June 9, 2022

Addendum 1

RE: ABC Store No. 4 & Warehouse
Craven County ABC Board
Bridgeton, Craven County
MBFA No: 2102

Accompanying this Addendum are the minutes of the Pre Bid Conference conducted on June 9, 2022. Also, please find a current list of plan holders for reference and use.

Text in italics replicates language contained in the Instruments of Service. Standard text and strikethrough notations indicate modifications added or deleted.

Item 1: Reference **Section 01 10 00, Form of Advertisement**. The Pre Bid is scheduled for June 9, 2022 and the Bid Opening is scheduled for June 16, 2022.

Item 2: Reference **Section 08 33 00, Overhead Curtain Requirements**. Furnish HWS-2A for door Mark 111A as follows:

HWS-2A	OHDF x OHDC *Interior Overhead Door*		Elev	A-603	Frame A-603
	Overhead Door	2 each Door Control			
	Section 08 71 40	1 each KS8 Key Switch			628
	Section 08 71 30	1 each 90 Mortise Cylinder, F21, E09211			626

Note: Furnish electric metallic tubing raceway, cabling and programming to support connected devices and operate overhead curtain systems
Note: Furnish NEMA Type 1 enclosures for door controls sheltered inside building envelopes
Note: Mount the key switch inside **LBD Staging 101**

Item 3: Reference **Section 13 34 00, Metal Building Requirements**. Comply with structural parameters listed including restraining lateral drift to H/400.

Item 4: Reference **Section 21 13 13, Wet Pipe Sprinkler System**. Reference 1.3.D for flow test data supporting a conventional system. Omit the reference to EpiCenter infrastructure contained in 2.2.C. Reference 1.6.A.3. for high piled storage of wood pallets that are unencapsulated.

Item 5: Reference **Section 32 90 20, Turf & Grasses**. Provide farm raised centipede sod in lieu of the species indicated.

Item 6: Drawing sheets **C-101, CS101, CG101, CU101 and LS-101** are reissued in **Addendum 1**.

Item 7: Reference **Sheet CS101, Keynote 13**. Omit the monument sign referenced.

Item 8: Reference **Sheet AS101**. Furnish flagpoles, site walks and lighting. Technical specifications are included in **Section 10 75 00, Flagpoles.**

Item 9: Reference **Sheet AS102**. Provide translucent wall panels**.**

Item 10: Reference **Detail A2/A-101**. Provide 0.060 inch, 16 gauge nominal 8 inch ceiling joists at 2 feet, 0 inches on center, and sheath with 2 inch by 1 inch, 0.080 inch, 14 gauge hardware cloth to secure Archive Files 112.

Item 11: Reference **Sheet A-211, Keynote 9**. Sunshade devices consist of ASTM B 211 aluminum 6063-T6 alloy blades, secured with welds, aluminum or stainless steel neoprene gasketed fasteners of lengths and gauge as determined by delegated design. Horizontal sections are ASTM B 211 aluminum 6061-T6 alloy and have a 5.25 inch perimeter

frame suitable for bolting to vertical supports provided by others, with intermediate supports and channel cross section as determined by delegated design. Outriggers are bullnosed with closed, 4 inch circular tube fascias. Provide adjustable turnbuckle assemblies to suspend sunshade fabrications. Furnish airfoil blades approximately 6 inches in width, at a 45˚ angle and approximately 6 inches on center. Maintain 6 inches clear between horizontal plates and adjacent vertical surfaces. Furnish 1 inch diameter extruded aluminum spacers to prevent lateral movement of units. Finish is Lime Green 70% PVFD.

Item 12: Reference **Detail B3/A-402 and Detail A3/A-403**. Coordinate Owner furnished refrigerators into millwork fabrications.

Item 13: Reference **Detail A5/A-403**. Add plexiglass shelving to millwork.

Item 14: Reference **Detail A2/A-502**. Add a concrete footing to mechanical screen walls.

Item 15: Reference **Sheet A-111, Keynote 6**. Image wall coverings are furnished by the Owner following completion of the work.

Item 16: Reference **Sheet A-111, Keynote 8**. Technical specifications are included in **Section 09 50 00, Acoustical Panels**.

Item 17: Reference **Sheet I-601, Keynote 11**. Rubber corner guards are 100% synthetic rubber, Type TS, thermoset vulcanized, SBR grade, 4 feet, 6 inches in length with 2.25 inch legs, and an 0.1875 inch thickness. The angle formed by the two legs is 85˚ for tightly fitting walls, and exposed ends are square. The finish is **solid**.

Item 18: Reference **Sheet I-601, Keynote 17**. This notation is superseded by **Section 12 21 00, Window Treatments**.

Item 19: Drawing sheets **S-101, S-103 and S-111** are reissued in **Addendum 1**.

Item 20: Drawing sheets **E-101, E-102, E-103, E-106, E-201, E-301, E-302 and E-401** are reissued in **Addendum 1**.

Item 21: Reference **Detail 1/E-101**. Add a 120 volt receptacle and cable TV/data raceway at Sales Floor 302 for the electronic visual display furnished by the Owner outside Office 303.

Item 22: Reference **Detail 6/E-201**. The two, 4 inch spare conduit extend from Mechanical 308 to a point accessible from the E Street right of way. The two, 4 inch spare conduit extend from Mechanical 106 to a point accessible US Highway 17. Connect Mechanical 106 to Mechanical 206 with two, 4 inch sleeves penetrating the floor ceiling assembly. Connect Mechanical 206 to Warehouse 111 with two, 4 inch sleeves penetrating the wall assembly at a height matching the head of the adjacent storefront. Furnish temporary caps for ends.

Item 23: Reference **Detail 1/E-301 and Detail 1/E-302**. Allow for 200 linear feet of secondary conduit and cable for both buildings between each Panelboard A and the two transformers set by the utility.

Darden J. Eure, III, AIA, NCARB

END OF ADDENDUM
MBF Architects, P.A.

ABC Store No. 4 & Warehouse
Craven County ABC Board
Bridgeton, Craven County

MBF Architects, P.A.
MBFA No: 2102

Report 1
Pre Bid Conference

June 9, 2022
1:30 PM

Meeting Attendance

P	Mr. Tripp Eure	MBF Architects, P.A.
P	Ms. Emily Sigmon	MBF Architects, P.A.
P	Mr. Al Chesson	AR Chesson Construction Company, Inc.
P	Mr. Matthew Chappel	Farrior & Sons, Incorporated
P	Mr. Tony Abbott	HG Reynolds
P	Mr. Scott Thompson	TEAM Construction
P	Mr. Bishop Williams	Waters Construction Company, Inc.
P	Mr. David Robbins	Crystal Coast Mechanical
P	Mr. Ernie Langston	EL Electric Contracting, LLC

(P) Present/(A) Absent

Architectural Report

•Mr. Eure introduced participants in attendance.

•The Bid Opening is scheduled for June 16, 2022 in this same location up to 3:00 PM for Single Prime Bids. Bid security is required in the amount of five percent of the contract price in either cash, certified check or Bid Bond. Payment and Performance Bonds are required in the amount of one hundred percent of the contract price. Addendum 1 is forthcoming.

•Bidders are encouraged to review **Section 00 54 00, Unit Prices**. Include unit price allowances within the scope of the Base Bid.

•Bidders are encouraged to review **Section 01 70 00, Coordination of Tradework,** for general descriptions of the division of tradework.

•Reference **Section 05 06 00, Metal Architectural Coatings,** for the commercial color designation for Craven County ABC Board Lime Green.

END OF REPORT

Darden J. Eure, III, AIA, NCARB
eure@mbfarchitects.com

MBF Architects, P.A.

Cc: Chip Chagnon, ccabc@suddenlinkmail.com
Paul Brown, ccabc@suddenlinkmail.com
Civil Engineer, kevin@avoliseng.com
Structural Engineer, lucas@kaydos-daniels.com
Mechanical Engineer, dham@entech-pme.com
Plan Holders

ABC Store No.4 and Warehouse
Craven County ABC Board
Bridgeton, Craven County

MBF Architects, P.A.
MBFA Job No: 2102

REGISTER OF BID DOCUMENTS

Bid Date: June 16, 2022

June 9, 2022

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
MBF Architects, P.A. 317-C Pollock Street, New Bern, NC 28560 (T) (252) 637-6373, (F) (252) 637-3259	eure@mbfarchitects.com	
Craven County ABC Board 3493 Martin Drive, New Bern, NC 28562 (T) (252) 638-1318, (F) (252) 514-2389	ccabc@suddenlinkmail.com	
AGC Raleigh 3700 National Dr, Caswell Bldg, Suite 201, Raleigh 27612 (T) (919) 781-3270, (F) (919) 787-7323	content@constructconnect.com	
Dodge Data & Analytics		
East Coast Digital (ECD) Plan Room 210 East 14th Street, Greenville 27858 (T) (252) 758-8600	print@speedyblue.com	
Hispanic Contractors Association 8121 Brown Leigh Drive, Raleigh, NC 27617 (T) (919) 426-3029, (F) (866) 570-8187	content@constructconnect.com	
Reed Construction Data, Incorporated 30 Technology Pkwy South, Suite 500, Norcross, GA 30092 (T) (770) 209-3468, (F) (800) 467-2860	content@constructconnect.com	

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
Avolis Engineering, P.A. PO Box 15564 (28561), 5405 Morton Rd, New Bern 28562 (T) (252) 633-0068 (F) (252) 633-6507	kevin@avoliseng.com; beth@avoliseng.com	
Kaydos-Daniels Engineers, PLLC 400-201 West Morgan Street, Raleigh, 27603 (T) (919) 828-4966, (F) (919) 828-4967	lucas@kaydos-daniels.com	
En-Tech Engineering, P.A. 1003-I N. Berkeley Blvd., Goldsboro 27534 (T) 919-778-9064 (F) 778-9069	dham@entech-pme.com	
Southern Architectural Hardware, Inccorpoated 1025 Territorial Road, New Bern, NC 28560 (T) (252) 636-1255, (F) (252) 636-1417	johna@souarch.com	

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
Blue Rock Structures, Incorporated PO Box 129, 10689 Highway 17, Pollocksville, NC 28573 (T) (910) 743-0505, (F) (910) 743-0500	estimating@bluerockstr.com	48139
Daniels & Daniels Construction Company, Inc. 178 NC Hwy 111 South, Goldsboro, NC 27534 (T) (919) 778-4525, (F) (919) 778-6850	jeremiahd@danddcc.com	23697
Farrior & Sons, Incorporated PO Box 127, 9571 Highway 264 West Alt, Farmville 27828 (T) (252) 753-2005 (F) (252) 753-2267	tim@farriorandsons.com; matthew@farrierandsons.com	3934
Fasco, Incorporated PO Box 1697 (28503), 2659 Hwy 258 North, Kinston 28504 (T) (252) 522-0591 (F) (252) 522-5613	fasco@fascoinc.com	8015
Group III Management, Incorporated PO Box 1393 (28503), 2715 W Vernon Ave, Kinston 28504 (T) (252) 527-3333, (F) (252) 527-3377	jackie@groupiiimgt.com;	22369
Joyce & Associates Construction, Incorporated PO Box 190, 6994 Highway 70, Newport 28570 (T) (252) 223-3171, (F) (252) 223-3455	info@joyceandassoc.com	47948
Thomas Simpson Construction Company, Inc. PO Box 1850, AB (28512), 2401 Arendell St, MHC 28557 (T) (252) 247-4401 (F) (252) 247-0184	noah@thomassimpsonconstruction.com	17758
Trader Construction Company PO Drawer 1578, 2500 Hwy 70 East, NB 28563 (T) (252) 633-2424 (F) (252) 633-1370	dstevick@traderconstruction.com	2943
LA. Downey & Son, Incorporated 4457 Arendell Street, Morehead City, NC 28557 (T) (252) 726-2847, (F) (252) 726-1966	glott@ladowney.com	1774
Bruin Builders, LLC 3305 Highway 70 East, New Bern 28560 (T) (252) 635-9940, (F) (252) 635-1815	bruinbuilders@hotmail.com	62374
Primus Structures, Incorporated 2896 Highway 24, Suite H, Newport 28570 (T) (252) 503-3159, (F) (252) 764-2449	david@primusstructures.com	80425

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
Stocks & Taylor Construction, Incorporated PO Box 2147, Washington 27889-2147 (T) (252) 975-5855	staylor@stockstaylor.com; hbrooks@stockstaylor.com	69066
Quadrant Construction, Incorporated 166 Center Street, Jacksonville, NC 28546 (T) (919) 937-0003	chriswhaley@qcenc.com; markmccloskey@ephnc.com	54448
Waters Construction Company 3931 Highway 24, Newport, 28570 (T) (919) 764-2105	bishopw@waterscontracting.net	81408
TEAM Construction, LLC Suite 128, 825 Gumbranch Road, Jacksonville 28540 (T) (910) 320-8528	sthompson@TeamConstructionNC.com	75093
H.G. Reynolds Company, Inc. 3595 US Business, North, PO Box 209, Henderson, NC 27536 (T) (252)492-3071	tabbott@hgreynolds.net; lwalthall@hgreynolds.net	
Muter Construction 111 East Vance St, Zebulon, NC 27597 (T) (919)404-8330	djones@muterconstruction.com	
A.R. Chesson Construction Co, Inc 315 West Main Street, PO Box 1147, Williamston, NC 27892 (T) (252)792-4486	al@archesson.com	

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
James L. Cayton Associates PO Box 3198 (28564), 1906 Hwy 70 East, New Bern 28560 (T) (252) 637-9389, (F) (252) 637-5622	jimmy@jlcayton.com	1697
Keen Plumbing Company PO Box 1796 (27533) 407 Vann St, Goldsboro 27530 (T) (919) 735-1179, (F) (919) 735-5890	keenplumbing@bellsouth.net	1515
MechWorks Mechanical Contractors, Incorporated 532 Pylon Drive, Raleigh 27606 (T) (919) 322-2090, (F) (919) 322-2092	estimating@mechworksinc.com	11295
Scott Plumbing & Heating 6690 Hwy 55 East, New Bern 28560 (T) (252) 745-5135, (F) (252) 745-5551	scottplbghvac1@gmail.com	6295
Ken Hudson Plumbing PO Box 4400, Emerald Isle, NC 28594 (T) (252) 393-7003	kahp31@yahoo.com	20049

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
Kannapolis Fire Control, Inc. 913 Sprinkler Dr. Landis, NC 28088 (T) (704) 857-1105 (F) (704) 857-1107	bradvoncannon@ksprinkler.com	16273
Precision Sprinkler Company, Inc. 343 Technology Dr, Suite 2110, Garner 27529 (T) (919) 645-5880 (F) (919) 645-5881	bbandy@pscfire.com	23689
Sunland Fire Protection, Inc. 6420 B, Windmill Way, Wilmington 28405 (T) (910) 794-9101 (F) (910) 794-9103	chuck.sandlin@sunlandfire.us	16281
Williams Fire Sprinkler Company, Inc. PO Box 1048, 14677 US Hwy 64 West, Williamston 27892 (T) (252) 792-8196 (F) (252) 792-6603	bruce@williamsfiresprinkler.com, rmyatt@williamsfiresprinkler.com	16287

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
MechWorks Mechanical Contractors, Incorporated 5441 Hwy 70 Morehead City NC 28557 PO box 1168 Morehead City, NC 28557 (T) (252) 504-3201 , (F) (252) 504-3202	estimating@mechworksinc.com	11295
Scott Plumbing & Heating 6690 Hwy 55 East, New Bern 28560 (T) (252) 745-5135, (F) (252) 745-5551	scottplbghvac1@gmail.com	6295
Crystal Coast Mechanical, Incorporated 206 Campen Road, Beaufort 28516 (T) (252) 418-0038, (F) (252) 418-8038	rfrench@crystalcoastmechanical.com	29414
C/A Heating and Air Conditioning, Incorporated 1710 Old Airport Road, New Bern, NC 28562 (T) (252) 633-2744, (F) (252) 633-1064	bill.beese@caheatingandair.com	15760

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
Allco Electric, Incorporated PO Box 427, 5790 Aldridge Road, Lagrange, 28551 (T) (252) 566-5335, (F) (252) 566-5337	eddylong@allcoelectric.net	22313
R. Brown Electric Service, Incorporated PO Box 2188 (28561), 450 Washington Post Rd, NB 28560 (T) (252) 637-9210, (F) (252) 637-4301	ray@rbrownelectric.com	07589-U
Bryant-Durham Electric Company, Inc. 5102 Neal Road, Durham 27705 (T) (919) 383-2526	ralph.arone@bryantdurham.com	06227-U
Peco Electric, Incorporated 1711 Elijha Loftin Rd, Kinston 28504 (T) (252) 527-5285, (F) (252) 527-2869	kevin@pecoelectric.com	28165-U
Nationwide Electrical Services, Incorporated 708 North William Street, Goldsboro 27530 (T) (919) 736-2655, (F) (866) 460-3993	tim@nationwide-electric.com	15521-U
Triple R Electric, Incorporated PO Box 6116, 2488 Poole Rd, Kinston 28504 (T) (252) 523-3558, (F) (252) 523-2641	rwrouse@tripler.com; whrouse@tripler.com; bsmith@tripler.com	13241-U
Watson Electrical Construction Company, LLC PO Box 1250 (27835), 3121 Bismarck St, Greenville 27834 (T) (252) 756-4550, (F) (252) 756-7983	mvanderpool@watsonelec.com	00213/05-U
Willis Electric Company PO Box 67, Bayboro, NC 28515 (T) (252) 745-3501	wec1@embarqmail.com	03686-U
E.L. Electric Contracting, LLC 2121 Ridge Road, New Bern, NC 28560 (T) (252) 559-3119	ernielangstonelectric@gmail.com	34685-U

NAME, ADDRESS, PHONE	EMAIL ADDRESS	LICENSE NUMBER
Hardy Construction, Incorporated 33 Old Cross Road, New Bern, 28560 (T) (252) 636-0000, (F) (252)	hardycon@embarqmail.com	52988

9.22 ACOUSTICAL PANELS
Section 09 80 00

Addendum 1, 9-Jun-22

9.22.1 SCOPE:

Provide labor, material, equipment and services necessary for, and reasonably incidental to, furnishing and installing acoustical panel work indicated within the Instruments of Service. Incorporate related accessories and specialties to accomplish a complete and proper installation. Coordinate and schedule this work with the work of other trades to ultimately provide superior workmanship in the finished product.

Conform to the following material and workmanship specifications and standards, as applicable:

1. ASTM C 423, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
2. ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials

9.22.2 SUBMITTAL:

Submit certificates of compliance, manufacturer product information and shop drawings.

Acoustical panel finish is **Resin Edge Treatment with Radius Edge Profile.**

Submit a full range of fabric colors, texture and patterns from which specific selections will be made at a later date. The palette is to have a minimum of **twenty selections** from which to choose.

A maximum of **one color selection(s)** will be made. A maximum of **one color selection(s)** will be scheduled for any one space or area.

Furnish the standard **3 year** warranty of the manufacturer. Coverage is to ensure that acoustical panels are free of manufacturing defects in product design, material and workmanship.

Submit the recommended maintenance practices for each type of installation provided.

9.22.3 MATERIALS:

Fabric wrapped acoustical panels are Series A100 as manufactured by Wall Technology Incorporated, www.walltechnology.com; Series Eurospan as manufactured by Wall Technology Incorporated, www.walltechnology.com; products manufactured by Owens Corning, www.owenscorning.com; OR EQUAL.

Fabric coverings are products manufactured by Carnegie, www.carnegiefabrics.com; Designtex, www.designtex.com; Guilford, www.guilford.com; Knoll, www.knolltextiles.com; Maharam, www.maharam.com; OR EQUAL.

Acoustical panels have a core construction of 6 PCF, dimensionally stable fiberglass board. Panel finishes are fully adhered commercial grade fabrics that completely cover panel faces. Cores are **2 inches** in thickness with a NRC of **1.05** and an R-value of 4.16 per inch. Panel modules are **2 feet, 10 inches by 7 feet, 4 inches** with special shapes as indicated in the Instruments of Service.

Fabric wrapped panels comply with ASTM C 423, Type A and ASTM E 84, Class A.

Wrap resin hardened edge profiles with face fabric returned to panel backs. Fully tailor corners.

Concealed wall and ceiling mounting is a wall bar, zee clip type installation.

Furnish fasteners, accessories and options as recommended by the manufacturer for the specific applications and substrates encountered within the work.

9.22.4 INSTALLATION:

Maintain temperatures within the range of 60˚ to 85˚ F with not more than 70% RH. Rotate panels vertically and support from the bottom edge when handling. Store on flat, dry and solid surfaces. Do not store on edge. Protect edges from damage. Tag panels to coordinate with installation sequences.

Layout plumb and square lines for wall bars. Transfer receiving zee locations from substrates to corresponding locations on panels. Field cut wall bars less than full length and provide drops at end runs. Fur zees on uneven substrates to create a uniform panel plane. Adhere zees to panels. Position panels just above the receiving zee and lowered into place to fully engage the zee. Allow adhesives to set. Make installations plumb and square, and configure zees to conceal gaps between acoustical panels and mounting substrates.

9.22.5 SUSTAINABLE SYSTEM PROPERTIES:

Certify acoustical panel material contains at least 40% recycled glass, with 10% of that amount being post consumer and 30% of that amount being pre consumer content.

10.11 FLAGPOLES
Section 10 75 00

Addendum 1, 9-Jun-22

10.11.1 SCOPE:

Provide labor, material, equipment and services necessary for, and reasonably incidental to, furnishing and installing flagpole work indicated within the Instruments of Service. Incorporate related accessories and specialties to accomplish a complete and proper installation. Coordinate and schedule this work with the work of other trades to ultimately provide superior workmanship in the finished product.

Conform to the following material and workmanship specifications and standards, as applicable:

1. AAMA 612, Voluntary Specification, Performance Requirements and Test Procedures for Combined Coatings of Anodic Oxide and Transparent Organic Coatings on Architectural Aluminum
2. ACI 211, Standard Practice for Selecting Proportions for Normal, Heavy Weight and Mass Concrete
3. ACI 301, Specifications for Structural Concrete
4. ASTM C 143, Standard Test Method for Slump of Hydraulic Cement Concrete

10.11.2 SUBMITTAL:

Submit certificates of compliance, manufacturer product information and shop drawings.

Submit FLAGPOLE documentation.

Submit a DELEGATED DESIGN demonstrating compliance.

Furnish flagpole assemblies that resist lateral loads. Reference **Section 01 71 00, Field Engineering** for design criteria. Assembly design responsibility is delegated to the Contractor and incorporates specific properties and structural capabilities of selected products and manufacturers.

Flagpole finish is **Clear Anodized**.

Submit the recommended maintenance practices for each type of installation provided.

10.11.3 DESIGN CRITERIA:

Commercial and governmental facility flags are approximately 0.25 times the staff height for ground mounting or 0.33 times the staff height for rooftop mounting and as follows:

Exposed Staff Height	**Nominal Flag Size**
33 to 35 feet	5 feet, 0 inches x 8 feet, 0 inches

10.11.4 MATERIALS:

Flagpoles are products manufactured by American Flagpole; Concord Industries, Incorporated; Pole-Tech Company, Incorporated; OR EQUAL.

Furnish FLAGPOLE items indicated.

Staffs are extruded 6063-T6 aluminum alloy tubing with uniform conical tapers, aluminum balls with flush seams, and directional ground satin with commercial anodized finish. Pole wall thickness in no less than 0.188 inches and increased as needed to resist lateral loading. Trucks are a double metal sheave, cast aluminum revolving type with stainless steel bearings that accommodate No. 10, 0.3215 inch diameter braided polypropylene rope with two chrome plated swivel hooks per flag. Halyards are external to poles. Provide two 9 inch cast aluminum cleats, each being secured by two 0.3215 inch stainless steel fasteners. Provide round, spun aluminum collars of matching finish to

conceal pole bases. Fabricate foundation sleeves from 0.0598 inch, 16 gauge galvanized and corrugated steel tubes with 0.1875 inch, 7 gauge steel base plates. Fit plates with a 0.75 inch diameter ground spike extending 1 foot, 6 inches below foundation bottoms for lightning protection. Coat below grade pole surfaces with asphalt paint. Exposed staff lengths less than 35 feet are single sections. Furnish **two** flagpoles.

The Owner procures flags for flag staffs.

Give aluminum extrusions for heavy commercial applications a pretreatment to enhance adhesion followed by a caustic etch or alkaline wash for cleaning and degreasing. Apply a phosphate spray or chromate conversion treatment to protect against humidity and corrosive chemicals. Furnish an anodic oxide treatment and seal with an organic treatment applied with an electrodeposition process. Coatings conform to AAMA 612. Provide a two coat application that achieves a 0.7 mil thickness.

Qualify mixes for each concrete type and strength by either laboratory trial mix or field tested results. Proportion concrete according to ACI 211 and ACI 301.

Type of Construction	**Maximum Aggregate Size**	**Type of Concrete**	**Minimum Compressive Strength at 28 Day Test Cylinders**
Flagpole foundations	0.75 inch	Normal weight	3,000 PSI, air entrained

Concrete slumps as determined by ASTM C 143 are as follows:

Type of Construction	**Maximum Slump**	**Minimum Slump**
Flagpole foundations	5 inch	3 inch

Furnish fasteners, accessories and options as recommended by the manufacturer for the specific applications and substrates encountered within the work.

10.11.5 INSTALLATION:

Mark multiple section staffs for assembly.

Lubricate exposed portions of jamb sleeves prior to assembly.

Encapsulate ground mounted flag staff sleeves in concrete foundations. Set staffs within foundation sleeves. Plumb and hold in position with temporary wedges. Fill foundation voids with dry, granular sand. Verify vertical pole alignment and tightly tamp. Remove wedges and secure collars in place.

10.11.6 FLAGPOLE SCHEDULE:

Mark	**Exposed Height**	**Pole Top Diameter**	**Pole Bottom Diameter**	**Foundation Depth**	**Top Diameter**	**Bottom Diameter**	**Flags per Pole**
FP-1	35 feet	3.5 inches	7 inches	4 feet, 6 inches	3 feet, 0 inches	3 feet, 6 inches	1

GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION OPERATIONS SHALL BE COMPLETED IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS AND AS SPECIFIED.
2. THE PLANS DEPICT THE GENERAL INTENT OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES BEYOND THE LIMITS OF WORK. ANY ITEM DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED WITH NEW.
3. DIMENSIONS AND CONDITIONS SHOWN ARE APPROXIMATE AND ARE ACCURATE AS OF THE TIME OF SITE INSPECTION. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION SITE CONDITIONS INCLUDING A VERIFICATION OF CONDITIONS SHOWN AND NOT SHOWN.
4. ADJACENT STRUCTURES AND UTILITIES MUST REMAIN IN OPERATION DURING CONSTRUCTION ACTIVITIES. EXISTING ROADS SHALL REMAIN OPEN AND ACCESSIBLE BY VEHICULAR AND PEDESTRIAN TRAFFIC. IF ROADWAY CLOSURE IS REQUIRED, APPROVAL SHALL BE SECURED FROM THE APPROPRIATE OFFICIAL. THE CONTRACTOR SHALL PROVIDE BARRICADES, LIGHTS, SIGNAGE AND OTHER PROTECTIVE DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. THE CONTRACTOR SHALL PROVIDE FENCING, BARRICADES OR OTHER PROTECTIVE DEVICES TO MAINTAIN A SECURED WORK AREA AT ALL TIMES.
6. PRIOR TO STARTING CONSTRUCTION ON ANY STRUCTURES OR UTILITIES, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF ANY STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL DEVELOP A PLAN OF CONSTRUCTION THAT ENSURES ALL ACTIVITIES ARE COMPLETED IN A SAFE MANNER. PROVIDE ANY TEMPORARY SHORING, SHEETING OR SUPPORT REQUIRED TO COMPLETE WORK IN A SAFE MANNER.
7. ALL EROSION CONTROL FEATURES SHOWN SHALL BE INSTALLED PRIOR TO DEMOLITION ACTIVITIES STARTING.
8. THE CONTRACTOR SHALL MINIMIZE DUST GENERATED FROM CONSTRUCTION ACTIVITIES BY WET METHODS OR OTHER APPROVED METHODS.
9. WHERE ROADS, SIDEWALKS, ETC ARE INDICATED TO BE CUT AND PATCHED, EACH SHALL BE REMOVED AND REPLACED ALONG NEAT SAW-CUT LINES, AND TO THE NEAREST JOINT WHERE IT EXISTS.
10. ANY FILL MATERIAL REQUIRED TO ESTABLISH THE FINISH GRADES SHOWN SHALL BE OBTAINED FROM A PROPERLY PERMITTED BORROW PIT. ANY EXCESS SOIL MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF OF THE PROPERTY.
11. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL HAULING AND DISPOSAL REGULATIONS. BURNING ON THE PROPERTY IS NOT PERMITTED.

UTILITY NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL SECURE THE SERVICES OF A PROFESSIONAL UTILITY LOCATE CONTRACTOR TO MARK ALL EXISTING UTILITIES IN THE AREA OF WORK. UTILITY MARKINGS SHALL BE MAINTAINED FOR THE DURATION OF DEMOLITION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY 811 IN ADDITION TO HIRING THE SERVICES OF A PROFESSIONAL LOCATE COMPANY.
2. ALL UTILITY LINES TO REMAIN SHALL REMAIN ACTIVE AND SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES.
3. EXISTING UTILITIES SHALL NOT BE INTERRUPTED WITHOUT THE APPROVAL OF THE UTILITY PURVEYOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE, TO ORIGINAL CONDITION, ANY UTILITIES DAMAGED DURING CONSTRUCTION ACTIVITIES FROM THE CONTRACTOR'S OPERATIONS.
5. ALL COSTS ASSOCIATED WITH LOCATING, DISCONNECTING ABANDONING AND CAPPING OF UTILITY LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE REMOVAL OF ALL UTILITIES INDICATED WITH THEIR RESPECTIVE UTILITY PURVEYORS.
7. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

CIVIL LEGEND

EXISTING	DESCRIPTION	NEW
	WATER VALVE	
	THRUST BLOCK	
	FIRE HYDRANT	
WM	WATER SERVICE	WM
S	SANITARY SEWER MANHOLE	
CO	CLEANOUT	CO
D	STORM SEWER MANHOLE	
	STORM DRAIN/INLET PROTECTION	
TPED	COMMUNICATIONS PEDESTAL	
	POWER POLE	
	LIGHT POLE	
	GUY WIRE	
S	SANITARY SEWER (GRAVITY)	S
FM	SANITARY SEWER (FORCE MAIN)	
D	STORM SEWER	D
W	DOMESTIC WATER	W
OHE	OVERHEAD ELECTRICAL	
UGE	UNDERGROUND ELECTRICAL	
UGC	UNDERGROUND COMMUNICATIONS	
G	UNDERGROUND GAS	
	GRAVEL	
	CONCRETE	
	ASPHALT	
	SILT FENCE	SLT
	TEMPORARY BENCHMARK	
	SIGN	
5.00	SPOT ELEVATIONS	+ 5.00
5	CONTOUR LINES	5
x	FENCE	
	SURVEY CONTROL POINT	
	SOURCE/DESTINATION UNKNOWN	
	DEMOLITION ITEMS	

ABBREVIATIONS

APPROX.	APPROXIMATE/APPROXIMATELY
CJ	CONTRACTION JOINT
CL, C/L	CENTER LINE
COMM.	TELECOMMUNICATIONS
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
DIA, ø	DIAMETER
D.I.	DUCTILE IRON
DMH	DRAINAGE MANHOLE
EL=, ELEV	ELEVATION
EJ	EXPANSION JOINT
ELEC.	ELECTRIC; ELECTRICAL
EW	EACH WAY
EX., EXIST.	EXISTING
FFE	FINISH FLOOR ELEVATION
GPM	GALLONS PER MINUTE
INV	INVERT
IPC	IRON PIPE & CAP (CONTROL)
LBS	POUNDS
LF	LINEAR FOOT
MAG	MAG NAIL (CONTROL)
MAX	MAXIMUM
MIN	MINIMUM
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE (PIPE)
RCP	REINFORCED CONCRETE PIPE
SF	SQUARE FOOT/FEET
SLT	SILT FENCE
SWP	STORMWATER POND
TBM	TEMPORARY BENCHMARK
TYP	TYPICAL
WWF	WELDED WIRE FABRIC
&	AND
@	AT
±	PLUS OR MINUS
%	PERCENT
=	EQUALS

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
3. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL A3, SHEET CG501.
4. COMPLETE ALL PIPE TRENCHING IN ACCORDANCE WITH DETAIL B4, SHEET CU501.

WORK ITEMS PERTAINING TO SHEET CD101

1. REMOVE EXISTING ASPHALT PAVEMENT AND STONE BASE TO LIMITS SHOWN.
2. REMOVE EXISTING GUARD RAIL AND SIGNAGE.
3. EXISTING OVERHEAD UTILITY TO BE REMOVED OR RELOCATED. COORDINATE WITH UTILITY PURVEYOR(S).
4. INSTALL GRAVEL CONTROL ENTRANCE - SEE DETAIL D1, SHEET CG501.
5. INSTALL SILT FENCING - SEE DETAIL B1, SHEET CG501.
6. INSTALL CHECK DAM - SEE DETAIL A1, SHEET CG501.
7. EXISTING TREE/BUSH TO BE REMOVED.

WORK ITEMS PERTAINING TO SHEET CS101

1. PROPOSED BUILDING - SEE ARCHITECTURAL PLANS.
2. STANDARD DUTY ASPHALT PAVEMENT SECTION - SEE DETAIL D1, SHEET CS501.
3. HEAVY DUTY ASPHALT PAVEMENT SECTION - SEE DETAIL D1, SHEET CS501.
4. CONCRETE SIDEWALK - SEE DETAIL B1, SHEET CS501.
5. CONCRETE CURB AND GUTTER, TYPE AS INDICATED BY HATCH - SEE DETAIL B3, SHEET CS501.
6. DETECTABLE WARNING DOMES, PER NCDOT STANDARD 848.06.
7. SIGNAGE, TYPE AS INDICATED - SEE DETAIL A3, SHEET CS502.
8. PAVEMENT MARKINGS, AS INDICATED - SEE DETAIL B3, SHEET CS502.
9. GRAVEL SECTION - SEE DETAIL D4, SHEET CS501.
10. CONCRETE APRON - SEE DETAIL A1, SHEET CS501.
11. STEEL BOLLARD, NUMBER AS SHOWN - SEE DETAIL C3, SHEET CS501.
12. MECHANICAL EQUIPMENT PAD - SEE ARCHITECTURAL PLANS.
13. MONUMENT SIGN AND FOUNDATION - SEE ARCHITECTURAL PLANS.
14. 4" WIDE WHITE THERMOPLASTIC EDGE LINE PER NCDOT STANDARDS.
15. WIPE DOWN CURB BACK FOR ADA ACCESS.
16. FLAG POLES AND CONCRETE WALK - SEE ARCHITECTURAL PLANS.

WORK ITEMS PERTAINING TO SHEET CG101

1. DRAINAGE STRUCTURE (SEE TABLE) - SEE DETAIL A1, SHEET CG502.
2. 5:1 LINED SWALE, 62LF± - SEE DETAIL C3, SHEET CU501.
3. STORM DRAIN PIPE, SIZE AS SHOWN.
4. ROOF LEADER TRANSITION - SEE DETAIL A4, SHEET CU501.
5. INSTALL GRAVEL CONTROL ENTRANCE - SEE DETAIL D1, SHEET CG501.
6. INSTALL SILT FENCING - SEE DETAIL B1, SHEET CG501.
7. INSTALL INLET/OUTLET PROTECTION - SEE DETAIL C4, SHEET CG501.
8. INSTALL DROP INLET PROTECTION - SEE DETAIL A4, SHEET CG501.
9. INSTALL CHECK DAM - SEE DETAIL A1, SHEET CG501.
10. GUTTER LEADER CONNECTION TO DOWNSPOUT - SEE DETAIL A4, SHEET CG503. COORDINATE FINAL LOCATION AND NUMBER WITH ARCHITECTURAL PLANS.
11. CLEANOUT - SEE DETAIL C4, SHEET CU501.

WORK ITEMS PERTAINING TO SHEET CU101

1. SEWER CLEANOUT - SEE DETAIL C4, SHEET CU501.
2. 4" PVC SEWER SERVICE TO BUILDING, SEE PLUMBING PLANS FOR CONTINUATION.
3. 1" PVC WATER SERVICE TO BUILDING, SEE PLUMBING PLANS FOR CONTINUATION.
4. WATER METER AND SERVICE TO BE INSTALLED BY FIRST CRAVEN SANITARY DISTRICT. CONTRACTOR TO COORDINATE.
5. INLINE WYE CONNECTION TO EXISTING SEWER MAIN BY TOWN OF BRIDGETON. CONTRACTOR TO COORDINATE.
6. 6" DUCTILE IRON FIRE WATER SERVICE TO BUILDING. SEE FIRE PROTECTION PLANS FOR CONTINUATION.
7. POST INDICATOR. SEE DETAIL A2, SHEET CU501.
8. TAPPING SADDLE AND VALVE BY CONTRACTOR. SEE DETAILS A1 AND C1, SHEET CU501.
9. THRUST BLOCKING. SEE DETAIL C2, SHEET CU501.
10. 1-1/2" PVC WATER SERVICE TO BUILDING, SEE PLUMBING PLANS FOR CONTINUATION.
11. NEW PARKING LOT LIGHTING - SEE SITE ELECTRICAL PLANS.

EROSION CONTROL NOTES:
SCHEDULE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES

1. INSTALL GRAVEL CONTROL ENTRANCE AT DESIGNATED PROJECT ENTRANCE.
2. INSTALL SILT FENCING AND CHECK DAMS AS INDICATED.
3. CONSTRUCT STORMWATER RETENTION POND TO SERVE AS SEDIMENT TRAP DURING CONSTRUCTION.
4. CONSTRUCT SITE IMPROVEMENTS.
5. STABILIZE AND SEED ALL AREAS NOT TO BE FURTHER DISTURBED BY CONSTRUCTION ACTIVITIES PER THE VEGETATION PLAN AND STATED TIME CONSTRAINTS.
6. INSTALL SOD TO ESTABLISH FINAL VEGETATION.
7. ADDITIONAL MISCELLANEOUS EROSION CONTROL MEASURES MAY BE REQUIRED WHEN DEEMED NECESSARY BY THE CONTRACTING OFFICER OR CONTRACTOR.
8. REMOVE SILT FENCING, GRAVEL CONTROL ENTRANCE, DROP INLET PROTECTION, AND CHECK DAMS ONCE VEGETATION IS 95% ESTABLISHED.
9. CLEAN ACCUMULATED SEDIMENT FROM STORMWATER POND AND ESTABLISH PROPER DESIGN DEPTHS.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL EVENT BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL DEVICES IN THE OPERATIONAL CONDITIONS INTENDED.
2. ALL AREAS WILL BE STABILIZED IN ACCORDANCE TO THE PROJECT SPECIFICATIONS AND THE VEGETATION PLAN IN ORDER TO ESTABLISH AND MAINTAIN A STABLE GROUND COVER.
   ANY SEDIMENT TRACKED ONTO THE ADJACENT ASPHALT ROAD SHALL BE REMOVED ON A DAILY BASIS.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCING AND CHECK DAMS AND DROP INLET PROTECTION PRIOR TO THE SEDIMENT ACCUMULATING TO A MAXIMUM DEPTH OF SIX INCHES.

NOTE:

1. ALL FILL MATERIAL NEEDED TO EXECUTE THIS PROJECT MUST BE OBTAINED FROM A PROPERLY PERMITTED COMMERCIAL BORROW PIT AT THE CONTRACTOR'S OWN EXPENSE.
2. NO WETLAND AREAS ARE LOCATED WITHIN THE PROJECT LIMITS OF DISTURBANCE.
3. NO SURFACE WATER ARE LOCATED WITHIN THE PROJECT LIMITS OF DISTURBANCE.

SPECIAL SEEDING NOTE:

CUT & FILL SLOPES 3:1 OR FLATTER WILL, WITHIN 7 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. ADDITIONALLY, WITHIN 7 DAYS, SLOPES STEEPER THAN 3:1 MUST BE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, AND MUST BE PLANTED.

NOTE:

PROJECT DRAINS TO: NEUSE RIVER
SURFACE WATER CLASSIFICATION: SC, Sw, NSW
STREAM INDEX: 27-(96)

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#	DATE	DESCRIPTION
2	6-9-2022	ADDENDUM 1
1	1-24-2022	BRIDGETON COMMENTS

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NORTH CAROLINA PROFESSIONAL SEAL 15738 ENGINEER JOHN K. AVOLIS
04-12-2023

MBFA No: 2102

CIVIL LEGEND AND NOTES

C-101
SHEET 1 OF xx

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PROJECT #21026

GRAPHIC SCALE: 1"=20'
20' 0 20' 40'

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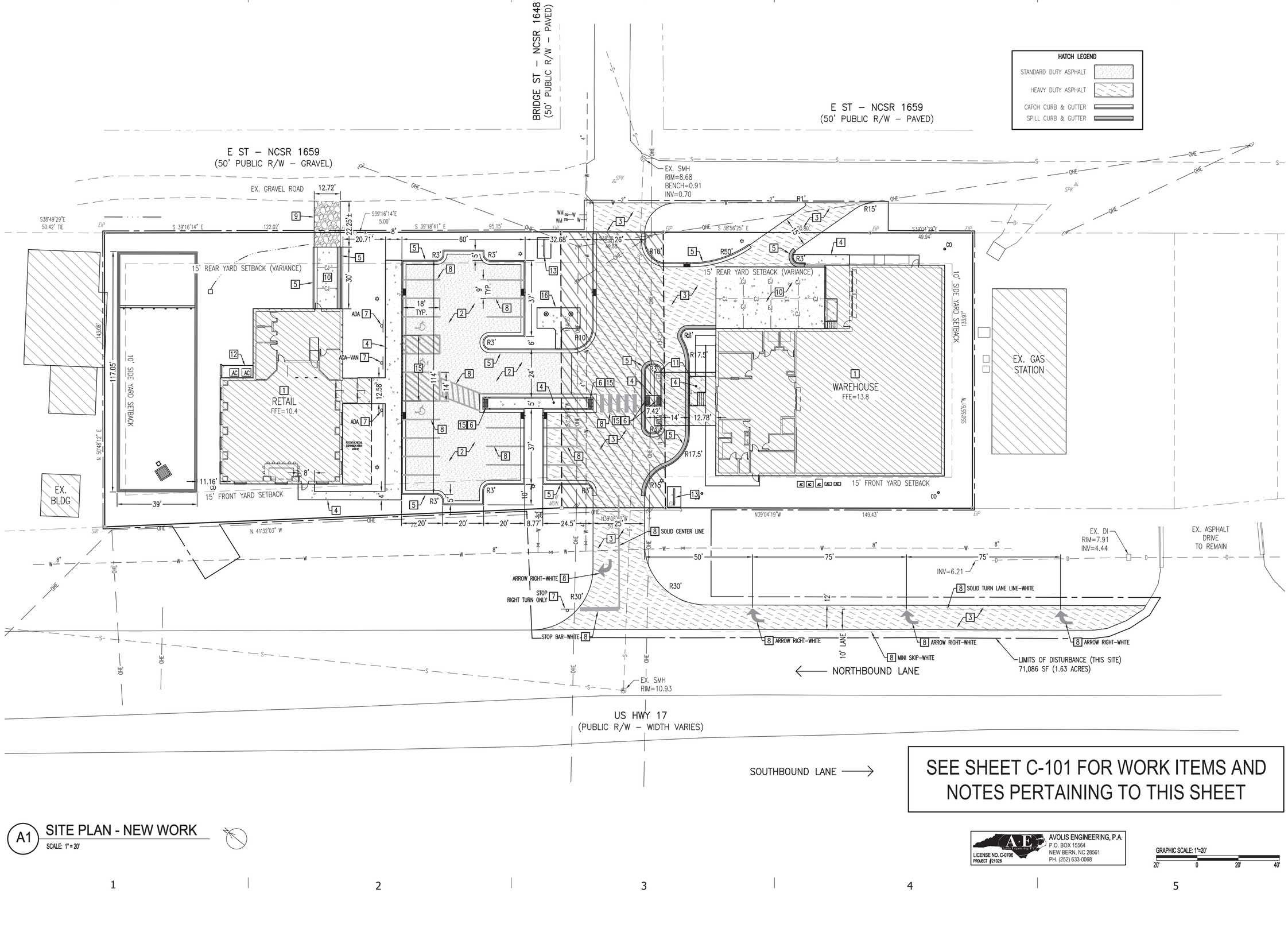

SEE SHEET C-101 FOR WORK ITEMS AND NOTES PERTAINING TO THIS SHEET

A1 SITE PLAN - NEW WORK

SCALE: 1" = 20'

GRAPHIC SCALE: 1"=20'

20' 0 20' 40'

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SITE PLAN - NEW WORK

CS101

SHEET 3 OF xx

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DRAINAGE STRUCTURE TABLE			
STRUCTURE NUMBER	RIM (FT)	INVERT (FT)	COMMENT
DS#1	10.3	8.1	CURB INLET
DS#2	10.2	7.8	CURB INLET
DS#3	9.5	7.6	CURB INLET
DS#4	9.5	7.3	CURB INLET
DS#5	9.0	6.9	DROP INLET
DS#6	10.1	8.0	CURB INLET
DS#7	9.8	7.9	CURB INLET
DS#8	9.8	7.6	CURB INLET
DS#9			OUTLET STRC

BRIDGE ST – NCSR 1648
(50' PUBLIC R/W – PAVED)

E ST – NCSR 1659
(50' PUBLIC R/W – PAVED)

E ST – NCSR 1659
(50' PUBLIC R/W – GRAVEL)

EX. GRAVEL ROAD

EX. SMH
RIM=8.68
BENCH=0.91
INV=0.70

RETAIL
FFE=10.4

WAREHOUSE
FFE=13.8

EX. GAS STATION

EX. BLDG

EX. DI
RIM=7.91
INV=4.44

INV=6.21

EX. ASPHALT DRIVE TO REMAIN

LIMITS OF DISTURBANCE (THIS SITE)
71,086 SF (1.63 ACRES)

NORTHBOUND LANE

SOUTHBOUND LANE

EX. SMH
RIM=10.93

US HWY 17
(PUBLIC R/W – WIDTH VARIES)

A1 SITE GRADING PLAN
SCALE: 1" = 20'

SEE SHEET C-101 FOR WORK ITEMS AND NOTES PERTAINING TO THIS SHEET

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SITE PLAN - GRADING AND EROSION CONTROL

CG101
SHEET 4 OF xx

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(50' PUBLIC R/W – PAVED)

E ST – NCSR 1659
(50' PUBLIC R/W – PAVED)

E ST – NCSR 1659
(50' PUBLIC R/W – GRAVEL)

EX. SMH
RIM=8.68
BENCH=0.91
INV=0.70

RETAIL
FFE=10.4

WAREHOUSE
FFE=13.8

EX. GAS STATION

EX. BLDG

(1) 90° ELBOW
(1) THRUST BLOCK [9]

[6] 138LF±

(1) POST INDICATOR [7]
(1) 6" TAPPING SADDLE & VALVE [8]
(1) THRUST BLOCK [9]

EX. DI
RIM=7.91
INV=4.44

INV=6.21

EX. ASPHALT DRIVE TO REMAIN

LIMITS OF DISTURBANCE (THIS SITE)
71,086 SF (1.63 ACRES)

EX. SMH
RIM=10.93

NORTHBOUND LANE

US HWY 17
(PUBLIC R/W – WIDTH VARIES)

SOUTHBOUND LANE

UTILITY NOTES:

WATER:

1. THE 1 INCH WATER SERVICE TAPS WILL BE INSTALLED BY FIRST CRAVEN SANITARY DISTRICT. THE TAP, METER BOX AND METER WILL BE INSTALLED BY THE UTILITY PURVEYOR. OWNER SHALL MAKE APPLICATION FOR SERVICE INSTALLATION. A MINIMUM OF 6 WEEKS PRIOR NOTICE IS REQUIRED FOR SERVICE INSTALLATION. INSTALLATION SHALL BE COORDINATED BY THE CONTRACTOR.

2. THE 6 INCH FIRE WATER SERVICE INSTALLATION INCLUDING THE TAP ON THE MAIN SHALL BE BY THE CONTRACTOR. FIRST CRAVEN SANITARY DISTRICT SHALL WITNESS THE TAP.

3. POINT OF CONTACT IS MR. ED RIGGS, FIRST CRAVEN SANITARY DISTRICT (252)633-6500.

SEWER:

1. THE TOWN OF BRIDGETON SHALL INSTALL THE NEW SEWER SERVICE CONNECTIONS TO THE EXISTING MAIN. OWNER SHALL MAKE APPLICATION FOR SERVICE INSTALLATION. THE TOWN WILL PROVIDE THE SERVICE CONNECTION FOR EXTENSION BY THE CONTRACTOR. A MINIMUM OF 6 WEEKS PRIOR NOTICE IS REQUIRED FOR SERVICE INSTALLATION. INSTALLATION SHALL BE COORDINATED BY THE CONTRACTOR.

2. POINT OF CONTACT IS THE TOWN OF BRIDGETON (252)637-3697.

A1 SITE PLAN - UTILITIES
SCALE: 1" = 20'

SEE SHEET C-101 FOR WORK ITEMS AND NOTES PERTAINING TO THIS SHEET

GRAPHIC SCALE: 1"=20'
20' 0 20' 40'

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SITE PLAN - UTILITIES

CU101
SHEET 7 OF xx

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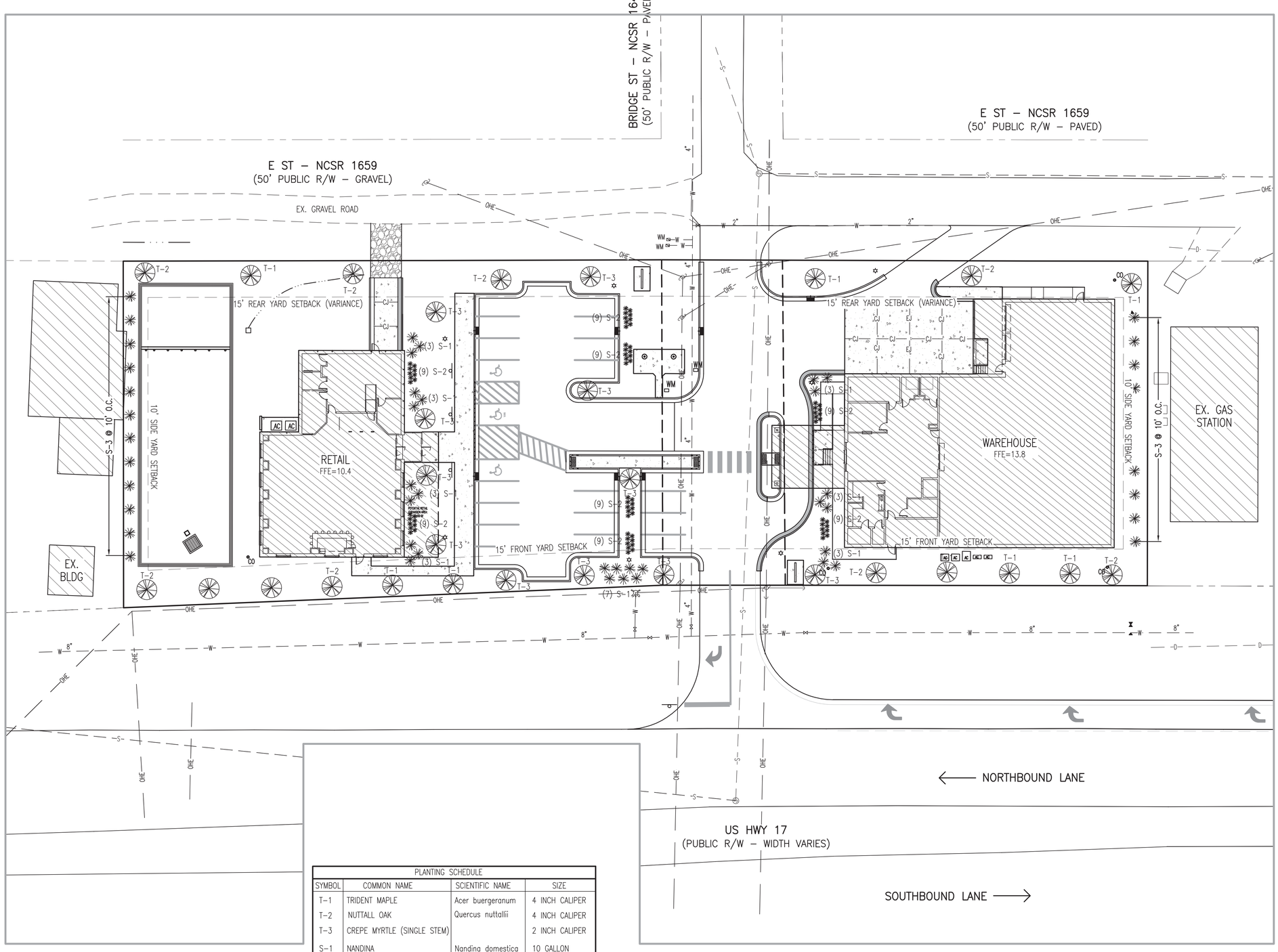

PLANTING SCHEDULE			
SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE
T-1	TRIDENT MAPLE	Acer buergeranum	4 INCH CALIPER
T-2	NUTTALL OAK	Quercus nuttallii	4 INCH CALIPER
T-3	CREPE MYRTLE (SINGLE STEM)		2 INCH CALIPER
S-1	NANDINA	Nandina domestica	10 GALLON
S-2	DWARF INDIAN HAWTHORNE	Rhaphiolepsis indica	5 GALLON
S-3	VARIEGATED PRIVET	Ligustrum sinense	10 GALLON

A1 SITE LANDSCAPING PLAN
SCALE: 1" = 20'

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SITE LANDSCAPING PLAN

LS101
SHEET 3 OF xx

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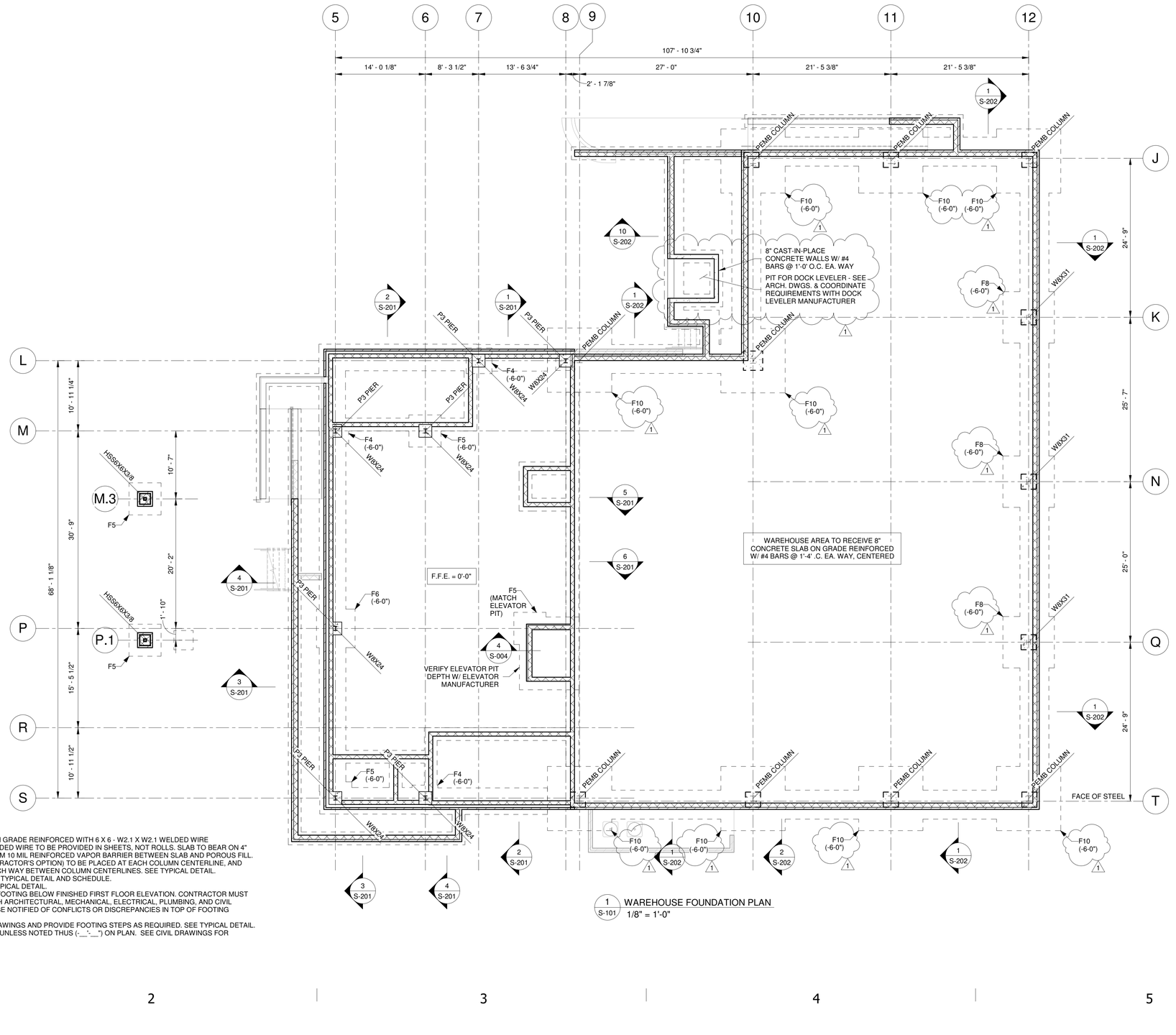

1 S-101 WAREHOUSE FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. ENTIRE AREA TO RECEIVE 4" CONCRETE SLAB ON GRADE REINFORCED WITH 6 X 6 - W2.1 X W2.1 WELDED WIRE REINFORCING, UNLESS NOTED OTHERWISE. WELDED WIRE TO BE PROVIDED IN SHEETS, NOT ROLLS. SLAB TO BEAR ON 4" OF COMPACTED, POROUS FILL. PROVIDE MINIMUM 10 MIL REINFORCED VAPOR BARRIER BETWEEN SLAB AND POROUS FILL.
2. CJ (CONSTRUCTION OR CONTROL JOINTS - CONTRACTOR'S OPTION) TO BE PLACED AT EACH COLUMN CENTERLINE, AND INTERMEDIATELY SPACED AT 12'-0" O.C. MAX. EACH WAY BETWEEN COLUMN CENTERLINES. SEE TYPICAL DETAIL.
3. F_ ON PLAN INDICATES A COLUMN FOOTING. SEE TYPICAL DETAIL AND SCHEDULE.
4. P_ ON PLAN INDICATES A CONRETE PIER. SEE TYPICAL DETAIL.
5. MARKS SHOWN THUS (-X'-XX") INDICATE TOP OF FOOTING BELOW FINISHED FIRST FLOOR ELEVATION. CONTRACTOR MUST COORDINATE TOP OF FOOTING ELEVATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. THE STRUCTURAL ENGINEER MUST BE NOTIFIED OF CONFLICTS OR DISCREPANCIES IN TOP OF FOOTING ELEVATIONS.
6. CONTRACTOR MUST COORDINATE WITH SITE DRAWINGS AND PROVIDE FOOTING STEPS AS REQUIRED. SEE TYPICAL DETAIL.
7. REFERENCE FINISH SLAB ELEVATION TO BE 0'-0", UNLESS NOTED THUS (-__'-__") ON PLAN. SEE CIVIL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.
8. SEE TYPICAL CONSTRUCTION DETAILS.
9. SEE GENERAL NOTES ON SHEET S-001.

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ABC STORE NO. 4 & WAREHOUSE

BRIDGETON, CRAVEN COUNTY

CRAVEN COUNTY ABC BOARD

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#	DATE	DESCRIPTION
1	06-09-2022	Addendum 1

28 MAR 2022

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032586 ENGINEER LUCAS G. A. GELO
03/28/22

MBFA No: 2102

WAREHOUSE FOUNDATION PLAN

S-101
SHEET

File Path: C:\Users\lucas.KAYDOS-DANIELS\Documents\21191_ABC Warehouse_v21_lggelo23.rvt
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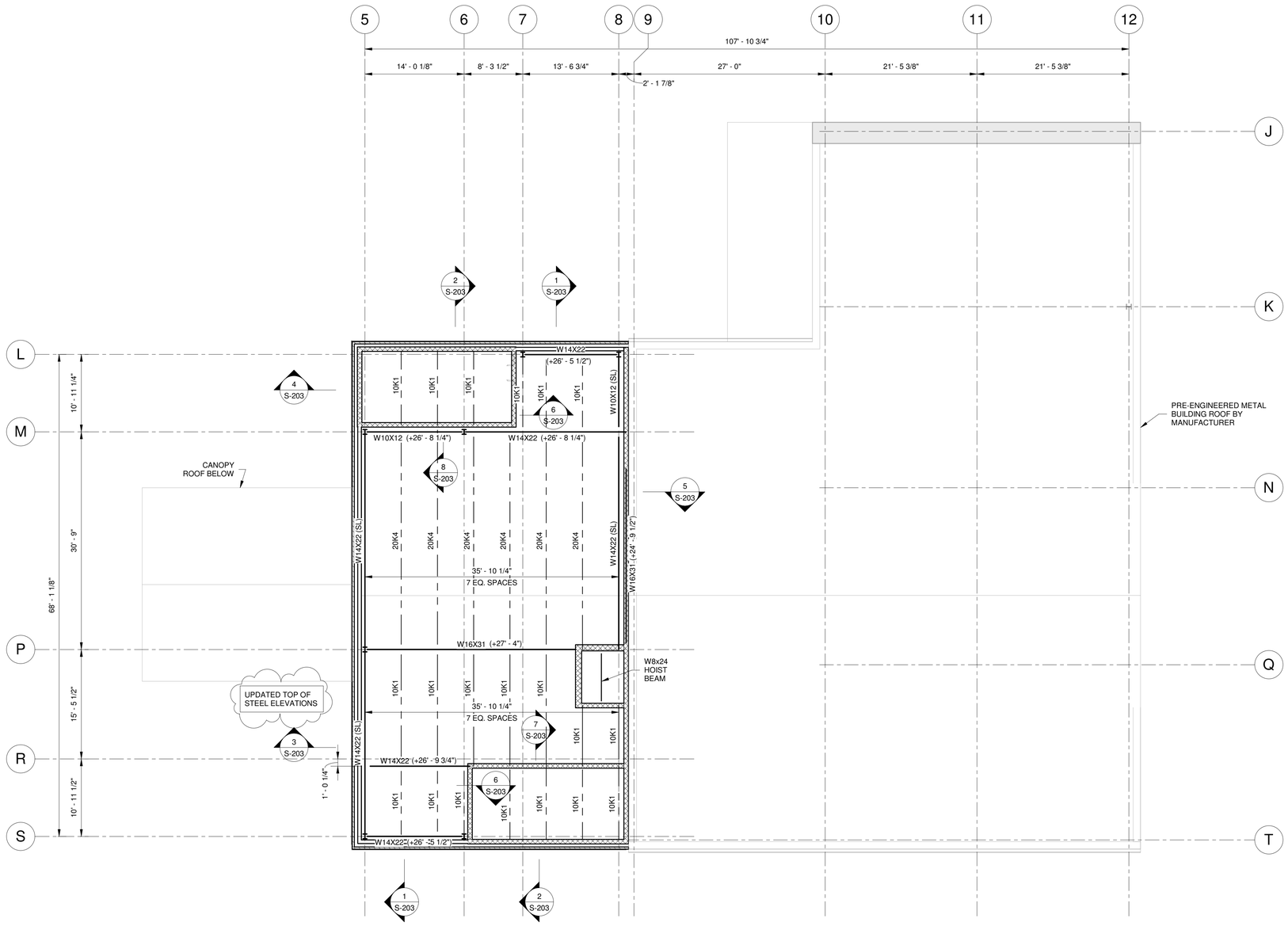

1 S-103 WAREHOUSE ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ENTIRE AREA TO RECEIVE 1 1/2", 20 GAGE, TYPE B, GALVANIZED METAL ROOF DECK, UNLESS NOTED OTHERWISE. SEE TYPICAL ROOF DECK ATTACHMENT DETAIL ON SHEET S002.
2. ALL ROOF JOISTS TO BE SPACED AT 5'-0" O.C. MAX., UNLESS NOTED OTHERWISE.
3. MARKS SHOWN THUS (+ XX'-XX") INDICATE TOP OF STEEL ELEVATION ABOVE FINISH FIRST FLOOR REFERENCE ELEVATION, 0'-00".
4. SEE TYPICAL CONSTRUCTION DETAILS.
5. SEE GENERAL NOTES ON SHEET S-001.

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03/28/22

MBFA No: 2102

WAREHOUSE ROOF FRAMING PLAN

S-103

SHEET

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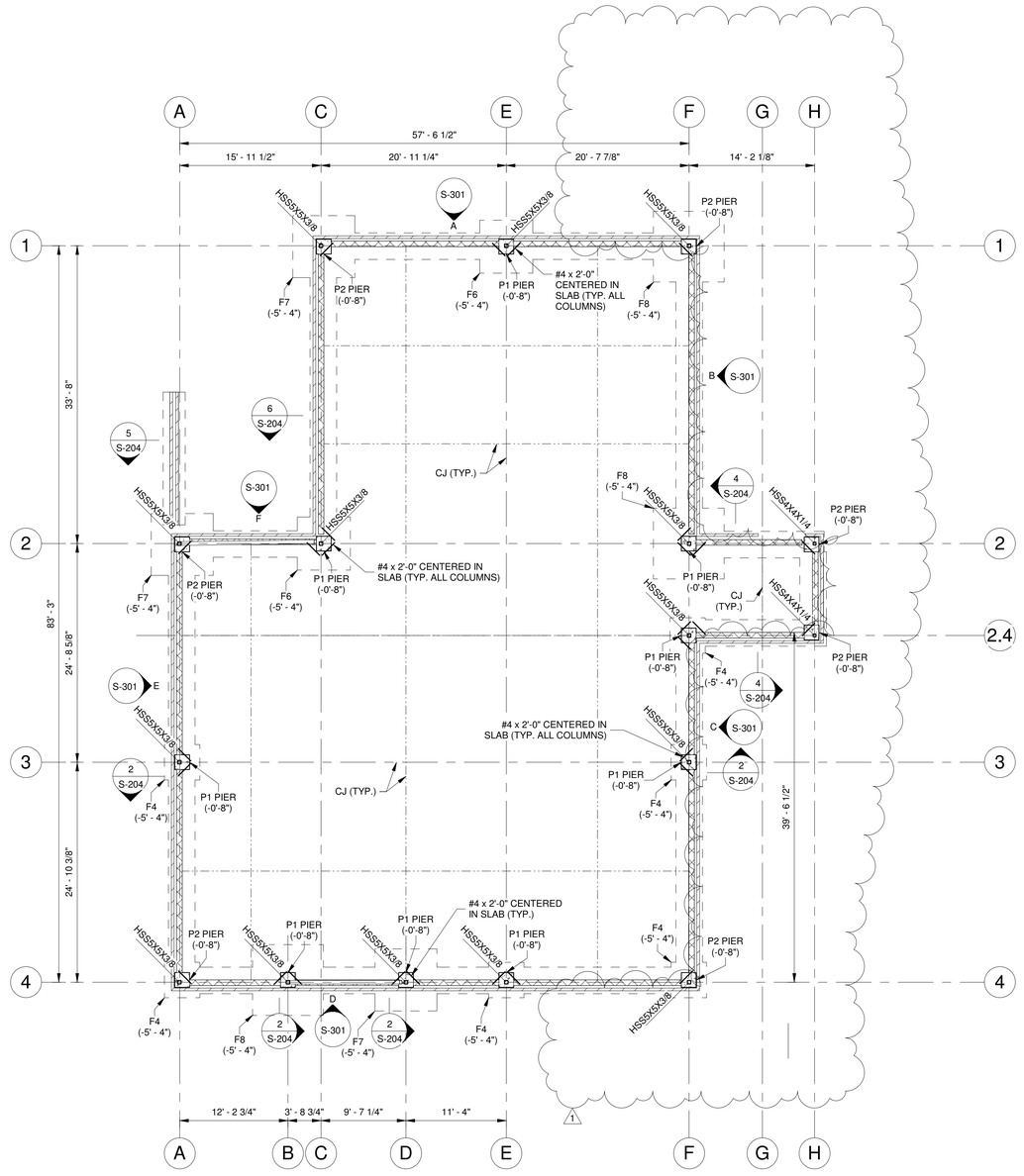

1 S-111 FOUNDATION PLAN
1/8" = 1'-0"

Foundation Plan Notes:

1. Entire area shall receive 4" concrete slab on grade reinforced with 6 X 6 - W2.1 X W2.1 welded wire reinforcing, unless noted otherwise. Slab shall bear on 4" of compacted, porous fill. Provide vapor barrier between slab and porous fill.
2. CJ (construction or control joints - contractor's option) shall be placed at each column centerline and intermediately spaced as shown on plan. See typical detail on sheet S001.
3. F_ on plan indicates a column footing. See typical detail and schedule on Sheet S001.
4. P_ on plan indicates a column pier. See typical detail on Sheet S002.
5. Marks shown thus (-xx'-xx") indicate top of footing. Contractor shall coordinate top of footing elevations with architectural, mechanical, electrical, plumbing, and civil drawings. The Structural Engineer shall be notified of conflicts or discrepancies in top of footing elevations.
6. Contractor shall coordinate with site drawings and provide footing steps as required. See typical detail on Sheet S001.
7. Finish slab elevation shall be 0'-0", unless noted thus (-___'-___") on plan.
8. See Typical Construction Details on Sheets S001 + S002.
9. See General Notes on Sheet S001.

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RETAIL STORE NO.4
FOUNDATION PLAN

S-111
SHEET

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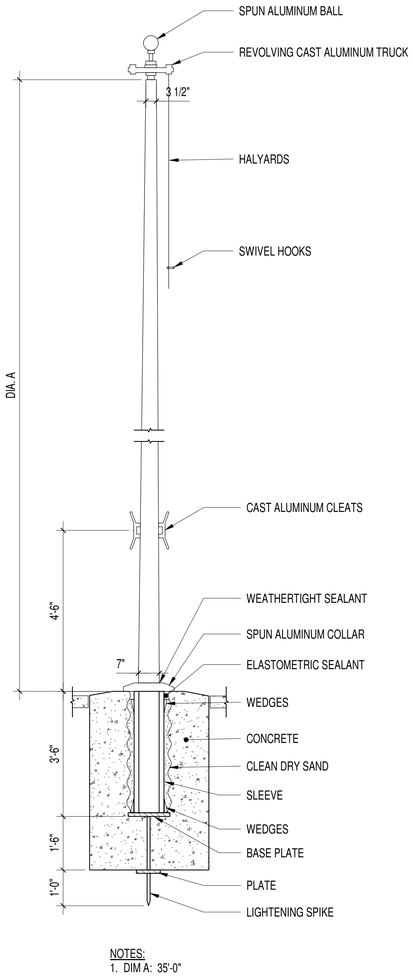
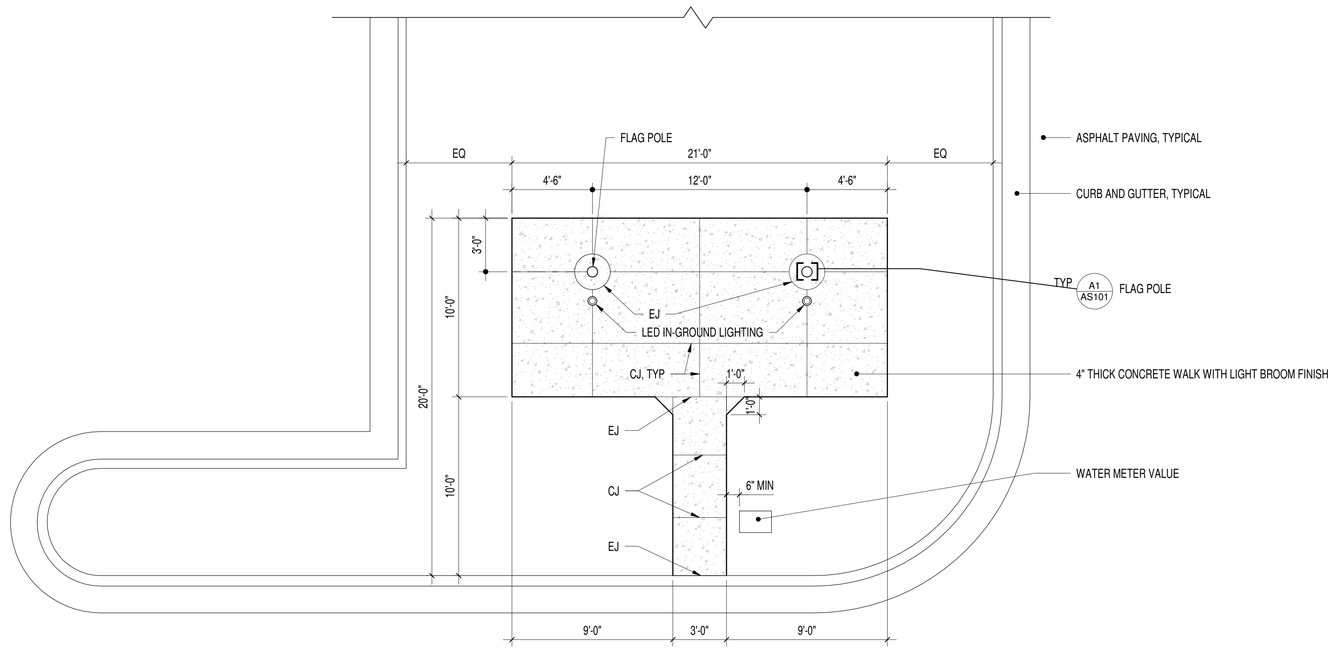


NOTES:
1. DIM A: 35'-0"

A1 FLAG POLE DETAIL

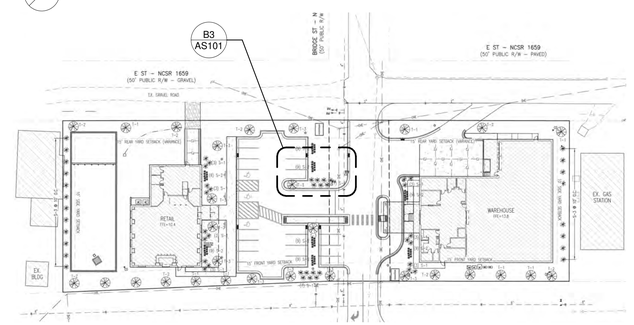
SCALE: 1/2" = 1'-0"



NOTES:
1. REFERENCE THE CIVIL DRAWINGS FOR COMPLETE SITE DESIGN INFORMATION
2. REFERENCE THE LANDSCAPE DRAWINGS FOR PLANTINGS

B3 PARTIAL SITE PLAN AT FLAG POLES

SCALE: 1/4" = 1'-0"



A5 KEY PLAN - SITE

SCALE: 1" = 60'-0"

GRAPHIC SCALE: 1"=60'
60' 0 60' 120'

GRAPHIC SCALE: 1/4"=1'-0"
4' 0 2' 4' 8'

GRAPHIC SCALE: 1/2"=1'-0"
2' 0 1' 2' 4'

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05.05.2022

MBF ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50679 NORTH CAROLINA NEW BERN NC.

MBFA No: 2102

SITE DETAILS

AS101
SHEET 1 OF 2

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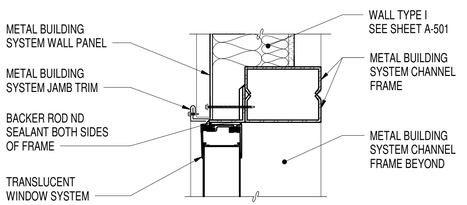
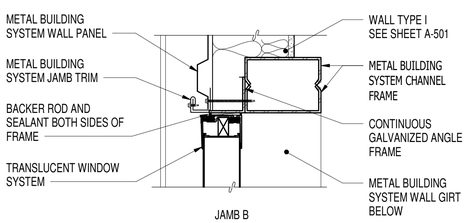
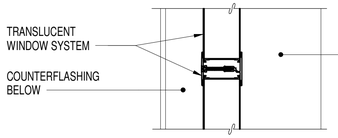


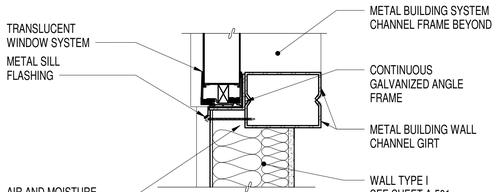
HEAD A



JAMB B



VERTICAL BATTEN C

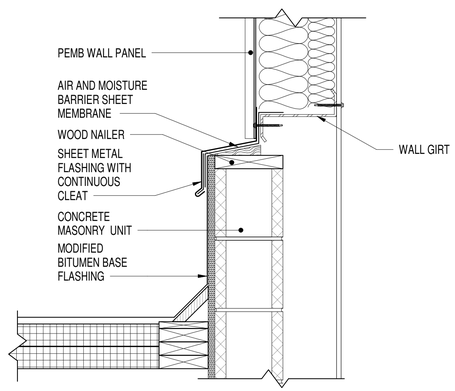


SILL D

NOTES:
1. SEAL PERIMETER OF WINDOW FRAME TO MAINTAIN AIR AND MOISTURE BARRIER INTEGRITY
2. TRANSLUCENT WINDOW SYSTEM IS 2 3/4" PANELS WITH ALUMINUM FRAME
3. SEAL LAPS AND PROVIDE END DAMS FOR SILL FLASHING

A1 TRANSLUCENT WINDOW DETAILS

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



A3 PARAPET AND PEMB CONNECTION

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

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

1' 6" 3" 0 1'

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ADDENDUM DRAWINGS

AS102

SHEET 2 OF 2

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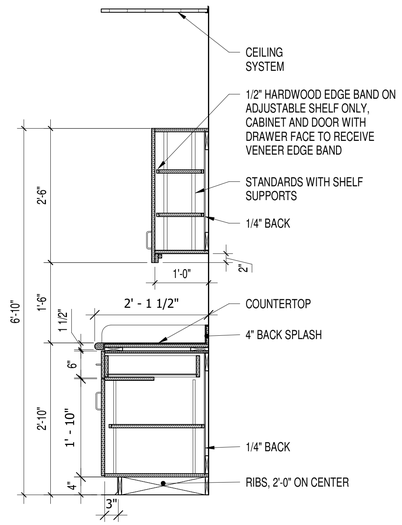
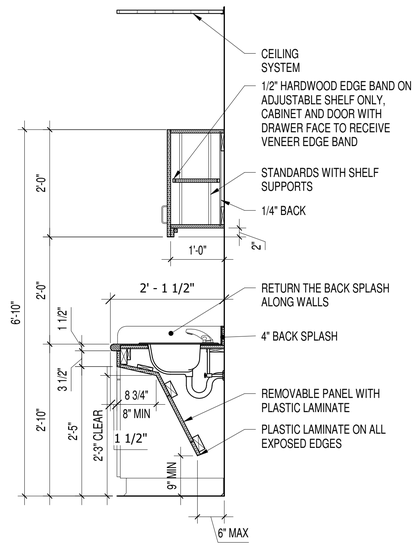


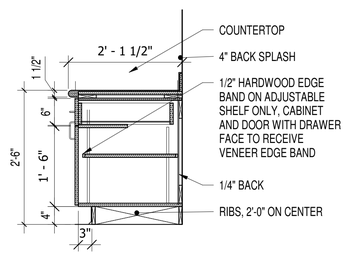
C1 BASE AND WALL CABINET DETAIL

SCALE: 3/4" = 1'-0"



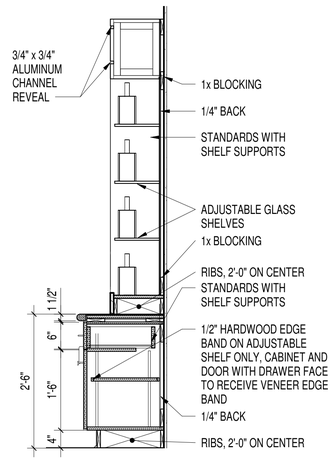
C2 LAVATORY AND WALL CABINET DETAIL

SCALE: 3/4" = 1'-0"



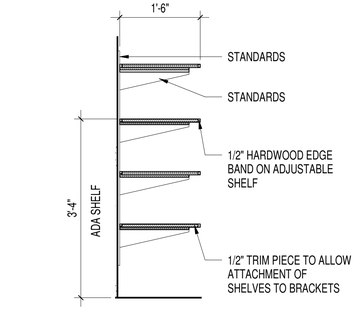
C3 BASE CABINET DETAIL

SCALE: 3/4" = 1'-0"



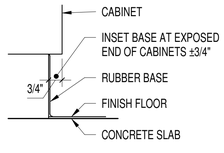
C4 BASE CABINET AND SHELVING DETAIL

SCALE: 3/4" = 1'-0"



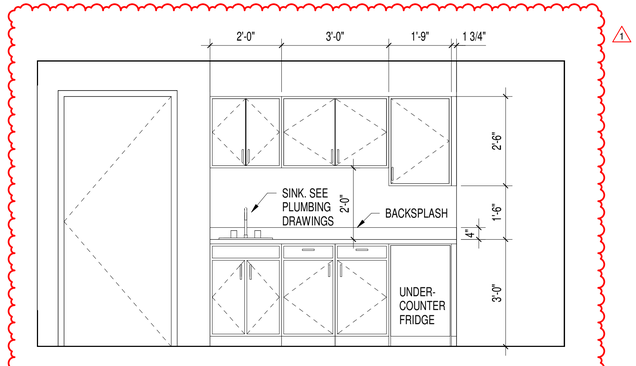
B1 ADJUSTABLE SHELVING DETAIL

SCALE: 3/4" = 1'-0"



B2 CABINET DETAIL

SCALE: 3" = 1'-0"



B3 WAREHOUSE - BOARD ROOM CASEWORK

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

GRAPHIC SCALE: 3/4"=1'-0"
1' 0 1' 2' 3'

GRAPHIC SCALE: 3"=1'-0"
0 3" 6" 1"

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MBFA No: 2102

MILLWORK DETAILS

A-402
SHEET 56 OF 110

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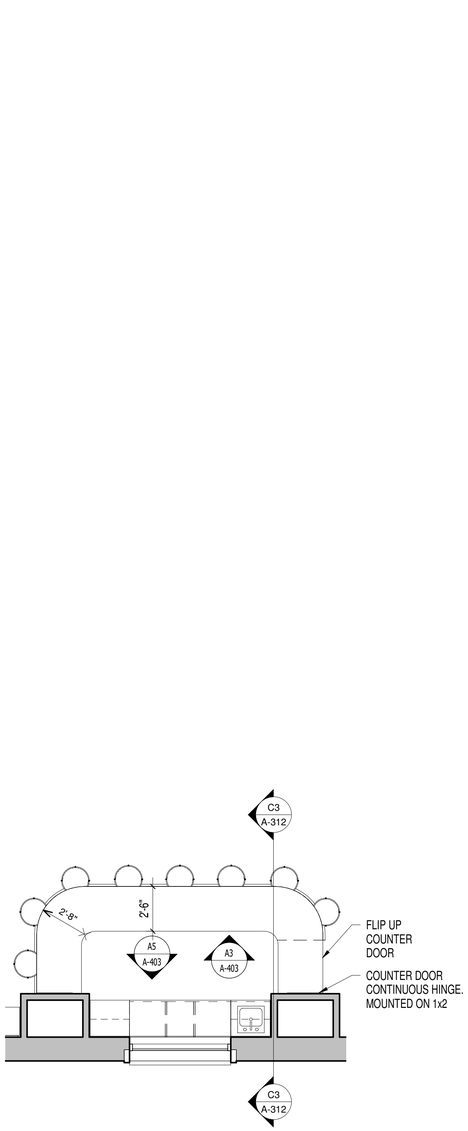
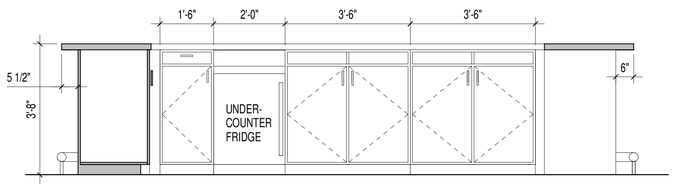


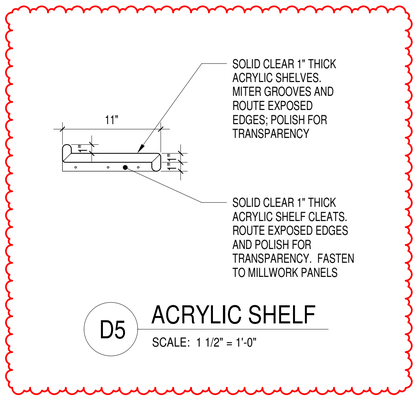
A1 TASTING COUNTER ENLARGED PLAN

SCALE: 1/4" = 1'-0"



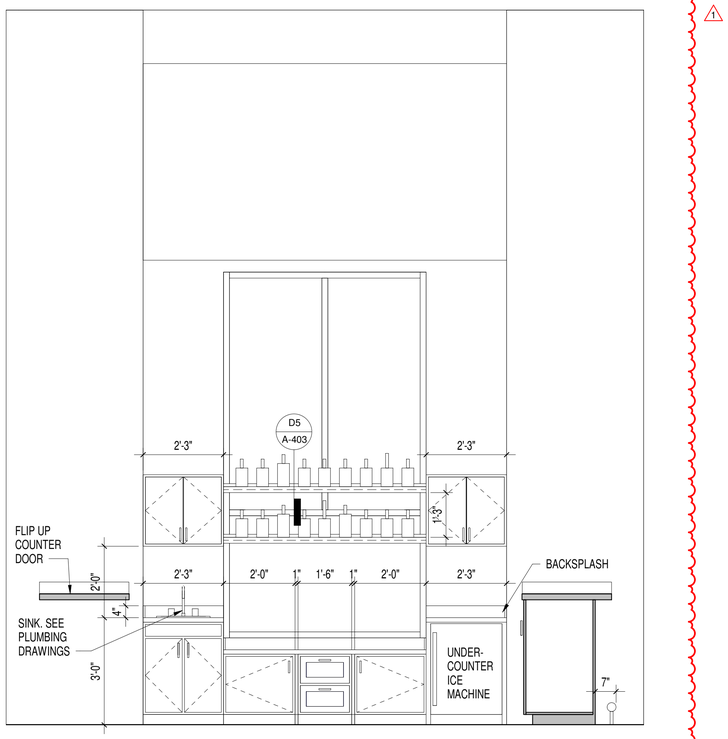
A3 RETAIL - TASTING BAR ELEVATION

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



D5 ACRYLIC SHELF

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



A5 TASTING COUNTER ELEVATION

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

GRAPHIC SCALE: 1/4"=1'-0"

4' 0 2' 4' 8'

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

2' 0 1' 2' 4'

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ENLARGED TASTING BAR PLAN AND ELEVATIONS

A-403

SHEET 57 OF 110

File Path: S:\projects\2021\2102 ABC Store No.4 & Warehouse\2102 Design\2102 Dwgs\2102 ARCH-2021 REVISED.rvt
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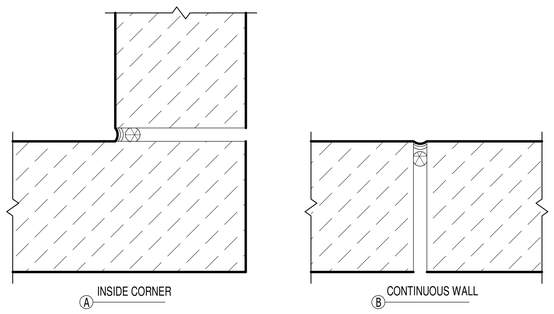
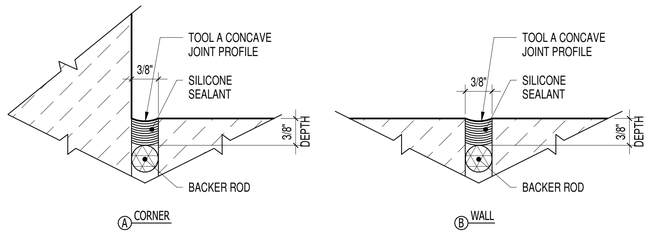
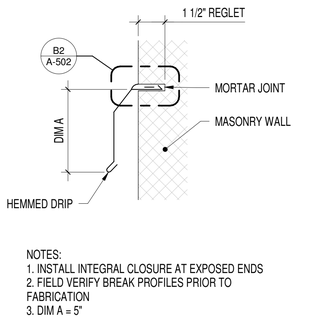


NOTES:
1. SEE BUILDING ELEVATIONS FOR LOCATIONS
2. BREAK HORIZONTAL REINFORCEMENT AT VERTICAL JOINTS
3. HORIZONTAL JOINTS ARE SIMILAR
4. PROVIDE BRICK CONTROL JOINTS AT 30'-0" ON CENTER AS ILLUSTRATED ON THE ELEVATIONS

C1 CONTROL JOINTS DETAILS
SCALE: 6" = 1'-0"

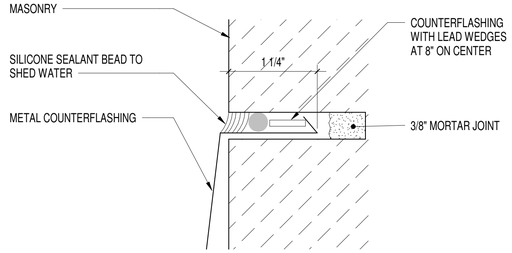


C3 SEALANT POCKET DETAILS
SCALE: 12" = 1'-0"

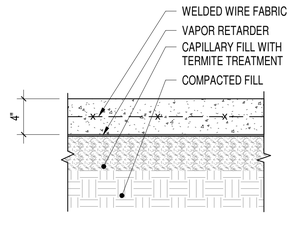


NOTES:
1. INSTALL INTEGRAL CLOSURE AT EXPOSED ENDS
2. FIELD VERIFY BREAK PROFILES PRIOR TO FABRICATION
3. DIM A = 5"

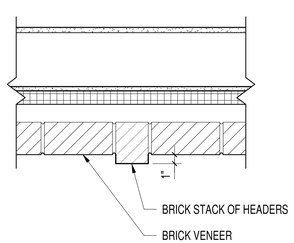
B1 COUNTERFLASHING DETAIL
SCALE: 3" = 1'-0"



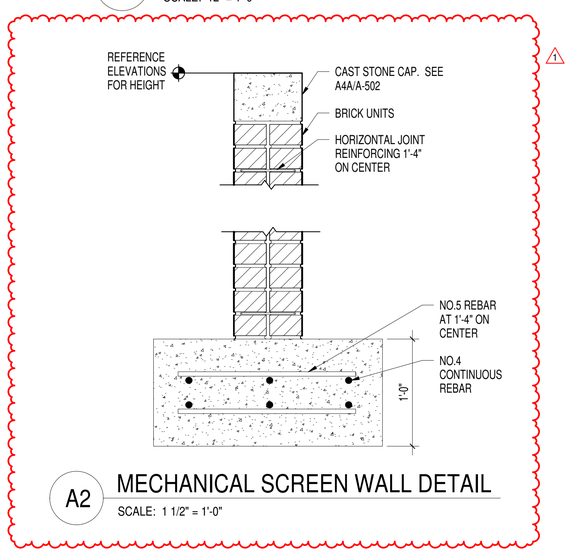
B2 TYPICAL REBLET DETAIL
SCALE: 12" = 1'-0"



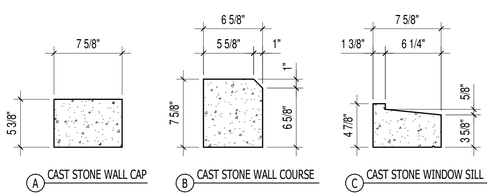
B3 SLAB DETAIL
SCALE: 1 1/2" = 1'-0"



A1 STACKED BRICK DETAIL
SCALE: 1 1/2" = 1'-0"



A2 MECHANICAL SCREEN WALL DETAIL
SCALE: 1 1/2" = 1'-0"



A4 CAST STONE DETAIL
SCALE: 1 1/2" = 1'-0"

GRAPHIC SCALE: 1 1/2"=1'-0"
1' 6" 3" 0 1'

GRAPHIC SCALE: 3"=1'-0"
0 3" 6" 1"

GRAPHIC SCALE: 6"=1'-0"
0 3" 6"

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ABC STORE NO. 4 & WAREHOUSE
BRIDGETON, CRAVEN COUNTY
CRAVEN COUNTY ABC BOARD

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REVISIONS	#	DATE	DESCRIPTION
	1	2022.06.09	Addendum No. 1

BID SET

DARDEN J. EURE, III 8640 NEW BERN NC
05.05.2022

MBF ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA CERT. NO. 50679 NEW BERN N.C.

MBFA No: 2102

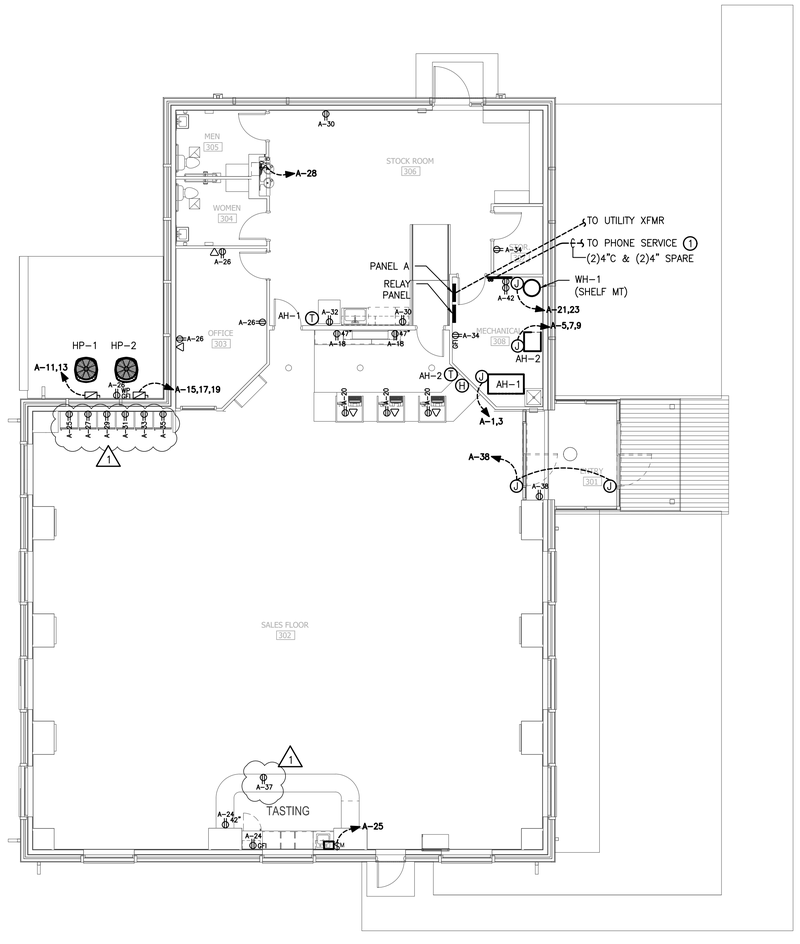
MASONRY DETAILS

A-502
SHEET 63 OF 110

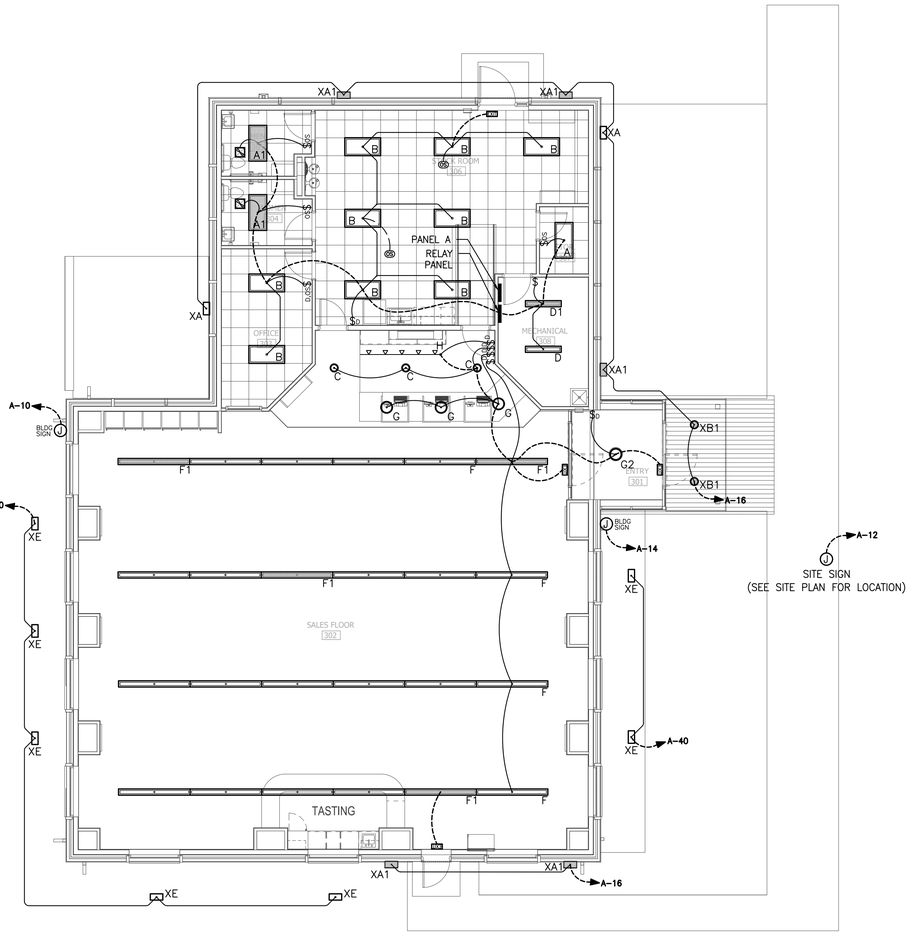
File Path: S:\projects\2021\2102 ABC Store No.4 & Warehouse\2102 Design\2102 Dwgs\2102 ARCH-2021.rvt
Print Date: 6/10/2022 9:44:14 AM

INSTALLATION KEYED NOTES "#":

1. INSTALL(2) 4"C TO PHONE SERVICE AND (2) 4" SPARE CONDUITS FROM PHONEBOARD TO 6 FEET BEYOND BUILDING AND CAP. STUB SPARE RACEWAYS UP TO PHONE CONDUITS. PROVIDE 3" WIDE DETECTABLE MARKING TAPE ABOVE SPARE RACEWAYS.



1 ELECTRICAL POWER & RECEPTACLES PLAN
SCALE: 1/8"=1'-0"



2 ELECTRICAL LIGHTING PLAN
SCALE: 1/8"=1'-0"

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Revisions

No.	Date	Description
1	6-8-22	ADDENDUM No. 1

FOR CONSTRUCTION
MARCH 30, 2022

EnTech ENGINEERING
NC LIC #: C-1132
1071 N. BERKELEY BLVD.
GOLDSBORO, NC 27534
TEL: (919) 778-9064
PROJECT NO. 221024
PROJECT MGR. D. HAM

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM 6/8/22

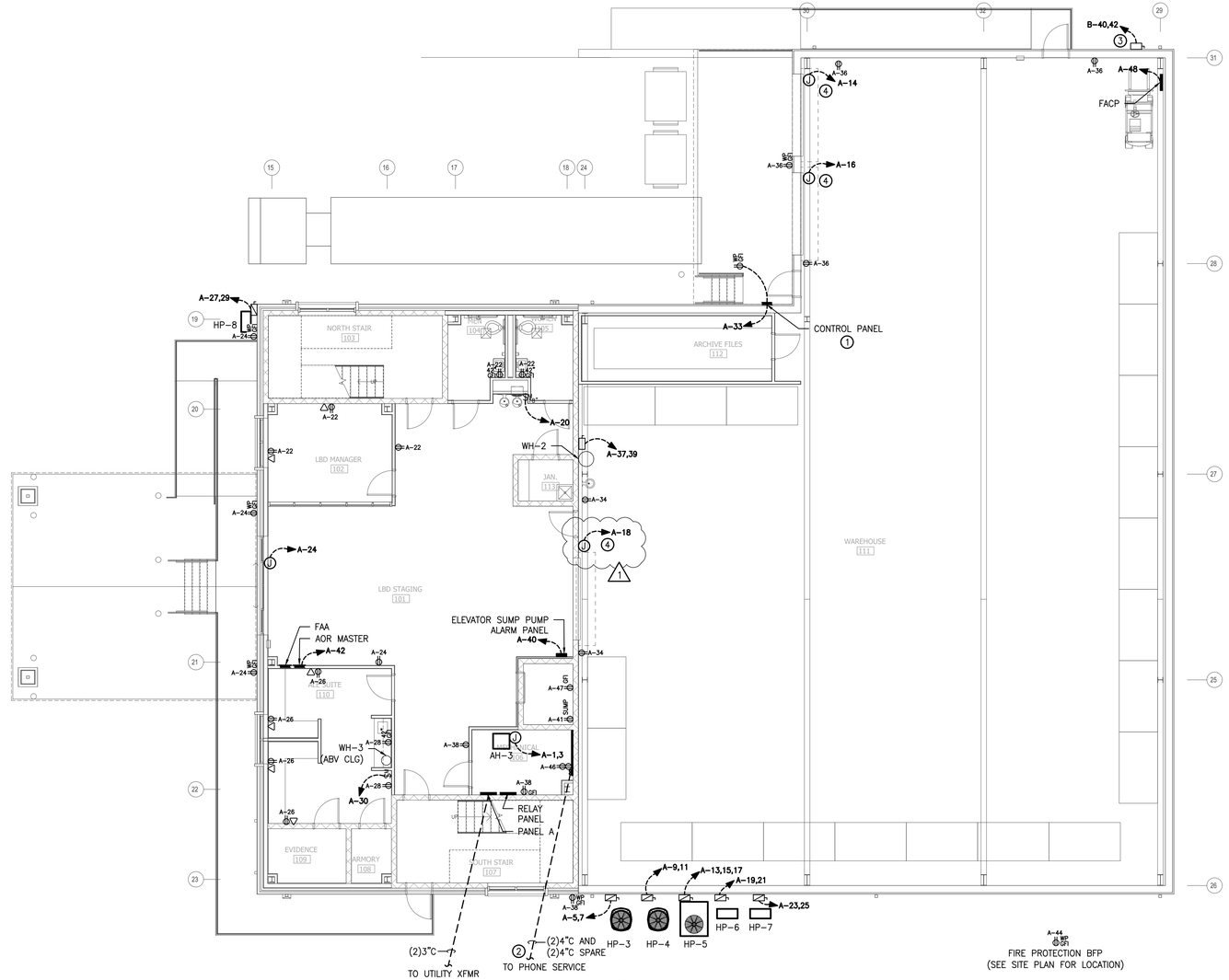
MBFA Job#: 2102

ELECTRICAL PLANS
RETAIL STORE

E-101
SHEET 1 OF 10

INSTALLATION KEYED NOTES "#":

1. COORDINATE WITH DOCK LEVELER SUPPLIER FOR ALL REQUIRED RACEWAYS AND WIRING.
2. PROVIDE (2) 4" CONDUITS TO PHONE SERVICE AND (2) 4" SPARE CONDUITS 6 FEET BEYOND BUILDING AND CAP. STUB SPARE RACEWAYS UP NEXT TO PHONE CONDUITS. PROVIDE 3" WIDE DETECTABLE MARKING TAPE ABOVE SPARE RACEWAYS.
3. COORDINATE FORK LIFT CHARGER LOCATION WITH ARCHITECT AND OWNER.
4. PROVIDE RACEWAY AND WIRING FOR DOOR CONTROLS. REFERENCE MANUFACTURERS INSTALLATION MANUAL FOR REQUIREMENTS.



1 ELECTRICAL POWER & RECEPTACLES PLAN - WAREHOUSE 1st FLOOR
SCALE: 1/8"=1'-0"

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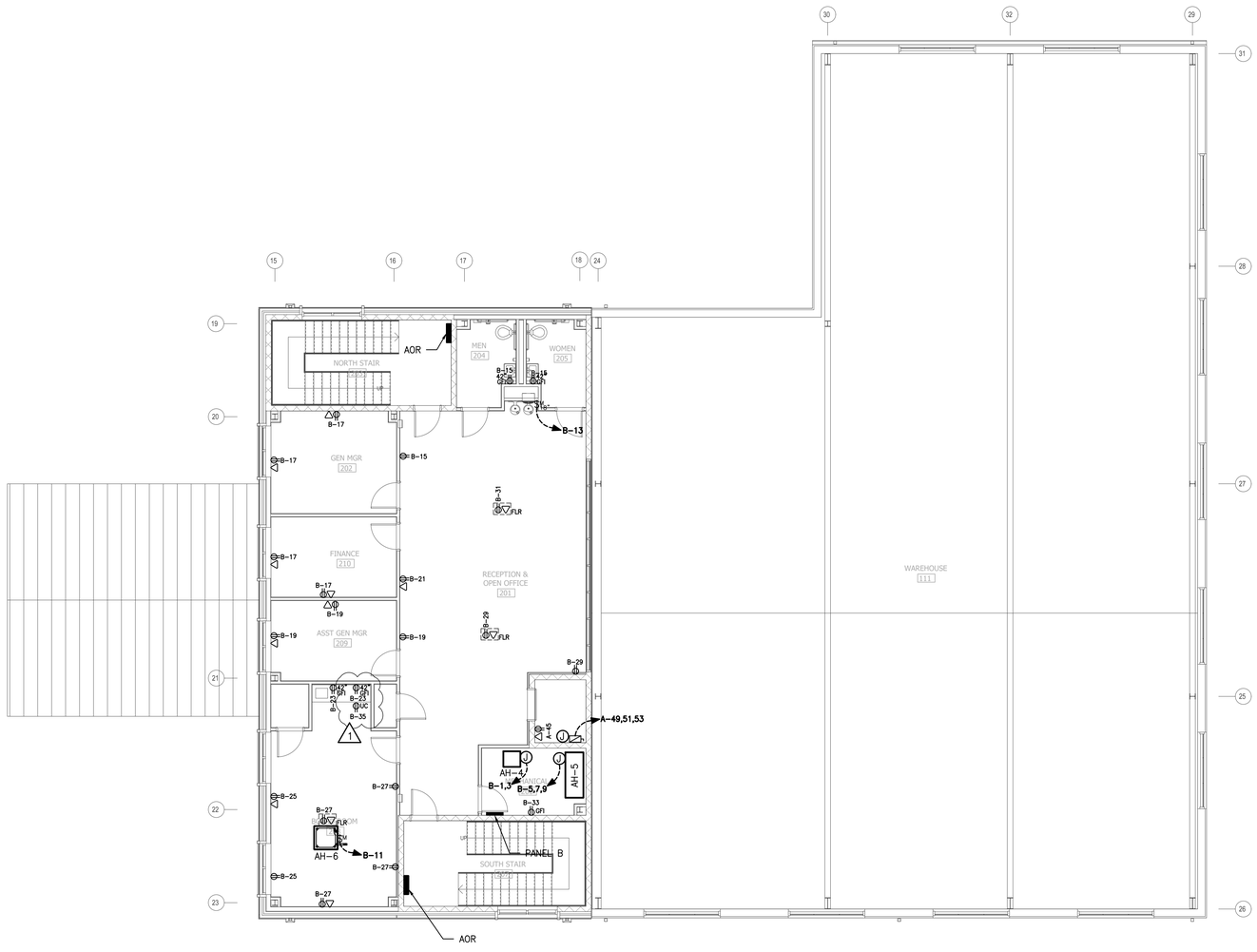
PROJECT NO. 221024
PROJECT MGR. D. HAM

SEAL

MBFA Job#: 2102

ELECTRICAL PLANS
WAREHOUSE

E-102
SHEET 2 OF 10



1 ELECTRICAL POWER & RECEPTACLES PLAN - WAREHOUSE 2nd FLOOR
SCALE: 1/8"=1'-0"

N

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SEAL

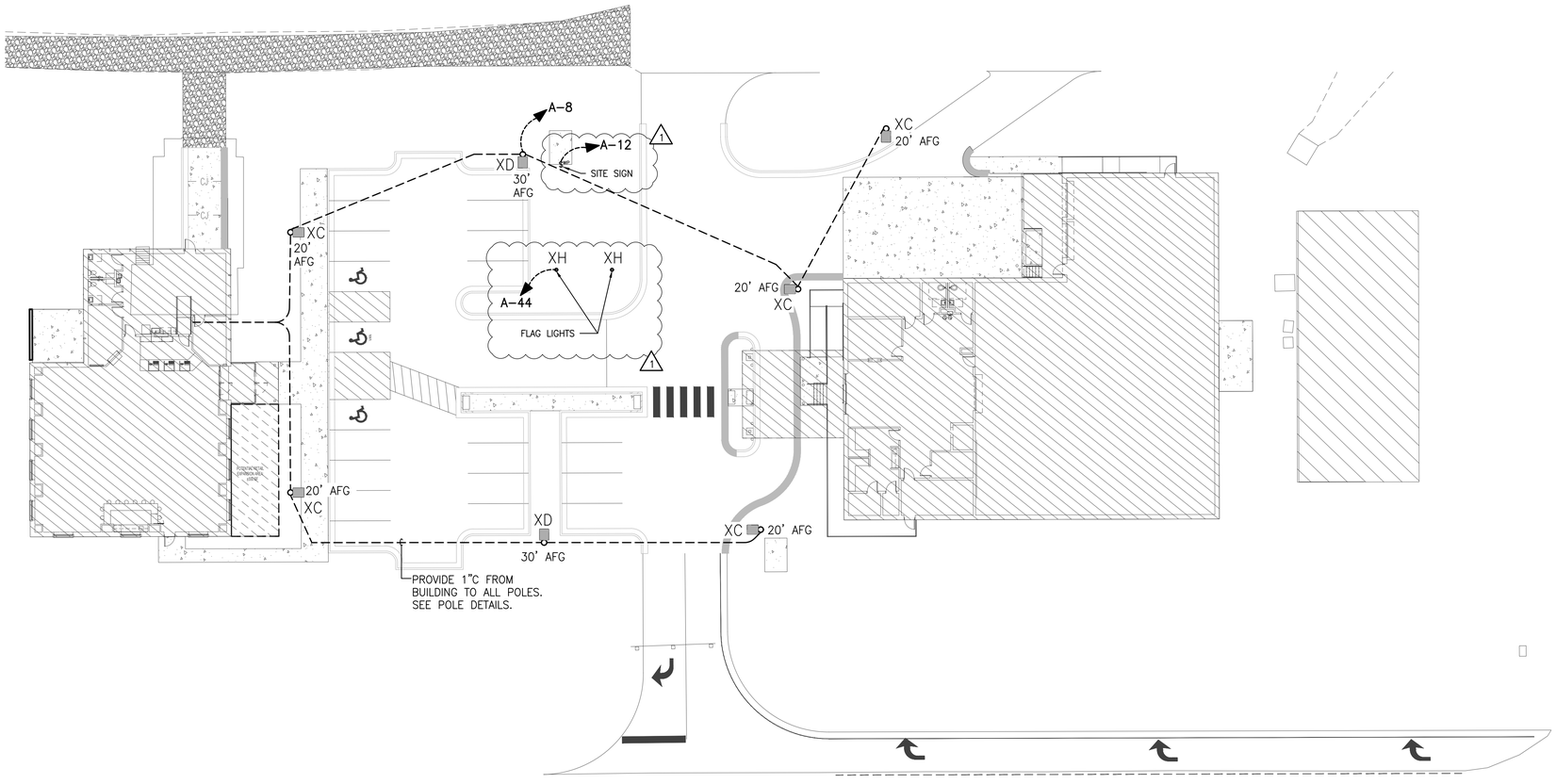
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 JAMES D. HAM 6/8/22

MBFA Job#: 2102

ELECTRICAL PLANS
WAREHOUSE

E-103

SHEET 3 OF 10



1 ELECTRICAL SITE PLAN
SCALE: 1"=20'

N

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PROJECT MGR. D. HAM

SEAL

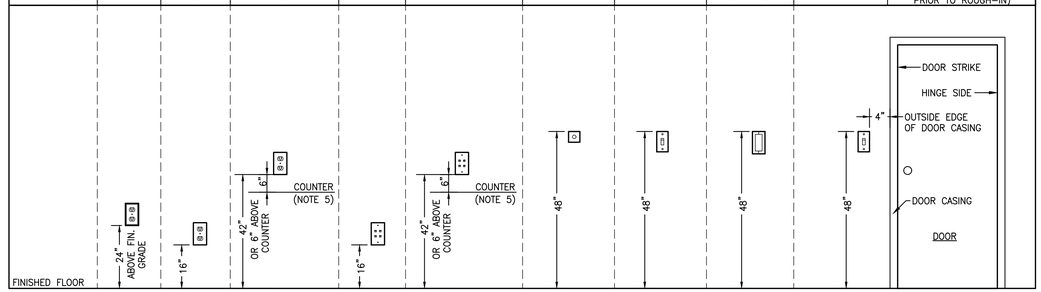
SEAL
31466
JAMES D. HAM
ENGINEER
NORTH CAROLINA PROFESSIONAL
6/8/22

MBFA Job#: 2102

ELECTRICAL SITE
LIGHTING PLAN

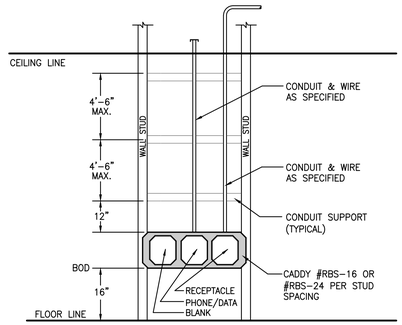
E-106
SHEET 6 OF 10

DEVICE DESCRIPTION	EXTERIOR RECEPTACLE	DUPLEX RECEPTACLE	ABOVE COUNTER RECEPTACLE	PHONE/DATA	ABOVE COUNTER PHONE/DATA	ALL OTHER WALL MOUNTED CONTROL DEVICES	EXHAUST FAN WALL SWITCH/SPEED CONTROL	HVAC THERMOSTAT OR SENSOR	LIGHT SWITCH OR OTHER LIGHTING CONTROL DEVICE	LIGHT SWITCHES AND OTHER LIGHTING CONTROL DEVICES SHALL ALWAYS BE LOCATED ON THE STRIKE SIDE OF THE DOORWAY. (VERIFY DOOR SWINGS PRIOR TO ROUGH-IN)
EXAMPLES OF DEVICE SYMBOLS	WP GFI						$ / $SC	T OR S	$	



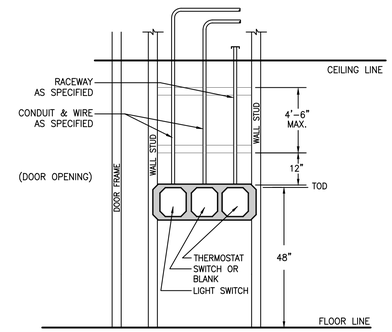
NOTES:
1. **THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES.**
2. **ALL DEVICES MAY NOT APPLY TO THIS PROJECT.**
3. **ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.**
4. **REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES.**
5. **VERIFY COUNTER AND BACKSLASH HEIGHTS PRIOR TO ROUGH-IN.**

1 DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.

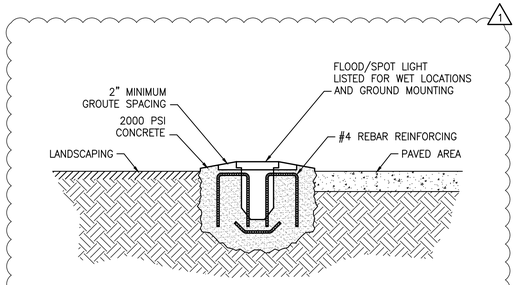


NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.

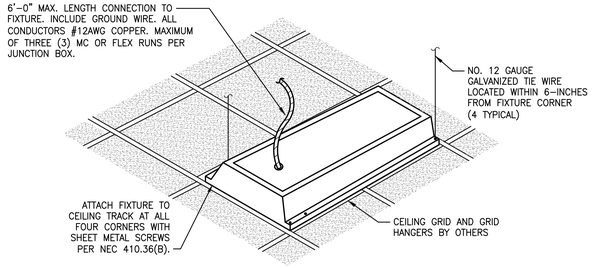
2 TYPICAL DEVICE MOUNTING
SCALE: N.T.S.



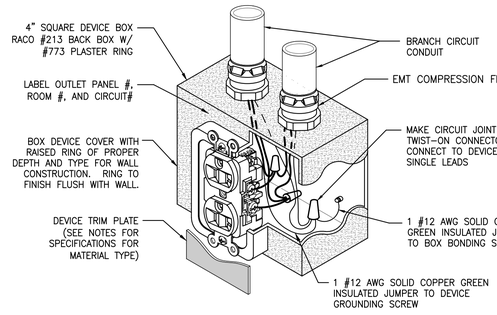
NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.
3. LIGHT SWITCHES SHALL BE MOUNTED WITHIN 4" OF DOOR FRAME. USE SAME WIDTH IN ALL LOCATIONS. COORDINATE ADDITIONAL FRAMING WITH G.C. TO MAKE SPACING THE SAME IN ALL ROOMS OF SIMILAR TYPE.



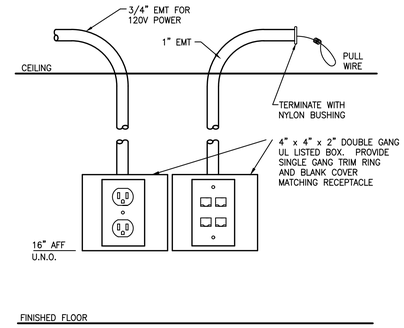
3 GROUND MOUNTED LIGHT
SCALE: N.T.S.



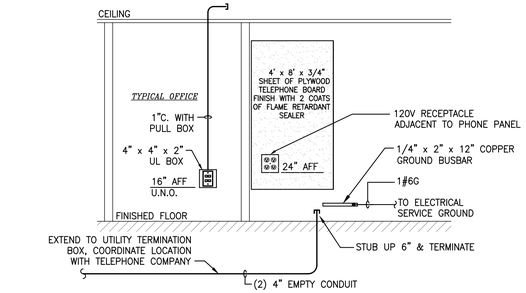
4 TYPICAL RECESSED FIXTURE SUPPORT
SCALE: N.T.S.



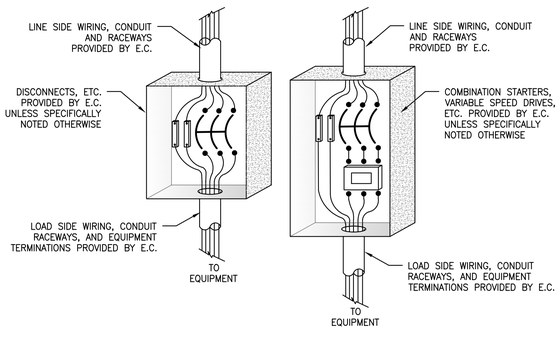
5 RECEPTACLE GROUNDING DIAGRAM
SCALE: N.T.S.



6 POWER/DATA/PHONE OUTLET DETAIL
SCALE: N.T.S.



7 TELEPHONE SYSTEM DIAGRAM
SCALE: N.T.S.



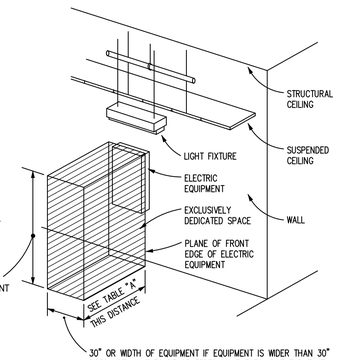
8 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.

TABLE "A" WORKING CLEARANCES			
VOLTAGE TO GROUND	CONDITION: 1	2	3
(NOMINAL)	(MINIMUM CLEAR DISTANCE)		
0-150	3'	3'	3'
151-600	3'	3 1/2'	4'

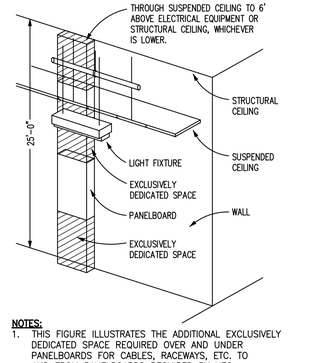
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIFE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTES:
1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY NEC SECTION 110-26.
2. THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.



ALL ELECTRIC EQUIPMENT



NOTES:
1. THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY NEC SECTION 110-26.
2. NO PIPING DUCTWORK OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN. FOR EXCEPTIONS SEE NEC SECTION 110-26f.

PANELBOARDS

9 DEDICATED WORKING SPACE REQUIREMENTS
SCALE: N.T.S.

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PROJECT MGR. D. HAM

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM 6/8/22

MBFA Job#: 2102

ELECTRICAL DETAILS

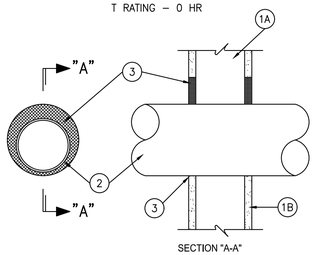
E-201
SHEET 7 OF 10

SERVICE LOAD SUMMARY - RETAIL STORE					
OCCUPANCY TYPE – BUSINESS			BUILDING AREA – 4,345 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD
INDOOR LIGHTING (3W/SF)	13 KVA	TABLE 220.12	100 %	TABLE 220.42	13 KVA
OUTDOOR LIGHTING	0.4 KVA	--	100 %	--	0.4 KVA
SIGN LIGHTING	1.2 KVA	220.14 F	100 %	--	1.2 KVA
TRACK LIGHTING	0.5 KVA	220.43	100 %	--	0.5 KVA
AIR HANDLER FANS (SPLIT SYSTEMS)	2 KVA	ARTICLE 440	100 %	--	2 KVA
AIR HANDLER ELECTRIC HEAT	24.5 KVA	422.12	100 %	--	24.5 KVA
HVAC OUTDOOR UNIT	12.5 KVA	ARTICLE 440	100 %	--	12.5 KVA
WATER HEATERS	7.5 KVA	422.13	100 %	--	7.5 KVA
SUBTOTAL CONTINUOUS LOADS					61.6 KVA
				230.42 (A)(1)	X 125%
				CONT. LOAD TOTAL	77 KVA
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES	4.5 KVA	220.14 I	100% OF 1ST 10 KVA, 50% ABOVE 10 KVA	TABLE 220.44	4.5 KVA
MISC. LOADS	2 KVA	--	NONCONTINUOUS LOAD x 100%	--	2 KVA
LIFT STATION	5.7 KVA	--	NONCONTINUOUS LOAD x 100%	--	5.7 KVA
SUBTOTAL NON-CONTINUOUS LOADS					12.2 KVA
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					89 KVA

FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS	SERVICE LOAD
$\frac{75 \text{ KVA (X-FORMER)}}{0.208 \times \sqrt{3} \times 1.6\%Z} = 13{,}000$ AMPS	$\frac{89 \text{ KVA}}{0.208 \times \sqrt{3}} = 247$ AMPS

UL SYSTEM NO. W-L-1108

F RATING – 1 HR
T RATING – 0 HR



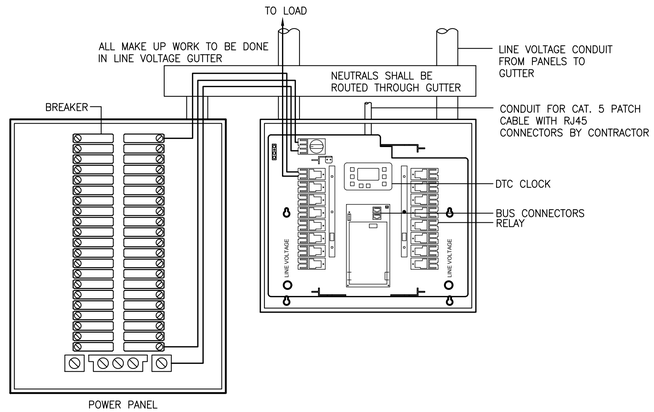
SECTION "A-A"

1. WALL ASSEMBLY – THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
   B. WALLBOARD, GYPSUM* – ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 11-3/4 IN.
2. THROUGH PENETRANTS – ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
   A. STEEL PIPE – NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   B. IRON PIPE – NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   C. CONDUIT – NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   D. COPPER TUBING – NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
   E. COPPER PIPE – NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
3. FILL, VOID OR CAVITY MATERIAL*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.-METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

2 UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.



POWER PANEL

NOTES:

1. PROGRAM ON/OFF TIMES PER OWNER'S INSTRUCTIONS
2. MAIN CONTROL UNIT SHALL HAVE INTERNAL WEB SERVER AND INTERFACE TO ALLOW CONNECTION TO NETWORK.
3. PROVIDE CONSTANT HOT WIRE WHICH BYPASSES THE RELAY FOR EMERGENCY BATTERY POWER. DO NOT WIRE BATTERIES TO SWITCHED OR RELAY CONTROLLED OUTPUT WIRE.
4. **SEE PANEL SCHEDULES FOR REQUIRED LOADS WIRED THROUGH RELAY PANEL.**

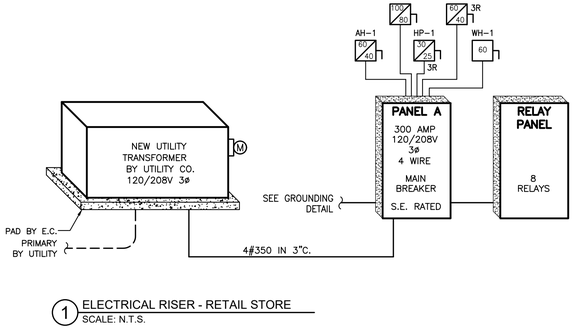
3 LIGHTING CONTROL DETAIL
SCALE: N.T.S.

PANELBOARD SCHEDULE - STORE															
PANEL A	FLUSH MOUNTED					SERVICE ENTRANCE RATED			300 AMP (FEEDER SIZE)						3ø, 4 WIRE
MAIN BREAKER	BOTTOM FEED					10K AIC			120/208 VOLT						BOLT ON BREAKER
NEMA 1	COPPER BUS								400 AMP (BUS RATING)						SURGE SUPRESSION
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
AH-1	2#8 & 1#10G	3/4"	31			1	40		20	2	6			3/4"	2#12 & 1#12G	LIGHTS	
				31		3		80		4		9		3/4"	2#12 & 1#12G	LIGHTS	
AH-2	3#4 & 1#8G	1"			58	5			20	6			8	3/4"	2#12 & 1#12G	LIGHTS	
			58			7			20	8	4			3/4"	2#12 & 1#12G	PARKING LIGHTS	NOTE 3
				58		9		25		10		5		3/4"	2#12 & 1#12G	REAR BLDG SIGN	NOTE 3
HP-1	2#12 & 1#12G	3/4"			12	11			20	12			3	1"	2#12 & 1#12G	SITE SIGN	NOTE 3
			12			13		40		14	5			3/4"	2#12 & 1#12G	FRONT BLDG SIGN	NOTE 3
				28		15			20	16		1		3/4"	2#12 & 1#12G	EXTERIOR LIGHTS	NOTE 3
HP-2	3#8 & 1#10G	3/4"			28	17			20	18			5	3/4"	2#12 & 1#12G	SALES FLR RECEP	
			28			19		40		20	6			3/4"	2#12 & 1#12G	SALES FLR RECEP	
WH-1	2#8 & 1#10G	3/4"		29		21			20	22		3		3/4"	2#12 & 1#12G	SALES FLR RECEP	
					29	23			20	24			7	3/4"	2#12 & 1#12G	SALES FLR RECEP	
NOTE 1 RETAIL COOLER	2#12 & 1#12G	3/4"	8			25			20	26	6			3/4"	2#12 & 1#12G	OFFICE RECEP	
NOTE 1 RETAIL COOLER	2#12 & 1#12G	3/4"		8		27			20	28		6		3/4"	2#12 & 1#12G	WATER COOLER	NOTE 1
NOTE 1 RETAIL COOLER	2#12 & 1#12G	3/4"			8	29			20	30			5	3/4"	2#12 & 1#12G	STOCK RM RECEP	
NOTE 1 RETAIL COOLER	2#12 & 1#12G	3/4"	8			31			20	32	8			3/4"	2#12 & 1#12G	REFRIGERATOR	NOTE 1
NOTE 1 RETAIL COOLER	2#12 & 1#12G	3/4"		8		33			20	34		5		3/4"	2#12 & 1#12G	STOCK RM RECEP	
NOTE 1 RETAIL COOLER	2#12 & 1#12G	3/4"			8	35			20	36			2	3/4"	2#12 & 1#12G	MECH RM RECEP	
NOTE 1 UC FRIDGE	2#12 & 1#12G	3/4"	5			37			20	38	8			3/4"	2#12 & 1#12G	ENTRY DOOR PWR	
SPARE	–	–			–	39			20	40		3		1"	2#12 & 1#12G	BLDG FACADE LTG	NOTE 3
SPARE	–	–			–	41			20	42			3	3/4"	2#12 & 1#12G	PHONEBOARD	
SPARE	–	–	–			43			20	44	3			1"	2#12 & 1#12G	FLAG LIGHTS	NOTE 3
SPARE	–	–		–		45			20	46						SPARE	
SPARE	–	–			–	47			20	48			–	–	–	SPARE	
SPARE	–	–	–			49			20	50	–			–	–	SPARE	
SPARE	–	–		–		51			20	52		–		–	–	SPARE	
SPARE	–	–			–	53			20	54			–	–	–	SPARE	

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

GROSS PHASE TOTALS (AMPS) A = 188 B = 169 C = 169

1. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489
2. PROVIDE 30MA GFPE BREAKER FOR EQUIPMENT PROTECTION
3. WIRE THROUGH RELAY CONTROL PANEL



1 ELECTRICAL RISER - RETAIL STORE
SCALE: N.T.S.

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ABC STORE NO. 4 & WAREHOUSE

BRIDGETON, CRAVEN COUNTY

CRAVEN COUNTY ABC BOARD

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Revisions		
No.	Date	Description
1	6-8-22	ADDENDUM No. 1

FOR CONSTRUCTION
MARCH 30, 2022

EnTech ENGINEERING
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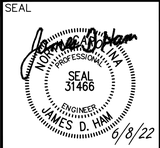
PROJECT NO. 221024

PROJECT MGR. D. HAM

SEAL



MBFA Job#: 2102

ELECTRICAL SCHEDULES
RETAIL STORE

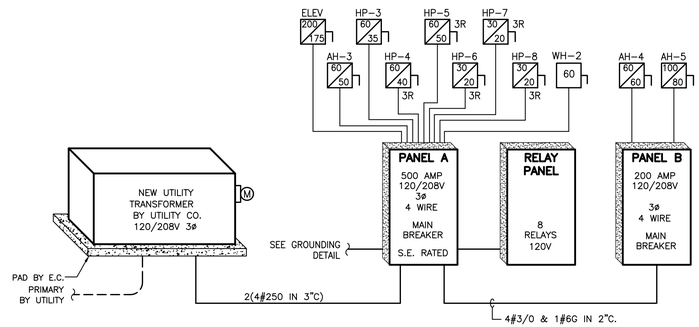
E-301

SHEET 8 OF 10

SERVICE LOAD SUMMARY - WAREHOUSE

OCCUPANCY TYPE – BUSINESS, STORAGE			BUILDING AREA – 11,360 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING	28.0	TABLE 220.12	100%	TABLE 220.42	28.0
OUTDOOR LIGHTING	1.0	--	100%	--	1.0
SIGN LIGHTING	1.2	220.14 F	100%	--	1.2
AIR HANDLER FANS (SPLIT SYSTEMS)	5.0	ARTICLE 440	100%	--	5.0
AIR HANDLER ELECTRIC HEAT	33.1	422.12	100%	--	33.1
HVAC OUTDOOR UNIT	20.8	ARTICLE 440	100%	--	20.8
WATER HEATERS	7.5	422.13	100%	--	7.5
SUBTOTAL CONTINUOUS LOADS					96.6
				230.42 A 1	x 125%
				CONT. LOAD TOTAL	120.8
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	7.7	220.14 1	100% OF 1st 10 KVA		7.7
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
OVERHEAD DOORS	2.0	--	NONCONTINUOUS LOAD x 100%		2.0
ELEVATOR (40 HP)	40.0	--	NONCONTINUOUS LOAD x 100%		40.0
MISC. LOADS	5.0	--	NONCONTINUOUS LOAD x 100%		5.0
SUBTOTAL NON-CONTINUOUS LOADS					54.7
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					175.5

FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS	SERVICE LOAD
$\frac{150 \text{ KVA (X-FORMER)}}{0.208 \times \sqrt{3} \times 2\%Z}$ = 20,820 AMPS	$\frac{176 \text{ KVA}}{0.208 \times \sqrt{3}}$ = **489** AMPS



1 ELECTRICAL RISER - WAREHOUSE
SCALE: N.T.S.

ELECTRICAL ENERGY SUMMARY
ELECTRICAL SYSTEMS AND EQUIPMENT:

METHOD OF COMPLIANCE:

NC ENERGY CODE 2018: ☐ PRESCRIPTIVE ☐ PERFORMANCE
ASHRAE 90.1 2013: ☒ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF LAMPS IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
BALLAST TYPE USED IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF BALLASTS IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL WATTAGE PER FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL INTERIOR WATTAGE SPEC. VS ALLOWED	12,458 WATTS SPEC. VS 18,301 WATTS ALLOWED

☒ WHOLE BLDG ☐ SPACE BY SPACE

TOTAL EXTERIOR WATTAGE SPEC. VS ALLOWED 678 WATTS SPEC. VS. 1170 WATTS ALLOWED

ZONE: 3 ALLOWANCE: 750 WATTS

ADDITIONAL PRESCRIPTIVE COMPLIANCE

☐ 406.2 MORE EFFICIENT MECHANICAL EQUIPMENT
☒ 406.3 REDUCED LIGHTING POWER DENSITY
☐ 406.4 ENHANCED DIGITAL LIGHTING CONTROLS
☐ 406.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
☐ 406.6 ENERGY RECOVERY VENTILATION SYSTEM
☐ 406.7 HIGHER EFFICIENCY SERVICE WATER HEATING

PANELBOARD SCHEDULE - WAREHOUSE

PANEL A	SURFACE MOUNTED				SERVICE ENTRANCE RATED			500 AMP (FEEDER SIZE)			3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED				22K AIC			120/208 VOLT			BOLT ON BREAKER	
NEMA 1	COPPER BUS							600 AMP (BUS RATING)			--	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A B C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
AH-3	2#8 & 1#10G	3/4"	35			1	50 20	2	10			3/4"	2#12 & 1#12G	LIGHTS	
				35		3	20	4		–		–	–	SPARE	
HP-3	2#10 & 1#10G	3/4"			17	5	35 20	6			–	–	–	SPARE	
			17			7	20	8	–			–	–	SPARE	
HP-4	2#10 & 1#10G	3/4"		19		9	40 20	10		4		3/4"	2#12 & 1#12G	EXTERIOR LIGHTS	NOTE 3
					19	11	20	12			2	3/4"	2#12 & 1#12G	DOCK LIGHTS	
HP-5	3#8 & 1#10G	3/4"	37			13	50 20	14	10			3/4"	2#12 & 1#12G	OVHD DOOR	
				37		15	20	16		10		3/4"	2#12 & 1#12G	OVHD DOOR	
					37	17	20	18			10	3/4"	2#12 & 1#12G	OVHD DOOR	
HP-6	2#12 & 1#12G	3/4"	15			19	20 20	20	4			3/4"	2#12 & 1#12G	WATER COOLER	NOTE 1
				15		21	20	22		8		3/4"	2#12 & 1#12G	RECEPTACLES	
HP-7	2#12 & 1#12G	3/4"			16	23	20 20	24			7	3/4"	2#12 & 1#12G	RECEPTACLES	
			16			25	20	26	6			3/4"	2#12 & 1#12G	RECEPTACLES	
HP-8	2#12 & 1#12G	3/4"		16		27	20 20	28		3		3/4"	2#12 & 1#12G	RECEPTACLES	
					16	29	20	30			13	3/4"	2#12 & 1#12G	WH-3	
SPARE	–	–	–			31	20 20	32	–			–	–	SPARE	
DOCK ELEVATOR	2#12 & 1#12G	3/4"		8		33	20	34		3		3/4"	2#12 & 1#12G	WAREHOUSE RECEP	
SPARE	–	–			–	35	20	36			3	3/4"	2#12 & 1#12G	WAREHOUSE RECEP	
WH-2	2#8 & 1#10G	3/4"	29			37	40 20	38	3			3/4"	2#12 & 1#12G	MECH RM RECEP	
				29		39	20	40		2		3/4"	2#12 & 1#12G	ELEV SUMP ALARM	
ELEV SUMP PUMP	2#12 & 1#12G	3/4"			6	41	20 20	42			2	1"	2#12 & 1#12G	AOR PANEL	NOTE 2
ELEVATOR CAB	2#12 & 1#12G	3/4"	2			43	20 20	44	16			1"	2#12 & 1#12G	FIRE PRO. BFP	NOTE 2
ELEV. MACH. RM.	2#12 & 1#12G	3/4"		3		45	20	46		3		3/4"	2#12 & 1#12G	PHONEBOARD	
ELEVATOR PIT	2#12 & 1#12G	3/4"			–	47	175 200	48			3	3/4"	2#12 & 1#12G	FACP	NOTE 4
ELEVATOR	3#1/0 & 1#6G	–	120			49		50	126						
				120		51		52		140		2"	4#3/0 & 1#6G	PANEL B	
					120	53		54			91				

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE ELEVATOR BREAKER AND WIRE SIZES WITH ELEVATOR SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489
2. PROVIDE 30MA GFPE BREAKER FOR EQUIPMENT PROTECTION
3. WIRE THROUGH RELAY CONTROL PANEL
4. PROVIDE WITH LOCKING BREAKER & IDENTIFY WITH A RED MARKING PER NFPA 72-10.6.5.2 (2013).

GROSS PHASE TOTALS (AMPS) A = 320 B = 315 C = 271

PANELBOARD SCHEDULE - WAREHOUSE

PANEL B	SURFACE MOUNTED				10K AIC			200 AMP (FEEDER SIZE)			3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED							120/208 VOLT			BOLT ON BREAKER	
NEMA 1	COPPER BUS							200 AMP (BUS RATING)			--	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A B C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
AH-4	2#8 & 1#10G	3/4"	35			1	60 20	2	11			3/4"	2#12 & 1#12G	LIGHTS	NOTE 1
				35		3	20	4		10		3/4"	2#12 & 1#12G	LIGHTS	NOTE 1
AH-5	3#3 & 1#8G	3/4"			62	5	80 20	6			6	3/4"	2#12 & 1#12G	LIGHTS	
			62			7	20	8	4			3/4"	2#12 & 1#12G	LIGHTS	
				62		9	20	10		2		3/4"	2#12 & 1#12G	ELEV LIGHTS	
AH-6	2#12 & 1#12G	3/4"			1	11	15 20	12			–	–	–	SPARE	
WATERCOOLER	2#12 & 1#12G	3/4"	4			13	20 20	14	–			–	–	SPARE	
RECEPTACLES	2#12 & 1#12G	3/4"		6		15	20 20	16		–		–	–	SPARE	
RECEPTACLES	2#12 & 1#12G	3/4"			6	17	20 20	18			–	–	–	SPARE	
RECEPTACLES	2#12 & 1#12G	3/4"	5			19	20 20	20	–			–	–	SPARE	
COPIER	2#12 & 1#12G	3/4"		10		21	20 20	22		–		–	–	SPARE	
BOARD RM RECEP	2#12 & 1#12G	3/4"			3	23	20 20	24			–	–	–	SPARE	
BOARD RM RECEP	2#12 & 1#12G	3/4"	3			25	20 20	26	–			–	–	SPARE	
BOARD RM RECEP	2#12 & 1#12G	3/4"		3		27	20 20	28		–		–	–	SPARE	
OPEN OFFICE RECEP	2#12 & 1#12G	3/4"			3	29	20 20	30			–	–	–	SPARE	
OPEN OFFICE RECEP	2#12 & 1#12G	3/4"	2			31	20 20	32	–			–	–	SPARE	
MECH. RM	2#12 & 1#12G	3/4"		2		33	20 20	34		–		–	–	SPARE	
UC FRIDGE	2#12 & 1#12G	3/4"			5	35	20 20	36			–	–	–	SPARE	
SPARE	–	–	–			37	20	38	–			–	–	SPARE	
SPARE	–	–		–		39	20 30	40	10			3/4"	2#10 & 1#10G	FORK LIFT CHARGER	
SPARE	–	–			–	41	20	42		10					

1 NOTE 3

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1. WIRE THROUGH RELAY CONTROL PANEL
2. COORDINATE WITH EQUIPMENT SUBMITTAL.
3. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING	= 4.0	100%	= 4.0
RECEPTACLES (1ST 10 KVA)	= 3.7	100%	= 3.7
RECEPTACLES (ABV 10 KVA)	=	50%	=
HVAC	= 29.6	100%	= 29.6
HVAC (NON-COINCIDENTAL)	=	0%	=
DEDICATED RECP/EQUIP	= 3.7	100%	= 3.7
TOTALS:	= 41 KVA		= 41 KVA

MINIMUM PANEL SIZE: 41 KVA X 125% = 51 KVA (142 AMPS)

GROSS PHASE TOTALS (AMPS) A = 126 B = 140 C = 91

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ABC STORE NO. 4 & WAREHOUSE
BRIDGETON, CRAVEN COUNTY
CRAVEN COUNTY ABC BOARD

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Revisions			
No.	Date	Description	
1	6-8-22	ADDENDUM No. 1	

FOR CONSTRUCTION
MARCH 30, 2022

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PROJECT NO. 221024
PROJECT MGR. D. HAM

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31466 JAMES D. HAM
6/8/22

MBFA Job#: 2102

ELECTRICAL SCHEDULES
WAREHOUSE

E-302
SHEET 9 OF 10

ELECTRICAL LEGEND

SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
(J)	JUNCTION BOX	–	DOUBLE GANG UNO
(T) (S)	THERMOSTAT OR SENSOR JUNCTION BOX	–	MOUNT 48" TOD AFF UNO
	NON-FUSED DISCONNECT	–	–
	FUSED DISCONNECT	–	–
(OS)US	CEILING OCCUPANCY SENSOR	WATTSTOPPER WT-110S OR 2205	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
$OS	WALL SWITCH WITH OCCUPANCY SENSOR	WATTSTOPPER PW-100, OR EQUAL	–
$	SWITCH	HUBBELL CSB120x	–
$D	DIMMER SWITCH	–	COORDINATE WITH DRIVER
$3	3 WAY SWITCH	HUBBELL CS320xLA	–
$SC	SPEED CONTROL SWITCH	–	PROVIDED BY M.C., INSTALLED BY E.C.
$M	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED
$MS	MANUAL MOTOR STARTER (W/OVERLOADS)	SIEMENS SMF	MOUNT AS REQUIRED
	EMERGENCY LIGHT	–	–
	RECEPTACLE	HUBBELL HBL5352xLA	–
DED	DEDICATED CIRCUIT RECEPTACLE	HUBBELL HBL5352xLA	–
GFCI	GROUND FAULT RECEPTACLE	HUBBELL GF20xLA	–
WP GFCI	GROUND FAULT, WEATHERPROOF RECEPT.	HUBBELL GFTR20xLA W/"IN USE" COVER	–
	DOUBLE DUPLEX RECEPTACLE	HUBBELL (2) HBL5352xLA	–
XX-YY	XX=PANEL YY=CIRCUIT IDENTIFIER	–	–
	DATA/PHONE OUTLET	–	DOUBLE GANG UNO

NOTES:
1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C.
3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
℄	CENTERLINE OF DEVICE
BOD	BOTTOM OF DEVICE
TOD	TOP OF DEVICE

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	MULTI-VOLT INPUT	DIMMING TO 10%	STEP LEVEL DIMMING	BATTERY BACK-UP	BATTERY BACK-UP – 1400 LUMENS	ELECTRONIC BALLAST	PROGRAM START BALLAST	PULSE START	RETURN AIR CAPABILITY	DAMP LOCATION LISTED	WET LOCATION LISTED	STANDARD COLOR SELECTED BY ARCH.	CUSTOM COLOR SELECTED BY ARCH.	REMARKS
A	2x4 LED LENSED TROFFER	COLUMBIA	LJT24-35LWG-FSA12-EDU	LED	4268	35K	–	34	120	●	●												
A1	2x4 LED LENSED TROFFER (EMERGENCY)	COLUMBIA	LJT24-35LWG-FSA12-EDU-ELL14	LED	4268	35K	–	34	120	●	●		●										
B	2x4 LED LENSED TROFFER	COLUMBIA	LJT24-35MLG-FSA12-EDU	LED	4718	35K	–	38	120	●	●												
B1	2x4 LED LENSED TROFFER (EMERGENCY)	COLUMBIA	LJT24-35MLG-FSA12-EDU-ELL14	LED	4718	35K	–	38	120	●	●		●										
C	RECESSED DOWNLIGHT	INTENSE	SS6G3DR L1 35B 1C630C SFW	LED	1000	35K	80	13.5	120	●	●												
D	4' LED STRIPLIGHT	COLUMBIA	CSL4-4040	LED	4517	40K	80	40.2	120	●	●												
D1	4' LED STRIPLIGHT (EMERGENCY)	COLUMBIA	CSL4-4040	LED	4517	40K	80	40.2	120	●	●		●										
F	LINEAR PENDANT LIGHTING	FINELITE	HP-4 ID-S-B-840-TG-BG-120-FA-SC	LED	3618	35K	–	32.8	120	●	●												
F1	LINEAR PENDANT LIGHTING (EMERGENCY)	FINELITE	HP-4 ID-S-B-840-TG-BG-120-FA-SC	LED	3618	35K	–	32.8	120	●	●		●										BATTERY BODINE BSL 722
G	COUNTER PENDANT FIXTURE	WAC LIGHTING	PD-26616-SN	LED	1796	35K	–	20	120	●	●												
G2	VESTIBULE PENDANT FIXTURE	WILLIAMS	RNDP 3 L67/840 FXA EM DIM 120	LED	6700	40K	80	75	120	●	●									●			LENGTH OF PENDANT SELECTED BY ARCH
H	TRACK LIGHTING	WAC LIGHTING	L-1023F-840	LED	1955	40K	–	22	120	●	●									●			
J	HIGH BAY LIGHTING	COLUMBIA	CLB2-40MVW-EDU-LHVQM5	LED	26,364	40K	–	191	120	●	●												
J1	HIGH BAY LIGHTING (EMERGENCY)	COLUMBIA	CLB2-40MVW-EDU-ELL15-LHVQM5	LED	26,364	40K	–	191	120	●	●		●										
K1	STAIR LIGHT (EMERGENCY)	COLUMBIA	W3B4-40LW-SFA-EDU-ELL14	LED	4318	40K	–	40	120	●	●												
L	WALL BRACKET	COLUMBIA	W3B3-40LW-SFA-EDU	LED	3,146	40K	–	23	120	●	●												
M	2x2 LED LENSED TROFFER	COLUMBIA	LJT22-35HLG-FSA12-EDU	LED	3684	35K	–	33	120	●	●												
N	ELEVATOR LIGHT	COLUMBIA	LJT22-35HLG-FSA12-EDU	LED	3684	35K	–	33	120	●													
EXIT	EXIT LIGHT	EMERGI-LITE	TA PE RM	LED	–	–	–	4	120				●										
	EXTERIOR LIGHTING																						
XA	EXTERIOR WALL PACK	HUBBELL	TRP1-12L-15-4K7-4-U	LED	1550	40K	–	14	120	●										●	●		
XA1	EXTERIOR WALL PACK (EMERGENCY)	HUBBELL	TRP1-12L-15-4K7-4-U-E	LED	1550	40K	–	14	120	●			●							●	●		
XB1	RECESSED DOWNLIGHT (EMERGENCY)	INTENSE	SS6G3DR L1 35B EM7 1C630C SFW	LED	1000	40K	80	13.5	120	●	●									●			
XC	LED AREA LIGHT ON 20' POLE	HUBBELL	ASL-A-8L4K210-4-U-7PR2-PTL-8	LED	4612	40K	–	59	120	●										●	●		SQUARE STEEL POLE
XD	LED AREA LIGHT ON 30' POLE	HUBBELL	ASL-A-24L4K210-3-U	LED	16364	40K	–	181	120	●										●	●		SQUARE STEEL POLE
XE	ARCHITECTURAL UP LIGHTING	VISTA	1043-NS-40-F-MV-TE-CS	LED	1212	40K	–	19.5	120	●	●									●	●		PROVIDE WITH DIMMER ON DOWNSTREAM SIDE OF TIMECLOCK
XF	LOW PROFILE SURFACE MOUNT	KENALL	MR13FL PP 20L40K DV	LED	1682	40K	–	24	120	●										●	●		
XG	8' ENCLOSED GASKETD	KENALL	LXEM4-40-ML4-RA-ED-U-ELL14	LED	19,000	40K	–	107	120	●													
XH	FLAG POLE LIGHTS	HYDREL	M9410C LED P2 MVOLT NSP FLCSR	LED	1780	40K	–	20	120	●													

NOTES:
1. PROVIDE EXIT LIGHTS WITH SINGLE OR DOUBLE-FACE AS REQUIRED, CHEVRON DIRECTIONAL INDICATORS, MOUNTING BRACKETS AND NICKEL CADMIUM BATTERY BACKUP.
2. BATTERIES INSTALLED OUTDOORS SHALL BE RATED -4°F TO 130°F.
3. UNIT EQUIPMENT SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).

ELECTRICAL NOTES:

1. ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. THIS INCLUDES ALL REQUIRED CONTROL WIRING OR WIRING CALLED FOR BY THE MANUFACTURER. INSTALLATION SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
3. ALL WORK SHALL COMPLY WITH THE 2020NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS. COORDINATE LOCATION AND WIRING OF DEVICES WITH OTHER TRADES OR SUPPLIERS OF EQUIPMENT SUCH AS: ELEVATOR, FIRE PUMP AND FIRE PROTECTION PLANS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FIELD WIRING OF SPECIALTY ITEMS UNLESS NOTED OTHERWISE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C.. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.
7. ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
8. PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310.15(B)(16) 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110.14(C). OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. #10 AWG SHALL BE USED FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 100 FEET. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120 VOLT CIRCUIT EXCEEDS 100 FEET, THE CONDUCTOR TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10 AWG.
9. COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

208/120V	PHASE A	BLACK
	PHASE B	RED
	PHASE C	BLUE
	NEUTRAL	WHITE
	EQ. GROUND	GREEN

10. PROVIDE LABELS ON ALL RECEPTACLES IDENTIFYING PANEL AND CIRCUIT NUMBER. LABELS SHALL BE BRADY CLEAR POLYESTER 1"W X 0.375"H OR PANDUIT EQUAL, WITH BLACK LETTERING. MARK ALL JUNCTION BOXES ABOVE CEILING WITH PANEL AND CIRCUIT NUMBER USING PERMANENT MARKER.
11. PROVIDE MINIMUM 3/4" CONDUIT FOR ALL WIRING. FLEXIBLE METAL CONDUIT WITH A MAXIMUM LENGTH OF 6' MAY BE USED FOR THE CONNECTION OF LIGHT FIXTURES TO JUNCTION BOXES. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, EXTERIOR LOCATIONS, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON EMT CONDUIT SHALL BE COMPRESSION TYPE. FITTINGS ON IMC OR RGS SHALL BE THREADED. MOTOR CONNECTIONS SHALL BE MADE WITH FMC, MIN. 18" LONG AND MAX 36". USE PVC JACKETED FLEXIBLE LIQUID TIGHT CONDUIT TYPE UA FOR CONNECTIONS IN WET LOCATIONS. PROVIDE COOPER "DURA-BLOCK" SUPPORTS FOR CONDUITS INSTALLED OUTDOORS AND ROUTED ACROSS ROOF OR CONCRETE. SEAL SERVICE RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND SYSTEM PER NEC 230.8 AND 300.5(G). EMT CONDUIT PROVIDED BELOW ROOF DECK SHALL BE INSTALLED 1-1/2 INCHES AWAY FROM THE DECK TO AVOID SCREWS PENETRATING THE EMT CONDUIT DURING RE-ROOFING. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL STRING.
12. PROVIDE ONE-INCH CONDUITS EXTENDING TO ABOVE CORRIDOR CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. ALL CABLING IS PROVIDED BY OTHERS.
13. PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.
14. PANELBOARDS FOR SERVICE ENTRANCE SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEMA 3R PANELBOARDS WHERE LOCATED OUTSIDE. PROVIDE COPPER NEUTRAL AND GROUNDING BARS IN ALL PANELBOARDS UNLESS NOTED OTHERWISE (ALUMINUM IS NOT ALLOWED). GROUND ALL SERVICE ENTRANCE PANELS AND RACEWAYS (BONDING BUSHINGS) IN ACCORDANCE WITH THE NEC. PROVIDE BOLT-IN BREAKERS UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM OF THREE SPARE 3/4" CONDUITS TO ABOVE CEILING FOR ALL FLUSH MOUNTED PANELBOARDS. PANELS SHALL BE FULLY RATED FOR SHORT CIRCUIT CURRENT, SERIES RATINGS ARE NOT ALLOWED. IF PANEL FEEDER SUPPLY LOCATION IS NOT EVIDENT, PROVIDE LABEL ON PANEL STATING, "POWER SUPPLY FOR PANEL "XX" ORIGINATES AT "XX"." PANEL TRIMS SHALL BE HINGED OR DOOR-IN-DOOR TO ALLOW ACCESS TO WIRING WITHOUT REMOVING TRIM.
15. PROVIDE MACHINE TYPED PANEL SCHEDULES IN EACH PANEL INDICATING THE SPECIFIC LOAD DESCRIPTION FOR EACH BREAKER PER NEC 408.4 (GENERAL DESCRIPTIONS SUCH AS "RECEPTACLE" ARE NOT ALLOWED. INDICATE ROOM NUMBERS FOR EACH LOAD.) LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE, CURRENT RATING AND PHASE. PROVIDE ALL PANELBOARDS, CONTROL PANELS, ETC. WITH WARNING SIGN FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16.
16. GROUND RODS SHALL BE COPPER CLAD STEEL, DIAMETER OF 3/4" x 10' LENGTH MINIMUM. SPACE RODS SUCH THAT THERE IS A MINIMUM OF 10 FEET SPACING BETWEEN RODS. DRIVE RODS 6 INCHES BELOW GRADE. CONNECTIONS TO RODS SHALL BE BY EXOTHERMIC WELDS OR COMPRESSION CONNECTORS. GROUNDING TO BUILDING STEEL FOR SERVICE CONNECTION AND ANY SEPARATELY DERIVED SYSTEM SHALL BE BY EXOTHERMIC WELD. LABEL THE GROUND CONDUCTORS OR RACEWAYS AT THE MAIN SYSTEM GROUND BUS TO INDICATE LOCATION OR ELECTRODE TYPE; E.G. "GROUND RODS" OR "BUILDING STEEL".
17. PROVIDE HEAVY DUTY FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. LABEL DISCONNECT WITH PHENOLIC LABEL INDICATING PANEL AND CIRCUIT NUMBER FEEDING EQUIPMENT.
18. PROVIDE NEMA HORSEPOWER RATED STARTERS AND DISCONNECTS WHEN CONNECTED TO MOTORS. STARTERS SHALL BE PROVIDED WITH OVERLOAD SIZED TO MATCH MOTOR RATINGS. PROVIDE WITH ENCLOSURE RATED FOR THE INSTALLED ENVIRONMENT WITH PADLOCK GUARD FOR LOCKING IN THE "OFF" OR "STOP" POSITION.
19. PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM WITH #12 WIRE. SECURE FIXTURES TO CEILING FRAMING MEMBER BY MECHANICAL MEANS PER NEC 410.36. LIGHTING CIRCUITS SHALL NOT SHARE NEUTRALS. LED FIXTURES SHALL CONTAIN COMPONENTS THAT ARE MODULAR IN DESIGN AND EASILY REPLACEABLE/UPGRADABLE. COORDINATE LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS.
20. FIXTURE WHIPS TO DIMMABLE LED DRIVERS SHALL BE A MAXIMUM OF 6-FEET LONG, PRE-MANUFACTURED WITH CONTROL WIRING INTERNAL TO THE FMC MEETING BOTH UL AND NEC REQUIREMENTS. THE CONTROL WIRING SHALL MEET NEC SECTION 300.3(C)(1) AND 725.136. CLASS 2 OR 3 CIRCUITS SHALL BE 16/2 PVC JACKETED WITH GRAY AND PURPLE STRANDED CONDUCTORS.
21. PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. PER NFPA 101 SECTION 7.10.1.9, EXIT SIGNS SHALL BE LOCATED AT A VERTICAL DISTANCE OF NOT MORE THAN 6 FT 8 IN. ABOVE THE TOP EDGE OF THE EGRESS OPENING AND A HORIZONTAL DISTANCE OF NOT MORE THAN THE REQUIRED WIDTH OF THE EGRESS OPENING. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. EMERGENCY UNIT EQUIPMENT AND BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
22. OCCUPANCY SENSORS IN RESTROOMS, CORRIDORS AND OPEN OFFICE AREAS SHALL BE ULTRASONIC ONLY. VERIFY ALL COVERAGE AREAS OF SENSORS AS THEY VARY GREATLY BETWEEN MANUFACTURERS. NO SENSOR SHALL BE INSTALLED MORE THAN 12 FEET A.F.F., UNLESS NOTED OTHERWISE OR ALLOWED BY MANUFACTURER'S RECOMMENDATIONS.
23. RECEPTACLES SHALL BE 20 AMP, 120V UNLESS NOTED OTHERWISE.
24. RECEPTACLES WITHIN 6 FT. OF THE EDGE OF SINKS & LAVATORIES SHALL BE GROUND FAULT CIRCUIT-INTERRUPTING. ALL KITCHEN RECEPTACLES, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWERS, GARAGES, SERVICE BAYS AND THOSE RECEPTACLES FEEDING VENDING MACHINES AND WATER COOLERS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION.
25. RECEPTACLES INSTALLED OUTSIDE OR IN WET LOCATIONS SHALL BE LISTED AS WEATHER-RESISTANT TYPE AND HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION. PROVIDE WITH "IN USE", CAST ALUMINUM WEATHERPROOF COVERS IDENTIFIED AS "EXTRA DUTY" PER NEC 406.9(B).
26. WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
27. PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.
28. PER NEC 620.37, WIRING AND RACEWAYS USED DIRECTLY IN CONNECTION WITH THE ELEVATOR SHALL BE PERMITTED INSIDE THE HOISTWAY, MACHINE ROOM, MACHINE SPACES AND CONTROL SPACES. PER NFPA 101 SECTION 7.1.3.2.1(10), PENETRATIONS INTO, AND OPENING THROUGH, AN EXIT ENCLOSURE ASSEMBLY SHALL BE LIMITED TO THE ONLY ELECTRICAL CONDUIT SERVICE THE EXIT ENCLOSURE SUCH AS THE FOLLOWING: SECURITY SYSTEMS, PA SYSTEMS, EMERGENCY COMM SYSTEMS, LIGHTING AND POWER TO HVAC EQUIPMENT IN THE STAIRWAY OR EXIT.
29. FIRE ALARM PANEL BREAKER: PER NFPA 72 – 10.5.5.2.1, THE LOCATION OF THE DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED ON THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE SUCH AS "FIRE ALARM CIRCUIT" OR "EMERGENCY COMMUNICATIONS" PER 10.5.5.2.2. THE DISCONNECT SHALL HAVE A RED MARKING AND PROVIDED WITH A LISTED BREAKER LOCKING DEVICE PER 10.5.5.2.3. MARKING SHALL NOT OBSCURE MANUFACTURES MARKINGS.
30. ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
31. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

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Revisions

No.	Date	Description
1	6-8-22	ADDENDUM No. 1

FOR CONSTRUCTION
MARCH 30, 2022

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ELECTRICAL SCHEDULES & NOTES

E-401
SHEET 10 OF 10