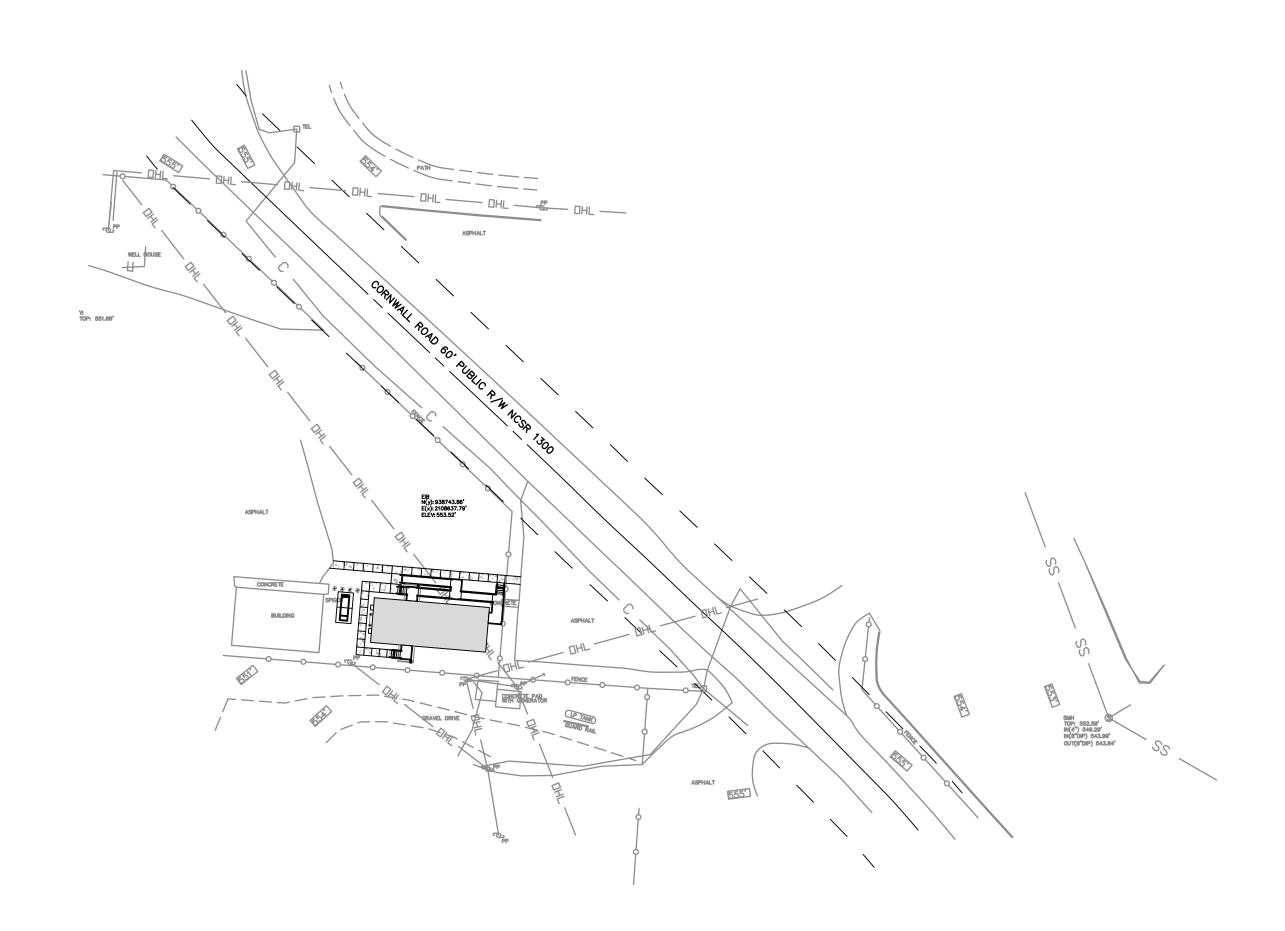
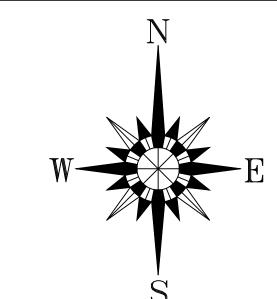
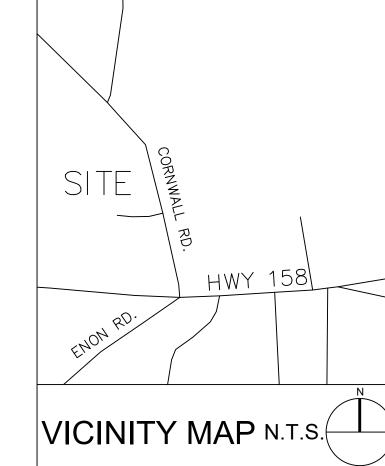
MODULAR BUILDING RELOCATION FOR BRIDGE MAINTENANCE OFFICE NCDOT HIGHWAY DIVISION 5679 CORNWALL ROAD, OXFORD, NC 27565

CIVIL ENGINEER DANIEL J. MCGLAMERY, PE DRYE-MCGLAMERY ENGINEERING, PLLC 821 WAKE FOREST RD RALEIGH, NC 27604 PHONE: (704) 960-0180 daniel.mcglamery@dryeengineering.com







SURVEY DISCLAIMER

SURVEY INFORMATION PREPARED BY L. JORDAN PARKER (PLS L-4665) ON OCTOBER 7, 2022. CAWTHORNE, MOSS, & PANCIERA, PC, 333 S. WHITE STREET, WAKE FOREST, NC 2758



SITE DATA INFORMATION

PROJECT NAME: PROJECT ADDRESS:

MODULAR BUILDING RELOCATION FOR BRIDGE MAINTENANCE OFFICE 5679 CORNWALL RD

OXFORD, NC 27565

190300985088 (5650 CORNWALL RD)

SITE ACREAGE: 41.45 ACRES

O-I (GRANVILLE COUNTY) ZONING DISTRICT:

COVER

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office

STATE CONSTRUCTION ID.# 22-24690-01A

EQUIPMENT NUMBER 1320-0008-3222

REVISIONS DATE

DATE ISSUED: 9/5/20. DRAWN BY: DJM CHECKED BY: HWD

C-0.0

DRAWING LIST

C - 0.0	COVER	SHFFT	

C-1.0 EXISTING CONDITIONS PLAN

DEMOLITION PLAN

STAKING AND MATERIALS PLAN

EROSION CONTROL PLAN

GRADING AND DRAINAGE PLAN

UTILITY PLAN SITE DETAILS

EROSION CONTROL DETAILS TRAFFIC CONTROL DETAILS

11 C-6.3 TRAFFIC CONTROL DETAILS

PIPING DETAILS

13 C-6.5 SEWER DETAILS

14 C-6.6 SEWER DETAILS

15 S-0 STRUCTURAL GENERAL NOTES 16 S-1 DESIGN DATA AND SPECIAL INPSECTIONS

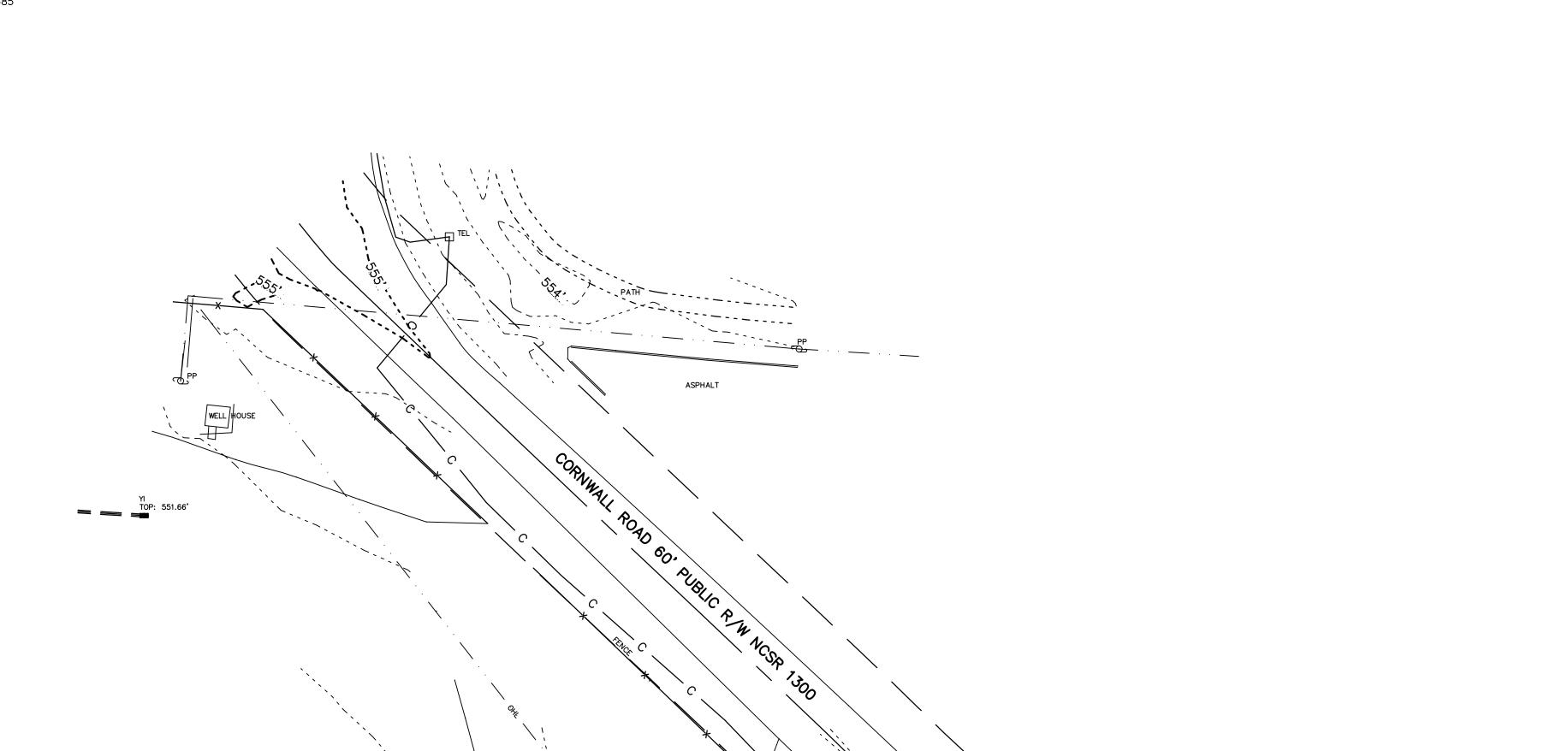
MODULAR BUILDING FOUNDATION PLAN

18 S-3 RAMP AND STAIR FOUNDATION PLAN

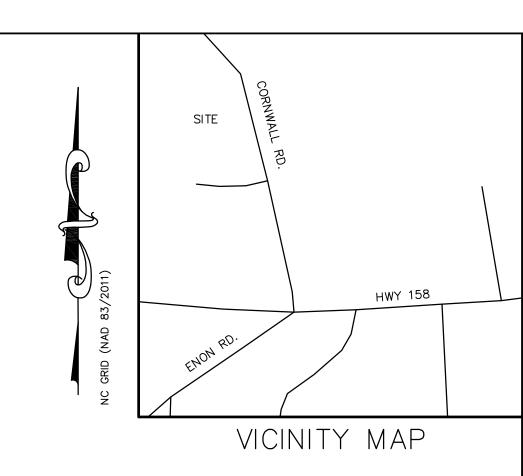
STRUCTURAL SECTION AND DETAIL VIEWS

I, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY PERFORMED UNDER MY SUPERVISION FROM REFERENCES AS NOTED HERE
ON; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY
INDICATED AS DRAWN FROM INFORMATION SHOWN IN THE REFERENCES, THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY AS CALCULATED IS GREATER THAN 1:10000; THIS SURVEY IS NOT TO BE RECORDED WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR.

PROFESSIONAL LAND SURVEYOR LICENSE NUMBER L-4685



EIB N(y): 938743.86' E(x): 2108637.79' ELEV: 553.52'



NOTES:

- 1. THIS PLAT SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS OF WAY OF RECORD PRIOR TO THE DATE OF THIS PLAT.
- BEEN MARKED OR LOCATED BY GC 3. ALL BEARINGS AND DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS

2. UNDERGROUND UTILITIES HAVE

- 4. ALL ELEVATIONS ARE BASED ON
- 5. ALL CONTOURS ARE AT 1' INTERVALS HIGHLIGHTED EVERY 5'.

EIP — EXISTING IRON PIPE
EIB — EXISTING IRON BAR
BEIP — BENT IRON PIPE
BEIB — BENT IRON BAR
CM — CONCRETE MONUMENT
EPK — EXISTING PK NAIL
SPK — SET PK NAIL
NIP — NEW IRON PIPE SET
R/W — RIGHT OF WAY CATV – CABLE TV BOX EB – ELECTRIC BOX TEL – TELEPHONE PEDESTAL PP — POWER POLE OHL — OVERHEAD LINE LP — LIGHT POLE

WM - WATER METER WV - WATER MEIER
WV - WATER VALVE
CO - SEWER CLEAN-OUT
CC - CONCRETE
CB - CATCH BASIN
MH - MANHOLE
FH - FIRE HYDRANT

1) AREA COMPUTED BY COORDINATE METHOD. 2) THERE IS NO NCGS MONUMENT WITHIN 2000' OF THIS PROPERTY.

LINE TYPE LEGEND

PROPERTY LINE - LINE SURVEYED
- RIGHT-OF-WAY
- ADJOINING LINE - LINE NOT SURVEYED
- OVERHEAD LINE
- BUILDING SETBACK
- BUILDING SETBACK
- BUFFER
- BUFFER
- FLOOD HAZARD SOILS

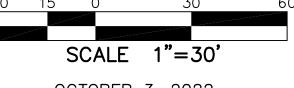
SMH TOP: 552.59' IN(4") 549.29' IN(8"DIP) 543.99' OUT(8"DIP) 543.84'

TOPOGRAPHIC SURVEY FOR

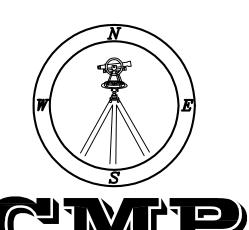
DRYE-MCGLAMERY **ENGINEERING**

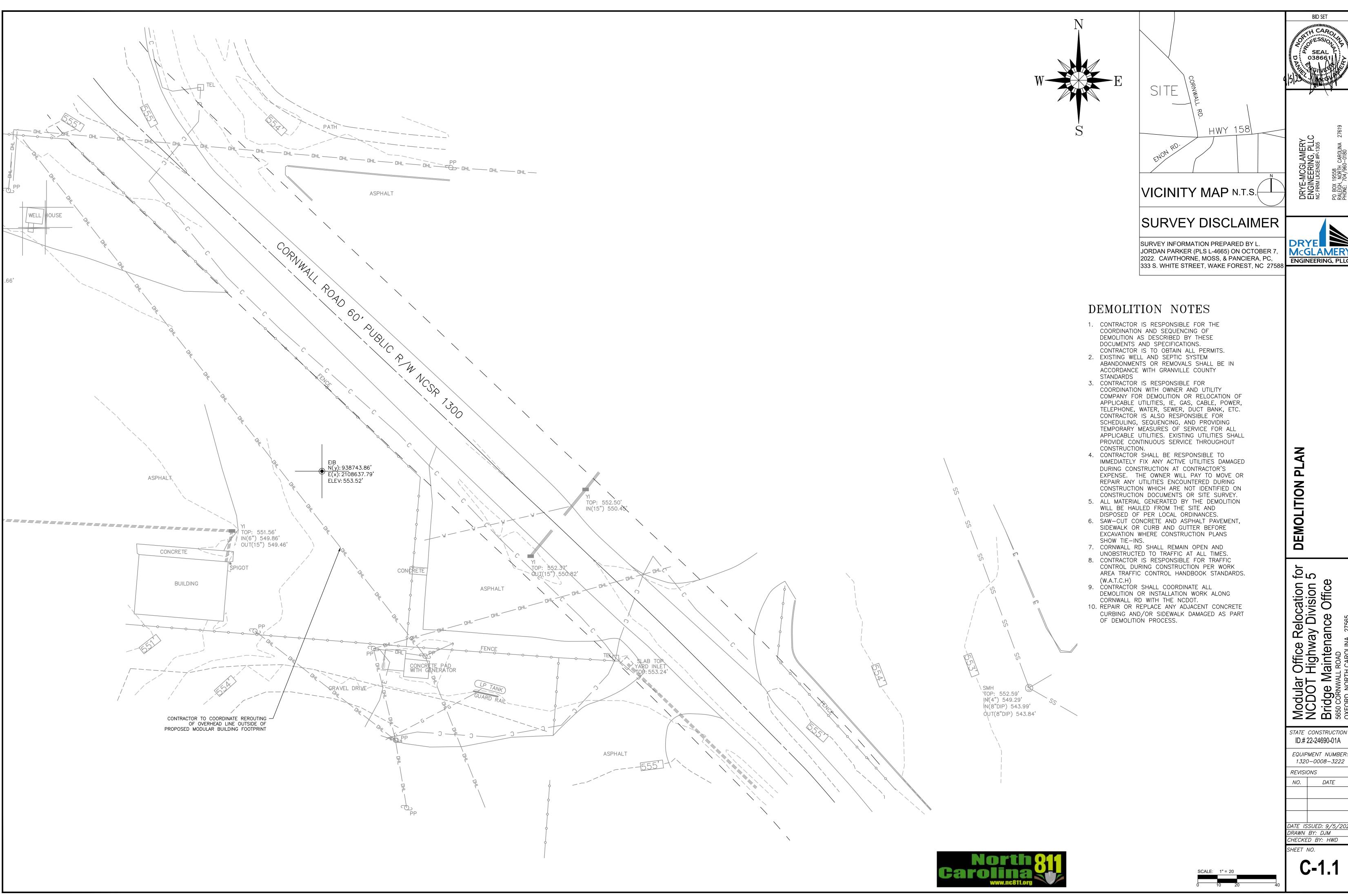
5650 CORNWALL ROAD OWNER: STATE OF NORTH CAROLINA CITY OF OXFORD

COUNTY, NORTH CAROLINA



OCTOBER 3, 2022 PIN # 1903-98-5088





BID SET 038661

ENGINEERING, PLLC

Modular Office Relocation fo NCDOT Highway Division 5 Bridge Maintenance Office

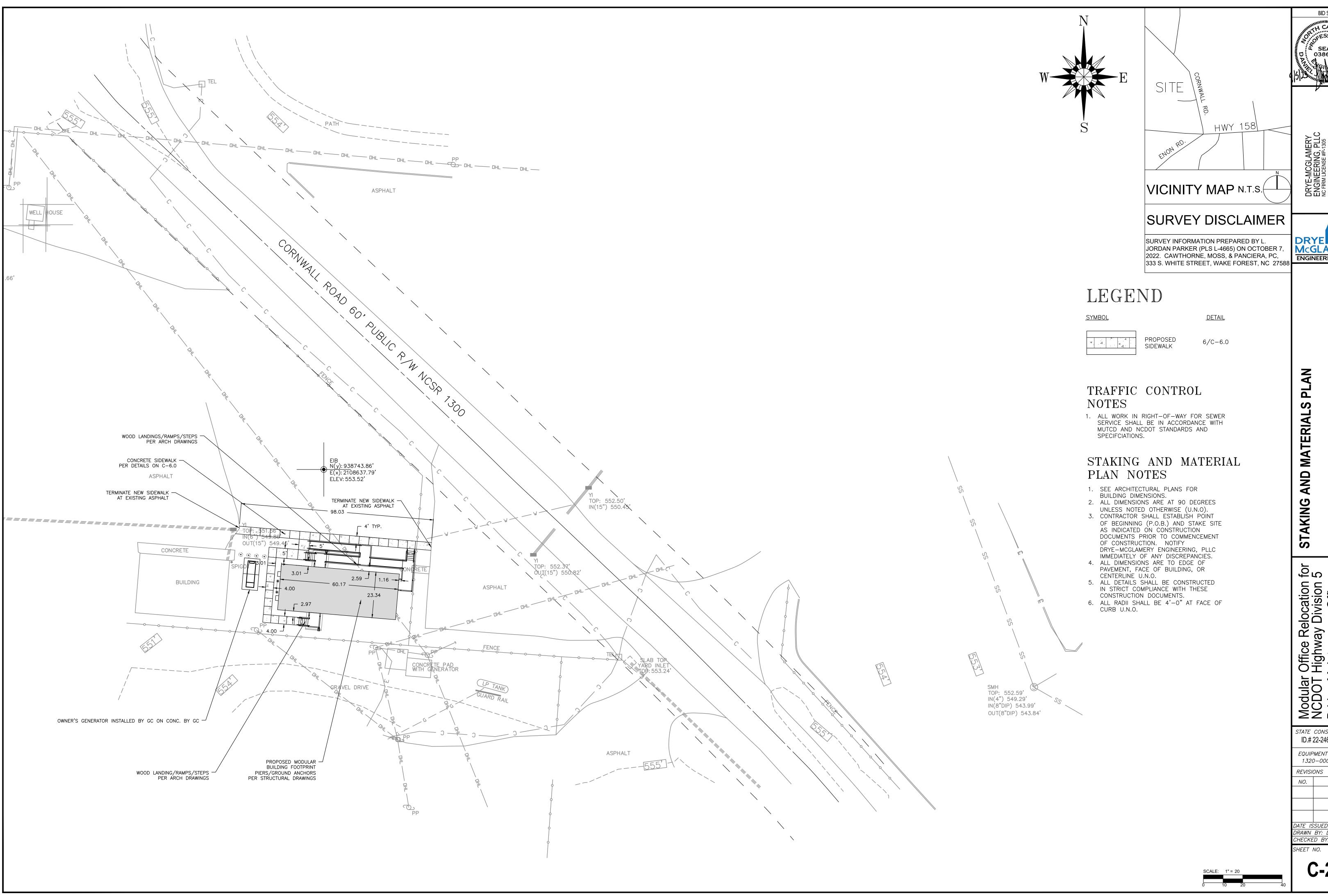
ID.# 22-24690-01A

EQUIPMENT NUMBER: 1320-0008-3222

DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM CHECKED BY: HWD

C-1.1





Modular Office Relocation fo NCDOT Highway Division 5 Bridge Maintenance Office

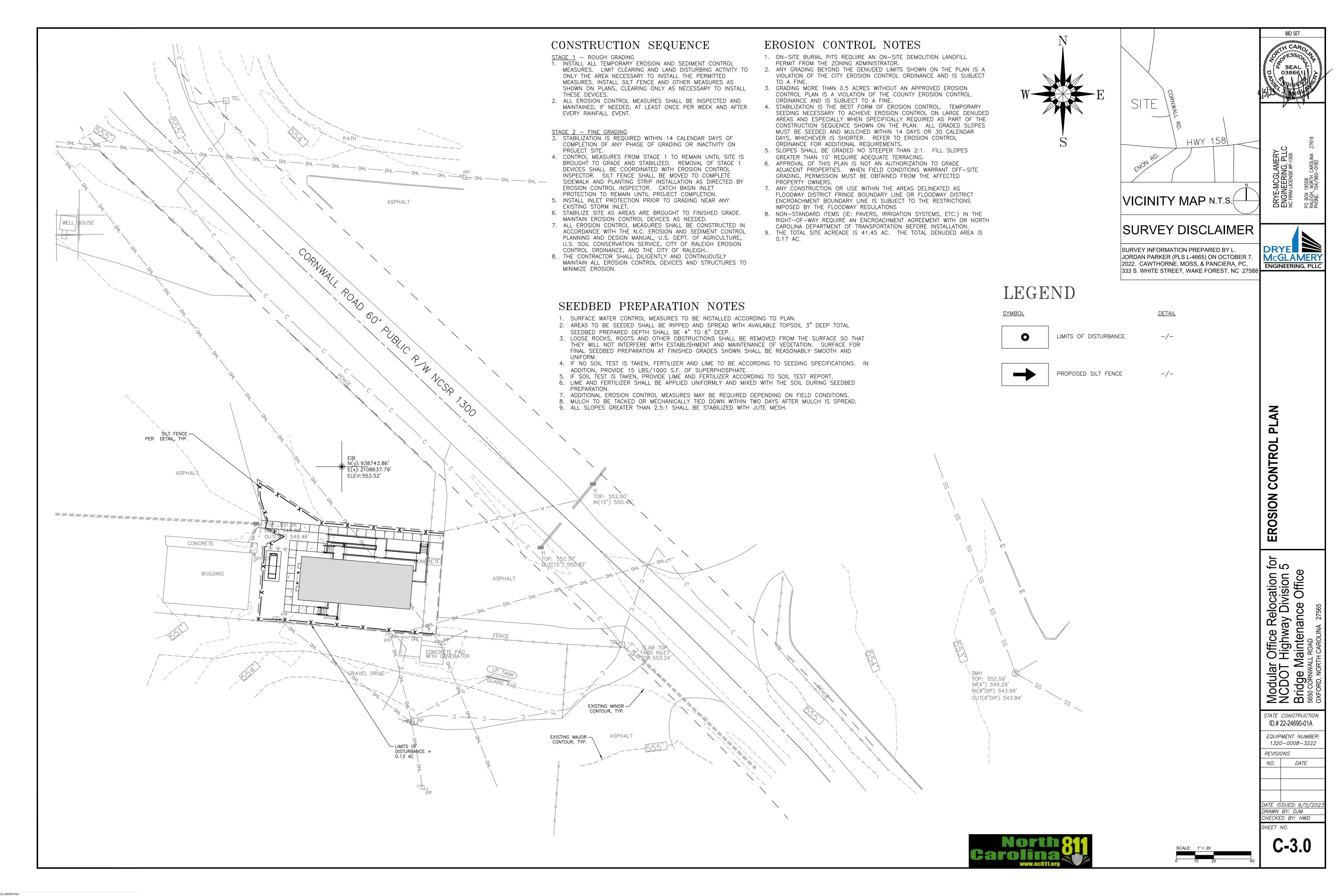
STATE CONSTRUCTION ID.# 22-24690-01A

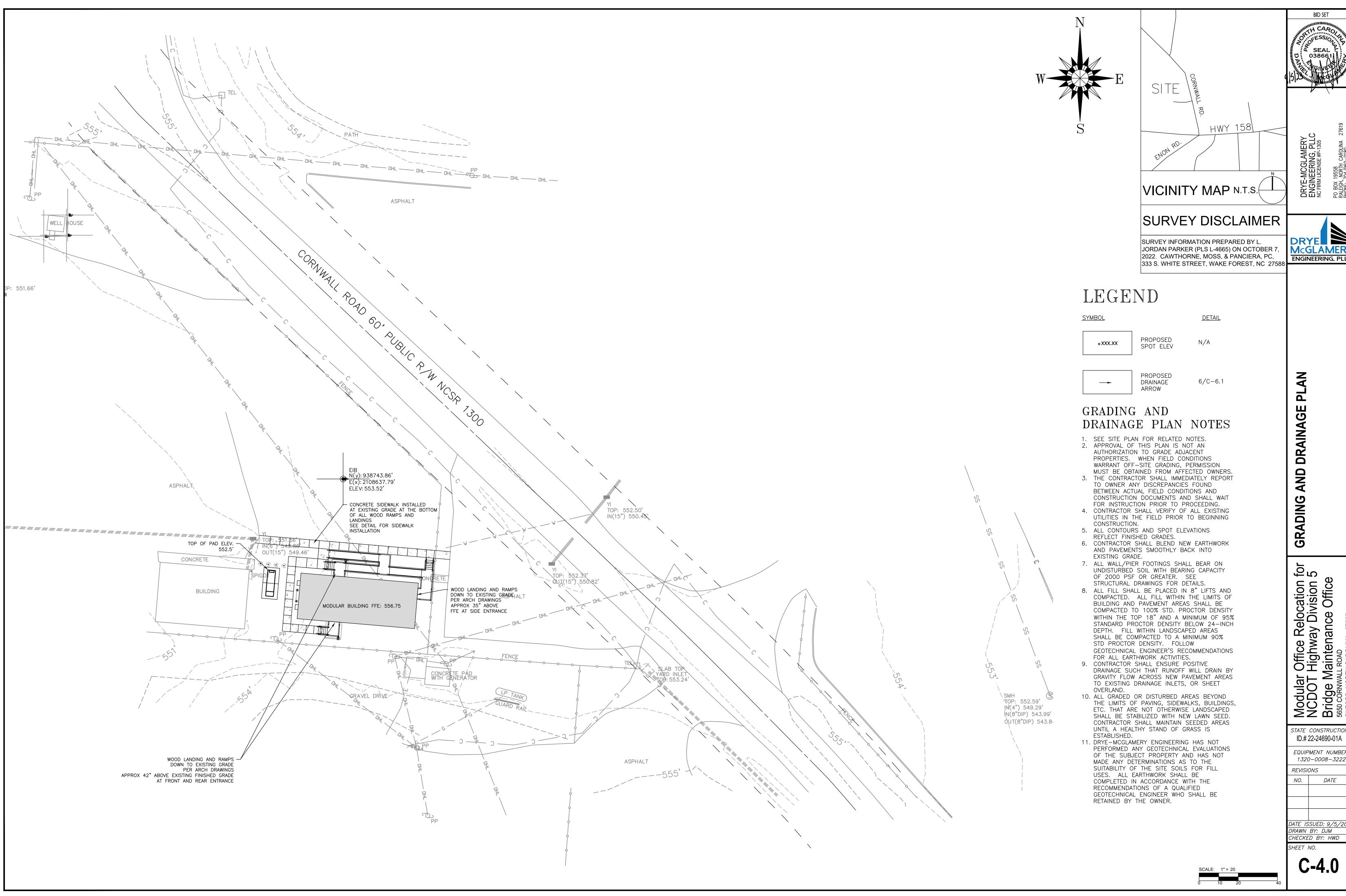
EQUIPMENT NUMBER: 1320-0008-3222

DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM CHECKED BY: HWD

SHEET NO.





STATE CONSTRUCTION ID# 22-24690-01A

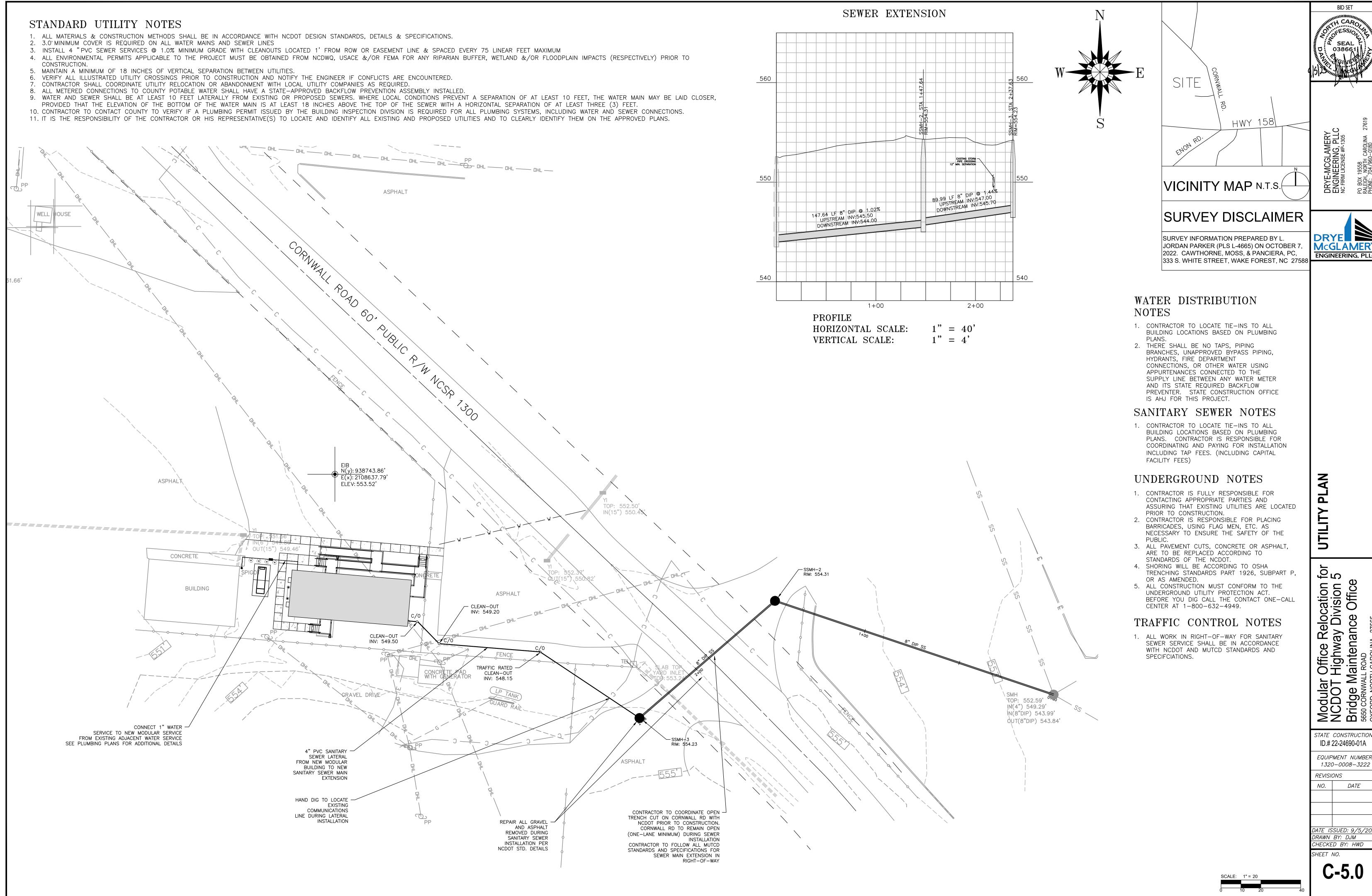
EQUIPMENT NUMBER: 1320-0008-3222

DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM

CHECKED BY: HWD

C-4.0



SEAL 038661



Modular Office Reloca NCDOT Highway Diva Bridge Maintenance (

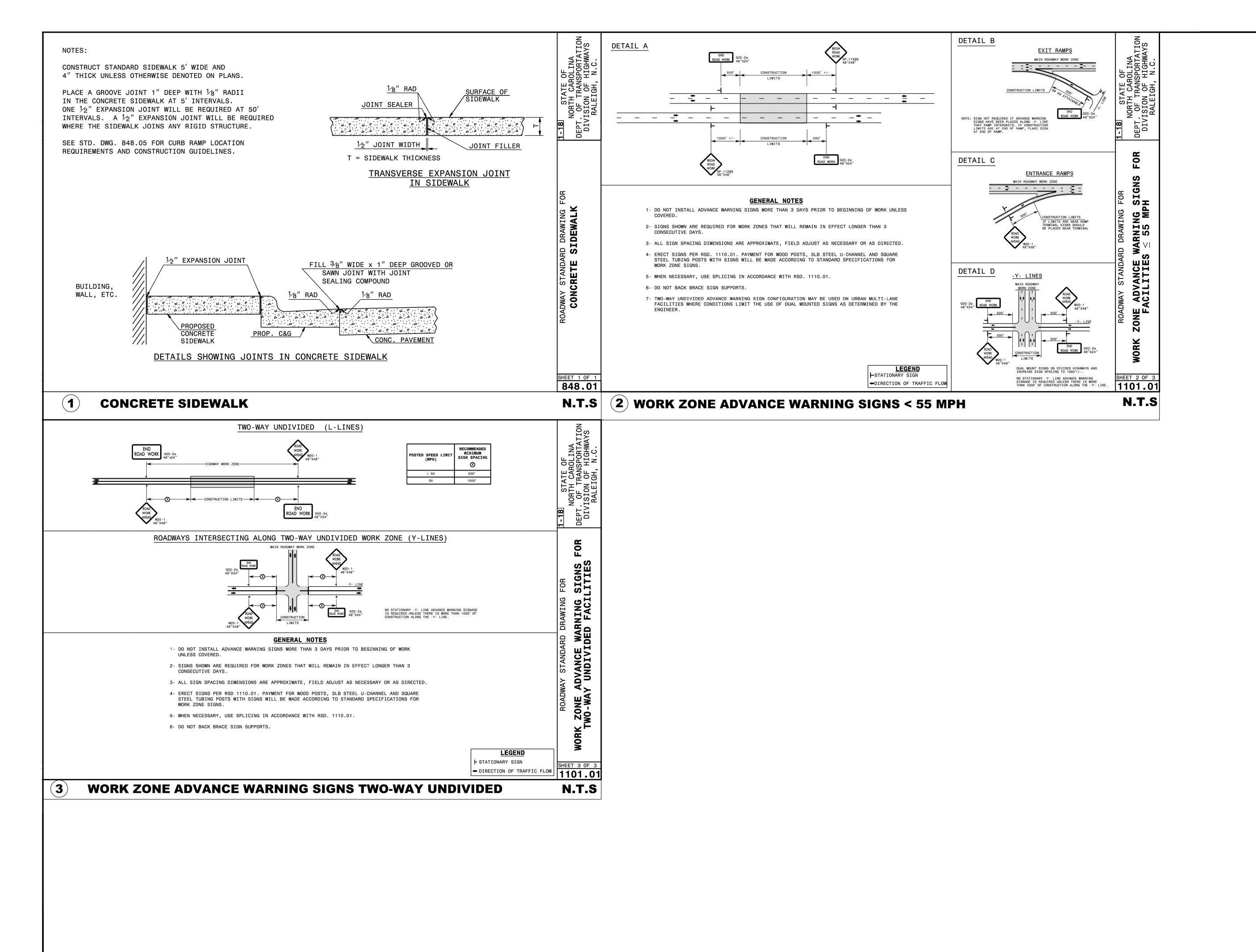
EQUIPMENT NUMBER

1320-0008-3222

DATE

DATE ISSUED: 9/5/20. DRAWN BY: DJM CHECKED BY: HWD

C-5.0





DRYE-MCGLAMERY
ENGINEERING, PLLC
NC FIRM LICENSE #P-1305
PO BOX 19558
RALEIGH, NORTH CAROLINA 27619
PHONE: 704/960-0180



SITE DETAILS

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office
5650 CORNWALL ROAD
5050 CORNWALL ROAD
5050 CORNWALL ROAD
5050 CORNWALL ROAD

ID.# 22-24690-01A

EQUIPMENT NUMBER: 1320-0008-3222

REVISIONS

NO. DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM

CHECKED BY: HWD SHEET NO.





TROL EROSION CONT DETAILS

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office

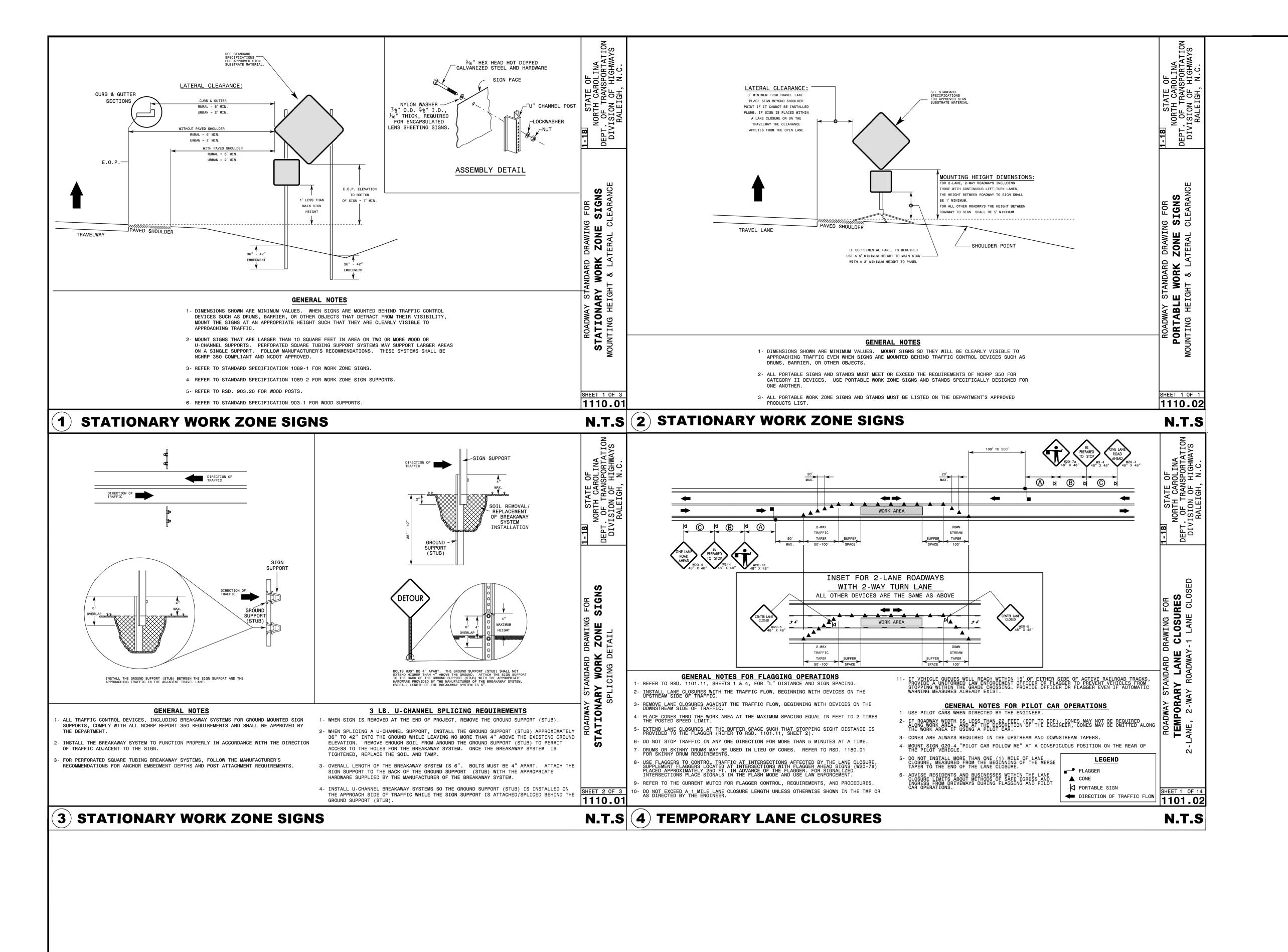
ID.# 22-24690-01A EQUIPMENT NUMBER:

STATE CONSTRUCTION

1320-0008-3222

DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM CHECKED BY: HWD





ENGINEERING, PLLC
NC FIRM LICENSE #P-1305
PO BOX 19558
RALEIGH, NORTH CAROLINA 2761
PHONE: 704/960-0180



TRAFFIC CONTROL
DETAILS

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office
5650 CORNWALL ROAD
5650 CORNWALL ROAD
5650 CORNWALL ROAD

ID.# 22-24690-01A

EQUIPMENT NUMBER 1320-0008-3222

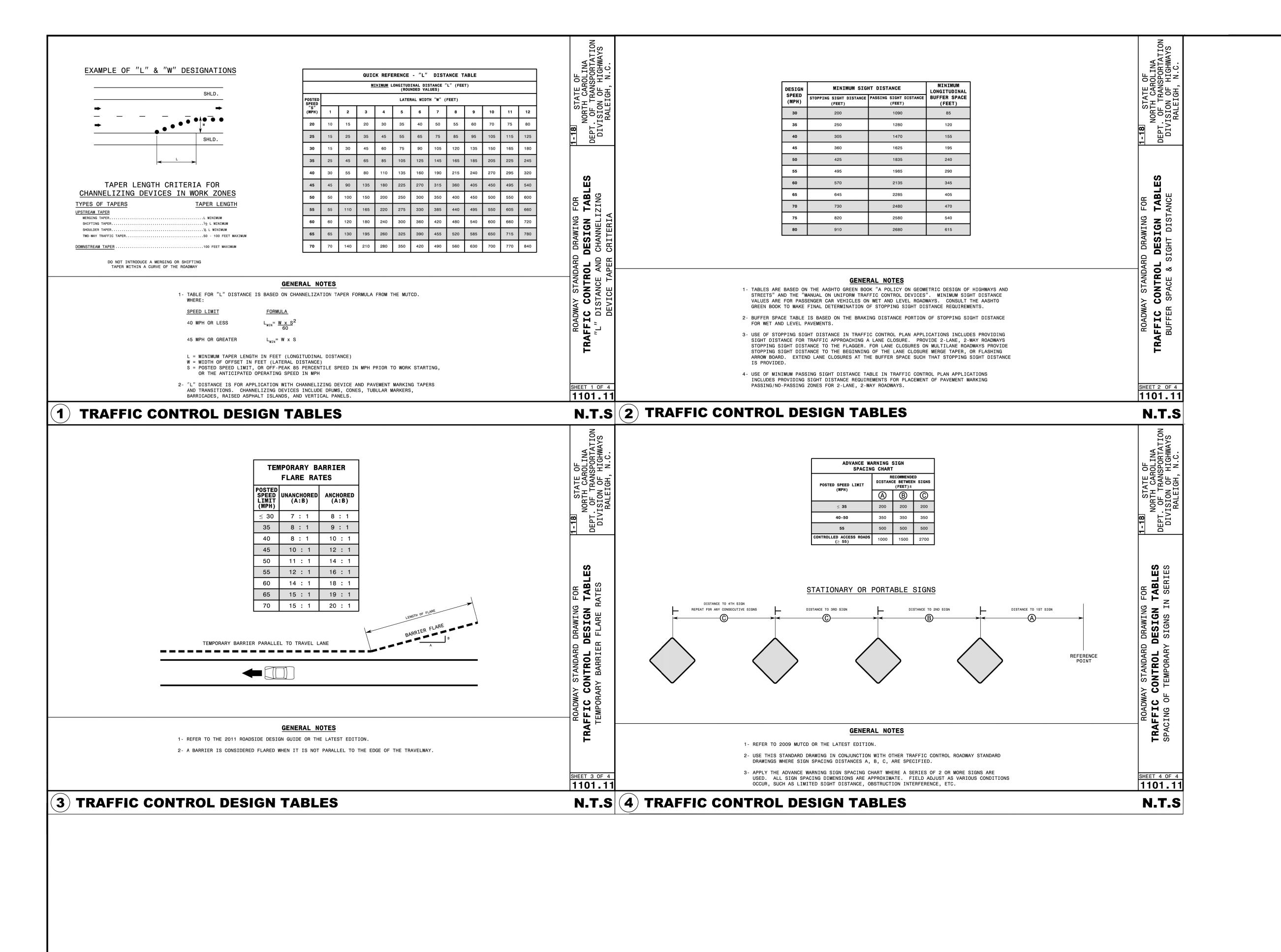
REVISIONS

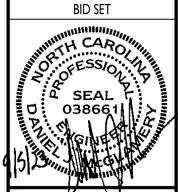
NO. DATE

DATE ISSUED: 9/5/20. DRAWN BY: DJM

CHECKED BY: HWD
SHEET NO.

STILLT NO.







ROL CON TRAFFIC DETAILS

for 5 Modular Office Relocation fon NCDOT Highway Division 5
Bridge Maintenance Office

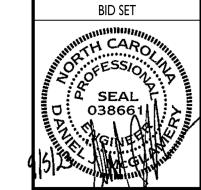
STATE CONSTRUCTION ID.# 22-24690-01A

EQUIPMENT NUMBER 1320-0008-3222

REVISIONS NO. DATE

DATE ISSUED: 9/5/20. DRAWN BY: DJM

CHECKED BY: HWD



DRYE-MCGLAMERY
ENGINEERING, PLLC
NC FIRM LICENSE #P-1305
PO BOX 19558
RALEIGH, NORTH CAROLINA 27619
PHONE: 704/960-0180



PIPE DETAILS

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office
5650 CORNWALL ROAD
5650 CORNWALL ROAD
5650 CORNWALL ROAD
5650 CORNWALL ROAD

EQUIPMENT NUMBER 1320-0008-3222

REVISIONS

NO. DATE

ID.# 22-24690-01A

NO. DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM CHECKED BY: HWD

SHEET NO.





DETAIL

lar Office Relocation for OT Highway Division 5

Maintenance Office Modular NCDOT I Bridge M STATE CONSTRUCTION

ID.# 22-24690-01A EQUIPMENT NUMBER 1320-0008-3222

REVISIONS DATE

DATE ISSUED: 9/5/202 DRAWN BY: DJM CHECKED BY: HWD

NOTES:

1. THE PAVEMENT EDGE SHALL BE DEFINED BY A STRAIGHT EDGE FORMED BY A MACHINED SAW CUT.

2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.

3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. BITUMINOUS BASE OR BINDER MAY BE SUBSTITUTED IF APPROVED BY TRANSPORTATION DIRECTOR OR DESIGNEE.

4. THE ENTIRE THICKNESS/VERTICAL EDGE OF THE CUT SHALL BE TACKED.

5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.

6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY AND ROLLED WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH, LEVEL PATCH.

ASPHALT PAVEMENT PATCH

N.T.S





SEWER DETAI

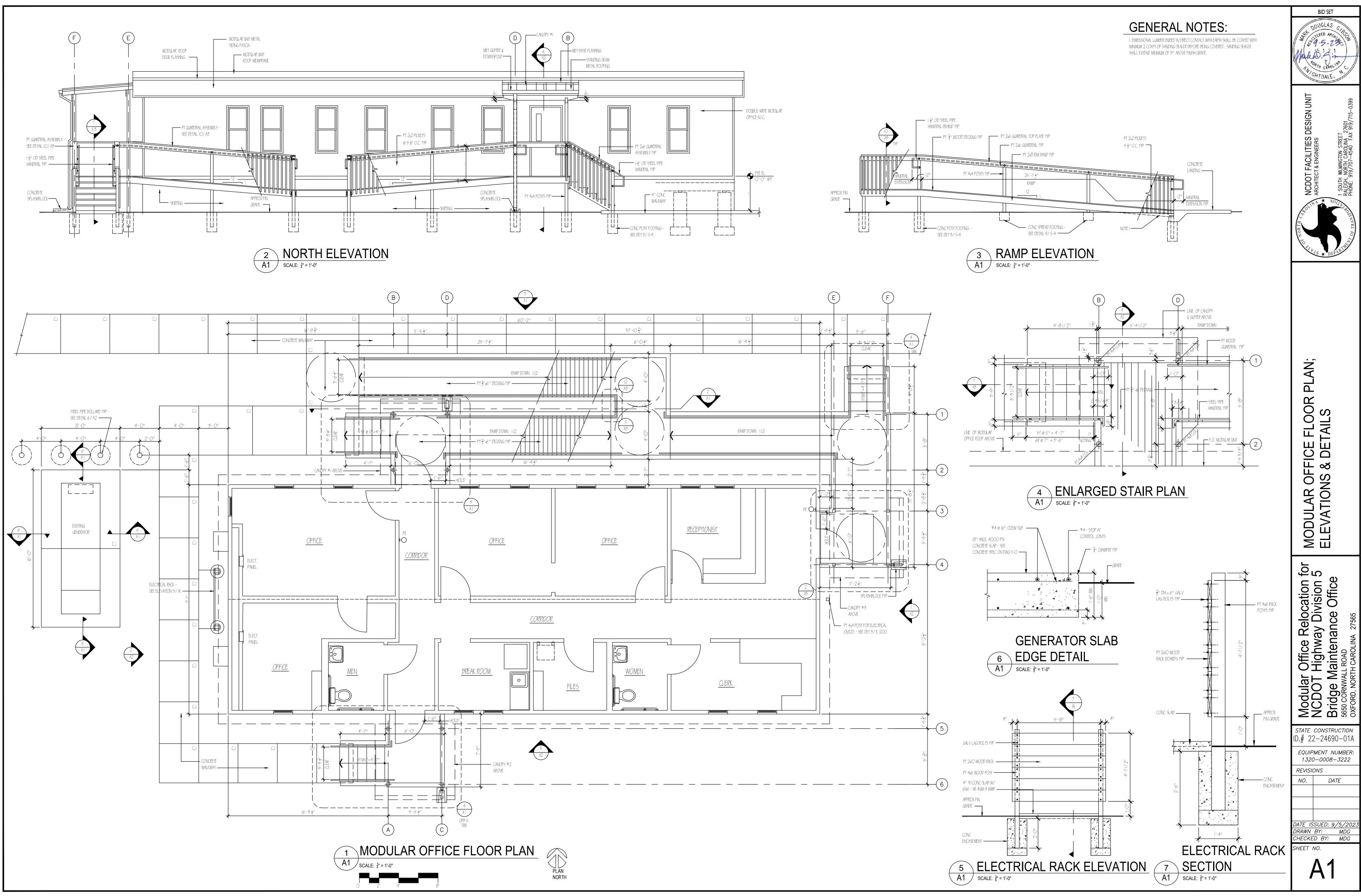
Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office

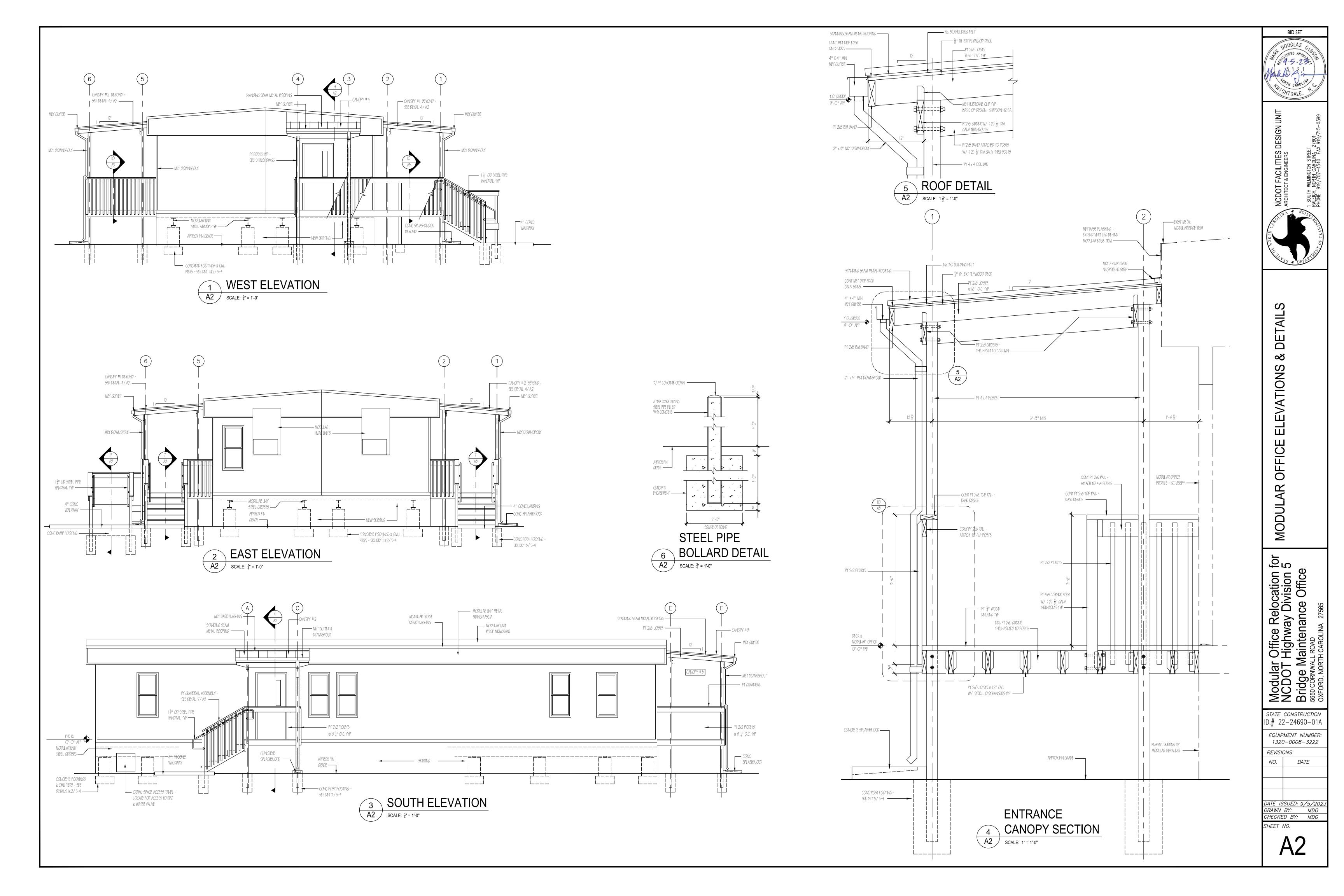
STATE CONSTRUCTION ID.# 22-24690-01A

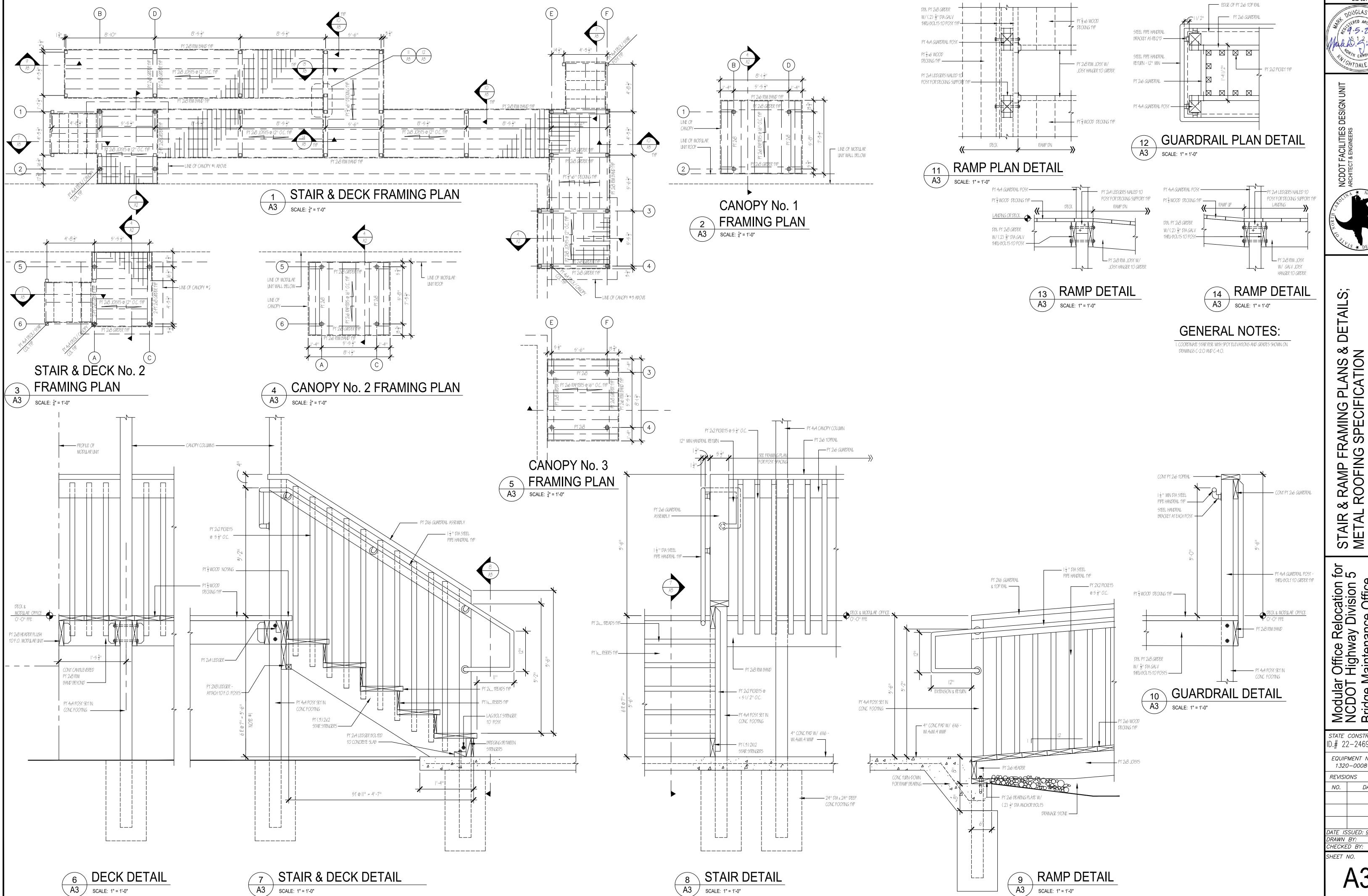
EQUIPMENT NUMBER: 1320-0008-3222

REVISIONS NO. DATE

DATE ISSUED: 9/5/2020 DRAWN BY: DJM CHECKED BY: HWD







P FRAMING PLANS & ING SPECIFICATION & RAMF L ROOFI

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office

STATE CONSTRUCTION ID.# 22-24690-01A **EQUIPMENT NUMBER:** 1320-0008-3222 DATE

DATE ISSUED: 9/5/2023
DRAWN BY: MDG
CHECKED BY: MDG

- A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT NECESSARY TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ELECTRICAL WORK.
- B. ALL ELECTRICAL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, BOARD OF UNDERWRITERS, OSHA, NEMA, NFPA, ALL STANDARDS AND ALL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES OF REQUIRED ORDINANCES, AND DELIVER THEM TO THE OWNER'S REPRESENTATIVE.
- C. UPON REVIEW OF THE DRAWINGS PRIOR TO SUBMITTING HIS PROPOSAL, THE ELECTRICAL CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES WITHIN THE DRAWINGS AND REQUEST CLARIFICATION CONCERNING THE DISCREPANCIES. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
- D. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. THE CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS.
- E. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT, OUTLET BOXES, POKE-THRU SERVICE FITTINGS REQUIRED TO FACILITATE THE INSTALLATION OF COMMUNICATION WIRING AND
- F. THE DRAWINGS INDICATE THE SIZE AND GENERAL LOCATION OF WORK, SCALED DIMENSIONS SHALL NOT BE USED, VERIFY SCALE WITH ARCHITECTURAL DRAWINGS. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES. SWITCHES, RECEPTACLES. ETC. SHALL BE DETERMINED FROM THE ARCHITECTS DRAWINGS.

2. SCOPE OF WORK

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, TOOLS, SUPERVISION, ETC. REQUIRED TO INSTALL COMPLETE OPERATIONAL ELECTRICAL SYSTEMS AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS. SUCH INSTALLATIONS SHALL INCLUDE, BUT ARE NOT SPECIFICALLY LIMITED TO THE FOLLOWING:

- A. INSTALLATION OF RACEWAY AND CIRCUIT WIRING.
- B. CUTTING, CHANNELLING, CORING AND CHASING REQUIRED TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL WORK AND ROUGH PATCHING.
- C. INSTALLATION OF ELECTRICAL DISTRIBUTION EQUIPMENT.
- D. INSTALLATION OF CONDUIT, JUNCTION BOXES, PULL BOXES, ETC. REQUIRED FOR THE AFOREMENTIONED EQUIPMENT.

3. PANEL BOARDS

- A. A TYPEWRITTEN DIRECTORY OF CIRCUITS SHALL BE INSTALLED INSIDE OF EACH PANELBOARD DOOR. THE LIST SHALL INCLUDE AS-BUILT CONDITIONS INCLUDING ALL TYPES OF DEVICES SERVED BY EACH CIRCUIT, EACH PANEL SHALL BE EXTERNALLY TAGGED WITH PERMANENT PHENOLIC PLATE INDICATING PANEL IDENTIFICATION AND VOLTAGE.
- B. PHASE LEGS OF PANELS SHALL BE BALANCED. ANY PANEL FOUND WITH UNBALANCED LOADS SHALL HAVE ITS CIRCUITS REARRANGED AS REQUIRED TO BALANCE PHASE LEGS.
- C. THE SHORT CIRCUIT RATING OF A PANEL SHALL APPLY TO ALL BRANCH DEVICES. SERIES CONNECTED SHORT CIRCUIT RATING OF BRANCH DEVICES WILL NOT BE ACCEPTED.

4. CIRCUIT BREAKERS AND FUSES

- A. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AND BE COMPATIBLE WITH THE PANELBOARD.
- B. CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK COMPENSATED FOR AMBIENT TEMPERATURES AND SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL OR HIGHER WHERE NOTED ON PANEL SCHEDULE.
- C. CIRCUIT BREAKERS SHALL BE OF THE "THERMAL-MAGNETIC" TYPE HAVING BIMETALLIC ELEMENT FOR TIME DELAY OVER LOAD PROTECTION AND MAGNETIC ELEMENT FOR SHORT CIRCUIT PROTECTION.
- D. CIRCUIT BREAKERS AND FUSES SHALL BE SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT BEING SERVED. VERIFY EQUIPMENT REQUIREMENTS AS NECESSARY PRIOR TO INSTALLATION OF BRANCH CIRCUIT OVERCURRENT PROTECTION.
- E. COORDINATE WITH ALL CONTRACTORS FOR THE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT TO BE INSTALLED. DO NOT RUN CONDUIT AND CONDUCTORS PRIOR TO THE CONFIRMATION OF THE

CONCEALED RACEWAY. INDICATES 2#12 AND 1#12 GROUND

CONCEALED RACEWAY. INDICATES 2#12, 1#12 NEUTRAL AND

CONCEALED RACEWAY. INDICATES HOMERUN TO PANEL

ELECTRICAL SYMBOLS

PANELBOARD, FLUSH MOUNTED

WITH 2#12 AND 1#12 GROUND.

1#12 GROUND IN 3/4"CONDUIT.

4#8, 1#10G - 1"C -

EQUIPMENT REQUIREMENTS.

5. DISCONNECT SWITCHES

- A. THE CONTRACTOR SHALL SUPPLY AND INSTALL DISCONNECT SWITCHES AS SHOWN ON THE PLANS, OR AS OTHERWISE REQUIRED BY CODE, WHETHER SHOWN ON PLANS OR NOT.
- B. ALL SWITCHES SHALL BE HEAVY DUTY QUICK-MAKE QUICK-BREAK TYPE, RATED AS REQUIRED. EACH SWITCH SHALL HAVE A SUFFICIENT NUMBER OF POLES TO INTERRUPT ALL UNGROUNDED CONDUCTORS. DISCONNECT SWITCHES SERVING MOTOR LOADS SHALL BE HORSEPOWER RATED.
- C. FUSES SHALL BE INSTALLED IN ALL FUSED SWITCHES, SIZED AS INDICATED ON PLANS.
- D. UNLESS OTHERWISE NOTED, INDOOR SWITCHES SHALL BE PROVIDED WITH NEMA 1 ENCLOSURES; OUTDOOR SWITCHES WITH NEMA 3R ENCLOSURES.

RACEWAYS

- A. WHERE CONDUIT IS USED, 3/4" MINIMUM CONDUIT SHALL BE PROVIDED.
- B. ALL CONDUITS TO BE SUPPORTED BY STANDOFFS. CONNECTION TO CEILING SUPPORTS SHALL NOT BE PERMITTED. ALL CONDUIT SHALL BE RUN CONCEALED.
- C. ALL CONDUITS INSTALLED OUTDOORS SHALL BE RIGID GALVANIZED WITH THREADED CONNECTIONS. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE RIGID PVC WITH A SEPARATE GROUNDING CONDUCTOR AND CONCRETE ENCASEMENT WHERE REQUIRED. WHERE UNDERGROUND RACEWAYS TURN UP TO EQUIPMENT, THE ELBOW REQUIRED AND THE STUB-UP OUT OF THE SLAB OR EARTH MUST BE RIGID STEEL FOR THE LAST TWO FEET MINIMUM.
- D. FLEXIBLE CONDUIT SHALL BE USED TO MAKE FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, RECESSED LIGHTING FIXTURES, EXPANSION JOINTS OR WHERE THE INSTALLATION OF RIGID CONDUIT IS IMPRACTICAL.
- INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS, AND STEEL SUPPORTS AS REQUIRED.

WIRE AND CABLE

- A. FOR CONCEALED BRANCH CIRCUIT WIRING, TYPE EMT CONDUIT SHALL BE USED WHERE PERMITTED BY CODE. TYPE AC FLEXIBLE METAL CONDUIT AND ROMEX SHALL NOT BE USED.
- B. ALL CONDUCTORS SHALL BE SOFT ANNEALED 98% PURE INSULATED COPPER. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION AND RATED 90 DEGREE CELCIUS UNLESS OTHERWISE NOTED. SERVICE ENTRANCE CONDUCTORS SHALL BE TYPE USE-2, RHW-2 OR XHHW-2.
- CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED, # 10 AND SMALLER SHALL BE SOLID.
- D. THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE #12 AWG. LAYOUT OF BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS SHALL BE FOR MAXIMUM ECONOMY AND EFFICIENCY.
- E. THE SECONDARY SERVICE, FEEDERS AND BRANCH CIRCUITS SHALL BE COLOR CODED AS FOLLOWS:

PHASE	208/120V	480/277V
Α	BLACK	BROWN
В	RED	ORANGE
С	BLUE	YELLOW
NEUTRAL	WHITE	NATURAL GRAY
GROUND	GREEN	GREEN

- F. TAG ALL FEEDERS IN ALL PULL BOXES AND IN ALL GUTTER SPACE AND WIREWAYS THROUGH WHICH THEY PASS.
- G. MAKE SPLICES IN FEEDER TAPS IN PANEL BOX GUTTERS WITH PRESSURE TYPE CONNECTORS.
- H. SPLICES IN CIRCUITS SHALL BE TWISTED AND MADE MECHANICALLY TIGHT. SECURE WITH SCOTCHLOCK OR PIGTAIL CONNECTORS. CRIMP TYPE CONNECTORS SHALL NOT BE USED.

WIRING DEVICES

LIGHT FIXTURE

MODIFIERS:

3 = 3-WAY SWITCH

4 = 4-WAY SWITCH

LIGHT FIXTURE TO ALWAYS BE ON

BELOW; SEE WIRING DEVICE SCHEDULE

- A. WIRING DEVICES SHALL BE OF THE SPECIFICATION GRADE UNLESS OTHERWISE SPECIFIED. ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. SWITCHES SHALL BE MANUFACTURED BY LEVITON OR APPROVED EQUAL
- B. SINGLE POLE SWITCHES SHALL BE 120 VOLTS, RATED AT 20 AMPERES, QUIET OPERATION TYPE, COLOR OF SWITCH AND DEVICE PLATE AS DIRECTED BY ARCHITECT.
- C. THREE WAY SWITCHES SHALL BE 120 VOLT 20 AMPERES.

SINGLE POLE SWITCH ON NORMAL CIRCUIT; WALL-MOUNTED AT 48"

AFF UNO; WHERE SHOWN, "a" INDICATES LAMPS CONTROLLED BY

SWITCH; WHERE SHOWN, "XX" INDICATES MODIFIER AS LISTED

D. SWITCH AND RECEPTACLE PLATES SHALL BE PLUMB AND SHALL FIT FLAT AGAINST WALL. FINISH AS DIRECTED BY

- ALL SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS SHALL BE TAKEN FROM ARCHITECTS DRAWINGS OTHERWISE NOTED.
- MULTIPLE DEVICES AT A COMMON LOCATION SHALL BE INSTALLED IN A COMMON MULTIGANG DEVICE PLATE.
- G. STANDARD DUPLEX RECEPTACLES SHALL BE NEMA 5-20 R, BACK AND SIDE WIRED. OTHER DEVICES SHALL BE AS INDICATED ON THE DRAWINGS.
- H. ALL OUTDOOR RECEPTACLES SHALL BE WEATHERPROOF RATED WHEN THE ATTACHMENT PLUG IS INSERTED.

9. PULL BOXES, JUNCTION BOXES AND OUTLET BOXES

- A. PULL BOXES, JUNCTION BOXES AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD GAUGE SHEET STEEL.
- B. PROVIDE PULL BOXES AND JUNCTION BOXES IN RACEWAYS TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED AND TO FULFILL MINIMUM CODE REQUIREMENTS.
- PULL BOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR WIRES AND CABLE ARE MAINTAINED.
- PROVIDE AND INSTALL ALL REQUIRED JUNCTION AND PULL BOXES REGARDLESS WHETHER INDICATED ON DRAWINGS OR

10. ELECTRICAL IDENTIFICATIONS

- A. FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANELBOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT. FOR SWITCHBOARDS AND SWITCHGEAR PROVIDE NAMEPLATES FOR EACH FEEDER AND/OR BRANCH CIRCUIT. IN OUTDOOR LOCATIONS, LABELS SHALL BE APPLIED USING TWO-PART EPOXY THAT IS WEATHERPROOF AND SUNLIGHT RESISTANT. LETTERS SHALL BE APPROXIMATELY 1/2-INCH HIGH EXCEPT WHERE RESULTANT NAMEPLATE SIZE EXCEEDS EQUIPMENT SIZE. NAMEPLATE LETTERING MAY BE ADJUSTED ACCORDINGLY WITH APPROVAL OF THE ENGINEER. NAMEPLATES SHALL REMAIN LEGIBLE. EMBOSSED, SELF-ADHESIVE PLASTIC TAPE IS NOT ACCEPTABLE FOR MARKING EQUIPMENT. NAMEPLATE MATERIAL COLORS SHALL B AS FOLLOWS:
- a. BLUE SURFACE WITH WHITE CORE FOR 120/208-VOLTS EQUIPMENT.
- b. BLACK SURFACE WITH WHITE CORE FOR 277/480-VOLTS EQUIPMENT,

11. GROUNDING

- ALL ELECTRICAL SYSTEMS SHALL BE GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, THE LOCAL UTILITY COMPANY AND ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION. PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL.
- A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL CONDUITS SIZED IN ACCORDANCE WITH THE EQUIPMENT GROUNDING CONDUCTOR TABLE NEC 250.122 OF THE NATIONAL ELECTRICAL
- GROUND CLAMPS SHALL BE LISTED SPECIFICALLY FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL GROUND BOTH CONDUCTOR AND CONDUIT.

12. TEMPORARY LIGHTING AND POWER

- A. FURNISH AND INSTALL WIRING FOR ADEQUATE TEMPORARY LIGHT AND POWER FOR THE PROJECT.
- B. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS AT ALL TIMES.

ADEQUATE FOR ALL CONSTRUCTION NEEDS.

- C. FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.
- D. REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS OR BLOWN E. SYSTEM SHALL BE NOMINALLY 120/240 VOLT, 3 PHASE, 4 WIRE

13. SHOP DRAWINGS

- A. SUBMIT TO THE ARCHITECT FIVE (5) SETS OF SHOP DRAWINGS FOR THE FOLLOWING:
- f. OVER CURRENT PROTECTIVE DEVICES, CIRCUIT BREAKERS AND FUSES
- g. PANEL BOARDS

SIMPLEX RECEPTACLE AND OUTLET,

SPECIAL PURPOSE RECEPTACLE AND OUTLET,

NF 30 AMP NON-FUSED DISCONNECT SWITCH. NUMBER OF

FURNISHED DISCONNECT WITH EQUIPMENT

REFER TO DRAWINGS FOR NEMA CONFIGURATION

30 POLES AND VOLTAGE PER CIRCUIT FED. REFER TO SCHEDULE.

NF 30 AMP NON-FUSED, WEATHERPROOF DISCONNECT SWITCH.

NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED. REFER TO SCHEDULE.

20A, 125V, 3W

h. WIRING DEVICES INCLUDING SWITCHES AND RECEPTACLES

14. SYSTEM SHUT DOWNS

A. SHOULD IT BE NECESSARY TO SHUT DOWN ANY EXISTING ELECTRICAL SYSTEM, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND BUILDING MANAGEMENT, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE REQUESTED DATE. ALL SHUT DOWN WORK SHALL BE DONE AFTER NORMAL BUILDING OPERATING HOURS, IF SO DIRECTED BY THE AFOREMENTIONED PARTIES, AT NO ADDITIONAL COST

15. JOB COMPLETION

- A. AT THE COMPLETION OF THE JOB THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL WORK AREA, RESTORING ANY DAMAGED OR DEFACED SURFACES OF FIXTURES OR EQUIPMENT TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SYSTEMS UNLESS THE OWNER REQUESTS THAT THEY BE LEFT IN PLACE
- THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY TEST ALL NEW ELECTRICAL SYSTEMS, INCLUDING THOSE INSTALLED BY OTHERS AND WIRED BY ELECTRICAL CONTRACTOR. CORRECT ALL FAULTY CONDITIONS AT NO EXTRA COST. ALL PANELS SHALL BE BALANCED SO THAT THERE IS NO MORE THAN 10% DIFFERENCE IN PHASE CURRENTS UNDER NORMAL OPERATING CONDITIONS.MODIFY PANEL SCHEDULES AS REQUIRED.
- THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER THAT ALL ELECTRICAL DEVICES AND SYSTEMS ARE FULLY FUNCTIONAL, AND SHALL GIVE INSTRUCTIONS IN THEIR OPERATION AS REQUESTED.
- D. THE CONTRACTOR SHALL OBTAIN, AND GIVE TO THE OWNER, AN UNDERWRITER'S CERTIFICATE COVERING ALL NEW ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES NOTED BY THE INSPECTOR, AT NO EXTRA COST, UNTIL SUCH CERTIFICATE IS RECEIVED.
- E. ALL WORK SHALL BE GUARANTEED TO BE FULLY OPERATIONAL AND FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.
- PROVIDE INITIAL START UP AND OWNER TRAINING, PROVIDE A LOAD TEST, START-UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.
- G. ELECTRICAL CONTRACTOR SHALL BE PRESENT FOR SCO FINAL ACCEPTANCE INSPECTION.

16. SUBSTITUTIONS

- A. THE CONTRACTOR IS REQUIRED TO BID ON THIS PROJECT WITH THE UNDERSTANDING THAT ALL EQUIPMENT WILL BE PROVIDED AS
- B. ANY SUBSTITUTIONS FROM THE SPECIFIED ITEMS MUST BE INCLUDED WITH A NUMBER INDICATING THE SAVINGS OVER THE SPECIFIED ITEMS THAT THE OWNER WILL REALIZE.
- C. PROPOSED SUBSTITUTIONS SHALL BE PRESENTED TO THE ARCHITECT FOR CONSIDERATION PRIOR TO BID DATE PER REQUIREMENTS OF SPECIFICATION SECTION 016000.3.01. NO CONSIDERATION SHALL BE GIVEN TO SUBSTITUTION REQUESTS AFTER RECEIPT OF BIDS.

GENERAL NOTES

- WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED DURING AND AFTER CONSTRUCTION; FULL WIDTH OF THE EQUIPMENT.
- THE PROJECT SHALL USE GROUND-FAULT CIRCUIT INTERRUPTERS.
- ALL 120 VOLT SINGLE PHASE, 15 AND 20 AMP RECEPTACLE OUTLETS ON CONSTRUCTION SITE, WHICH ARE NOT A PART OF THE PERMANENT WIRING OF THE BUILDING OR STRUCTURE AND WHICH ARE IN USE BY EMPLOYEES, SHALL HAVE APPROVED GROUND-FAULT CIRCUIT INTERRUPTERS FOR PERSONAL PROTECTION.
- RECEPTACLES ON A TWO-WIRE, SINGLE-PHASE PORTABLE OR VEHICLE-MOUNTED GENERATOR RATED NOT MORE THAN 5KW, WHERE THE CIRCUIT CONDUCTORS OF THE GENERATOR ARE INSULATED FROM THE GENERATOR FRAME AND ALL OTHER GROUNDED SURFACES, NEED NOT BE PROTECTED WITH GROUND-FAULT CIRCUIT.
- INTERRUPTERS OR AN ASSURED EQUIPMENT GROUNDING CONDUCTOR PROGRAM TO PROTECT EMPLOYEES AND IT SHALL ESTABLISH AND IMPLEMENT AN ASSURED EQUIPMENT GROUNDING CONDUCTOR PROGRAM FOR THE CONSTRUCTION SITES COVERING ALL CORD SETS, RECEPTACLES WHICH ARE NOT A PART OF THE PERMANENT WIRING OF THE BUILDING OR> STRUCTURE, AND EQUIPMENT CONNECTED BY CORD AND PLUG WHICH ARE AVAILABLE FOR USE ALL LABELING SHALL BE PERMANENT, DURABLE AND APPROVED BY THE CODE ENFORCEMENT OFFICIAL
- 6. ALL CORRIDOR, WALKWAY OR BREEZEWAY LIGHTING SHALL BE LISTED ADA COMPLIANT OR BE MOUNTED 80" AFF TO THE BOTTOM OF THE FIXTURE A NOTE NEEDS TO BE ADDED TO REFLECT THAT APPENDIX 5 FROM THE ENERGY CODE WILL BE REQUIRED AT END OF PROJECT PRIOR TO CERTIFICATE OF OCCUPANCY AND CERTIFIED BY THE ENGINEER
- HEAT TAPE INSTALLATION SHALL CONFORM TO NEC 427.22 REQUIREMENTS.





0

0 0 \Box $\mathbf{\Omega}$

5 cation vision Office e Ö 1 J. 6 Se≥ Office High Paint dular DOT ŽŽ Ā

STATE CONSTRUCTION ID.# 22-24690-01*A* EQUIPMENT NUMBER 1320-0008-3222 REVISIONS

DATE

DATE ISSUED: 9/5/20 *DRAWN BY:* CCM CHECKED BY: AB

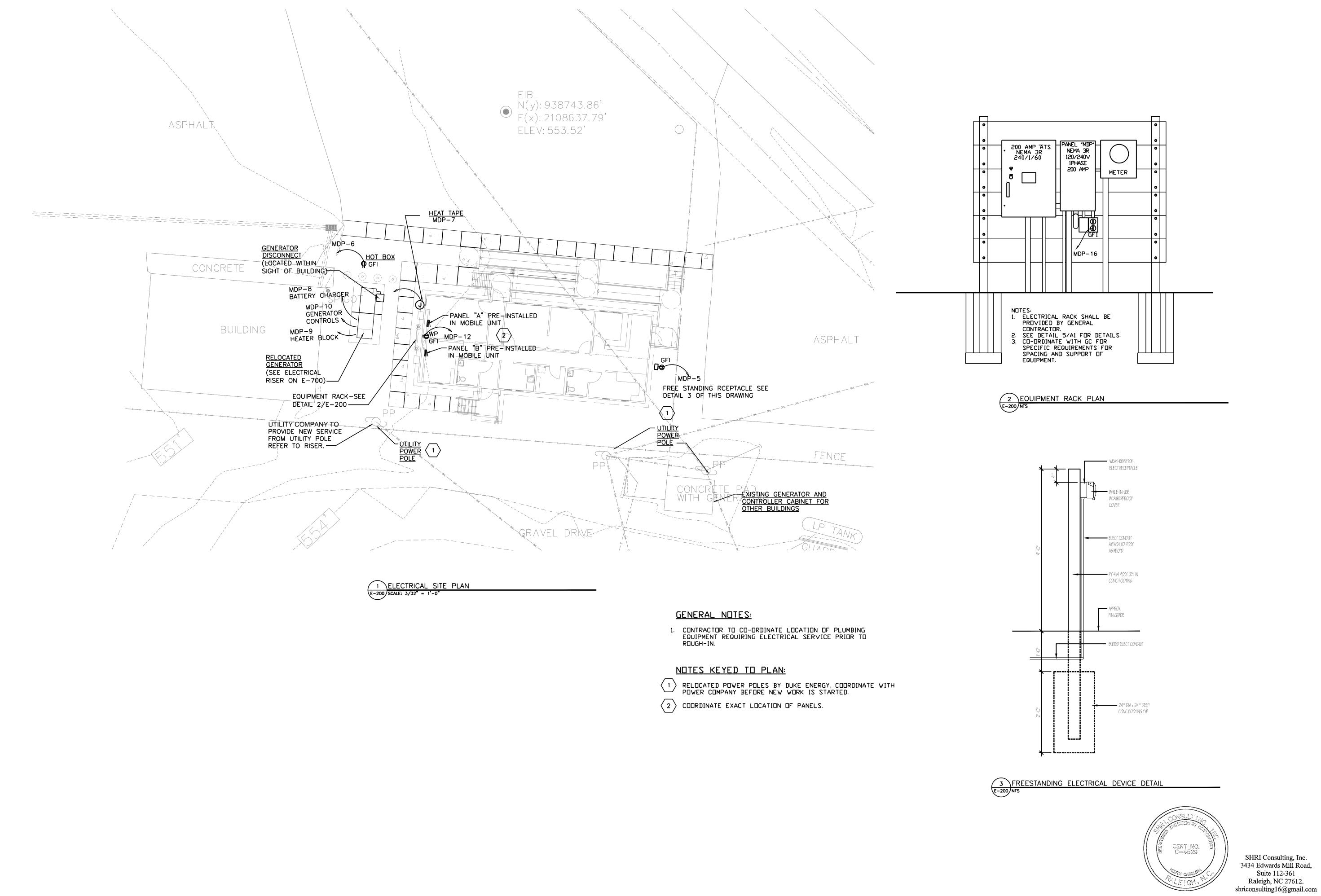
NO.

SHEET NO. SHRI Consulting, Inc. 3434 Edwards Mill Road. Suite 112-361 Raleigh, NC 27612. shriconsulting16@gmail.com





CONCEALED RACEWAY. INDICATES 2#12, 1#12 NEUTRAL AND D = DIMMER SWITCH 1#12 GROUND. 2#12, 1#12 NEUTRAL AND 1#12 WP = WEATHERPROOF COVER GROUND. WILL CONTINUE UNTIL 3 WIRE BRANCH T = TIMER SWITCH CEILING MTD OR ABOVE CEILING OUTLET BOX WITH CIRCUIT CHANGES TO A 2 WIRE BRANCH CIRCUIT. O = OCCUPANCY SENSING BLANK COVER DO = DIMMER OCCUPANCY SENSOR CONCEALED RACEWAY. ALL RACEWAYS WITH OTHER THAN M = FLUSH MTD MANUAL MOTOR STARTER SWITCH WITHOUT FLUSH MTD DUPLEX RECEPTACLE AND OUTLET, #12 CONDUCTORS WILL HAVE WIRE AND CONDUIT SIZES OVERLOAD HEATERS 20A, 125V, 3W DESIGNATED ON PLAN OR RISER DIAGRAMS. FLUSH MTD ABOVE COUNTER DUPLEX RECEPTACLE AND OUTLET, WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH 20A, 125V, 3W **RACEWAY NOTES:** CEILING MOUNTED OCCUPANCY SENSOR LIGHT SWITCH 1. ALL RACEWAYS SHALL CONTAIN A SEPARATE GREEN FLUSH MTD MANUAL MOTOR STARTER EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE SWITCH WITH OVERLOAD HEATERS WITH NEC 250-122. MOTOR COMBINATION TELE/DATA OUTLET 2. IF NO HOME RUN OR CIRCUIT SYMBOL IS SHOWN, PROVIDE 2#12, 1#12G TO THE CIRCUIT NUMBER INDICATED MOTOR STARTER SEE FLOOR PLANS FOR SIZE TV OUTLET ADJACENT TO FIXTURE OR OUTLET.





7

SITE

ELECTRICAL

Modular Office Relocation for NCDOT Highway Division 5
Bridge Maintenance Office STATE CONSTRUCTION ID.# 22-24690-01A DATE

EQUIPMENT NUMBER: 1320-0008-3222 REVISIONS

DATE ISSUED: 9/5/2023
DRAWN BY: CCM
CHECKED BY: AB

NO. DATE ISSUED: 9/5/202 DRAWN BY: CCM

CHECKED BY: AB

RIC 0 SCHED

for 5 Modular Office Relocation fo NCDOT Highway Division 5 Bridge Maintenance Office

POLE TRIIP AMPS 2 100 PANEL B

				ı	20		
	CONNE	CTED LOAD PHASE TO	TALS (VA)				
	17430	16180	#				
	CONNECTED LOAD					DEMAND LOAD	33.6
	(VA)	DEMAND FACTOR	DEMAND LOAD (VA)			SPARE CAPACITY	14.4
OLING AND HEATING	0	1.00	0.0			SPARE CAPACITY	60.0
ATING	0	1.00	0.0			SPARE CAPACITY	30.0
HTING	0	1.25	0.0				
CEPTACLES (0-10 KVA)	860	1.00	860.0				
CEPTACLES (OVER 10 KVA)	0	0.50	0.0				
JIPMENT	1500	1.00	1500.0				
TOR	0	1.00	0.0				
CEST MOTOR	0	1 25	0.0				

1250.0

30000.0

MDP

EXISTING ATS SCHEDULE:

- 1. THOMSON TECHNOLOGY MODEL# TSC 800, AUTOMATIC TRANSFER CONTROLLER, OPEN TRANSITION, 200 AMP, 120/240 VOLT, 1 PHASE WITH NEMA 3R SECURE ENCLOSURE WITH GFI PROTECTION. SERVICE ENTRY RATED WITH 200 MAIN OVERCURRENT PROTECTION.
- 2. TO BE TESTED AND INSTALLED BY ELECTRICAL CONTRACTOR, PROMDED BY NCDOT

EXISTING GENERATOR SCHEDULE:

- GENERAC MODEL 4377620100 STANDBY GENERATOR WITH (1) AUTOMATIC TRANSFER SWITCH. THE GENERATOR RUNS ON DIESEL FUEL WITH 72 HOUR MIN RUN CAPACITY. VERIFY UNIT HAS ALL PARTS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE DELIVERY VOLTAGE SHALL BE 120/240 VOLT, 1 PHASE. WITH 10 DUAL RATED BATTERY CHARGER, AUTOMATIC VOLTAGE REGULATOR, AUTOMATIC LOW OIL PRESSURE AND HIGH TEMPERATURE SHUTDOWN. THE AUTOMATIC TRANSFER SWITCH SHALL TRANSFER FROM THE UTILITY AUTOMATICALLY WITHIN 30 SECONDS. PROVIDE A SERVICE RATED DISCONNECTING MEANS WITH OVERCURRENT PROTECTION AT THE GENERATOR LOCATION. PROPERLY GROUND THE GENERATOR AND SERVICE EQUIPMENT PER NEC. PROVIDE INITIAL START UP AND OWNER TRAINING. PROVIDE A LOAD TEST, START-UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.
- 2. PROVIDE A FULL TANK OF FUEL AT COMPLETION OF ALL REQUIRED TESTS.
- 3. TO BE TESTED AND INSTALLED BY ELECTRICAL CONTRACTOR, PROVIDED BY NCDOT
- 4. GENERATOR SET SHALL BE TESTED IN THE PRESENCE OF AND TO THE SATISFACTION OF THE STATE ELECTRICAL INSPECTOR AS PART OF THE FINAL INSPECTION AND CLOSE-OUT BY THE STATE CONSTRUCTION OFFICE.

PANELBOARDS

GENERAL

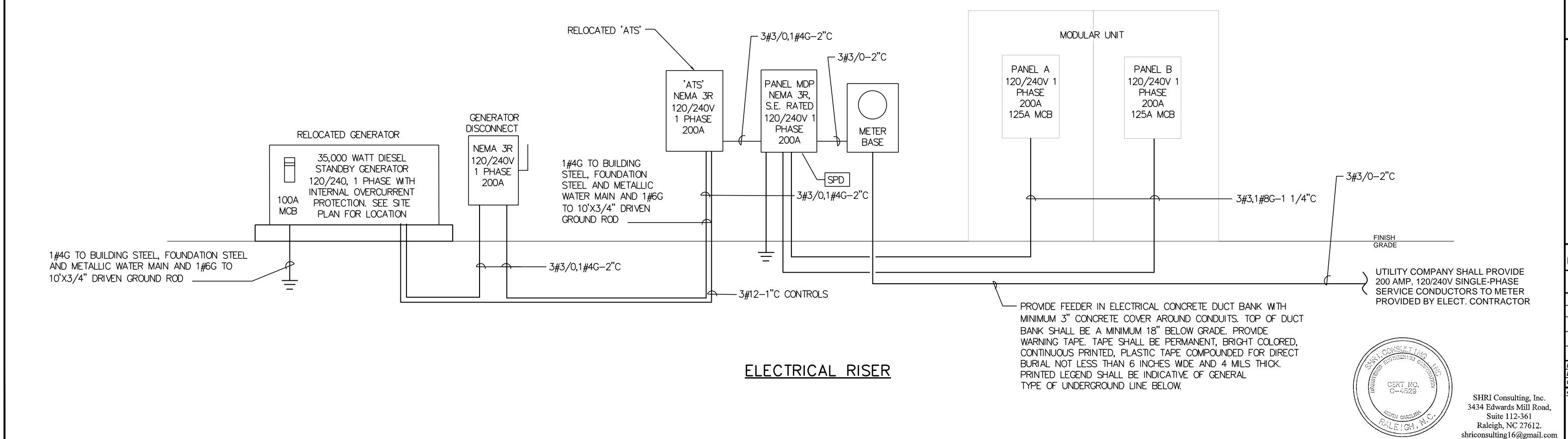
MAIN O.C. DEVICE (A): MCB

5 OUTDOOR GFI RECEPTACLE
7 HEAT TAPE (GFPE BREAKER)

1. SERVICE EQUIPMENT (PER NEC 110.24(A)) AND NEW PANELS (PER NEC 408.6) MUST BE LABELED WITH THE AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED. THE ARC-FLASH HAZARD WARNING LABELS SHOULD BE INSTALLED WHERE REQUIRED BY NEC 110.16(A). PANEL MDP MUST BE PROVIDED WITH A LABEL THAT IDENTIFIES ITS SOURCE OF POWER PER NEC408.4(B).

PANEL

- 2. PROVIDE SIGN PLACED AT THE SERVICE-ENTRANCE EQUIPMENT TO INDICATE THE TYPE AND LOCATION OF THE STANDBY GENERATOR THAT WILL SUPPLY THE BUILDING PER NEC 702.7(A). THE SIGN REQUIREMENT OF NEC 702.7(B)
- 3. PROVIDE SURGE PROTECTION TYPE 2 AT PANEL MDP.

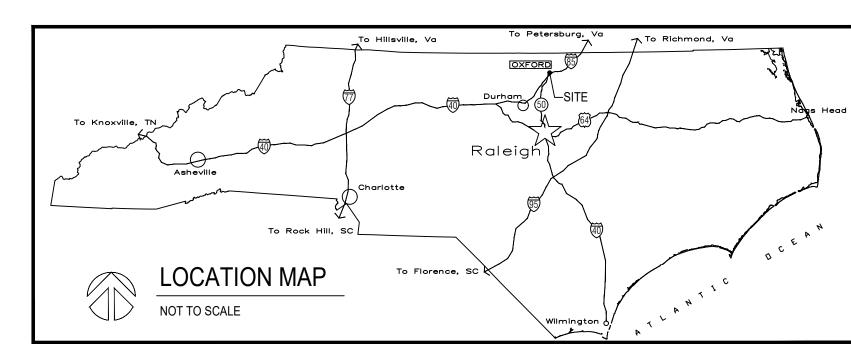


MODULAR OFFICE RELOCATION FOR NCDOT BRIDGE MAINTENANCE OFFICE

NCDOT HIGHWAY DIVISION 3 NC DEPT OF TRANSPORTATION 5679 CORNWALL ROAD, OXFORD, NORTH CAROLINA 27565

ARCHITECT:

FACILITIES DESIGN UNIT NCDOT FACILITIES MANAGEMENT DIVISION 1 SOUTH WILMINGTON STREET RALEIGH, NC 27601



LEGEND-LIFE SAFETY

****** EGRESS PATH

EXIT DISCHARGE

EXIT TRAVEL DIRECTION

ILLUMINATED EXIT SIGN

ILLUMINATED DOOR SIGN:

"NOT A HANDICAP EXIT"

OCCUPANCY / GROSS AREA ,

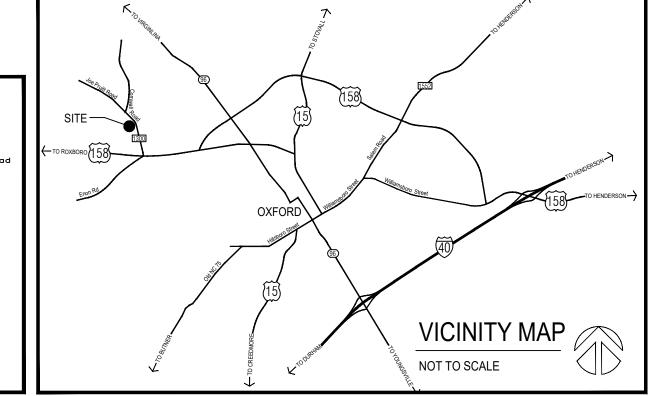
CALCULATED OCCUPANT LOAD

EMERGENCY LIGHT

EGRESS CAPACITY

34" CLEAR MINIMUM DOOR WIDTH

ACTUAL EGRESS LOAD

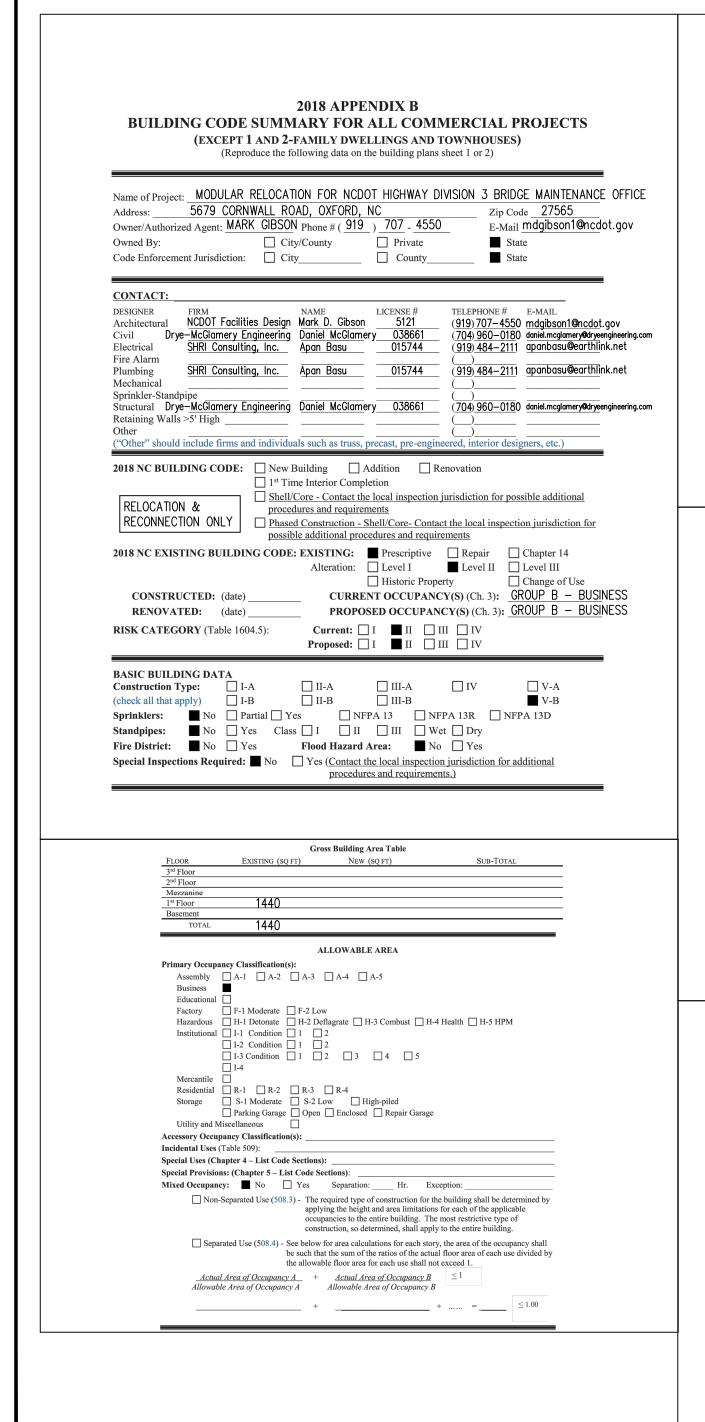


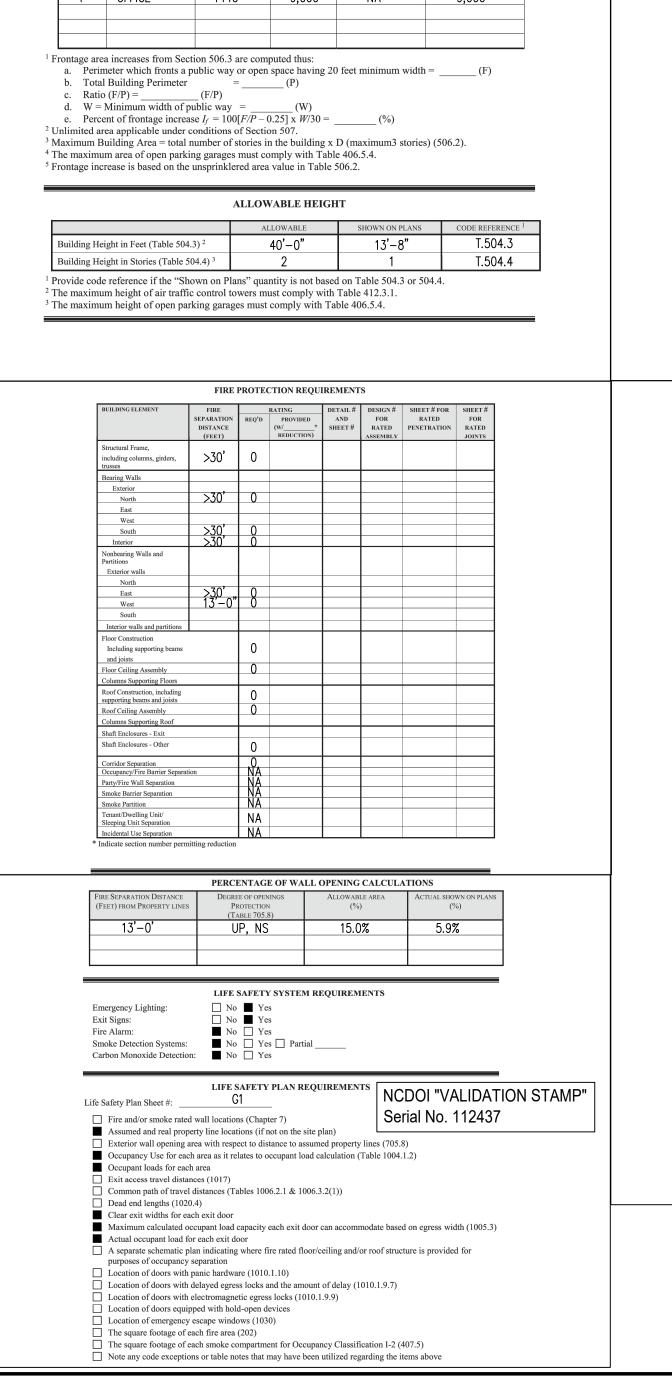
CODE DATA SUMMARY, LIFE SAFETY

PLAN & DRAWING INDEX

S-0 STRUCTURAL GENERAL NOTES

S-1 DESIGN DATA





BLDG AREA PER TABLE 506.2⁴ AREA FOR FRONTAGE ALLOWABLE AREA PER

OFFICE	MALE EXIST'G 1 NEW REQ'D 1	waterclo	_	URINALS	MALE 1	LAVATORII FEMALE 1	UNISEX	SHOWERS /TUBS	DRINKING REGULAR 0	G FOUNTAINS ACCESSIBLE 0	
Special ap	proval: (Local	Jurisdict		PECIAL ment of In			PI, DHHS	S, etc., des	cribe below	v)	
The follow also be pro	REQUIREM ving data shall byvided. Each Do ance method, s lesign.	oe conside esigner sh	ered minimu all furnish t	the requir	ny specia red portio	l attribute	required project in	to meet th	ne energy co	n data sheet.	
Exempt B	uilding envelo uilding: limate Zone: Iethod of Com	No 3A apliance:	Yes (Provide	5A de P 00.1 P	atutory refe erforman	ce		criptive	ection is not a	pplicable)	
	U-Valu R-Valu Skyligh	sembly (ention of as the of total the of insulates in each U-Value	ach assemb sembly: assembly:	SINGI	STING T	O REMA		D <u></u> FRAM	ING, BAT	T INSULATIO	DN
Е	U-Valu R-Valu	otion of as e of total e of insula gs (windo U-Value Solar he	sembly: assembly: ation: ws or doors of assemblat gain coef on factor:	EXIST s with gla ly:	ING TO	WOOD F		<u>, B</u> ATT I	NSULATIO	N	
W	U-Valu	tion of as	sembly:								
F	U-Valu	tion of as	sembly: assembly:	WOOD	FRAMIN	IG, BAT REMAII	T INSUL	<u>AT</u> ION			
		tion of as	assembly: ation:	ent:							

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

ACCESSIBLE PARKING

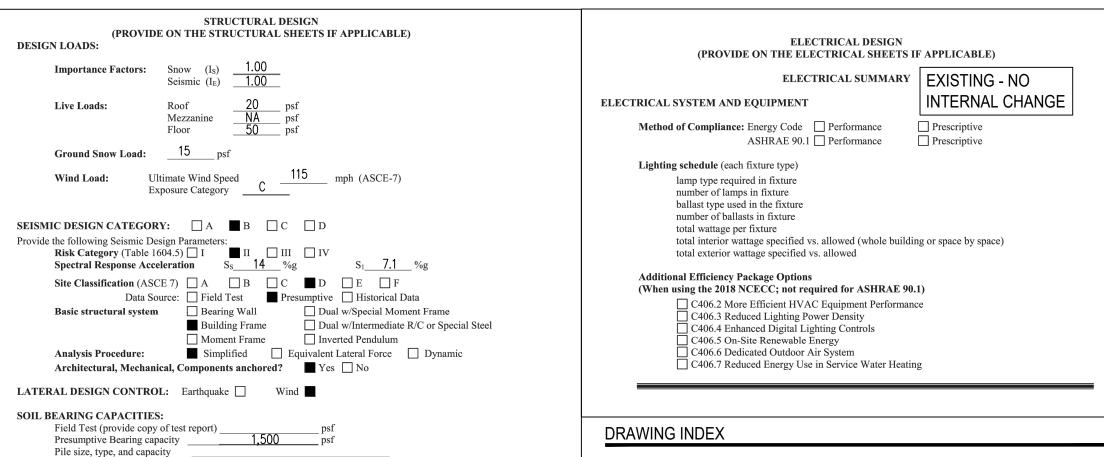
(SECTION 1106)

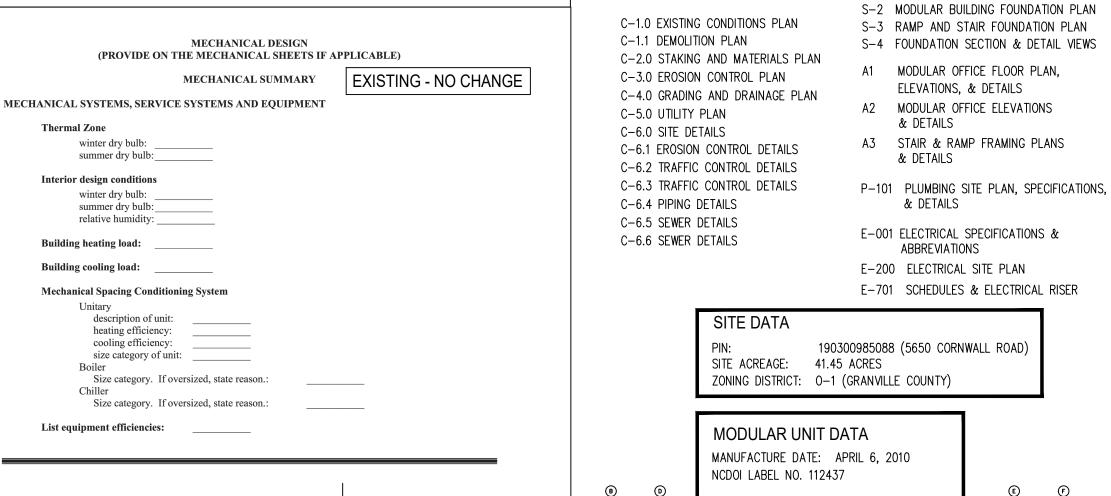
TOTAL#OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED

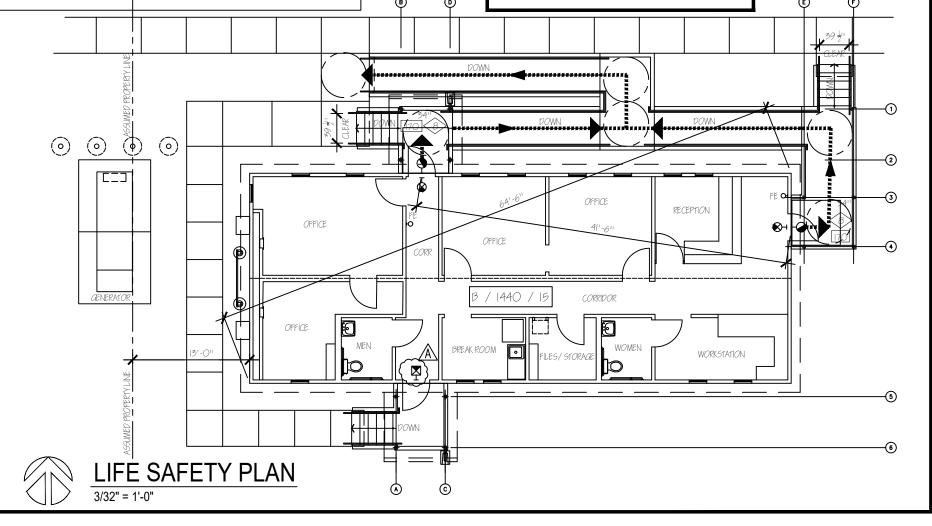
REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH

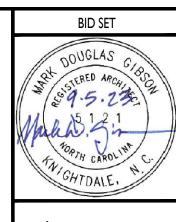
5' ACCESS AISLE 132" ACCESS 8' ACCESS AISLE AISLE AISLE AISLE

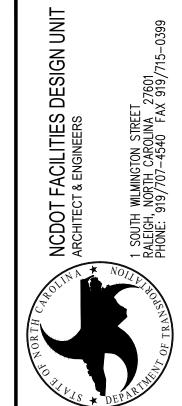
EXISTING - NO CHANGE











for CODE DATA SUMMARY & DRAWING INDE

Modular Office Relocation fo NCDOT Highway Division 5 Bridge Maintenance Office

STATE CONSTRUCTION
D.# 22-24690-01A

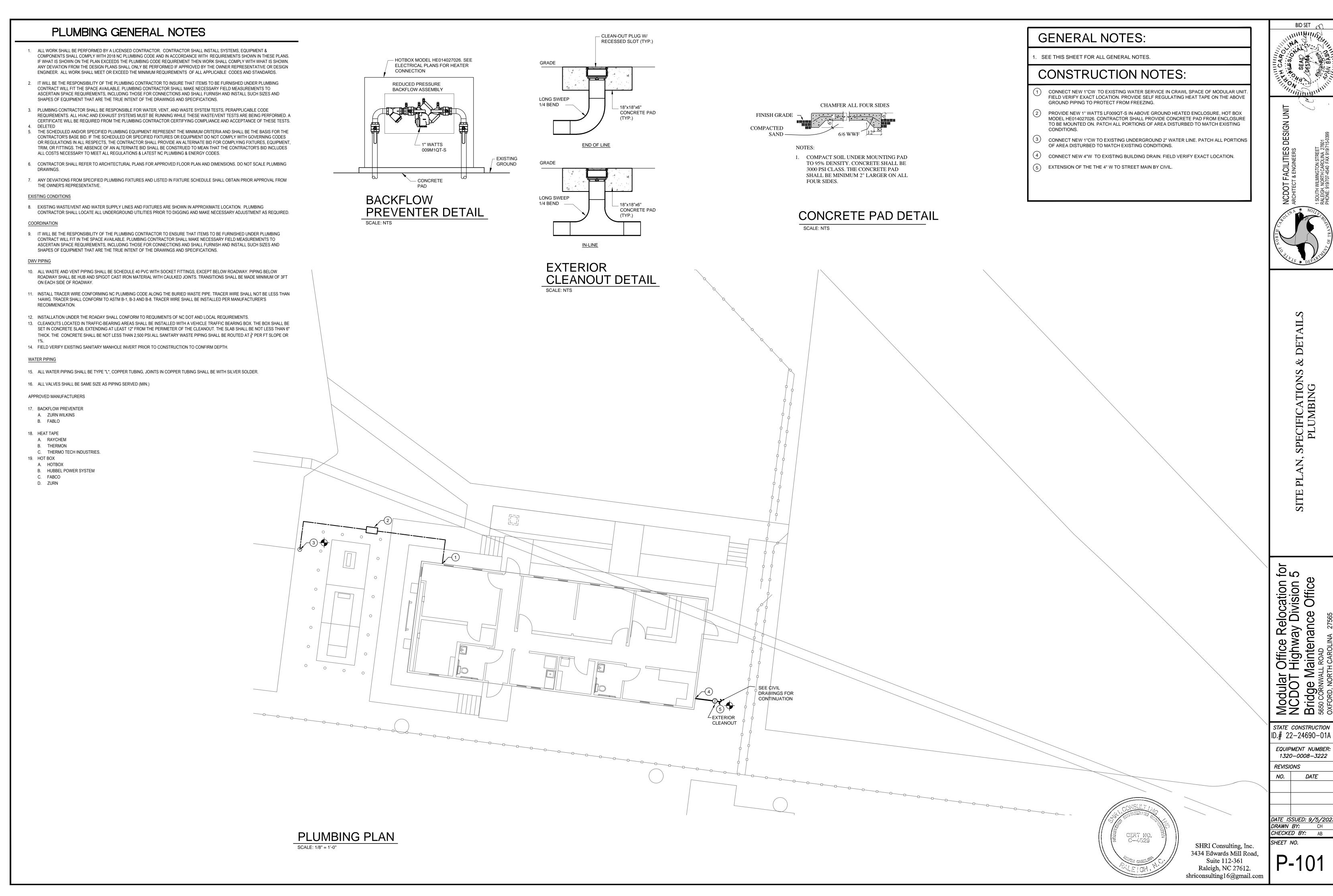
EQUIPMENT NUMBER:
1320-0008-3222

REVISIONS

NO. DATE

DATE ISSUED: 9/5/202 DRAWN BY: MDG CHECKED BY: MDG

G1



STATE CONSTRUCTION

ID.# 22-24690-01A EQUIPMENT NUMBER: 1320-0008-3222

- 1.02. ALL METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND PROVIDE ALL NECESSARY BRACING OR SHORING, TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 1.03. COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND GEOTECHNICAL. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS.
- 1.04. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE. THE STRUCTURAL DRAWINGS SHALL NOT BE CONSIDERED SEPARATLEY FOR PURPOSES OF BIDDING THE STRUCTURAL WORK.
- 1.05. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.

2. MATERIAL STRENGTHS

-	THE TRUE OF TENOTINO		
2.01.	CONCRETE (fc AT 28 DAYS) FOOTINGS	4,000 PSI 3,000 PSI 3,000 PSI R ENTRAINMENT *	MAX w/c R 0.50 0.50 0.50
2.02.	REINFORCING STEEL (Fy) REBAR (ASTM A615)	60,000 PSI 65,000 PSI	
2.03.	MASONRY (MINIMUM CONPRESSIVE STRENGTH PER UNIT STRENGTH METH NET AREA COMPRESSIIVE STRENGTH OF CONCRETE MASONRY UNITS (TYPE M OR S MORTAR). NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY (fm) MORTAR TYPE 'M' TYPE 'S' TYPE 'N' GROUT (fc)	1,900 PSI 1,500 PSI 2,500 PSI 1,800 PSI 750 PSI 3,000 PSI	

3. SUBMITTAL

3.01. SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO DRYE-MCGLAMERY ENGINEERING FOR REVIEW, AS REQUIRED PER PROJECT SPECIFICATIONS. SUBMITTALS SHALL INCLUDE: CONCRETE MIX DESIGNS, GROUND ANCHOR PRODUCT SPECIFICATIONS, CONCRETE REBAR SHOPS, AND MASONRY REBAR SHOPS.

- 3.02. DRYE-MCGLAMERY ENGINEERING SHALL HAVE 15 DAYS AFTER THE DATE OF RECEIPT OF THE SUBMITTAL FOR REVIEWING AND COMMENTING ON ANY SUBMITTALS.
- 3.03. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL REVIEW SUBMITTAL PRIOR TO SUBMITTING THEM TO DRYE-MCGLAMERY ENGINEERING. HIGHLIGHT, CLOUD, OR OTHERWISE INDICATE ITEMS THAT DEVIATE FROM THE CONTRACT DOCUMENTS ON THE SUBMITTAL.

4. FOUNDATION AND SLAB ON GRADE

2.04. SOIL/SUBGRADE PROPERTIES

- 4.01. THE FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF. THE ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED IN THE FIELD BY THE OWNERS GEOTECHNICAL ENGINEER.
- 4.02. CENTER COLUMN FOOTINGS ON COLUMN CENTERLINES UNLESS NOTED OTHERWISE.
- 4.03. WALL FOOTINGS ARE CENTERED ON FOUNDATION WALLS UNLESS NOTED OTHERWISE.
- 4.04. COLUMN AND WALL FOOTINGS SHALL BEAR ON ORIGINAL, UNDISTURBED SOIL OR COMPACTED FILL, BUT NOT HIGHER THAN THE MINIMUM DEPTH SHOWN ON DRAWINGS.
- 4.05. CONTRACTOR TO KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION.
- 4.06. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THE DESCRIBED ASSUMED VALUES SHALL BE REPORTED TO THE ARCHITECT AND DRYE-MCGLAMERY ENGINEERING, BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

5. REINFORCED CONCRETE

- 5.01. THE OWNER'S SPECIAL INSPECTOR SHALL VERIFY THAT CONCRETE WORK AND REINFORCEMENT ARE FABRICATED AND PLACED IN CONFORMITY WITH THE LATEST EDITION OF "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), THESE DOCUMENTS, AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301). THE GC SHALL NOTIFY THE TESTING AGENCY WHEN WORK REINFORCING STEEL IS TIED IN ITS FINAL LOCATION FOR VERIFICATION PRIOR TO POURING ANY CONCRETE.
- 5.02. THE GC SHALL SUBMIT ALL CONCRETE MIXES FOR REVIEW ALONG WITH STANDARD ACI STRENGTH DOCUMENTATION PRIOR TO USE.

CONCRETE EXPOSED TO WEATHER	
#6 THROUGH #18 BARS	2 IN.
#5 BAR, W31 OR D31 WIRE AND SMALLER	1 1/2 IN
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
#14 AND #18 BARS	1 1/2 IN
#11 BAR AND SMALLER	1 IN.

- 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 REINFORCING.
- 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 DETAILS WHERE PROVIDED. OTHERWISE BARS SHALL BE CLASS "B" LAP SPLICED IN LONGEST CONVENIENT LENGTHS WITH ADJACENT LAPS STAGGERED 3'-0" MINIMUM. BARS SHALL BE CONTACT SPLICED OR SPACED A MINIMUM 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 TIMES 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.
- 5.10. ANCHOR BOLTS SHALL BE SET AND CONCRETE BEARING SURFACE FOR COLUMNS SHALL BE FINISHED TO THE FOLLOWING TOLERANCE:
 - A. ELEVATION OF CONCRETE SURFACE PLUS OR MINUS 3/8"
 - B. ELEVATION TOP OF ANCHOR BOLTS PLUS 1" TO MINUS 3/8".
 - C. OUT OF POSITION OF ANCHOR BOLTS PLUS OR MINUS 1/8".
- 5.11. ALL CONCRETE USED IN FOUNDATION CONSTRUCTION SHALL MEET THE FOLLOWING EXPOSURE CLASS REQUIREMENTS
 - A. FREEZE-THAW EXPOSURE: F1

6. MASONRY

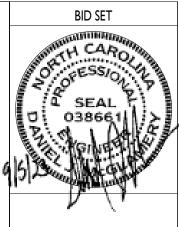
- 6.01. MASONRY UNITS SHALL BE OF STRUCTURAL LIGHTWEIGHT CONCRETE CONFORMING TO ASTM C90 TYPE N-1 (MAINTAIN MOISTURE CONTROL DURING STORAGE AND ERECTION AT JOB SITE).
- 6.02. PROVIDE HORIZONTAL LADDER-TYPE WIRE REINFORCING AT 16" C/C MAXIMUM.
- 6.03. SPLICES IN HORIZONTAL AND VERTICAL REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR A MINIMUM OF 24", WHICHEVER IS GREATER.
- 6.04. ALL HEAD AND BED JOINTS SHALL BE FULL.
- 6.05. TEST PRISMS TO VERIFY MASONRY WALL ASSEMBLY STRENGTH SHALL BE MADE AND TESTED IN ACCORDANCE WITH THE PROJECT GENERAL NOTES.
- 6.06. PRISMS SHALL BE TESTED BY AN APPROVED TESTING LABORATORY.
- 6.07. SLUMP OF GROUT SHALL BE IN THE RANGE OF 7 TO 11 INCHES AND SHALL BE RECONSOLIDATED BY THE MECHANICAL VIBRATION PER ACI 530.1 TYP.
- 6.08. VERTICAL GROUTING OF MASONRY WALL SHALL BE PER TYPICAL CMU DETAILS. HORIZONTAL GROUTING OF MASONRY WALLS SHALL BE A CONTINUOUS PROCEDURE BETWEEN CONTROL JOINTS.

7. DIMENSION LUMBER FRAMING

- 7.01. ALL DIMENSION LUMBER USED FOR FRAMING EXTERIOR STAIRS, RAMPS, DECKS, ETC. SHALL BE PRESSURE TREATED SOUTHERN PINE NO.2 LUMBER. ALL DIMENSION LUMBER IN CONTACT WITH OR EMBEDED IN EARTH, CONCRETE, OR CONCRETE MASONRY SHALL BE PRESSURE TREATED AND RATED FOR GROUND CONTACT, TYP.
- 7.02. THE ENDS OF EACH JOIST SHALL HAVE NOT LESS THAN 1-1/2" OF BEARING ON WOOD SUPPORT AND SHALL BE INCREASED AS REQUIRED BY LOAD. JOIST SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE THE ENDS OF JOISTS ARE NAILED TO A HEADER, BAND OR RIM JOIST. SOLID BLOCKING SHALL BE NOT LESS THAN 2 INCHES IN THICKNESS AND THE FULL DEPTH OF THE JOIST.
- 7.03. NOTHCES ON JOISTS SHALL NOT EXCEED ONE FOURTH THE JOIST DEPTH. HOLES BORED IN JOIST SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE JOIST. NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE JOIST. NOTCHES AND HOLES SHALL NOT BE ALLOWED IN HEADERS, GIRDER, OR BEAMS.

DRYE-MCGLAMERY ENGINEERING STRUCTURAL ABBREVIATIONS

@	AT	LSH	LONG SIDE HORIZONTAL
AB	ANCHOR BOLT	LSV	LONG SIDE VERTICAL
ACI ADDL	AMERICAN CONCRETE INSTITUTE ADDITIONAL	LW LWIC	LIGHT WEIGHT LIGHT WEIGHT INSULATING CONCRETE
ADDL	AMERICAN INSTITUTE OF STEEL	MAS	MASONRY
71100	CONSTRUCTION	MATL	MATERIAL
ALT	ALTERNATE	MAX	MAXIMUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MECH	MECHANICAL
AR	ANCHOR ROD	MEZZ	MEZZANINE
ARCH ASTM	ARCHITECTURAL AMERICAN SOCIETY OF TESTING MATERIALS	MFR MIN	MANUFACTURER MINIMUM
B/	BOTTOM OF	MISC	MISCELLANEOUS
BAL	BALANCE	MK	MARK
BD	BOARD	MO	MASONRY OPENING
BLK	BLOCK OR BLOCKING	MPH	MILE PER HOUR
BLDG BM	BUILDING	MTL NIC	METALNF NEAR FACE NOT IN CONTRACT
BOT	BEAM BOTTOM	NO	NUMBER
B PL	BASE PLATE	NS	NON SHRINK OR NEAR SIDE
BRDG	BRIDGING	NTS	NOT TO SCALE
BRG	BEARING	NW	NORMAL WEIGHT
BRK	BRICK	00	ON CENTER
BTWN BYND	BETWEEN BEYOND	OD OF	OUTSIDE DIAMETER OUTSIDE FACE
CFMF	COLD FORMED METAL FRAMING	OPH	OPPOSITE HAND
CG	CENTER OF GRAVITY	OPNG	OPENING
CIP	CAST IN PLACE	OPP	OPPOSITE
CJ	CONTRACTION OR CONSTRUCTION JOINT	OSHA	OCCUPATIONAL SAFETY AND HEALTH
CJP CL	COMPLETE JOINT PENETRATION	PC	ASSOCIATION
CLR	CENTERLINE CLEAR	PCA	PIECE OR PORTLAND CEMENT PORTLAND CEMENT ASSOCIATION
CMU	CONCRETE MASONRY UNIT	PCI	PRECAST/PRESTRESSED CONCRETE
COL	COLUMN		INSTITUTE
COMP	COMPOSITE	PCC	PRECAST CONCRETE
CONC	CONCRETE	PDF	POWDER DRIVEN FASTENER
CONN CONSTR	CONNECTION CONSTRUCTION	PL PLF	PLATE POUNDS PER LINEAR FOOT
CONT	CONTINUOUS	PLYWD	PLYWOOD
CTR	CENTER	PRCST	PRECAST
DBA	DEFORMED BAR ANCHOR	PROJ	PROJECTION
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI PT	POUNDS PER SQUARE INCH
DIM DIR	DIMENSION DIRECTION	PX	POINT PIER DESIGNATION
DIK	DECK	QTY	QUANTITY
DL	DEAD LOAD	R	RADIUS
DN	DOWN	RD	ROOF DRAIN
DO	DITTO	REF	REFERENCE
DP DS	DEEP DECK SPAN	REINF REM	REINFORCED OR REINFORCING EMAINDER
DWG	DRAWING	REQD	REQUIRED
EA	EACH	RET	RETURN
EE	EACH END	REV	REVISION
EF	EACH FACE	RO	ROUGH OPENING
EJ EL	EXPANSION JOINT ELEVATION	SCHED SECT	SCHEDULE SECTION
EQ	EQUAL	SIM	SIMILAR
EMBED	EMBEDDED	SHT	SHEET
EW	EACH WAY	SJ	SLIP JOINT
EXIST	EXISTING	SJI	STEEL JOIST INSTITUTE
EXP EXT	EXPANSION EXTERIOR	SLBB SOG	SHORT LEG BACK TO BACK SLAB ON GRADE
FC	FACE	SPA	SPACES OR SPACING
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FDTN	FOUNDATION	SST	STAINLESS STEEL
FF	FAR FACE	SSH	SHORT SLOTTED HOLE
FIN FLR	FINISHED FLOOR CONSTRUCTION	STD STIR	STANDARD STIFF STIFFENER
FRP	FIBRE-REINFORCED POLYMER	STIK	STIRRUP STEEL STRUCT STRUCTURAL
FS	FAR SIDE	SYMM	SYMMETRICAL
FTG	FOOTING	T/	TOP OF
FX	FOOTING DESIGNATION	T&B	TOP AND BOTTOM
GA	GAGE	T&G	TONGUE AND GROOVE
GALV GC	GALVANIZED GENERAL CONTRACTOR	THK TOB	THICK TOP OF BEAM
GL	GRID LINE	TOC	TOP OF CONCRETE
HEF	HORIZONTAL EACH FACE	TOF	TOP OF FOOTING
HK	HOOK HORIZ HORIZONTAL	TOJ	TOP OF JOIST
H PT	HIGH POINT	TOS	TOP OF STEEL
HS HSS	HIGH STRENGTH	TOW TYP	TOP OF WALL
HSS HWS	HOLLOW STRUCTURAL SHAPE HEAD WELDED STUD	UN	TYPICAL UNLESS NOTED
ID	INSIDE DIAMETER	VAR	VARIES
INTER	INTERMEDIATE	VEF	VERTICAL EACH FACE
K	KIP=1000 LB	VERT	VERTICAL
L	ANGLE	VIF	VERIFY IN FIELD
LB LG	POUND LONG	W/ W/O	WITH WITHOUT
LG LL	LIVE LOAD	WAF	
LLBB	LONG LEG BACK TO BACK	WCF	WELDED CHANNEL FRAME
LLH	LONG LEG HORIZONTAL	WF	WIDE FLANGE
LLV	LONG LEG VERTICAL	WLD	WELDED WORK POINT
		WP WWF	WORK POINT WELDED WIRE FABRIC
		V V V I	**ELDED **IIVE I ADIVIO



DRYE-MCGLAMERY
ENGINEERING, PLLC
NC FIRM LICENSE #P-1305
PO BOX 19558



STRUCTURAL GENERA NOTES

CHECKED BY: HWD
SHEET NO.

McGLAMERY

ENGINEERING, PLLC

1320 0000 3222							
REVISI	SNC						
NO.	DATE						
	NIED A /F /AAA7						

CHECKED BY: H'SHEET NO.

S-1

DESIGN DATA 1. ALL CONSTRUCTION SHALL COMPLY AS APPROPRIATE WITH THE FOLLOWING CODES AND/OR SPECIFICATIONS: NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND OTHER APPLICABLE CRITERIA, REFERENCE TO OTHER STANDARD SPECS. OR CODES SHALL MEAN THE LATEST VERSION. 2. DESIGN LOADS: PER MODULAR BUILDING MANUF. A. DEAD LOADS: PER MODULAR BUILDING MANUF. B. LIVE LOADS: C. SNOW LOADS: PER MODULAR BUILDING MANUF. D. WIND LOADS: 115 MPH BASIC WIND SPEED (3-SEC GUST) **EXPOSURE CATEGORY** IMPORTANCE FACTOR, Iw = 1.00 ENCLOSURE CLASSIFICATION **ENCLOSED** DIRECTIONALITY FACTOR, kd = 0.85 INTERNAL PRESSURE COEFFICIENT, GCpi = ±0.18 SEISMIC LOAD: SOIL SITE CLASS IMPORTANCE FACTOR, le = 1.00 0.140g 0.2 SECOND Ss

0.070g

0.149g 0.113g

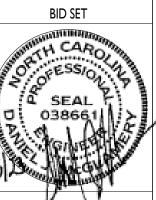
3. FOUNDATION DESIGN DATA

1.0 SECOND S1 0.2 SECOND Sds

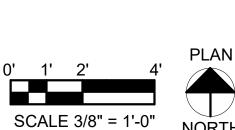
1.0 SECOND Sd1

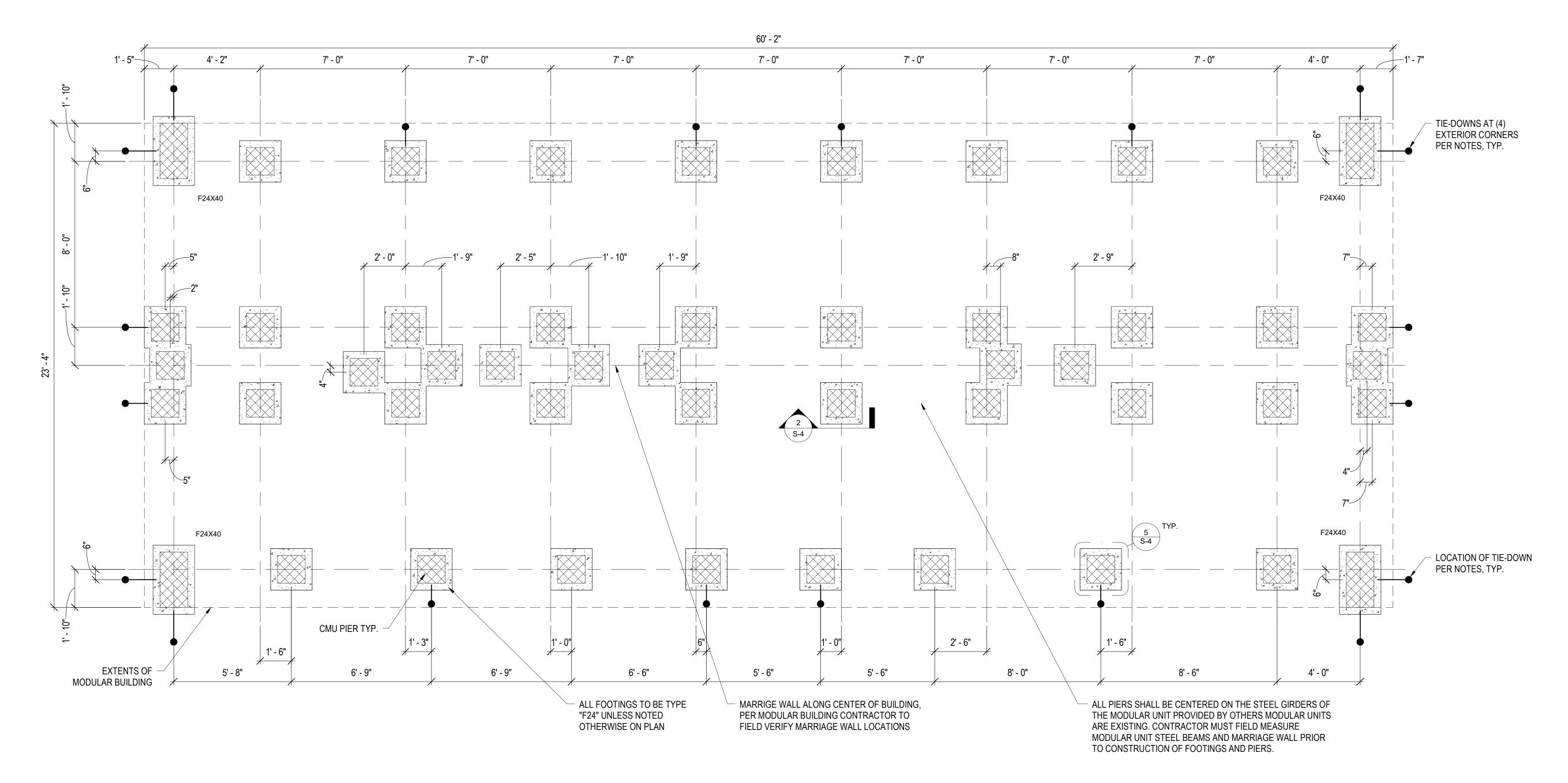
SEISMIC DESIGN CATEGORY

ALLOWABLE SOIL BEARING PRESSURE 2,000 PSF



HECKED BY: HWD





1 MODULAR BUILDING STRUCTURAL FOUNDATION PLAN
3/8" = 1'-0"

MODULAR BUILDING FOUNDATION PLAN NOTES

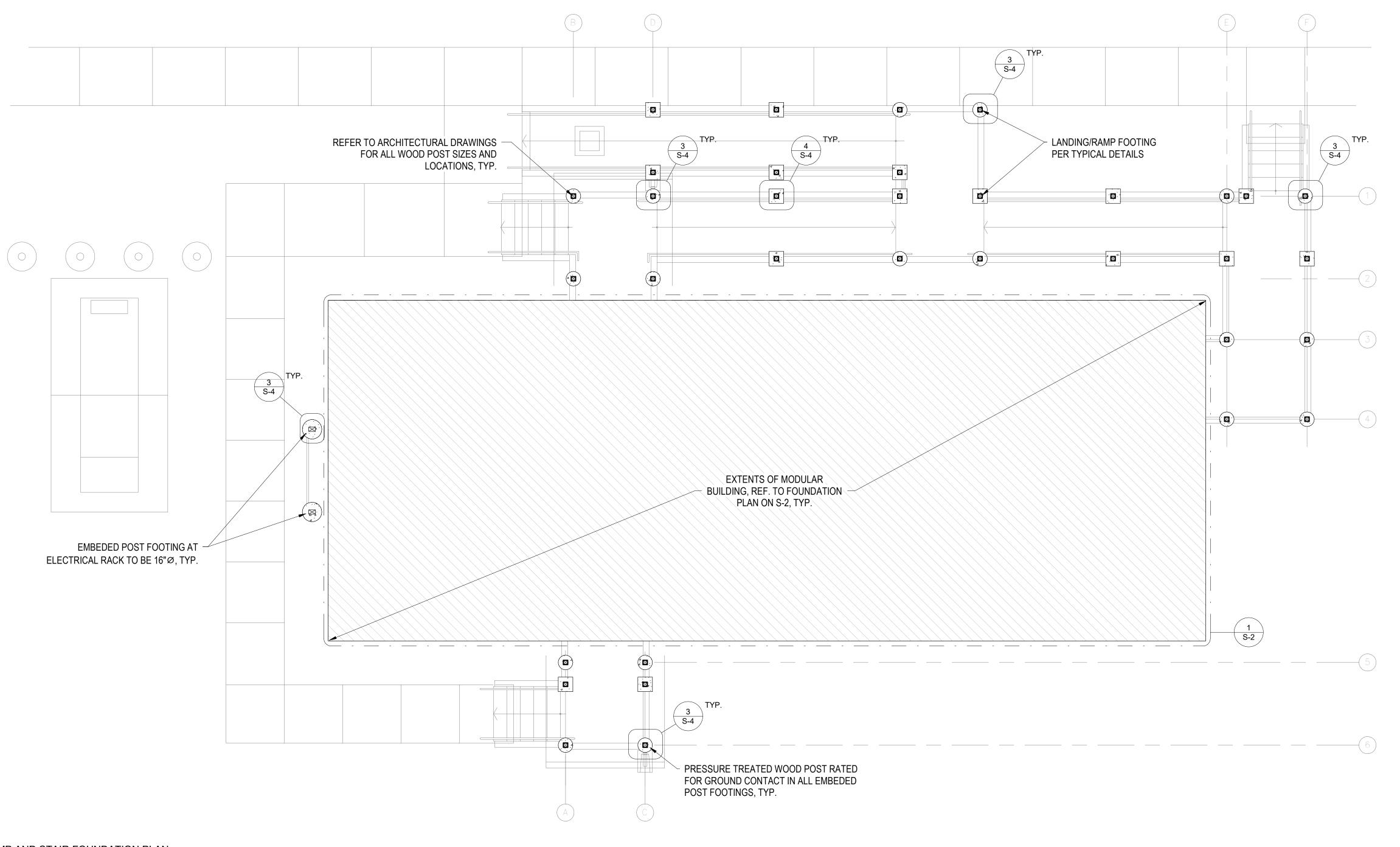
- 1. ALL DIMENSIONS SHOWN ON PLAN ARE TO CMU PIER CENTERLINES, UNLESS OTHERWISE DIMENSIONED ON PLAN.
- 2. PIER FOOTINGS SHALL BE CENTERED ON CMU PIER CENTERLINES, UNLESS OTHERWISE DIMENSIONED. SEE PLAN.
- REFER TO SITE DRAWINGS FOR ACTUAL FINISHED ELEVATIONS. REFERENCED FINISHED EXTERIOR GRADE ELEVATION WILL BE 0'-0".
- PROVIDE MIN. 4" OF WASH STONE (#57) BELOW ALL FOUNDATION ELEMENTS, TYP.
- TOP OF PIER FOOTINGS AND CONTINUOUS FOOTINGS TO BE -0'-8" BELOW FINISHED GRADE, PER CIVIL, TYP. U.N.O. BOTTOM OF ALL FOUNDATIONS TO BE MIN. -1'-6" BELOW FINISHED GRADE TO MAINTAIN 18" MINIMUM FROST
- "F24" FOR EXAMPLE DENOTES 2'-0"x2'-0"x10"HICK FOOTING. REFERENCE STRUCTURAL FOUNDATION SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF PIERS, TYP. UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION, TYP.
- TIE-DOWN STRAPS TO BE 1-1/4" X 0.035" TYPE-1, FINISH B, GRADE ONE ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953-91. TIE DOWN STRAPS AND CONNECTING HARDWARE TO HAVE 3150 LB. MINIMUM WORKING CAPACITY.
- GROUND ANCHORS SHALL HAVE 3150 LB. MINIMUM WORKING CAPACITY AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

Structural Foundations Schedule

Type	Width	Length	Foundation Thickness	Count	Volume	Footing Reinforcement
F24	2' - 0"	2' - 0"	10"	45	5.50 CY	(3) #4 BARS EA. WAY IN BTM. OF FTG.
F24X40	2' - 0"	3' - 4"	10"	4	0.82 CY	(3) #4 BARS EA. WAY IN BTM. OF FTG.
Grand tota	ıl· 10			10	6 32 CV	

DATE

HECKED BY: HWD



1 RAMP AND STAIR FOUNDATION PLAN 1/4" = 1'-0"

WOOD STAIR AND RAMP FOUNDATION PLAN NOTES

- 1. FOOTINGS SHALL BE CENTERED ON WOOD POST CENTERLINES UNLESS OTHERWISE DIMENSIONED. SEE PLAN.
- REFER TO SITE DRAWINGS FOR ACTUAL FINISHED ELEVATIONS. REFERENCED FINISHED EXTERIOR GRADE ELEVATION WILL BE 0'-0".
- PROVIDE MIN. 4" OF WASH STONE (#57) BELOW ALL FOUNDATION ELEMENTS, TYP.
- ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF POST, TYP. UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION, TYP.
- REFER TO DETAILS ON SHEET S-4 FOR ALL WOOD POST FOOTING REQUIREMENTS, TYP.
- ALL POST TO BE SUPPORTED BY EMBED FOOTINGS, UNLESS NOTED OTHERWISE ON PLAN. IN LOCATIONS NOTED ON PLAN AS NON-EMBED FOOTINGS, POST MAY BE SUPPORTED BY SPREAD FOOTING. REF. TO PLAN FOR WOOD POST FOOTING TYPE BY LOCATION, TYP.
- 7. REFER TO ARCHITECTURAL DRAWINGS FOR WOOD POST LOCATIONS, TYP.

WOOD POST FOOTING KEY



: DENOTES POST EMBED FOOTING



: DENOTES POST SPREAD FOOTING

ID.# 22-24690-01A

EQUIPMENT NUMBER 1320-0008-3222 DATE

CHECKED BY: HWD

SHEET NO.

6 TYPICAL GROUND ANCHORAGE DETAIL

PER MANUF. RECOMMENDATIONS

5 TYPICAL PIER FOOTING PLAN

CL. - 8" ASTM C90 CMU, TYP. CONCRETE SPREAD FOOTING BELOW CL. GROUT ALL CELLS OF PIER SOLID, TYP.

2' - 0" FOOTING TYP.

1' - 4" PIER

PRESSURE TREATED

- 12"x12"x10" THICK

SPREAD FOOTING SUPPORTING POST

POST, TYP.

SECTION A-A

EQ

4 POST SPREAD FOOTING DETAIL

SOLID 4" CAP BLOCK, TYP. 8" ASTM C90 CMU, TYP. GROUT ALL TOP CELLS SOLID, TYP. S-4 FINISHED GRADE (3) #4 BARS EA. WAY IN BTM. OF PIER FOOTING, TYP. #57 STONE POROUS FILL PER PLAN, TYP.

PRESSURE TREATED

- 12"x12"x10" THICK

SPREAD FOOTING

SUPPORTING POST

4" LAYER OF #57

STONE, TYP.

POST, TYP.

SIMPSON STRONG-TIE ABU POST

FOOTING WITH SIMPSON STRONG-

(2) #4 BARS EQUALLY SPACED EA.

CLEAR COVER AS SHOWN, TYP.

3" CLR.

WAY IN BTM. OF FOOTING, PROVIDE

FOOT

TIE TITEN HD SCREW ANCHOR, TYP.

BASE. ANCHOR POST BASE TO

1) TYPICAL CMU PIER FOOTING SECTION AT STEEL BEAM

2 TYPICAL CMU PIER FOOTING SECTION AT MARRIGE WALL

3" CLR.

+6'-8" ABOVE REF. ELEV. - GROUT ALL TOP CELLS SOLID, TYP. 8" ASTM C90 CMU, TYP. 5 S-4 FINISHED GRADE - (3) #4 BARS EA. WAY IN BTM. OF PIER FOOTING, TYP. #57 STONE POROUS FILL PER PLAN, TYP.

FINISHED T./MARRIGE WALL PIER

CL. OF POST

POST PER ARCH -PLANS, TYP.

FINSIHED GRADE PER CIVIL PLANS, TYP. EQ

DIAMETER.

LEAN CONCRETE FILL AROUND 4X4 POST. MIN. 12"

1' - 0" DIA. MIN. 3 TYPICAL POST BASE DETAIL

TIE-DOWN STRAP TO BUILDING -FRAMING ABOVE, TYP. INSTALL PER MANUF. RECOMMENDATIONS PROVIDE SOIL ANCHORS AS - INDICATED ON PLAN, TYP. INSTALL

LEAN CONCRETE FILL AROUND 4x4 POST. MIN. 12" DIAMETER. **SECTION A-A**

CL. OF POST

- POST, TYP.

CL. OF POST

DRYE McGLAMERY ENGINEERING, PLLC

BID SET