ARCHITECT

BOTTOM OF

CAST IN PLACE

CENTIMETER

CEMENT/CEMENTITIOUS



# HCA - Surgery Center of Lee's Summit 1950 SE Shenandoah Drive Lee's Summit, MO 64063

\*RENDERING FOR ILLUSTRATIVE PURPOSES ONLY

# PROJECT TEAM

**ARCHITECT** ACI BOLAND, INC.

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**CIVIL ENGINEER** 

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4338 Belleview Ave Kansas City, MO 64111

816.531.4144

**MEP ENGINEER Branch Pattern** 

1508 Grand Boulevard PHONE

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## **ABBREVIATIONS**

PLAM. PLASTIC LAMINATE FOUNDATION PLBG. PLUMBING PLYWD. PLYWOOD GRILLE P.S.I. POUNDS PER SQ. IN. P.S.F. POUNDS PER SQ. F GROUND GALVANIZED STEEL P.L. PROPERTY LINE GWB/G.B. GYPSUM BOARD RISER, RISERS **ROOF DRAIN** HARDWARE REFER TO HDWD. HARDWOOD REGISTER HEATER REQ'D. REQUIRED HIGH POINT RF'G. ROOFING HOLLOW METAI HOSE BIB HOT WATER R.O. ROUGH OPENING INCH / INCHES INSIDE DIAMETER SCHED. SCHEDULE SEALED CONCRETE SLDG. SLIDING SW.BD. SWITCHBOARD TOP OF CURB U.N.O. UNLESS NOTED OTHERWISE V. VENT VERT. VERTICAL V.G. VERTICAL GRAIN VEST. VESTIBULE V.C.T. VINYL COMPOSITION TILE VCP VITREOUS CLAY PIPE W.W.M. WELDED WIRE MESH W.C. WATER CLOSET W.H. WATER HEATER W.F. WIDE FLANGE WITH W/O WITHOUT WD. WOOD WDW. WINDOW

## LOCATION PLAN





**KEY PLAN** 

## SHEET INDEX - CORE/SHELL **COVER SHEET** U.L. DESIGN ASSEMBLIES

**OVERALL GRADING PLAN** TOP OF CURB PLAN STORM PLAN & PROFILE 2 CONSTRUCTION DETAILS CONSTRUCTION DETAILS 3 CONSTRUCTION DETAILS 5 **IRRIGATION DETAILS 1** ARCHITECTURAL SITE PLAN & DETAILS

**ROOF DETAILS** REFLECTED CEILING PLAN DOOR AND FRAME SCHEDULE AND DETAILS GLAZING ELEVATIONS **BUILDING SECTIONS** SECTION DETAILS

HIGH (MAIN) ROOF FRAMING PLAN ROOF FRAMING SECTIONS

# SHEET INDEX - TI

SHEET NUMBER TI - FIRST FLOOR PLAN ENLARGED ANNOTATION PLAN - AREA C ENLARGED RCP - AREA A ENLARGED RCP - AREA B ENLARGED RCP - AREA C DOOR AND FRAME SCHEDULE AND DETAILS ROOM FINISH SCHEDULE & FINISH LEGEND FFE SCHEDULE OVERALL FLOOR FINISH PLANS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR DETAILS

MECHANICAL LEGEND & NOTES FIRST FLOOR HVAC PLAN - AREA A FIRST FLOOR HVAC PLAN - AREA B FIRST FLOOR HVAC PLAN - AREA C FIRST FLOOR HVAC ROOM PRESSURIZATION PLAN - OVERALL FIRST FLOOR HYDRONIC PLAN - AREA B FIRST FLOOR HYDRONIC PLAN - AREA C

ROOF MECHANICAL PLAN MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL SCHEDULES MECHANICAL SCHEDULES MECHANICAL SCHEDULES MECHANICAL SCHEMATICS ENLARGED MECHANICAL PLANS MECHANICAL CONTROLS MECHANICAL CONTROLS

FIRE PROTECTION GENERAL NOTES FIRST FLOOR FIRE PROTECTION PLAN

FIRST FLOOR WATER & GAS PLAN - AREA A FIRST FLOOR GAS & VACUUM PLAN - AREA B FIRST FLOOR GAS & VACUUM PLAN - AREA C ROOF PLUMBING PLAN

PLUMBING DETAILS PLUMBING DETAILS PLUMBING SCHEDULES PLUMBING SCHEDULES PLUMBING WATER AND NATURAL GAS RISER PLUMBING DRAIN AND VENT RISER PLUMBING MED GAS RISER ELECTRICAL LEGEND & NOTES ELECTRICAL SITE PLAN FIRST FLOOR POWER PLAN - OVERALL

ROOF ELECTRICAL PLAN FIRST FLOOR LIGHTING PLAN - OVERALL FIRST FLOOR SPECIAL SYSTEMS PLAN - OVERALL ENLARGED ELECTRICAL PLANS ELECTRICAL DETAILS ONE-LINE DIAGRAM ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES

P6.1

P6.2

P7.3

E0.1

E1.1

E1.2

E6.1

E7.1

E7.2

E7.4

P7 1

TECHNOLOGY TECHNOLOGY LEGEND FIRST FLOOR TECHNOLOGY PLAN - OVERALL T2.1 TECHNOLOGY DETAILS NURSE CALL DETAILS

TECHNOLOGY SIGNAL FLOWS

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**COVER SHEET** 

BOLAND ARCHITECTS

**CIVIL CONSULTANT** 

STRUCTURAL CONSULTANT Bob D. Campbell & Co.

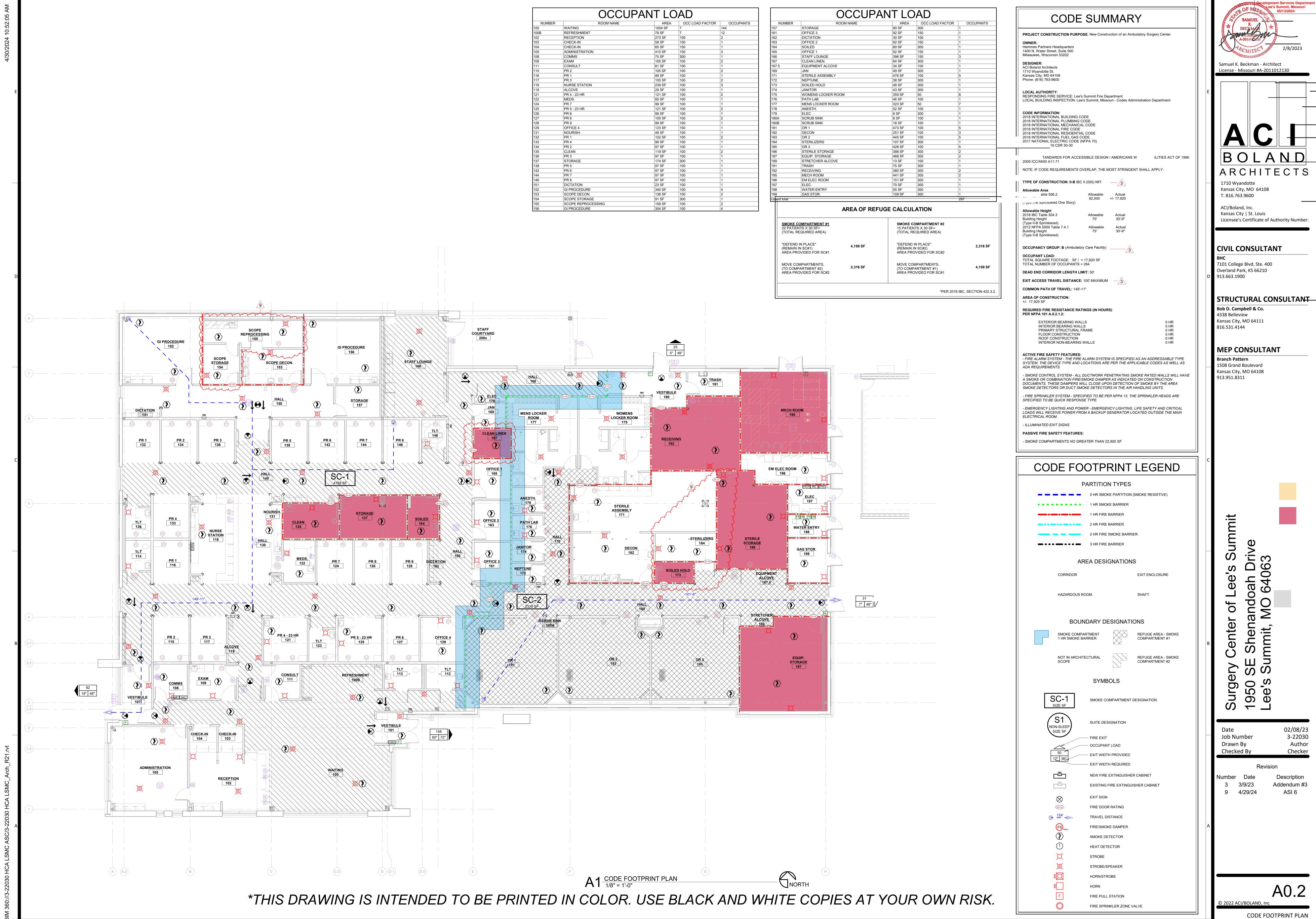
MEP CONSULTANT

Kansas City, MO 64108

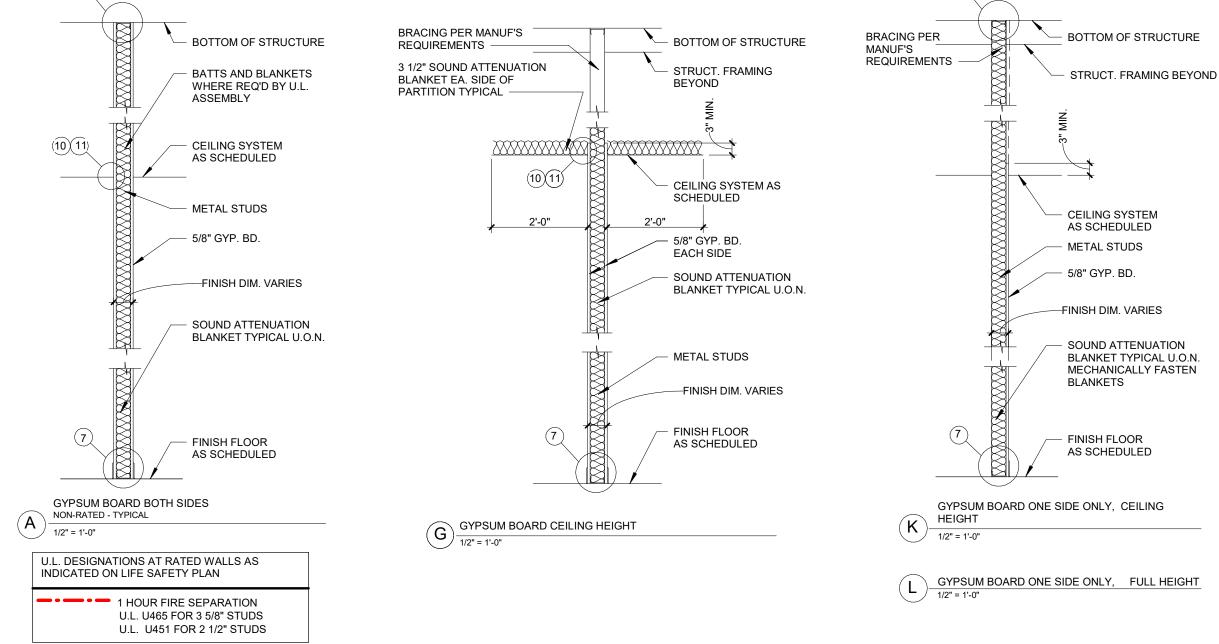
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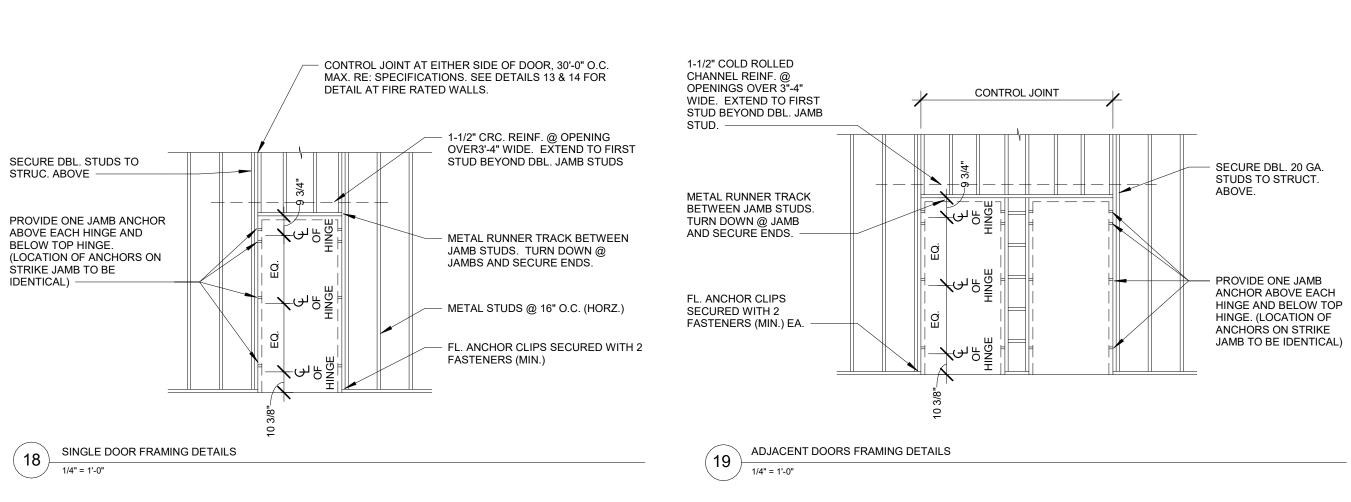
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Addendum #1



CONSTRUCTION





PARTITION GENERAL NOTES

UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3 5/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3-5/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD) 2. WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE METAL STUD THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX MTL. STUD THICKNESS 1-5/8" MTL. STUDS 2-1/2" MTL. STUDS 6" MTL. STUDS

3. UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.

4. UNLESS NOTED OTHERWISE, ALL CMU PARTITIONS ARE 7-5/8", 8" NOMINAL. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF CMU PARTITIONS OTHER THAN 8" NOMINAL.

5. WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE CMU THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX CMU THICKNESS ACTUAL 3-5/8", 4" NOMINAL ACTUAL 5-5/8", 6" NOMINAL ACTUAL 11-5/8", 12" NOMINAL

6. UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.

7. ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE. 8. METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.

9. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE". 10. THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.

11. THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES. 12. PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.

13. PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.

14. AT PARTITION TYPES WHERE MTL. STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL. RUNNER TRACK.

MEP CONSULTANT **Branch Pattern** 

CONSTRUCTION

Samuel K. Beckman - Architect License - Missouri #A-2011012130

1710 Wyandotte

T: 816.763.9600

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Kansas City, MO 64108

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1508 Grand Boulevard Kansas City, MO 64108 913.951.8311

> Summit Lee's of Center 1950 SE Shena ee's Summit, I urgery

Job Number Drawn By Checked By

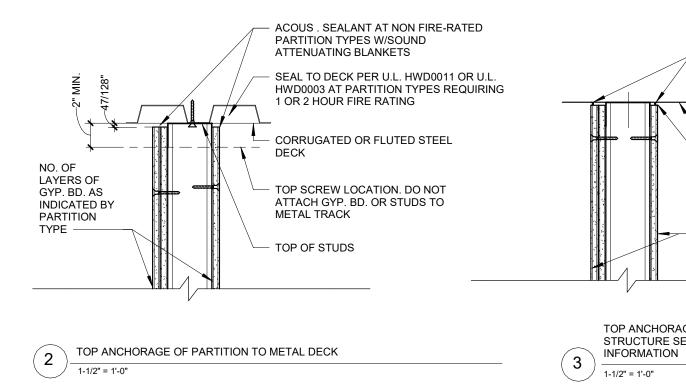
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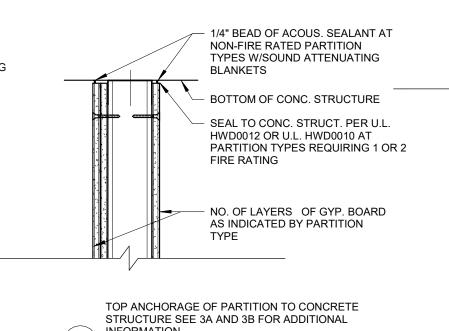
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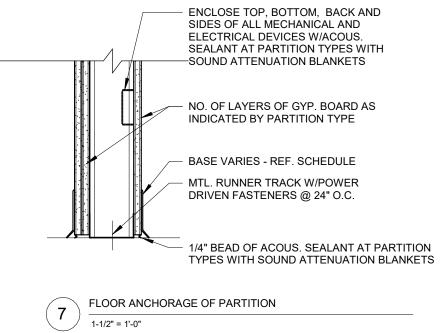
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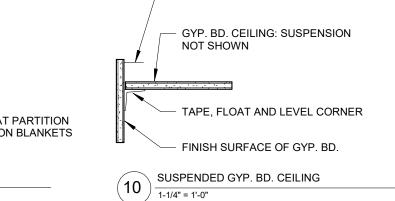
- WALL MOLDING ANCHOR TO PARTITION - ACOUSTICAL CEILING: SUSPENSION NOT SHOWN FINISH SURFACE OF GYP. BD.

CEILING DETAILS FOR GYP. BD. VERTICAL









- ANCHOR 1 5/8" MTL. RUNNER

TRACK TO PARTITION

SURFACES

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

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PARTITION TYPES AND DETAILS

### Design No. U465 BXUV.U465 Fire-resistance Ratings - ANSI/UL 263

Page Bottom

• Authorities Having Jurisdiction should be consulted before construction.

Design/System/Construction/Assembly Usage Disclaimer Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL fied products, equipment, system, devices, and materials

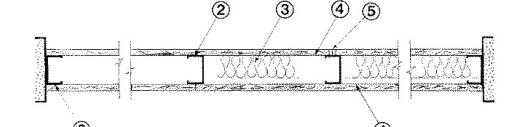
 Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
 When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate Only products which bear UL's Mark are considered Certified.

### **BXUV - Fire Resistance Ratings - ANSI/UL 263**

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire-resistance Ratings - ANSI/UL 263 See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U465 August 25, 2016

Nonbearing Wall Rating — 1 HR. \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (sucl as Canada), respectively



1. Floor and Ceiling Runners — (Not Shown) — Channel shaped runners, 3-5/8 in, deep (min), 1-1/4 in, legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. 1A. Framing Members\* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - Channel shaped, ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System

 ${f QUAIL\ RUN\ BUILDING\ MATERIALS\ INC}$  — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME Framing System

 ${f UNITED}$   ${f METAL}$   ${f PRODUCTS}$   ${f INC}$  — Type SUPREME Framing System

1B. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

CRACO MFG INC — SmartTrack20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1C. Floor and Ceiling Runners — (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1D. Framing Members\* - Floor and Ceiling Runners - Not Shown - In lieu of Items 1 through 1C - For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S Protrak

1E. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1E — For use with KIRII (HONG KONG) LTD - Type KIRII

1G. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

1I. **Framing Members\* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2H, channel shaped runners, 1-1/4 in, wide by min 3-5/8 in, deep fabricated from min 0.020 in, thick galy steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **TELLING INDUSTRIES L L C** — Viper $20^{\text{TM}}$  Track

2. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. 2A. **Framing Members\* — Steel Studs —** As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC - Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System

 ${f QUAIL\ RUN\ BUILDING\ MATERIALS\ INC}-{f Type\ SUPREME\ Framing\ System}$ 

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

 ${f UNITED}$   ${f METAL}$   ${f PRODUCTS}$   ${f INC}$  — Type SUPREME Framing System

2B. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel 1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CRACO MFG INC — SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2C. **Steel Studs** — (As an alternate to Item 2, For use with Item 4E) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 2D. Framing Members\* - Steel Studs - As an alternate to Items 2 through 2C - For use with Item 1D and 4G only annel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

**CLARKDIETRICH BUILDING SYSTEMS** — CD ProSTUD DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

 ${f RAM}$   ${f SALES}$   ${f L}$   ${f C}$  —  ${f Ram}$   ${f ProSTUD}$ 

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

TELLING INDUSTRIES L L C — TRUE-STUD™

2E. **Framing Members\* — Steel Studs —** As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

2F. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. KIRII (HONG KONG) LTD - Type KIRII

2G. Framing Members\* - Steel Studs - Not Shown - In lieu of Item 2 through 2F - For use with Item 1G. ary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members\* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. **TELLING INDUSTRIES L L C** — Viper $20^{\text{TM}}$ 

2I. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than **EB MéTAL INC** — EB Stud

J. Framing Members\* - Steel Studs - In lieu of Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. OLMAR SUPPLY INC — PRIMESTUD

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.  $\textbf{MARINO/WARE, DIV OF WARE INDUSTRIES INC} - \mathsf{StudRite^{tM}}$ 

3. Batts and Blankets\* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. See **Batts and Blankets** (BZJZ) category for names of Classified companies. 3A. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft<sup>3</sup>. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions

3B. Fiber, Sprayed\* - As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. **NU-WOOL CO INC** — Cellulose Insulation

U S GREENFIBER L L C — INS735& INS745 for use with wet or dry application. INS765LD and INS770LD are to be used

 ${\tt 3C.} \ \textbf{Fiber, Sprayed*-A} \ \text{Sa an alternate to Batts and Blankets (Item 3)-Spray applied cellulose fiber. The fiber is } \\$ applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3 INTERNATIONAL CELLULOSE CORP - Celbar-RL

3D. Batts and Blankets\* — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit See Batts and Blankets (BZJZ) category for names of manufacturers.

3E, Batts and Blankets\* — For use with Item 4P, Placed in stud cavities, any min. 3-1/2 in, thick glass fiber insulation See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 4. **Gypsum Board\*** – 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Items 6 (resilient channels) or 6A, 6B or 6C (furring

channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. O $\!$ **ACADIA DRYWALL SUPPLIES LTD** — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing **AMERICAN GYPSUM CO** — Types AG-C, AGX-1, M-Glass

for dry application only

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO - Type DBX-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5,

CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type X-1, Type C, SilentFX, 5/8" Easi-Lite Type X

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX **GEORGIA-PACIFIC GYPSUM L L C** — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX,

Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-G, FSW-G, FSW, FSW-3, FSW-5, FSW-6,

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS

PANEL REY S A — Types GREX. PRC. PRC2. PRX. RHX. MDX. ETX

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH Line MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X, Type C

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX

UNITED STATES GYPSUM CO - Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and

4A. **Gypsum Board\*** — (As alternate to Item 4) — Nom 5/8 in, thick gypsum panels with beyeled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in, OC along vertical and bottom edges and 12 in, OC in the field when panels are

applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally

**CERTAINTEED GYPSUM INC** — Type X, Type X-1, Type C, Type EGRG/ GlasRoc

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5,

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C - Types LGFC2A, LGFC6A, LGFC-V/A, LGFC-WD **GEORGIA-PACIFIC GYPSUM L L C** - Types DAP, DAPC, DGG, DS

**SAINT-GOBAIN GYPROC MIDDLE EAST FZE** — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine M2TECH ACTIV'Air, Gyproc DuraLine M3TECH ACTIV'Air, Gyproc DuraLine M3TECH ACTIV'Air, Gyproc DuraLine M3TECH ACTIV'Air

**THAI GYPSUM PRODUCTS PCL** — Type X, Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and

4B. Gypsum Board\* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item **CGC INC** — Types AR, IP-AR

 $\mathbf{UNITED\ STATES\ GYPSUM\ CO}-\mathsf{Types\ AR,\ IP-AR}$ 

**USG MEXICO S A DE C V** — Types AR, IP-AR

4C. **Gypsum Board\*** — As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing. **GEORGIA-PACIFIC GYPSUM L L C** — Type DGG, GreenGlass Type X

4D. **Gypsum Board\*** — As an alternate to Items 4, 4A, 4B, and 4C — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 8 in. OC along vertical edges and 12 in. OC in the field when panels are applied vertically. When gypsum panels applied horizontally, fasten to raming with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8,

4E. **Gypsum Board\*** — (As an alternate to Items 4 through 4D) — Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in, OC. Not to be used with item 6. **NATIONAL GYPSUM CO** — SoundBreak XP Type X Gypsum Board

4F. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board\*** — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO - Type SCX

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SCX

4H. Gypsum Board\* — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type QuietRock ES

4I. **Gypsum Board\*** — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the UNITED STATES GYPSUM CO — Type SCX

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SCX

4]. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A) MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. Gypsum Board\* - (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.

UNITED STATES GYPSUM CO - Type ULX

USG MEXICO S A DE C V - Type ULX

4L. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of direct attachment only to steel studs Item 2C). Nom 5/8 in, thick lead backed gypsum panels with beve square or tact attachment only to steel studis item 25). Norm 3/8 in thick lead backed gypsum panels with beveley, square or tacted edges, applied vertically. Vertical joints centered over studis and staggered min 1 stud cavity on opposite sides of studis. Wallboard secured to studis with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed psum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 8 ft long with a max ickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. lon-pe S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3, in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board\*** – (For use with Item 8) – 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board tem 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. T Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fibe Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. AMERICAN GYPSUM CO — Type AG-C

**CERTAINTEED GYPSUM INC** — Type FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

**GEORGIA-PACIFIC GYPSUM L L C** — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine M2TECH, Gyproc Dura

THAI GYPSUM PRODUCTS PCL — Type C

**UNITED STATES GYPSUM CO** — Types C, IP-X2, IPC-AR

**USG BORAL ZAWAWI DRYWALL L L C SFZ** — Type C

panels, applied vertically and secured as described in Item 4

**USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR 4N. Wall and Partition Facings and Accessories\* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

40. Gypsum Board\* — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom, 5/16 in, thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall. NATIONAL GYPSUM CO — Type FSW

4P. **Gypsum Board\*** — As an alternate to Item 4. For use with Item 3E, **Batts and Blankets\*** — 5/8 in. thick, 4 ft wide attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A, 6B or 6C (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC. UNITED STATES GYPSUM CO - Types ULIX

5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in, wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in, thick psum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced, Paper tape nd joint compound may be omitted when gypsum boards are supplied with square edges. 6. **Resilient Channel** — (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J. 6A. **Steel Framing Members\*** — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Member

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be verlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. b. Framing Members\* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring

6B. **Framing Members\*** — (Not Shown) — (Optional on one or both sides) — As an alternate to Item 6, furring channel and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced nax. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. b. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8  $\times$  1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into **PLITEQ INC** — Type Genie Clip

6C. **Steel Framing Members\*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and

PAC INTERNATIONAL L C — Types RSIC-1, RSIC-1 (2.75)

4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to study with RESILMOUNT Sound Isolation Clips - Type 237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards a side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint b. Steel Framing Members\* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 24 in. OC., and secured to studs with No.  $10 \times 2$ -1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237R

. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required. **HOMASOTE CO** — Homasote Type 440-32

9. Lead Batten Strips — (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in, wide, max 10 ft long stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips quired behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required 9A. **Lead Batten Strips** — (Not Shown, for use with Item 41) — Lead batten strips, 2 in. wide, max 10 ft long with a mathickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal cification OO-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations. 10. **Lead Discs or Tabs** — (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered

over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) rneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C" 10A. **Lead Discs** — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs Specification QQ-L-201f, Grades "B, C or D".

11. **Adhesive** — Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8). 12. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — For use with Items 1 to 1I, Items 2 to 22, Item 3, Items 4 to 41, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 41), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3. On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 41 with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Boar MSL — RefleXor membrane, SONOpan panel

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

XHBN.BW-S-0003 - Joint Systems

ONLINE CERTIFICATIONS DIRECTORY

Design/System/Construction/Assembly Usage Disclaimer

System No. BW-S-0003

XHBN.BW-S-0003

Joint Systems

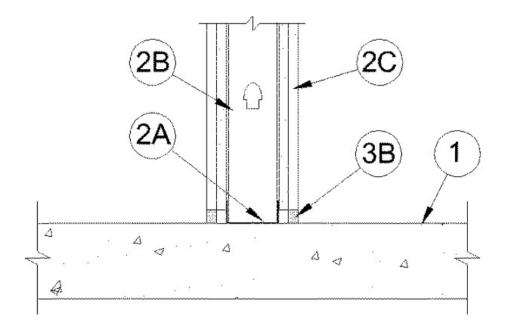
· Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials. Authorities Having Jurisdiction should be consulted before construction.
 Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the fiel When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems

See General Information for Joint Systems

System No. BW-S-0003 November 18, 2008

Assembly Ratings — 1 and 2 Hr (See Item 2) L Rating At Ambient — Less Than 1 CFM/Lin Ft (See Item 3B) L Rating At 400°F — Less Than 1 CFM/Lin Ft (See Item 3B) Joint Width - 3/4 In. Max



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1. Floor Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units\*.** See Precast Concrete Units category in the Fire Resistance Directory for names of

2. Wall Assembly — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features: A. **Steel Floor Runner** — Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC. B. Studs — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC. C. **Gypsum Board\*** — Gypsum board installed to a min total thickness of 5/8 in. (16 mm) or -1/4 in. (32 mm) on each side of wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 3/4 in. (19 mm) gap shall be maintained between the bottom of the gypsum board and the top of the concrete floor.

3. Joint System — Max separation between top of floor and bottom of gypsum board is 3/4 in. (19 mm). The joint system consists of a packing material and a fill material, as follows A. Packing Material — (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber insulation firmly packed into the gap between the bottom of the gypsum board and the top of the concrete floor and recessed from each surface of the wall to accommodate the required thickness of fill material. B. Fill, Void or Cavity Material\*-Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall. When mineral wool batt insulation is used as a packing material, min thickness of fill material on each side of the wall is 1/4 in. (6 mm).

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

Note: L Ratings apply when SpecSeal ES Sealant is used.

LC150 Sealant, Pensil 300 Sealant or SpecSeal Series SIL300.

Last Updated on 2008-11-18

Ouestions?

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Print this page Terms of Use Page Top

SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant, SpecSeal LCI Sealant, SpecSeal

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XHBN.HW-D-0044 Joint Systems

Design/System/Construction/Assembly Usage Disclaimer Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials Authorities Having Jurisdiction should be consulted before construction.

Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate

> XHBN - Joint Systems **XHBN7 - Joint Systems Certified for Canada**

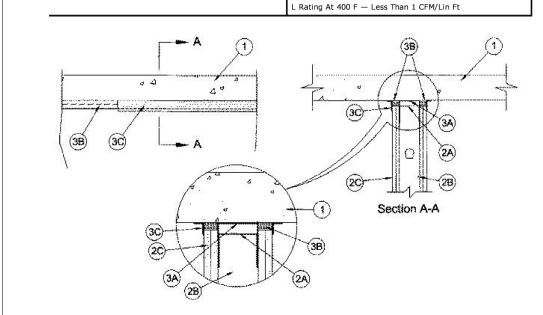
> > System No. HW-D-0044

e General Information for Joint Systems e General Information for Joint Systems Certified for Canada

Only products which bear UL's Mark are considered Certified.

December 08, 2015 ANSI/UL2079 CAN/ULC S115 Assembly Ratings -1, 2, 3 and 4 Hr (See Item 2) Jominal Joint Widths — 1-1/2 and 2-1/2 In. (See Item 3) FT Ratings — 1, 2, 3, and 4 Hr (See Item 2) Class II Movement Capabilities - 40 or 50% Compression or Extension (See Item 3) FH Ratings - 1, 2, 3, and 4 Hr (See Item 2) FTH Ratings -1, 2, 3, and 4 Hr (See Item 2) Rating At Ambient — Less Than 1 CFM/Lin Ft Rating At 400 F — Less Than 1 CFM/Lin Ft lominal Joint Widths -1-1/2 and 2-1/2 In. (See Item 3)

L Rating At Ambient — Less Than 1 CFM/Lin Ft



1. Floor Assembly — Min 4-1/2 in. (114 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) structural concrete. 2. Wall Assembly - 1. 2. 3 or 4 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire

Resistance Directory and shall include the following construction features: A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When deflection channel (Item 3A) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a 3/4 to 1 in. (19 to 25 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 3/4 in. (19 mm) greater than nom joint width. Ceiling runner is slab with steel masonry anchors spaced max 24 in. (610 mm) OC. A1. Light Gauge Framing\* - Slotted Ceiling Runner — When nom joint width is less than or equal to 1-3/4 in. (45 mm), slotted ceiling runner may be used as an alternate to the ceiling runner in Item 2A. Slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

TELLING INDUSTRIES L L C — True-Action Deflection Track

METAL-LITE INC — The System

SCAFCO STEEL STUD MANUFACTURING CO

THE STEEL NETWORK INC — VertiTrack VT series, 250VT, 362VT, 400VT, 600VT and 800VT A2. Light Gauge Framing\* - Vertical Deflection Ceiling Runner — When nom joint width is less than or equal to 1 in. (25 mm), vertical deflection ceiling runner may be used as an alternate to the ceiling runner in Items 3A and 3A1., Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical

**THE STEEL NETWORK INC** — VertiTrack VTD362, VTD400, VTD600 and VTD800

deflection ceiling runner secured to concrete floor slab with steel masonry anchors spaced max

4 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item

A3. **Light Gauge Framing\*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used. OLMAR SUPPLY INC — Type SCR

A4. Light Gauge Framing\* —Vertical Deflection Clip\* — (Optional) Steel clips can be used n conjunction with steel studs (Item 2B), ceiling runner (Item 2A) or deflection channel (Item 3A). Clips installed over the top of studs and inserted within the ceiling runner or deflection channel. Clip shall be secured to the ceiling runner or deflection channel with No. 8 self drilling, self tapping steel fasteners through holes provided within the clip. Clip may be secured to the stud with No. 6 pan head steel screw through holes provided within the clip. As an alternate, the legs of the clip may be installed over the top of the stud without attachment in accordance with manufacturer's installation instructions. **FLEX-ABILITY CONCEPTS L L C** — Three Legged Dog Deflection Clip

floor assembly using min 3/16 in. (5 mm) diam by 2-1/2 in. (64 mm) long steel masonry PAC INTERNATIONAL L L C — Type RSIC-U-HD

deflection channel is not used, studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at mid-height of each slot. Stud spacing not to exceed 24 in. (610 mm) OC. C. **Gypsum Board\*** — Gypsum board sheets installed to a min total 5/8 in., 1-1/4 in., 1-1/2 in. or 2 in. (16, 32, 38 or 51 mm) thickness on each side of wall for 1, 2, 3 or 4 hr rated assemblies, respectively. Wall to be constructed as specified in the individual U400, V400 or W400 Series Design in the UL Fire Resistance Directory, except that a max 1 or 2-1/2 in. (25 or 64 mm) gap (See Item 3) shall be maintained between the top of the gypsum board and the

ower surface of the floor. The screws attaching the gypsum board to the studs along the top of

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall. . Joint System  $oldsymbol{-}$  Max separation between bottom of floor and top of gypsum board (at time of installation of joint system) is 2-1/2 in. (64 mm) for 1 and 2 hr ratings and 1 in. (25 mm) for 3 and 4 hr ratings. The joint system is designed to accommodate a max 50 percent compression or extension from its installed width for max 1-1/2 in. (38 mm) wide joints and a max 40 percent compression or extension from its installed width for max 2-1/2 in. (64 mm) wide joints. The joint system shall consist of forming and fill materials, with or without a deflection channel (Item 3A), as follows:

ROCK WOOL MANUFACTURING CO — Delta Board

ROXUL INC — Safe

ROCKWOOL MALAYSIA SDN BHD — Safe

THERMAFIBER INC — SAF C. Fill, Void or Cavity Material\* - Sealant - Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material spray applied on each side of the wall between the top of the wall and the bottom of the floor, and overlap a min 1/2 in. (13 mm) onto gypsum board on both sides of wall. Additional 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet

thickness) of fill material shall overlap a min 1/2 in. (13 mm) onto the floor on both sides of

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

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A5. Steel Framing Members\* — Sound Isolation Clips — (Not Shown, For Max 2 Hr Rating) - As an alternate attachment means for the ceiling runner to the underside of the floor when no deflection channel (Item 3A) is used, sound isolation clips installed in accordance with the diam hole in ceiling runner and attached to top of ceiling runner using four min No. 8 by 1/2 in.

B. **Studs** — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 1 in. (13 to 25 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner (Item 2A) with sheet metal screws located 1/2 in. (13 mm) below the bottom to the deflection channel. When

the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner or into the optional deflection

A. **Deflection Channel** — (Optional) - Max 3 in. (76 mm) deep min 24 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1/2 to 3/4 in. (13 to 19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner nests inside the deflection channel without attachment compressed 50 percent in thickness and installed cut edge first to completely fill the gap between the top of the gypsum board and the bottom of the concrete floor. When sound isolation clips (Item 2A6) are used, the space between the top of the ceiling runner and the underside of the floor shall be tightly packed with mineral wool batt insulation. The forming material shall be installed flush with both surfaces of wall. INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray Last Updated on 2015-12-08

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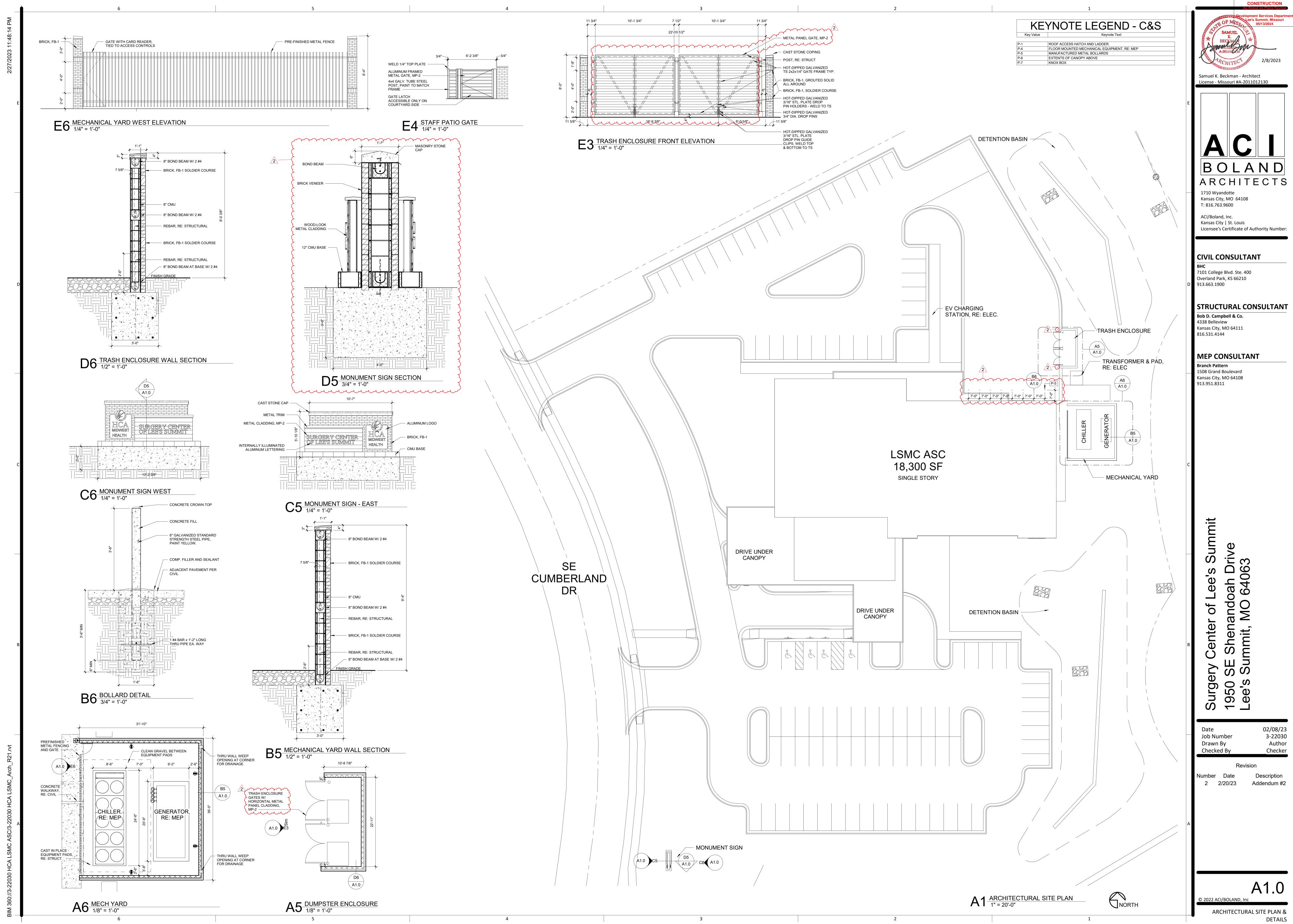
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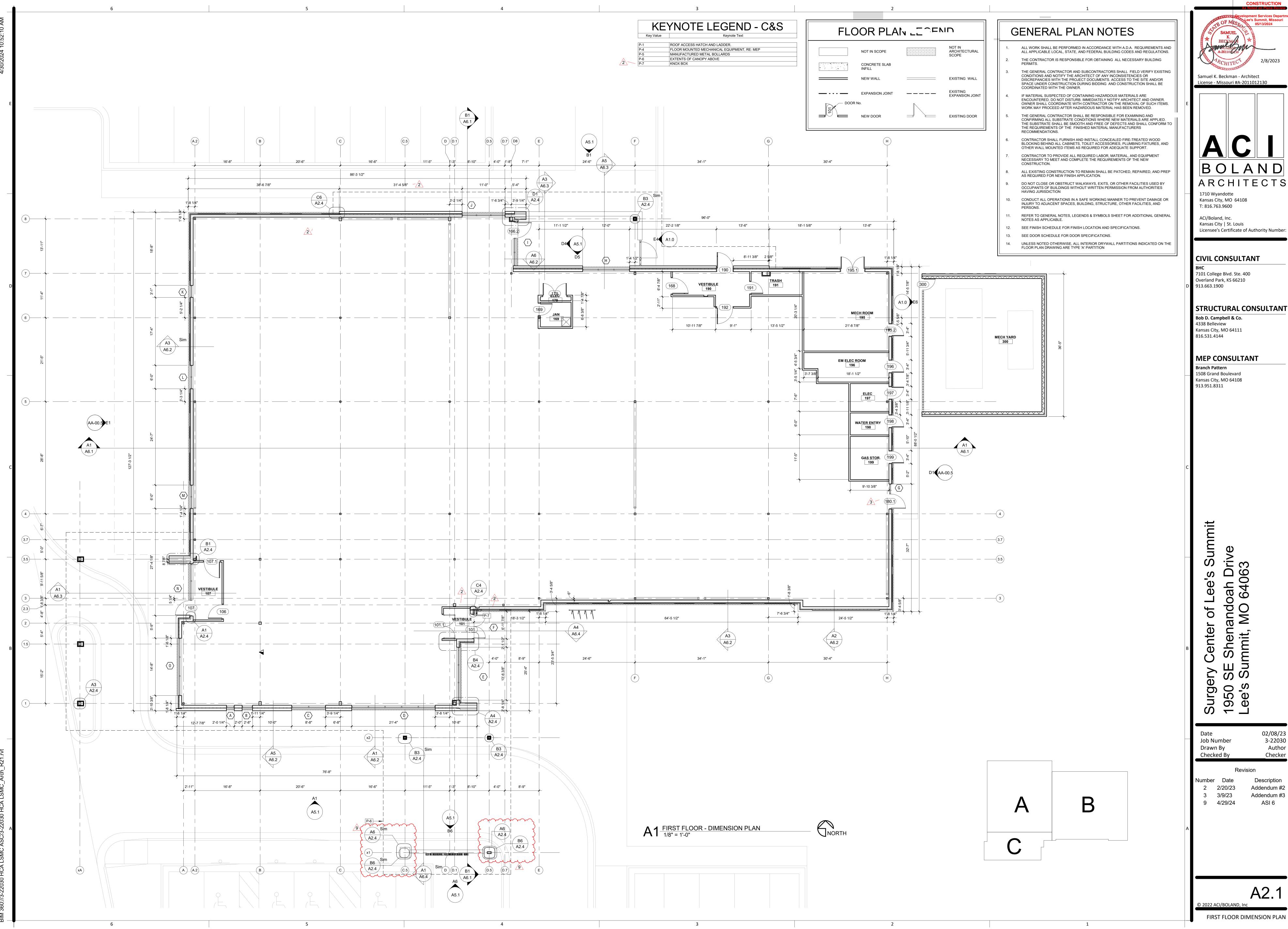
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GENERAL NOTES, LEGENDS &





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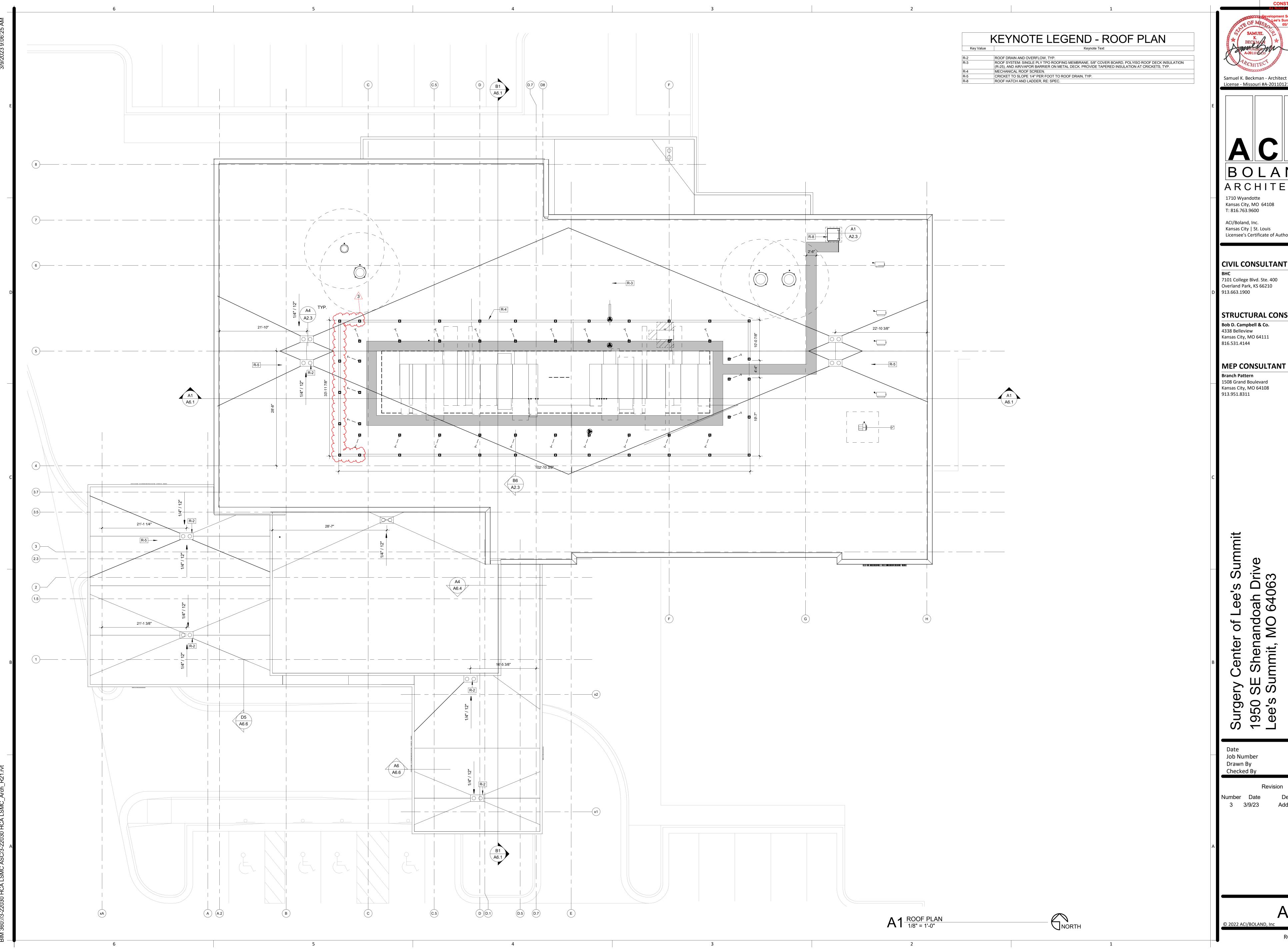
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Addendum #2 Addendum #3 ASI 6

FIRST FLOOR DIMENSION PLAN



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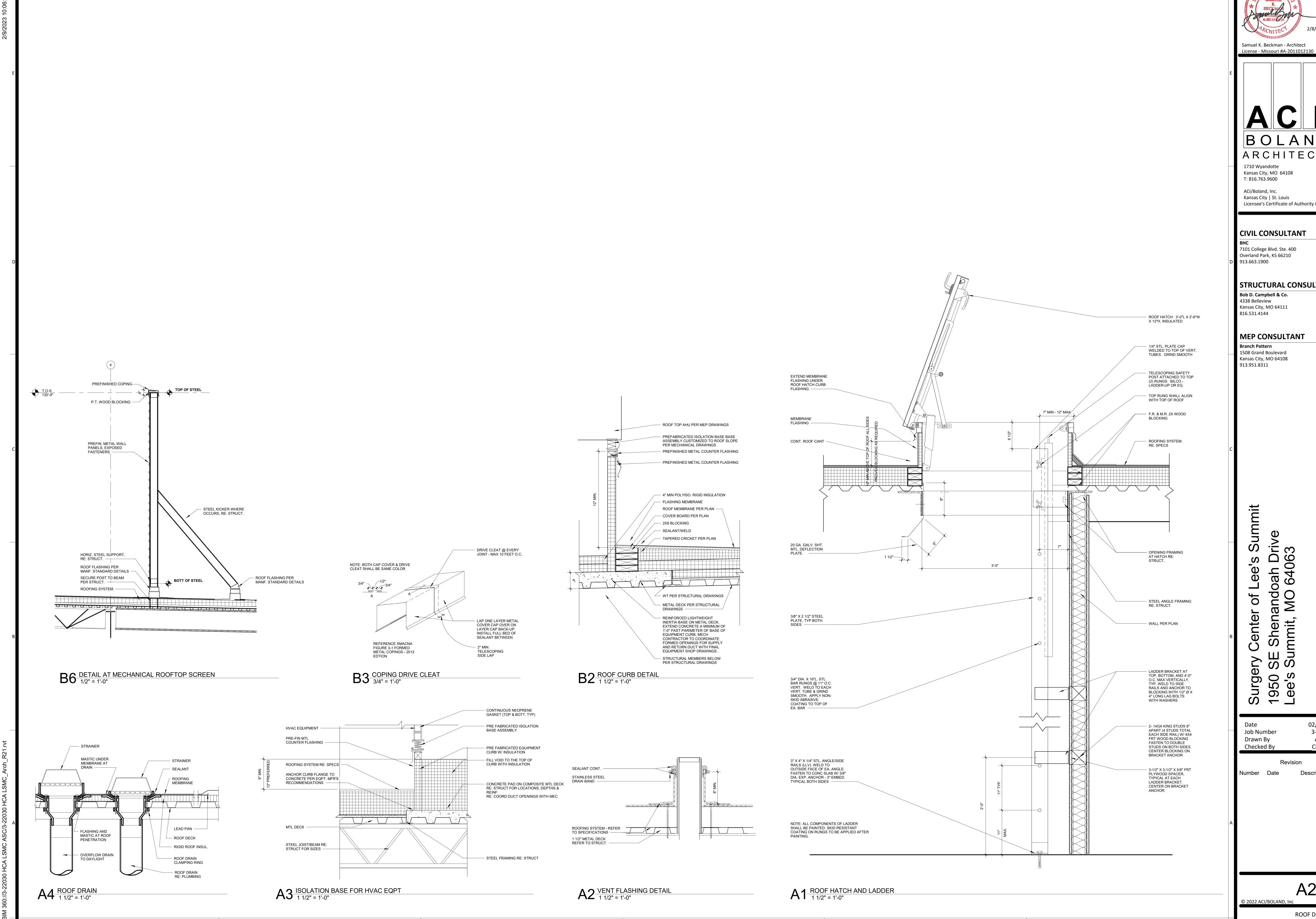
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Description Addendum #3

A2.2

ROOF PLAN



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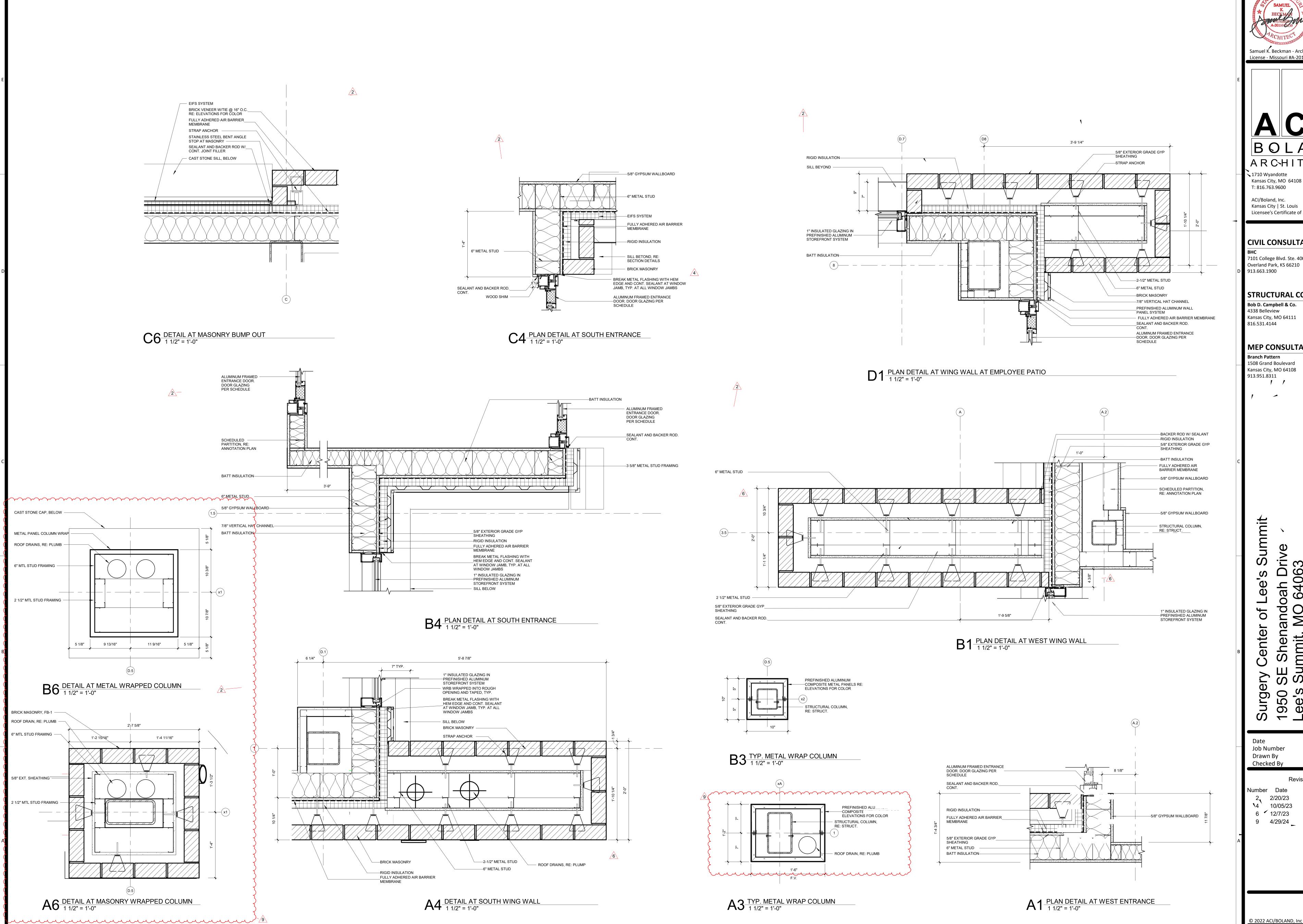
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ROOF DETAILS



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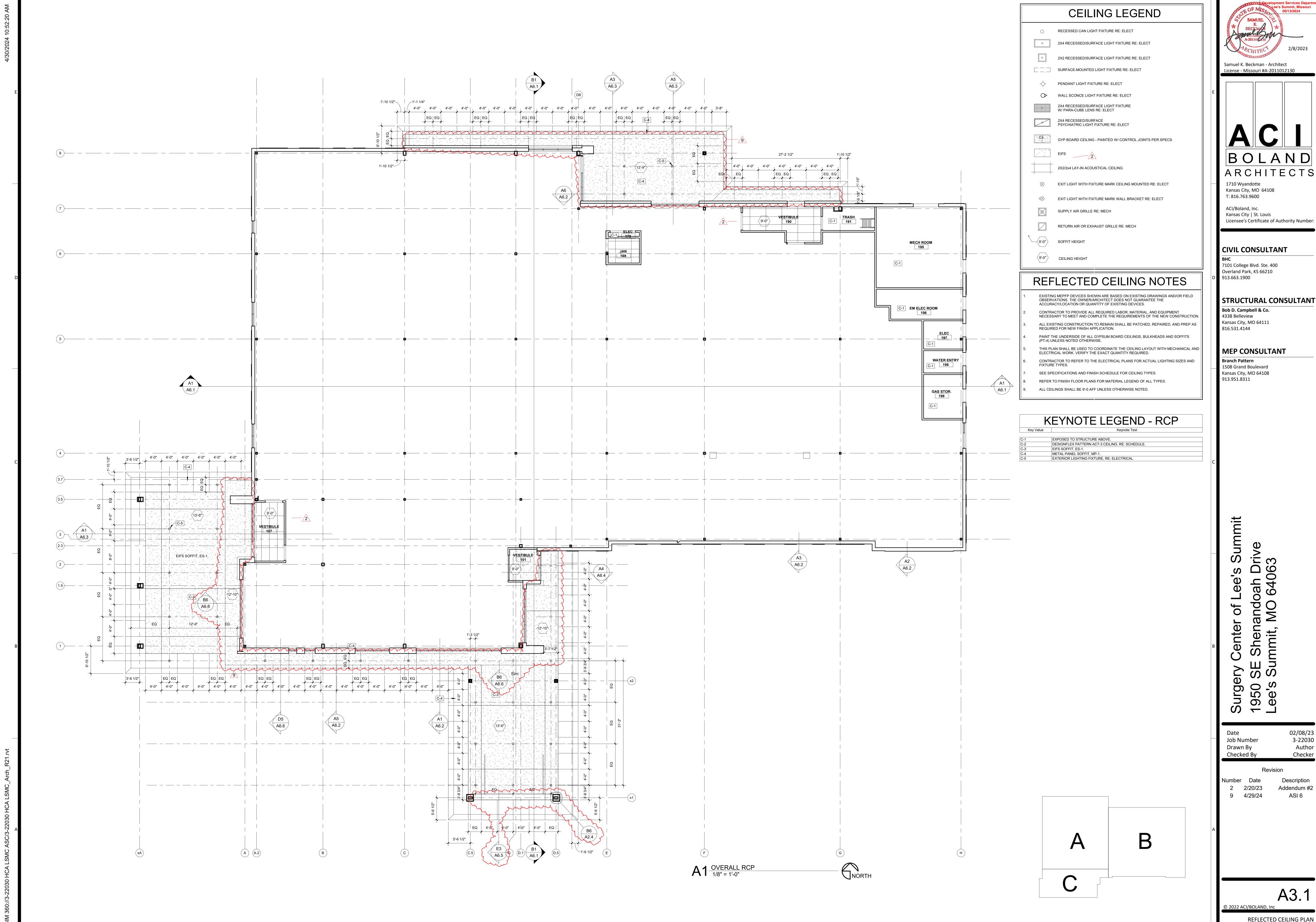
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PLAN DETAILS



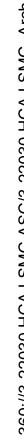
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REFLECTED CEILING PLAN



STOREFRONT SYSTEM ——6" METAL STUD FULLY ADHERED AIR BARRIER 5/8" EXTERIOR GRADE GYP SHEATHING RIGID INSULATION \_BRICK VENEER W/TIE @ 16" O.C. RE: ELEVATIONS FOR COLOR PREFINISHED SHEET METAL FLASHING TO MATCH MULLION/DOOR FRAME A5 PLAN DETAIL - TYP. STOREFRONT AT BRICK 1 1/2" = 1'-0"

B5 PLAN DETAIL - TYP. STOREFRONT AT EIFS 1 1/2" = 1'-0"

ALUMINUM FRAMED ENTRANCE DOOR. DOOR GLAZING PER SCHEDULE

1/2" COMPRESSIBLE

CONCRETE SLAB, RE STRUCTURAL

1/2" COMPRESSIBLE FILLER

CONCRETE FOUNDATION, RE: STRUCTURAL

SEALANT AND BACKER ROD.

PREFINISHED SHEET METAL FLASHING TO MATCH

MULLION/DOOR FRAME

SEALANT AND BACKER ROD. CONT.

1" INSULATED GLAZING IN

C5 TYP. EXTERIOR DOOR SILL 1/2" = 1'-0"

—6" METAL STUD

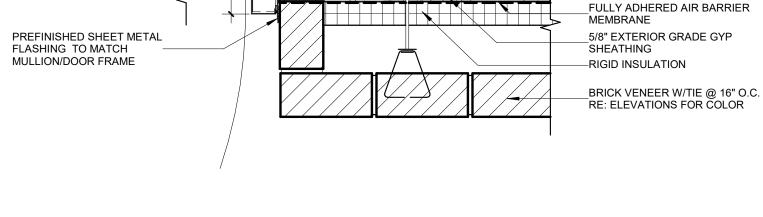
FULLY ADHERED AIR BARRIER

\_5/8" EXTERIOR GRADE GYP SHEATHING

-5/8" GYPSUM WALLBOARD

-RIGID INSULATION

SILL BEYOND



—6" METAL STUD

MEMBRANE

SHEATHING

- SILL BEYOND

—6" METAL STUD

**A4** TYP. DOOR JAMP AT BRICK 1 1/2" = 1'-0"

**B4** TYP. DOOR JAMP AT EIFS 1 1/2" = 1'-0"

HOLLOW MTL. FRAME

PREFINISHED SHEET METAL
FLASHING TO MATCH
MULLION/DOOR FRAME

W/ JAMB ANCHOR -

DOOR SCHEDULE - CS DOOR INFORMATION INFORMATION OPENING DETAIL NO. OF UNEQUAL CS; AUTO OPERATOR FGS ALUM F WD 01.1 WAITING ALUM CS; AUTO OPERATOR A5/TI-A4.1 A6/TI-A4.1 CS 106 VESTIBULE ALUM GL-1 3 --HM -- 3 FGN ALUM F WD CS; CARD READER & AUTO OPERATOR, AIPHONE 107 VESTIBULE A5/TI-A4.1 A6/TI-A4.1 CS; CARD READER & AUTO OPERATOR 107.1 VESTIBULE 166.2 STAFF LOUNGE CS; CARD READER 168 VESTIBULE CS; CARD READER A5/TI-A4.1 A6/TI-A4.1 169 JAN 73 SOILED HOLD A5/TI-A4.1 A6/TI-A4.1 79 HALL ALUM HM HM 180.1 HALL A3/TI-A4.1 A4/TI-A4.1 CS; CARD READER 190 VESTIBULE 191 TRASH 192 VESTIBULE A5/TI-A4.1 B6/TI-A4.1 CS;4x4 Plate, SST Edge Protection 45 min 0 195.1 MECH ROOM C3/TI-A4.1 C3/TI-A4.1 B4/TI-A4.1 195.2 MECH ROOM 3'-0" 7'-0" 1 3'-0" 7'-0" 1 3'-0" 7'-0" 1 3'-0" 7'-0" 1 3'-0" 7'-0" 1 196 EM ELEC ROOM C3/TI-A4.1 B4/TI-A4.1 197 ELEC C3/TI-A4.1 B4/TI-A4.1 198 WATER ENTRY C3/TI-A4.1 B4/TI-A4.1 199 GAS STOR. C3/TI-A4.1 B4/TI-A4.1 CS; GATE TO MECH YARD; CARD READER 300 MECH YARD

—3 5/8" METAL STUD FRAMING

—5/8" GYPSUM WALLBOARD

\_SEALANT AND BACKER ROD.

## DOOR AND HARDWARE NOTES

ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL TOOLS, A KEY, SPECIAL KNOWLEDGE OR EFFORT. DOUBLE KEYED DEAD BOLTS ARE PROHIBITED. ALL HARDWARE SHALL BE IN COMPLIANCE WITH ADA GUIDELINES AND NATIONAL BUILDERS HARDWARE ASSOCIATION STANDARDS. HARDWARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

DOOR & FRAME MAT'L LEGEND ALUM ALUMINUM **HOLLOW METAL** SOLID CORE WOOD FRP FIBER REINFORCED PANEL TEMPERED

GLAZING LEGEND	
GL-1	TEMPERED GLASS
GL-2	LAMINATED GLASS
GL-3	FIRE PROTECTION RATED GLASS
GL-4	FIRE RESISTANT RATED GLASS
GL-5	BUTT-GLAZED GLASS PANELS
IGU-1	DOUBLE-GLAZED INSULATING GLASS UNIT
IGU-2	DOUBE-GLAZED INSULATING GLASS UNIT (TEMPERED)
IGU-3	DOUBE-GLAZED INSULATING GLASS UNIT (LAMINATED)
IGU-4	DOUBE-GLAZED INSULATING GLASS UNIT (SPANDREL)

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SAMUEL

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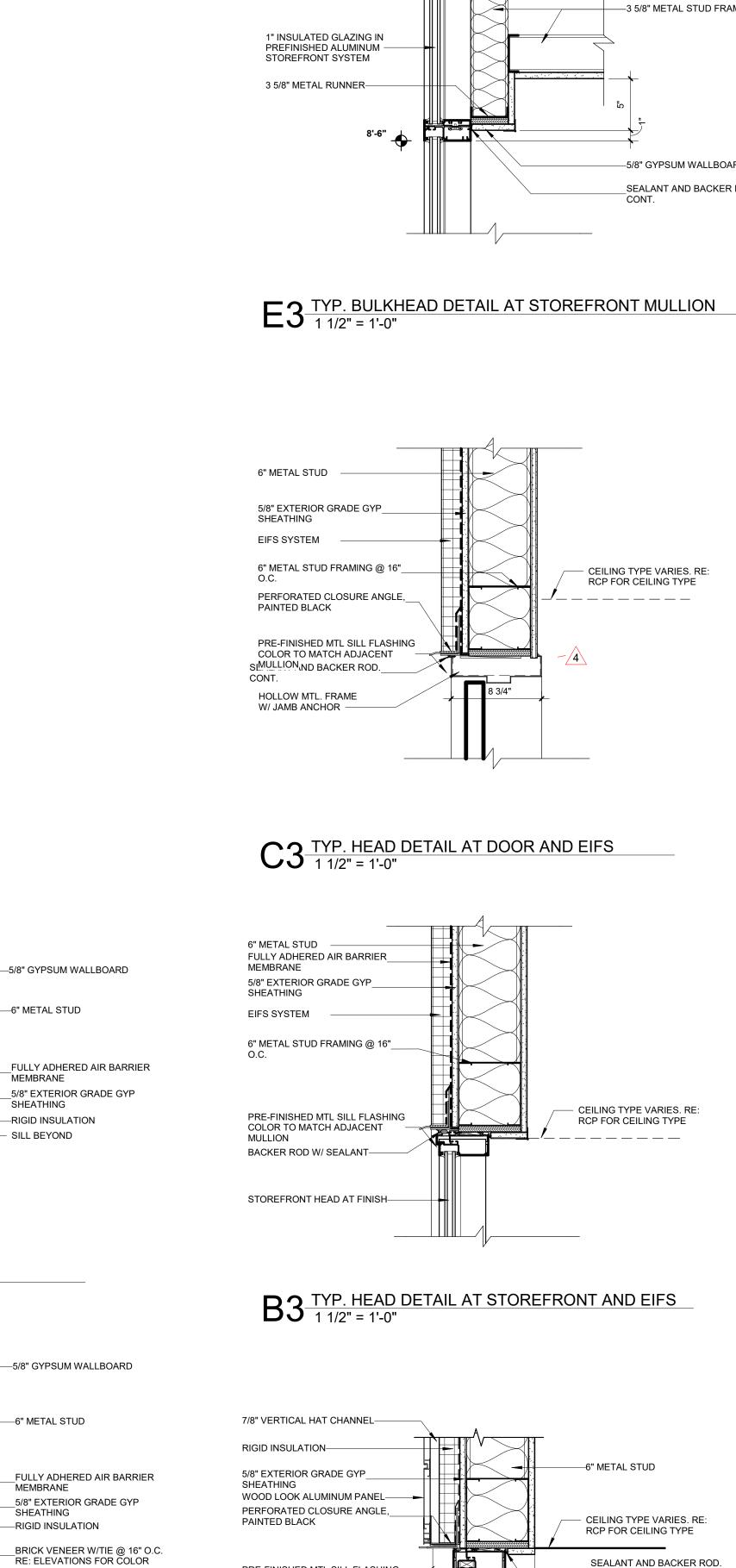
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DOOR AND FRAME SCHEDULE AND

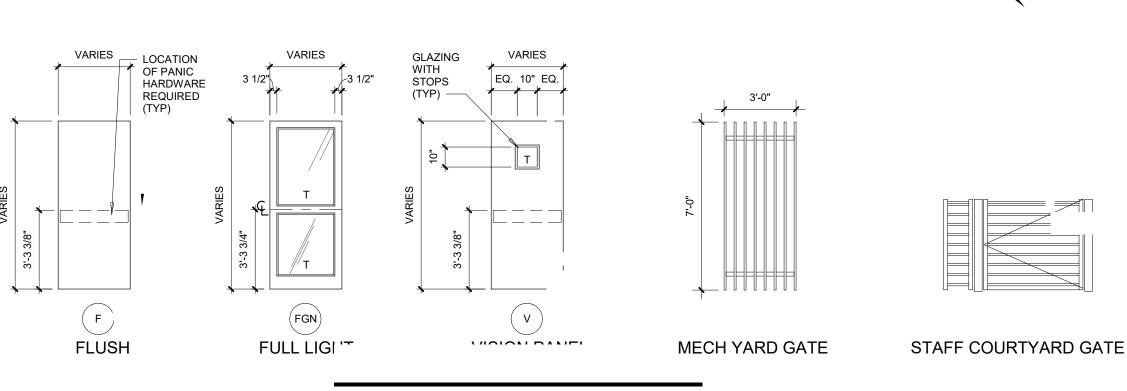


PRE-FINISHED MTL SILL FLASHING COLOR TO MATCH ADJACENT

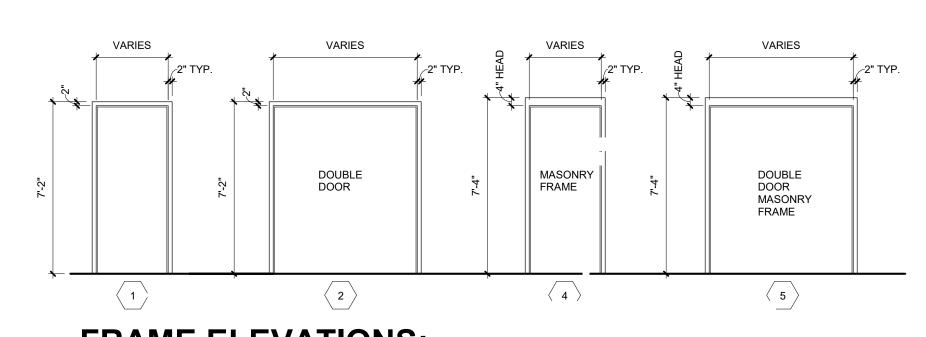
1" INSULATED GLAZING IN PREFINISHED ALUMINUM —

STOREFRONT SYSTEM

MULLION



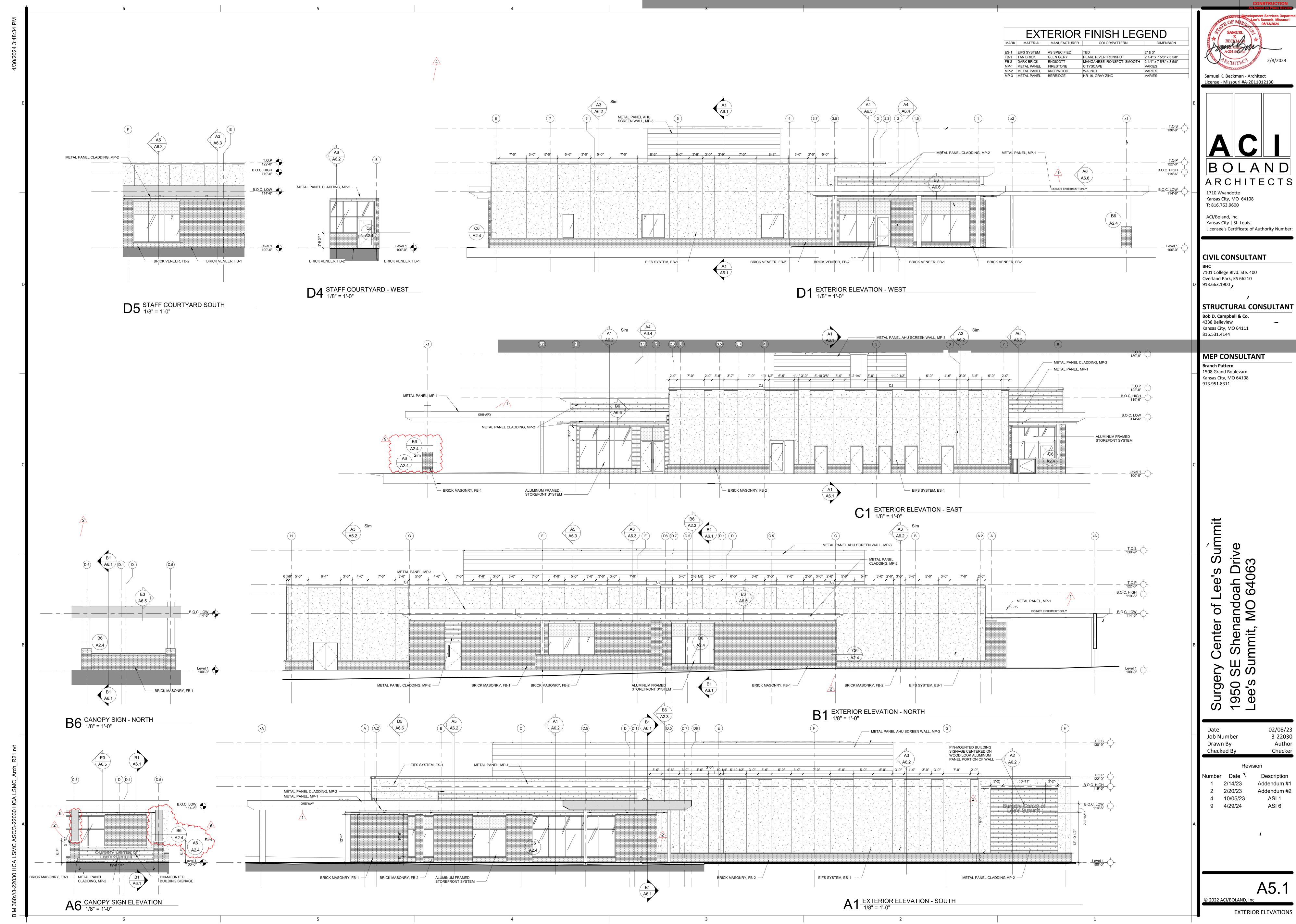
## **DOOR ELEVATIONS:**



TYP. HEAD DETAIL AT STOREFRONT AND WOOD A3 LOOK METAL PANEL
1 1/2" = 1'-0"

FRAME ELEVATIONS:

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GLAZING ELEVATIONS

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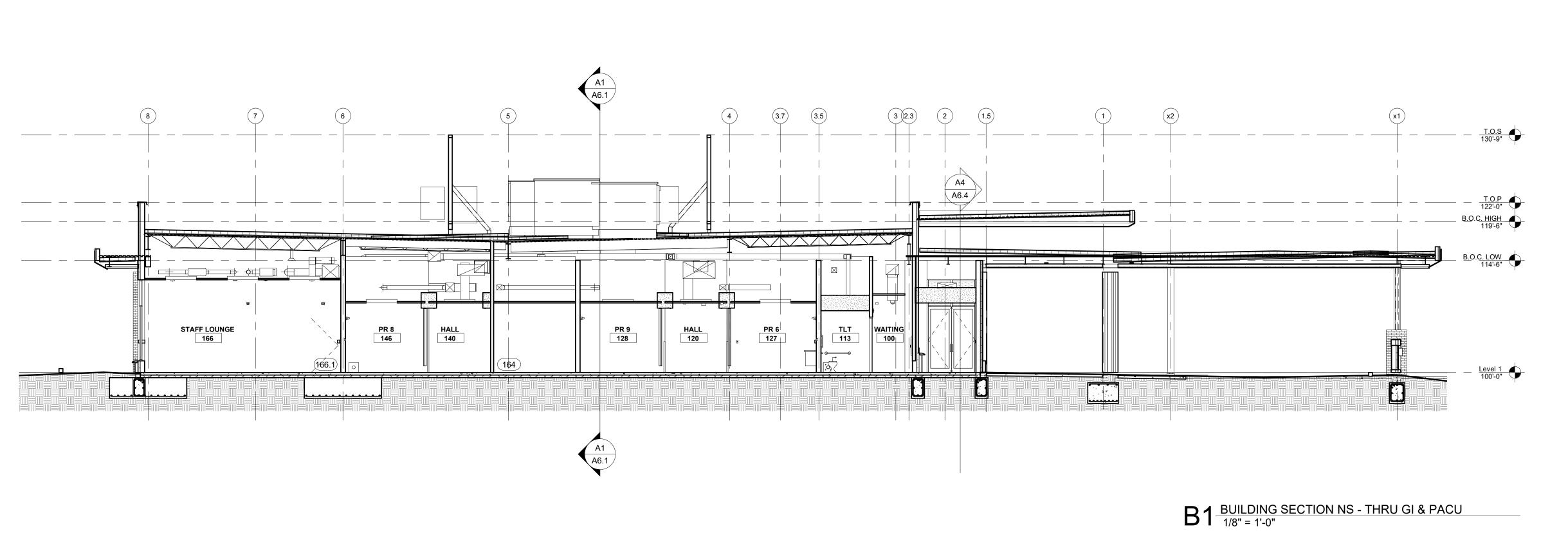
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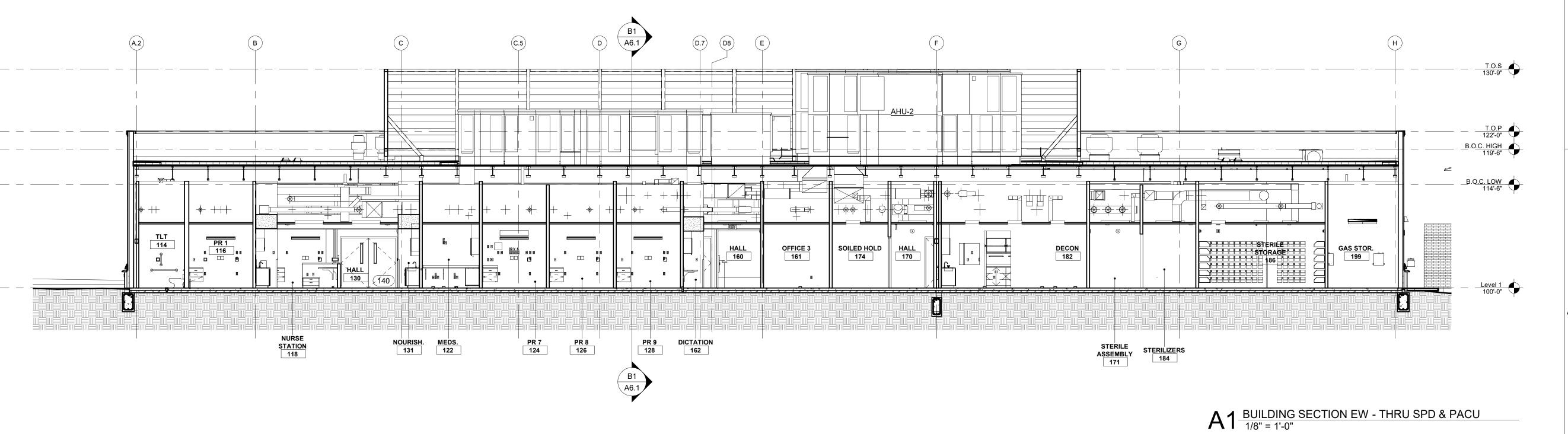
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WALL SECTIONS

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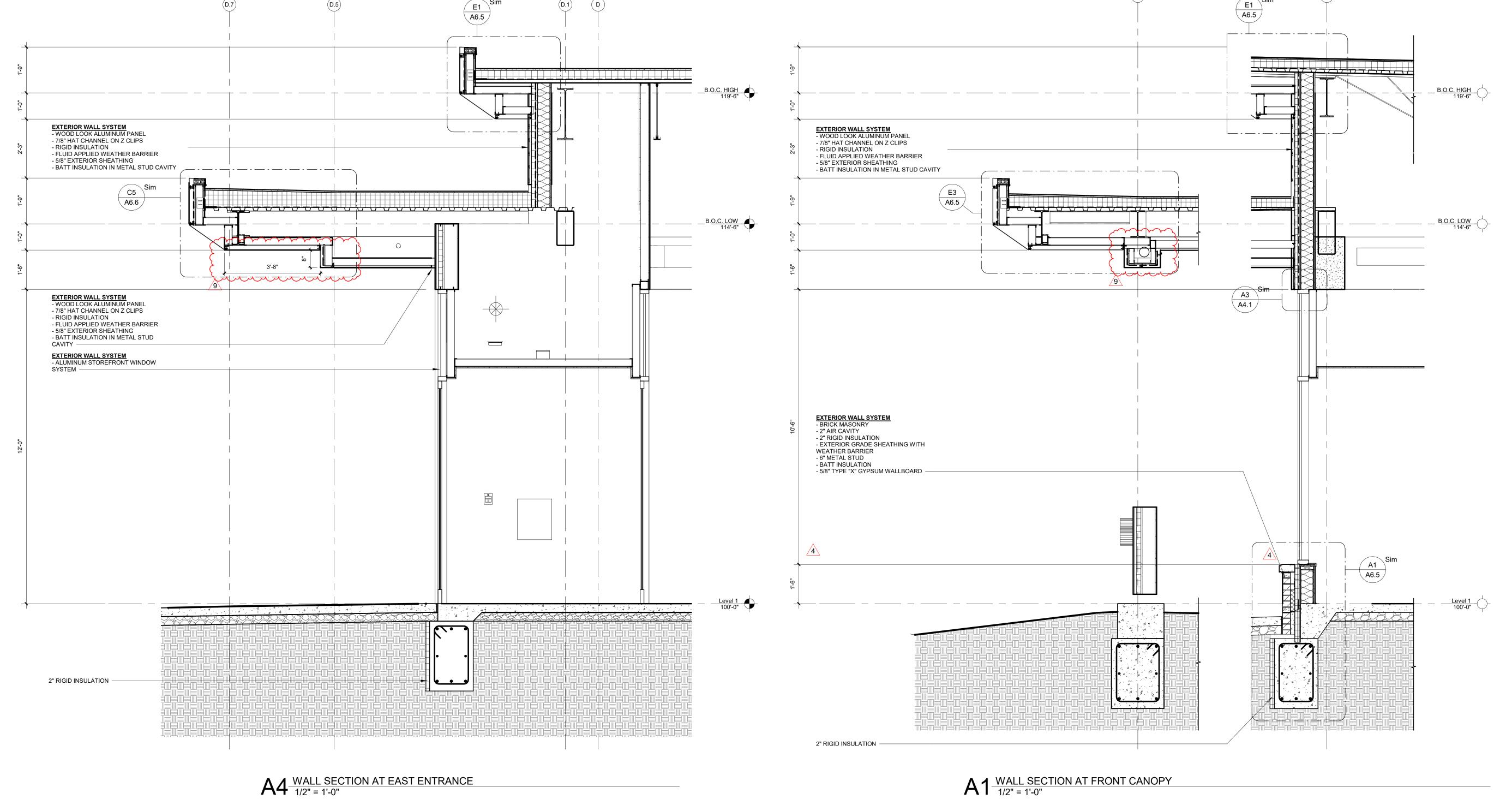
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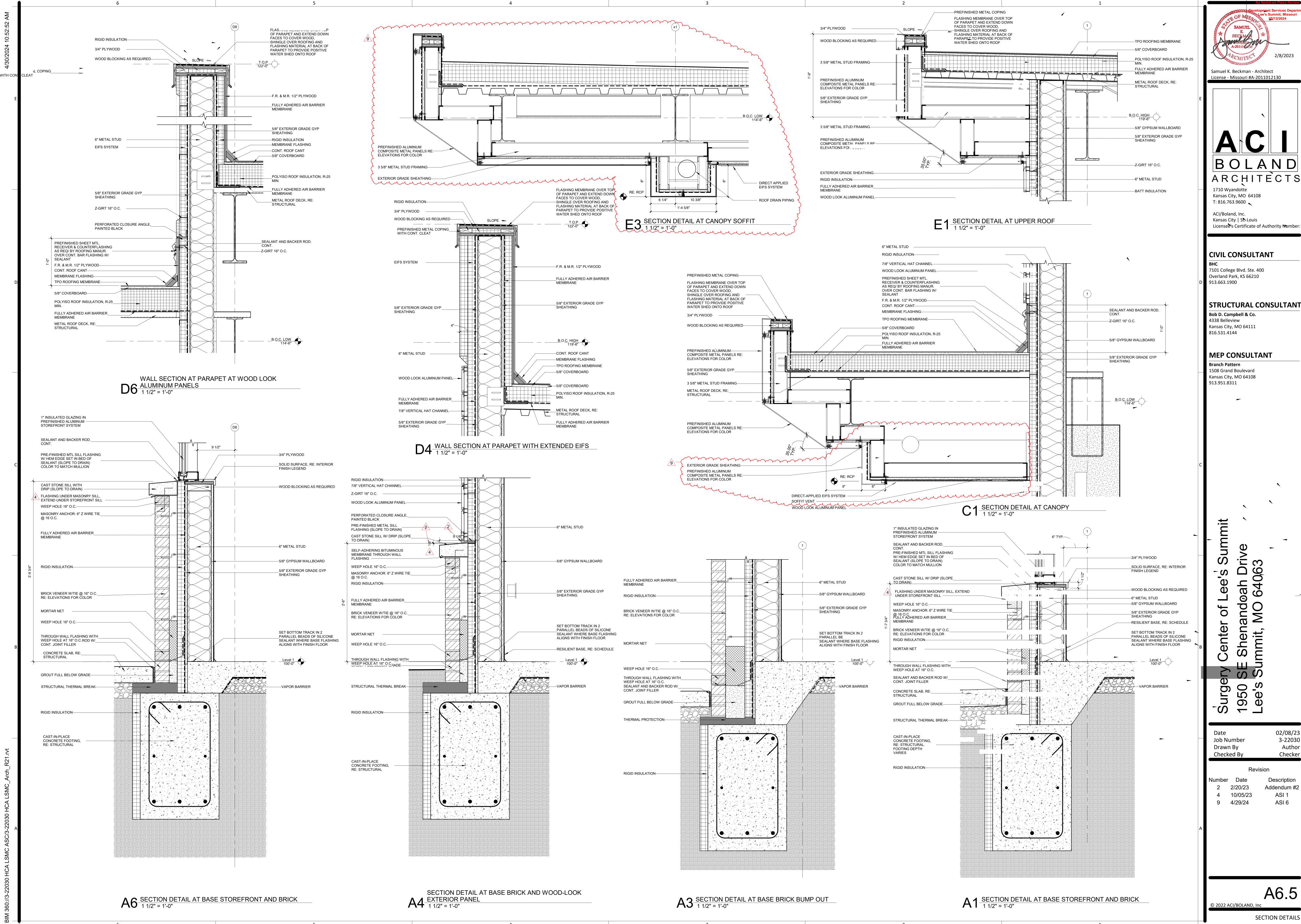
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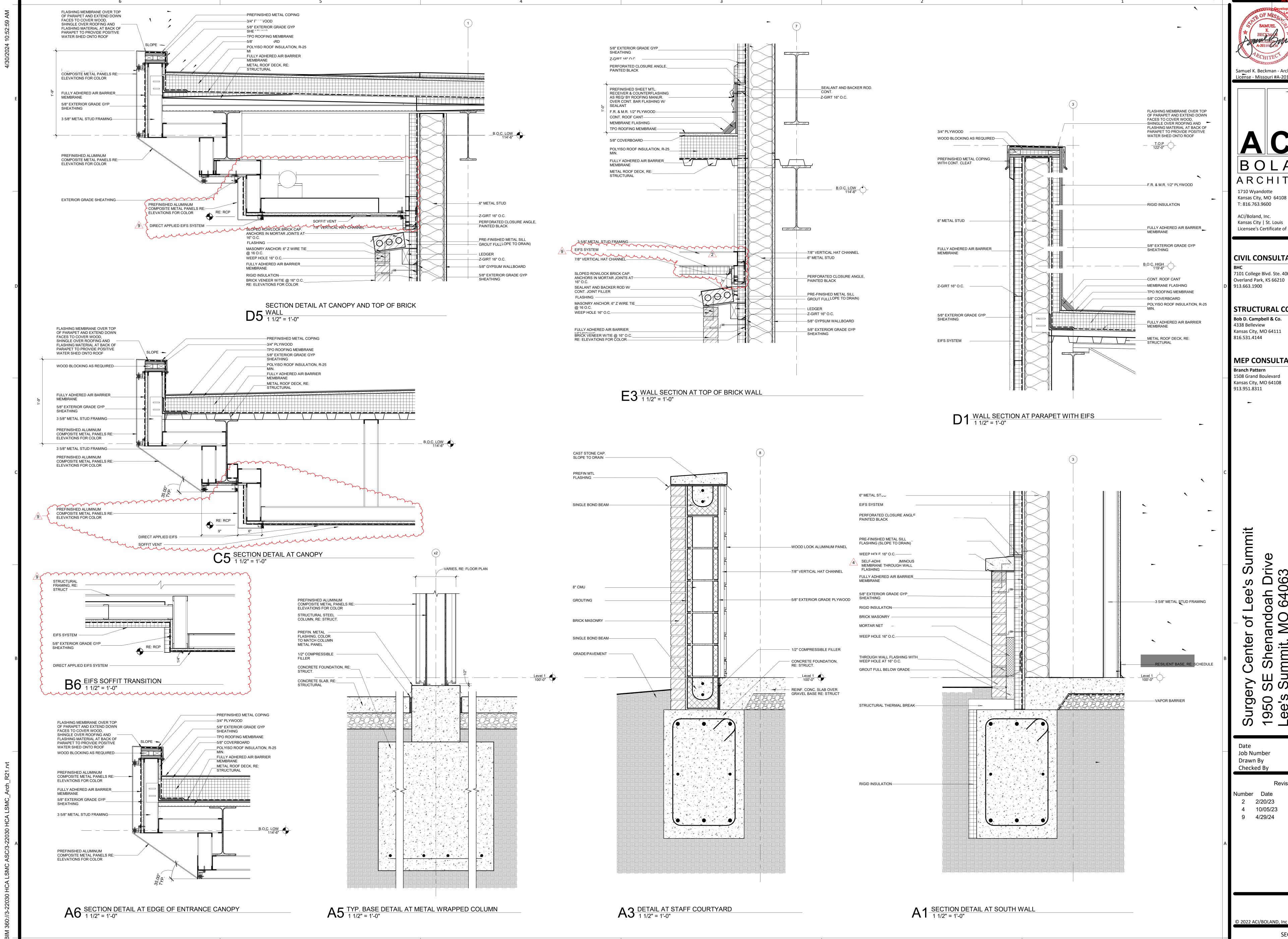
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SECTION DETAILS

### **GENERAL NOTES - STRUCTURAL**

### . General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural. mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- C. All design and construction work for this project shall conform to the requirements of the following governing design codes: 1. International Building Code (IBC 2018) as amended by the city of Lee's Summit,
- 2. Minimum Design Loads for Buildings and Other Structures (ASCE7-16) 3. Specification for Structural Steel Buildings (AISC 360-16) Member Design Basis is Allowable Stress Design (ASD)
- Connection Design Basis is Allowable Stress Design (ASD) 4. Structural Welding Code (AWS D1.1 and D1.3)
- . Building Code Requirements for Structural Concrete (ACI 318-14) B. Building Code Requirements for Masonry Structures (TMS 402-16) 7. North American Specification for the Design of Cold-Formed Steel Structural
- Members (AISI S100-16) D. These drawings are for this specific project and no other use is authorized.

### 2. Structural Load Design Criteria

1.) Wind: V = 109 mph, Exposure C

- A. Roof Live = 20 psf; Roof Collateral Dead = 25 psf (+ Mech Unit Wt) B. Snow: Pg=20psf, Pf=14psf, Pfmin=20psf; Is=1.0, Ce=1.0, Ct=1.0, Drift per ASCE/SEI 7 C. Lateral Loads:
- Occupancy [Risk] Category II, lw=1.0 GCpi=+/-0.18 Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment
- 2.) Seismic: Ss = .101, S1 = .069 Occupancy [Risk] Category II, le=1.0, Site Classification C; Sds = .087; Sd1 = .069
- Seismic Design Category B
- Basic Seismic Force-resisting System: Ord. Concent. Braced Steel Frames Not Spec. Det. for Seismic Resist. Equivalent Lateral Force Procedure

factors, and topographic factors where applicable

R = 3.0; V = .029W; Omega = 3.0; Cd=3.0 D. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

### 3. Concrete

- A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for interior flatwork (without floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- C. All concrete for interior flatwork (with floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 550 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.50 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested
- according to ASTM C157 (air drying method only). D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6%
- +/- 1% air entrainment, and a maximum of 4 inches of slump. E. Concrete for elevated rooftop RTU slabs shall be lightweight concrete with a maximum dry density of 115 +/- 3 pounds per cubic foot. Lightweight concrete shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 660 pounds of cement shall be used per cubic yard of concrete, regardless of strength obtained, not over 5 gallons of water per 100 pounds of cement with 5.5% +/- 0.5% air-entrainment and not over 5 inches of
- F. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for
- improved workability. G. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided
- the total minimum cementitious content is not reduced. H. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with
- the concrete mix design shop drawings. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all
- discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over freedraining granular material as prescribed by the project soils report. J. Basement foundation walls shall be braced at the base and top of wall by the contractor until the slab on grade at the base and the floor framing/slab at the top of wall is complete and the concrete has achieved 75% of the design strength. The contractor is responsible for engineering and design of the wall bracing, if
- K. All concrete is reinforced concrete unless specifically called out as unreinforced Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions L. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit
- controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1. Submit Saw Joint/Control Joint Layout Plan for review and approval by the design team. M. Contractor shall verify that all concrete inserts, reinforcing and embedded items
- are correctly located and rigidly secured prior to concrete placement. N. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
- O. No aluminum items shall be embedded in any concrete.

## 4. Reinforcing Steel

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform
- to the requirements of ASTM A185. B. Clear coverage of concrete over reinforcing steel shall be as follows: Concrete placed against earth: 3'
- . Formed concrete against earth: 3 Slabs
- 4. Beams or Columns:
- All coverage shall be nominal bar diameter minimum. C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise). D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall,
- supply 3 #4 vertical support bars for corner bars (RE: Detail F/S0.1). E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise
- F. At all holes in concrete walls and slabs, add 2 #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - # 5 instead of 2 - #5, respectively Unless otherwise covered on architectural plans or specifications, vertical control
- joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise (RE: Detail G/S0.1). Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below
- Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook, Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
- Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

### Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-16 "Code of Standard Practice for Steel Buildings and Bridges" in the 15th Edition of the AISC Steel Construction Manual.
- All exterior steel and connections, and brick relief angles shall be hot-dip galvanized D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N) All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for
- eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall

B. All welding shall conform to the recommendations of the AWS.

- bear his/her seal. E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At braced frames washers
- shall be welded all around to the column base plate with 3/16" fillet weld. F. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web
- reinforcina. G. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 2 1/2" of 1/8" fillet weld each side (minimum).
- H. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bridging in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and
- bottom. Joist sweep allowance shall comply with AISC Standard Practice. I. All openings in steel joist roof to have 3x3x1/4 angle frame set between joists per sections 5 and 5A on sheet S4.0. Support mechanical equipment per section 1/S4.0 or underneath deck with 4x4x5/16 angles laid between joists framed to 4x4x5/16 angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist
- J. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
- K. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise. L. Allow 3.0 tons structural steel to be used as directed in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous

### 6. Post Installed Anchors

galvanized angle and plate.

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor
- installation guidelines and requirements. B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions. . Adhesive anchors used in cracked and uncracked concrete shall have been teste
- and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. D. Mechanical anchors used in solid grouted masonry shall have been tested and
- qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions. E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified
- for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions. F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen

### 7. Foundations

tubes used for adhesives.

- A. The soil investigation was prepared by Alpha-Omega Geotech, the report number is AOG-22-44OE and the telephone number is 913.371.0000. B. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill
- or undisturbed soil capable of safely sustaining 2500 psf. C. Retaining walls are designed for an active (unrestrained conditions) lateral load of 40 pcf
- equivalent fluid pressure. D. Basement walls are designed for an at rest (restrained conditions) lateral load of 60 pcf
- equivalent fluid pressure. E. Contractor shall provide for dewatering at excavations from either surface water or
- F. All foundation excavations shall be inspected by a qualified soil engineer, approved by
- the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense. G. All concrete in the structural portion retaining the backfill shall have attained its design
- strength prior to being backfilled. H. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

## 8. Concrete Masonry Units

- A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 3050 psi and laid up using type N mortar such that f'm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and
- grouted solid. B. The contractor shall provide adequate temporary bracing for all masonry walls during
- C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing). D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the
- architectural drawings. E. Concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls: Vertical reinforcing shall be a minimum of 1 - #5 bar in 6" and 8" walls and 2 - #5 bars in 10" and 12" walls per note "A" (on this sheet), at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters, 24"
- 2. Horizontal reinforcing: A. Horizontal joint reinforcing as noted above.
- B. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 48 bar diameters in each direction). F. Grout, where noted above, shall have a minimum design ultimate compressive strength
- of 2500 psi at 28 day test and 3/8" maximum aggregate size. G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
- I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise covered shall be one 6x4x5/16 angle (LLV) for each 4" width of masonry with 8" bearing (min.) on supporting masonry each end. All exterior lintels to be galvanized. J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing(unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings

## 9. Light Gage Metal Structural Framing

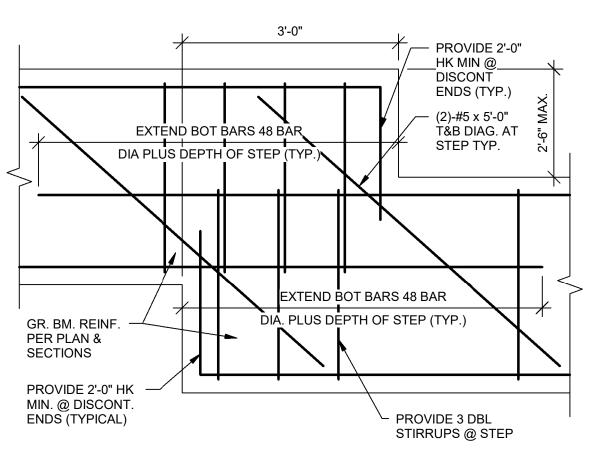
etc., for review by the architect/engineer.

- A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
- B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi. C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members." D. All framing components shall be cut squarely or at an angle to fit squarely
- against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted. E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.

. Prior to fabrication and/or erection, the contractor shall submit shop drawings

complete with detail of erection, fabrication, attachments, anchorages, lintels,

BEVELED JOINT VERTICAL WALL CONTROL JOINT MAXIMUM SPACING = 20'-0" (COORDINATE LOCATIONS WITH ARCHITECT/ALIGN WITH MASONRY



## J TYPICAL GRADE BEAM STEP

## 10. Deferred Submittal and Shop Drawing

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred sub mittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official. C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and
- Company, Inc., the GC shall: Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC. . Review and approve each submission.
- Stamp each submission as approved. D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written
- documentation E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

compounds applied to the concrete after placement.

- F. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC. 1. Concrete mix designs and material certificates including admixtures and
- 2. Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities. Rammed Aggregate Pier design calculations and shop drawings

Structural steel shop drawings including erection drawings and piece details.

- 4. Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing. Grout mix designs (for CMU). Construction and control joint plans and/or elevations.
- Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on nonstructural drawings for Bob D. Campbell and Company, Inc. review. 8. Deferred Submittal: Structural steel connections (including braced frames) and connection design calculations submitted concurrently with the structural steel
- shop drawings. 9. Deferred Submittal: Structural steel joists 10. Deferred Submittal: Railings and guardrails
- 11. Deferred Submittal: Exterior cold-formed metal framing 12. Deferred Submittal: Exterior curtain wall
- 13. Miscellaneous anchors shown on the structural drawings. 14. Standard details and bridging information for light gage metal framing. Erection plans and details for light gage metal joists and lintels spanning more than 6'-0" shall be submitted. Standard interior wall framing need not be submitted.

## 11. Statement of Structural Special Inspections

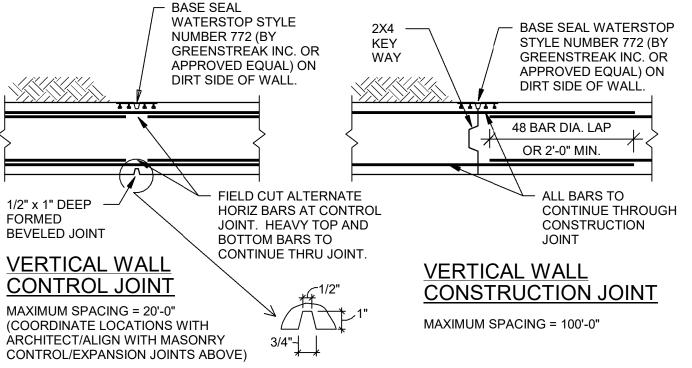
- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person. C. All discrepancies shall be brought to the immediate attention of the contractor for
- correction, then, if uncorrected, to the proper design authority, building official and structural engineer. D. The special inspector shall submit a final signed report stating that the work requiring
- special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of E. The following inspections and tests are required with the frequency (continuous or
- periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
- 1. Shop Fabrication structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop 2. Steel Construction per Section 1705.2 and the quality assurance requirements
- of AISC 341 Chapter J (as referenced by AISC 360) 3. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance
- requirements of SDI QA/QC. 4. Concrete Construction per Section 1705.3 and Table 1705.3
- Reinforcing Steel Placement b. Reinforcing Steel Welding
- Cast in Place Anchors d. Post Installed Anchors e. Design Mix Verification

Concrete Sampling and Testing

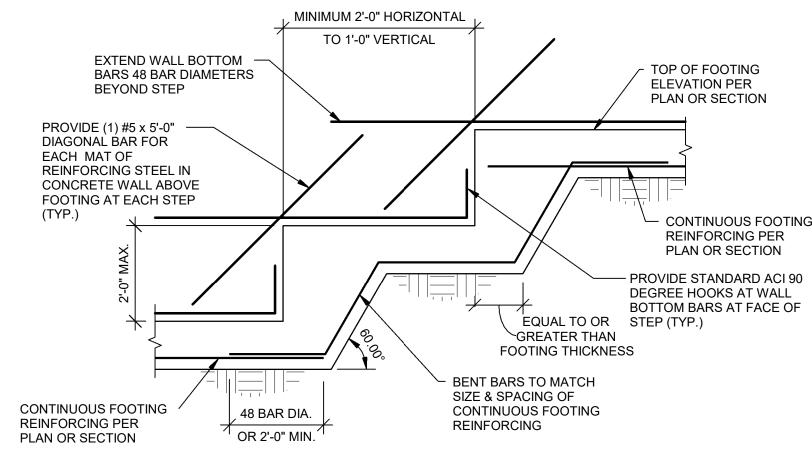
- Concrete Placement Concrete Curing Formwork Shape, Location and Dimensions
- 5. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI530/ASCE5 and TMS602/A530.1/ASCE6 Level B 6. Verification of Soils per Table 1705.6

## 12. Copyright and Disclaimer

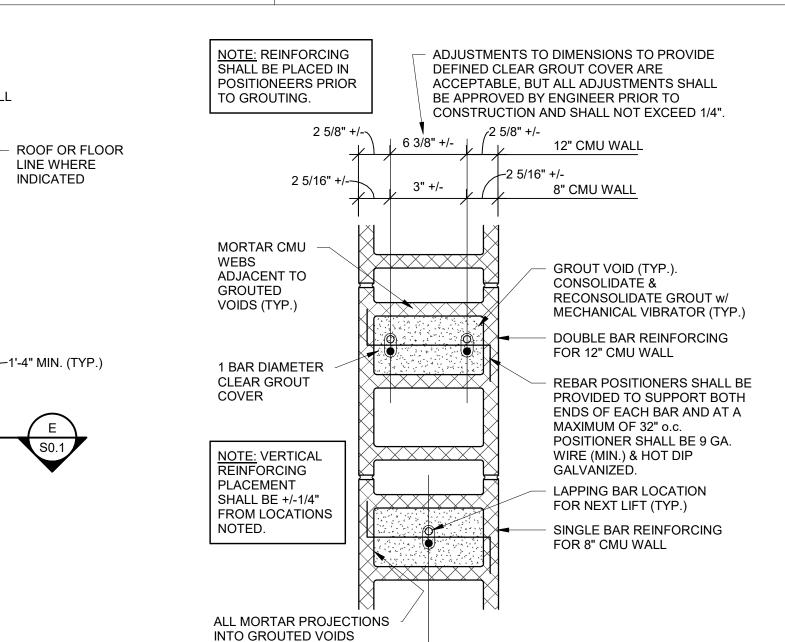
- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose
- or in any manner. B. I, Jeffrey L. Wright, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



## **G VERTICAL WALL CONTROL JOINT**



K TYPICAL FOOTING STEP



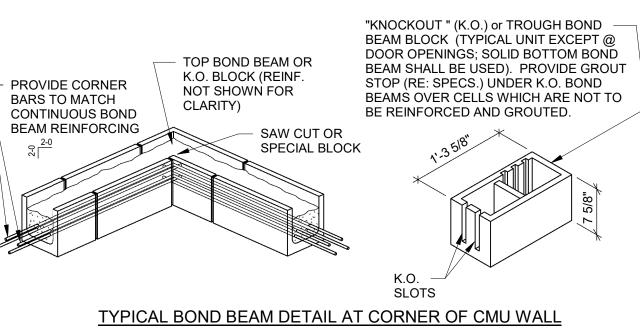
NOTE: ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

SHALL BE LESS THAN 1/2"

BEYOND INSIDE FACE OF

## TYPICAL REBAR POSITIONING DETAIL **B** VERTICAL WALL CONTROL JOINT

— CMU WALL CENTERLINE



D DETAIL

#2 TIES @8"oc THROUGH COLUMN HEIGHT PLUS 2'-0" ABOVE AND BELOW OPENING. CUT WEBS OF BLOCK AS REQUIRED TO RECEIVE TIES. ALL VOIDS IN COLUMN (2) TYPICAL VERT. BARS PER VOID (FULL HEIGHT SHALL BE GROUTED OF WALL) LOCATE BARS PER SECT B/S0.1

### NOTE "A" TYPICAL MASONRY REINFORCING NOTE ALL INTERIOR & EXTERIOR MSRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2 - #5 BOTTOM) AT TOP AND BOTTOM COURSE AND AT 8'-0" MAXIMUM O.C. THERE AFTER AND VERTICALLY PER THE WALL SECTIONS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS (IN 6'-6" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM). PROVIDE VERTICAL BARS AT EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS. FILL BLOCK CELLS AND BOND BEAMS WITH 2,500psi GROUT. RE: DETAILS "A" THROUGH "E"

HORIZONTAL BOND BEAM

VERT.S AREA FULL HEIGHT

TYPICAL CMU WALL REINFORCING AT OPENINGS

1 FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE

2 | LINTEL REINFORCING PER SECTION C/S0.1. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).

FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT

EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2

2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0"

VERTICAL REINF. BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.

2.  $\,$  CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED

VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE

HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM

HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL

SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL

A CMU WALL ELEV.

o.c. MAX

CONT. TOP

**GROUT COURSES** 

SIMULTANEOUSLY

#3 @8"o.c. EACH

HOOK @ TOP

(2) #5 CONT.

THICKNESS

PER PLAN

<u>OPENINGS 4'-0" TO 7'-4"</u>

TYPICAL LINTELS AT ALL CMU WALLS

FACE w/ 180 DEGREE

REINF. CHAIR

SUPPORT @

BOTTOM

WALL

THICKNESS

PER PLAN

<u>OPENINGS 7'-4" TO 12'-0"</u>

REBAR POSITIONER

2-#6 CONT.

(TOP)

OR SUPPORT @ 48"

REINFORCING CONTINUOUS

THROUGH CONTROL JOINTS

2

TOP OF WALL

VERT. WALL

CONTROL JT.

(FULL HEIGHT)

BARS TYPICAL IN 12" WALLS).

 $^{
m J}$  PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).

EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.

COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

GENERAL CRITERIA: (SECTION A/S0.1 CONTINUED):

REBAR POSITIONER

OR SUPPORT @ 48"

(2) #4 CONT. TOP

(2) #4 CONT.

THICKNESS

PER PLAN

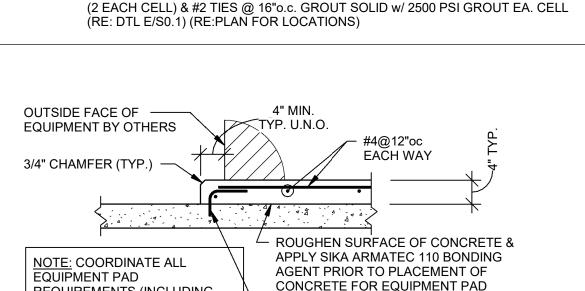
**OPENINGS UP TO 4'-0"** 

REINF. CHAIR

SUPPORT @

o.c. MAX.

S0.1



H TYPICAL EQUIPMENT PAD

REQUIREMENTS (INCLUDING

PAD THICKNESS & DIMENSIONS

& EQUIPMENT ANCHORS) w/

**EQUIPMENT SUPPLIER.** 

· INDICATES 8"x16" OR 12"x16" MASONRY COLUMN REINFORCED w/ (4) #5 VERT.

- #4 DOWELS @12"oc ALL AROUND

PERIMETER OF EQUIPMENT PAD.

DRILL & EPOXY w/ 3" EMBEDMENT

48 BAR DIA. 48 BAR DIA. WALL REINF 3 CORNER OR 2'-6" 2'-6" MIN. BAR MATCHING SUPPORT BAR WALL HORIZ. REINF. SIZE AND WITHOUT REBAT SPACING TYP. VERT. SUPP. BAR WHERE REQ'D **TYPICAL CORNER BARS** 

DIM. PER ARCH. MECH. EQUIPMENT & (8" MIN.) CONN. BY EQUIP. MANUF. T/PAD EL PER CIVIL/MECH DWGS **GRADE PER** T&B EA. WAY CIVIL DWGS -<del>\ \</del> 4" FREE-DRAINING GRANULAR FILL GRAVEL) (1) #4 CONT @ MID-HT COMPACTED SUBGRADE PER GEOTECH (2) #4 T&B CONT W/ 48 BAR DIA.

BOLAND

**CONSTRUCTION** 

1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600

ACI/Boland, Inc.

Kansas City | St. Louis

ARCHITECTS

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CIVIL CONSULTANT

STRUCTURAL CONSULTANT Bob D. Campbell & Co.

Kansas City, MO 64111 816.531.4144

4338 Belleview

MEP CONSULTANT **Branch Pattern** 1508 Grand Boulevard

Kansas City, MO 64108

913.951.8311

(II)

Date

Job Numbei

Checked By

Drawn By

TYPICAL MASONRY COLUMN E SECTION

TYP. AT LOCATION T-INTERSECTION REINFORCING

TYP @ PERIMETER LAP CORNER BARS FOR EA. #4 @ 12"oc BAR AT PAD CORNERS

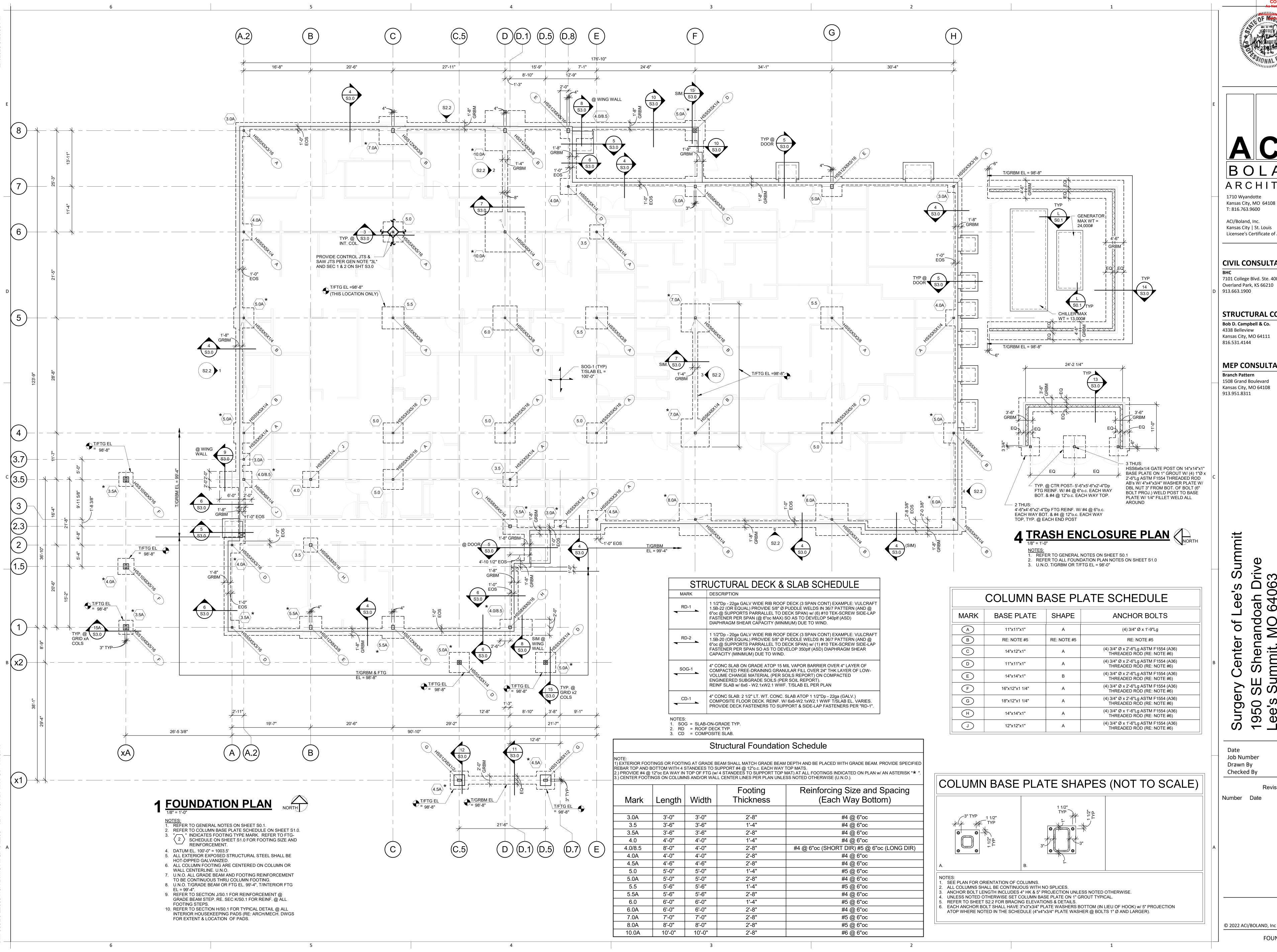
> THAT LISTED ON PLAN PRIOR TO SLAB EXCAVATION & INSTALLATION. SECTION

TYPICAL PAD FOR: CHILLER AND GENERATOR, G.C. VERIFY EQUIPMENT SIZE & WT WITH

3-22030

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**GENERAL NOTES** 



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STRUCTURAL CONSULTANT

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MEP CONSULTANT

1508 Grand Boulevard Kansas City, MO 64108

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S1.0

**FOUNDATION PLAN** 



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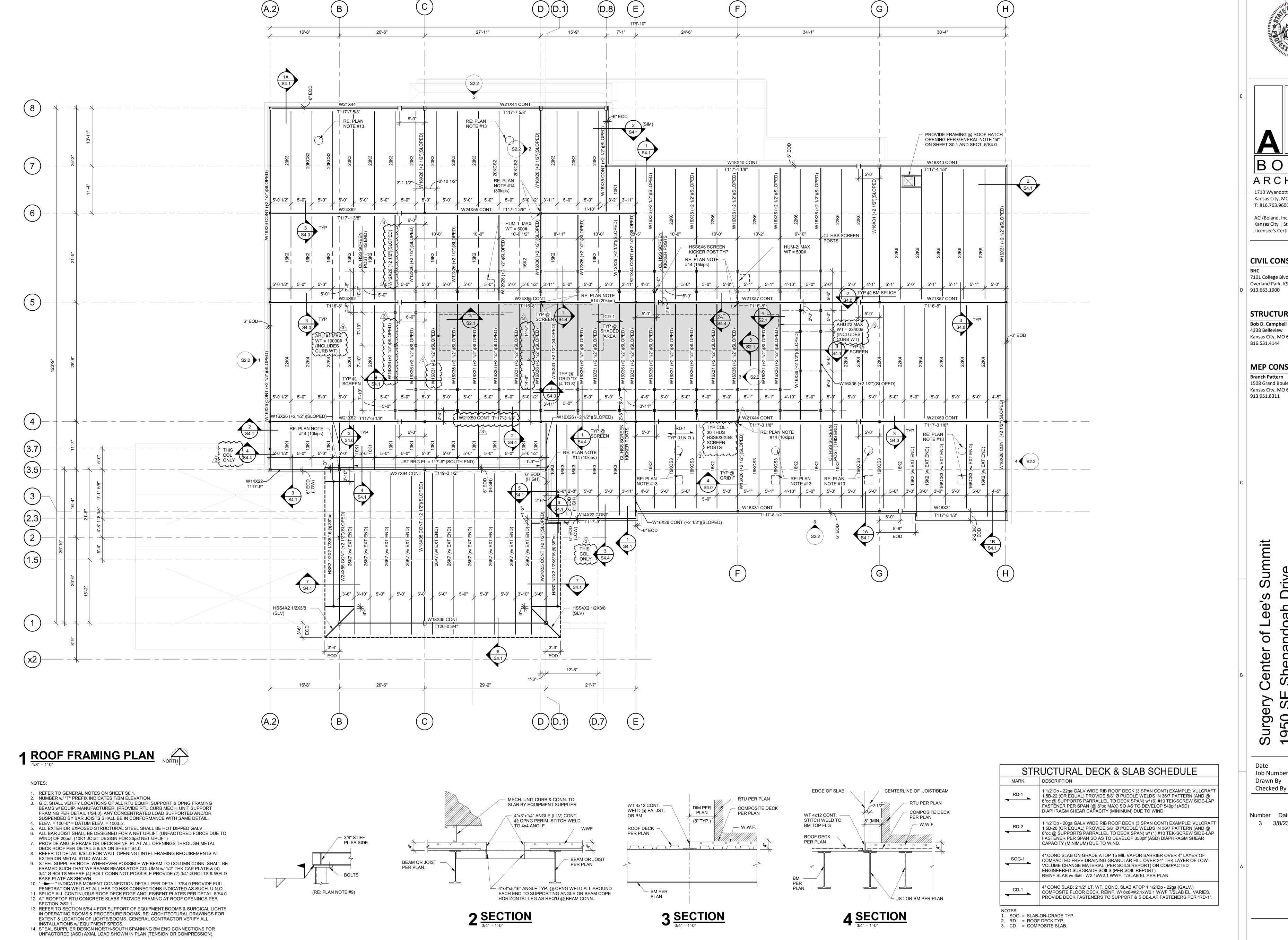
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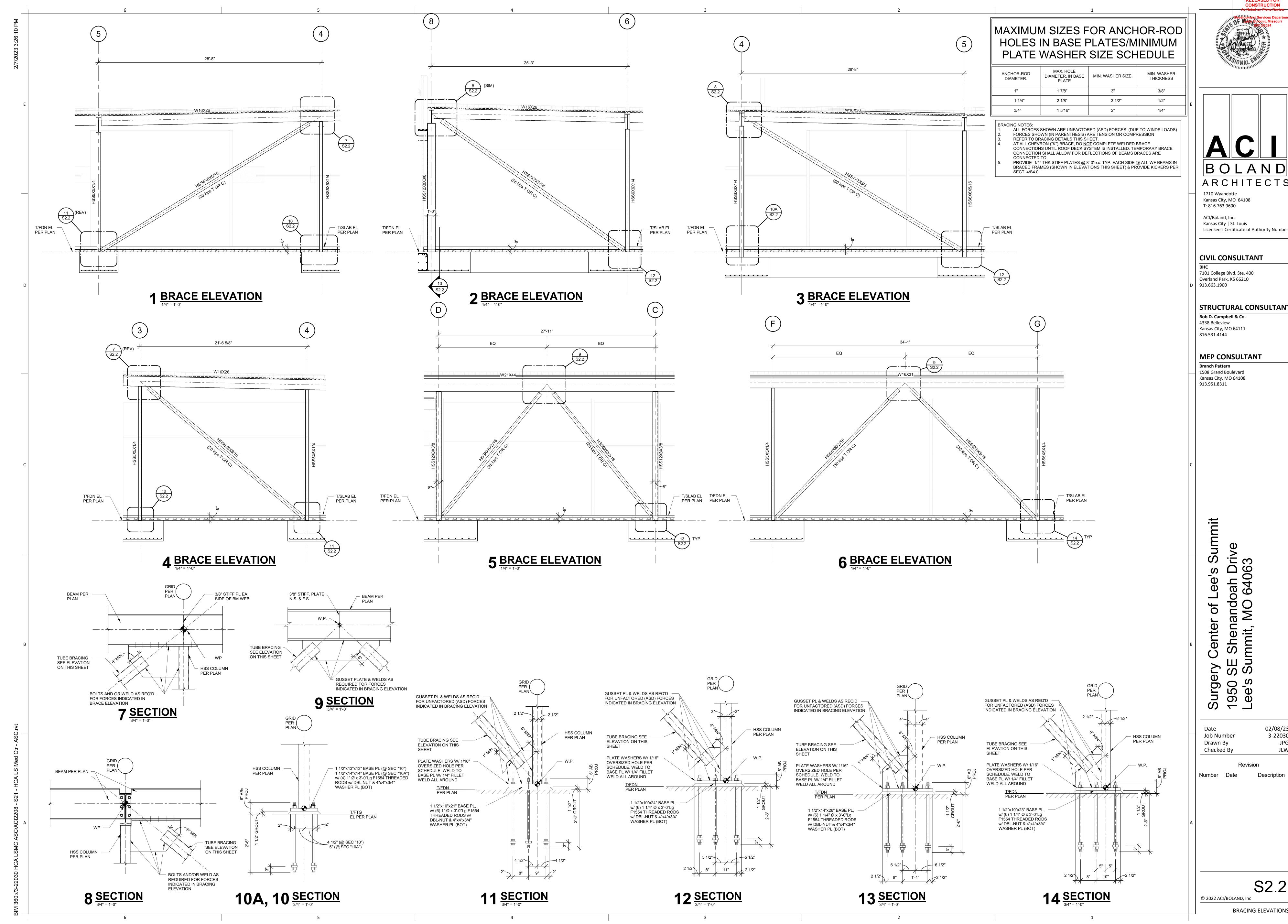
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Addendum #3

3 3/8/23

© 2022 ACI/BOLAND, Inc HIGH (MAIN) ROOF FRAMING PLAN

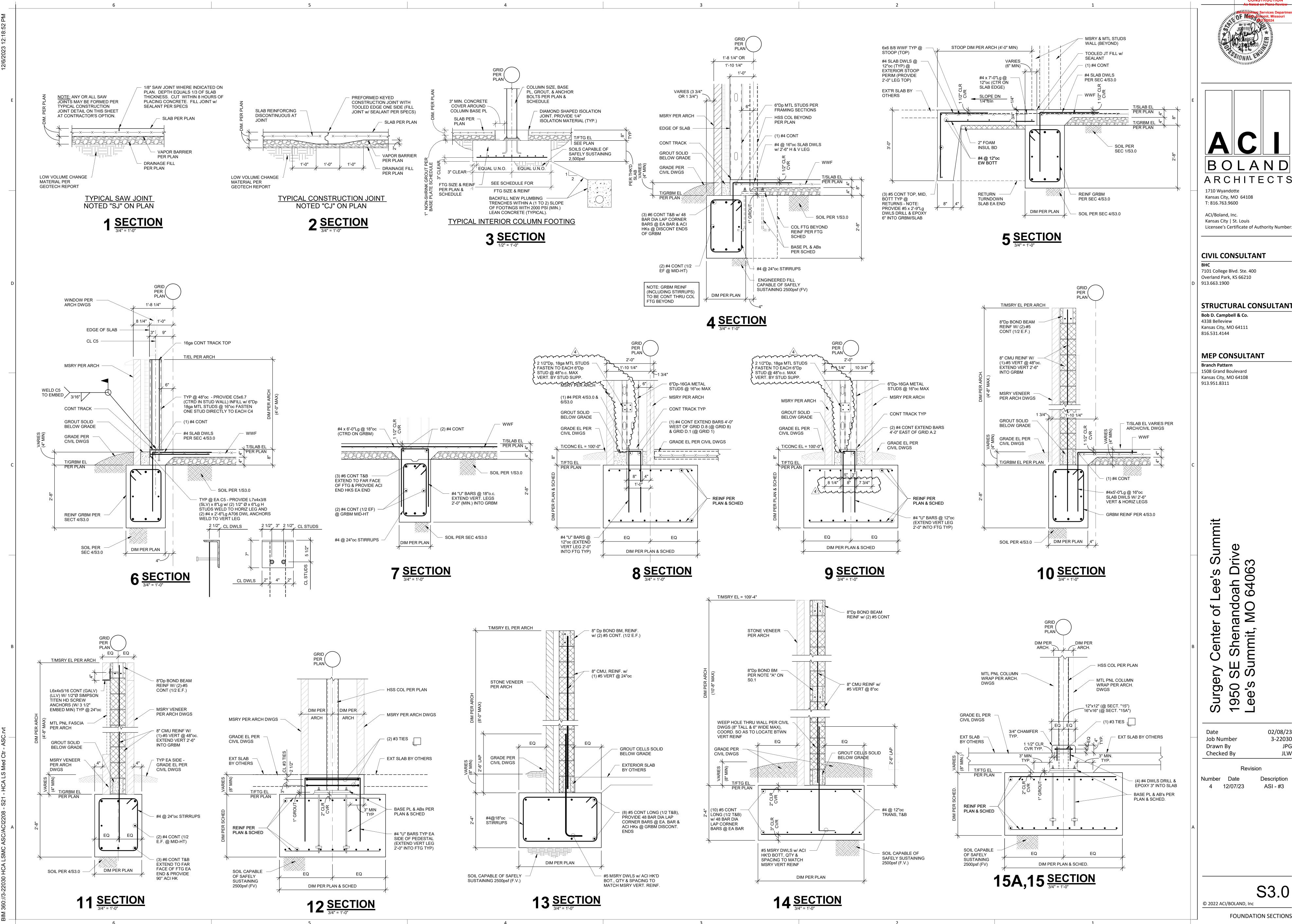


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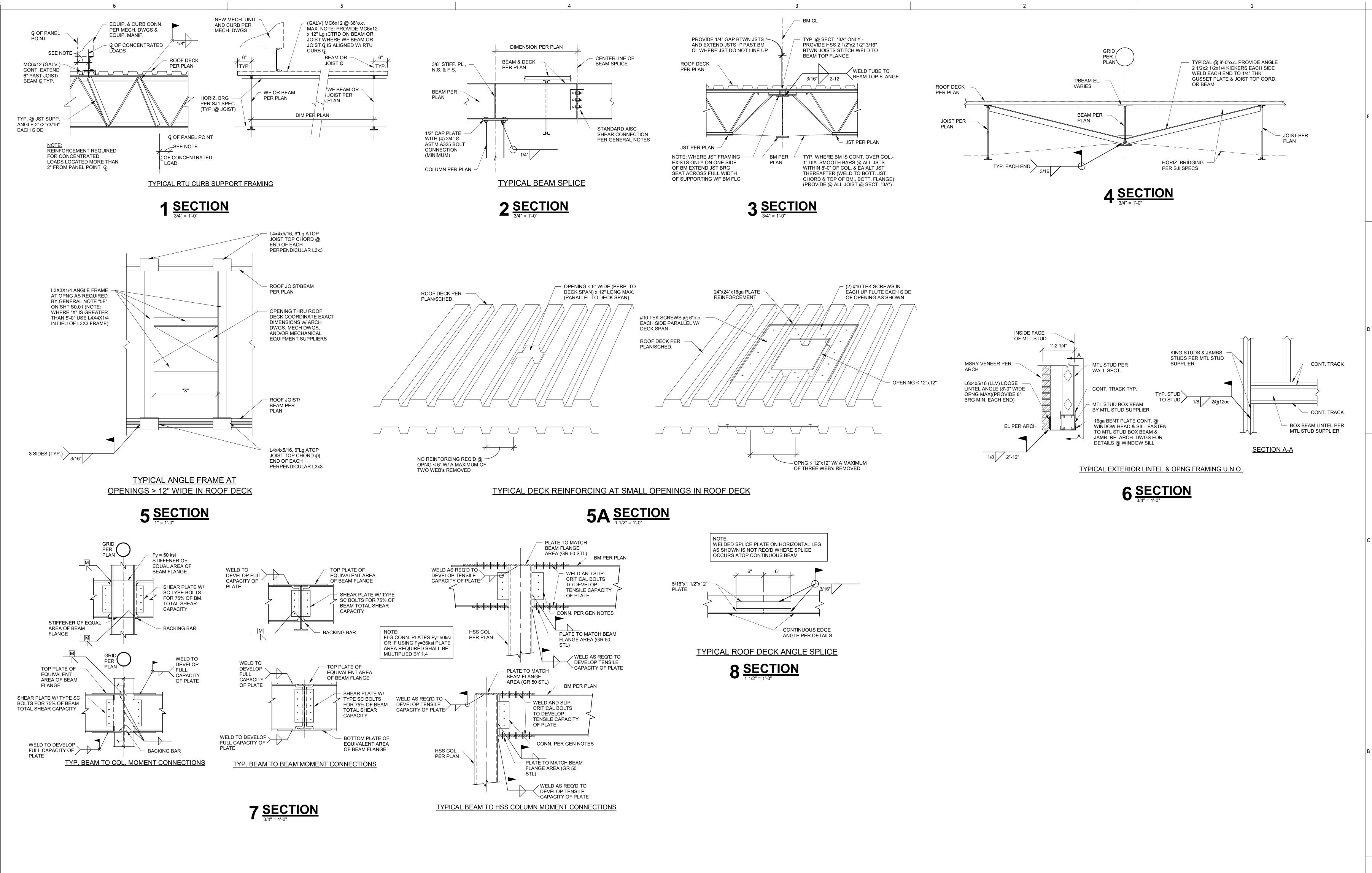
6406 Surge 950 ee's

> 02/08/23 3-22030

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**FOUNDATION SECTIONS** 



As Noted on Plans Review

Development, Services Departing Services Dep

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Job Number 3-22030
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Checked By JLW

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ROOF FRAMING SECTIONS

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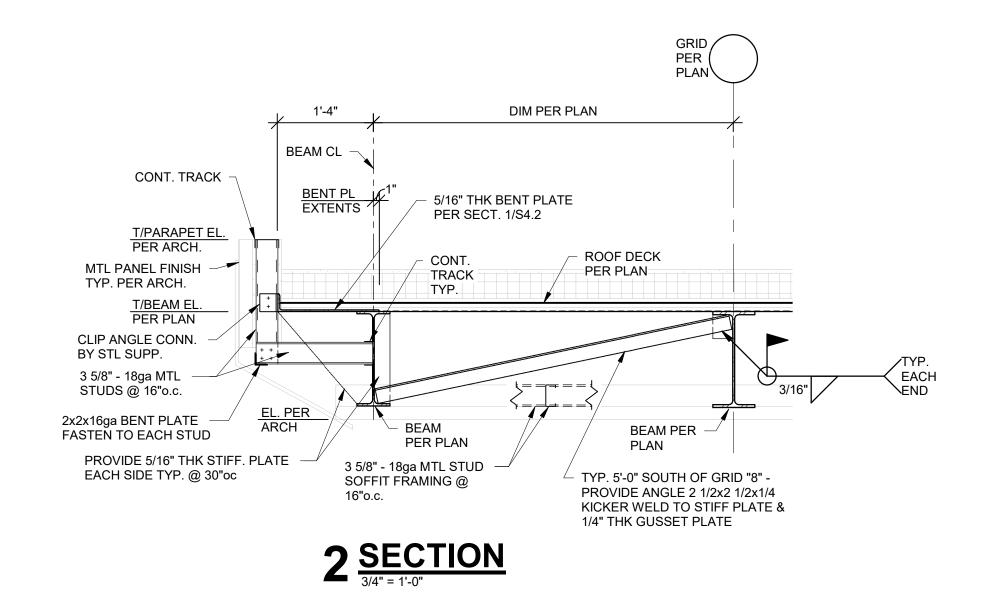
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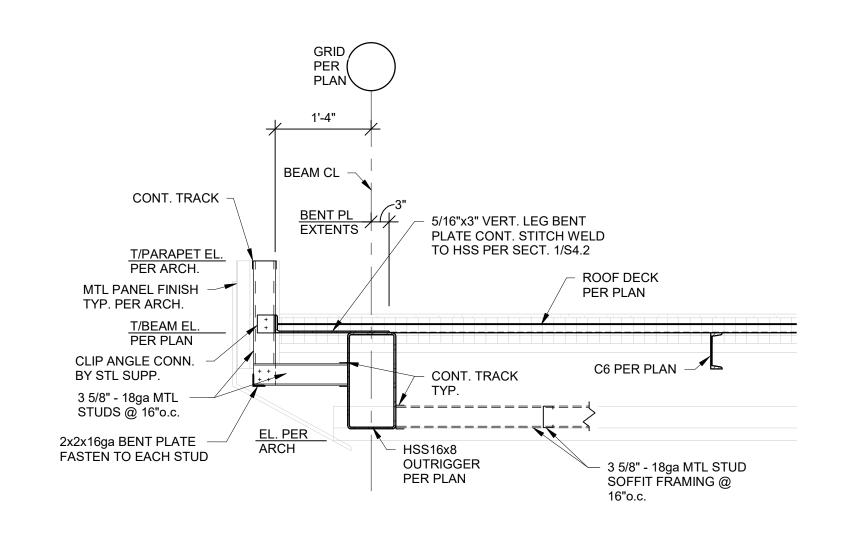
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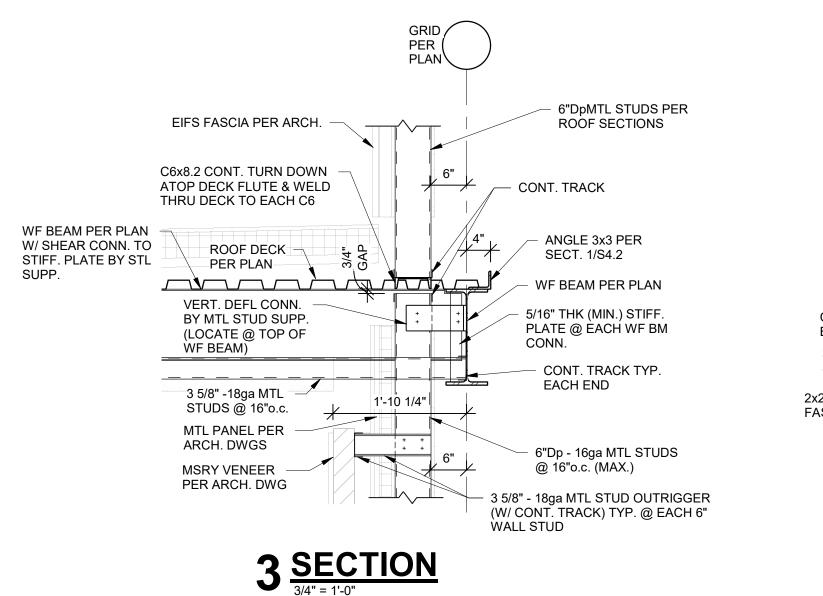
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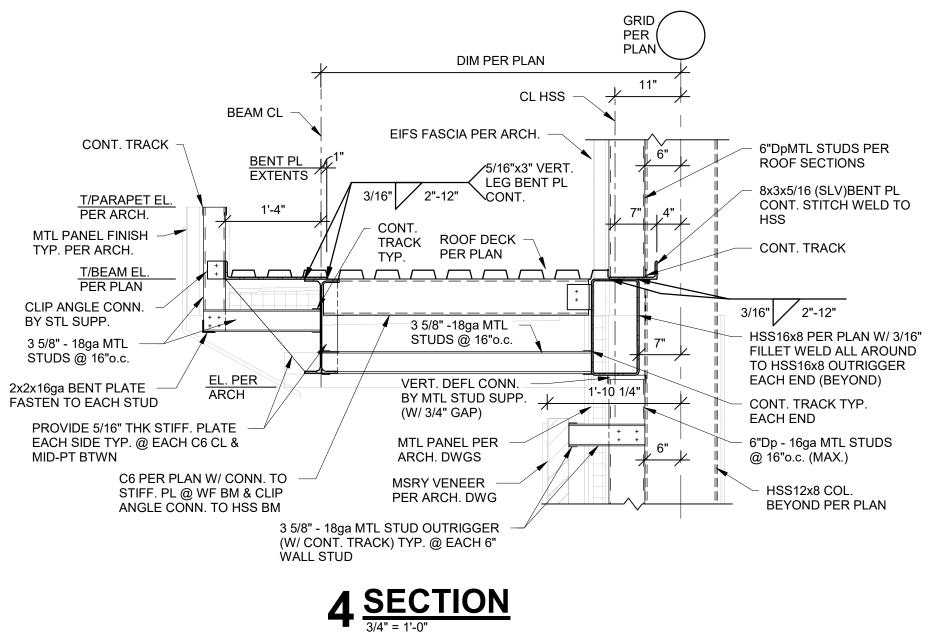
**ROOF FRAMING SECTIONS** 

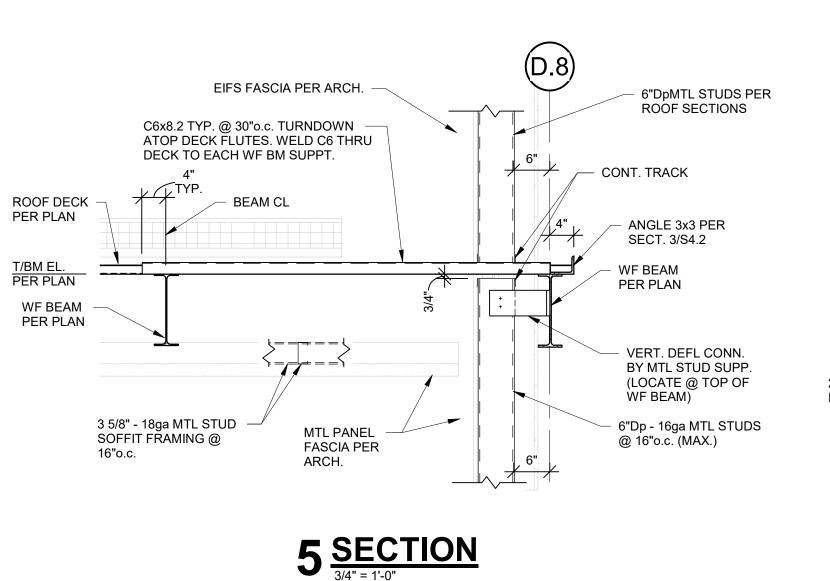


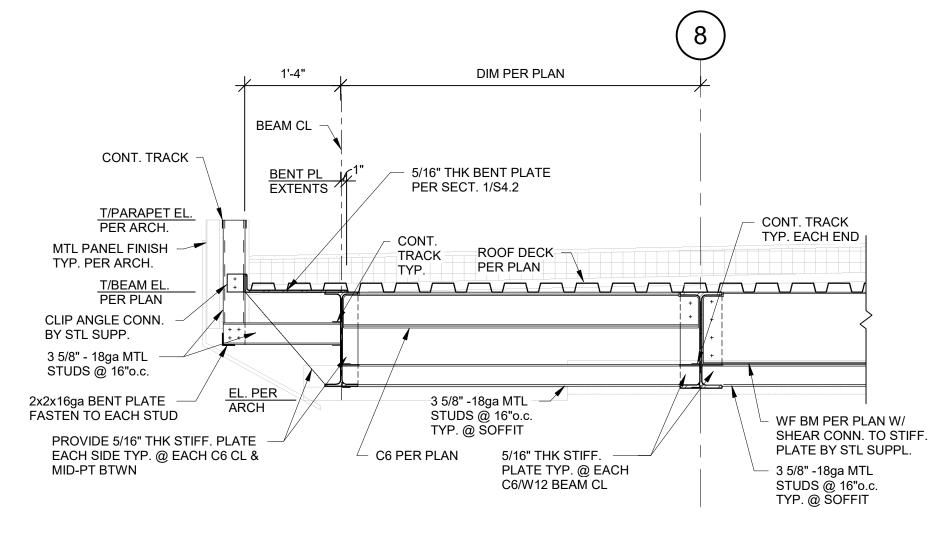


## **2A SECTION**3/4" = 1'-0"









6 <u>SECTION</u>

JEFFREV
JEFFRE

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CANOPY FRAMING SECTIONS

BEAM CL

 $1 \frac{\text{SECTION}}{3/4" = 1'-0"}$ 

LEG BENT PL

ROOF DECK

- 3 5/8" - 18ga MTL

STUD @ 16"o.c.

GRID PER PLAN

- 6" MTL STUDS PER

L3x3x5/16 CONT

STITCH WELD TO WF

**ROOF SECTIONS** 

WF BM PER PLAN

TOP OF WF BM)

6"Dp 16ga MTL

STUDS @ 16"oc

VERT DEFL CONN BY MTL

STUD SUPP (LOCATE @

CONT TRACK

PER PLAN

3/16" 2"-12" CONT.

TRACK

CLIP ANGLE CONN. BY STUD SUPP. TYP.

EIFS FASCIA

PER ARCH

CONT TRACK

MTL PANEL

FASCIA PER

NOTE: OMIT THIS

@ SEC "5A" ONLY

MTL STUD FRAMING

EIFS FASCIA PER ARCH -

CONT. TRACK

T/PARAPET EL. PER ARCH.

MTL PANEL FINISH

TYP. PER ARCH.

CLIP ANGLE CONN.

3 5/8" - 18ga MTL

STUDS @ 16"o.c.

MID-PT BTWN

C6x8.2 TYP @ 30"oc TURN

DOWN ATOP DECK FLUTES WELD C6 THRU DECK TO

WF BM PER

CLIP ANGLE

STUD SUPP

PER 1/S4.3

3 5/8"Dp MTL STUD

C6x8.2 CONT TURNED DOWN ATOP DECK FLUTES WELD THRU

3 5/8" 18ga MTL

STUDS @ 16"oc

SOFFIT FRAMING

NOTE: OMIT THIS

SEC "9A" ONLY

STUD FRAMING @

STUD FRAMING @

9A, 9 <u>SECTION</u>

SEC "9A" ONLY

SOFFIT FRAMING

CONN BY

EA WF BM SUPPORT

**ROOF DECK** 

PER PLAN

T/BM EL PER PLAN

**ROOF DECK** 

PER PLAN

T/BM EL PER PLAN

MTL PANEL

SOFFIT PER

2x2x16ga BENT PLATE — FASTEN TO EACH STUD

PROVIDE 5/16" THK STIFF. PLATE EACH SIDE TYP. @ EACH BM CL &

BY STL SUPP.



DIM PER PLAN

CLIP ANGLE CONN

BY STUD SUPP TYP

4 **SECTION** 

5/16" THK BENT

PL PER 1/S4.3

3 5/8" 18ga MTL STUD @ 16"oc

ROOF DECK

PER PLAN

EL PER ARCH

MTL PANEL FASCA PER

ARCH

ROOF DECK

PER PLAN

MTL PANEL

PER ARCH

- CONT TRACK

WF BM PER

6"Dp 16ga MTL

STUDS @ 16"oc

PLAN

VERT DEFL CLIP ANGLE

(LOCATE CONN @ TOP

CONN BY STUD SUPP

DOUBLE ANGLE —— CONN BY STL SUPP

**ROOF DECK** 

3 5/8"Dp SOFFIT STUD FRAMING

PER 1/S4.3

CONT TRACK -

CLIP ANGLE CONN

T/PARAPET EL PER ARCH

2"x2"x16ga BENT PL

CONT FASTEN TO

EA MTL STUD

3 5/8"Dp 18ga MTL

STUDS @ 16"oc

EL PER ARCH

MTL PNL FINISH

PER ARCH DWGS

CLIP ANGLE CONN

BY STUD SUPP TYP

BY STUD SUPP

PER PLAN

DOUBLE ANGLE

CONNECTION BY STEEL SUPP

CLIP ANGLE CONN

BY STUD SUPP TYP

- 6"Dp MTL STUDS PER 8/S4.1

CLIP ANGLE CONN BY STUD

STUD WALL BEYOND

w/ 3/16" FILLET WELD ALL

CONT TRACK TYP EA END

CLIP ANGLE CONN BY

MTL STUD SUPP (OMIT

CONN @ FULL HT MTL

SUPP NOTE: @ FULL HT MTL

HSS20x8 OR HSS12x8 PER PLAN

AROUND TO HSS COL BEYOND

CONT TRACK

L3x3 PER 5/S4.3

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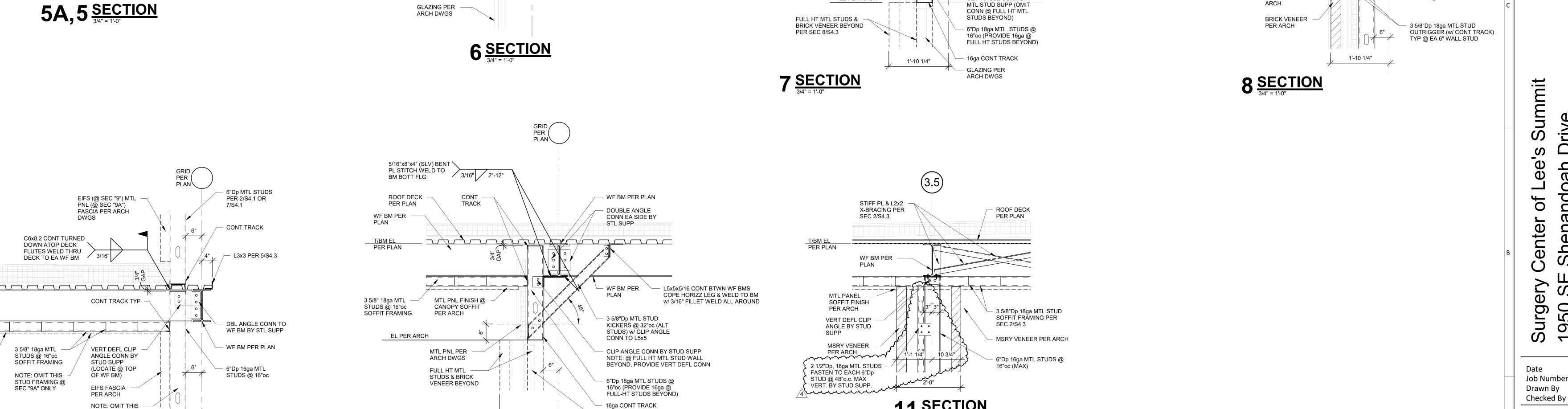
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S4.3



GRID PER PLAN

ROOF DECK

- C6 PER PLAN

- 3 5/8" - 18ga MTL

STUD @ 16"o.c.

PER PLAN

DIM PER PLAN

5/16" BENT PLATE

PER SECT. 1/S4.3

TRACK

CLIP ANGLE

3 **SECTION** 

5'-0"

FASCIA PER

MTL PANEL

FASCA PER

EL PER ARCH

CONN. BY STUD SUPP. TYP.

CONT. TRACK

T/PARAPET EL.
PER ARCH.

MTL PANEL FINISH -TYP. PER ARCH.

CLIP ANGLE CONN.

BY STL SUPP.

3 5/8" - 18ga MTL STUDS @ 16"o.c.

2x2x16ga BENT PLATE — FASTEN TO EACH STUD

PROVIDE 5/16" THK STIFF. PLATE EACH SIDE TYP. @ EACH C6 CL & MID-PT BTWN

1'-4"

CONT TRACK -

CLIP ANGLE CONN

BY STUD SUPP

T/PARAPET E PER ARCH

2"x2"x16ga BENT PL

CONT FASTEN TO

EA MTL STUD

3 5/8"Dp 18ga MTL STUDS @ 16"oc

EL PER ARCH

MTL PNL FINISH

STUD SUPP

**GLAZING PER ARCH DWGS** 

1'-10 1/4"

10 **SECTION** 

PER ARCH DWGS

CLIP ANGLE CONN BY

→ BM CL

5/16" THK BENT

PL PER 1/S4.3

3 5/8" 18ga MTL

STUD @ 16"oc

ROOF DECK PER PLAN

C6x8.2 TYP @ 30"oc TURN DOWN —— ATOP DECK FLUTES. WELD C6 THRU

DECK TO EA WF/HSS BM SUPPORT

T/BEAM EL PER PLAN

GRID / PER (

ROOF DECK

PER PLAN

5/16" THK STIFF.

6"Dp MTL STUDS

PER 7/S4.1

- CONT TRACK

L3x3 PER 5/S4.3

DBL ANGLE CONN

WF BM TO HSS BY

HSS16x8 PER PLAN w/

3/16" FILLET WELD TO

HSS COL EA END

6"Dp 18ga MTL STUDS @

16"oc (PROVIDE 16ga @

16ga CONT TRACK

FULL HT STUDS BEYOND)

STL SUPP

TYP. @ 5'-0"o.c. - PROVIDE

WELD ANGLE TO STIFF

PLATE EACH END

- 3 5/8" - 18ga MTL

STUD @ 16"o.c.

GRID / PER (

ANGLE 2x2x1/4 X-BRACING

PL TYP. @ 5'-0"o.c.

DIM PER PLAN

5/16" BENT PLATE

PER SECT. 1/S4.3

TRACK TYP.

**CLIP ANGLE** 

2 **SECTION** 

CONT TRACK

CLIP ANGLE

CONN BY STUD

SUPP TYP T&B

EL PER ARCH

MTL PNL FASCIA

PER ARCH

**GLAZING PER** 

MTL PNL FASCIA PER ARCH DWGS

CONN. BY STUD SUPP. TYP.

CONT. TRACK

T/PARAPET EL.
PER ARCH.

MTL PANEL FINISH -TYP. PER ARCH.

CLIP ANGLE CONN. BY STL SUPP.

3 5/8" - 18ga MTL STUDS @ 16"o.c.

2x2x16ga BENT PLATE — FASTEN TO EACH STUD

PROVIDE 5/16" THK STIFF. PLATE

C6x8.2 CONT TURNED DOWN ATOP DECK

FLUTES WELD THRU

DECK TO EA WF BM

ROOF DECK PER PLAN

MTL PANEL

SOFFIT PER

3 5/8" 18ga MTL

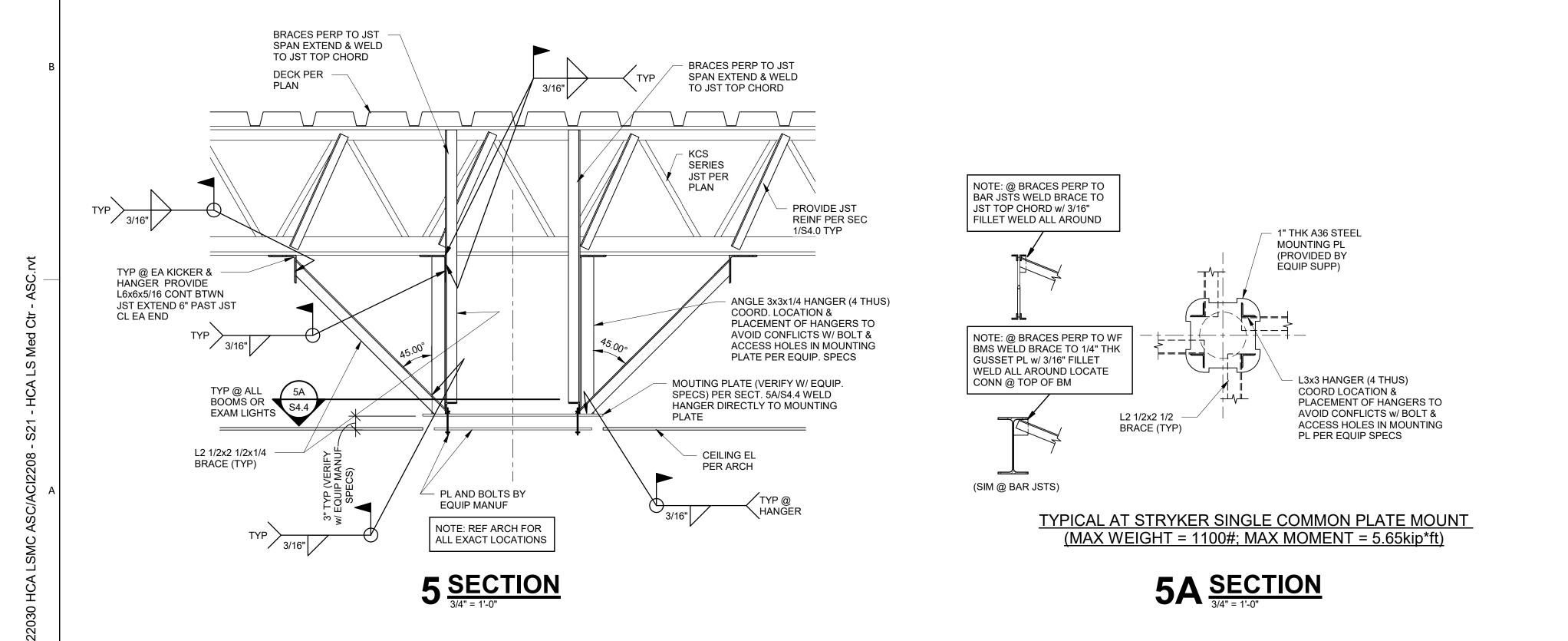
STUDS @ 16"oc SOFFIT FRAMING

ARCH

EACH SIDE TYP. @ 30"oc

T/BEAM EL PER PLAN

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Number Date

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ROOF FRAMING SECTIONS

## GENERAL PLAN NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR
- SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER. IF MATERIAL SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE
- OWNER SHALL COORDINATE WITH CONTRACTOR ON THE REMOVAL OF SUCH ITEMS. WORK MAY PROCEED AFTER HAZARDOUS MATERIAL HAS BEEN REMOVED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND
- CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT
- NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
- AS REQUIRED FOR NEW FINISH APPLICATION. DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY
- OCCUPANTS OF BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION
- CONDUCT ALL OPERATIONS IN A SAFE WORKING MANNER TO PREVENT DAMAGE OR INJURY TO ADJACENT SPACES, BUILDING, STRUCTURE, OTHER FACILITIES, AND
- NOTES AS APPLICABLE. SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
- SEE DOOR SCHEDULE FOR DOOR SPECIFICATIONS.
- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITION

## **KEYNOTES - FLOOR PLAN TI**

BUILT IN MILLWORK FIN-TUBE ENCLOSURE. CONSULT BAY GLASS

Keynote Text

BUILT-IN MEDIA CENTER SURROUND COLUMN WRAP



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TI - FIRST FLOOR PLAN

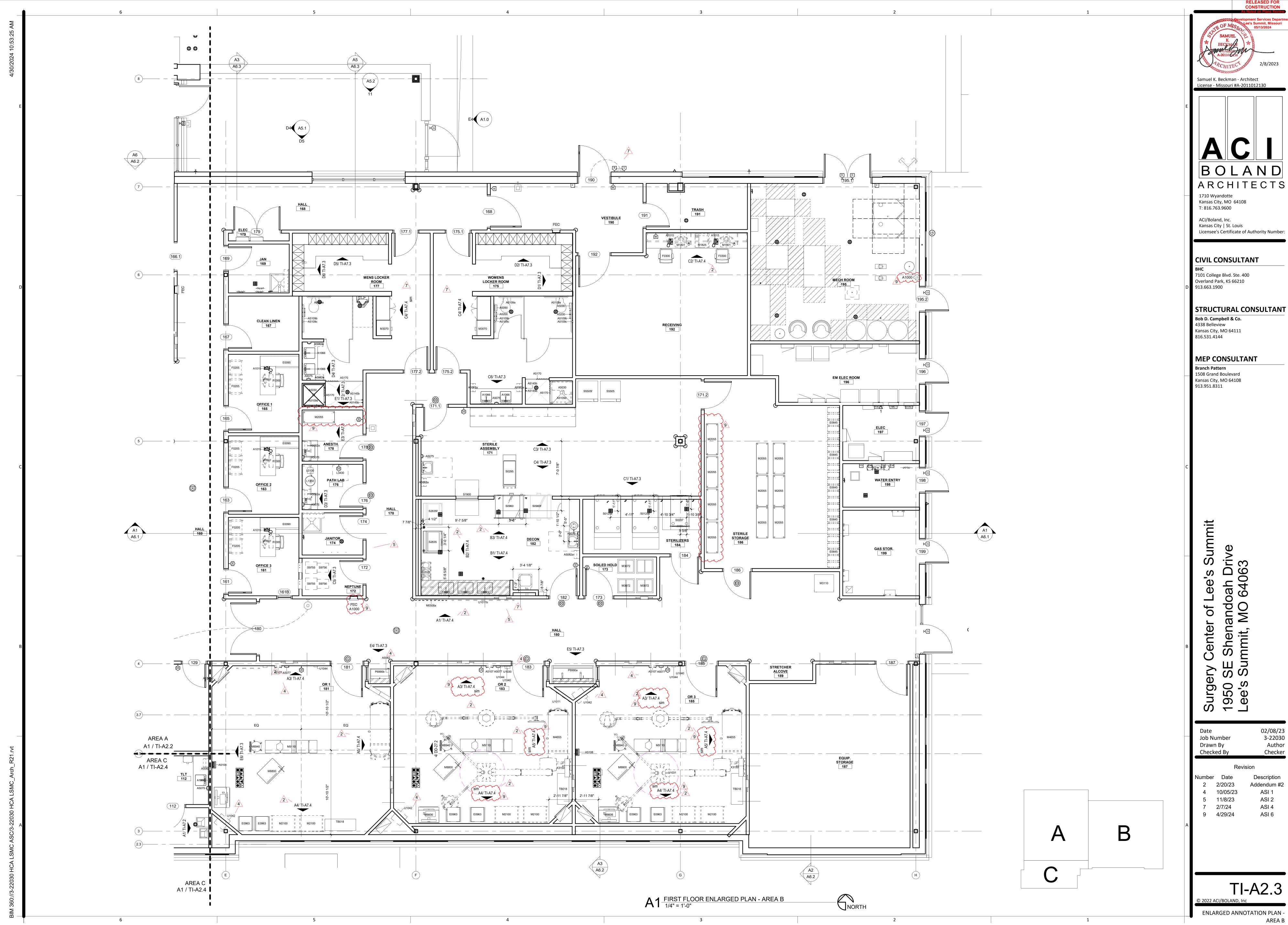


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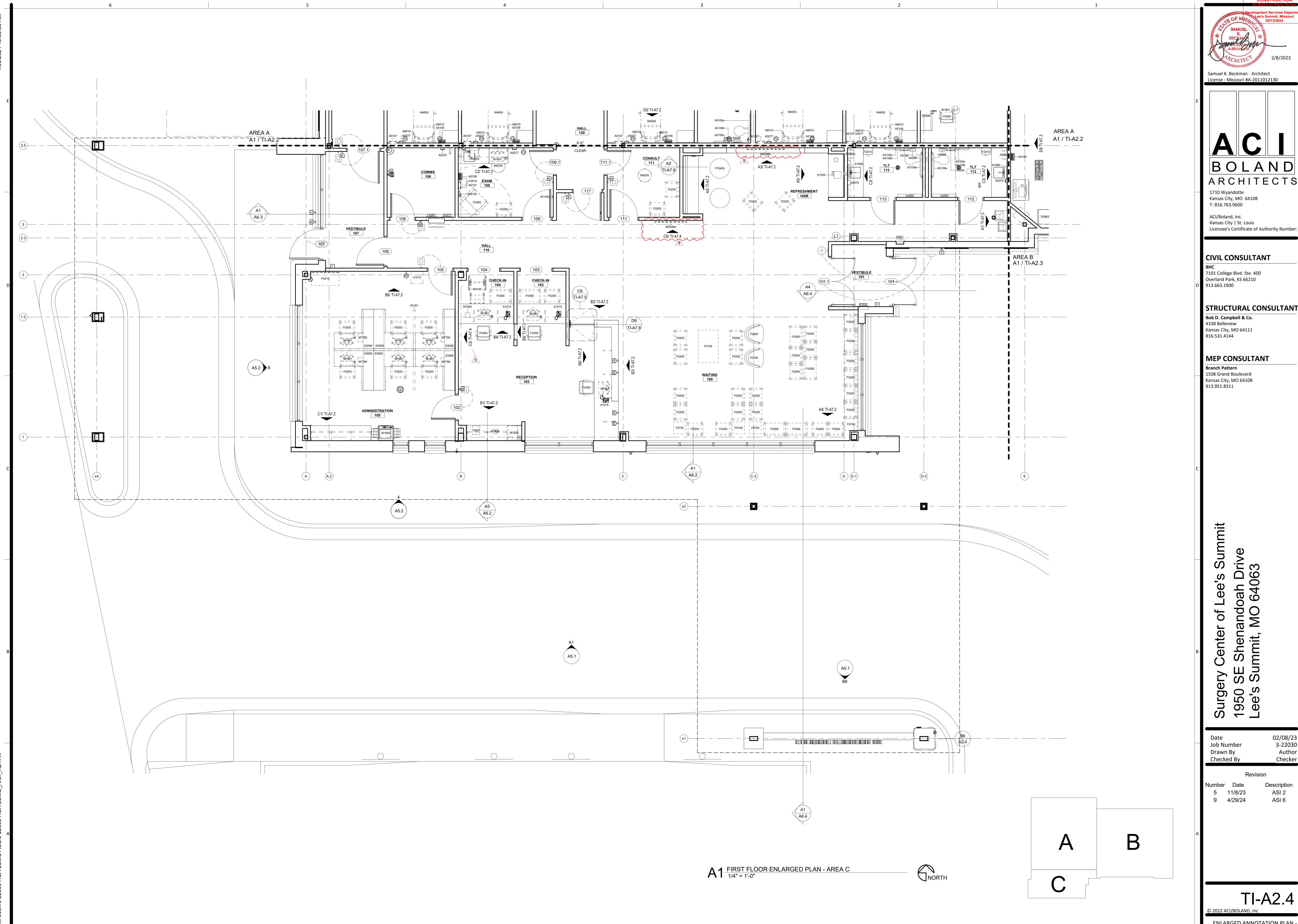
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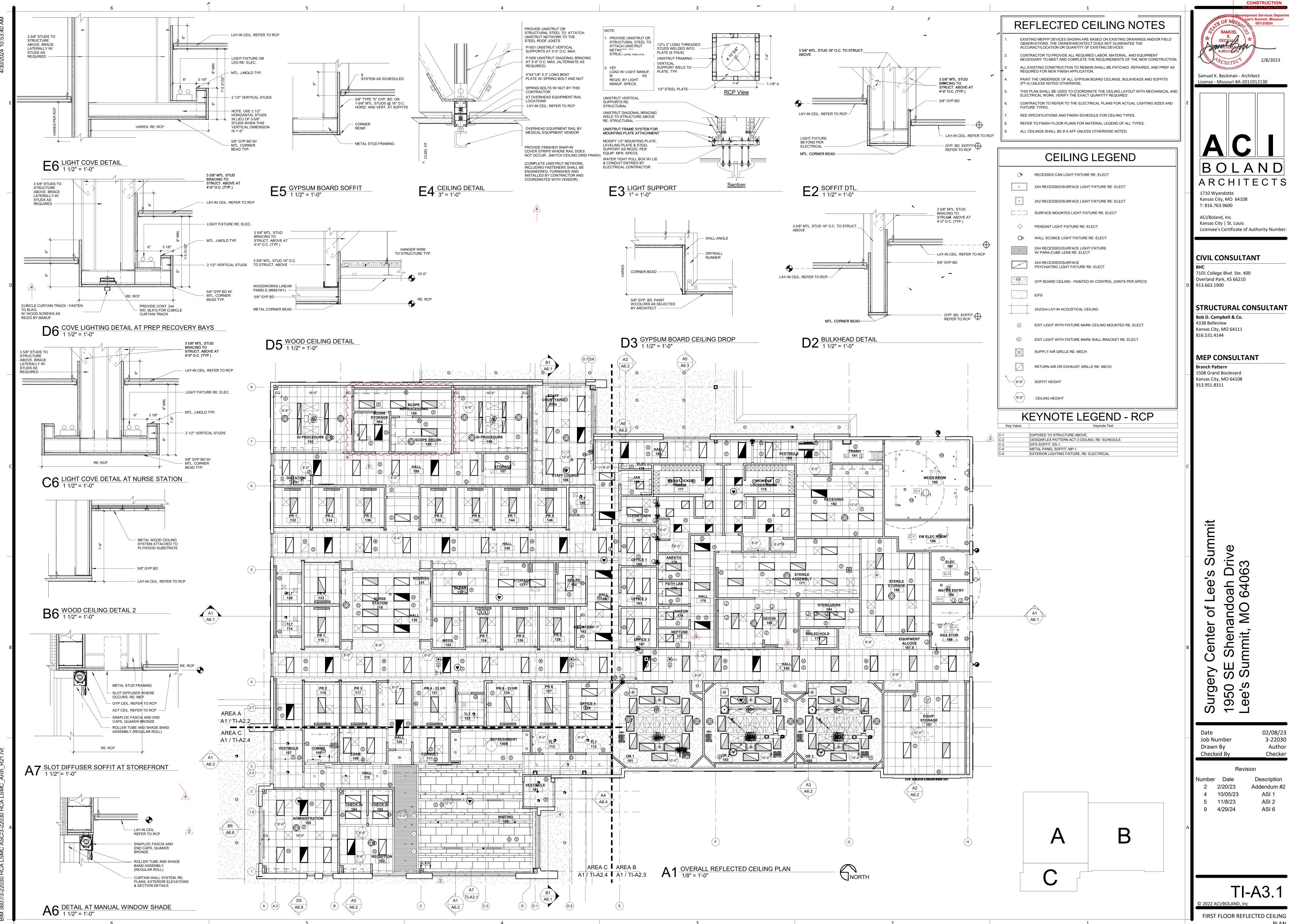
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ASI 2 ASI 6

TI-A2.4

ENLARGED ANNOTATION PLAN -AREA C





Development Services Depart
Lee's Summit, Missouri
05/13/2024

SAMUEL
RECKM
A-201100 So

2/8/2023

Samuel K. Beckman - Architect

License - Missouri #A-2011012130

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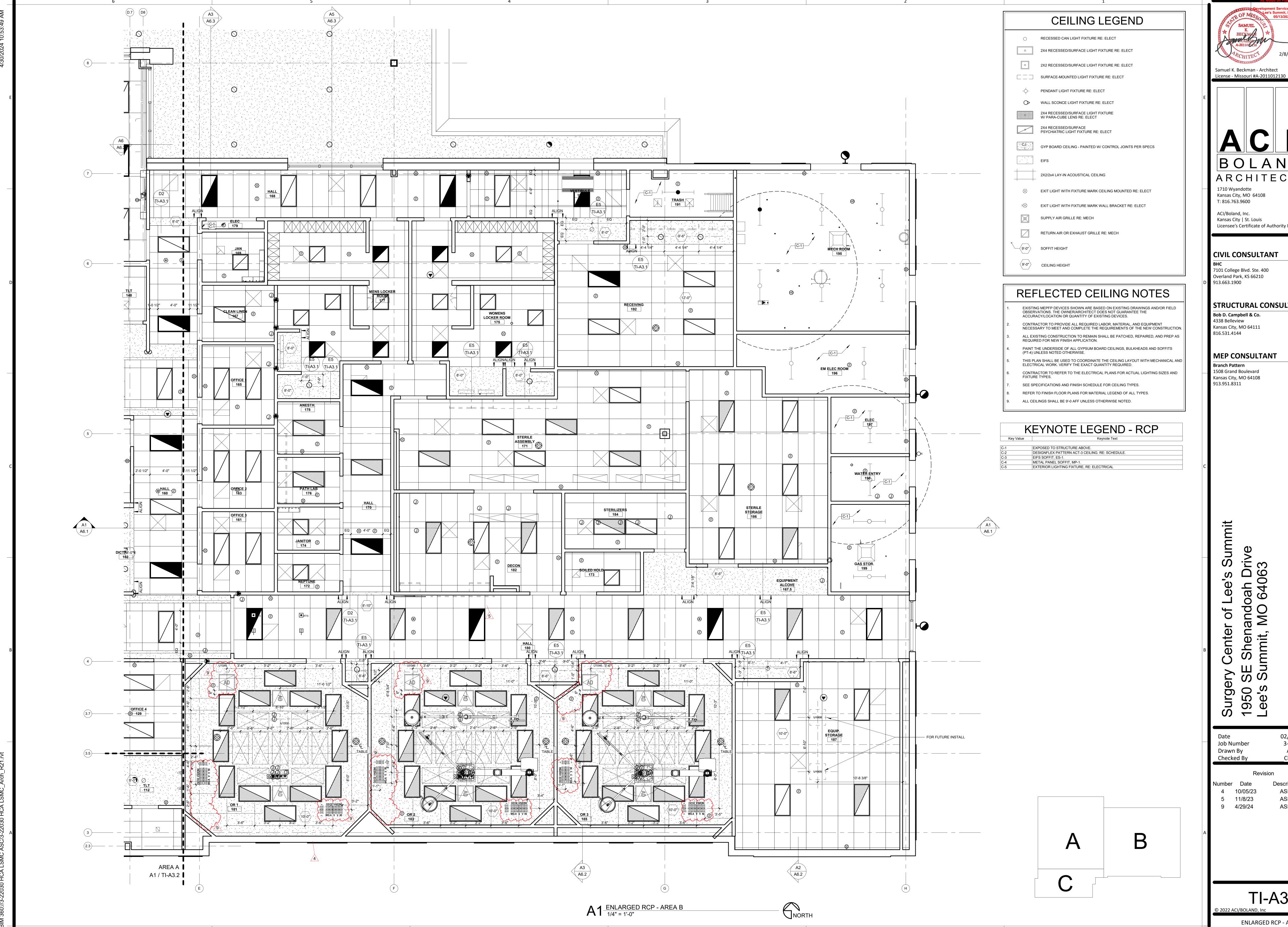
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Description
Addendum #

2 2/20/23 Addendum #2 5 11/8/23 ASI 2 9 4/29/24 ASI 6

TI-A3.2

ENLARGED RCP - AREA A



Samuel K. Beckman - Architect

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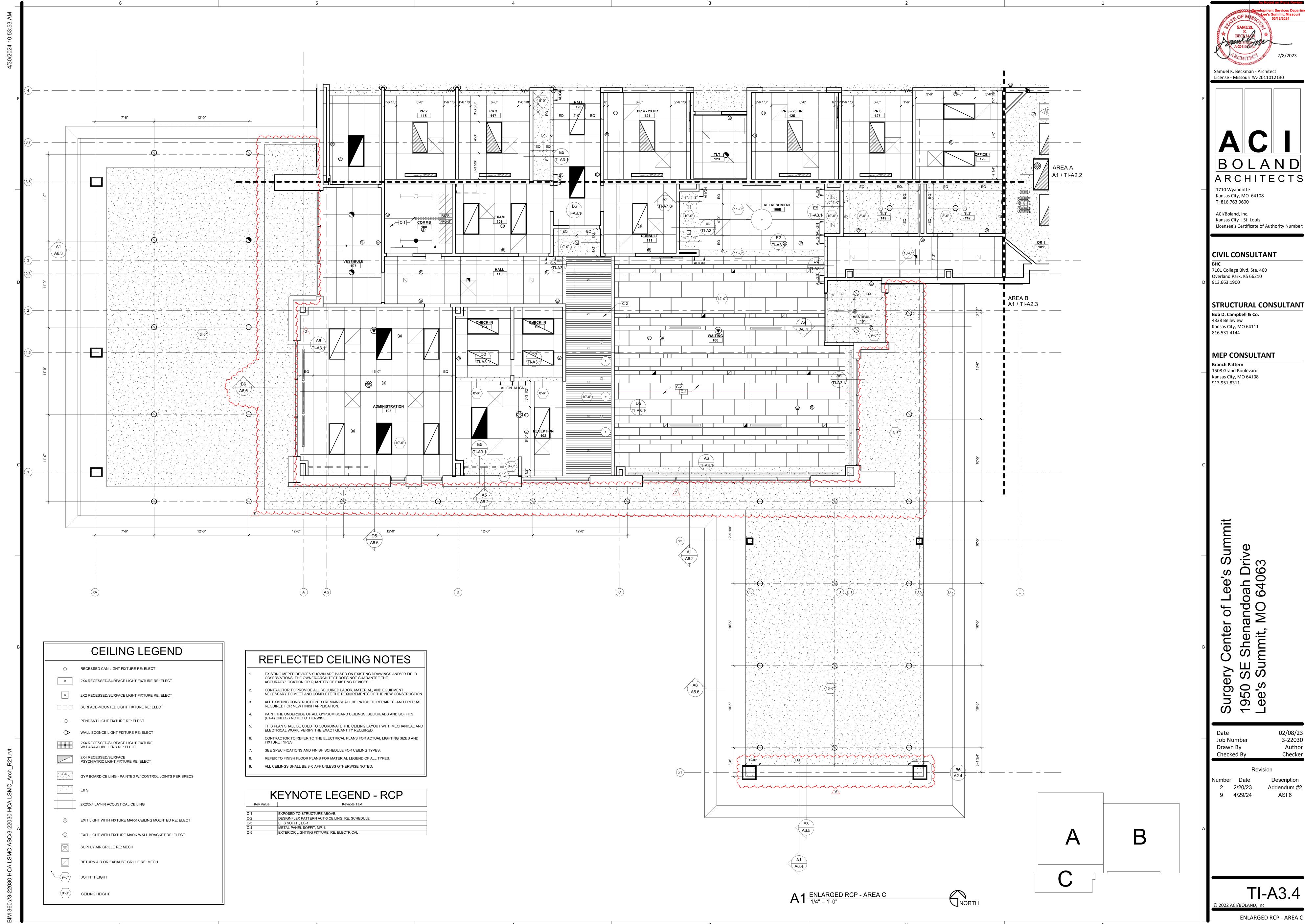
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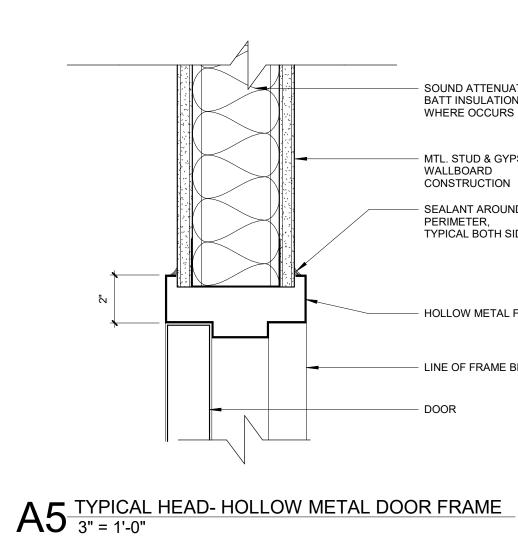
9 4/29/24

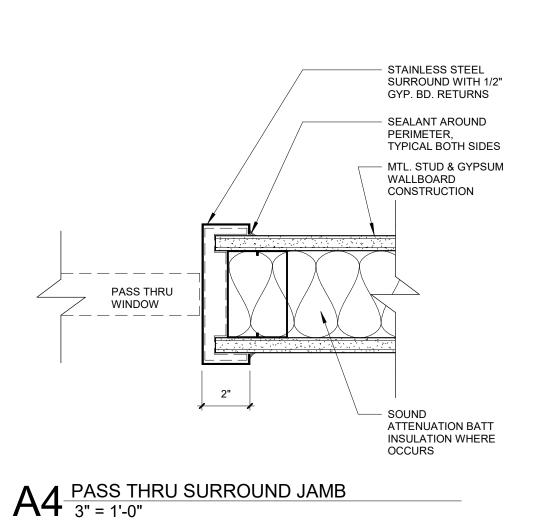
TI-A3.3

ENLARGED RCP - AREA B



BOLAND ARCHITECTS





DOOR SCHEDULE - TI INFORMATION DETAIL NO. OF UNEQUAL | WIDTH | HEIGHT | LEAVES | LEAF WIDTH | ELEV. | MATL. | ELEV. | MATL. | GLAZING | (MIN) | HARDWARE SET | HEAD | JAMB REMARKS **ROOM NAME** TI; CARD READER 103 CHECK-IN 104 CHECK-IN I; CARD READER 105 ADMINISTRATION I; CARD READER 109.1 EXAM I; CARD READER 11 CONSULT TI; CARD READER 11.1 CONSULT TI; CARD READER 21 PR 4 - 23 HR TI; INTEGRAL BLINDS ALUM I; CARD READER R ALUM 125 PR 5 - 23 HR TI; INTEGRAL BLINDS 129 OFFICE 4 135 CLEAN 137 STORAGE TI; AUTO OPERATOR 152 GI PROCEDURE Delayed Retentions Hold Open; 4x4 Plate, SST Edge Protection 153 SCOPE DECON 45 min 🗸 154.1 SCOPE STORAGE 155 SCOPE REPROCESSING 156 GI PROCEDURE I; Delayed Retentions Hold Open; 4x4 Plate, SST Edge Protection 157 STORAGE 161 OFFICE 3 161B OFFICE 3 TI; INTEGRAL BLINDS 163 OFFICE 2 45 min 07 164 SOILED 165 OFFICE 1 166.1 STAFF LOUNGE 167 CLEAN LINEN 71.1 STERILE ASSEMBLY 1.2 STERILE ASSEMBLY 45 min 0 TI; No Closure On Door 2 NEPTUNE 174 JANITOR 5.1 WOMENS LOCKER ROOM 3'-0" 7'-0" 75.2 WOMENS LOCKER ROOM 3'-0" 176 PATH LAB 7.1 MENS LOCKER ROOM 7.2 MENS LOCKER ROOM 78 ANESTH. TI; AUTO OPERATOR I: Delayed Retentions Hold Open; 4x4 Plate, SST Edge Protection 181B OR 1 TI; INTEGRAL BLINDS

# DOOR AND HARDWARE NOTES

ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL TOOLS, A KEY, SPECIAL KNOWLEDGE OR EFFORT. DOUBLE KEYED DEAD BOLTS ARE PROHIBITED. ALL HARDWARE SHALL BE IN COMPLIANCE WITH ADA GUIDELINES AND NATIONAL BUILDERS HARDWARE ASSOCIATION STANDARDS.

HARDWARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

7', 8', OR 9' PACKAGE WIDTH

ELECTRICAL FEED

PER DOOR MANUF

INTERIOR

EXTERIOR

CLEAR DOOR WIDTH

EMERGENCY BREAKOUT SLIDING DOOR -

AUTOMATIC TELESCOPIC SLIDING DOOR

3 PANEL

CASED OPENING

7

GLAZING RE:

SCHED. -

WITH STOPS (TYP) —

VISION PANEL

DOUBLE DOOR

MASONRY FRAME

5

**VISION PANEL** 

MASONRY | '

4

DOOR & FRAME MAT'L LEGEND ALUMINUM ALUM

**HOLLOW METAL** SOLID CORE WOOD FRP FIBER REINFORCED PANEL TEMPERED

GLAZING LEGEND GL-1 TEMPERED GLASS GL-2 LAMINATED GLASS GL-3 FIRE PROTECTION RATED GLASS FIRE RESISTANT RATED GLASS GL-4 GL-5 **BUTT-GLAZED GLASS PANELS** IGU-1 DOUBLE-GLAZED INSULATING IGU-2 DOUBE-GLAZED INSULATING GLASS UNIT (TEMPERED) IGU-3 DOUBE-GLAZED INSULATING GLASS UNIT (LAMINATED) IGU-4 DOUBE-GLAZED INSULATING GLASS UNIT (SPANDREL)

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SAMUEL

BECKMAN A-20110 CS0

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Job Number Drawn By Checked By

Description Addendum #2 Addendum #3 ASI 1

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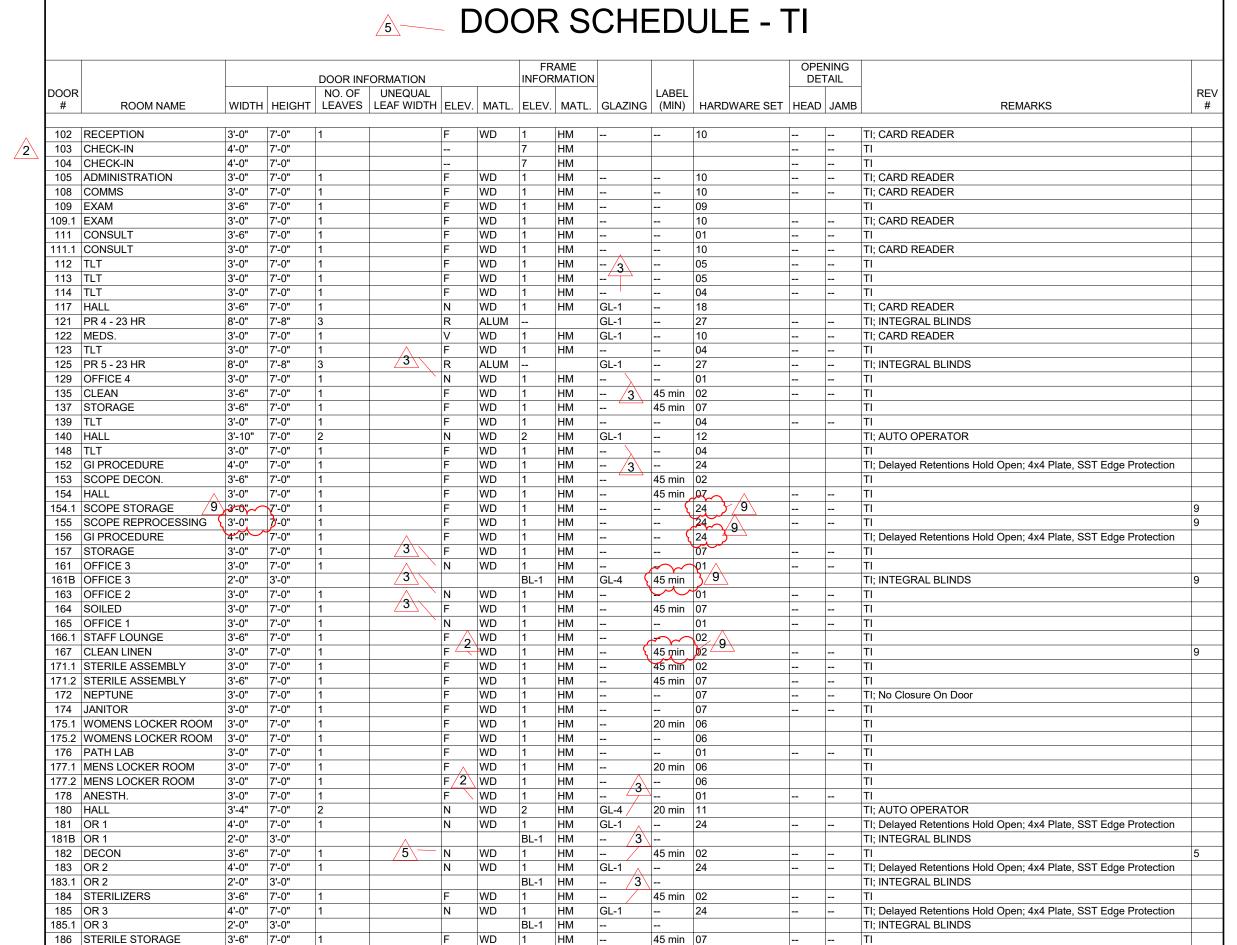
Author

Checker

2/20/23 3/9/23 10/05/23 ASI 2 11/8/23 9 4/29/24

TI-A4.1

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- LOCATION OF PANIC HARDWARE

REQUIRED

**DOOR ELEVATIONS:** 

FRAME <u>ELEVATIONS</u>:

FLUSH

(1)

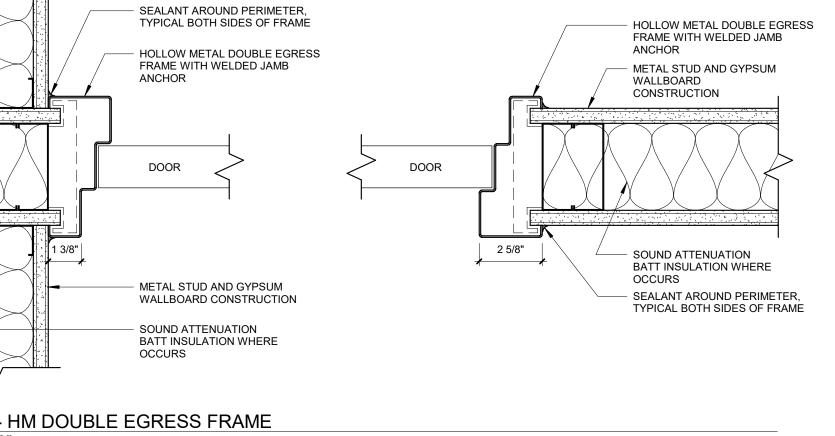
FGN

**FULL LIGHT** 

DOUBLE DOOR

2

TI; Delayed Retentions Hold Open; 4x4 Plate, SST Edge Protection



LINE OF FRAME BELOW

- HOLLOW METAL FRAME

- METAL STUD & GYPSUM

SOUND ATTENUATION

BATT INSULATION

WHERE OCCURS

WALL WHERE OCCURS - HOLLOW MTL. FRAME

W/ JAMB ANCHOR

WITH JAMB ANCHOR

SEALANT AROUND PERIMETER, TYPICAL BOTH

WALLBOARD

CONSTRUCTION

C6 JAMB - HM DOUBLE EGRESS FRAME 3" = 1'-0"

JAMB- HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT

CORRIDOR

ROOM SIDE

B6 FRAME 3" = 1'-0"

SOUND ATTENUATION

BATT INSULATION WHERE

METAL STUD AND GYPSUM

WALLBOARD CONSTRUCTION

BOXED HEADER FOR FRAMES

SEALANT AROUND PERIMETER,

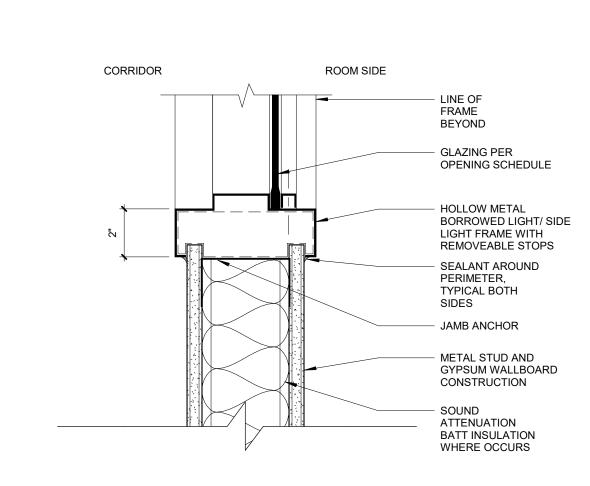
TYPICAL BOTH SIDES OF FRAME

OVER 4'-0" WIDE

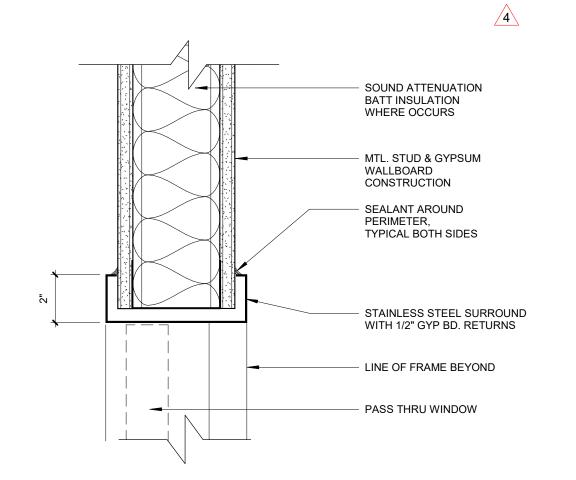
- HOLLOW METAL DOUBLE EGRESS

LINE OF FRAME BEYOND

D6 HEAD - HM DOUBLE EGRESS FRAME 3" = 1'-0"

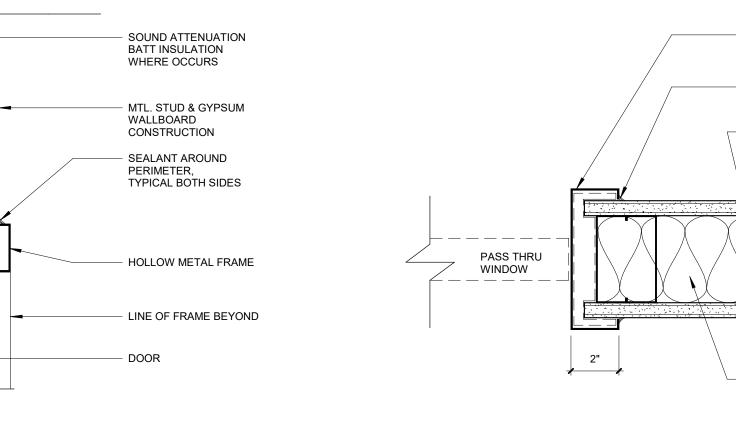


SILL- HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT B5 FRAME 3" = 1'-0"



187 EQUIP. STORAGE

B4 PASS THRU SURROUND HEADER 3" = 1'-0"



DOOR AND FRAME SCHEDULE AND DETAILS MARK

CONCRETE SEALER

PORCELAIN FLOOR TILE

LUXURY VINYL TILE

LUXURY VINYL TILE

CPT-1

RSF-1

RSF-3

PT-5

MANUFACTURER

MANNINGTON

DALTILE

SUBTEXT 5T409

SPACIA ABSTRACT

ARTICULO AR09, MATTE FINISH

AMTICO WOOD

ALL FACES AND UNDERSIDES OF SOFFITS AND HEADERS TO BE PT-1 UNLESS OTHERWISE NOTED WALL EXPANSION JOINTS TO BE PT-1 UNLESS OTHERWISE NOTED

ALL ELECTRICAL PANELS AND METAL GRILLES SHALL BE PTD TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED ALL COLUMN SURROUND FINISHES TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED WHERE A WALL IS INDICATED TO HAVE PARTIAL OR FULL HT WALL PROTECTION, THE ENTIRE WALL IS TO BE PTD PRIOR TO WALL PROTECTION INSTALLATION EXTEND ALL FINISHES BENEATH, BEHIND, AROUND ALL CASEWORK, EQUIPMENT, SIGNAGE, ETC

ALL WINDOW SILLS TO BE SSF-1 ALL SST SINKS, RE: MEP WOOD DOORS TO BE CLAD AND FINISHED IN PLAM-1

SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.

SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL NO IRREGULARITIES OR IMPERFECTIONS SHALL BE PRESENT IN ANY OF THE MATERILA BEING INSTALLED. IF SUCH ITEMS ARE IDENTIFIED DURING APPLICATION, WORK SHALL BE STOPPED AND THE ARCHITECT

PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF PROJECT. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS. ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.. ALL MATERIAL TO COMPLY WITH FLAME STREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT

REFER TO TYPICAL WALL PROTECTION ELEVATION FOR INFORMATION ON WALL PROTECTION, CORNER GUARDS, CRASH RAILS, AND BUMPER RAILS. REFER TO FINISH SCHEDULE, FINISH PLAN, AND INTERIOR

SPECIFIC ROOM FINISH SCHEDULE NOTES

QTZ-1 TO BE USED ON TRASACTION TOP, SSF-1 TO BE USED ON WORKSURFACE TOP. FULL HEIGHT WALL PROTECTION.

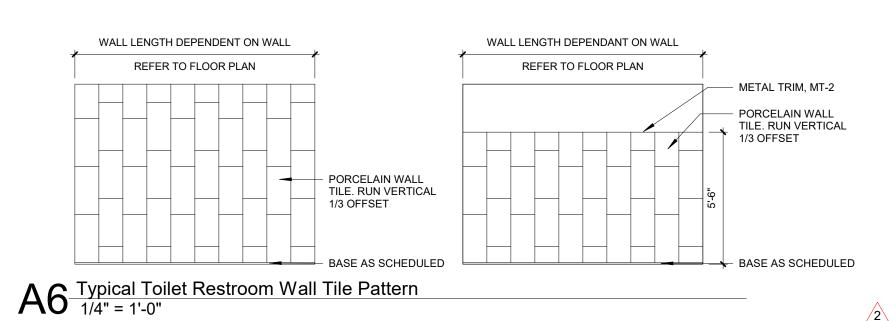
REFER TO TYPICAL PORCELAIN WALL TILE PATTERN ELEVATIONS, RE: A4.2 INSTALL PLYWOOD BLOCKING ON ALL WALLS FOR EQUIPMENT MOUNTING.

FINISHES IN THIS ROOM SHALL BE PART OF THE CORE/SHELL PACKAGE. REFER TO CERAMIC WALL TILE PATTERN ELEVATIONS, RE: A4.2.

CENTER RSF-2 UNDER OR TABLE.

WALL LENGTH DEPENDENT ON WALL REFER TO FLOOR PLAN METAL TRIM CERAMIC WALL TILE, HORIZONTAL 1/3 OFFSET INSTALLATION BASE AS SCHEDULED HALF HEIGHT WALL TILE

B6 TYPICAL SCRUB ALCOVE TILE PATTERN
1/4" = 1'-0"



INTERIOR FINISH LEGEND MODEL/ PATTERN LISTEN 05100

MANOR OAK AROW7970

COLUMN GRAY

SOFTLINE PEBBLE SS5A3802

18" X 18"

ASHLAR INSTALLATION

ASHLAR INSTALLATION

STAGGERED INSTALLATION

1/3 OFFSET INSTALLATION

SHEET VINYL MANNINGTON BIOSPEC ARMOR HUSH OR111 USE MATCHING HEAT WELD ROD SHEET VINYL MANNINGTON BIOSPEC ARMOR PISTACHIO OR110 USE MATCHING HEAT WELD ROD SHEET VINYL MANNINGTON ASSURANCE III TRAIL 16352 USE MATCHING HEAT WELD ROD RSF-4 MANNINGTON BIOSPEC ARMOR CHERRY TOMATO OR108 USE MATCHING HEAT WELD ROD SHEET VINYL TRANSITION STRIP MANNINGTON 633 TILE REDUCER 701 BLACK RE: TRANSITION DETAILS SCHLUTER SATIN ANODIZED ALUMINUM RE: TRANSITION DETAILS TRANSITION STRIP SCHIENE TRANSITION STRIP SCHLUTER SATIN ANODIZED ALUMINUM RE: TRANSITION DETAILS WALK OFF CARPET SHAW CONTRACT PORTAL TILE 5T035 STERLING 34557 ASHLAR INSTALLATION INTEGRAL BASE MANNINGTON BIOSPEC ARMOR HUSH OR111 6" COVE TO BE USED WITH RSF-1. METAL COVE BASE CAP W/ 45 DEGREE SEALANT AT THE TOP W/ 45 DEGREE SEALANT AT THE TOP ASSURANCE III 6" COVE INTEGRAL BASE MANNINGTON TO BE USED WITH RSF-3. METAL COVE BASE CAP W/ 45 DEGREE SEALANT AT THE TOP METAL BASE SCHLUTER DILEX-AHK SATIN ANODIZED ALUMINUM COVE SHAPE PROFILE BURKEBASE, TYPE TP 4" COVE WITH TOE RESILIENT BASE MANNINGTON ROLLED GOODS CLAY 527 RESILIENT BASE MANNINGTON EDGE EFFECTS, ETCHED MITER CORNERS BUMPER RAIL RE: FINISH SCHEDULE, FINISH PLAN AND INTERIOR ELEVATIONS FOR LOCATIONS INPRO CORPORATION 1300 WALL GUARD WHITE SAND 0103 160BN BLUNOSE SURFACE MOUNT 2" WING, FULL HEIGHT CORNER GUARD INPRO CORPORATION WHITE SAND 0103 90 DEGREE CORNER GUARD INPRO CORPORATION 160BN BLUNOSE HIGH IMPACT END WALL PROTECTOR WHITE SAND 0103 2" WING, FULL HEIGHT 90 DEGREE WHITE SAND 0103 CRASH RAIL INPRO CORPORATION 1600 WALL GUARD PATTERN TO RUN HORIZONTALLY WHEN INSTALLED. STACKED BOND. 2 CWT-1 CERAMIC WALL TII GARDEN STATE TILE DISTRICT BOERUM HILL, ADWICK 12" X 16" PICKET CERAMIC WALL TILE PLATFORM SURFACES MLW MAYFAIR PATTERN TO RUN HORIZONTALLY WHEN INSTALLED. 1/3 OFFSET. SATIN ANODIZED ALUMINUM TO BE USED AT ALL EXPOSED EDGES OF WALL TILE METAL TRIM SCHLUTER SHERWIN-WILLIAMS EGGSHELL FINISH AESTHETIC WHITE SW7035 OVERALL COLOR OVERALL COLOR SHERWIN-WILLIAMS **EPOXY FINISH** AESTHETIC WHITE SW7035 PT-1B PT-2 PT-3 FLAT FINISH AESTHETIC WHITE SW7035 SHERWIN-WILLIAMS OVERALL CEILING COLOR SHERWIN-WILLIAMS EGGSHELL FINISH COLONNADE GRAY SW7641 ACCENT COLOR PAINT SHERWIN-WILLIAMS SEMI-GLOSS FINISH KEYSTONE GRAY SW7504 ALL HOLLOW METAL DOOR AND WINDOW FRAMES PT-4 PT-4A SHERWIN-WILLIAMS EGGSHELL FINISH RAINWASHED SW6211 ACCENT COLOR SHERWIN-WILLIAMS FPOXY FINISH RAINWASHED SW6211 ACCENT COLOR SHERWIN-WILLIAMS IRON ORE SW7069 STAFF COURTYARD GATE POSTS RE: SPECS 1/3 OFFSET INSTALLATION PORCELAIN WALL TILE DALTILE ARTICULO AR06, MATTE FINISH EDITORIAL WHITE RIGID SHEET INPRO CORPORATION 4' X 8' SHEET, .060" THICK USE WITH MATCHING TRIM PIECES WALL PORTECTION WHITE SAND 0103 AV1513 RECTANGULAR ADA RAMP VANITY 17-1/2" X 15-3/8" X 5-1/4" RE: ROOM FINISH SCHEDULE INTEGRAL SINK WILSONART CALM WHITE RE: ROOM FINISH SCHEDULE INTEGRAL SINK WILSONART AD1630 EQUAL DOUBLE BOWL CALM WHITE 32-1/16" X 16-5/8" X 9-1/8" WILSONART INTEGRAL SINK **AV1812 RECTANGULAR VANITY** CALM WHITE 19-5/8' X 14-3/4" X 6-7/8" RE: ROOM FINISH SCHEDULE PLASTIC LAMINATE WILSONART PALISADES OAK 4' X 8' SHEET USE MATCHING 3MM EDGE BANDING QUARTZ WILSONART CALACATTA VOLEGNO 3CM THICK EASED EDGES YUKON RIVERSTONE 9196RS SOLID SURFACE WILSONART 1/2" THICK EASED EDGES STAINLESS STEEL RE: INTERIOR ELEVATIONS AND PLANS FOR LOCATIONS. TACK BOARD **GUILFORD OF MAINE** ANCHORAGE 2335 QUARRY BLUE 2026 ACOUSTIC CEILING TILE ARMSTRONG CEILINGS FINE FISSURED 1755 15/16" SQUARE LAY-IN & 15/16" PRELUDE SUSPENSION SYSTEM

ACOUSTIC CEILING TILE ARMSTRONG CEILINGS CLEAN ROOM VL UNPERFORATED 970 15/16" SQUARE LAY-IN & ALUMINUM CLEAN ROOM SUSPENSION SYSTEM, GASKETED GRID ACOUSTIC CEILING TILE DESIGNFLEX SQUARES AND RECTANGLES; ULTIMA TEGULAR 1422 9/16" BEVELED TEGULAR W/ 9/16" SUPRAFINE SUSPENSION SYSTEM, BLIZZARD WHITE ARMSTRONG CEILINGS 6" X 48", 12" X 48", 24" X 48" WOOD CEILING ARMSTRONG CEILINGS WOODWORKS VENEER 6690W1 IN NATURAL VARIATIONS 24" X 96" NOMINAL 4" WIDE PLANKS WITH 3/4" REVEAL 15/16 EDGE ACRYLIC PANEL RE: INTERIOR ELEVATIONS SATIN FINISH. SANDED & MATTE EASED EDGE PHOENIX TEXTILE CARIBBEAN #6 CUBICLE CURTAIN AQUIFER-X RE: FLOOR PLANS & RCP USE WITH WHITE MESH. CUBICLE CURTAIN TRACK INPRO CORPORATION WHISPER CUBE RE: RCP KERAPOXY SHOWER BASE INPRO CORPORATION BIOPRISM SOLID SURFACE SHOWER RECEPTOR - STANDARD ADA RE: FLOOR PLANS & RCP USE WITH WHITE MESH SHOWER CURTAIN INPRO CORPORATION SHOWER CURTAIN ROD INPRO CORPORATION STATIONARY ROD SATIN CHROME TOILET PARTITION WILSONART COMPACT LAMINATE PALISADES OAK WOLF GORDAN USED AT SEAT CUSHION OF REFRESHMENT BOOTH UPHOLSTERY GOH 32505921 EDEN UPHOLSTERY LUUM TEXTILES PALE SHADOW 4063-03 USED AT SEAT BACK OF REFRESHMENT BOOTH MECHO 5 STANDARD BRACKET, MANUAL SINGLE REGULAR ROLL SHADE W/ FASCIA, CEILING FASCIA: QUAKER BRONZE; LOCATED AT ALL WINDOWS WINDOW TREATMENT MECHOSHADE SHADECLOTH:THERMOVEIL 1700 | ALONG EXTERIOR WALL. RE: GRAY 1% OPENNESS

ROOM FINISH SCHEDULE FLOOR FINISH BASE FINISH CABINETS CABINETS COUNTERTOPS SINKS NOTES NUMBER ROOM NAME LVT-1, CPT-1 SSF-1 QTZ-1 VESTIBULE CHECK-IN CHECK-IN ADMINISTRATION VESTIBULE PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/CWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1/ WP-1 PT-4/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 PT-4/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/WP-1/BR-1/CR-1 PT-1 PT-4/WR-1 9 PT-1/WP-1 PT-1/WP-1 PT-1/ WP-1 PT-1/WP-PT-1/WP-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-4/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/ WP-1 PT-4/WP-1 PT-4/WP-1 PT-1/ WP-PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 PT-4/WP-1 PT-1/ WP-1 PT-4/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 PT-4/WP-1 PT-1/WP-1 PT-1/ WP-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1/ WP-1 PT-1/WP-1 PT-4/WP-PT-1/ WP-1 PT-1/ WP-1 PT-1/WP-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1/WP-1/BR-1/ PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 GI PROCEDURE PT-4A/WP-1 PT-1A/WP-1 PT-1A/WP-1 SCOPE DECON. PT-1A/WP-1 PT-1A/WP-1 SCOPE STORAG PT-1A/WP-1 SCOPE REPROCESSING PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1AWP-1 PT-1AWP-1 9
PT-1WP-1 9 GI PROCEDURE PT-1A/WP-1 PLAM-1 PLAM-1 SSF-1 PT-4A/WP-1 PT-1/WP-1/BR-1 /CR-1 PT-1/WP-1/BR-1/CR-1 PT-1/WP-1/BR-1/CR-1 PT-1/WP-1/BR-1/CR-1 OFFICE 2 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 STAFF LOUNGE PT-1/CWT-1 CLEAN LINEN PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1/WP-1 **EQUIPMENT ALCOVE** PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/BR-1/CR-1 PT-1/WP-1/BR-1 /CR-1 PT-1/WP-1/BR-1/CR-1 PT-1/WP-1/BR-1/CR-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/ WP-1 PT-1/WP-1 PT-1/WP-1 PT-1/WP-1 WOMENS LOCKER ROOM MT-1,PFT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1A/PWT-1/CWT-1 PT-1A, PWT-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/CWT-1/PWT-1 PLAM- 1 ACT-1/PT-1B MT-1,PFT-1 PT-1A/PWT-1 PT-1A/PWT-1 PT-1, PWT-1 MENS LOCKER ROOM ACT-2 PT-1A/WP-1 PT-1A/WP-1/CR-1 PT-1A/WP-1/CR-1 PT-1A/CWT-2 PT-1A/WP-1 PT-1A/CWT-2 PT-1A/WP-1 SCRUB SINK PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 STERILIZERS PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 PT-1A/WP-1 EQUIP. STORAGE STRETCHER ALCOVE PT-1A/WP-1 PT-1A/WP-1 VESTIBULE PT-1/ WP-1 PT-1/WP-1 PT-1/WP-1 PT-1A/WP-1 EXPOSED PT-1A/WP-1 PT-1A/WP-1 PLAM- 1 SSF-1 PT-1/WP-1 PT-1/WP-1 EXPOSED MECH ROOM EM ELEC ROOM EXPOSED EXPOSED WATER ENTRY EXPOSED

Samuel K. Beckman - Architect

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Addendum #2 ASI 1 9 4/29/24

ROOM FINISH SCHEDULE & FINISH

TYPE MARK BLOCKING AS REQUIRED CLEAN AGENT TYPE. 9 FIRE EXTINGUISHER CABINET WALL MOUNTED PHONE POWER AND DATA REQUIRED POWER REQUIRED EQUIPMENT BOOM CLOCK, ELECTRIC TABLE, DIAPER CHANGING, WALL MOUNTED BLOCKING AS REQUIRED FOLDING SHOWER SEAT BLOCKING AS REQUIRED NARCO BOX HAND SANITIZER 9 A50822 PAPER TOWEL, RECESSED
A5082a PAPER TOWEL, SURFACE MOUNT
DISPOSAL, SANITARY NAPKIN RECESSED MOUNT, RE: SPECS GLOVE DISPENSER GRAB BAR, HORIZONTAL 36" BLOCKING AS REQUIRED GRAB BAR, HORIZONTAL, 42" BLOCKING AS REQUIRED GRAB BAR, VERTICAL, 18" BLOCKING AS REQUIRED GRAB BAR, HORIZONTAL, L SHAPED, 18" X 33" BLOCKING AS REQUIRED UTILITY SHELF BLOCKING AS REQUIRED GARMENT HOOK COAT HOOK BLOCKING AS REQUIRED MOP SHELF ROD, SHOWER CURTAIN BLOCKING AS REQUIRED CUBICLE CURTAIN W/ TRACK DIVISION PANEL DISPENSER, TOILET PAPER, 2 ROLL BLOCKING AS REQUIRED TV WALL BRACKET, ADJUST ARM BLOCKING AS REQUIRED 3 TV WALL BRACKET BUMPER GUARD DESKING SYSTEM SHELVING, BIN STORAGE, SLAT WALL MOBILE WORKSTATION GENERAL STORAGE CART CART STORAGE SIDE CHAIR, W/ ARMS CHAIR, LOUNGE CHAIR, RECLINER CHAIR, TASK, SWIVEL, W/ ARMS CHAIR, WAITING ROOM, BARIATRIC FOOTSTOOL LATERAL FILE TABLE, COFFEE TABLE TABLE TABLE, DINING, BAR HT INTEGRATED POWER STEP TRASHCAN TRASH CAN, 44 GAL TABLE, BAR HT. POWER REQUIRED COFFEE MAKER DETERGENT DOSING SYSTEM WATER AND POWER REQUIRED, RE:MEP DISHWASHER MICROWAVE POWER REQUIRED MICROSCOPE CENTRIFUGE CRYOSTAT POWER REQUIRED POWER AND DATA REQUIRED TELEVISION, 55" POWER AND DATA REQUIRED TELEVISION, 65" COMPUTER PROVIDE BLOCKING FOR WALL BRACKET, POWER & DATA REQ'D RE: ELEC. WORKSTATION, WALL MOUNTED POWER AND DATA REQUIRED CREDIT CARD POWER REQUIRED PRINTER/COPIER/FAX COMBINATION POWER AND DATA REQUIRED WIRE SHELVING, 48"Wx18"Dx74"H LINEN HAMPER INFECTIOUS WASTE BIN INFECTIOUS WASTE BIN, STEP-ON POWER REQUIRED BLANKET WARMER SCOPE DRYING CABINET POWER REQUIRED STAND, IV, ADJUSTABLE INFUSION VOLUMETRIC PUMP STRETCHER STRETCHER, RECOVERY, SURGICAL WHEELCHAIR COUNTERTOP SCANNER VITALS SIGN MONITOR PROVIDE BLOCKING, POWER & DATA REQ'D RE: ELEC. ENDOSCOPY CART ANESTHESIA CART MAYO STAND CARRIAGE, PAIL PAIL, UTILITY OPERATING TABLE SCRUB SINK, DOUBLE SCRUB SINK, SINGLE ICE MACHINE PLUMBING AND POWER REQUIRED, RE:MEP PLUMBING AND POWER REQUIRED, RE:MEP ICE MAKER, 90LB STORAGE PLUMBING AND POWER REQUIRED, RE:MEP COUNTERTOP ICE/WATER MACHINE UC REF. MED GRADE POWER REQUIRED POWER AND DATA REQUIRED, TIED TO BAS. REF. MED GRADE, FULL HEIGHT REF/FR, 20 CU FT POWER REQUIRED POWER, DATA, PLUMBING REQUIRED. RE: VENDOR DRAWINGS & MEP MED. STERILIZER (FUTURE) SMALL. STERILIZER POWER, DATA, PLUMBING REQUIRED. RE: VENDOR DRAWINGS & MEP LOADING CART DISINFECTOR DISINFECTOR POWER REQUIRED, RE: VENDOR DRAWINGS & MEP PASS THRU WINDOW SCOPE REPROCESSOR POWER & PLUBMING REQUIRED, RE: VENDOR DRAWINGS & MEP ULTRASONIC SONIC CLEANER (FUTURE) POWER & PLUMBING REQUIRED, RE: VENDOR DRAWINGS & MEP STERILIZER PLUMBING AND POWER REQUIRED, RE:MEP PLUMBING AND POWER REQUIRED, RE:MEP STERILIZER NEPTUNE NEPTUNE ROVER PLUMBING AND POWER REQUIRED, RE:MEP BACKTABLE SCOPE BUDDY POWER REQUIRED SURGICAL BOOM POWER AND DATA REQUIRED, RE: ELECTRICAL SURGICAL BOOM POWER AND DATA REQUIRED, RE: ELECTRICAL MARKER BOARD PANEL, 24"x36" MARKER BOARD PANEL, 48"x96" POWER REQUIRED SHREDDER MOBILE ADA PHONE POWER AND DATA REQUIRED ENDOSCOPY BOOM POWER REQUIRED POWER REQUIRED SURGICAL LIGHT BOOM, STERIS LIGHT ISOLATION PANEL POWER REQUIRED POWER REQUIRED VERTICAL POWER CONTROL PANEL HARMONY EQUIP BOOM CO2 Controller on Boom WRAPPING STATION RODS PLUMBING AND POWER REQUIRED, RE:MEP ULTRALOAD FREEZER CACTUS SINK NURSE CALL DOME LIGHT POWER REQUIRED SCOPE FILTER MOUNT FLUSH MOUNT. COORDINATE FINAL LOCATION WITH FIRE DEPARTMENT. 3 KNOX BOX SLX RECESS BOX WALL CONTROL COR LITE WALL MOUNTED COR LITE TOUCH PANEL 4 IN 1 WALL PLATE POWER REQUIRED, RE: VENDOR DRAWINGS & MEP SST SHELF, 8"x48" MEDICUS HEALTH, SKU#7314M3 9 U1050 GENERIC BLOCKING APRON RACK MEDICUS HEALTH, SKU#7314M1

FFE SCHEDULE DESCRIPTION

REFER TO INTERIOR ELEVATIONS FOR LOCATIONS.

PROVIDE BLOCKING, VERIFY FINAL LOCATION WITH OWNER

Samuel K. Beckman - Architect

License - Missouri #A-2011012130

CONSTRUCTION

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ACI/Boland, Inc. Kansas City | St. Louis Licensee's Certificate of Authority Number:

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STRUCTURAL CONSULTANT

Bob D. Campbell & Co. 4338 Belleview Kansas City, MO 64111 816.531.4144

MEP CONSULTANT

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Author

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Addendum #2

Addendum #3

9 4/29/24

FFE SCHEDULE

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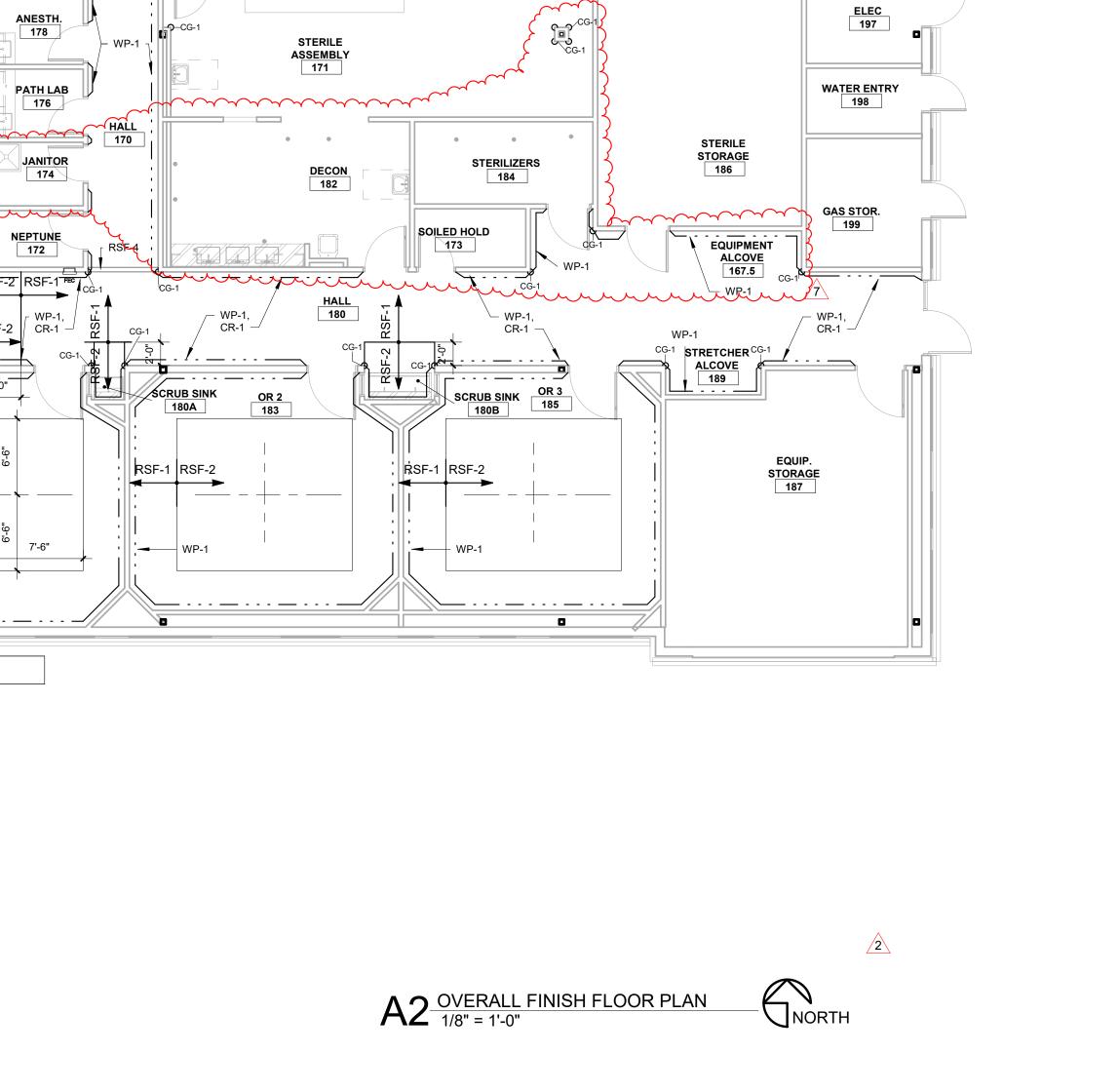
ASI 4

2 2/20/23 Addendum #2 7 2/7/24

WALL TREATMENT FLOOR TRANSITION CORNER GUARD FLOOR FINISH DIRECTION 1. FOR ALL FLOORING TRANSITIONS, REFER TO TYPICAL FLOORING TRANSITION DETAILS ON TI-A7.5, UNLESS OTHERWISE NOTED ON THIS PLAN

FINISH FLOOR PLAN LEGEND

2. THIS FINISH PLAN IS TO BE USED FOR ADDITIONAL LOCATION CLARIFICATION OF FINISHES NOTED IN FINISH SCHEDULE



TRASH 191

RECEIVING 192

\_\_\_\_\_\_\_WP-1

MECH ROOM 195

EM ELEC ROOM
196

A24

PT-4A WP-1

GI PROCEDURE

WP-1, PT-4

VESTIBULE 101

ALIGN

CWT-1

STAFF LOUNGE 166

SOILED 164

BR-1, CR-1 CG-1

MENS LOCKER ROOM 177

FEC

WOMENS LOCKER ROOM 175

—— PT-4A, WP-1

SCOPE WP-1 ——

SCO<u>PE DEC</u>ON.

BR-1, CR-1

✓ WP-1, PT-1

LVT-1 CPT-1

SCOPE STORAGE 154

© CG-1 ...

PT-4A, WP-1

WP-1, PT-4

VESTIBULE 107

ADMINISTRATION

— WP-1, PT-4

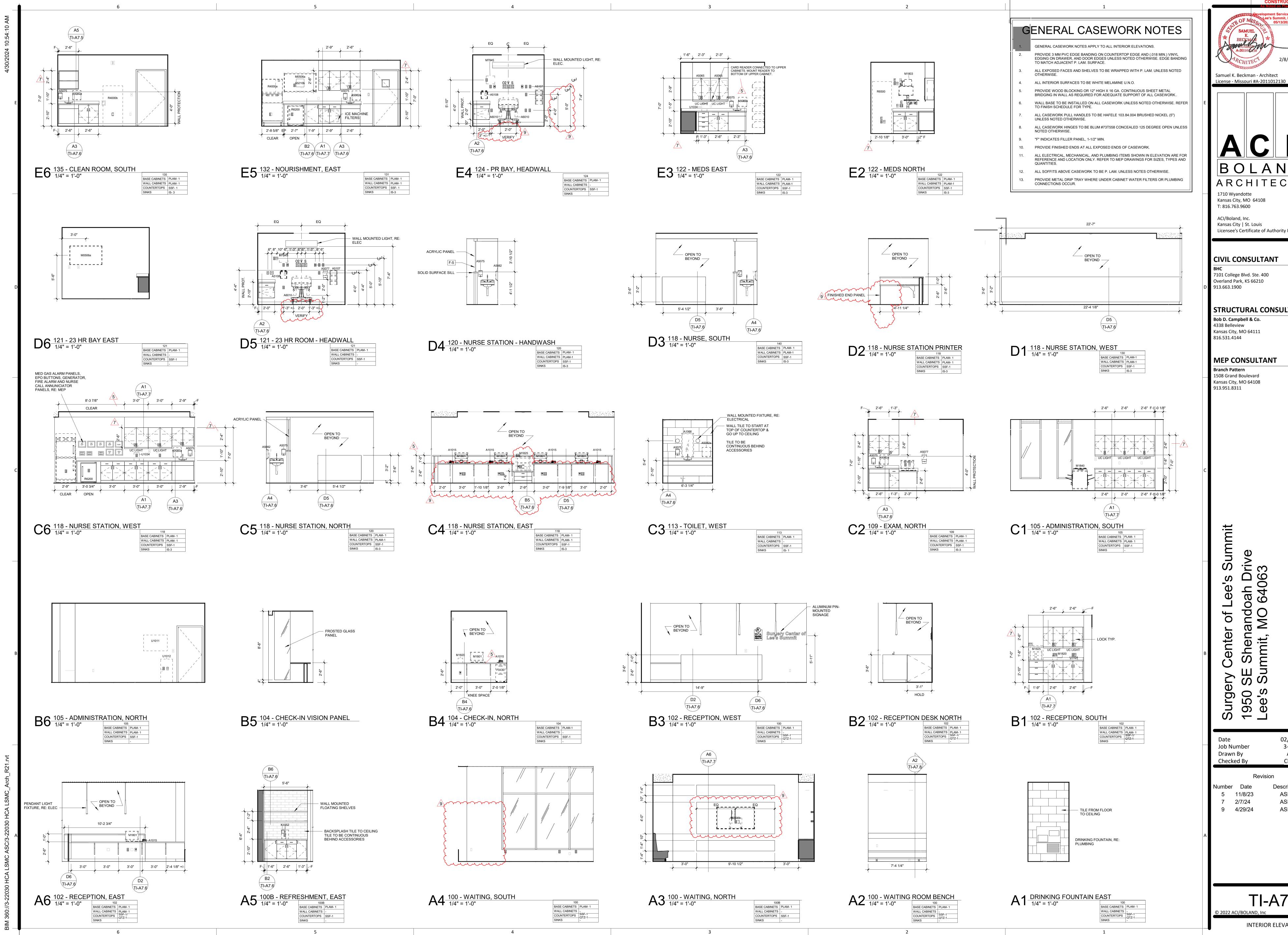
NURSE STATION 118

CHECK-IN CHECK-IN 103

RECEPTION 102

130

OVERALL FLOOR FINISH PLANS



Samuel K. Beckman - Architect

CONSTRUCTION

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STRUCTURAL CONSULTANT Bob D. Campbell & Co.

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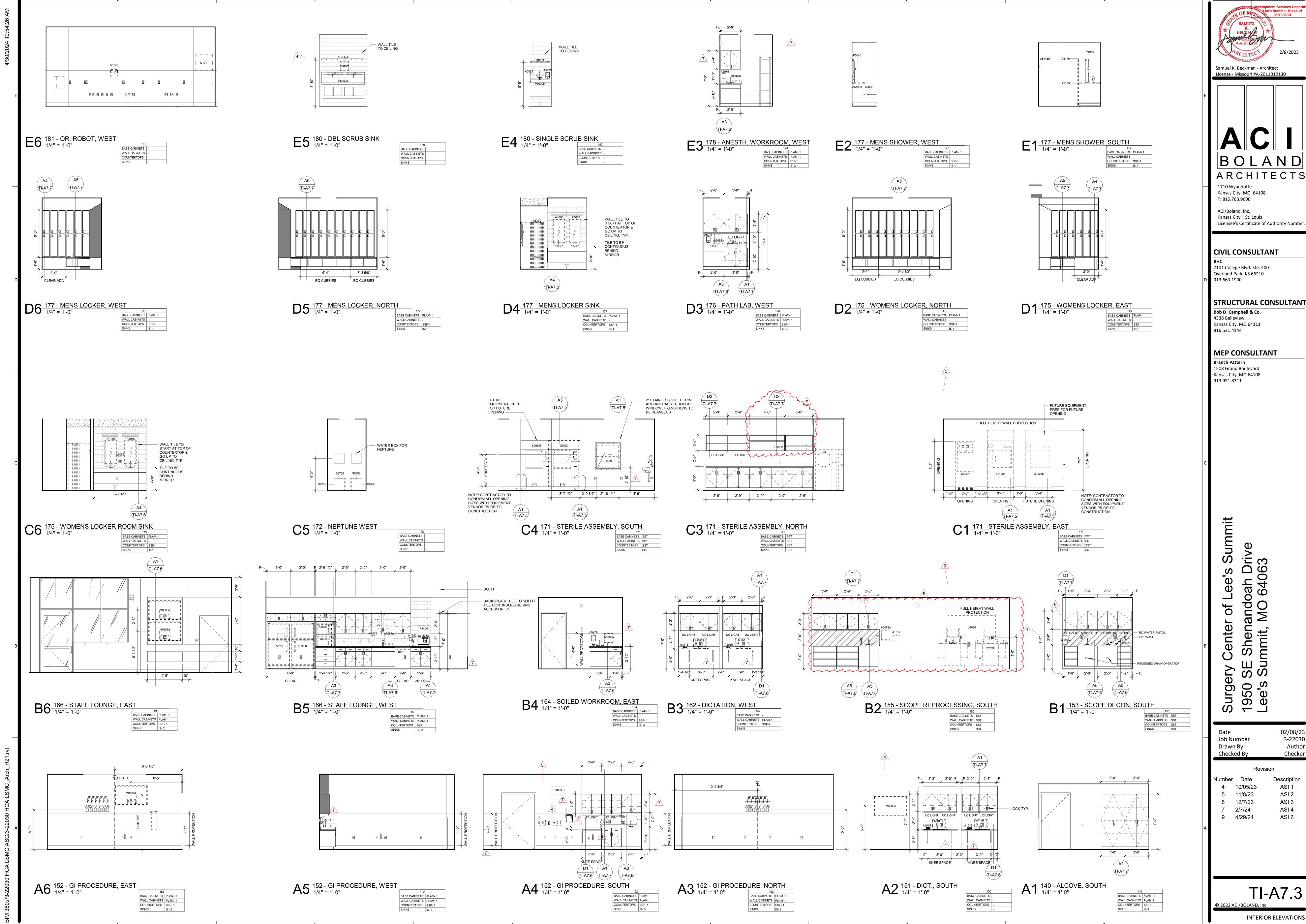
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ASI 2 2/7/24 ASI 4 ASI 6

ΓI-A7.2

INTERIOR ELEVATIONS



BOLAND ARCHITECTS

STRUCTURAL CONSULTANT

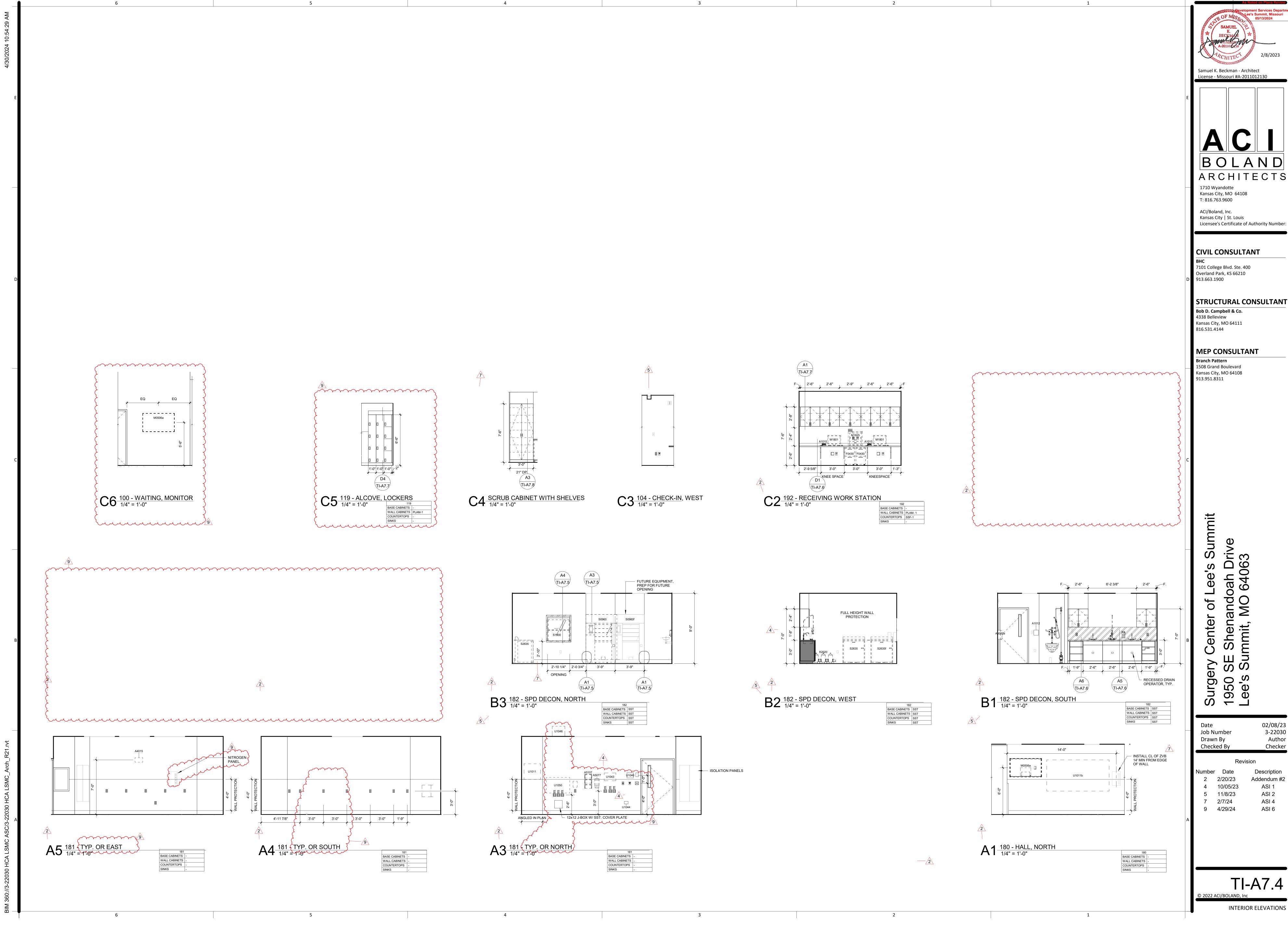
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ASI 1 ASI 2 ASI 3 ASI 4

ASI 6

ΓI-A7.3

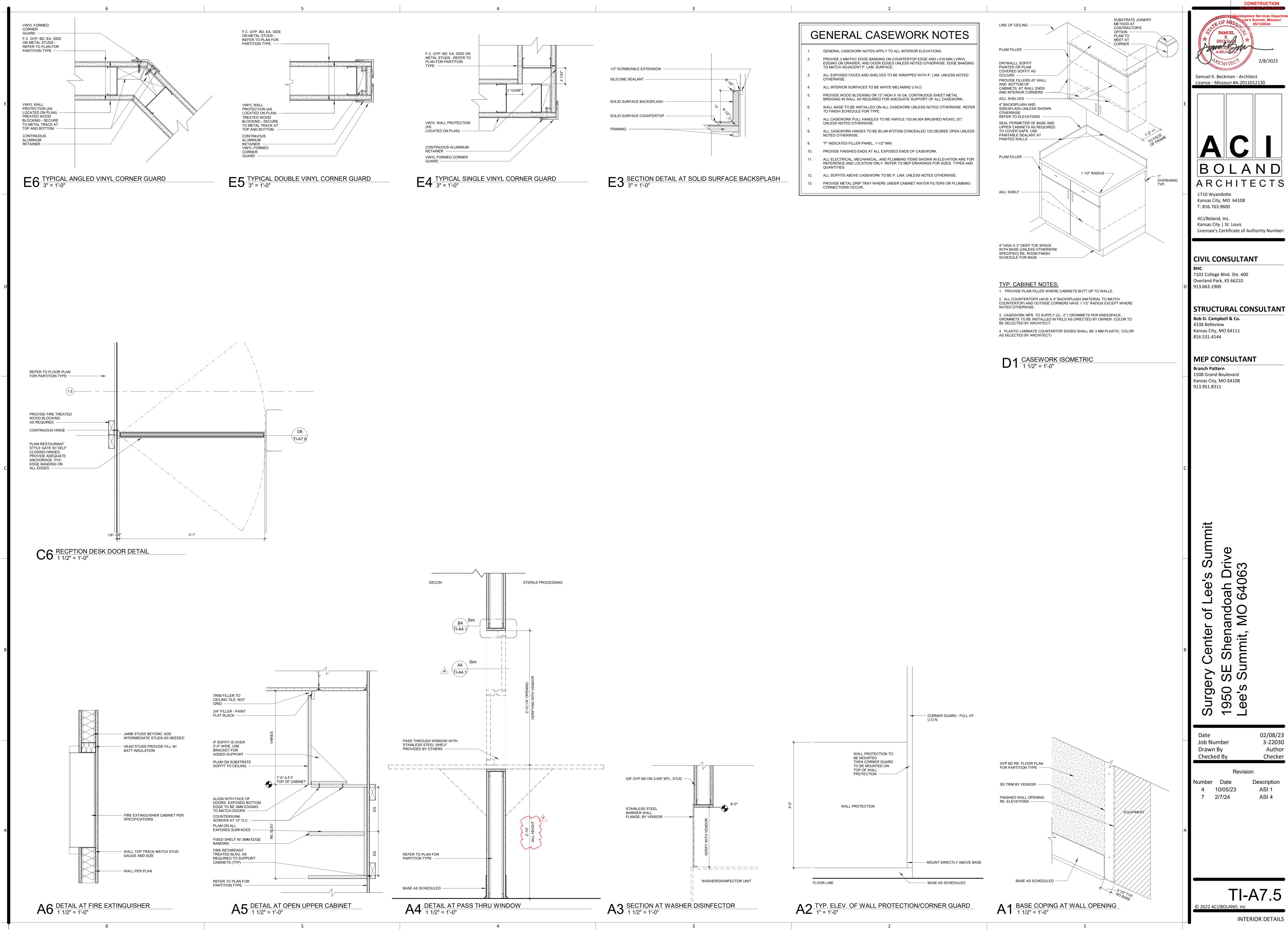
INTERIOR ELEVATIONS



BOLAND ARCHITECTS

Description Addendum #2

TI-A7.4



Samuel K. Beckman - Architect

02/08/23

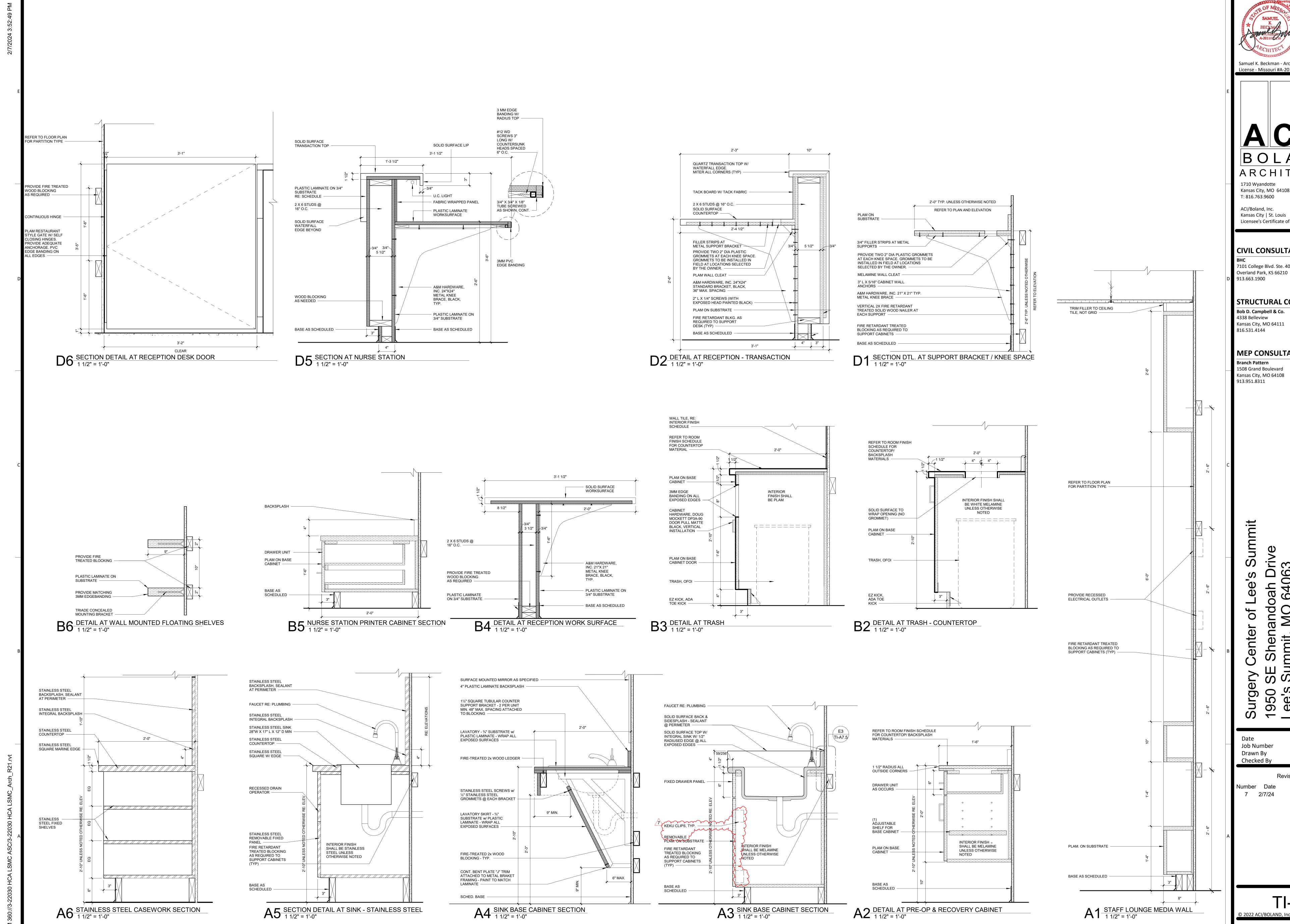
3-22030

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Author

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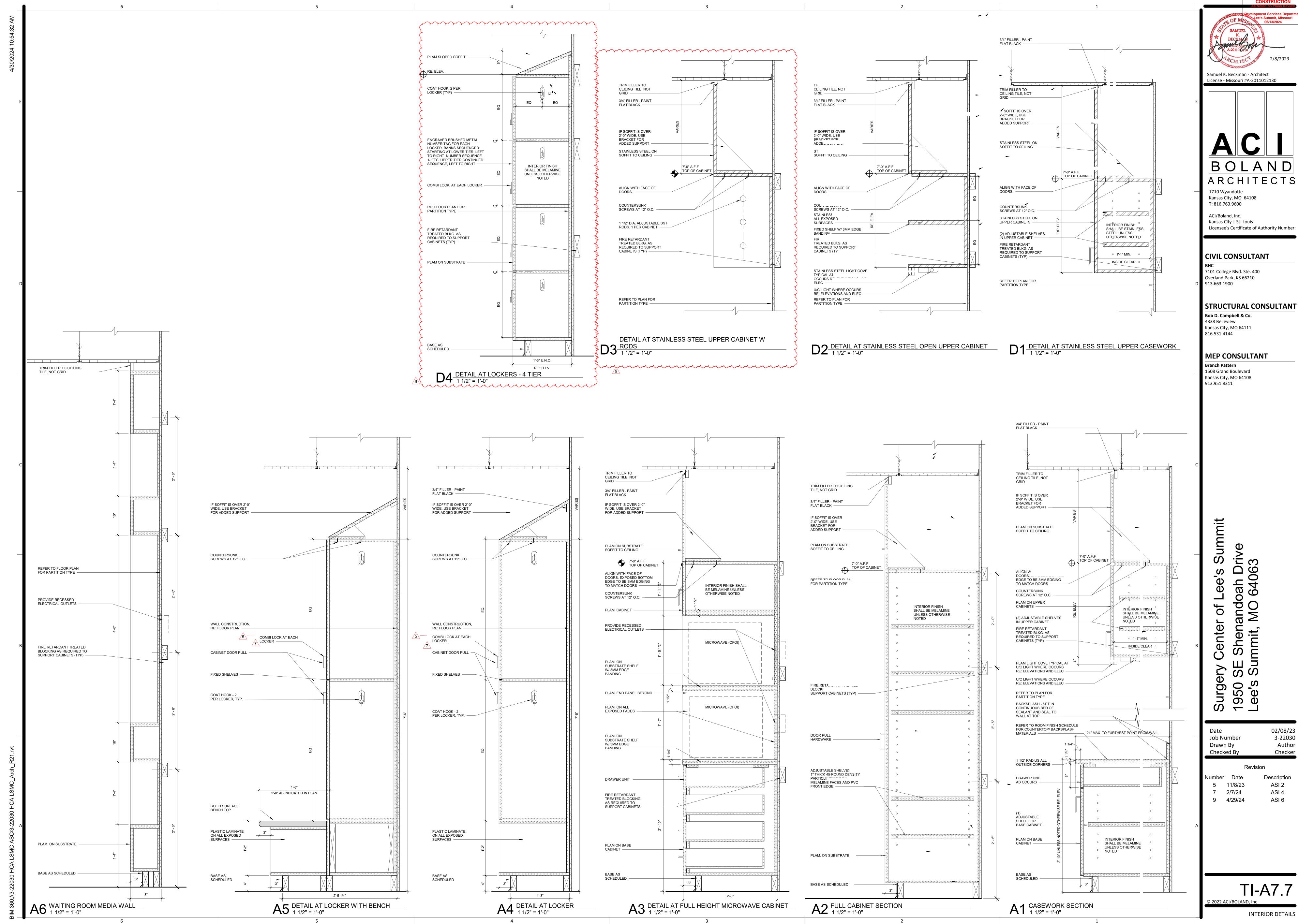
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TI-A7.6

INTERIOR DETAILS



CONSTRUCTION
As Noted on Plans Review Samuel K. Beckman - Architect License - Missouri #A-2011012130 BOLAND ARCHITECTS 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 ACI/Boland, Inc. Kansas City | St. Louis Licensee's Certificate of Authority Number: **CIVIL CONSULTANT** 7101 College Blvd. Ste. 400 Overland Park, KS 66210 913.663.1900 STRUCTURAL CONSULTANT Bob D. Campbell & Co. 4338 Belleview Kansas City, MO 64111 816.531.4144 **MEP CONSULTANT Branch Pattern** 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311 3/4" FILLER - PAINT FLAT BLACK ——— IF SOFFIT IS OVER 2'-0" WIDE, USE BRACKET FOR METAL CORNER BEAD ADDED SUPPORT -\_\_ GYP. BD. SOFFIT REFER TO RCP Summit PLAM ON SUBSTRATE SOFFIT TO CEILING — CLEAR SATIN ANODIZED ALUMINUM U-CHANNEL 7'-0" A.F.F TOP OF CABINET REFER TO FLOOR PLAN FOR PARTITION TYPE ee INTERIOR FINISH - 1/2" CLEAR BUTT SHALL BE MELAMINE UNLESS OTHERWISE JOINTED TEMPERED GLASS NOTED р 10 of enter CLEAR SATIN
 ANODIZED ALUMINUM FIRE RETARDANT TREATED
BLOCKING AS REQUIRED TO
SUPPORT CABINETS (TYP) REFER TO PLAN FOR PARTITION - SOLID SURFACE CAP 950 ee's FIXED SHELF -DOOR PULL HARDWARE -UPHOLSTERED CUSHION BACK RE: FINISH LEGEND & FINISH SCHEDULE 02/08/23 3-22030 Job Number Author Drawn By ADJUSTABLE SHELVES TO BE Checker SINUOUS SPRINGS Checked By **BLOCKING AS** 1" THICK 45-POUND DENSITY PARTICLE BOARD W/
MELAMINE FACES AND PVC
FRONT EDGE REQUIRED -UPHOLSTERED PAD AND SEATBACK FASTENED WITH FRENCH CLEAT. 2.25 FOAM DENSITY FOR CUSHION. RE: Number Date 7 2/7/24 FINISH LEGEND & FINISH SCHEDULE SINUOUS SPRINGS — PLAM RE: FINISH SCHEDULE PLAM. ON SUBSTRATE — BASE AS SCHEDULED ——— BASE AS SCHEDULED TI-A7.8 A3 DETAIL AT WARDROBE CABINET 1 1/2" = 1'-0" A2 SECTION DETAIL AT BENCH 1 1/2" = 1'-0" A1 SECTION DETAIL AT ACRYLIC PANEL 1 1/2" = 1'-0" © 2022 ACI/BOLAND, Inc INTERIOR DETAILS

www.branchpattern.com PROJECT NUMBER: 1201002 BranchPattern PROJECT NUMBER: 1201002
BETTER BUILT ENVIRONMENTS

(THIS SHEET)

GENERAL NOTES (THIS SHEET 1. SEE SHEET M0.1 FOR LEGENDS AND ADDITIONAL GENERAL NOTES.



CONSTRUCTION

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STRUCTURAL CONSULTANT Bob D. Campbell & Co.

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**MEP CONSULTANT** 

BranchPattern 1508 Grand Boulevard Kansas City, MO 64108

f Lee's Summit doah Drive D 64063 of Surgery Center of 1950 SE Shenar Lee's Summit, M

Drawn By

2/8/2023 3-22030 Author Checker

Description ASI #4 ASI #6

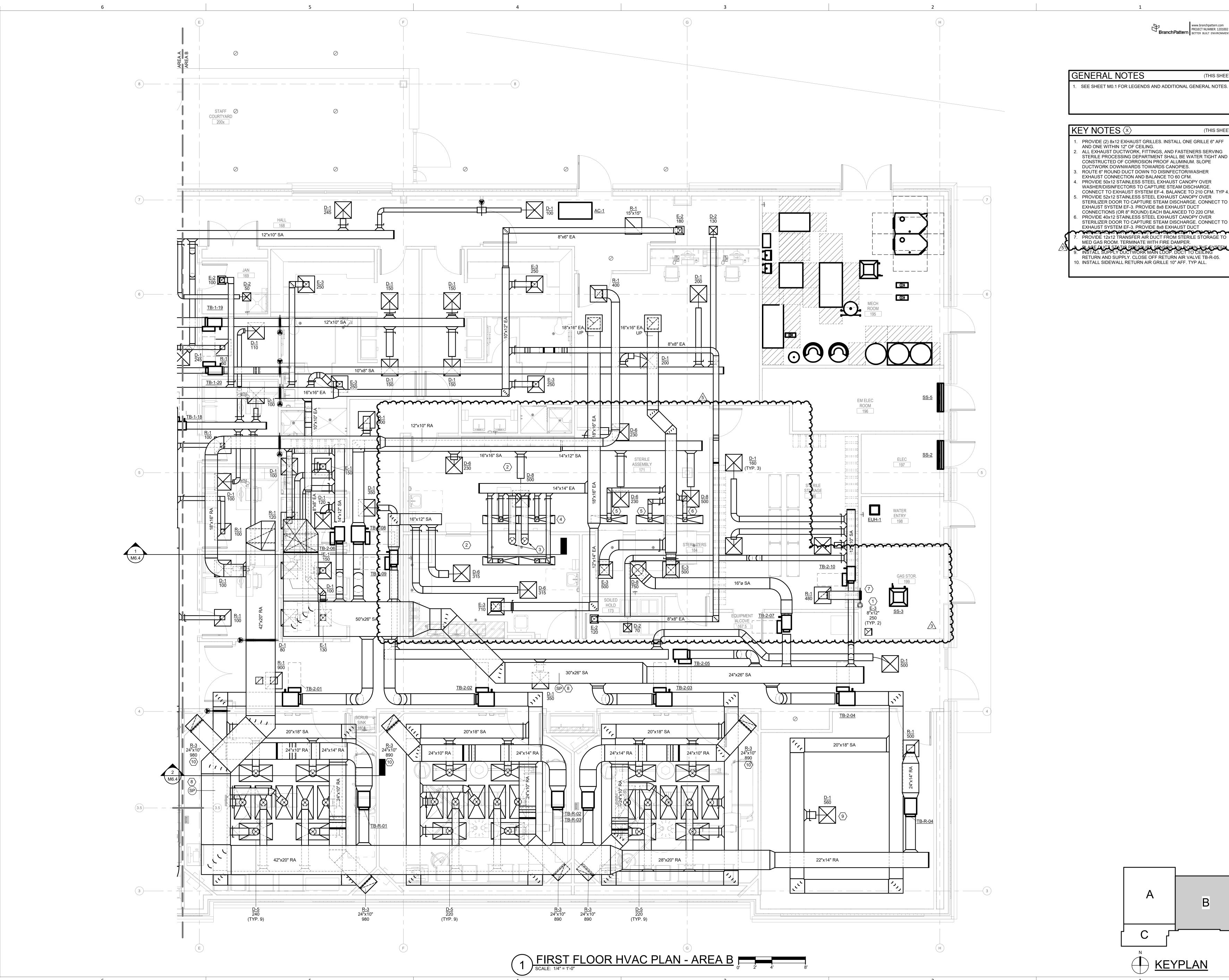
Number Date 8 2/7/24 9 4/29/24

M1.1A

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**KEYPLAN** 

В



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BETTER BUILT ENVIRONMENTS

(THIS SHEET) 1. SEE SHEET M0.1 FOR LEGENDS AND ADDITIONAL GENERAL NOTES.

(THIS SHEET

 PROVIDE (2) 8x12 EXHAUST GRILLES. INSTALL ONE GRILLE 6" AFF AND ONE WITHIN 12" OF CEILING.
 ALL EXHAUST DUCTWORK, FITTINGS, AND FASTENERS SERVING STERILE PROCESSING DEPARTMENT SHALL BE WATER TIGHT AND CONSTRUCTED OF CORROSION PROOF ALUMINUM. SLOPE DUCTWORK DOWNWARDS TOWARDS CANOPIES. ROUTE 6" ROUND DUCT DOWN TO DISINFECTOR/WASHER

CONNECT TO EXHAUST SYSTEM EF-4. BALANCE TO 210 CFM. TYP 4. PROVIDE 52x12 STAINLESS STEEL EXHAUST CANOPY OVER STERILIZER DOOR TO CAPTURE STEAM DISCHARGE. CONNECT TO EXHAUST SYSTEM EF-3. PROVIDE 8x8 EXHAUST DUCT CONNECTIONS (OR 8" ROUND) EACH BALANCED TO 220 CFM. PROVIDE 40x12 STAINLESS STEEL EXHAUST CANOPY OVER

STERILIZER DOOR TO CAPTURE STEAM DISCHARGE. CONNECT TO EXHAUST SYSTEM EF-3. PROVIDE 8x8 EXHAUST DUCT 

RETURN AND SUPPLY. CLOSE OFF RETURN AIR VALVE TB-R-05. 10. INSTALL SIDEWALL RETURN AIR GRILLE 10" AFF. TYP ALL.

BOLAND ARCHITECTS

CONSTRUCTION

evelopment Services Department Lee's Summit, Missouri 05/13/2024

Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 Licensee's Certificate of Authority Number:

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Missouri: #000958

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913.951.8311

Summit Lee's of

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Surgery

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Description ADDENDUM #3 ASI #2

1950 Lee's

3 3/7/23 5 11/8/23

В

M1.1B

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FIRST FLOOR HVAC PLAN -AREA B





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4338 Belleview

816.531.4144

Kansas City, MO 64111

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Job Number Drawn By Checked By

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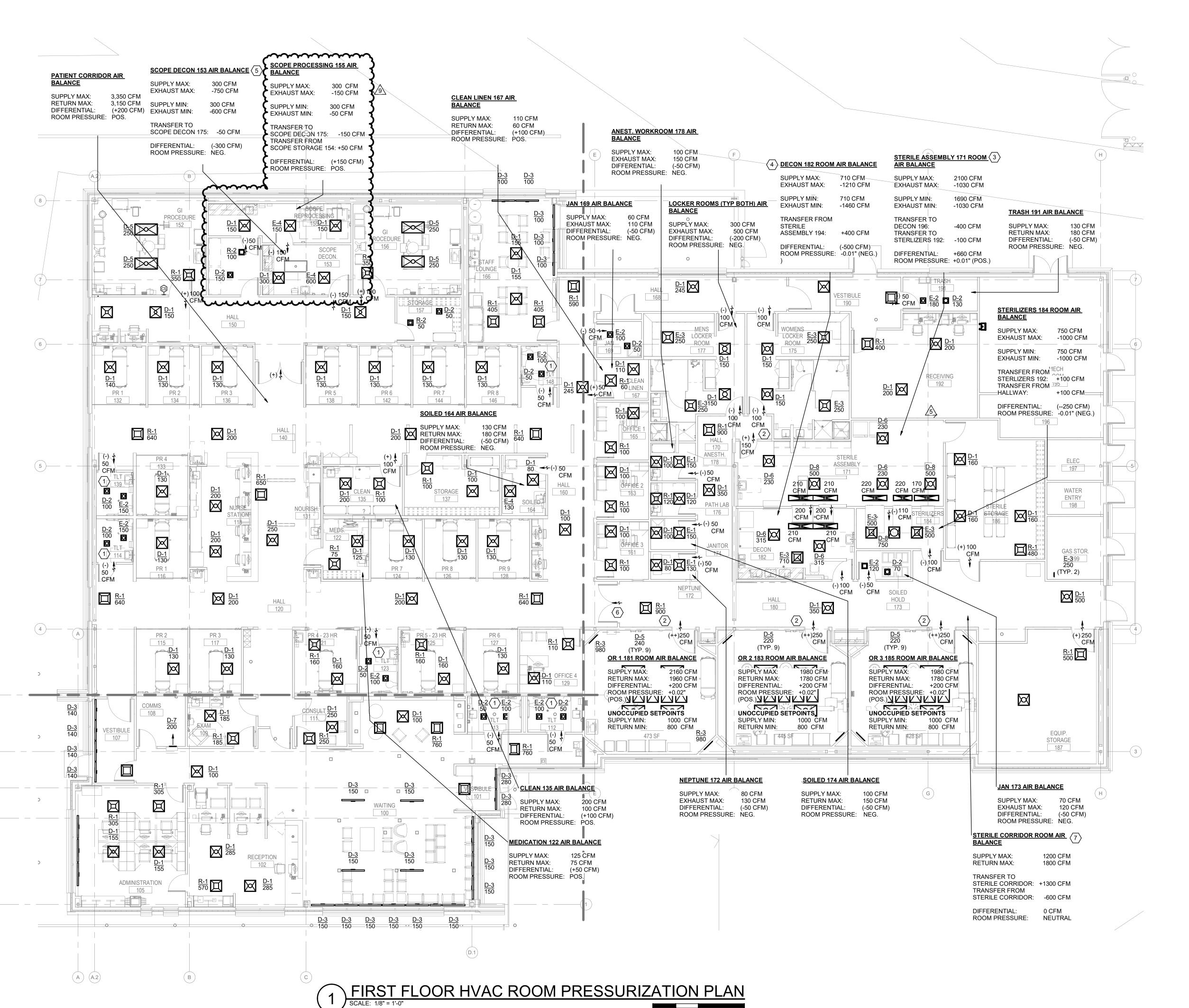
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**KEYPLAN** 

ASI #2 ASI #6

M1.2

FIRST FLOOR HVAC ROOM PRESSURIZATION PLAN -OVERALL



KEY NOTES (X) (THIS SHEET ALL TOILET ROOMS SHALL BE BALANCED TO (-50) CFM NEGATIVE. PROVIDE ROOM PRESSURE MONITORING STATION. SIGNALS TO BE TIED INTO BAS. COORDINATE LOCATION & ELEVATION WITH

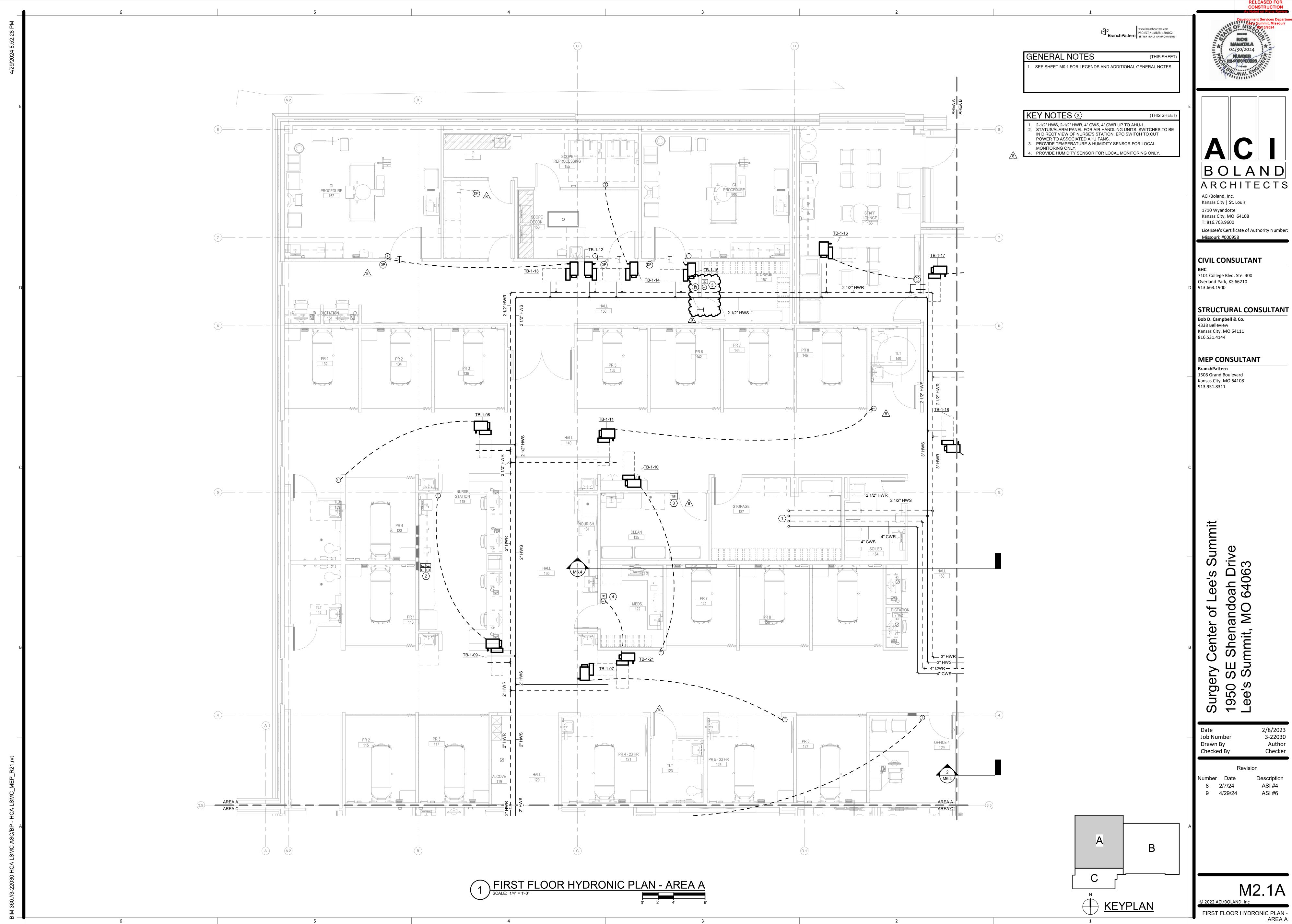
ARCHITECT. BALANCE CONTRACTOR TO BALANCE THIS SPACE TO POSITIVE RELATIVE TO CORRIDOR AND DECONTAMINATION ROOM. SUPPLY SYSTEM HAS BEEN SIZED TO HANDLE UP TO 2100 CFM. INCREASE SUPPLY AIR AS NECESSARY TO ACHIEVE POSITIVE SPACE PRESSURE. FINAL CFM SHALL NOT BE BALANCED LOWER THAN LISTED MINIMUM SUPPLY CFM.

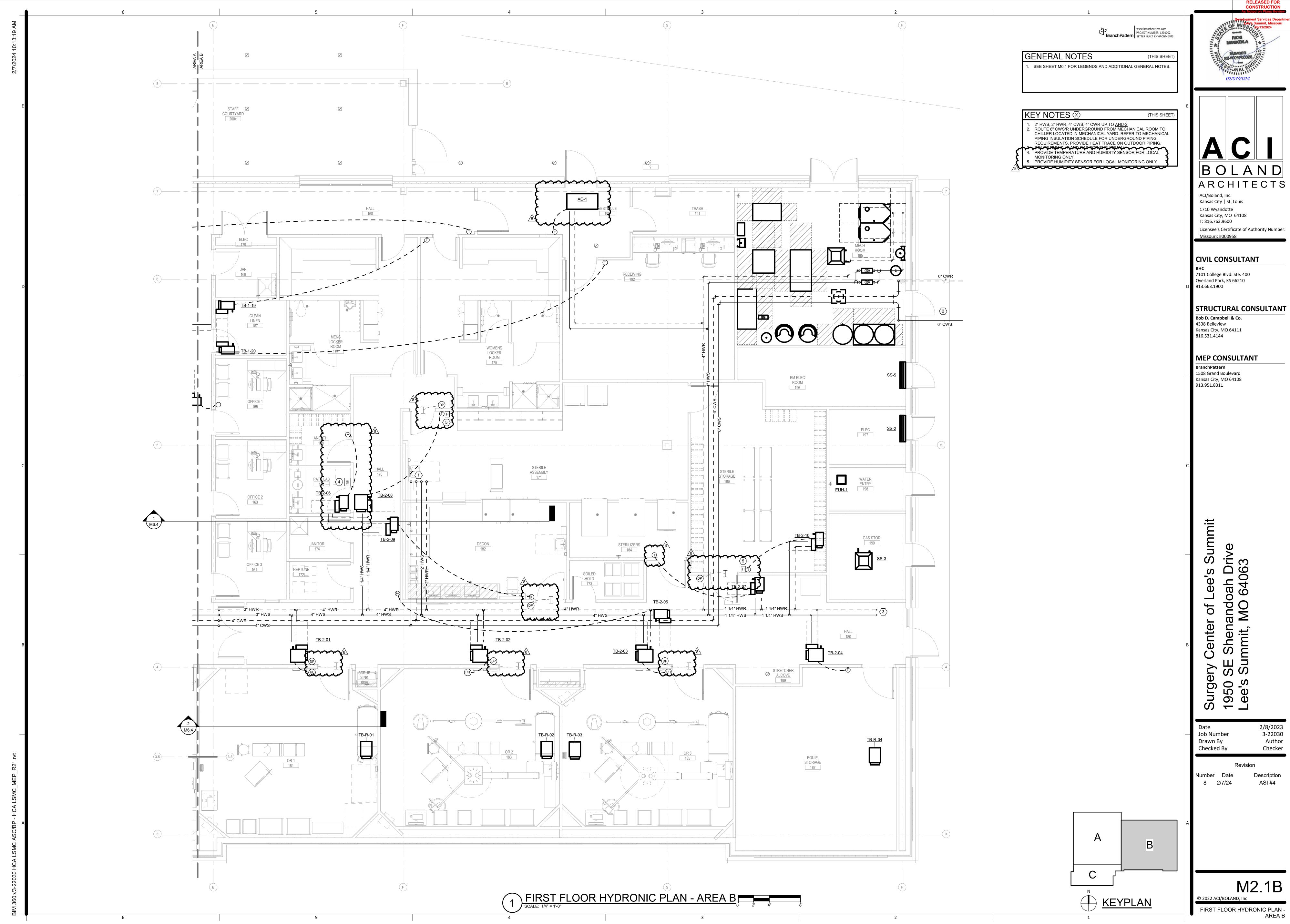
BALANCE CONTRACTOR TO BALANCE THIS SPACE NEGATIVE RELATIVE TO CORRIDOR AND STERILE PROCESSING. EXHAUST SYSTEM HAS BEEN SIZED TO HANDLE UP TO 2200 CFM. INCREASE EXHAUST AIR AS NECESSARY TO ACHIEVE NEGATIVE SPACE PRESSURE. FINAL CFM SHALL NOT BE BALANCED LOWER THAN LISTED MINIMUM EXHAUST CFM.

BALANCE CONTRACTOR TO BALANCE SCOPE DECONTAMINATION ROOM NEGATIVE RELATIVE TO ENDOSCOPY PROCEDURE ROOMS AND SCOPE REPROCESSING ROOM. EXHAUST SYSTEM HAS BEEN SIZED TO HANDLE UP TO 1100 CFM. INCREASE EXHAUST AIR AS NECESSARY TO ACHIEVE NEGATIVE SPACE PRESSURE. FINAL CFM SHALL NOT BE BALANCED LOWER THAN LISTED MINIMUM EXHAUST

RETURN AIR IN STERILE CORRIDOR SHALL BE BALANCED TO MAINTAIN POSITIVE PRESSURE RELATIONSHIP TO PACU CORRIDORS.

BALANCE CONTRACTOR IS ABLE TO MODIFY RETURN CFM LISTED IN ORDER TO ACHIEVE POSITIVE PRESSURE RELATIONSHIP TO ADJACENT SPACES. NOTE: STERILE CORRIDOR MUST BE POSITIVE RELATIVE TO PACU CORRIDOR.





BranchPattern www.branchpattern.com
PROJECT NUMBER: 1201002
BETTER BUILT ENVIRONMENTS GENERAL NOTES . SEE SHEET M0.1 AND P0.1 FOR LEGENDS AND ADDITIONAL GENERAL NOTES. ACI/Boland, Inc. Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 Licensee's Certificate of Authority Number: Missouri: #000958 **CIVIL CONSULTANT** BHC 7101 College Blvd. Ste. 400 Overland Park, KS 66210 913.663.1900 3"VTR STRUCTURAL CONSULTANT Bob D. Campbell & Co. 4338 Belleview <u>3"VTR</u> Kansas City, MO 64111 816.531.4144 3"VTR CU-4 6 **MEP CONSULTANT** BranchPattern 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311 <u>CU-3</u> 5 — — 00 3"VTR f Lee's Summit doah Drive D 64063 <u>CU-1</u> 3"VTR 2/8/2023 3-22030 Author Checker Number Date Description 3 3/7/23 ADDENDUM #3 1 ROOF MECHANICAL PLAN
SCALE: 1/8" = 1'-0" **KEYPLAN** © 2022 ACI/BOLAND, Inc ROOF MECHANICAL PLAN

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review Development Services Department Lee's Summit, Missouri 05/13/2024

BOLAND ARCHITECTS

M3.1

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CONSTRUCTION

BOLAND

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Licensee's Certificate of Authority Number:

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Bob D. Campbell & Co.

Kansas City, MO 64111

**MEP CONSULTANT** 

4338 Belleview

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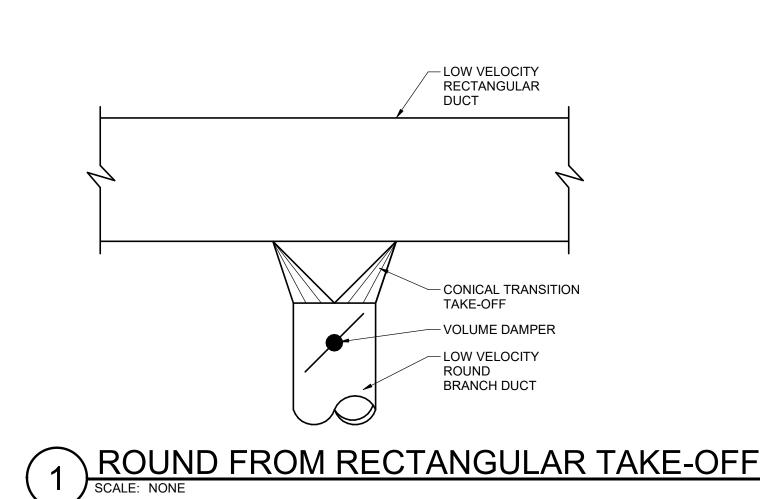
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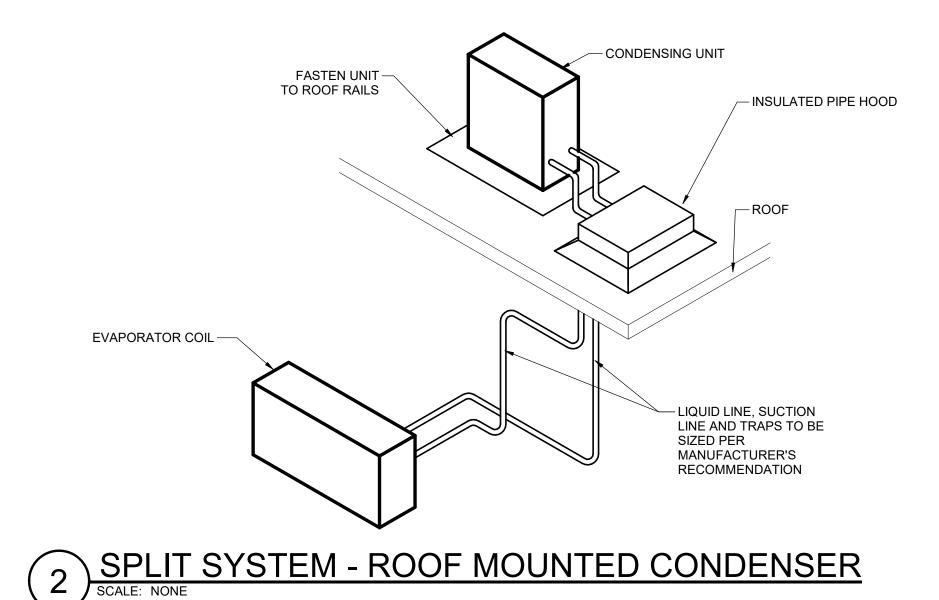
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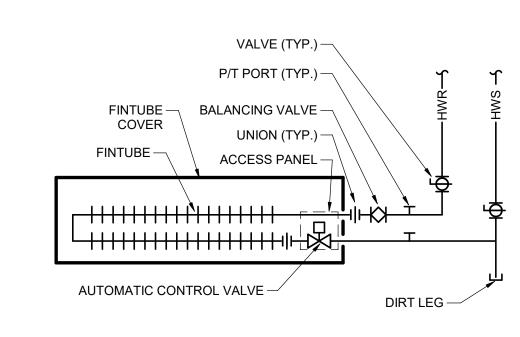
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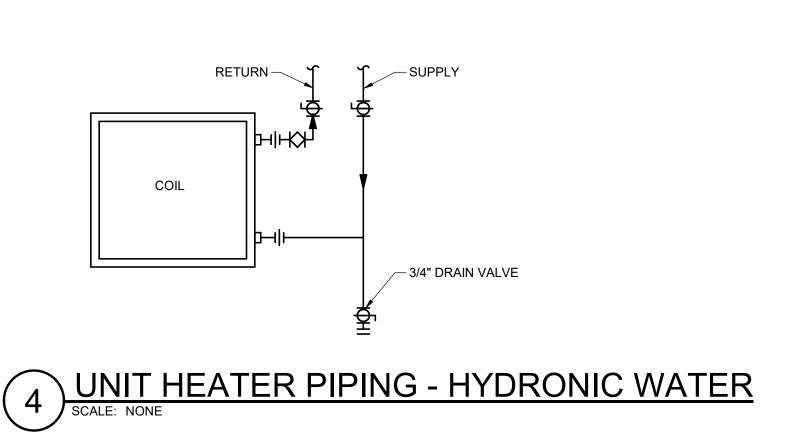


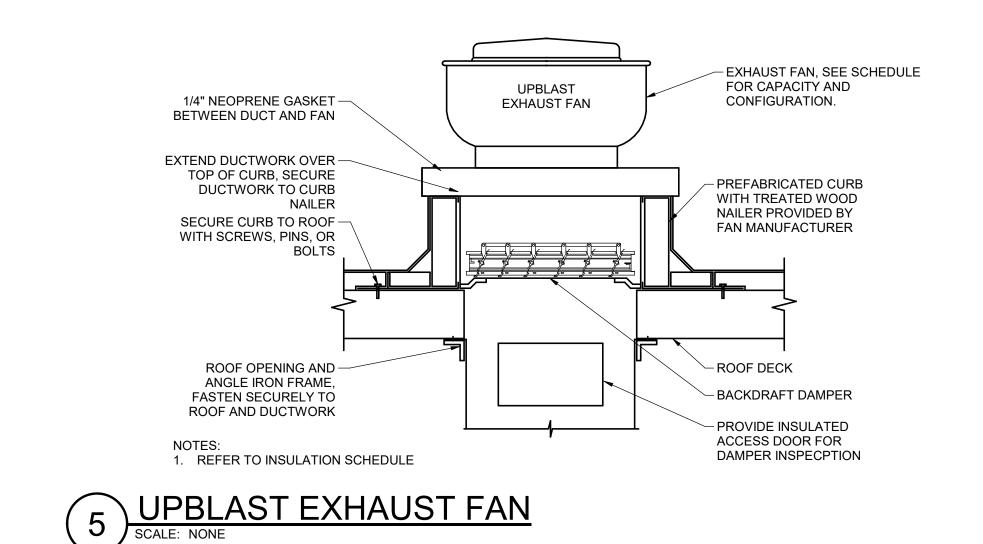
NOTES:

1. EXACT LOCATION OF FITTINGS ETC. TO BE FIELD COORDINATED.

2. CEILING ACCESS OF ISOLATION VALVES ACCEPTABLE.

TWO-ROW, DOWN-FEED FINTUBE CONNECTION





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 $\neg \vdash \vdash \vdash \vdash \vdash$ 

8 AHU CHILLED WATER COIL
SCALE: NONE

/- 3/4" DRAIN VALVE

BRANCH PIPING TO COIL TO BE THE SAME -

REMOVABLE PIPE CONNECTIONS SHALL -MATCH COIL CONNECTIONS PROVIDED.

SIZE AS COIL CONNECTION UNLESS

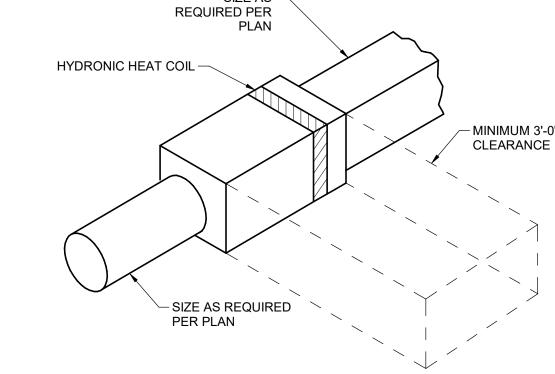
OTHERWISE NOTED

COIL

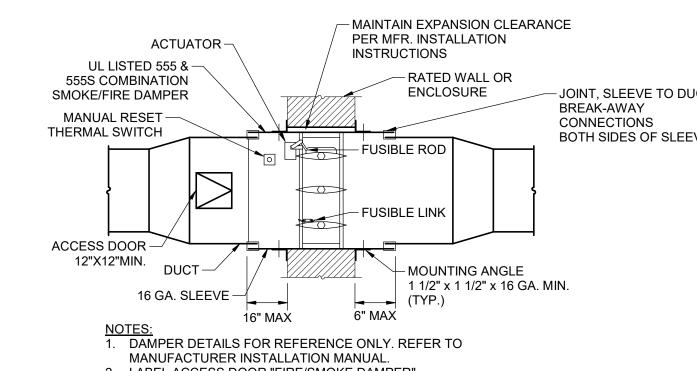
MULTIPLE COIL

(WHERE

APPLICABLE)

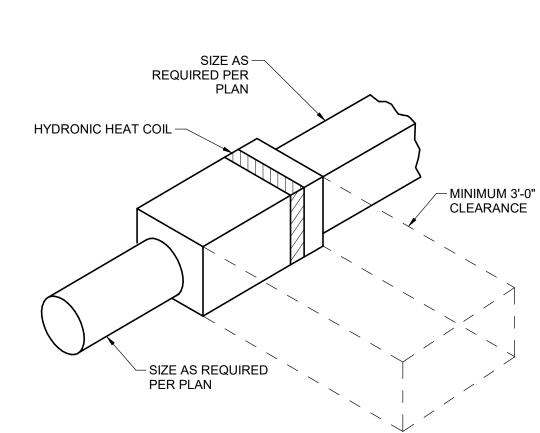


6 VAV BOX CONNECTION
SCALE: NONE



- 3. COMBINATION FIRE/SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF IBC. 4. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO INSPECTING AUTHORITIES.
- 5. COORDINATE POWER REQUIREMENT AND LOCAL DISCONNECT SWITCH LOCATION WITH DIVISION 26. 6. PROVIDE COMBINATION FIRE/SMOKE DAMPER 4 INCHES LARGER MIN, UNLESS OTHERWISE NOTED, IN LENGTH AND IN WIDTH THAN THE CONNECTING DUCT. PROVIDE CONCENTRIC DUCT

7 FIRE/SMOKE DAMPER
SCALE: 1/8" = 1'-0"



-JOINT, SLEEVE TO DUCT BOTH SIDES OF SLEEVE

2. LABEL ACCESS DOOR "FIRE/SMOKE DAMPER".

TRANSITION AS REQUIRED.

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Job Number Drawn By Checked By

Revision

2/8/2023 3-22030

Author Checker

ASI#4

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AIR C	URTAIN S	CHEDULE											
MARK	MANUFACTURER	& SERVES	TYPE	FAN		HEATING					ELECTRICA.		$\top$
	MODEL OR EQUA	AL		СҒМ	MOTOR #	GPM	PRESSURE DROP	EWT / LWT	CAPACITY (MBH)	COIL ROWS	HP	VOLT/PH/HZ	
AC-01	BERNER ARD12-20	72W RECEIVING	ARCHITECTURAL RECESSE	ED 2520	2	9	2.7 FT	140 / 125	70	4	(2) 1/2	115/1/60	_
	PROVIDE WITH FILTER UNIT RATED FOR 30%		T LIE A TED OC										
	MARK	MANUFACTURER & MODEL OR EQUAL	SERVES LOCA	TION CAP/	ACITY CAPACI	RATI	ING (GA)	(F	F) N		CFM VOL	.TS/PH/HZ	NO <sup>.</sup>
	EUH-1	TRANE UHEC-051A0C0	WATER ENTRY WATER	ENTRY	5 17.1	24.	.1 8	3.	.6	1/125	1550 2	08/1/60	
	<u>NOTES:</u> 1.	PROVOIDE WITH INTEGE	RAL THERMOSTAT.										<u> </u>
		EXPA	<b>NSION TANK</b>	SCHE	DULE								
		EXPA MARK		TANK ACCEPT	DULE TANCE VOLUME LONS)	:	ACTUAL TAN			MENSIONS (W X H)	WEI		NO
			MANUFACTURER &	TANK ACCEPT	TANCE VOLUME	:		ONS)				35)	
		MARK	MANUFACTURER & MODEL OR EQUAL	TANK ACCEPT	TANCE VOLUME LONS)	:	(GALLO	ONS)		(W X H)	(LE	3S) 4	NO <sup>-</sup>

AIR/DIRT SEPARATOR SCHEDULE

**SERVES** 

**HEATING WATER** 

CHILLED WATER

MANUFACTURER &

**MODEL OR EQUAL** 

SPIROTHERM VDN500

SPIROTHERM VDN600

1. PROVIDE WITH REMOVABLE STRAINER.

2. RATED FOR 30% PROPYLENE GLYCOL.

AS-2

	ANDLING		1											F	ROJEC	T ALTIT	UDE: 1	000 FEE	T ABOV	E SEA LEVE						1											Bra	nchPattern B	ww.branchpattern.com ROJECT NUMBER: 120100 ETTER BUILT ENVIRONME
MARK	MANUFACTURER	MODEL	LOCATION	TYPE					SUPPLY											RETURN/RELIEF												WA	ATER COILS						
			OF UNIT	OF AIRFLOW	MAX SYSTEM AIRFLOW	EST EXT SP	TOTAL STATION PRESS.	OF FANS	R FAN DIA	OPERATING SPEED	FAN TO	"	OF M		MAX SYSTEM NRFLOW	EST EXT SP	TOTAL STATIC PRESS.	OF FANS	FAN DIA	TYPE	FAN SPEED	FAN DRIVE	TOTAL BHP	NUMBER OF MOTORS	F MAX MOTOR SIZE	TYPE	AIRFLOV	V FLUID TYPE	MIN NUMBER OF	PER	MIN TOTAL OUTPUT		EWT	LWT	EAT DB/WB	LAT DB/WB	MAX WATER FLOW	MAX WATER PD	MAX AIR PD
					CFM	IN. WG	IN. WG			RPM			Н	P EA.	CFM	IN. WG	IN. WG				RPM				HP EA.		CFM		ROWS	FOOT	МВН	МВН	°F	°F	°F	°F	GPM	FT. H2O	IN. WG
AHU-1	TRANE	CSAA035	ROOF	VAV	18,000	1.75"	6.1"	2	22.25	2,260	DIRECT	25.8	2	15.0	18,000	0.75"	2.00"	2	22.25	DD PLENUM	2,033	DIRECT	13.0	2	7.5	HOT	18,000 18,000	WATER 30% PG	6	80 109	591 840	- 581	130.0 40.0	110.0 52.0	37.3 81.3 / 67.0	67.57 52.0 / 51.47	59.0 151.5	6.9 36.3	0.14
																										НОТ	15,000	WATER	1	106	325	-	130.0	100.0	45.0	65.0	21.7	1.0	0.08
AHU-2	TRANE	CSAA035	ROOF	VAV	15,000	2.50"	8.0"	2	22.25	2,532	DIRECT	29.5	2	20.0	15,000	1.50"	2.57"	2	22.25	DD PLENUM	1,863	DIRECT	10.9	2	7.5	CHILLED		30% PG	8	137	908	527	40.0	52.0	77.34 / 66.99	47.5 / 47.4	163.8	41.7	1.01
MARK	BANK	MERV	ILTERS MAX	DEPTH	MAX	NUMBER	MAX	LAT					ICATION WH			RMANCE			MIN	VENTILATION AIR  MAX	100%		SERVICE	ELECTRICAL	<u> </u>			MAX TOTAL	MAX TOTAL	NOTES									
	NUMBER		FACE		AIR	OF	ABSORP	DB/WB		REGENERA	_				SUPPLY				AIRFLOW	AIRFLOW	ECONO	V/PH/HZ		SCCR	FLA	MCA	МОР	DIMENSION	WEIGHT										
			VELOCITY		PD	INJECT	DIST		ENTE	RING AIR	LEAVING	SAIR	ENTE	RING AIR		LE	EAVING AIR											LxWxH											
			FPM	IN.	IN. WG		IN.	°F	°F DB	RH, %	°F DB	RH, %	F DB F	RH, %	R, GR/LB	°F DB	RH, %	HR, GR/LB	CFM	CFM			DESCRIPTION					inches	lbs										
	2	MERV 8 MERV 15	284 529	12	1.00 1.20																	480/3/60 480/3/60	RETURN FANS SUPPLY FANS		22.00 42.00	24.75 47.25	35.0 60.0												
AHU-1													N/A						5,220		YES	115/1/60	LIGHTS + SWITCH	SEE SCCR SCHEDULE	2.64	3.26	15.0	410.8 x 100.0 73.4	12,290	1-10, 12-16,18,19,	20								
																						115/1/60	RECEPTACLE		8.00	10.00	15.0 15.0												
																						113/1/00	UV LIGHTS		2.00	3.23	13.0												
	1	MERV 8	237	2	1.00																	480/3/60	RETURN FANS				35.00												
	2	MERV 15	500	12	1.20																	480/3/60 460/3/60	SUPPLY FANS CDQ MOTOR	SEE SCCR			60.00 15.00	359.5 x 100.0	X	1-11,13-17,1	9.								
AHU-2									80.3	47.4%	76.1	62.8%	47.5	9.3%	48.3	51.7	64.5%	36.8	4,660		YES	115/1/60	UV LIGHTS	SCHEDULE	2.60	3.25	15.00	140.9	16,625	20									
																						115/1/60 115/1/60	LIGHTS + SWITCH RECEPTACLE				15.00 15.00												
3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	ALUES STATED ARE A REFER TO AHU DETAIL STIMATED EXTERNAL MAXIMUM AIR PRESSUI FAN CLASS IN ACCORD PROVIDE TIMER SWITC MINIMUM OUTSIDE AIR PROVIDE HEAT TRACIN PROVIDE AHU-2 WITH DE PROVIDE WITH 28" INSU PROVIDE FIELD INSTAL DO NOT SELECT FAN ME FACTORY PROVIDED AIR STACTORY PROVIDED AIR STACTORY PROVIDE TWO CONHU-1: PROVIDE ONE CONHU-1: PROVIDE ONE CONHU-1: PROVIDE ONE CONHU-1: PROVIDE ONE CONHU-1: PROVIDE ALL COIL SEC	S FOR SECTIONS FOR STATIC PRESS RE DROPS FOR SERVICE WITH A SERVICE IN COMPLIAN FOR SERVICE PUMP ON HEAD SESICCANT DESICCANT D	IN LAYOUT. SURE INCLUDE R ALL COMPON MCA 99-2408. E LIGHTS. CE WITH APPLIC ING WITHIN PIPE ATING COIL. INSEHUMIDIFICATION CURB. AHU OL ER DISPERSION N 10% OF NAME OS. PROVIDE ON E SELECTED AT DAMPERS. ONE AMPER WITH IN UMIDIFIER SECT	S PRESSURE IENTS ARE A CABLE CODE ING VESTIBUE STALL WITHIN ON WHEEL EC JTDOOR AIR N ARRAY FRO EPLATE RATE NE VFD PER IN SHALL BE PINTEGRAL AIR TIONS WITH	E, ASHRAE 170  JLE.  N PIPING VEST  QUAL TO TRAN  INTAKE MUST  OM HUMIDIFIEF  ED HORSEPOW  FAN. ALL WIRIN  E.  ROVIDED WITH  RFLOW MEASU  PIPE CABINET	YSTEM AIRF VENTILATIO TIBULE. NE CDQ. TBE INSTALL R GENERATO VER. NG FROM VE H INTEGRAL JREMENT TO TS. PIPE CAB	ELOW.  ON FOR HEALT!  LED NO LESS TO FAN MODERATE TO FAN MODERATE TO FAN MODERATE TO MAINTAIN VENTIME TO MAINTAIN MAINTAI	THAN 36" AETURER. INST DTORS SHAN ASUREMENT NTILATION. EXTEND TO	CILITIES.  SOVE ROOF LICTORY  TALL HUMIDIFIE  TO MAINTAIN  TOP LEVEL O	NE. ER IN BLANK A DUIT. I VENTILATION OF AHU AS NEE	AHU SECTION	UPSTREAM (	ALL BE OPPO	SED BLAD	E AIRFOIL F	OR USE DUI	RING ECON	IOMIZER OPE	RATION.																				
CABI	NET UNIT	HEAT	ER SC	HEDU	LE													ELEC	TRIC	STEAM	HUM	IDIFIE	R SCHEI	DULE															
MARK	MANUFACTURES MODEL OR EQU		SERVES	TYF	PE	FAN INF	FORMATION E.S.P.	GPN	PRESS	HEATIN SURE EWT /	СДР	ACITY	COIL	ELECTE	VOLT/PH/	NO	TES								INPUT	PERFOR	RMANCE		GN CONDITION	ONS OUTSIDE AIR	0.4% OA	Δ Γι	ESIRED SPA	\CE	LECTRICAL DATA		MAX BSOPTION	OPERATIN WEIGHT	
CUH-1	TRANE FFC060	) VE	STIBULE	RECESSED	DUCTED	565	0.25	4.4	DR0	OP	(M	BH) 54	ROWS 4	1/4	120/1/60		-4	MARK		NUFACTURER	MO			OCATION	(KW)	(LBS/	/HR) (L	BS/HR) V	DLUME	(CFM)	HR (GR/L	.B) T	(°F) / RH % /	HR		AMPS DIS	STANCE (IN)	(LBS)	NOTES
CUH-2	TRANE FFC060		STIBULE	RECESSED		565	0.25	4.4	_			54	4	1/4	120/1/60		-4	HUM-1 HUM-2		CONDAIR CONDAIR	RS O			XT TO AHU XT TO AHU	65.3 65.3				8500 8000	5550 5400	4.1		62 / 50 / 41. 70 / 40 / 44		480/3/60 480/3/60	78.5 78.5	12 12	460 460	1-8, 1-8
	. FRONT OUTLET, BAC B. PROVIDE WITH FILTE B. RATED FOR 30% PRO B. REFERENCE MECHA	ER RACK AND OPYLENE GLY	FILTER, INTEGI COL.			ECTRICAL DE	RAWINGS FOR	SHORT CIR	CUIT CURREN	IT RATING							<u>1</u>	2 3 4	PROVIDE D PROVIDE A SUPPLY UN	RAIN COOLER FOF ND FIELD-INSTALL	EACH HUM ULTRA-SOF OSMOSIS V	IIDIFIER, PIP B DISPERSI /ATER FROM	TITH MANUFACTURER NG SHALL BE INSTAL ON ASSEMBLIES MOU I RO GENERATOR (SE	LED PER MANU INTED. CONNEC EE SEPARATE S	UFACTUREF CT WITH AT SCHEDULE).	R'S INSTAL 「MOSPHEF 1.	LATION INS	TRUCTIONS. HOSE-KITS. HUN	IIDIFIER GRI	D SIZES TO E	E COORDINA	ATED WITH A							

5. UNIT SHALL INCUDE 316 STAINLESS-STEEL CONSTRUCTION, EVAPORATING CHAMBER INSULATION AND SOLID-STATE RELAY (SSR) CONTROL OPTIONS FOR + 1% RH CONTROL. 6. MAX AIR VOLUME IS BASED ON MAX AHU DESIGN AIR VOLUMES. DISPERSION GRID IS LOCATED IN AHU UPSTREAM OF THE COOLING COIL, DOWNSTREAM OF MIXING BOX.

7. PROVIDE UNIT WITH OUTDOOR RATED, WEATHERPROOF, WATER TIGHT CABINET.

8. REFERENCE MECHANICAL ELECTRICAL COORDINATION SCHEDULE ON ELECTRICAL DRAWINGS FOR SHORT CIRCUIT CURRENT RATING.

FAN SCHEDULE
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MARK	BASIS OF DESIGN	UNIT SERVED	LOCATION	TYPE	SERVICE	AIRFLOW				FAN				MO	TOR	MAX	MAX	WEIGHT	NOTES
			OF			TYPE	MAX.	EXT	BACKD	TOTAL	DRIVE	MAX	BHP	MAX	ELEC.	INLET	SONES	1	
			UNIT				AIRFLOW	SP	DAMPER	SP		SPEED		SIZE		dBA	'	1	
									SP								'	1	.
	Manufacturer "Model"		Room No.				cfm	in. wg	in. wg	in. wg		rpm	hp	hp	v/ph/hz	(dB)	'	lbs	.
EF-1	GREENHECK CUE-140-VG	AHU-1	ROOF	CENTRIFUGAL UPBLAST	GENERAL EXHAUST	CAV	2100	0.75	0.09	0.84	DIRECT	1,495	0.62	3/4	120/1/60	64	12.1	70	1-4
EF-2	GREENHECK CUE-140-VG	AHU-1	ROOF	CENTRIFUGAL UPBLAST	SCOPE DECON	CAV	1100	0.3	0.06	0.36	DIRECT	900	0.13	1/4	120/1/60	53	6.8	61	1-4
EF-3	GREENHECK CUE-140-VG	AHU-1	ROOF	CENTRIFUGAL UPBLAST	STERILIZERS	CAV	2100	0.3	0.09	0.39	DIRECT	1,750	0.30	0.5	120/1/60	61	10.4	75	1-4
~E\	~~@REENHECKCHE-160-HG~	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~~~		MODERAL DECON	~~~	~2300~	~~~	~~~	<b>مهنوب</b>	BURECT	~~\Z5Q~	~0:SP~	MA	128/1/60	704	~~	~~~	~
EF-5	GREENHECK USF-090-VG	AHU-1	ROOF	UTITLITY SET FAN	MED GAS RM	CAV	500	0.3	0.06	0.36	DIRECT	1170	0.06	1/4	120/1/60	52	6.0	100	1-4,6
	mmmm	mm	<del>mm</del>	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	munum	mm		<del></del>	mm	سسر	سس					س			

1. ALL AIR VOLUMES STATED ARE ADJUSTED FOR ALTITUDE SHOWN.

2. ACTUAL TOTAL EFFICIENCY CANNOT BE LESS THAN 10% OF THE PEAK TOTAL EFFICIENCY.

3. PROVIDE WITH ADJUSTABLE ECM. 4. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER.

5. WEXTHAUST FAIL SERVING SELFTRACTORES ENHANCED ES ADDITIONAL CAPACITY OVER CONNECTED CFM FOR BALANCING FLEXIBILITY.

6. PROVIDE FAN WITH TYPE A SPARK RESISTANCE.

## **AIR-COOLED CHILLER**

MARK	BASIS OF DESIGN	LOCATION	REQUIRED	NOMINAL	COMPRES	SSOR		Е	VAPORA	ATOR		EFFIC	IENCY	ELECT	RICAL			Pl	JMP SIZING		PH	HYSICAL	DATA	1	NOTES
		OF UNIT	CAPACITY	CAPACITY	REFRIG	NUMB	FLOW	EWT	LWT	MAX	UNIT	MAX	RATED	V/PH/HZ	MCA	MOP	MOTOR	PUMP	EXT.	NET POS.	WEIGHT	Н	W	L	
										PD	MIN	AT	IPLV				SIZE	FLA	PRESSURE	SUCTION	(LBS)	(IN.)	(IN.)	(IN.)	
											FLOW	100%							DROP	HEAD					
												LOAD													
	Manufacturer "Model"		tons	tons	type/pounds		gpm	°F	°F	ft. H2O	gpm	BTU/W-H	BTU/W-H				hp		ft	ft					
CH-1	TRANE ACSA1802EUA	OUTDOORS	148.86	180	R410 / 73	6	304	52	40	11.06	238.6	10.096	16.844	480/3/60	399	500	25	34	75	12.13	12,781	98	88	282	1-8

1. USE AMBIENT AIR CONDITION OF 105 DEG F.

NOTES

1,2

2/2/2023 13:25

(FT. HD)

2. EVAPORATOR FOULING FACTOR = 0.0001, CONDENSER FOULING FACTOR = 0.00025.

3. EVAPORATOR FLUID: 30% PROPYLENE GLYCOL/WATER SOLUTION BY WEIGHT + CHEMICAL TREATMENT.

4. NPLV IN ACCORDANCE WITH TABLE 3 OF AHRI STANDARD 550/590-2011. 5. PROVIDE WITH SOUND ATTENUATION PACKAGE AND HEAT TRACING.

6. PROVIDE CHILLER WITH INTEGRAL PUMP PACKAGE WITH VFDS. PROVIDE (2) FULLY REDUNDANT PUMPS SIZED FOR FULL FLOW.

7. PUMP EXTERNAL STATIC PRESSURE INCLUDES ALL PRESSURE LOSSES OUTSIDE OF CHILLER. PUMP SELECTED FOR 30% GLYCOL. 8. REFERENCE MECHANICAL ELECTRICAL COORDINATION SCHEDULE ON ELECTRICAL DRAWINGS FOR SHORT CIRCUIT CURRENT RATING

2/2/2023 14:25

BOLAND ARCHITECTS ACI/Boland, Inc. Kansas City | St. Louis 1710 Wyandotte

CONSTRUCTION

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**MEP CONSULTANT** 

BranchPattern 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311

816.531.4144

Summit ee's of Surgery 1950 SE ee's Su

2/2/2023

2/2/2023 14:17

2/8/2023 3-22030 Author

3 3/7/23 ADDENDUM #3

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www.branchpattern.com PROJECT NUMBER: 1201002 BranchPattern PROJECT NUMBER: 1201002
BETTER BUILT ENVIRONMENTS

#### TERMINAL BOX SCHEDULE OCCUPIED MIN UNOCCUPIED MIN HOT WATER COIL **HEATING** ROOM CONDITION SETPOINTS **AIRFLOW** DESIGN OF **FLOW** cfm **ROWS** %RH Manuacturer "Model" cfm cfm cfm ft. H2O 1-01 775 1-4 TITUS DESV 24X18 2290 2290 775 0.56 1-02 TITUS DESV 12X10 570 570 300 300 3.2 0.43 1-4 1-03 0.21 TITUS DESV 8E 14X12.5 610 610 185 185 2.2 68 1-4 1-04 TITUS DESV 5 12X8 200 200 0.9 0.08 1,2,4,5 60 1-05 TITUS DESV 6E 12X10 435 435 305 1.4 0.21 70 1-4 305 1-06 12X8 TITUS DESV 4 210 210 150 150 0.9 0.15 70 60% 1-4 2 6.6 1-07 TITUS DESV 9 14X12.5 760 760 20.4 2.9 0.21 70 75 30% 1-4 630 630 2 1-08 TITUS DESV 9 14X12.5 860 860 660 3 3.4 0.31 70 75 30% 60% 1-4 1-09 0.32 1-4 TITUS DESV 2E 20X17.5 1375 1375 735 735 3 6.4 70 75 1-10 TITUS DESV 8E 14X12.5 570 570 420 420 15.3 1.7 0.13 70 75 30% 60% 1-4 1-11 TITUS DESV 9 14X12.5 970 970 635 635 3.4 0.31 70 75 30% 60% 1-4 3 1-12 TITUS DESV 8E 14X12.5 1-4 650 650 430 430 0.20 1-13 TITUS DESV 12X10 1-4 0.34 500 500 345 70 60% 1-14 TITUS DESV 6 12X8 1-4 0.33 350 350 365 72 60% 1-15 TITUS DESV 12X10 1-4 500 500 325 325 0.34 70 75 60% 1-16 1-4 TITUS DESV 9 14X12.5 810 810 500 500 3 30.5 4.1 0.36 68 1-17 TITUS DESV 8E 14X12.5 640 245 245 3 0.23 68 1-4 1-18 1-4 TITUS DESV 6 12X8 410 150 150 11.0 0.33 60% 1-19 600 1-4 TITUS DESV 8E 14X12.5 600 915 915 0.14 68

and show	~~~ <sup>#</sup> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~~~~	14×12-5~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~5 <sup>2</sup> 4~~	~~~ <sup>275</sup> ~~~	~~~ <sup>275</sup> ~~~	~~³~~	~~~	~~~~	~~~~	~~~~	~~~~	~~~	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1-21	TITUS DESV	سئس	12X8	325	325	250	250	~~ <sup>2</sup> ~~	11.0	~~~~~	0.33	70	75	ستس	60%	1-4
2-01	TITUS DESV	16	24X18	2160	2160	2160	1000	4	81.2	6.8	0.52	62	62	30%	60%	1-4
2-02	TITUS DESV	14	20X17.5	1980	1980	1980	1000	4	74.4	6.1	0.61	62	62	30%	60%	1-4
2-03	TITUS DESV	14	20X17.5	1980	1980	1980	1000	4	74.4	6.1	0.61	62	62	30%	60%	1-4
2-04	TITUS DESV	14	20X17.5	1980	1980	1980	1000	4	74.4	6.1	0.61	62	62	30%	60%	1-4
2-05	TITUS DESV	2E	20X17.5	1200	1200	290	290	3	39.5	2.6	0.16	68	75			1-4
2-06	TITUS DESV	6	12X8	400	400	270	270	2	10.7	1.8	0.31	70	75			1-4
2-07	TITUS DESV	8	12X10	750	750	750	750						78		60%	1,2,4,5
2-08	TITUS DESV	16	24X18	2100	1600	1600	1600	3	64.5	4.8	0.47	72	78		60%	1-4
2-09	TITUS DESV	7E	14X12.5	630	630	630	630	2	16.9	1.9	0.27	72	75			1-4
2-10	TITUS DESV	7E	14X12.5	550	550	550	550	2	14.8	1.6	0.21	72	78		60%	1-4
TB-R-01	PRICE RDV	14	20X17.5	2160		2160	1000									1,2,4,6
TB-R-02	PRICE RDV	14	20X17.5	1980		1980	900									1,2,4,6
TB-R-03	PRICE RDV	14	20X17.5	1980		1980	900									1,2,4,6
TB-R-04	PRICE RDV	14	20X17.5	1980		1980	900									1,2,4,6

1. BOX SELECTIONS MADE WITH NO LINER AND 0.3" STATIC PRESSURE DOWNSTREAM OF THE BOX.

- 2. NC LEVELS DETERMINED USING AHRI 885-2005, APPENDIX E.
- 3. HOT WATER COILS SELECTED AT MAXIMUM AIRFLOW, 130°F EWT, 55°F EAT, 95°F LAT.
- 4. PROVIDE 8x8 INSULATED ACCESS PANEL.
- COOLING ONLY UNIT.
- 6. RETURN VARIABLE AIR VALVE.

### HOT WATER BOILER SCHEDULE - CONDENSING

1 1 🔾 1	WAILK BOIL			OOIIL																	
MARK	BASIS	SERVICE	LOCATION	HEAT	DISCHARGE		MAX			В	URNER - GAS				CONNECT	TION SIZES	3	ELECT	RICAL	WEIGHT	
	OF		OF	INPUT	WATER	WATER FLOW	WATER	TYPE	MAX	MAX	MIN	MIN	TURNDOWN	FLUE	COMB	WATER	GAS	POWER	FLA		NOTES
	DESIGN		UNIT		TEMP	FLOW	PD		INPUT	GAS	GAS	%	RATIO		AIR	IN/OUT					
										PRES	PRES	EFF									
	Manufacturer "Model"		Room No.	mbh	°F	gpm	ft		mbh	in. wc	in. wc			in. Ø	in. Ø	in. Ø	in. Ø	v/ph/hz	amps	lbs	
B-1	LOCHINVAR FCB2500	HEATING	MECH ROOM	1750	130	138	8.4	NAT	2500	14	4.0	96	20:01	9"	8"	4"	2"	208/3/60	4.5	3555	1-7
B-2	LOCHINVAR FCB2500	HEATING	MECH ROOM	1750	130	138	8.4	NAT	2500	14	4.0	96	20:01	9"	8"	4"	2"	208/3/60	4.5	3555	1-7

1. ALL CAPACITIES STATED ARE FOR BELOW 2000 FT ALTITUDE

- 2. MINIMUM HEAT OUTPUT FOR 110°F EWT, 20°F DELTA T, AND MINIMUM PERCENT EFFICIENCY AT 100% FIRING RATE.
- 3. MAXIMUM WATER FLOW BASED ON HEAT OUTPUT AND A 20 DEGF DELTA T. 4. MAXIMUM WATER PRESSURE DROP (MAX WATER PD) AT MAXIMUM WATER FLOW.
- 5. MINIMUM PERCENT EFFICIENCY (MIN. % EFF.) AT 100°F EWT, 40°F DELTA T, AND 60% FIRING RATE.
- 6. PROVIDE NEUTRALIZATION DRAIN KIT. BOILER PRESSURE RELIEF VALVE TO BE 80 PSI. 7. REFERENCE MECHANICAL ELECTRICAL COORDINATION SCHEDULE ON ELECTRICAL DRAWINGS FOR SHORT CIRCUIT CURRENT RATING.

1/20/2023 11:49

# **PUMP SCHEDULE**

	MARK	BASIS OF DESIGN	SERVICE	LOCATION	TYPE			P	UMP					MOTOR		NOTES
				OF UNIT	OF	TYPE	MIN	MIN	FLUID	MAX	MAX	MIN	MAX	MAX	ELEC	
					FLOW		FLOW	HEAD	FLUID TEMP. (°F)	NPSH	ВНР	EFF	SIZE	SPEED		
<u>^</u>		Manuacturer "Model"		Room No.			gpm	ft. H2O	12Wii : (1)	ft. H2O		%	hp	rpm	v/ph/hz	
<u>/6\</u>	HWP-01	B&G E-80 2.5x2.5x7B	HEATING HOT WATER	MECH	VARIABLE	VERTICAL INLINE	165	65	130	6.8	4.1	67%	7.5	3600	480/3/60	1,2
	HWP-02	B&G E-80 2.5x2.5x7B	HEATING HOT WATER	MECH	VARIABLE	VERTICAL INLINE	165	65	130	6.8	4.1	67%	7.5	3600	480/3/60	1,2
	HWP-03	B&G E-90 2AAC	HOT WATER COIL RECIRC	AHU-1	CONSTANT	VERTICAL INLINE	60	18	110	5.75	0.37	69%	0.5	1800	120/1/60	1,2
	HWP-04	B&G E-90 2AAC	HOT WATER COIL RECIRC	AHU-2	CONSTANT	VERTICAL INLINE	60	18	110	5.75	0.37	69%	0.5	1800	120/1/60	1,2

GEN REFER TO CHILLER SCHEDULE FOR CHILLED WATER PUMP INFORMATION. CHILLER SHALL COME WITH (2) INTEGRAL CHILLED WATER PUMPS.

1. IMPELLOR FOR VARIABLE FLOW PUMPS SHALL BE TRIMMED FOR MAXIMUM DIAMETER THAT WILL NOT EXCEED THE CAPACITY OF THE PUMP MOTOR.

2. REFERENCE MECHANICAL ELECTRICAL COORDINATION SCHEDULE ON ELECTRICAL DRAWINGS FOR SHORT CIRCUIT CURRENT RATING.

11/29/2023 15:38

			TANK	MOTOR		
MARK	MANUFACTURER	SERVES	SIZE (GAL)	HP	VOLT/PH/HZ	NOT
GT-1	NEPTUNE	CHILLED WATER	50	1/3	120/1/60	1

AIR OUTLET AND INLET SCHEDULE

	MANUF. &		MODULE	NECK SIZE	MAX AIRFLOW					PERF	ORMANCE	
MARK	MODEL	TYPE	SIZE, IN	(W X H OR DIA), IN	CFM	MATERIAL	FINISH	OBD	BORDER		MAX. SPD, IN	NOTES
D-1	TITUS OMNI	PLAQUE FACE DIFFUSER	24 x 24	6	200	STEEL	WHITE	NO	LAY-IN	25	0.10	3
				8	350				OR SURFACE			
				10	500				(REF: RCP)			
				12	630							
	TITLIO OMMI	DI AQUE FACE DIFFLICED	40 40	14	855	OTEE	\A/I IITE	NO	1.437.181	0.5	0.40	
D-2	TITUS OMNI	PLAQUE FACE DIFFUSER	12 x 12	6	120	STEEL	WHITE	NO	LAY-IN OR SURFACE	25	0.10	3
				8	170				(REF: RCP)			
D-3	TITUS FL-15	LINEAR SLOT, (1) 1.5" SLOT,	48"			STEEL	BLACK	NO	LAY-IN	25	0.10	1,2
D-0	111001210	VERTICAL THROW, 8" INLET, TYPE 55 CONCEALED FRAME, COORDINATE FINISH WITH ARCHITECT	40			OTELE	BEROIT	110	OR SURFACE (REF: RCP)	20	0.10	1,2
D-4	TITUS FL-15	LINEAR SLOT, (1) 1.5" SLOT,	24"			STEEL	BLACK	NO	LAY-IN	25	0.10	1,2
		VERTICAL THROW, 8" INLET, TYPE 55 CONCEALED FRAME, COORDINATE FINISH WITH ARCHITECT							OR SURFACE (REF: RCP)			
D-5	TITUS TLF	STAINLESS STEEL LAMINAR FLOW	48 x 24	10	250	STAINLESS	WHITE	NO	LAY-IN	25	0.10	1,3
		DIFFUSER WITH INTEGRAL HEPA FILTERS				STEEL			OR SURFACE (REF: RCP)			
D-6	TITUS OMNI-SS	PLAQUE FACE DIFFUSER	24 x 24	4	80	STAINLESS	WHITE	NO	LAY-IN	25	0.10	3
		STAINLESS STEEL CONSTRUCTION		6	180	STEEL			OR SURFACE			
				8	335				(REF: RCP)			
D-7	TITUS 301FL	SUPPLY 3/4" BLADE SPACING, 0 DEG. DEFLECTION, BLADES PARALLEL TO THE LONG DIMENSION	SEE PLANS			STEEL	WHITE	NO	SIDEWALL	25	0.10	
D-8	TITUS PDR-AA	PERFORATED LAY-IN	24 x 24	12	500	ALUMINUM	WHITE	NO	LAY-IN	25	0.10	3
		SUPPLY GRILLE ALL ALUMINUM CONSTRUCTION		16	1000				OR SURFACE (REF: RCP)			
R-1	TITUS PAR	PERFORATED LAY-IN	24 x 24	6 X 6	100	STEEL	WHITE	NO	LAY-IN	25	0.10	3
E-1			48 x 24	8 X 8	200	0.222	******		OR SURFACE		0.10	· ·
				10 X 10	300				(REF: RCP)			
				12 X 12	450				,			
				15 X 15	650							
				18 X 18	1100							
				22 X 22	1500							
R-2	TITUS PAR	PERFORATED LAY-IN	12 x 12	6	100	STEEL	WHITE	NO	LAY-IN	25	0.10	3
E-2				6 X 6	125				OR SURFACE			
			04 5:	10 X 10	360	OT4			(REF: RCP)		2.15	
E-3	TITUS PAR-SS	PERFORATED LAY-IN	24 x 24	6 X 6	100	STAINLESS	WHITE	NO	LAY-IN	25	0.10	3
		STAINLESS STEEL CONSTRUCTION		8 X 8	200	STEEL			OR SURFACE			
				10 X 10 12 X 12	300 450				(REF: RCP)			
				12 X 12 15 X 15	450 650							
				18 X 18	1100							
				22 X 22	1500							
R-3	TITUS 350RL-SS	RETURN / EXHAUST	12 x 30		1000	STAINLESS	WHITE	NO	SIDEWALL	25	0.10	1
		3/4" BLADE SPACING, 35 DEG. DEFLECTION, BLADES PARALLEL TO THE LONG DIMENSION STAINLESS STEEL CONSTRUCTION				STEEL		-				·

GEN BORDER TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPE FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED. CONTRACTOR TO CONFIRM BORDER TYPE PRIOR TO ORDERING.

GEN BRANCH DUCT RUNOUT FOR REGISTER/GRILLE TO BE SAME AS NECK SIZE UNLESS NOTED OTHERWISE

**DUCTLESS SPLIT SYSTEM SCHEDULE** 

GEN OR EQUAL

1. PROVIDE WITH INTEGRAL BALANCING DAMPER WITH REMOTE ACTUATOR.

2. PROVIDE WITH INSULATED SUPPLY PLENUM. 3. PROVIDE WITH INSULATED BACK PAN.

TRANE PKA-A36KA7

MANUFACTURER & SEER / EER SERVES LOCATION CFM CAPACITY CAPACITY FLA MCA VOLTS/PH/HZ NOTES MODEL COMM 108 705 / 920 36.0 18.8 / 10.8 .57 1 208/1/60 12.0 208/1/60 TRANE PKA-A12LA ELEC 197 ELEC 197 265 / 455 N/A 21 / 13.3 TRANE PLA-A24EA7 265 / 455 24.2 / 14.3 | .49 | 1 208/1/60 TRANE PLA-A42EA7 MECH 195 740 / 1200 48.0 42.0 21 / 11.6 .95 2 208/1/60 1,2,3,4,5 MECH 195 SS-5 TRANE PKA-A12LA EM ELEC 196 | EM ELEC 196 | 265 / 455 12.0 21 / 13.3 .19 1 208/1/60

PROVIDE WALL MOUNTED THERMOSTAT.

2. PROVIDE REFRIGERANT PIPING TO CONDSENING UNIT PER MANUFACTURERS REQUIREMENTS.

3. UNIT POWER SUPPLIED FROM OUTDOOR UNIT. IF REQUIRED, PROVIDE MODEL SI-30 CONDENSATE PUMP WIRED FROM INDOOR UNIT PER PUMP MANUFATURER'S INSTRUCTIONS OR FACTORY INSTALLED PUMP.

4. INTERLOCK FLOAT SWITCH TO DISABLE EVAPORATOR UNIT ON HIGH WATER. RUN ALL PIPING CONCEALED.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

MANUFACTURER &			FULL LOAD	OPERA <sup>*</sup>	TING TEMPS			ELECTR	ICAL DATA	
MODEL	SERVES	LOCATION	CAP. (MBH)	HEATING (F) MIN / MAX	COOLING (F) MIN / MAX	HSPF	MCA	MOPD	VOLTS/PH/HZ	NOTES:
TRANE PUY-A36NKA7	SS-1	COMM 108	36.0	N/A	-40 / 115	N/A	25.0	31	208/1/60	1,2,3,4,5
TRANE PUY-A12NKA7	SS-2	ELEC 197	12.0	N/A	-40 / 115	N/A	11.0	28	208/1/60	1,2,3,4,5
TRANE PUZ-A24NHA7	SS-3	GAS STOR. 199	24.0	-4 /70	0 / 115	11.2	19.0	26	208/1/60	1,2,3,4,5
TRANE PUZ-A42NKA7	SS-4	MECH 195	42.0	-4 /70	0 / 115	0.3	25.0	31	208/1/60	1,2,3,4,5
TRANE PUY-A12NKA7	SS-5	EM ELEC 196	12.0	N/A	-40 / 115	N/A	11.0	28	208/1/60	1,2,3,4,5
	MODEL  TRANE PUY-A36NKA7  TRANE PUY-A12NKA7  TRANE PUZ-A24NHA7  TRANE PUZ-A42NKA7	MODEL         SERVES           TRANE PUY-A36NKA7         SS-1           TRANE PUY-A12NKA7         SS-2           TRANE PUZ-A24NHA7         SS-3           TRANE PUZ-A42NKA7         SS-4	MODEL         SERVES         LOCATION           TRANE PUY-A36NKA7         SS-1         COMM 108           TRANE PUY-A12NKA7         SS-2         ELEC 197           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199           TRANE PUZ-A42NKA7         SS-4         MECH 195	MODEL         SERVES         LOCATION         CAP. (MBH)           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0	MODEL         SERVES         LOCATION         CAP. (MBH)         HEATING (F) MIN / MAX           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0         N/A           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0         N/A           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0         -4 /70           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0         -4 /70	MODEL         SERVES         LOCATION         CAP. (MBH)         HEATING (F) MIN / MAX         COOLING (F) MIN / MAX           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0         N/A         -40 / 115           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0         N/A         -40 / 115           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0         -4 /70         0 / 115           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0         -4 /70         0 / 115	MODEL         SERVES         LOCATION         CAP. (MBH)         HEATING (F) MIN / MAX         COOLING (F) MIN / MAX           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0         N/A         -40 / 115         N/A           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0         N/A         -40 / 115         N/A           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0         -4 /70         0 / 115         11.2           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0         -4 /70         0 / 115         0.3	MODEL         SERVES         LOCATION         CAP. (MBH)         HEATING (F) MIN / MAX         COOLING (F) MIN / MAX         HSPF         MCA           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0         N/A         -40 / 115         N/A         25.0           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0         N/A         -40 / 115         N/A         11.0           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0         -4 /70         0 / 115         11.2         19.0           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0         -4 /70         0 / 115         0.3         25.0	MODEL         SERVES         LOCATION         CAP. (MBH)         HEATING (F) MIN / MAX         COOLING (F) MIN / MAX         HSPF         MCA         MOPD           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0         N/A         -40 / 115         N/A         25.0         31           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0         N/A         -40 / 115         N/A         11.0         28           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0         -4 /70         0 / 115         11.2         19.0         26           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0         -4 /70         0 / 115         0.3         25.0         31	MODEL         SERVES         LOCATION         CAP. (MBH)         HEATING (F) MIN / MAX         COOLING (F) MIN / MAX         HSPF         MCA         MOPD         VOLTS/PH/HZ           TRANE PUY-A36NKA7         SS-1         COMM 108         36.0         N/A         -40 / 115         N/A         25.0         31         208/1/60           TRANE PUY-A12NKA7         SS-2         ELEC 197         12.0         N/A         -40 / 115         N/A         11.0         28         208/1/60           TRANE PUZ-A24NHA7         SS-3         GAS STOR. 199         24.0         -4 /70         0 / 115         11.2         19.0         26         208/1/60           TRANE PUZ-A42NKA7         SS-4         MECH 195         42.0         -4 /70         0 / 115         0.3         25.0         31         208/1/60

1. PROVIDE REFRIGERANT AND REFRIGERANT PIPING TO INDOOR UNIT PER MANUFACTURERS REQUIREMENT.

2. PROVIDE WITH WIND GUARD AND ALL ACCESSORIES FOR LOW AMBIENT OPERATION.

3. INSTALL OUTDOOR UNIT ON EQUIPMENT PAD WITH ELEVATED PREFAB EQUIPMENT STAND OR WALL BRACKET AS INDICATED ON DRAWINGS.

4. ACCEPTABLE MANUFACTURERS: CARRIER OR EQUAL. 5. REFERENCE MECHANICAL ELECTRICAL COORDINATION SCHEDULE ON ELECTRICAL DRAWINGS FOR SHORT CIRCUIT CURRENT RATING.



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2/8/2023 3-22030

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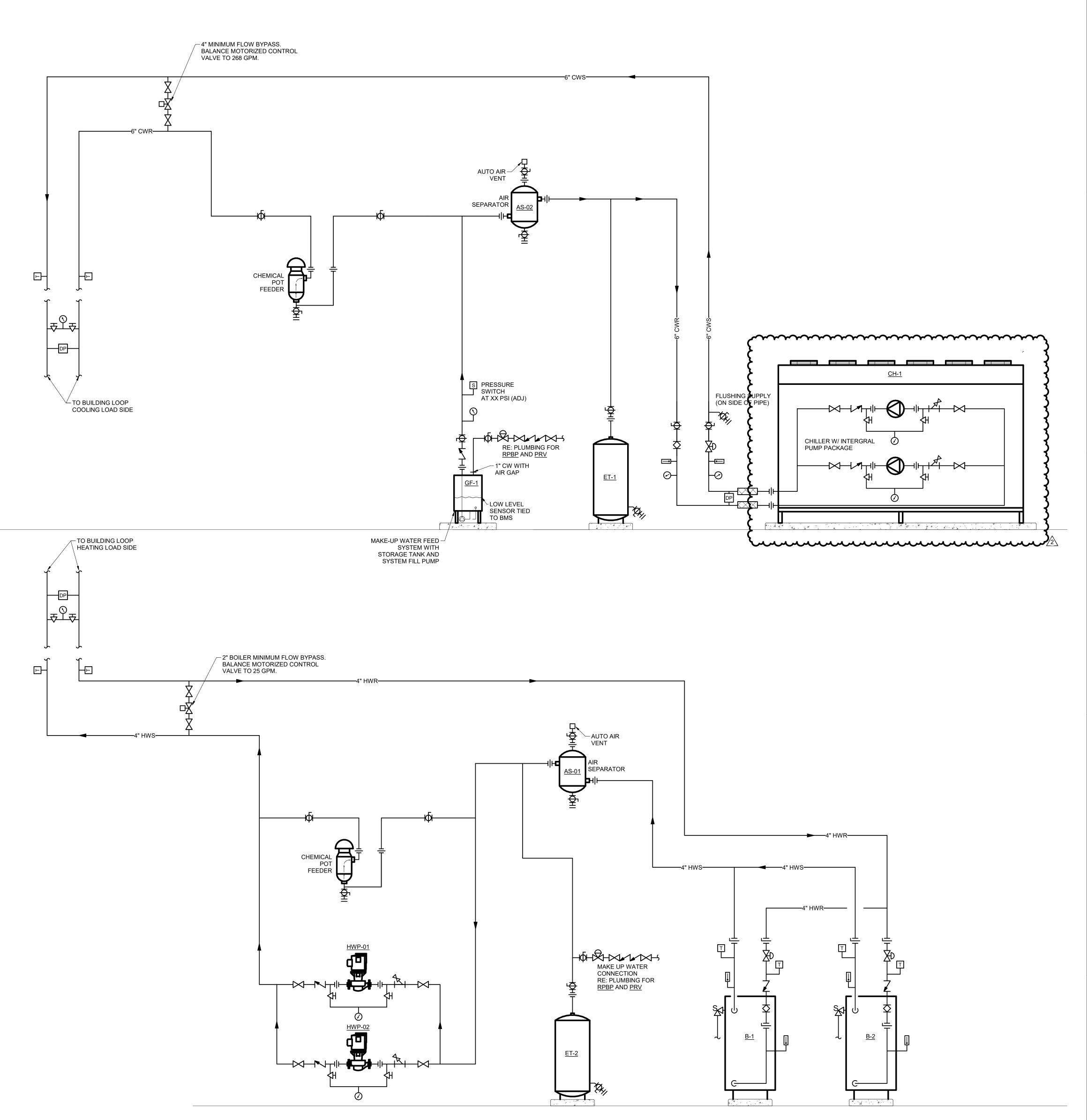
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2/8/2023 3-22030 Author

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Number Date Description
2 2/20/23 ADDENDUM #2



#### CHILLED WATER SYSTEM SEQUENCE:

THE CHILLED WATER SYSTEM SHALL OPERATE WHEN THERE IS A COOLING DEMAND BY ANY AIR HANDLING UNIT CHILLED WATER COIL. THE PIPING SYSTEM IS CONFIGURED IN A VARIABLE PRIMARY CONFIGURATION WITH VARIABLE VOLUME PRIMARY PUMPS.

THE BAS SHALL ENABLE/DISABLE THE CHILLER SYSTEMS. CHILLER SHALL BE PROVIDED WITH A BACNET INTERFACE TO COMMUNICATE WITH THE BAS. ALL AVAILABLE CHILLER POINTS SHALL BE MAPPED TO THE BAS AND INDICATED ON THE FRONT END WORKSTATION. THE AIR-COOLED CHILLER SHALL BE CONTROLLED BY THE MANUFACTURER'S PACKAGED CONTROLS. THE BUILDING AUTOMATION SYSTEM SHALL HAVE THE CAPABILITY TO TURN ON/OFF THE CHILLER AND ASSOCIATED VARIABLE SPEED PRIMARY PUMPS, AND ADJUST LEAVING WATER TEMPERATURE SET POINTS. BUILDING AUTOMATION SYSTEM SHALL ALSO MONITOR CONDENSER FAN MOTORS, REFRIGERANT CIRCUITS, COMPRESSOR STATUS AND RUN HOURS AND ANY/ALL ALARMS SEEN FROM CHILLER.

THE BAS SHALL CONTROL CHILLERS TO MAINTAIN CHILLED WATER SUPPLY SET POINT OF 40°F (ADJ.) AND A LOW TEMP CHILLED WATER SUPPLY SET POINT OF 35°F (ADJ.).

UPON COMMAND OF A CHILLER TO START, IT SHALL START ONCE THE HARD WIRED FLOW SWITCH DETECTS FLOW.

PRIMARY PUMP CONTROL THE BAS SHALL PERMIT THE OPERATING VARIABLE VOLUME PUMP(S) TO OPERATE YEAR ROUND. TWO PUMPS ARE BEING PROVIDED WITH ONE WILL SERVE AS STANDBY. THE BAS SHALL DETERMINE WHICH PUMP IS THE "LEAD" PUMP. THE BAS SHALL AUTOMATICALLY ALTERNATE THE LEAD PUMP TO THE LAG PUMP AT THE BEGINNING OF EACH MONTH.

CURRENT SWITCHES SHALL PROVIDE INPUT TO BAS FOR "PROOF OF FLOW".

TEMPERATURE SENSORS LOCATED IN THE SUPPLY AND RETURN SHALL BE USED MONITOR CHILLED WATER TEMPERATURE.

THE BAS CONTRACTOR SHALL FURNISH A DIFFERENTIAL PRESSURE SENSOR FOR THE DISTRIBUTION SYSTEM. REFER TO THE DRAWINGS FOR THE SUGGESTED LOCATIONS AND PIPING ARRANGEMENT. THE FINAL LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER BEFORE INSTALLATION. THE SENSORS SHALL BE INSTALLED BY THE HVAC CONTRACTOR AND WIRED BY THE BAS CONTRACTOR. PIPING SHALL BE AS SHOWN ON THE DRAWINGS. THE BAS SHALL MODULATE THE SPEED OF THE WATER SUPPLY PUMP(S) VIA A 4-20 MA SIGNAL TO THE VFD AS REQUIRED TO MAINTAIN THE DIFFERENTIAL PRESSURE SET POINT. THE BAS SHALL STAGE ON PUMPS AS REQUIRED TO MAINTAIN DIFFERENTIALPRESSURE SET POINT AND MINIMUM CHILLED WATER FLOW AS RECOMMENDED BY THE MANUFACTURER. PROVIDE START/STOP OUTPUT AND ALARM INPUTS FOR THE VARIABLE FREQUENCY DRIVE (VFD) FOR EACH PUMP.

ALARM CONTACTS FROM THE PUMP VFDS SHALL BE WIRED TO THE BAS TO PROVIDE AN ALARM SIGNAL AT THE FRONT END WORKSTATION.

FREEZE PROTECTION WHEN AIR TEMPERATURE DROPS BELOW 36°F (ADJ) THE CHILLED WATER PUMPS SHALL ACTIVATE TO FLOW WATER THROUGH CHILLED WATER COILS AS METHOD OF FREEZE

### FIN TUBE RADIATOR CONTROLS SEQUENCES

A. CONTROL VALVE ON FIN TUBE RADIATOR SHALL BE TIED INTO VAV BOX VALVE SERVING WAITING ROOM. WHEN VAV HAS A CALL FOR HEAT, FTR CONTROL VALVE SHALL MODULATE OPEN. B. WHEN HEAT NO LONGER REQUIRED, FTR CONTROL VALVE SHALL MODULATE CLOSE.

1 SPLIT SYSTEM MONITORING

26 AUTOMATIC TRANSFER SWITCH

27 AUTOMATIC TRANSFER SWITCH

28 AUTOMATIC TRANSFER SWITCH

30 FROZEN TISSUE FREEZER

31 ROOM PRESSURE MONITOR

32 ROOM PRESSURE MONITOR

33 ROOM PRESSURE MONITOR

34 ROOM PRESSURE MONITOR

37 HUMIDITY SENSOR

35 TEMPERATURE & HUMIDITY SENSOR

36 TEMPERATURE & HUMIDITY SENSOR

29 NOURISHMENT REFRIGERATOR TEMPERATURE SENSOR

MISC. BAS CONTROL/MONITORING POINTS

DESCRIPTION

#### **BOILER CONTROLS SEQUENCES**

BUILDING HOT WATER BOILERS B-01, B-02: A. THE HOT WATER PLANT WILL BE ENABLED WHENEVER THERE IS A CALL FOR HEATING FOR FIFTEEN (15) MINUTES. CALL FOR HEATING WILL BE DEFINED AS ANY HEATING COMPONENT OF THE HVAC SYSTEM NOT BEING ABLE TO MAINTAIN -3 DEG-F FROM THE CURRENT SETPOINT. B. THE HOT WATER PLANT WILL BE DISABLED WHENEVER THERE HAS BEEN NO CALL FOR HEATING FOR ONE HOUR. C. SYSTEM MINIMUM FLOW WILL BE PROVIDED BY THE SYSTEM BYPASS OPENED AND THE PACKAGED PUMP SYSTEM DESIGNED TO MAINTAIN MINIMUM FLOW. D. THE HOT WATER BOILERS AND THEIR RESPECTIVE TWO-POSITION CONTROL VALVES WILL BE ENABLED FROM THE DDC SYSTEM. EACH OF THE BOILERS WILL BE SEQUENCED ON AND OFF OR OPENED AND CLOSED FROM SUPPLY WATER TEMPERATURE AS REQUIRED TO MAINTAIN 1300F (ADJUSTABLE) SUPPLY WATER TEMPERATURE. E. EACH OF THE BOILERS INTERNAL FACTORY MOUNTED CONTROLS WILL CONTROL THE FIRING OF ITS OWN BOILER. WHENEVER A BOILER IS SHUT OFF, ITS RESPECTIVE TWO-POSITION CONTROL VALVE SHALL CLOSE AND WHENEVER A BOILER IS ACTIVATED, ITS RESPECTIVE TWO-POSITION CONTROL VALVE SHALL OPEN. F. CYCLE ALL BOILERS USING ITS PRE-PROGRAMMED PARALLEL MODULATION STAGING LOGIC TO MAXIMIZE HIGHER PART-LOAD (LOW FIRE) EFFICIENCY AND MINIMIZE ON/OFF SHORT CYCLING OF ANY BOILER. G. PROVIDE ALARM STATUS AND HISTORY TO THE BMS H. SEAMLESSLY INTERFACE WITH THE BMS FOR MONITORING AND ALARMS I. UTILIZE ITS OWN OUTSIDE AIR TEMPERATURE SENSOR FOR ITS PRE-PROGRAMMED WATER TEMPERATURE RESET CONTROL. RESET THE HEATING WATER TEMPERATURE ACCORDING TO THE FOLLOWING RESET SCHEDULE:

OUTSIDE AIR TEMPERATURE (OAT) 30°F

60°F

FLOW, AN ALARM WILL BE SENT TO THE BAS.

WATER SUPPLY TEMPERATURE 130°F

110°F

J. THE DDC SYSTEM WILL ENABLE THE HEATING WATER PUMPING SYSTEM TO OPERATE THE PUMPS, HWP-01, -02, ON A LEAD/LAG SEQUENCE, BASED ON THE OWNERS-DEFINED SCHEDULE AND PER THE PUMP CONTROLLER. ONCE THE PUMPING SYSTEM HAS PROVEN FLOW THROUGH THE HEATING WATER SYSTEM DIFFERENTIAL PRESSURE SWITCH, THE BOILER SYSTEM WILL BE ENABLED. THE HEATING WATER PUMPING SYSTEM CONTROLS WILL MODULATE THE PUMP'S TO MAINTAIN THE HEATING WATER DIFFERENTIAL PRESSURE SET POINT (AS SENSED BY HEATING WATER SYSTEM DIFFERENTIAL PRESSURE SENSOR). IF THE PUMPING SYSTEM DOES NOT PROVE

#### **EXHAUST FAN CONTROLS SEQUENCES**

A. EXHAUST FANS SHALL BE ENABLED DURING BUSINESS HOURS WHEN THE BUILDING IS SCHEDULED OCCUPIED AND DISABLED WHEN THE BUILDING IS SCHEDULED UNOCCUPIED. B. EF-1: SERVES THE DECONTAMINATION ROOM. FAN SHALL OPERATE AT A CONSTANT VOLUME PER THE SCHEDULED EXHAUST REQUIREMENT FOR THIS AREA. C. EF-2: SERVES THE STERILIZATION ROOMS. FAN SHALL OPERATE AT A CONSTANT VOLUME PER THE SCHEDULED EXHAUST REQUIREMENT FOR THIS AREA. D. EF-3: SERVES GENERAL EXHAUST FOR BUILDING. FAN SHALL OPERATE AT A CONSTANT VOLUME PER THE SCHEDULED EXHAUST REQUIREMENT FOR THIS AREA E. EF-4: SERVES THE MANIFOLD/GAS STORAGE ROOM. FAN SHALL OPERATE AT A CONSTANT VOLUME 24/7. PROVIDE MONITOR AND ALARM.

#### **CABINET UNIT HEATER CONTROLS SEQUENCES**

- ON A CALL FOR HEAT FROM THERMOSTAT, CONTROL VALVE SHALL MODULATE OPEN AND FAN SHALL ENERGIZE
- WHEN SPACE TEMPERATURE IS SATISFIED, CONTROL VALVE SHALL MODULATE CLOSE AND FAN SHALL POWER OFF

POINT FUNCTION

STATUS, FAULT DETECTION

STATUS

STATUS

STATUS

186 - STERILE STORAGE | TEMPERATURE, STATUS, HIGH/LOW ALARM

TEMPERATURE, STATUS, HIGH/LOW ALARM

LOCAL ROOM TEMPERATURE & HUMIDITY STATUS

LOCAL ROOM TEMPERATURE & HUMIDITY STATUS

152 - GI PROCEDURE AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM

153 - SCOPE DECON AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM

154 - SCOPE STORAGE AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM

156 - GI PROCEDURE AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM

LOCAL ROOM HUMIDITY STATUS

ATS-CR1

ATS-CR2 ATS-EQ1

131 - NOURISH

176 - PATH LAB

122 - MEDS

2	SPLIT SYSTEM MONITORING	SS-2	STATUS, FAULT DETECTION
3	SPLIT SYSTEM MONITORING	SS-3	STATUS, FAULT DETECTION
4	SPLIT SYSTEM MONITORING	SS-4	STATUS, FAULT DETECTION
5	SPLIT SYSTEM MONITORING	SS-5	STATUS, FAULT DETECTION
6	SPLIT SYSTEM MONITORING	SS-6	STATUS, FAULT DETECTION
7	ROOM PRESSURE MONITOR	181 - OR 1	AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM
8	ROOM PRESSURE MONITOR	183 - OR 2	AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM
9	ROOM PRESSURE MONITOR	185 - OR 3	AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM
10	ROOM PRESSURE MONITOR	182 - DECON	AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM
11	ROOM PRESSURE MONITOR	171 - STERILE ASSEM.	AIR DIFFERENTIAL PRESSURE, STATUS, HIGH/LOW ALARM
12	DOMESTIC WATER RECIRCULATION PUMP	CP-1	STATUS
13	NURSE STATION AHU FILTER MONITOR	AHU-1	AIR DIFFERENTIAL PRESSURE
14	NURSE STATION AHU FILTER MONITOR	AHU-2	AIR DIFFERENTIAL PRESSURE
15	AHU EMERGENCY POWER OFF SWITCH	AHU-1	STATUS
16	AHU EMERGENCY POWER OFF SWITCH	AHU-2	STATUS
17	MEDICAL VACUUM PUMP	MVP-1	STATUS
18	MEDICAL AIR COMPRESSOR	MAC-1	STATUS
19	INSTRUMENT AIR COMPRESSOR	IAC-1	STATUS
20	RO/DI WATER SYSTEM	DI-1	STATUS
21	WATER SOFTENER SYSTEM	WS-1	STATUS
22	HUMIDIFIER	HUM-1	STATUS
23	HUMIDIFIER	HUM-2	STATUS
24	MEDICAL REFRIGERATOR		TEMPERATURE, STATUS, HIGH/LOW ALARM
25	AUTOMATIC TRANSFER SWITCH	ATS-LS1	STATUS

EQUIPMENT/

**AREA SERVED** 

CONSTRUCTION



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## MEP CONSULTANT

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816.531.4144

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Job Number Drawn By Checked By

Author Checker

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ASI #1 ASI#4

2/8/2023

3-22030

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MECHANICAL CONTROLS

# FIRE PROTECTION GENERAL NOTES

- THE SPRINKLER SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13, 2012 INTERNATIONAL FIRE CODE, 2012 INTERNATIONAL BUILDING CODE. ALL ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS SHALL BE SPRINKLED AS ORDINARY HAZARD GROUP 2 (0.2 GPM/SQ. FT). REFER TO FP101 FOR ADDITIONAL COVERAGE REQUIREMENTS. ALL SPRINKLERS SHALL BE QUICK RESPONSE TYPE UNLESS REQUIRED OTHERWISE BY CODE.
- PIPING SIZED BY HYDRAULIC CALCULATION METHOD IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA 13 AND SHALL BE SO STATED IN THE SUBMITTAL.
- ALL FIRE PROTECTION WORK SHALL MEET ALL OF THE REQUIREMENTS OF NFPA AND LOCAL AND STATE AUTHORITIES HAVING JURISDICTION. ALL MATERIALS, METHODS, AND DESIGN SHALL BE PER CURRENT EDITION OF NFPA 13 AND SHALL BE SO STATED IN THE SUBMITTAL. FLUSH AND TEST SYSTEM IN ACCORDANCE WITH NFPA 13, 24 AND LOCAL CODES.

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- THE CONTRACTOR SHALL SUBMIT A SEALED SET OF INSTALLATION "SHOP" DRAWINGS, HYDRAULIC CALCULATIONS AND MATERIAL DATA FOR THE ENGINEER'S REVIEW PRIOR TO CONSTRUCTION. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
- SPRINKLER SYSTEMS SHALL BE INSTALLED BY PERSONNEL WHO HAVE ENGINEERING FACILITIES AND EXPERIENCE IN SUCH WORK AND WHO ARE REGULARLY EMPLOYED TO DO SUCH WORK.
- SPRINKLERS SHALL BE AS REQUIRED BY NFPA 13. WHERE EXCESSIVE TEMPERATURES ARE ANTICIPATED, HIGH TEMPERATURE HEADS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13. THE CONTRACTOR SHALL INDICATE SPRINKLER TEMPERATURE RATING, ORIFICE SIZE AND TYPE ON FINAL DRAWINGS. SPRINKLERS IN FINISHED AREAS TO BE CONCEALED TYPE. SPRINKLER AND ESCUTCHEON TO BE CHROME PLATED IN
- COORDINATE EXACT LOCATION OF SPRINKLERS. PIPING AND EQUIPMENT WITH CEILING, ELECTRICAL. MECHANICAL AND STRUCTURAL COMPONENTS OF BUILDING. MAKE MODIFICATIONS WITHOUT ADDITIONAL COST
- B. ALL MATERIAL SHALL BE UL LISTED AND NFPA APPROVED.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE WALLS WHICH FIRE PROTECTION PIPING PENETRATES. FIRE PROTECTION PIPING SHALL BE FIRE SAFED IN AN APPROVED MANNER WHEN PENETRATING WALLS AND FLOORS. PROVIDE SLEEVES OR OTHER APPROVED MEANS AND SEAL OPENINGS IN WALLS, FLOORS, AND PARTITIONS IN SUCH A MANNER AS TO MAINTAIN THE SMOKE AND FIRE RATING OF THAT WALL, FLOOR OR CEILING.
- 10. SPACING OF SPRINKLERS: THE SPACING AND SIZES OF PIPES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13. SPRINKLERS SHALL BE WITHIN 6" OF CENTER OF TILE. PROVIDE SWING JOINT IF REQUIRED TO ACCOMPLISH THIS. SPRINKLERS SHALL BE AT LEAST 6" FROM ANY CEILING FIXTURE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF SPRINKLERS AND PIPING WITH THE LIGHTING AND AIR DISTRIBUTION DRAWINGS. COORDINATE WITH ANY LIGHTING FIXTURES THAT MAY EXTEND BELOW THE CEILING TO AVOID OBSTRUCTION AS DEFINED BY NFPA 13.
- 11. PIPING: SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE AND FITTINGS CONFORMING TO ASTM A-53. MINIMUM SIZE IS ONE INCH.
- 12. PIPE SUPPORTS, HANGERS, CLAMPS, RODS AND OTHER ACCESSORIES: SHALL BE OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING FURNISHED AND INSTALLED. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS. PROVIDE ALL HANGERS INCLUDING TRAPEZE HANGERS AS REQUIRED TO COMPLY WITH NFPA 13. IF BAR JOIST CONSTRUCTION IS USED, HANG TO TOP CORD OF BAR JOIST ONLY. PROVIDE ANY ADDITIONAL DRAINS REQUIRED TO COMPLY WITH NFPA 13 AND LOCAL CODES WITHOUT ADDITIONAL COST TO OWNER. HANGERS HAVE NOT BEEN SHOWN FOR
- 13. ALL WORK TO BE TESTED AT 200 PSI FOR 2 HOURS. TEST TO BE WITNESSED BY KANSAS CITY FIRE DEPARTMENT. CALL THE FIRE DEPARTMENT 24 HOURS IN ADVANCE TO SCHEDULE THE SPRINKLER HYDROSTATIC AND ACCEPTANCE TEST. ALL TEST TO BE PER NFPA.
- 14. SPRINKLER PIPING TO BE RUN CONCEALED ABOVE THE FINISHED CEILING.
- 15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING THE LOCATION OF ALL INSPECTOR'S TEST VALVES. THERE SHOULD BE AT LEAST ONE INSPECTOR'S TEST CONNECTION FOR EACH ZONE AND THE PREACTION SYSTEM. DISCHARGE TEST CONNECTION TO OUTSIDE, OR OTHER ADEQUATE DRAIN. PROVIDE AND INSTALL ACCESS PANELS AS REQUIRED.
- 16. ALL UNDERGROUND WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-24 REQUIREMENTS BY A STATE LICENSED CONTRACTOR. UNDERGROUND PIPE TO BE PVC DR-14 WITH MECHANICAL JOINT FITTINGS, RESTRAINED PER NFPA REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO LEAVE TO NATURAL STATE ALL AREAS AFFECTED BY EXCAVATION AND INSTALLATION OF NEW FIRE MAIN.
- 17. ALL TRAPPED SECTIONS OF WATER TO BE PROVIDED WITH AUXILIARY DRAINS, AS REQUIRED BY NFPA-13. DRAINS TO BE 1" GLOBE VALVE WITH NIPPLE AND CAP. IF TRAPPED SECTION IS OVER 50 GAL, PIPE TO AN APPROVED LOCATION. INSTALL SIGNS AS REQUIRED. PROVIDED CAPS AT THE END OF EACH MAIN FOR FLUSHING PURPOSES.
- 18. TAMPER SWITCHES AND FLOW SWITCHES SHALL BE CONNECTED FOR SUPERVISION AND ALARM TO THE FIRE ALARM PANEL. PROVIDE NECESSARY ELECTRICAL WIRING. CONNECTIONS FROM SWITCHES TO FIRE ALARM PANEL. THOROUGHLY REVIEW FINAL LOCATION, TYPE, MOUNTING HEIGHT AND CONTROL OF ALL DEVICES PRIOR TO ROUGH-IN.
- 19. PROVIDE THE FOLLOWING SYSTEM DATA: PROVIDE COPY TO OWNER'S REP.
- A. HAZARD CLASSIFICATION AREA OF APPLICATION SQ. FT. B. HYDRAULIC DESIGN DENSITY HOSE ALLOWANCES - GPM
- C. HYDRAULIC DESIGN GPM/SQ. FT. D. TOTAL SYSTEMS REQUIREMENTS - GPM AT PSI
- E. HYDRAULIC DESIGN SQ. FT. HD F. WATER SUPPLY STATIC PRESSURE - PSI
- 20. PROVIDE TEST DATA AFTER SYSTEM INSTALLATION.
- 21. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATIONS WITH THE PROPERTY OWNER'S PERSONNEL TO REVIEW CONTRACT DOCUMENTS PRIOR TO INSTALLATION.
- 22. IN GENERAL, PLANS AND DETAILS ARE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED. COORDINATE ALL FIRE PROTECTION WORK WITH ELECTRICAL, PLUMBING AND HVAC WORK SO AS NOT TO CONFLICT IN LOCATION OR PERFORMANCE OF OTHER SYSTEMS.

BUILT" DRAWINGS WILL BE TURNED OVER TO THE OWNER AT THE CONCLUSION OF THE PROJECT.

- 23. THE CONTRACTOR SHALL KEEP A MASTER SET OF BLUE LINE PRINTS THAT ARE TO BE MARKED UP TO REFLECT "AS BUILT" CONDITIONS ON A DAILY BASIS. THESE "AS BUILT" MARK UPS MAY BE REVIEWED BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE, AT THEIR REQUEST AND WITHOUT PRIOR NOTIFICATION. THESE "AS
- 24. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY FEES AND CHARGES IN HIS BID.
- 25. PROVIDE SPARE SPRINKLER FOR EACH SPRINKLER TYPE USED IN BUILDING QUANTITY BY NFPA 13), A SPRINKLER WRENCH AND A SPRINKLER CABINET. THE CABINET SHALL BE MOUNTED ON THE WALL ADJACENT
- 26. FIRE ALARM PANEL FOR REMOTE MONITORING, ALARM, RESET, ETC. WILL BE LOCATED AS INDICATED. REFER TO FIRE ALARM ELECTRICAL DRAWINGS.
- 27. PROVIDE ELECTRONIC DISC FILE FOR ID OF EVERY ITEM IN THE FIRE PROTECTION SYSTEMS INCLUDING FIRE
- 28. VALVE TYPES FOR BRANCH LINES SHALL BE SUPERVISED BALL VALVES, AND FOR THE MAINS (LARGER LINES) USE SUPERVISED OS&Y.
- 29. CONTRACTOR SHALL OBTAIN A CURRENT 2 HYDRANT WATER FLOW TEST OR WATER MODEL DATED WITHIN (12) MONTHS FROM TIME OF SHOP DRAWING SUBMITTAL. ALL HYDRAULIC CALCULATIONS SHALL BE BASED ON THIS
- 30. CALCULATIONS SHOULD MAINTAIN A MINIMUM 10% SPRINKLER SYSTEM SAFETY FACTOR.
- 31. SYSTEM SHALL BE INSTALLED WITH LIGHT HAZARD CLASSIFICATION UNLESS OTHERWISE REQUIRED BY THE AHJ, NFPA, AND IBC REQUIREMENTS. SEE ARCHITECTURAL LIFE SAFETY DRAWINGS AND DETAILS FOR FURTHER BUILDING CLASSIFICATION INFORMATION.
- 32. CONFIRM WITH LOCAL FIRE CHIEF THAT STANDPIPES ARE NOT REQUIRED FOR THIS BUILDING.
- 33. FIRE PROTECTION CONTRACTOR SHALL FULLY PARTICIPATE IN THE BUILDING SYSTEMS COORDINATION PROCESS. THIS INCLUDES MEETING WITH THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS TO DISCUSS PIPE ROUTING. EQUIPMENT LOCATIONS AND POTENTIAL AREAS OF CONFLICT. COORDINATION DRAWINGS MUST BE SUBMITTED SHOWING FIRE SPRINKLER PIPING AND SPRINKLERS FULLY COORDINATED WITH ALL OTHER TRADES. CONFLICTS THAT ARISE IN THE FIELD DURING INSTALLATION WILL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- 34. FIRE PROTECTION CONTRACTOR SHALL BE AWARE THAT DUCTWORK AND HYDRONIC PIPING TAKES PRECEDENCE OVER SPRINKLER PIPING WITH REGARDS TO ABOVE CEILING SPACE. IT IS ASSUMED THAT FOR COORDINATION PURPOSES THE BRANCH SPRINKLER PIPING CAN RUN ABOVE THE BOTTOM OF BEAMS/JOISTS AS REQUIRED. THE CONTRACTOR SHALL BECOME FAMILIAR WITH CEILING HEIGHTS, BEAM DEPTHS, AND DUCTWORK/PIPING LAYOUT PRIOR TO DRAWING FIRE SPRINKLER SHOP DRAWINGS. CEILING SPACE WITH ROOFS ABOVE ARE ESPECIALLY COMPACT AND CAREFUL ATTENTION SHOULD BE PAID TO PIPE SLOPES AND
- 35. LIGHT FIXTURE LOCATIONS IN CEILINGS TAKE PRECEDENCE OVER SPRINKLER HEAD LOCATIONS. CEILING DIFFUSERS MAY BE MOVED TO AN ADJACENT TILE IF THE RELOCATION WILL ELIMINATE THE NEED FOR AN ADDITIONAL SPRINKLER HEAD WITH APPROVAL BY THE ENGINEER.
- 36. THE KANSAS CITY FIRE DEPARTMENT SHALL WITNESS THE FULL FLOW FLUSH TEST PRIOR TO CONNECTION TO THE FIRE SPRINKLER SYSTEM.
- 37. FIRE PROTECTION WATER ENTRY SIZE IS A MINIMUM. PIPE SIZE MAY INCREASE BASED ON SITE FLOW AND
- PRESSURE CONDITIONS.

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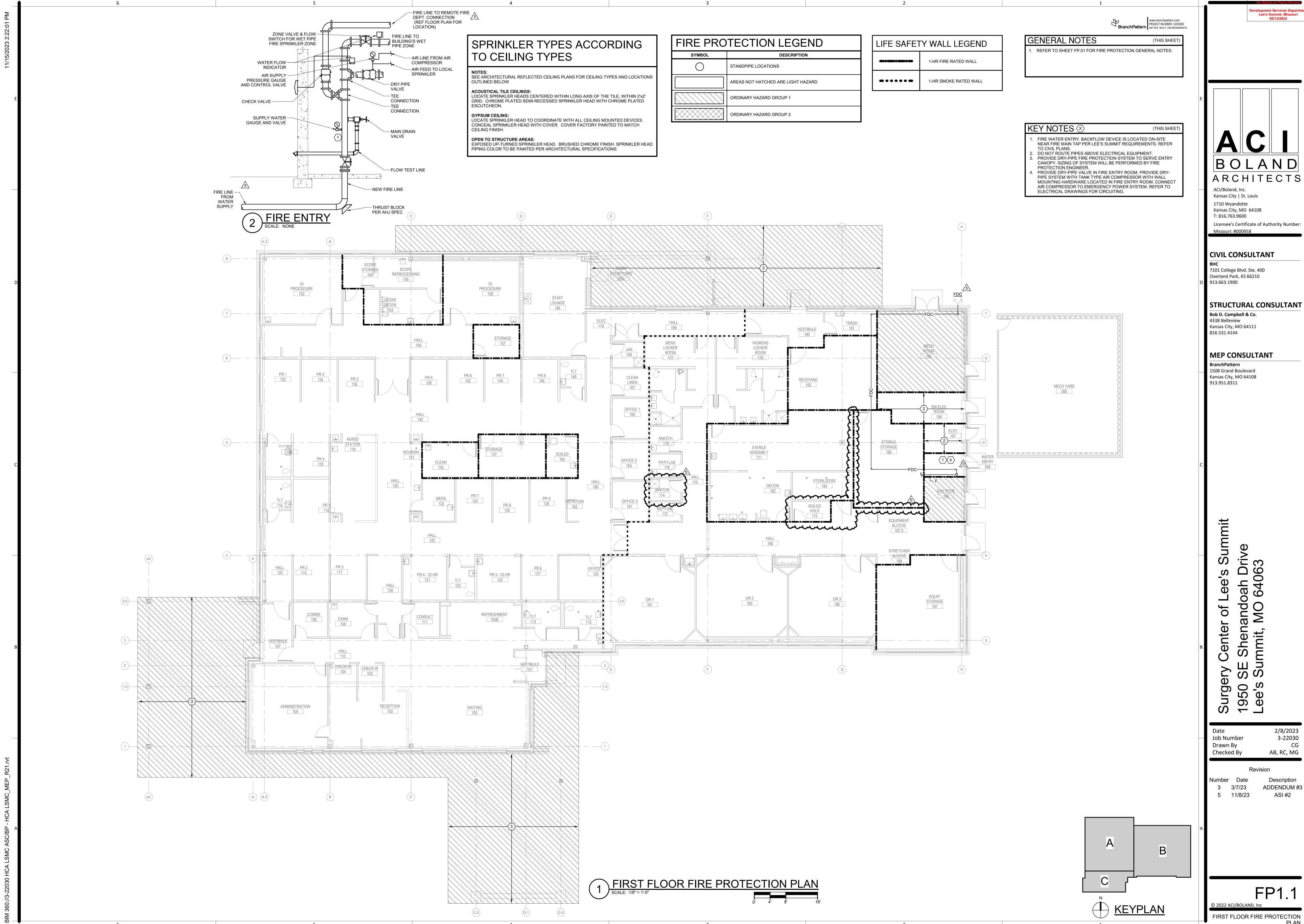
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3 3/7/23 ADDENDUM #3

FIRE PROTECTION GENERAL NOTES



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FP1.1

BOLAND

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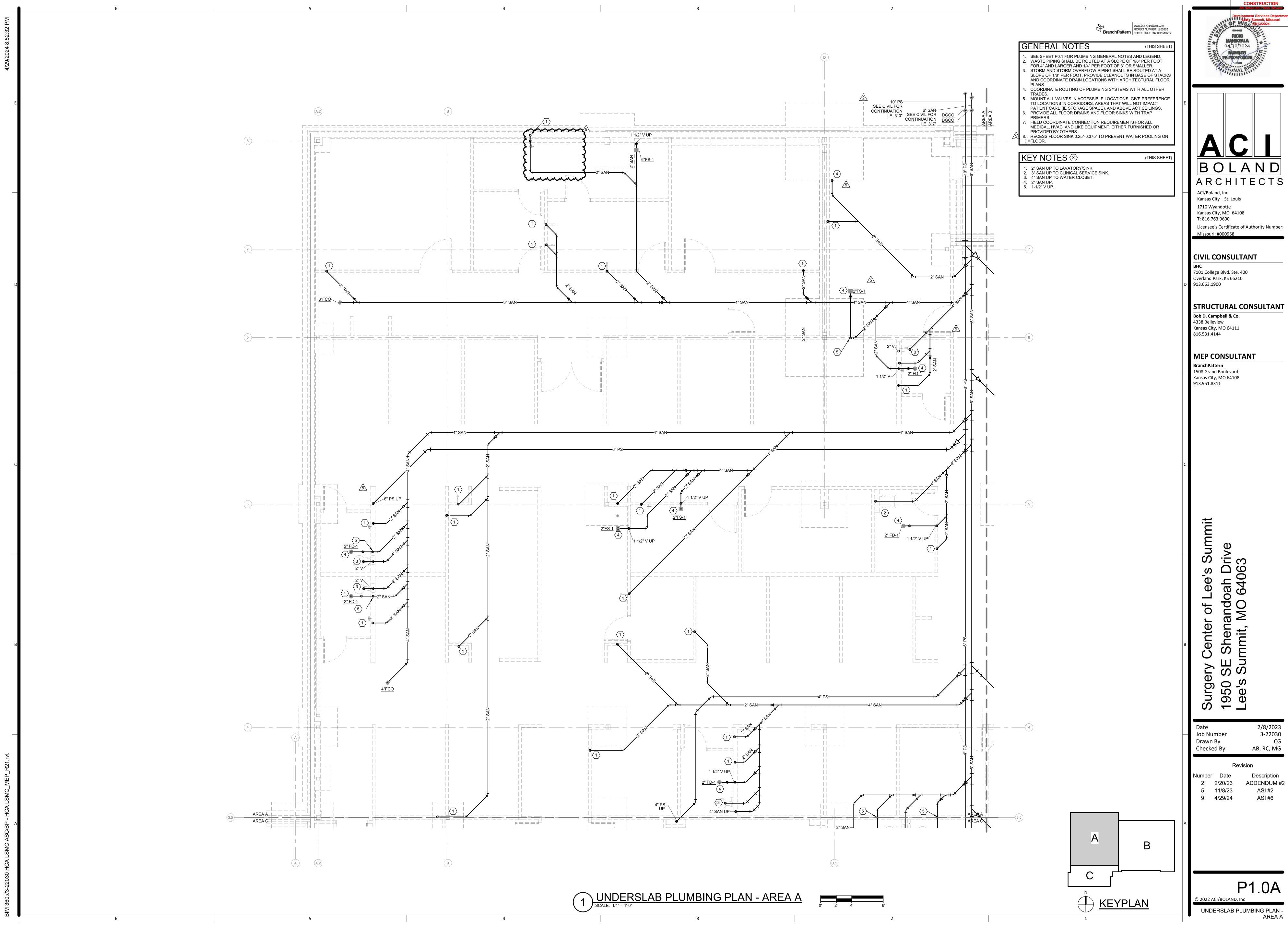
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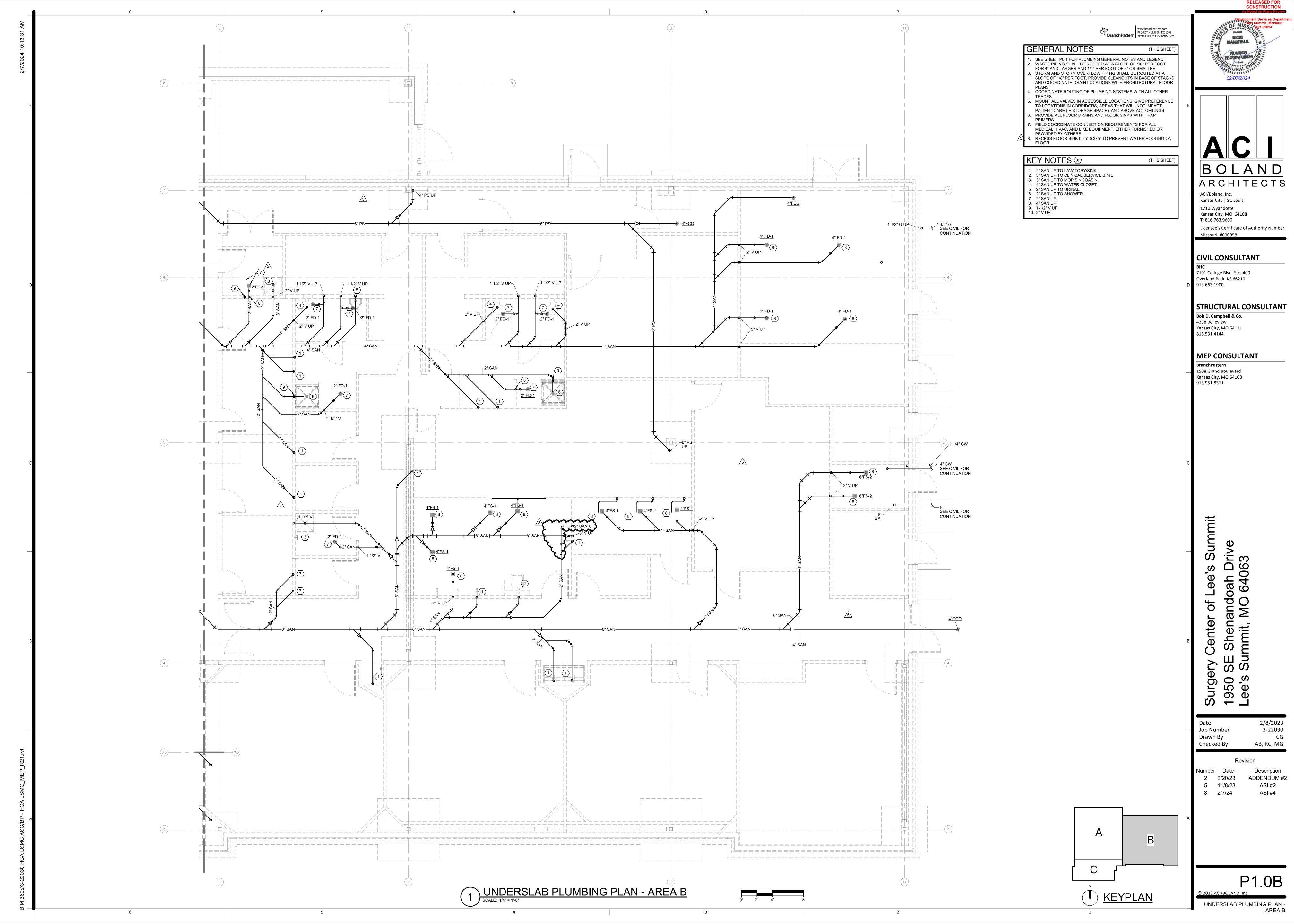
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UNDERSLAB PLUMBING PLAN -OVERALL





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CONSTRUCTION

evelopment Services Department Lee's Summit, Missouri 05/13/2024

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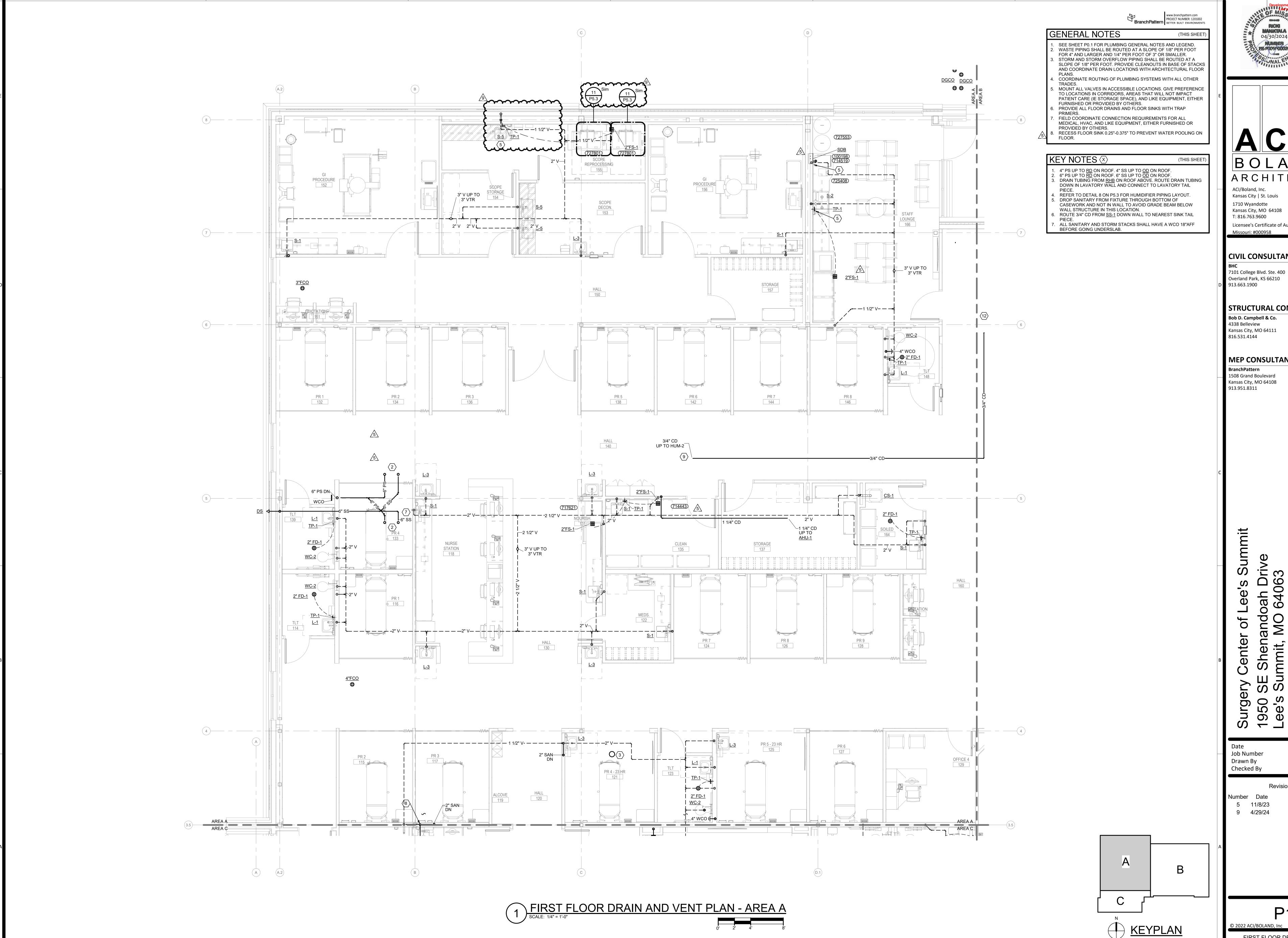
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FIRST FLOOR PLUMBING PLAN -OVERALL



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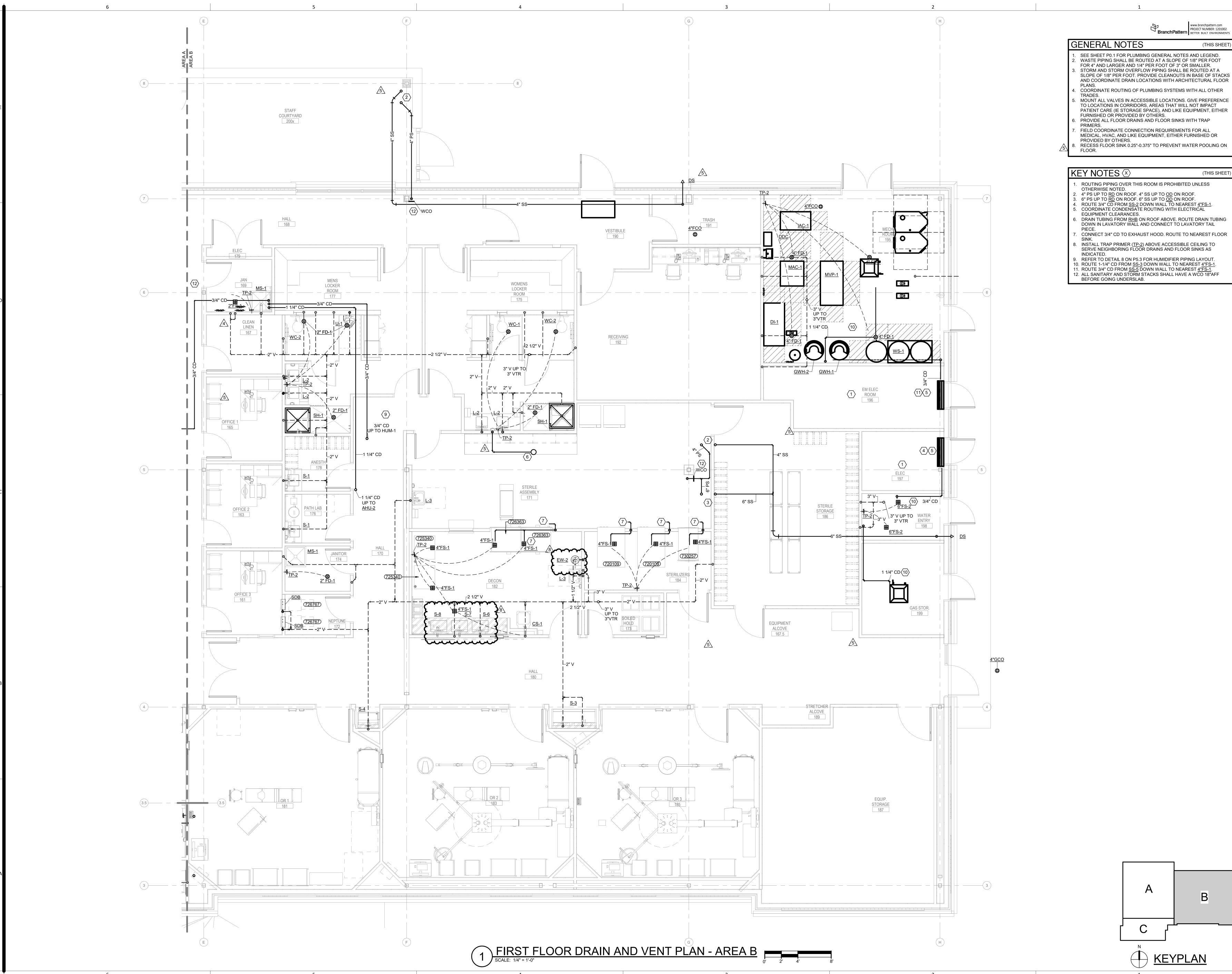
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Description ASI #2 ASI #6

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P1.1A

FIRST FLOOR DRAIN & VENT PLAN - AREA A



SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES AND LEGEND.WASTE PIPING SHALL BE ROUTED AT A SLOPE OF 1/8" PER FOOT FOR 4" AND LARGER AND 1/4" PER FOOT OF 3" OR SMALLER. STORM AND STORM OVERFLOW PIPING SHALL BE ROUTED AT A SLOPE OF 1/8" PER FOOT. PROVIDE CLEANOUTS IN BASE OF STACKS

AND COORDINATE DRAIN LOCATIONS WITH ARCHITECTURAL FLOOR COORDINATE ROUTING OF PLUMBING SYSTEMS WITH ALL OTHER

MOUNT ALL VALVES IN ACCESSIBLE LOCATIONS. GIVE PREFERENCE TO LOCATIONS IN CORRIDORS, AREAS THAT WILL NOT IMPACT

PROVIDE ALL FLOOR DRAINS AND FLOOR SINKS WITH TRAP

FIELD COORDINATE CONNECTION REQUIREMENTS FOR ALL MEDICAL, HVAC, AND LIKE EQUIPMENT, EITHER FURNISHED OR

(THIS SHEET

DRAIN TUBING FROM <u>RHB</u> ON ROOF ABOVE. ROUTE DRAIN TUBING DOWN IN LAVATORY WALL AND CONNECT TO LAVATORY TAIL

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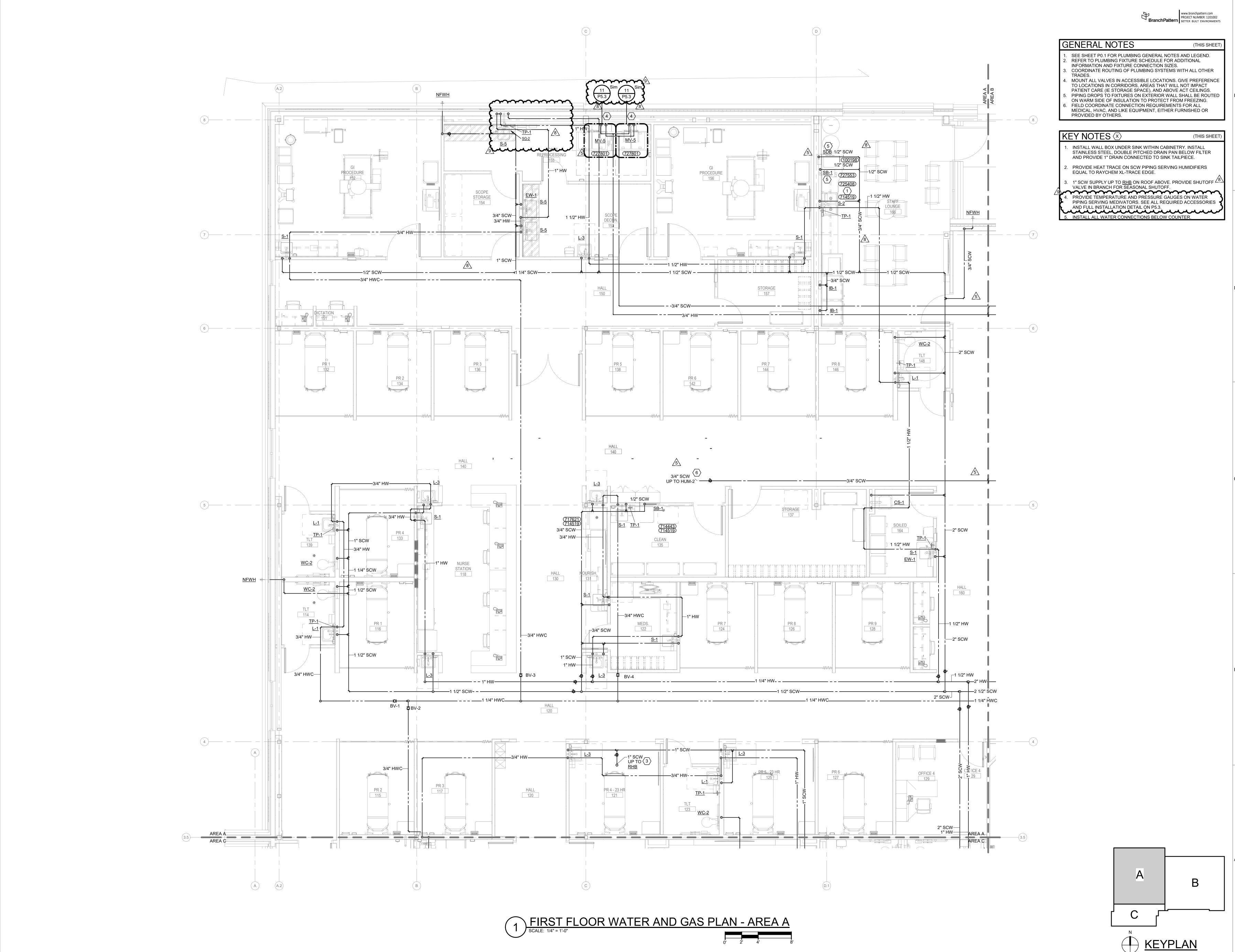
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ASI #1 ASI #2 ASI #4

P1.1B

FIRST FLOOR DRAIN & VENT PLAN - AREA B



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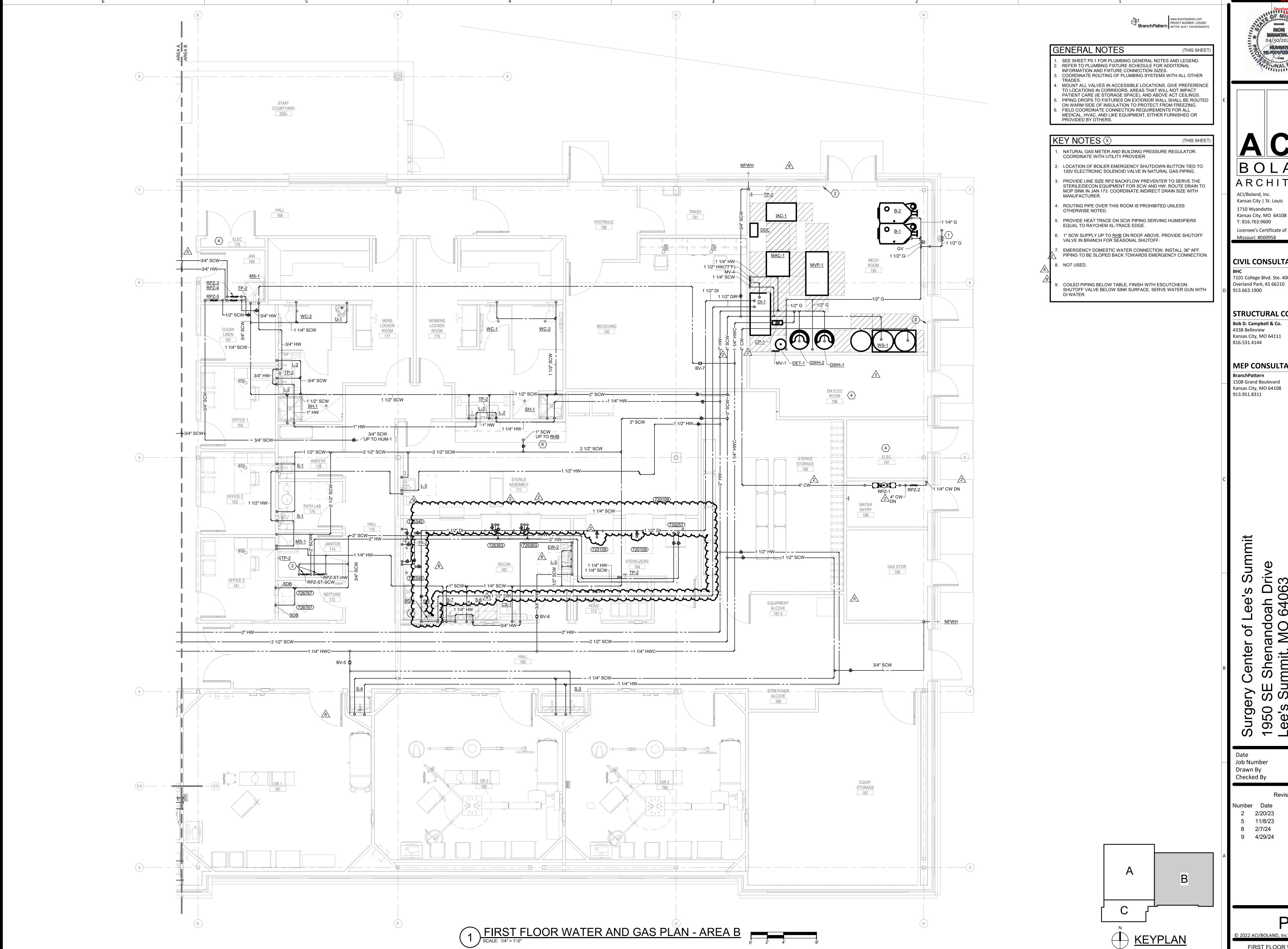
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Description ASI #2 ASI #4 ASI #6

P2.1A

FIRST FLOOR WATER & GAS PLAN - AREA A

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P2.1B

FIRST FLOOR WATER & GAS PLAN - AREA B

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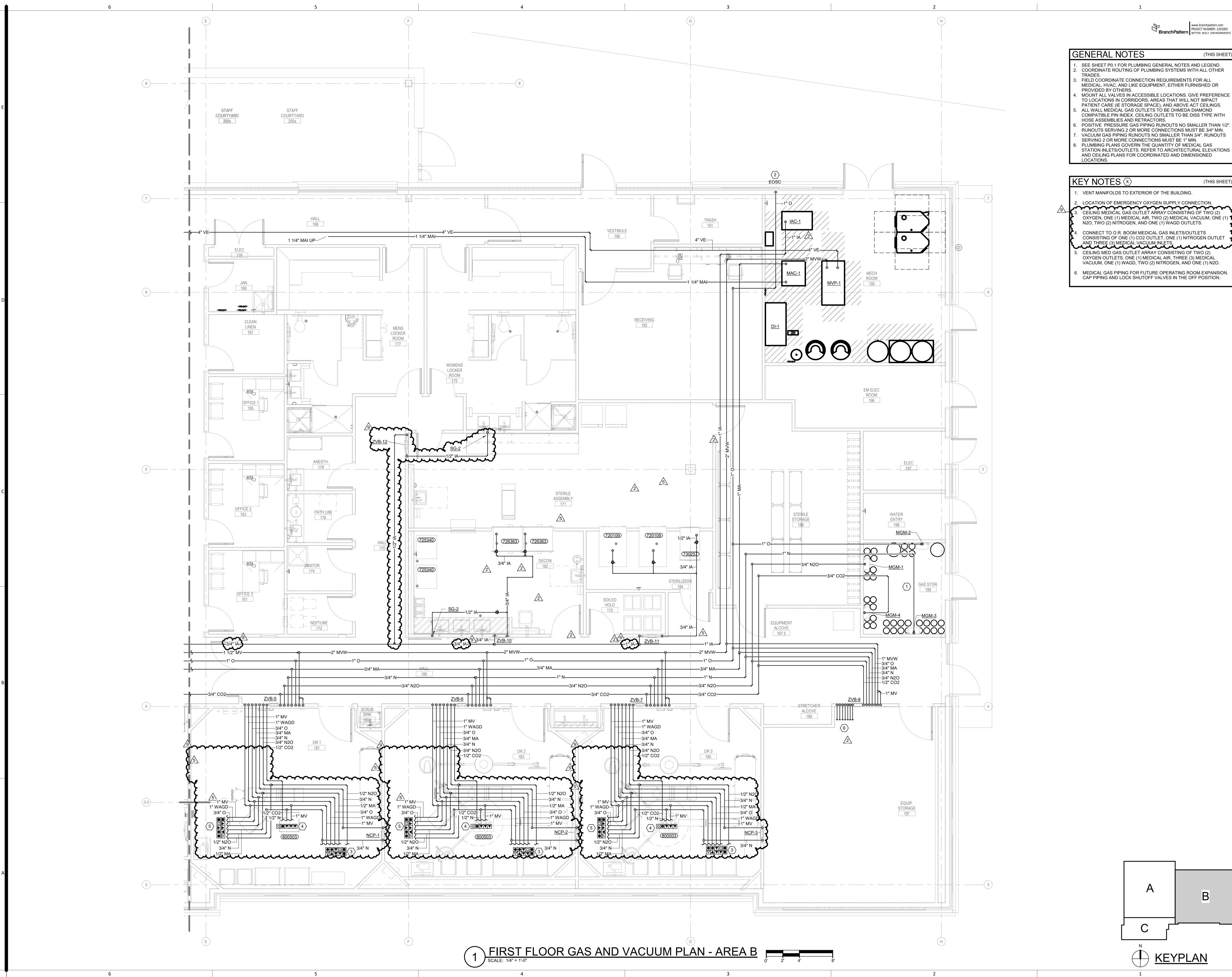
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P3.1A

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FIRST FLOOR GAS & VACUUM PLAN - AREA A



(THIS SHEET

BranchPattern PROJECT NUIVIDEN. 120202

- SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES AND LEGEND.COORDINATE ROUTING OF PLUMBING SYSTEMS WITH ALL OTHER
- FIELD COORDINATE CONNECTION REQUIREMENTS FOR ALL MEDICAL, HVAC, AND LIKE EQUIPMENT, EITHER FURNISHED OR
- MOUNT ALL VALVES IN ACCESSIBLE LOCATIONS. GIVE PREFERENCE TO LOCATIONS IN CORRIDORS, AREAS THAT WILL NOT IMPACT PATIENT CARE (IE STORAGE SPACE), AND ABOVE ACT CEILINGS. ALL WALL MEDICAL GAS OUTLETS TO BE OHMEDA DIAMOND
- COMPATIBLE PIN INDEX. CEILING OUTLETS TO BE DISS TYPE WITH HOSE ASSEMBLIES AND RETRACTORS. POSITIVE PRESSURE GAS PIPING RUNOUTS NO SMALLER THAN 1/2'
- RUNOUTS SERVING 2 OR MORE CONNECTIONS MUST BE 3/4" MIN. VACUUM GAS PIPING RUNOUTS NO SMALLER THAN 3/4". RUNOUTS SERVING 2 OR MORE CONNECTIONS MUST BE 1" MIN. PLUMBING PLANS GOVERN THE QUANTITY OF MEDICAL GAS

(THIS SHEET

. VENT MANIFOLDS TO EXTERIOR OF THE BUILDING. LOCATION OF EMERGENCY OXYGEN SUPPLY CONNECTION. 3. CEILING MEDICAL GAS OUTLET ARRAY CONSISTING OF TWO (2) OXYGEN, ONE (1) MEDICAL AIR, TWO (2) MEDICAL VACUUM, ONE (1)

CONNECT TO O.R. BOOM MEDICAL GAS INLETS/OUTLETS CONSISTING OF ONE (1) CO2 OUTLET, ONE (1) NITROGEN OUTLET AND THREE (3) MEDICAL VACUUM INLETS.

MEDICAL GAS PIPING FOR FUTURE OPERATING ROOM EXPANSION. CAP PIPING AND LOCK SHUTOFF VALVES IN THE OFF POSITION.

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Description
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ASI #6 9 4/29/24

P3.1B

FIRST FLOOR GAS & VACUUM PLAN - AREA B

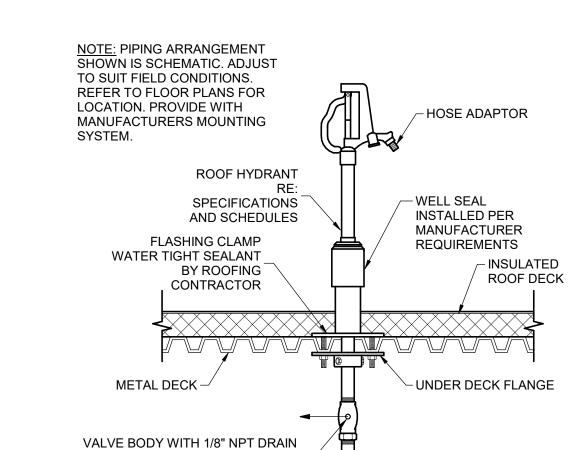
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RELEASED FOR
CONSTRUCTION
As Noted on Plans Review BranchPattern built environments GENERAL NOTES . SEE SHEET M0.1 AND P0.1 FOR LEGENDS AND ADDITIONAL GENERAL NOTES. KEY NOTES 🗵 (THIS SHEET) TERMINATE MEDICAL AIR COMPRESSOR INTAKE WITH GOOSENECK PER DETAIL.

2. HUMIDIFIER SERVED WITH 3/4" SOFTENED COLD WATER FROM BELOW. ROUTE 3/4" DRAIN COOLER DISCHARGE TO NEAREST FLOOR OR MOP SINK IN BACK OF HOUSE SPACE. SEE DETAIL 8 ON BOLAND ARCHITECTS ACI/Boland, Inc. Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 Licensee's Certificate of Authority Number: OD-4" (O)
RD-4" (O) **CIVIL CONSULTANT** 7101 College Blvd. Ste. 400 Overland Park, KS 66210 913.663.1900 STRUCTURAL CONSULTANT Bob D. Campbell & Co. 4338 Belleview Kansas City, MO 64111 816.531.4144 <u>3"VTR</u> **MEP CONSULTANT** BranchPattern / <u>3"VTR</u> 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311 5 — 3"VTR <u>AHU-1</u> • <u>3"VTR</u> f Lee's Summit doah Drive D 64063 4 OD-4"-O O RD-4" of Center 3"VTR Surgery 1950 SE Lee's Su RD-4" OD-4" 2/8/2023 3-22030 CG AB, RC, MG Drawn By © © RD-4" OD-4" Number Date 5 11/8/23 Description ASI #2 RD-4" OD-4" P4.1 **KEYPLAN** © 2022 ACI/BOLAND, Inc ROOF PLUMBING PLAN

Development Services Department Lee's Summit, Missouri 05/13/2024

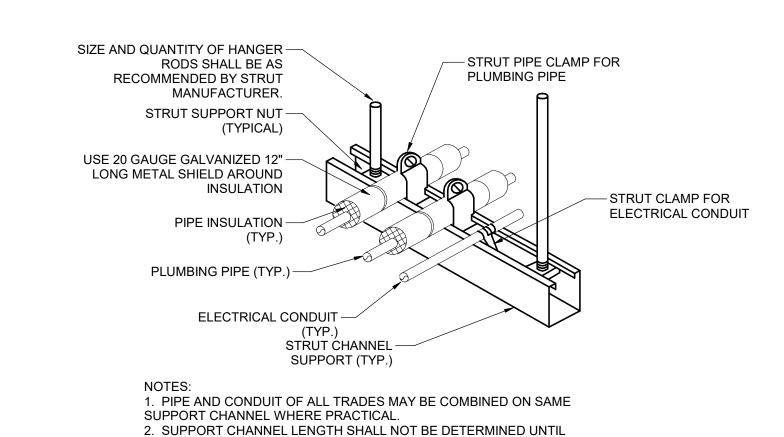
PROJECT NUMBER: 1201002



3 NON-FREEZE ROOF HYDRANT
SCALF: NONE

PORT. ROUTE DISCHARGE TO

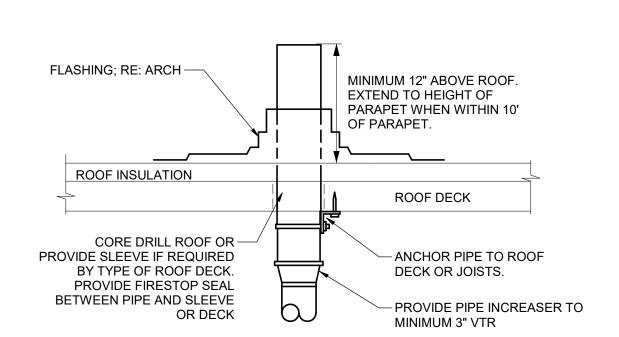
FLOOR SINK, MOP SINK, OR SINK



ALL PIPING AND CONDUIT TO BE SUPPORTED IS COORDINATED.

RE: FLOOR PLANS

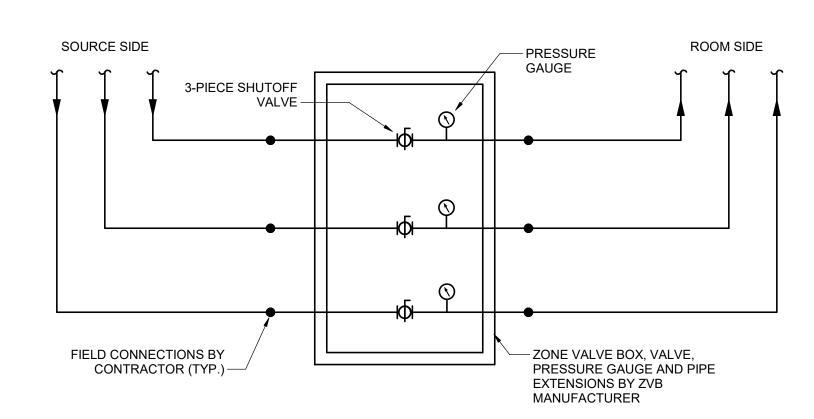
6 TRAPEZE PIPE HANGER
SCALE: NONE



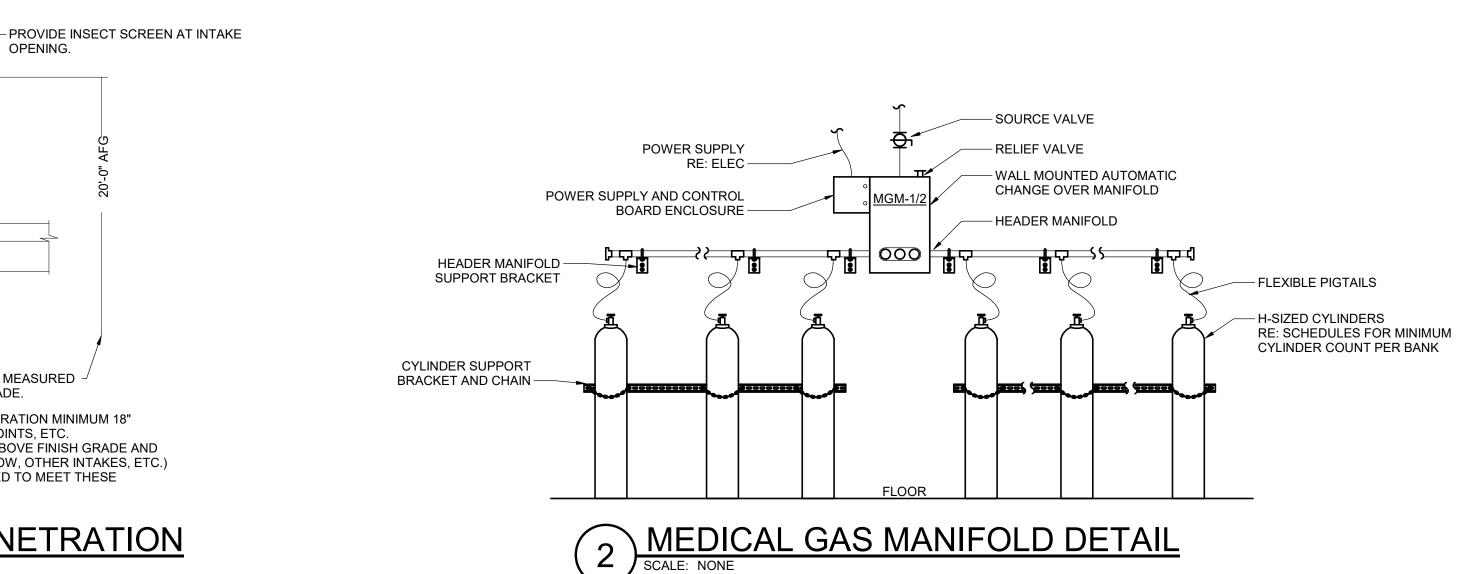
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

VENT THROUGH ROOF

APPLY UV PAINT COATING PER MANUFACTURER FOR PVC.



(RE: PLANS AND SCHEDULES FOR DESIGNATION.) SCHEDULES DICTATE NUMBER OF VALVES REQUIRED FOR EACH PARTICULAR INSTANCE.



MAXIMUM SPACING 2'-0"

CENTERLINE TO

CENTERLINE

TRAPEZE HANGER

COLD

WATER

BARRIER

INSULATION

HANGER ROD (TYP. 3) -

PIPE (NO -

INSULATIÒN)

ROLLER (TYP. 3) -

STAND (TYP. 3) -

LOCKING NUT (TYP. 3) -

**BOLT PIPE ROLLERS** 

TO CHANNEL

CONDITIONS TO ALLOW SPACE FOR OTHER SERVICES.

- INSULATION (NOT VAPOR BARRIER)

- PIPE INSULATION INSERT AT

UNISTRUT OR CHANNEL

SEE STRUCTURAL PLANS

18" MIN. CLEAR

1. WATER HAMMER ARRESTER.

IS ATTACHED.

2. BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH

IN CHASE. OPENING IN BALL VALVE TO MATCH PIPE ID.

3. PIPE SAME SIZE AS BRANCH IN CHASE TO WHICH IT

PANEL OPENING \_\_\_\_\_

1" MIN. CLEAR

- 1-1/2" MIN. CLEARANCE

PANEL OPENING

LEAST 12" LONG



FROM ADJACENT WALLS, EQUIPMENT CURBS, PARAPETS, EXPANSION JOINTS, ETC.

1. REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). LOCATE PENETRATION MINIMUM 18"

AS REQUIRED PER NFPA 99. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE

2. OPENING FOR MEDICAL AIR INTAKE PIPE TO BE A MINIMUM OF 20'-0" ABOVE FINISH GRADE AND

A MINIMUM OF 25'-0" FROM ANY OPENING (EXHAUST, FLUE, DOOR, WINDOW, OTHER INTAKES, ETC.)

FLASHING; RE: ARCH -

ROOF INSULATION

CORE DRILL ROOF OR PROVIDE SLEEVE -

IF REQUIRED BY TYPE OF ROOF DECK.

PROVIDE FIRESTOP SEAL BETWEEN

PIPE AND SLEEVE OR DECK

OPENING.

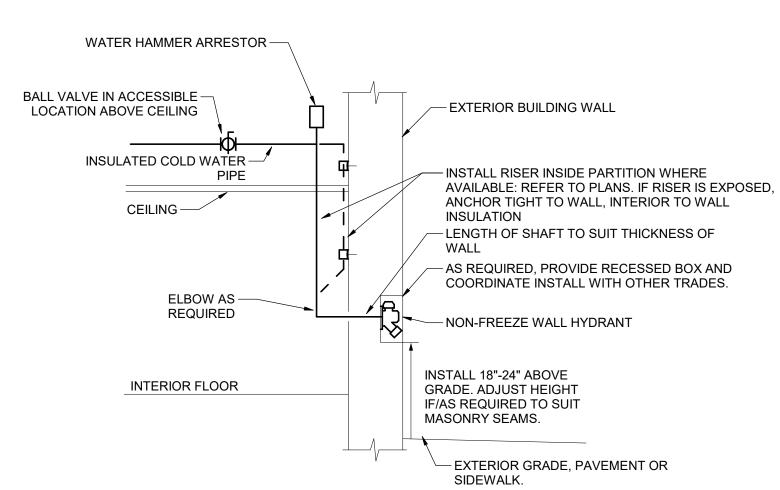
**ROOF DECK** 

- ANCHOR PIPE TO

ROOF DECK OR

FROM FINISH GRADE.

OPENING HEIGHT MEASURED -



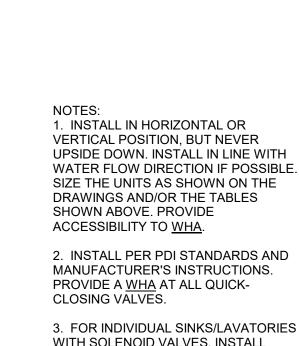
- PIPE SLEEVE

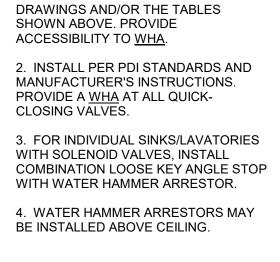
FOR ANCHOR

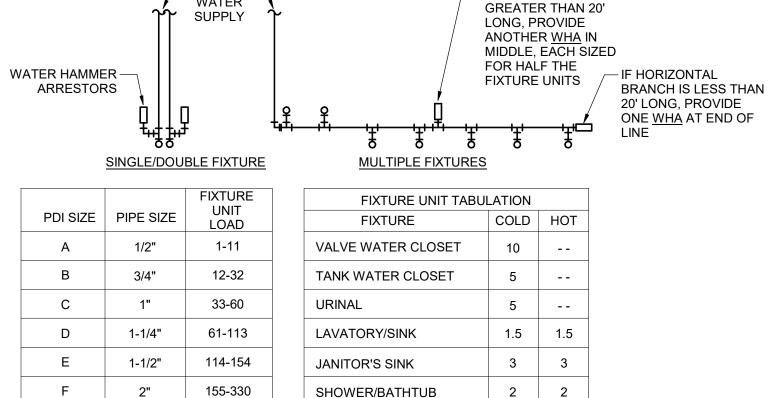
-3/4" CHAMFER

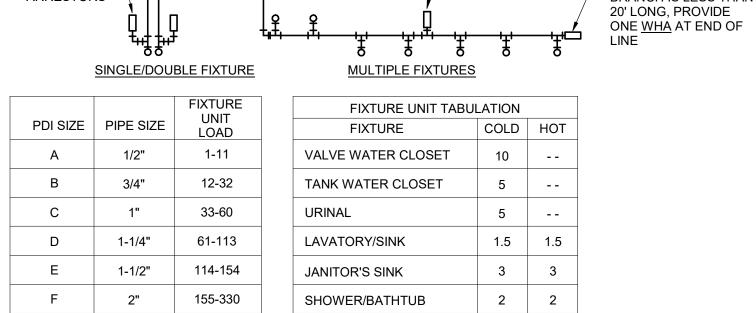
BOLTS (TYP.)













## NOTE: 1. PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTER. WATER HAMMER ARRESTOR AND PANEL

16 GAGE STEEL SADDLE

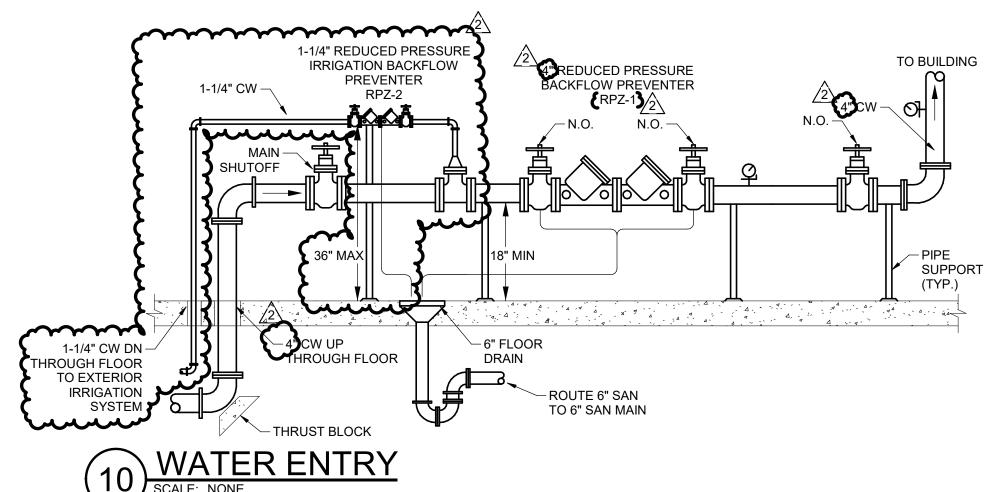
— IF BRANCH IS

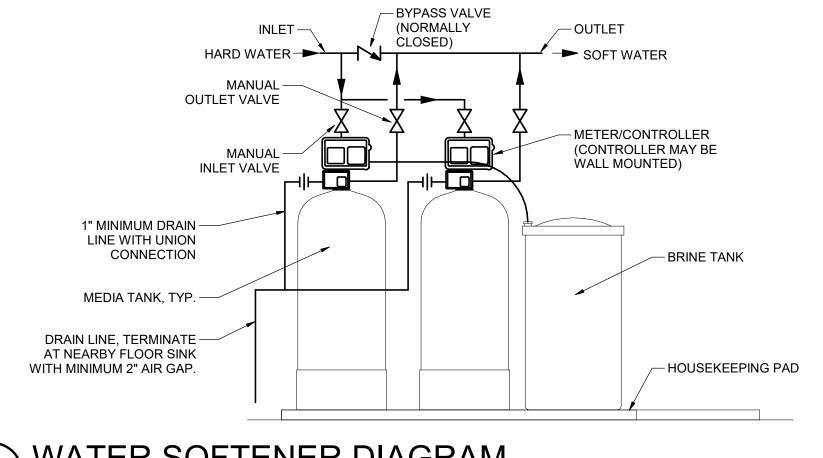
HANGER ROD SPACING

 PIPE SIZE
 1"
 1-1/4" 1-1/2"
 2"
 2-1/2"
 3"
 4"
 6"
 8"
 10"
 12"

MAX SPACING 7 FT. 8 FT. 9 FT. 10 FT. 11 FT. 12 FT. 14 FT. 17 FT. 19 FT. 22 FT. 23 FT.

NOTE: TRAPEZE HANGERS APPLY TO ALL MULTIPLE HORIZONTAL RUNS WITH OR WITHOUT VAPOR BARRIER INSULATION. COORDINATE INSTALLATION WITH ALL OTHER





(11) WATER SOFTENER DIAGRAM
SCALE: NONE

TYPICAL EQUIPMENT PAD

1. FLOOR UNDER PAD SHALL BE

2. ALL PADS SUPPORTING BOTH

INERTIA BAD TO BE REINFORCED

**EQUIPMENT AND A CONCRETE** 

a) PROVIDE #4 REBAR @ 12" O.C

ROUGHENED; PAD SHALL BE

PAD SIZE AS REQUIRED FOR

INDIVIDUAL EQUIPMENT

INSTALLED.

AS FOLLOWS:

BOTH WAYS.

DOWELED TO FLOOR. ADJUST

BOLAND ARCHITECTS

CONSTRUCTION

Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 Licensee's Certificate of Authority Number:

CIVIL CONSULTANT

7101 College Blvd. Ste. 400 Overland Park, KS 66210 913.663.1900

ACI/Boland, Inc.

STRUCTURAL CONSULTANT Bob D. Campbell & Co.

4338 Belleview Kansas City, MO 64111 816.531.4144

MEP CONSULTANT 1508 Grand Boulevard Kansas City, MO 64108

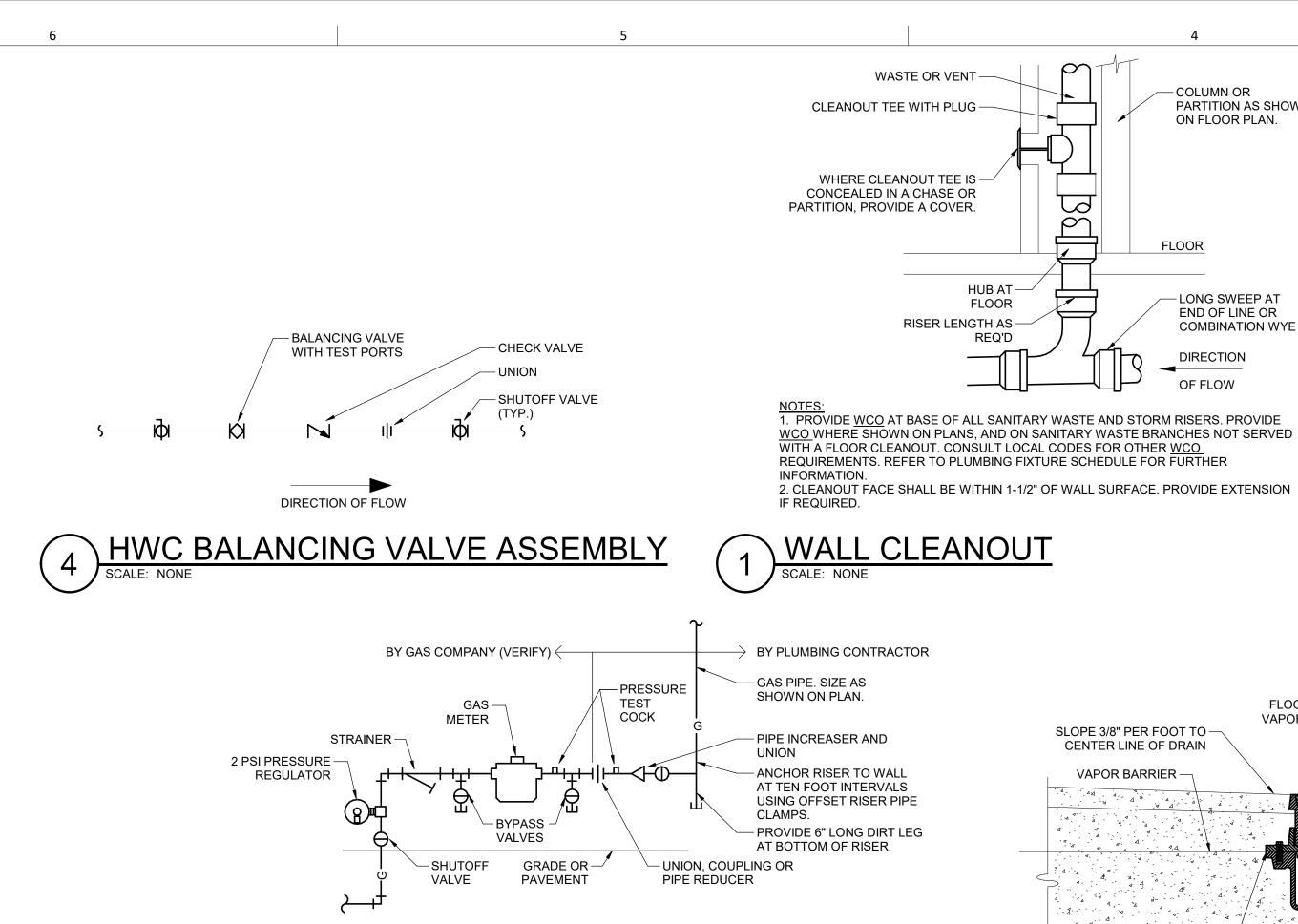
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2/8/2023 3-22030 Job Number Drawn By AB, RC, MG

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2 2/20/23 ADDENDUM #2

© 2022 ACI/BOLAND, Inc PLUMBING DETAILS



I. COMPLY WITH ALL REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER

FEES FOR INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS. GAS COMPANY SHALL

2. MINIMUM 6" LONG NIPPLE ON BOTH SIDES OF GAS PRESSURE REGULATOR.

GAS SERVICE WITH REGULATOR

SCALE: NONE

UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY

EXCAVATE, BACKFILL, AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM

by Cantel Medical.

Water filtration unit supplied by Cantel Medical. NOTE: Facility is responsible for mounting and

Locate in accessible spot to allow for easy filter changes. A minimum of 40 PSI dynamic pressure must be

maintained at the first gauge of the filtration unit

All connections from water filtration unit to the

ADVANTAGE PLUS™ Reprocessor will be performed

Tempered water shut off valve within reach of the operator.

Bypass valve for testing and warming supply water

Temp/pressure gauge for tempered water

Temp/pressure gauges for hot and cold supply

Drain must be lower than 18 inches from the floor. ADVANTAGE PLUS™ Reprocessor is gravity drained

and will not drain if it is higher than 18 inches.

Example of combined temp/pressure

THE THE PART OF TH

gauges and mixing valve

MEDIVATOR PLUMBING INSTALLATION DIAGRAM

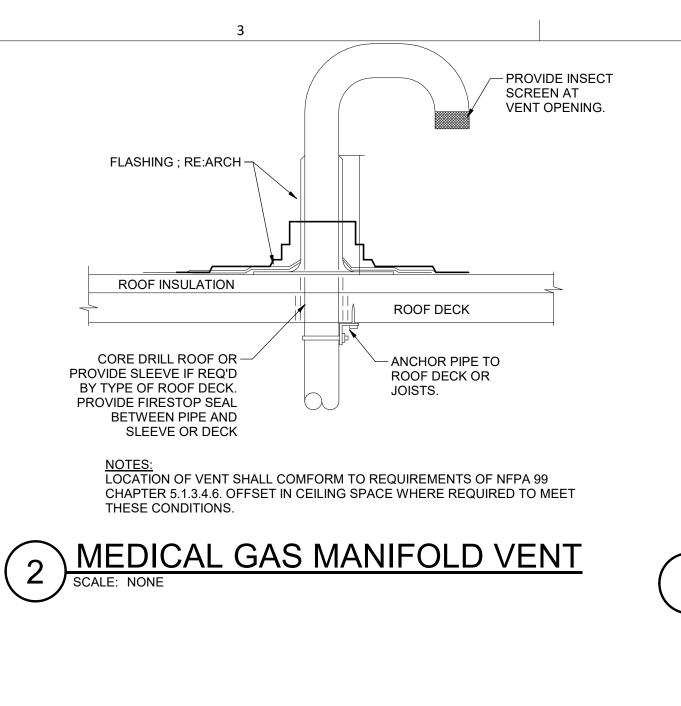
Pressure regulators for hot and cold supply

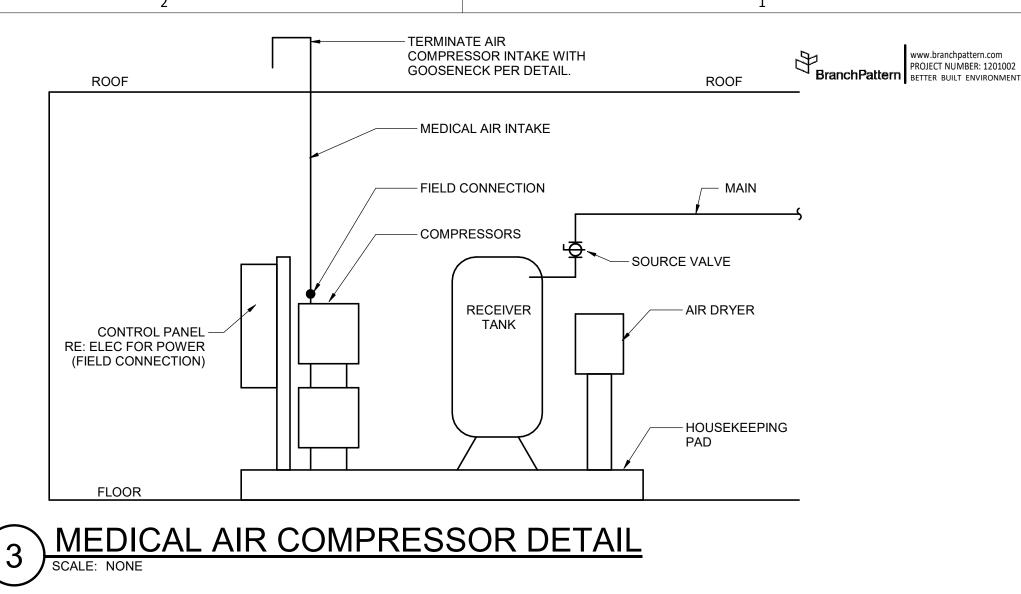
Mixing valve MV-5'S within 4 feet of the

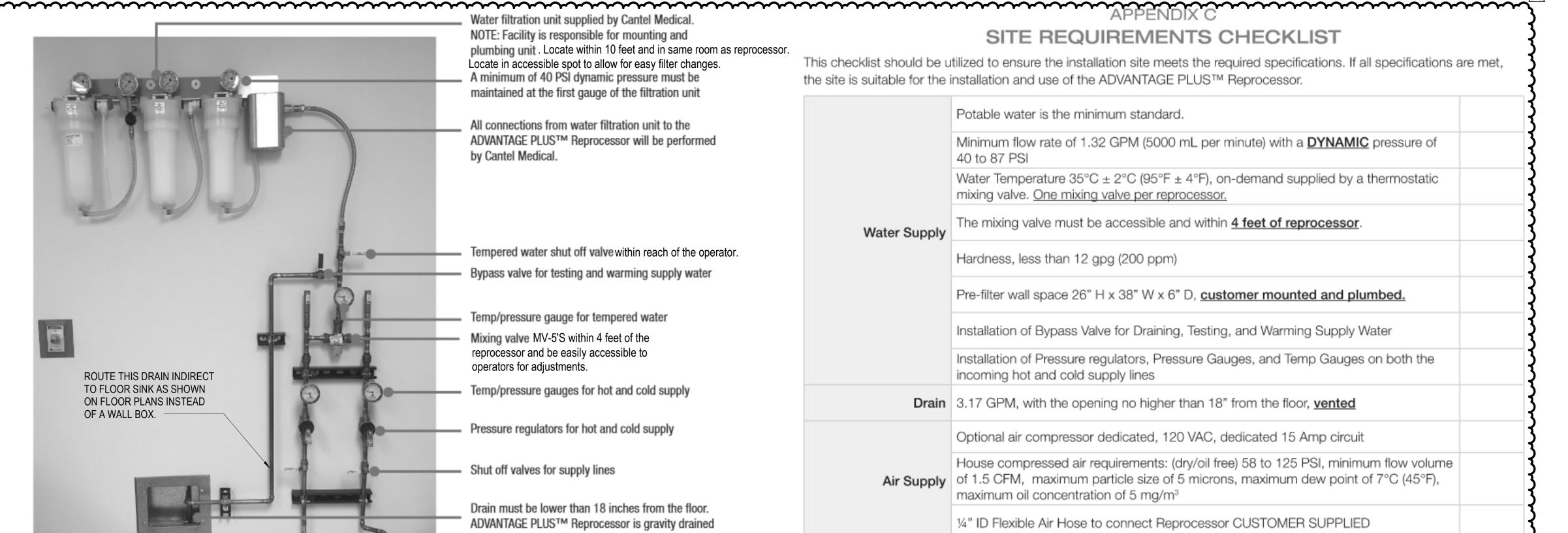
reprocessor and be easily accessible to

operators for adjustments.

Shut off valves for supply lines





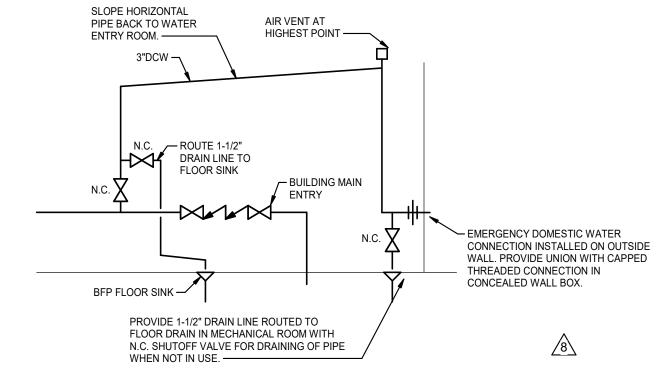


COLUMN OR

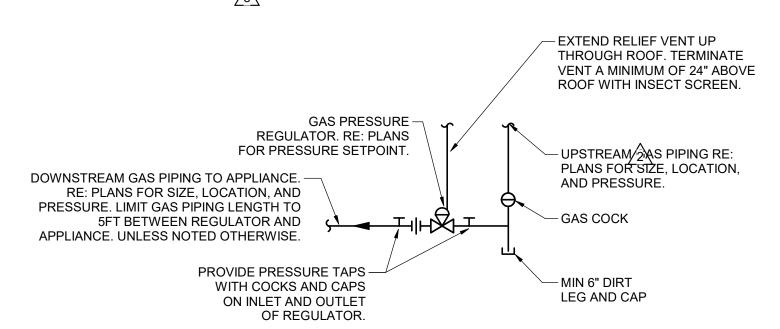
PARTITION AS SHOWN

ON FLOOR PLAN.

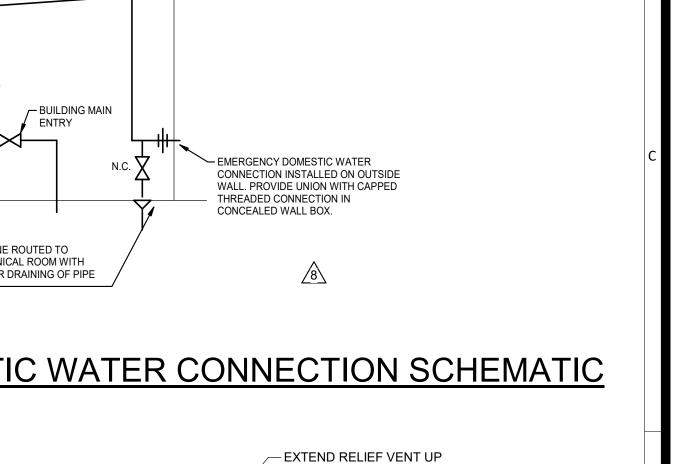
LONG SWEEP AT



9 EMERGENCY DOMESTIC WATER CONNECTION SCHEMATIC
SCALE: NONE



10 INTERIOR GAS PRESSURE REGULATOR



enter SS urge 950 ee's O O

**О** 

Job Number Drawn By Checked By

2/8/2023 3-22030

AB, RC, MG

CONSTRUCTION

BOLAND

ARCHITECTS

Licensee's Certificate of Authority Number:

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BranchPattern

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of

1508 Grand Boulevard Kansas City, MO 64108

> ADDENDUM #2 9 4/29/24

END OF LINE OR **COMBINATION WYE** 3 MEDICAL AIR COMPRESSOR DETAIL

SCALE: NONE - HUMIDIFIER CABINET FLOORS WITH FLOORS WITHOUT INSULATED AND HEAT-TRACED -WATER SUPPLY PIPING VAPOR BARRIER | VAPOR BARRIER SLOPE 3/8" PER FOOT TO-ROUTED THROUGH ROOF CURB AND HUMIDIFIER PIPE FLUSH WITH FLOOR IF - COUNTERTOP SINK CENTER LINE OF DRAIN OTHER FINISH PROVIDED VAPOR BARRIER -CEMENT FINISH UNDERCOUNTER DISHWASHER — - DRAIN LINES - SINK BASE CABINETRY (WHEN PRESENT) 3-WAY SOLENOID VALVE. -FUNNEL WITH AIR GAP MANUAL SHUT-OFF VALVE CLAMPING DEVICE -INSTALL VALVES AND DRAIN LINES ABOVE ACCESSIBLE CEILING. 2. WHEN HUMIDIFIER ENERGIZES, 3-WAY VALVE SHALL OPEN TO SEND WATER TO HUMIDIFIER. WHEN HUMIDIFIER IS NOT IN USE, ONE CONTINUOUS LENGTH NOTE:

1. FOR FLOOR SLABS WITH VAPOR BARRIER PROVIDE CLAMPING DEVICE CONNECTION. VALVE SHALL CLOSE SUPPLY AND ALLOW WATER IN OUTDOOR OF RUBBER HOSE FLOOR DRAIN INSTALLATION KITCHEN SINK & GARBAGE DISPOSAL

**ROUTE THIS DRAIN INDIRECT** 

TO FLOOR SINK AS SHOWN

ON FLOOR PLANS INSTEAD

OF A WALL BOX.

NOTES

MEDICAL VACUUM PUMP SYSTEM SCHEDULE QTY NOISE SCFM RECEIVER VOLTS PH FLA NOTES MANUFACTURER & SERVES/FUNCTION LEVEL (DbA) SIZE (GAL.) MODEL OR EQUAL ROTARY VANE PATTONS 70BI-25-073C MEDICAL VACUUM PUMP

1. FOR FEEDER SIZE AND LOCAL DISCONNECT SWITCH SEE THE ELECTRICAL SHEETS IN THE CONTRACT DRAWINGS. 2. PROVIDE A PRE-PIPED SYSTEM WITH A CONTROL PANEL AND VARIABLE FREQUENCY DRIVE MOUNTED ON A COMMON BASE/FRAME.

3. PROVIDE A SINGLE POINT ELECTRICAL CONNECTION.

5. PROVIDE AN EXHAUST PIPE FOR EACH VACUUM PUMP. THE EXHAUST PIPE WILL BE ROUTED TO THE ROOF WITH A GOOSENECK. 6. REFER TO MECH/ELEC COORDINATION SCHEDULE FOR SCCR.

4. PROVIDE A DUPLEX SYSTEM: ONE COMPRESSOR FOR NORMAL OPERATION AND THE OTHER IN RESERVE.

MEDICAL AIR COMPRESSOR SYSTEM SCHEDULE COMPRESSOR MOTOR SCFM PSIG RECEIVER HP QTY NOISE VOLTS PH FLA MANUFACTURER & SERVES/FUNCTION SIZE (GAL.) LEVEL (DbA) MODEL OR EQUAL PATTONS 62-22-022C MEDICAL AIR COMPRESSOR SCROLL 7 50 80 2 2 65 480

1. FOR FEEDER SIZE AND LOCAL DISCONNECT SWITCH SEE THE ELECTRICAL SHEETS IN THE CONTRACT DRAWINGS. 2. PROVIDE A PRE-PIPED SYSTEM WITH A CONTROL PANEL AND VARIABLE FREQUENCY DRIVE MOUNTED ON A COMMON BASE/FRAME.

4. PROVIDE A DUPLEX SYSTEM: ONE COMPRESSORS FOR NORMAL OPERATION. ONE IN RESERVE.

3. PROVIDE A SINGLE POINT ELECTRICAL CONNECTION. 4. PROVIDE A DUPLEX SYSTEM: ONE COMPRESSOR FOR NORMAL OPERATION, AND THE OTHER IN RESERVE IN CASE OF COMPRESSOR FAILURE.

5. REFER TO MECH/ELEC COORDINATION SCHEDULE FOR SCCR.

5. REFER TO MECH/ELEC COORDINATION SCHEDULE FOR SCCR.

INSTRUMENT AIR COMPRESSOR SYSTEM SCHEDULE COMPRESSOR MOTOR TYPE SCFM PSIG RECEIVER HP QTY NOISE VOLTS PH FLA SERVES/FUNCTION MANUFACTURER & LEVEL (DbA) MODEL OR EQUAL SIZE (GAL) IAC-1 BEACONMEDAES LES08-115T-RD-071 SCROLL 20.8 112.4 71 7.5 1 59 480 3 13 STERILE/DECON 1. FOR FEEDER SIZE AND LOCAL DISCONNECT SWITCH SEE THE ELECTRICAL SHEETS IN THE CONTRACT DRAWINGS. 2. PROVIDE A PRE-PIPED SYSTEM WITH A CONTROL PANEL AND VARIABLE FREQUENCY DRIVE MOUNTED ON A COMMON BASE/FRAME. 3. PROVIDE A SINGLE POINT ELECTRICAL CONNECTION.

MEDICAL GAS FACILITY ALARM PANEL SCHEDULE													
	MANUFACTURER &		SOURC	ES ALAR	MED/MO	NITORED	)			ELECTRI	CAL		
MARK	MODEL OR EQUAL	PANEL LOCATION	MA	0	MV	WAGD	N20	IA	CO2	VOLTS	AMPS	PH	NOTES
PAP-1	POWEREX - MAP10-55	OFFICE 123	X	Х	Х	Х	Х	Х	Х	120	2	1	1,3
SAP-1	POWEREX - MAP10-55	NURSE STATION 131	Х	Х	Х	Х	Χ	Х	Х	120	2	1	2,3
NOTES:	1. PRIMARY LOCATION. COOP	RDINATE FINAL LOCATION WIT	H OWNER	PRIOR T	O INSTA	LL.							
	2. SECONDARY LOCATION. C	COORDINATE FINAL LOCATION	WITH OWN	IER PRIC	R TO INS	STALL.							

	MANUFACTURER &			NUMBE	R OF GA	S VALVE	S					
MARK	MODEL OR EQUAL	ZONE VALVE BOX LOCATION	ROOMS SERVED	0	MA	MV	WAGD	N2O	N	CO2	IA	NOTES
ZVB-1	POWEREX - ZVB4BBCC	HALLWAY 150	GI PROCEDURE 152	Х	Х	Х				Х		1
ZVB-2	POWEREX - ZVB4BBCC	9 HALLWAY 150	GI PROCEDURE 156	Х	Х	Х				Х		1
ZVB-3	POWEREX - ZVB2BC	HALLWAY 160	RECOVERY 115-117, 121, 124-128	Х		Х						1
ZVB-4	POWEREX - ZVB2BC	HALLWAY 160	RECOVERY 132-134, 136, 138, 142,144,146	Х		Х						1
ZVB-5	POWEREX - ZVB7ABBBBCC	HALLWAY 180	OR 181	Х	Х	Х	Х	Х	Х	Х		1
ZVB-6	POWEREX - ZVB7ABBBBCC	HALLWAY 180	OR 183	Х	Х	Х	Х	Х	Х	Х		1
ZVB-7	POWEREX - ZVB7ABBBBCC	HALLWAY 180	OR 185	Х	Х	Х	Х	Х	Х	Х		1
ZVB-8	POWEREX - ZVB7ABBBBCC	HALLWAY 180	EQUIPMENT STOR 187	Х	Х	Х	Х	Х	Х	Х		1
ZVB-9	POWEREX - ZVB1A	HALLWAY 150	SCOPE DECON 153								Х	1
ZVB-10	POWEREX - ZVB1A	HALLWAY 180	DECON 182								Х	1
ZVB-11	POWEREX - ZVB1A	HALLWAY 180	STERILIZERS 184	<b></b>	<b></b>	~~					X	<b></b>
ZVB-12	POWEREX - ZVB1A	Ι΄ ΉΔΓΙ ΜΆΥ 170 Ι	STERILE ASSEMBLY 71			•	<b>T</b>				Х	1

3. SEE SPECIFICATIONS FOR REQUIRED ALARMING/MONITORING POINTS PER GAS SOURCE.

MEDICAL GAS VOL	LUME TABLE					
		QUANTITY	STANDARD CU. FT. OF GAS EA.	STANDARD CU. FT. OF GAS TOTAL	LIQUID VOLUME (GAL) EA.	LIQUID VOLUME (GAL) TOTAL
LIQUID OXYGEN - O2	"H" CYLINDER	6	N/A	N1/A	15	422.2
	LOX DEWAR	1	N/A	N/A	42.3	132.3
NITROUS OXIDE - N2O	"H" CYLINDER	8	558	4464	N/A	N/A
CARBON DIOXIDE - CO2	"H" CYLINDER	8	568	4544	N/A	N/A
NITROGEN - N2	"H" CYLINDER	16	229	3664	N/A	N/A
Per 2018 IBC Table 307.1(1), m	naximum allowable gas	seous oxidize	r quantity is 4500	Cu. Ft. using addition	onal quantities d	allowed by notes D c

Per 2018 IBC Table 307.1(1), maximum allowable liquid oxidizer quantity is 4500 Cu. Ft. using additional quantities allowed by notes D and E.

NOT USED

RECII	RCULATION VALVE SO	CHEDU	JLE	
MARK	SERVES	GPM	PIPE DIAMETER	NOTES:
BV-1	TOILETS, NURSE STATION	0.9	3/4"	-
BV-2	PREP ROOMS, TOILETS, EXAM	1.0	3/4"	-
BV-3	TOILET, STAFF LOUNGE, SCOPE PROCESSING	1.6	3/4"	-
BV-4	NOURISH, MEDS, CLEAN	0.7	3/4"	-
BV-5	SCRUB SINKS	0.6	3/4"	-
BV-6	STERILE PROCESSING	0.6	3/4"	-
BV-7	LOCKER ROOMS	0.6	3/4"	-
NOTES:	•	•		

<b>MEDICAL GAS AREA</b>	<b>ALARM PANEL SCHEDULE</b>
-------------------------	-----------------------------

L														
	MANUFACTURER &			SOURCE	ES MONI	TORED					ELECTRI	CAL		
MARK	MODEL OR EQUAL	PANEL LOCATION	ZONE VALVE BOXES SERVED	MA	0	MV	WAGD	N20	N	CO2	VOLTS	AMPS	PH	NOTES
AAP-1/2	POWEREX - AAP10 SERIES	NURSE STATION 118	ZVB-1 & ZVB-2	Х	Х	Х				Х	120	2	1	-
AAP-3/4	POWEREX - AAP10 SERIES	NURSE STATION 118	ZVB-3 & ZVB-4		Х	Х					120	2	1	-
AAP-5	POWEREX - AAP10 SERIES	NURSE STATION 118	ZVB-5	Х	Х	Х	X	Х	Х	Х	120	2	1	-
NOTES:														
1.	NONE													
İ														

					PERFORMANCE	
					CAPACITY	
MARK	MANUFACTURER	MODEL	SERVES	LOCATION	(GPD)	ELECTRICAL
DI-1	AMERIWATER	OHCS-2050	STERILE/DECOND EQUIPMENT	MECH ROOM	800	SEE NOTE

1. EACH UNIT SHALL BE PROVIDED WITH LOCAL GRAPHICAL USER INTERFACE MONITORED BY BMS SYSTEM WITH MANUFACTURER COMMUNICATION CARD. 2. PROVIDE ALL ACCESSORIES AND CONTROLS FOR A TIR 34 COMPLIANT SYSTEM, INCLUDING BUT NOT LIMITED TO CARBON PREFILTERS,

ANTISCALANT INJECTOR, RO GENERATOR, DI POLISHER, 55GAL STORAGE TANK, & 30 GPM DISTRIBUTION PUMP.

3. PROVIDE 2 - 120V/1P/15A DEDICATED GFCI RECEPTACLE, AND 2 - 208V/3P/20A RECEPTACLES. 4. REFER TO MECH/ELEC COORDINATION SCHEDULE FOR SCCR.

5. UTILIZE THE RO/DI COMPLIANCE KIT BASED ON TIR34/ST108 COMPLIANCE: ALARM PANEL WITH REMOTE RESISTIVITY CELL, FIELD UPGRADE KIT: ISOLATION \ \frac{5\sqrt{5}}{} VALVE SUB-ASSEMBLY WITH 30 GPM UV LAMP, STAINLESS STEEL FILTER HOUSING RATED AT 30GPM, 1" FLOWMETER TANK ASSEMBLY RATED AT 30 GPM

RETURN, TANK VENT FILTER ASSEMBLY.

**EXPANSION TANK SCHEDULE** MANUFACTURER & TANK VOL. | TANK ACCEPTANCE | SYSTEM VOL. MODEL OR EQUAL SERVES (GAL) MIN VOLUME (GAL) HIGH / LOW (F) (GAL) WESSELS TTA-20 GWH-1 & GWH-2 140/40

3. VENT MANIFOLD RELIEF VALVES TO THE EXTERIOR, TURN DOWN, AND SCREEN.

1. PROVIDE PRE-CHARGED PRESSURIZED EXPANSION TANK WITH HEAVY DUTY BUTYL RUBBER BLADDER.

3. PROVIDE EXPANSION TANK THAT IS NSF 61. 4. INSTALL IN CW LINE BEFORE WATER HEATER PER MANUFACTURERS RECOMMENDATIONS

> 2 MIXING VALVE FOR USE WITH EMERGENCY EYE/FACE WASH 3 POINT-OF-USE MIXING VALVE FOR SINKS AND LAVATORIES.

	MANUFACTURER &				NOTES
MARK	MODEL OR EQUAL	LOCATION	CYLINDERS PER BANK	GAS SERVICE	
MGM-1	POWEREX - MFLD-CYL-NFPA-N2O	MED GAS 224	4x4	NITROUS OXIDE	2,3
MGM-2	POWEREX - MFLD-LIQ-NFPA-O2	MED GAS 224	1x6	OXYGEN	1,3
MGM-3	POWEREX - MFLD-CYL-NFPA-N2	MED GAS 224	8x8	NITROGEN	2,3
MGM-4	POWEREX - MFLD-CYL-NFPA-CO2	MED GAS 224	4x4	CARBON DIOXIDE	2,3
NOTES	<u>:</u>				

2. PROVIDE SUPPORT SYSTEM TO SUSPEND VERTICAL EXPANSION TANK FROM STRUCTURE WITH PIPING SUPPORTED INDEPENDENT OF THE TANK.

ı	HOT	WATER MIXING	VALVE	SCHI	EDULE					
								ELECTR	CAL	
	MARK	MANUFACTURER &	MINIMUM	MAXIMUM	INLET WATER	OUTLET WATER	PRESSURE	VOLTS	PH	
		MODEL OR EQUAL	GPM	GPM	TEMP (F)	TEMP (F)	DROP (PSI)			NOTES:
	MV-1	LEONARD PNV-150-LF	0.25	50	140	130	5	120	1	1
	MV-2	LEONARD TA-300-LF	2.0	4.5	130	85	20	-	-	2
	MV-3	LEONARD 170A-LF	0.25	1.9	130	105	20	-	- ^	3
7 [	MV-4	WATTS LFL1170M2 - 3/4" / 9	1890	~~~	~~ <sup>124</sup> ~~	~~~~	~~~~	-	(9)	~~~
	MV-5	LEONARD 170A-LF	0.25	1.7	130	95	5	3 -	- (	5
Ν	NOTES		$\overline{\mathcal{U}}$							

4 MIXING VALVE FOR USE WITH DI MAKEUP WATER
5 MIXING VALVE FOR USE WITH ENDOSCOPE REPROCESSORS - #727801

CAD		PROJECT	ROUGH-IN SIZE (IN.)													
ID	DESCRIPTION	QUANTITY	CW (GPM EA.)	HW (GPM EA.)	PW (GPM EA.)	DW	IW	IA (PSI,SCFM)	CO2	N	MA	OX	NO	MV	WAGD	NOTES
100198	ICE MAKER - 90 LB	1	1/2" (<1 GPM)				3/4"									8,9
714443	FREESTANDING ICE/WATER DISPENSER	1	1/2" (<1 GPM)				3/4"									2,8
714519	ICE MAKER FILTRATION SYSTEM	3 ,	3/4" (<1 GPM)												1	11
717621	ICE MAKER - 425 LB	1 /5	1/2" (<1 GPM)				3/4"								1	8,9
720109	STERILIZER - MED	2	1-1/4" (12 GPM)		SEE NOTE (0.6 GPM)	Δ	1-1/2"	1/2" (90 PSI, 3 SCFM)							1	1,3,13,14,15
725340	WASHER/DISINFECTOR	2/5	1-1/4" (14.1 GPM)	1-1/4" (14.1 GPM)	1-1/4" (12.6 GPM)	$\sqrt{2}$	X	1/2" (90 PSI, 1.75 SCFM)							1	1,3,11,14,15
725408	DISHWASHER	1		1/2" (3 GPM)	<b>1</b> /5\		X								1	5
726363	ULTRASONIC CLEANER	2	3/4" (3-8 GPM)	3/4" (3-8 GPM)	1" (8 GPM)		X								1	1,12
726767	NEPTUNE DOCKING STATION	2	3/4" (<1 GPM)				X								1	1,4,7
727553	COFFEE BREWER	1	1/2" (<1 GPM)												1	1,3,13,14,15
727801	ENDOSCOPIC REPROCESSING	1	1/2" (1.32 GPM)	1/2" (1.32 GPM)			X	1/2" (90 PSI, 1.5 SCFM)							1	1,16
730257	STERILIZER - SMALL	1	1-1/4" (15 GPM)	1/2" (1 GPM)			SEE NOTE	1/2" (90 PSI, 3 SCFM)							1	1,3,13,14,15
800503	SURGICAL BOOM	3							SEE PLANS	SEE PLANS				SEE PLANS		10

GENERAL NOTE: COORDINATE EXACT LOCATION AND ELEVATION OF EQUIPMENT ROUGH-INS WITH FFE PLANS AND ELEVATIONS. VERIFY EQUIPMENT CONNECTION SIZES WITH PURCHASED EQUIPMENT.

COORDINATE IW (INDIRECT WASTE) CONNECTION SIZE WITH EQUIPMENT PROVIDER. PROVIDE NECESSARY DRAIN TUBING.

ROUTE IW TUBING FROM UNIT TO ADJACENT FLOOR DRAIN.

3. ROUTE IW TUBING FROM UNIT TO FLOOR SINK. LOCATE FLOOR SINK UNDERNEATH UNIT. COORDINATE WITH MANUFACTURER.

4. ROUTE IW TUBING FROM EQUIPMENT TO NEARBY DB DRAIN BOX.

5. PROVIDE SDB SUPPLY DRAIN BOX LOCATED UNDERCOUNTER AT 24" AFF FOR UTILITY CONNECTION.

6. PROVIDE COLD WATER SB SUPPLY BOX LOCATED UNDERCOUNTER AT 24" AFF FOR UTILITY CONNECTION. ROUTE CW TUBING UP FROM SB THROUGH HOLE IN BACK OF COUNTERTOP.

PROVIDE RUBBER GROMMET FOR HOLE. COORDINATE WITH ARCHITECT PRIOR TO DRILLING GROMMET HOLE.

7. ROUTE 3/4"CW LINE DOWN ALONG THE FACE OF THE WALL. TERMINATE WATER PIPING 1' ABOVE THE EQUIPMENT AND INSTALL A SHUTOFF VALVE IN THE RISER 1'6" ABOVE THE EQUIPMENT.

8. PROVIDE WATTS SD-3 BACKFLOW PREVENTER IN SUPPLY TUBING TO THE EQUIPMENT. LOCATE IN AN ACCESSIBLE LOCATION.

9. PROVIDE SDB SUPPLY DRAIN BOX LOCATED UNDERCOUNTER AT 24" AFF FOR UTILITY CONNECTION. ROUTE CW AND IW TUBING UP FROM SDB THROUGH HOLE IN BACK OF COUNTERTOP.

PROVIDE RUBBER GROMMET FOR HOLE. COORDINATE WITH ARCHITECT PRIOR TO DRILLING GROMMET HOLE. 10. BASIS OF DESIGN MEDICAL GAS OUTLET QUANTITY: (2 - MV), (1 - NO), (1-CO2).

11. INSTALL ICE MACHINE WATER FILTRATION SYSTEM ON THE INLET DOMESTIC COLD WATER SUPPLY UPSTREAM OF THE BACKFLOW PREVENTOR.

12. ROUTE IW TUBING FROM UNIT TO FLOOR SINK. TERMINATE IW TUBING WITH CODE REQUIRED AIR GAP.

13. EQUIPMENT REQUIRES 1MEGAOHM RESISTIVITY DI/RO WATER. MAX FLOW RATE OF 0.6 GPM, 4.2GAL/CYCLE, AND 3 GPH OUT OF CYCLE.

14. PROVIDE INLINE REDUCED PRESSURE ZONE BACKFLOW PREVENTOR ON ALL DOMESTIC WATER LINES. INSTALL SHUTOFF VALES ON INCOMING UTILITY LINES IN ACCESSIBLE LOCATION.

15. ROUTE STEAM RELIEF VALVE TO THE EXTERIOR OF THE BUILDING PER ASME BOILER CODE.

16. PROVIDE CONNECTION FROM MV-5. ONE PER UNIT.

CONSTRUCTION

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2/8/2023

ADDENDUM #2 ASI #2 ASI#6 9 4/29/24

WA	TER SOFTEN	ER SCHEI	DULE
		CDAIN	CONTINUIOUS

		GRAIN	CONTINUOUS		ELECT	RICAL		
٩RK	MANUFACTURER &	CAP. (MAX.)	FLOW	PEAK FLOW	VOLTS	PH	WEIGHT	NOTES
	MODEL OR EQUAL	@ SALT DOSAGE	(GPM@15)	(GPM)			LBS.	
'S-1	CULLIGAN CTM 450-PF	4545 @ 225	76	104	120	1	6,960	1-6
<u>OTES</u>								

1. FOR FEEDER SIZE AND LOCAL DISCONNECT SWITCH SEE THE ELECTRICAL SHEETS IN THE CONTRACT DRAWINGS. 2. PROVIDE UNIT WITH GROUNDED PLUG-IN ELECTRICAL CONNECTION AND MOUNTED AND WIRED CONTROL TRANSFORMER

3. PROVIDE CONTROLS FOR AUTO REGENERATION - PROGRESSIVE FLOW SET-UP, WATER METER, CONTROLLED WITH DEMAND.

4. PROVIDE A DUPLEX SYSTEM. 5. SUPPLIER TO VERFIY WATER HARDNESS AND SUBMIT SYSTEM CAPACITY CALCULATION WITH SHOP DRAWINGS SUBMITTAL.

6. PROVIDE CONTROLS FOR PROGRESSIVE FLOW.

### FUEL FIRED WATER HEATER SCHEDULE

				FUEL	EFF.			RECOVERY	TANK	ELECTRICAL	DATA		
MARK	MANUFACTURER &	SERVES	FUEL	INPUT	RANGE	EWT	LWT	RATE	STORAGE	MOPD	VOLTS	PH	NOTES
	MODEL OR EQUAL			(MBH)	(%)	(DEG F)	(DEG F)	(GPH)	(GAL)				
GWH-1	BRADFORD WHITE - EF-100T-199E-3N(A)	DOMESTIC HOT WATER	NG	199	97%	40	140	233	80	20A	120	1	1-6
GWH-2	BRADFORD WHITE - EF-100T-199E-3N(A)	DOMESTIC HOT WATER	NG	199	97%	40	140	233	80	20A	120	1	1-6
NOTES:					,			•		-			

1. ASME RATED VESSEL. PROVIDE WITH ASME-RATED TEMPERATURE AND PRESSURE RELIEF VALVE, TEMPERATURE AND PRESSURE GAUGES.

2. PROVIDE WITH DIRECT VENT INTAKE AND EXHAUST PIPING AS RECOMMENDED BY MANUFACTURER.

3. PROVIDE VENT PIPING MATERIAL AND ALL NECESSARY SUPPORT ETC. AS RECOMMENDED BY MANUFACTURER.

4. PROVIDE WITH CONDENSATE NEUTRALIZER KIT INSTALLED ON CONDENSATE DRAIN LINE. 5. PROVIDE WITH CONCENTRIC VENT KIT AND BACNET GATEWAY KIT.

6. PROVIDE WITH DEDICATED 15AMP CIRCUIT.

1. IMPELLER FOR VARIABLEFLOW PUMPS SHALL BE TRIMMED FOR MAXIMUM DIAMETER THAT WILL NOT EXCEED THE CAPACITY OF THE PUMP MOTOR.

	MANUFACTURER &					HEAD	ELECTRICAL CONNE	CTION DATA	NOTES:
MARK	"MODEL" OR EQUAL	LOCATION	SERVES	TYPE	GPM	(FT.)	V/P/HZ	MOTOR HP	NOTES.
CP-1	BELL & GOSSETT ECOCIRC XLN 40-200	MECH ROOM	BUILDING HWC	CARTRIDGE	6.0	17.0	480/3/60	1	1,2

 PUMP FOR DOMESTIC HOT WATER LOOP WILL RUN CONTINUOUSLY. 2. GPM AND HEAD FLOW RATES ARE CALCULATED DESIGN FLOW RATES.

## DUPLEX DOMESTIC BOOSTER PUMP SCHEDULE

2. PROVIDE WITH MOUNTING BASE.

MARK	BASIS OF DESIGN	SERVICE	LOCATION	TYPE			Pl	JMP					MOTOR		NOTES
			OF UNIT	OF	TYPE	MIN	MIN	FLUID	MAX	MAX	MIN	MAX	MAX	ELEC	1
				FLOW		FLOW	HEAD	TEMP	NPSH	BHP	EFF	SIZE	SPEED		
	MANUFACTURER & MODEL					gpm	ft. H2O	(F)	ft. H2O		%	hp	rpm	v/ph/hz	
DBP-1	TIGERFLOW CD65-1/1	POMESTIC COLD WATER	{	VARIABLE VE	RTICAL INL	INE 250	92.4	40	12.27	(2)12	72	(2)15	3500	480/3/60	1,2
NOTES:		<u> </u>		•	•			•	•	•	•		•	•	•

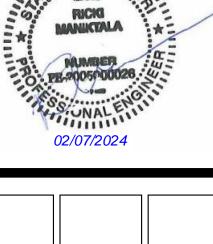
PLUMBING FIXTURE & EQUIPMENT CONNECTION SCHEDULE

FIXTURE	COMPONENT	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM/GPF)	ACCESSIBLE	ELECTRICAL	WASTE	VENT	CW	HW
WC-1	WATER CLOSET SEAT FLUSH VALVE	ZURN PROFLO ZURN	Z5655-BWL1 PFTSCOF2000WH ZEMS6000AV-MOB-HET	FLOOR MOUNT, SIPHON JET, GLAZING, ELONGATED RIM, AND 15" HEIGHT.  OPEN FRONT SOLID PLASTIC SEAT.  HARDWIRED SENSOR FLUSH VALVE WITH TRUE MANUAL OVERRIDE AND ACCESSORIES.	1.28	NO	HARDWIRED	4"	2"	1"	-
WC-2	WATER CLOSET SEAT	ZURN PROFLO	Z5665-BWL1 PFTSCOF2000WH	FLOOR MOUNT, SIPHON JET, GLAZING, ELONGATED RIM, AND 17" HEIGHT. OPEN FRONT SOLID PLASTIC SEAT.	1.28	YES	HARDWIRED	4"	2"	1"	-
U-1	FLUSH VALVE URINAL FLUSH VALVE WALL CARRIER	ZURN ZURN ZURN ZURN	ZEMS6000AV-MOB-HET  Z5755U  ZEMS6003AV-ULF  Z1222	HARDWIRED SENSOR FLUSH VALVE WITH TRUE MANUAL OVERRIDE AND ACCESSORIES.  TOP SPUD, RE: ARCH FOR MOUNTING HEIGHT.  AUTOMATIC SENSOR TYPE FLUSH VALVE WITH TRUE MANUAL OVERRIDE AND ACCESSORIES.  PROVIDE WITH WALL CARRIER.	0.125	YES	HARDWIRED	2"	1-1/2"	3/4"	-
L-1	LAVATORY FAUCET INSULATION KIT	ZURN ZURN ZURN IPS	Z5344 Z6920-XL-CWB-N-0.5 2018SLSS3003	WALL HUNG, 4" CENTERS, PROVIDE WITH CARRIER, COORDINATE WITH WALL THICKNESS. AUTOMATIC SENSOR-OPERATED FAUCET WITH ACCESSORIES, WITH MV-3.	0.5	YES	HARDWIRED	2"	1-1/2"	1/2"	1/2"
L-2	LAVATORY FAUCET	ZURN ZURN	Z5110 Z6915-XL-N	COUNTERTOP, SELF-RIMMING VITREOUS CHINA, 4" CENTERS. MANUALLY OPERATED FAUCET, WITH MV-3.	0.5	YES	-	2"	1-1/2"	1/2"	1/2"
L-3	INSULATION KIT LAVATORY FAUCET	IPS ZURN ZURN	2018SLSS3003 Z5344 Z6920-XL-CWB-J-1.5	WALL HUNG, 4" CENTERS, PROVIDE WITH CARRIER, COORDINATE WITH WALL THICKNESS. AUTOMATIC SENSOR-OPERATED FAUCET WITH ACCESSORIES, WITH MV-3.	1.5	YES	HARDWIRED	2"	1-1/2"	1/2"	1/2"
S-1	INSULATION KIT SINK FAUCET  5	IPS BY ARCHITECT ZURN	2018SLSS3003 BY ARCHITECT Z6920-XL-CWB-K-1.0	SOLID SURFACE SINGLE BOWL, PER ARCHITECTURAL SPECIFICATIONS. AUTOMATIC SENSOR-OPERATED FAUCET WITH ACCESSORIES. PROVIDE WITH MV-3	1.0	-	HARDWIRED	2"	1-1/2"	1/2"	1/2"
S-2	INSULATION KIT SINK FAUCET	IPS BY ARCHITECT ZURN	2018SLSS3003 BY ARCHITECT Z7870CXL	SOLID SURFACE SINGLE BOWL, PER ARCHITECTURAL SPECIFICATIONS. CHROME PLATED BRASS WITH CERAMIC DISC CARTRIDGES, LIMIT STOP AND LEVER HANDLE.	2.0	-	-	2"	1-1/2"	1/2"	1/2"
S-3	INSULATION KIT SURGICAL SCRUB SINK &	JUST MFG	2018SLSS3003 JKS-770-2-S-P	PROVIDE WITH GDU.  WALL MOUNTED 2 STATION SURGICAL SCRUB SINK WITH SENSOR FAUCET AND KNEE ACTIVATED SOAP.	1.5	-	HARDWIRED	2"	1-1/2"	1/2"	1/2"
S-4	FAUCET INSULATION KIT SURGICAL SCRUB SINK &	IPS JUST MFG	2018SLSS3003 JKS-770-S-P	WALL MOUNTED 1 STATION SURGICAL SCRUB SINK WITH SENSOR FAUCET AND KNEE ACTIVATED SOAP.	1.5	-	HARDWIRED	2"	1-1/2"	1/2"	1/2"
S-5	FAUCET INSULATION KIT SINK	IPS ELKAY	2018SLSS3003 DLR1919-10-3	SINGLE BOWL, DROP IN, TYPE 304 STAINLESS STEEL SINK BOWL.	1.5	-	HARDWIRED	2"	1-1/2"	1/2"	1/2"
<del>S-6~</del>	FAUCET INSULATION KIT SINK	ZURN IPS BY ARCHITECT	Z6920-XL-CWB-J 1.5 2018SLSS3003	AUTOMATIC SENSOR-OPERATED FAUCET WITH ACCESSORIES. PROVIDE WITH MV-3	<del>~~~</del>	محنحد	<del>\                                    </del>	<del></del>	1-1/2	1/2	1/2"
S-7	FAUCET SINK	T&S BRASS BY ARCHITECT	B0322	8" DECK MOUNT MIXING FAUCET W/ QUARTER-TURN CARTRIDGES W/ SPRING CHECKS, 6" WRISTBLADE HANDLES, 5"SWIVEL GOOSENECK W/ 2.2GPM OUTLET & 1/2" NPT FEMALE INLETS -							
	FAUCET	T&S BRASS	B2430	DECK MOUNTED MIXING FAUCET WITH SWING NOZZLE AND SPRAY UNIT, 062X SWING NOZZLE, 54" FLEXIBLE STAINLESS STEEL HOSE, B0107 SPRAY HEAD, VACUUM BREAKER, MANUAL ON-OFF CONTROL TO SPRAY HEAD AND FINGER HOOK 1/2" IPS FEMALE INLETS ADJUSTABLE FROM 7-3/4" TO 8-1/4" CENTERS AND BUILT IN SPRING CHECKS TO PREVENT CROSS FLOW OF WATER.	9.7/1.2	-	MANUAL				
S-8	SINK FAUCET	BY ARCHITECT ORION	- GNF10VB	- DECK MOUNTED MIXING FAUCET WITH ONE (1) CROSS HANDLE GOOSENECK SPOUT WITH INTEGRAL VACUUM BREAKER AND SERRATED OUTLET. CONNECT TO 1/2" DI.	0.5	-	MANUAL				
<b>S-1</b>	CLINICAL SERVICE SINK	ZURN	Z5410	VITREOUS CHINA WALL HUNG HEALTHCARE SERVICE SINK WITH RIM GUARDS	<u> </u>	سيس	<u>.</u>	3"	1-1/2"	(2) 1/2"	(2) 1/2
	FLUSH VALVE FAUCET	ZURN	Z6017 Z843D4-LVB-PE-5XT-FT-YT	CHROME PLATED, CHLORAMINE RESISTANT, DUAL SEAL DIPHRAGM FLUSH VALVE.  CHROME PLATED WALL FAUCET WITH 8" CENTERS, 3/4" THREADED HOSE OUTLET, VACUUM BREAKER,	-	-	-	-	-	1-1/4"	- 1/2"
	BEDPAN WASHER	ZURN	Z85500-WM-EVB-HK-	WALL BRACE, PAIL HOOK.  CHROME PLATED BEDPAN WASHER WITH FOOT PEDAL ACTIVATION.	-	-	-	-	-	1/2"	1/2"
WC-1	ELECT. WATER COOLER	ELKAY	SE-SH-VC LZSTL8WSSK	WALL MOUNTED, HI/LO, FRONT & SIDE CONTROLS, INTEGRAL CHILLER, W/ BOTTLE FILLER. PROVIDE WITH MOUNTING PLATE, CARRIER.	-	YES	6 FLA	2"	1-1/2"	1/2"	-
SH-1	SHOWER VALVE HEAD	SYMMONS	SYM9605-X-PLR-231	CHROME PLATED BRASS SHOWER VALVE, PRESSURE COMPENSATING ASSE 1016 TYPE P, INTEGRAL CHECKSTOPS, 4.0GPM MAXIMUM FLOW, PROVIDE WITH 1.5GPM HAND SHOWER, 24" SLIDE BAR, SS BRAIDED	1.5	YES	-	2"	1-1/2"	1/2"	1/2'
SDB	DRAIN BOX	SIOUX CHIEF	696-G2313	HOSE AND VACUUM BREAKER.  RECESSED ABS WALL DRAIN BOX WITH INTEGRAL PRESSURE TEST NIPPLE, PROVIDE WITH FRAME, BRACKET, WHA AND DEBRIS COVER.	-	-	-	1-1/2"	-	-	-
VHA	WATER HAMMER ARRESTOR	SIOUX CHIEF	652	SIZE PER PLAN, PISTON-TYPE WATER HAMMER ARRESTOR, PROVIDE WITH LINE SIZE BALL VALVE FOR ISOLATION AND PROVIDE WITH ACCESS.	-	-	-	-	-	PER DETAIL	-
TP-1	TRAP PRIMER	PPP INC	PRO1-ULP500	UNDER LAVATORY CHROME PLATED FLOW ACTIVATED TRAP PRIMER VALVE.	-	-	-	-	-	1/2"	-
TP-2	TRAP PRIMER	PPP INC	MP-500-115V	SURFACE MOUNTED ELECTRONIC TRAP PRIMING ASSEMBLY WITH DISTRIBUTION UNIT. PROVIDE WITH DISTRIBUTION UNIT GREATER THAN OR EQUAL TO THE NUMBER OF FLOOR DRAINS/SINKS SERVED.	-	-	120V/1P 2A	-	-	1/2"	-
FWH	WALL HYDRANT	ZURN	Z1310	RECESSED HOSE BOX WITH WALL FLANGE, LOCKABLE DOOR WITH KEY, REMOVABLE LOOSE KEY HANDLE, VACUUM BREAKER, COORDINATE ROD DEPTH WITH WALL THICKNESS.	-	-	-	-	-	3/4"	-
RHB	ROOF HOSE BIBB	ZURN	Z1388XLL34VBAC	ROOF HOSE BIBB, CAST IRON HYDRANT SUPPORT COMPONENTS, WELL SEAL TIGHTENS BETWEEN HYDRANT SUPPORT AND HYDRANT PIPE, EPDM BOOT TO COVER WELL SEAL AND TOP OF HYDRANT SUPPORT, 2 DEGREE SHIM SUPPLIED FOR INSTALLATION ON PITCHED ROOFS. PROVIDED WITH NIDEL 37HF.	-	-	-	-	-	3/4"	-
6G-1	SPRAY GUN	HEALTHMARK	6000-6025	PROVIDE WITH VACUUM BREAKER AND CASING GUARD.  STAINLESS STEEL WATER SPRAY GUN. PROVIDE WITH 3/4" CONNECTOR, 1.5 METER HOSE, TABLE TOP ROSETTE, UNIVERSAL TIP. COORDINATE FINAL LOCATION WITH OWNER.	-	-	-	-	-	1/2"	-
SG-2	SPRAY GUN	HEALTHMARK	6000-6025	STAINLESS STEEL COMPRESSED AIR SPRAY GUN. PROVIDE WITH 3/4" CONNECTOR, 1.5 METER HOSE, TABLE TOP, ROSETTE. CONNECT TO 1/2" IA. COORDINATE FINAL LOCATION WITH OWNER.	-	-	-	-	-	-	-
GDU	GARBAGE DISPOSAL UNIT	IN-SINK-ERATOR	EVOLUTION EXCEL	AUTO-REVERSE GRIND SYSTEM, PERMANENTLY LUBRICATED UP AND LOWER BEARINGS. 25.5 LBS	-	-	120/1/60 1HP	2"	-	-	-
MS-1	MOP SERVICE BASIN	FIAT ZURN	MSB2424 Z843MR-CS-RC	MOLDED STONE, 24"x24"x10" WITH STAINLESS STEEL DRAIN. WITH INTERNAL STOPS AND CHECK STOPS, VACUUM BREAKER, PAIL HOOK, WALL BRACKET.	-	NO	10.2A -	3"	2"	1/2"	1/2"
EW-1	EMERGENCY EYE WASH	GUARDIAN	G5022	DECK MOUNTED EYE/FACE WASH. PROVIDE FIXTURE HEAD ARRANGEMENT COORDINATE WITH EACH SINK FAUCET ASSEMBLY. PROVIDE WITH MV-2 MIXING VALVE.	-	YES	-	-	-	3/4"	3/4"
EW-2	EMERGENCY EYE WASH	GUARDIAN	G1750	WALL MOUNTED EYE/FACE WASH. PROVIDE WITH MV-2 MIXING VALVE.	min	YES	<del>~</del>	1-1/2"	مند	3/4"	3/4"
GV	GAS SHUT-OFF VALVE	AGS	MERLIN 1049	2" NATURAL GAS 120 VOLT SOLENOID VALVE. NORMALLY CLOSED. PROVIDE WITH AGS EGOTW EMERGENCY	سيسب	سيس	120V/1P	سيد	ليد	سِ	س
FD-1	FLOOR DRAIN	ZURN	ZN415SZ	SHUT-OFF BUTTON WITH CLEAR COVER. PROVIDE AT EACH EXTERIOR DOOR.  CAST IRON FLOOR DRAIN, 6"X6" SQUARE STRAINER, 8"DIA. BODY, SEEPAGE SLOTS, COMBO MEMBRANE	-	-	0.5A -	PER	-	-	-
FS-1	FLOOR SINK	ZURN	Z1902	CLAMP AND ADJUSTABLE COLLAR, LIGHT DUTY NICKEL BRONZE STRAINER.  CAST IRON 12" SQUARE FLOOR SINK, 10" DEEP SUMP, WHITE A.R.E. COATED INTERIOR, (1/2,3/4,FULL) NICKEL BRONZE GRATE FOR LIGHT DUTY (UNDER 2,000 LBS.), ALUMINUM SEDIMENT BUCKET, TRAP PRIMER	-	-	-	PLAN PER PLAN	-	-	-
FS-2	FLOOR SINK	ZURN	ZN1926	CONNECTION.  CAST IRON 16" SQUARE FLOOR SINK, 12" DEEP SUMP, WHITE A.R.E. COATED INTERIOR, (1/2,3/4,FULL) NICKEL	-	-	-	PER	-	-	-
				BRONZE GRATE FOR LIGHT DUTY (UNDER 2,000 LBS.), ALUMINUM SEDIMENT BUCKET, TRAP PRIMER CONNECTION.				PLAN			
RD	ROOF DRAIN	ZURN	ZA-125-100-DR	CAST IRON ROOF DRAIN WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ADJUSTABLE EXTENSION, CAST IRON MUSHROOM LOCKING DOME, AND UNDERDECK CLAMP.	-	-	-	PER PLAN (STORM)	-	-	-
	OVERFLOW DRAIN	ZURN	ZA-100-W2-DR	CAST IRON ROOF DRAIN WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ADJUSTABLE EXTENSION, CAST IRON MUSHROOM LOCKING DOME, 2" INTERNAL DAM, AND UNDERDECK CLAMP.	-	-	-	PER PLAN (STORM)	-	-	-
DS	DOWNSPOUT NOZZLE	ZURN	Z199-SS	NICKEL BRONZE BODY DOWNSPOUT NOZZLE WITH WALL FLANGE, AND REMOVABLE STAINLESS STEEL SCREEN.	-	-	-	PER PLAN (STORM)	-	-	-
FCO	FLOOR CLEANOUT	ZURN	ZN1400-BZ1-BP-VP	ADJUSTABLE, COATED CAST IRON BODY, BRONZE THREADED PLUG, ROUND SCORIATED NICKEL BRONZE LIGHT-DUTY TOP.	-	-	•	PER PLAN	-	-	-
GCO	GRADE CLEANOUT	ZURN	Z1400-BP	EPOXY COATED CAST IRON BODY WITH EXTRA HEAVY DUTY SCORIATED CAST IRON SECURED TOP. PROVIDE PROVIDE WITH BRONZE PLUG. WITH BRONZE PLUG.	-	-	-	PER PLAN	-	-	-
NCO	WALL CLEANOUT	ZURN	Z1446-BP	EPOXY COATED CAST IRON BODY WITH BRONZE PLUG, ROUND STAINLESS STEEL WALL ACCESS COVER, AND SECURING SCREW.	-	-	-	PER PLAN		-	-
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTOR	ZURN	375 - 4"	170 GPM @ 10 PSI LOSS MAX. STAINLESS STEEL BODIED VALVE WITH STAINLESS STEEL CHECK ASSEMBLIES, WITH 1/4 TURN BALL VALVES, PROVIDE WITH STRAINER AND FUNNEL DRAIN.	-	-	-	-	-	4"	-
RPZ-2	REDUCED PRESSURE BACKFLOW PREVENTOR	ZURN	975XL2 - 1-1/4"	35 GPM @ 14 PSI LOSS MAX FOR IRRIGATION SYSTEM. BRONZE BODIED VALVE WITH BRONZE CHECK ASSEMBLIES, WITH 1/4 TURN BALL VALVES, PROVIDE WITH STRAINER AND FUNNEL DRAIN.	-	-	-	-	-	1-1/4"	-
	REDUCED PRESSURE BACKFLOW PREVENTOR	ZURN	375XLB	3 GPM @ 14 PSI LOSS MAX FOR ENDOSCOPIC REPROCESSING UNITS COLD SUPPLY. BRONZE BODIED VALVE WITH BRONZE CHECK ASSEMBLIES, WITH 1/4 TURN BALL VALVES PROVIDE WITH STRAINER AND FLINNEL DRAIN	-	-	-	-	-	1/2"	-
RPZ-4	REDUCED PRESSURE BACKFLOW PREVENTOR	ZURN	375XLB	PROVIDE WITH STRAINER AND FUNNEL DRAIN.  3 GPM @ 14 PSI LOSS MAX FOR ENDOSCOPIC REPROCESSING UNITS HOT SUPPLY.  BRONZE BODIED VALVE WITH BRONZE CHECK ASSEMBLIES, WITH 1/4 TURN BALL VALVES	-	-	-	-	-	1/2"	-
	REDUCED PRESSURE	ZURN	375XLB	PROVIDE WITH STRAINER AND FUNNEL DRAIN.  15 GPM @ 14 PSI LOSS MAX FOR HUMIDIFIERS. BRONZE BODIED VALVE WITH BRONZE CHECK  ACCEMBLIES WITH 4/4 TURN BALL MALVES BROWNER WITH STRAINER AND FUNNEL BRAIN.	-	-	-	-	-	1"	-
RPZ-5	BACKFLOW PREVENTOR			ASSEMBLIES, WITH 1/4 TURN BALL VALVES, PROVIDE WITH STRAINER AND FUNNEL DRAIN.					' l		

1 NO AERATORS ON ALL LAVATORIES AND SINKS. 2 ALL HARDWIRED FIXTURE TRANSFORMERS SHALL BE LOCATED ABOVE AN ACCESSIBLE CEILING NEARBY. FOR LAVS, TRANSFORMER SHALL BE LOCATED ABOVE AN ACCESSILE CEILING NEARBY OR LOCATED WITHIN LAVATORY SHIELD COVERS.

BranchPattern Built ENVIRONMENTS

CONSTRUCTION



BOLAND ARCHITECTS

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2/8/2023 3-22030

8 2/7/24

ADDENDUM #2 ASI #2 ASI #4

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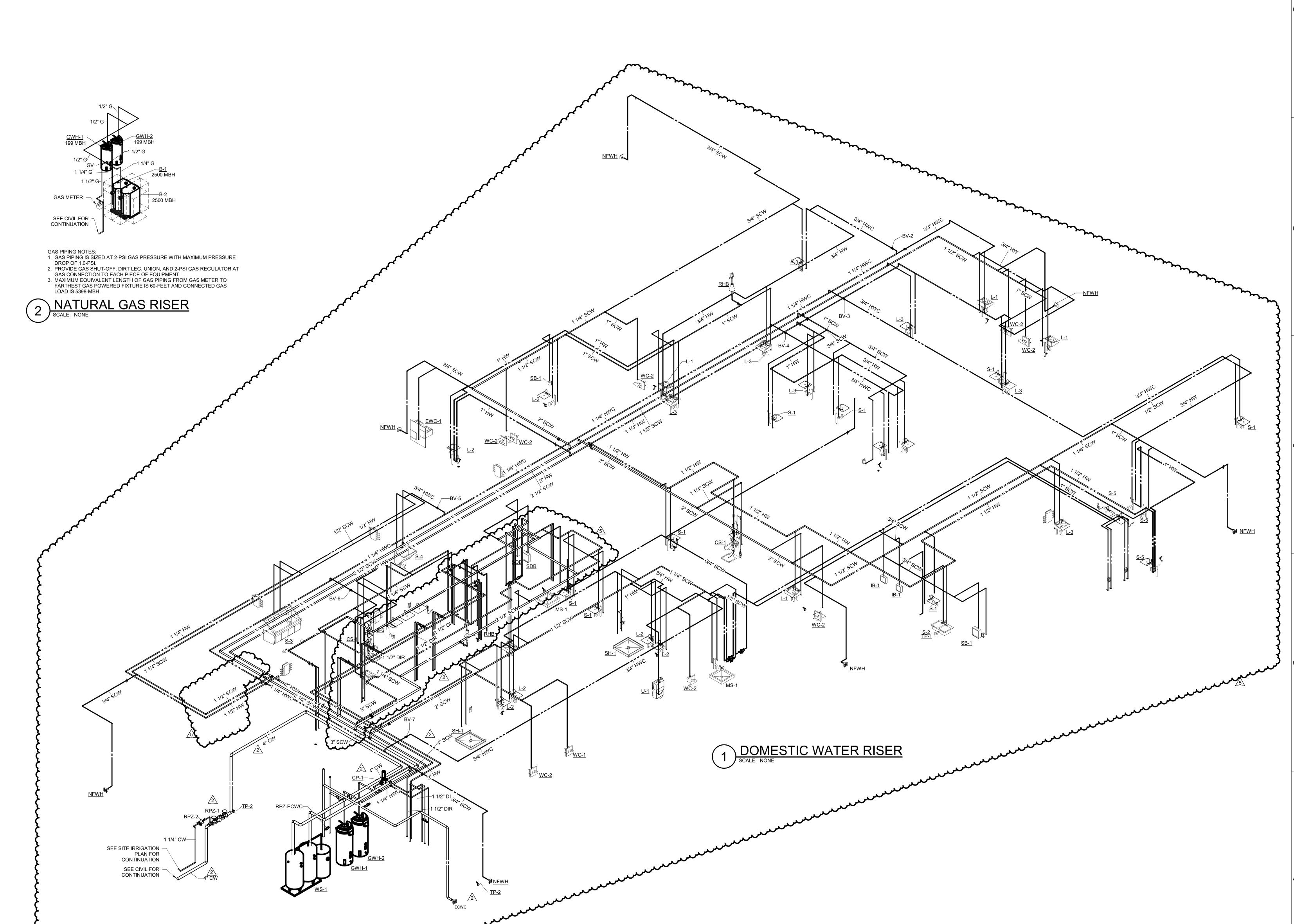
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2/8/2023 3-22030 JS AB, RC, MG

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2 2/20/23 ADDENDUM #2 5 11/8/23 ASI #2

PLUMBING WATER AND NATURAL GAS RISER



BIM 360://3-22030 HCA LSMC ASC/BP - HCA LSMC\_MEP\_R2

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RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

BOLAND ARCHITECTS

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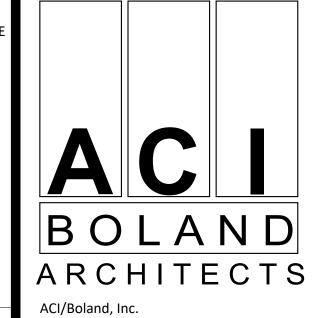
Surgery Center of Lee's Summit 1950 SE Shenandoah Drive Lee's Summit, MO 64063

2/8/2023 3-22030 JS AB, RC, MG

Number Date 5 11/8/23

P7.2

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review



Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600

Licensee's Certificate of Authority Number:

**CIVIL CONSULTANT** 

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**MEP CONSULTANT** BranchPattern

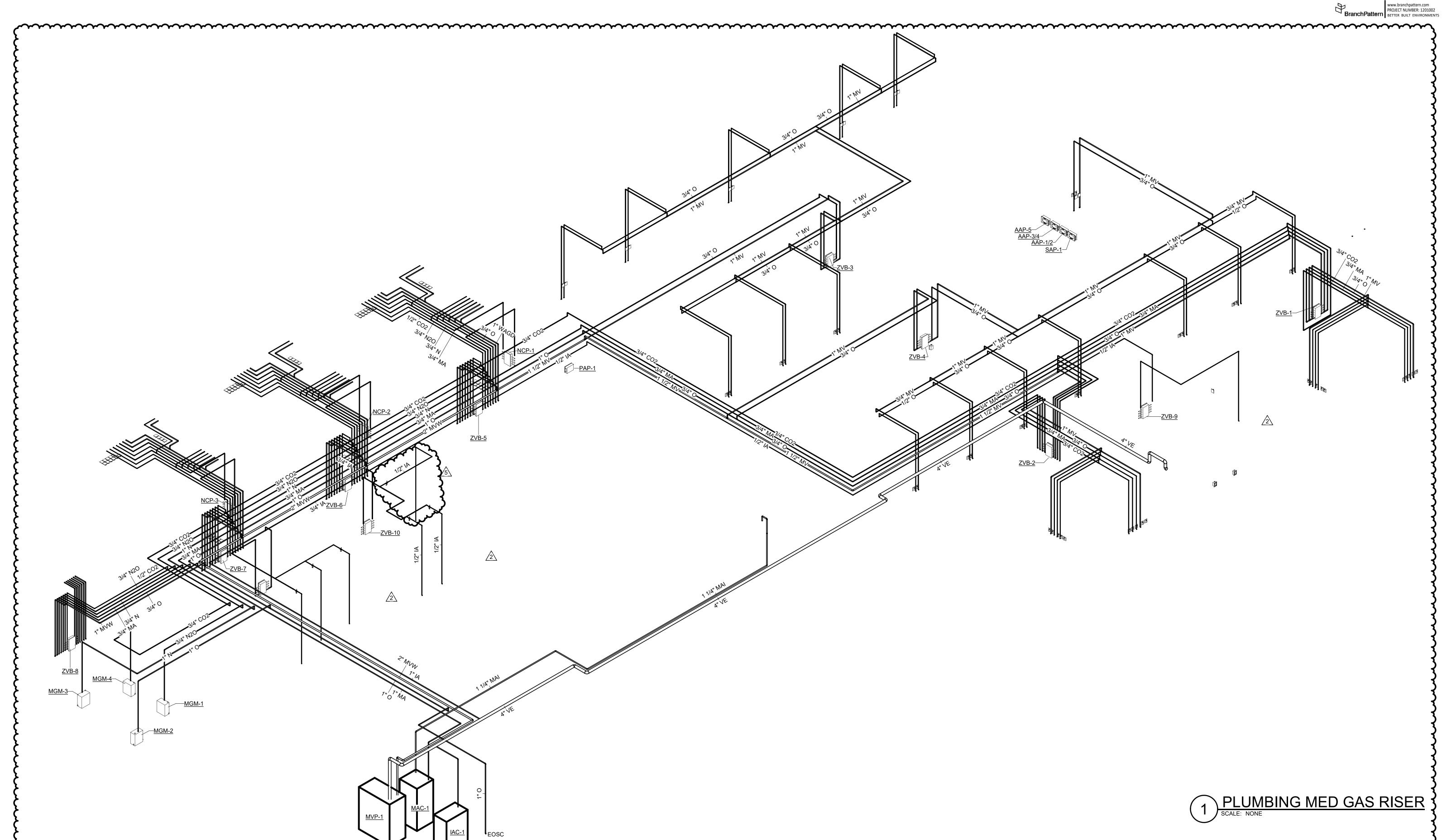
1508 Grand Boulevard Kansas City, MO 64108

> of Center

> > 2/8/2023 3-22030 JS AB, RC, MG

Number Date Description
2 2/20/23 ADDENDUM #2
5 11/8/23 ASI #2

PLUMBING MED GAS RISER



**ELECTRICAL LEGEND** 

ONE LINE AND RISER

PANEL

**─**~~

800A3P

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SURGE PROTECTION DEVICE

SWITCH, RATING AS SHOWN

FUSED DISCONNECT

FUSE, FUSE AMPACITY AND TYPE AS SHOWN

UTILITY METER (AS REQUIRED BY UTILITY)

SAFETY SWITCH, NON-FUSED, 240V, U.N.O.

COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)

ENCLOSED CIRCUIT BREAKER (SIZE AS INDICATED)

CIRCUIT BREAKER WITH GROUND FAULT PROTECTION

T T-XX TRANSFORMER, TYPE AND RATING AS SHOWN

AUTOMATIC TRANSFER SWITCH

FUSE WITH GROUND FAULT PROTECTION

**GROUND CONNECTION WITH TEST WELL** 

POLE MOUNTED UTILITY TRANSFORMER

SHORT CIRCUIT TAG DESIGNATION

PANEL NAME - CIRCUIT NUMBER

INSTALLED WIRING REQUIRES.

PANEL NAME - CIRCUIT NUMBER

CONDUIT TURNING DOWN

CONDUIT CONTINUATION

CONDUIT CAPPED FOR FUTURE USE

CONDUIT TURNING UP

HOME RUNS SHALL USE #12 AWG WIRE UNO.

\_ - CONDUIT AND WIRE EMBEDDED IN CONCRETE OR BELOW GRADE

BRANCH CIRCUITS HOMERUN USE NUMBER 12 AWG WIRE, UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL CONTAIN A GROUND AND

NEUTRAL CONDUCTOR, UNLESS NOTED OTHERWISE. CONTRACTOR

SHALL PROVIDE MULTI-WIRE CIRCUIT HANDLE TIES AS FINAL FIELD

CONDUIT AND WIRE CONCEALED, 3/4" UNLESS OTHERWISE NOTED,

CONDUIT USED FOR SWITCH LEGS, AND CONDUIT USED FOR CONTROL

FEEDER TAG DESIGNATION

CONDUIT CONNECTION

**GROUND ROD** 

SHUNT TRIP

CONDUIT DESIGNATIONS

**ENGINE GENERATOR** 

THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS

CURRENT TRANSFORMER, RATED AS SPECIFIED OR REQUIRED

MOTOR: HORSEPOWER AS INDICATED ON PLANS OR DIAGRAMS

CIRCUIT BREAKER, RATING AS SHOWN. LSIG DENOTES ELECTRONIC TRIP

UNIT WITH ADJUSTABLE SETTINGS FOR: L= LONG TIME TRIP DELAY, S= SHORT TIME TRIP DELAY, I= INSTANTANEOUS, G= GROUND FAULT

POWER

G = GFCI

T = TAMPER RESISTANT

U = DEVICE WITH USB CHARGING PORT

RECESS MOUNTED

POWER, RED IN COLOR.

RUN CONCEALED IN FLOOR SLAB

CONCEALED IN FLOOR SLAB

JUNCTION BOX, WALL MOUNTED

JUNCTION BOX, FLOOR MOUNTED

JUNCTION BOX, CEILING MOUNTED

POWER (SERVICE) POLE

NOTED ON PLAN

NOTED ON PLAN

**FUSED DISCONNECT** 

PHOTOCELL

PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER

PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER

AC = MOUNT 6" ABOVE COUNTER/BACKSPLASH 60" = SPECIAL MOUNTING HEIGHT AS NOTED

20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE, CONNECTED TO EMERGENCY

20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE, CONNECTED TO EMERGENCY

20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT

20 AMP, 125V, NEMA 5-20R CEILING FLOOR RECEPTACLE, 3/4" CONDUIT

20 AMP, 125V, NEMA 5-20R QUAD CEILING RECEPTACLE, 3/4" CONDUIT

20 AMP, 125V, NEMA 5-20R QUAD FLOOR RECEPTACLE, 3/4" CONDUIT RUN

SPECIAL RECEPTACLE, FLOOR MOUNTED, CONFIGURATION AS NOTED ON PLAN

SPECIAL RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN

FURNITURE FEED RECEPTACLE, FLOOR MOUNTED, CONFIGURATION

FURNITURE FEED RECEPTACLE, WALL MOUNTED, CONFIGURATION

COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)

ENCLOSED CIRCUIT BREAKER (SIZE AS INDICATED)

PLUGMOLD, REFER TO DRAWING FOR LENGTHS

SAFETY SWITCH, NON-FUSED, 240V, U.N.O.

EMERGENCY POWER OFF (EPO) BUTTON

ADA DOOR OPENER. MOUNT @ 48" AFF

POWER POKE THRU CONNECTION, FLOOR MOUNTED, CONFIGURATION AS

COMBINATION DISCONNECT, WITH RECEPTACLE, REFER TO DRAWING FOR SIZE

SELF-REGULATING HEATED CABLE – LENGTH AS SHOWN IN DRAWINGS.

REFERENCE ELECTRICAL/PLUMBING PLANS FOR SPECIFICATION OF

COMPLETE HEAT-TRACE SYSTEM. ARROW DENOTES DIRECTION

SPECIAL RECEPTACLE, CEILING MOUNTED, CONFIGURATION AS NOTED ON PLAN

20 AMP, 125V, NEMA 5-20R SWITCHED DUPLEX RECEPTACLE

WP = WEATHER PROOF

H = HOSPITAL GRADE

SUBSCRIPTS ADJACENT DEVICES INDICATE THE FOLLOWING:

20 AMP, 125V, NEMA 5-20R SIMPLEX RECEPTACLE

20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE

20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE

LIGHTING

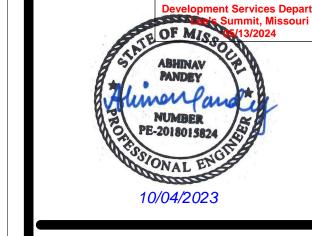
NOTE: UPPER CASE LETTER DENOTES LUMINAIRES TYPE. LOWER CASE LETTER

STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE

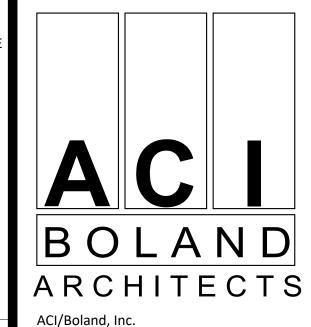
CEILING FAN

**MISCELLANEOUS** 

TRACK LUMINAIRE



CONSTRUCTION



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Job Number

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Revision

2/8/2023

3-22030

ASI#1

JB, AP

EACH MULTIWIRE BRANCH CIRCUIT SERVING EQUIPMENT OR FURNITURE. MEP CONSULTANT 18. REFERENCE DIVISION 22 AND 23 DRAWINGS AND SPECIFICATIONS FOR LOCATION AND REQUIREMENTS OF MECHANICAL AND PLUMBING EQUIPMENT. BranchPattern PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. 1508 Grand Boulevard

## ELECTRICAL LIGHTING NOTES

13. PROVIDE LOW VOLTAGE VACANCY/OCCUPANCY SENSORS WHERE MULTIPLE SENSORS ARE USED TO CONTROL THE SAME LUMINAIRE(S).

14. PROVIDE WALL MOUNTED VACANCY/OCCUPANCY SENSOR TO MATCH THE

SPECIFIED DEVICE COLOR. 15. INSTALL WALL MOUNTED OCCUPANCY SENSOR IN VACANCY MODE.

16. VACANCY/OCCUPANCY SENSOR VENDOR SHALL PROVIDE LAYOUT OF DEVICES AND PROPER DEVICE SELECTION FOR COMPLETE COVERAGE OF AREAS. SUBMIT SHOP DRAWINGS WHICH INDICATE LOCATIONS AND DEVICE TYPE AT EACH LOCATION, PROVIDE ADDITIONAL DEVICES AS REQUIRED, CONTRACTOR SHALL ADJUST DEVICES AS REQUIRED SO THE COVERAGE AREA CORRESPONDS TO THE AREA CONTROLLED AND SHALL RETURN TO SITE AS REQUIRED WITHIN 1 YEAR OF FINAL COMPLETION TO READJUST OR REPLACE ANY DEVICE WHICH IS

SUPPLY DEVICE.

18. CEILING MOUNTED VACANCY/OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE.

# FIRE ALARM GENERAL NOTES

		ABBREVIATIONS	<ol> <li>DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK.</li> </ol>
ITING	FIRE ALARM	A AMPS, AIR (COMPRESSED) AC ABOVE COUNTER	2. REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND OTHER DRAWINGS
UPPER CASE LETTER DENOTES LUMINAIRES TYPE. LOWER CASE LETTER		AF FUSE RATING AFC ABOVE FINISHED CEILING	FOR ADDITIONAL SCOPE REQUIREMENTS PRIOR TO BID.
ADJACENT TO LUMINAIRE INDICATES SWITCH THAT CONTROLS LUMINAIRES. MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	FACP FIRE ALARM CONTROL PANEL	AFEA AREA FOR EVACUATION ASSISTANCE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE	<ol><li>WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.</li></ol>
LIFE CAFETY DOWED CHADING	FARA FIRE ALARM REMOTE ANNUNCIATOR PANEL  FATC FIRE ALARM CONTROL PANEL	AIC AMPERE INTERRUPTING CURRENT AL ALUMINUM	4. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE CURRENT
LIFE SAFETY POWER SHADING	BACP BACKUP FIRE ALARM CONTROL PANEL	ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE AV AUDIO VISUAL	ADOPTED EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND STANDARDS.  5. OBTAIN PERMITS AND INSPECTIONS REQUIRED.
CRITICAL POWER SHADING	HVAC FIRE ALARM CONTROL PANEL	BFF BELOW FINISHED FLOOR	OBTAIN PERMITS AND INSPECTIONS REQUIRED.  6. FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH
_	EVAC VOICE EVACUATION FIRE ALARM CONTROL PANEL	BKR BREAKER BOS BOTTOM OF STRUCTURE	MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND
RECESSED LUMINAIRE	SCP FIRE ALARM SMOKE CONTROL PANEL  NAC FIRE ALARM NOTIFICATION CIRCUIT PANEL	BTU BRITISH THERMAL UNIT  C CONDUIT	EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED.
Ā	M2W FIRE ALARM MASTER 2-WAY CONTROL PANEL	CATV CABLE TELEVISION SYSTEM CCTV CLOSED CIRCUIT TELEVISION	<ol> <li>CONTRACTOR SHALL REPLACE EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS CONTRACT.</li> </ol>
SURFACE LUMINAIRE	AMP FIRE ALARM AMPLIFIER RACK PANEL	CKT CIRCUIT CLG CEILING	CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS
A	MIC FIRE ALARM MICROPHONE PANEL	CM COFFEE MAKER CT CURRENT TRANSFORMER CU COPPER, CONDENSING UNIT	AND/OR EQUIPMENT IN A TIMELY MANNER WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION
WALL MOUNTED LUMINAIRE	SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC	CW CLOTHES WASHER	METHODS.
LINEAR PENDANT LUMINAIRE	SMOKE DETECTOR, EARLY WARNING LASER DETECTION	(D) DEMOLISHED DN DOWN DPDT DOUBLE POLE, DOUBLE THROW	9. SYSTEMS SHALL BE COMPLETE, AND READY FOR CONTINUOUS OPERATION.
4	CARBON MONOXIDE DETECTOR	DPST DOUBLE POLE, BOODLE THROW  DW DISHWASHER	10. DEVICE BOXES SHALL BE MINIMUM 4" SQUARE.
PENDANT LUMINAIRE	FD FLAME DETECTOR	(E) EXISTING	<ol> <li>PROVIDE NEW UPDATED TYPED PANELBOARD DIRECTORIES FOR PANELS MODIFIED OR INSTALLED AS A PART OF THIS PROJECT.</li> </ol>
A.	HD HEAT DETECTOR	ECD ELECTRIC CLOTHES DRYER ENCL ENCLOSURE EPO EMERGENCY POWER OFF	12. CONDUITS PENETRATING THROUGH ROOF SHALL BE APPROVED BY OWNER'S
STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE	1 2	ETR EXISTING TO REMAIN  EWC ELECTRIC WATER COOLER	ROOFING CONTRACTOR. INSTALLATION SHALL BE WATERTIGHT AND PERFORMED BY OWNER'S ROOFING CONTRACTOR AT ELECTRICAL
`	G GAS DETECTOR	FBO FURNISHED BY OTHERS	CONTRACTOR'S EXPENSE.
SURFACE MOUNTED DOWNLIGHT	DUCT SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC	FF FINISHED FLOOR FHC FIRE HOSE CABINET FLA FULL LOAD AMPS	13. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING EQUIPMENT SHALL BE WITH FLEXIBLE CONDUIT AND APPROVED FITTINGS THAT
RECESSED MOUNTED DOWNLIGHT	FIRE ADA ALARM STROBE MOUNTED AT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER	FLR FLOOR FRZR FREEZER	DO NOT REDUCE THE USABLE INTERNAL DIAMETER OF THE CONDUIT. REFERENCE SPECIFICATIONS FOR SPECIFIC PRODUCTS. DO NOT SECURE
	$\nabla$	FVNR FULL VOLTAGE, NON REVERSING	CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
WALL MOUNTED LUMINAIRE	FIRE ADA ALARM HORN MOUNTED AT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER	GD GARBAGE DISPOSAL GFI GROUND FAULT CIRCUIT INTERRUPTER (PERSONAL PROTECTION ON DEVICE)	14. WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL
	FIRE ALARM AUDIBLE AND ADA STROBE LIGHT MOUNTED AT 80" AFF OR 6	GFP GROUND FAULT PROTECTED FROM UPSTREAM	BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" CONDUIT SHALL BE INSTALLED FOR EVERY THREE
WALL WASH LUMINAIRE	FIRE ALARM AUDIBLE AND ADA STROBE LIGHT MOUNTED AT 80" AFF OR 6 BELOW CEILING, WHICHEVER IS LOWER	GND GROUND	SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS.
- RECESSED STEP LIGHT LUMINAIRE	FIRE ADA ALARM SPEAKER MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER	HOA HAND OFF AUTOMATIC HP HORSEPOWER HPS HIGH PRESSURE SODIUM	15. ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR
	FIRE ALARM SPEAKER AND ADA STROBE LIGHT MOUNTED AT 80" AFF OR OBELOW CEILING, WHICHEVER IS LOWER	HTG HEATING	OTHER RECOGNIZED TESTING FACILITY.
TRACK LUMINAIRE		ISCA AVAILABLE SHORT-CIRCUIT CURRENT (AMPS)	<ol> <li>PROVIDE AN INSULATED GROUND CONDUCTOR WITH EACH LINE VOLTAGE CIRCUIT.</li> </ol>
CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL CHEVRONS AS REQUIRED	FIRE ADA ALARM STROBE CEILING MOUNTED	IG ISOLATED GROUND  KCMIL 1000 CIRCULAR MILS	17. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT
A	FIRE ADA ALARM HORN CEILING MOUNTED	KV KILOVOLT  KVA KILOVOLT AMPS	REQUIRING A NEUTRAL CONDUCTOR. PROVIDE MULTIPOLE BREAKERS FOR EACH MULTIWIRE BRANCH CIRCUIT SERVING EQUIPMENT OR FURNITURE.
EMERGENCY BATTERY LUMINAIRE (2 HEAD) 84" AFF, UNLESS OTHERWISE NOTED	FIRE ALARM AUDIBLE AND ADA STROBE LIGHT CEILING MOUNTED	KVAR KILOVOLT AMPS REACTIVE KW KILOWATT	18. REFERENCE DIVISION 22 AND 23 DRAWINGS AND SPECIFICATIONS FOR
	FIRE ALARM AUDIBLE AND ADA STROBE LIGHT CEILING MOUNTED	KWH KILOWATT HOUR  LED LIGHT EMITTING DIODE	LOCATION AND REQUIREMENTS OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.
EMERGENCY BATTERY LUMINAIRE (2 HEAD) WITH MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL CHEVRONS AS REQUIRED MOUNT AT 84" AFF, UNLESS	FIRE ADA ALARM SPEAKER CEILING MOUNTED	LF LINEAR FEET LRA LOCKED ROTOR AMPS	19. PROVIDE FUSES SIZED PER MANUFACTURERS RECOMMENDATIONS.
OTHERWISE NOTED	FIRE ALARM SPEAKER AND ADA STROBE LIGHT CEILING MOUNTED	MATV MASTER ANTENNA TELEVISION SYSTEM	20. COORDINATE THE EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES
WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL CHEVRONS AS REQUIRED		MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER	WITH ARCHITECTURAL AND EQUIPMENT PLANS AND ELEVATIONS.
,A		MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL	21. REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR LOW-VOLTAGE SYSTEMS INFRASTRUCTURE REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL
SINGLE POLE MOUNTED, EXTERIOR LUMINAIRE	MAGNETIC DOOR HOLDER  FS FIRE ALARM FLOW SWITCH	MFP MULTI-FUNCTION PRINTER MFR MANUFACTURER MH MANHOLE	PROVIDE ALL CONDUITS AND BACKBOXES REQUIRED FOR LOW-VOLTAGE SYSTEMS.
DOUBLE BOLE MOUNTED EXTERIOR LUMINAIDE	TS FIRE ALARM TAMPER SWITCH	MSB MAIN SWITCHBOARD MTD MOUNTED	22. RACEWAYS SHALL NOT BE ROUTED HORIZONTALLY ABOVE ROOF. RACEWAY
DOUBLE POLE MOUNTED, EXTERIOR LUMINAIRE	CM FIRE ALARM CONTROL MODULE (W/ INPUT/OUTPUT MODULE)	MW MICROWAVE	SHALL PENETRATE ROOF AT LOCATION OF EQUIPMENT SERVED.
QUAD POLE MOUNTED, EXTERIOR LUMINAIRE	RTS DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST	(N) NEW N/A NOT APPLICABLE NIC NOT IN CONTRACT	23. FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND
	M2W TWO WAY COMMUNICATION MASTER STATION	N/O,N/C NORMALLY OPEN, NORMALLY CLOSED  N/L NIGHT LIGHT	GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.
BOLLARD LUMINAIRE	TWO WAY CALL STATION  TWO WAY CALL STATION	OC ON CENTER	24. WIRING IN PATIENT CARE AREAS SHALL COMPLY WITH NEC 517.13(A) AND (B).
	ZWI TWO WAT GALL STATIST	OV OVEN PDU POWER DISTRIBUTION UNIT	
CEILING FAN		PH,ø PHASE PJ PROJECTOR	ELECTRICAL LIGHTING NOTES
SINGLE POLE SWITCH	STD. MOUNTING HEIGHTS U.N.O.	PLOT PLOTTER PNL PANEL	COORDINATE THE LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND
(SWITCH LOWER CASE LETTER INDICATES DEVICE CONTROL)  3= THREE WAY SWITCH  4= FOUR WAY SWITCH	ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS	PRINT PRINTER (SMALL) PT POTENTIAL TRANSFORMER	DEVICES WITH ARCHITECTURAL DRAWINGS. WHERE LUMINAIRES OR DEVICES ARE NOT SPECIFICALLY INDICATED, COORDINATE LOCATIONS AND MOUNTING
K= KEYED SWITCH D= DIMMER SWITCH TO= MOTOR THERMAL OVERLOAD SWITCH T= TIMER	INDICATED ON ELECTRICAL DRAWINGS. DIMENSION TO CENTERLINE UNO. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD DEVICE MOUNTING HEIGHTS DETAIL.	QTY QUANTITY	HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
HOA=HAND-OFF-AUTOMATIC P= PILOT LIGHT OS= OCCUPANCY SENSOR VS= VACANCY SENSOR	RECEPTACLES	18" (R) RELOCATED RA RETURN AIR	<ol> <li>CONNECT EMERGENCY LIGHTING AND EXIT SIGNS AS REQUIRED PER NEC AND NFPA 99.</li> </ol>
LVD= LOW VOLTAGE DIMMER M=MOTOR SPEED CONTROL	RECEPTACLES IN EQUIPMENT ROOMS	RANGE RANGE\STOVE RCP REFLECTED CEILING PLAN REF REFRIGERATOR	3. COORDINATE PENDANT HUNG INDUSTRIAL STRIP(S) IN UNFINISHED AREAS WITH
	RECEPTACLES (GARAGES)	24" REV REVISION RH RELATIVE HUMIDITY	PIPING, DUCTWORK, EQUIPMENT, CABLE TRAY, ETC. TO AVOID CONFLICTS. MAKE MINOR ADJUSTMENTS TO LUMINAIRE LOCATIONS AS REQUIRED.
CEILING MOUNTED SENSOR; VS= VACANCY, OS= OCCUPANCY, DL= DAYLIGHT	ALARMS, SWITCHES AND CONTROLS TELEPHONE OUTLETS	48" RLA RUNNING LOAD AMPS RPM REVOLUTIONS PER MINUTE	4. RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS
WALL MOUNTED SENSOR; VS= VACANCY, OS= OCCUPANCY, DL= DAYLIGHT	SAFETY SWITCHES STARTERS	48" SA SUPPLY AIR SMOKE DETECTOR	SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.
	PANELS (TOP)	72" SF SQUARE FEET SINGLE POLE, DOUBLE THROW	<ol><li>FIXTURES RECESSED IN "T-BAR" CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM WITH HANGER WIRES UP TO STRUCTURE.</li></ol>
	FIRE ALARM PULL STATIONS (HANDLE)	48" SP STATIC PRESSURE	SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL ELECTRICAL CONNECTION
CELLANEOUS		80" SWBD SWITCHBOARD  2'-0" TL TWISTLOCK	TO FIXTURE SHALL BE MADE WITH FLEXIBLE CONDUIT OR UL LISTED ASSEMBLY.
> KEY NOTE DESIGNATION	FIRE ALARM CONTROL PANEL (TOP) ANNUNCIATION PANELS	66" TV TELEVISION TYP TYPICAL	<ol> <li>VERIFY TRIM COMPATIBILITY WITH CEILING TYPE INDICATED IN ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING LUMINAIRES. MODIFY TRIMS AS</li> </ol>
KEY NOTE DESIGNATION  KEY NOTE DESIGNATION	INTERCOM	48" U/F UNDERFLOOR	REQUIRED TO WORK WITH SPECIFIED CEILINGS.
LET NOTE DESIGNATION	REMOTE INDICATING LIGHT (FINISHED AREAS)  CEIL	ING U/S UNDER SLAB UNDERWRITERS LABORATORIES, INC.	<ol> <li>LOSS OF UTILITY POWER SHALL ENERGIZE THE EMERGENCY GENERATOR AND TRANSFER POWER FOR LIFE-SAFETY BRANCH ILLUMINATION IS 10 SECONDS OR</li> </ol>
REVISION NUMBER DESIGNATION	EXIT SIGNS (WALL MOUNTED BOTTOM)  TELEVISION OUTLETS  6" ABOVE DO AS INDICATOR	OOR UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY	LESS. COMPONENTS OF SYSTEM SHALL BE UL924 LISTED FOR EMERGENCY TRANSFER.
NEW TO EXISTING CONNECTION	MAXIMUM HEIGHT OF OPERABLE COMPONENTS  48" TO 1		8. PROVIDE COSTS FOR ADDING 3 ADDITIONAL EXIT SIGNS PER LEVEL AS
DEMO TO EXISTING CONNECTION	PHOTOCELLS		REQUIRED BY THE FIRE MARSHAL AT THE TIME OF FINAL INSPECTION. LOCATE AS REQUIRED BY FIRE MARSHAL.
SPECIALTY EQUIPMENT (BY OTHERS)		W WATTS	9. PROVIDE OCCUPANCY/VACANCY SENSOR RELAYS AND POWER PACKS FOR
		W/ WITH W/O WITHOUT WP WEATHERPROOF	LIGHTING CONTROL FUNCTION INDICATED. PROVIDE 1 SET OF AUXILIARY CONTACTS IN LOW VOLTAGE SENSORS FOR HVAC CONTROLS.
		WP WEATHERPROOF WT WATERTIGHT, WEIGHT	10. SET VACANCY/OCCUPANCY SENSORS TO 15 MINUTE TIME DELAY UNLESS NOTED
		XFMR TRANSFORMER XP EXPLOSION PROOF	OTHERWISE. DO NOT EXCEED MAXIMUM CODE REQUIRED TIME DELAY.
			11. CONNECT OCCUPANCY SENSOR(S) AHEAD OF LOCAL LIGHTING CONTROLS.
	FIFC	TRICAL SHEET INDEX	12. WHERE MULTIPLE VACANCY/OCCUPANCY SENSORS ARE LOCATED IN THE SAME ROOM OR SPACE, CONNECT SO EACH SENSOR CONTROLS ALL LIGHTING
		AL LEGEND & NOTES	(EXCEPT NON-SWITCHED EMERGENCY LIGHTING) WITHIN THAT ROOM OR SPACE.
		AL SITE DI ANI	

	ELECTRICAL SHEET INDEX	
E0.1	ELECTRICAL LEGEND & NOTES	
E1.0	ELECTRICAL SITE PLAN	
E1.1	FIRST FLOOR POWER PLAN - OVERALL	
E1.2	ROOF ELECTRICAL PLAN	
E2.1	FIRST FLOOR LIGHTING PLAN - OVERALL	
E3.1	FIRST FLOOR SPECIAL SYSTEMS PLAN - OVERALL	
E4.1	ENLARGED ELECTRICAL PLANS	
E5.1	ELECTRICAL DETAILS	
E6.1	ONE-LINE DIAGRAM	
E7.1	ELECTRICAL SCHEDULES	
E7.2	ELECTRICAL SCHEDULES	
E7.3	ELECTRICAL SCHEDULES	
E7.4	ELECTRICAL SCHEDULES	

# REQUIRED TO WORK WITH SPECIFIED CEILINGS.

NOT PROPERLY FUNCTIONING. THE LOCATION OF THE VACANCY/OCCUPANCY SENSOR(S) ON THESE DRAWING ARE DIAGRAMMATIC.

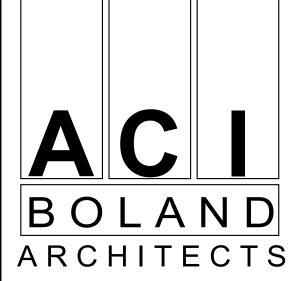
17. DO NOT LOCATE VACANCY/OCCUPANCY SENSORS WITHIN 3' OF AN HVAC

PROVIDE FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRES, AND CABLE AS DIRECTED BY EQUIPMENT MANUFACTURER. MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL MEET ADOPTED CODES. THE SYSTEM SHALL BE COMPLETE AND OPERATIONAL IN EVERY RESPECT. SHOP DRAWINGS SHALL INCLUDE A SINGLE LINE DIAGRAM THAT INDICATES DEVICES, CONDUIT, WIRE, CABLE SIZES AND EQUIPMENT TO BE USED. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED ENGINEER PROVIDED BY THE FIRE ALARM VENDOR. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.

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Job Number Drawn By Checked By

2/8/2023 3-22030

Number Date 8 2/7/24

E1.0

ELECTRICAL SITE PLAN

PROJECT NUMBER: 1201002 BranchPattern BETTER BUILT ENVIRON

KEY NOTES 🕸 (THIS SHEE

REFER TO DETAIL A1/SHEET E4.1 FOR DEVICE LAYOUT IN THIS

DO NOT PENETRATE THIS ROOM WITH CONDUIT OR WIRING WHICH SERVES OTHER AREAS.

CONNECTION TO FIRE ALARM EQUIPMENT PANEL(S) AND ASSOCIATED POWER SUPPLIES.

CONNECTION TO LOW VOLTAGE TRANSFORMER SERVING AUTOMATIC FAUCET AND/OR FLUSH VALVE. PROVIDE A TOGGLE SWITCH DISCONNECT ABOVE FINISHED ACCESSIBLE CEILING. WHERE A HARD CEILING EXISTS, PROVIDE SUITABLE ACCESS PANEL. PROVIDE CONDUIT PATHWAY AND BACKBOXES AS REQUIRED FOR CONCEALED INSTALLATION. COORDINATE EXACT LOCATION WITH PLUMBING ROUGH-IN. WIRING BETWEEN TRANSFORMER AND FAUCETS/VALVES SHALL BE PROVIDED BY DIVISION 22.

CONNECTION TO AUTOMATIC DOOR OPERATOR. PROVIDE A TOGGLE SWITCH DISCONNECT ABOVE FINISHED ACCESSIBLE CEILING ADJACENT TO THE EQUIPMENT SERVED. COORDINATE WITH ARCHITECTURAL DRAWINGS AND DOOR HARDWARE SCHEDULE FOR ROUGH-IN OF BACK BOXES FOR DOOR PUSH

RECEPTACLE(S) FOR ELECTRIC WATER COOLER. COORDINATE MOUNTING WITH MANUFACTURER'S REQUIREMENTS. PROVIDE DEAD-FRONT GFCI DEVICE ADJACENT TO WATER COOLER PANEL, CONNECTED TO PROVIDE GFCI PROTECTION TO DOWNSTREAM RECEPTACLE(S).

GENERATOR REMOTE ANNUNCIATOR PANEL, 1 OF 2. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE SURFACE-MOUNT ENCLOSURE IF INSTALLED IN UNFINISHED SPACE. IF OWNER DIRECTS TO INSTALL IN A FINISHED SPACE, PROVIDE FLUSH-MOUNT ENCLOSURE.

GENERATOR REMOTE ANNUNCIATOR PANEL, 2 OF 2, FIELD COORDINATE EXACT LOCATION ALONG WALL WITH OTHER ALARM PANELS AND PUSH BUTTONS ABOVE COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS PROVIDE FLUSH-MOUNT

ENCLOSURE FOR ANNUNCIATOR PANEL. ). EMERGENCY POWER OFF (EPO) BUTTON FOR SHUTDOWN OF

GENERATOR. CONNECT EPO BUTTONS AS REQUIRED. PROVIDE CLEAR, HINGED COVER. . EMERGENCY POWER OFF (EPO) BUTTON FOR SHUTDOWN OF AIR

HANDLING UNITS. CONNECT EPO BUTTONS AS REQUIRED. PROVIDE CLEAR, HINGED COVER.

2. CONNECTION TO AUTOMATIC PASSTHROUGH. PROVIDE 120V/1P TOGGLE SWITCH ADJACENT TO UNIT FOR DISCONNECTING MEANS. 3. CONNECTION TO WASHER/DISINFECTOR. PROVIDE (3)#8, (1)#10G,

IN 1"C. PROVIDE NEMA-1, 60A/3P NON-FUSED DISCONNECT SWITCH. 4. RECEPTACLE FOR AUTOMATIC DETERGENT DISPENSER 15. CONNECTION TO ULTRASONIC CLEANER. PROVIDE (3)#12, (1)#12G,

16. CONNECTION TO MEDIUM-SIZE STERILIZER POWER. PROVIDE (3)#12, (1)#12G, IN 3/4" C. PROVIDE NEMA-1, 30A/3P NON-FUSED DISCONNECT. COORDINATE MOUNTING OF DISCONNECT WITH

7. CONNECTION TO MEDIUM-SIZE STERILIZER ELECTRIC STEAM GENERATOR, PROVIDE (3)#4, (1)#8G, IN 1-1/4" C. PROVIDE NEMA-1. 100A/3P NON-FUSED DISCONNECT. COORDINATE MOUNTING OF DISCONNECT WITH PLUMBING.

18. CONNECTION TO STERILIZER CONTROLS. PROVIDE 120V/1P TOGGLE SWITCH ADJACENT TO UNIT FOR DISCONNECTING MEANS. COORDINATE MOUNTING OF TOGGLE SWITCH WITH PLUMBING.

9. CONNECTION TO SMALL-SIZE STERILIZER POWER AND ELECTRIC STEAM GENERATOR. PROVIDE (3)#8, (1)#10G, IN 3/4" C. PROVIDE NEMA-1, 60A/3P NON-FUSED DISCONNECT. COORDINATE MOUNTING OF DISCONNECT WITH PLUMBING.

20. RECEPTACLE FOR LOW-TEMP STERILIZER.

1. EMERGENCY POWER OFF (EPO) BUTTON FOR SHUTDOWN OF STERILIZERS. CONNECT EPO BUTTONS AS REQUIRED. PROVIDE CLEAR, HINGED COVER. MOUNT AT 60" AFF.

2. EMERGENCY POWER OFF (EPO) BUTTON FOR SHUTDOWN OF BOILERS. CONNECT EPO BUTTONS AS REQUIRED. PROVIDE CLEAR, HINGED COVER. MOUNT AT 60" AFF. ᡝᠰᢇᠬᢇᠬᢇᠬᢇᢇᠬᢇᢇᢇᢇᢇᢇ 23. CONNECTION TO BAS CONTROL PANEL. PROVIDE 600VA, 120V/1PH

UPS FOR BAS MAIN POWER SUPPLY. COORDINATE WITH BAS CONTROLS VENDOR FOR EXACT CABINET LOCATION AND ADDITIONAL POWER REQUIREMENTS. 

25. STACKED TRANSFORMER MOUNTING. PROVIDE UNISTRUT FRAME FOR STACKING ONE TRANSFORMER ABOVE THE OTHER AS REQUIRED. PROVIDE BRACING AS REQUIRED TO RESIST LATERAL MOVEMENT.

6. RECEPTACLES INSTALLED AT BASE OF BUILT-IN BENCH. MOUNT RECEPTACLES HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DETAILS.

7. RECEPTACLES INSTALLED IN BUILT-UP CASEWORK. CONDUIT SHALL BE CONCEALED WITHIN CASEWORK, STUBBED UP FROM BELOW AS REQUIRED.

8. MOUNT RECEPTACLES ON THE REAR SIDE OF THE TELECOM EQUIPMENT RACKS, AT BOTTOM OF RACK, WITH CONDUIT STUBBED UP FROM BELOW. CONDUIT ROUTING AND WIRING DEVICE BOXES SHALL NOT BLOCK OR IMPEDE ACCESS TO RACK EQUIPMENT. CONFIRM SPECIAL RECEPTACLE CONFIGURATION

29. RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. CONNECT TO ABOVE COUNTER TOGGLE SWITCH.

30. CONNECTION FOR EMPLOYEE TIME CLOCK. COORDINATE FINAL MOUNTING AND CONNECTION TYPE WITH PROVIDED EQUIPMENT.

1. CONNECTION TO VENDOR BADGE MAKER. COORDINATE FINAL MOUNTING AND CONNECTION TYPE WITH PROVIDED EQUIPMENT.

32. CONNECTION TO PIPING HEAT TRACE SYSTEM. REFER TO PLUMBING DRAWINGS FOR HEAT TRACE LOCATION AND SPECIFICATION.

33. NOT USED.

34. CONNECTION TO ILLUMINATED BUILDING SIGNAGE. COORDINATE MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS. COORDINATE WIRING AND CONTROL REQUIREMENTS WITH SIGNAGE VENDOR PRIOR TO INSTALLATION.

35. CONNECTION TO PRE-WIRED FURNITURE SYSTEM POWER WHIP. RECEPTACLES ARE INTEGRAL TO FURNITURE SYSTEM PANELS AND PROVIDED BY FURNITURE VENDOR, CONNECT PER MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH LOW VOLTAGE FOR ADDITIONAL FURNITURE FEED COMPONENTS.

36. CONNECTION TO DRY-PIPE FIRE PROTECTION SYSTEM AIR COMPRESSOR. PROVIDE 120V/1P TOGGLE SWITCH ADJACENT TO EQUIPMENT FOR DISCONNECTING MEANS. PRIOR TO ORDERING, VERIFY CIRCUIT BREAKER SIZE, WIRING SIZE, AND ADDITIONAL REQUIREMENTS WITH ACTUAL AIR COMPRESSOR SPECIFIED BY THE FIRE PROTECTION ENGINEER.

37. CONNECTION TO DRY-PIPE FIRE PROTECTION SYSTEM MONITORING DEVICES, ALARMS, AND CONTROLS AS REQUIRED.

38. PROVIDE ENCLOSED CIRCUIT BREAKER WITH ELECTRONIC TRIP FOR PROTECTION OF DOWNSTREAM PANELBOARD. REFER TO

ONE-LINE DIAGRAM FOR SIZE. 39. PULL (3) 3/4" SPARE CONDUIT WITH PULL STRING TO THIS SPACE

40. PROVIDE WIREMOLD SERIES AL3300 SURFACE RACEWAY. MOUNT RACEWAY AT 48" AFF. PROVIDE RECEPTACLES AND DEVICE PLATES AS REQUIRED, AND PROVIDE ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM, INCLUDING BUT NOT LIMITED TO END CAPS, BLANK PLATES, COVERS, COUPLINGS, AND OTHER

TO THE MANUFACTURER. 41. PROVIDE J-BOX ROUGHED-IN AT 36" AFF FOR FUTURE WALL RECEPTACLE. PROVIDE BLACK COVERPLATE AND CONDUIT STUBBED TO ABOVE CEILING WITH PULL-STRING.

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ADDENDUM #2 10/5/23 ASI #1 ASI #2

2/8/2023

3-22030

JB, AP

11/8/23 ASI #4 ASI#6 9 4/29/24

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FIRST FLOOR POWER PLAN -OVERALL

PROJECT NUMBER: 1201002

BranchPattern BETTER BUILT ENVIRONMENTS

(THIS SHEET REFER TO SHEET E0.1 FOR ELECTRICAL SYMBOL LEGEND AND ADDITIONAL GENERAL NOTES.

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT

LOCATION OF LUMINAIRES. EXIT SIGNS SHALL BE CONNECTED TO "UNSWITCHED" LEG OF THE

EXIT SIGN LOCATIONS ARE SHOWN FOR CIRCUITING AND ROUGH-IN ONLY. REFER TO LIFE SAFETY DRAWINGS FOR EXACT LOCATION, ORIENTATION, AND DIRECTIONAL ARROWS. EXIT SIGNS SHALL BE INSTALLED AFTER SITE WALKTHROUGH REVIEW BY FIRE

CONNECT EMERGENCY LIGHTING AND EXIT SIGNS AHEAD OF LOCAL

COORDINATE THE LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND DEVICES WITH ARCHITECTURAL DRAWINGS. WHERE LUMINAIRES OR DEVICES ARE NOT SPECIFICALLY INDICATED, COORDINATE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

VERIFY FIXTURE TRIM COMPATIBILITY WITH CEILING TYPES INDICATED IN ARCHITECTURAL CEILING PLANS AND DETAILS PRIOR TO ORDERING ANY LUMINAIRES.

COORDINATE LUMINAIRE LOCATIONS, MOUNTING, AND SUPPORTS WITH MECHANICAL DUCTWORK, PIPING, AND OTHER TRADES TO

AVOID CONFLICTS. LOSS OF UTILITY POWER SHALL ENERGIZE EGRESS LIGHTING.

. PROVIDE OCCUPANCY/VACANCY SENSOR RELAYS AND POWER PACKS AS REQUIRED TO PROVIDE THE LIGHTING CONTROL FUNCTION INDICATED. PROVIDE LOW VOLTAGE SENSORS WITH 1 SET OF AUXILIARY CONTACTS FOR INTEGRATION WITH HVAC

SET OCCUPANCY/VACANCY SENSORS TO 15 MINUTE DELAY, UNLESS NOTED OTHERWISE. DO NOT EXCEED MAXIMUM CODE ALLOWED

. CONNECT OCCUPANCY/VACANCY SENSORS AHEAD OF LOCAL LIGHTING CONTROLS.

. WHERE MULTIPLE OCCUPANCY/VACANCY SENSORS ARE LOCATED IN THE SAME ROOM OR SPACE, CONNECT SENSORS TO CONTROL

ALL LIGHTING (EXCEPT NON-SWITCHED EMERGENCY LIGHTING) WITHIN THAT ROOM OR SPACE, UNLESS NOTED OTHERWISE. LOCATIONS OF THE OCCUPANCY/VACANCY SENSORS ON THESE DRAWINGS ARE DIAGRAMMATIC. LIGHTING CONTROL VENDOR

SHALL PROVIDE LAYOUT OF DEVICES AND DEVICE SELECTION FOR COMPLETE SENSOR COVERAGE OF AREAS. SUBMIT SHOP DRAWINGS WHICH INDICATE LOCATIONS AND DEVICE TYPE. PROVIDE ADDITIONAL DEVICES AS REQUIRED. CONTRACTOR SHALL ADJUST DEVICES AS REQUIRED FOR COVERAGE OF THE CONTROLLED AREAS. CONTRACTOR SHALL RETURN TO SITE AS REQUIRED WITHIN 1 YEAR OF FINAL COMPLETION TO RE-ADJUST OR REPLACE DEVICES WHICH ARE NOT FUNCTIONING PROPERLY.

5. DO NOT LOCATE CEILING SENSORS WITHIN 3' OF AN HVAC SUPPLY

16. LIGHTING CONTROL SENSORS SHALL BE DUAL TECHNOLOGY TYPE UNLESS NOTED OTHERWISE.

SWITCHES IN PATIENT PREP/RECOVERY ROOMS AND IN PROCEDURE/OPERATING ROOMS SHALL BE LABELED WITH FUNCTIONAL DESCRIPTION. FINAL LABEL SHALL BE APPROVED BY OWNER PRIOR TO ORDERING.

18. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING FOR UNDERCOUNTER LUMINAIRES.

(THIS SHEET

MASTER OVERRIDE SWITCH FOR NIGHTTIME SHUTOFF OF ALL "A3E" AND "W1" LIGHT FIXTURES IN ALL PRE-OP AND RECOVERY

WHICH SERVES OTHER AREAS.

PROVIDE 3-BUTTON WALL-MOUNT DIGITAL OVERRIDE SWITCH TO INCLUDE 'ON', 'OFF', AND 'AUTO' MODE FOR EXTERIOR LIGHTING. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL 'LCP'.

CHAIN HANG FIXTURES AT 9'-0" AFF IN THIS SPACE. COORDINATE FINAL LOCATIONS WITH PIPING, DUCTWORK, EQUIPMENT, CABLE TRAY, AND ALL TRADES.

MASTER OVERRIDE SWITCH FOR LIGHT FIXTURES IN

CORRESPONDING CORRIDOR.

. MOUNT BANK OF SWITCHES ABOVE COUNTER AS INDICATED. PROVIDE COVE LIGHTING AROUND SOFFIT PERIMETER AS INDICATED. CONTROL WITH ADJACENT CORRIDOR FIXTURES VIA

REFER TO ARCHITECTURAL ELEVATIONS FOR HEIGHT AND LOCATION OF WALL MOUNTED LUMINAIRES.

). LIGHT FIXTURES AND ASSOCIATED WIRING AND CONTROLS INDICATED BY THIS NOTE AND/OR WITHIN THIS DASHED BOUNDARY ARE INCLUDED AS PART OF THE SHELL BUILDING SCOPE.

1. COORDINATE FINAL MOUNTING LOCATIONS OF LIGHTING SWITCHES WITH STRYKER O.R. ROOM CONTROL TOUCH PANELS IN THIS ROOM. INSTALL SWITCHES IN CONSOLIDATED GROUP

MOUNT VANITY FIXTURES VERTICALLY ON EACH SIDE OF MIRROR. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. 3. MOUNT VANITY FIXTURE HORIZONTALLY CENTERED 6" ABOVE

MIRROR. REFER TO ARCHITECTURAL ELEVATIONS.

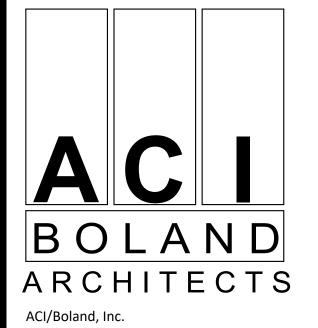
4. SUSPEND PENDANT AT 8'-0" AFF TO BOTTOM OF FIXTURE.

15. SUSPEND PENDANT AT 7'-0" AFF TO BOTTOM OF FIXTURE

 $extstyle ag{A} ag{$ ROVIDE UL924 TRANSFER DEVICE FOR LIGHTING INVERTER CIRCUIT FIXTURES. REMOTE MOUNT DEVICE IN CORRIDOR OUTSIDE OF ROOM. COORDINATE CIRCUIT REQUIREMENTS WITH INVERTER MANUFACTURER TO MEET TESTING OPERATIONS. 

**KEYPLAN** 

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JB, AP

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ASI #2 ASI #6

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COURTYARD

PRTS 6

OFFICE 4
129
9 ②

1) FIRST FLOOR SPECIAL SYSTEMS PLAN OVERALL
SCALE: 1/8" = 1'-0"

②

REFRESHMENT

⊗ ②

STERILE ASSEMBLY 171

WOMENS LOCKER ROOM 175

SCOPE

PRTS 6 AHU-2

② ②

9 @ ADMINISTRATION

A (A.2)

BY THE FIRE ALARM VENDOR. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.

PROVIDE CONNECTIONS AS REQUIRED TO POWERED DOORS TO ALLOW FREE EGRESS UPON ALARM CONDITIONS.

## KEY NOTES 🕸

MECH ROOM 195

EM ELEC ROOM 196

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7

OR 3

PROVIDE EQUIPMENT FOR A FULLY FUNCTIONING VOICE EVACUATION SYSTEM. INCLUDE AS REQUIRED: POWER SUPPLIES FOR NACS, AMPLIFIERS FOR SPEAKER CIRCUITS, MICROPHONES, ANNUNCIATORS, AND FACP & EVAC PANELS, PROVIDING SLC/IDC, BUS/DATA, AND VOICE CAPABILITIES.

(THIS SHEET)

PROVIDE CONNECTION TO AND SUPERVISION OF THE PIV AS REQUIRED. VERIFY EXACT LOCATION WITH FIRE SUPPRESSION CONTRACTOR.

PROVIDE MODULES FOR SPRINKLER RISERS - WATERFLOW, TAMPER, PRESSURE/FLOW, AND HIGH/LOW AIR SWITCHES. TAMPER & HIGH/LOW AIR SWITCHES SHALL INITIATE SUPERVISORY SIGNAL. WATERFLOW & PRESSURE/FLOW SWITCHES SHALL INITIATE ALARM SIGNAL.

PROVIDE DETECTION DEVICES, MODULES, AND RELAYS AS REQUIRED TO CONTROL SMOKE DAMPERS UPON DETECTION OF

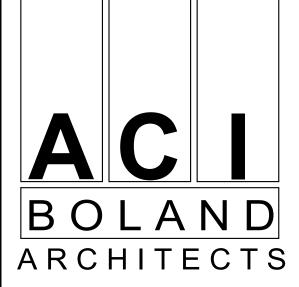
PROVIDE EXTERIOR HORN/STROBE ABOVE FDC. VERIFY FINAL LOCATION WITH FIRE SUPPRESSION CONTRACTOR. PROVIDE SUPERVISION OF POWER FROM WATERFLOW SWITCH PER NFPA

PROVIDE DUCT DETECTOR AND CONNECTIONS TO ASSOCIATED AIR HANDLING UNIT TO SHUTDOWN THE UNIT UPON DETECTION OF SMOKE AND GLOBAL SHUTDOWN OF OTHER APPLICABLE UNITS. PROVIDE APPROPRIATE REMOTE TEST SWITCH FOR TESTING OF

DO NOT PENETRATE THIS ROOM WITH CONDUIT OR CABLING WHICH SERVES OTHER AREAS.

DETECTOR. INSTALL DEVICES ABOVE ACCESSIBLE CEILING.

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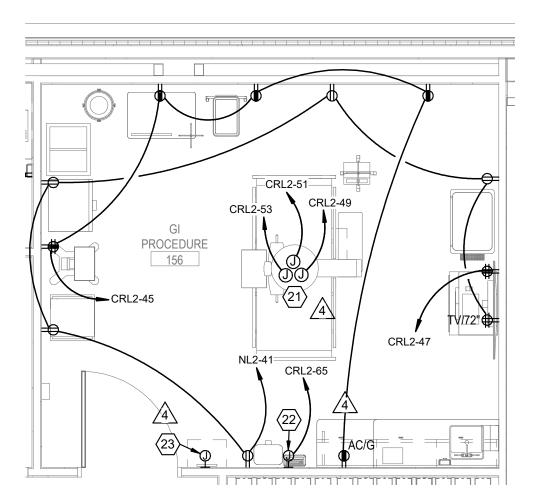
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FIRST FLOOR SPECIAL SYSTEMS PLAN - OVERALL

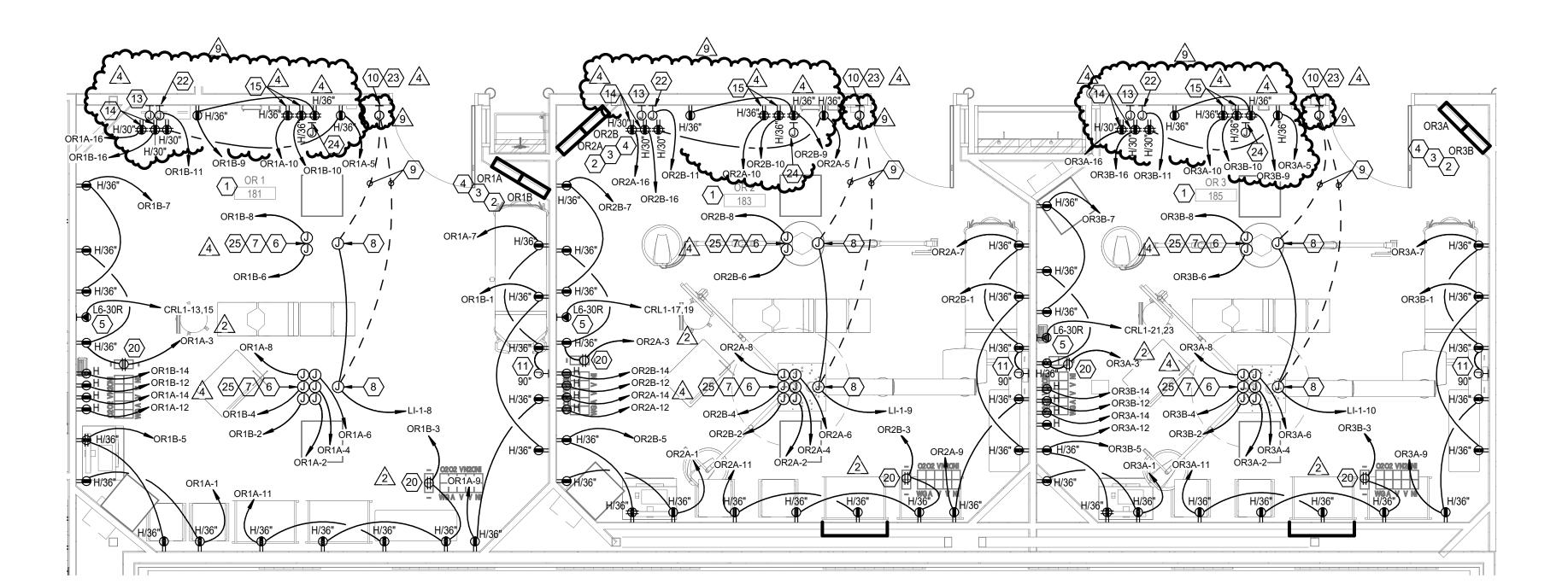
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**KEYPLAN** 

(H3) ENLARGED GI PROCEDURE 152 SCALE: 1/4" = 1'-0"



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



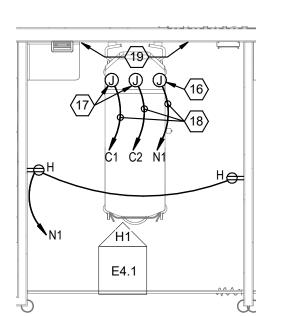
G2 ENLARGED O.R. 181, 183, 185



# **HEADWALL ELEVATION** TYPICAL RECOVERY ROOM

TYPICAL PATIENT RECOVERY ROOM RECEPTACLE CONNECTION SCHEDULE										
CIRCUIT ID DESCRIPTION BRANCH LOAD (VA) *										
N1 120V RECEPTACLES NORMAL 720										
C1	120V RECEPTACLES	CRITICAL	540							
C2 120V RECEPTACLES CRITICAL 540										

I YPICAL LOAD SERVED. SEE POWER PLANS FOR CIRCUIT NUMBERS IN EACH ROOM.



**ENLARGED TYPICAL** RECOVERY ROOM

www.branchpattern.com PROJECT NUMBER: 1201002 BranchPattern BETTER BUILT ENVIRONMENTS

GENERAL NOTES

ADDITIONAL GENERAL NOTES.

(THIS SHEET REFER TO SHEET E0.1 FOR ELECTRICAL SYMBOL LEGEND AND

INSTALLATION SHALL BE IN ACCORDANCE WITH O.R. EQUIPMENT MANUFACTURER'S (STRYKER) APPROVED SITE-SPECIFIC SHOP DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE, QUANTITY, AND LAYOUT OF MATERIALS AS REQUIRED TO COMPLY WITH THE MANUFACTURER'S REQUIREMENTS.

KEY NOTES ⊗

(THIS SHEET

CENTER, UNLESS NOTED OTHERWISE. FLUSH MOUNT DUPLEX ISOLATION POWER PANELBOARD (TWO SEPARATE ISOLATION PANELS IN A SINGLE ENCLOSURE) WITH INTEGRAL LINE ISOLATION MONITOR. BASIS OF DESIGN IS BENDER 'MIX' SERIES ISOLATION PANEL. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

RECEPTACLES IN THIS ROOM SHALL BE HOSPITAL GRADE. WALL MOUNTED RECEPTACLES IN THIS ROOM SHALL BE 3'-0" AFF TO

- COORDINATE THE EXACT DIMENSIONS OF THE WALL FRAMING WITH THE ISOLATION PANEL MANUFACTURER'S APPROVED SHOP DRAWINGS. MECHANICAL PIPING OR DUCTS SHALL NOT BE ROUTED ABOVE THESE PANELS.
- PROVIDE TWO 3/4" CONDUIT FROM EACH PANEL TO THE CEILING SPACE ABOVE FOR FUTURE USE. CAP WITH PULL STRING AND LABEL AS SPARE.
- TYPE L6-30R RECEPTACLE, FLUSH MOUNTED, FOR PORTABLE O.R. LASER UNIT. PROVIDE (2)#10. #10G. 3/4"C. VERIFY RECEPTACLE CONFIGURATION WITH ACTUAL EQUIPMENT TO BE PROVIDED

PRIOR TO ROUGH-IN, AND PROVIDE CONDUCTORS AS REQUIRED.

- CONNECTIONS TO O.R. BOOM RECEPTACLES, ELECTRIC BRAKE, MONITORS, AND 120V ACCESSORIES. PROVIDE #12 AWG CONDUCTORS IN 1/2" CONDUIT FOR EACH CIRCUIT. FOR BOOM RECEPTACLES: CONNECT TWO, NON-ADJACENT RECEPTACLES PER CIRCUIT. PROVIDE SEPARATE COMPARTMENTS WITHIN THE BOOM ASSEMBLY TO SEPARATE THE CRITICAL BRANCH WIRING THAT IS SERVED FROM SEPARATE ISOLATION PANELS. BOOM RECEPTACLES SHALL BE HOSPITAL GRADE WITH FACE PLATES IDENTIFIED WITH THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE SERVED.
- PROVIDE A #6 AWG INSULATED COPPER BONDING JUMPER FROM THE BOOM RACEWAY ENCLOSURE TO THE CONDUITS CONTAINING THE BRANCH CIRCUIT CONDUCTORS SERVING THE BOOM IN ORDER TO MAKE THE BOOM RACEWAY AN EFFECTIVE GROUND-FAULT CURRENT PATH.
- CONNECTION TO BOOM SURGICAL LIGHT. BOND SURGICAL LIGHT HOUSING TO THE METALLIC CONDUIT SERVING THE FIXTURE. CONNECT TO 120V CRITICAL BRANCH VIA CENTRAL LIGHTING INVERTER CIRCUIT. CONTRACTOR SHALL INSTALL STRYKER-PROVIDED 'UDM' JUNCTION BOX WITHIN 18 INCHES OF SUSPENSION MOUNT AND ACCESSIBLE FROM ACCESS PANEL. PROVIDE CONDUIT AS REQUIRED BY STRYKER CONDUIT SCHEDULE AND PRE-INSTALL MANUAL.
- PROVIDE 1" CONDUIT FOR SURGICAL CONTROL WIRING PROVIDED BY SURGICAL LIGHT VENDOR. MAXIMUM LENGTH IS 25'.
- 0. PROVIDE BACKBOX AS REQUIRED FOR BOOM LIGHTING WALL CONTROL PANEL. COORDINATE EXACT LOCATION OF CONTROLLER AND ADDITIONAL REQUIREMENTS WITH BOOM
- 11. CONNECTION TO ELAPSED TIME CLOCK.

12. NOT USED.

- 3. FUTURE COR LITE INTEGRATION RACK, VERIFY FINAL LOCATION WITH ARCHITECT AND STRYKER PRIOR TO ROUGH-IN. PROVIDE 12"X12"X4" FLUSH MOUNTED WALL JUNCTION BOX WITH 12"X12" U-PROFILE SPLIT PLATE WITH 6" DIAMETER PASSTHROUGH. ALL INTEGRATION CONDUITS SHALL BE TERMINATED TO THIS JUNCTION BOX. REFER TO STRYKER SITE-SPECIFIC DRAWINGS FOR EQUIPMENT LAYOUT, CONDUIT SCHEDULE, AND PRE-INSTALL
  - 1. RECEPTACLES FOR INTEGRATION RACK. INSTALL PER EQUIPMENT VENDOR REQUIREMENTS.
- . RECEPTACLES FOR FUTURE STRYKER COR LITE TOUCH PANEL. PROVIDE 4"X4" JUNCTION BOX WITH SINGLE-GANG MUD RING. J-BOX SHALL BE MOUNTED WITHIN 18" OF TOUCH PANEL LOCATION. VERIFY FINAL LOCATION WITH STRYKER AND ARCHITECT PRIOR TO ROUGH-IN. QUAD RECEPTACLES SHALL BE MOUNTED TO BE WITHIN 18" OF TOUCH PANEL LOCATION. REFER TO STRYKER SITE-SPECIFIC SHOP DRAWINGS FOR CONDUIT SCHEDULE AND PRE-INSTALL MANUAL.
- 16. CONNECTION TO PATIENT HEADWALL NORMAL BRANCH RECEPTACLES. SEE ASSOCIATED CIRCUIT SCHEDULE ON THIS
- SHEET FOR QUANTITY OF CIRCUITS. 7. CONNECTION TO PATIENT HEADWALL CRITICAL BRANCH
- RECEPTACLES. SEE ASSOCIATED CIRCUIT SCHEDULE ON THIS SHEET FOR QUANTITY OF CIRCUITS.
- 8. HOMERUN(S) TO PANELBOARD. SEE POWER PLAN (SHEET E1.1A) FOR PANELBOARD AND CIRCUIT NUMBERS.
- 9. RECEPTACLES PROVIDED ON PATIENT HEADWALL ARE NOT SHOWN ON THIS ENLARGED FLOOR PLAN. REFER TO ASSOCIATED HEADWALL ELEVATION AND SCHEDULE FOR RECEPTACLE QUANTITIES AND CIRCUIT INFORMATION. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT RECEPTACLE LOCATIONS AND DIMENSIONS.
- 0. CEILING MOUNTED DUPLEX RECEPTACLE IN OPERATING ROOM SHALL BE NEMA 5-20R STRAIGHT BLADE RECEPTACLE, EACH OUTLET ON INDIVIDUAL 6'-0" TYPE S.O. RETRACTABLE CORD DROP WITH STRAIN RELIEF AT EACH END AND STAINLESS STEEL GROMMETED COVERPLATE FLUSH IN CEILING. CONFIRM WITH USERS WHICH SIDE OF GAS OUTLETS TO INSTALL POWER.
- I. CONNECTIONS TO STRYKER SERVICE COLUMN WITH SHOULDER MOUNTED 'VPA' AND 'UDM' ARMS. PROVIDE #12 AWG CONDUCTORS IN 3/4" CONDUIT FOR EACH CIRCUIT. PROVIDE A #6 AWG INSULATED COPPER BONDING JUMPER FROM THE SERVICE COLUMN RACEWAY ENCLOSURE TO THE CONDUITS CONTAINING THE BRANCH CIRCUIT CONDUCTORS SERVING THE SERVICE COLUMN IN ORDER TO MAKE THE RACEWAY AN EFFECTIVE GROUND-FAULT CURRENT PATH. CONTRACTOR SHALL INSTALL OUTLET BOXES ON OR NEAR THE MOUNTING PLATE PER STRYKER PRE-INSTALL REQUIREMENTS. CONTRACTOR SHALL INSTALL STRYKER-PROVIDED 'UDM' JUNCTION BOX, MOUNTED WITHIN 18 INCHES OF SUSPENSION MOUNT AND ACCESSIBLE FROM ACCESS PANEL, PER STRYKER

PRE-INSTALL REQUIREMENTS.

- 2. STRYKER RECESSED 'SK' BOX. CONTRACTOR TO VERIFY FINAL LOCATION WITH ARCHITECT AND WITH STRYKER PRIOR TO ROUGH-IN. CONTRACTOR SHALL PROVIDE CONDUIT PER STRYKER CONDUIT SCHEDULE AND PRE-INSTALL MANUAL. CONTRACTOR SHALL MAKE BOTH AC AND DC CONNECTIONS WITHIN THE 'SK'
- 23. STRYKER LIGHT CONTROL BOX. CONTRACTOR SHALL PROVIDE CONDUIT PER STRYKER CONDUIT SCHEDULE AND PRE-INSTALL MANUAL. CONTRACTOR SHALL PROVIDE STANDARD 4X4 JUNCTION BOX MOUNTED DIRECTLY BEHIND THE STRYKER-PROVIDED WALL CONTROL BOX, MOUNTED 53 INCHES AFF. ENSURE FRONT OF STRYKER PROVIDED BACKBOX IS FLUSH WITH THE WALL.
- 24. FUTURE 4-IN-1 WALL PLATE, PROVIDE RACO 256 JUNCTION BOX WITH RACO 782 MUD RING, MOUNTED 18" AFF. REFER TO STRYKER SITE-SPECIFIC SHOP DRAWINGS FOR CONDUIT SCHEDULE AND PRE-INSTALL MANUAL.
- 25. ELECTRICAL CIRCUITS SERVING THE STRYKER BOOM SHALL BE CONNECTED TO THE S-SERIES JUNCTION BOX. TWO SEPARATE, STRYKER-SUPPLIED JUNCTION BOXES ('TC' AND 'UDM') SHALL BE INSTALLED BY THE CONTRACTOR AND BE WITHIN 18 INCHES OF THE BOOM MOUNT AND ACCESSIBLE FROM THE ACCESS PANEL. REFER TO THE STRYKER SITE-SPECIFIC SHOP DRAWINGS FOR THE CONDUIT SCHEDULE AND PRE-INSTALL MANUAL.

TYPICAL ELEVATION DEVICE LEGEND

		IN DEVIGE LEGEN
DEVICE SYMBOL	EQUIVALENT PLAN SYMBOL AS DEFINED ON LEGEND SHEET	DESCRIPTION
a n N#	φ	HOSPITAL GRADE NORMAL DUPL RECEPTACLE. ALPHA-NUMERIC SUBSCRIPT INDICATES CIRCUIT II
(a) C#	Ψ	HOSPITAL GRADE CRITICAL DUPL RECEPTACLE. ALPHA-NUMERIC SUBSCRIPT INDICATES CIRCUIT II

CONSTRUCTION

BOLAND ARCHITECTS

Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 Licensee's Certificate of Authority Number:

ACI/Boland, Inc.

Missouri: #000958

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2/8/2023 3-22030 Job Number Drawn By Checked By

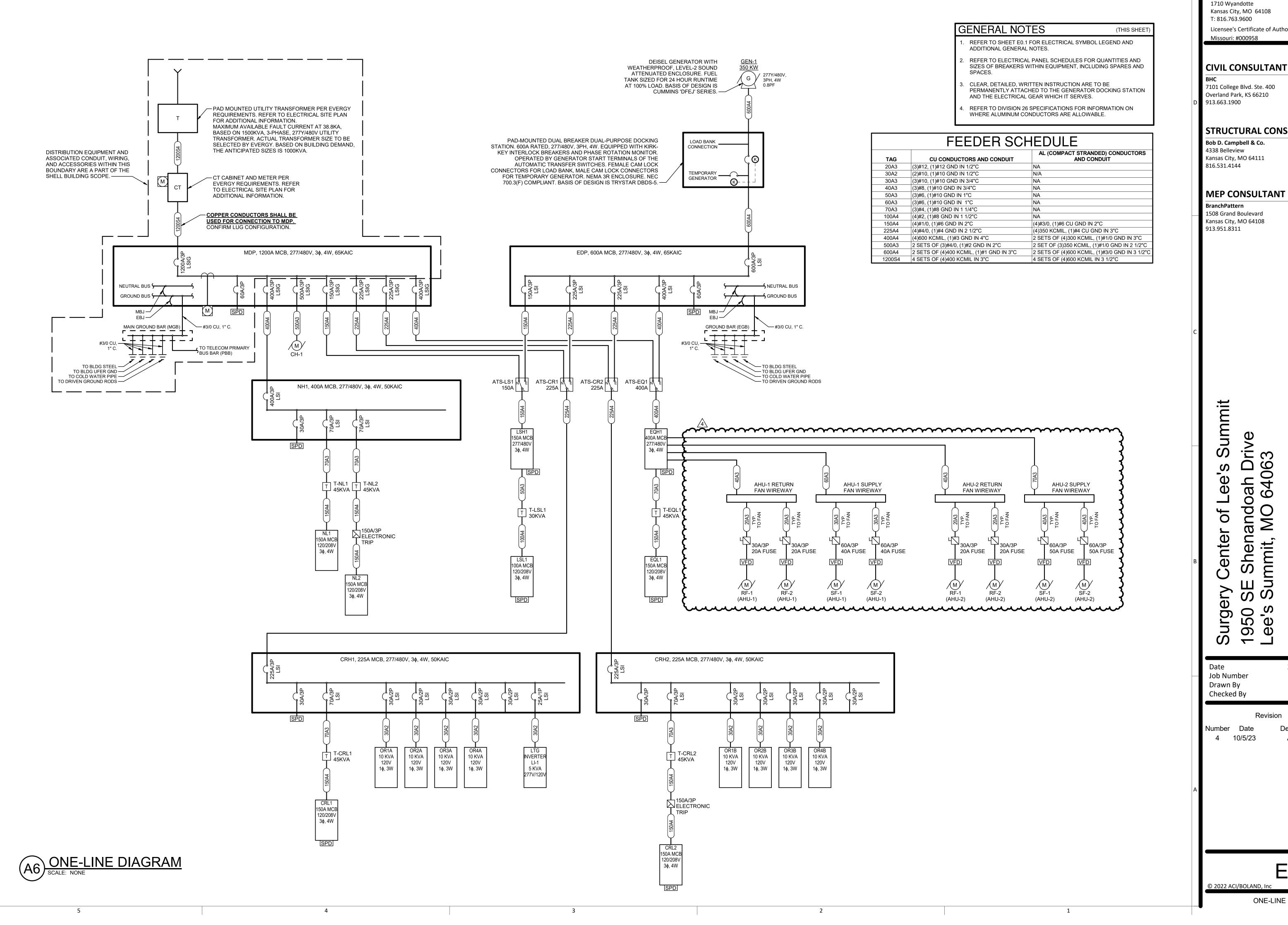
ADDENDUM #2

ASI#1 10/5/23 ASI#4 2/7/24 ASI#6 9 4/29/24

2022 ACI/BOLAND, Inc ENLARGED ELECTRICAL PLANS

www.branchpattern.com PROJECT NUMBER: 1201002 BranchPattern PROJECT NUMBER: 1201002
BETTER BUILT ENVIRONMENTS

				ΑΙ	UTOMATIO	CTRANS	SFER SV	VITCH	SCHEDU	ILE			
ATS TAG	BRANCH	RATING	NUMBER OF POLES	VOLTAGE	SHORT CIRCUIT RATING (KA)	TRANSITION TYPE	BYPASS/ ISOLATION	LOAD PRIORITY	ENGINE START TIME DELAY	TRANSFER TO EMERGENCY TIME DELAY		LOAD SHED FEATURE	REMARKS
ATS-LS1	LIFE SAFETY	150A	4	480V	50	OPEN	NO	1	1 S	0 S	1800 S	NO	
ATS-CR1	CRITICAL	225A	4	480V	50	OPEN	NO	1	1 S	0 S	1800 S	NO	
ATS-CR2	CRITICAL	225A	4	480V	50	OPEN	NO	1	1 S	0 S	1800 S	NO	
ATS-EQ1	EQUIPMENT	400A	4	480V	50	OPEN	NO	2.1	1 S	10 S	1500 S	YES	



CONSTRUCTION



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BranchPattern 1508 Grand Boulevard Kansas City, MO 64108

> Summit ee 19 Q Of enter surge 950 ee's

2/8/2023 3-22030

JB, AP

Number Date 4 10/5/23 ASI #1

Job Number

Checked By

E6.1 © 2022 ACI/BOLAND, Inc

ONE-LINE DIAGRAM

COMBINATION STARTER AND SAFETY SWITCH

CB CIRCUIT BREAKER

MECH/ELEC EQUIPMENT COORDINATION SCHEDULE **ABBREVIATIONS** MC MECHANICAL CONTRACTOR N1 NEMA 1

S SWITCH SF SWITCH WITH FUSTAT TAG

DESCRIPTION

2X4 RECESSED LED LENSED TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER

FABRICATION, WITH DIFFUSE ACRYLIC LENS. 0-10V DIMMING DRIVER.

TAG  AAP-1/2  AAP-3/4  AAP-5  AAP-6  AAP-7  AAP-8  AC-1  AHU-1(R)  AHU-1(S)	CP CONTROL PANEL EC ELECTICAL CONT I INTEGRAL WITH E  EQUIPMENT  DESCRIPTION  MED GAS ALARM PANEL MED GAS ALARM PANEL	EQUIPMENT  NAMEPLATE				N3R NEMA 3R N4X NEMA 4X NF NON-FUSED			SS VFD RCPT	SAFETY VARIABL RECEPTA	E FREQUENC	Y DRIVE		
AAP-1/2 AAP-3/4 AAP-5 AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)	EQUIPMENT  DESCRIPTION  MED GAS ALARM PANEL	EQUIPMENT  NAMEPLATE												
AAP-1/2 AAP-3/4 AAP-5 AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)	DESCRIPTION  MED GAS ALARM PANEL													
AAP-1/2 AAP-3/4 AAP-5 AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)	DESCRIPTION  MED GAS ALARM PANEL		1			ELECTRICAL SYSTEM			DISCO	NNECT		CO	NTROLLER	<u> </u>
AAP-3/4 AAP-5 AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)	MED GAS ALARM PANEL		VOLTAGE	PH	MINIMUM	FEEDER OR BRANCH CIRCUIT	PANEL - CKT	FURNISHED BY /	SIZE		ENCLOSURE	FURNISHED BY /	TYPE	ENCLOSURE REMARK
AAP-3/4 AAP-5 AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)		LOAD 2.0 FLA	120 V	1	kAIC 5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 5	EC/EC	20A	СВ		INSTALLED BY		
AAP-5 AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)	IVIED OAG ALARWIT AINEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2 C	LSL1 - 7	EC/EC	20A	CB	<u> </u>			
AAP-6 AAP-7 AAP-8 AC-1 AHU-1(R)	MED GAS ALARM PANEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 9	EC/EC	20A	CB		_		
AAP-7 AAP-8 AC-1 AHU-1(R)	MED GAS ALARM PANEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 11	EC/EC	20A	CB		_		
AAP-8 AC-1 AHU-1(R)	MED GAS ALARM PANEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 13	EC/EC	20A	CB		_		
AC-1 AHU-1(R)	MED GAS ALARM PANEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 15	EC/EC	20A	CB	_	_		
AHU-1(R)	AIR CURTAIN	1/2 hp	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	NL1 - 20	EC/EC	20A	_ S _	N1	MC/MC		
` '	AIR HANDLING UNIT RETURN FANS	24.8 MCA	480 V	3	10	(3)#8, (1)#10G IN 3/4"C	EQH1 - 21,23,25	EC/EC	ىنى	لىنىل	N3R	MC/MC	VFD	A 3
AU0-1(2)	AIR HANDLING UNIT SUPPLY FANS	47.3 MCA	480 V	3	10	(3)#6, (1)#10G IN 1"C	EQH1 - 13,15,17	EC/EC 4	.45 .4		N3R	MC/MC	VFD	4 3 3 4
AHU-1(U)	AIR HANDLING UNIT UV LIGHTS	3.3 MCA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 36	EC/EC	20A	S	N3R	MC/MC		
AHU-1(X)	AIR HANDLING UNIT ACCESSORIES	13.3 MCA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 38	EC/EC	20A	S	N3R	MC/MC		
AHU-2(C)	AIR HANDLING UNIT CDQ MOTOR	0.4 MCA	480 V	3	10	(3)#12, (1)#12G IN 3/4"C	EQH1 - 30,32,34	EC/EC	_30A_	_ ss _	N3R	MC/MC	VFD	
AHU-2(R)	AIR HANDLING UNIT RETURN FANS	24.8 MCA	480 V	3	10	(3)#8, (1)#10G IN 3/4"C	EQH1 - 22,24,26	EC/EC A	ىنى	لىتىل	N3R	MC/MC	VFD	V 3.
AHU-2(S)	AIR HANDLING UNIT SUPPLY FANS	47.3 MCA	480 V	3	10	(3)#6, (1)#10G IN 1"C	EQH1 - 14,16,18	EC/EC 4	~~~	الم عد عد	N3R	MC/MC	VFD	4 3 3 4
AHU-2(U)	AIR HANDLING UNIT UV LIGHTS	3.3 MCA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 40	EC/EC	20A	S	N3R	MC/MC		
AHU-2(X)	AIR HANDLING UNIT ACCESSORIES	13.3 MCA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 42	EC/EC	20A	S	N3R	MC/MC		
B-1	HOT WATER BOILER	4.5 FLA	208 V	3	5	(3)#12, (1)#12G IN 3/4"C	EQL1 - 1,3,5	EC/EC	30A	SS	N1	MC/MC		
B-2	HOT WATER BOILER	4.5 FLA	208 V	3	5	(3)#12, (1)#12G IN 3/4"C	EQL1 - 2,4,6	EC/EC	30A	SS	N1	MC/MC		
CH-1	AIR-COOLED CHILLER	399 MCA	480 V	3	65	2 SETS OF (3)#300 KCMIL, (1)#1G IN 2-1/2"C	MDP - 19,21,23	EC/EC	600A	SS	N3R	MC/MC	VFD	
CP-1	RECIRCULATION PUMP	2 hp	208 V	3	5	(3)#12, (1)#12G IN 3/4"C	EQL1 - 15,17,19	EC/EC	30A	SS	N1	MC/MC		
CU-1	SPLIT SYSTEM HEAT PUMP	25.0 MCA	208 V	1	5	(2)#10, (1)#10G IN 3/4"C	EQL1 - 20,22	EC/EC	30A	SS	N3R	MC/MC		
CU-2	SPLIT SYSTEM HEAT PUMP	25.0 MCA	208 V	1	5	(2)#10, (1)#10G IN 3/4"C	NL1 - 41,43	EC/EC	30A	SS	N3R	MC/MC		
CU-3	SPLIT SYSTEM HEAT PUMP	25.0 MCA	208 V	1	5	(2)#10, (1)#10G IN 3/4"C	NL1 - 45,47	EC/EC	30A	SS	N3R	MC/MC		
CU-4	SPLIT SYSTEM HEAT PUMP	25.0 MCA	208 V	1	5	(2)#10, (1)#10G IN 3/4"C	NL1 - 49,51	EC/EC	30A	SS	N3R	MC/MC		
CU-5	SPLIT SYSTEM HEAT PUMP	25.0 MCA	208 V	1	5	(2)#10, (1)#10G IN 3/4"C	NL1 - 53,55	EC/EC	30A	SS	N3R	MC/MC		
CUH-1	CABINET UNIT HEATER	5.8 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	NL2 - 57	EC/EC	20A	S	N1	MC/MC		
CUH-2	CABINET UNIT HEATER	5.8 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	NL2 - 59	EC/EC	20A	S	N1	MC/MC		
DI-1	DEIONIZED WATER GENERATOR	-	120 V	1				EC/EC	-	RCPT	-	-		2
EF-1	EXHAUST FAN	1 hp	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 31	EC/EC	20A	S	N3R	MC/MC		
EF-2	EXHAUST FAN	1 hp	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 33	EC/EC	20A	S	N3R	MC/MC		
EF-3	EXHAUST FAN	1 hp	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 35	EC/EC	20A	S	N3R	MC/MC		
EF-4	EXHAUST FAN	1 hp	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 37	EC/EC	20A	S	N3R	MC/MC		
EF-5	EXHAUST FAN	1 hp	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 39	EC/EC	20A	S	N3R	MC/MC		
EUH-1	ELECTRIC UNIT HEATER	24.0 FLA	208 V	1	5	(2)#10, (1)#10G IN 3/4"C	EQL1 - 16,18	EC/EC	30A	SS	N1	MC/MC		
GT-1	GLYCOL TANK	-	120 V	1				EC/EC	-	RCPT	-	-		2
GV	GAS SHUT-OFF VALVE	0.5 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 27	EC/EC	20A	S	N1	MC/MC		
GWH-1	FUEL FIRED WATER HEATER	3.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 21	EC/EC	20A	S	N1	MC/MC		
GWH-2	FUEL FIRED WATER HEATER	3.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 23	EC/EC	20A	S	N1	MC/MC		
HUM-1	ELECTRIC STEAM HUMIDIFIER	78.5 FLA	480 V	3	18	(3)#2, (1)#8G IN 1-1/4"C	NH1 - 1,3,5	EC/EC	100A	SS	N3R	MC/MC		
HUM-2	ELECTRIC STEAM HUMIDIFIER	78.5 FLA	480 V	3	18	(3)#2, (1)#8G IN 1-1/4"C	NH1 - 2,4,6	EC/EC	100A	SS	N3R	MC/MC		
HWP-1	HEATING HOT WATER PUMP	7.5 hp	480 V	3	5	(3)#12, (1)#12G IN 3/4"C	EQH1 - 38,40,42	EC/EC	30A	VFD	N1	MC/MC		
HWP-2	HEATING HOT WATER PUMP	7.5 hp	480 V	3	5	(3)#12, (1)#12G IN 3/4"C	EQH1 - 44,46,48	EC/EC	30A	VFD	N1	MC/MC		
MAC-1	MEDICAL AIR COMPRESSOR	6.0 FLA	480 V	3	5	(3)#12, (1)#12G IN 3/4"C	EQH1 - 7,9,11	EC/EC	30A	SS	N1	MC/MC		
MV-1	MIXING VALVE	0.5 FLA FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 43	EC/EC	20A	S	N1	MC/MC		
MVP-1	MEDICAL VACUUM PUMP	25.0 FLA	480 V	3	10	(3)#8, (1)#10G IN 3/4"C	EQH1 - 8,10,12	EC/EC	60A	SS	N1	MC/MC		
PAC-1	INSTRUMENT AIR COMPRESSOR	27.0 FLA	480 V	3	10	(3)#8, (1)#10G IN 3/4"C	EQH1 - 2,4,6	EC/EC	60A	SS	N1	MC/MC		
PAP-1	MED GAS ALARM PANEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 1	EC/EC	20A	СВ	-	-		
SAP-1	MED GAS ALARM PANEL	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	LSL1 - 3	EC/EC	20A	СВ	-	-		
SS-1	SPLIT SYSTEM EVAPORATOR	1.0 MCA	208 V	1	5	(2)#12, (1)#12G IN 1"C								1
SS-2	SPLIT SYSTEM EVAPORATOR	1.0 MCA	208 V	1	5	(2)#12, (1)#12G IN 1"C								1
SS-3	SPLIT SYSTEM EVAPORATOR	1.0 MCA	208 V	1	5	(2)#12, (1)#12G IN 1"C								1
SS-4	SPLIT SYSTEM EVAPORATOR	1.0 MCA	208 V	1	5	(2)#12, (1)#12G IN 1"C								1
SS-5	SPLIT SYSTEM EVAPORATOR	1.0 MCA	208 V	1	5	(2)#12, (1)#12G IN 1"C								1
TP-2 (169)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 59	EC/EC	20A	S	N1	MC/MC		
TP-2 (171)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 57	EC/EC	20A	S	N1	MC/MC		
TP-2 (173)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 57	EC/EC	20A	S	N1	MC/MC		
TP-2 (175)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 59	EC/EC	20A	S	N1	MC/MC		
TP-2 (177)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 59	EC/EC	20A	S	N1	MC/MC		
TP-2 (182)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 59	EC/EC	20A	S	N1	MC/MC		
TP-2 (195)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 57	EC/EC	20A	S	N1	MC/MC		
TP-2 (198)	TRAP PRIMER	2.0 FLA	120 V	1	5	(2)#12, (1)#12G IN 1/2"C	EQL1 - 57	EC/EC	20A	S	N1	MC/MC		
WS-1	WATER SOFTENER	-	120 V	1				EC/EC	-	RCPT	-	-		2

a. VERIFY/COORDINATE RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS REQUIRED FOR SPECIFIED UNIT, DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED

b. FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION.

c. DISCONNECTS SHALL BE FUSIBLE UNLESS NOTED OTHERWISE.

d. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED. e. LOCATE DISCONNECT AT EQUIPMENT PER NEC UNLESS NOTED OTHERWISE.

f. EQUIPMENT IDs THAT END IN ".X" INDICATE THERE ARE MULTIPLE UNITS THAT ARE IDENTICAL AND PROVIDED ON THE PROJECT. SEE PLANS FOR THE UNIQUE SEQUENTIAL DESIGNATION.

1. UNIT POWERED THROUGH ASSOCIATED CONDENSING UNIT.

2 REFER TO POWER PLANS FOR RECEPTACLE(S) AND CIRCUIT(S) WHICH SERVE THIS UNIT 4 (3. REFER TO ONE-LINE DIAGRAM FOR CONNECTIONS TO DISCONNECTS, VFDS, AND FANS.

TERMINAL BOX SCHEDULE									
Equipment Name	Panel	Circuit Number							
TB-R-01	EQL1	54							
TB-R-02	EQL1	54							
TB-R-03	EQL1	54							
TB-R-04	EQL1	54							
TB-2-01	EQL1	56							
TB-2-02	EQL1	56							
TB-2-03	EQL1	56							
TB-2-04	EQL1	56							
TB-2-05	EQL1	56							
TB-2-06	EQL1	56							
TB-2-07	EQL1	56							
TB-2-08	EQL1	56							
TB-2-09	EQL1	56							
TB-2-10	EQL1	56							

**GENERAL NOTES:** 

a. CONNECT 120V TERMINAL BOX

CONTROLS VENDOR.

CONTROL TRANSFORMER AND LOCAL DISCONNECT AS REQUIRED. DO NOT EXCEED TEN (10) TERMINAL BOXES PER CIRCUIT. COORDINATE WITH MECHANICAL CONTRACTOR AND

Equipment Name	Panel	Circuit Numbe
TB-1-01	EQL1	58
	1-3	
TB-1-02 TB-1-03	EQL1	58
		58
TB-1-04	EQL1	58
TB-1-05	EQL1	58
TB-1-06	EQL1	58
TB-1-07	EQL1	58
TB-1-08	EQL1	58
TB-1-09	EQL1	58
TB-1-10	EQL1	58
TB-1-11	EQL1	60
TB-1-12	EQL1	60
TB-1-13	EQL1	60
TB-1-14	EQL1	60
TB-1-15	EQL1	60
TB-1-16	EQL1	60
TB-1-17	EQL1	60
TB-1-18	EQL1	60
TB-1-19	EQL1	60
TB-1-20	EQL1	60

	FABRICATION, WITH DIFFUSE ACRYLIC LENS. 0-10V DIMMING DRIVER.	METALUX)								
A2	2X2 RECESSED LED LENSED TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION, WITH DIFFUSE ACRYLIC LENS. 0-10V DIMMING DRIVER.	LITHONIA (COLUMBIA, METALUX)	2GTL-2-20L-GZ10-LP840	LED	2200 lm	4000K	80	19 VA	277 V	
A3	2X4 RECESSED LED LENSED TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION, WITH DIFFUSE ACRYLIC LENS. 0-10V DIMMING DRIVER.	LITHONIA (COLUMBIA, METALUX)	2GTL-4-48L-GZ10-LP840	LED	4800 lm	4000K	80	36 VA	277 V	
A3E	2X4 RECESSED LED LENSED TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION, WITH DIFFUSE ACRYLIC LENS. 0-10V DIMMING DRIVER. 90-MINUTE EMERGENCY BATTERY BACKUP.	LITHONIA (COLUMBIA, METALUX)	2GTL-4-48L-GZ10-LP840-EL14L	LED	4800 lm	4000K	80	36 VA	277 V	
A5	2X4 RECESSED LED LENSED TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION. WITH DIFFUSE ACRYLIC LENS. 0-10V DIMMING DRIVER.	LITHONIA (COLUMBIA, METALUX)	2GTL-4-72L-GZ10-LP840	LED	7200 lm	4000K	80	54 VA	277 V	
B1	2X4 RECESSED HIGH EFFICIENCY LED VOLUMETRIC TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION, WITH CENTER BASKET, DIFFUSE, SMOOTH ACRYLIC LENS. 0-10V DIMMING DRIVER.	LITHONIA (COLUMBIA, METALUX)	2BLT4-30LHE-ADSM-EZ1-LP840	LED	3000 lm	4000K	80	23 VA	277 V	
B2	2X4 RECESSED HIGH EFFICIENCY LED VOLUMETRIC TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION, WITH CENTER BASKET, DIFFUSE, SMOOTH ACRYLIC LENS. 0-10V DIMMING DRIVER.	LITHONIA (COLUMBIA, METALUX)	2BLT4-40LHE-ADSM-EZ1-LP840	LED	4000 lm	4000K	80	30 VA	277 V	
В3	2X4 RECESSED HIGH EFFICIENCY LED VOLUMETRIC TROFFER. COLD-ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION, WITH CENTER BASKET, DIFFUSE, SMOOTH ACRYLIC LENS. 0-10V DIMMING DRIVER.	LITHONIA (COLUMBIA, METALUX)	2BLT4-48LHE-ADSM-EZ1-LP840	LED	4800 lm	4000K	80	35 VA	277 V	
C1	LED RIBBON COVE LIGHT WITH ALUMINUM CHANNEL WITH FLAT, DIFFUSE FROSTED LENS. DIRECT INPUT 277V AC. PROVIDE LENGTHS AS REQUIRED AS SHOWN ON LIGHTING PLANS. PROVIDE POWER FEEDS, JUMPERS, REMOTE DRIVERS, AND ACCESSORIES AS REQUIRED. 1.5 W/FT, 200 LUMEN/FT.	ACOLYTE	RB-90-SWS220-1.540 & CHAS3-F-SV	LED		4000K	90		277 V	
D1	4" DIAMETER RECESSED LED DOWNLIGHT. GALVANIZED STEEL HOUSING WITH ADJUSTABLE MOUNTING BARS, SERVICEABLE FROM BELOW CEILING. 0-10V DIMMING DRIVER.	GOTHAM (PRESCOLITE, PORTFOLIO)	EVO4-40/10-AR-WD-LSS-MVOLT-EZ1	LED	1000 lm	4000K	85	9 VA	277 V	
D4	4" DIAMETER RECESSED LED DOWNLIGHT. GALVANIZED STEEL HOUSING WITH ADJUSTABLE MOUNTING BARS, SERVICEABLE FROM BELOW CEILING. NARROW BEAM DISTRIBUTION. 0-10V DIMMING DRIVER.	GOTHAM (PRESCOLITE, PORTFOLIO)	EVO4-40/15-AR-ND-LSS-MVOLT-EZ1	LED	1500 lm	4000K	85	15 VA	277 V	
D5	6" DIAMETER RECESSED LED DOWNLIGHT. GALVANIZED STEEL HOUSING WITH ADJUSTABLE MOUNTING BARS, SERVICEABLE FROM BELOW CEILING. 0-10V DIMMING DRIVER.	GOTHAM (PRESCOLITE, PORTFOLIO)	EVO6-40/20-AR-WD-LSS-MVOLT-GZ10	LED	2000 lm	4000K	85	20 VA	277 V	
D8	4" DIAMETER RECESSED LED SHOWER-RATED DOWNLIGHT. NON-CONDUCTIVE DEAD FRONT TRIM. IP66 RATED ROOM SIDE, WET LOCATION LISTED. GALVANIZED STEEL HOUSING WITH ADJUSTABLE MOUNTING BARS, SERVICEABLE FROM BELOW CEILING. 0-10V DIMMING DRIVER.	GOTHAM	EVO4SH-40/15-DFF-SMO-MVOLT-EZ10	LED	1300 lm	4000K	85	14 VA	277 V	
D9	6" SQUARE RECESSED LED DOWNLIGHT. GALVANIZED STEEL HOUSING WITH ADJUSTABLE MOUNTING BARS, SERVICEABLE FROM BELOW CEILING. 0-10V DIMMING DRIVER.	GOTHAM (PRESCOLITE, PORTFOLIO)	EVO6SQ-40/20-AR-FL-LSS-MVOLT-EZ1	LED	2000 lm	4000K	85	20 VA	277 V	
D10	6" SQUARE RECESSED LED DOWNLIGHT. GALVANIZED STEEL HOUSING WITH ADJUSTABLE MOUNTING BARS, SERVICEABLE FROM BELOW CEILING. 0-10V DIMMING DRIVER.	GOTHAM (PRESCOLITE, PORTFOLIO)	EVO6SQ-40/07-AR-FL-LSS-MVOLT-EZ1	LED	750 lm	4000K	85	8 VA	277 V	
DA2	4.5" SQUARE RECESSED LED DOWNLIGHT FOR USE WITH 6" ARMSTRONG CEILING SYSTEM. CONFIRM CEILING SYSTEM TYPE WITH ARCHITECT PRIOR TO ORDERING FIXTURES. CONFIRM FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.	USAI	B4SDTZ-24C3-40KS-90-S-GW-GW-NCSM-UNV-D6E	LED	2000 lm	4000K	80	24 VA	277 V	
DA3	3" SQUARE RECESSED LED DOWNLIGHT FOR USE WITH HORIZONTAL WOOD SLAT ARMSTRONG CEILING SYSTEM. CONFIRM CEILING SYSTEM TYPE WITH ARCHITECT PRIOR TO ORDERING FIXTURES. CONFIRM FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.	USAI	B3SCM-20X3-40KS-50-S-WH-BL-NC1-SB-UNV-D6E	LED	1400 lm	4000K	80	20 VA	277 V	
H1	48" LED INDUSTRIAL STRIP FIXTURE. COLD-ROLLED STEEL HOUSING WITH SNAP-ON FROSTED, DIFFUSE LENS.	LITHONIA (COLUMBIA, METALUX)	ZL1N-L48-5000LM-FST-MVOLT-40K-80CRI-WH	LED	5000 lm	4000K	80	34 VA	277 V	
H1E	48" LED INDUSTRIAL STRIP FIXTURE. COLD-ROLLED STEEL HOUSING WITH SNAP-ON FROSTED, DIFFUSE LENS. 90-MINUTE EMERGENCY BATTERY BACKUP.	LITHONIA (COLUMBIA, METALUX)	ZL1N-L48-5000LM-FST-MVOLT-40K-80CRI-E10WLCP-WH	LED	5000 lm	4000K	80	34 VA	277 V	
M1	2X4 RECESSED LED SURGICAL TROFFER. ANTIMICROBIAL FINISH. INSET-STYLE DOORFRAME WITH CLOSED-CELL SILICONE GASKET. SYMMETRIC/ASYMMETRIC DIFFUSE ACRYLIC LENS. UL WET LOCATION LISTED, IP65 RATED. 0-10V DIMMING DRIVER.	KENALL (KURTZON, HEALTHCARE LIGHTING)	M4SEDI-24-100L-40K9-DCC-277-2F-2H-ASYM	LED	12000 lm	4000K	90	114 VA	277 V	
M2	1X4 RECESSED LED SURGICAL TROFFER. ANTIMICROBIAL FINISH. INSET-STYLE DOORFRAME WITH CLOSED-CELL SILICONE GASKET. SYMMETRIC DIFFUSE ACRYLIC LENS. UL WET LOCATION LISTED, IP65 RATED. 0-10V DIMMING DRIVER WITH DIM-TO-DARK CAPABILITY.	KENALL (KURTZON, HEALTHCARE LIGHTING)	M4SEDI-14-76L-40K9-DCC-277-2F-2H-SYM	LED	7600 lm	4000K	90	85 VA	277 V	
P3	DECORATIVE LED PENDANT. 13.5" DIAMETER GLOBE GLASS SHADE. SMOKE FINISH GLASS WITH SATIN NICKEL HARDWARE. INTEGRAL DIM-TO-WARM LED. 6' FIELD-CUTTABLE CABLE.	TECH LIGHTING	700-TD-PLNP-K-S-LEDWD	LED	680 lm	3000K	90	10 VA	120 V	1
P4	DECORATIVE LED PENDANT. 32" DIAMETER, EXTRUDED AND ROLLED RECTANGULAR ALUMINUM LOOP WITH FLEXIBLE SILICON DIFFUSER.	KUZCO LIGHTING	PD11132-BK	LED	4500 lm	3000K	90	60 VA	120 V	
SW1	EXTERIOR WALL MOUNTED LED SCONCE. DIE-CAST ALUMINUM HOUSING WITH VISUAL COMFORT, WIDE THROW OPTICS. POWDER COAT FINISH, IP66 RATED, WET LOCATION LISTED. FULLY CUTOFF, ZERO UPLIGHT. ARCHITECT TO CONFIRM FINISH PRIOR TO ORDERING.	LITHONIA (HUBBELL)	WDGE2-P5-40K-80CRI-VW-MVOLT-DDBXD	LED	6000 lm	4000K	80	48 VA	277 V	
SW1E	EXTERIOR WALL MOUNTED LED SCONCE. DIE-CAST ALUMINUM HOUSING WITH VISUAL COMFORT, WIDE THROW OPTICS. POWDER COAT FINISH, IP66 RATED, WET LOCATION LISTED. FULLY CUTOFF, ZERO UPLIGHT. 90-MINUTE EMERGENCY BATTERY BACKUP. ARCHITECT TO CONFIRM FINISH PRIOR TO ORDERING.	LITHONIA (HUBBELL)	WDGE2-P5-40K-80CRI-VW-MVOLT-E20WH-DDBXD	LED	6000 lm	4000K	80	48 VA	277 V	
UC1	18" LENGTH, LED UNDERCABINET FIXTURE. EXTRUDED ALUMINUM HOUSING WITH ANTIMICROBIAL FINISH. EXTRUDED, FROSTED ACRYLIC LENS. CLOSED-CELL EPDM GASKET SEALS BETWEEN LENS AND END CAPS.	KENALL (FAIL-SAFE)	MAUCLED-I-MW-11L40K-18-277	LED	1200 lm	4000K	80	15 VA	277 V	
UC2	24" LENGTH, LED UNDERCABINET FIXTURE. EXTRUDED ALUMINUM HOUSING WITH ANTIMICROBIAL FINISH. EXTRUDED, FROSTED ACRYLIC LENS. CLOSED-CELL EPDM GASKET SEALS BETWEEN LENS AND END CAPS.	KENALL (FAIL-SAFE)	MAUCLED-I-MW-11L40K-24-277	LED	1300 lm	4000K	80	15 VA	277 V	
W1	48" WALL MOUNTED LED PATIENT HEADWALL FIXTURE. DIRECT/INDIRECT DISTRIBUTION, AMBIENT AND READING MODES. SEPARATELY CONTROLLED UP/DOWN LED COMPARTMENTS. ALUMINUM HOUSING WITH ANTIMICROBIAL FINISH, AND UV-STABILIZED FROSTED ACRYLIC LENS. 0-10V DIMMING DRIVER.	KENALL (FAIL-SAFE)	MPWUD-48-MW-1/1-45L-40K8-DIM1-DV	LED	11000 lm	4000K	82	93 VA	277 V	
W9	CONTEMPORARY LED VANITY LIGHT. BRONZE FINISH WITH RECTANGULAR WHITE GLASS SHADE.	TECH LIGHTING	700BCMET-Z-930-277	LED	1150 lm	3000K	90	25 VA	277 V	1
X1	UNIVERSAL MOUNT LED EDGE-LIT EXIT SIGN. MINIMUM 90-MINUTE BATTERY BACKUP. ACRYLIC PANELS WITH GREEN LETTERING. UL924 LISTED. REFERENCE LIGHTING PLANS FOR LOCATIONS, NUMBER OF FACES, AND DIRECTIONAL CHEVRONS.	LITHONIA (DUAL-LITE, SURE-LITES)	EDG/EDGR-1/2-G/GMR-EL	LED				3 VA	277 V	2

LUMINAIRE SCHEDULE

CATALOG NUMBER OR APPROVED EQUIVALENT

2GTL-4-30L-GZ10-LP840

MANUFACTURER OR APPROVED EQUIVALENT

LITHONIA (COLUMBIA,

METÀLUX)

				.IGHTII	NG C	ONT	ROL P	ANEL	SCHE	DULE
LCP NAME	LCP RELAY NUMBER	LIGHTING CONTROL	MANUAL CONTROL	OCCUPANCY SENSOR	VACANCY SENSOR	DAYLIGHT SENSOR	TIMECLOCK/ PHOTOCELL		SENSOR TIMEOUT (MIN.)	PROGRAMMING NOTES
LCP	1	WAITING 100, VESTIBULE 101, VESTIBULE 107, HALL 110	NONE	Yes	No	Yes	No	CEILING	20	BUILDING SCHEDULE ON/OFF, ON/OFF OVERRIDE WITH 24 HR SWEEPS & FLICKER WARNING.
LCP	2	HALL 120, HALL 130, HALL 140, HALL 160	SWITCH	Yes	No	No	No	CEILING	20	BUILDING SCHEDULE ON/OFF, ON/OFF OVERRIDE WITH 24 HR SWEEPS & FLICKER WARNING.
LCP	3	HALL 150	SWITCH	Yes	No	No	No	CEILING	20	BUILDING SCHEDULE ON/OFF, ON/OFF OVERRIDE WITH 24 HR SWEEPS & FLICKER WARNING.
LCP	4	HALL 168, VESTIBULE 190	SWITCH	Yes	No	No	No	CEILING	20	BUILDING SCHEDULE ON/OFF, ON/OFF OVERRIDE WITH 24 HR SWEEPS & FLICKER WARNING.
LCP	5	HALL 170, HALL 180	SWITCH	Yes	No	No	No	CEILING	20	BUILDING SCHEDULE ON/OFF, ON/OFF OVERRIDE WITH 24 HR SWEEPS & FLICKER WARNING.
LCP	6	EXTERIOR: MAIN ENTRY CANOPY	SWITCH	No	No	No	Yes	N/A		
LCP	7	EXTERIOR: COURTYARD, BUILDING MOUNTED LIGHTING	SWITCH	No	No	No	Yes	N/A		
LCP	8	EXTERIOR: MECHANICAL YARD	SWITCH	No	No	No	Yes	N/A		
LCP	9	EXTERIOR: SITE LIGHT POLES - NORTH	SWITCH	No	No	No	Yes	N/A		
LCP	10	EXTERIOR: SITE LIGHT POLES - SOUTH	SWITCH	No	No	No	Yes	N/A		
GENE	RAL NOTES:	a. PROVIDE 16 CHANNEL DIGITAL PROGAMMABLE DIMMING	G LIGHTING C	ONTROL RELAY	PANEL FOF	R LCP1.				

b. PROVIDE OCCUPANCY SENSORS, POWER PACKS, AND ASSOCIATED CIRCUITRY AS REQUIRED. OCCUPANCY SENSORS SHALL PROVIDE FULL COVERAGE OF AREA	ι SERVED.
c. OCCUPANCY SENSORS SHALL BE INACTIVE DURING PROGRAMMED TIMER "ON" PERIODS FOR ZONES ONLY CONTROLLED BY THE RELAY PANEL.	
d. CONTRACTOR TO COORDINATE PROGRAMMING OF TIMED ON AND OFF SETTINGS WITH OWNER REQUIREMENTS.	
e. EXIT SIGNS ON CONTROLLED CIRCUITS SHALL BE CONNECTED TO UN-SWITCHED LEG OF LIGHTING CIRCUIT.	

f. CORRIDOR OCCUPANCY SENSORS SHALL PROVIDE AFTER-HOURS OVERRIDE OF LIGHTING WITHIN EACH INDIVIDUAL CORRIDOR. g. LENGTH OF TIME TO GIVE FLICKER WARNING SHALL BE PROGRAMMED PER OWNER'S REQUEST.

e. GALVANIZE THE INTERIOR AND EXTERIOR OF POLES. PRIME AND PAINT EXTERIOR WITH A MINIMUM OF 3 MILS OF TGIC POWDERS. f. REMOVE PLASTIC WRAP FROM POLES ONCE RECEIVED ON SITE. STORE POLES OUT OF STANDING WATER OR VEGETATION.

2. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS, AND PROVIDE MOUNTING AS SHOWN ON PLANS.

				LIGH	TING	CONT	ROL S	CHEDULE	
ZONE NAME	MANUAL CONTROL	OCCUPANCY SENSOR	VACANCY SENSOR	DAYLIGHT SENSOR	TIMECLOCK/ PHOTOCELL	SENSOR MOUNTING	SENSOR TIMEOUT (MIN.)	FUNCTIONAL DESCRIPTION	REMARKS
CORRIDORS, VIESTIBULES	SWITCH	Yes	No	No	No	CEILING	20	ON BUILDING SCHEDULE DURING NORMAL HOURS. ON OCCUPANCY SENSOR AFTER HOURS. EMERGENCY LUMINAIRES SHALL AUTOMATICALLY TURN ON TO 100% UPON LOSS OF NORMAL POWER.	4,5
EXTERIOR EMERGENCY LIGHTING	NONE	No	No	No	Yes	N/A		AUTO-ON AND AUTO-OFF BY PHOTOCELL, MANUAL OVERRIDE FROM LIGHTING CONTROL PANEL AFTER HOURS. EMERGENCY LUMINAIRES SHALL AUTOMATICALLY TURN ON TO 100% UPON LOSS OF NORMAL POWER.	4,5
EXTERIOR NORMAL LIGHTING - NON-DIMMABLE	NONE	No	No	No	Yes	N/A		AUTO-ON AND AUTO-OFF BY PHOTOCELL, MANUAL OVERRIDE FROM LIGHTING CONTROL PANEL AFTER HOURS.	4,5
JANITOR, STORAGE ROOMS, RECEIVING	SWITCH	Yes	No	No	No	CEILING/WAL L	15	SINGLE POLE SWITCH FOR MANUAL ON/MANUAL OFF.	
LOUNGE/BREAKROOM	DIMMER & SWITCH	No	Yes	Yes	No	CEILING	20	LOW VOLTAGE DIMMER SWITCH FOR MANUAL ON/MANUAL OFF AND DIMMING.	2,7,8
MECH/ELEC ROOMS, TELECOM ROOM, WATER/MED GAS	SWITCH	No	No	No	No	N/A		PILOT LIGHT SWITCH FOR MANUAL ON/MANUAL OFF.	
MEDICAL WORKROOMS, MEDICATION	SWITCH	Yes	No	No	No	WALL	20	LOW VOLTAGE SWITCH FOR MANUAL ON/MANUAL OFF.	
NURSE STATION	DIMMER & SWITCH	Yes	No	No	No	CEILING	20	LOW VOLTAGE DIMMER SWITCHES FOR MANUAL ON/MANUAL OFF AND DIMMING.	
PREP & RECOVERY ROOMS	DIMMER & SWITCH	No	No	No	No	N/A		LOW VOLTAGE DIMMER SWITCHES FOR MANUAL ON/MANUAL OFF AND DIMMING.	
PRIVATE OFFICES	DIMMER & SWITCH	Yes	No	No	No	CEILING	20	LOW VOLTAGE DIMMER SWITCH FOR MANUAL ON/MANUAL OFF AND DIMMING.	
RESTROOMS, LOCKER ROOMS	SWITCH	Yes	No	No	No	CEILING/WAL L	15	AUTO-ON AND AUTO-OFF.	
SHARED OFFICES	DIMMER & SWITCH	Yes	No	No	No	CEILING	20	LOW VOLTAGE DIMMER SWITCHES FOR MANUAL ON/MANUAL OFF AND DIMMING.	
TRASH, CLEAN LINEN, SOILED, SOILED WORKROOM	SWITCH	Yes	No	No	No	WALL	15	SINGLE-POLE SWITCH FOR MANUAL ON/MANUAL OFF.	
WAITING ROOMS, LOBBIES, RECEPTION	DIMMER & SWITCH	Yes	No	Yes	No	CEILING	20	ON BUILDING SCHEDULE DURING NORMAL HOURS, WITH LOW VOLTAGE DIMMER SWITCH FOR MANUAL ON/OFF AND DIMMING. ON OCCUPANCY SENSOR AFTER HOURS. EMERGENCY LUMINAIRES SHALL AUTOMATICALLY TURN ON TO 100% UPON LOSS OF NORMAL POWER.	2,7,8

d. PROVIDE VIBRATION DAMPER IN POLE FIXTURES GREATER THAN 10'.

1. ALTERNATE FIXTURES ARE NOT ACCEPTABLE.

a. OCCUPANCY SENSOR CONTROLS LUMINAIRES FOR AUTO ON/AUTO OFF. b. VACANCY SENSOR CONTROLS LUMINAIRES FOR MANUAL ON/OFF AND AUTO OFF AFTER TIMEOUT. c. DAYLIGHT SENSOR CONTROLS LUMINAIRE OUTPUT WITHIN DAYLIGHTING ZONE.

d. TIMECLOCK AND PHOTOCELL CONTROL LUMINAIRES FOR AUTO ON/AUTO OFF.

1. LUMINAIRES SHALL BE CONTROLLED TO TURN ON TO 50% UPON OCCUPANCY. 2. LUMINAIRES SHALL BE CONTROLLED TO DIM CONTINOUSLY FROM 100% TO 15% OR LOWER.

3. LUMINAIRES SHALL BE CONTROLLED TO DIM TO 50%. 4. COORDINATE TIME SCHEDULE WITH OWNER.

5. PROVIDE LIGHTING CONTROL RELAY PANEL CAPABLE OF 0-10V DIMMING. 6. TIMECLOCK AND PHOTOCELL OVERRIDE OCCUPANCY SENSOR CONTROL FROM DAWN TO DUSK.

7. HATCHING ON PLANS INDICATE DAYLIGHT ZONES. NOT ALL ROOMS REQUIRE DAYLIGHT SENSORS. DAYLIGHT ZONES WITH NO DAYLIGHTING SENSORS FALL UNDER THE EXCEPTION OF IECC C405.2.3.1 OF LESS THAN 150W. 8. THE AUTOMATIC DAYLIGHTING CONTROLS SEQUENCE SHALL INCLUDE AT A MINIMUM:

a. TARGET ILLUMINANCE VALUES FOR WORKING ROOMS (I.E. OFFICES, ETC.) SHOULD BE 35FC AT WORKPLANE HEIGHT. TARGET ILLUMINANCE VALUES FOR COMMON SPACE (I.E. COMMONS, CORRIDORS, ETC.) SHOULD BE 20FC AT GROUND FLOOR. b. FOR AREA THAT ARE NOT USED FOR SPECIFIC OFFICE DESK TASK (I.E. LÓBBIES, CORRIDORS, COMMONS, ETC.) THE SYSTEM SHALL PERFROM A DIM-TO-OFF OPERATION. FOR AREAS THAT ARE USED FOR SPECIFIC OFFICE DESK TASKS, THE SYSTEM SHALL PERFORM A DIM-TO-10% OPERATION. c. IF ROOM IS PROVIDED WITH A MANUAL OVERRIDE SWITCH, THE LIGHTS WILL NOT BE ALLOWED TO BE MANUALLY RAISED ABOVE THE THRESHOLD THAT THE DAYLIGHTING SENSOR IS HOLDING THE LIGHTS AT FOR OPTIMAL ENERGY SAVINGS.

PROJECT NUMBER: 1201002

Branch Pattern BETTER BUILT ENVIRONMENTS

VOLTAGE REMARKS

TYPE LUMENS COLOR CRI VA

LED 3000 lm 4000K 80 24 VA 277 V

CONSTRUCTION



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**MEP CONSULTANT** 

BranchPattern 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311

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3-22030

4 10/5/23 ASI #1

Drawn By Checked By

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Continuous

Appliance

Load Center

Total Receptacle Load

59,200 VA

Total Motor Load

ST - PROVIDE COMPONENTS FOR SHUNT TRIP BREAKER

	E	Branch Panel: N Location: E Supply From: M Mounting: S Enclosure: T Phase Created: N	LEC 197 IDP URFACE ype 1	1				Volts: Phases: Wires:		77V			Mains	K.A.I.C. Ratir Mains Typ / Design Ratin Bus Ratin	pe: MCB ng: 400 A		
Notes	CKT NO.	Circuit Description	Load Classification	Trip	Poles		A		В		С	Poles	Trip	Load Classification	Circuit Description	CKT NO.	
	1					21,767	21,767									2	
	3	HUM-1	E	100 A	3			21,767	21,767			3	100 A	E	HUM-2	4	
	5									21,767	21,767					6	
	7					16,810	14,140									8	
	9	T-NL1	Spare; R; E; L	70 A	3			15,400	14,320			3	70 A	R; E	T-NL2	10	
	11									17,260	14,660					12	
	13					16,000	16,000									14	
ST		STERILIZER STEAM GEN.	E	80 A	3			16,000	16,000			3	80 A	E	STERILIZER STEAM GEN.	16	ST
	17									16,000	16,000					18	
	19	SPACE FOR SHUNT TRIP			1							1			SPACE FOR SHUNT TRIP	20	
	21							2,000	2,000							22	
ST	23	STERILIZER POWER	Е	20 A	3					2,000	2,000	3	20 A	E	STERILIZER POWER	24	ST
	25					2,000	2,000									26	
	27	SPACE FOR SHUNT TRIP			1						_	1			SPACE FOR SHUNT TRIP	28	
	29					_				0	0	_				30	-
		SPARE		60 A	3	0	0					3	60 A		SPARE	32	-
	33							0	0		_					34	
	_	LTG: PARKING LOT NORTH	L	20 A	1					1,105	0	1	20 A		SPARE	36	
	1	LTG: PARKING LOT SOUTH	L	20 A	1	1,105	0	1 101				1	20 A		SPARE	38	
	_	LTG: OR & STAFF SUPPORT	L	20 A	1			1,484	0	1.017		1	20 A		SPARE	40	-
	-	LTG: PREP/RECOVERY & GI	L	20 A	1	004				1,217	0	1	20 A		SPARE	42	-
	-	LTG: LOBBY & ADMIN	L	20 A	1	894		500				1			BUSSED SPACE	44	
	1	LTG: MAIN ENTRY	L	20 A	1			520		0.40		1			BUSSED SPACE	46	
	1	LTG: COURTYARD &	L	20 A	1					240		1			BUSSED SPACE	48	
	-	BUSSED SPACE			1							1			BUSSED SPACE	50	
	1	BUSSED SPACE BUSSED SPACE			1							1			BUSSED SPACE	52	
	-			-	1							1			BUSSED SPACE	54	
	-	BUSSED SPACE BUSSED SPACE		-	<u>'</u>		0					2	20.4		SURGE PROTECTION	56	-
	-				1				0			3	30 A		DEVICE (SPD)	58	-
	59	BUSSED SPACE		 Tot	al Load:	112 /	82 VA	111 2	 !57 VA	114.0	0 15 VA					60	
					I Amps:		7 A	· ·	2 A		2 A						
		Load Classification		Con	nected I	Load	Der	nand Fa	ctor	NEC	Demand	Load	Phase	Balance	Panel Totals		
L	Ligh	hting			6,655 VA	4		125.00%	, D		8,319 VA	1				_	_

0.00%

100%

50%

0.00%

80.00%

0.00%

0.00%

0 VA

10,000 VA

24,600 VA

0 VA

0 VA

217,520 VA

0 VA

0 VA

99 % A-B

98 % B-C

99 % C-A

Connected Load (VA): 337,755 VA

NEC Demand Load (VA): 260,439 VA

Connected Load (A): 406 A

Spare Capacity (A): 87 A

NEC Demand Load (A): 313 A

Spare Capacity (%): 22

0 VA

10,000 VA

49,200 VA

0 VA

0 VA

271,900 VA

0 VA

0 VA

1st 10,000 VA

Remaining

Largest Motor

		Supply From: Mounting: Enclosure:	SURFACE					Volts: Phases: Wires:		77V 			Mains	K.A.I.C. Ratin Mains Typ / Design Ratin Bus Ratin	e: MCB g: 600 A		
	CKT NO.	Circuit Description	Load Classification	Trip	Poles		A		В		<b>C</b>	Poles	Trip	Load Classification	Circuit Description	CKT NO.	
	1	•				4,023	0						-			2	
	3	ATS-LS1	Other; Spare; R; E; L	150 A	3			4,287	0			3	60 A		SURGE PROTECTION DEVICE (SPD)	4	
	5		IX, E, E							3,703	0				DEVICE (SI D)	6	
	7					13,048	22,616									8	
	9	ATS-CR1	Spare; R; L	225 A	3	,			19,040			3	255 A	Spare; R; E; L	ATS-CR2	10	
	11							,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	13.243	19,940					12	
	13					100,0					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					14	
		ATS-EQ1	Spare; R; E;	400 A	3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		101,7				3			BUSSED SPACE	16	
	17	7.110 EQ1	M	10071				101,111		100,1					500015 0.7.01	18	
	19									,						20	
		BUSSED SPACE			3							3			BUSSED SPACE	22	
	23	500025 017102													200022 017.02	24	
	25															26	
		BUSSED SPACE			3							3			BUSSED SPACE	28	
	29	BOOOLD OF MOL													DOGGED OF NOL	30	
	20			Tota	al Load:	139 7	⊥ ′54 VA	136.8	70 VA		73 VA					00	
					l Amps:	· ·	5 A	· ·	4 A	49							
		Load Classification		Con	nected L	oad	Der	mand Fa	ctor	NEC	Demand	Load	Phase	Balance	Panel Totals		
L	Ligh	nting		1	10,372 V	4		125.00%	)	1	2,965 V	4					
С	Con	tinuous			0 VA			0.00%			0 VA			% A-B	Connected Load (VA):	413,696	3 VA
R	] :	Total Receptacle Load	1st 10,000 VA		10,000 V			100%			0,000 VA		-	% B-C	NEC Demand Load (VA):		3 VA
		93,300 VA	Remaining	8	33,300 V	4		50%			1,650 V	4	99	% C-A	Connected Load (A):		
М	_	Total Motor Load	Largest Motor		0 VA			0.00%			0 VA				NEC Demand Load (A):		
	_	176,600 VA	Remaining		76,600 V			100.00%			76,600 V				Spare Capacity (A):		
E		ipment		1;	33,280 V	Α		80.00%		1	06,624 V	Α	_		Spare Capacity (%):	30	
A		liance	0		0 VA			0.00%			0 VA		1				
LC Notes:	Loa	d Center (# of	0		0 VA			0.00%			0 VA						-

	1	Supply From: Mounting: Enclosure:	EM ELEC ROOM ATS-LS1 SURFACE					Volts: Phases: Wires:		77V			Mains	K.A.I.C. Ratir Mains Typ / Design Ratin Bus Ratir	oe: MCB og: 150 A		
	CKT NO.	Circuit Description	Load Classification	Trip	Poles		4		3		C	Poles	Trip	Load Classification	Circuit Description	CKT NO.	
	1			-		3,510	144					1	20 A	L	LTG: MECH YARD	2	
	3	T-LSL1	Spare; R; E	50 A	3			3,510	777			1	20 A	Other; L	LTG: OR & STAFF SUPPORT	4	
	5	_								3,230	473	1	20 A	L	LTG: PREP/RECOVERY & GI	6	
	7	SPARE		20 A	1	0	369					1	20 A	L	LTG: LOBBY & ADMIN	8	
	9	SPARE		20 A	1			0	0			1	20 A		SPARE	10	
	11			20 A	1					0	0	1	20 A		SPARE	12	
		BUSSED SPACE			1		0					1	20 A		SPARE	14	
		BUSSED SPACE			1				0			1	20 A		SPARE	16	
	17	BUSSED SPACE			1				-		0	1	20 A		SPARE	18	
	19	BUSSED SPACE			1						-	1			BUSSED SPACE	20	
	21	BUSSED SPACE			1							1			BUSSED SPACE	22	
	23	BUSSED SPACE			1							1			BUSSED SPACE	24	
	25	300022 0.7.02			•	0						1			BUSSED SPACE	26	
	27	SURGE PROTECTION		30 A	3			0				1			BUSSED SPACE	28	
	29	DEVICE (SPD)		0071						0		1			BUSSED SPACE	30	
				Tota	Load:	4 02	3 VA	4 28	 7 VA	_	3 VA	'			DOGGED OF NOE	00	
					I Amps:		5 A	<u> </u>	6 A	· ·	3 A						
		Load Classification		Con	nected L	_oad	Der	mand Fa	ctor	NEC	Demand	l Load	Phase	e Balance	Panel Totals		
L	Lig	hting			1,619 VA	\		125.00%	)		2,024 VA	A					
С	Coi	ntinuous			0 VA			0.00%			0 VA		94	% A-B	Connected Load (VA): 1	2,013	VA
R		Total Receptacle Load	1st 10,000 VA		720 VA			100%			720 VA		4	% B-C	NEC Demand Load (VA): 1		VA
		720 VA	Remaining		0 VA			0%			0 VA		93	% C-A	Connected Load (A): 1		
М		Total Motor Load	Largest Motor		0 VA			0.00%			0 VA		-		NEC Demand Load (A): 1		
	-	0 VA	Remaining		0 VA			0.00%			0 VA	^	-		Spare Capacity (A): 1		
E	<u> </u>	uipment			9,530 VA 0 VA	١		80.00%			7,624 VA 0 VA	4	-		Spare Capacity (%): 9	2	
LC	+	oliance ad Center (# of	0		0 VA			0.00%			0 VA		+				
	LUC	4G COΠΙΟΙ (# UI	U		0 1/			0.0070		1	$\sigma \sim \tau$		I	1			

		Location: E Supply From: Mounting: S Enclosure: Phase Created: P	SURFACE NEMA 1				J	Volts: Phases: Wires:		0V			Mains	K.A.I.C. Ratir Mains Typ / Design Ratir Bus Ratir	pe: MCB ng: 100 A		
	CKT NO.	Circuit Description	Load Classification	Trip	Poles	,	4	E	3	(	<b>c</b>	Poles	Trip	Load Classificatior	n Circuit Description	CKT NO.	Notes
	1	PAP-1	E	20 A	1	240	750					2	50 A	Е	IBOY: CENTIACKET HEATER	2	
	3	SAP-1	E	20 A	1			240	750			2	50 A		JBOX: GEN JACKET HEATER	4	
	5	AAP-1/2	E	20 A	1					240	600	1	20 A	Е	JBOX: ENGINE OIL HEATER	6	
	7	AAP-3/4	E	20 A	1	240	600					1	20 A	Е	JBOX: GEN BATT. CHARGER	8	
	9	AAP-5	E	20 A	1			240	600			1	20 A	Е	JBOX: GEN STATOR	10	
	11	AAP-6	E	20 A	1					240	720	1	20 A	R	REC: MECH YARD	12	
	13	AAP-7	E	20 A	1	240	600					1	20 A	E	J-BOX: FIRE ALARM PANEL	14	FA
	15	AAP-8	E	20 A	1			240	600			1	20 A	E	J-BOX: FIRE ALARM PANEL	16	FA
	17	J-BOX: AUTO DOORS 140	E	20 A	1					240	600	1	20 A	E	J-BOX: FIRE ALARM RPS	18	FA
	19	J-BOX: AUTO DOORS 107	E	20 A	1	240	600					1	20 A	E	DRY PIPE ALARM & CTRLS	20	FA
		J-BOX: AUTO DOORS 101	E	20 A	1			240	600			1	20 A	E	DRY PIPE AIR COMP.	22	FA
		J-BOX: AUTO DOORS 180	E	20 A	1					240	350	1	20 A	E	JBOX: FIRE/SMOKE DAMPER	<b></b>	
		SPARE		20 A	1	0	0					1	20 A		SPARE	26	
		SPARE		20 A	1			0	0			1	20 A	-A	SPARE		-0-0
		SPARE		20 A	1					0	0	_1_	20 A	R	J-BOX: DOCK STN RCPT	30	~ ~~
		SPARE		20 A	1	0	0					ملا	30 A	. R	J-BOX: HEATER RCPT	32	
		SPARE		20 A	1	-		0				سېب	سب	سيس	BUSSED SPACE	34	س
		SPARE		20 A	1					0		1			BUSSED SPACE	36	
	37				-	0				-		1			BUSSED SPACE	38	
+	39	SURGE PROTECTION		30 A	3			0				1			BUSSED SPACE	40	
+	41	DEVICE (SPD)								0		1			BUSSED SPACE	42	
+	••			Tota	al Load:	3.51	0 VA	3,51	0 VA	3,23		<u> </u>		l			
					l Amps:		) A	30			΄Α						
		Load Classification		Con	nected L	.oad	Den	nand Fa	ctor	NEC I	Demand	Load	Phase	Balance	Panel Totals		
L		nting			0 VA			0.00%			0 VA						
C		Total December Lond	1 ot 10 000 \/4		0 VA			0.00%			0 VA		1	% A-B	Connected Load (VA): 10		
R		Total Receptacle Load 720 VA	1st 10,000 VA Remaining		720 VA 0 VA			100% 0%			720 VA 0 VA		4	% B-C % C-A	NEC Demand Load (VA): 8, Connected Load (A): 28		A
M		Total Motor Load	Largest Motor		0 VA			0.00%			0 VA		33	/0 O-/A	NEC Demand Load (A): 23		
171	1	0 VA	Remaining		0 VA			0.00%			0 VA		_		Spare Capacity (A): 77		
E	Equ	ipment			9,530 VA			80.00%		•	7,624 V	4			Spare Capacity (%): 77		
A	<u> </u>	liance			0 VA			0.00%			0 VA		-				
LC		d Center (# of	0		0 VA			0.00%			0 VA		1				

www.branchpattern.com PROJECT NUMBER: 1201002 BranchPattern PROJECT NUMBER: 1201002
BETTER BUILT ENVIRONMENTS

**Branch Panel: EQH1** Location: EM ELEC ROOM 196 K.A.I.C. Rating: 50 Volts: 480Y/277V Supply From: ATS-EQ1 Mains Type: MCB Phases: 3 Mounting: SURFACE Mains / Design Rating: 400 A Enclosure: Type 1 Bus Rating: 400 A Phase Created: New Construction 16,100 7,500 Spare; R; E; 70 A 3 17,770 7,500 3 40 A M PAC-1 3 T-EQL1 16,220 7,500 1,667 | 6,933 M 20 A 3 1,667 6,933 3 35 A M MVP-1 9 MAC-1 ST | 15 | AHU-1 SUPPLY FANS 19 SPACE FOR SHUNT TRIP M 35 A 3 6,100 6,100 3 35 A M AHU-2 RETURN FANS

-- - 1 - 1 - - - SPACE FOR SHUNT TRIP

E 50 A 3 10,000 200 3 20 A M AHU-2 CDQ MOTOR ST 23 AHU-1 RETURN FANS 27 SPACE FOR SHUNT TRIP ST 31 SMALL STERILIZER POWER E 50 A 3 10,000 200 10,000 200 -- - 1 -- SPACE FOR SHUNT TRIP

8,000 3,067 3 20 A M HWP-1 35 SPACE FOR SHUNT TRIP E 40 A 3 8,000 3,067 3 20 A M HWP-1 39 WASHER-DISINFECTOR 8,000 | 3,067 | E 40 A 3 8,000 3,067 3 20 A M HWP-2 45 WASHER-DISINFECTOR 8,000 3,067 -- -- 1 -- -- BUSSED SPACE
-- -- 1 -- -- BUSSED SPACE
-- -- 1 -- -- BUSSED SPACE
-- -- 1 -- -- BUSSED SPACE
-- 30 A 3 -- -- -- 1 -- -- BUSSED SPACE
-- 30 A 3 -- -- -- 1 -- -- BUSSED SPACE
-- Total Load: 100 067 VA 101 737 VA 100 187 VA 49 BUSSED SPACE 51 BUSSED SPACE 53 BUSSED SPACE SURGE PROTECTION DEVICE (SPD) **Total Load:** 100,067 VA 101,737 VA 100,187 VA **Total Amps:** 361 A 367 A 362 A

	Load Classification	1	Connected Load	Demand Factor	NEC Demand Load	Phase Balance	Panel Totals
	Lighting		0 VA	0.00%	0 VA		
;	Continuous		0 VA	0.00%	0 VA	99 % A-B	Connected Load (VA): 301,990 VA
	Total Receptacle Load	1st 10,000 VA	6,500 VA	100%	6,500 VA	99 % B-C	NEC Demand Load (VA): 278,212 VA
	6,500 VA	Remaining	0 VA	0%	0 VA	100 % C-A	Connected Load (A): 363 A
	Total Motor Load	Largest Motor	0 VA	0.00%	0 VA		NEC Demand Load (A): 335 A
	176,600 VA	Remaining	176,600 VA	100.00%	176,600 VA		Spare Capacity (A): 65 A
	Equipment		118,890 VA	80.00%	95,112 VA		Spare Capacity (%): 16
	Appliance		0 VA	0.00%	0 VA		
)	Load Center (# of	0	0 VA	0.00%	0 VA		

Branch Panel: EQL1		

Γ - PROVIDE COMPONENTS FOR SHUNT TRIP BREAKER

6,500 VA

Total Motor Load

2,700 VA

ST - PROVIDE COMPONENTS FOR SHUNT TRIP BREAKER.

LC Load Center (# of...

Largest Motor

Remaining

0 VA

0 VA

2,700 VA

40,890 VA

0 VA

Location: EM ELEC ROOM 196 K.A.I.C. Rating: 10 Volts: 208Y/120V Supply From: T-EQL1 Mains Type: MCB

		Mounting: S Enclosure: N Phase Created: N	IEMA 1	1				Wires:	4				Mains	/ Design Ratin Bus Ratin	_		
Notes	CKT NO.	Circuit Description	Load Classification	Trip	Poles		A		В	(	C	Poles	Trip	Load Classification	Circuit Description	CKT NO.	
	1					550	550									2	
ST	3	B-1	E	20 A	3			550	550			3	20 A	E	B-2	4	S
	5									550	550					6	
	7	SPACE FOR SHUNT TRIP			1							1			SPACE FOR SHUNT TRIP	8	
	9							1,000	1,000							10	
	11	ULTRASONIC CLEANER	E	20 A	3					1,000	1,000	3	20 A	E	ULTRASONIC CLEANER	12	
	13					1,000	1,000									14	
	15							900	2,500			2	20.4	_	EUH-1	16	
	17	CP-1	М	20 A	3					900	2,500	2	30 A	E	EUN-I	18	
	19					900	2,080					2	20.4	_	CH 1 9 CC 1	20	
	21	GWH-1	E	20 A	1			360	2,080			2	20 A	E	CU-1 & SS-1	22	
	23	GWH-2	E	20 A	1					360	600	_	20.4	Б	DEC. DI 4	24	
	25	REC: WS-1	R	20 A	1	360	600					2	20 A	R	REC: DI-1	26	
	27	GV GAS SHUTOFF VALVE	E	20 A	1			180	600					_	DE0 D14	28	
	29	REC: GT-1	R	20 A	1					360	600	2	20 A	R	REC: DI-1	30	
	31	EF-1	E	20 A	1	1,920	600					1	20 A	R	REC: DI-1	32	
	33	EF-2	E	20 A	1			1,920	600			1	20 A	R	REC: DI-1	34	
	35	EF-3	Е	20 A	1					1,920	360	1	20 A	Е	AHU-1 UV LIGHTS	36	
	37	EF-4	Е	20 A	1	1,920	1,200			,		1	20 A	Е	AHU-1 ACCESSORIES	38	
		EF-5	Е	20 A	1	,	,	1,920	360			1	20 A	E	AHU-2 UV LIGHTS	40	
		J-BOX: BAS PANEL	Е	20 A	1					600	1,200	1	20 A	Е	AHU-2 ACCESSORIES	42	
		MV-1	Е	20 A	1	180	480				,	1	20 A	E	J-BOX: 196 PASSTHRU	44	
		J-BOX: HEAT TRACE HUM-1	E	20 A	1			360	180			1	20 A	R	REC: 182 DETERGENT	46	
		J-BOX: HEAT TRACE HUM-2	E	20 A	1					360	1,200	1	20 A	E	J-BOX: STERILIZER CTRLS	48	
		PLMB PWR 112,113,123	E	20 A	1	350	1,000				1,===	1	20 A	R	REC: 166 REFRIGERATOR	50	
		PLMB PWR GI, TLT 148	E	20 A	1		1,000	250	1,000			1	20 A	R	REC: 166 REFRIGERATOR	52	
		PLMB PWR OR SUPPORT	E	20 A	1			200	1,000	500	200	1	20 A	E	VAV PWR: OR RETURN	54	
		PLMB PWR	E	20 A	1	550	500					1	20 A	E	VAV PWR: AHU-2	56	
		AUTO TRAP PRIMERS	E	20 A	1	330	330	960	500			1	20 A	E	VAV PWR: AHU-1	58	
		AUTO TRAP PRIMERS	E	20 A	1			300	330	960	500	1	20 A	E	VAV PWR: AHU-1	60	
		SPARE		20 A	1	0	360			333	300	1	20 A	E	CHILLER HEATER & HEAT	62	
		SPARE (HWP-3)		20 A	1		000	0				1			BUSSED SPACE	64	
		SPARE (HWP-4)		20 A	1					0		1			BUSSED SPACE	66	
	67	S. / II (		207	<u>'</u>	0						1			BUSSED SPACE	68	
	69	SURGE PROTECTION		30 A	3			0				1			BUSSED SPACE	70	
	71	DEVICE (SPD)		30 /						0		1			BUSSED SPACE	72	
	'			Tot	al Load:	16 10	00 VA	17 7	/ 70 VA		 20 VA	'			DOOOLD OF AUL	12	
					al Amps:		4 A		8 A		5 A						
		Load Classification		Con	nected L	_oad	Der	nand Fa	ctor	NEC	Demand	Load	Phase	Balance	Panel Totals		
L	Ligh	hting			0 VA			0.00%			0 VA						
С	_	ntinuous			0 VA			0.00%			0 VA			% A-B	Connected Load (VA): 5	0,090	VA
R		Total Receptacle Load	1st 10,000 VA		6,500 VA	A		100%			6,500 VA	١		% B-C	NEC Demand Load (VA): 4		VA
	1	6 500 \/A	Pemaining		0 \/ \		1	Ω0/2		1	0 \/ \		100	% C A	Connected Lead (A): 1	20 1	

0.00%

100.00%

80.00%

0.00%

0.00%

0 VA

0 VA

2,700 VA

32,712 VA

0 VA

0 VA

100 % C-A

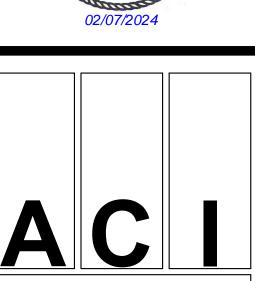
Connected Load (A): 139 A

Spare Capacity (A): 34 A

NEC Demand Load (A): 116 A

Spare Capacity (%): 22

CONSTRUCTION



ARCHITECTS ACI/Boland, Inc. Kansas City | St. Louis 1710 Wyandotte

Missouri: #000958

Licensee's Certificate of Authority Number:

Kansas City, MO 64108

T: 816.763.9600

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MEP CONSULTANT

BranchPattern 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311

> Summit ee of enter

Job Number Drawn By Checked By

3-22030

950 ee's

Revision

ASI #4

8 2/7/24

2/8/2023

ΑE JB, AP

**ELECTRICAL SCHEDULES** 

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125.00%

0.00%

80.00%

0.00%

0.00%

113 VA

0 VA

10,000 VA

3,580 VA

0 VA

0 VA

25,488 VA

0 VA 0 VA 92 % B-C

100 % C-A

Connected Load (VA): 49,110 VA

NEC Demand Load (VA): 39,181 VA

Connected Load (A): 136 A

Spare Capacity (A): 41 A

Spare Capacity (%): 27

**NEC Demand Load (A):** 109 A

90 VA

10,000 VA

0 VA

0 VA

31,860 VA

0 VA

0 VA

30,600 VA

1,440 VA

Largest Motor

1st 10,000 VA

Largest Motor

Remaining

Remaining

Total Receptacle Load

17,160 VA

Total Motor Load

0 VA

40,600 VA

Total Motor Load

E Equipment A Appliance

LC Load Center

Notes: 9 G - GFCI BREAKER

Appliance

LC Load Center

	Branch Panel: I  Location: E Supply From: T  Mounting: S Enclosure: N Phase Created: N	ELEC 179 F-NL2 SURFACE NEMA 1	1	Volts: 208Y/120V Phases: 3 Wires: 4							K.A.I.C. Rating: 10  Mains Type: MCB  Mains / Design Rating: 150 A  Bus Rating: 150 A					
CKT otes NO.	Circuit Description	Load Classification	•	Poles	A		E	3		;	Poles	•	Load Classification	•	CKT NO.	I
1	REC: 105 COPIER	R	20 A	1	1,000	720					1	20 A	R	REC: HEADWALL 115	2	
3	REC: 105	R	20 A	1			540	720			1	20 A	R	REC: HEADWALL 117	4	
5	REC: 105 SHREDDER	R	20 A	1					1,080	720	1	20 A	R	REC: HEADWALL 121	6	
7	REC: 102 COUNTER	R	20 A	1	540	720					1	20 A	R	REC: HEADWALL 125	8	
	REC: 102, 103, 104	R	20 A	1			1,260	900			1	20 A	R	REC: TV 121 & 125	10	
	REC: 100	R	20 A	1					720	720	1	20 A	R	REC: HEADWALL 127	12	
	REC: 101, 112, 113	R	20 A	1	1,080	720					1	20 A	R	REC: HEADWALL 116	14	
15	REC: 100 EWC	R	20 A	1			1,000	720			1	20 A	R	REC: HEADWALL 133	16	
17	REC: 100B COUNTER	R	20 A	1					800	360	1	20 A	R	REC: 118 COUNTER	18	
19	REC: 100B TV & BENCH	R	20 A	1	720	900					1	20 A	R	REC: 122, 132	20	
21	REC: 111	R	20 A	1			900	900			1	20 A	R	REC: 135, 137	22	
23	REC: 109	R	20 A	1					1,080	720	1	20 A	R	REC: 137, 164	24	
25	J-BOX: 110 BADGE MAKER	Е	20 A	1	0	720					1	20 A	R	REC: HEADWALL 132	26	
27	REC: 108	R	20 A	1			360	720			1	20 A	R	REC: HEADWALL 134	28	
29	REC: 108	R	20 A	1					360	720	1	20 A	R	REC: HEADWALL 136	30	
31	REC: 107, 114, 131	R	20 A	1	1,080	720					1	20 A	R	REC: HEADWALL 138	32	
33	REC: 151	R	20 A	1			720	720			1	20 A	R	REC: HEADWALL 142	34	
35	REC: 152	R	20 A	1					1,260	720	1	20 A	R	REC: HEADWALL 144	36	
37	REC: 153, 150 TV	R	20 A	1	1,080	720					1	20 A	R	REC: HEADWALL 146	38	
39	REC: 154, 155	R	20 A	1			720	180			1	20 A	R	REC: 166 COUNTER	40	
41	REC: 156	R	20 A	1					1,260	180	1	20 A	R	REC: 166 COFFEE	42	
43	REC: 157	R	20 A	1	720	180					1	20 A	R	REC: 166 ICE WATER	44	
45	REC: 148, 167, 169	R	20 A	1			1,080	180			1	20 A	R	REC: 166 DISHWASHER	46	G
	REC: 165	R	20 A	1					900	180	1	20 A	R	REC: 166 DISPOSAL	48	W
49	REC: 163	R	20 A	1	900	180					1	20 A	R	REC: 166 COUNTER	50	
	REC: 161	R	20 A	1			900	180			1	20 A	R	REC: 166 COUNTER	52	
	REC: 162	R	20 A	1					900	180	1	20 A	R	REC: 166 MICROWAVE	54	
	REC: 129	R	20 A	1	900	180					1	20 A	R	REC: 166 MICROWAVE	56	
	CUH-1	E	20 A	1			720	900			1	20 A	R	REC: 166, 166 TV	58	
	CUH-2	E	20 A	1					720	360	1	20 A	R	REC: 166 BENCH	60	
	BUSSED SPACE			<u>·</u> 1						300	1			BUSSED SPACE	62	
	BUSSED SPACE			<u>'</u> 1							1			BUSSED SPACE	64	
	BUSSED SPACE			<u>'</u> 							1			BUSSED SPACE	66	
	BUSSED SPACE			<u>'</u> 							1			BUSSED SPACE	68	
	BUSSED SPACE			<u>'</u> 1							1			BUSSED SPACE	70	
	BUSSED SPACE			<u>'</u> 1							1			BUSSED SPACE	72	
- 1	DUGGED OF AGE			Load:	13,78	0 VA	14,32	0 VA	13,94		•	_	-	2000LD 01 / 10L	12	Ĺ
				Amps:	115		120		116		_					
	Load Classification		Conn	nected L	oad	Den	nand Fac	ctor	NEC I	Demand	Load	Phase	Balance	Panel Totals		
	hting			0 VA			0.00%			0 VA		^ <del>-</del>	0/ 4.5	0	40.046	١/^
	Total Recentagle Load	1st 10,000 VA	4 /	0 VA	٨		0.00%			0 VA	^		% A-B	Connected Load (VA):		
R	Total Receptacle Load	1St 10,000 VA		0,000 VA			50%			0,000 V		98	% B-C	NEC Demand Load (VA):	∠0,43∠	٧A

50%

0.00%

0.00%

80.00%

0.00%

15,300 VA

0 VA

0 VA

1,152 VA

0 VA

0 VA

99 % C-A

Connected Load (A): 117 A

Spare Capacity (A): 77 A

Spare Capacity (%): 51

NEC Demand Load (A): 73 A

		Location: E Supply From: A Mounting: S Enclosure: Ty Phase Created: N	URFACE ype 1				I	Volts: Phases: Wires:		77V			Mains	K.A.I.C. Ratin Mains Typ / Design Ratin Bus Ratin	e: MCB g: 225 A		
Notes	CKT NO.	Circuit Description	Load Classification	Trip	Poles		A	ı	В	(	2	Poles	Trip	Load Classification	Circuit Description	CKT NO.	
	1					5,400	2,520					2	30 A	Spare; R	OR1A	2	
	3	T-CRL1	Spare; R	70 A	3			6,160	2,520							4	
	5									5,760	2,520	2	30 A	Spare; R	OR2A	6	
	1	LI-1	Spare; L	25 A	1	2,608	2,520					_		Spa. 5, 11	· · · · ·	8	
	9	LTG: OR & STAFF SUPPORT	L	20 A	1			606	2,520			2	30 A	Spare; R	OR3A	10	
	11	LTG: PREP/RECOVERY & GI	L	20 A	1					2,803	2,520		30 A	Oparc, IX	ONOA	12	
	13	SPARE		20 A	1	0	0					2	30 A		SPARE	14	
	15	SPARE		20 A	1			0	0				30 A		SPARE	16	
	17	SPARE		20 A	1					0		1			BUSSED SPACE	18	
	19	SPARE		20 A	1	0						1			BUSSED SPACE	20	
	21	SPARE		20 A	1			0				1			BUSSED SPACE	22	
	23	SPARE		20 A	1					0		1			BUSSED SPACE	24	
	25	SPARE		20 A	1	0						1			BUSSED SPACE	26	
	27	SPARE		20 A	1	-		0				1			BUSSED SPACE	28	+
		SPARE		20 A	1			_		0		1			BUSSED SPACE	30	
	31	BUSSED SPACE			1							1			BUSSED SPACE	32	
		BUSSED SPACE			1							1			BUSSED SPACE	34	
		BUSSED SPACE			1							1			BUSSED SPACE	36	
	37	BUSSED SPACE			1	0						1			BUSSED SPACE	38	+
	-	SURGE PROTECTION		20.4		U		0					-				-
	39	DEVICE (SPD)		30 A	3			0		-		1			BUSSED SPACE	40	
	41			<b>T</b> . 1	- 1 1 1	40.0	40.1/4	44.00	20.14	0		1	-		BUSSED SPACE	42	
					al Load: al Amps:		48 VA 8 A		06 VA 3 A		)3 VA ) A						
		Load Classification		Con	nected I	_oad	Der	nand Fa	ctor	NEC	Demand	Load	Phase	Balance	Panel Totals		
L	Ligh	hting			6,017 VA	<b>A</b>		125.00%	, D		7,521 VA	١					
С		ntinuous			0 VA			0.00%			0 VA		91	% A-B	Connected Load (VA):	38,457	' VA
R			1st 10,000 VA	•	10,000 V	A		100%		1	0,000 V	A	-	% B-C	NEC Demand Load (VA):		VA
		32,440 VA	Remaining	2	22,440 V	A		50%		1	1,220 V	A	96	% C-A	Connected Load (A):		
М		Total Motor Load	Largest Motor		0 VA			0.00%			0 VA		_		NEC Demand Load (A):		
		0 VA	Remaining		0 VA			0.00%			0 VA		_		Spare Capacity (A):		
E		uipment 			0 VA			0.00%			0 VA				Spare Capacity (%):	85	
Α		oliance			0 VA			0.00%			0 VA		-				
LC	Loa	ad Center (# of	0		0 VA			0.00%			0 VA						

	Bran	Ch Panel:  Location: Supply From: Mounting: Enclosure: Phase Created:	EM ELEC ROOM T-CRL1 SURFACE NEMA 1	Phases: 3 Wires: 4								Mains	K.A.I.C. Ratin Mains Typ / Design Ratin Bus Ratin	oe: MCB og: 150 A			
CI es N	O. Cir	cuit Description	Load Classification	Trip	Poles		A	E	3	C	;	Poles	•	Load Classification	•		
		EADWALL 124	R	20 A	1	540	180					1	20 A	R	REC: 178	2	
		EADWALL 124	R	20 A	1			540	1,000	F40	000	1	20 A	R	REC: 176 CRYOSTAT	4	
		EADWALL 126	R	20 A	1	E40	600			540	600	1	20 A	R	REC: 176 CENTRIFUGE	6	
7		EADWALL 126	R	20 A		540	600	540	000			1	20 A	R	REC: 172 NEPTUNE	8	
9		EADWALL 128	R	20 A	1			540	600	540	4.000	1	20 A	R	REC: 172 NEPTUNE	10	
1		EADWALL 128	R	20 A	1	4.000	4 200			540	1,200	1	20 A	R	REC: 171 LOW-TEMP	12	
1	— REC· OI	R#1 LASER	R	30 A	2	1,080	1,200	4.000	000			1	20 A	R	REC: 171 LOW-TEMP	14	
1								1,080	600	4.000	200	1	20 A	R	DEC. 407 BLANKET WADA	16	
1	— REC: OI	R#2 LASER	R	30 A	2	4.000	400			1,080	360	1	20 A	R /9\	REC: 167 BLANKET WARN	1 18	
1						1,080	180	4.000	700			1	20 A	R	REC: ELEC ROOM 196	20	
2	— REC: ∩I	R#3 LASER	R	30 A	2			1,080	720	1.000	360	1	20 A		DEC. 467 CDASH CART		~
2						0	0			1,080	360	1	20 A 20 A	Riv	TEDADE	كيب	W
2	— SPARE			30 A	2	0	U	0	0			1	20 A		SPARE	26	
		R#1 INTEGRATION		20 A	1			U	U	0	0	1	20 A		SPARE	30	
3		R#1 INTEGRATION		20 A	1	0	0			U	U	1	20 A		SPARE	32	
_		R#1 INTEGRATION R#2 INTEGRATION		20 A	1	0	U	0	0			1	20 A		SPARE	34	
		R#2 INTEGRATION		20 A	1			U	U	0	0	1	20 A		SPARE	36	
		R#3 INTEGRATION		20 A	1	0	0			U	U	1	20 A		SPARE	38	
		R#3 INTEGRATION		20 A	1	0	U	0	0			1	20 A		SPARE	40	
	SPARE	R#3 INTEGRATION		20 A	1			U	U	0	0	1	20 A		SPARE	40	
	3 SPARE			20 A	1	0	0			U	U	1	20 A		SPARE	44	
	5 SPARE			20 A	1	U	U	0	0			1	20 A		SPARE	46	
4				20 A	1			U	U	0	0	1	20 A		SPARE	48	
	BUSSEI				1					U	U	1			BUSSED SPACE	50	
5					1							1			BUSSED SPACE	52	
	BUSSEI				1							1			BUSSED SPACE	54	
	5 BUSSEI				1							1			BUSSED SPACE	56	
		O SPACE O SPACE			1							1			BUSSED SPACE	58	
5					1							1					
6	BUSSEI BUSSEI				1							1			BUSSED SPACE BUSSED SPACE	60 62	
	BUSSEI				1							1			BUSSED SPACE	64	
6		O SPACE O SPACE			1							1			BUSSED SPACE	66	
6		JOSPACE			ı	0						1			BUSSED SPACE	68	
6	SURGE	PROTECTION		30 A	3	<u> </u>		0				1			BUSSED SPACE	70	
7		(SPD)		30 A	3			U		0		1			BUSSED SPACE	72	
+'	1			Tot	al Load:	5.40	0 VA	6,16	Ο VA	5,760					DOGGED OF ACE	12	
					I Amps:		5 A	-	2 A	48							
								<u> </u>									
	Lo	ad Classification		Con	nected L	.oad	Der	nand Fa	ctor	NEC [	Demand	Load	Phase	Balance	Panel Totals		
L	ighting				0 VA			0.00%			0 VA						
(	ontinuous				0 VA			0.00%			0 VA			% A-B	Connected Load (VA)		
_		ceptacle Load	1st 10,000 VA		10,000 VA			100%			0,000 VA			% B-C	NEC Demand Load (VA)		VA
		,320 VA	Remaining		7,320 VA	1		50%		3	3,660 VA	\	94	% C-A	Connected Load (A)		
		Motor Load 0 VA	Largest Motor Remaining		0 VA 0 VA			0.00%			0 VA 0 VA		-		NEC Demand Load (A) Spare Capacity (A)		
F	quipment	U VA	nemaining		0 VA 0 VA			0.00%			0 VA		-		Spare Capacity (A)		
_	ppliance				0 VA			0.00%			0 VA		-		Spaid Supadity (70)		
	oad Center	(# of	0		0 VA			0.00%			0 VA		1				

	Branch Panel:																	
		: EM ELEC ROOM	196					480Y/27	77V				K.A.I.C. Ratin					
	Supply From						Phases:					Mains Type: MCB						
	_	: SURFACE					Wires:	4				Mains	/ Design Ratin	_				
	Enclosure												Bus Ratin	ng: 225 A				
	Phase Created	: New Construction	1															
	СКТ	Load											Load		скт	Γ		
Notes		Classification	Trip	Poles		A	E	3	(	С	Poles	Trip	Classification	Circuit Description	NO.			
	1				15,520	2,700					2	30 A	Spare; R; E	OR1B	2			
	3 T-CRL2	Spare; R; E	70 A	3			13,680	2,660			_	0071	oparo, rt, E	OTTIB	4			
	5								14,580	2,700	2	30 A	Spare; R; E	OR2B	6			
	7 LTG: OR#1, OR#2, OR#3	L	20 A	1	2,736	2,660						30 A	Oparc, IX, E	ONZD	8			
	9 SPARE		20 A	1			0	2,700			2	30 A	Spare; R; E	OR3B	10			
	11 SPARE		20 A	1					0	2,660		30 A	Oparc, 11, L	ONOB	12			
	13 SPARE		20 A	1	0	0					2	30 A		SPARE	14			
	15 SPARE		20 A	1			0	0				30 A		OI AIL	16			
	17 SPARE		20 A	1					0		1			BUSSED SPACE	18			
	19 SPARE		20 A	1	0						1			BUSSED SPACE	20			
	21 SPARE		20 A	1			0				1			BUSSED SPACE	22			
	23 SPARE		20 A	1					0		1			BUSSED SPACE	24			
	25 SPARE		20 A	1	0						1			BUSSED SPACE	26			
	27 SPARE		20 A	1			0				1			BUSSED SPACE	28			
	29 SPARE		20 A	1					0		1			BUSSED SPACE	30			
	31 BUSSED SPACE			1							1			BUSSED SPACE	32			
	33 BUSSED SPACE			1							1			BUSSED SPACE	34			
	35 BUSSED SPACE			1							1			BUSSED SPACE	36			
	37				0						1			BUSSED SPACE	38			
	39 SURGE PROTECTION DEVICE (SPD)		30 A	3			0				1			BUSSED SPACE	40			
	41 DEVICE (SPD)								0		1			BUSSED SPACE	42			
		ı	Tota	al Load:	23,61	16 VA	19,04	0 VA	19,94	40 VA		l .	ı	1		-1		
			Tota	l Amps:	86	6 A	69	Α	72	2 A								
	Load Classification		Con	nected l	_oad	Dei	mand Fa	ctor	NEC	Demand	Load	Phase	Balance	Panel Totals				
L	Lighting		2	2,736 V <i>A</i>	١		125.00%			3,420 VA	1							
С	Continuous			0 VA			0.00%			0 VA		4	% A-B	Connected Load (VA):				
R	Total Receptacle Load	1st 10,000 VA		0,000 V			100%			10,000 V		-1	% B-C	NEC Demand Load (VA):		VA		
R A	55,000 VA	Remaining	4	5,000 V	4		50%		2	22,500 V/	4	85	% C-A	Connected Load (A):				
М	Total Motor Load  0 VA	Largest Motor Remaining		0 VA			0.00%			0 VA 0 VA				NEC Demand Load (A):				
Е	Equipment	Remaining		0 VA 4,860 VA			0.00%			3,888 VA		-		Spare Capacity (A): Spare Capacity (%):				
A	Appliance			4,860 VA 0 VA	`		0.00%			3,888 VA 0 VA	1	-		Spare Capacity (%):	19			
LC	Load Center (# of	0		0 VA			0.00%			0 VA		1						

		ranch Panel: (  Location: E Supply From: T Mounting: S Enclosure: N Phase Created: N		Volts: 208Y/120V Phases: 3 Wires: 4							K.A.I.C. Rating: 10  Mains Type: MCB  Mains / Design Rating: 150 A  Bus Rating: 150 A					
	CKT NO.	Circuit Description	Load Classification	Trip	Poles		A	E	3	(		Poles	•	Load Classification	•	CKT NO. N
		EC: HEADWALL 132	R	20 A	1	540	540					1	20 A	R	REC: HEADWALL 138	2
		EC: HEADWALL 132	R	20 A	1			540	540			1	20 A	R	REC: HEADWALL 138	4
		EC: HEADWALL 134	R	20 A	1					540	540	1	20 A	R	REC: HEADWALL 142	6
		EC: HEADWALL 134	R	20 A	1	540	540					1	20 A	R	REC: HEADWALL 142	8
	-	EC: HEADWALL 136	R	20 A	1			540	540			1	20 A	R	REC: HEADWALL 144	10
		EC: HEADWALL 136	R	20 A	1					540	540	1	20 A	R	REC: HEADWALL 144	12
	_	EC: HEADWALL 133	R	20 A	1	540	540					1	20 A	R	REC: HEADWALL 146	14
		EC: HEADWALL 133	R	20 A	1			540	540			1	20 A	R	REC: HEADWALL 146	16
		EC: HEADWALL 116	R	20 A	1					540	540	1	20 A	R	REC: HEADWALL 121	18
	19 RE	EC: HEADWALL 116	R	20 A	1	540	540					1	20 A	R	REC: HEADWALL 121	20
	21 RE	EC: HEADWALL 115	R	20 A	1			540	540			1	20 A	R	REC: HEADWALL 125	22
	23 RE	EC: HEADWALL 115	R	20 A	1					540	540	1	20 A	R	REC: HEADWALL 125	24
	25 RE	EC: HEADWALL 117	R	20 A	1	540	540					1	20 A	R	REC: HEADWALL 127	26
	27 RE	EC: HEADWALL 117	R	20 A	1			540	540			1	20 A	R	REC: HEADWALL 127	28
	29 RE	EC: 152	R	20 A	1					1,080	1,000	1	20 A	R	REC: 118 WARM CABINET	30
	31 RE	EC: 152 ENDO CART	R	20 A	1	360	900					1	20 A	R	REC: 118 NURSE DESK	32
	33 J-I	BOX: 152 GI BOOM	E	20 A	1			360	900			1	20 A	R	REC: 118 NURSE DESK	34
	35 J-I	BOX: 152 GI BOOM	E	20 A	1					360	1,000	1	20 A	R	REC: 132 ICE MAKER	36
	37 J-I	BOX: 152 GI BOOM	E	20 A	1	360	1,000					1	20 A	R	REC: 132 REFRIGERATOR	38
	39 RE	EC: 154 DRYING CABINET	R	20 A	1			1,000	1,000			1	20 A	R	REC: 135 ICE	40
	41 RE	EC: 153, 155	R	20 A	1					360	720	1	20 A	R	REC: 122 REFRIGERATOR	42
	43 RE	EC: 155 MEDIVATOR	R	20 A	1	1,000	360					1	20 A	R	REC: 122 WRKSTN	44
	45 RE	EC: 156	R	20 A	1			1,080	720			1	20 A	R	REC: 122 REFRIGERATOR	46
	47 RE	EC: 156 ENDO CART	R	20 A	1					360	1,800	1	30 A	R	REC: 108 RACK UPS	48
	49 J-I	BOX: 156 GI BOOM	E	20 A	1	360	1,800					1	30 A	R	REC: 108 RACK UPS	50
	51 J-I	BOX: 156 GI BOOM	E	20 A	1			360	360			1	20 A	R	REC: 108	52
	53 J-I	BOX: 156 GI BOOM	E	20 A	1					360	360	1	20 A	R	REC: 108	54
	55 J-I	BOX: 105 FURN FEED	R	20 A	1	720	1,080					1	20 A	R	REC: 102, 103, 104	56
	57 J-I	BOX: 105 FURN FEED	R	20 A	1			720	180			1	20 A	R	REC: 129	58
	59 J-I	BOX: 105 FURN FEED	R	20 A	1					720	540	1	20 A	R	REC: 161, 163, 165	60
7	61 RE	EC: 140 CRASH CART	R	20 A	1	180	1,000					1	20 A	R	REC: 155 MEDIVATOR	62
	63 J-I	BOX: STRYKER BOX 152	E	20 A	1			600	1,000			1	20 A	R	REC: 118 REFRIGERATOR	64
7	65 J-I	BOX: STRYKER BOX 156	E	20 A	1					600	1,000		20 A		REC: 137 FREEZER REC: SCOPE 154 CABINET	66
		URGE PROTECTION		30 A	3	0	1,000	0			(		20 A	سيس	REC: SCOPE 154 CABINET	68
	71 DE	EVICE (SPD)			-					0		1			BUSSED SPACE	72
					al Load: I Amps:		20 VA 0 A	13,68 11	80 VA 4 A	14,58 123				1	1	
		Load Classification		Con	nected L	oad	Der	mand Fa	ctor	NEC I	Demand	Load	Phase	Balance	Panel Totals	
L	Lightin	*			0 VA			0.00%			0 VA					
С	Contin		4 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-	0 VA			0.00%		-	0 VA			% A-B	Connected Load (VA): 4	
R	lo	tal Receptacle Load	1st 10,000 VA	1	10,000 VA	4		100%		1	0,000 VA	4	94	% B-C	NEC Demand Load (VA): 2	17,898 V

50%

0.00%

80.00%

0.00%

0.00%

15,210 VA

0 VA

0 VA

2,688 VA

0 VA

0 VA

94 % C-A

Connected Load (A): 122 A

**NEC Demand Load (A):** 77 A

Spare Capacity (A): 73 A

Spare Capacity (%): 48

30,420 VA

0 VA

3,360 VA

0 VA

Remaining Largest Motor

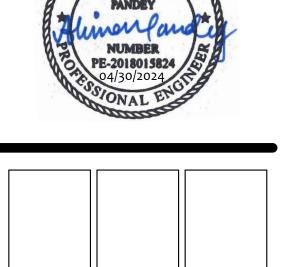
40,420 VA

Total Motor Load

(# of...

LC Load Center

CONSTRUCTION



BOLAND ARCHITECTS

ACI/Boland, Inc. Kansas City | St. Louis 1710 Wyandotte Kansas City, MO 64108 T: 816.763.9600 Licensee's Certificate of Authority Number:

Missouri: #000958

**CIVIL CONSULTANT** 

7101 College Blvd. Ste. 400 Overland Park, KS 66210 913.663.1900

STRUCTURAL CONSULTANT

Bob D. Campbell & Co. 4338 Belleview Kansas City, MO 64111 816.531.4144

**MEP CONSULTANT** 

BranchPattern 1508 Grand Boulevard Kansas City, MO 64108 913.951.8311

> Summit Lee's Surgery Center or Le 1950 SE Shenandoa Lee's Summit, MO 6

Checked By

Drawn By

2/8/2023 3-22030

ΑE

JB, AP

ADDENDUM #2 4 10/5/23 ASI #1

8 2/7/24 ASI#4 ASI#6 9 4/29/24

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OR#1 BOOM 1: RCPT CKT 1

OR#1 BOOM 1: RCPT CKT 3

OR#1 STRYKER BOX

REC: OR#1 ROBOT

REC: OR#1 ROBOT

REC: OR#1 INTEGRATION..

**Panel Totals** 

OR#1 BOOM 1: RCPT CKT 2

OR#1 BOOM 1: RCPT CKT 4

OR#1 STRYKER BOX

REC: OR#1 ROBOT

REC: OR#1 ROBOT

REC: OR#1 INTEGRATION..

**Panel Totals** 

Total Conn. Load: 5,360 VA

Total Est. Demand: 5,260 VA

Spare Capacity: 19 A

K.A.I.C. Rating: 10

Total Conn.: 11 A Total Est. Demand: 11 A

Spare Capacity: 19 A

Total Conn.: 11 A Total Est. Demand: 11 A

OR#1 BOOM 2: CTRLS & BRAKE

OR#1 BOOM 2: DISPLAY MONITOR 6

12

14

16

Total Conn. Load: 5,040 VA

Total Est. Demand: 5,040 VA

Total Est. Demand: 11 A

K.A.I.C. Rating: 10

Mains Type: MCB

Bus Rating: 30 A

MCB Rating: 30 A

Spare Capacity: 20 A

Total Conn.: 11 A

OR#1 BOOM 1: DISPLAY MONITOR

12

14

OR#1 BOOM 1: CTRLS & BRAKE

Volts: 480V PRI. - 120V SEC.

360 VA | 180 VA |

0 VA | 360 VA

2,520 VA

11 A

Volts: 480V PRI. - 120V SEC.

540 VA | 360 VA |

360 VA | 360 VA

500 VA | 180 VA |

2,660 VA

11 A

Demand Factor Estimated Demand

99 % B-A

0 VA | 360 VA | 1 | 20 A

4,860 VA

400 VA

100 % B-A

**Estimated Demand** 

5,040 VA

20 A

20 A

20 A

Phases:

Transformer Size: 10 kVA

540 VA | 360 VA

360 VA 360 VA

2,520 VA

11 A

100 % A-B

**Demand Factor** 

100.00%

ISOLATION PANELBOARDS ARE FITTED WITH (16) 2-POLE BREAKERS, NOT THE 1-POLE BREAKERS SHOWN ON THIS SCHEDULE. BRANCH CIRCUIT VOLTAGE IS 120V LINE-TO-LINE.

Phases:

Transformer Size: 10 kVA

1 360 VA 360 VA

540 VA | 360 VA

540 VA | 360 VA |

0 VA | 180 VA

2,700 VA

11 A

99 % A-B

100.00%

80.00%

ISOLATION PANELBOARDS ARE FITTED WITH (16) 2-POLE BREAKERS, NOT THE 1-POLE BREAKERS SHOWN ON THIS SCHEDULE. BRANCH CIRCUIT VOLTAGE IS 120V LINE-TO-LINE.

Wires: 3

1 0 VA 180 VA

20 A

Total Load:

Total Amps:

Phase Balance

Connected Load

5,040 VA

20 A

Total Amps:

Phase Balance

Connected Load

4,860 VA

500 VA

THIS SCHEDULE REPRESENTS ONE SIDE OF A DUPLEX ISOLATION PANELBOARD. "OR1A" IS THE OTHER SIDE.

THIS SCHEDULE REPRESENTS ONE SIDE OF A DUPLEX ISOLATION PANELBOARD. "OR1B" IS THE OTHER SIDE.

Wires: 3

CONSTRUCTION

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Job Number Drawn By Checked By

3-22030

Revision

2/8/2023

ΑE

JB, AP

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ELECTRICAL SCHEDULES

**Isolation Panel: OR3A** Location: OR 3 185 Volts: 480V PRI. - 120V SEC. K.A.I.C. Rating: 10 Supply From: CRH1 Phases: Mains Type: MCB Bus Rating: 30 A Mounting: Surface Wires: 3 Enclosure: Type 1 Transformer Size: 10 kVA MCB Rating: 30 A Circuit Description Circuit Description 1 REC: OR#3 SOUTHWEST OR#3 BOOM 1: RCPT CKT 1 3 REC: OR#3 WEST OR#3 BOOM 1: RCPT CKT 3 5 REC: OR#3 NORTH OR#3 BOOM 1: DISPLAY MONITOR 20 A 7 REC: OR#3 EAST & CLOCK OR#3 BOOM 1: CTRLS & BRAKE 20 A 9 REC: OR#3 SOUTHEAST 20 A OR#3 STRYKER BOX 11 REC: OR#3 SOUTH 20 A REC: OR#3 ROBOT 12 360 VA | 180 VA | 13 SPARE 20 A 0 VA 20 A 14 REC: OR#3 ROBOT 15 SPARE 20 A 20 A REC: OR#3 INTEGRATION. 16 0 VA | 360 VA **Total Load:** 2,520 VA 2,520 VA Total Amps: 11 A 11 A 0 % B-A 0 % C-A Phase Balance **Load Classification** Connected Load Demand Factor **Estimated Demand** Panel Totals Continuous Total Conn. Load: 5,040 VA Total Est. Demand: 5,040 VA Receptacle 5,040 VA 5,040 VA 100.00% Motor Total Conn.: 11 A Total Est. Demand: 11 A Largest Motor Spare Capacity: 20 A Equipment Appliance ISOLATION PANELBOARDS ARE FITTED WITH (16) 2-POLE BREAKERS, NOT THE 1-POLE BREAKERS SHOWN ON THIS SCHEDULE. BRANCH CIRCUIT VOLTAGE IS 120V LINE-TO-LINE. **Isolation Panel: OR3B** Location: OR 3 185 K.A.I.C. Rating: 10 Volts: 480V PRI. - 120V SEC. Supply From: CRH2 Mains Type: MCB Wires: 3 Bus Rating: 30 A Mounting: Surface Enclosure: Type 1 Transformer Size: 10 kVA MCB Rating: 30 A

Circuit Description Circuit Description 1 REC: OR#3 EAST 360 VA 360 VA 20 A OR#3 BOOM 1: RCPT CKT 2 3 REC: OR#3 SOUTH 20 A 20 A OR#3 BOOM 1: RCPT CKT 4 5 REC: OR#3 ENDO CART 20 A 7 REC: OR#3 WEST 20 A 20 A OR#3 STRYKER BOX 500 VA | 180 VA | 20 A REC: OR#3 ROBOT 0 VA | 360 VA | 20 A REC: OR#3 INTEGRATION... 2,660 VA 2,700 VA Total Amps: 11 A 11 A 0 % B-A 0 % C-A Phase Balance

BASIS OF DESIGN IS BENDER "MIX" SERIES.

OR#3 BOOM 2: DISPLAY MONITOR 6 12 14 16

> **Isolation Panel: OR2A** Location: OR 2 183 K.A.I.C. Rating: 10 Volts: 480V PRI. - 120V SEC. Supply From: CRH1 Phases: 1 Mains Type: MCB Mounting: Surface Wires: 3 Bus Rating: 30 A Enclosure: Type 1 MCB Rating: 30 A Transformer Size: 10 kVA Circuit Description 1 REC: OR#2 SOUTHWEST 1 360 VA 360 VA OR#2 BOOM 1: RCPT CKT 1 3 REC: OR#2 WEST OR#2 BOOM 1: RCPT CKT 3 5 REC: OR#2 NORTH OR#2 BOOM 1: DISPLAY MONITOR 540 VA | 360 VA | 7 REC: OR#2 EAST & CLOCK OR#2 BOOM 1: CTRLS & BRAKE 9 REC: OR#2 SOUTHEAST OR#2 STRYKER BOX 360 VA | 360 VA 11 REC: OR#2 SOUTH REC: OR#2 ROBOT 360 VA | 180 VA | 13 SPARE 20 A REC: OR#2 ROBOT 1 0 VA 180 VA 1 20 A 15 SPARE 0 VA | 360 VA | 1 | 20 A | REC: OR#2 INTEGRATION.. --Total Load: 2,520 VA 2,520 VA 11 A Total Amps: 11 A 0 % A-B 100 % C-A Phase Balance **Load Classification Estimated Demand Panel Totals** Demand Factor Connected Load Total Conn. Load: 5,040 VA Continuous Total Est. Demand: 5,040 VA Receptacle 5,040 VA 100.00% 5,040 VA Motor Total Conn.: 11 A Total Est. Demand: 11 A Largest Motor Equipment Spare Capacity: 20 A THIS SCHEDULE REPRESENTS ONE SIDE OF A DUPLEX ISOLATION PANELBOARD. "OR2B" IS THE OTHER SIDE. ISOLATION PANELBOARDS ARE FITTED WITH (16) 2-POLE BREAKERS, NOT THE 1-POLE BREAKERS SHOWN ON THIS SCHEDULE. BRANCH CIRCUIT VOLTAGE IS 120V LINE-TO-LINE. BASIS OF DESIGN IS BENDER "MIX" SERIES. **Isolation Panel: OR2B**

**Isolation Panel: OR1A** 

Circuit Description

**Load Classification** 

1 REC: OR#1 SOUTHWEST

7 REC: OR#1 EAST & CLOCK

9 REC: OR#1 SOUTHEAST

3 REC: OR#1 WEST

5 REC: OR#1 NORTH

11 REC: OR#1 SOUTH

Continuous

Receptacle

Largest Motor

BASIS OF DESIGN IS BENDER "MIX" SERIES.

**Isolation Panel: OR1B** 

Circuit Description

**Load Classification** 

Location: OR 1 181

Supply From: CRH2

Mounting: Surface

Enclosure: Type 1

Equipment

1 REC: OR#1 EAST

7 REC: OR#1 WEST

Continuous

Receptacle

Largest Motor

BASIS OF DESIGN IS BENDER "MIX" SERIES.

Location: OR 2 183

Motor

Largest Motor

Equipment

Equipment

Appliance

3 REC: OR#1 SOUTH

5 REC: OR#1 ENDO CART

Appliance

Motor

13 SPARE

15 SPARE

Location: OR 1 181

Supply From: CRH1

Mounting: Surface

Enclosure: Type 1

											9	
	Supply From: CRH Mounting: Surfa				Phases: Wires:						ype: MCB ting: 30 A	
	Enclosure: Type				Transformer Size:	10 kVA					ting: 30 A	
СКТ	Circuit Description	Load Class	Trip	Poles	Α		C	Poles	Trip	Load Class	Circuit Description	СКТ
1	REC: OR#2 EAST	R	20 A	1	360 VA 360 VA			1	20 A	R	OR#2 BOOM 1: RCPT CKT 2	2
3	REC: OR#2 SOUTH	R	20 A	1		540 VA	360 VA	1	20 A	R	OR#2 BOOM 1: RCPT CKT 4	4
5	REC: OR#2 ENDO CART	R	20 A	1	540 VA 360 VA			1	20 A	R	OR#2 BOOM 2: DISPLAY MONITOR	6
7	REC: OR#2 WEST	R	20 A	1		360 VA	360 VA	1	20 A	R	OR#2 BOOM 2: CTRLS & BRAKE	8
9	REC: OR#2 NORTH	NO BOOK	20 A	1	540 VA 360 VA			1	20 A	R	OR#2 STRYKER BOX	10
11	J-BOX: STRYKER BOX	E	20 A	1		500 VA	180 VA	1	20 A	R	REC: OR#2 ROBOT	12
13	SPARE	حصيص	20 A	1	0 VA 180 VA			1	20 A	R	REC: OR#2 ROBOT	14
15	SPARE		20 A	1		0 VA	360 VA	1	20 A	R	REC: OR#2 INTEGRATION	16

Volts: 480V PRI. - 120V SEC.

~ <sup>9</sup> ~	REC: OR#2 NORTH		20 A	1	540 VA	360 VA			1	20 A	R	OR#2 STRYI	KER BOX	10
11	J-BOX: STRYKER BOX	E	20 A	1			500 VA	180 VA	1	20 A	R	REC: OR#2 I	ROBOT	12
13	SPARE	حصيصر	20 A	1	0 VA	180 VA			1	20 A	R	REC: OR#2 I	ROBOT	14
15	SPARE		20 A	1			0 VA	360 VA	1	20 A	R	REC: OR#2 I	NTEGRATION	16
			То	tal Load:	2,70	0 VA	2,66	AV C						
			Tot	al Amps:	11	Α	11	Α						
			Phase	Balance	0	% A-B	99	% C-A						
	Load Classification		Connect	ed Load	De	mand Fa	ctor	Estimate	ed Demar	nd		Panel	Totals	
L	Lighting													
С	Continuous										Total	Conn. Load:	5,360 VA	
R	Receptacle		4,860	) VA		100.00%		4,8	60 VA		Total E	Est. Demand:	5,260 VA	

80.00%

THIS SCHEDULE REPRESENTS ONE SIDE OF A DUPLEX ISOLATION PANELBOARD. "OR2A" IS THE OTHER SIDE. ISOLATION PANELBOARDS ARE FITTED WITH (16) 2-POLE BREAKERS, NOT THE 1-POLE BREAKERS SHOWN ON THIS SCHEDULE. BRANCH CIRCUIT VOLTAGE IS 120V LINE-TO-LINE. BASIS OF DESIGN IS BENDER "MIX" SERIES.

500 VA

THIS SCHEDULE REPRESENTS ONE SIDE OF A DUPLEX ISOLATION PANELBOARD. "OR3B" IS THE OTHER SIDE.

BASIS OF DESIGN IS BENDER "MIX" SERIES.

		Pliase Dalalice	0 70 D-A	0 76 C-A		
	Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
L	Lighting					
С	Continuous				Total Conn. Load:	5,360 VA
R	Receptacle	4,860 VA	100.00%	4,860 VA	Total Est. Demand:	5,260 VA
М	Motor				Total Conn.:	11 A
LM	Largest Motor				Total Est. Demand:	11 A
E	Equipment	500 VA	80.00%	400 VA	Spare Capacity:	19 A
Λ.	Ameliana					

THIS SCHEDULE REPRESENTS ONE SIDE OF A DUPLEX ISOLATION PANELBOARD. "OR3A" IS THE OTHER SIDE. ISOLATION PANELBOARDS ARE FITTED WITH (16) 2-POLE BREAKERS, NOT THE 1-POLE BREAKERS SHOWN ON THIS SCHEDULE. BRANCH CIRCUIT VOLTAGE IS 120V LINE-TO-LINE.

Phase Created: New Construction LTG: OR#1

CATALOG NUMBER: D277-48S120/277-A2005U-C2007U-IBS

SPARE

12 SPARE

Inverter: LI-1

Supply From: CRH1

Mounting: FLOOR

Enclosure: TYPE 1

Location: EM ELEC ROOM 196

**RELAY NO. Circuit Description** Classification 456 VA LTG: OR#2 LTG: OR#3 456 VA 0 VA SPARE 20 A 0 VA LTG: GI PROCEDURE SPARE 20 A 0 VA J-BOX: OR#1 BOOM EXAM LIGHT 300 VA J-BOX: OR#2 BOOM EXAM LIGHT 300 VA 120V J-BOX: OR#3 BOOM EXAM LIGHT 300 VA 120V

Input Voltage: 277V SINGLE

Phases: 1

Wires: 2

Output Voltage: DUAL OUTPUT 277V/120V

20 A 1 0 VA **Panel Totals** Total Connected Load (VA): 2,608 VA

Spare Capacity (VA): 1,540 VA

**Total Demand Load @ 1.25 (VA):** 3,260 VA

20 A 1

0 VA

120V

Design Size: 4,800 VA

Run Time (Mins): 90

BASIS OF DESIGN IS DUAL-LITE 'LSN D-SERIES' SINGLE-PHASE, DUAL-VOLTAGE-OUTPUT LIGHTING INVERTER, WITH INTERNAL BYPASS.

ARRANGE OUTPUT BREAKERS WITH (7) 277V BREAKERS IN POSITION 1-7, AND (5) 120V BREAKERS IN POSITION 8-12.

**SECURITY** 

CAMERA

TELECOM

TELECOM

WALL

WALL

WALL

270 SURVEILLANCE CAMERA - EXTERIOR 270 DEGREE

1-PORT TELECOM OUTLET

3-PORT TELECOM OUTLET

PROJECT NUMBER: 1201002 BranchPattern BETTER BUILT ENVIRONMENTS

SYMBOL TYPES **ABBREVIATIONS GENERAL NOTES** NOTE: THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO AC ABOVE COUNTER AFF ABOVE FINISHED FLOOR COMMENCEMENT OF WORK. REFER TO ALL ARCHITECTURAL/ELECTRICAL/STRUCTURAL/CIVIL AND MECHANICAL DRAWINGS FOR **TELECOM SYMBOLS** ADDITIONAL REQUIREMENTS AND INFORMATION. CFCI CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING CFOI CONTRACTOR FURNISHED AND OWNER INSTALLED DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TELECOM DATA DEVICE MOUNTED ON CEILING. XX INDICATES TYPE, XX TELECOM DATA DEVICE MOUNTED ON WALL. XX INDICATES TYPE, TELECOM DATA DEVICE MOUNTED ON FLOOR. XX INDICATES TYPE, TELECOM ANALOG DEVICE MOUNTED ON WALL. XX INDICATES TYPE, MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED. REFER TO SCHEDULE BELOW FOR DEVICE INFORMATION. (E) EXISTING WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND **ENTRANCE FACILITY** NATIONAL CODES AND ORDINANCES. TELECOM DATA/ANALOG COMBINATION DEVICE MOUNTED ON WALL. ER EQUIPMENT ROOM PROVIDE PERMITS AND INSPECTIONS REQUIRED. TELECOM ANALOG DEVICE MOUNTED ON FLOOR, XX INDICATES TYPE. TELECOM ANALOG DEVICE MOUNTED ON CEILING, XX INDICATES TELECOM DATA/ANALOG COMBINATION DEVICE MOUNTED ON FLOOP SYSTEM SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE REFER TO SCHEDULE BELOW FOR DEVICE INFORMATION. TYPE, REFER TO SCHEDULE BELOW FOR DEVICE INFORMATION. XX INDICATES TYPE, REFER TO SCHEDULE BELOW FOR DEVICE XX INDICATES TYPE, REFER TO SCHEDULE BELOW FOR DEVICE GND GROUND CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER. INFORMATION. INFORMATION. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE IG ISOLATED GROUND ACCEPTED AS REASON TO SUBSa TITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS. TELECOM DATA/ANALOG COMBINATION DEVICE MOUNTED ON ALL SYSTEMS SHALL BE COMPLETE AND FULLY OPERATIONAL. CEILING. XX INDICATES TYPE, REFER TO SCHEDULE BELOW FOR LAN LOCAL AREA NETWORK IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE DEVICE INFORMATION. LC LUCENT CONNECTOR ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN. PROVIDE RECORD DRAWINGS TO THE ARCHITECT/ENGINEER. DRAWINGS SHALL INCLUDE ALL ADDENDUM **AUDIOVISUAL SYMBOLS** Mbps MEGABITS PER SECOND ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC. MM MULTIMODE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS AV DEVICE MOUNTED ON FLOUR. AA INDICATES SCHEDULE BELOW FOR DEVICE INFORMATION. AV DEVICE MOUNTED ON FLOOR. XX INDICATES TYPE, REFER TO AV DEVICE MOUNTED ON WALL. XX INDICATES TYPE, REFER TO AV DEVICE MOUNTED ON CEILING. XX INDICATES TYPE, REFER TO AV CAMERA MOUNTED ON WALL. XX INDICATES TYPE, REFER TO OFCI OWNER FURNISHED AND CONTRACTOR INSTALLED SCHEDULE BELOW FOR DEVICE INFORMATION. SCHEDULE BELOW FOR DEVICE INFORMATION. SCHEDULE BELOW FOR DEVICE INFORMATION. OFOI OWNER FURNISHED AND OWNER INSTALLED VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS OSP OUTSIDE CABLE PLANT PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMERS PADS, SAW CUTTING AND PATCHING. AV CAMERA MOUNTED ON CEILING, XX INDICATES TYPE, REFER TO PBB PRIMARY BONDING BUSBAR CONCRETE PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH SCHEDULE BELOW FOR DEVICE INFORMATION. EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND PoE POWER OVER ETHERNET PoE+ POWER OVER ETHERNET PLUS **SECURITY SYMBOLS** THE DATA GIVEN ON THE DRAWING IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATION, MEASUREMENTS, LEVELS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT THE WORK RU RACK UNIT (1.75") SECURITY DEVICE MOUNTED ON CEILING. XX INDICATES TYPE, REFER (XX) TO THE ACTUAL CONDITIONS AT THE PROJECT SITE. SECURITY DEVICE MOUNTED ON WALL. XX INDICATES TYPE, REFER SECURITY DEVICE MOUNTED ON FLOOR. XX INDICATES TYPE, REFER SECURITY CAMERA MOUNTED ON WALL. XX INDICATES TYPE, REFER QTY QUANTITY VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN TO SCHEDULE BELOW FOR DEVICE INFORMATION. ROUTE ALL WIRE AND CONDUIT CONCEALED, FOR ALL SYSTEMS, UNLESS NOTED OTHERWISE. SECURITY CAMERA MOUNTED ON CEILING, XX INDICATES TYPE. SBB SECONDARY BONDING BUSBAR ACCURATE RECORDS OF WORK MODIFICATIONS (AS-BUILTS) SHALL BE KEPT DAILY. SEF SERVICE ENTRANCE FACILITY THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL ENGINEERING REQUIREMENTS. THE REFER TO SCHEDULE BELOW FOR DEVICE INFORMATION. OWNERS DESIGN CRITERIA. UTILITY COMPANY REQUIREMENTS. APPLICABLE INDUSTRY STANDARDS OF GOOD SM SINGLE MODE **NURSE CALL SYMBOLS** PRACTICE AND SAFETY AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION PRODUCT APPLICATION AND INSTALLATION. TYP TYPICAL VALIDATE ALL QUANTITIES. DEVICES SHOWN ON PLANS TAKE PRECEDENCE OVER SCHEDULE QUANTITIES. NURSE CALL DEVICE MOUNTED ON WALL. XX INDICATES TYPE, REFER NURSE CALL DEVICE MOUNTED ON FLOOR. XX INDICATES TYPE NURSE CALL DEVICE MOUNTED ON CEILING. XX INDICATES TYPE, CARD READERS MUST BE WITHIN 6" OF DOOR FRAME, UNO. TO SCHEDULE BELOW FOR DEVICE INFORMATION. REFER TO SCHEDULE BELOW FOR DEVICE INFORMATION. REFER TO SCHEDULE BELOW FOR DEVICE INFORMATION. ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS INDICATED ON UG UNDERGROUND UNO UNLESS OTHERWISE NOTED TECHNOLOGY DRAWINGS. DIMENSION TO CENTERLINE UNO. REFER TO ARCHITECTURAL DRAWINGS FOR UPS UNINTERRUPTIBLE POWER SUPPLY STANDARD DEVICE MOUNTING HEIGHT DETAIL. UTP UNSHIELDED TWISTED PAIR **DESCRIPTION** MOUNTING **INFRASTRUCTURE CONDUIT** REFERENCE COUNT SYSTEM TYPE INFRASTRUCTURE BOX INTEGRAL TO LOUNDSPEAKER BACKCAN (PROVIDED BY AV GENERAL INFRASTRUCTURE NOTES LOUDSPEAKER FOR ROOM SYSTEM CEILING AUDIOVISUAL CEILING NA, PLENUM CABLING W/O WITHOUT CONTRACTOR) WAO WORK AREA OUTLET CEILING 4-11/16" SQUARE BACK BOX WITH BLANK COVER, 18" ABOVE CEILING AUDIOVISUAL CEILING LOUDSPEAKER FOR ROOM SYSTEM, HARD CEILING WAP WIRELESS ACCESS POINT HÓMERUN TO ROOM AV RÁCK IF THE ENCLOSURE, BOXES AND CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER WITH 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" DATA DEVICE 1-PORT TELECOM OUTLET IN CEILING FOR WIRELESS ACCESS POINT (1) 1" C TO ACCESSIBLE CEILING SPACE XC CROSS-CONNECT THE REQUIRED KNOCKOUTS FOR THE SPECIFIED CONDUIT, FIELD CUT ALL REQUIRED KNOCKOUTS TO CEILING DEEP BACK BOX TERMINATE THE QUANTITY AND SIZE OF THE SPECIFIED CONDUITS. 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" MAINTAIN MAXIMUM SEPARATION BETWEEN AV SYSTEM CONDUIT AND ALL POWER CONDUIT DATA DEVICE WALL 2-PORT TELECOM OUTLET 1' - 6" AFF (1) 1" C TO ACCESSIBLE CEILING SPACE DEEP BACK BOX INSTALL NYLON PULL STRINGS IN ALL CONDUIT. 4'- 0" AFF OR MATCH 4-SQUARE WITH 1 GANG MUD-RING, FLUSH MOUNTED, 2-1/8" DEEP INSTALL ALL CONDUIT IN A CONCEALED FASHION. SURFACE MOUNTED CONDUIT WILL NOT BE ACCEPTED DATA DEVICE (1) 1" C TO ACCESSIBLE CEILING SPACE WALL TC 1-PORT DATA OUTLET FOR TIME CLOCK ELECTRICAL OUTLETS BACK BOX UNLESS SPECIFICALLY IDENTIFIED IN THE DRAWINGS. **EQUIPMENT LEGEND** 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" COVER ALL INSTALLED JUNCTION BOXES AND MUD RINGS WITH BLANK COVER PLATES. DATA DEVICE 1-PORT COAXIAL OUTLET FOR DISPLAY 4' - 0" AFF (1) 1" C TO ACCESSIBLE CEILING SPACE WALL ALL CONDUIT SHALL BE A MINIMUM DIAMETER OF 3/4" UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE THIN-WALL EMT UNLESS NOTED OTHERWISE. CONDUIT SIZES AND TERMINATION SHALL 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" (1) 1" C TO ACCESSIBLE CEILING SPACE

23 ATA DEVICE WALL WP 1-PORT TELECOM OUTLET FOR WALL MOUNT PHONE FLAT PANEL DISPLAY, REFER BE AS NOTED ON THE TECHNOLOGY INFRASTRUCTURE DRAWINGS. SURFACE MOUNT, COMPATIBLE WITH SINGLE AND DUAL GANG BACK (1) 1" C TO ACCESSIBLE CEILING SPACE TO DISPLAY TABLE BELOW FOR MAXIMUM OF TWO 90-DEGREE BENDS OR 50 LINEAR FEET BETWEEN PULL BOXES. ADDITIONAL PULL BOXES CORRIDOR LIGHT ANNOTATION DESCRIPTIONS. NURSE CALL CEILING CL CEILING NOT SHOWN ON DRAWINGS MAY BE REQUIRED. CONDUIT ROUTING IS AT THE ELECTRICAL CONTRACTOR'S DISCRETION. SURFACE MOUNT, COMPATIBLE WITH SINGLE AND DUAL GANG BACK (1) 1" C TO ACCESSIBLE CEILING SPACE PROJECTION SCREEN, REFER MOUNT BOXES ON WALLS AT THE HEIGHTS NOTED ON THE TECHNOLOGY INFRASTRUCTURE DRAWINGS IF NURSE CALL CEILING CEILING CZ ZONE CORRIDOR LIGHT TO DISPLAY TABLE BELOW FOR ELECTRICAL BOXES ARE AT SIMILAR BUT DIFFERENT HEIGHTS, MOUNT BOXES TO MATCH ELECTRICAL BOX ANNOTATION DESCRIPTIONS. 4-11/16" SQUARE BOX, 2-1/2" DEEP, WITH 13/16" DEEP 1-DEVICE MUD HEIGHTS, (18" AFF OR 46" AFF, ETC.). DIMENSIONS SHOWN ON THESE DRAWINGS ARE TO THE CENTER OF BOX NURSE CALL CEILING DD DOMELESS DUTY CEILING (1) 1" C TO ACCESSIBLE CEILING SPACE RING, FLUSH MOUNTED UNLESS OTHERWISE NOTED. IF MATCHING HEIGHTS WITH ELEC DOES NOT FOLLOW ADA OR OTHER **3** \_\_\_\_\_ DESKTOP MS AUDIO VISUAL NURSE MASTER STATION DESKTOP N/A - DESKTOP MOUNT LADDER RACK APPLICABLE CODES OR STANDARDS, SUBMIT A RFI FOR CLARIFICATION. N/A - DESKTOP MOUNT 4-11/16" SQUARE BOX, 3-1/2" DEEP, WITH 13/16" DEEP 1-DEVICE MUD 1" C TO NEAREST ACCESSIBLE CEILING PROVIDE NYLON BUSHINGS ON ALL CONDUIT STUBS AND NON-TERMINATED CONDUIT ENDS. NURSE CALL 4' - 0" AFF WALL CS STAFF ASSIST CODE STATION RING, FLUSH MOUNTED SURFACE MOUNT, COMPATIBLE WITH SINGLE AND DUAL GANG BACK 1" C TO NEAREST ACCESSIBLE CEILING GENERAL AV INSTALLATION NOTES 4-POST RACK DUTY STATION NURSE CALL DS 4' - 0" AFF WALL Lydrse carring which the constant of the const INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC SURFACE MOUNT, COMPATIBLE WITH SINGLE AND DUAL GANG BACK 1" C TO NEAREST ACCESSIBLE CEILING CODES, AND INDUSTRY ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE PS SINGLE BED ENHANCED PATIENT STATION 4' - 0" AFF NURSE CALL WALL ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT. SECURITY CEILING MOTION DETECTOR 2-POST RACK ACCESS CONTROL HEADEND PANEL N/A, SURFACE MOUNT TO FIRE RATED PLYWOOD SECURITY 5' - 0" AFF WALL SECURITY DOOR POSITION SWITCH N/A. RECESS INTO TOP OF DOOR FRAME 4" FROM STRIKE SIDE. UNO (1) 3/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING WALL GENERAL GROUNDING NOTES 1) 3/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING SECURITY DOOR RELEASE BUTTON **UNDER DESK** N/A, SURFACE MOUNT TO UNDER SIDE OF DESK WALL WALL PANEL, "XX" INDICATES XX INTRUSION DETECTION HEADEND PANEL SECURITY WALL 5' - 0" AFF N/A, SURFACE MOUNT TO FIRE RATED PLYWOOD TYPE, CHECK ABBREVIATIONS ISOLATE ALL EQUIPMENT FROM CONDUIT AND BUILDING STEEL. 4-11/16" SQUARE WITH 2-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" LIST FOR TYPE. SECURITY INTRUSION DETECTION KEYPAD 4' - 0" AFF (1) 1-1/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING WALL GROUND COMMUNICATIONS SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH ANSI-TIA-EIA GROUNDING DEEP BACK BOX STANDARD AND APPLICABLE NEC REQUIREMENTS. 4-11/16" SQUARE WITH 2-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" (1) 1-1/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING SECURITY WALL DOOR INTERCOM MASTER STATION 4' - 0" AFF ALL RACKS, METALIC BACKBOARDS, CABLE TRAYS, SPLICE CASES, ETC. IN A TECHNICAL EQUIPMENT SPACE DEEP BACK BOX (EITHER RESIDING IN OR ENTERING/EXITING) SHALL BE GROUNDED TO THEIR RESPECTIVE GROUND SYSTEM N/A. SURFACE MOUNT TO UNDER SIDE OF DESK **SECURITY** LOCK DOWN BUTTON (1) 3/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING WALL USING A #6 AWG (MINIMUM) COPPER BONDING CONDUCTOR. SECURITY PANIC BUTTON N/A. SURFACE MOUNT TO UNDER SIDE OF DESK (1) 3/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING WALL PB ALL GROUND WIRES USED FOR TECHNICAL SYSTEM GROUNDING SHALL BE IDENTIFIED AT THEIR TERMINATION 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" POINTS WITH GREEN WRAP/TAPE. THESE GROUNDS SHALL BE LABELED/IDENTIFIED AS "TECHNICAL POWER SECURITY CARD READER 4' - 0" AFF (1) 3/4" C STUBBED INTO NEAREST ACCESSIBLE CEILING 12 WALL DEEP BACK BOX (1) 3/4" C DROPPED 1' INTO MULLION ROUTED VERTICALLY WITH A 4' - 0" AFF N/A, GROMMETED HOLE THROUGH MULLION SECURITY RM CARD READER, MULLION MOUNT WALL 90? BEND ATTACHED TO DECK (SEE DETAILS) RESPONSIBILITY MATRIX 4-11/16" SQUARE WITH 2-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" 4' - 0" AFF (1) 1" C STUBBED INTO ACCESSIBLE CEILING SECURITY WALL V VIDEO INTERCOM 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" SECURITY SURVEILLANCE CAMERA - INTERIOR 90 DEGREE (1) 1" C STUBBED INTO NEAREST ACCESSIBLE CEILING 12 CEILING CAMERA 4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8" **SECURITY** (1) 1" C STUBBED INTO NEAREST ACCESSIBLE CEILING 8' - 0" AFF WALL SURVEILLANCE CAMERA - EXTERIOR 90 DEGREE CAMERA

TECHNOLOGY SHEET LIST

TECHNOLOGY LEGEND FIRST FLOOR TECHNOLOGY PLAN - OVERALL **TECHNOLOGY DETAILS** NURSE CALL DETAILS

TECHNOLOGY SIGNAL FLOWS

(1) 1" C STUBBED INTO NEAREST ACCESSIBLE CEILING

(1) 1" C TO ACCESSIBLE CEILING SPACE

(1) 1" C TO ACCESSIBLE CEILING SPACE

4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8"

4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8"

4-11/16" SQUARE WITH 1-DEVICE MUD RING, FLUSH MOUNTED, 2-1/8"

8' - 0" AFF

1' - 6" AFF

1' - 6" AFF

DEEP BACK BOX

DEEP BACK BOX

SYSTEM	SCOPE DESCRIPTION	SPECIFICATION SECTION	FURNISHED BY	INSTALLED BY
ALL LOW-VOLTAGE SYSTEMS	BACKBOXES AND CONDUIT	DIVISION 26	CONTRACTOR	CONTRACTOR
	GROUNDING BUSBAR	DIVISION 26	CONTRACTOR	CONTRACTOR
	GROUND AND BONDING TO EQUIPMENT	N/A	OWNER VENDOR	OWNER VENDOR
	DISCONTINUOUS PATHWAYS (J-HOOKS, RINGS)	N/A	OWNER VENDOR	OWNER VENDOR
	CONTINUOUS PATHWAYS (TRAY)	N/A	N/A	NOT IN CONTRACT
COMMUNICATIONS	CABLING	N/A	OWNER VENDOR	OWNER VENDOR
	FACEPLATES, CABLE TERMINATIONS AND TESTING	N/A	OWNER VENDOR	OWNER VENDOR
	RACKS, ENCLOSURES, LADDER TRAY	N/A	OWNER VENDOR	OWNER VENDOR
NETWORK ACTIVE DEVICES	WIRELESS ACCESS POINTS (WAPS)	N/A	OWNER	OWNER VENDOR
	NETWORK SWITCHES	N/A	OWNER	OWNER
	SERVERS / COMPUTERS / PHONES	N/A	OWNER	OWNER
	UPS AND PDU	N/A	OWNER	OWNER VENDOR
	CLOCKS	N/A	N/A	NOT IN CONTRACT
	MASS NOTIFICATION SYSTEM	DELEGATED	CONTRACTOR	CONTRACTOR
	DISTRIBUTED ANTENNA SYSTEM (RADIO / CELL REPEATER OR BOOSTER)	N/A	N/A	NOT IN CONTRACT
AV	CABLING, FACEPLATES, CABLE TERMINATIONS AND TESTING	N/A	OWNER VENDOR	OWNER VENDOR
	AV CONFERENCING EQUIPMENT	N/A	OWNER VENDOR	OWNER VENDOR
	OPERATING ROOM AV EQUIPMENT	N/A	OWNER VENDOR	OWNER VENDOR
	CABLE / ANTENNA TELEVISION (CATV)	N/A	OWNER VENDOR	OWNER VENDOR
	PUBLIC ADDRESS SYSTEMS	N/A	OWNER VENDOR	OWNER VENDOR
	SOUND MASKING	N/A	N/A	NOT IN CONTRACT
ELECTRONIC SECURITY	CABLING, FACEPLATES, CABLE TERMINATIONS AND TESTING	N/A	OWNER VENDOR	OWNER VENDOR
	ENCLOSURES, HOUSINGS, POWER SUPPLIES	N/A	OWNER VENDOR	OWNER VENDOR
	ACCESS CONTROL - DOOR DEVICES	N/A	OWNER VENDOR	OWNER VENDOR
	ACCESS CONTROL - CONTROLLER / SERVER	N/A	OWNER VENDOR	OWNER VENDOR
	ENTRY INTERCOM	N/A	OWNER VENDOR	OWNER VENDOR
	SURVEILLANCE - CAMERAS	N/A	OWNER VENDOR	OWNER VENDOR
	SURVEILLANCE - RECORDING / SERVERS (NVR) AND LICENSES	N/A	OWNER VENDOR	OWNER VENDOR
	INTRUSION DETECTION (MOTION, GLASS BREAK)	N/A	OWNER VENDOR	OWNER VENDOR
	EXTERIOR / SITE SECURITY	N/A	N/A	NOT IN CONTRACT
NURSE CALL	CABLING	27 52 23	CONTRACTOR	CONTRACTOR
	FACEPLATES, CABLE TERMINATIONS AND TESTING	27 52 23	CONTRACTOR	CONTRACTOR
	ENCLOSURES, HOUSINGS, POWER SUPPLIES	27 52 23	CONTRACTOR	CONTRACTOR
	DEVICES (PULL STATIONS, DOME LIGHTS)	27 52 23	CONTRACTOR	CONTRACTOR

CONSTRUCTION

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Job Number Drawn By Checked By

2/8/2023

3-22030

Author

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ASI #1

BranchPattern | PROJECT NUMBER, 1201002

KEY NOTES 🗵 (THIS SHEET . CONTRACTOR TO COORDINATE INFRASTRUCTURE FOR MED CABINET ACCESS CONTROL. BOTH UPPER CABINET DOORS SHALL BE PROTECTED WITH CARD READERS AND MAG-LOCKS. CONTRACTOR TO COORDINATE BACK BOX NEEDS FOR ACCESS CONTROL COMPONENTS TO ALLOW CARD READER ACCESS TO MED CABINETS. MED CABINET DOORS SHALL BE MONITORED

USING DPS.

- CONTRACTOR TO INSTALL (3) 4' CONDUITS WITH PULL STRING TO SERVICE PROVIDER VAULT FOR INCOMING SERVICES. REFERENCE ELECTRICAL SITE PLAN FOR CONDUIT FLOOR PENETRATION LOCATIONS. CONDUIT ROUTING TO BE DELEGATED DESIGN.
- S. CONTRACTOR TO INSTALL 4" EZPATH SYSTEM FOR IT ROOM WALL PENTRATIONS, SIZED APPROPRIATELY FOR CABLE FILL OF CABLES BEING INITIALLY INSTALLED PLUS 25% GROWTH CAPABILITY FOR FUTURE CABLING.

. CONTRACTORS TO COORDINATE DATA CABLING AND BACK BOX/CONDUIT LOCATOIN FOR BAS PANEL IN MECHANICAL ROOM.

- 5. CONTRACTOR TO PROVIDE ROOF PENETRATION FOR FUTURE DISTRIBUTED ANTENNA SYSTEM (DAS). REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION, SIZING, AND PENETRATION DETAILS.
- 5. DOOR INTERCOM SHALL NOTIFY NURSE STATION MASTER STATION FIRST, THEN RECEPTION MASTER STATION.
- DOOR INTERCOM SHALL NOTIFY RECEPTION DESK MASTER STATION FIRST, THEN NURSE STATION MASTER STATION.
- 8. DOOR INTERCOM SHALL NOTIFY RECEIVING DESK MASTER STATION FIRST, THEN RECEPTION MASTER STATION.
- . INSTALL (1) 2" CONDUIT TO COMMS #108 FOR INFRASTRUCTURE PATHWAY FOR MECH YARD CARD READER.
- 10. NETWORK INFRASTUCTURE FOR STRYKER COR LITE. CONTRACTOR TO COORDINATE CABLE ROUTING TO DEVICE.
- . APPROXIMATE LOCATION OF RAULAND BORG 5000 SERIES

TERMINAL CABINET. REFER TO MANUFACTURER SPECIFICATIONS FOR MOUNTING REQUIRMENTS. CONFIRM FINAL MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.

GENERAL NOTES (THIS SHEET

PROVIDE 3/4" FIRE-RATED PLYWOOD ON ALL WALLS WITHIN I.T. #108. PLYWOOD IS TO COVER WALL TO WALL WITH NO GAPS. PLYWOOD SHALL BE PAINTED WITH FIRE-RATED PAINT TO MATCH ROOM COLOR.

NOTE RESPONSIBILITY MATRIX FOR EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT, LISTS AS "CONTRACTOR" VS. ITEMS FOR AN OWNER-DIRECT VENDOR OUTSIDE OF THIS CONTRACT, LABEL "OWNER VENDOR", SOME OF WHICH IS SHOWN ON PLANS FOR COORDINATION. BACK BOXES AND PATHWAY IS REQUIRED UNDER THIS CONTRACT FOR ALL SHOWN EQUIPMENT, REGARDLESS OF PARTY INSTALLING THE EQUIPMENT.

CONTRACTOR TO ENLIST FIRESTOPPING AGENT TO INSTALL ALL FIRESTOPPING AND PENETRATIONS. AGENT SHALL INSTALL EZ-PATH44 FIRESTOPPING PENETRATIONS IN ALL SMOKE / FIREWALLS, MINIMUM OF TRIPLE BANK AT EACH PRIMARY PATHWAY PENTRATION AND ONE AT EACH SECONDARY PATHWAY PENETRATION. ALL OTHER NON-RATED PENETRATIONS SHALL BE NON-RATED EZ-PATH DEVICES USING SAME INSTALLATION METHODS AS RATED PENETRATIONS . COORDINATE WITH OWNER PRIOR FOR SIGN-OFF ON PENETRATION LOCATIONS AND QUANTITIES PRIOR TO INSTALLATION.

NETWORK AND DISTRIBUTION RACKS ARE SHOW FOR INFORMATION ONLY. COORDINATE FINAL RACK LAYOUT AND CONFIGURATION WITH OWNER IT AND OBTAIN SIGN-OFF PRIOR TO INSTALLATION. CONTRACTORS TO COORDINATE WITH OTHER TRADES AND OWNER FOR ALL RACK-MOUNTED EQUIPMENT AND POWER NEEDS AND INSTALL ACCORDINGLY.

CONTRACTOR TO COORDINATE WITH FINAL OR VENDOR SHOP DRAWINGS FOR LOW VOLTAGE INFRASTRUCTURE LOCATION REQUIREMENTS.

CONTRACTOR TO COORDINATE CABLE ROUTING WITH FURNITURE VENDOR.

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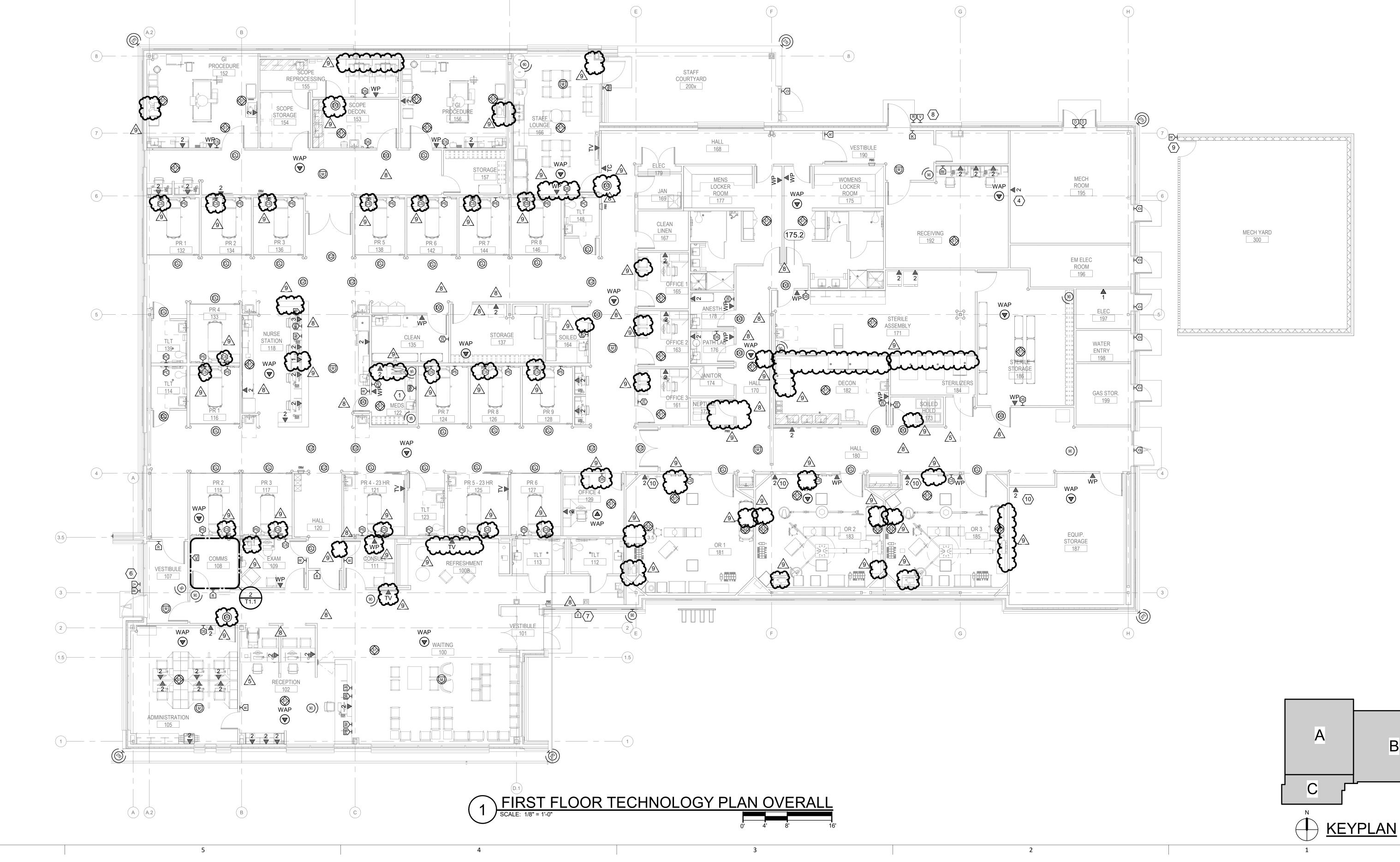
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FIRST FLOOR TECHNOLOGY PLAN - OVERALL



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ASI #4

NURSE CALL DETAILS

BranchPattern www.branchpattern.com
PROJECT NUMBER: 1201002
BETTER BUILT ENVIRONMENTS

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As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 05/13/2024

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