMBER

DRAWING REVISION

OR LETTER

Scope: The scope of work under this section includes the furnishing and installation of complete electrical distribution system modifications and any other miscellaneous systems or items as are shown on the Drawings or described in these specifications. Work included in this section is described on drawing sheets prefixed with "E-", and any other sheets referenced by these sheets or these

specifications. The Contractor shall provide all supervision, labor, materials, equipment, machinery and any and all other items necessary to complete the described systems. Other Documents: Notice to Bidders, Instructions to Bidders, General Conditions of the Contract, General Requirements, Addenda (if Issued), and Supplementary General Conditions that are provided with the

Drawing package are a part of the Specifications for the electrical work and together with the Electrical Drawings comprise the Contract Documents for the electrical work. Codes, Laws, and Regulations: All work performed under this contract shall be accomplished in strict accordance with National, State, and Local codes.

License & Privilege Permits: The Contractor in submitting his proposal certifies that he has the proper class NC license, privilege permit(s), and any local licenses or privilege permits required for the work

Entire Cost to Owner: The entire cost to the Owner of the work in this section, including any necessary

fees, permits or tax shall be included in the proposal of the Contractor. Construction Permits: The Contractor shall obtain, in a timely manner, all necessary permits to perform the work described by the contract documents at no additional expense to the Owner. The Contractor

shall make all arrangements for required progress inspections. All inspections shall be made in a timely manner; any reinspection necessary to obtain final approval of the work shall be made with no additional cost to the Owner. <u>Intent</u>: The intent of these Specifications and the accompanying drawings is to convey as reasonably as

possible the requirements for a complete job ready for the building to operate. Any apparatus, appliance, material or work not shown on drawings but mentioned in the Specifications or vice versa, or any incidental accessories necessary to make the work complete in all respects and ready for operation, even if not particularity specified, shall be furnished, delivered, and installed by the Contractor without additional expense to the Owner.

<u>Basis of Design</u>: The electrical design for this project is based on the requirements of the National Electrical Code (NEC), NFPA-70, 2020 Edition. Where not restricted to more stringent requirements by the Electrical Specifications or Drawings the minimum requirements of the NEC shall prevail. <u>Drawings</u>: The Drawings are diagrammatic in nature and indicate generally the locations of materials and

equipment. Where such locations are not clear, obtain the exact locations from the Engineer. The Drawings do not give exact details as to elevations and locations of various pipe, ducts, fittings, conduit, etc. and do not show all offsets or installation details which may be required. Where Drawings modify specifications requirements the modification is to be made only in the indicated location. Minor details not usually shown or specified, but necessary for proper installation and operation, shall be included in the Contractor's proposal, the same if herein specified or shown. This paragraph is not intended to hold the Contractor responsible for the design, or to require him to furnish equipment not remotely indicated, but to ensure that a complete job will be provided without requests for minor "extras".

<u>Discrepancies</u>: The Contractor shall give written notice to the Engineer immediately upon discovery of any discrepancy or points of con lict in the Drawings or the Specifications. The Engineer will clarify such discrepancy or points of conflict in writing prior to the progress of the work beyond the point concerned. In the absence of such written notice, it is mutually agreed the Contractor has included the cost of all required items in his proposal and that he will be responsible for the approved satisfactory functioning of the entire system(s) without extra compensation

Shop Drawings: The Contractor shall furnish and a digital copy in pdf format of shop drawings or brochures for all fixtures, equipment, and accessories to the Engineer for the Engineer's approval. The Contractor shall furnish and a digital copy in pdf format of a schedule of manufacturers of all materials for which shop drawings or brochures are not presented. No equipment shall be ordered, purchased or installed prior to approval of the shop drawings, brochures and schedules. Checking of submitted items by the Engineer is only for general conformance with the design concept of the project and general

The Contractor shall maintain a set of "as built" drawings at the construction site at all times that construction work is in progress. The "as built" drawings shall be a set of the contract Drawings which shall be marked in colored pencil by the Contractor to indicate deviations from equipment locations or other changes in the issued Contract Documents. The "as built" drawings shall not be a set of "working drawings", but rather shall be an independent drawing set, updated at the conclusion of each days work. The "as built" drawings shall be available for examination by the Engineer at any time work is in progress; the "as built" set of drawings shall be delivered to the Engineer at the conclusion of the project. Brand Names: Brand names, where used in the specification of a product, are intended to denote the standard of quality required for the particular material or product. tis not the intent of such specification to limit the use of any product to a specific manufacturer. Products by any manufacturer that are equal in type, quality, size, capacity, composition, finish, color, and other applicable characteristics to the material or product specified by trade name and in the opinion of the Engineer, are suitable for the same use and are capable of performing the same function as the material or product specified may be submitted for

<u>Substitutes</u>: If the acceptance of a substitute or if changes by the manufacturer of any item necessitates changes in any plumbing, mechanical, electrical or other service or utility to such item to insure its operation at peak efficiency, the Contractor responsible for the substituted or modified item shall pay the extra costs that accrue to other contractors or to the Owner as a result of such changes made by them to accommodate the substitution of or changes to the specific item. Such extra costs shall be included in the proposal of the contractor responsible for the substituted or modified item. Space required to accommodate proposed substitute equipment, together with accessibility for service and maintenance will be considered in comparing such items for approval.

Contractor to be Responsible: The Contractor shall be responsible for all work included in this section and the delegation of work to a subcontractor(s) shall not relieve him of this responsibility. The Contractor and his subcontractors who perform work under this section shall be responsible to the General Contractor in matters of coordination.

<u>Coordination</u>: The Contractor shall coordinate work with other contractors and shall notify the Engineer of apparent conflicts early to expedite construction. If structural damage seems imminent, work shall be stopped and the Engineer shall be notified for decision before operations are resumed. This shall also apply to site work such as primary and secondary electrical distribution, site lighting, etc. which are the

Site Visitation: Prior to submitting a proposal, the Contractor shall visit the site to familiarize himself with the existing conditions. t is the responsibility of the Contractor to determine the exact point of delivery for the electric power utility, telephone service, and CATV (where such services are modified or installed). Site Cleaning: During construction the Contractor shall keep the site reasonably clean of debris and upon completion of construction he shall clean up the premises to remove all evidence of his work. The Contractor shall provide, at no additional cost to the Owner, additional cleaning of the site as directed by the Engineer. In addition, upon completion of construction, he shall clean, wash and/or polish all fixtures, equipment and exposed material and leave items clean, bright, and without blemish. Damaged items shall be replaced or repaired in a manner satisfactory to the Engineer by the Contractor at no additional cost to the Owner.

Final Inspection and Tests: Final inspection and tests of the completed construction shall take place in the presence of the Engineer's representative and shall be at such times that are convenient to the Engineer. Final tests should show conclusively that all equipment performs its intended and specified function and that all work complies with the provisions of these Specifications. All material, equipment, and instruments required for the tests shall be furnished by the Contractor at his own expense. In addition, the Contractor shall furnish a Certificate of Inspection from the Electrical Inspector prior to acceptance of work by the Owner. The Contractor shall arrange, in a timely manner, for all "in progress" and final inspections by the Electrical Inspector(s).

Operating Manuals and Instructions: Contractor shall furnish to the Engineer, four (4) copies of all operating manuals, instruction books, parts lists, installation drawings, etc., for all items of equipment furnished under his Contract. It shall be the Contractor's responsibility to satisfy the Engineer's requirements regarding such data. Manuals, parts lists, etc., shall be presented to the Engineer for review at least thirty (30) days prior to anticipated date of final inspection. Owner Training: On completion of the work and before final acceptance by Owner, the Contractor shall

have his authorized representative visit the work and give full instructions to Owner's designated operating and maintenance personnel regarding operation, maintenance, care and adjustment of all equipment and special construction elements.

Warranty: This contract includes a one-year warranty on all materials and workmanship from date of acceptance of the installation by the Owner. If, during the warranty period, any defects should become manifest due to any defective materials, workmanship, negligence or want of proper care on the part of the Contractor, the Contractor shall furnish any new materials as necessary, repair said defects, and put the system in order at his own expense on receipt of notice of such defects from the Owner.

All Products to be Listed and Labeled: All products and materials shall be listed and labeled for the specific application by a NC approved testing agency. All products shall be new except where specifically noted otherwise.

Submittals: Submittals shall be in the form of manufacturer's published data showing compliance with the specified requirements. The Engineer reserves the right to require testing of proposed and in-place work or materials in order to confirm compliance with specified requirements. All costs of in-place testing are the responsibility of the Contractor. Submit the following items to the Engineer for approval:

Switchgear & panelboards Boxes & gutters Wiring devices and connectors Overcurrent devices Light Fixtures Raceway & fittings

EQU PMENT SCHEDULES & LOADS

Power Requirements Detailed on Drawings: See Drawings for sizes and descriptions of fixtures,

panelboards, switchgear, etc., as may be required. Equipment Loads from Other Trades: Loads shown on Equipment Schedule(s) of other trades, if used, take precedence in the event of conflict with panel schedule information.

Complete Branch Circuits Required: This contract includes complete branch circuits in accordance with Codes to all electrical components shown on the Electrical Drawings and on the equipment schedule(s) for other trades whether or not breakers for such loads are shown on electrical riser diagram or panel

Service Clearances: Provide service clearances to all equipment, panels, motors and accessories as required by Codes and manufacturer's instructions. If such access is not available due to con licts with the work of other trades, notify Engineer and attempt to work out necessary changes with other trades. In no case shall Contractor bid, submit or install equipment or other components in situations that do not meet Code requirements or manufacturer's installation requirements. Where otherwise impossible to provide access the Contractor shall furnish and install access panels as may be required to service all equipment. All access panels in toilets and shower rooms shall be stainless steel.

GROUND FAULT PROTECTION REQUIRED

GFCI Receptacles: Personnel ground fault protection is to be provided for certain receptacles as may be indicated on the Drawings. Protection is to be provided by the use of GFCI receptacles; the use of GFCI circuit breakers is not acceptable for the protection of general use receptacles. GFCI receptacles may not be used to protect other downstream non-GFCI receptacles.

GFCI Circuit Breakers: Use GFCI circuit breakers to protect equipment or dedicated receptacles in locations as indicated on the panel schedules. GFCI receptacles may not be used to protect downstream circuit components.

W RE AND CONDUCTING COMPONENTS

Conductors: All wire and conducting components shall be copper; aluminum conductors or conducting components are not acceptable.

Feeders: THWN copper Branch Circuits: THWN copper.

Color Codes: All wiring shall be color coded as follows: 120/240 System Voltage 208Y/120

Black Red Orange For each voltage system defined above, grounding conductors shall have green color coding.

For isolated grounding conductors the green color coding shall have a yellow tracer. Insulation may be identified or marked with colored tape or other means only as specifically permitted by the NEC. Where neutrals from different circuits appear in the same junction box or enclosure the neutrals will be distinguished one from another by use of colored tracers as required. A green tracer may not be used for

Conductor Sizes: In general, wire sizes are indicated on the drawings. In all instances wire capacities are to equal or exceed breaker ratings for light, receptacle, appliance, motor and HVAC circuits; this requirement may force the use of larger conductors than would be required by the equipment nameplate. Minimum project wire size is AWG #12. Unreferenced wire sizes are AWG #12. For all circuits with home runs longer than 100 feet in length, the home run conductors shall be increased one wire size. Wire sizes AWG #12 and #10 are to have solid standing.

Combined Runs & Common Neutrals: Conductor and conduit configurations are shown on the Drawings. Conductor and conduit configurations may not be modified without approval in writing from the Engineer. Neutral conductors may not be combined for home runs except as specifically indicated on the Drawings.

PANELBOARDS AND DISTRIBUTION PANELS

Panelboards: Feeder, and distribution panels shall be as indicated on the panel schedules. All panels shall have bolt-on breakers. AIC ratings for feeder and branch circuit breakers are indicated on the panel schedules. All circuit breakers must be fully rated unless series ratings are specifically indicated. All panelboards shall have copper bussing. Panel enclosures are to be furnished without knockouts. Panelboard Schedules: Panelboard circuit breaker and connection schedules are described in the Drawings. Circuit layouts as shown in Drawings are mandatory unless modifications are approved in writing by the Engineer. Panelboard submittals may not be used to modify circuit designations or layouts. Spare Conduit Required: Each lighting and appliance branch circuit panelboard shall have a minimum of two (2) empty 3/4" EMT stubs routed from the top of the panel into the space above the ceiling for future use. This applies only if the ceiling is a non-removable type or if the panel is flush mounted. Each lighting and appliance branch circuit panelboard shall have a minimum of two (2) empty 3/4" EMT stubs routed from the bottom of the panel into the crawl space for future use.

Panelboard Wall Penetrations: All flush mounted panel wall penetrations must be protected in such a manner that the fire rating of the wall is maintained. t is the responsibility of the Contractor to assure that fire and smoke integrity of all walls is maintained at all equipment penetration points. See "Fire Protection Methods" for additional information concerning fire protection.

Raceway Types: Raceways shall be of the types described below for the particular application: Service conductors: Rigid Metallic Conduit (RMC). Grounding Electrode(s) & below slab: RMC.

Feeders: RMC in general or Electrical Metallic Tubing (EMT) where specifically indicated on the Branch Circuits and Other Wiring: Typical wiring is individual conductors routed in EMT. Minimum

conduit size is 3/4" except that 1/2" may be used for runs containing only two (2) current carrying conductors. All branch circuit wiring must be either in RMC or in EMT. Use of Flexible Metal Conduit: Flexible Metal Conduit (FMC) may be used only where specifically permitted in the Drawings or elsewhere in these Specifications. Any such use of FMC is limited to dry

locations in lengths not to exceed 6'-0". Use of Flexible Liquidtight (Metal) Conduit: Flexible Liquidtight (Metal) Conduit (FLC) may be used only where specifically permitted in the Drawings or elsewhere in these Specifications. Any such use of FLC is limited to lengths not to exceed 6'-0".

Raceway Fittings: Fittings shall be steel insulated throat compression type. Set screw fittings, ittings constructed of alloys of aluminum or fittings of the indenter type are not acceptable. Fittings used with rigid conduit shall be of the double threaded steel type where such use is possible.

Routing of Raceway: The Contractor is required to coordinate such routing with others. Exposed raceway shall line up work true to adjacent surfaces and be placed in a workmanlike manner. Raceway shall be run at right angles to building lines; this requirement does not apply to raceway located below concrete placed as a part of this project. Where required, raceway is to be sturdily supported and separated in a manner satisfactory to Engineer; raceway shall not be supported by the ceiling grid or ceiling grid support wires. In general all raceway is to be concealed and routed overhead, below the floor, or in walls except in electrical or mechanical equipment rooms. Raceway in such rooms may be surface

JUNCTION, DEVICE, AND PULL BOXES

Device Boxes: Device boxes for use in sheetrock or paneled surfaces shall be of galvanized steel, 4 inches square of a depth necessary to contain the intended device(s) and associated conductors. Boxes shall be sized to have no less than Ithe minimum volume as required by the NEC; boxes must be flush mounted and accommodate device(s) and all wires and connections without crowding. Boxes shall be furnished with a suitable plaster ring of the depth required to match the wall (or ceiling) material. Where the surface material or covering is combustible the front edge of the plaster ring shall be absolutely flush with the surface. Where the wall material is non-combustible, the front edge of the plaster ring must be recessed into the wall no further than 3/16" inch. These mounting requirements will be rigidly enforced.

Device boxes for use in masonry walls shall be of the concrete tight masonry type sized for the number of conductors and devices. Provide 1/2" raised cover %%Uand suitable plaster ring for exposed sheet metal device boxes where these boxes are permitted

Junction Boxes: Junction boxes shall be of galvanized steel of size, type, and shape for intended use and having adequate volume as required by NEC. All junction boxes shall be concealed unless specifically permitted elsewhere in these Specifications or on the Drawings. Boxes must be supported from the building structure without dependence on support of conduit. Junction boxes for use with flexible conduit surface extensions shall be mounted at 18" above finished floor level unless otherwise specified in the

Exposed Boxes: Exposed device or junction boxes with one or more Rigid Metal Conduit entries must be cast steel with threaded conduit entries.

Auxiliary Gutters: Auxiliary gutters shall be galvanized steel, weatherproof where used in outside locations. All conduit and conductors in auxiliary gutters and large junction boxes shall meet the bending space and size requirement of the NEC.

Power Distribution Blocks Required: All connections in auxiliary gutters or large junction boxes shall be made by use of power distribution blocks. No "split bolt" or similar connectors shall be used for any conductor splices or taps.

Minor Relocation of Electrical Boxes: If directed by the Engineer, the Contractor shall, without extra charge, make reasonable modifications in the layout as needed to prevent conflict with the work of other trades or for proper execution of the work.

WIR NG DEVICES

Receptacles: Receptacles shall be heavy duty specification grade 3 wire grounding duplex 20 Amp (5-20R), 120 volt, strap mounted receptacles, located 18" above finished floor level unless otherwise indicated on the Drawings. All receptacles shall be of the grounding type and shall be checked for grounding efficiency prior to inspection. A typical receptacle is equal to Hubbell #8300 series. Receptacle color shall be ivory for normal system receptacles and red for receptacles that are supplied by a generator source.

Equipment Servicing Receptacles: The Contractor shall locate 120V receptacles adjacent to HVAC equipment and/or plumbing items as shown on the Drawings. Where used in outdoor locations the receptacle enclosure shall be of the weatherproof type.

<u>Dedicated Receptacles</u>: Dedicated receptacles shall be of the proper type required for the equipment to be used. Field verify the following items for each dedicated receptacle: 1. Maximum circuit breaker size that is allowed to supply the equipment to be used. 2. Requirements for separate grounding conductor in all cases where more than one phase is carried to a receptacle. 3. Proper mounting position for receptacle with respect to equipment to be used. The above information may be obtained from equipment nameplates or from literature supplied with equipment.

<u>Device Plates</u>: Wall plates for all wiring and control devices shall be burnished stainless steel, standard size. Oversized wall plates may not be used. Device plate screws shall be constructed from stainless steel. Provide circuit identification labels as described elsewhere for all receptacle and surface extension box plates. Equivalent wiring devices by Leviton, Bryant, Arrow-Hart, or General Electric or other manufacturer may be submitted for consideration.

Minor Relocation of Electrical Devices: If directed by the Owner or Engineer, the Contractor shall, without extra charge or cost to the Owner, make reasonable modifications in the layout of device locations as needed to prevent conflict with the work of other trades or for proper execution of the work. Where such are used, Owner supplied drawings shall take precedence over the Electrical Drawings regarding building construction, dimensions and arrangement.

Weather Proof While In Use Cover: Weather proof covers shall be Extra Duty rated and shall be poweer

<u>Device Box Wall Penetrations</u>: All wall penetrations at device or equipment locations must be protected in such a manner that the fire rating of the wall is maintained. t is the responsibility of the Contractor to assure that fire and smoke integrity of all walls is maintained at all penetration points. See "Fire Protection Methods" for additional information concerning fire protection.

<u>Lighting Fixtures</u>: Lighting fixtures and lamps shall be furnished and installed as indicated on the drawings in the approximate locations shown. The fixture types shall be as shown on the fixture schedule. The Contractor shall furnish and install all suspension accessories, canopies, hickeys, sockets, holders, reflectors, ballasts, louvers, frames, hangers, and all other items necessary to install fixtures. The Contractor shall install lamps of the size and types indicated in each fixture.

Equipment Grounding (Load Side): All electrical equipment shall be grounded. Grounding on the load side of the main disconnect shall be accomplished by means of a separate insulated grounding conductor sized in accordance with NEC Table 250.122. This conductor shall be run along with the circuit supply conductors. The grounding conductor(s) shall be attached by means of a dedicated screw to a common point in each junction box, cabinet, enclosure, or utilization equipment to which it runs or through which it passes. Grounding methods depending on the continuity of electrical raceway, clips, or mounting screws are not acceptable.

Equipment Grounding (Line Side): All junction boxes, equipment cabinets, or enclosures on the line side of the main disconnect shall be grounded by means of bonding jumpers, sized in accordance with the NEC Table 250.66, connected to the grounded service entrance conductor.

EQU PMENT DENT FICATION

Laminated Nameplates Required: Identify each item of electrical equipment installed under this contract by an etched laminated plastic nameplate in addition to the manufacturer's nameplate. The plastic plate shall clearly identify the item or its intended use. The nameplates shall be fastened securely to equipment. Identify all breakers with raised plastic lettering or by the use of directory cards where provided. Directory cards must be typed and installed in space provided by the manufacturer. Hand printed identification is not acceptable. All circuit breakers in electrical panels shall be identified by typed or printed legend that describes the items served by the circuit breaker.

CONSTRUCTION SITE POWER AND LIGHT NG

Power Distribution: The Contractor shall provide, at the Contractor's expense, all necessary items for electric power distribution for use by the General Contractor and all sub-contractors for the duration of the

Site Lighting: The Contractor shall provide, at no additional cost, necessary luminaries for general Illumination and for task illumination for the duration of the construction.

Insufficient Power or Lighting: Should the lighting level or power distribution in a specific area be deemed insufficient by the Engineer, the Contractor shall provide additional lighting or power distribution as directed by the Engineer; the additional luminaries or distribution circuitry and devices shall be provided at no additional cost to the Owner. All temporary electric construction shall be in full compliance with NEC

Electrical Energy Provided by Owner: A connection point for electric power will be provided by the Owner in the construction area. Electric energy is provided by the Owner.

The John R. McAdams Company, Inc.

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1620 Midtown Place Raleigh, NC 27609 919-832-8118 salasobrien.com license (NC): F-1434

ROLIN REENVII GRE



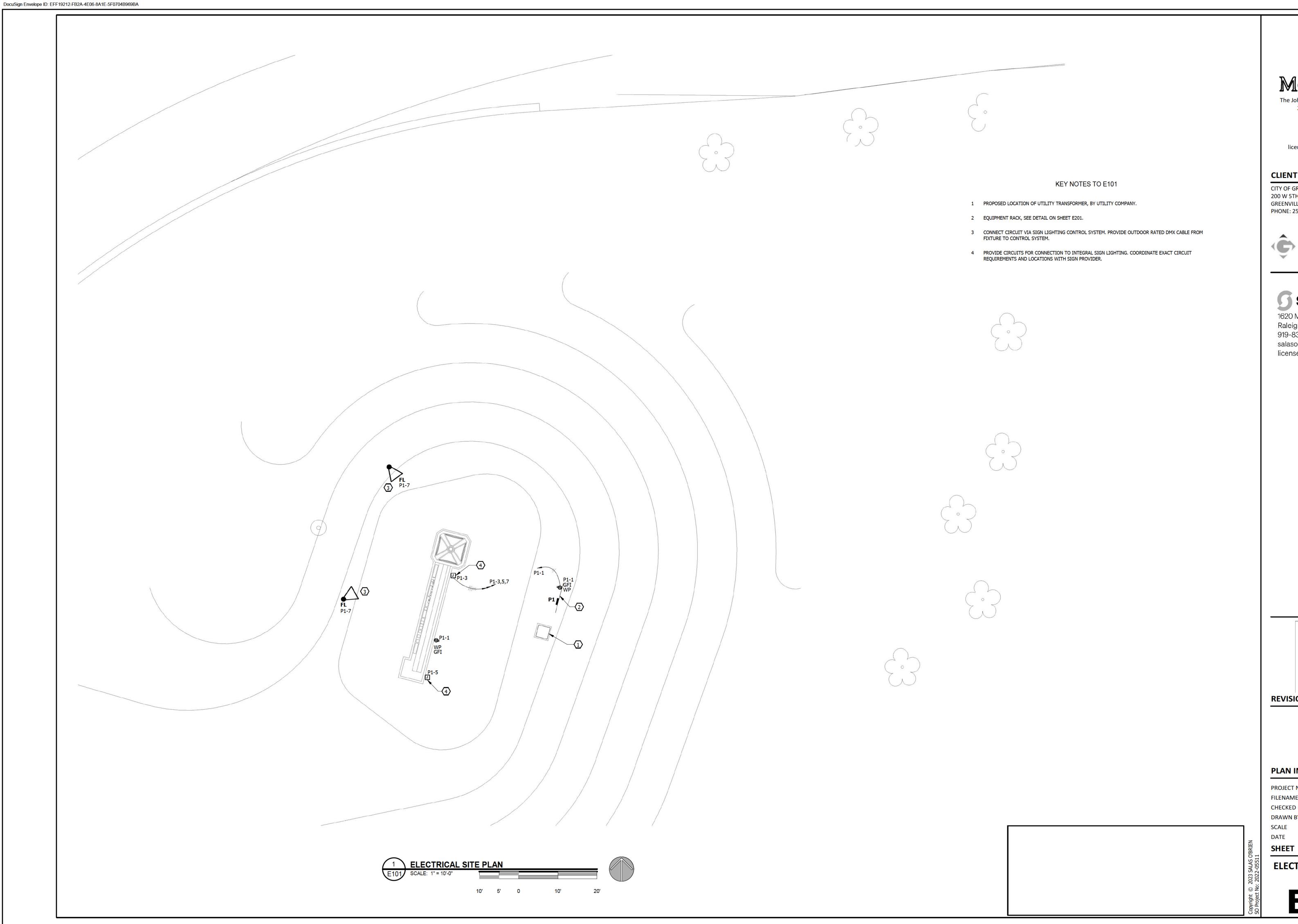
PLAN INFORMATION

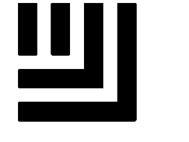
REVISIONS

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

SHEET

ELECTRICAL SPECIFICATIONS





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

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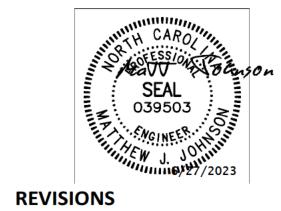
CITY OF GREENVILLE 200 W 5TH ST GREENVILLE, NORTH CAROLINA PHONE: 252.329. 4521



Salas O'Brien

1620 Midtown Place Raleigh, NC 27609 919-832-8118 salasobrien.com license (NC): F-1434

GREENVIL GREENVILLE



PLAN INFORMATION

PROJECT NO. GVL21001 CHECKED BY MJJ

06.28.2023

ELECTRICAL SITE PLAN

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

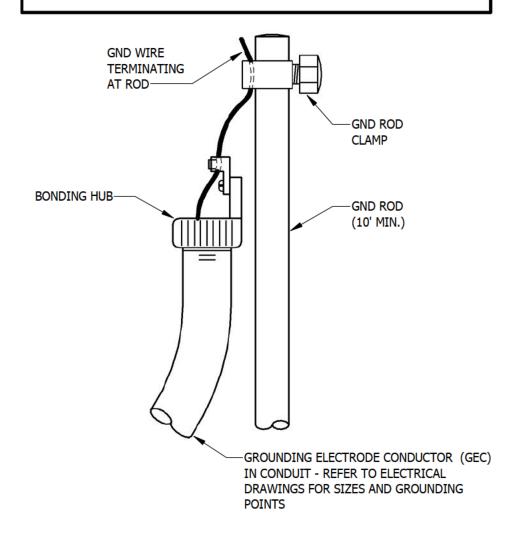
- WRITE PANEL DESIGNATION NUMBER ON DEVICE YOKE WITH A FINE TIP, PERMANENT MARKER AS AN AID TO PROPER FACEPLATE LOCATION. ALL MARKING ON DEVICES MUST BE COVERED BY FACEPLATE.
- FOR DUPLEX RECEPTACLES CENTER LABEL IF BOTH DEVICES ARE SUPPLIED BY THE SAME CIRCUIT. IF DEVICES ARE SUPPLIED BY DIFFERENT CIRCUITS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

SW DETAIL: LA0002



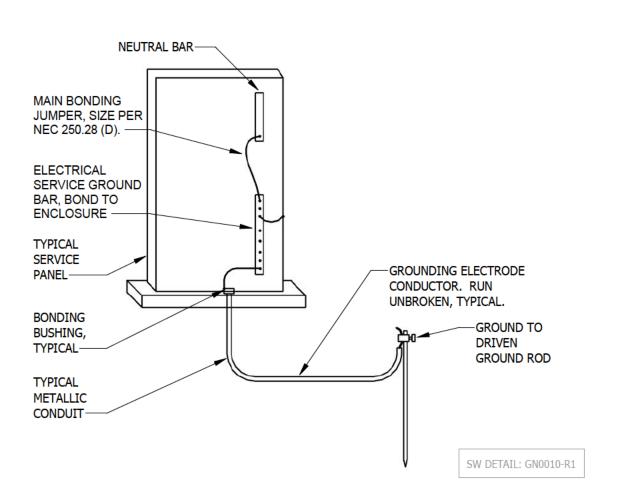


- FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DRIVING GROUND RODS.
- <u>DO NOT</u> USE POWER ASSISTED TOOLS TO DRIVE GROUND RODS.

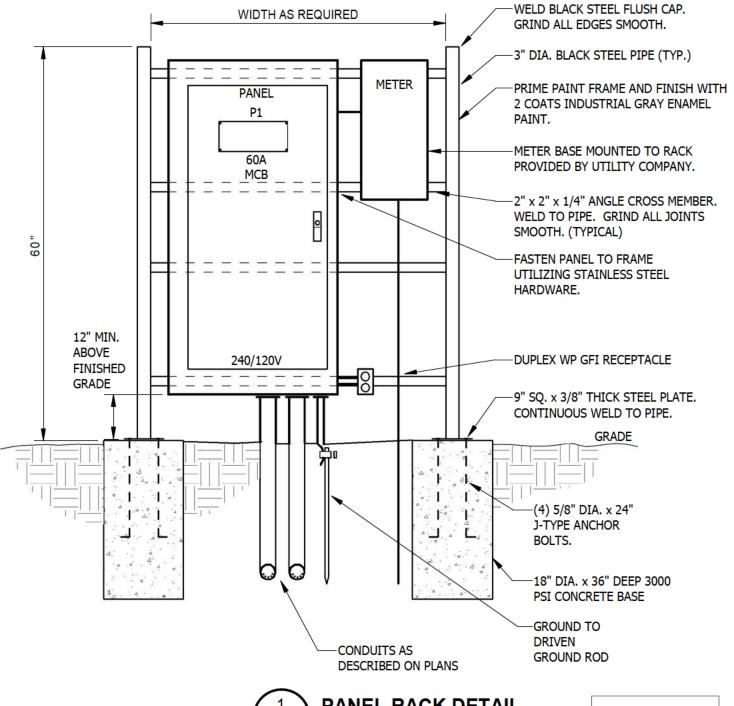


SW DETAIL: GN0004-R1

GROUND ROD CONNECTIONS SCALE: NTS



SERVICE GROUNDING AND BONDING SCALE: NTS



PANEL RACK DETAIL SCALE: NTS

SW DETAIL: OC0023

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:

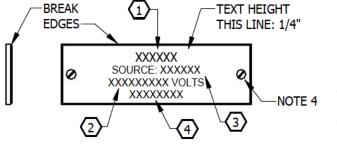
NORMAL SYSTEM: BLACK BACKGROUND/WHITE LETTERS

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:

- 1 INSERT EQUIPMENT DESIGNATION WHERE X'S ARE INDICATED.
- 2 INSERT VOLTAGE WHERE X'S ARE INDICATED. POSSIBLE VOLTAGES ARE:

"120/240, 1ø"

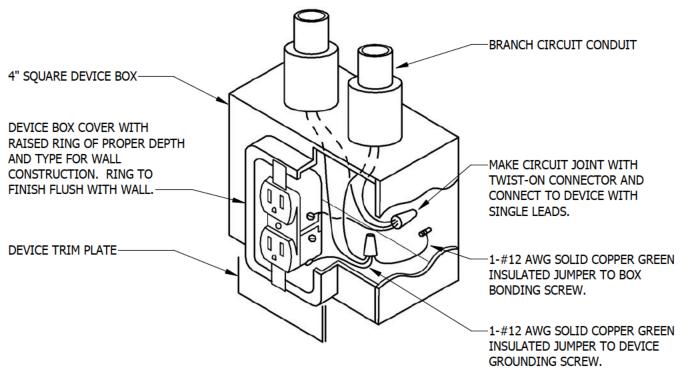


- 3 INSERT SUPPLY SOURCE DESIGNATION HERE.
- 4 INSERT SUPPLY SYSTEM WHERE X'S ARE INDICATED POSSIBLE

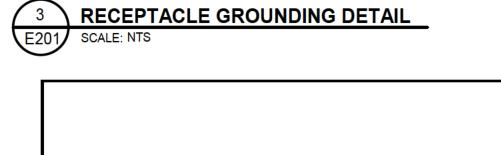
"NORMAL POWER"



SW DETAIL: LA0003 R1

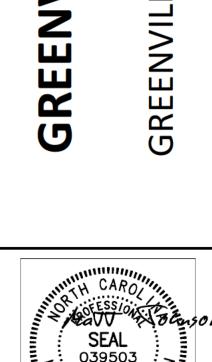


SW DETAIL: GE0033



SCALE DATE

> SHEET **ELECTRICAL DETAILS**



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GREENVILLE, NORTH CAROLINA

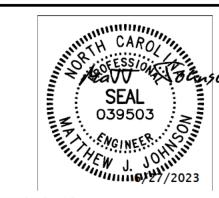
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200 W 5TH ST



REVISIONS

PLAN INFORMATION

PROJECT NO. GVL21001 GVL21001-LS1 FILENAME CHECKED BY Checker

DRAWN BY Designer PER PLAN 06.28.2023

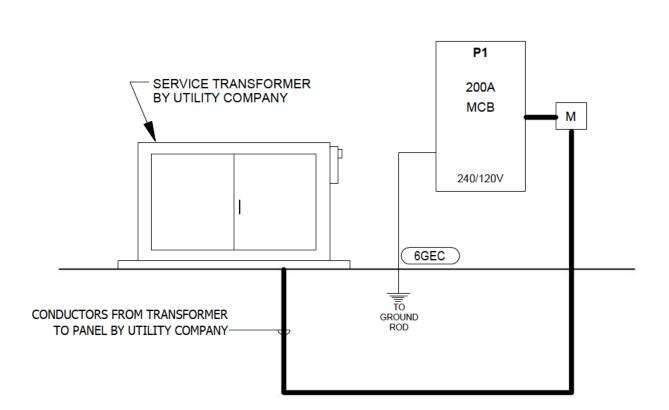
PANEL ID:	P1				'	VOLTA	GE:	120	/240	S	SERVICE	EQUIP:	Yes						M	OUNTING:	Surface
SOURCE:	UTIL	ITY			-	AMPS:		200)	N	//AIN:		MCB						T	YPE:	BOLT ON
LOCATION:	RACI	K MC	DUNTE)	ı	PANEL	AIC	: 22 ,	000	A	APPROX	C. DIM:	20" V	V X 5.	75" C) X 5	60" H				NEMA 3R
.OAD		NO TE	COND	Phase	e, Ne Size	u, Grd	PO LE	BKR	скт		4	В	1	СКТ	BKR	PO LE	Phase, Neu, Grd Size	COND	NO TE	LOAD	
REC			3/4	1-#12,	1-#12	2, 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	
IGHTING - EXTERIOR				1-#12,	1-#12	2, 1-#12	1	20	7			48		8		1				SPACE	
UTURE 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	
											0 VA ' A	2926 24 A	VA								
oad Classification							C	onnec	ted Lo	ad	Dem	and Factor	Es	Estimated Demand		Pan		anel	Totals		
Power								576	O VA		1	100 00%		576	0 VA						
REC								360) VA		1	100 00%		360) VA		CONNEC	TED LO	AD	6166 VA	
ighting - Exterior								48	VA		1	25 00%		60	VA		DEM	IAND LO	AD	6177 VA	
																	AVG. CONNECTED				
																	AVG. DEMAND				

	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:

- 1. 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.
- 2. 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.
- 3. UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.
- 4. PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. <u>CONTRACTOR IS RESPONSIBLE</u> FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.
- 5. PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE PLANS.
- 6. ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.
- 7. UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.
- 8. ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.

SW DETAIL: IN0011 LED





GENERAL NOTES TO POWER RISERS:

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

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

NOTES TO FEEDER SCHEDULE:

- ALL AMPACIT ES ARE BASED ON 75° C. RATING. CONTRACTOR IS RESPONSIBLE FOR THE MOD FICATION 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 EXIST NG 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 DRAW NGS, IS TO BE DETERMINED BY USE CONDITIONS.



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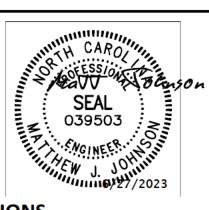
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GREENVIL



REVISIONS

PLAN INFORMATION

PROJECT NO. GVL21001 GVL21001-LS1 FILENAME CHECKED BY Checker Designer

DRAWN BY PER PLAN SCALE DATE 06.28.2023

SHEET **ELECTRICAL SCHEDULES**

PROVIDE A BONDING BUSHING AT THE EQUIPMENT END OF THIS CONDUIT RUN AND A BONDING HUB AT THE CONNECTION TO THE GROUNDING ELECTRODE.

1. GENERAL

- 1.01. THE STRUCTURE IS DESIGNED AND MEETS THE DESIGN CRITERIA OF THE FOLLOW NG CODES AND STANDARDS: 2018 NORTH CAROLINA STATE BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH CHANGES) ASCE 7-10, MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES AISC 360-10, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - ALL OTHER REFERENCED CODES OR STANDARDS SHALL REFER TO THE EDITION OF THE CODE/STANDARD ENFORCED AT THE TIME THE STRUCTURAL CONTRACT DRAWINGS ARE ISSUED FOR PERMIT.
- 1.02. ALL METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE, AS DEPICTED ON THE CONTRACT DRAWINGS, IS STRUCTURALLY STABLE IN IT'S COMPLETED FORM: BRACING. SHORING. OR OTHER ADDITIONAL SUPPORT MAY BE NECESSARY TO ENSURE STRUCTURAL STAB LITY DURING VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND PROVIDE ALL NECESSARY BRACING OR SHOR NG, TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 1.03. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE. THE STRUCTURAL DRAW NGS SHALL NOT BE CONSIDERED SEPARATLEY FOR PURPOSES OF B DDING THE STRUCTURAL WORK.
- SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTA NED BY DIRECT SCALING OF THE DRAW NGS. THE CONTRACTOR SHALL VERIFY ALL EXIST NG DIMENSIONS RELEVANT TO ALL NEW CONSTRUCTION AND DEMOLITION, PRIOR TO COMPLETION OF SHOP DRAWINGS OR COMENCEMENT OF WORK. ANY EXIST NG DIMENSIONS IN CONTRADICTION TO WHAT IS SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS SHALL BE REPORTED TO DRYE-MCGLAMERY ENGINEERING PROMPTLY.
- 1.05. IN ANY INSTANCE OF CONFLICT BETWEEN THE STRUCTURAL CONTRACT DRAW NGS OR SPECIFICATIONS, THE MOST STR NGENT REQUIREMENT SHALL BE ADHERED TO. ALL REQUEST FOR CLAR FICATION AS TO WHICH REQUIREMENT WILL CONTROL SHALL BE DIRECTED TO DRYE-MCGLAMERY ENGINEERING. IN NO CASE SHALL THE CONTRACT DOCUMENTS OR SPEC FICATIONS BE DEVIATED FROM WITHOUT THE CONSENT OF DRYE-MCGLAMERY ENGINEER NG.
- 1.06. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORM NG ALL INSPECTIONS AND SPECIAL INSPECTIONS. AS REQUIRED BY THE BUILDING CODE AND AUTHORITY HAVING JURISDICTION.
- 1.07. ALL PRODUCT DATA, SHOP DRAWINGS, AND OTHER SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF THE RELEVANT STANDARD AND/OR SPECIFICATION ENFORCED IN THE BUILDING CODE AT THE TIME PERMITS ARE ISSUED. IN ANY INSTANCE OF CONFLICT BETWEEN VERSIONS OF A STANDARD/SPECIFICATION REFERENCED IN THE STRUCTURAL DRAWINGS AND THE BUILDING CODE, THE CODE REFERENCED VERSION SHALL BE ADHERED TO.

2 MATERIAL STRENGTUS

<u>Z.</u>	MATERIAL STRENGTHS		
2.01.	CONCRETE (COMPRESSIVE STRENGTH, fc AT 28 DAYS) FOUNDATIONS. * CONCRETE EXPOSED TO WEATHER SHALL BE A R ENTRAINED *	5,000 PSI	MAX w/c RATIO 0.45
2.02.	REINFORCING STEEL (MINIMUM SPEC FIED YIELD STRESS, Fy) REBAR (ASTM A615 GRADE 60)	60,000 PSI 65,000 PSI	
2.03.	STRUCTURAL STEEL (MINIMUM SPEC FIED Y ELD STRESS, Fy) PIPE (ASTM A53 GRADE B)	35,000 PSI 36,000 PSI 70,000 PSI (F	- EXX)
2.04.	SO L/SUBGRADE PROPERTIES ALLOWABLE SO L BEARING PRESSURE (a)	1.5	500 PSE (ASSUMED)

- SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO DRYE-MCGLAMERY ENG NEER NG FOR REVIEW, AS REQUIRED PER PROJECT SPEC FICATIONS, SUBMITTALS SHALL NCLUDE: - CONCRETE REBAR SHOPS
 - SIGN/TOWER FABRICATION AND ANCHORAGE DRAWINGS
- 3.02 DRYE-MCGLAMERY ENG NEER NG SHALL HAVE 15 DAYS AFTER THE DATE OF RECE PT OF THE SUBMITTAL FOR REVIEWING AND COMMENTING ON ANY SUBMITTALS.
- 3.03. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL REVIEW SUBMITTALS PRIOR TO SUBMITTING THEM TO DRYE-MCGLAMERY ENG NEER NG. HIGHLIGHT, CLOUD, OR OTHERWISE NDICATE ITEMS THAT DEVIATE FROM THE CONTRACT DOCUMENTS ON THE SUBMITTAL.

4. FOUNDATION AND SLAB ON GRADE

- THE FOUNDATION HAS BEEN DESIGNED FOR A PRESUMED ALLOWABLE SOIL BEAR NG PRESSURE OF 1.500 POUNDS PER SQUARE FOOT (PSF). THE ALLOWABLE SO L BEARING PRESSURE SHALL BE VER FIED IN THE FIELD BY THE OWNERS SPECIAL NSPECTOR.
- 4.02. ALL FOOTINGS SHALL BEAR ON ORIGINAL, UNDISTURBED SOIL OR APPROVED ENG NEERED COMPACTED FILL, BUT NOT HIGHER THAN THE MINIMUM DEPTH SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF COMPACTED STONE BELOW ALL FOOTINGS AND SLAB ON GRADE, UNLESS NOTED OTHERWISE ON
- 4.03. ALL SLABS ON GRADE SHALL BEAR ON ORIG NAL, UNDSITURBED SO L OR APPROVED ENGINEERED COMPACTED F LL. CONTRACTOR SHALL PROVIDE A M NIMUM 4" THICK LAYER OF COMPACTED STONE BELOW ALL SLABS ON
- 4.04. CONTRACTOR TO KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL T MES DURING THE FOUNDATION CONSTRUCTION. CONTRACTOR SHALL DEWATER WHERE REQUIRED PRIOR TO ANY EXCAVATION WORK BEING DONE. ALL UNSUITABLE OR DELETERIOUS SO LS OR MATERIAL SHALL BE REMOVED FROM THE EXISTING GROUND SURFACE PRIOR TO ANY EXCAVATION WORK BE NG DONE.
- 4.05. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THE DESCRIBED ASSUMED VALUES SHOWN ON THE CONTRACT DRAWINGS OR HIGHLIGHTED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO DRYE-MCGLAMERY ENGINEERING, BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

5. REINFORCED CONCRETE

- THE OWNER'S SPECIAL INSPECTOR SHALL VER FY THAT CONCRETE WORK AND RE NFORCEMENT ARE FABRICATED AND PLACED IN CONFORMITY WITH THE APPLICABLE EDITION OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, THESE DOCUMENTS, AND WITH ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE. THE CONTRACTOR SHALL NOTIFY THE TEST NG AGENCY WHEN WORK REINFORC NG STEEL IS TIED IN ITS FINAL LOCATION FOR VERIFICATION PRIOR TO POURING ANY CONCRETE.
- 5.02. THE CONTRACTOR SHALL SUBMIT ALL CONCRETE MIXES TO DRYE-MCGLAMERY ENG NEER NG FOR REVIEW ALONG WITH STANDARD ACI STRENGTH DOCUMENTATION, PRIOR TO USE.

5.03.	CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER:			
	CONCRETE POURED ON EARTH OR GROUND.	3 N.		
	CONCRETE EXPOSED TO WEATHER			
	#6 THROUGH #18 BARS			
	#5 BAR, W31 OR D31 WIRE AND SMALLER	1 1/2 N.		
	CONCRETE NOT EXPOSED TO EARTH OR WEATHER			
	#14 AND #18 BARS	1 1/2 N.		
	#11 BAR AND SMALLER	1 N.		

- 5.04. SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED SO THAT THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER AND THEY DO NOT DISPLACE REINFORC NG STEEL
- 5.05. DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, WITHOUT PRIOR APPROVAL OF DRYE-MCGLAMERY ENGINEERING.
- 5.06. BARS SHALL BE SPLICED PER DETA LS WHERE PROVIDED. OTHERWISE BARS SHALL BE CLASS "B" LAP SPLICED IN LONGEST CONVENIENT LENGTHS WITH ADJACENT LAPS STAGGERED 3'-0" M N MUM. BARS SHALL BE CONTACT SPLICED OR SPACED A M N MUM DISTANCE APART PER CRSI "REINFORCEMENT ANCHORAGES AND SPLICES", AND A MAXIMUM DISTANCE APART OF THE LESSER OF, 1/5 THE LAP LENGTH OR 6 INCHES.
- 5.07. CLEAR SPACING BETWEEN REBARS (UNLESS SHOWN TO BE CONTACT LAP SLICED) SHALL BE A MINIMUM OF 1-1/2 BAR DIAMETER, 1-1/2", OR 1-1/3 T MES THE AGGREGATE SIZE, WHICHEVER IS GREATER.
- 5.08. ALL HOOKS NOT NOTED SHALL BE ACI STANDARD HOOKS.
- 5.09. NO TACK WELDING WILL BE PERMITTED ON GRADE 40 OR 60 STEEL

5. REINFORCED CONCRETE (CONT'D.)

- 5.10. ANCHOR BOLTS SHALL BE SET AND CONCRETE BEARING SURFACE FOR COLUMNS SHALL BE F NISHED TO THE FOLLOW NG TOLERANCE:
 - ELEVATION OF CONCRETE SURFACE PLUS OR M NUS 3/8" ELEVATION TOP OF ANCHOR BOLTS PLUS 1" TO M NUS 3/8"
 - OUT OF POSITION OF ANCHOR BOLTS PLUS OR M NUS 1/8".
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND D MENSIONS OF CONCRETE REVEALS, NOTCHES, REGLETS, DRIPS, PADS, CURBS, CHAMFER BLOCKOUTS AT DOORWAYS, AND ALL OTHER PROJECT
- REQU REMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. GROUT FOR BASE PLATES SHALL BE NONSHRINKABLE, NON-METALLIC CONFORMING TO ASTM C827, AND SHALL

HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PREGROUTING OF BASE PLATES W LL NOT

- BE PERMITTED. GROUT BASEPLATES AFTER TORQUE IS ACH EVED ON ALL ANCHOR BOLTS. 5.13. ALL POST-INSTALLED EPOXY ANCHORS SHALL BE NSTALLED IN ACCORDANCE WITH ALL EPOXY ANCHOR SYSTEM MANUFACTURER'S REQUIREMENTS. WHERE POST-INSTALLED EPOXY ANCHORS ARE USED, CONCRETE SHALL BE
- ALLOWED TO ADEQUATELY CURE PRIOR TO DRILL NG OF ANCHOR HOLES, OR INSTALLATION OF ANCHORS. N NO INSTANCE SHALL WATER BE ADDED TO CONCRETE MIXES ON SITE. IF A MORE EASILY WORKABLE CONCRETE IS DESIRED, THE CONTRACTOR SHALL REQUEST A HIGH-RANGE WATER REDUCER, OR SUPERPLASTICIZER, BE
- ALL CONCRETE MIXES SHALL MEET THE REQUIREMENTS FOR THE ASSIGNED EXPOSURE CLASS, PER ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY. REFER TO THE PROVIDED TABLE FOR ALL EXPOSURE CLASSES, BY EXPOSURE CATEGORY, FOR EACH STRUCTURAL CONCRETE ELEMENT. IN ANY INSTANCE OF UNCERTAINTY AS TO THE EXPOSURE CLASS FOR A STRUCTURAL CONCRETE ELEMENT, THE CONTRACTOR OR CONCRETE SUPPL ER SHALL CONTACT THE ENGINEER OF RECORD (DRYE-MCGLAMERY ENG NEER NG) TO CONFIRM THE CONTROLLING EXPOSURE CLASS, PRIOR TO POURING ANY CONCRETE.

ADDED TO THE CONCRETE MIX PRIOR TO ORDERING OR POUR NG THE CONCRETE

- CONCRETE EXPOSUED TO WEATHER SHALL BE A R ENTRAINED WITH 4% 6% AIR ENTRA NMENT. REFER TO THE ASSIGNED EXPOSURE CLASS FOR ADDITIONAL NFORMATION AND REQUIREMENTS FOR AIR ENTRA NMENT FOR CONCETE ELEMENTS.
- THE CONTRACTOR SHALL TAKE CAUTION TO ENSURE ALL REQUIRED REINFORCED CONCRETE SPECIAL NSPECTIONS ARE COMPLETED, ONCE THE RELEVANT CONCRETE ELEMENTS ARE INSTALLED. REFER TO THE SPECIAL INSPECTION TABLES OR THE BULD NG CODE FOR ALL REQUIRED REINFORCED CONCRETE SPECIAL NSPECTIONS.

REINFORCED CONCRETE MINIMUM BAR DEVELOPMENT LENGTHS		REINFORCED CONCRETE MINIMUM LAP SPLICE LENGTHS			
BAR SIZE	TENSION LENGTH	COMPRESSION LENGTH	BAR SIZE	TENSION SPLICE	COMPRESSION SPLICE
#4 (1/2"Ø)	24 INCHES	10 NCHES	#4 (1/2"Ø)	30 NCHES	16 INCHES
#6 (3/4 " Ø)	34 INCHES	14 NCHES	#6 (3/4"Ø)	44 NCHES	24 INCHES
#8 (1"Ø)	56 INCHES	20 NCHES	#8 (1"Ø)	72 NCHES	30 INCHES
*NOTE: FOR HOOKED BARS, DEVELOPMENT LENGTHS MAY BE LESS THAN SHOWN IN TABLE. FOR BARS WITH STANDARD HOOKS N TENSION, THE DEVELOPMENT LENGTH OF BARS SHALL NOT BE			*NOTE: ALL TENSION LAP SPLICES SHALL BE NO LESS THAN 1.3 TIMES THE BAR DEVELOPMENT LENGTH. ALL COMPRESSION LAP SPLICES SHALL BE NO LESS THAN 40		

REINFORCED CONCRETE EXPOSURE CLASSES					
RE NFORCED CONCRETE ELEMENT	FREEZE-THAW CLASS	SULFATE CLASS	WATER-CONTACT CLASS	CORROSION CLASS	
FOUNDATIONS	F2	S0	W0	C0	

T MES THE BAR DIAMETER.

STRUCTURAL STEEL

LESS THAN 25 BAR DIAMETERS.

- FABRICATOR QUALIFICATIONS: ENGAGE A FIRM EXPERIENCED IN FABRICATING STRUCTURAL STEEL SIMILAR TO THAT INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO FABRICATE STRUCTURAL STEEL WITHOUT DELAYING THE WORK.
- FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. SET STRUCTURAL STEEL ACCURATELY IN LOCATIONS AND TO ELEVATIONS NDICATED AND ACCORDING TO THE AISC SPEC FICATIONS REFERENCED IN THIS SECTION.
- PRIOR TO GROUTING, COLUMNS SHALL BE ERECTED AND ALIGNED AS TO PLUMBNESS AND ELEVATION BY MEANS OF STEEL SHIMS OR LEVELING NUTS UNDER THE BASE PLATES. SETTING PLATES SHALL ONLY BE USED AS TEMPLATES TO LOCATE ANCHOR BOLTS DURING CONCRETE PLACEMENT.
- SPLIC NG OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROH BITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
- STEEL MEMBERS, FABRICATIONS, AND ASSEMBLIES INDICATED ON THE DRAWINGS TO BE GALVANIZED SHALL BE GALVANIZED AFTER FABRICATION BY HOT DIP PROCESS IN ACCORDANCE WITH ASTM A123. WEIGHT OF ZINC COATING TO CONFORM TO THE REQUIRMENTS SPECIF ED UNDER "WEIGHT OF COATING" IN ASTM A123 OR ASTM A386, AS APPLICABLE. THE AFFECTED PORTIONS OF FIELD WELDED GALVANIZED ASSEMBL ES SHALL BE FIELD PAINTED WITH CORROSION RESISTANT PAINT.
- 6.06. THE CONTRACTOR SHALL TAKE CAUTION TO ENSURE ALL REQUIRED STEEL SPECIAL INSPECTIONS ARE COMPLETED, ONCE THE RELEVANT STEEL MEMBER/CONNECTION ELEMENTS ARE FULLY ERECTED AND INSTALLED. REFER TO THE SPECIAL INSPECTIONS TABLES OR THE BUILDING CODE FOR ALL REQUIRED STEEL SPECIAL NSPECTIONS.
- 6.07. ALL STRUCTURAL STEEL WELDING SHALL CONFORM TO AWS D1.1 STRUCTURAL WELD NG CODE STEEL. ALL WELD FILLER METALS SHALL CONFORM TO AN APPROVED AWS SPECIFICATION LISTED IN AISC 360 AND AWS D1.1, ALL FILLER METALS SHALL BE E70xx (70 KSI), UNLESS NOTED OTHERWISE.
- ALL ANCHOR RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554, UNLESS NOTED OTHERWISE THREADS ON ANCHOR RODS AND THREADED RODS SHALL CONFORM TO THE UNIFIED STANDARD SERIES OF ASME B18.2.6 AND SHALL HAVE CLASS 2A TOLERANCES.

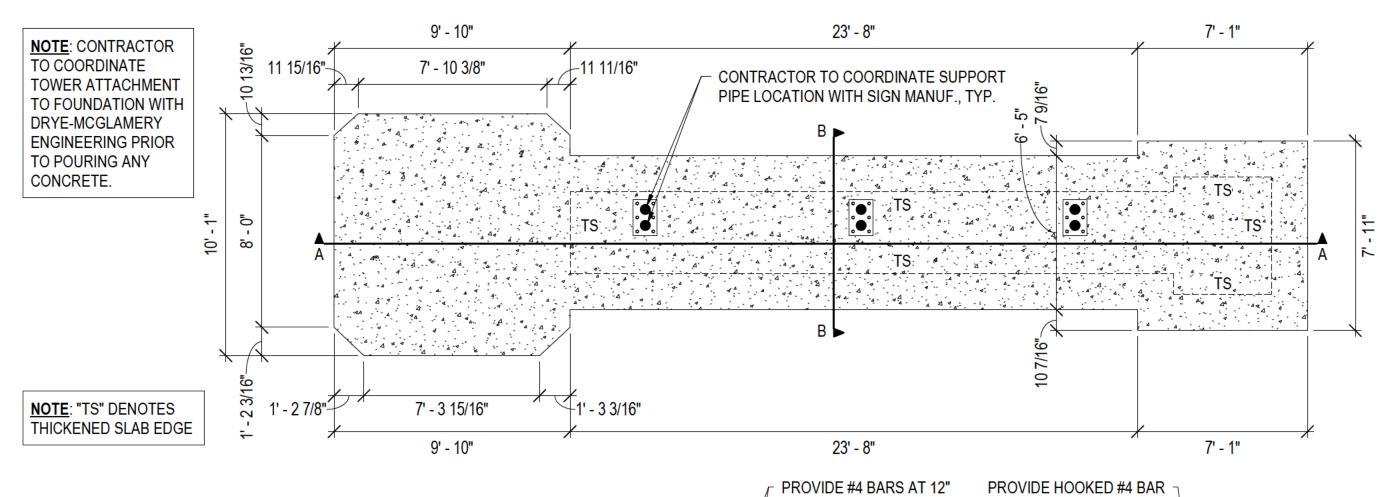
DESIGN DATA

ALL CONSTRUCTION SHALL COMPLY AS APPROPRIATE WITH THE FOLLOWING CODES AND/OR SPECIFICATIONS:

2018 NORTH CAROLINA STATE BUILDING CODE (IBC 2015) ASCE 7-10, MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND OTHER APPLICABLE CRITERIA, REFERENCE TO OTHER STANDARD SPECS. OR CODES SHALL MEAN THE LATEST VERSION.

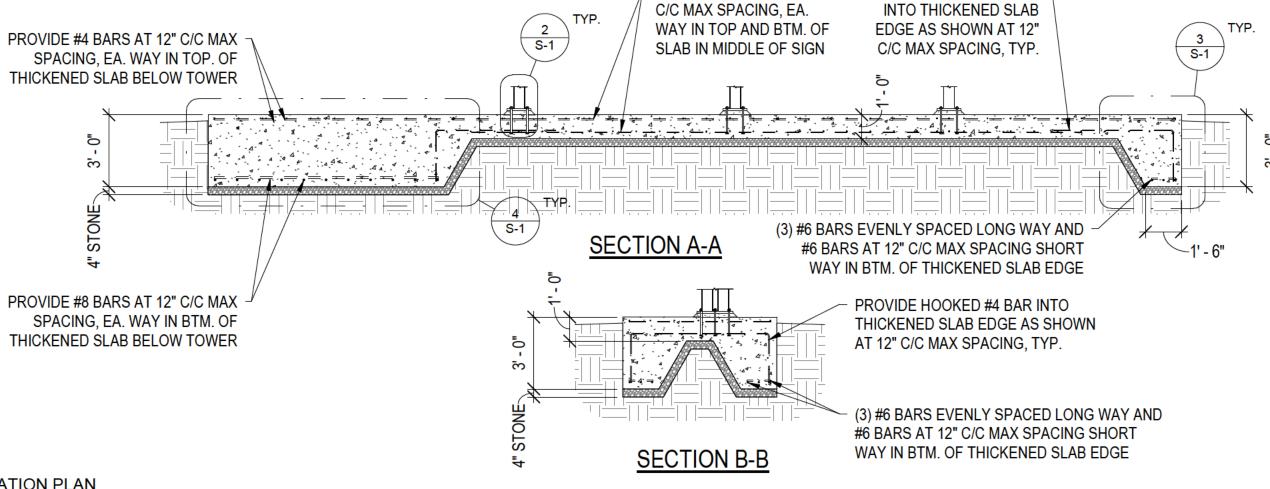
DESIGN LOADS:

Α.	WIND LOADS: BASIC WIND SPEED (3-SEC GUST), V EXPOSURE CATEGORY IMPORTANCE FACTOR, IW DIRECTIONALITY FACTOR, kd	121 MPH C 1.00 0.85
В.	SEISMIC LOAD: SOIL SITE CLASS IMPORTANCE FACTOR, le 0.2 SECOND, Ss 1.0 SECOND, S1. 0.2 SECOND, Sds 1.0 SECOND, Sds 1.0 SECOND, Sd1 SEISMIC DESIGN CATEGORY	D 1.00 0.123g 0.062g 0.132g 0.100g B
FOUNI	DATION DESIGN DATA ALLOWABLE SOIL BEARING PRESSURE, q	1500 PSF (ASSUMED)

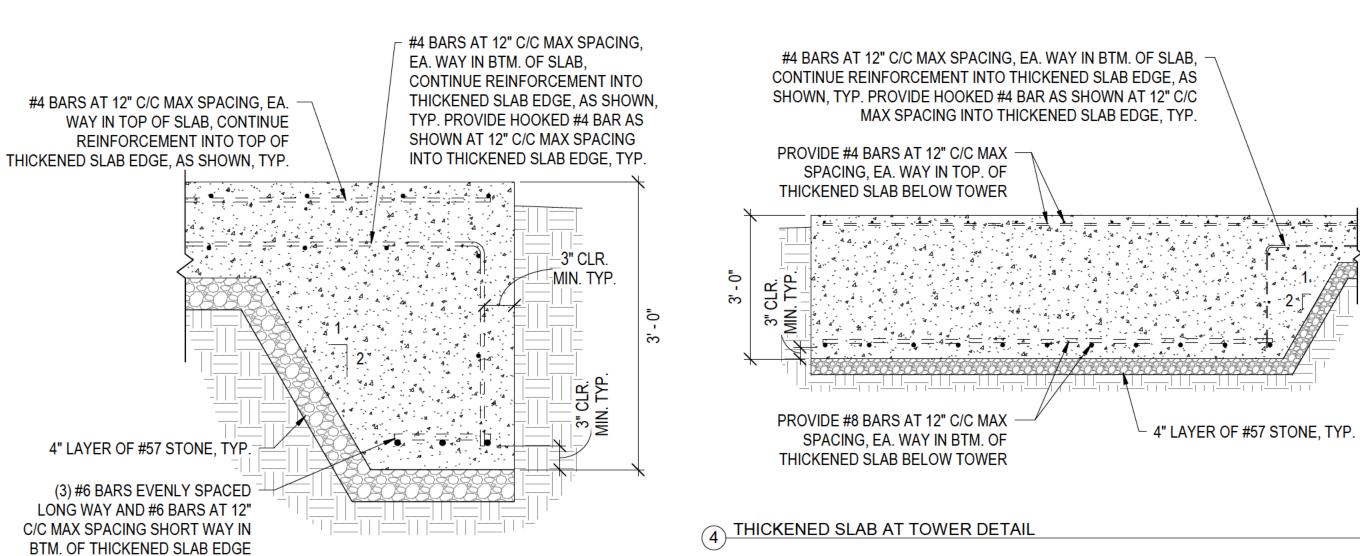




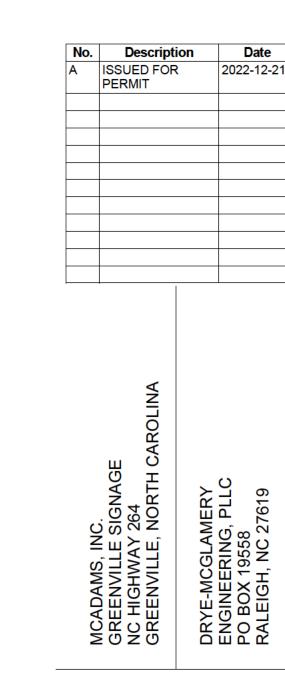




1/4" = 1'-0" PIPE FOR SIGN BY OTHERS, TYP. 1" THICK A36 1" DIA. F1554 GRADE 55 ANCHOR BASEPLATE, TYP. RODS, TYP. ANCHORS TO HAVE MINIMUM EMBED OF 9", TYP. 2" THICK LAYER OF **GROUT BELOW** BASEPLATES, TYP. *NOTE: DETAIL IS A TYPICAL DETAIL AND IS CONCEPTUAL ONLY. CONTRACTOR SHALL COORDINATE FINAL ATTACHMENT OF SIGN POST TO FOUNDATION WITH DRYE-MCGLAMERY ENGINEERING PRIOR TO **SECTION B-B SECTION A-A** POURING ANY FOUNDATION CONCRETE. (2) TYPICAL SIGN COLUMN BASEPLATE DETAIL



SCALE 1/4" = 1'-0"



MONUMENT SIGN FOUNDATION PLAN

ISSUED FOR PERMIT

DME PROJECT #: 2022214

DRAWN BY LCH

CHECKED BY DJM