



St. John
Lutheran Church
6135 Rings Road
Dublin, Ohio 43016

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3. ADDITIONALLY, SEE GENERAL INFORMATION ON "A0" SHEETS.

4. THE CLIENT ACKNOWLEDGES THE CONSULTANTS' (ARCHITECT'S) DRAWING AND SPECIFICATION INCLUDING ALL
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CONSTRUCTION SET

DATE: 05/27/2016
PROJECT #: 13055
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ISSUE DATE: 05/27/2016

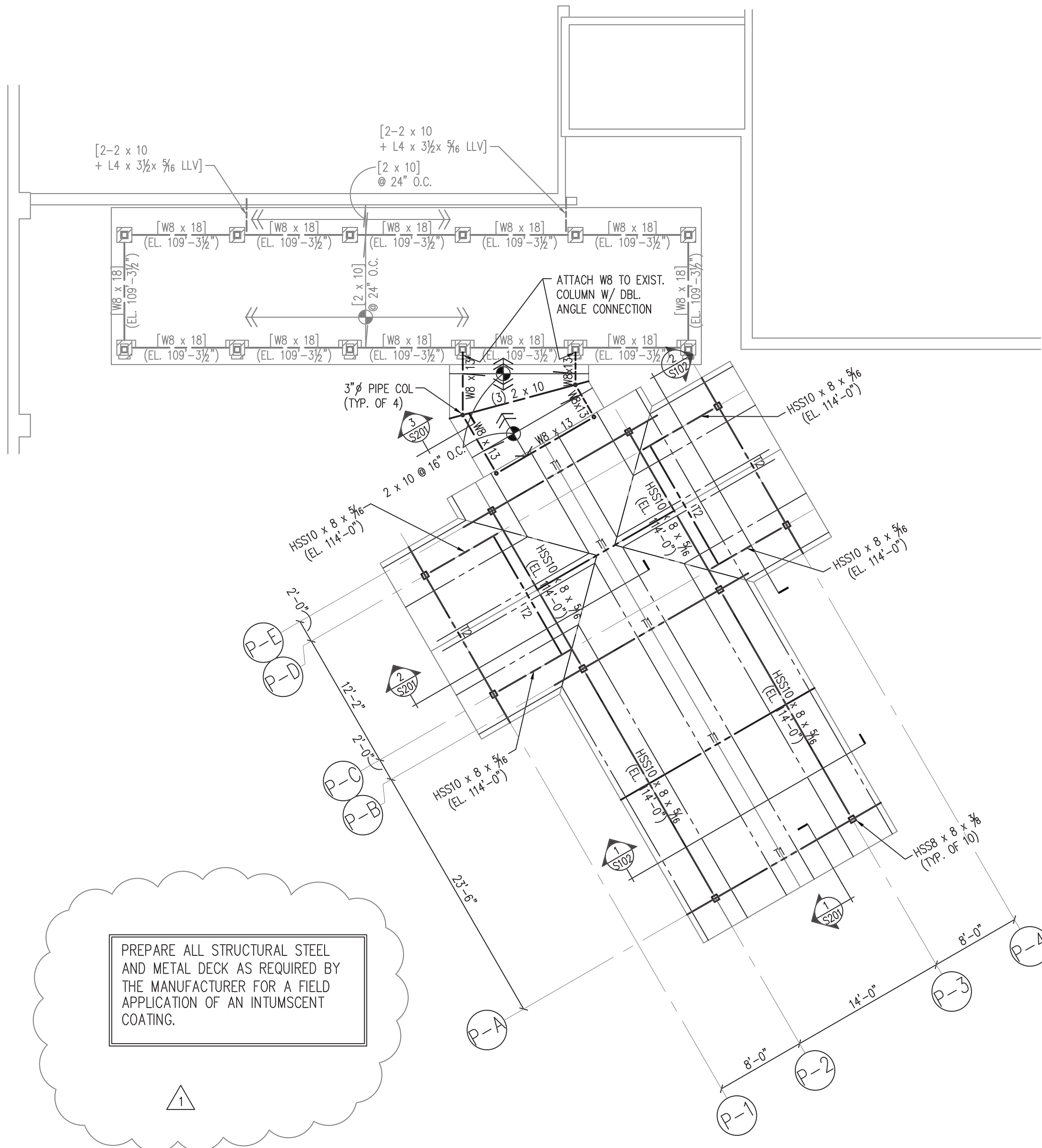
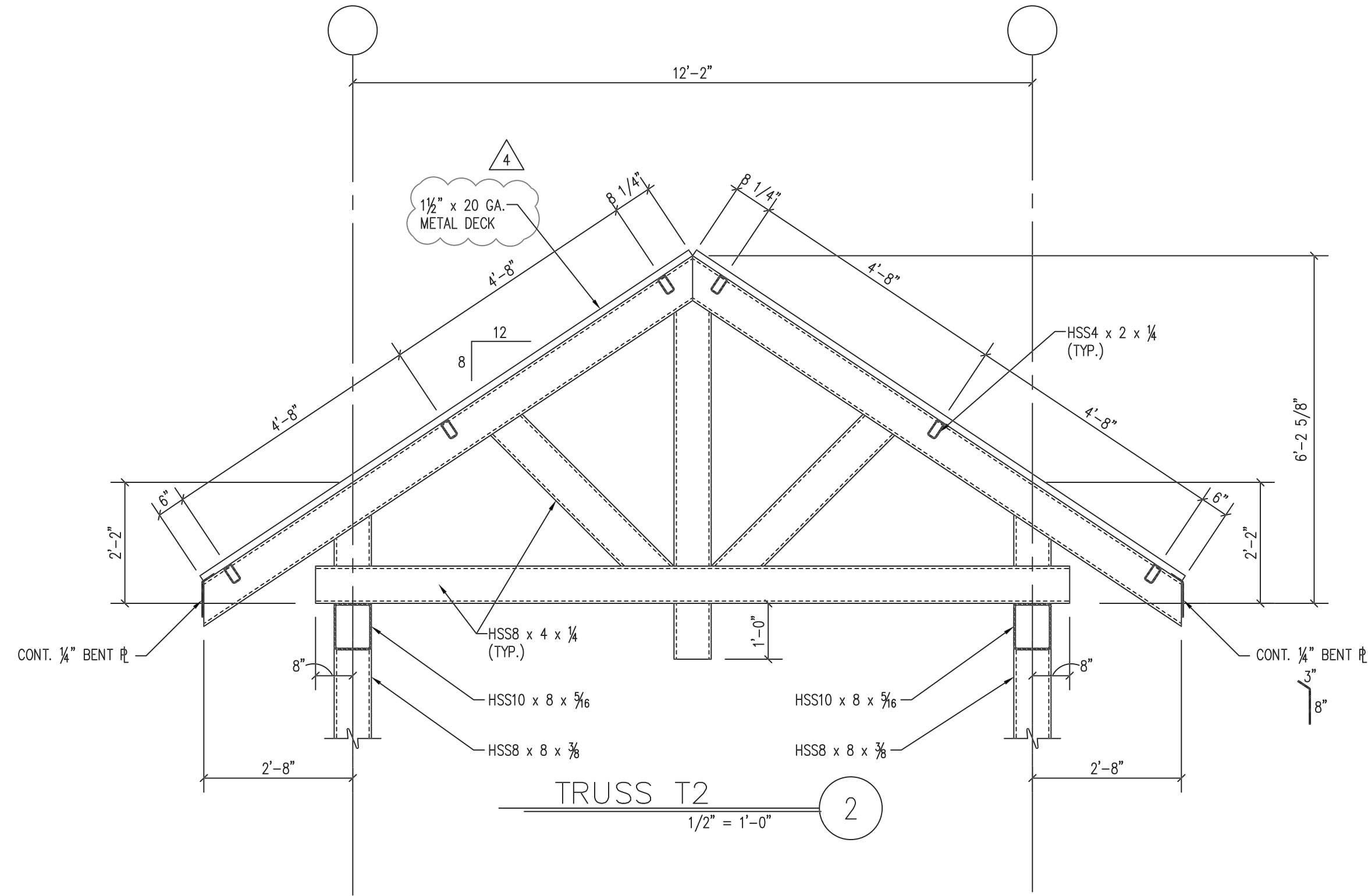
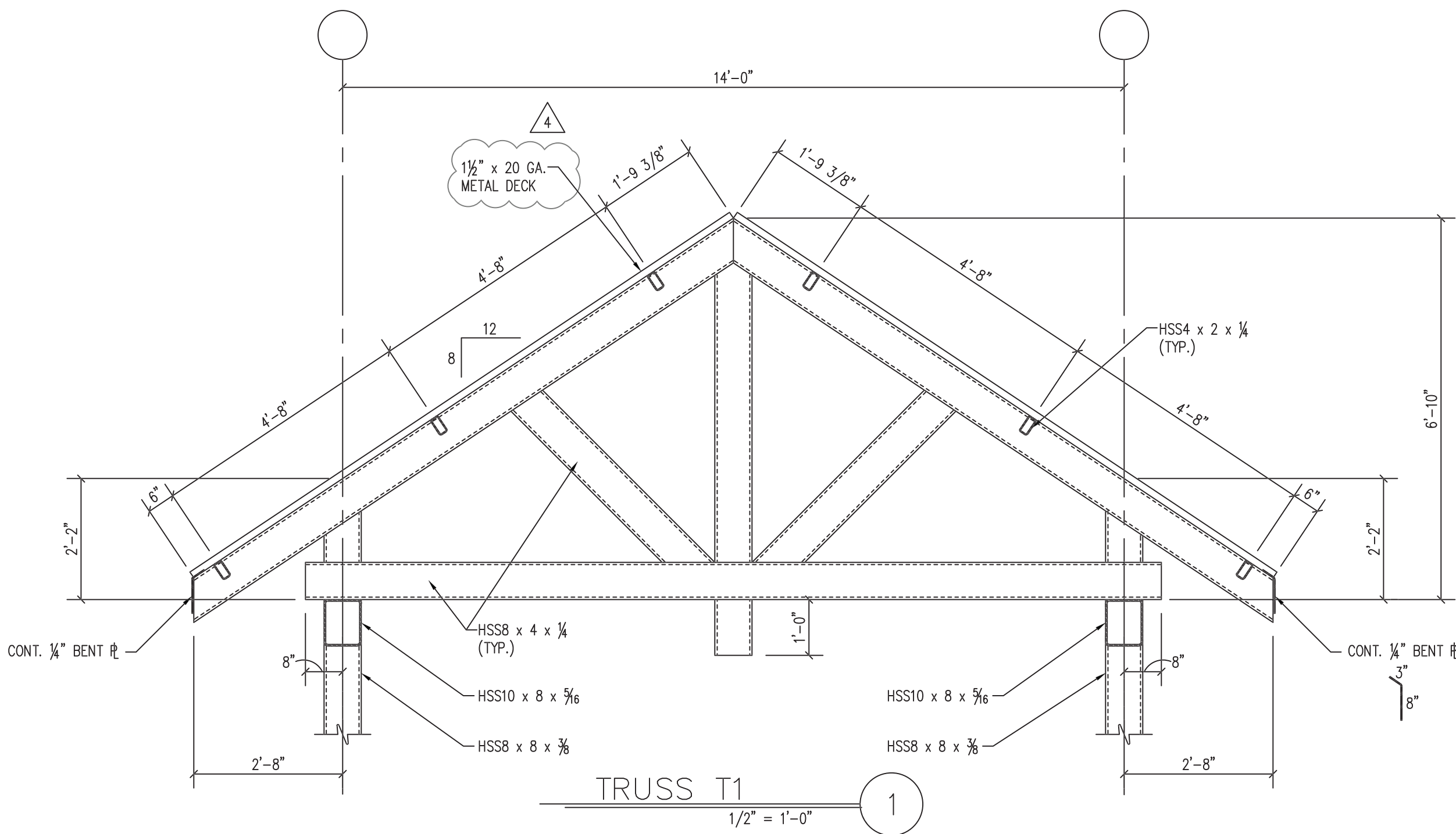
REVISIONS:
1 REV. #1 05/13/13
2 REV. #2 06/26/13
4 REV. #4 05/27/16

ROOF
FRAMING
PLAN

S-102



369 East Livingston Ave., Columbus, Ohio 43215
Phone (614)221-1110 Fax (614)221-0831
www.berardipartners.com



ROOF FRAMING PLAN

ROOF FRAMING NOTES

- DESIGN LIVE LOAD: 30 PSF + SNOW DRIFT.
- ROOF CONSTRUCTION: 1 1/2" x 20 GA. MTL. DECK, SEE 5/5201 FOR ATTACHMENT
- REFERENCE ELEVATION = FINISHED FLOOR, EL. 100'-0"
- THE GENERAL CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING SHOP DRAWINGS. IF CONDITIONS OR DIMENSIONS VARY FROM THOSE SHOWN ON THE CONSTRUCTION DRAWINGS, CONTACT THE ARCHITECT PRIOR TO COMMENCING WITH CONSTRUCTION.
- SEE SHEET S000 FOR GENERAL STRUCTURAL NOTES.
- SEE 4/5201 FOR BEAM TO COLUMN ATTACHMENT.



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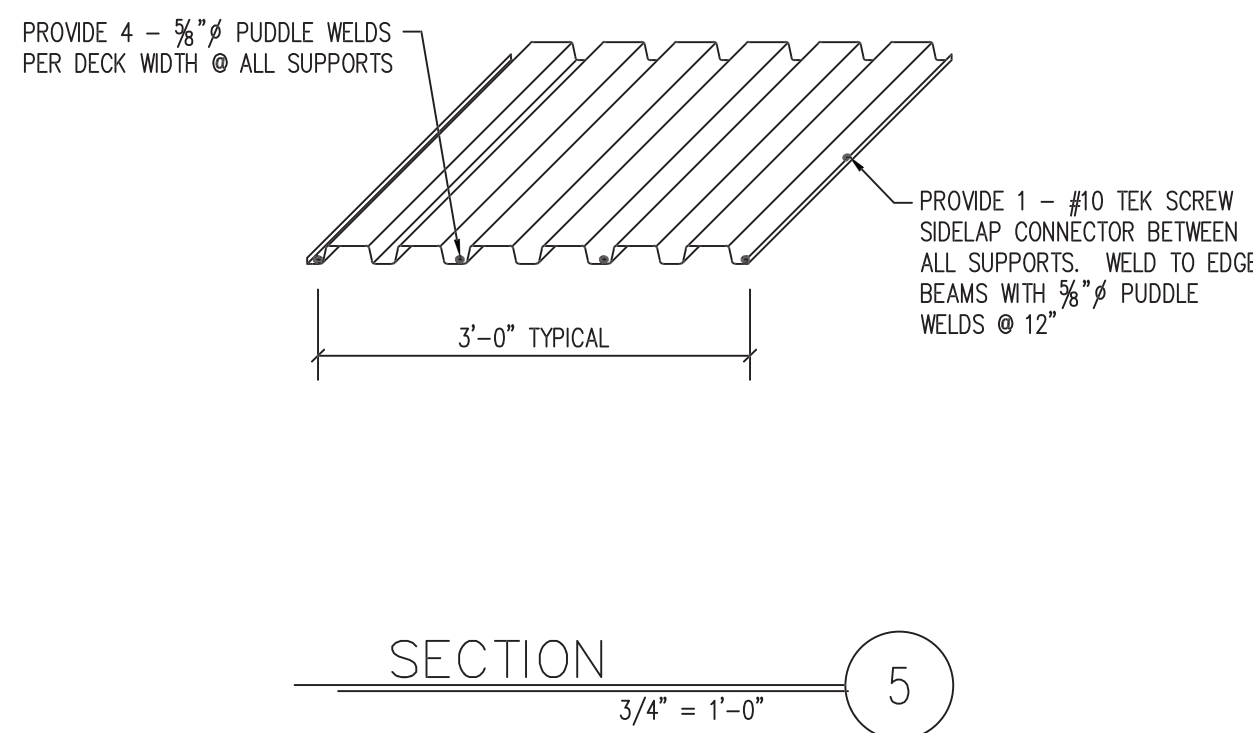
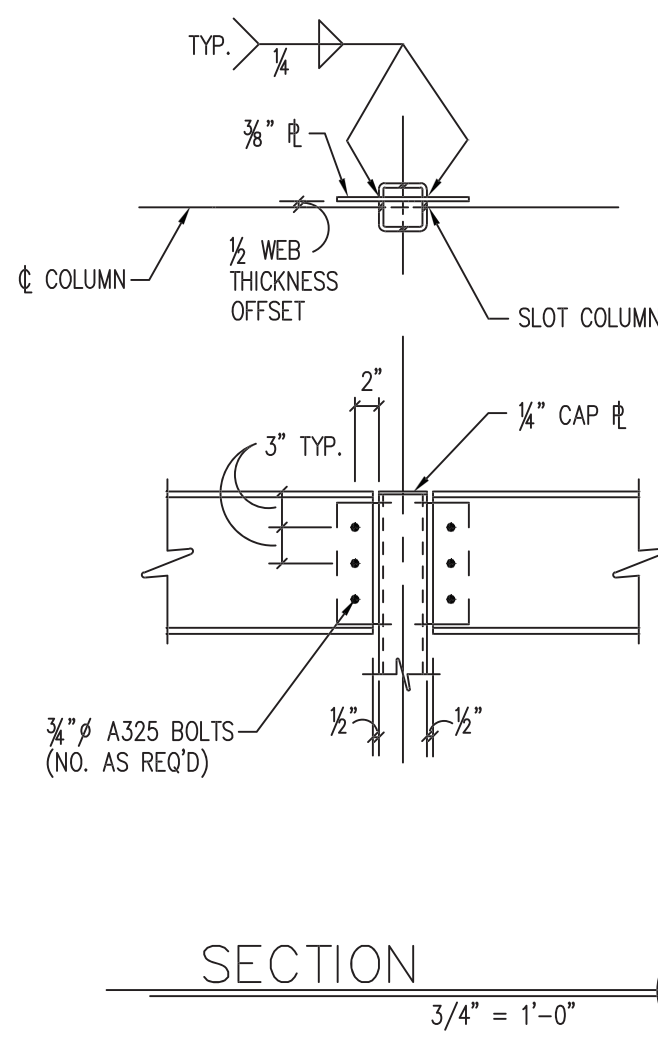
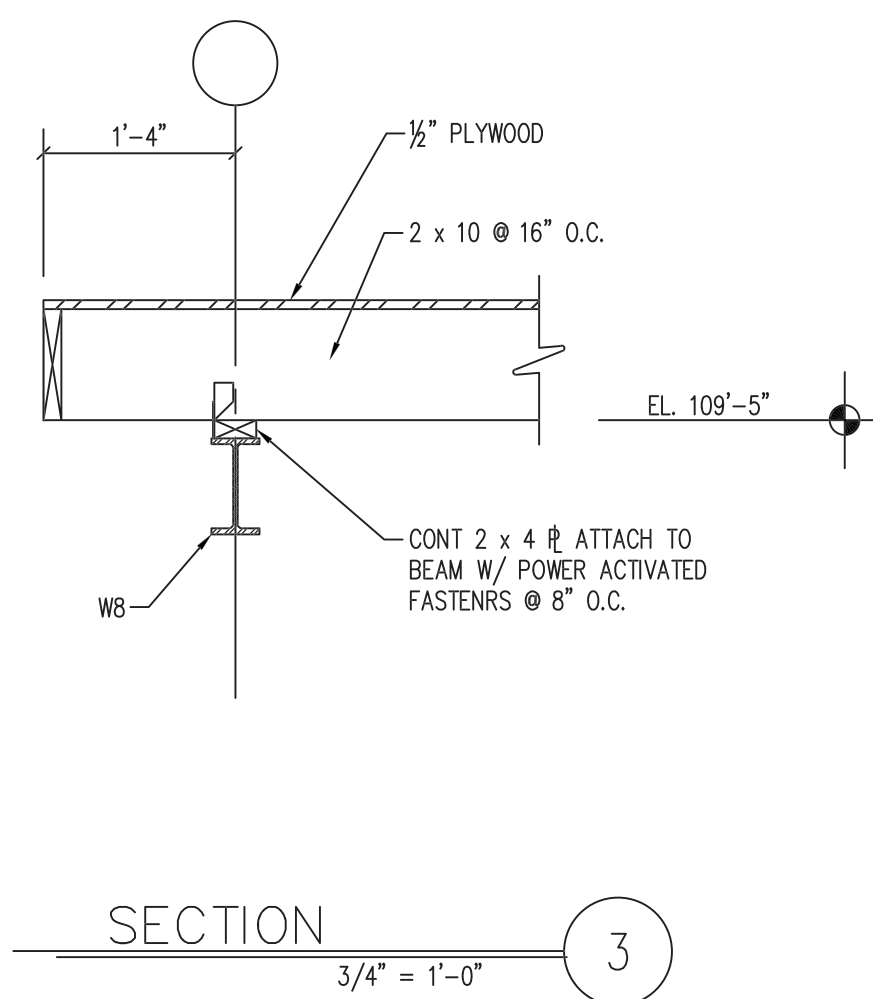
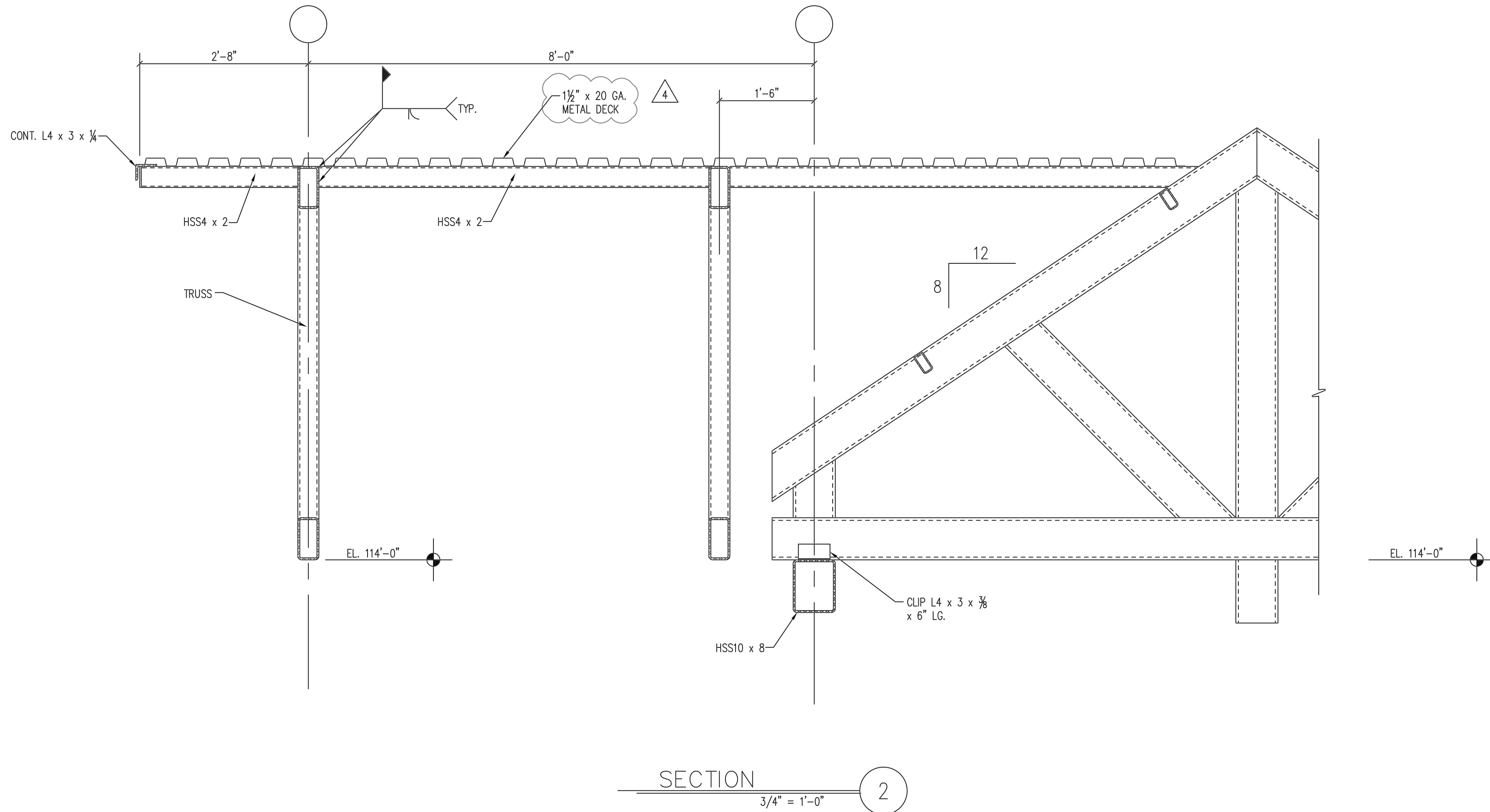
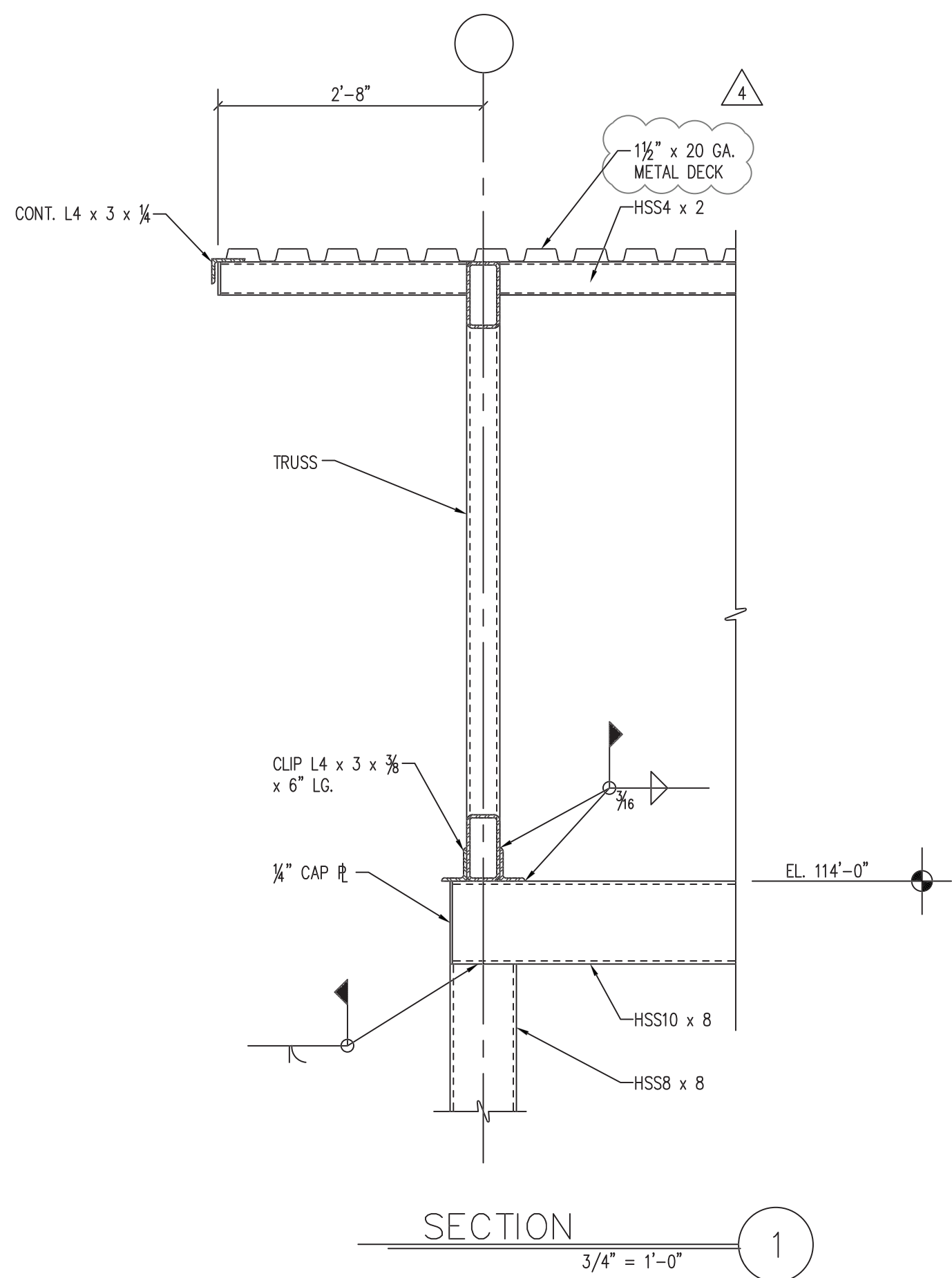
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FOUNDATION DETAILS

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berardi+
architecture + interior design + engineering

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CABINETRY NOTES:

- CABINET AND COUNTERTOP SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS PRIOR TO ANY INSTALLATION. THIS SHALL INCLUDE COORDINATION WITH ANY PLUMBING FIXTURES, ELECTRICAL SYSTEMS, ETC., ENSURING THAT CLEARANCES AND INSTALLATION REQUIREMENTS RECOMMENDED BY FIXTURE MANUFACTURERS ARE FOLLOWED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REQUIRED CABINETS AND COUNTERTOPS FOLLOWING MAKING FIELD MEASUREMENTS, SUCH DRAWINGS SHALL REFLECT FIELD MEASUREMENTS.
- CABINET SUBCONTRACTOR SHALL SUBMIT EVIDENCE OF COMPLIANCE FOR THE LABEL CERTIFICATION FROM AN ACCEPTABLE TESTING AGENCY CERTIFYING TO ANSI A61.6. CABINETS WILL BE SHIPPED BEARING THE NKCA LABEL.
- PROVIDE SCRIBE MOULDINGS AND/OR CAULKING AS APPLICABLE AT COUNTERTOPS, ENDS AND WALL JOINTS, AND AT CABINET ENDS AND WALL JOINTS.
- PROVIDE BLOCKING WHERE CABINETS OR COUNTERS INTERSECT WALL. COORDINATE BLOCKING WITH CABINET MANUFACTURER'S REQUIREMENTS.
- COORDINATE HARDWARE REQUIREMENTS WITH CABINET MANUFACTURER TO ENSURE ADEQUATE CLEARANCES AND OPERATION OF DRAWERS, CABINET DOORS, ETC.
- PROVIDE SCRIBE MOULDING AND/OR FILLER STRIPS WHERE REQUIRED.

GENERAL NOTES:

- PRIOR TO SUBMITTING A BID, ALL SUBCONTRACTORS SHALL VISIT THE PROJECT SITE & BECOME FAMILIAR WITH EXISTING CONDITIONS, COMPARE & CONFIRM THE CONTRACT DOCUMENTS, ANY SUBSEQUENT REQUIREMENTS & ALL REGULATORY AGENCY REQUIREMENTS APPLICABLE FOR COMPLETION OF THE PROPOSED WORK. IF VARIATIONS OR DISCREPANCIES ARE FOUND, SAME INFORMATION SHALL BE FURNISHED IMMEDIATELY & IN WRITTEN FORMAT TO THE DEVELOPER & TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK. SHOULD DIMENSIONAL DISCREPANCIES EXIST OR IF NOTED DIMENSIONS DO NOT COORDINATE WITH SPACE REQUIREMENTS OF EQUIPMENT, ETC., SAME INFORMATION SHALL BE FURNISHED IMMEDIATELY AND IN WRITTEN FORMAT TO THE DEVELOPER AND TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH ALL LOCAL AND STATE BUILDING CODES AND REGULATIONS, AS WELL AS AS ANY OTHER SPECIFIC OR IMPLIED APPLICABLE REGULATIONS, INCLUDING HEALTH AND SAFETY REQUIREMENTS, AS MAY BE IMPLIED OR STATED WITH ISSUANCE OF THE BUILDING PERMIT.
- PRIOR TO COMMENCEMENT OF ANY WORK, ALL PERMITS SHALL BE APPLIED FOR AND OBTAINED BY EACH SUBCONTRACTOR, AND ALL APPLICABLE FEES SHALL BE PAID BY THE SUBCONTRACTOR.
- THE SCALE OF ALL DRAWINGS IS SUBJECT TO CONFIRMATION. ALL QUESTIONS SUBJECT TO THE CONTRACT DOCUMENTS SHALL BE DIRECTED TO THE ARCHITECT.
- EACH STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO INSURE THE SAFETY OF THE BUILDINGS AND THEIR COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, BUTS OR TIE DOWNS, WHICH MIGHT BE NECESSARY FOLLOWING THE COMPLETION OF THE PROJECT, REDISTRIBUTION OF SUCH MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- IT IS SOLELY THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS, AND FOR INSTALLING ANY NECESSARY BLOCKING, TRACING OR GENERAL CONSTRUCTION TO FACILITATE INSTALLATION OF SAID MECHANICAL AND ELECTRICAL SYSTEMS. MECHANICAL AND ELECTRICAL SUBCONTRACTORS SHALL DETERMINE DURING THE BID PROCESS ANY ADDITIONAL COSTS RELATED TO VARIATIONS IN THE MECHANICAL AND ELECTRICAL REQUIREMENTS AND SHALL NOTIFY THE ARCHITECT ACCORDINGLY.
- SPECIFICATIONS (THE PROJECT MANUAL) ARE A PART OF THE CONTRACT DOCUMENTS. INFORMATION CONTAINED IN THE SPECIFICATIONS MAY NOT NECESSARILY BE CONTAINED AS PART OF THE DRAWINGS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL DETERMINE THAT THEIR PROJECT COSTS INCLUDE ALL MATERIALS, LABOR AND OTHER PROCESSES REQUIRED TO COMPLETE ALL CATEGORIES OF THE WORK INDICATED BY ALL OF THE CONTRACT DOCUMENTS, OR THAT WORK WHICH MAY OTHERWISE BE IMPLIED FOR THE TOTAL COMPLETION OF THE PROJECT. FOR OTHER REQUIREMENTS, REFER TO THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, PARTICULARLY PARAGRAPH 1.11.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH GENERAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION FOR BIDDING PURPOSES SHALL GOVERN. FOLLOWING BID AWARD THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT FOR CLARIFICATION REGARDING THE NOTED DISCREPANCY.

HANDICAP GENERAL NOTES:

- ALL DOOR HARDWARE SHALL BE LEVER TYPE.
 - CARPET SHALL BE DIRECT SLIDE DOWN. IF INSTALLED WITH PAD, COMBINED CARPET AND PAD HEIGHT SHALL NOT EXCEED 1/2".
- GENERAL CONSTRUCTION NOTES:
- DRAWINGS SHALL NOT BE SCALED. ALL QUESTIONS WITH RESPECT TO THE CONTRACT DOCUMENTS SHALL BE DIRECTED TO THE ARCHITECT FOR MAKING INTERPRETATIONS ON ALL ITEMS OF DISCREPANCY OR OF AN AMBIGUOUS NATURE.
 - DIMENSIONS AT EXTERIOR WALLS ARE OUT TO OUT OF STUD. DIMENSIONS AT INTERIOR WALLS ARE TO FACE OF STUD.
 - ALL BEARING WALLS ARE AS INDICATED ON THE STRUCTURAL DRAWINGS.
 - INSULATION: ON WALLS BETWEEN UNITS PROVIDE SOUND INSULATION BEHIND ALL OUTLETS, PLUMBING STACKS AND WATER SUPPLY LINES.
 - INSULATION THAT IS EXPOSED TO ROOMS, ATTICS OR CRAWL SPACES SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 450 OR LESS.
 - INSULATION IN CONCEALED SPACES SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 450 OR LESS. INSULATION FACING IS NOT REQUIRED TO HAVE A FLAME SPREAD RATING IF IT IS IN A CONCEALED SPACE AND THE FACING IS IN CONTACT WITH A WALL OR CEILING.
 - ALL FOAM PLASTIC INSULATION SHALL BE PROTECTED IN ACCORDANCE WITH THE BASIC BUILDING CODE.
 - BLOCKING: PROVIDE SOLID BLOCKING BEHIND ALL HANDRAILS, GRAB BARS, WALL CABINETS, WALL HUNG SINKS, SHELVES AND RODS.
 - PROVIDE WOOD BLOCKING IN ALL STANDARD AND HANDICAP DESIGNATED BATHROOMS OF ONE STORY LIVING UNITS FOR INSTALLATION OF FUTURE GRAB BARS.
 - WINDOWS: ALL WINDOWS IN BEDROOMS SHALL HAVE A CLEAR OPEN AREA WHEN OPENED OF AT LEAST 5.7 SQUARE FEET, A CLEAR MINIMUM HEIGHT OF 24" AND CLEAR MINIMUM WIDTH OF 20".

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- ALSO SEE NOTES ON THIS SHEET.

FIRE/SOUND RATINGS

TYPES

DESIGN

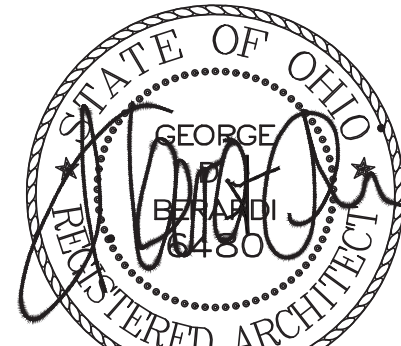
DESCRIPTION AND NOTES

W1		<p>A. 3-5/8" OR 6" METAL STUDS @ 16" O.C., W/ TOP AND BOT. TRACKS. SEE STRUCTURAL DRAWINGS FOR STUD GAUGE.</p> <p>B. ONE LAYER OF 5/8" UL RATED FIRE RESISTANT GYP. BD. APPLIED TO BOTH SIDES.</p> <p>C. PROVIDE 3-5/8" FIBERGLASS BATT INSULATION ONLY IN BATHROOM WALLS ADJACENT TO OTHER LIVING SPACES. (GLOSETS NOT INCLUDED)</p> <p>NON RATED PARTITION</p>	RATING: 0 HR STC RATING: 40
W2		<p>A. 3-5/8" OR 6" METAL STUDS @ 16" O.C., W/ TOP AND BOT. TRACKS - SEE STRUCTURAL DRAWINGS FOR STUD GAUGE.</p> <p>B. ONE LAYER OF 5/8" UL RATED FIRE RESISTANT G.W.B.</p> <p>NON RATED WALL FURRING</p>	RATING: 0 HR STC RATING: 40
C1		<p>A. EXISTING 2XB WOOD STUDS TO REMAIN</p> <p>B. 1/2" T&G SUB-SHEATHING USING AFG-01 ADHESIVE AND 8D COMMONS 12" O.C. IN FIELD, 8" O.C. ALONG BOUNDARY.</p> <p>C. 4" RIGID INSULATION SLOPED TO DRAINS @ 1/4"/12" SLOPE MAX.</p> <p>D. 5/8" TYPE 'X' GYPSUM BOARD BASE LAYER. ATTACH TO JOISTS AT RIGHT ANGLES W/ 1 1/4" TYPE 'S' 6XLB. SCREWS 24" O.C.</p> <p>E. 5/8" TYPE 'X' GYPSUM BOARD FACE LAYER. ATTACH TO JOISTS AT RIGHT ANGLES W/ 1 1/8" TYPE 'S' 6XLB. SCREWS 12" O.C. AT JOISTS AND INTERMEDIATE JOISTS AND 1 1/2" TYPE 'S' 6XLB. SCREWS 12" O.C. PLACED 2" BACK ON EITHER SIDE OF END JOINTS. JOINTS OFFSET 24" FROM BASE LAYER JOINTS.</p> <p>RATED CEILING</p>	RATING: 1 HR GA DESIGN #RC2601 STC RATING: N/A
S1		<p>A. STEEL COLUMNS - 3" DIAMETER X 0.25" DEPTH STEEL PIPE COLUMN. COLUMNS SHALL BE FREE OF DIRT, LOOSE SCALE AND OIL. COLUMNS SHALL BE PRIMED WITH A METAL ALKID OR EPOXY PRIMER AT A NOMINAL THICKNESS OF 1 MIL.</p> <p>B. MASTIC AND INTUMESCENT COATING - COATING SPRAY OR BRUSH APPLIED DIRECTLY FROM CONTAINERS TO 0.340" DRY FILM THICKNESS.</p> <p>STRUCTURAL STEEL COLUMN</p>	RATING: 2 HR UL DESIGN #Y616 STC RATING: N/A
S2		<p>A. STEEL BEAM - STEEL BEAM SHALL BE FREE OF DIRT, LOOSE SCALE AND OIL. STEEL SURFACES TO BE PRIMED WITH A RED OXIDE PRIMER AS REQUIRED PER MANUFACTURER'S APPLICATION INSTRUCTIONS.</p> <p>B. MASTIC AND INTUMESCENT COATING - COATING SPRAY APPLIED DIRECTLY FROM CONTAINERS TO 0.318" DRY FILM THICKNESS. AFTER EACH COAT, THE SURFACE SHALL BE LIGHTLY ROLLED WITH A PAINT ROLLER.</p> <p>STRUCTURAL STEEL COLUMN</p>	RATING: 2 HR UL DESIGN #X625 STC RATING: N/A

SYMBOLS

ABBREVIATIONS

A.F.F. ACOUS. ADJ. AHU. ALT. ALUM. A.B. BRS. BDRM. BLK. BLDG. B/C BD. BOT. BLDG. C.B. CLG. C. C.O. C.N. COL. CONC. C.M.U. CONT. C.J. COORD. C.M.P. C.F.M. DET. DIAMETER DIV. DR. DBL. DOWN. D.S. DNG. DRAWING E.I.F.S. E.H.W. E.W.C. ELEV. EQUIP. EXIST. F.E. F.E.C. FLUOR. FL. F.D. FT. FTS. GA. G.F.I. G.S.F. G.W.B. GYP. BD. H.C. HT. H.P.S. H.M. HORIZ. INSUL. INT. INV. JOINT LAM. LVL L.T. L.F. L.L.V. L.L.H. M.H. MFR. M.O. MAX. MECH. MTL. MIN. MTD. N.S.F. N.I.C. N.T.S. NO. O.C. OPNS. OPP. O.S.B. PR. P.S.F. P.S.I. P. P.LAM. PLYWOOD. P.T. RAD. REQD. REINFORCING. R&S. R.D. SCHED. SHT. SIM. SPECS. SQ. S.F. S.S. STD. STL. THK. T&G. TOP OF TYP. U.N.O. V.B. VERT. V.I.F. V.T. W/ W/O	DIAMETER ABOVE FINISH FLOOR ACOUSTICAL CEILING TILE ADJUSTABLE AIR HANDLING UNIT ALTERNATE ALUMINUM ANCHOR BOLT BEARING BEDROOM BLOCK BLOCKING BACK OF CURB BOARD BOTTOM BUILDING CATCH BASIN CEILING CENTER LINE CLEAN OUT COLD WATER COLUMN CONCRETE CONCRETE MASONRY UNIT CONTINUOUS CONTROL JOINT COORDINATE CORRUGATED METAL PIPE CUBIC FEET PER MINUTE DETAIL DIAMETER DIVISION DOOR DOUBLE DOWN DOWNSPUT DRAWING EXTERIOR INSULATING FINISHING SYSTEM ELECTRIC WATER COOLER ELEVATION EQUIPMENT EXISTING FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FLUORESCENT FLOOR FLOOR DRAIN FOOT FOOTING GAUGE GROUND FAULT INTERRUPTER GROSS SQUARE FEET GYPSUM WALL BOARD GYPSUM WALL BOARD HANDICAP HEIGHT HIGH PRESSURE SODIUM HOLLOW METAL HORIZONTAL INSULATION INTERIOR INVERT JOINT LAMINATE LAMINATED VENEER LUMBER LIGHT LINEAL FEET LONG LEG VERTICAL LONG LEG HORIZONTAL MANHOLE MANUFACTURER MASONRY OPENING MAXIMUM MECHANICAL METAL MINIMUM MOUNTED NET SQUARE FEET NOT IN CONTRACT NOT TO SCALE NUMBER ON CENTER OPENING OPPOSITE ORIENTED STRAND BOARD PAIR PER SQUARE FOOT PER SQUARE INCH PLATE OR PROPERTY LINE PLASTIC LAMINATE PLYWOOD PRESERVATIVE TREATED RADIUS REQUIRED REINFORCING ROD AND SHELF ROOF DRAIN SCHEDULE SHEET SIMILAR SPECIFICATIONS SQUARE SQUARE FEET STAINLESS STEEL STANDARD STEEL THICK TONGUE & GROOVE TOP OF TYPICAL UNLESS NOTED OTHERWISE VAPOR BARRIER VERTICAL VERIFY IN FIELD VINYL TILE WITH WITHOUT
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George D. Berardi
Licenses # 6800
Exp. 12/31/2013

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Permit Comments 06/06/2013
Permit Comments 07/26/2013
Value Engineering 05/27/2016

ABBREVIATIONS, SYMBOLS, NOTES & WALL TYPES

A001



architecture + interior design + engineering
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www.berardipartners.com

System No. C-AJ-3095
F Rating - 3 Hr
T Ratings - 0, 1/2 and 3/4 Hr (See Item 3)

SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m³) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max 3 in. (76 mm) above the floor or both surfaces of the wall. If the steel sleeve extends above the floor or both surfaces of the wall, the T Rating of the firestop system is 0 Hr.

3. Cables — Aggregate cross-sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:

A. Max 500 kcmil single copper conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T Rating is 0 hr.

B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XLPE) insulation. When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T Rating is 1/2 hr.

C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T Rating is 0 hr.

D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi-connector power cable is used, T Rating is 0 hr.

E. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T Rating is 3/4 hr.

F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T Rating is 3/4 hr.

G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable+. When MC cable is used, T Rating is 0 hr.

AFC CABLE SYSTEMS INC

H. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket. When SER cable is used, T Rating is 0 hr.

Hilti Firestop Systems

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System No. C-AJ-3095
F Rating - 3 Hr
T Ratings - 0, 1/2 and 3/4 Hr (See Item 3)

SECTION A-A

I. Max RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of 1/2 in. When coaxial cable is used, T Rating is 0 hr.

J. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other type of cable. When Fire Resistive Cables* are used, T Rating is 0 hr.

K. Through Penetrating Product* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.

See Through Penetrating Product (XHLV) category in the Fire Resistance Directory for names of manufacturers.

4. Packing Material — Min 2 in. (51 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. (13 mm) from top surface of floor or from both surfaces of wall as required to accommodate the fill material. If the steel sleeve (Item 2) extends above the top of the floor, the packing material shall be flush with the bottom surface of the floor.

5. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.

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Hilti Firestop Systems

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Page: 2 of 2

single non-metalic pipes or conduit

System No. C-AJ-2098
F Rating - 3 Hr
T Rating - 3 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - 4 CFM/sq ft

SECTION A-A

1. Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 3 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Electrical Nonmetallic Tubing+ -- Nom 2 in. diam (or smaller) corrugated wall ENT constructed of polyvinyl chloride (PVC). One tube to be centered within the firestop system. A nom annular space of 5/16 in. is required within the firestop system. Tube to be rigidly supported on both sides of floor or wall assembly.

See Electrical Nonmetallic Tubing (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.

3. Packing Material - - (Not Shown) -- Mineral wool insulation firmly packed into opening as a temporary form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. In floors form may be removed after fill material has cured.

4. Fill, Void or Cavity Material* -- Sealant -- Min 2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

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FIRESTOP SYSTEMS

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single metal pipes or conduit

System No. C-AJ-1226
F Rating - 3 Hr
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - 4 CFM/sq ft

SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.

2. Metallic Sleeve —(Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.

2A. Sheet Metal Sleeve —(Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

2B. Sheet Metal Sleeve —(Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

3. Through-Penetrant —One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:

A. Steel Pipe —Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe —Nom 30 in. diam (or smaller) cast or ductile iron pipe.

C. Copper Pipe —Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

D. Copper Tubing —Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Conduit —Nom 6 in. diam (or smaller) steel conduit.

F. Conduit —Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).

4. Firestop System — The firestop system shall consist of the following:

A. Packing Material —Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Sealant —Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC —FS-One Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

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George O. Berardi
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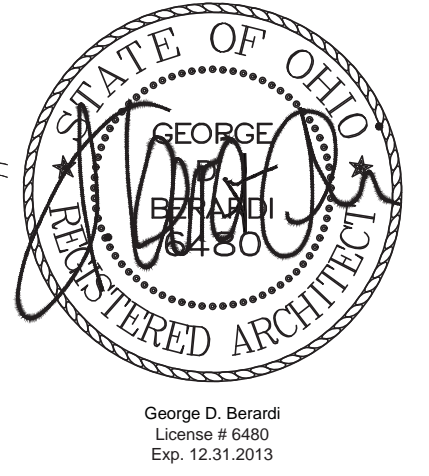
Firestop Penetration Assemblies

A001B

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single or bundled cables

concrete and masonry assemblies



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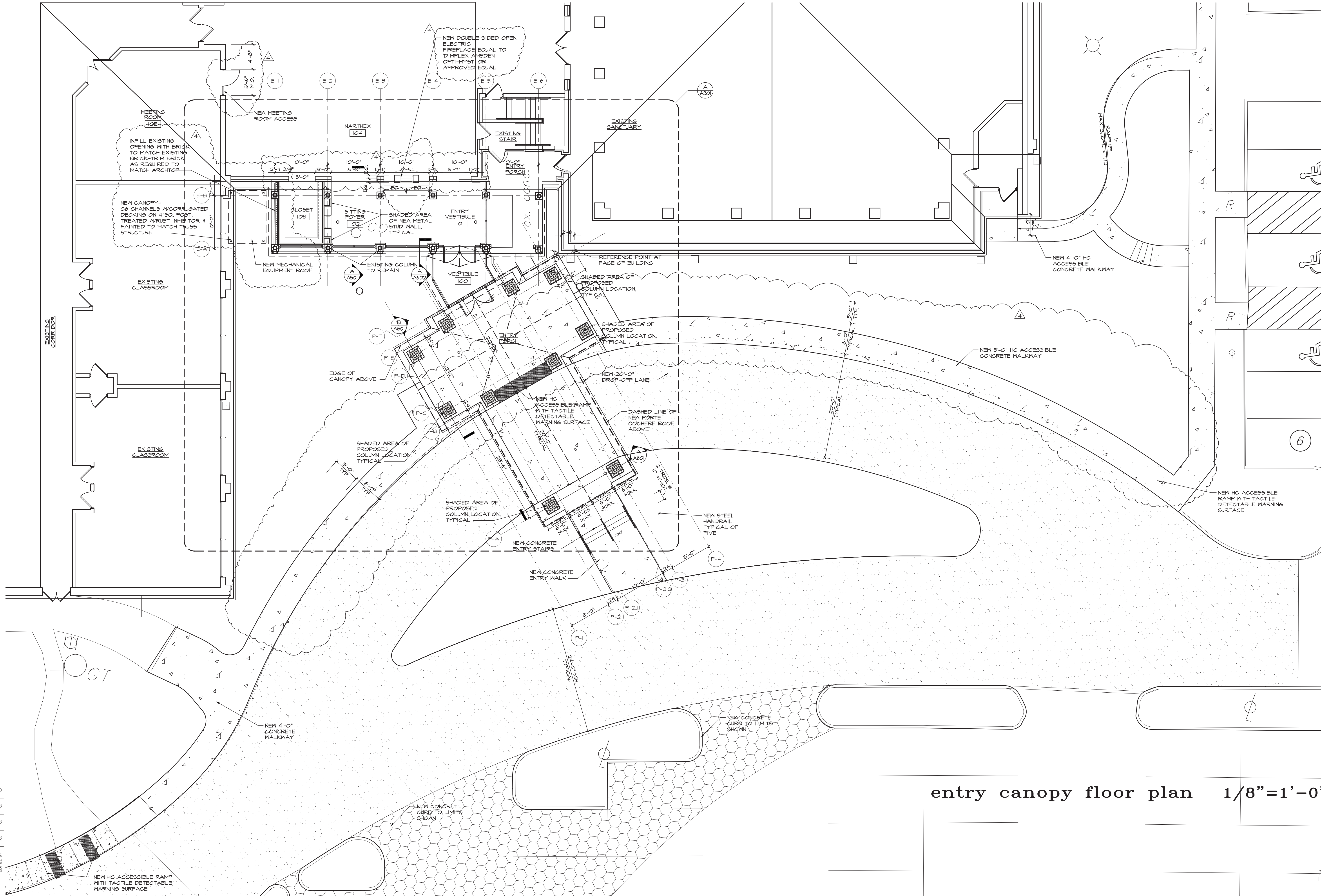
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**OVERALL
FRONT ENTRY
FLOOR PLAN**

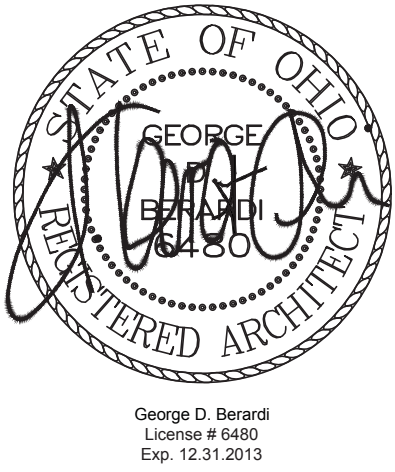
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entry canopy floor plan 1/8"=1'-0"



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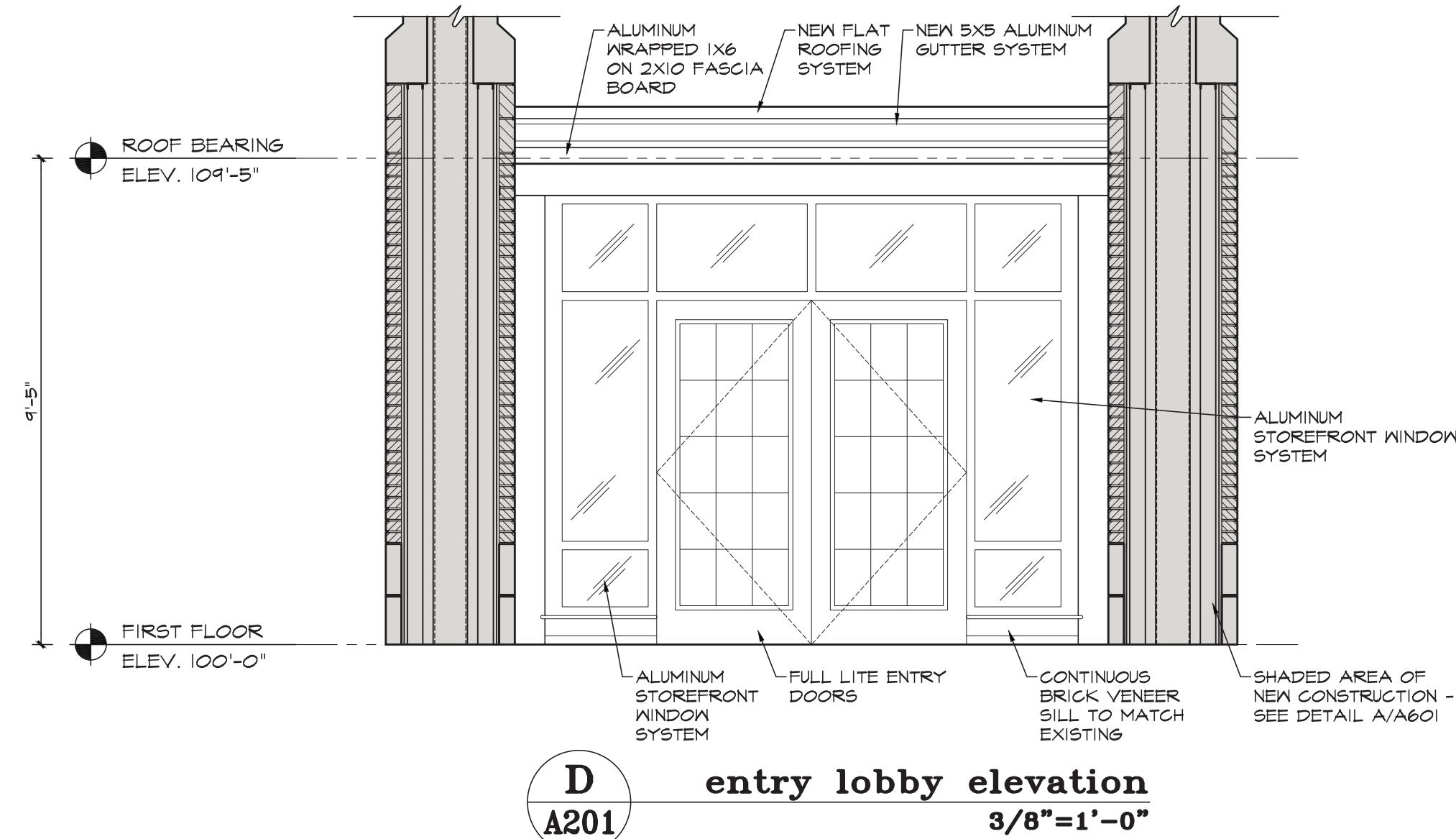
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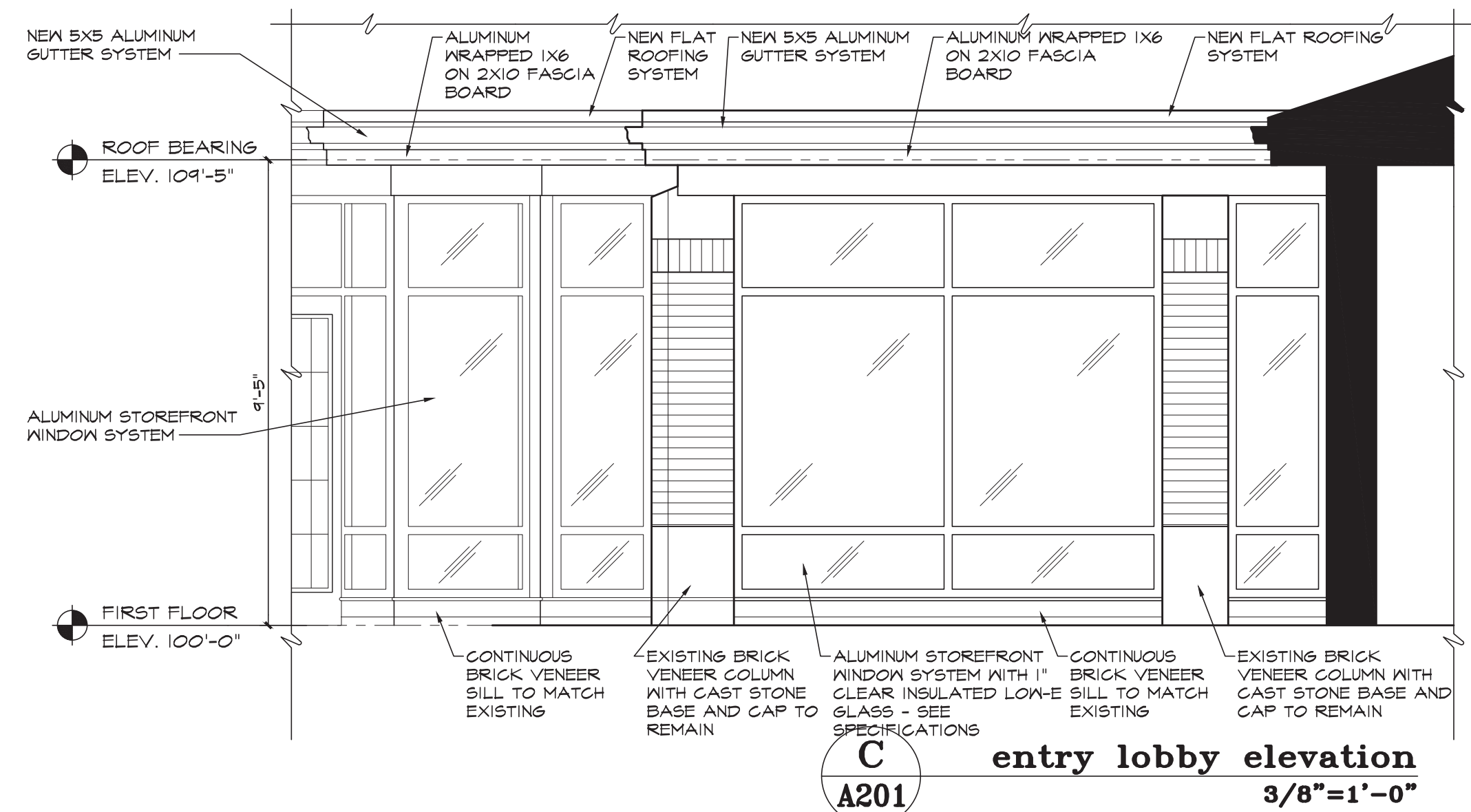
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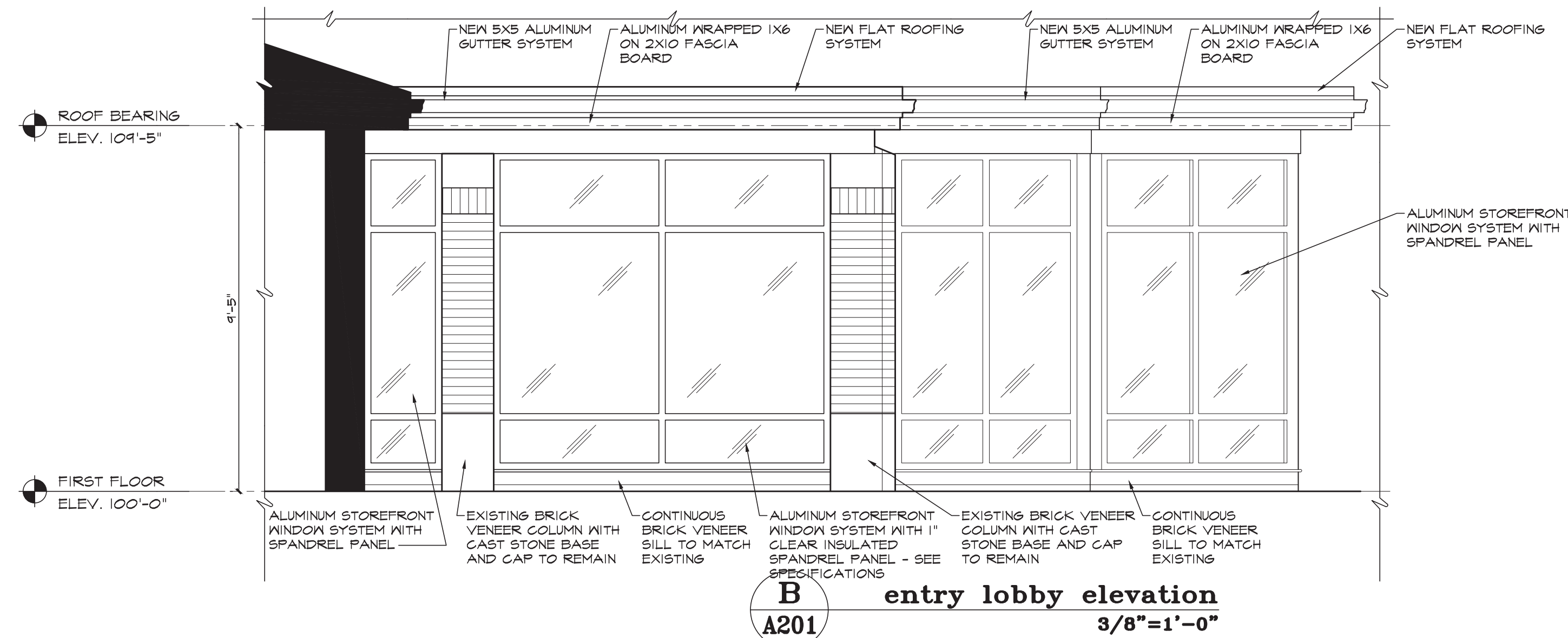
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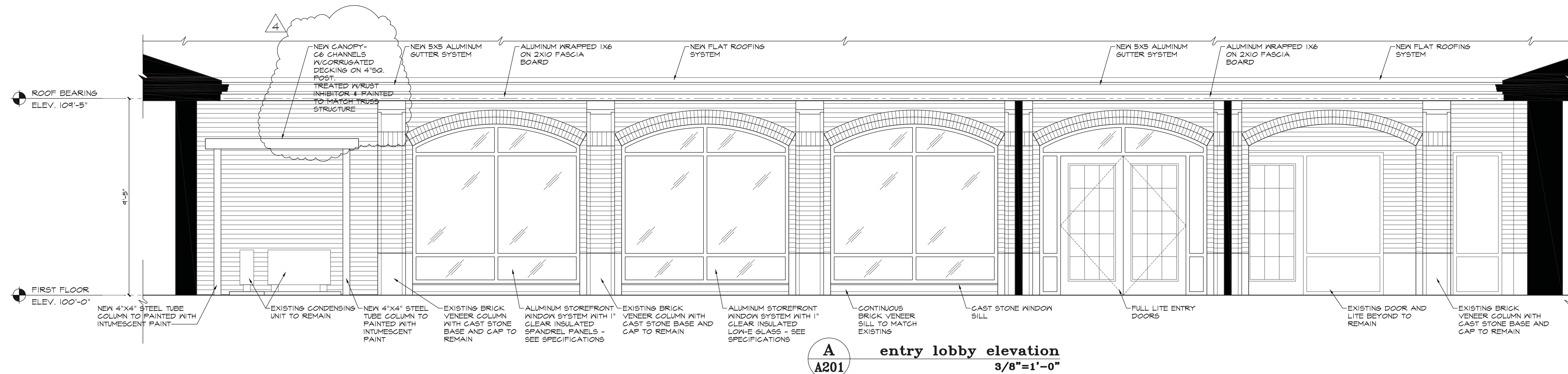
D
A201 entry lobby elevation
3/8"=1'-0"



C
A201 entry lobby elevation
3/8"=1'-0"

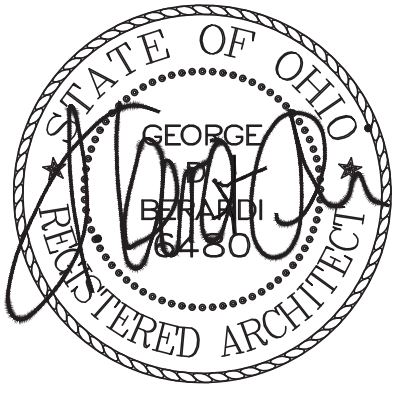


B
A201 entry lobby elevation
3/8"=1'-0"



A
A201 entry lobby elevation
3/8"=1'-0"

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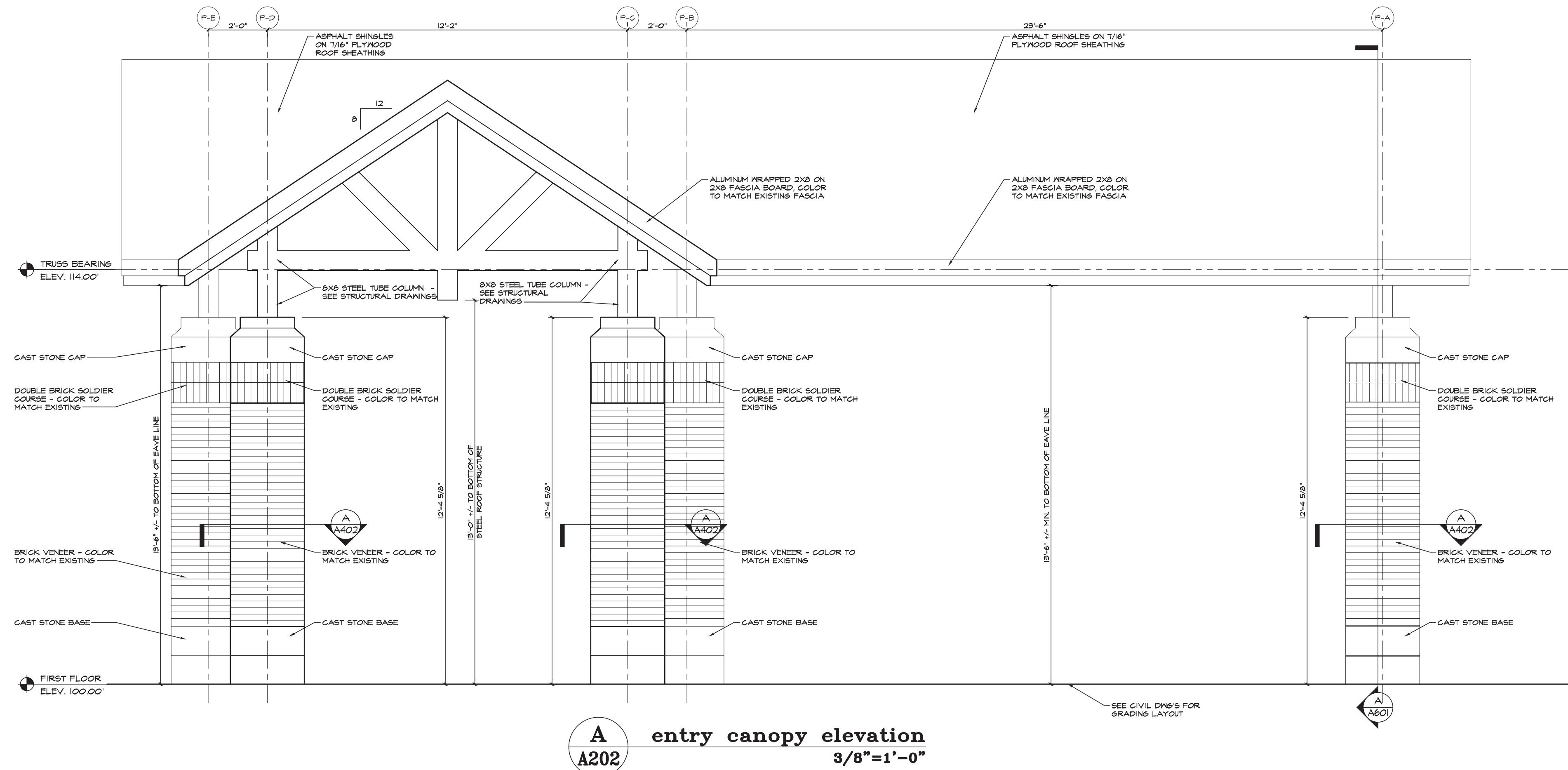
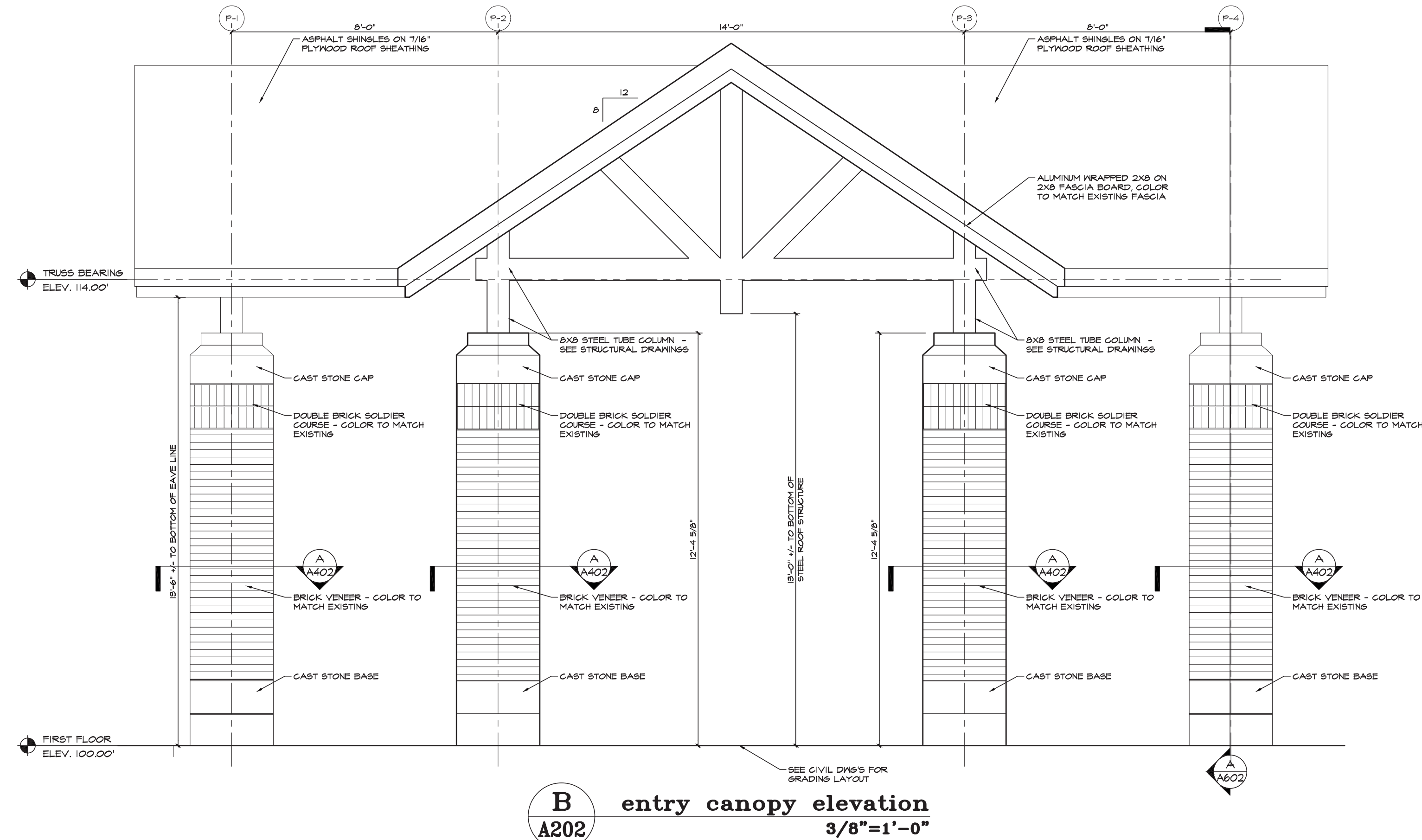
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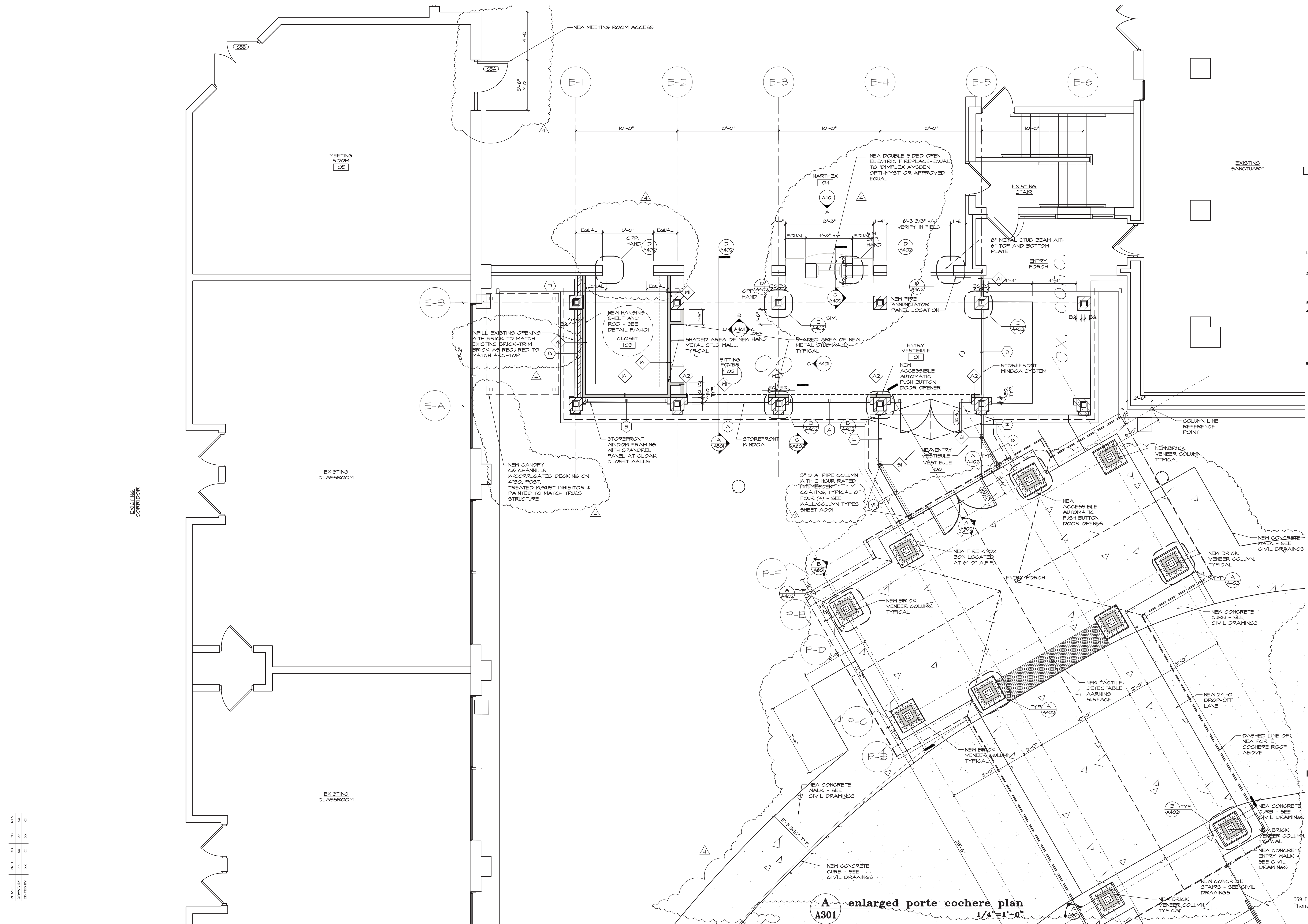
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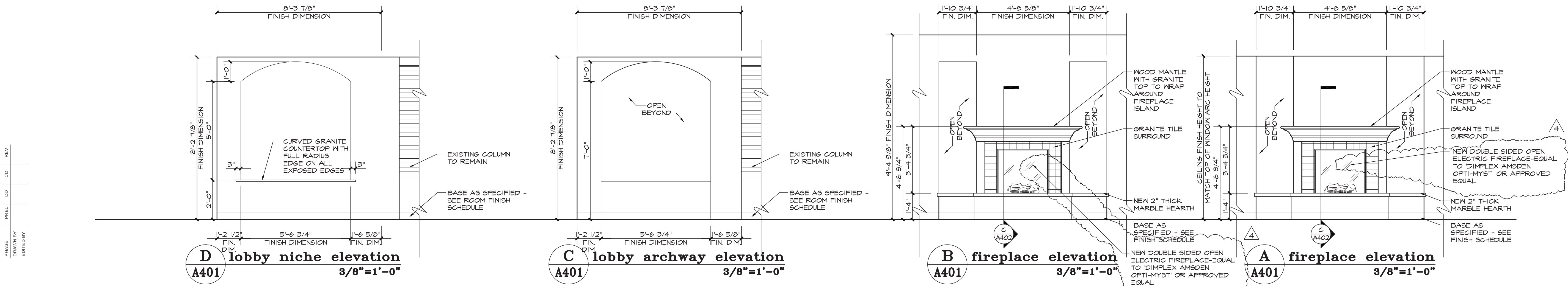
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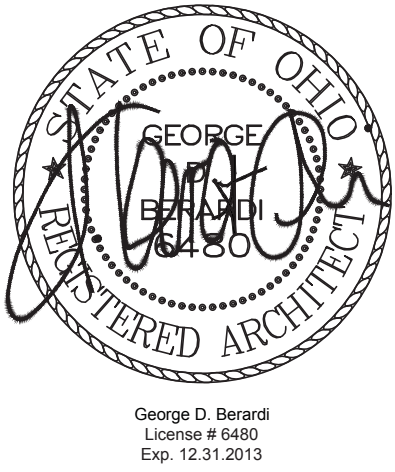
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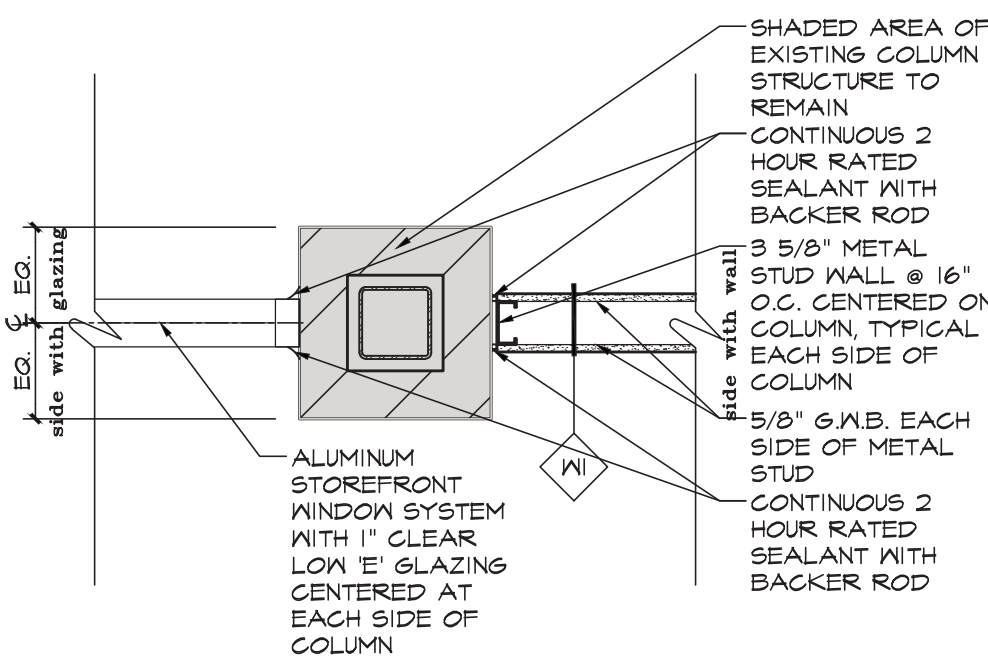
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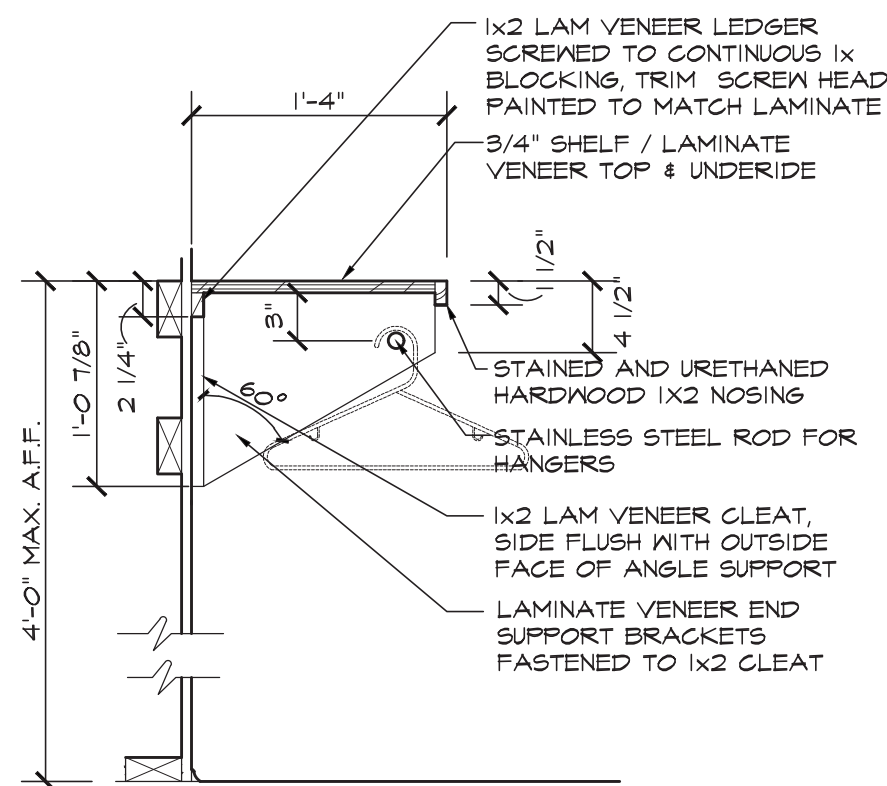
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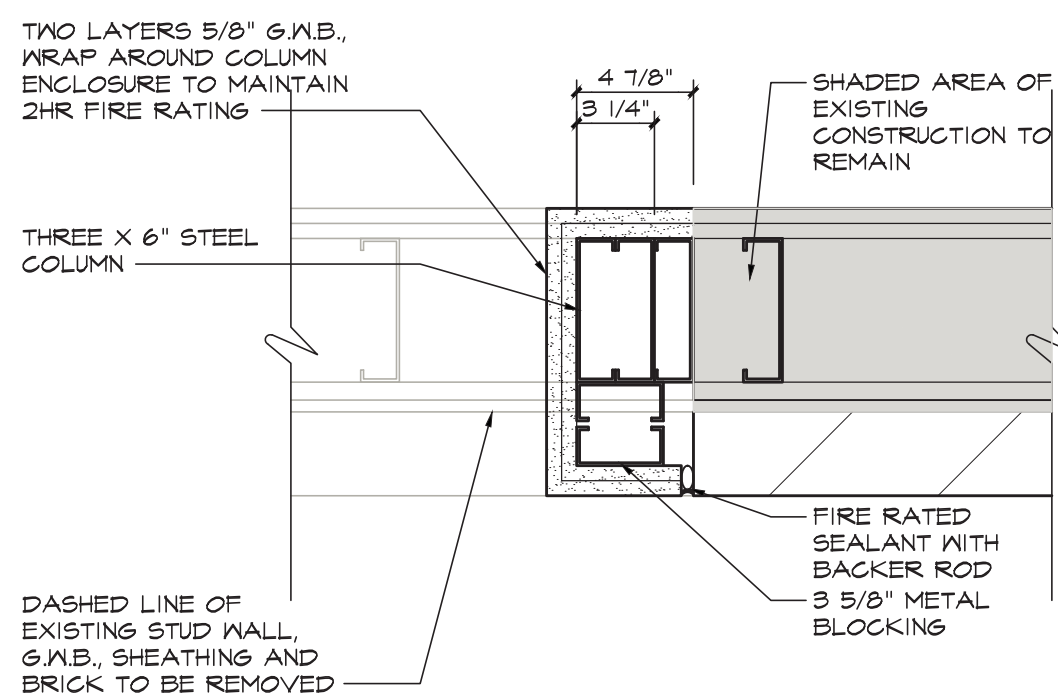
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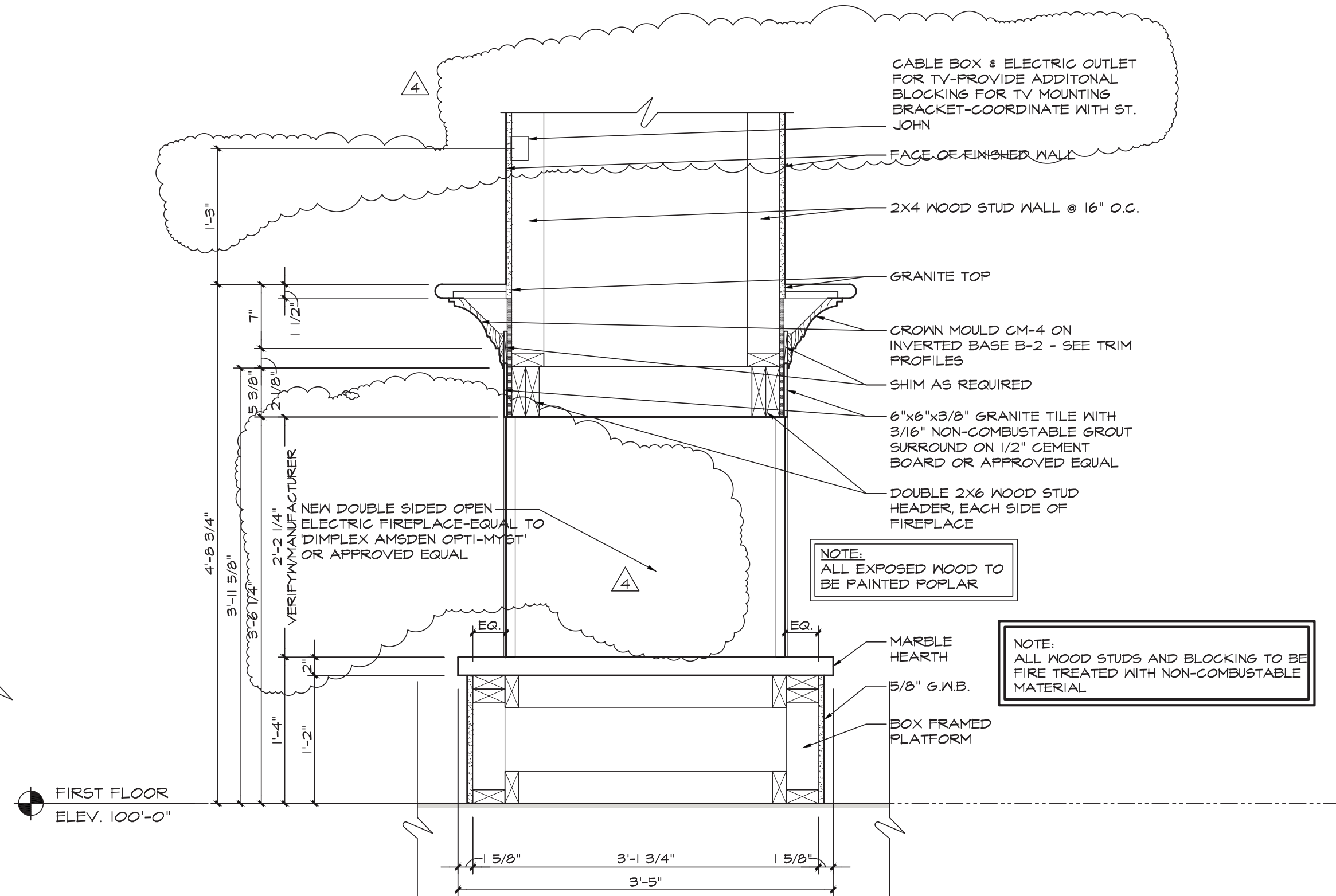
E
A402 column detail
3/4"=1'-0"



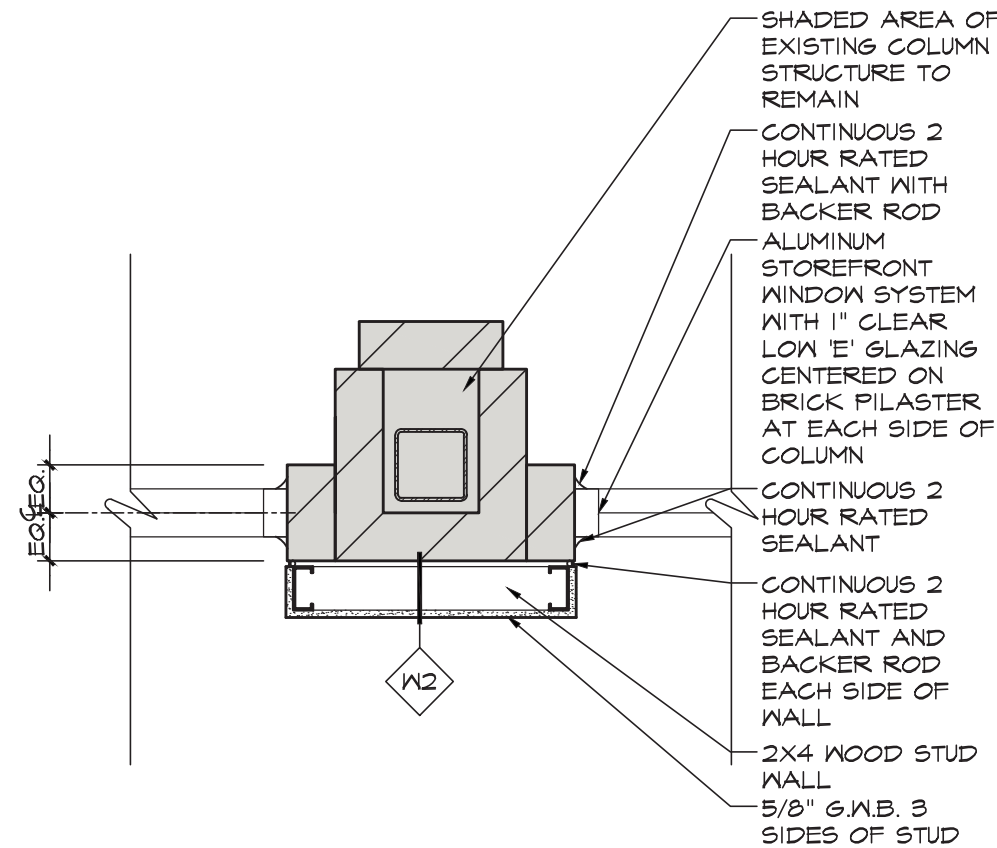
F
A401 hanging shelf
1"=1'-0"



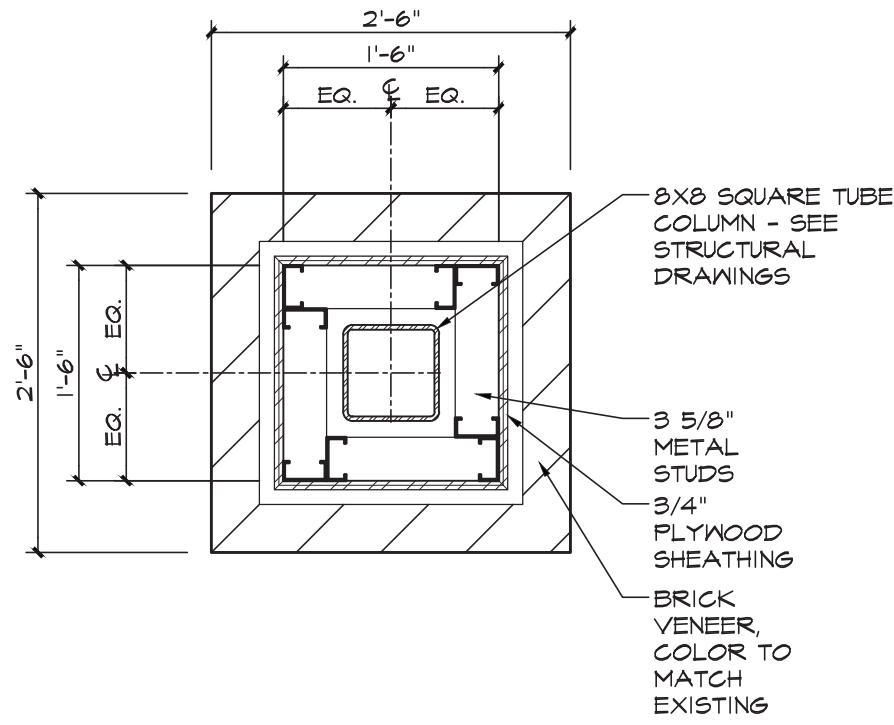
D
A402 column at cut-out
1 1/2"=1'-0"



C
A402 fireplace section
1"=1'-0"



B
A402 column detail
3/4"=1'-0"



A
A402 column detail
3/4"=1'-0"

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INTERIOR ELEVATIONS AND DETAILS

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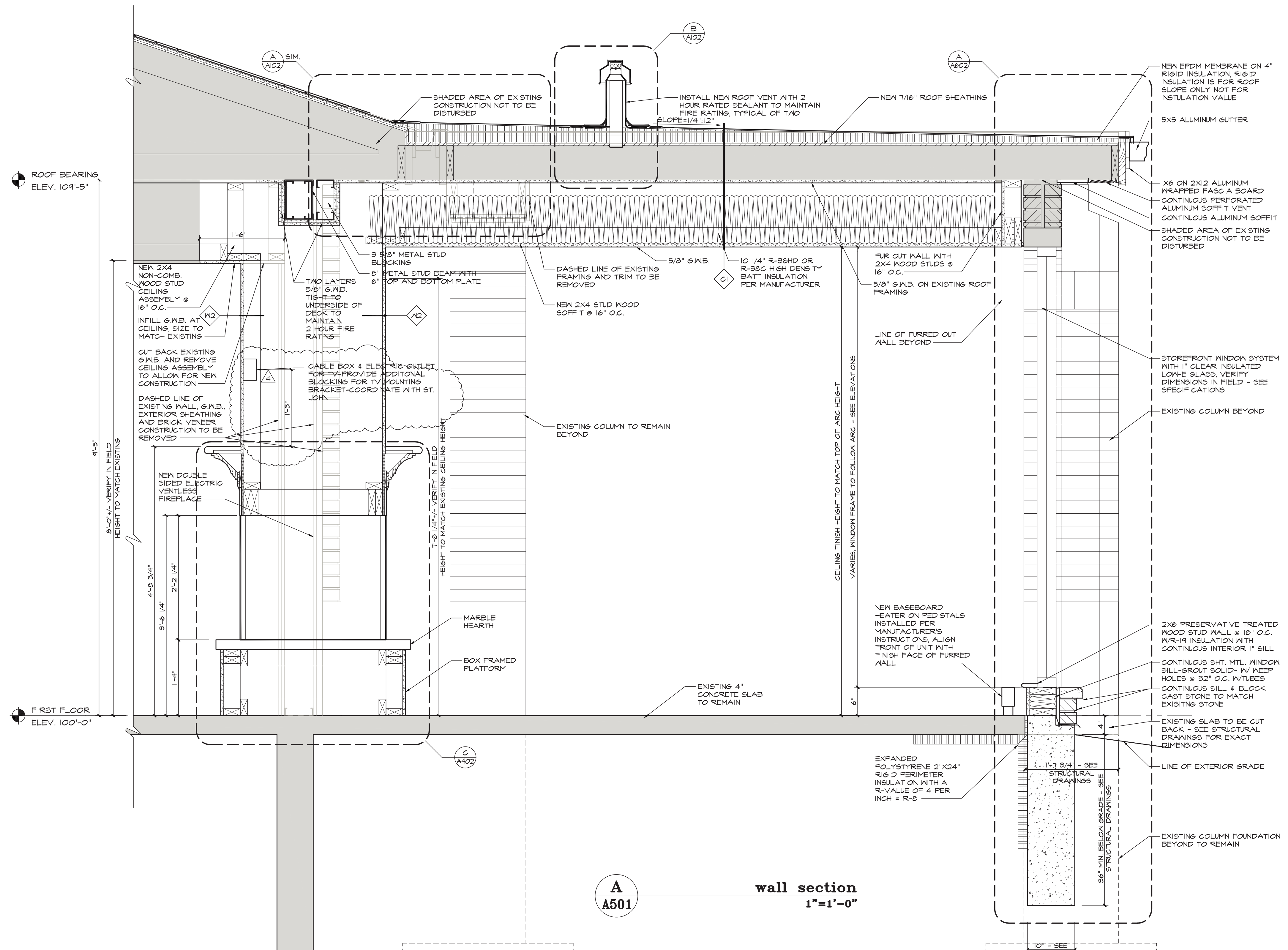
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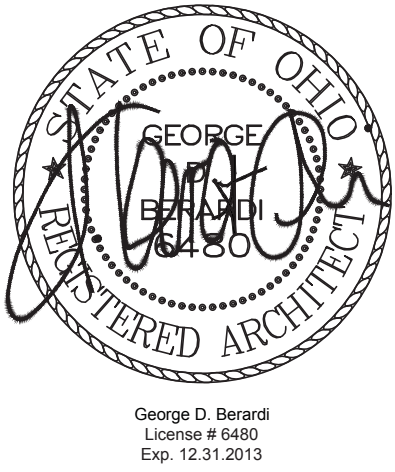


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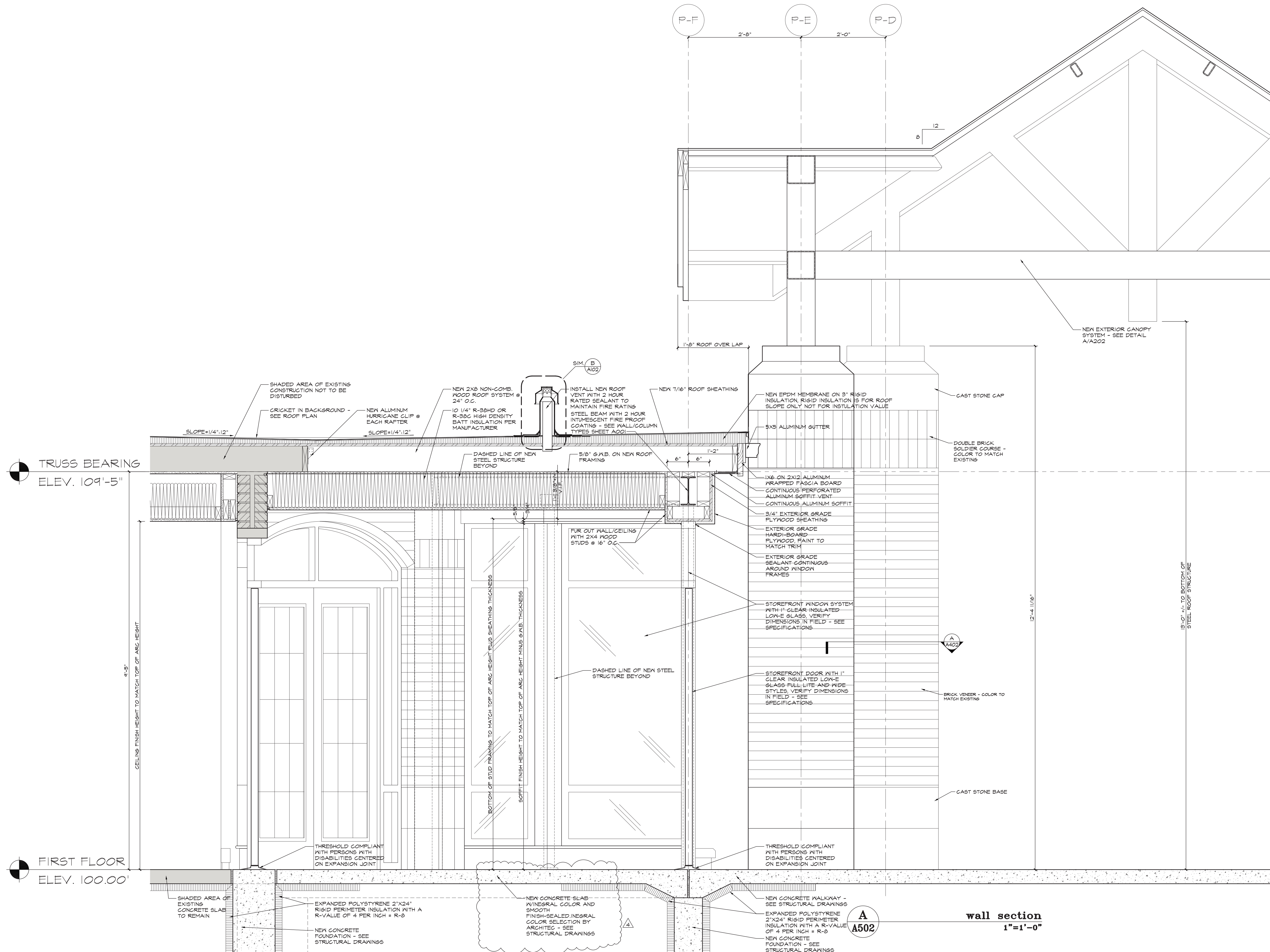
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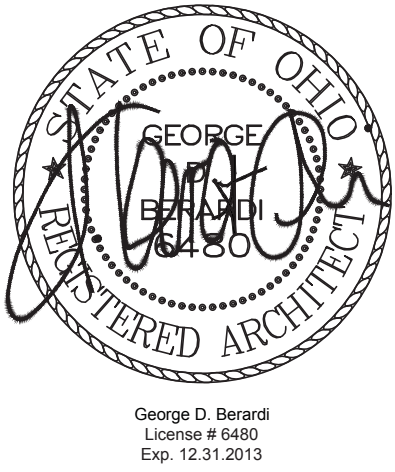
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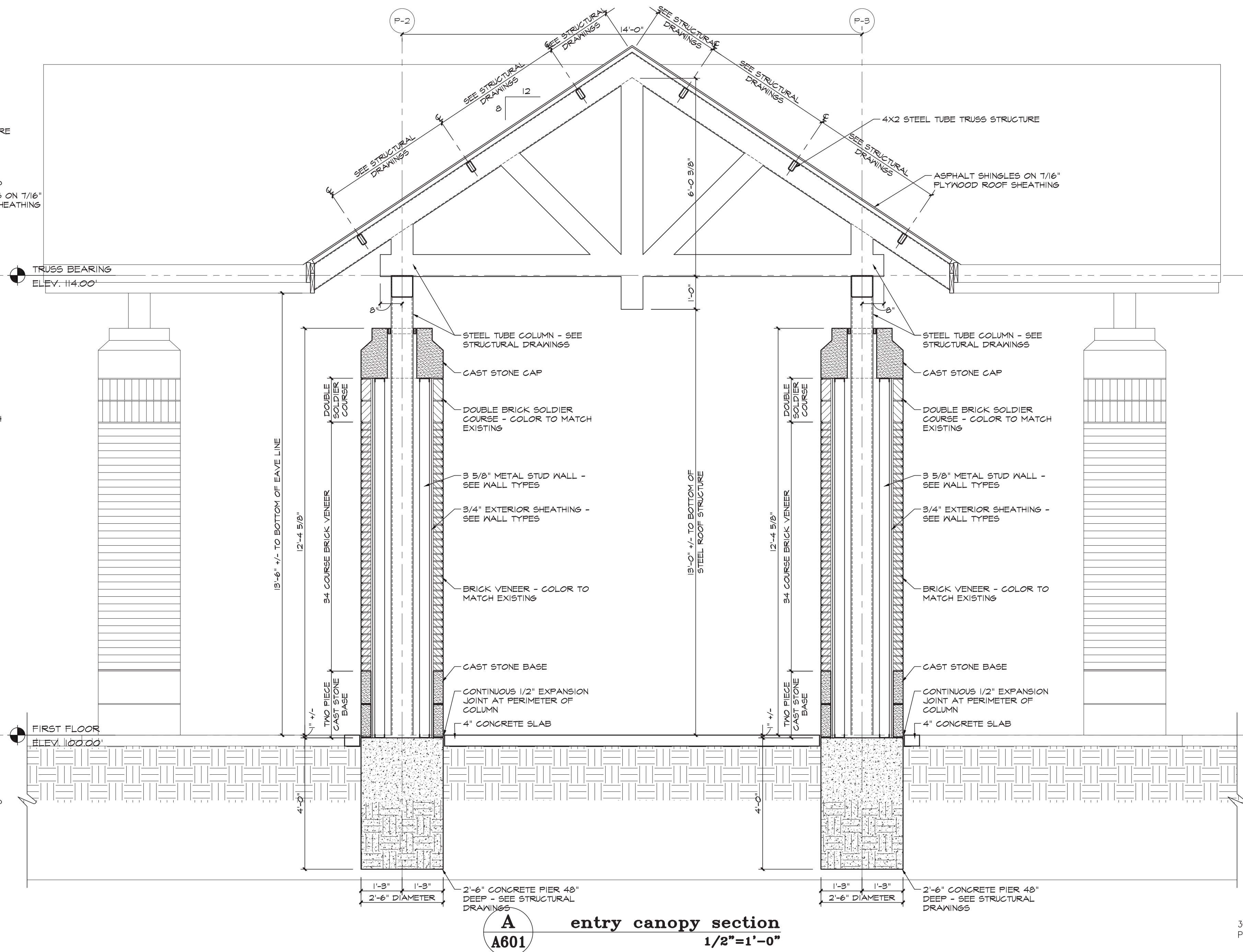
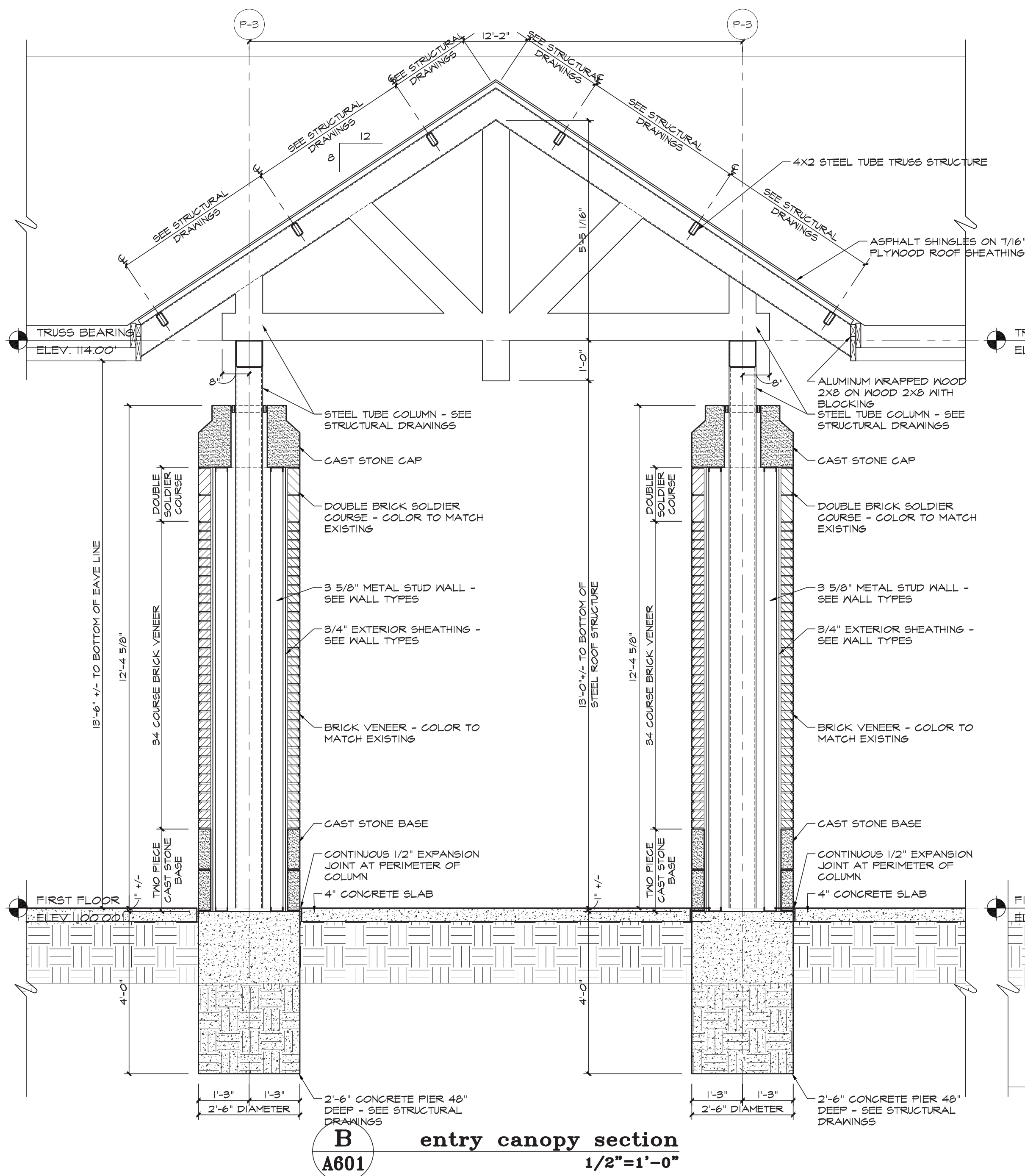
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WALL SECTIONS & DETAILS

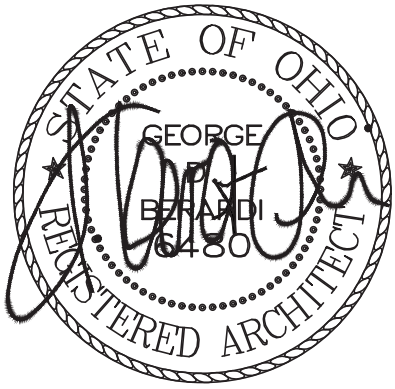
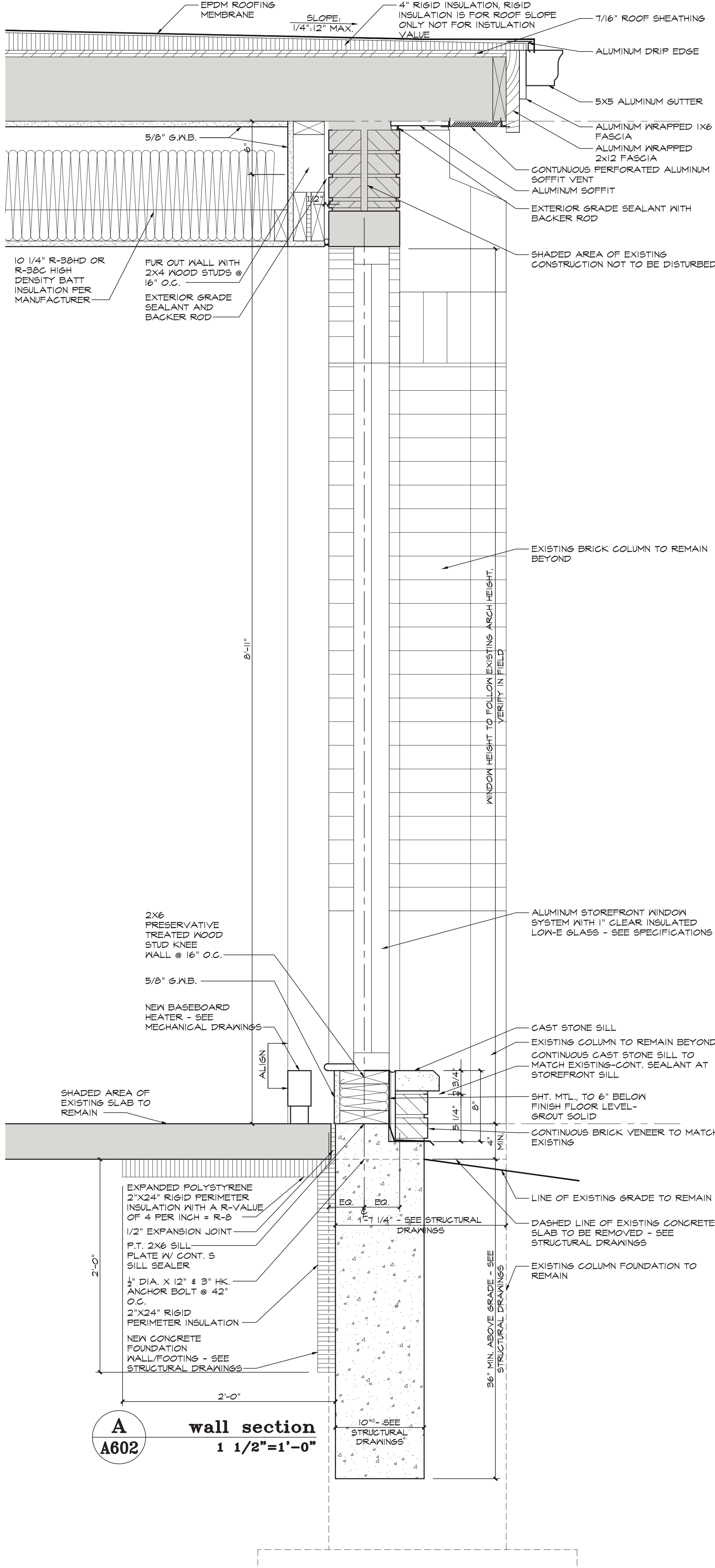
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07/26/2013	GB	04
05/27/2016	GB	05

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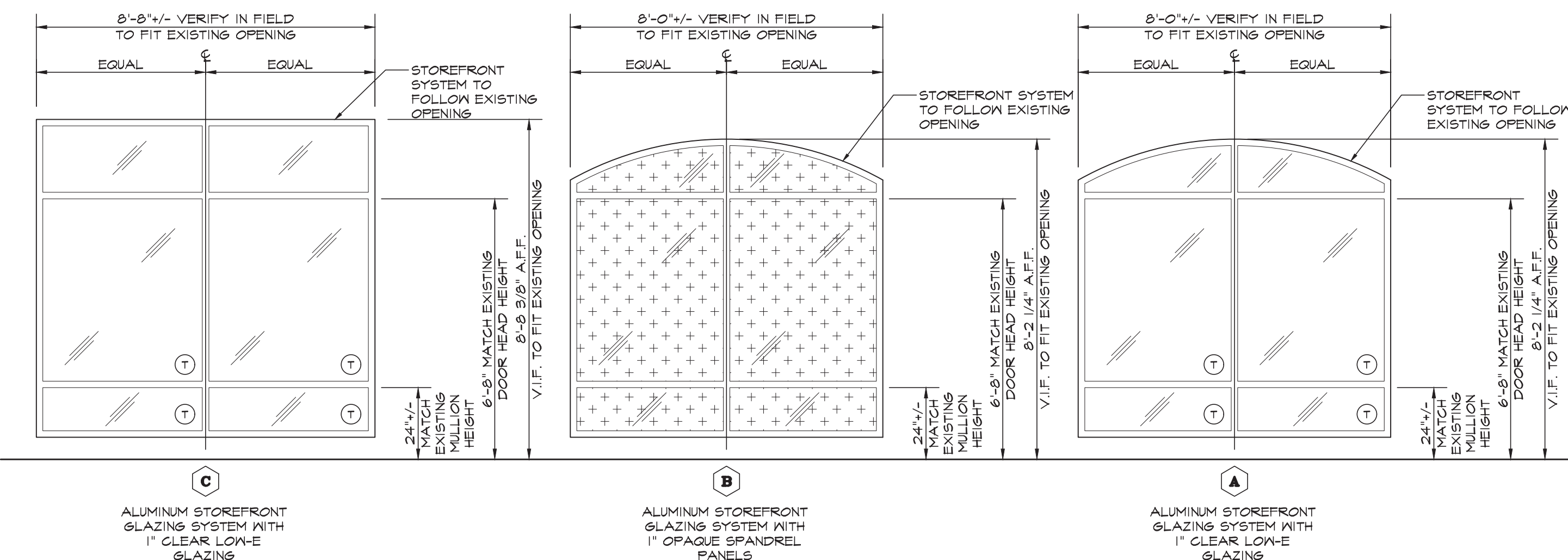
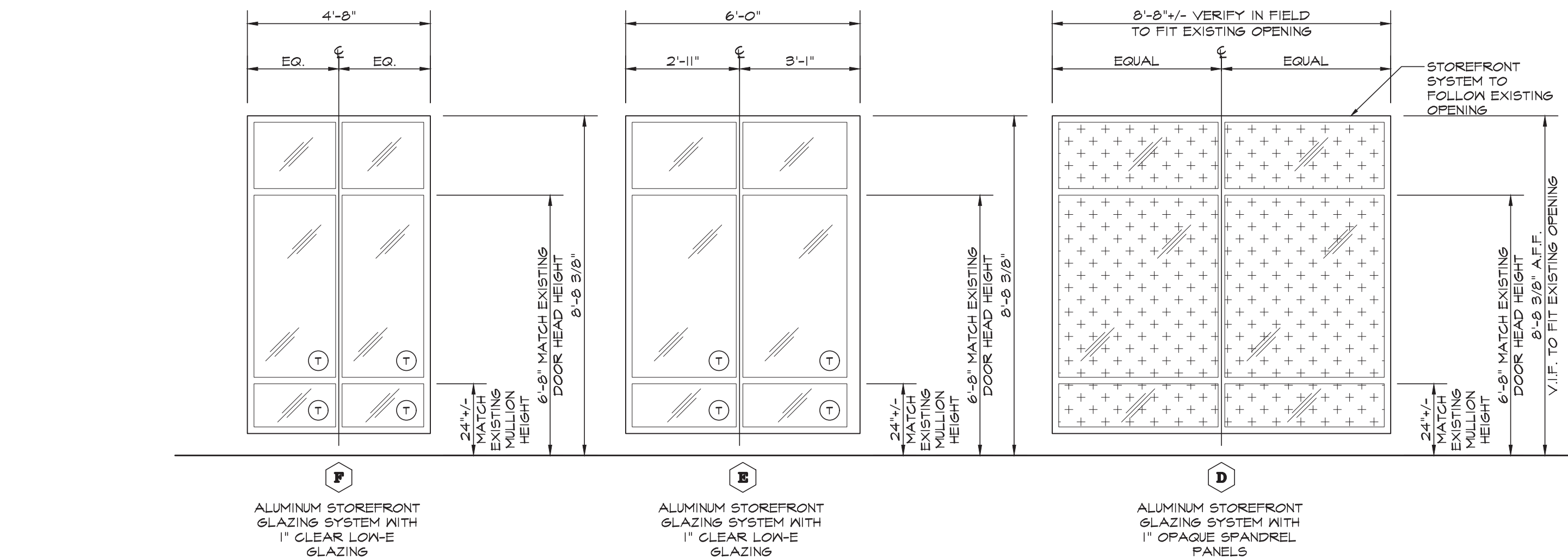
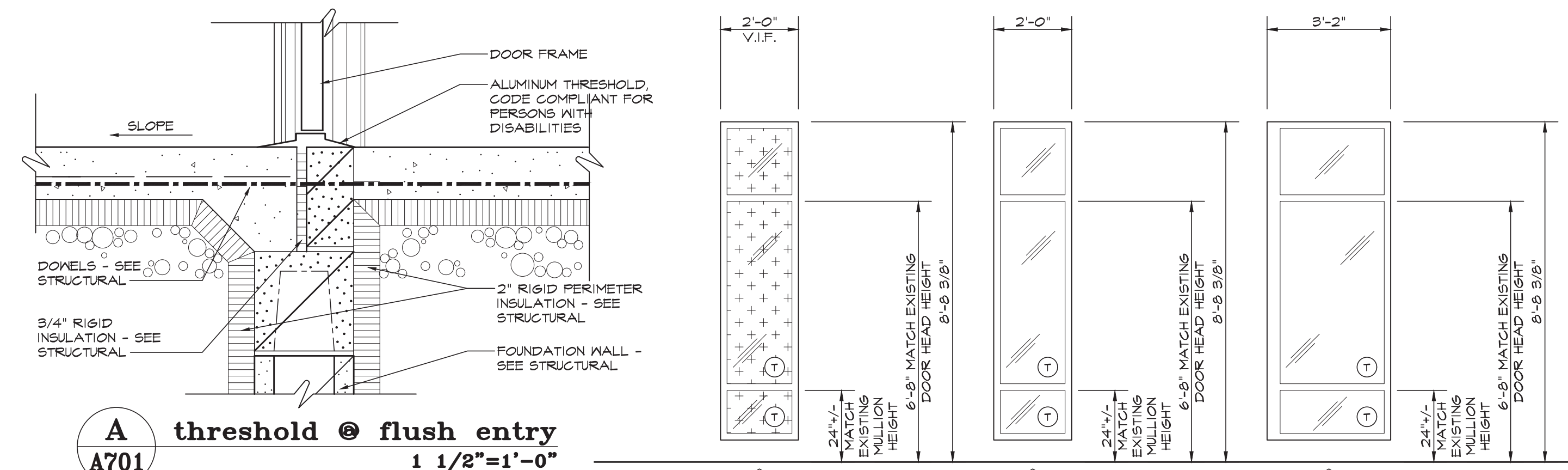
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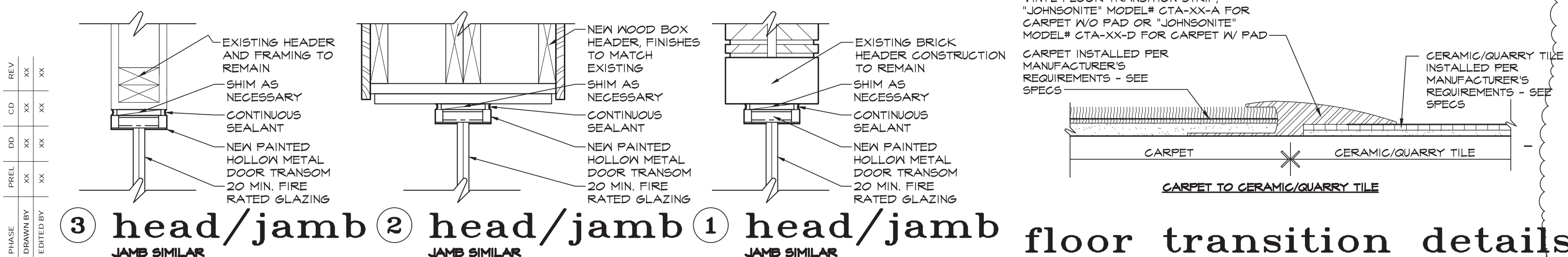
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window elevations/types 3/8"=1'-0"



floor transition details

common area door schedule

DOOR #	DOOR USE	DOOR SIZE		DOOR TYPE	FRAME	FRAME DET.		FIRE RATING LABEL	HARDWARE SET #	REMARKS
		WIDTH	HEIGHT			HD	JM			
common area										
100A	VESTIBULE	(2) 3'-0"	7'-0"	SF - 1	H.M. PTD.	1	1	20 MIN.	3	1, 3, 4 & 6
101A	ENTRY VESTIBULE	(2) 3'-0"	7'-0"	SF - 2	H.M. PTD.	2	2	20 MIN.	4	1, 3, 4 & 6
105A	MEETING ROOM	3'-0"	7'-0"	SF - 3	H.M. PTD.	3	3	20 MIN.	1	2 & 4 A
105B	MEETING ROOM	EXST.	EXST.	EXST.	EXST.	EXST.	EXST.	EXISTING	2	5

general door notes

- NOT USED.
- ALL EGRESS DOORS SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF SPECIAL KNOWLEDGE OR KEY.
- ALL DOORS HELD OPEN BY MAGNETIC DEVICES SHALL CLOSE UPON ACTIVATION OF SMOKE DETECTOR, FIRE ALARM SYSTEM, SPRINKLER SYSTEM OR POWER LOSS. SMOKE DETECTORS SHALL BE INSTALLED WITHIN 5'-0" OF FIREWALL, OR SMOKE WALL DOORS ON MAGNETIC HOLD OPENS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY DIMENSIONS AND WALL TYPES (SEE FLOOR PLANS) AND TO COORDINATE DOORS AND FRAMES WITH SUCH.
- ALL HINGES AT EXTERIOR DOORS SHALL HAVE NON-REMOVABLE PIN.
- THRESHOLDS AT ALL DOORS SHALL BE CODE COMPLIANT FOR PERSONS WITH DISABILITIES WITH MAXIMUM HEIGHT OF 1/2".
- THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN AN INTERIOR DOOR SHALL BE 5 LBF, ADAAG 4.13.II.
- PER SECTION 4.13.9 OF ADAAG, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT FINCHING OR TWISTING OF THE WRIST TO OPERATE.
- ANY EXISTING FIRE RATED DOORS OR FRAMES REQUIRING AUGMENTATION SHALL BE FIRST COORDINATED WITH ORIGINAL MFR OR GC'S SUPPLIER, LABELING COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
- FIELD VERIFY RATINGS ON ALL EXISTING DOORS TO REMAIN TO RECEIVE NEW HARDWARE PRIOR TO ORDERING.
- FIELD VERIFY RATINGS ON ALL EXISTING DOORS TO REMAIN TO RECEIVE NEW HARDWARE PRIOR TO ORDERING.
- SEE SPECIFICATIONS FOR DETAILED DOOR HARDWARE SCHEDULE AND OTHER DOOR AND HARDWARE REQUIREMENTS.
- DOOR CLOSER TO BE MOUNTED ON BLIND SIDE OF DOOR IN COMMON AREAS.
- HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT FINCHING OR TWISTING OF THE WRIST TO OPERATE.

remarks

- THRESHOLD TO BE CODE COMPLIANT FOR PERSONS WITH DISABILITIES - SEE DETAIL A/A01
- GLAZING TO BE 20 MINUTE RATED GLAZING WITH FIRE RATED WIRE GLASS
- STOREFRONT DOORS TO HAVE WIDE STYLES
- SEALS SHALL BE PROVIDED BY DOOR SUPPLIER
- REUSE BALANCE OF EXISTING HARDWARE
- NO ELECTRONIC STRIKES

interior finish key

CT-1	CERAMIC TILE, AMERICAN OLEAN, AMBER VALLEY AMBS MILLSTONE BEIGE
CT-2	CERAMIC TILE, AMERICAN OLEAN, AMBER VALLEY AMBS MILLSTONE BEIGE
CPT-1	BROADLOOM CARPET, PATCRAFT T10M4 (VE OPTION, PATCRAFT T10M5)
CPT-2	MODULAR CARPET, LEES, STEP IN STYLE MODULAR, 524 WOODLAND BROWN
CPT-3	MODULAR CARPET, LEES, STEP IN STYLE MODULAR, 524 WOODLAND BROWN
PT-1	PAINT, SHERWIN WILLIAMS 6140 MODERATE WHITE
PT-2	PAINT, SHERWIN WILLIAMS 6142 MACADAMIA
VGB-1	VINYL COVE BASE, JOHNSONITE 167 FUDGE
B-1	WOOD, BASE (B-1), UNFINISHED TRIM, PROFILES, THIS SHEET
CS-1	SEALED SMOOTH FINISH INTEGRAL COLOR CONCRETE FINISH
TC-1	TRUSSEL, SMOOTH SEALED COLOR CONCRETE FINISH
EXST.	EXISTING TO REMAIN

finish schedule

#	ROOM NAME	BASE	FLOOR	WALLS	CEILING	REMARKS
100	VESTIBULE	VGB-1	CS-1	PT-2	PT-1	1
101	ENTRY VESTIBULE	VGB-1	TC-1	PT-2	PT-1	1 & 3
102	SITTING FOYER	VGB-1	TC-1	PT-2	PT-1	1 & 3
103	COAT	B-1	TC-1	PT-2	PT-1	2
104	NARTHEX	B-1	CPT-2	PT-2	PT-1	
105	MEETING ROOM	EXST.	EXST.	EXST.	EXST.	

remarks

- PAINT WINDOW SILLS PT-1 SEMI GLOSS
- NEW CLOSET SHELVING PAINTED PT-1 SEMI GLOSS. ACCESS PANEL PAINTED PT-1
- GROUT, MAPEI KOS CHAMOIS
- CERAMIC TILE ACCENT (CT-2) - SEE SHEET A/A01 FOR LAYOUT
- CARPET ACCENT (CPT-3) - SEE SHEET A/A01 FOR LAYOUT

general notes

- NEW PAINT THROUGHOUT, ON WALLS, CEILINGS, SOFFIT, TRIM, DOORS, AND DOOR FRAMES. 2 COATS TYPICAL
- NEW FLOORING AND BASE AS SCHEDULED
- REMOVE AND REPLACE DOOR LOCKSETS
- ALL NEW/EXISTING WOOD TRIM TO BE PAINTED, PT-1 SEMI GLOSS



George D. Berardi
License # 6802
Exp. 12.31.2013

St. John Lutheran Church

6135 Rings Road
Dublin, Ohio 43016

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REVISIONS:
Permit Comments 05/14/2013

Permit Comments 07/26/2013
Value Engineering 05/27/2016

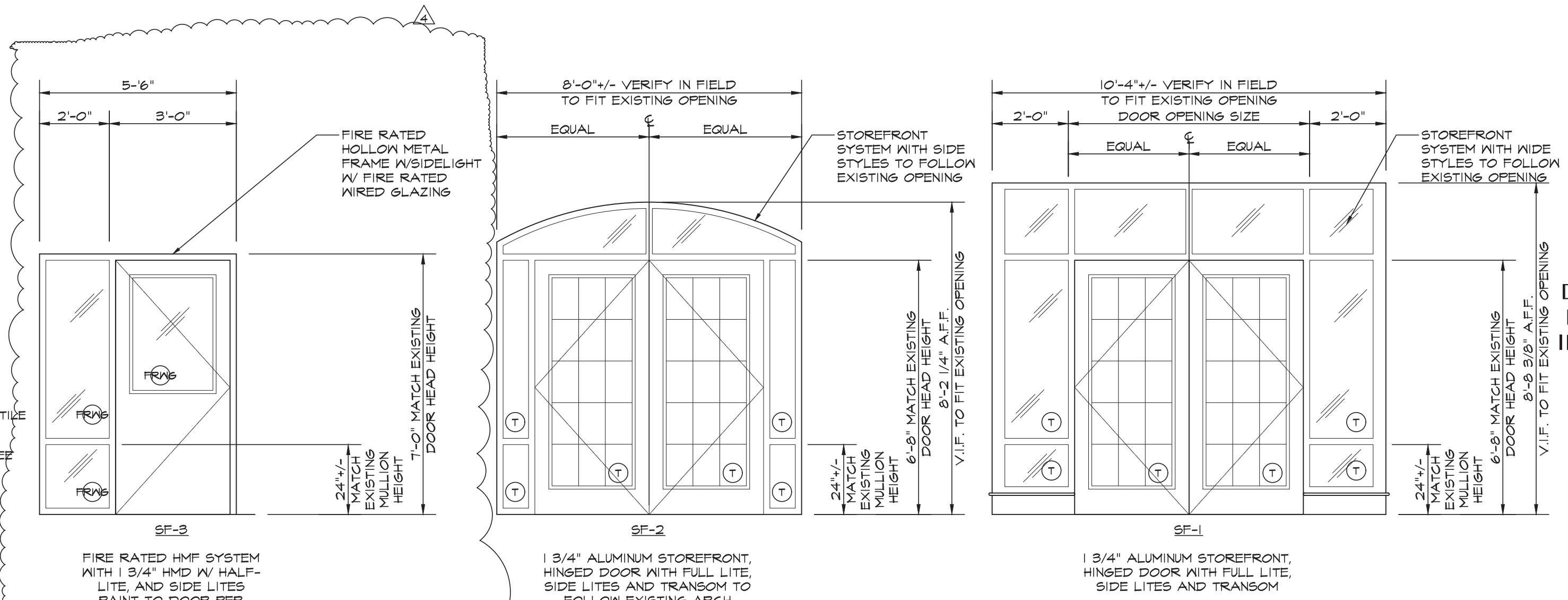
DOOR SCHEDULE, ELEVATIONS AND INTERIOR DETAILS

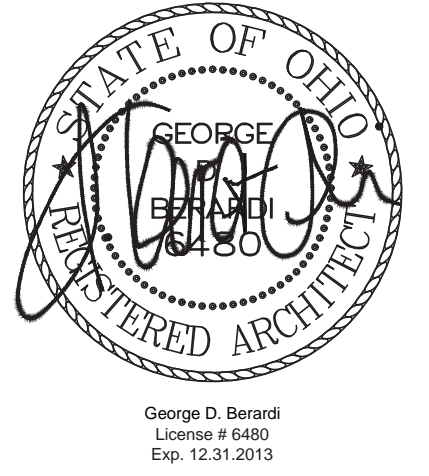
A701

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door elevations/types 3/8"=1'-0"





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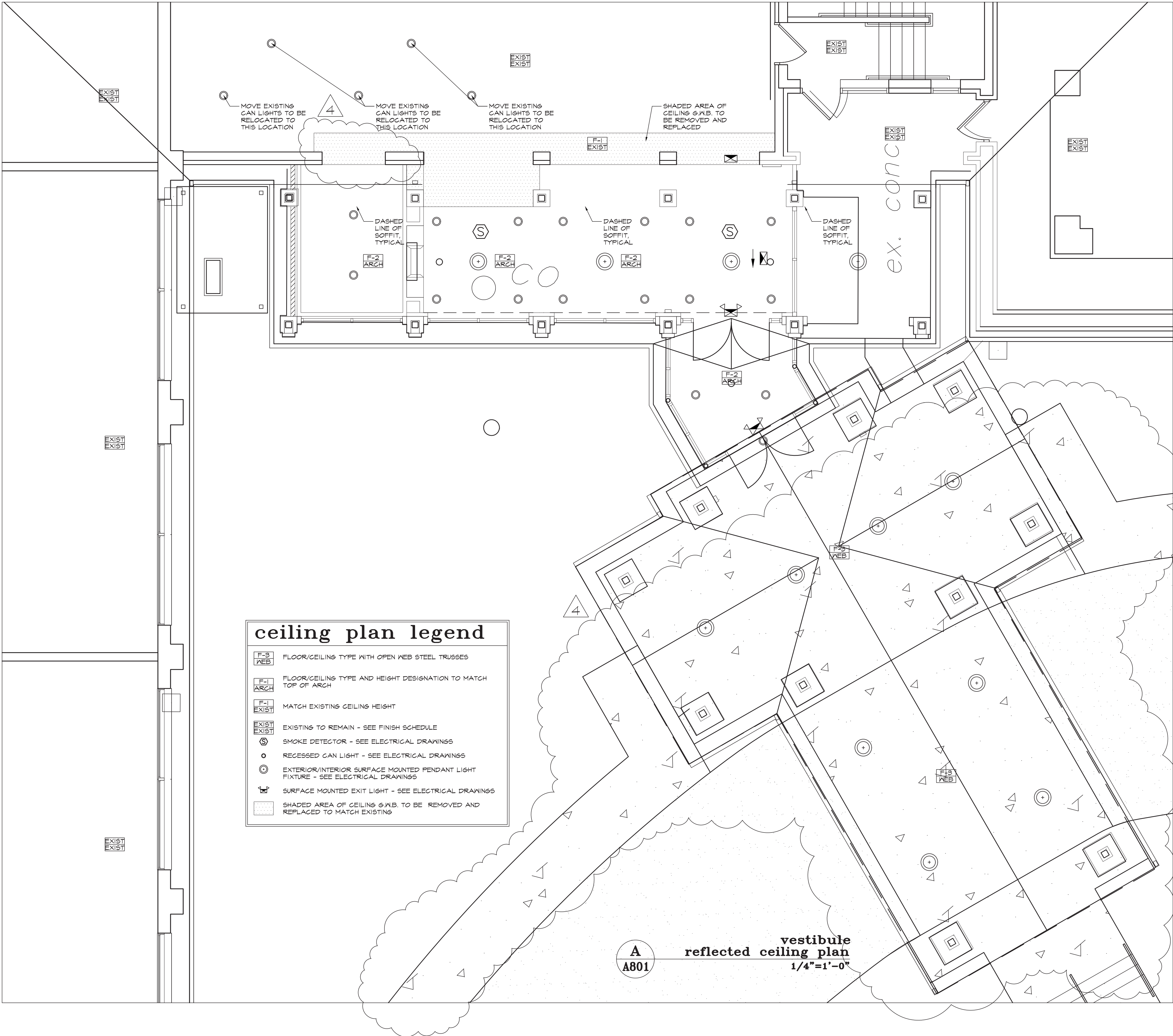
Value Engineering 05/27/2016

REFLECTED
CEILING
PLAN

A801



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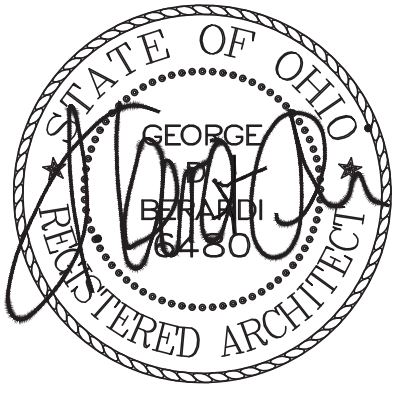


ceiling plan legend

- F-3 WEB FLOOR/CEILING TYPE WITH OPEN WEB STEEL TRUSSES
- F-1 ARCH FLOOR/CEILING TYPE AND HEIGHT DESIGNATION TO MATCH TOP OF ARCH
- F-1 EXIST MATCH EXISTING CEILING HEIGHT
- EXIST EXIST EXISTING TO REMAIN - SEE FINISH SCHEDULE
- SMOKE DETECTOR - SEE ELECTRICAL DRAWINGS
- RECESSED CAN LIGHT - SEE ELECTRICAL DRAWINGS
- EXTERIOR/INTERIOR SURFACE MOUNTED PENDANT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- SURFACE MOUNTED EXIT LIGHT - SEE ELECTRICAL DRAWINGS
- SHADE AREA OF CEILING S.W.B. TO BE REMOVED AND REPLACED TO MATCH EXISTING

A
A801
vestibule
reflected ceiling plan
1/4"=1'-0"

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Set**

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**FLOOR FINISH
PLAN**

A901

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enlarged entry vestibule plan
3/8"=1'-0"

PAINT COLORS
WALL: NOMADIC DESERT SW6107
CEILING: DIVINE WHITE SW6105
2ND STORY WALLS AT BEAMS: DIVINE WHITE

PLANK FLOORING
MANNINGTON
WALKWAY WW102 HONEY OAK

ACCENT CARPET
PATCRAFT 100T71 DUPLICITY
77102 EMPTY WORDS
BORDERS 1'-4" WIDE

FIELD CARPET
PATCRAFT 100T8 DUET
78107 MICKEY & MINNIE

TROWEL SMOOTH FINISH
COLOR CONCRETE SEALED

INTEGRAL COLOR SMOOTH
FINISH SEALED CONCRETE

EXISTING
GATHERING
SPACE

VESTIBULE
100

COLOR 'A'

ENTRY
VESTIBULE
101

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Schedules of through penetration firestop systems*					
Concrete floors			Concrete or block walls		
Type of penetrant	F-rating (HR)	UL-Classified system	Type of penetrant	F-rating (HR)	UL-Classified system
Circular blank openings	1	FA 0006,CAJ 0055, CAJ 0090	Circular blank openings	1	CAJ 0055, CAJ 0090
	2	FA 0006,CAJ 0055, CAJ 0090		2	CAJ 0055, CAJ 0090
Single metal pipes or conduit	1	CAJ 1226, FA 1028	Single metal pipes or conduit	1	CAJ 1226, WJ 1067
	2	CAJ 1226, FA 1028		2	CAJ 1226, WJ 1067
Single non-metallic pipe or conduit (I.E. PVC, CPVC, ABS, FRP, ENT)	1	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2271, CAJ 2167, CBJ 2021, CAJ 2342	Single non-metallic pipe or conduit (I.E. PVC, CPVC, ABS, FRP, ENT)	1	CAJ 2109, CAJ 2098, CAJ 2167, CAJ 2371, CAJ 2342
	2	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2271, CAJ 2167, CBJ-2021, CAJ 2371, CAJ 2342		2	CAJ 2109, CAJ 2098, CAJ 2167, CAJ 2371, CAJ 2342
Single or bundled cables	1	FA 3007, CAJ 3095,CAJ 3180	Single or bundled cables	1	WJ 3036, CAJ 3095, CAJ 3180, WJ 3060
	2	FA 3007,CAJ 3095,CAJ 3180		2	WJ 3036, CAJ 3095, CAJ 3180, WJ 3060
Cable tray	1	CAJ 4034, CAJ 4035	Cable tray	1	WJ 4027, CAJ 4034, CAJ 4035
	2	CAJ 4034, CAJ 4035		2	WJ 4027, CAJ 4034, CAJ 4035
Single insulated pipes	1	FA 5015, FA 5017, CAJ 5090, CAJ 5091, CAJ 5098	Single insulated pipes	1	CAJ 5090, CAJ 5091, CAJ 5061, WJ 5042
	2	FA 5015, FA 5017, CAJ 5090, CAJ 5091, CAJ 5090		2	CAJ 5090, CAJ 5091, CAJ 5061, WJ 5042
Electrical busway	1	CAJ 6006, CAJ 6017, FA 6002, CAJ 6036	Electrical busway	1	CAJ 6006, CAJ 6017, CAJ 6036
	2	CAJ 6006, CAJ 6017, FA 6002, CAJ 6036		2	CAJ 6006, CAJ 6017, CAJ 6036
Non-insulated mechanical ductwork without dampers	1	CAJ 7046, CAJ 7051, CAJ 7084	Non-insulated mechanical ductwork without dampers	1	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022
	2	CAJ 7046, CAJ 7051, CAJ 7084		2	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022
Insulated mechanical ductwork without dampers	N/A**	N/A**	Insulated mechanical ductwork without dampers	1	WJ 7029
				2	WJ 7029
Mixed penetrants	1	CAJ 8099, CAJ 8056, CAJ 8143	Mixed penetrants	1	CAJ 8099, CAJ 8056, WJ 8007, CAJ 8143
	2	CAJ 8099, CAJ 8056, CAJ 8143		2	CAJ 8099, CAJ 8056, WJ 8007, CAJ 8143
Wood floor			Gypsum wallboard assemblies		
Type of penetrant	F-rating (HR)	UL-Classified system	Type of penetrant	F-rating (HR)	UL-Classified system
Metal pipes or conduit	1	FC 1009, FC 1059	Metal pipes or conduit	1	WL 1054, WL 1058, WL 1164
	2	FC 1009, FC 1059		2	WL 1054, WL 1058, WL 1164
Non-metallic pipe or conduit	1	FC 2232, FC 2030, FC 2160, FC 2127, FC 2128	Non-metallic pipe or conduit	1	WL 2078, WL 2075, WL 2128
	2	FC 2029, FC 2030, FC 2128, FC 2127, FC 2160		2	WL 2078, WL 2075, WL 2128
Single or bundled cables	1	FC 3012, FC 3044	Single or bundled cables	1	WL 3065, WL 3111, WL 3112
	2	FC 3012		2	WL 3065, WL 3111, WL 3112
Insulated pipes	1	FC 5004, FC 5037, FC 5036	Cable tray	1	WL 4011, WL 4019
				2	WL 4011, WL 4019
	2	FC 5004, FC 5037	Insulated pipes	1	WL 5028, WL 5029, WL 5047
				2	WL 5028, WL 5029, WL 5047
Non-insulated mechanical ductwork without dampers	1	FC 7013	Non-insulated mechanical ductwork without dampers	1	WL 7017, WL 7040, WL 7042, WL 7155
	2			2	WL 7040, WL 7042, WL 7155
Insulated mechanical ductwork without dampers	1	N/A**	Insulated mechanical ductwork without dampers	1	WL 7059, WL 7153, WL 7156, WL 7151
	2	N/A**		2	WL 7059, WL 7153, WL 7156, WL 7151
Mixed penetrants	1	FC 8009, FC 8014, FC 8026, FC8025	Mixed penetrants	1	WL 1095, WL 8013
				2	WL 1095, WL 8013
*Based on Hilti model numbers. See Division 7 specifications for other approved manufacturers.					
Notes:					
1. Jobsite conditions of each through-penetration firestop system must meet all details of the UL-Classified System selected.					
2. If jobsite conditions do not match any UL-classified systems in the schedules above, contact one of the approved manufacturers for alternative systems or engineer judgment drawings.					
3. Where more than one applicable UL-Classified System is listed in the schedules, choose the UL System which is most economical for each through-penetration firestop system.					
4. Coordinate work with other trades to assure that penetration opening sizes are appropriate for penetrant locations, and vice versa.					
5. For 3-hour rated gypsum walls, contact one of the approved manufacturers for a UL-classified system or engineer judgment drawing.					

Plumbing Legend	
Sanitary Stack #	#
Supply Riser #	#
Connect to Existing	⊕
Sanitary Serving The Current Floor	
Vent	✓
Domestic Cold Water	—
Domestic Hot Water	—
Domestic 140°F Water	—140
Hot Water Recirculation	—R
Low Pressure Gas<2PSI with ΔP<=0.3" WC	—G
Elbow Up	⌋
Elbow Down	⌋
Tee Up	⌋
Tee Down	⌋
Hose Bibb or Wall Hydrant	⌋
Grade Cleanout	⌋
End of Line Cleanout	⌋
Union	⌋
End Cap	⌋
Check Valve	⌋
Ball Valve	⌋
Gate Valve	⌋
Globe Valve	⌋
Concentric Reducer	⌋
Eccentric Reducer	⌋

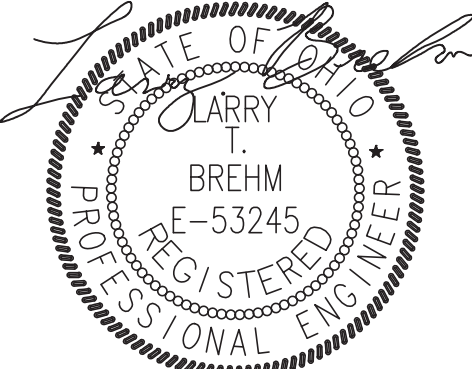
AFF	Above finished floor	LBS/LB	Pounds or pound
AFR	Above finished roof	LPG	Low pressure gas
AHU	Air handling unit	MA	Mixed air
AS	Air separator	MAX	Maximum
AVG	Average	MBH	1000 British thermal units per hour
BD	Balancing	MECH	Mechanical
BFP	Backflow preventer	MC	Mechanical contractor
BHP	Brake horse power	MFGR	Manufacturer
BLDG	Building	MH	Manhole
BOD	Bottom of duct	MIN	Minimum
CFM	Cubic feet per minute	MPG	Medium pressure gas
CHWS	Chilled water supply	MTG	Mounting
CHWR	Chilled water return	MUW	Make-up water
COND	Condensing unit	N/A	Not applicable
CONTR	Contractor	NTS	Not to scale
CONST	Constant	OA	Outside air
CONV	Convector	PC	Plumbing contractor
DCW	Domestic cold water	PLUM	Plumbing
DEMO	Demolition	PRESS	Pressure
DFS	Dry fire sprinkler	PROP	Propeller
DHW	Domestic hot water	(R)	Remove existing
DHWR	Domestic hot water return	(R/R)	Remove and replace
DIA	Diameter	RA	Return air
DIP	Ductile iron pipe	REC	Register
DN	Down	REQ'D	Required
DX	Direct expansion	RM	Room
(E)	Existing to remain	RPM	Revolutions per minute
EAT	Entering air temperature	RTU	Roof top unit
EB	Electric baseboard	SA	Supply air
EC	Electrical contractor	SAN	Sanitary
EF	Exhaust fan	SAN	Sanitary
ELEC	Electrical	SHTMTL	Sheet metal
EWC	Electric water cooler	TSTAT	Thermostat
EXIST	Existing	STD	Standard
FAC	Fire Alarm Contractor	STM	Storm
FSC	Fire Sprinkler Contractor	STRUCT	Structural
FT	Feet	SPLD	Splitter damper
FTHD	Feet of head	SQFT	Square feet
FLEX	Flexible	SST	Stainless steel
GALV	Galvanized	SUCT	Suction
GC	General contractor	SYS	System
GPM	Gallons per minute	TCP	Temperature control panel
GEN	General	TEMP	Temperature
HPG	High pressure gas	ΔT	Temperature difference
HTG	Heating	THERM	Thermometer
HTR	Heater	THRD	Threaded
HVAC	Heating, ventilating and air conditioning	TSP	Total static pressure
HORIZ	Horizontal	TYP	Typical
HP	Horse power	UH	Unit heater
HW	Hot water	UL	Underwriters laboratory
IE	Invert elevation	V	Vent
IN	Inches	VEST	Vestibule
IRTH	Infrared tube	W/	With
LAT	Leaving air temperature	WFS	Wet fire sprinkler
		WP	Water proof

Abbreviations

Plumbing General Notes	
A. Permits: Provide work in accordance with current version of applicable national, state, and local codes as determined by the Authorities Having Jurisdiction (AHJs). Applicable codes shall include ANSI A117.1 (latest edition), UFAS (Uniform Federal Accessibility Standards), FHAG (Fair Housing Accessibility Guidelines), and all other local/state accessibility codes and interpretations. Contractor shall be responsible for obtaining and paying for all permits and inspections. Contractor shall be familiar with local AHJ interpretations before the bid. All costs resulting from code interpretation shall be borne by the contractor.	
B. Contract Documents: All work shall be performed according to the Contract Documents. The Contract Documents include Architectural, Civil, Structural, Fire Protection, Plumbing, Mechanical, and Electrical design drawings, Specifications, and Addenda, Architect's Supplemental Instructions, Bulletins, Change Orders, and other instruction transmitted to modify the original documents. All of these documents are integral to the project. Refer to the specifications for general requirements, for product quality, construction and finish, and for additional installation instructions. Refer to the architectural drawings for accessibility compliance requirements. Review and understand the requirements of the Contract Documents before bidding. Confirm contract document and code compliance requirements with the Project Architect and General Contractor during bidding, and again during the Pre-Construction Conference prior to performing the work. Conflicts within or between the Contract Documents and referenced codes shall use the most stringent interpretation until clarified. Clarifications shall be requested in writing and shall be resolved prior to proceeding with installation. All costs due to performing work prior to conflict resolution shall be borne by the contractor.	
C. Coordination: The drawings are diagrammatic, schematic and shown for bidding and general reference. Drawings are not intended to define exact installation details and shall not be scaled. Confirm size and location of all work prior to bid and construction. Verify all existing conditions prior to bidding and construction. Verify exact dimensions and sequencing of the work and coordinate with the site, utilities, building structure and with all other trades. Coordinate exact locations of all work with other trades and suppliers before installation. Concealed conditions may occur, and scope changes required shall be approved by the Owner, the Architect, the Engineer, and the General Contractor, prior to proceeding with installation. All additional costs resulting from lack of coordination shall be borne by the contractor.	
D. Shop Drawings: Shall be reviewed by architect/engineer prior to installation. Alternate equipment and/or manufacturers must be approved prior to bid in writing via addendum, prior to bid in order for their bid to be accepted. If the equipment is not pre-approved then unspecified manufacturers and equipment shall be substitutions and submitted for consideration under the specified substitution procedures. All Costs associated with dimensional, performance or other deviations from the basis of design equipment, including engineering costs to evaluate such deviations, shall be borne by the contractor.	
E. Definitions: "Approved" means approved by the Engineer and Owner before order, purchase, or delivery. "Furnish" means to purchase, arrange for delivery to site, and to take delivery at the site. "Install" means to place in position for use. "Provide" means to furnish and install.	
F. Incidentals: Provide materials, labor, and incidental work (including protection of existing, surface preparation, hangars, provisions for testing, and other appurtenances) to provide complete working plumbing systems for the project. Offsets, accessories, final connections, and other miscellaneous hardware are not shown, but shall be included at no additional cost where required to complete the system. Major deviations from the design shall be approved by the Architect and Engineer before ordering supplies or starting work.	
G. Warranty: To obtain final project certificates of occupancy upon completion of the work scope, contractor shall warrant that the work has been completed in compliance with established codes and regulations. Certificate shall be given to owner at project completion.	
H. Penetrations: Penetrations through fire/smoke rated construction shall be protected with a product listed and labeled to maintain the fire /smoke rating of system penetrated. Pipes, lines, drains, etc., which penetrate through walls, slabs, masonry, etc. shall do so through pipe sleeves. All gaps outside and inside of the sleeves shall be caulked or be tightly packed with insulation (blanket or foam) in order to maintain proper protection against heat loss, infiltration, sound transmission, etc.	
I. Piping: Conceal piping whenever possible. Install equipment (and piping) for easy equipment disconnection and replacement, to facilitate service, maintenance, repair, and replacement of components, and to eliminate interference with other installations. Dashed areas shown in front of, and around equipment are areas required for maintenance and inspection. These areas shall be maintained clear of obstructions to 7'-0" A.F.F., or to the height of the equipment (whichever is larger). Piping shall not run over any electric panel or equipment.	
J. Underground Pipe: Water service pipe and building sewer shall be separated by a minimum of 10' of earth to prevent cross contamination. Minimum parallel distance from a wall to the centerline of an underground pipe shall be 3'-0" for repair access. Piping shall not be installed directly under walls. Provide tracer wire for pipes outside of the building	

Plumbing Demolition Notes

A. Coordination: Confirm size and location of all work and verify all existing conditions prior to bidding and construction. Before starting work, refer to architectural demolition plan for areas with walls and ceilings demolished by others in order to reduce selective demolition quantities. Coordinate demolition work with architectural phasing plans and/or specifications. Verify exact dimensions and sequencing of the work and coordinate with the building structure and with the other trades. Verify equipment locations with other contractors and disconnect service before removal. All additional costs resulting from lack of coordination shall be borne by the contractor.	
B. Utility Coordination: Plumbing contractor shall be responsible for all work and costs associated with demolition and replacement of the plumbing services including application, fees, installation, temporary water, and usage charges. For temporary water, gas, and sanitary. Verify exact requirements and coordinate with local utility. Contractor shall pay for all costs of utility company including final connections.	
C. Remove all plumbing equipment, fixtures, and devices shown with dashed lines on plan unless noted otherwise. Plans show readily visible fixtures, and pipes only. Quantities and locations may not be exact or readily accessible. Field verify before bid or include an allowance for items not shown but needing demolished as determined by the owner and/or architect.	
D. Concealed Piping: All concealed piping has not been verified and it is the responsibility of the contractor to notify the Engineer of all deviations from the plans. The contractor shall make all modifications necessary to provide a working system at no additional cost.	
E. Removed equipment, and fixtures shall be turned over to owner (or hauled from site for disposal at owner's option).	
F. Existing piping, and valves buried in remaining walls may be reused for new fixtures. Otherwise, refer to architectural demolition, and cutting and patching specifications.	
G. Underground Piping: Underground piping which will not be reused, shall be removed or abandoned in place for future use at owner's option.	



May 31, 2016

St. John
Lutheran Church
6135 Rings Road
Dublin, Ohio 43016

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3. ADDITIONALLY, SEE GENERAL INFORMATION ON "NOT SHEETS."

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PROJECT #: 1261
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ISSUE DATE: 05/31/16
REVISIONS:

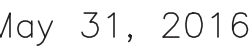
Permit Comments: 07/26/2013
Value Engineering: 05/27/2016

PLUMBING
NOTES, SYMBOLS
AND ABBREVIATIONS

P000

berardi+
architecture + interior design + engineering

369 East Livingston Ave. Columbus, Ohio 43215
Phone (614)221-1110 Fax (614)221-0831
www.berardipartners.com



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PROJECT #: 12161

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ISSUE DATE: 05/31/16

REVISIONS:

Permit Comments 07/26/2013Value Engineering 05/27/2016

entry canopy floor plan 1/8"=1'-0"

PLUMBING DEMOLITION FIRST FLOOR PLAN

PD101



369 East Livingston Ave. Columbus, Ohio 43215
Phone (614)221-1110 Fax (614)221-0831
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[illegible]

Project: 220406-01	Drawn: J. Berardi	Checked: J. Berardi	Scale: 1/8" = 1'-0"	Date: 05/27/2016
Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016
Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016
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Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016	Revised: 05/27/2016

HVAC Symbols				
—D—	Condensate Drain	EF		Exhaust Fan
	Rectangular or square ductwork: first number indicates dimension of side shown, second number indicates side not shown.	EF		Exhaust Fan with Light
	Duct Exhaust Elbow—Turned up 90°—Rectangular			Fire Damper
	Duct Exhaust Elbow—Turned down 90°—Rectangular			Smoke Damper
	Duct Return Elbow—Turned up 90°—Rectangular			Humidistat
	Duct Return Elbow—Turned down 90°—Rectangular			Pipe Capped
	Duct Supply Elbow—Turned up 90°—Rectangular			Pipe Turned Down
	Duct Supply Elbow—Turned down 90°—Rectangular			Pipe Turned Up
	Direction of flow			Thermostat, mount at 3'-6" A.F.F.
	Change of elevation rise (R), drop (D)			Volume Damper
	Smoke Detector			CO2 Sensor
	Heat Detector			

Abbreviations				
ACC	Air cooled condenser	HWS	Hot water supply	
ACCU	Air cooled condensing unit	IE	Invert elevation	
AD	Access door	IN	Inches	
AFF	Above finished floor	IRTH	Infrared tube	
AFR	Above finished roof	LAT	Leaving air temperature	
AHU	Air handling unit	LBD	Linear bar diffuser	
ARCH	Architectural	LBS/LB	Pounds or pound	
AS	Air separator	MA	Mixed air	
AVG	Average	MAX	Maximum	
BD	Balancing	MBH	1000 British thermal units per hour	
BDD	Backdraft Damper	MECH	Mechanical	
BFC	Below finished ceiling	MC	Mechanical contractor	
BFP	Backflow preventer	MFG	Manufacturer	
BJ	Built in	MH	Manhole	
BHP	Broke horse power	MIN	Minimum	
BLDG	Building	MTG	Mounting	
BOD	Bottom of duct	MUA	Make-up air	
C	Chilled water coil	MUW	Make-up water	
CD	Ceiling diffuser	NA	Not applicable	
CFM	Cubic feet per minute	NTS	Not to scale	
CHWS	Chilled water supply	OA	Outside air	
CHWR	Chilled water return	OAI	Outside air intake	
CLG	Ceiling	OED	Open end duct	
CO2	Carbon Dioxide Detector	PC	Plumbing contractor	
COND	Condensing unit	PD	Pressure drop	
CONTR	Contractor	PLUM	Plumbing	
CONST	Constant	PRESS	Pressure	
CONV	Convactor	PROP	Propeller	
CK	Connect to existing	PTAC	Packaged terminal air-conditioner	
DCW	Domestic cold water	RA	Return air	
DH	Dehumidifier	RAG	Return air grille	
DHW	Domestic hot water	RAR	Return air register	
DHWR	Domestic hot water return	REG	Register	
DIA or Ø	Diameter	REQ'D	Required	
DN	Down	RL	Refrigerant liquid	
DWG	Drawing	RLX	Relocate existing	
DX	Direct expansion	RM	Room	
DXC	Refrigerant coil	RPM	Revolutions per minute	
EAG	Exhaust air grille	RS	Refrigerant suction	
EAR	Exhaust air register	RTU	Roof top unit	
EAT	Entering air temperature	RX	Remove existing	
EBB	Electric baseboard heater	SA	Supply air	
EC	Electrical contractor	SAN	Sanitary	
EDH	Electric duct heater	SAR	Supply air register	
EF	Exhaust fan	SF	Supply fan	
ELECT	Electrical	SFR	Supply floor register	
ERV	Energy recovery ventilator	SG	Soffit grille	
EUH	Electric unit heater	SHMTL	Sheet metal	
EW	Electric wall heater	TSTAT	Thermostat	
EW	Electric wall heater	STM	Storm	
EW	Electric water cooler	STRUCT	Structural	
(E)	Existing	SP	Static pressure	
FC	Forward curved	SPD	Sump pump discharge	
F	Furnace	SPLD	Splitter damper	
FT	Feet	SOFT	Square feet	
FTHD	Feet of head	SS	Stainless steel	
FLEX	Flexible	SUCT	Suction	
FSC	Fan speed control	SYS	System	
GA	Gauge	TEMP	Temperature control panel	
GALV	Galvanized	TC	Temperature	
GC	General contractor	TD	Temperature difference	
GPM	Gallons per minute	TG	Transfer grille	
GEN	General	THERM	Thermometer	
HC	Hot water coil	THRD	Threaded	
HG	Hot gas	TSP	Total static pressure	
HP	Heat pump	TYP	Typical	
HTG	Heating	UH	Unit heater	
HTR	Heater	UL	Underwriters laboratory	
HVAC	Heating, ventilating and air conditioning	V	Vent	
HV	Heating and ventilating	VEST	Vestibule	
HORIZ	Horizontal	W/	With	
HP	Horse power	WP	Working point	
HPWR	Heat pump water return	WSPH	Water source heat pump	
HPWS	Heat pump water supply			
HW	Hot water			
HWR	Hot water return			

Schedules of through penetration firestop systems•					
Concrete floors			Concrete or block walls		
Type of penetrant	F-rating (HR)	UL-Classified system	Type of penetrant	F-rating (HR)	UL-Classified system
Circular blank openings	1	FA 0006,CAJ 0055, CAJ 0090	Circular blank openings	1	CAJ 0055, CAJ 0090
	2	FA 0006,CAJ 0055, CAJ 0090		2	CAJ 0055, CAJ 0090
Single metal pipes or conduit	1	CAJ 1226, FA 1028	Single metal pipes or conduit	1	CAJ 1226, WJ 1067
	2	CAJ 1226, FA 1028		2	CAJ 1226, WJ 1067
Single non-metallic pipe or conduit (I.E. PVC, CPVC, ABS, FRP, ENT)	1	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2271, CAJ 2167, CBJ 2021, CAJ 2342	Single non-metallic pipe or conduit (I.E. PVC, CPVC, ABS, FRP, ENT)	1	CAJ 2109, CAJ 2098, CAJ 2167, CAJ 2371, CAJ 2342
	2	FA 2053, FA 2025, CAJ 2109, CAJ 2098, CAJ 2271, CAJ 2167, CBJ-2021, CAJ 2371, CAJ 2342		2	CAJ 2109, CAJ 2098, CAJ 2167, CAJ 2371, CAJ 2342
Single or bundled cables	1	FA 3007, CAJ 3095,CAJ 3180	Single or bundled cables	1	WJ 3036, CAJ 3095, CAJ 3180, WJ 3060
	2	FA 3007,CAJ 3095,CAJ 3180		2	WJ 3036, CAJ 3095, CAJ 3180, WJ 3060
Cable tray	1	CAJ 4034, CAJ 4035	Cable tray	1	WJ 4027, CAJ 4034, CAJ 4035
	2	CAJ 4034, CAJ 4035		2	WJ 4027, CAJ 4034, CAJ 4035
Single insulated pipes	1	FA 5015, FA 5017, CAJ 5090, CAJ 5091, CAJ 5098	Single insulated pipes	1	CAJ 5090, CAJ 5091, CAJ 5061, WJ 5042
	2	FA 5015, FA 5017, CAJ 5090, CAJ 5091, CAJ 5090		2	CAJ 5090, CAJ 5091, CAJ 5061, WJ 5042
Electrical busway	1	CAJ 6006, CAJ 6017, FA 6002, CAJ 6036	Electrical busway	1	CAJ 6006, CAJ 6017, CAJ 6036
	2	CAJ 6006, CAJ 6017, FA 6002, CAJ 6036		2	CAJ 6006, CAJ 6017, CAJ 6036
Non-insulated mechanical ductwork without dampers	1	CAJ 7046, CAJ 7051, CAJ 7084	Non-insulated mechanical ductwork without dampers	1	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022
	2	CAJ 7046, CAJ 7051, CAJ 7084		2	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022
Insulated mechanical ductwork without dampers	N/A**	N/A**	Insulated mechanical ductwork without dampers	1	WJ 7029
				2	WJ 7029
Mixed penetrants	1	CAJ 8099, CAJ 8056, CAJ 8143	Mixed penetrants	1	CAJ 8099, CAJ 8056, WJ 8007, CAJ 8143
	2	CAJ 8099, CAJ 8056, CAJ 8143		2	CAJ 8099, CAJ 8056, WJ 8007, CAJ 8143
Wood floor			Gypsum wallboard assemblies		
Type of penetrant	F-rating (HR)	UL-Classified system	Type of penetrant	F-rating (HR)	UL-Classified system
Metal pipes or conduit	1	FC 1009, FC 1059	Metal pipes or conduit	1	WL 1054, WL 1058, WL 1164
	2	FC 1009, FC 1059		2	WL 1054, WL 1058, WL 1164
Non-metallic pipe or conduit	1	FC 2232, FC 2030, FC 2160, FC 2127, FC 2128	Non-metallic pipe or conduit	1	WL 2078, WL 2075, WL 2128
	2	FC 2029, FC 2030, FC 2128, FC 2127, FC 2160		2	WL 2078, WL 2075, WL 2128
Single or bundled cables	1	FC 3012, FC 3044	Single or bundled cables	1	WL 3065, WL 3111, WL 3112
	2	FC 3012		2	WL 3065, WL 3111, WL 3112
Insulated pipes	1	FC 5004, FC 5037, FC 5036	Cable tray	1	WL 4011, WL 4019
				2	WL 4011, WL 4019
	2	FC 5004, FC 5037	Insulated pipes	1	WL 5028, WL 5029, WL 5047
				2	WL 5028, WL 5029, WL 5047
Non-insulated mechanical ductwork without dampers	1	FC 7013	Non-insulated mechanical ductwork without dampers	1	WL 7017, WL 7040, WL 7042, WL 7155
				2	WL 7040, WL 7042, WL 7155
Insulated mechanical ductwork without dampers	1	N/A**	Insulated mechanical ductwork without dampers	1	WL 7059, WL 7153, WL 7156, WL 7151
	2	N/A**		2	WL 7059, WL 7153, WL 7156, WL 7151
Mixed penetrants	1	FC 8009, FC 8014, FC 8026, FC8025	Mixed penetrants	1	WL 1095, WL 8013
				2	WL 1095, WL 8013

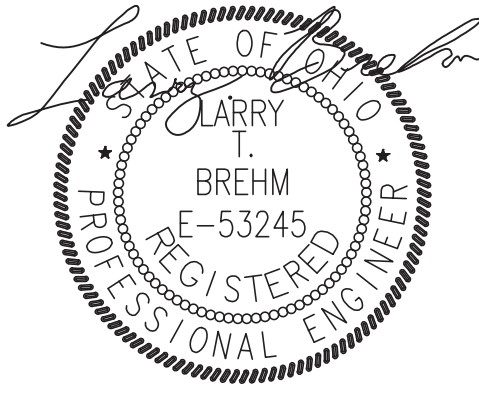
*Based on Hilti model numbers. See Division 7 specifications for other approved manufacturers.

Notes:

- Jobsite conditions of each through-penetration firestop system must meet all details of the UL-Classified System selected.
- If jobsite conditions do not match any UL-classified systems in the schedules above, contact one of the approved manufacturers for alternative systems or engineer judgment drawings.
- Where more than one applicable UL-Classified System is listed in the schedules, choose the UL System which is most economical for each through-penetration firestop system.
- Coordinate work with other trades to assure that penetration opening sizes are appropriate for penetrant locations, and vice versa.
- For 3-hour rated gypsum walls, contact one of the approved manufacturers for a UL-classified system or engineer judgment drawing.

HVAC General Notes

- Permits: Provide work in accordance with current version of applicable national, state, and local codes as determined by the Authorities Having Jurisdiction (AHJs). Applicable codes shall include ANSI A117.1 (latest edition), UFAS (Uniform Federal Accessibility Standards), FHAG (Fair Housing Accessibility Guidelines), and all other local/state accessibility codes and interpretations. Contractor shall be responsible for obtaining and paying for all permits and inspections. Contractor shall be familiar with local AHJ interpretations before the bid. All costs resulting from code interpretation shall be borne by the contractor.
- Contract Documents: All work shall be performed according to the Contract Documents. The Contract Documents include Architectural, Civil, Structural, Fire Protection, Plumbing, Mechanical, and Electrical design drawings, Specifications, and Addenda, Architect's Supplemental Instructions, Bulletins, Change Orders, and other instruction transmitted to modify the original documents. All of these documents are integral to the project. Refer to the specifications for general requirements, for product quality, construction and finish, and for additional installation instructions. Refer to the architectural drawings for accessibility compliance requirements. Review and understand the requirements of the Contract Documents before bidding. Confirm contract document and code compliance requirements with the Project Architect and General Contractor during bidding, and again during the Pre-Construction Conference prior to performing the work. Conflicts within or between the Contract Documents and referenced codes shall use the most stringent interpretation until clarified. Clarifications shall be requested in writing and shall be resolved prior to proceeding with installation. All costs due to performing work prior to conflict resolution shall be borne by the contractor.
- Coordination: The drawings are diagrammatic, schematic and shown for bidding and general reference. Drawings are not intended to define exact installation details and shall not be scaled. Confirm size and location of all work prior to bid and construction. Verify all existing conditions prior to bidding and construction. Verify exact dimensions and sequencing of the work and coordinate with the site, utilities, building structure and with all other trades. Coordinate exact locations of all work with other trades and suppliers before installation. Conceded conditions may occur, and scope changes required shall be approved by the Owner, the Architect, the Engineer, and the General Contractor, prior to proceeding with installation. All additional costs resulting from lack of coordination shall be borne by the contractor.
- Alternate Equipment: Alternate equipment and/or manufacturers must be approved prior to bid in writing via addendum, prior to bid in order for their bid to be accepted. If the equipment is not pre-approved then unspecified manufacturers and equipment shall be substitutions and submitted for consideration under the specified substitution procedures. All Costs associated with dimensional, performance or other deviations from the basis of design equipment, including engineering costs to evaluate such deviations, shall be borne by the contractor.
- Definitions: Furnish means to purchase, arrange for delivery to site, and to take delivery at the site. Install means to place in position for use. Provide means to furnish and install.
- Incidentals: Provide materials, labor, and incidental work (including protection of existing, surface preparation, hangars, and other appurtenances) to provide complete working HVAC systems for the project. Offsets, accessories, and other miscellaneous hardware are not shown, but shall be included at no additional cost where required to complete the system. Major deviations from the design shall be approved by the Architect and Engineer before ordering supplies or starting work.
- Warranty: To obtain final project certificates of occupancy upon completion of the work scope, contractor shall warrant that the work has been completed in compliance with established codes and regulations. Certificate shall be given to owner at project completion.
- Shop Drawings: Shall be reviewed by architect/engineer prior to submission for permit.
- Penetrations: Penetrations through fire/smoke rated construction shall be protected with a product listed and labeled to maintain the fire /smoke rating of system penetrated. HVAC, etc., which penetrate through walls, slabs, masonry, etc., shall do so through sleeves. All gaps outside and inside of the sleeves shall be caulked or be tightly packed with insulation (blanket or foam) in order to maintain proper protection against heat loss, infiltration, sound transmission, etc.
- Condensate Drains: Trap for condensate drain shall be 1" deeper than the total possible static pressure that the air handling unit can develop. Trap outlet shall be lower than inlet by 1" more than total unit static pressure.
- Piping in exterior walls shall be run inside of building insulation. Provide metal jacket up 8'-0" A.F.F. on all exposed insulated piping. Trapeze hangers may be used when grouping pipes.
- Air Ducts: Duct leakage shall be less than 4.0 CFM at 25 pascals/100 SF of conditioned floor area. Ducts shall run within thermal envelope. Air distribution within walls shall be fully ducted-no exposed studs, drywall, or sheathing. Ducts run outside thermal envelope shall have R=6 insulation minimum.
- Refrigerant: Provide Non-HCFC HVAC refrigerant, charge per manufacturer requirements. Forward test and refrigerant data to builder and green rater when complete.



May 31, 2016

**St. John
Lutheran Church**
6135 Rings Road
Dublin, Ohio 43016

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3. ADDITIONALLY, SEE GENERAL INFORMATION ON "NOT SHEETS."

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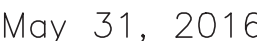
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**MECHANICAL
NOTES, SYMBOLS
AND ABBREVIATIONS**

M000

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architecture + interior design + engineering

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entry canopy floor plan 1/8"=1'-0"

MECHANICAL DEMOLITION FIRST FLOOR PLAN

MD101



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Coded Notes

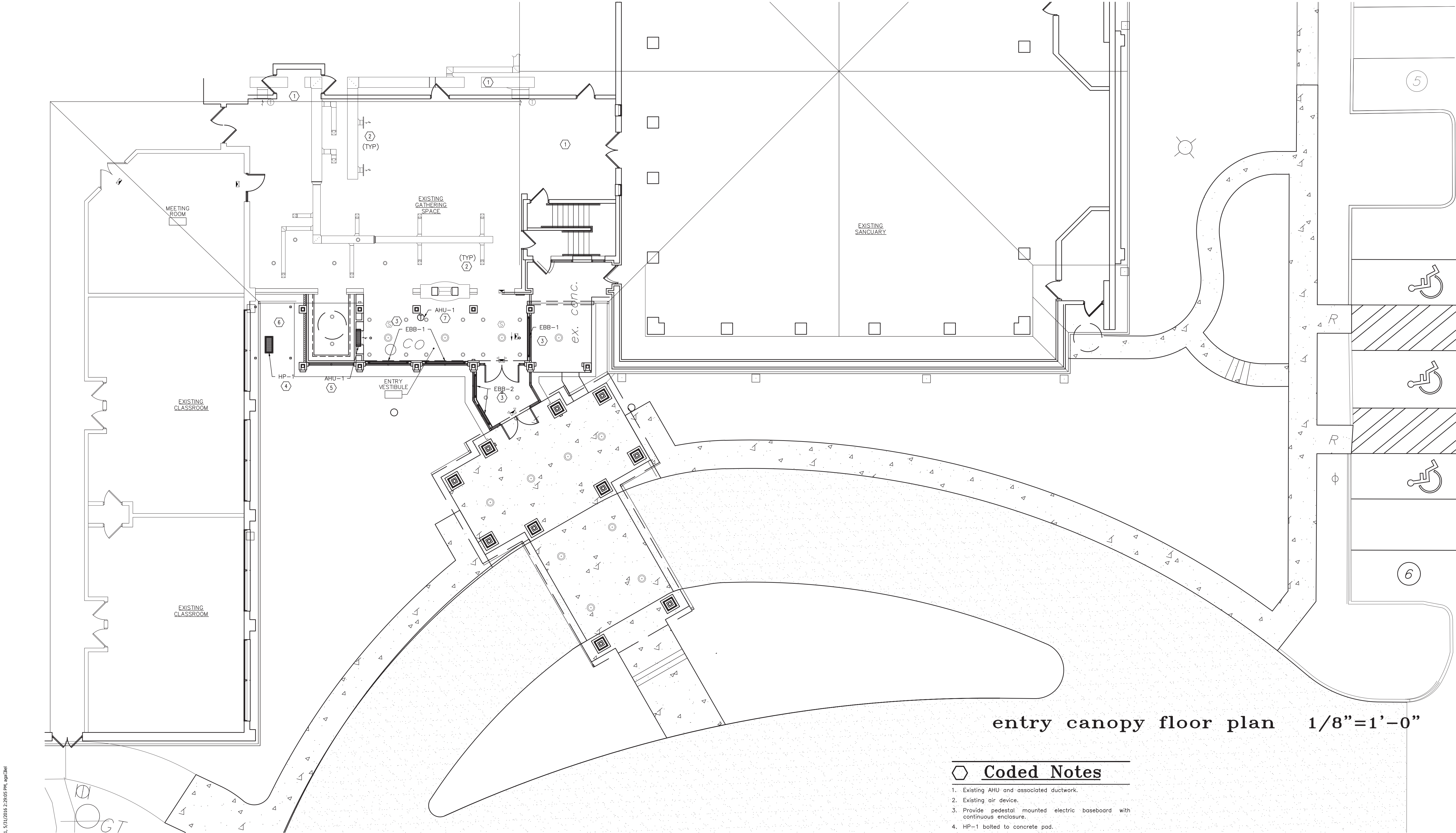
1. Existing AHU and associated ductwork to remain.
2. Existing air device to remain.
3. Existing ACCU to remain.

HVAC Demolition Notes

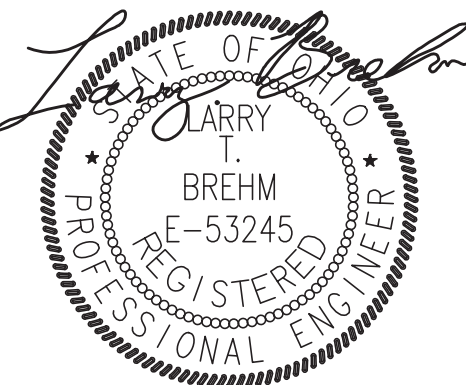
- A. Coordination: Confirm size and location of all work and verify all existing conditions prior to bidding and construction. Before starting work, refer to architectural demolition plan for areas with walls and ceilings demolished by others in order to reduce selective demolition quote. Coordinate demolition work with architectural phasing plans and/or specifications. Verify exact dimensions and sequencing of the work and coordinate with the building structure and with the other trades. Verify equipment locations with other contractors and disconnect service before removal. All additional costs resulting from lack of coordination shall be borne by the contractor.
- B. Demolition: HVAC contractor shall be responsible for all work and costs associated with demolition and replacement of the HVAC systems including permit, application, fees, dust control, protection of existing, temporary HVAC, and fuel usage. Verify exact requirements and coordinate with local utility. Contractor shall pay for all costs of disposal.
- C. Occupied Buildings: For occupied buildings, coordinate with local management for communication with building users, occupants, and/or residents regarding potential for disruption, and provide 72 hour advance notification for planned outages. Install new work to the fullest extent possible before interrupting existing services to minimize disruption to residents. Provide temporary heat/cooling equipment to prevent disruptions from lasting over four hours.
- D. Remove all HVAC equipment, ductwork, and air devices shown with dashed lines on plan unless noted otherwise. Plans show readily visible HVAC, and associated ductwork only. Quantities and locations may not be exact or readily accessible. Field verify before bid or include an allowance for items not shown but needing demolished as determined by the owner and/or architect.
- E. Removed equipment shall be turned over to owner (or hauled from site for disposal at owner's option).
- F. Where shown on plan as existing to be reused, quote additional price with bid for providing new equipment. Verify in field that existing equipment is safe and in good working order and if it is not, replace after authorized by owner's representative.

Proj#	2016-01-27	John Duthren	Client	PO#	EIR
Designed	XXX	XXX	XXX		XXX
Drafted	XXX	XXX	XXX		XXX
PM Check	XXX	XXX	XXX		XXX
QC Check	XXX	XXX	XXX		XXX

Project: M101	Drawn: J. Berardi	Checked: J. Berardi	Reviewed: J. Berardi	Approved: J. Berardi
Client: St. John Lutheran Church	Design: J. Berardi	Construction: J. Berardi	Installation: J. Berardi	Operation: J. Berardi
Discipline: Mechanical	Sub-discipline: HVAC	System: Entry Canopy	Equipment: AHU, EBB, HP	Material: Steel, Copper
Phase: Design	Sub-phase: Schematic	Iteration: 1.0	Revision: 1.0	Date: 05/27/2016
Author: J. Berardi	Checker: J. Berardi	Reviewer: J. Berardi	Approver: J. Berardi	Stamp: [Professional Engineer Seal]



- Coded Notes**
- Existing AHU and associated ductwork.
 - Existing air device.
 - Provide pedestal mounted electric baseboard with continuous enclosure.
 - HP-1 bolted to concrete pad.
 - AHU-1 condensate drain routed indirectly up to roof. Condensate shall spill onto roof.
 - Existing ACCU.
 - Thermostat mounted 4'-0" A.F.F. Provide clear locking lexan cover.



May 31, 2016

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MECHANICAL ENTRY CANOPY FLOOR PLAN

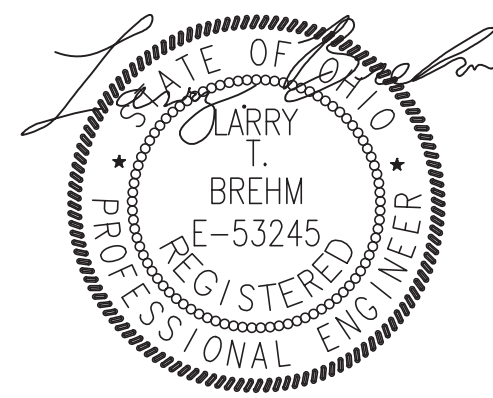
M101



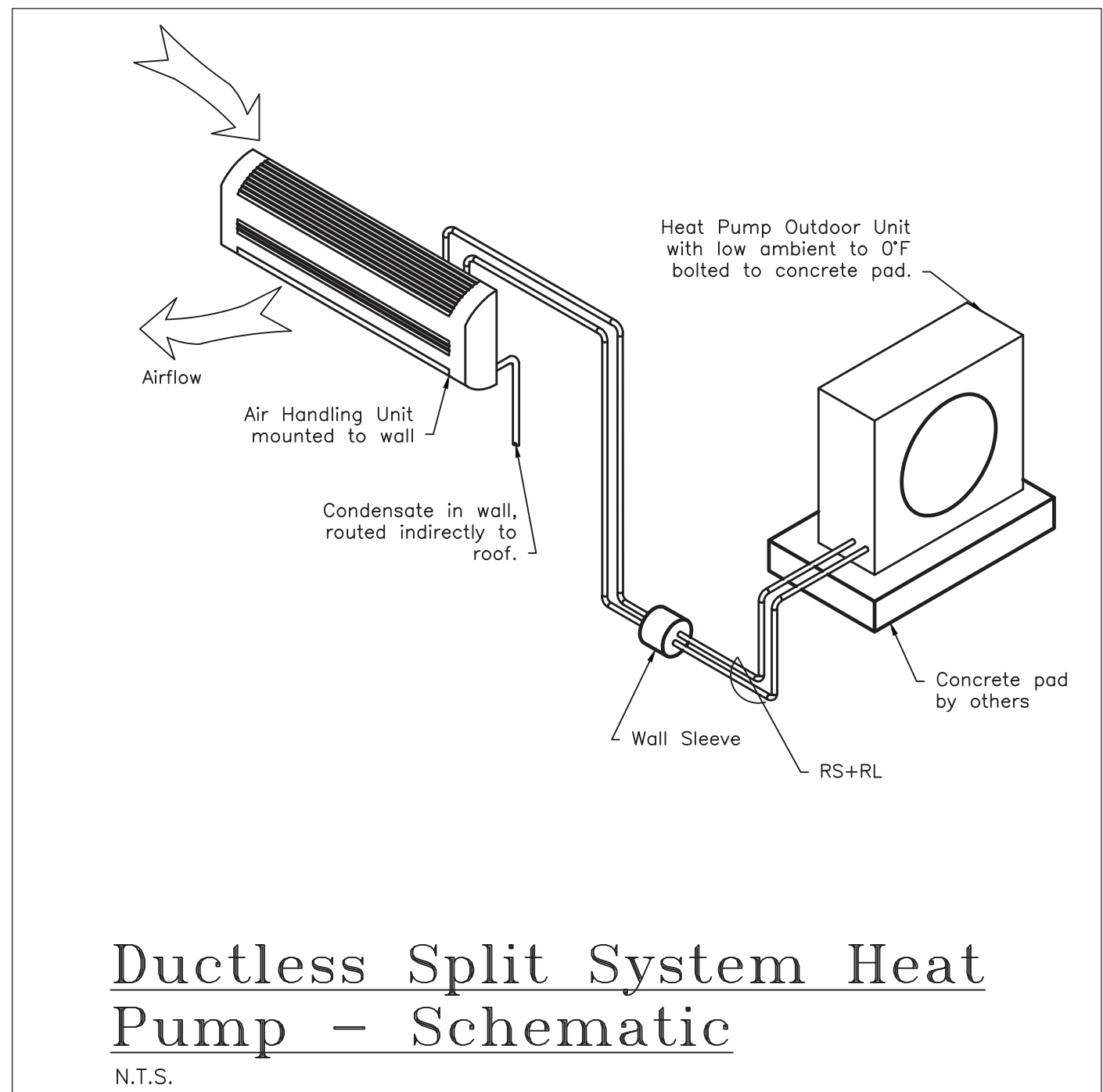
Electric Baseboard Heater Schedule					
MARK	KW	VOLTAGE	MANUFACTURER	MODEL	REMARKS
EBB-1	0.7	208V/1ø	Q-Mark	SLQDB07	B.I. Thermostat, *
EBB-2	0.6	208V/1ø	Q-Mark	SLQDB04	B.I. Thermostat, *

* Provide continuous enclosure, pedestal

* Provide continuous enclosure, pedestal



May 31, 2016

[illegible][illegible]

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Phase 201	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610
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(Not all Symbols Used)

(E)

X Direct expansion

L

Permits: Provide work in accordance with current version of applicable national, state, and local codes as determined by the Authorities Having Jurisdiction (AHJs). Applicable codes shall include ANSI A117.1 (latest edition), UFAS (Uniform Federal Accessibility Standards), FHAG (Fire Housing Accessibility Guidelines), and all other local/state accessibility codes or standards. Contractors shall be responsible for obtaining and paying for all permits and inspections. Contractors shall be familiar with local AHJ interpretations before the bid. All costs resulting from code interpretation shall be borne by the contractor.

B. Contract Documents: All work shall be performed according to the Contract Documents. The Contract Documents include Architectural, Civil, Structural, Fire Protection, Plumbing, Mechanical, and Electrical design drawings, Specifications, and Addenda, Architect's Supplemental Instructions, Bulletins, Change Orders, and other instruction transmitted to modify the Contract Documents. All of these documents are integral to the project. Refer to the specifications for general requirements, for product quality, construction and finish, and for additional installation instructions. Refer to the architectural drawings for accessibility compliance requirements. Review and understand the requirements of the Contract Documents before bidding. Confirm contract document and code compliance requirements with the Project Architect and General Contractor during bidding and again during the Pre-Construction Conference prior to performing the work. Conflicts within or between the Contract Documents and referenced codes shall use the most stringent interpretation until clarified. Clarifications shall be requested in writing and shall be resolved prior to proceeding with installation. All costs due to performing work prior to conflict resolution shall be borne by the contractor.

C. Coordination: The drawings are architectural, schematic and shown for bidding and general reference. Drawings are not intended to define exact installation details and shall not be used to confirm size and location of all work prior to construction. Contractors shall coordinate with the Owner, the Architect, the Engineer, and the General Contractor, and sequencing of the work and coordinate with the site, utilities, building structure and with all other trades. Coordinate exact locations of all work with other trades and suppliers before installation. Concealed conditions may occur, and the Contractor shall be responsible for approval by the Owner, the Architect, the Engineer, and the General Contractor, prior to proceeding with installation. All additional costs resulting from lack of coordination shall be borne by the contractor.

D. Alternate Equipment: Alternate equipment and/or manufacturers must be approved prior to bid in writing via addendum, prior to bid in order for their bid to be accepted. If the equipment is not pre-approved then unspecified manufacturers and equipment shall be substitutions and submitted for consideration under the specified substitution procedures. All Costs associated with dimensional, performance or other deviations from the basis of design equipment, including engineering costs to evaluate such deviations, shall be borne by the contractor.

E. Definitions: "Approved" means approved by the Engineer and Owner before order, purchase, or delivery. "Furnish" means to purchase, arrange for delivery to the site, and to take delivery at the site. "Install" means to place in position for use. "Incidents" means to furnish and install.

F. Provide: Materials, labor, and incidental work (including protection of existing, surface preparation, hangers, conduits, wiring, etc.) for providing a complete fire protection system for the project. Offsets, accessories, and other miscellaneous hardware are not shown, but shall be included at no additional cost where required to complete the system. Provide all final connections. Major deviations from the design shall be approved by the Architect and Engineer before ordering supplies or starting work.

G. Warranty: To obtain final project certificates of occupancy upon completion of the work scope, contractor shall warrant that the work has been completed in compliance with established codes and regulations. Certificate shall be given to Owner at project completion.

H. Penetrations: Conduits, cables, wiring, etc., which penetrate walls, slabs, masonry, etc. shall do so through pipe sleeves. Penetrations through unrated assemblies shall have sleeves sealed outside and inside with caulk or tightly packed with insulation (blanket or foam) to prevent heat loss, infiltration, sound transmission, etc. Penetrations through fire/smoke rated assemblies shall be protected with products listed and labeled to maintain the fire/smoke rating of the assembly. In rated assemblies, outlet, switch and junction boxes shall be steel, shall not exceed 16 square inches in area, and shall be located at least 18 inches above the assembly. In unrated assemblies, boxes shall not exceed 100 square feet of assembly area, and annular space between the membrane and box shall not exceed 1/8 inch. Boxes on opposite sides of a rated assembly shall be separated by a 24 inch horizontal distance, by approved insulation method, by solid fireblocking, or protected with putty pads or with other listed means, materials, methods, or products.

I. Costs: Electrical contractor shall be responsible for all costs associated with the installation of electrical systems including conduit, utility transformer, transformer pad, primary feeders, secondary feeders, trenching, and backfill. E.C. shall provide all materials and equipment for the electrical system, including all materials and local utility providing power service. The E.C. shall provide for costs of final connections by utility company.

J. Lighting: All lights shall be switched per standard practice, ASHRAE 90.1/90.2 and the model energy code. Areas with more than one entry and exit shall have three or three-four way switching, typical for all spaces unless otherwise noted. All inconducant can lights shall have dimmer switches. Exact switch location to be determined in field with architect's representative. Provide all exit lights, in locations and configurations required by the authority having jurisdiction.

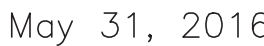
K. Telephone: existing to remain.

L. Television: Existing to remain.

M. Fire Alarm: Existing to remain.

N. Voltage Drop: Wire sizes shall be increased in size to limit voltage drop to 5% total. Unless otherwise noted or contractor calculations submitted and approved, the following (copper) wire size combinations shall be used:

House 100 Amp panel feeder #2 AWG up to 160', #1 AWG up to 130', #1/0 AWG up to 160' (1% drop).
House 200 Amp panel feeder #3/0 AWG up to 115', #4/0 AWG up to 140', #250 kCmil up to 155' (1% drop).
House 15 Amp branch circuits #14 AWG up to 55', #12 AWG up to 90', #10 AWG up to 145' (4% drop).
House 20 Amp branch circuits #12 AWG up to 70', #10 AWG up to 105', #8 AWG up to 170' (4% drop).



6135 Rings Road
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NOTE:

1. ALL BIDDERS SHALL VISIT THE SITE AND BECOME FAMILIAR W/ THE EXISTING CONDITIONS AND REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT OF ANY ERRORS AND OMISSIONS SUBSEQUENTLY DISCOVERED IN THE CONTRACT DOCUMENTS.

3. ADDITIONALLY, SEE GENERAL INFORMATION ON "AO" SHEETS.

4. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S

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ARISING FROM ANY UNAUTHORIZED TRANSFER, REUSE OR

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DATE: 12/06/2012
PROJECT #: 12161

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ISSUE DATE: 05/24/19

ISSUE DATE: 05/31/16

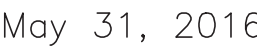
REVISIONS:

Permit Comments  07/26/2013Value Engineering 05/27/2016

E000

architecture + interior design + engineering

369 East Livingston Ave. Columbus, Ohio 43215
Phone (614)221-1110 Fax (614)221-0831
www.berardipartners.com



St. John
Lutheran Church
6135 Rings Road
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NOT

2. THE CONTRACT DOCUMENTS ARE COMPRISED OF THE DRAWINGS AND THE PROJECT MANUAL IN THEIR ENTIRETY. THE INFORMATION IN THE DOCUMENTS IS DEPENDENT UPON AND COMPLEMENTARY OF EACH OTHER. SEPARATION OF THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED. IF THE CONTRACTOR CHOOSES TO SEPARATE THE DOCUMENTS, THEY DO SO AT THEIR OWN RISK AND EXPENSE.

3. ADDITIONALLY, SEE GENERAL INFORMATION ON "AO" SHEET:

THE CONSULTANT (ARCHITECT) PROFESSIONAL SERVICE. THE CLIENT SHALL NOT REUSE OR MAKE, OR PERMIT TO BE MADE ANY MODIFICATION TO THE DRAWINGS AND SPECIFICATIONS WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT (ARCHITECT). THE CLIENT AGREES TO WAIVE ANY CLAIM AGAINST THE CONSULTANT (ARCHITECT) ARISING FROM ANY UNAUTHORIZED TRANSFER, REUSE OR MODIFICATION OF THE DRAWINGS AND SPECIFICATIONS.

3. ARCHITECT CANNOT WARRANT THE ACCURACY OF DATA CONTAINED HEREIN. ANY USE OR REUSE OF ORIGINAL OR ALTERED CADD DESIGN MATERIALS BY THE USER OR OTHER PARTIES WITHOUT THE REVIEW AND WRITTEN APPROVAL OF THE ARCHITECT SHALL BE AT THE SOLE RISK OF THE USER. FURTHERMORE, USER AGREES TO DEFEND, INDEMNIFY, AND HOLD ARCHITECT HARMLESS FROM ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEY'S FEES ARISING OUT OF THE MODIFICATION OR REUSE OF THESE MATERIALS.

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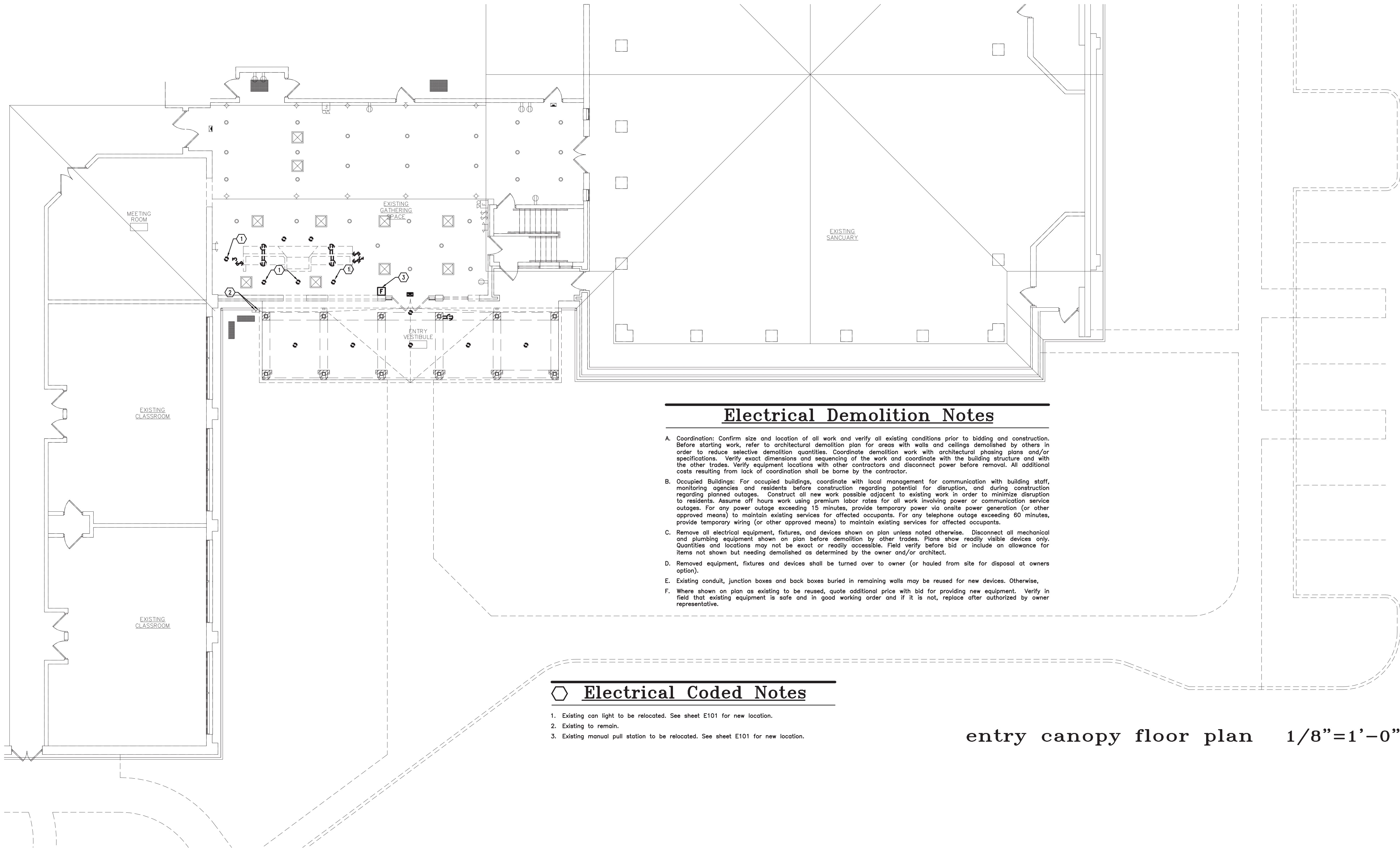
Permit Comments 07/26/2013Value Engineering 05/27/2016

ELECTRICAL DEMOLITION FIRST FLOOR PLAN

ED101



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Electrical Demolition Notes

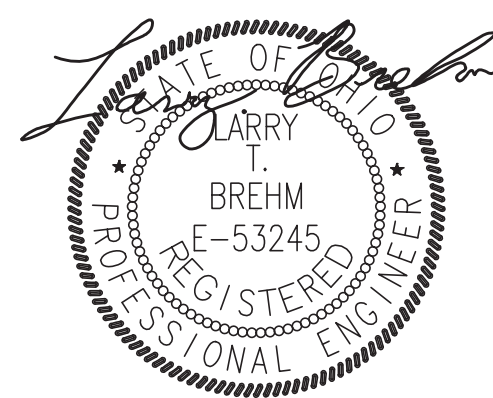
- A. Coordination: Confirm size and location of all work and verify all existing conditions prior to bidding and construction. Before starting work, refer to architectural demolition plan for areas with walls and ceilings demolished by others in order to reduce selective demolition quantities. Coordinate demolition work with architectural finishing plans and/or mechanical and electrical plans. Determine dimensions and sequencing of work to be coordinated with the building structure and the other trades. Verify equipment locations with other contractors and disconnect power before removal. All additional costs resulting from lack of coordination shall be borne by the contractor.
- B. Occupied Buildings: For occupied buildings, coordinate with local management for communication with building staff, monitoring agencies and residents before construction regarding potential for disruption, and during construction regarding planned outages. Construct new work possible adjacent to existing work in order to minimize disruption to building occupants. Advise building management of any planned outages. For any power outage exceeding 15 minutes, provide temporary power via onsite power generation (or other approved means) to maintain existing services for affected occupants. For any telephone outage exceeding 60 minutes, provide temporary wiring (or other approved means) to maintain existing services for affected occupants.
- C. Remove all electrical equipment, fixtures, and devices shown on plan unless noted otherwise. Disconnect all mechanical and plumbing equipment shown on plan before demolition by other trades. Plans show readily visible devices only. Items not shown but needed demolished as determined by the owner and/or architect.
- D. Removed equipment, fixtures and devices shall be turned over to owner (or hauled from site for disposal at owners option).
- E. Existing conduit, junction boxes and back boxes buried in remaining walls may be reused for new devices. Otherwise, field that existing equipment is safe and in good working order and if it is to be replaced after equipment by owner representative.

Electrical Coded Notes

1. Existing can light to be relocated. See sheet E101 for new location.
2. Existing to remain.
3. Existing manual pull station to be relocated. See sheet E101 for new location.

entry canopy floor plan 1/8"=1'-0"

Prüfung 20_2782646-S	Johannes Lutheraus Chair	9030392		Doc:	□□01.dwg	□□01_5/31/2016 2:02:□□PM	apc@l
Designed	xxx	xxx	xxx	xxx	xxx		
Drafted	xxx	xxx	xxx	xxx	xxx		
PM Check	xxx	xxx	xxx	xxx	xxx		
QC Check	xxx	xxx	xxx	xxx	xxx		



May 31, 2016

**St. John
Lutheran Church**
6135 Rings Road
Dublin, Ohio 43016

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THE DOCUMENTS, THEY DO SO AT THEIR OWN RISK AND EXPENSE.

3. ADDITIONALLY, SEE GENERAL INFORMATION ON "NOT SHEETS."

4. THE CLIENT ACKNOWLEDGES THE CONSULTANTS' (ARCHITECT) DRAWINGS AND SPECIFICATIONS, INCLUDING ALL
DOCUMENTS ON ELECTRONIC MEDIA AS INSTRUMENTS OF
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Permit Comments: 05/14/2013

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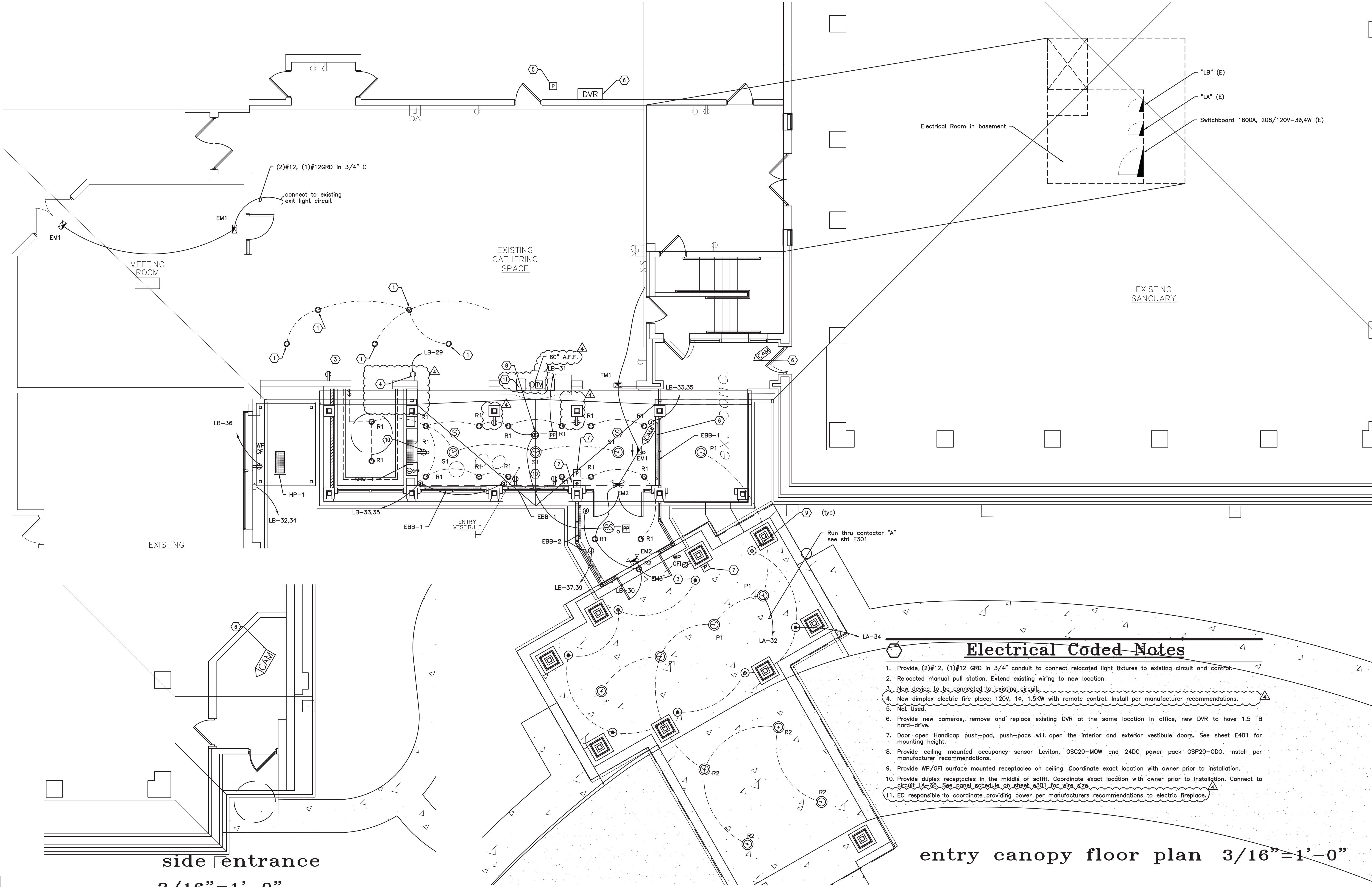
Value Engineering: 05/27/2016

**ELECTRICAL
ENTRY CANOPY
FLOOR PLAN**

E101

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Electrical Coded Notes

1. Provide (2)#12, (1)#12 GRD in 3/4" conduit to connect relocated light fixtures to existing circuit and control.
2. Relocated manual pull station. Extend existing wiring to new location.
3. New device to be connected to existing circuit.
4. New dimplex electric fire place: 120V, 1ø, 1.5KW with remote control. Install per manufacturer recommendations.
5. Not Used.
6. Provide new cameras, remove and replace existing DVR at the same location in office, new DVR to have 1.5 TB hard-drive.
7. Door open Handicap push-pad, push-pads will open the interior and exterior vestibule doors. See sheet E401 for mounting height.
8. Provide ceiling mounted occupancy sensor Leviton, OSC20-MOW and 24DC power pack OSP20-ODO. Install per manufacturer recommendations.
9. Provide WP/GFI surface mounted receptacles on ceiling. Coordinate exact location with owner prior to installation.
10. Provide duplex receptacles in the middle of soffit. Coordinate exact location with owner prior to installation. Connect to circuit LA-36. See panel schedule on sheet E301 for wire size.
11. EC responsible to coordinate providing power per manufacturers recommendations to electric fireplace.

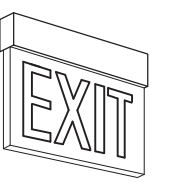

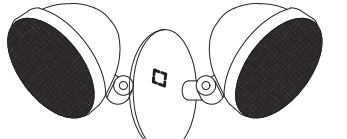
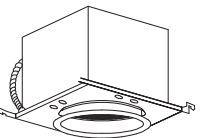
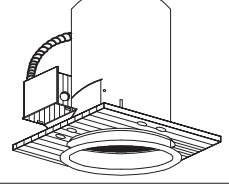


side entrance

3/16"=1'-0"

entry canopy floor plan 3/16"=1'-0"

Project: St. John Lutheran Church	Sheet: E101	Date: 12/06/2012	Time: 2:55:11 PM	By: [Signature]
Architect: Berardi + Partners, Inc.	Engineer: Larry Brehm	Checker: [Signature]	Reviewer: [Signature]	Approver: [Signature]
Scale: 3/16"=1'-0"	Scale: 3/16"=1'-0"	Scale: 3/16"=1'-0"	Scale: 3/16"=1'-0"	Scale: 3/16"=1'-0"
Notes: See sheet E301 for wiring schedule.	Notes: See sheet E301 for wiring schedule.	Notes: See sheet E301 for wiring schedule.	Notes: See sheet E301 for wiring schedule.	Notes: See sheet E301 for wiring schedule.

Light Fixture Schedule

Image	Tag	Description	Manufacturer Model #	Finish	Lamp	Lamp Qty	Lamp Wattage	Voltage	Length [in.]	Width [in.]	Depth [in.]	Energy Star	Remarks
	EM1	Exit Sign	Lithonia LRP ----	Brushed Aluminum Mounting Plate	LED	1	23	120	12.25	5	8	Incl.	Housing finish as selected by architect. Double faced UNO. Letter color and direction coordinate with AHJ. Coordinate voltage to match circuit. Recessed ceiling mount UNO.
	EM2	Exit Sign/Emergency Light Combo.	Lithonia LHQM S W 1 R 120	White	Krypton	2	5.4	120	21.25	4.875	9.875	N/A	Spacing and coverage guide: Fixture Path of Egress Spacing 3ft wide 5ft wide Center to center 25' 20' Single unit 24' 18' (For minimum 150 coverage on path of egress)
	EM3	Emergency Remote Lamp Head	Lithonia ELA-T--	Gray	Halogen	2	8	120	7	7.5	5	N/A	-Exterior emergency remote lamp heads -Double lamp heads -Weatherproof fixture exterior mounting -Provide additional battery capacity for added load.
	R1	Recessed Fire Rated Can Light	Prescolite FT6CF	White	CFL	1	26	120	12.563	9.5	8.5625	N/A	
	R2	Recessed Exterior Can Light	Prescolite CF7826HEB	White	CFL	1	26	120	14.438	9	7.125	N/A	Fluorescent can light lens for exterior use. Lens shall be flat fresnel lens, door shall be regressed white door, stepped black baffle, semi specular clear anodized aluminum reflect, white painted flange. Electrical system: die cast aluminum socket housing class "P" thermally protected, high power factor electronic ballast. Sloped ceiling adapter: SCA8D.
	S1	Surface Mounted	Kendal Lighting FW07POB-01OR B	Oil Rubbed Bronze with Caspian Glass	CFL	1	14	120	13ø	5	5	N/A	Provide EcoSmart 14W candelabra E12 base light bulb.
	P1	Pendant	Hinkley Lighting 200202 Parkside #6756161S	Oil Rubbed Bronze	CFL	1	26	120	20	9		N/A	Coordinate chain length on field with owner and architect.

Ratings:		GENERAL INFORMATION:			MAIN OPTIONS:			BUSS OPTIONS:			BRANCH OPTIONS:			
PANEL LA	LOCATION: LOWER LEVEL ELEC RM				MAIN BREAKER: N			NEUTRAL BUS: Y			G = W/ GFCI PROTECTION			
AMPS: 250	MOUNTING: SURFACE				W/ SHUNT TRIP: N			SERVICE RATED: N			A = W/ ARC FAULT			
VOLTS: 208	FED FROM: PANEL SES				MAIN LUGS ONLY: Y			GRD. BUS: Y			R = W/ RELAY CONTROL			
PHASE: 3	SHORT CIRCUIT: EXISTING				SUB-FEED LUGS: N			ISO. GRD. BUS: N			L = W/ LOCK ON DEVICE			
WIRE: 4					FEED THRU LUGS: N									
VA	LOAD	WIRE	GRD	CB/P	*	CKT	Ø	CKT	*	CB/P	GRD	WIRE	LOAD	VA
0	LOWER LEVEL LTG				E	1	A	2	E				LOWER LEVEL RECEIPT	0
0	LOWER LEVEL LTG				E	3	B	4	E				MECH RM RECEIPT	0
0	SUMP PUMP ELEV				E	5	C	6	E	20/1			SPARE	0
0	ELEVATOR CAR LTG				E	7	A	8	E	20/1			SPARE	0
0	GRV/LTG ELEV				E	9	B	10	E				RECIRCULATION PUMP	0
0	LIGHTING COMPUTER				E	11	C	12	E				OUTLET	0
0	SPARE			20/1	E	13	A	14	E				AHU-1 CONTROLLER	0
0	CONTRACTOR B				E	15	B	16	E	20/1			SPARE	0
0	CONTRACTOR A				E	17	C	18	E				OUTDOOR LIGHTS	0
0	PHONEBOARD RECEIPT				E	19	A	20	E				GROUND LIGHTS	0
0	SPACE				E	21	B	22	E				ORGAN CONTROLLER	0
0	SPACE				E	23	C	24	E				POLE LIGHTS	0
0	POLE LIGHTS				E	25	A	26	E				" "	0
0	" "				E	27	B	28	E				POLE LIGHTS	0
0	RF1				E	29	C	30	E				" "	0
0	" "				E	31	A	32	N				" "	0
0	" "				E	33	B	34	N	20/1	12	12	RECEPTACLES	1260
0	SPARE			20/1	E	35	C	36	N	20/1	15	15	RECEPTACLES	900
0	ORGAN BLOWER				E	37	A	38	E				SPARE	0
0	" "				E	39	B	40	E				" "	0
0	" "				E	41	C	42	E				" "	0

	CONNECTED (VA)	DEMAND FACTOR	DEMAND (VA)
LIGHTING	364	125%	455
RECEPTACLES	2,160	100% FOR < 10KVA 50% REMAINING VA	2,160
MECHANICAL EQUIPMENT	0	100%	0
MISCELLANEOUS	0	100%	0
PANEL TOTAL (VA)	2,524		2,615
CURRENT @ 208V 3Ø (AMPS)	7.0		7.5

	CONNECTED (VA)	DEMAND FACTOR	DEMAND (VA)
LIGHTING	416	125%	520
RECEPTACLES	230	100% FOR < 10KVA 50% REMAINING VA	230
MECHANICAL EQUIPMENT	5,796	100%	5,796
MISCELLANEOUS	250	100%	250
PANEL TOTAL (VA)	6,692		6,796
CURRENT @ 208V 3Ø (AMPS)	18.4		18.9

PHASE A CONNECTED LOAD (kVA) = 0.36

PHASE B CONNECTED LOAD (kVA) = 1.26

PHASE C CONNECTED LOAD (kVA) = 1.40

TOTAL CONNECTED LOAD (kVA) = 2.02

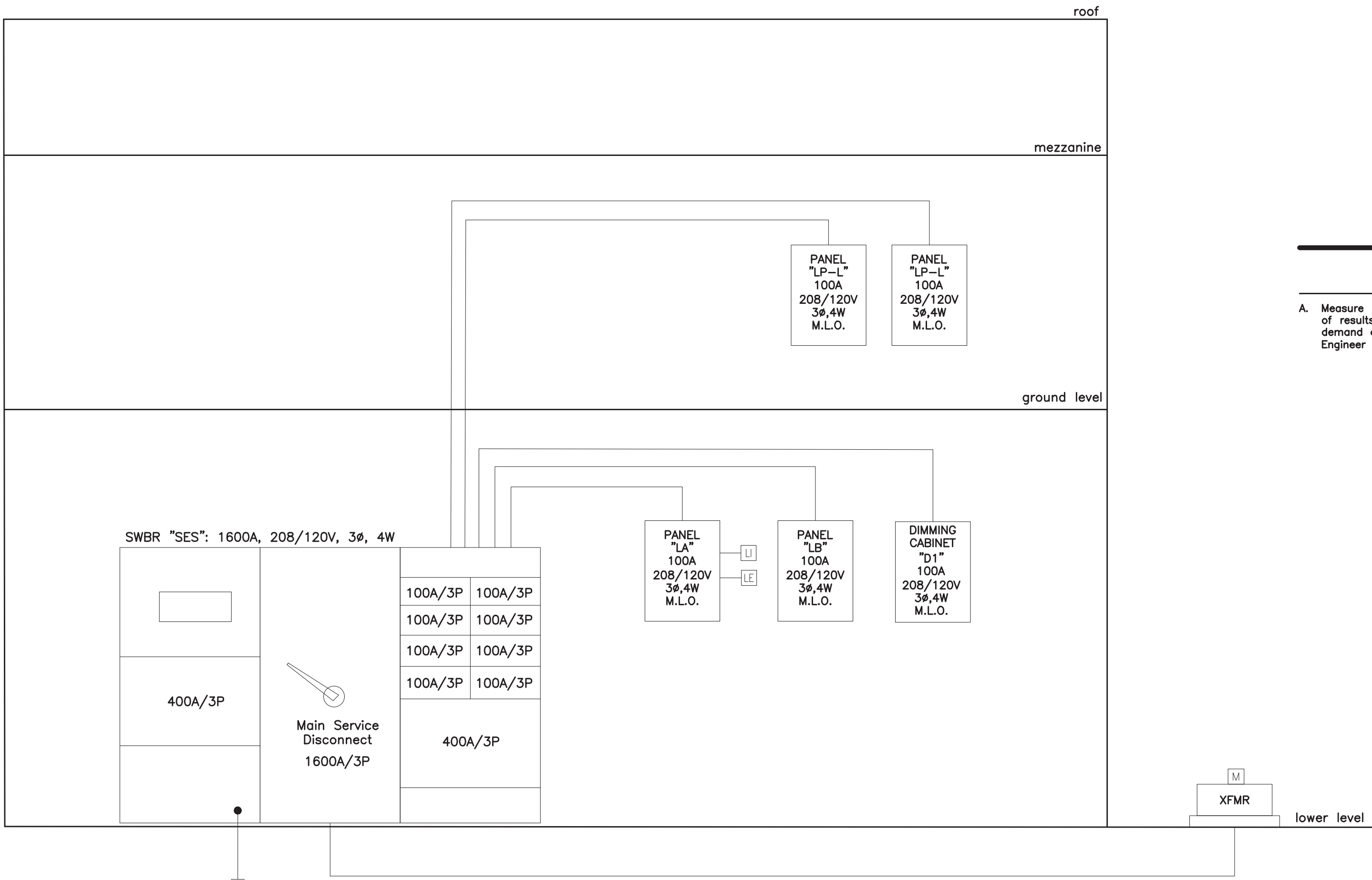
TOTAL CONNECTED LOAD (AMPS) = 7.01

Ratings:		GENERAL INFORMATION										MAIN OPTIONS										BUSS OPTIONS				BRANCH OPTIONS*											
PANEL LB		LOCATION: LOWER LEVEL ELEC RM										MAIN BREAKER N										NEUTRAL BUS Y				G = W/ GFCI PROTECTION											
AMPS: 250		MOUNTING: SURFACE										W/ SHUNT TRIP N										SERVICE RATED N				A = W/ ARC FAULT											
VOLTS: 208		FED FROM: PANEL SES										MAIN LUGS ONLY Y										GRD. BUS Y				R = W/ RELAY CONTROL											
PHASE: 3		SHORT CIRCUIT: EXISTING										SUB-FEED LUGS N										ISO. GRD. BUS N				L = W/ LOCK ON DEVICE											
WIRE: 4												FEED THRU LUGS N																									
VA		LOAD										WIRE		GRD		CB/P		*		CKT		Ø		CKT		*		CB/P		GRD		WIRE		LOAD		VA	
0		WOMEN RESTROOM LTG																E		1		A		2		E								RECEPTACLES		0	
0		MENS RESTROOM LTG																E		3		B		4		E								RECEPTACLES		0	
0		MEETING RM LTG																E		5		C		6		E								MEETING RM RECEPT		0	
0		CLASSROOM LTG																E		7		A		8		E						GFI RECEPT BY SINK		0			
0		HALLWAY LTG																E		9		B		10		E						RECEPTACLES		0			
0		SPACE																E		11		C		12		E						RECEPTACLES		0			
0		PRACTICE RM LTG																E		13		A		14		E						RECEPTACLES		0			
0		PRACTICE RM LTG																E		15		B		16		E						WATER COOLERS		0			
0		SPARE														20/1		E		17		C		18		E						MICROWAVE/REFRIG		0			
0		SPARE														20/1		E		19		A		20		E						HEATER		0			
0		SPACE																E		21		B		22		E						RECEPTICAL RM RECEPT		0			
0		AHU STARTER #2																E		23		C		24		E						AHU STARTER #1		0			
0		" "																E		25		A		26		E						" "		0			
0		" "																E		27		B		28		E						" "		0			
50		FIRE PLACE RECEPTACLES										12		12		20/1		N		29		C		30		N		15/1		14		14		DOOR OPENERS		250	
416		VESTIBULE LIGHTS										12		12		20/1		N		31		A		32		N		20/2		12		12		" "		1248	
1050		EBB-1										12		12		20/2		N		33		B		34		N								" "		1248	
1050		" "										12		12		20/2		N		35		C		36		N		20/1		12		12		SERVICE RECEIPT		180	
600		EBB-2										12		12		20/2		N		37		A		38		N								SPACE		0	
600		" "										12		12		20/2		N		39		B		40		N								SPACE		0	
0		SPACE																		41		C		42		E								SPACE		0	

	CONNECTED (VA)	DEMAND FACTOR	DEMAND (VA)
LIGHTING	416	125%	520
RECEPTACLES	230	100% FOR < 10KVA 50% REMAINING VA	230
MECHANICAL EQUIPMENT	5,796	100%	5,796
MISCELLANEOUS	250	100%	250
PANEL TOTAL (VA)	6,692		6,796
CURRENT @ 208V 3Ø (AMPS)	18.4		18.9

PHASE A CONNECTED LOAD (kVA) = 2.26
PHASE B CONNECTED LOAD (kVA) = 2.90
PHASE C CONNECTED LOAD (kVA) = 1.53
TOTAL CONNECTED LOAD (kVA) = 6.69

TOTAL CONNECTED LOAD (AMPS) = 18.58

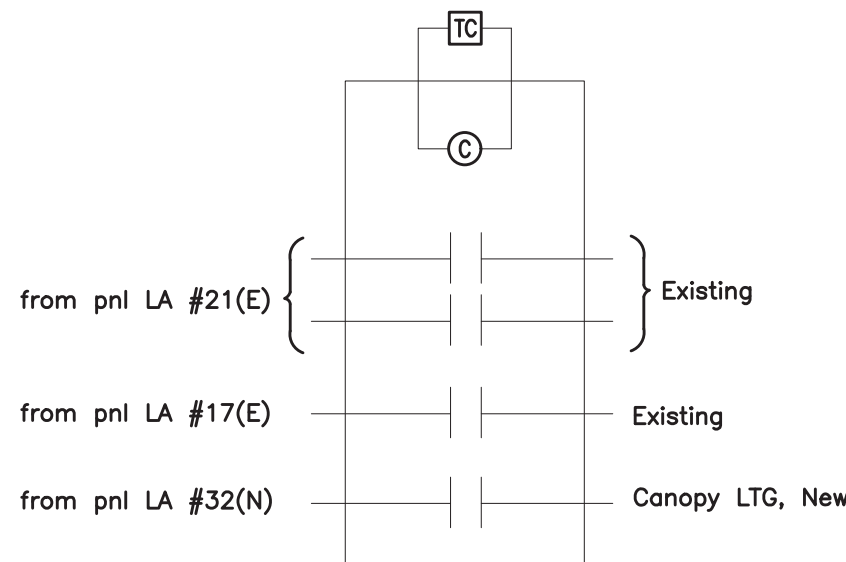


Existing Power Distribution System

Indicates existing to remain
Indicates demolition work

General Notes

A. Measure demand at all panels and other equipment prior to starting work and advise engineer of results in addition to existing feeder conductor sizes. Measure the highest 15 minute power demand over a minimum 30 day period using a recording ammeter per NEC 220.87. Also advise Engineer if any overloaded phases are found.



Existing Contactor "A"

Construction Set

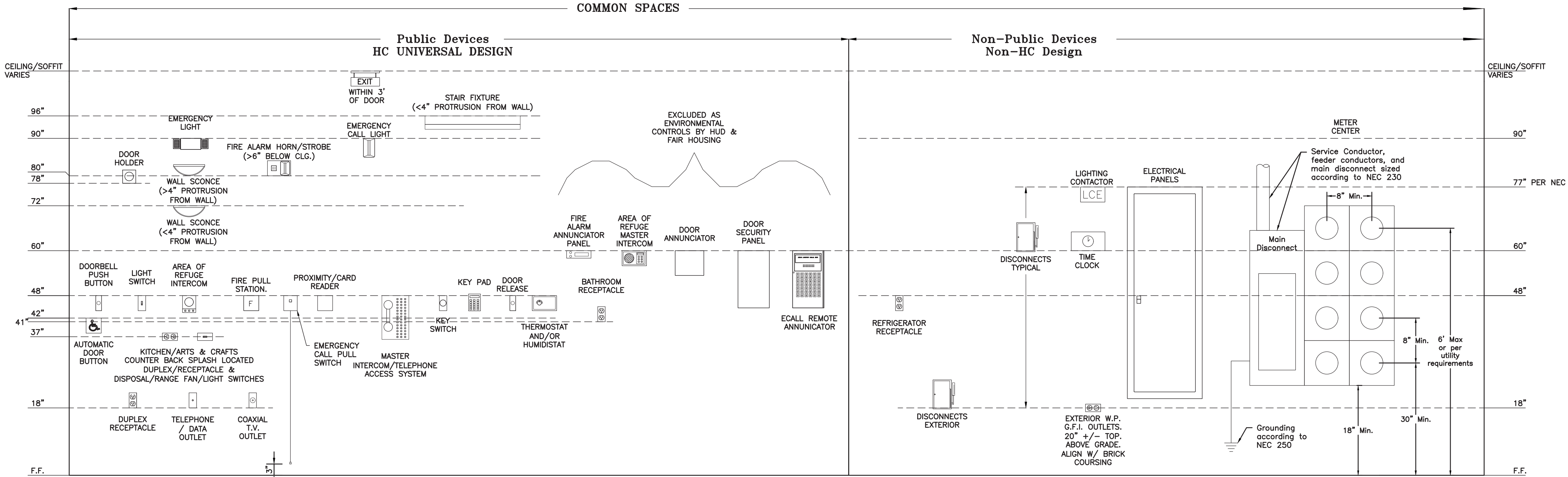
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REVISIONS:
Permit Comments: 05/14/2013
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Value Engineering: 05/27/2016

ELECTRICAL RISER DIAGRAM

E301

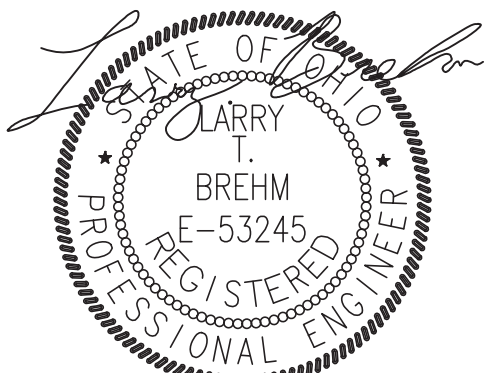
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BPI Device Mounting Heights (Unless Noted Otherwise)
NOT TO SCALE



May 31, 2016

St. John Lutheran Church
6135 Rings Road
Dublin, Ohio 43016

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Construction Set

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369 East Livingston Ave. Columbus, Ohio 43215
Phone (614)221-1110 Fax (614)221-0831
www.berardipartners.com