



02 February, 2024

Pine Knoll Shores
Public Services Building

Addendum 1

The following addendum supersedes previous information and does hereby become part of the contract documents:

- See BD-1 for hoist location and bollard locations which are to be included in base bid. 2,000 pound hoist to be specified in Addendum 2.
- Clarification: L.P. gas tank to be provided by Owner as shown on M-2. Piping from tank to building to be by G.C. For the purpose of bidding, assume L.P. tank to be a maximum 50 feet from the building.
- See attached specification section 08360 overhead door which was inadvertently left out of the original specifications.
- Clarification: G-2, Knox box requirements will be as per Town of Pine Knoll Shores Fire Department. Building Address shall be minimum 6" vinyl numbers.
- Clarification: Air compressor, work bench and welder to be provided by Owner.
- Clarification: Design loads for building are shown on SK1.1. Soil seismic Soil Class to be "D". Roof collateral load to be 10 psf (except for hoist beam location, provide for 2,000 pound hoist as shown on BD-1). Wind speed 144mph. All other requirements shall be by PEMB engineers. Diagonal bracing can be installed where it does not interfere with door openings. Portal frames can be used where they do not interfere with doors. The minimum height under the steel frame is 14'-0" A.F.F.
- Local power utility company will bring electrical service to the meter. G.C. will assist with coordination.
- Clarification: Gas unit heaters can be vented out of the wall in lieu of roof at Contractors option.
- Clarification: Buy American is encouraged, but not required.
- See attached revised E-2 for Generator to be included in base bid. Also see revised E-2 for battery charger circuit and hoist circuit.
- Depress concrete slab ½" at all overhead door locations.
- Concrete stoop shown at door 100H to be 8" thick with #4 ϕ at 12" on center each way. Provide 1'-4"x1'-4" thickened edges with (2) #4 cont.

Lee D. Dixon, Jr., AIA
Architect/Owner
252-241-1868

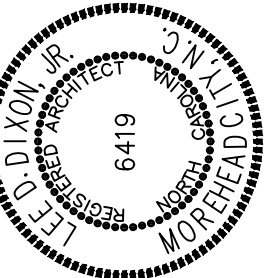
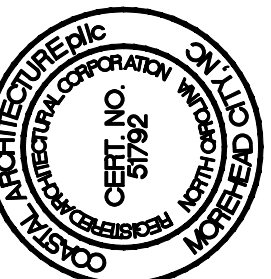
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- Clarification: Field paint is required on main frames and secondary framing as per 133419.
- Drawing, Site Drainage Plan: Driveway to be pervious interlocking pavers in lieu of pervious gravel driveway. (All pervious pavers to be Aqualine 4 ½" x 9" x 3 1/8" in running bond. See attached BD-2 and Aqualine cut sheet)
- Drawing, SK1.1: Revise building slab from 4" to 8" thick with #4 ϕ at 12" on center each way.
- Clarification: No roof curbs are planned.
- Clarification: There are no water lines in the building planned.
- Liquidated damages shall be established at \$200 per day for each calendar day beyond the contracted time.
- Existing Conditions and Demolition Plan: Spigots shown to be relocated are to be removed and capped off. Light pole shown to be relocated is to be removed.

End of Addendum 1

PINE KNOLL SHORES
PUBLIC SERVICES BUILDING
PINE KNOLL SHORES, NORTH CAROLINA



FLOOR PLAN

23019

ISSUED: 02/02/24

DWG BY: MSG

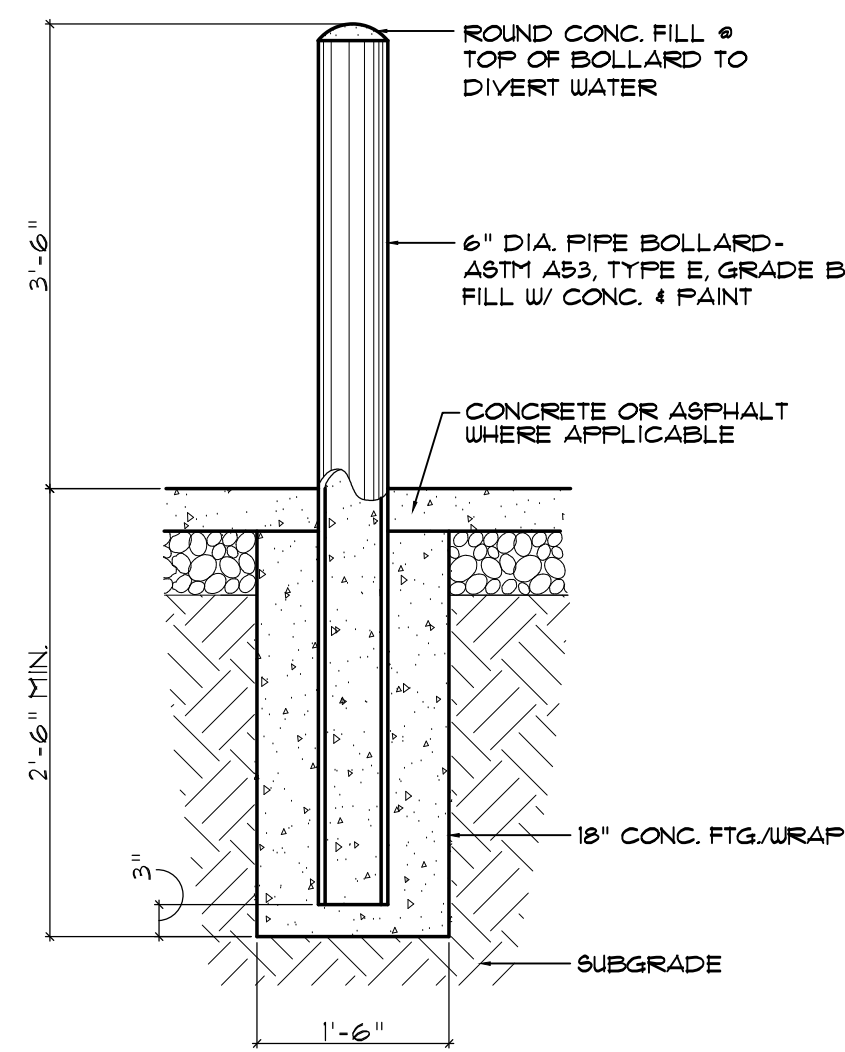
CKD BY: LDD

REVISIONS

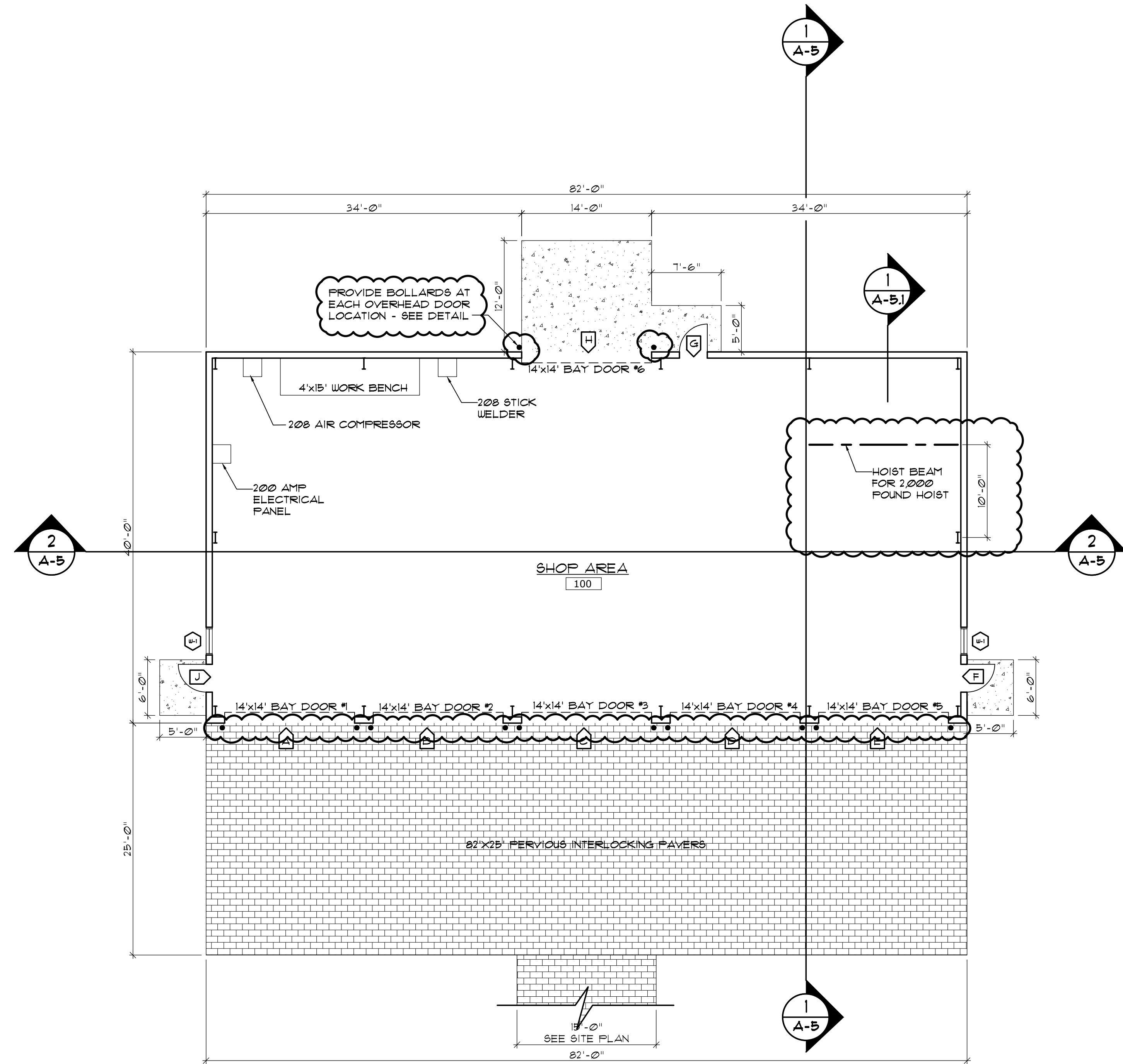
SHEET NO.

BD-1

OF

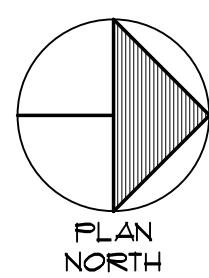


2 BOLLARD DETAIL
BD-1 SCALE: 3/4" = 1'-0"

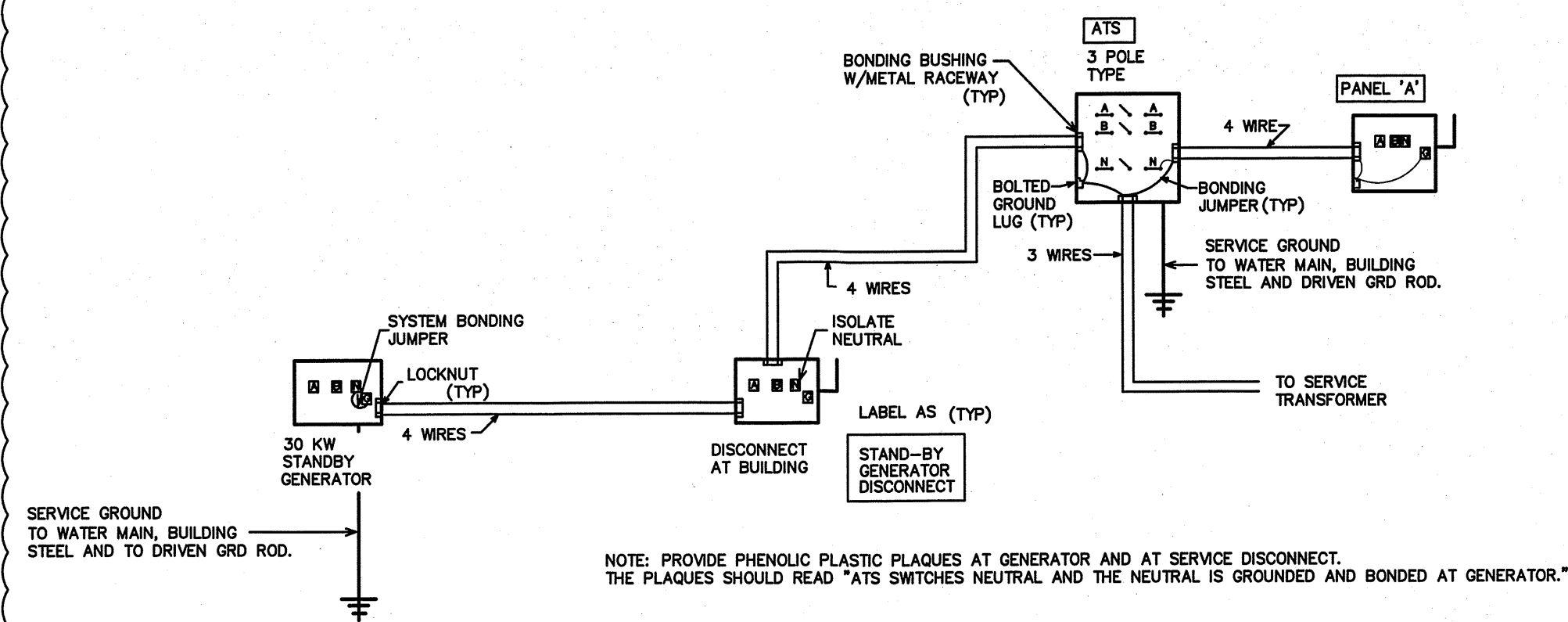


1 FLOOR PLAN
BD-1 SCALE: 1/8" = 1'-0"

PROJECT SIGN - SEE G-1



△



1 SINGLE PHASE GENERATOR GROUNDING/BONDING
SCALE: NOT TO SCALE

STANDBY GENERATOR SCHEDULE

30 KW DIESEL FUELED STANDBY GENERATOR

PROVIDE A "GENERAC" MODEL RD030 STANDBY GENERATOR WITH (1) AUTOMATIC TRANSFER SWITCH. THE GENERATOR SHALL BE CAPABLE OF RUNNING ON DIESEL FUEL WITH A 48 HOUR MIN RUN CAPACITY. PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE ENGINE SHALL HAVE AN ENCLOSED MUFFLER. THE DELIVERY VOLTAGE SHALL BE 120/240 VOLT, 1 PHASE. PROVIDE 10A DUAL RATE BATTERY CHARGER, AUTOMATIC VOLTAGE REGULATOR, AUTOMATIC LOW OIL PRESSURE AND HIGH TEMPERATURE SHUTDOWN. THE AUTOMATIC TRANSFER SWITCH SHALL TRANSFER FROM THE UTILITY AUTOMATICALLY WITH-IN 10 SECONDS. PROVIDE A SERVICE RATED DISCONNECTING MEANS WITH OVERCURRENT PROTECTION AT THE GENERATOR LOCATION. PROPERLY GROUND THE GENERATOR AND SERVICE EQUIPMENT PER THE NEC. PROVIDE INITIAL START UP AND OWNER TRAINING. THE DIESEL FUEL TANK SHALL BE SIZED TO ALLOW A MINIMUM 48 HOUR RUN TIME. PROVIDE A DIGITAL CONTROL PANEL, UNIT VIBRATION ISOLATION, AND A LEVEL 1 ACOUSTIC WEATHER PROTECTIVE ENCLOSURE. PROVIDE A LOAD TEST, START-UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.

PROVIDE AN ADJUSTABLE 7-DAY/24-HOUR EXERCISE TIMER. PROVIDE A FULL TANK OF FUEL AT COMPLETION OF ALL REQUIRED TESTS. INSTALL PER NFPA 110 & NFPA 111 FOR THIS APPLICATION.

* OR APPROVED EQUAL

NEW PANEL 'A'

OR APPROVED EQUAL				MINIMUM AIC: 22,000A				SERVICE ENTRY RATED				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
LOAD SERVICE		CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR	LOAD SERVICE						
LIGHTS		20A	625	1	2	2	540	20A	REC- SHOP						
AIR COMPRESSOR		50A	3500	3	4	4	360	20A	REC- SHOP						
			3500	5	6	6	360	20A	REC- SHOP						
STICK WELDER		30A	2500	7	8	8	360	20A	REC- SHOP						
			2500	9	10	10	720	20A	REC- SHOP						
HEATERS		20A	720	11	12	12	360	20A	REC- WORKBENCH						
STICK WELDER ALTERNATE		50A	3500	13	14	14	360	20A	REC- WORKBENCH						
			3500	15	16	16	360	20A	REC- EXTERIOR						
EF-1; EF-2		20A	1152	17	18	18	180	20A	REC- EXTERIOR						
INTAKE LOUVER		20A	100	19	20	20	1152	20A	HOIST BEAM						
BATTERY CHARGER		20A	500	21	22	22		20A	SPARE						
SPARE		20A		23	24	24		20A	SPARE						
SPARE		20A		25	26	26		20A	SPARE						
SPARE		20A		27	28	28		20A	SPARE						
SPARE		20A		29	30	30		20A	SPARE						
SPACE				31	32	32			SPACE						
SPACE				33	34	34			SPACE						
SPACE				35	36	36			SPACE						
SPACE				37	38	38			SPACE						
SPACE				39	40	40			SPACE						
SPACE				41	42	42			SPACE						
NOTES		SUB-TOTALS 'B'		11777	10320	200A	BUS	2160	2592	SUB-TOTALS 'A'		TOTAL CONNECTED LOAD			
						200A	LUGS	11777	10320	SUB-TOTALS 'B'					
						200A	FEED	13937	12912	GRAND TOTAL					
						200A	VERIFY SIZE	116A	108A	AMPS/PHASE					
NEC ALLOWABLE DEMAND FACTORS				DIVERSIFIED LOAD SUMMARY											
① DEMAND FACTORS PER NEC 220				LOAD TYPE				DEMAND FACTOR		A		B		TOTAL DIVERSIFIED LOAD	
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD				GENERAL LIGHTING				③	125%	781				781	
③ NEC TABLE 220.56				TRACK LIGHTING					125%						
④ NEC 220.51				GENERAL USE RECEPTACLES				④	100%/DIVISION	2160		1440		3600	
⑤ NEC 220.43A, 200 VA/LINEAR FT				MOTORS AND EQUIPMENT				LARGEST	125%	4375		4375		8750	
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED				WATER HEATERS				ALL OTHERS	100%	7852		7952		15604	
				KITCHEN EQUIPMENT				⑤	100%						
				FIX. ELEC. SPACE HEAT.				⑥	100%						
				SHOW WINDOW LIGHTS				⑦	125%						
				SIGN					125%						
				MISC					100%						
				PHASE (TOTAL VA)					14968	13767					
				TOTAL AMPS					125A	115A					
												VOLTS AMPS = 120A		TOTAL AMPS	

(ATS) AUTOMATIC TRANSFER SWITCH SCHEDULE

ATS-1 * ASCO MODEL# D01AUSA20200F40M, AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION. 200 AMP, 120/240 VOLT, 1 PHASE WITH NEMA 3R ENCLOSURE. PROVIDE GFI PROTECTION. SERVICE ENTRY RATED

* OR APPROVED EQUAL

PKS - Public Service Bldg. E2

EQUIPMENT WIRING SCHEDULE

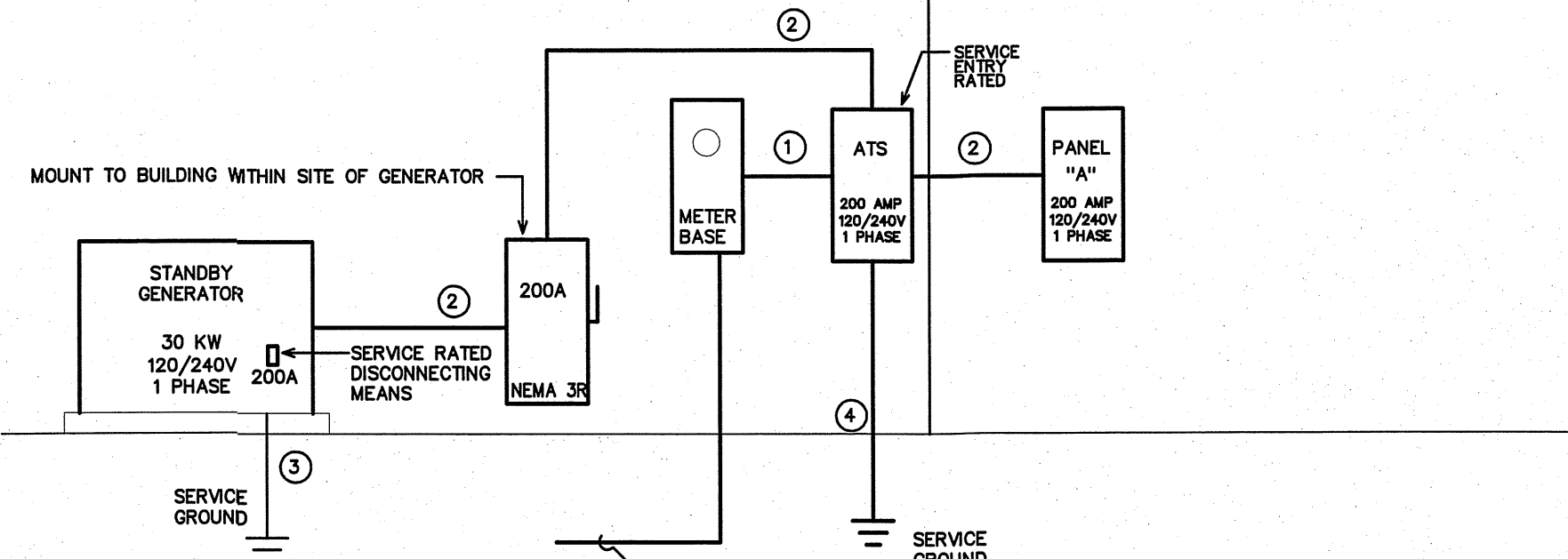
EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
AIR COMPRESSOR	—	50A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT
STICK WELDER	—	50A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT
STICK WELDER	—	30A	240V	1	3-#10, 1-#10 GND IN 3/4" CONDUIT

NOTE: THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.

RISER WIRING SCHEDULE

- 200A: 3-#3/0 IN 2" CONDUIT
- 200A: 3-#3/0, 1-#6 CU GND, IN 2" CONDUIT
- #4 CU GND TO 10' X 5/8" DRIVEN GROUND ROD
- #4 CU GND TO BUILDING STEEL, FOUNDATION STEEL, AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

NOTE: UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT. SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.



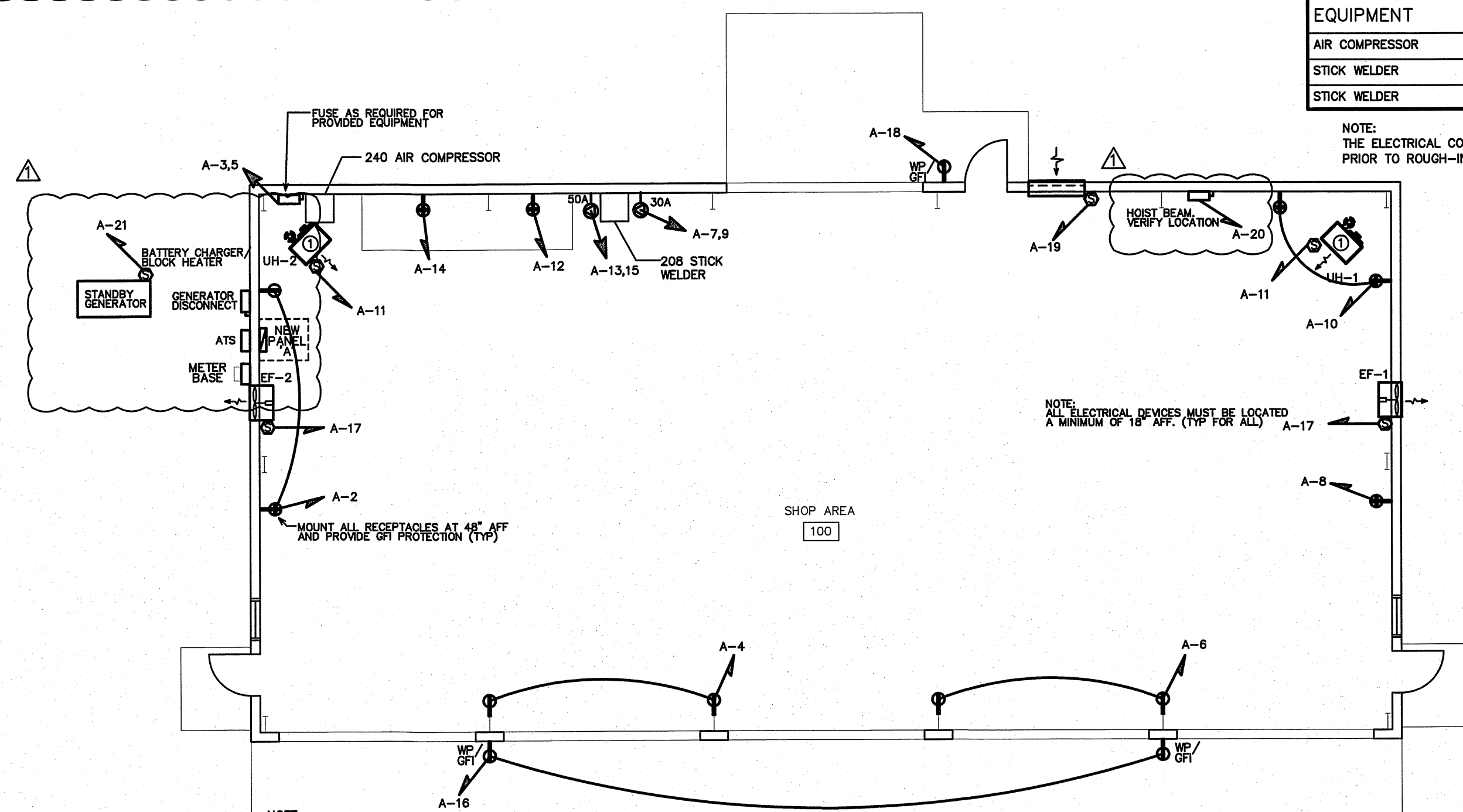
3 ELECTRICAL SERVICE RISER
SCALE: NTS

LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS	NO. TYPE	W	BALLAST	W/ FIXTURE	REMARKS
A	COLUMBIA	MPS4-40HL-CW-EDU-MPSW04	120	LED	---	---	---	45	4' LINEAR LED STRIP (W/ WIRE GUARD)
B	EXO	PRL-R-LS	120	LED	---	---	---	35	EXTERIOR LED WALL PACK
E	COMPASS	CUSO	120	LED	---	---	---	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE- COLOR BY ARCH
EXT	COMPASS	CCR	120	LED	---	---	---	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT
INT	COMPASS	CU2	120	LED	---	---	---	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

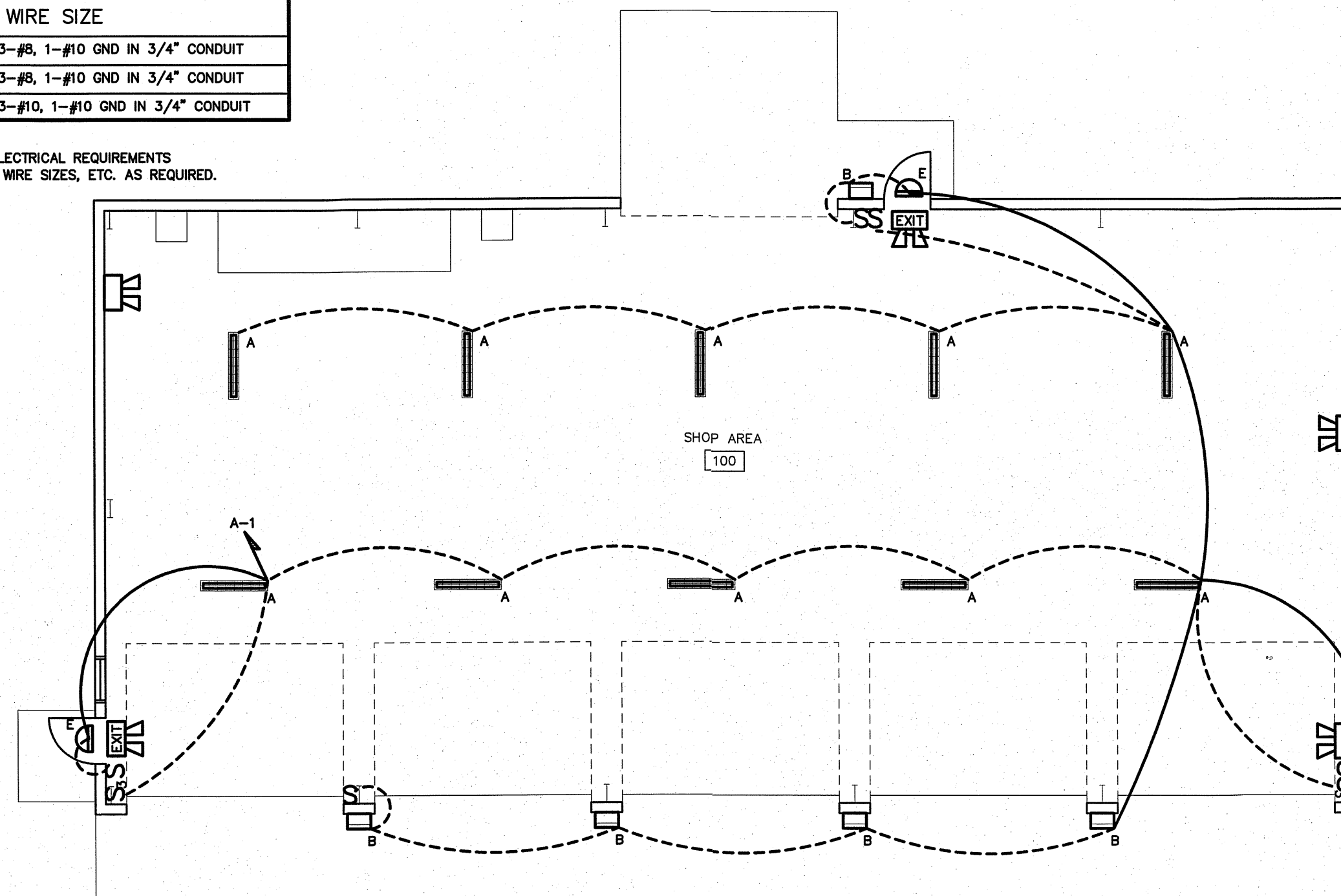
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.



NOTE: PROVIDE LABELING ON EACH RECEPTACLE NOTING CIRCUIT SERVED.

VERIFY HEIGHT/LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.

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



NOTE: PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

PROVIDE SWITCHED & UN-SWITCHED POWER FROM SAME CIRCUIT FOR ALL TYPE "E" FIXTURES. (TYP)

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

ENGINEER

BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0826
email: ben@bdg-nc.com
Corp. License # C-2652

Coastal
Architecture
P.A.C.

Architectural
Design
Planning
Interiors



Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA

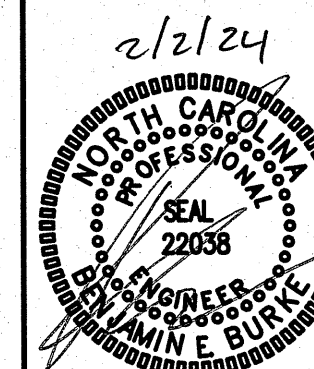
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Morehead City, NC 28557

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PINE KNOLL SHORES
PUBLIC SERVICES BUILDING
PINE KNOLL SHORES, NORTH CAROLINA



FLOORPLANS AND
PANEL/RISER

23019

ISSUED: 10/18/2023

DWG BY: JO

CKD BY: BEB

REVISIONS

2/2/24 GENERATOR REV.

SHEET NO.

E-2

SECTION 08 36 00
SECTIONAL OVERHEAD DOORS
591 SERIES THERMACORE® INSULATED STEEL DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Insulated Sectional Overhead Doors.
- B. Operating Hardware, tracks, and support.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: Prepared opening in concrete. Execution requirements for placement of anchors in concrete wall construction.
- B. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.
- C. Section 08710 - Door Hardware: Cylinder locks.

1.3 REFERENCES

- A. ANSI/DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Wind Loads: Design and size components to withstand loads caused by pressure and suction of wind acting normal to plane of wall as calculated in accordance with applicable code.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

E. Operation and Maintenance Data.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.

C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened labeled packaging until ready for installation.

B. Protect materials from exposure to moisture until ready for installation.

C. Store materials in a dry, ventilated weathertight location.

1.8 PROJECT CONDITIONS

A. Pre-Installation Conference: Convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.9 WARRANTY

A. Warranty: Manufacturer's limited door and operators System warranty for 10 year against delamination of polyurethane foam from steel face and all other components for 3 years or 20,000 cycles, whichever comes first.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: sales@overheaddoor.com.

B. Substitutions: Submit equal products for review.

C. Requests for substitutions will be considered in accordance with provisions of Section 01340.

2.2 INSULATED SECTIONAL OVERHEAD DOORS

A. Insulated Steel Sectional Overhead Doors: 591 Series Thermacore Insulated Steel Doors by Overhead Door Corporation. Units shall have the following characteristics:

1. Door Assembly: Metal/foam/metal sandwich panel construction, with PVC thermal break and weather-tight ship-lap design meeting joints.

a. Panel Thickness: 1-5/8 inches (41 mm).

b. Exterior Surface: Ribbed, textured.

c. Exterior Steel: .015 inch (.38 mm), hot-dipped galvanized.

d. End Stiles: 16 gauge.

e. Spring Counterbalance: Sized to weight of the door, with a helically wound, oil tempered torsion spring mounted on a steel shaft; cable drum of diecast aluminum with high strength galvanized aircraft cable. Sized with a minimum 7 to 1 safety factor.

1) Standard cycle spring: 10,000 cycles.

f. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.

g. Thermal Values: R-value of 14.86; U-value of 0.067.

h. Air Infiltration: 0.08 cfm at 15 mph; 0.08 cfm at 25 mph.

i. Chain Hoist

j. High-Usage Package: Provide with optional high-usage package.

2. Finish and Color:

a. Two coat baked-on polyester:

1) Interior color, white.

2) Exterior color, white.

b. Baked-on Kynar polyvinylidene fluoride high performance coating:

1) Exterior color, white.

3. Wind load Design: Provide to meet the Design/Performance requirements required.

4. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.

5. Lock:

- a. Interior mounted slide lock.
- b. Keyed lock.
- c. Locking mechanism designed to maintain security for exterior while permitting break out when impacted from the inside.

6. Weatherstripping:

- a. EPDM bulb-type strip at bottom section.
- b. Flexible Jamb seals.
- c. Flexible Header seal.

7. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until openings have been properly prepared.
- B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.
- B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- C. Anchor assembly to wall construction and building framing without distortion or stress.
- D. Securely brace door tracks suspended from structure. Secure tracks to structural members only.

E. Fit and align door assembly including hardware.

3.4 CLEANING AND ADJUSTING

A. Adjust door assembly to smooth operation and in full contact with weatherstripping.

B. Clean doors, frames and glass.

C. Remove temporary labels and visible markings.

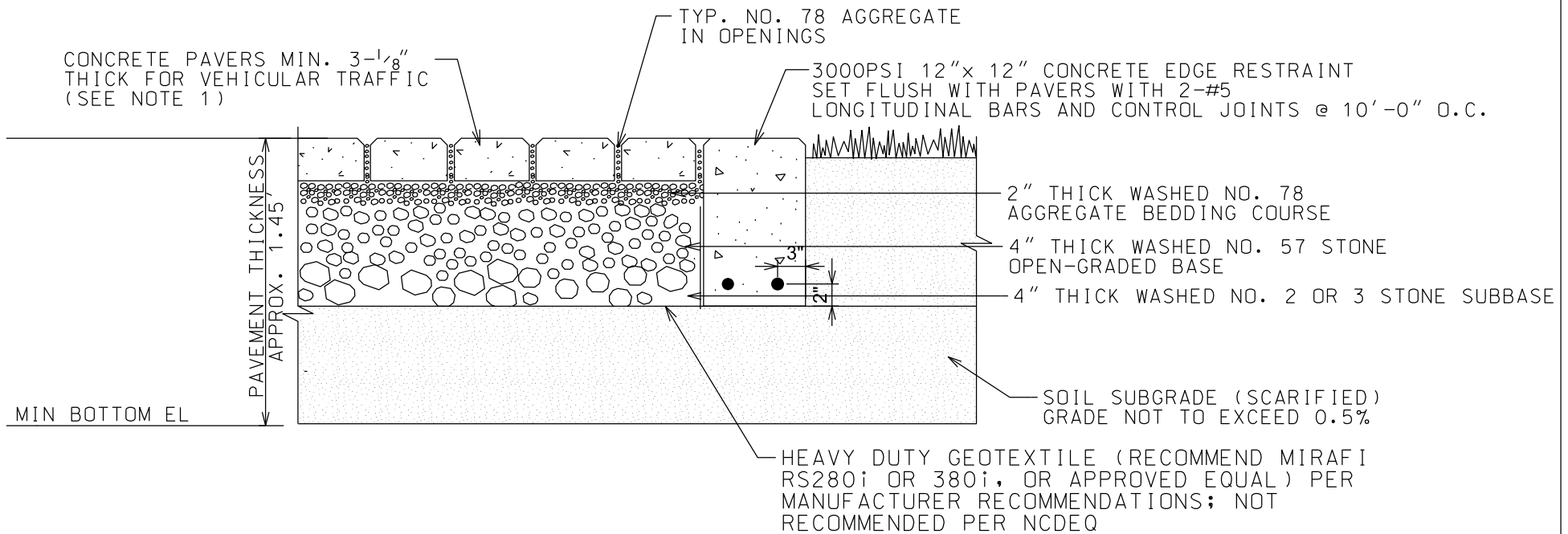
3.5 PROTECTION

A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

B. Protect installed products until completion of project.

C. Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

END OF SECTION



NOTES:

1. PICP SHALL BE INSTALLED BY EXPERIENCED ICPI CONTRACTORS WITH PICP CONSTRUCTION, INSPECTION AND DETAILING SKILLS.
2. PERMEABLE PAVEMENT AREAS SHALL EXCAVATE 1 FOOT OF EXISTING SOILS AND BACKFILL WITH CLEAN FINE TO MEDIUM SAND MATERIAL.

SCALE: NOT TO SCALE

BD-2

PERMEABLE INTERLOCKING CONCRETE PAVERS

AQUALINE™

PERMEABLE PAVER

LOW MAINTENANCE AND PROVEN DURABILITY
IN A CONTEMPORARY 3-PIECE SYSTEM





AQUALINE™

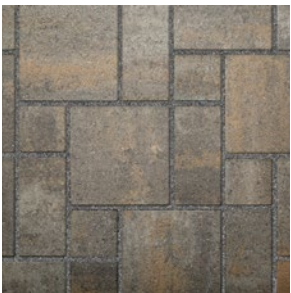
PERMEABLE PAVER

LOW MAINTENANCE AND PROVEN DURABILITY IN A CONTEMPORARY 3-PIECE SYSTEM

☑ FEATURES & BENEFITS

- Interlocking spacer bars for increased structural performance
- Smooth surface with a micro-chamfer to minimize vibration and enhance wheelchair comfort
- Can be utilized to construct an ADA-compliant pavement
- True installed dimensions for design optimization
- Optimal joint openings for infiltration and maintenance
- Can eliminate stormwater runoff and improve water quality
- Meets the requirements of ASTM C936
- Chamfer Width: 3 mm
- Spacer Bar Width: 10 mm
- Surface Infiltration Rate: > 500 inches per hour (varies based on joint infill gradation)
- Surface Open Area: 12%
- Can be installed mechanically

🔥 AVAILABLE COLORS **COLOR SELECTED BY OWNER**



ARENNES




HATTERAS




SAVANNAH

🧩 SHAPES & SIZES


3-PIECE AQUALINE

 4 1/2 x 4 1/2 x 3 1/8

 4 1/2 x 9 x 3 1/8

 9 x 9 x 3 1/8

4 1/2 X 9 AQUALINE

 4 1/2 x 9 x 3 1/8

RUNNING BOND

BELGARD® | PAVES THE WAY

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BELGARD SALES & RESOURCE CENTER

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Charlotte, NC 28217

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