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L1

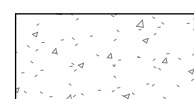
ABBREVIATIONS

NO SCALE

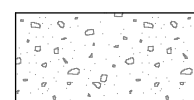
TYPICAL ARCHITECTURAL ABBREVIATIONS

L

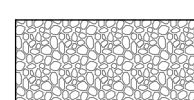
DIVISION 03 - CONCRETE



CAST-IN-PLACE CONCRETE



PRECAST CONCRETE

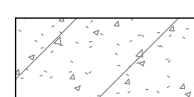


GRANULAR SUBBASE

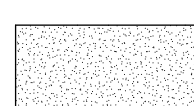
DIVISION 04 - MASONRY



BRICK



CONCRETE MASONRY UNITS



GROUT / GROUT FILL



CAVITY DRAINAGE MATERIAL

DIVISION 05 - METALS



STEEL



ALUMINUM

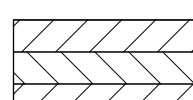
DIVISION 06 - WOOD, PLASTICS AND COMPOSITES



FINISH WOOD - CUT



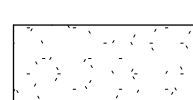
FINISH WOOD - ELEVATION



PLYWOOD



GYPSUM SHEATHING



PARTICLEBOARD



HARDBOARD



CONTINUOUS WOOD

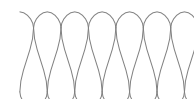


INTERMITTENT WOOD

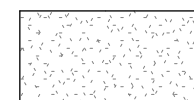
DIVISION 07 - THERMAL AND MOISTURE PROTECTION



THERMAL BATT INSULATION



SOUND INSULATION



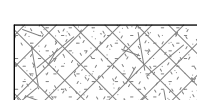
GYPSUM WALLBOARD



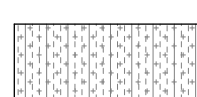
SPRAY FOAM INSULATION



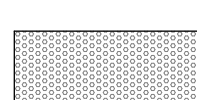
PERIMETER INSULATION



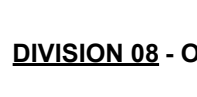
RIGID INSULATION



SPRAY FOAM INSULATION

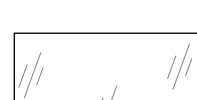


MINERAL WOOL INSULATION



SPRAYED FIRE-RESISTIVE MATERIAL

DIVISION 08 - OPENINGS

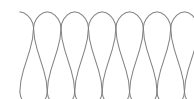


GLASS

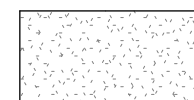
DIVISION 09 - FINISHES



THERMAL BATT INSULATION



SOUND INSULATION



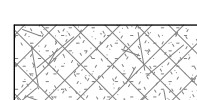
GYPSUM WALLBOARD



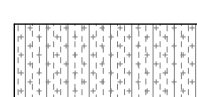
SPRAY FOAM INSULATION



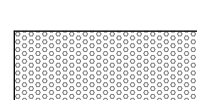
PERIMETER INSULATION



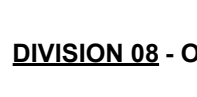
RIGID INSULATION



SPRAY FOAM INSULATION



MINERAL WOOL INSULATION



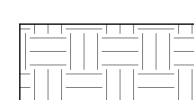
SPRAYED FIRE-RESISTIVE MATERIAL

DIVISION 23 - MECHANICAL



DUCT LINER

DIVISION 31 - EARTHWORK



EARTH - EXISTING SOIL



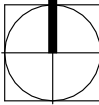
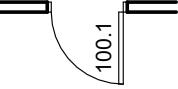
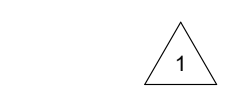
EARTH - COMPACTED BACKFILL



EARTH - CLAY TOPPING



GRANULAR FILL

G1		PATTERNS	
NO SCALE	TYPICAL ARCHITECTURAL HATCH PATTERNS		
F	 NORTH ARROW	 3D IMAGE CALLOUT DIRECTION OF VIEW DETAIL AND SHEET WHERE IMAGE IS DRAWN	 DOOR NUMBER
E	 DETAIL DETAIL IDENTIFICATION NUMBER SHEET NUMBER WHERE DETAIL IS DRAWN	OFFICE 100 ROOM IDENTIFICATION ROOM NAME ROOM NUMBER	033000 A KEYNOTE NUMBER
	 WALL SECTION DETAIL IDENTIFICATION NUMBER SHEET NUMBER WHERE DETAIL IS DRAWN	A10 NEW GRIDLINE REFERENCE	10'-0" CONTROL POINT
	 BUILDING SECTION DETAIL IDENTIFICATION NUMBER SHEET NUMBER WHERE DETAIL IS DRAWN	A10 EXISTING GRIDLINE REFERENCE	ROUGH OPENING EL. = 102'-4" VERTICAL CONTROL DIMENSION
D	 INTERIOR ELEVATION SHEET NUMBER WHERE DETAIL IS DRAWN DETAIL IDENTIFICATION NUMBER	REFT WALL TYPE	C CENTERLINE
	 BUILDING ELEVATION SHEET NUMBER WHERE DETAIL IS DRAWN DETAIL IDENTIFICATION NUMBER	OW WINDOW TYPE	1143.08' SLAB ELEVATION
C	 REVISION NUMBER	NOTE 1 SHEET SPECIFIC NOTE	EL. 1172.04' SPOT ELEVATION
	 DETAIL REFERENCE BLOCK DETAIL NUMBER DETAIL SCALE	D 001 DEMOLITION NOTE	TC 1172.04' TOP OF CURB
B	 STRUCTURAL SLOPE	CLG-1 CEILING ASSEMBLY TAG	TP 1172.04' TOP OF PAVEMENT
A	 SLAB AND OR ROOF SLOPE DIRECTION	CONFERENCE 1775 SF 15 1 18 SQUARE FOOT OF SPACE OR ROOM NUMBER OF CALCULATED OCCUPANTS	WALL OR SHAFT RATINGS 1 HOUR RATED WALL OR SHAFT 2 HOUR RATED WALL OR SHAFT
		1001 EXIT 101 240 36" LIFE SAFETY EGRESS CAPACITY TOTAL NUMBER OF OCCUPANTS EXITING CAPACITY OF EXIT ELEMENT EXIT WIDTH IN INCHES	

BIG BEN CHAIRS	A1	STANDARD ARCHITECTURAL SYMBOLS					
	SCALE: 1/8" = 1'-0"						
	1	2	3	4	5	6	

GENERAL NOTES RELATING TO PLACEMENT OF POWERED AND LOW-VOLTAGE DEVICES

1. ALIEN DEVICES VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE. NOT ALL DEVICES OR CONFIGURATIONS ARE DEPICTED ON THIS DETAIL. FOR ANY CONFIGURATIONS WITH FOUR OR MORE DEVICES, COORDINATE ARRANGEMENT WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS.
2. WHERE MULTIPLE SWITCHES OR WALL BOX DIMMERS ARE GANGED TOGETHER, ALIGN FIRST GANG WITH DEVICES ABOVE AND ADD DEVICES TO THE RIGHT AS REQUIRED.
3. DIMENSIONS ARE TO BE MEASURED FROM OUTSIDE EDGE OF DOOR FRAME OR TRIM. WHERE SIDELIGHT WINDOWS ARE PROVIDED, DIMENSIONS SHOULD BE MEASURED FROM OUTSIDE EDGE OF SIDELIGHT WINDOW FRAME OR TRIM.
4. ALL DEVICES SHALL BE LOCATED TO MAINTAIN ALL A.D.A. MOUNTING HEIGHT REQUIREMENTS AND SUCH THAT CENTER OF ADJACENT DEVICES ARE AT SAME ELEVATION (TYPICALLY 44" A.F.F. TO CENTER OF DEVICE). NOTIFY ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.

The diagram shows a cross-section of a standard door. The door is labeled "STANDARD DOOR". Above the door is a ceiling line with a centerline symbol. To the right of the door is a wall section. Various devices are indicated by numbered circles (1-8) and rectangles. Dimensions are shown: 84" from the top of the door frame to the center of the first device (1), 44" typical between the centers of two adjacent devices, and 18" from the bottom of the door frame to the center of the last device (8). A note indicates that the center of adjacent devices should be at the same elevation, typically 44" above finished floor (A.F.F.) to the center of the device.

DEVICE LEGEND

- ① WALL SWITCH, WALL OCCUPANCY SENSOR SWITCH, WALL BOX DIMMER SWITCH OR ENTRY STATION
- ② THERMOSTAT, TEMPERATURE SENSOR OR CARBON DIOXIDE SENSOR ROUGH-IN
- ③ FIRE ALARM AUDIO / VISUAL INDICATING DEVICE. MEASUREMENT IS TO CENTER OF STROBE LENS. COORDINATE ROUGH-IN HEIGHT WITH SPECIFIC MODEL OF INDICATING DEVICE
- ④ FIRE ALARM PULL STATION. MEASUREMENT IS TO CENTER OF PULL MECHANISM. COORDINATE ROUGH-IN HEIGHT WITH SPECIFIC MODEL OF DEVICE
- ⑤ ACCESS CONTROL CARD READER
- ⑥ EXIT SIGN
- ⑦ A/V TOUCHSCREEN
- ⑧ POWER RECEPTACLE, DATA PORT

The diagram shows a cross-section of a wall. The wall is labeled "WALL". Below the wall is a ceiling line with a centerline symbol. Various devices are indicated by numbered circles (1-8) and rectangles. Dimensions are shown: 84" from the top of the wall to the center of the first device (1), 44" typical between the centers of two adjacent devices, and 18" from the bottom of the wall to the center of the last device (8). A note indicates that the center of adjacent devices should be at the same elevation, typically 44" above finished floor (A.F.F.) to the center of the device.

LOCATION - WALLS <5'-0"

L7

DEVICE ALIGNMENT DETAILS

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

ELECTRICAL SWITCHES, OUTLETS, CONTROLS AND ACCESSORIES ON WALLS OVER OBSTRUCTIONS MUST BE A MINIMUM OF 36" FROM CORNERS, UNLESS OTHERWISE REQUIRED BY OTHER APPLICABLE CODES.

36" MIN.

5'0" MIN.

5'0" MIN.

5'0" MAX.

THERMOSTAT
INTERCOM
PULL BOX
SWITCH
ELECTRICAL OUTLET

COUNTER AND BASE CABINET OR OTHER OBSTRUCTION

STANDARD AND ACCESSIBLE
SWITCHES, OUTLETS, CONTROLS AND ACCESSORIES ABOVE
COUNTERTOPS AND OTHER OBSTRUCTIONS LESS THAN 25" IN DEPTH

'X' SIDE OF WALL

'Y' SIDE OF WALL

'REFER TO PARTITION TYPES FOR TYPICAL WALL MAKE-UP'

J7	Switches, Outlets, and Controls Above Countertop	J11	WALL TYP
SCALE: 1/4" = 1'-0"		SCALE: 1" = 1'-0"	
METAL CONTROL JOINT TO EXTEND 5' MIN. ABOVE FINISHED CEILING FINISHED CEILING LINE METAL CONTROL JOINT (USG R50 - SEE DIVISION 9 IN SPECS FOR FRAMING AND INSTALLATION REQUIREMENTS (TYP. EITHER SIDE OF OPENING, BOTH SIDES OF WALL)) GWB FINISH TYPICAL DOOR FRAME CRIPPLE FRAMING STUD METAL CONTROL JOINT GWB FINISH 1/2" NON-RATED ASSEMBLY CRIPPLE FIRE RATED INSUL. FRAMING STUD METAL CONTROL JOINT GWB FINISH 1-HR RATED ASSEMBLY CRIPPLE FIRE RATED INSUL. FRAMING STUD METAL CONTROL JOINT GWB FINISH 2-HR RATED ASSEMBLY TYPICAL GWB CONTROL JOINT DETAIL AT HEAD OF DOOR OPENING		NOTE: MOUNTING OF ALL ACCESSORIES TO PROVIDE WOOD BLOCKING AS SHOWN TYPICAL LOCATION OF FIRE-RATED DOOR FRAME BLOCKING	

F7	GWB CONTROL JOINT DETAILS		F11	TYPICAL F	
SCALE: 3" = 1'-0"			SCALE: 1/4" = 1'-0"		
G METAL STUD - FIRE RATED G7 METAL STUD					
A7	WALL TYPES				
SCALE: 1" = 1'-0"	7	8	9	10	11

[illegible]

[illegible]

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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099123 INTERIOR PAINTING

Storage and Field Conditions:

Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg. F. Remove rags and waste from storage areas daily.

Apply paints only when temperatures of surfaces to be painted and ambient air temperatures are between 50 and 95 deg. F. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

Materials:

Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer based on testing and field experience. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

Colors:

(PNT-1): Basis-of-Design: Sherwin Williams "Pure White" - SW 7005

Location: Typical Walls and Ceiling unless noted otherwise.
Finish / Sheen: Eg-Shel at Walls, Flat at Ceilings and Underside of Bulkheads

(PNT-2):

Basis-of-Design: Sherwin Williams "Tricorn Black" - SW 6258
Finish / Sheen: Eg-Shel at Walls, Flat at Ceilings and Underside of Bulkheads

Preparation:

Comply with recommendations in MPI's "MPI Architectural Painting Specification Manual" applicable to substrates indicated for both preparation and application.

Remove hardware, lighting fixtures and similar items that are not to be painted. Mask items that cannot be removed. Reinstall items in each area after painting is complete.

Clean and prepare surfaces in an area before beginning painting in that area. Schedule painting so cleaning operations will not damage newly painted surfaces.

Application:

Paint exposed surfaces, new and existing unless otherwise indicated. Do not paint prefinished items, items with an integral finish, operating parts, and labels unless otherwise indicated.

Apply paints according to manufacturer's written instructions. Use brushes only where the use of other applicators is not practical. Use rollers for finish coat on all interior walls and ceilings.

Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color and appearance.

Interior Paint Application Schedule:

All systems are scheduled using products by **The Sherwin Williams Company as the Basis-of-Design**. Comparable systems by Diamond Vogel Paints, ICI Paints and PPG Architectural Finishes, Inc. are also acceptable.

Gypsum Board Substrates:

Typical Walls: (Acrylic Latex)

Finished Sheen: Low Lustre
Prime Coat: ProMar 200 Zero VOC Interior Latex Primer (B28W02600)
Intermediate Coat: Cashmere Interior Acrylic Latex (D17W00151)
Topcoat: Cashmere Interior Acrylic Latex (D17W00151)

Typical Ceilings: (Acrylic Latex)

Finished Sheen: Low Lustre
Prime Coat: ProMar 200 Zero VOC Interior Latex Primer (B28W02600)
Intermediate Coat: Cashmere Interior Acrylic Latex (D17W00151)
Topcoat: Cashmere Interior Acrylic Latex (D17W00151)

Steel Substrates:

Acrylic Interior System
Prime Coat: Pro-Industrial Pro-Cryl® Universal Primer (B66W0310)
Intermediate Coat: Pro Industrial 0 VOC Acrylic Semi-Gloss (B66W051)
Topcoat: Pro Industrial 0 VOC Acrylic Semi-Gloss (B66W051)

099300 STAINING AND TRANSPARENT FINISHING

Storage and Field Conditions:

Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg. F. Remove rags and waste from storage areas daily.

Apply finishes only when temperatures of surfaces to be finished and ambient air temperatures are between 50 and 95 deg. F. Do not apply finishes when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces. Do not apply exterior finishes in snow, rain, fog or mist.

Materials:

Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer based on testing and field experience.

Preparation:

Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated for both preparation and application.

Remove hardware, covers, plates and similar items already in place that are removable. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and finishing. After completing finishing operation, use workers skilled in the trades involved to reinstall items that were removed.

Clean and prepare surfaces to be finished according to manufacturer's written instructions for each substrate condition and as specified. Remove dust, dirt, oil and greases by washing with a detergent solution; rinse thoroughly with clean water and allow to dry. Remove grade stamps and pencil marks by sanding lightly. Remove loose wood fibers by brushing. Remove mildew by scrubbing with commercial wash formulated for mildew removal and as recommended by stain manufacturer.

At interior wood substrates, scrape and clean knots and apply coat of knot sealer before applying primer. Apply wood filler paste to open-grain woods as defined in "MPI Architectural Painting Specification Manual" to produce smooth, glasslike finish. Sand surfaces exposed to view and dust off. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dry.

Application:

Apply finishes according to manufacturer's written instructions.

Apply finishes to produce surface films without cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other surface imperfections.

Wood Finish System Schedule:

All systems are scheduled using products by **The Sherwin Williams Company as the Basis-of-Design**.

Wood Substrates: Interior Architectural millwork, trim and doors

Water-Based Polyurethane over Stain System:

Stain Coat: Basis-of-Design: Sher-Wood BAC Stain
First Intermediate Coat: Water-based varnish matching topcoat.
Second Intermediate Coat: Water-based varnish matching topcoat.
Topcoat: Clear Waterbase Polyurethane (A68F90), (Satin finish).
Color: Match PNT-2

101400 SIGNAGE

General:

Provide all signage as applicable to the project in order to obtain final occupancy.

Signs shall be required at any restroom, stair, fire sprinkler room, elevator equipment room, exterior vertical shaft-way and primary building entrance.

Any permits required for obtaining signs shall be the responsibility of the Contractor and shall be included in the cost of the construction.

Room identification signs shall be constructed with smooth, uniform surfaces with message and characters having uniform faces, sharp corners and precisely formed lines and profiles. Sign face shall be an engineered PVC/Acrylic allow with integral background colors and high impact resistance. Provide tactile copy and grade 2 braille raised 1/32 inch minimum from plaque surface using manufacturer's standard process. Lettering and graphics shall be precisely formed, uniformly opaque and in compliance with relevant ADA regulations and requirements indicated for size, style, spacing, content, position and colors. Background colors shall be high contrast semi-matte integral colors for graphics with all integral colors utilizing U.V. stabilized resins with industrial grade pigments. Edges shall be cut smooth, square and utilize rounded corners. Mount signs with manufacturer's standard two-face tape. Font style shall be Arial. Schedule of Room Identification Signs is as follows:

- Restrooms: Size - 6" wide x 8" high. Text/message shall be "MEN" at men's restrooms, "WOMEN" at women's restrooms and "FAMILY" at family restrooms. Provide an integrated graphic representation of the appropriate use with text. Signs shall be mounted on door (for in-swinging doors) or on wall, outside of the swing of the door (for out-swinging doors).

Building identification signs shall be constructed with field-applied, vinyl characters die cut from 3 to 3.5 mil thick, weather-resistant vinyl film with release liner on back and carrier film on front for on-site alignment and application. Schedule of Building Identification Signs is as follows:

- Entry Door: Provide 8" high field-applied vinyl character mounted to glass at top of entry door panel. Text/message shall be the buildings numerical address as defined by the AHJ.
- Final placement of building identification signs shall be confirmed by the contractor with the AHJ prior to installation.

Departmental Signage: Refer to Drawings.

101100 VISUAL DISPLAY SURFACES

General:

Obtain each product from single source from single manufacturer.

Do not deliver or install until spaces are enclosed and weathertight, wet work is complete and dry work above ceilings is complete with temporary HVAC system operating and maintaining an ambient temperature and humidity condition comparable to occupancy conditions.

Store vertically, with packaging materials between each unit.

Markerboards:

Provide porcelain-enamel markerboard assembly that is a balanced, high-pressure, factory-laminated markerboard assembly of three-ply construction consisting of backing sheet, 1/2 inch thick fiberboard core and 0.02-inch thick porcelain-enamel face sheet with high-gloss finish with the following accessories:

- Continuous display rail integral with map rail fabricated from cork approximately 1 to 2 inches wide.
- End stops located at each end of map rail.
- Two map hooks with flexible metal clips for every 48 inches of map rail or fraction thereof.
- One flag holder for each room.
- Solid type chalk/stry.

Units are to be factory assembled with clear anodized aluminum frames and trim, 0.010 mm or thicker. Corners shall be square and mitered to a neat hairline closure. Units are to be mounted with a rail support system at a mounting height of 36 inches above finished floor to the top of the chalk/stry.

Tableboards:

Provide plastic-impregnated cork sheet. Seamless, homogeneous, self-sealing sheet consisting of granulated cork, linseed oil, resin binders, and dry pigments that are mixed and calendared onto fabric backing, with washable vinyl finish and integral color throughout.

122413 ROLLER WINDOW SHADES

General:

Product Standard: Unless noted otherwise, fabricate roller shades to comply with WCMA A 100.1.

Coordinate blocking requirements with other trades.

Field verify all dimensions prior to fabrication.

Fabrication:

Fabricate units in sizes to fill window and other openings as follows:

Between (Inside) Jamb Installations: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch per side or 1/2-inch total, plus or minus 1/8-inch. Length equal to head-to-sill dimension of opening in which shade is installed less 1/4-inch, plus or minus 1/8-inch.

Outside of Jamb Installations: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separation between openings.

Fabricate shadebands without battens or seams to extent possible.

Manually Operated Shades with Single Rollers:

Basis-of-Design: SWF Contract, True Performance Manual Solar Shades

(RS-X):

See Material List

Installation:

Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions. For opaque shadebands, located so shadeband is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.

Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

123623.13 PLASTIC-LAMINATE COUNTERTOPS

General:

Field verify all dimensions of countertops after base cabinets are installed but before countertop fabrication is complete.

Do not deliver or install countertops until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.

Quality Standards:

Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of plastic-laminate-clad countertops indicated for construction, finishes, installation and other requirements.

Materials:

PLAM-X: Basis-of-Design:

See Materials List.

Plywood to be exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

Grade: Custom

Edge Treatment: 3.0-mm PVC edging.

Core Material: Particleboard

Core Thickness: 3/4 inch with countertop thickness built up to 1-1/2 inches at front, back and at ends with additional layers of core material laminated to top.

Fabrication:

Fabricate to dimensions, profiles and details indicated. Provide front and end overhang of 1 inch over base cabinets.

When possible, fabricate countertops without joints. Where unable to fabricate without joints, fabricate in sections for joining in field. Joint locations should not be within 18 inches of a sink or cooktop and not where a countertop section less than 36 inches long would result.

Seal edges of cutouts by saturating with varnish.

Installation:

Install countertops level to a tolerance of 1/8 inch in 8 feet, 1/4 inch maximum. Do not exceed 1/64-inch difference between planes of adjacent units.

Install backsplashes and end splashes by adhering to wall and countertops with adhesive. Mask areas of countertops and splashes adjacent to joints to prevent adhesive seepage.

Seal joints between countertop and backsplash, if any, and joints where countertop and backsplash abut walls with mildew-resistant silicone sealant or another permanently elastic sealing compound recommended by countertop material manufacturer.

123661.19 QUARTZ AGGLOMERATE COUNTERTOPS

General:

Field verify all dimensions of countertops after base cabinets are installed but before countertop fabrication is complete.

Materials:

Solid sheets consisting of quartz aggregates bound together with a matrix of filled plastic resin and complying with ICMA SS-1, except for composition.

(QTZ-X): Basis-of-Design:

See Materials List.

Plywood to be exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

Fabrication:

Fabricate according to quartz agglomerate manufacturer's written instructions and the AWI "Architectural Woodwork Standards"

Grade: Premium

Configuration: Front to be straight, slightly eased at top. Back and End Splashes to be slightly eased at corner.

Countertops to be 3CM with Backsplashes (where indicated) to be 2CM

Fabricate tops with shop-applied edges unless otherwise indicated. Fabricate with loose backsplashes for field assembly.

When possible, fabricate countertops without joints. Where unable to fabricate without joints, fabricate in sections for joining in field. Joint locations should not be within 18 inches of a sink or cooktop and not where a countertop section less than 36 inches long would result.

Cutouts and Holes: Make cutouts for fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves. Provide vertical edges, slightly eased at juncture of cutout edges with top and bottom surfaces of countertop and projecting 3/16 inch into fixture opening.

Installation:

Install countertops level to a tolerance of 1/8 inch in 8 feet, 1/4 inch maximum. Do not exceed 1/64-inch difference between planes of adjacent units.

Fasten subtops to cabinets by screwing through subtops into cornerblocks or base cabinets. Shim as needed to align subtops in a level plane.

Secure countertops to subtops with adhesive according to material manufacturer's written instructions. Align adjacent surfaces and using adhesive in color to match countertop, form seams to comply with manufacturer's written instructions. Carefully dress joints smooth, remove surface scratches and clean entire surface.

Bond joints with adhesive and draw tight as countertops are set. Mask areas of countertops adjacent to joints to prevent adhesive seepage.

Install backsplashes and end splashes by adhering to wall and countertops with adhesive. Mask areas of countertops and splashes adjacent to joints to prevent adhesive seepage.

Apply sealant to gaps at walls; comply with Section 073200 "Joint Sealants".



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HILLE
ARCHITECTS

Project Name:

Olsson

North Little Rock
Office

SHA Project Number: 25073

Project Address: 1 Riverfront Drive
North Little Rock, AR 72114

Design Team:

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Certificate of Authorization #: COA-01289
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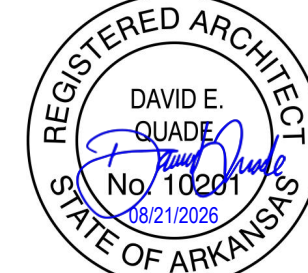
MECHANICAL/ELECTRICAL ENGINEERING

Consultant Project #: 016-0172
Certificate of Authorization #: 1010

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Seal:



REVISION SCHEDULE

#	Date	Revision Description
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Issue: Construction Documents

Date: August 20, 2026

Drawn by: PD & KT

Checked by: DEQ

Designer: KT

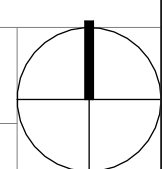
Project Architect: DEQ

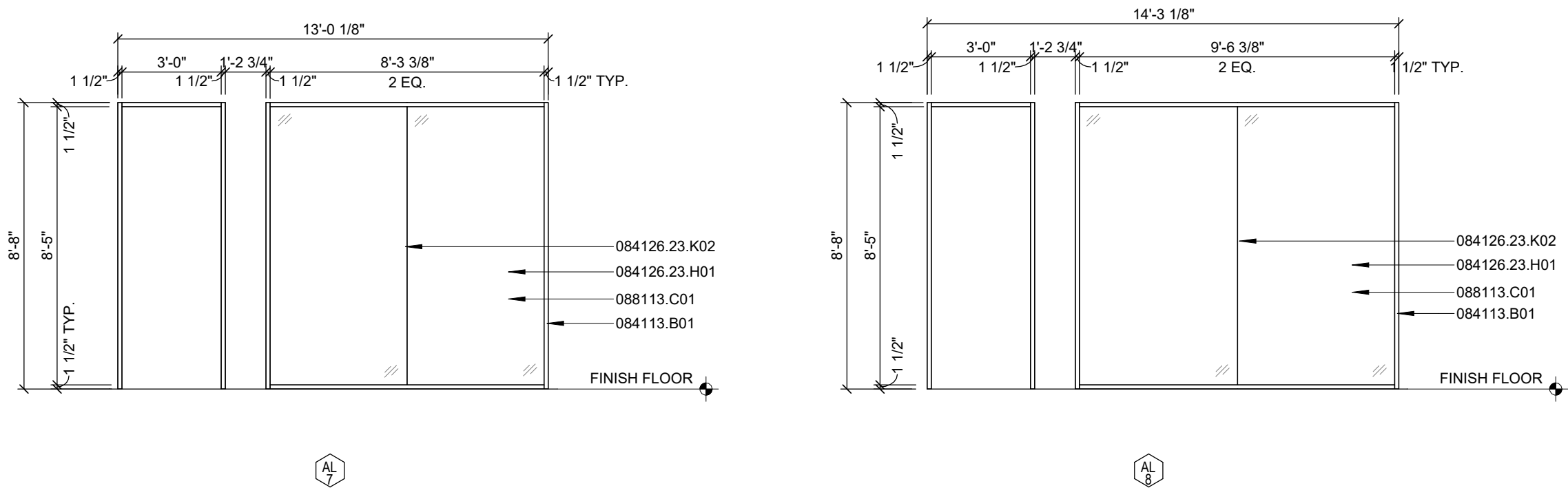
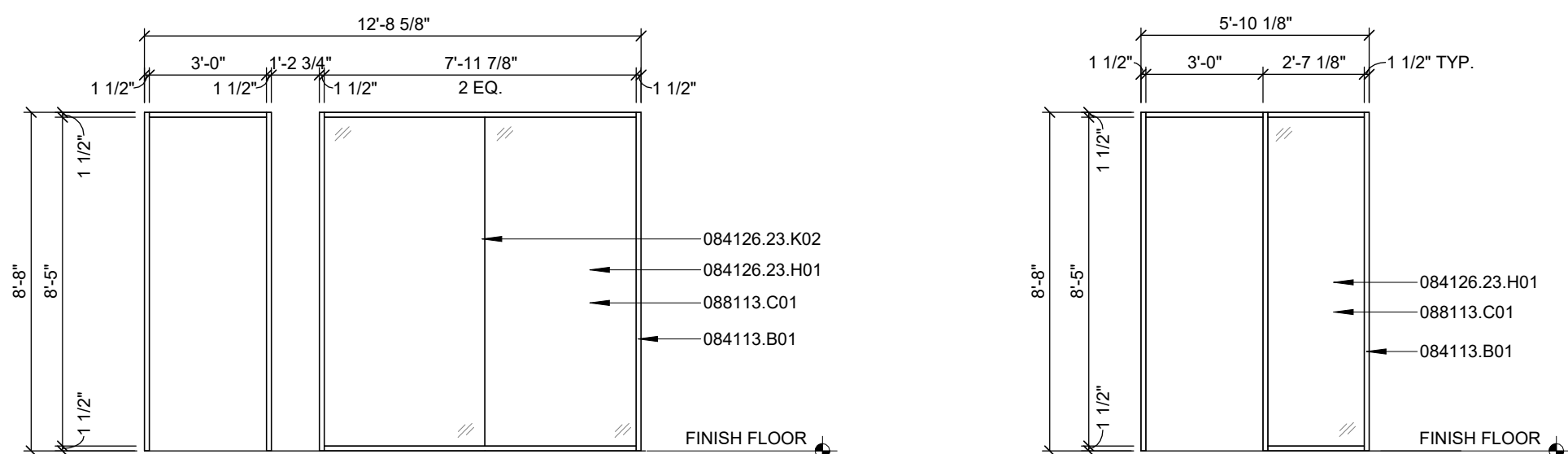
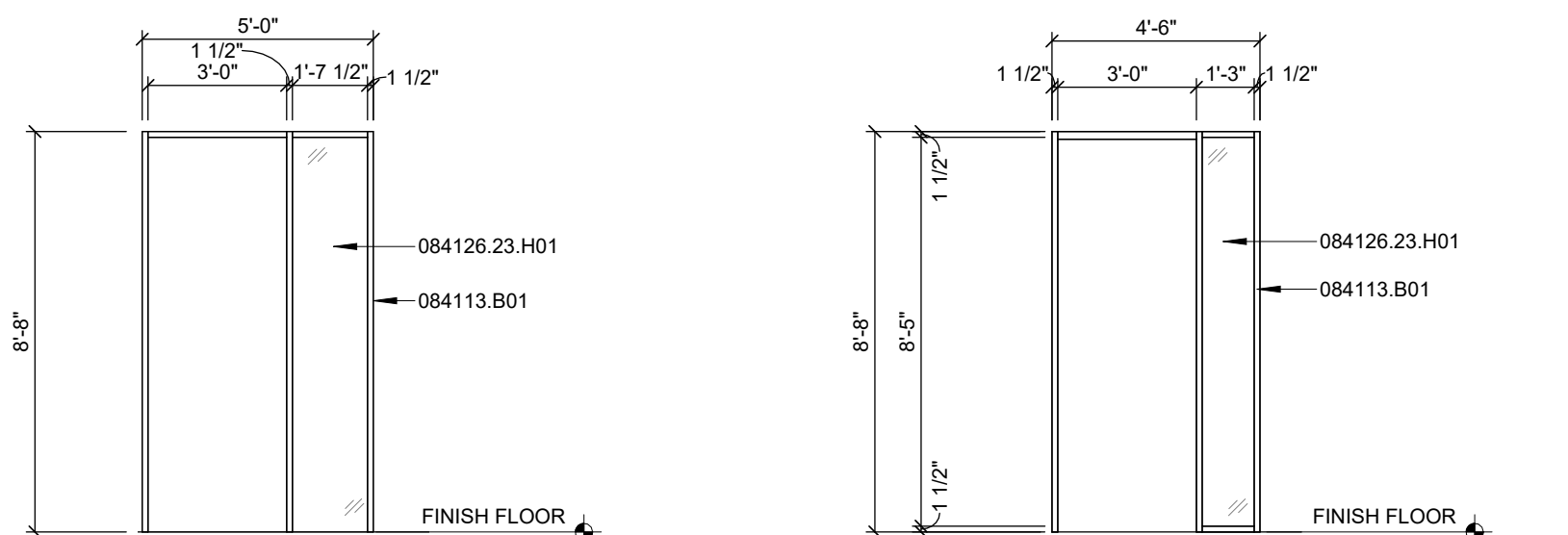
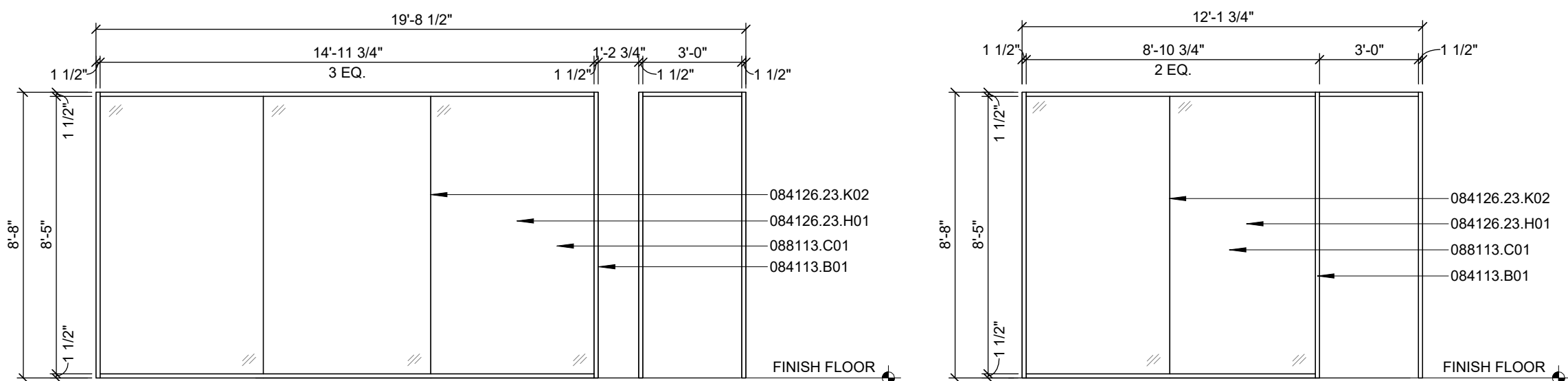
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Architectural
Specifications

Sheet Number:

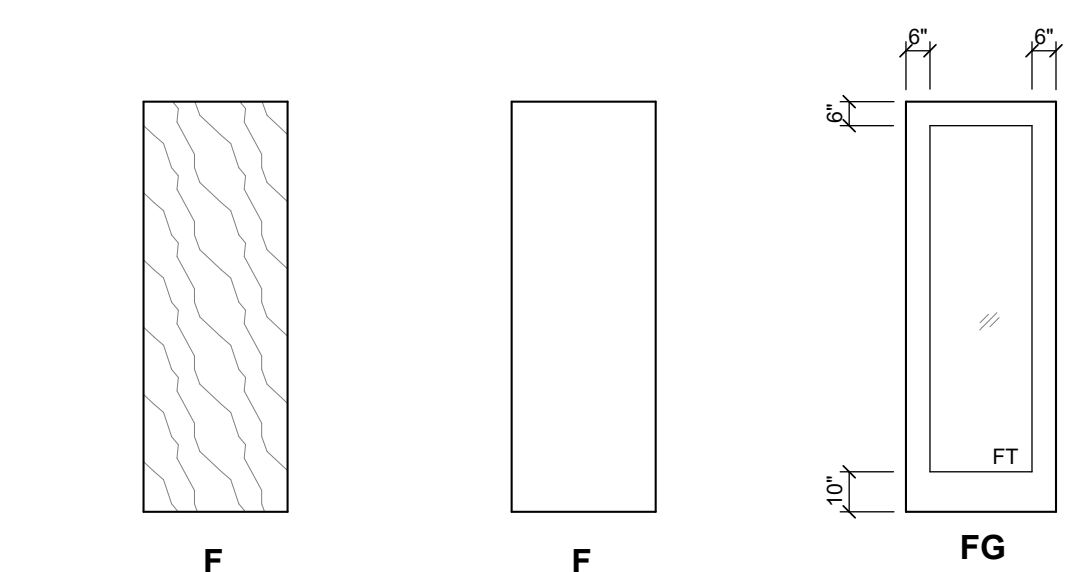
AG203

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MATERIAL LIST									
MARK	DESCRIPTION	SECTION	MANUFACTURER	MATERIAL/COLOR	FINISH/INSTALL	SIZE	LOCATION, U.N.O.	NOTES	
DIVISION 06: WOODS, PLASTICS AND COMPOSITES									
DHW-1	HARDWARE - CABINET TAB PULL	06 41 16	MOCKETT	DP93C - TAB DRAWER PULL	MATTE BLACK	1-1/2" X 6"	TYPE U.N.O.	--	
DHW-2	HARDWARE - GROMMET HOOK	06 41 16	MOCKETT	EDP3 - FLIP TOP GROMMET SET WITH CAP AND LINER	BLACK	2-1/2" DIAMETER	RECEPTION 101	--	
DHW-3	HARDWARE - COAT HOOK	06 41 16	SIGNATURE HARDWARE	ELSTER MODERN BRASS DOUBLE HOOK	MATTE BLACK	9" H	WELLNESS 105	--	
PLAM-1	PLASTIC LAMINATE	06 41 16	WILSONART	7638 NEW AGE OAK	SOFT GRAIN FINISH	--	--	--	VERTICAL ORIENTATION
PLAM-2	PLASTIC LAMINATE	06 41 16	FORMICA	8552-NG BLACK BIRCHPLY	NATURAL GRAIN FINISH	--	LARGE CONFERENCE 103 & BREAK 106	--	
WD-1	WOOD - NATURAL	06 42 16	--	RIFT CUT WHITE OAK	CLEAR MATTE, ICA URETHANE (2 COATS)	--	--	--	
WD-2	WOOD - EBONY	06 42 16	--	RIFT CUT WHITE OAK	TINTED TO MATCH PNT-2	--	--	--	PNT-2 TINTED CONVERSION VARNISH (2) / WET COATS CHEM LITE 421-6300 / CHEM LITE 24 CONVERSION VARNISH SEALER; (1) TOP COAT CHEMCAFT 421-6300 / CHEM LITE 24 CONVERSION VARNISH CLEAR TO LOW GLOSS; GRAIN SHOULD SHOW THROUGH VARNISH. PROVIDE ARCH SAMPLE
WPW-1	WOOD PANEL WALL - ACOUSTICAL	06 42 16	SOUNDPLY	LATUS WP-LRM19 - 3/4" THICK ACOUSTIC WOOD WALL PANEL	WHITE OAK RIFT CUT, FINISH TO MATCH WD-1	SIZE VARIES. SEE DRAWINGS	BREAK 106	--	INSTALL DIRECT MOUNT WITH 2 CLIPS. ALL PANELS TO BE EDGEBAND TO MATCH PANEL FACE BY MANUFACTURER
WPW-12	WOOD PANEL WALL - ACOUSTICAL	06 42 16	SOUNDPLY	LATUS WP-LRM15 - 2" THICK ACOUSTIC WOOD WALL PANEL	WHITE OAK RIFT CUT, FINISH TO MATCH WD-1	SIZE VARIES. SEE DRAWINGS	BREAK 106	--	INSTALL DIRECT MOUNT WITH 2 CLIPS; VENEER PANEL TO MATCH AND BE SEQUENTIAL WITH WPW-1.1 AND WPW-1.2. ALL PANELS TO BE EDGEBAND TO MATCH PANEL FACE BY MANUFACTURER
WPW-13	WOOD PANEL WALL - ACOUSTICAL	06 42 16	SOUNDPLY	3/4" PLYWOOD VENEER PANEL	WHITE OAK RIFT CUT, FINISH TO MATCH WD-1	SIZE VARIES. SEE DRAWINGS	BREAK 106	--	INSTALL DIRECT MOUNT WITH 2 CLIPS. ALL PANELS TO BE EDGEBAND TO MATCH PANEL FACE BY MANUFACTURER
WPW-2	WOOD PANEL WALL - EBONY	06 42 16	--	3/4" PLYWOOD VENEER PANEL	WHITE OAK RIFT CUT, FINISH TO MATCH WD-2	SIZE VARIES. SEE DRAWINGS	RECEPTION 101	--	INSTALL DIRECT MOUNT WITH 2 CLIPS. PNT-2 TINTED CONVERSION VARNISH TO MATCH WD-2
DIVISION 09: FINISHES									
CT-1	CERAMIC TILE	09 30 13	ANN SACKS	CONTEXT - 1X6 STACKED MOSAIC, BLACK / METALLIC	VERTICAL STACKED	12" X 12" SHEET	BREAK 106	--	GROUP: MAPEI ULTRACOLOR PLUS FA, BLACK 5010
APC-1	ACOUSTIC CEILING PANEL	09 51 13	ARMSTRONG	3256 OPTIMA SQUARE REGULAR 916"	WHITE	48" X 48" X 1" THICK	TYPICAL U.N.O.	--	GRID: SUPRAFINE XL 916" EXPOSED TEE; AT SUSPENDED CLOUD LOCATIONS. PROVIDE 6TH AXIOM CLASSIC TRIM ALL SIDES (COLOR: WHITE). GRID: SUPRAFINE XL 916" EXPOSED TEE
APC-2	ACOUSTIC CEILING PANEL	09 51 13	ARMSTRONG	3251 OPTIMA SQUARE REGULAR 916"	WHITE	24" X 24" X 1" THICK	105, 107, 109, 110, 111, 113	--	
RWB-1	RUBBER WALL BASE	09 65 13	TARKETT	MM 40 H MANDALAY 4 1/2" 08 BLACK	4" H	4" H	--	--	
RWB-2	RUBBER WALL BASE	09 65 13	TARKETT	MM 08 H MANDALAY 4 1/2" 08 CLAY	4" H	4" H	--	--	WHERE NOTED IN SPEC NOTES
LVT-1	LUXURY VINYL TILE	09 65 19	INTERFACE	LEVEL SET COLLECTION, TEXTURED STONES 4 MM, LIGHT CONCRETE A00309	MONOLITHIC	50CM X 50CM X 4.5MM THICK	BREAK 106	--	
LVT-2	LUXURY VINYL TILE	09 65 19	INTERFACE	NORTHERN GRAIN 4.5 MM PLANKS, A02611 OAK SATIN	ASHLAR	25CM X 1M PLANK	RECEPTION 101	--	
CPT-1	CARPET TILE	09 68 13	INTERFACE	WORLD WOVEN WWB70, 105345 CHARCOAL, WEFT	ASHLAR	25CM X 1M PLANK	105, 107, 108, 109, 111, 112	--	
CPT-2	CARPET TILE	09 68 13	INTERFACE	WORLD WOVEN WWB70, 103434 FLANNEL, WEFT	ASHLAR	25CM X 1M PLANK	OPEN OFFICE	--	
CPT-3	CARPET TILE	09 68 13	INTERFACE	WORLD WOVEN WWB95, 103512 PLATEAU WEAVE	ASHLAR	25CM X 1M PLANK	LARGE CONFERENCE 103	--	
CPT-4	CARPET TILE	09 68 13	INTERFACE	WORLD WOVEN WWB70, CLUSTOM COLOR TO MATCH ARCHITECT'S SAMPLE #275184-003	ASHLAR	25CM X 1M PLANK	ZOOM ROOMS AND COLLAP SPACE	--	
TS-1	TRANSITION STRIP	09 68 13	SCHLUTER	SCHIELE, STAINLESS STEEL	STAINLESS STEEL	COORDINATE WITH FLOORING THICKNESS	CONCRETE FLOORING TO CARPET FLOORING	--	
TS-2	TRANSITION STRIP	09 68 13	SCHLUTER	VINIRO-S, STAINLESS STEEL	STAINLESS STEEL	COORDINATE WITH FLOORING THICKNESS	LIFT FLOORING TO CARPET FLOORING	--	
WCV-1	WALLCOVERING - ACOUSTIC	09 72 00	MOMENTUM	NUFELT WALLCOVERING, PTFN-06 WISHFUL THINKING	SEAMLESS	63" W ROLL	ZOOM / MEETING ROOMS	--	PROVIDE LEVEL 5 FINISH AT WALL SUBSTRATE. DIRECT INSTALL WCV WITH FULL SPREAD ADHESIVE. SEE INT ELEVATIONS FOR SEAM LOCATIONS
WCV-2	WALLCOVERING - ACOUSTIC	09 72 00	MOMENTUM	NUFELT WALLCOVERING, PTFN-04 ADVENTURE	SEAMLESS	63" W ROLL	ZOOM ROOMS / MEETING ROOMS	--	PROVIDE LEVEL 5 FINISH AT WALL SUBSTRATE. DIRECT INSTALL WCV WITH FULL SPREAD ADHESIVE. SEE INT ELEVATIONS FOR SEAM LOCATIONS
WCV-3	WALLCOVERING - ACOUSTIC	09 72 00	FILZFELT	433 MARQUEE	SEAMLESS	70" 3/4" W ROLL	COLLAP SPACE	--	PROVIDE LEVEL 5 FINISH AT WALL SUBSTRATE. DIRECT INSTALL WCV WITH FULL SPREAD ADHESIVE. SEE INT ELEVATIONS FOR SEAM LOCATIONS
ABC-1	ACOUSTIC BAFFLE CEILING	09 84 36	ACOUFELT	TRUSS CEILING BAFFLES - PREMIER COLLECTION, METAL MED3	--	12" H X 60" L X 2" THICK DALLAS; 4 1/2" O.C. SPACING	BREAK 106	--	INSTALL WITH CABLE DECK MOUNT EMBEDDED BAFFLE HANGING KIT
PNT-1	WALL / CEILING PAINT	09 91 23	SHERWIN WILLIAMS	PURE WHITE SW 7005	--	--	TYPE U.N.O.	--	
PNT-2	ACCENT PAINT (BLACK)	09 91 23	SHERWIN WILLIAMS	TRIGRCON BLACK SW 6258	--	--	--	--	
DIVISION 10: SPECIALTIES									
GB-1	GLASS MARKER BOARD	10 11 00	CLARUS	FLOAT MAGNETIC	SMOOTH WHITE / GLOSS FINISH	5'-0" X 8'-0"	CONFERENCE AND HIDDLE ROOMS	--	INSTALL HORIZONTAL ON CONCEALED FLOAT MOUNT. PROVIDE (1) JET BLACK MAGNETIC BOX TRAY PER BOARD
WCV-4	WALLCOVERING - TACKABLE	10 11 00	KOROSEAL	WALLTALKERS TAC-WALL, HARBOR	INSTALL ROLL HORIZONTAL TO AVOID SEAMS	48"W ROLL	--	--	INSTALL ALUMINUM TRIM AT ALL EXPOSED EDGES

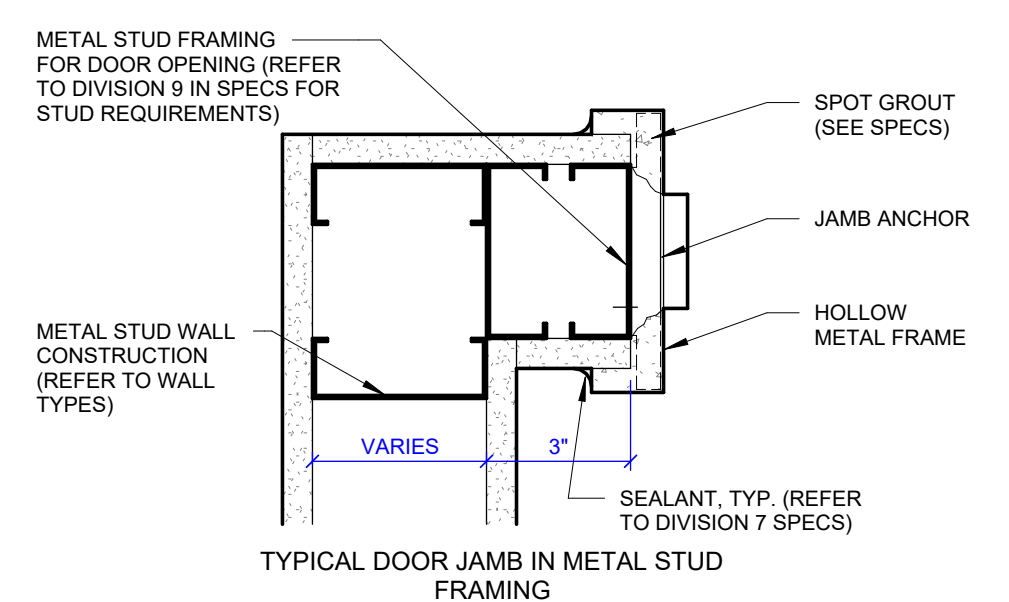
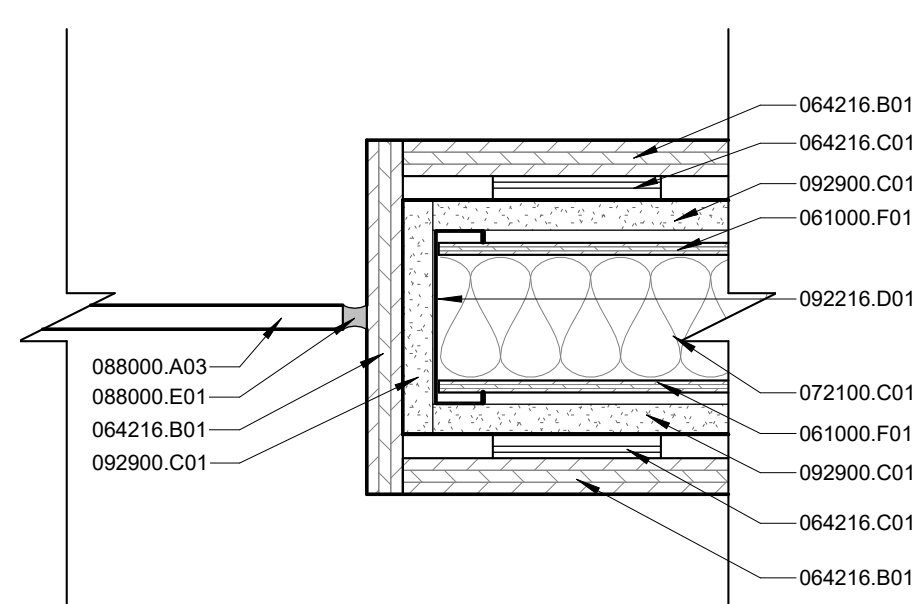
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Door No.	Door Size	F.R.	DOOR			FRAME			Hardware	NOTES	Door No.	
			Elev.	Mat	Fin.	Type	Mat	Fin.				
101.1	3'-0" x 8'-6 1/2"		FG	WD	STN	AL-#	AL	BLACK	#1	CR	101.1	
101.2	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#3	CR	101.2	
102.1	3'-0" x 8'-6 1/2"		WD	STN			BLK	BLACK	#4	CR	102.1	
102.2	3'-0" x 7'-0"		F	WD	STN	HM-#	HM	PNT	#3	CR	102.2	
103.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	103.1	
103.2	3'-0" x 8'-6 1/2"		WD	STN			AL	BLACK	#3	CR	103.2	
104.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#4	CR	104.1	
105.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#6	Privacy	105.1	
105.2	3'-0" x 7'-0"		F	WD	PNT-1	HM-#	HM	PNT-1	#2	CR	105.2	
107.1	3'-0" x 8'-6 1/2"		F	WD	STN	HM-#	HM	PNT	#7	Pocket, Passage	107.1	
108.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	108.1	
108.2	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	108.1	
110.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	110.1	
111.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	111.1	
112.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	112.1	
113.1	3'-0" x 8'-6 1/2"		F	WD	STN	AL-#	AL	BLACK	#5	Passage	113.1	



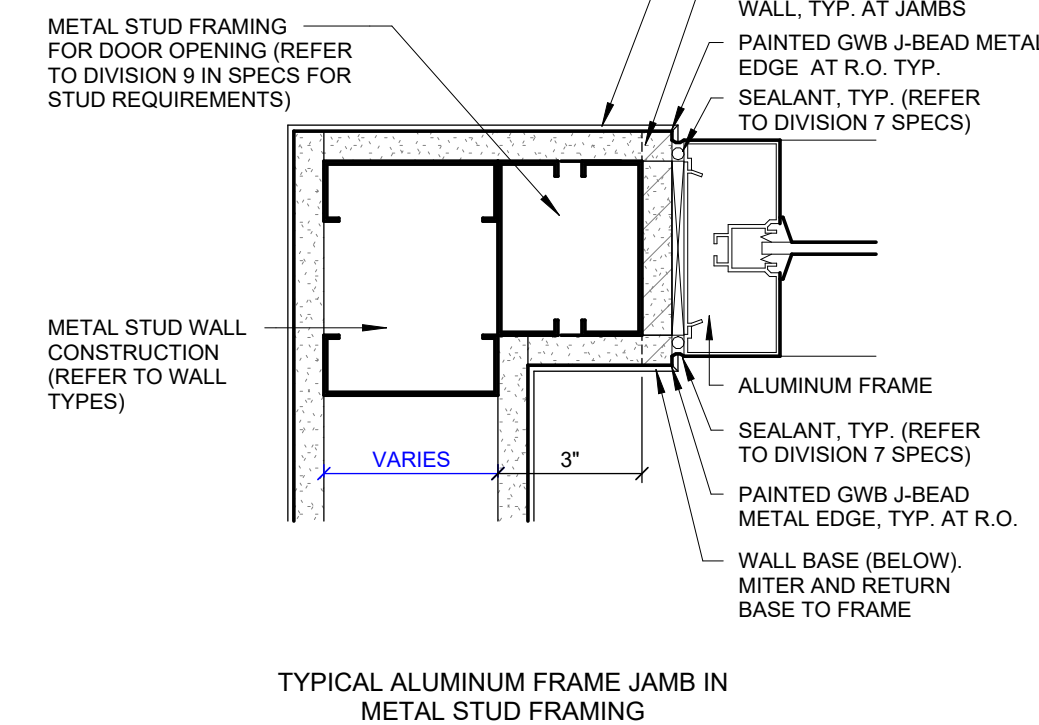
J7	MATERIAL LIST
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E7	DOOR TYPES
----	------------

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

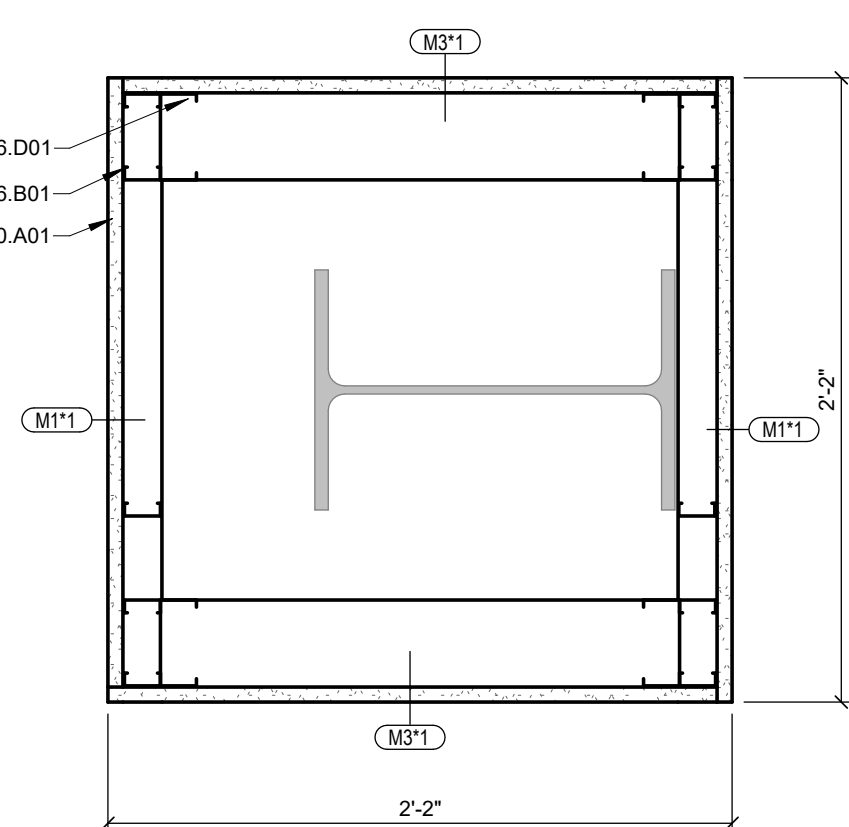


E11	DOOR SCHEDULE
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A7	PLAN DETAIL
----	-------------

SCALE: 3" = 1'-0"



A4	PLAN DETAIL
----	-------------

SCALE: 1 1/2" = 1'-0" INTERIOR COLUMN WRAP PLAN DETAIL - TYPICAL

Project Name:

Olsson

North Little Rock Office

SHA Project Number: 25073

Project Address: 1 Riverfront Drive
North Little Rock, AR 72114

Design Team:

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Consultant Project #: 016-0172
Certificate of Authorization #: 1010

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Seal:



x REVISION SCHEDULE		
#	Date	Revision Description

[illegible]

Issue:	Construction Documents
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Date: August 20, 2026

Drawn by: PD & KT

Checked by:	DEC
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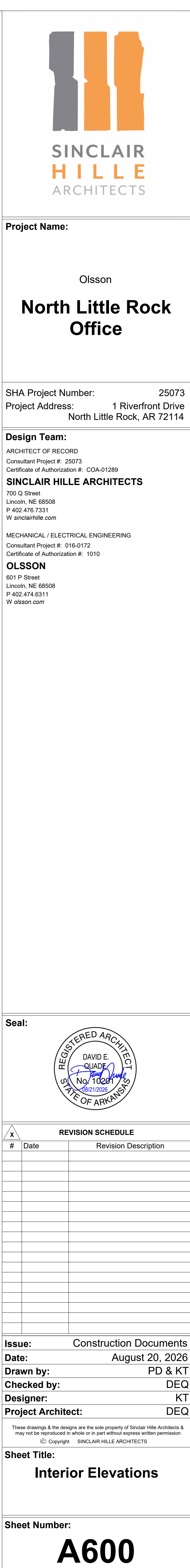
Designer:	KT
Project Architect:	DEC

Sheet Title:

Finish Schedule, Door Schedule, Frame Types, and Door Types

Sheet Number:

A110



MEDICAL GAS	
MA	MEDICAL COMPRESSED AIR
CO ₂	CARBON DIOXIDE
He	HELIUM
N	NITROGEN
LA	LABORATORY COMPRESSED AIR
MO	MEDICAL AIR OUTLET
CO ₂ O	CARBON DIOXIDE OUTLET
HeO	HELIUM OUTLET
NO	NITROGEN OUTLET
NO ₂ O	NITROUS OXIDE OUTLET
N ₂ O	NITROUS OXIDE
O ₂	OXYGEN
MAV	MEDICAL VACUUM
WAGD	WASTE ANESTHETIC GAS DISPOSAL
LAO	LABORATORY VACUUM
VO	VACUUM OUTLET
VS	VACUUM SLIDE OUTLET
WAGD	WAGD OUTLET
ZZV	ZONE VALVE BOX
ZZV	ZONE VALVE BOX

IN	INCHES OF WATER COLUMN
LC	LABORATORY EXHAUST AIR
LA	LEAKING AIR TEMPERATURE
MA	MAINTAINING WATER TEMPERATURE
MX	MIXED AIR
MAV	MANUAL AIR PER HOUR
MBH	THOUSAND BTU PER HOUR
NC	NOISE CRITERIA
NSF	NATIONAL SANITATION FOUNDATION
OSF	OUTSIDE SCREW AND YOKÉ
PT	PRESSURE-TEMPERATURE TEST PORT
PP	PRESSURE DROP
PD	PUMPING AND DRAINAGE INSTITUTE
PS	PRESSURE GAUGE
PG	POUNDS PER SQUARE INCH
RH	RELATIVE HUMIDITY
SD	SMOKE DETECTOR
SE	SEASONAL ENERGY EFFICIENCY RATING
SENS	SENSIBLE
SMACNA	STEEL METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
TA	TRANSFER AIR
TC	TEMPERATURE CONTROL
TDH	TOTAL DYNAMIC HEAD
TS	TEMPERATURE SENSOR
TSV	TOTAL STATIC STRESS
VA	VARIABLE AIR VOLUME
VNT	VENTILATION
VTR	VENT THROUGH ROOF
VT	VENT THROUGH WALL
WFB	WET BULB
WFM	WATER FLOW MEASURING DEVICE

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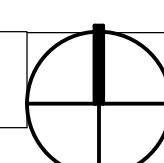
ARCHITECT OF RECORD
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Issue:	Contract Documents
Date:	August 20, 2026
Drawn by:	RAP
Checked by:	BRM
Designer:	JMM
Project Architect:	DEG

Sheet Number:

GM001



**SINCLAIR
HILL**
ARCHITECTS

Olsson

SHA Project Number: 25073

Design Team:

ARCHITECT OF RECC

Consultant Project #: 25073
Certificate of Authorization #: CQA-01289

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1. *Journal of Management Education* 2000; 24(1): 10-11

100

1. PROVIDE CONNECTION TO EXISTING FIRE PROTECTION STANDPIPE LOCATED IN CHASE NEAR STAIR. PROVIDE NEW FIRE PROTECTION PIPING, SPRINKLERS AND EQUIPMENT TO ALL AREAS OF SPACE OCCUPIED BY TENANT.
2. SERVE ROOM WITH SIDEWALL HEAD(S). IF ROOM IS TOO LARGE, ONLY BRANCH LINE/ARM-OVER PIPING SERVING SPRINKLERS WITHIN ROOM SHALL BE RUN OVER THIS ROOM (TYPICAL FOR ALL DATA AND ELECTRICAL ROOMS).
3. PROVIDE 24" x 24", 1-1/2 HR FIRE RATED ACCESS DOOR TO SERVICE FIRE SPRINKLER RISER.

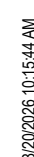
ZONE 1
WET-PIPE SYSTEM
8,112 SF

Issue:	Contract Documents
Date:	August 20, 2020
Drawn by:	RAF
Checked by:	BRM
Designer:	JMM
Project Architect:	DEG

Sheet Title:

Sheet Number:

FP101



- A. DO NOT ROUTE ITEMS OVER ELECTRICAL PANELS. PROVIDE 3" CLEARANCE IN FRONT OF ELECTRICAL PANELS AND DEVICES FROM FLOOR TO 6" OR TOP OF PANEL AS PER CODE REQUIREMENTS.
- B. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL. OFFER TO REQUIRE WHERE FEASIBLE. RUN PIPES UP IN JOIST SPACE WHERE INDICATED AND AS REQUIRED. COORDINATE WITH ELECTRICAL, FIRE SPRINKLER, AND HVAC CONTRACTORS PRIOR TO INSTALLATION. ALL VALVES AND OTHER MAINTENANCE ITEMS SHALL NOT BE INSTALLED HIGHER THAN 2 FEET ABOVE CEILINGS.
- C. LOCATE EQUIPMENT TO ALLOW ACCESS FOR ADJUSTMENT AND SERVICING. REFER TO INSTALLATION MANUALS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THESE DRAWINGS. LOCATE HANGING EQUIPMENT WITH THE SPREADER BAR MAINTAINED ABOVE AND ACCESS AREA BELOW IS FREE OF OBSTRUCTIONS INCLUDING PIPING, DUCTWORK, CONDUIT OR OTHER BUILDING ELEMENTS.
- D. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING PENETRATIONS THROUGH FIRE-RATED AND/OR SMOKE-RATED SEPARATORS. SEE SPECIFICATIONS REGARDING AND SMOKE RATED SEALANTS. COORDINATE WITH ARCHITECTURAL PLANS FOR RATED SEPARATION LOCATIONS.
- E. ALL VALVES TO BE INSTALLED IN ACCESSIBLE LOCATIONS.
- F. SANSITARY DRAIN PIPING 3" OR LARGER SHALL SLOPE AT A MINIMUM 1/8" PER FOOT. SANSITARY DRAIN PIPING 2 1/2" AND SMALLER SHALL SLOPE AT A MINIMUM OF 1/4" PER FOOT.
- G. ALL PIPING IN AREAS WITH CEILINGS TO BE INSTALLED CONCEALED FROM VIEW UNLESS NOTED OTHERWISE.
- H. REFER TO SANITARY AND VENT RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULES FOR PIPING AND VENTS NOT SHOWN.
- I. PROVIDE WATER HAMMER ARRESTORS ON EACH BRANCH PIPE SERVING A PLUMBING FIXTURE, OR FIXTURE GROUP, ACCORDING TO PDH-WH 201.
- J. PROVIDE ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.
- K. REFER TO M SHEETS FOR DETAILS, LEGEND, AND SCHEDULES.

1. PROVIDE 1/2" HOT WATER CONNECTION WITH ISOLATION VALVE FROM SINK S-1 HOT WATER SUPPLY TO DISHWASHER. ROUTE DISHWASHER WASTE PIPING UP ABOVE BOTTOM OF COUNTERTOP BEFORE CONNECTING TO SINK WASTE PIPING ABOVE P-TRAP OR TO GARBAGE DISPOSAL CONNECTION.
2. ROUTE PIPING TO NEAREST ACCESSIBLE COLD WATER PIPE SERVING RESTROOM. PROVIDE NEW TEE TO SERVE TENANT SPACE.
3. ROUTE SANITARY AND VENT PIPING TO NEAREST VABLE LOCATION IN RESTROOM.
4. SLOPE SANITARY PIPING AT A MINIMUM 1/4" PER FOOT.



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Issue: Contract Documents

Date: August 20, 2026

Drawn by: RAF

Checked by: BRM

Designer: JMN

Project Architect: DEC

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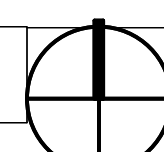
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Sheet Title:

PLUMBING PLANS

Sheet Number

P101



- A. DO NOT ROUTE ITEMS OVER ELECTRICAL PANELS. PROVIDE 3'-6" CLEARANCE IN FRONT OF ELECTRICAL PANELS AND DEVICES FROM FLOOR TO 6'-0" OF TOP OF PANEL AS PER CODE REQUIREMENTS.
- B. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL OFFSETS REQUIRED FOR A COMPLETE SYSTEM.
- C. UNLESS NOTED OTHERWISE, ALL DUCTWORK SHALL BE RUN AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE WHERE FEASIBLE. RUN DUCTS UP IN JOIST SPACE WHERE INDICATED AND AS REQUIRED, COORDINATE WITH ELECTRICAL, FIRE PROTECTION, AND PLUMBING CONTRACTORS PRIOR TO INSTALLATION. DAMPERS AND OTHER MAINTENANCE ITEMS SHALL NOT BE INSTALLED HIGHER THAN 2 FEET ABOVE CEILINGS.
- D. LOCATE EQUIPMENT TO ALLOW ACCESS FOR ADJUSTMENT AND SERVING. REFER TO INSTALLATION MANUALS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THESE DRAWINGS. LOCATE HANGING EQUIPMENT WITH THE SPACE FOR SERVICE MAINTENANCE AREA AROUND AND ACCESS AREA BELOW IS FREE OF OBSTRUCTIONS INCLUDING PIPING, DUCTWORK, CONDUIT OR OTHER BUILDING ELEMENTS.
- E. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING PENETRATIONS THROUGH FIRE RATED AND/OR SMOKE RATED PARTITIONS. SEE SPECIFICATIONS FOR FIRE AND SMOKE RATED SEALANTS. COORDINATE WITH ARCHITECTURAL PLANS FOR RATED SEPARATION LOCATIONS.
- F. DASHED LINES AROUND EQUIPMENT INDICATE MINIMUM REQUIRED SERVICE CLEARANCES. DO NOT INSTALL HVAC, PIPES, AND ELECTRICAL ITEMS IN THESE CLEARANCES.
- G. ALL DUCT FITTINGS WHERE TURN IS GREATER THAN 30 DEGREES SHALL BE PROVIDED WITH TURNING VANS EXCEPT TRANSFER AIR DUCTS. UNLESS NOTED OTHERWISE.
- H. ALL VAV BOXES SHALL HAVE A MINIMUM OF 36" STRAIGHT DUCT (NO TURNS OR DAMPERS) AT INLET TO VAV FOR ACCURATE AIR FLOW READINGS. THE SIZE OF THIS DUCT IS TO MATCH THE INLET BOX SIZE FOR LENGTH SHOWN ON DRAWING. IF BOX SIZE IS DIFFERENT THAN SCHEDULED, ADJUST DUCT SIZE TO MATCH.
- I. BALANCE MANUAL DAMPERS DIRECTLY BEFORE VAV BOXES SO THAT VAV DAMPER IS 80% OPEN AT FULL AIR FLOW TO ALLOW BETTER BOX CONTROL. DO NOT ADJUST MANUAL DAMPERS IF VAV DAMPER HAS A RANGE >80% TO FULL OPEN ADJUSTMENT.
- J. ALL SUPPLY AIR DEVICES SHALL BE INSTALLED WITH MANUAL BALANCING DAMPERS. DAMPER SHALL BE FITTED WITH QUADRANT CONTROL, WITH STAND-OFF TO EXTEND THRU INSULATION. DAMPERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
- K. NEW THERMOSTATS AND SENSORS SHALL BE LOCATED ON WALL NEAR TO CEILING. LOCATE ON WALL WITH CENTER AT 5'-6" FROM FINISH FLOOR. MATCHING LIGHT FLOOR SWITCH HEIGHT, UNLESS NOTED OTHERWISE.
- L. ALL CEILING MOUNTED DIFFUSERS SHALL HAVE A MINIMUM 2'-0" LENGTH OF FLEXIBLE DUCT FOR SOUND DAMPENING. DO NOT USE FLEX DUCT TO CHANGE DIRECTION.
- M. KEEP ALL DUCT OPENINGS AND AIR DEVICES COVERED AIR-TIGHT UNTIL READY FOR START-UP. ALL HVAC ACTIVITY HAS BEEN FINISHED AND EQUIPMENT IS READY FOR START-UP.
- N. DUCTWORK TO DIFFUSER SHALL MATCH DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.

1. EXISTING STRUCTURAL PENETRATION IN THIS AREA. ROUTE DUCTWORK THROUGH EXISTING PENETRATION. FIELD COORDINATE EXACT LOCATIONS AND HEIGHTS.
2. COVER DUCT OPENINGS WITH WIRE MESH.
3. TRANSFER AIR TO USE EXISTING TRANSFER PATHWAY THROUGH ROOM TO MECHANICAL ROOM.
4. COORDINATE DUCT OFFSETS WITH ALL OTHER TRADES. TRANSITION DUCTWORK AS REQUIRED TO MAXIMIZE CEILING HEIGHTS. UTILIZE 45° OFFSETS WHERE POSSIBLE.
5. SUPPORT LINEAR DIFFUSERS FROM STRUCTURE. BOTTOM OF LINEAR TO ALIGN WITH THE TOP OF WINDOW MULLION AT 8'-8" AFF.
6. THERMOSTAT TO BE SET AT 80° F.

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Drawn by:	RAF
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Designer:	JMM
Project Architect:	DEQ

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M101



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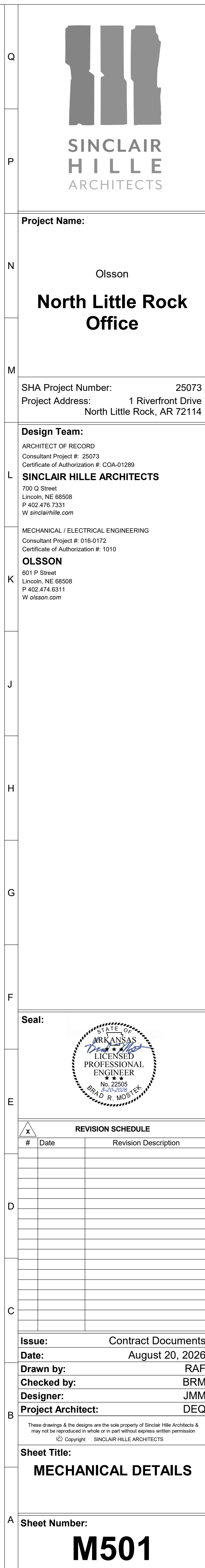
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REVISION SCHEDULE

#	Date	Revision Description
D		
C		





INTRODUCTION

	IDCM1	DOOR CONTROL MODULE		M	MOTION DETECTOR, CEILING MOUNTED
	ACP1	ACCESS CONTROL PANEL		M	MOTION DETECTOR, WALL MOUNTED
	ES	ELECTRIC DOOR STRIKER		P	EMERGENCY DOOR RELEASE BUTTON
	V	VIDEO CAMERA, WITH MOUNTING HARDWARE		PB	PANIC BUTTON
	VM	VIDEO MONITOR		S	SECURITY BUZZER HORN
	VR	VIDEO RECORDER		IS	INTERCOM SUBSTATION
	ML	ELECTRIC MAGNETIC LOCK		ISC	INTERCOM SUBSTATION WITH CAMERA
	CL	ELECTRIC CYLINDER LOCK		IM	INTERCOM MASTER STATION
	CR	CARD READER		G	GLASS BREAK SENSOR
	REX	REQUEST TO EXIT		PH	POWER TRANSFER HINGE
	DC	DOOR CONTACT - RECESSED			
	DS	DOOR CONTACT - SURFACE MOUNT			

NO	NORMALLY OPEN				
NTS	NOT TO SCALE				
OC	ON CENTER				
OFC	OWNER FURNISHED CONTRACTOR				
OFI	INSTALLED				
OFOW	OWNER FURNISHED OWNER INSTALLED				
PEMB	PRE-ENGINEERED METAL BUILDING				
PH	PHASE				
PLBG	PLUMBING				
RCP	REFLECTED CEILING PLAN				
REF	REFERENCE				
REV	REVISION(S)				
RPM	REVOLUTIONS PER MINUTE				
SCCR	SHORT CIRCUIT CURRENT RATING				
SHT	SHEET				
SPEC	SPECIFICATIONS				
SS	STAINLESS STEEL				
STR	STRUCTURAL (STRUCTURE)				
TC	TIME CLOCK				
TOP	TEMPERATURE CONTROL PANEL				
TEMP	TEMPERATURE				
TP	TYPICAL				
UG	UNDERGROUND				
UL	UNDERWRITERS LABORATORIES				
UNO	UNLESS NOTED OTHERWISE				
V	VOLTAGE (VOLTS)				
VFC	VARIABLE FREQUENCY CONTROLLER				
VFD	VARIABLE FREQUENCY DRIVE				
W	WATT				
°F	DEGREES FAHRENHEIT				
Ø	DIAMETER				
Φ	PHASE				

COMMUNICATIONS CABLING LEGEND NOTES:

1. PROVIDE QUANTITY OF CABLES AS SHOWN IN SCHEDULE UNLESS OTHERWISE NOTED IN PLANS BY A NUMBER MODIFIER ADJACENT TO THE SYMBOL.
2. PROVIDE JACK COLOR AT THE HORIZONTAL CROSS CONNECT (TR) END AS SHOWN IN THE SCHEDULE.
3. JACK COLOR AT THE WORK AREA OR DEVICE/EQUIPMENT END OF THE CABLE SHALL MATCH THE COLOR OF THE FACEPLATE. PROVIDE WHITE JACKS FOR WHITE FACEPLATES, GREY JACKS FOR STAINLESS STEEL FACEPLATES AND BLACK JACKS FOR BLACK FACEPLATES.

LIGHTING CONTROL DEVICE LEGEND	
SYMBOL	DESCRIPTION
	ON/OFF
	1-POLE, ON/OFF, INTEGRAL SENSOR
	1-POLE, ON/OFF, DIM MIN TO MAX, INTEGRAL SENSOR
	1-POLE, ON/OFF, DIM MIN TO MAX
	2-SCENE
	2-POLE, ON/OFF, DIM MIN TO MAX
	4-SCENE
	4-POLE, ON/OFF, DIM MIN TO MAX
	4-SCENE, ON/OFF, DIM MIN TO MAX
	SMALL SINGLE-GANG TOUCH SCREEN
	LARGE 7" TOUCH SCREEN

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GENERAL SYSTEMS NOTES

- A. ALL DEVICES SHOWN SHALL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
- B. NO BOXES SHALL BE MOUNTED BACK TO BACK.
- C. ALL CONDUITS FOR VOICE OR DATA RECEPTACLES SHALL BE STUBBED TO AN ACCESSIBLE CEILING SPACE.
- D. ALL CONDUIT PROVIDED FOR VOICE OR DATA ROUGH-IN SHALL BE A MINIMUM OF 1-1/4" EMT.
- E. ALL RACEWAYS ROUTED THROUGH WALLS SHALL BE SEALED AS REQUIRED BY NEC PARAGRAPHS 230.8, 300.5(G) AND 300.7(A).
- F. RACEWAY, JUNCTION BOX, PULL BOX, AND OTHER OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING U.L. LISTED FIRE AND OR SMOKE STOPPING ASSEMBLIES TO MAINTAIN THE FIRE-RESISTANCE RATING OF THE WALL.
- G. ALL NEW FIRE ALARM DEVICES SHALL MATCH EXISTING AND SHALL BE CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL.
- H. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH CABINET AND ROOM LAYOUTS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS.
- I. PROVIDE ALL CONDUIT SLEEVES AND FIRE RATED SLEEVES AS REQUIRED FOR ROUTING OF COMMUNICATIONS AND SECURITY CABLING. SLEEVE LOCATIONS AND SIZES ARE APPROXIMATE. COORDINATE FINAL SLEEVE PLACEMENT AND SIZES WITH THE DIV. 27 CABLING CONTRACTOR BASED ON FINAL CABLE ROUTING.
- J. FIRE ALARM CABLING AND EQUIPMENT CONTROL WIRING ASSOCIATED WITH FIRE ALARM SYSTEM SHALL BE INSTALLED IN A DEDICATED RACEWAY SYSTEM. THIS SYSTEM SHALL NOT BE USED FOR ANY OTHER WIRE OR CABLE.
- K. COORDINATE ROUTING OF CONDUIT ALONG THE EXTERIOR WALLS WITH LINEAR DIFFUSER LOCATIONS.
- L. ALL CONDUITS IN OPEN OFFICE AREAS SHALL BE PAINTED TO MATCH CEILING SURFACE.
- M. FIRE ALARM CONTRACTOR IS TO COORDINATE WITH DOOR HARDWARE SUPPLIER FOR DOOR LOCATIONS REQUIRING DELAYED EGRESS FIRE ALARM RELAYS.
- N. SMOKE OR FIRE/SMOKE DAMPERS: PROVIDE CONNECTION TO FIRE ALARM SYSTEM. PROVIDE A FA RELAY AND DUCT DETECTOR WITH REMOTE INDICATOR LAMP AND TEST SWITCH FOR ACTUATION OF EACH DAMPER SHOWN ON MECHANICAL DRAWINGS. COORDINATE DETECTION MAY BE UTILIZED IN LIEU OF DUCT DETECTOR IF APPLICABLE. DETECTION AND ACTUATION SHALL BE COMPLIANT WITH IBC 2018 FOR EACH DAMPER SHOWN ON MECHANICAL DRAWINGS.
- O. PROVIDE RELAY(S) FOR FAN SHUTDOWN OF MECHANICAL EQUIPMENT WITHIN 3FT OF EACH MECHANICAL UNIT FOR ALL DUCT DETECTORS (REFER TO MECHANICAL PLANS FOR EQUIPMENT LOCATIONS). COORDINATE EFFORT WITH DIVISION 23.
- P. VELCRO STRAPS SHALL BE UTILIZED FOR CABLE BUNDLING. CABLE TIES OR ZIP TIES SHALL NOT BE USED.
- Q. LOW VOLTAGE CABLING SHALL NOT BE PAINTED. CABLING THAT HAS BEEN PAINTED WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- R. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF NFPA 70 (NEC), ALL APPLICABLE LOCALLY ADOPTED BUILDING, AND ENERGY CODES.
- S. CONDUIT CONNECTORS AND COUPLINGS SHALL BE COMPRESSION TYPE. SET SCREW TYPE CONDUIT FITTINGS SHALL NOT BE ALLOWED. THIS APPLIES TO BOTH POWER AND LIGHTING.

GENERAL POWER NOTES

- A. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL WIRING DEVICES WITH CABINET AND ROOM LAYOUTS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS.
- B. ALL CONDUIT THAT IS LEFT EMPTY SHALL INCLUDE A PULL STRING THROUGHOUT LENGTH AND 12" ADDITIONAL AT EACH END.
- C. CONCEAL ALL CONDUCTORS IN WALLS AND ABOVE CEILING.
- D. PROVIDE DEDICATED NEUTRAL AND GROUNDING CONDUCTORS FOR EACH CIRCUIT.
- E. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF NFPA 70 (NEC), ALL APPLICABLE LOCALLY ADOPTED BUILDING, AND ENERGY CODES.
- F. COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT PRIOR TO ROUGH-IN. THIS INCLUDES, BUT NOT LIMITED TO, MECHANICAL EQUIPMENT, FIRE ALARM EQUIPMENT, ETC. THE ELECTRICAL CONTRACTOR OR SHALL PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR THE EQUIPMENT AND SHALL MAKE THE FINAL CONNECTION TO THE EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY EQUIPMENT THAT REQUIRES AN INTEGRAL CORD AND PLUG IF NOT PROVIDED WITH THE EQUIPMENT.
- G. PRESERVE THE FIRE RATING OF ANY FIRE-RATED WALL, CEILING OR FLOOR BY PROVIDING A UL LISTED FIRE-RATED ASSEMBLY. COORDINATE FIRE-RATED WALL, CEILING, OR FLOOR ASSEMBLY LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- H. ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. 120V RECEPTACLES RATED 15 OR 20 AMPS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A "WHILE-IN-USE" COVER WHERE THEY ARE LOCATED IN DAMP OR WET LOCATIONS.
- I. MINIMUM BRANCH CONDUCTOR SIZE SHALL BE #12 AWG AND MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH. PROVIDE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN WITH ALL CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC, #12 AWG MINIMUM.
- J. ALL MOUNTING HEIGHTS ARE MEASURED TO CENTER OF DEVICE. COORDINATE WITH ARCHITECTURAL PLANS AND ELECTRICAL LEGENDS.
- K. COVERPLATES OF JUNCTION BOXES SHALL BE LABELED TO INDICATE THE CIRCUIT(S) ENCLOSED WITHIN THE JUNCTION BOX.
- L. CONDUIT CONNECTORS AND COUPLINGS SHALL BE COMPRESSION TYPE. SET SCREW TYPE CONDUIT FITTINGS SHALL NOT BE ALLOWED. THIS APPLIES TO BOTH POWER AND LIGHTING.
- M. COORDINATE ROUTING OF CONDUIT ALONG THE EXTERIOR WALLS WITH LINEAR DIFFUSER LOCATIONS.
- N. ALL CONDUITS IN OPEN OFFICE AREAS WITH EXPOSED CEILINGS SHALL BE PAINTED TO MATCH CEILING SURFACE.
- O. NO BOXES SHALL BE MOUNTED BACK TO BACK.
- P. SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET **5601** FOR ELECTRICAL CONNECTION REQUIREMENTS FOR EACH PIECE OF MECHANICAL EQUIPMENT TAGGED ON POWER MECHANICAL EQUIPMENT PLAN, SHEET **5602**.
- Q. #12 AWG SHALL BE USED AS A STANDARD 120V CIRCUIT. WHERE A CIRCUIT EXCEEDS 75' #10 AWG SHALL BE USED. WHERE A CIRCUIT EXCEEDS 125' #8 AWG SHALL BE USED FOR FIRST 75' MINIMUM.
- R. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SYSTEMS FURNITURE LOCATIONS WITH PLAIN SYSTEMS PLAN PRIOR TO ROUGH-IN TO AVOID POTENTIAL CONFLICTS WITH FURNITURE AND WALL MOUNTED FURNITURE SUPPORTS, AND TO IDENTIFY ANY UNIQUE SYSTEMS FURNITURE POWER, LIGHTING AND DATA REQUIREMENTS.
- S. CEILING MOUNTED DEVICES SHALL BE CENTERED IN CEILING TILE WHERE INSTALLED IN ACOUSTICAL TILE CEILING.
- T. THE DIRECTORY IN EACH PANEL SHALL BE TYPED AND FILLED OUT AS PANEL SCHEDULE DICTATES WITH EXACTLY WHAT EACH CIRCUIT IS SERVING.
- U. SEE BRANCH POWER SCHEDULE FOR FEEDER SIZES REQUIRED FOR CORRESPONDING BREAKER SIZE INDICATED IN PANEL SCHEDULES AND DRAWINGS.
- V. ALL RACEWAYS ROUTED THROUGH WALL SHALL BE SEALED AS REQUIRED BY NEC PARAGRAPHS 230.8, 300.5(G) AND 300.7(A).
- W. ALL DEVICES SHOWN SHALL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
- X. FURNISH AND INSTALL OUTLETS AND SWITCHES WHERE SHOWN OR REQUIRED. MINOR CHANGES RELATIVE TO THE LOCATION OF ELECTRICAL EQUIPMENT MAY BE MADE BY THIS CONTRACTOR TO COMPLY WITH STRUCTURAL, AND BUILDING REQUIREMENTS AS DETERMINED IN THE COURSE OF CONSTRUCTION. ALL OUTLETS AND SWITCHES MUST BE OF THE SAME MANUFACTURER AND NOT MIXED ON THE PROJECT. DEVICE AND COVER PLATE COLOR IS TO BE STANDARD WHITE IN ALL LOCATION WITH THE EXCEPTION OF THE FOLLOWING AREAS. DEVICES LOCATED ON DARK GREEN FELT WALLS ARE TO BE BLACK. DEVICES LOCATED ON LIGHT GREY AND CHARCOAL FELT WALLS ARE TO BE GREY. DEVICES LOCATED ON EBONY PANELS ARE TO BE BLACK. DEVICES LOCATED IN MECHANICAL SPACES ARE TO BE GREY. COORDINATE SPECIFIC WIRING DEVICE COLOR WITH ARCHITECTURAL FINISH SCHEDULE.
- Y. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUITS ARE TO BE ROUTED CONCEALED. COORDINATE INSTALLATION WITH EXISTING CONDITIONS, INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.
- Z. WHERE A MECHANICAL RETURN AIR PLENUM SYSTEM IS PRESENT, ALL EQUIPMENT AND MATERIALS PROVIDED WITHIN THE PLENUM CEILING RETURN MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN CEILINGS. UNLESS OTHERWISE NOTED, METAL HOUSINGS ON LUMINAIRES ARE ACCEPTABLE WITHIN THE PLENUM AND SHALL NOT REQUIRE ENHANCED PLENUM RATINGS.
- AA. WHERE FLEXIBLE METALLIC CONDUIT (FMC) IS ALLOWED BY THESE CONTRACT DOCUMENTS AND LOCAL BUILDING CODES, LENGTH SHALL NOT EXCEED 6FT.
- BB. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVES THROUGH WALLS AND FLOORS TO ALLOW FOR THE ROUTING OF TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS CABLING. REVIEW ROUTING WITH LOW VOLTAGE CONTRACTOR FOR SLEEVE LOCATIONS AND REQUIREMENTS.
- CC. MECHANICAL CONTROLS SHALL BE INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAYS AND BOXES ASSOCIATED WITH MECHANICAL CONTROLS. FOR EACH THERMOSTAT PROVIDE JUNCTION BOX WITH ONE (1) 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE ADDITIONAL 3/4" CONDUIT FROM EACH TEMPERATURE CONTROL CABINET TO NEAREST CORRIDOR CABLE TRAY WHERE APPLICABLE, OR TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING. REFER TO MECHANICAL FLOOR PLANS FOR ALL WALL CONTROL LOCATIONS AND QUANTITIES.
- DD. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHT AND LOCATION WHERE DEVICE IS TO BE INSTALLED IN CASEWORK. BACK-TO-BACK MOUNTING OF DEVICES IS NOT ACCEPTABLE IN A STANDARD 3-5/8" STUD WALL.
- EE. ALL 120V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY 3-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE FOLLOWING LOCATIONS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL:
- a. BATHROOMS AND RESTROOMS
 - b. KITCHENS
 - c. ROOFTOPS
 - d. OUTDOORS
 - e. RECEPTACLES WITHIN 6FT OF A SINK
 - f. INDOOR DAMP AND WET LOCATIONS
 - g. OTHER LOCATIONS AS REQUIRED BY NEC 210.8
- GG. PROVIDE 120V POWER TO ALL SMOKE AND FIRE/SMOKE DAMPERS. SOURCE POWER FROM DEDICATED 120V 20A BRANCH CIRCUIT(S) IN NEAREST 200A PANELBOARD SERVING AREA, REFER TO RECEPTACLE BRANCH CIRCUITING IN AREA FOR APPROPRIATE PANELBOARD SOURCE. DAMPERS MAY SHARE COMMON BRANCH CIRCUIT WHERE LOCATED IN COMMON AIR HANDLING UNIT ZONE. EACH BRANCH CIRCUIT SHALL SERVE A MAXIMUM OF 20 DAMPERS. REFER TO MECHANICAL PLANS FOR AIR HANDLING UNIT ZONES AND DAMPER LOCATIONS. CONTROL EACH DAMPER WITH DEDICATED ADDRESSABLE CONTROL MODULE FROM FIRE ALARM SYSTEM. PROVIDE A SYSTEM DUCT SMOKE DETECTOR WITHIN 3FT OF EACH DAMPER. LOCATE IN ACCESSIBLE LOCATION WITH A REMOTE STATUS INDICATOR AND TEST STATION IN CEILING AT DETECTOR LOCATION. COORDINATE EXACT LOCATION OF TEST STATION WITH OWNER PRIOR TO INSTALLATION.

GENERAL LIGHTING NOTES

- A. COORDINATE LIGHT FIXTURE LAYOUT WITH HVAC DUCTWORK/DIFFUSERS AND REFLECTED CEILING PLAN.
- B. CONCEAL ALL CONDUCTORS IN WALLS AND ABOVE CEILING WHERE POSSIBLE.
- C. COVERPLATES OF JUNCTION BOXES SHALL BE LABELED TO INDICATE THE CIRCUIT(S) ENCLOSED WITHIN THE JUNCTION BOX.
- D. TIME DELAY ON ALL SENSORS SHALL BE SET TO 20 MINUTES UNLESS OTHERWISE NOTED.
- E. LOCATE OCCUPANCY SENSORS A MINIMUM OF 4'-0" FROM MECHANICAL DIFFUSERS. COORDINATE LOCATION WITH OCCUPANCY SENSOR MANUFACTURER TO PROVIDE ADEQUATE COVERAGE.
- F. REFER TO DETAILS ON SHEET **5501** FOR LOW VOLTAGE SWITCH, SENSOR TYPES AND WIRING DIAGRAMS.
- G. PROVIDE CAT 5E CABLING (PRETERMINATED WHERE POSSIBLE) CREATING A NETWORK BETWEEN POWERPACKS, LOW VOLTAGE SWITCHES, OCCUPANCY SENSORS, AND BRIGES. PROVIDE ALL COMPONENTS FOR A COMPLETE AND OPERATIONAL LIGHTING CONTROL SYSTEM. ALL POWERPACKS SHALL BE DIMMING. POWERPACKS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS AND LABELED WITH THE AREA IT SERVES.
- H. VELCRO STRAPS SHALL BE UTILIZED FOR CABLE BUNDLING. CABLE TIES OR ZIP TIES SHALL NOT BE USED.
- I. LOW VOLTAGE CABLING SHALL NOT BE PAINTED. CABLING THAT HAS BEEN PAINTED WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- J. CIRCUITS SERVING EMERGENCY LIGHTING EQUIPMENT SUCH AS EMERGENCY BATTERIES SHALL NOT SHARE A NEUTRAL. SHALL NOT BE PART OF A MULTIWIRE BRANCH CIRCUIT WITH ANY OTHER CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EVERY CIRCUIT THAT SERVES EMERGENCY LIGHTING EQUIPMENT.
- K. CONDUIT CONNECTIONS AND COUPLINGS SHALL BE COMPRESSION.
- L. OCCUPANCY SENSORS INSTALLED IN EXPOSED STRUCTURE AREAS SHALL BE MOUNTED TO A 4" SQUARE BOX WITH DOUBLE MUD RING MOUNTED BELOW DUCTWORK. PROVIDE UNISTRUT OR CONDUIT PENDANT AS REQUIRED. SHOW EXAMPLE MOCK-UP TO ENGINEER FOR APPROVAL.
- M. ALL CONDUITS IN OPEN OFFICE AREAS WITH EXPOSED CEILINGS SHALL BE PAINTED TO MATCH CEILING SURFACE.
- N. EXIT SIGNS SHALL BE ILLUMINATED 24 HOURS. SERVE FROM UNSWITCHED CIRCUIT FROM CENTRAL BATTERY INVERTER SYSTEM. LIGHT FIXTURES DESIGNATED AS "EM" SHALL BE CONTROLLED WITH NORMAL SOURCE LIGHT FIXTURES WITHIN COMMON SPACE. PROVIDE UL 924 EMERGENCY LIGHTING CONTROL, RELAYS FOR EACH SPACE FOR EMERGENCY LIGHTING OVERRIDE. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR INSTALLATION INSTRUCTIONS.
- O. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELEVATIONS, AND SECTIONS FOR ADDITIONAL INFORMATION.
- P. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS AND DIMENSIONS OF ALL CEILING MOUNTED DEVICES. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- Q. SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.
- R. PROVIDE ENCLOSURES AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIAL, THERMAL INSULATION, ETC. AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- S. EXIT SIGNS SHALL BE CEILING-MOUNTED UNLESS INDICATED OTHERWISE. WHERE WALL-MOUNTED EXIT SIGNS ARE INDICATED ABOVE A DOOR OR TO THE SIDE OF A CORRIDOR, THE EXIT SIGN SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGN 6 INCHES ABOVE THE TOP OF THE DOOR FRAME.
- T. IN ALL ELECTRICAL, COMMUNICATIONS, AND MECHANICAL UTILITY ROOMS COORDINATE LOCATION OF LIGHT FIXTURES WITH EQUIPMENT PRIOR TO INSTALLATION.
- U. CEILING MOUNTED DEVICES SHALL BE CENTERED IN CEILING TILE WHERE INSTALLED IN ACOUSTICAL TILE CEILING.
- V. ALL RACEWAYS ROUTED THROUGH WALL SHALL BE SEALED AS REQUIRED BY NEC PARAGRAPHS 230.8, 300.5(G) AND 300.7(A).
- W. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF NFPA 70 (NEC), ALL APPLICABLE LOCALLY ADOPTED BUILDING, AND ENERGY CODES.

LIGHTING CONTROL SYSTEM
BASIS OF DESIGN

- A. BASIS OF DESIGN FOR THE OVERALL LIGHTING CONTROL SYSTEM SHALL BE THE NIGHT WIRED NETWORKED LIGHTING CONTROLS PLATFORM WITH LIGHTING CONTROL CONFORMING TO 2018 IECC.
- B. PROVIDE NIGHT BUILDING CONTROLS SOFTWARE, MANUFACTURER STARTUP, AND TRAINING FOR OWNER.
- C. SEE SPECIFICATIONS, SCHEDULES, DETAILS FOR ADDITIONAL INFORMATION.
- D. LIGHTING CONTROL DEVICES (LINE VOLTAGE AND LOW VOLTAGE) ARE INDICATED WITHOUT CONNECTION TO FIXTURE(S) BEING CONTROLLED. UNLESS OTHERWISE INDICATED, CONNECT CONTROL DEVICE TO SERVE LIGHT FIXTURE(S) LOCATED WITHIN SAME SPACE AS CONTROL DEVICE. WHERE LIGHT FIXTURES ARE INDICATED WITH A SUBSCRIPT ('a', 'b', 'c', etc.) LETTER INDICATING LIGHTING CONTROL ZONES, CONTROL DEVICE SERVING SPACE WITH MATCHING SUBSCRIPT SHALL CONTROL CORRESPONDING LIGHT FIXTURES.
- E. CONNECT ALL NETWORK CONTROL DEVICES PER MANUFACTURER'S INSTRUCTIONS. CONNECT FIXTURES SERVED BY DIMMING POWER PACKS VIA 0-10V CONTROL WIRING IN 3/4" CONDUIT SEPARATE FROM LINE VOLTAGE WIRING. IT IS ACCEPTABLE FOR 0-10V WIRING TO SHARE THE SAME CONDUIT AS LINE VOLTAGE SO LONG THAT IT IS PROVIDED WITH CLASS 1 (600V) TYPE INSULATION.
- F. PROVIDE ALL SWITCHES, SENSORS, LOAD CONTROLLERS, SYSTEM INTERFACES, AND ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION.
- G. PROVIDE COMMISSIONING OF LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH LOCALLY ADOPTED ENERGY CODE AND AHJ REQUIREMENTS. PROVIDE FUNCTIONAL PERFORMANCE TESTING OF LIGHTING CONTROL SYSTEM TO ENSURE ALL COMPONENTS, BOTH HARDWARE AND SOFTWARE, ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.
- H. A REGISTERED DESIGN PROFESSIONAL PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEM HAS BEEN TESTED TO MEET ALL REQUIREMENTS OF 2018 IECC SECTION C408.3 FUNCTIONAL TESTING OF LIGHTING CONTROLS.



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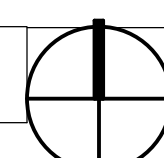
Project Architect: DEQ

Sheet Title:

GENERAL ELECTRICAL
INFORMATION

Sheet Number:

GE002



A. SEE GE SERIES SHEETS FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

B. LIGHT FIXTURES DESIGNATED AS "EM" SHALL BE SERVED FROM CENTRAL BATTERY INVERTER CIRCUIT AS NOTED. REFER TO GENERAL LIGHTING NOTE "N" ON SHEET **GE002** FOR ADDITIONAL INFORMATION.

1. EMERGENCY LIGHTING INVERTER. SEE EMERGENCY LIGHTING INVERTER SCHEDULE, SHEET **B001** FOR MORE INFORMATION. COORDINATE FINAL MOUNTING LOCATION WITH LOW VOLTAGE INSTALLERS PRIOR TO ROUGH. SO AS NOT TO INTERFERE WITH DATA RACK INSTALLATION IN SAME ROOM.
2. RECESS MOUNT TAPE LIGHT AND CHANDLER UNDER CABINET. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
3. CIRCUIT TO SPARE 20A, IF CIRCUIT BREAKER IS EXISTING. 277/480V PANEL LOCATED IN 4TH FLOOR ELECTRICAL ROOM AS SHOWN.
4. PROVIDE THE FOLLOWING ZONE GROUPINGS AND ENGRAVINGS FOR LIGHTING CONTROL. PUSHTON/TOUCHSCREEN INTERFACE.
 - CHANNEL #1: ZONES aa-c "ALL OFF/ON"
 - CHANNEL #2: ZONES aa-ag "NORTH"
 - CHANNEL #3: ZONES aa-ag "SOUTH EAST"
 - CHANNEL #4: ZONES ca-c "SOUTH"
5. LIMIT AREA OF CONSTRUCTION, ANY WORK OUTSIDE THIS AREA IS TO BE COORDINATED WITH OWNER PRIOR TO COMMENCING WORK.
6. PROVIDE NETWORKED LIGHTING CONTROL. SYSTEM CONTROLLER LCP-1 BY NEMA 1 ENCLOSURE WITH TOUCHSCREEN INTERFACE.

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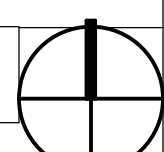
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ENGINEER
No. 12584
8/2026
TIMOTHY W. DANNER

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Checked by:	TWD
Designer:	RR
Project Architect:	DEC

LIGHTING PLAN

E101

 **SHEET KEYNOTES**

- ## KEYNOTE SHEETS
1. THIS RECEPTACLE SHALL BE PROTECTED BY GFCI BREAKER. PROVIDE A NEW 20A, 1P GFCI PROTECTED CIRCUIT BREAKER IN EXISTING 120/208V PANEL LOCATED IN 4TH FLOOR ELECTRICAL ROOM.
2. POWER CONNECTION TO OFFICE FURNITURE VIA RECESSED WALL JUNCTION BOX SHALL BE PROVIDED TO ALLOW FURNITURE TO FUNCTION, PROVIDING WHIPS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. EACH GROUP OF 3-20 CIRCUITS SERVING FURNITURE FEEDS SHALL BE PROVIDED WITH HAND IN PANEL BOARD LUGS. CIRCUITS TOGETHER TO ALLOW ALL CIRCUITS TO BE SWITCHED ON/OFF AT SAME TIME.
3. PROVIDE TWO HORIZONTAL DUCT RECEPTACLES MOUNTED IN TOP EDGE OF TV BACKBAY AT EACH TV MONITOR LOCATION. SEE ASSOCIATED REFERENCE ROOM ELEVATION AND BACKBAY BACK DETAILS ON SHEET **5501** FOR DUCT PLANTING LOCATION AND CONNECTIONS.
4. RECEPTACLES SHOWN AT RECEPTION DESK ARE TO BE MOUNTED BELOW THE COUNTER. COORDINATE INSTALLATION WITH CUSTOM CASEWORK INSTALLERS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.
5. PROVIDE A COMBINATION POWERDATA/AV POKE THROUGH FLOOR POWER AND DATA COVER PLATE. POWER FEED THROUGH DATA NATIONALS AND AV CABLEING FEED THROUGH: PROVIDE ONE (1) 3/4" CONDUIT FOR POWER AND ONE (1) 1" CONDUIT FOR DATA AND ONE (1) 1" FOR AV. CONDUIT SHALL BE ROUTED UNDERFLOOR AS SHOWN AND ROUTED TO ACCESSIBLE CLOSET OR CABLE TRAY WITH INFORMATION ON DATA. CONDUIT ROUTING REQUIREMENTS. SEE FLOOR BOX SCHEDULE, SHEET **5501** FOR ADDITIONAL INFORMATION.
6. PROVIDE A COMBINATION POWERDATA/AV POKE THROUGH FURNITURE FEED FLOOR ASSEMBLY. POWER DATA COVER PLATE. POWER FEED THROUGH DATA NATIONALS AND AV CABLEING FEED THROUGH: PROVIDE ONE (1) 3/4" CONDUIT FOR POWER AND ONE (1) 1" CONDUIT FOR DATA. CONDUIT SHALL BE ROUTED UNDERFLOOR AS SHOWN AND ROUTED TO ACCESSIBLE CLOSET OR CABLE TRAY WITH INFORMATION ON DATA. CONDUIT ROUTING REQUIREMENTS. SEE FLOOR BOX SCHEDULE, SHEET **5501** FOR ADDITIONAL INFORMATION. GROUNDING SHALL BE PROVIDED WITH HAND IN PANEL BOARD LINKING CIRCUITS TOGETHER TO ALLOW ALL CIRCUITS TO BE SWITCHED ON/OFF AT SAME TIME.
7. LIMIT AREA OF CONSTRUCTION, ANY WORK OUTSIDE THIS AREA IS TO BE COORDINATED WITH OWNER PRIOR TO COMMENCING WORK.
8. CIRCUIT TO SPARE 20A, 1P CIRCUIT BREAKER IN EXISTING 120/208V, 225 AMP PANEL "P" LOCATED IN 4TH FLOOR ELECTRICAL ROOM.



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Project Architect:	DEC
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Sheet Title:

POWER PLAN

Sheet Number:

E201

- A. SEE GE SERIES SHEETS FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET **E601** FOR ELECTRICAL CONNECTION REQUIREMENTS FOR EACH PIECE OF MECHANICAL EQUIPMENT TAGGED ON POWER PLANS.

1. LIMIT AREA OF CONSTRUCTION. ANY WORK OUTSIDE THIS AREA IS TO BE COORDINATED WITH OWNER PRIOR TO COMMENCING WORK.

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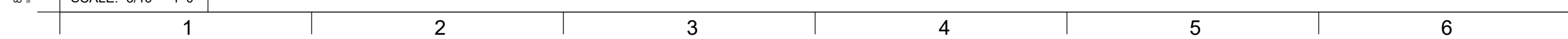
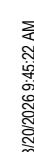
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Designer:	RRR
Project Architect:	DEQ

POWER MECHANICAL EQUIPMENT PLAN

E202



A. SEE GE SERIES SHEETS FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

1. LIMIT AREA OF CONSTRUCTION. ANY WORK OUTSIDE THIS AREA IS TO BE COORDINATED WITH OWNER PRIOR TO COMMENCING WORK.
2. DATA/TELEPHONE CONNECTION TO OFFICE FURNITURE SYSTEM VIA WALL MOUNTED JUNCTION BOXES. DATA JUNCTION BOX SHALL BE "4X4X1/2" DEEP JUNCTION BOX WITH 2-GANG MUD RING. PROVIDE 1-1/2" C/C. FOR COMMUNICATION CABLEING, STUBBED ABOVE ACCESSIBLE CEILING TO STRUCTURE.
3. ROOM SCHEDULER. PROVIDE "4X4X1/2" DEEP JUNCTION BOX WITH HORIZONTAL MOUNTED 1-GANG MUD RING AT 4' AFF WITH 3/4" C/C. ROUTED TO ABOVE ACCESSIBLE CEILING. PROVIDE A SINGLE CAT-6A CABLE TO NEAREST TELECOMMUNICATIONS CLOSET. COORDINATE FINAL ROUGH-IN LOCATION AND HEIGHT WITH OWNERS AV CONTRACTOR.
4. COMBINATION DATA AND POWER FLOOR BOX LOCATION. REFER TO FLOOR BOX SCHEDULE IN ELECTRICAL PLANS FOR DETAILS.
5. OFCI WIRELESS ACCESS POINT TO BE MOUNTED WITHIN DROP CEILING. REFER TO SYSTEMS DETAILS FOR ROUGH-IN REQUIREMENTS.
6. OFCI WIRELESS ACCESS POINT TO BE MOUNTED TO SOLID CEILING. REFER TO SYSTEMS DETAILS FOR MORE INFORMATION.
7. PROVIDE ONE (1) 1/4" CONDUIT FROM FLOOR BOX TO TV WALL BOX. ROUTE (1) 1/4" CONDUIT FROM TV WALL BOX TO ABOVE ACCESSIBLE CEILING. REFER TO FLOOR BOX SCHEDULE ON **B001** FOR ADDITIONAL INFORMATION.



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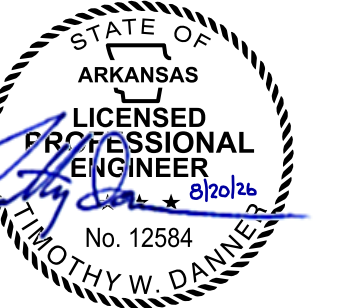
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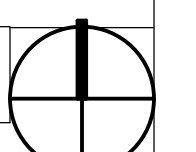
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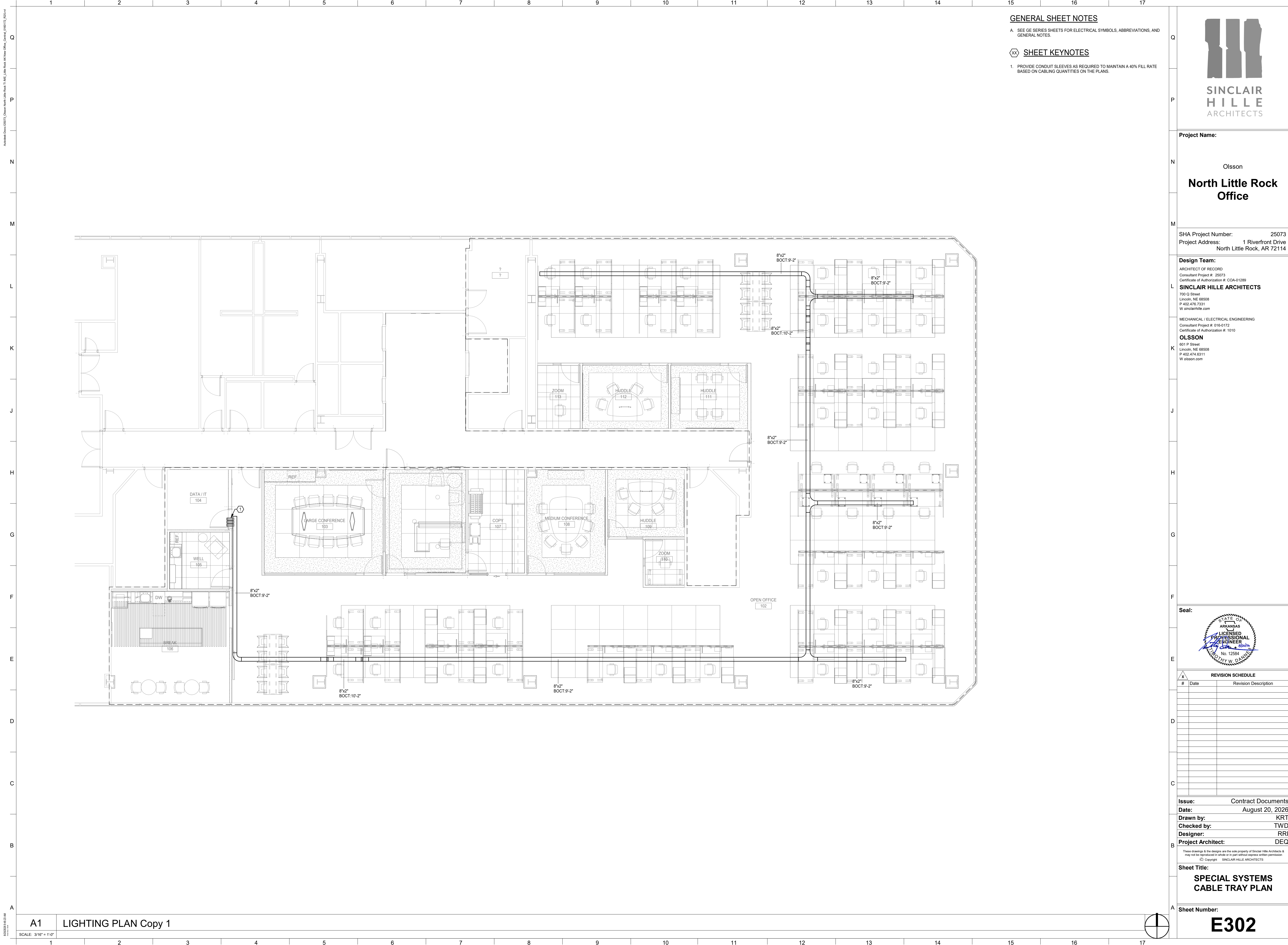
Sheet Title:
SPECIAL SYSTEMS PLAN

Sheet Number:

E301



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Sheet Title: LIGHTING PLAN Copy 1



GENERAL SHEET NOTES

A. SEE GE SERIES SHEETS FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

SHEET KEYNOTES

1. PROVIDE CONDUIT SLEEVES AS REQUIRED TO MAINTAIN A 40% FILL RATE BASED ON CABLING QUANTITIES ON THE PLANS.



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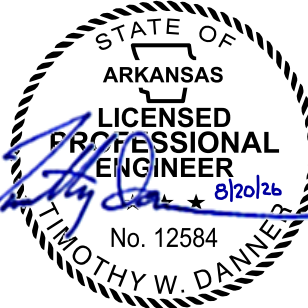
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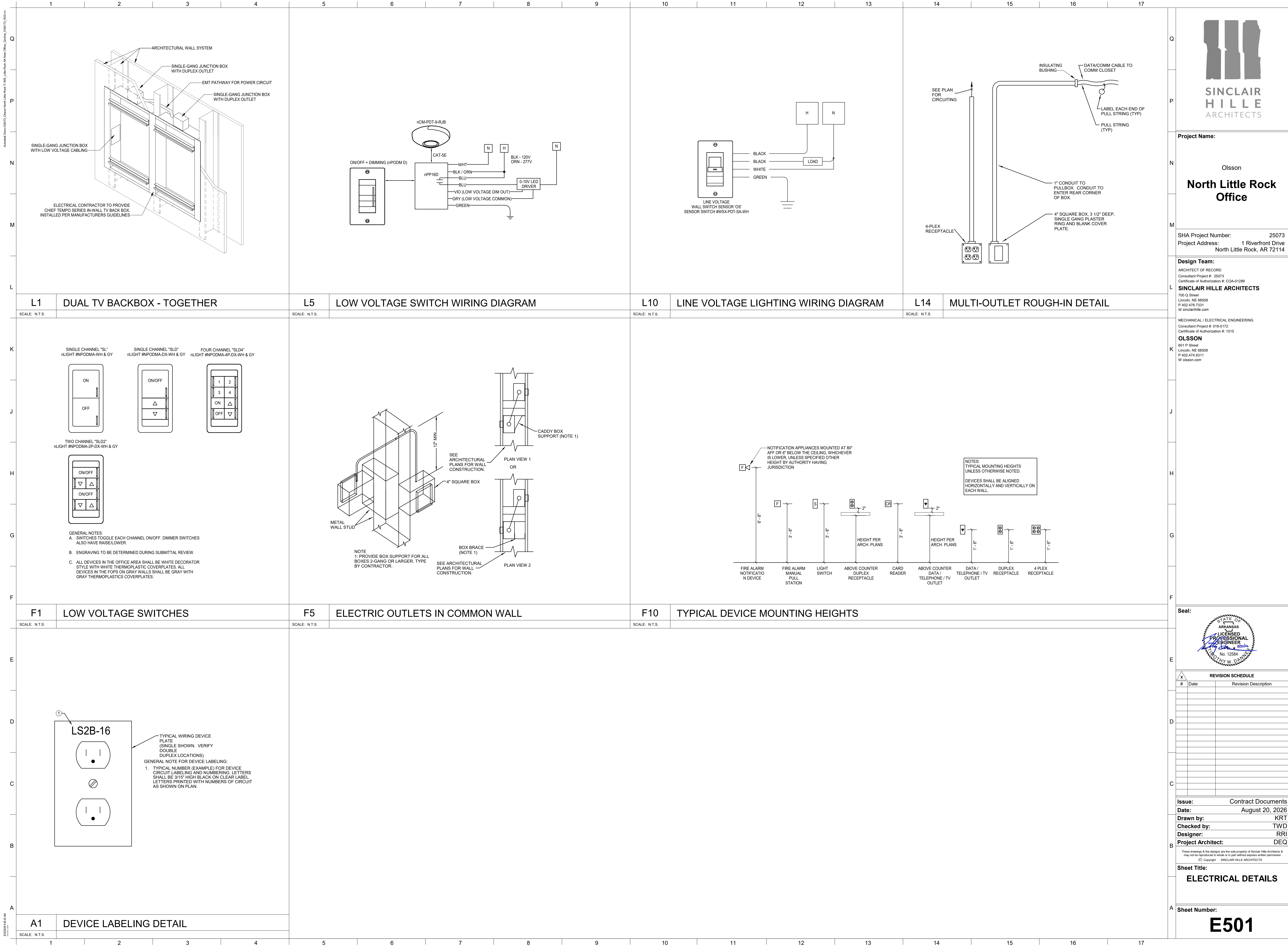
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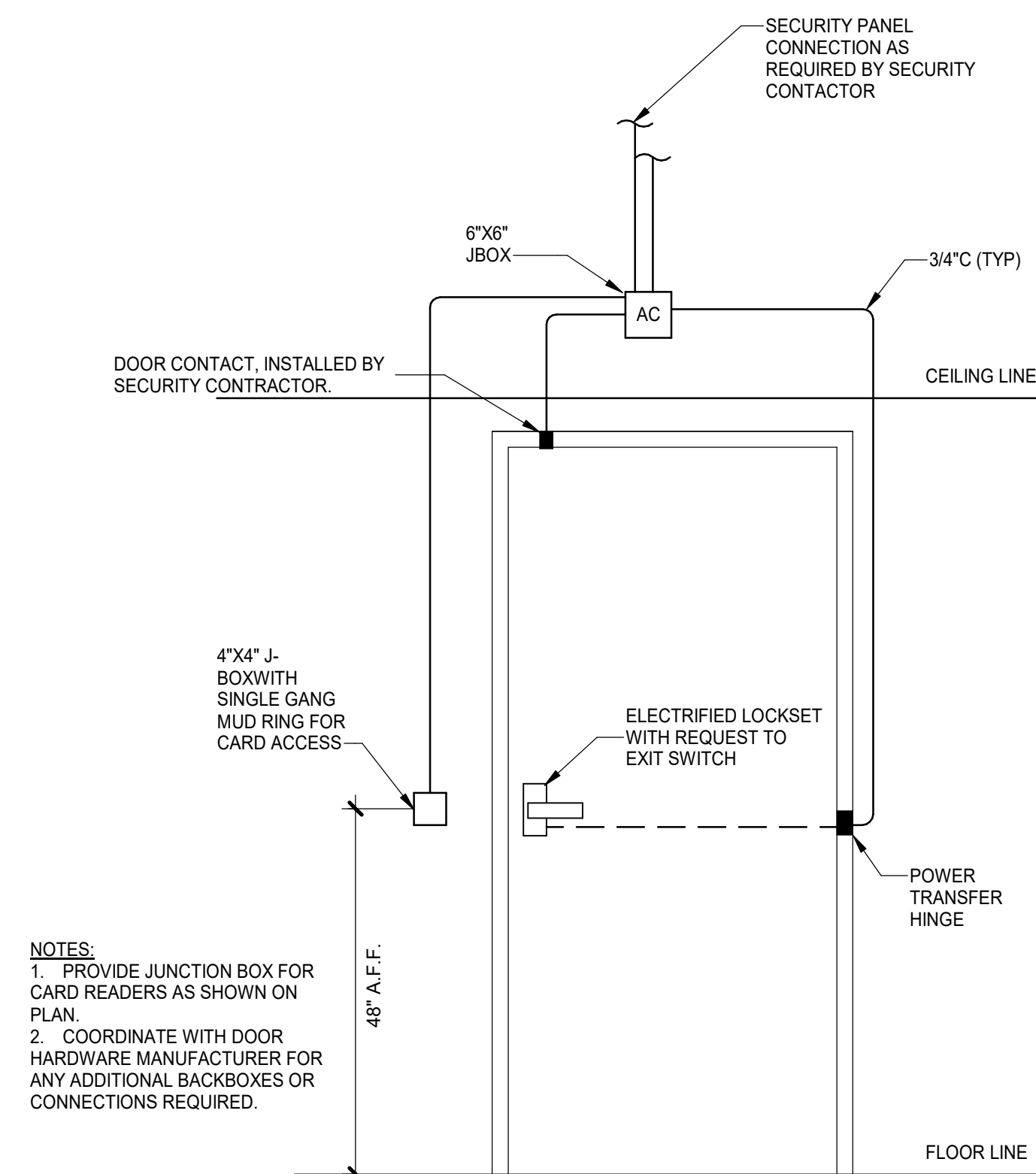
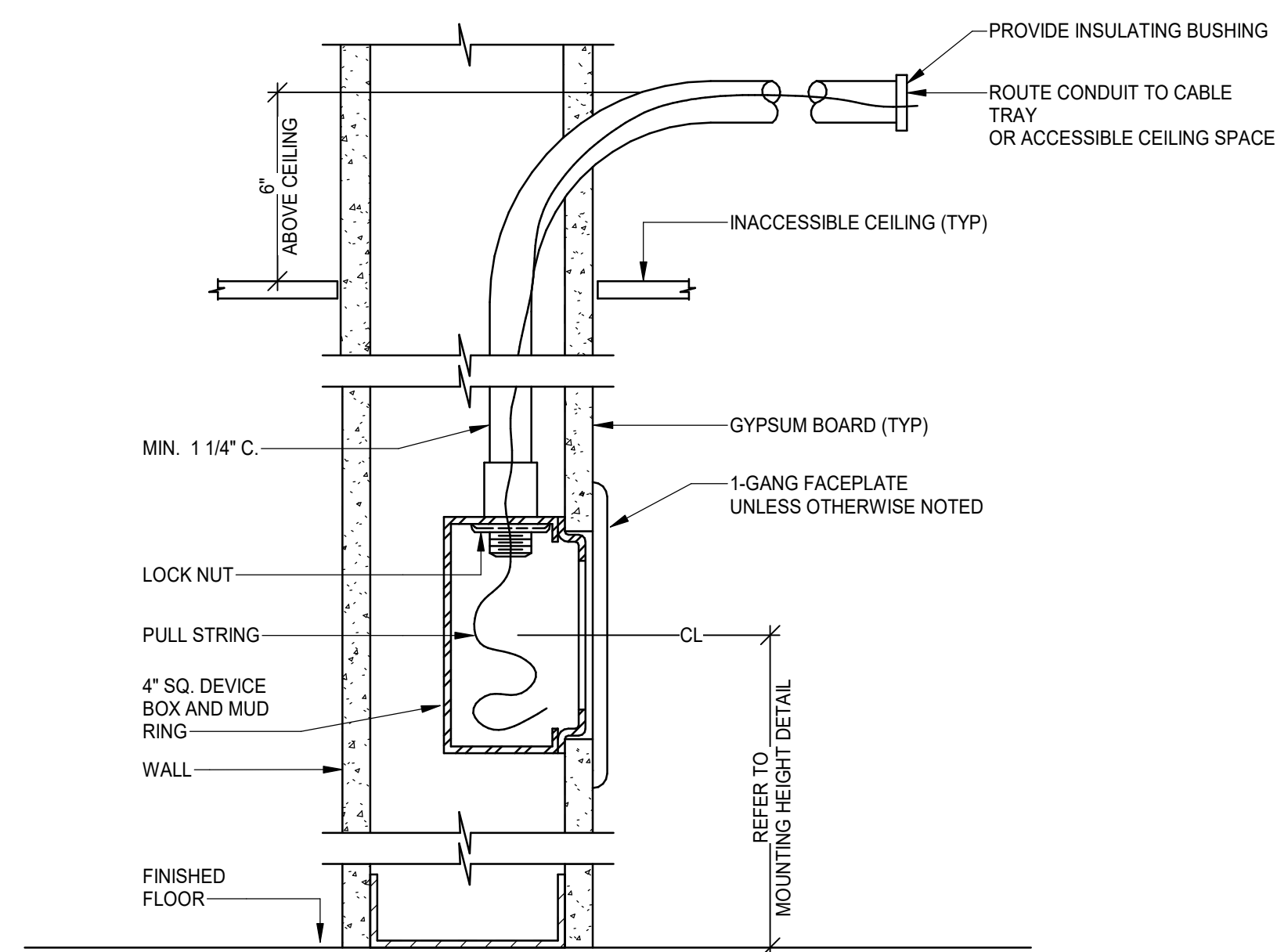
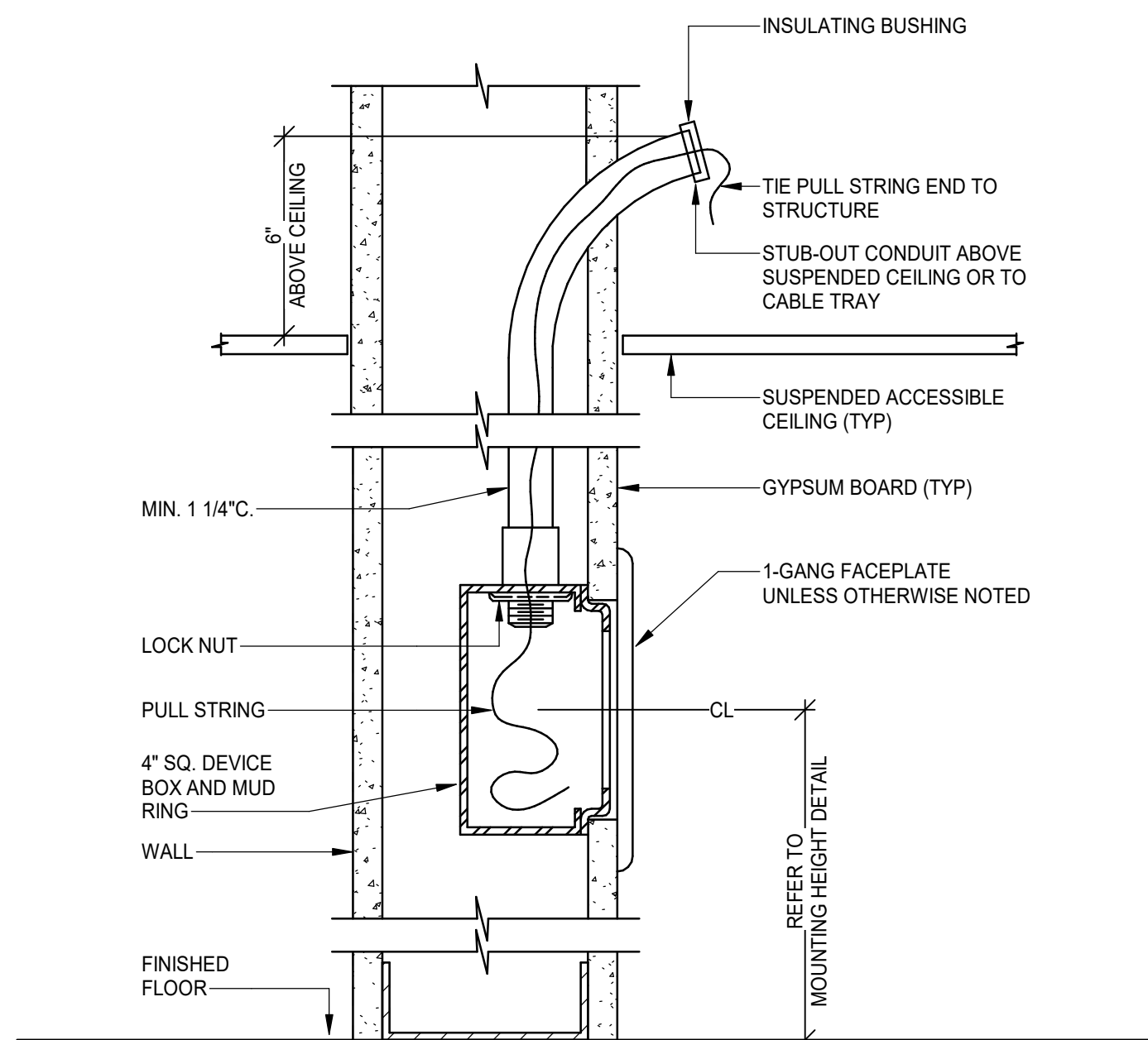
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**SPECIAL SYSTEMS
CABLE TRAY PLAN**

Sheet Number:

E302





Project Name:	
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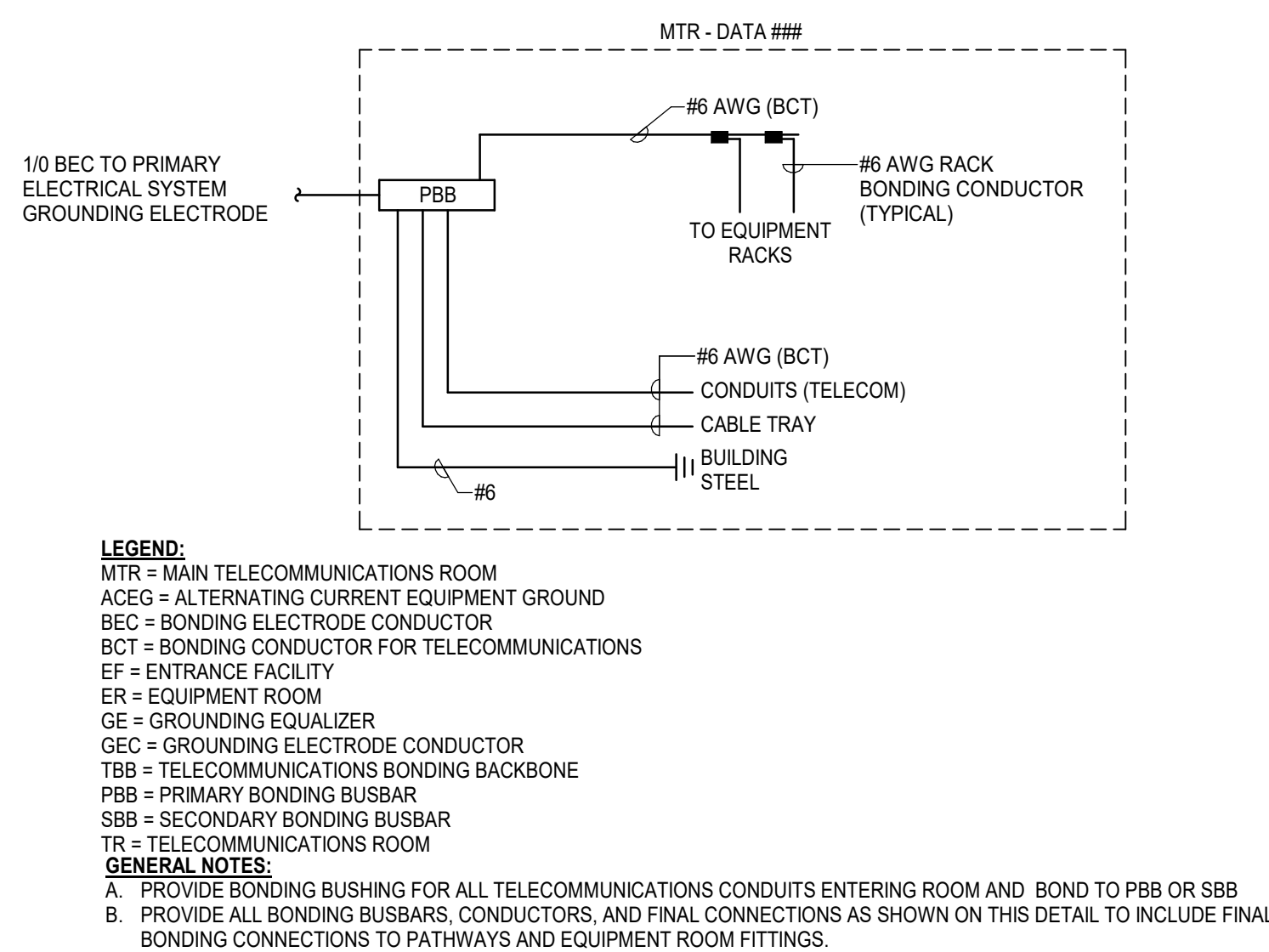
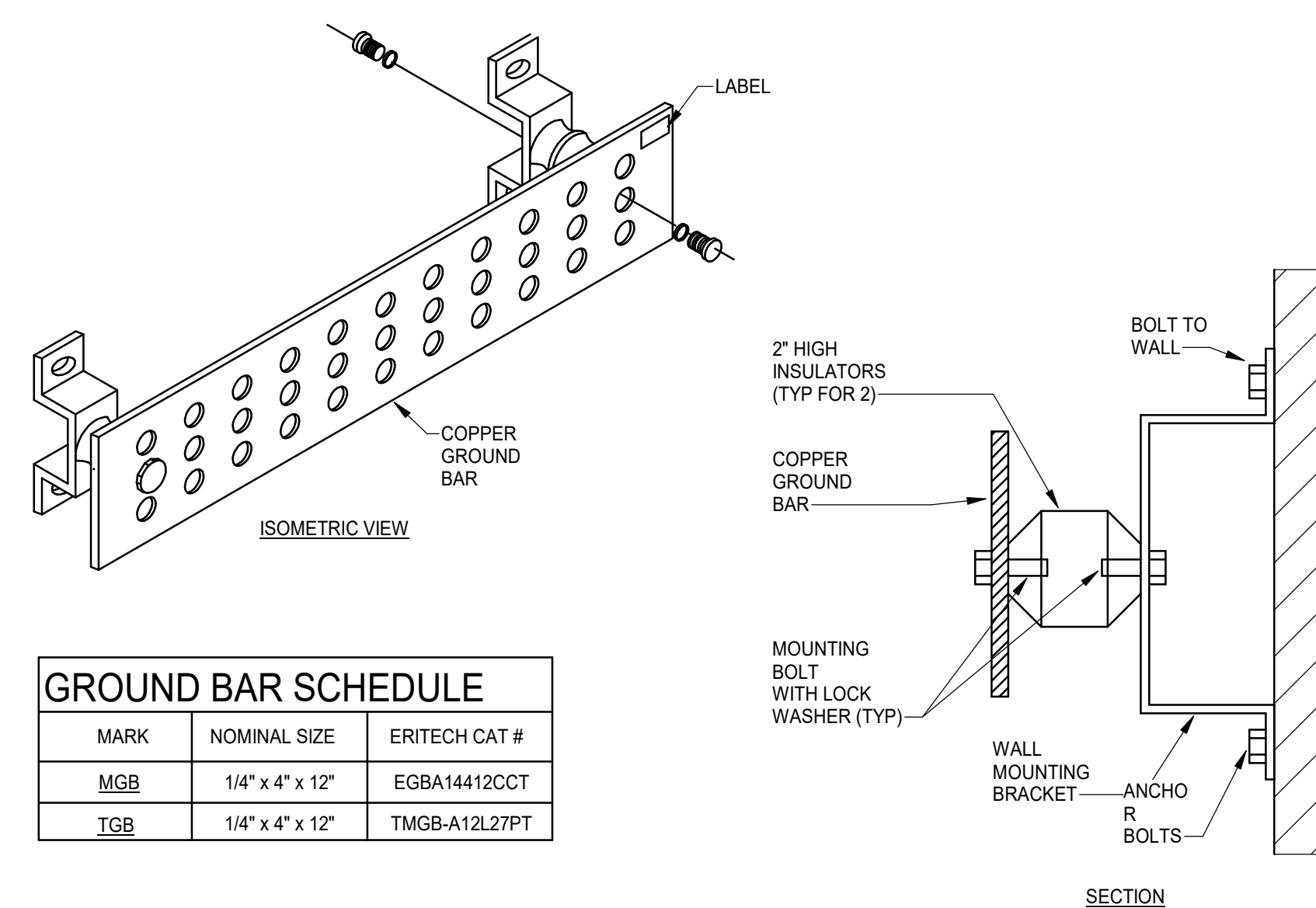
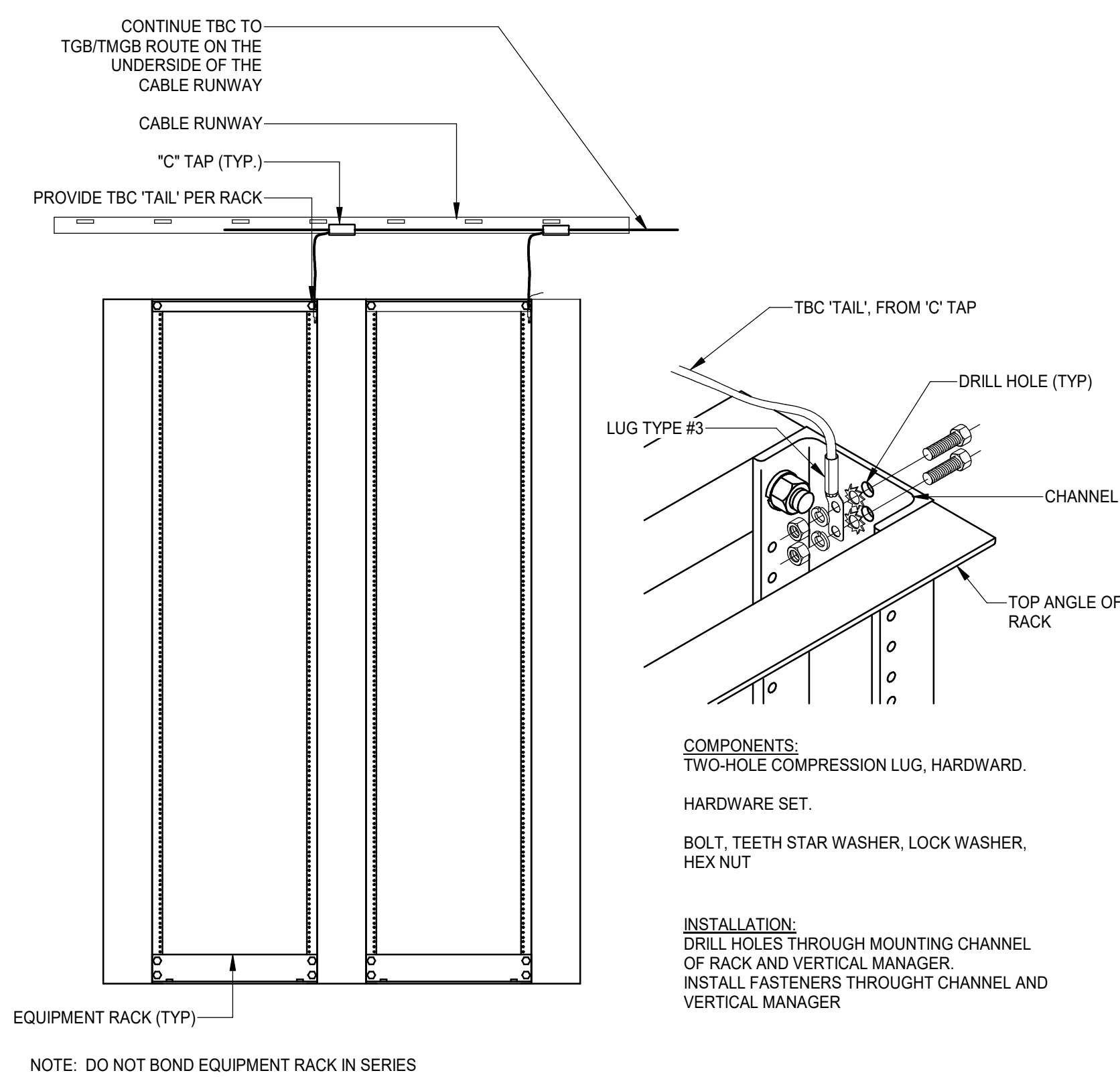
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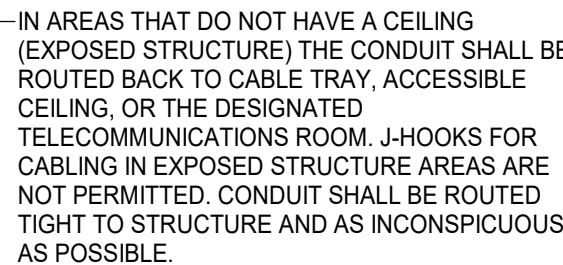
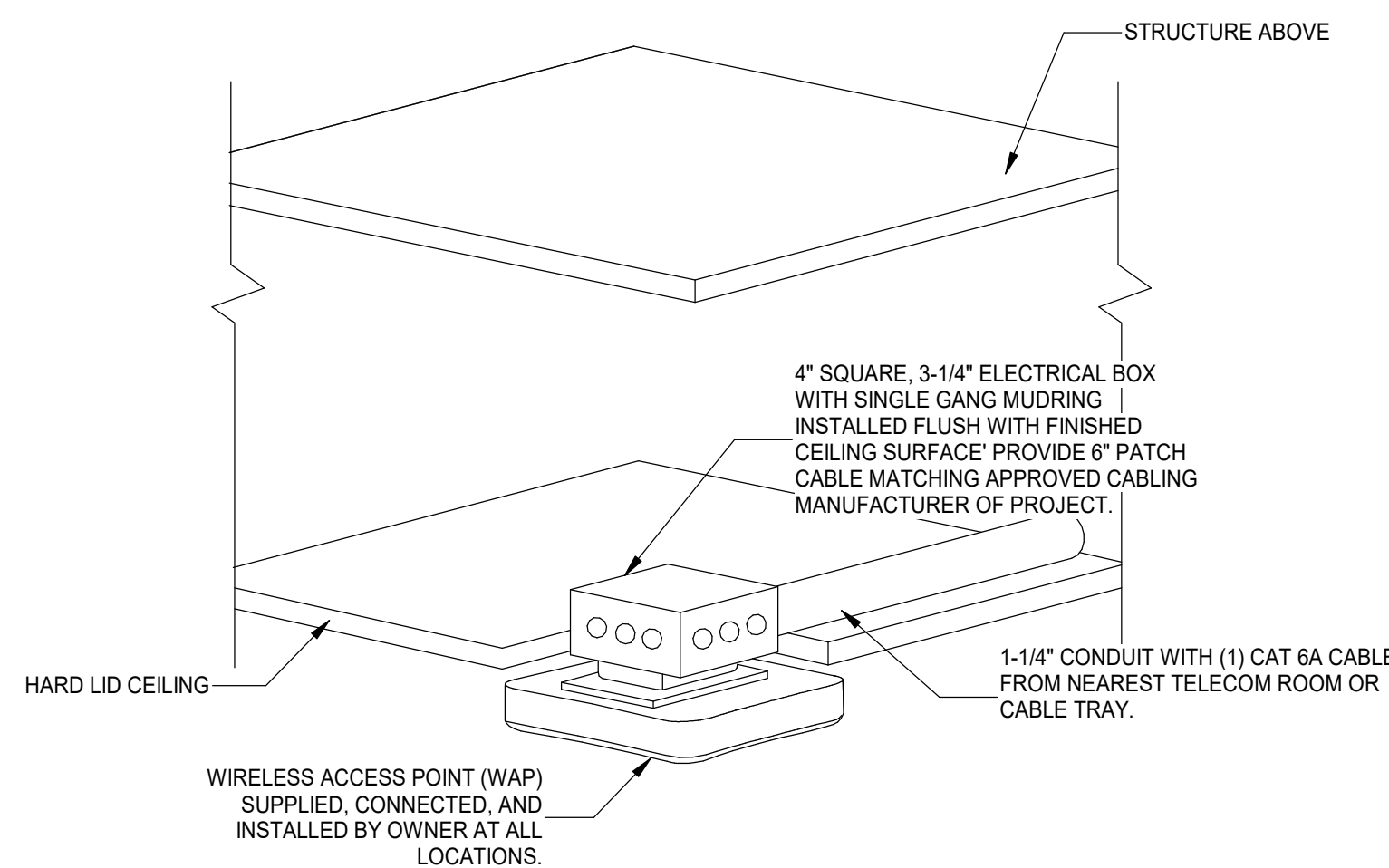
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SYSTEMS DETAILS

Sheet Number

E502



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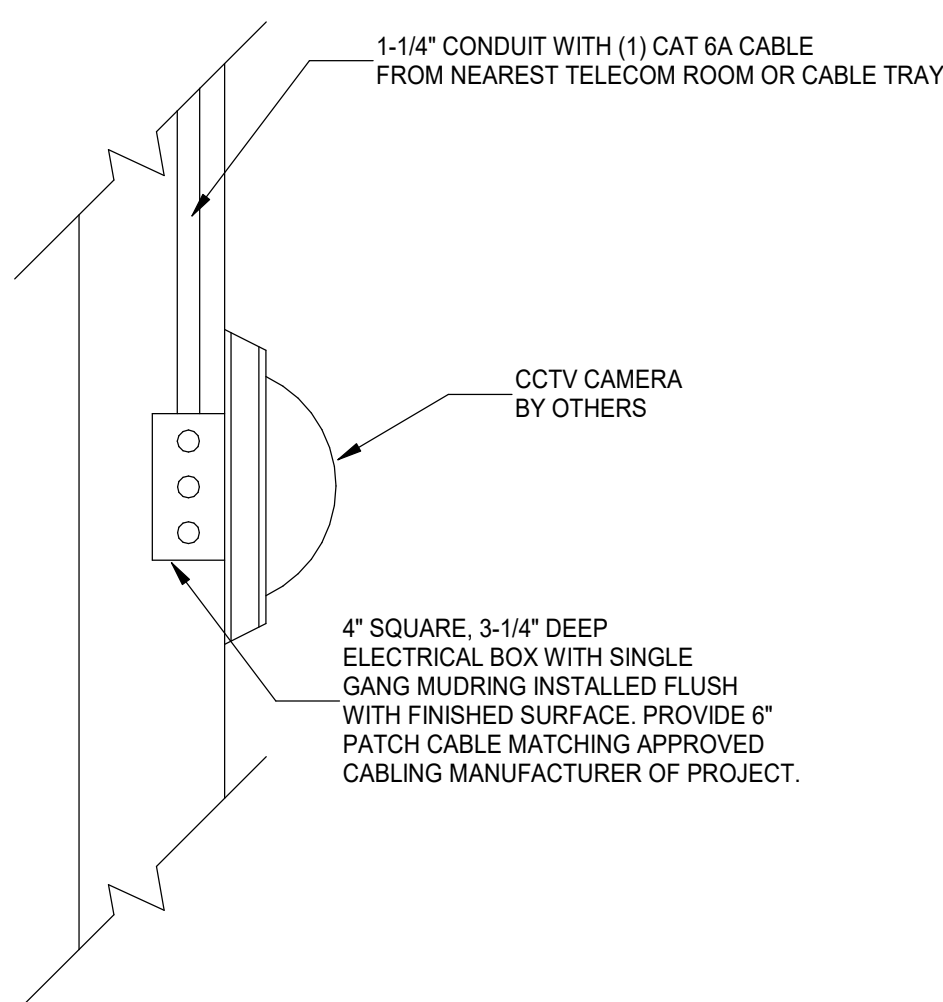
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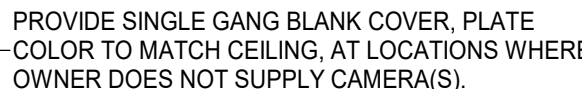
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CAMERA SCHEDULE		
TYPE MARK	CAMERA TYPE	MOUNT TYPE
C1	FIXED	DROP CEILING-SURFACE
C2	FIXED	WALL-SURFACE



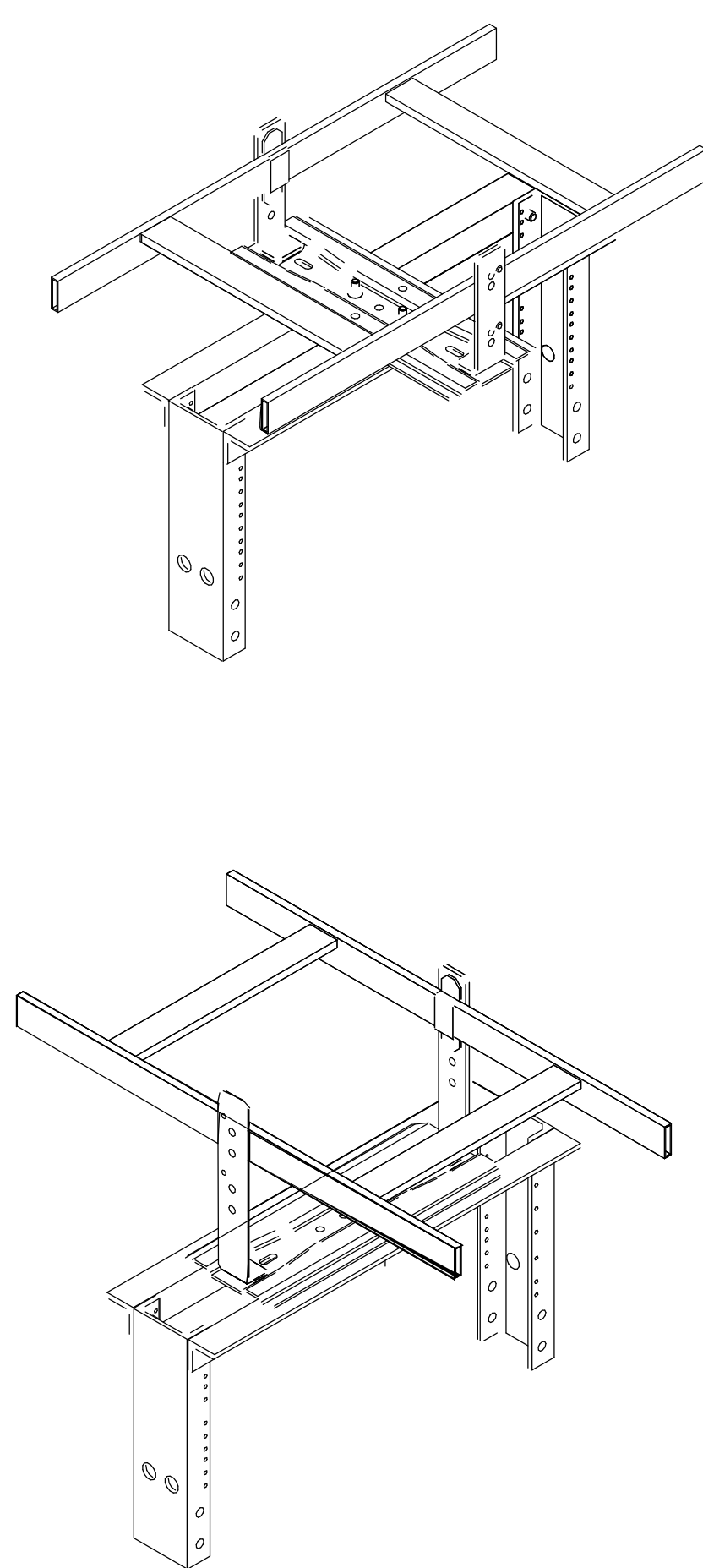
CAMERA SCHEDULE

TYPE MARK	CAMERA TYPE	MOUNT TYPE
C1	FIXED	DROP CEILING-SURFACE
C2	FIXED	WALL-SURFACE

DROP CEILING MOUNTED CAMERA

INTERIOR WALL MOUNTED CAMERA

HARD LID CEILING MOUNTED CAMERA



Perpendicular Mounting

TYPICAL CABLE RUNWAY TO WALL BRACING DETAIL

TYPICAL RACK TO RUNWAY MOUNTING

HARD LID CEILING MOUNTED CAMERA

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Designer:	RR
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Project Architect:	DEG
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Sheet Title:

SYSTEMS DETAILS

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E503



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Sheet Title:

SYSTEMS DIAGRAMS

Sheet Number:

E504

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Architect: David J. Sinclair, North Little Rock, AR
Title: Project Manager
Date: 08/20/2018
Drawing: 08/20/2018

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	FLA	MCA	MOPC	AMPS	KW	HP	VOLTS	PHASE	DISC. BY	DISC. SIZE	NEMA	DISC. TYPE	PANEL	CONDUCTORS				COMMENTS
															PHASE	NEUTRAL	GROUND	CONDUIT SIZE	
DWH-1	DOMESTIC WATER HEATER (ELECTRIC)	29 A	36 A	40 A	28.8	6	--	208 V	1	ELEC	60A	--	NON FUSED	PANEL P	#8	--	#10	3/4"	A,B,C,D
EF-1	EXHAUST FAN	3 A	4 A	15 A	2.8	--	1/20	120 V	1	ELEC	--	--	THERMAL ELEMENT SWITCH	PANEL P	#12	#12	#12	3/4"	A,B,C,D
SP-1	SEWAGE PUMP	8 A	9 A	20 A	7.2	.9	1/3	120 V	1	ELEC	--	--	THERMAL ELEMENT SWITCH	PANEL P	#12	#12	#12	3/4"	A,B,C,D
SP-2	SEWAGE PUMP	8 A	9 A	20 A	7.2	.9	1/3	120 V	1	ELEC	--	--	THERMAL ELEMENT SWITCH	PANEL P	#12	#12	#12	3/4"	A,B,C,D
VB-4-402	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	25 A	32 A	35 A	25.3	7	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#8	#8	#10	3/4"	A,B,C,D
VB-4-404	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	18 A	23 A	25 A	18.1	5	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#10	#10	#10	3/4"	A,B,C,D
VB-4-407	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	4 A	5 A	15 A	3.6	1	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#12	#12	#12	3/4"	A,B,C,D
VB-4-408	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	7 A	9 A	15 A	7.2	2	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#12	#12	#12	3/4"	A,B,C,D
VB-4-409	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	4 A	5 A	15 A	3.6	1	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#12	#12	#12	3/4"	A,B,C,D
VB-4-410	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	7 A	9 A	15 A	7.2	2	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#12	#12	#12	3/4"	A,B,C,D
VB-4-411	VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT	5 A	7 A	15 A	5.4	1.5	--	277 V	1	ELEC	30A	--	NON FUSED	PANEL L	#12	#12	#12	3/4"	A,B,C,D

MECHANICAL EQUIPMENT CONNECTION SCHEDULE GENERAL NOTES:
A. PROVIDE ALL DISCONNECTS SHOWN IN SCHEDULE ABOVE AND MAKE ALL CONNECTIONS REQUIRED TO MECHANICAL EQUIPMENT. PROVIDE STARTERS AS REQUIRED.
B. COORDINATE CHANGES WITH MECHANICAL EQUIPMENT PROVIDED PRIOR TO INSTALLATION.
C. MOUNT DISCONNECTS VERTICALLY WITH "ON" AT TOP OF UNIT. MOUNT DISCONNECTS WITHIN 6 FEET OF UNIT SERVED UNLESS SHOWN OR OTHERWISE NOTED.
D. CIRCUIT TO NEW OR SPARE CIRCUIT BREAKER AS NOTED WITHIN MOPC & PANEL COLUMN IN THE ABOVE SCHEDULE.

FLOOR BOX SCHEDULE

TYPE	STYLE	APPLICATION	TYPE	COVER	FINISH	FLOORING	POSITION / DEVICES								NOTES
							1	2	3	4	5	6	7	8	
FB-1	G	POKE-THRU	FF	AA	CP	B	P	P	DB	DB	--	--	--	--	A
FB-2	G	POKE-THRU	FL	AA	CP	PB	B	DB	AVB	PB	--	--	--	--	A
FB-3	F	POKE-THRU	FF	AA	TL	P	B	B	--	--	--	--	--	--	A

STYLE A
LEGRAND RFB-2E

STYLE B
LEGRAND RFB-4

STYLE C
LEGRAND EFB-6S

STYLE D
LEGRAND EFB-6S

STYLE E
LEGRAND EFB-4SS

STYLE F
LEGRAND SAT

STYLE G
LEGRAND SAT

STYLE H
LEGRAND 8895/8896TK
525F/500SP-X PEDESTAL

STYLE J
LEGRAND 881
LEGRAND 88KAL-12

1. LOCATIONS:
A. ON GRADE (-OG)
B. ABOVE GRADE
C. WOOD FLOOR
2. DEPTH: 3-7/16", 2-5/8" (SS)
3. POSITIONS:
A. 1-PB, DB, AVB
B. 2-PB, DB, AVB
C. 3-PB
4. COVER: FL, F, FF

1. LOCATIONS:
A. ON GRADE (-CI)
B. ABOVE GRADE
C. WOOD FLOOR
2. DEPTH: 3-7/16", 2-7/16" (SS)
3. POSITIONS:
A. 1-PB
B. 2-PB, DB, AVB
C. 3-PB
4. COVER: FL, F, FF

1. LOCATIONS:
A. ON GRADE
B. ABOVE GRADE
C. RAISED FLOOR
D. WOOD FLOOR
2. DEPTH: 4-1/16"
3. POSITIONS:
A. ALL - P, PS, D, AV
4. COVER: FL, F

1. LOCATIONS:
A. ON GRADE
B. ABOVE GRADE
C. RAISED FLOOR
D. WOOD FLOOR
2. DEPTH: 6"
3. POSITIONS:
A. ALL - P, PS, D, AV
4. 1-GANG, 2-GANG AND 4-GANG MOUNTING BRACKETS
5. COVER: FL, F

1. LOCATIONS:
A. ON GRADE (-OG)
B. ABOVE GRADE
C. RAISED FLOOR
D. WOOD FLOOR
2. DEPTH: 5-7/8"
3. POSITIONS:
A. ALL - P, PS, D, AV
4. COVER: FL, F, FF

1. LOCATIONS:
A. ABOVE GRADE
2. DEPTH: 16-1/4"
3. POSITIONS:
A. 1-PB
B. 2-PB
C. 3-PB, DB, (2) AVB
D. 4-PB, DB, (2) AVB
E. 5-PB, DB, (2) AVB
4. COVER: FL, F, FF

1. LOCATIONS:
A. ON GRADE
2. DEPTH: 3-1/2"
3. POSITIONS:
A. 1-PB, PS, DB, AVB
4. COVER: FL

1. LOCATIONS:
A. ON GRADE
2. DEPTH: 6"
3. POSITIONS:
A. 1-MODEL - FF
4. COVER: FL

FLOORBOX DEVICE LEGEND:
PB - DUPLEX RECEPTACLE WITH STANDARD FACEPLATE.
DB - DUPLEX RECEPTACLE (OR GFCI) MOUNTED IN SPECIAL MOUNTING BRACKET.
PS - SPECIAL RECEPTACLE MOUNTED IN SPECIAL MOUNTING BRACKET.
D - COMMUNICATIONS OUTLET WITH STANDARD FACEPLATE.
DB - COMMUNICATIONS OUTLET MOUNTED IN SPECIAL MOUNTING BRACKET.
AV - AUDIO VIDEO OUTLET IN STANDARD FACEPLATE.
AVB - AUDIO VIDEO OUTLET IN EXTRON AAP OR EXTRON MAAP MOUNTING BRACKET.
T - THREADED OPENING.
B - BLANK COVER
(SS) - SHALLOW VERSION DEPTH.
(-OG) - ON GRADE VERSION.
(-CI) - CAST IRON ON GRADE VERSION.

COVER TYPES:
BK - BLACK
GY - GRAY
NK - NICKEL
BS - BRASS
BZ - BRONZE
AA - BRUSHED ALUMINUM
SB - SATIN BRASS
SN - SATIN NICKEL

COVER FINISH:
FL - FLANGE
F - FLUSH
FF - FURNITURE FEED

COVER FLOOR:
OP - CARPET
TL - TILE

NOTES:
A. COORDINATE FINAL CONNECTIONS WITH OWNER PROVIDED FURNITURE SYSTEMS.

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZE

PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2-WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3-WIRE + GND. CONDUIT SIZE	SINGLE PHASE 4-WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1-1/4"
70	4 AWG	10 AWG	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
** = ALL CONDUCTORS SHOWN IN THIS TABLE ARE BASED ON THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.
*** = THE CONDUCTORS SHOWN IN THIS TABLE ARE BASED ON AN AMBIENT TEMPERATURE OF 86°F. FOR TEMPERATURES ABOVE 86°F THE CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH THE NEC.

DISPLAY SCHEDULE

Rm. NUMBER	LOCATION	Rm. NAME	MANUFACTURER	MODEL	NOMINAL SCREEN SIZE	MOUNT	MOUNT MODEL	BRIGHTNESS	RESOLUTION	ORIENTATION	COMMENTS
103	LARGE CONFERENCE	SONY	88B230L	96-INCH	CHIEF	FP1WMKIT2	500 NITS	3840X2160	LANDSCAPE		
108	MEDIUM CONFERENCE	SONY	75B240P	75-INCH	CHIEF	FP1WMKIT2	500 NITS	3840X2160	LANDSCAPE		
109	HUDDLE	SONY	75B240P	75-INCH	CHIEF	FP1WMKIT2	500 NITS	3840X2160	LANDSCAPE		
111	HUDDLE	SONY	75B240P	75-INCH	CHIEF	FP1WMKIT2	500 NITS	3840X2160	LANDSCAPE		
112	HUDDLE	SONY	75B240P	75-INCH	CHIEF	FP1WMKIT2	500 NITS	3840X2160	LANDSCAPE		

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL	TOTAL INPUT WATTS	WATTS PER LINEAR FOOT	LAMP			VOLTAGE	MOUNTING	APPROVED MANUFACTURER	KEYED NOTES
						TYPE	LUMENS	CCT				
A1	RECESSED LINEAR - ASYMMETRIC	FOCAL POINT	FSMPR-ALH-AF1-62SL-630K-1C-UNV-L11-G-WH-#WFT-#HIN		5	625LMFT LED	2850	3500 K	90	277	CEILING RECESSED IN GRID	LUMENWERX
C1	12X16" RECESSED LINEAR SQUARE	BASO LIGHTING	BASO 1.5-RTL-WH-OF-36K-C90-UNV-010V-0400LF-RS-144X192IN	48	4	400LMFT LED	8556	3500 K	90	277	CEILING RECESSED IN GYP	OTL
D1	4" ROUND RECESSED DOWNLIGHT - WIDE DIST.	FOCAL POINT	FLC30-RD-SW-180U-UNV-L11-LC3-RDQ3-SW-180U-635K-DSS-SWFL-WH	22		2000LM LED	4800	3500 K	90	277	CEILING RECESSED IN GRID	PORTFOLIO
O1	2X4 RECESSED SWITCHABLE FLAT PANEL	LITHONIA	CP9-2X4-AUB-80CR-SWV1-SWFL-MVOLT	40		4900LM LED	8913	3500 K	80	277	CEILING RECESSED IN GRID	METALUX
I1	4" INDUSTRIAL STRIP LED	LITHONIA	CLX148-5000LM-SEF-RDL-MVOLT-G210-40K-80CRI-WH-ZACVH M100	35		5000LM LED	5600	4000 K	80	277	CEILING SUSPENDED	METALUX
L1	4X4" RECESSED LINEAR	FOCAL POINT	FSMAL-BW-1250LF-635K-1C-UNV-L11-T1-1"-4FT	46		3700LM LED	1380	3500 K	90	277	CEILING RECESSED IN GRID	LUMENWERX
L2	4X8" RECESSED LINEAR	FOCAL POINT	FSMAL-BW-1000LF-635K-1C-UNV-L11-T1-1"-8FT	74		7400LM LED	1380	3500 K	90	277	CEILING RECESSED IN GRID	LUMENWERX
L5	1" SUSPENDED LINEAR	MARK ARCHITECTURAL	S1PD-LLP-6FT-MSL6-90CR-35K-600LMF-DBW-SC1-MINI-1FL-MVOLT-8LKT-ZT-F272A-RDGY-BLCKY-6CRD	79		625LMFT LED	11400	3500 K	90	277	CEILING SUSPENDED	LUMENWERX
P1	12" GLOBE PENDANT	PABLO	BOLA SPH 12-GUN	20		1625LM LED	1380	2700 K	90	277	CEILING SUSPENDED	
P2	LARGE ACOUSTIC LED PENDANT	BUZZ SPACE	BUZZISHADE L - LED SOLO-277V-3500K-12 FA-LghtGrey 1000"	19		1500LM LED	1380	3500 K	80	277	CEILING SUSPENDED	
P5	MED LED ACOUSTIC PENDANT	BUZZ SPACE	BUZZSHADE M - LED SOLO-277V-3500K-12 FA-Grass 59"	19		1500LM LED	1380	3500 K	80	277	CEILING SUSPENDED	
P7	5" SUSPENDED ROUND CYLINDER PENDANT - LOW OUTPUT	FOCAL POINT	FLCY4-RD-WHG-2000L-635K-1C-UNV-DSC-L11-C72-DSS-SWFL-CD-***	24		1500LM LED	1380	3500 K	90	277	CEILING SURFACE	
S1	4" LED SURFACE DRUM	FOCAL POINT	FSDEP-4-FL-7000DN-SG-935K-1C-UNV-L11-SM-BK	62		7000LM LED	2400	3500 K	90	277	CEILING SURFACE	PRUDENTIAL
U1	RECESSED LED UNDERCABINET LINEAR	PURE EDGE	LCMW-6-SW-X-3D-35K-1"		4	400LM LED	2850	3500 K	90	277	RECESSED MILLWORK	OTL
X1	EXIT SIGN - SINGLE FACE	LITHONIA	EDGR-1-RMR	2		LED	9	4000 K	277	WALL, SUSPENDED, CEILING	SURE-LITES	1,2

GENERAL SCHEDULE NOTES:
A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF SUSPENDED AND WALL MOUNTED LIGHT FIXTURES WITH OWNER/ARCHITECT PRIOR TO ORDERING AND INSTALLATION.
B. FOR LED REPLACEMENT LAMPS, PROVIDE PRODUCT DATA SUBMITTAL FOR REVIEW BY THE OWNER/ARCHITECT/ENGINEER.
C. FOR EXIT SIGNS, PROVIDE DIRECTIONAL ARROWS AS REQUIRED FOR MAXIMUM CLARITY OF THE PATH OF EGRESS OR TO MATERIAL, PROCUREMENT.
D. FIXTURE FINISH - WHERE CATALOG NUMBER LISTED INDICATES "" IN LIEU OF MANUFACTURER'S FINISH OPTION, COORDINATE WITH ARCHITECT FOR EXACT FINISH PRIOR TO ORDERING.

SCHEDULE KEY NOTES:
1. PROVIDE WITH PENDANT MOUNT (PM) OPTION WHEN PENDANT MOUNT (PM) DESIGNATION IS INDICATED ON THE LIGHTING PLANS.
2. PROVIDE WITH RECESSED WALL MOUNT (WM) OPTION WHEN WALL MOUNT (WM) DESIGNATION IS INDICATED ON THE LIGHTING PLANS.
3. PROVIDE ALL COMPONENTS (POWER SUPPLIES, POWER SUPPLY ACCESSORIES, ACCESSORIES, ETC.) FOR MOUNTING AND INSTALLATION OF A COMPLETE SYSTEM.
4. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.
5. SWITCHABLE CCT AND LUMEN OUTPUT, FIELD VERIFY WITH OWNER ON THE FINAL CCT AND LUMEN OUTPUT SELECTIONS.
6. COORDINATE OVERALL FIXTURE LENGTH AND MOUNTING POINTS WITH BULKHEAD AND SUSPENDED ARCHITECTURAL CEILING COMPONENTS.
7. SUSPEND SO THAT BOTTOM OF FIXTURE IS 9'-0" AFF.
8. SUSPEND SO THAT BOTTOM OF FIXTURE IS 10'-6" AFF.
9. SUSPEND SO THAT BOTTOM OF FIXTURE IS 10'-6" AFF.
10. REFERRED VENDOR, ENCOMPASS, CONTACT AMY WRIGHT (AMY@ENCOMPASS.COM; 816.285.6482). LIGHTING FIXTURE SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
11. PROVIDE FIXTURE WITH BUG PROOF CUSTOM CAP AT THE TOP. COORDINATE WITH MANUFACTURER FOR EXACT PART NUMBER.

LIGHTING CONTROL SCHEDULE

TAG	ROOM TYPE	DEVICES				SEQUENCE OF OPERATION
		OCC	DAY LT	AUX	NETWK	
CRM	CONFERENCE/MTG ROOM	DT	N	N	Y	MANUAL ON: LIGHTS TO 100% WALL DEVICE: PROVIDE ON/OFF CONTROL AND DIM FROM MIN/MAX OCC DELAY: 20 MINUTE DELAY, LIGHTS TO 0%
LNG	LOUNGE W/ DAYLIGHT HARVESTING	DT	Y	N	Y	AUTO ON: UPON OCCUPANCY DETECTION, LIGHTS TO 50% WALL DEVICE: PROVIDE ON/OFF CONTROL AND DIM FROM MIN/MAX OCC DELAY: 20 MINUTE DELAY, LIGHTS TO 0% DAYLIGHT ZONE(S): UTILIZE PHOTOCELL TO MAINTAIN A MAX LEVEL OF 40FC
MEC	MECHANICAL/ELECTRICAL	N	N	N	N	NO AUTOMATIC CONTROLS WITHIN THIS SPACE
OFF	OPEN OFFICE W/ DAYLIGHT HARVESTING	DT	Y	N	Y	AUTO ON (DURING AFTER HOURS): UPON OCCUPANCY DETECTION, LIGHTS TO 50% MANUAL ON: DURING NORMAL BUSINESS HOURS WALL DEVICE: PROVIDE ON/OFF CONTROL AND DIM FROM MIN/MAX REFER TO GENERAL NOTE J
REC	RECEPTION	DT	N	N	Y	AUTO ON (DURING AFTER HOURS): UPON OCCUPANCY DETECTION, LIGHTS TO 100% WALL DEVICE: PROVIDE ON/OFF CONTROL AND DIM FROM MIN/MAX SCHEDULE ON: 6:00 A.M. LIGHTS TO 100% UPON OCCUPANCY DETECTION, REMAIN 100% UNTIL AFTER HOURS SCHEDULE [AFTER HOURS: 6:30 P.M. OCC DELAY: 20 MINUTE DELAY, LIGHTS TO 10%]
SUP	SUPPORT SPACES	DT	N	N	Y	AUTO ON: UPON OCCUPANCY DETECTION, LIGHTS TO 50% OCC DELAY: 10 MINUTE DELAY, LIGHTS TO 0%

GENERAL SCHEDULE NOTES:
A. PROVIDE MANUFACTURER
B. SEE LIGHTING PLAN FOR WALL DEVICE TYPES AND LOCATIONS.
C. DEVICE QUANTITIES NOT INDICATED. PROVIDE TYPE AND QUANTITY OF DEVICES AS REQUIRED TO PROVIDE COMPLETE COVERAGE OF SPACE AND INTENDED SYSTEM OPERATION.
D. WHERE BLUE-LEVEL SWITCHING AND AUTO ON TO 50% ARE USED IN THE SAME SPACE, THE ZONE THAT IS AUTOMATICALLY TURNED ON SHALL BE CONTROLLED BY THE BOTTOM BUTTON OF WALL DEVICES.
E. WHERE DAYLIGHT HARVESTING IS BEING UTILIZED, PROVIDE ADDITIONAL COMPONENTS AS NEEDED TO CONTROL LIGHTING WITHIN DAYLIGHT ZONES 2018 IECC INDEPENDENT OF GENERAL AREA LIGHTING WITHIN SPACE. PROVIDE MINIMUM OF (1) PHOTOCELL DEVICE PER DAYLIGHT ZONE.
F. WHERE PHOTOCELLS ARE BEING UTILIZED, PROVIDE ADDITIONAL COMPONENTS AS NEEDED TO CONTROL LIGHTING WITHIN DAYLIGHT ZONES 2018 IECC INDEPENDENT OF GENERAL AREA LIGHTING WITHIN SPACE. PROVIDE MINIMUM OF (1) PHOTOCELL DEVICE PER DAYLIGHT ZONE.
G. UNLESS NOTED OTHERWISE, LIGHTING SHALL UTILIZE CONTINUOUS DIMMING.
H. UNDERCABINET LIGHTING SHALL BE SWITCHED SEPARATELY FROM MAIN ROOM LIGHTING. UNDERCABINET LIGHTING SHALL STILL BE CONTROLLED BY THE AUTO OFF FUNCTION OF OCCUPANCY SENSORS.
I. WHERE PHOTOCELLS ARE UTILIZED FOR DAYLIGHT HARVESTING, TARGET ILLUMINANCE LEVELS SHALL BE MEASURED AT WORK PLANE OF PRIMARY TASK IN SPACE.
J. OPEN OFFICE LIGHTING CONTROLS SHALL BE CONFIGURED PER 2018 IECC SECTION C405.2.1.3.

DEVICES:
1. "OCC" - PROVIDE OCCUPANCY SENSOR. CEILING MOUNT UNLESS NOTED OTHERWISE.
• "IR" = PASSIVE INFRARED
• "US" = ULTRASONIC/MICROPHONIC
• "DT" = DUAL TECHNOLOGY
• "N" = NO OCCUPANCY SENSOR
2. "DAYLIGHT" - DAYLIGHT CONTROLS. CEILING MOUNT UNLESS NOTED OTHERWISE.
• "T" = PROVIDE DAYLIGHT PHOTOCELL. PHOTOCELLS MAY NOT BE COMBINED WITH OCCUPANCY SENSORS UNLESS NOTED OTHERWISE.
• "N" = NO DAYLIGHT PHOTOCELL
3. "AUX" - AUXILIARY CONTACT.
• "T" = PROVIDE AUXILIARY CONTACT/RELAY TO INDICATE OCCUPANCY FOR USE BY OTHER SYSTEMS. MAY BE INTEGRATED WITH OCCUPANCY SENSOR
• "N" = NO AUXILIARY CONTACT
4. "NETWK" - NETWORKED LIGHTING CONTROL COMMUNICATIONS.
• "T" = NETWORK ROOM DEVICES TO BUILDING-WIDE LIGHTING CONTROLS NETWORK COMMUNICATIONS.
• "N" = BUILDING-WIDE LIGHTING CONTROLS NETWORK COMMUNICATIONS NOT REQUIRED TO THIS ROOM.



Project Name:

Olsson

North Little Rock Office

SHA Project Number: 25073
Project Address: 1 Riverfront Drive
North Little Rock, AR 72114

Design Team:

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Consultant Project #: 25073
Certificate of Authorization #: COA-01289
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Seal:



REVISION SCHEDULE

Date Revision Description

Issue: Contract Documents
Date: August 20, 2026
Drawn by: KRT
Checked by: TWD
Designed by: RRI
Project Architect: DEQ

Sheet Title:

ELECTRICAL SCHEDULES

Sheet Number:

E601

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SECTION 28.31.11
DIGITAL ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 - GENERAL

RELATED DOCUMENTS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

SYSTEM DESCRIPTION

NONCODED, UL-CERTIFIED ADDRESSABLE SYSTEM, WITH MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.

SUBMITTALS

GENERAL SUBMITTAL REQUIREMENTS:

SUBMITTALS SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO SUBMITTING THEM TO ARCHITECT.

SHOP DRAWINGS SHALL BE PREPARED BY PERSONS WITH THE FOLLOWING QUALIFICATIONS:

1. TRAINED AND CERTIFIED BY MANUFACTURER IN FIRE-ALARM SYSTEM DESIGN.
2. NICET-CERTIFIED FIRE-ALARM TECHNICIAN, LEVEL III MINIMUM.
3. LICENSED OR CERTIFIED BY AUTHORITIES HAVING JURISDICTION.

DELEGATED-DESIGN SUBMITTAL: FOR NOTIFICATION APPLIANCES AND SMOKE AND HEAT DETECTORS, IN ADDITION TO SUBMITTALS LISTED ABOVE, INDICATE COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

1. DRAWINGS SHOWING THE LOCATION OF EACH NOTIFICATION APPLIANCE AND SMOKE AND HEAT DETECTOR, RATINGS OF EACH, AND INSTALLATION DETAILS AS NEEDED TO COMPLY WITH LISTING CONDITIONS OF THE DEVICE.
2. DESIGN CALCULATIONS: CALCULATE REQUIREMENTS FOR SELECTING THE SPACING AND SENSITIVITY OF DETECTION, COMPLYING WITH NFPA 72.
3. CALCULATE SPACING AND INTENSITIES FOR STROBE SIGNALS AND SOUND-PRESSURE LEVELS FOR AUDIBLE APPLIANCES.
3. INDICATE AUDIBLE APPLIANCES REQUIRED TO PRODUCE SQUARE WAVE SIGNAL PER NFPA 72.

PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

SHOP DRAWINGS: FOR FIRE-ALARM SYSTEM, INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.

1. COMPLY WITH RECOMMENDATIONS IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72.
2. INCLUDE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS.
3. INCLUDE BATTERY-SIZE CALCULATIONS.
4. INCLUDE PERFORMANCE PARAMETERS AND INSTALLATION DETAILS FOR EACH DETECTOR, VERIFYING THAT EACH DETECTOR IS LISTED FOR COMPLETE RANGE OF AIR VELOCITY, TEMPERATURE, AND HUMIDITY POSSIBLE WHEN AIR-HANDLING SYSTEM IS OPERATING.
5. INCLUDE PLANS, SECTIONS, AND ELEVATIONS OF HEATING, VENTILATING, AND AIR-CONDITIONING DUCTS, DRAWN TO SCALE AND COORDINATING INSTALLATION OF DUCT SMOKE DETECTORS AND ACCESS TO THEM. SHOW CRITICAL DIMENSIONS THAT RELATE TO PLACEMENT AND SUPPORT OF SAMPLING TUBES, DETECTOR HOUSING, AND REMOTE STATUS AND ALARM INDICATORS. LOCATE DETECTORS ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
6. INCLUDE FLOOR PLANS TO INDICATE FINAL OUTLET LOCATIONS SHOWING ADDRESS OF EACH ADDRESSABLE DEVICE. SHOW SIZE AND ROUTE OF CABLE AND CONDUITS.

QUALIFICATION DATA: FOR QUALIFIED INSTALLER.

OPERATION AND MAINTENANCE DATA: FOR FIRE-ALARM SYSTEMS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS. IN ADDITION TO ITEMS SPECIFIED IN DIVISION 01 SECTION "OPERATION AND MAINTENANCE DATA," INCLUDE THE FOLLOWING:

1. COMPLY WITH THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.
2. PROVIDE "RECORD OF COMPLETION DOCUMENTS" ACCORDING TO NFPA 72 ARTICLE "PERMANENT RECORDS" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER.
3. PROVIDE "MAINTENANCE, INSPECTION AND TESTING RECORDS" ACCORDING TO NFPA 72 ARTICLE OF THE SAME NAME AND INCLUDE THE FOLLOWING:
 - A. FREQUENCY OF TESTING OF INSTALLED COMPONENTS.
 - B. FREQUENCY OF INSPECTION OF INSTALLED COMPONENTS.
 - C. REQUIREMENTS AND RECOMMENDATIONS RELATED TO RESULTS OF MAINTENANCE.
 - D. MANUFACTURER'S USER TRAINING MANUALS.
4. MANUFACTURER'S REQUIRED MAINTENANCE RELATED TO SYSTEM WARRANTY REQUIREMENTS.
5. ABBREVIATED OPERATING INSTRUCTIONS FOR MOUNTING AT FIRE-ALARM CONTROL UNIT.

QUALITY ASSURANCE

INSTALLER QUALIFICATIONS: PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS REQUIRED FOR THIS PROJECT.

INSTALLER QUALIFICATIONS: INSTALLATION SHALL BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM LEVEL II TECHNICIAN.

SOURCE LIMITATIONS FOR FIRE-ALARM SYSTEM AND COMPONENTS: OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 BY A UL-LISTED ALARM COMPANY.

PART 2 - PRODUCTS

MANUFACTURERS

MANUFACTURERS: THE FIRE ALARM VOICE COMMUNICATION CONTROL PANEL IS EXISTING TO REMAIN. ALL NEW FIRE ALARM DEVICES SHALL BE OF THE SAME MANUFACTURER (SIEMENS) OF THE EXISTING SYSTEM AND SHALL BE FULLY COMPATIBLE WITH THE EXISTING SYSTEM. ALL NEW AUDIBLE SPEAKER AND VISUAL NOTIFICATION APPLIANCES SHALL MATCH THE TYPE ALREADY IN USE AT THE FACILITY.

SYSTEMS OPERATIONAL DESCRIPTION

FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND SYSTEMS:

1. MANUAL STATIONS.
2. HEAT DETECTORS.
3. SMOKE DETECTORS.
4. VERIFIED AUTOMATIC ALARM OPERATION OF SMOKE DETECTORS.
5. AUTOMATIC SPRINKLER SYSTEM WATER FLOW.
6. HEAT DETECTORS IN ELEVATOR SHAFT AND PIT.
7. FIRE-EXTINGUISHING SYSTEM OPERATION.
8. FIRE STANDPIPE SYSTEM.

SECTION 28.31.11 (CONTINUED)

FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:

1. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
2. IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.
3. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
4. UNLOCK ELECTRIC DOOR LOCKS IN DESIGNATED EGRESS PATHS.
5. RELEASE FIRE AND SMOKE DOORS HELD OPEN BY MAGNETIC DOOR HOLDERS.
6. ACTIVATE ALARM COMMUNICATION SYSTEM.
7. CLOSE SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED AIR-CONDITIONING DUCT SYSTEMS.
8. RECALL ELEVATORS TO PRIMARY OR ALTERNATE RECALL FLOORS.
9. RECORD EVENTS IN THE SYSTEM MEMORY.

FIRE-ALARM CONTROL UNIT

THE FIRE-ALARM VOICE COMMUNICATION CONTROL UNIT IS EXISTING TO REMAIN.

CIRCUITS: INITIATING DEVICE, NOTIFICATION APPLIANCE, AND SIGNALING LINE CIRCUITS: NFPA 72, CLASS A.

1. INSTALL NO MORE THAN 50 ADDRESSABLE DEVICES ON EACH SIGNALING LINE CIRCUIT.

SMOKE-ALARM VERIFICATION:

1. INITIATE AUDIBLE AND VISIBLE INDICATION OF AN "ALARM-VERIFICATION" SIGNAL AT FIRE-ALARM CONTROL UNIT.
2. ACTIVATE AN NRTL-LISTED AND -APPROVED "ALARM-VERIFICATION" SEQUENCE AT FIRE-ALARM CONTROL UNIT AND DETECTOR.
3. SOUND GENERAL ALARM IF THE ALARM IS VERIFIED.
4. CANCEL FIRE-ALARM CONTROL UNIT INDICATION AND SYSTEM RESET IF THE ALARM IS NOT VERIFIED.

ELEVATOR RECALL: EXISTING BUILDING ELEVATOR RECALL FUNCTIONALITY IS EXISTING TO REMAIN.

DOOR CONTROLS: DOOR HOLD-OPEN DEVICES THAT ARE CONTROLLED BY SMOKE DETECTORS AT DOORS IN SMOKE BARRIER WALLS SHALL BE CONNECTED TO FIRE-ALARM SYSTEM.

NOTIFICATION APPLIANCES

GENERAL REQUIREMENTS FOR NOTIFICATION APPLIANCES: CONNECTED TO NOTIFICATION APPLIANCE SIGNAL CIRCUITS, ZONED AS INDICATED, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.

1. COMBINATION DEVICES: FACTORY-INTEGRATED AUDIBLE SPEAKER AND VISIBLE DEVICES IN A SINGLE-MOUNTING ASSEMBLY, EQUIPPED FOR MOUNTING AS INDICATED AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.

A. FIRE ALARM VOICE/TONE NOTIFICATION APPLIANCES:

1. DESCRIPTION: NOTIFICATION APPLIANCES CAPABLE OF OUTPUTTING VOICE EVACUATION MESSAGES.
2. PERFORMANCE CRITERIA:

a. REGULATORY REQUIREMENTS:

1. NFPA 72.
2. UL 1480.

b. GENERAL CHARACTERISTICS:

1. SPEAKERS FOR VOICE NOTIFICATION: LOCATE SPEAKERS FOR VOICE NOTIFICATION TO PROVIDE INTELLIGIBILITY REQUIREMENTS OF "NOTIFICATION APPLIANCES" AND "EMERGENCY COMMUNICATIONS SYSTEMS" CHAPTERS IN NFPA 72.
2. HIGH-RANGE UNITS: RATED 2 TO 15 W.
3. LOW-RANGE UNITS: RATED 1 TO 2 W.
4. MOUNTING: SURFACE MOUNTED AND BIDIRECTIONAL.
5. MATCHING TRANSFORMERS: TAP RANGE MATCHED TO ACOUSTICAL ENVIRONMENT OF SPEAKER LOCATION.
6. COMBINATION DEVICES: FACTORY-INTEGRATED AUDIBLE AND INVISIBLE DEVICES IN SINGLE-MOUNTING ASSEMBLY, EQUIPPED FOR MOUNTING AS INDICATED, AND WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS.

VISIBLE NOTIFICATION APPLIANCES: XENON STROBE LIGHTS COMPLY WITH UL 1971, WITH CLEAR OR NOMINAL WHITE POLYCARBONATE LENS MOUNTED ON AN ALUMINUM FACEPLATE. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1-INCH- (25-MM) HIGH LETTERS ON THE LENS.

1. RATED LIGHT OUTPUT: 15/30/75/110 CD, SELECTABLE IN THE FIELD.
2. MOUNTING: WALL MOUNTED UNLESS OTHERWISE INDICATED.
3. FOR UNITS WITH GUARDS TO PREVENT PHYSICAL DAMAGE, LIGHT OUTPUT RATINGS SHALL BE DETERMINED WITH GUARDS IN PLACE.
4. FLASHING SHALL BE IN A TEMPORAL PATTERN, SYNCHRONIZED WITH OTHER UNITS.
5. STROBE LEADS: FACTORY CONNECTED TO SCREW TERMINALS.
6. MOUNTING FACEPLATE: FACTORY FINISHED, WHITE.
7. FINISH: WHITE.

PART 3 - EXECUTION

EQUIPMENT INSTALLATION

COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT.

EQUIPMENT MOUNTING:

AUDIBLE ALARM-INDICATING DEVICES: INSTALL NOT BE LESS THAN 6 INCHES (150 MM) BELOW THE CEILING. INSTALL BELLS AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE-OPERATING MECHANISM CONCEALED BEHIND A GRILLE.

VISIBLE ALARM-INDICATING DEVICES: INSTALL ADJACENT TO EACH ALARM BELL OR ALARM HORN AND AT LEAST 6 INCHES (150 MM) BELOW THE CEILING.

DEVICE LOCATION-INDICATING LIGHTS: LOCATE IN PUBLIC SPACE NEAR THE DEVICE THEY MONITOR.

FIRESTOPPING

APPLY FIRESTOPPING TO PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY.

IDENTIFICATION

IDENTIFY SYSTEM COMPONENTS, WIRING, CABLING, AND TERMINALS.

PROVIDE A LIST OF DEVICE DESCRIPTION FOR EACH ADDRESSABLE DEVICE TO THE OWNER PRIOR TO PROGRAMMING THE SYSTEM. THE OWNER SHALL APPROVE THE DEVICE LIST PRIOR TO PROGRAMMING.

FIELD QUALITY CONTROL

FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION.

PERFORM TESTS AND INSPECTIONS.

1. MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS, AND TO ASSIST IN TESTING.

SECTION 28.31.11 (CONTINUED)

TESTS AND INSPECTIONS:

VISUAL INSPECTION: CONDUCT VISUAL INSPECTION PRIOR TO TESTING.

1. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY NFPA 72 IN ITS "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER.
2. COMPLY WITH "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72. RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS.

SYSTEM TESTING: COMPLY WITH "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.

TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

FACTORY-AUTHORIZED SERVICE REPRESENTATIVE SHALL PREPARE THE "FIRE ALARM SYSTEM RECORD OF COMPLETION" IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72 AND THE "INSPECTION AND TESTING FORM" IN THE "RECORDS" SECTION OF THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72.

REACCEPTANCE TESTING: PERFORM REACCEPTANCE TESTING TO VERIFY THE PROPER OPERATION OF ADDED OR REPLACED DEVICES AND APPLIANCES.

FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

PREPARE TEST AND INSPECTION REPORTS.

END OF SECTION



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REVISION SCHEDULE

Date Revision Description

Issue: Contract Documents

Date: August 20, 2026

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Project Architect: DEQ

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