

**GENERAL NOTES** 

FASTENING.

EXTEND BACKING PLATE TO NEXT STUD BEYOND SIDE OF FIXTURE OR

2. PROVIDE METAL SLEEVES THROUGH WALL FINISH AT FIXTURE AND EQUIPMENT

3. FOR MECHANICAL WORK ANCHORAGE SEE

**KEYED NOTES** 

ACCESSORIES - BOTH SIDES.

MECHANICAL DRAWINGS.

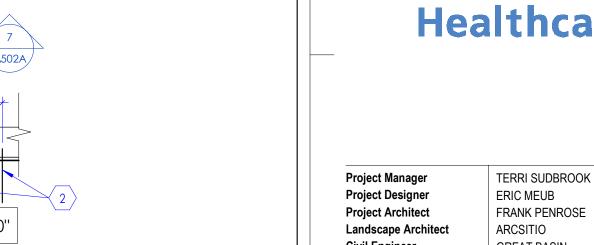


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LOGAN REGIONAL HOSPITAL **RECONFIGURATION -**SLEEP LAB 550 E 1400 N, Suite R

Logan, UT 84341

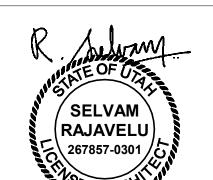




FRANK PENROSE Civil Engineer Structural Engineer **Mechanical Engineer VAN BOERUM & FRANK** Electrical Engineer Plumbing Engineer **VAN BOERUM & FRANK** Interior Designer RUBY THORP ROBERT GRIESCHE **Equipment Planner** 

MARK DATE DESCRIPTION

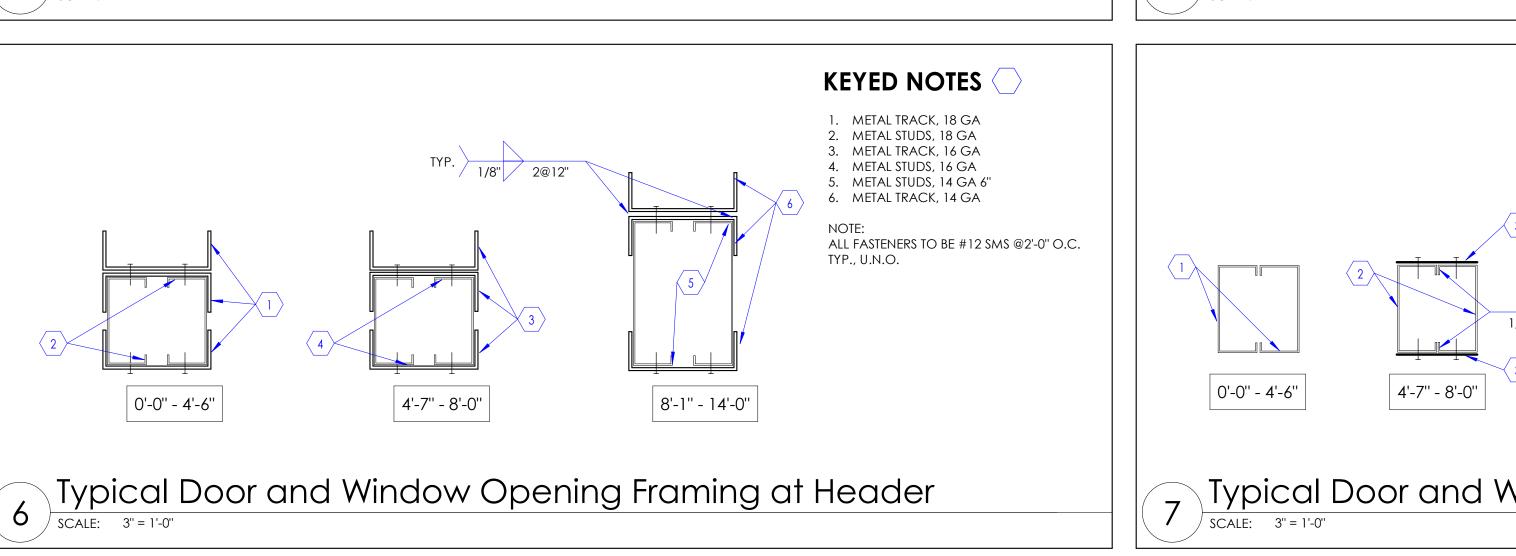
Sheet Reviewer

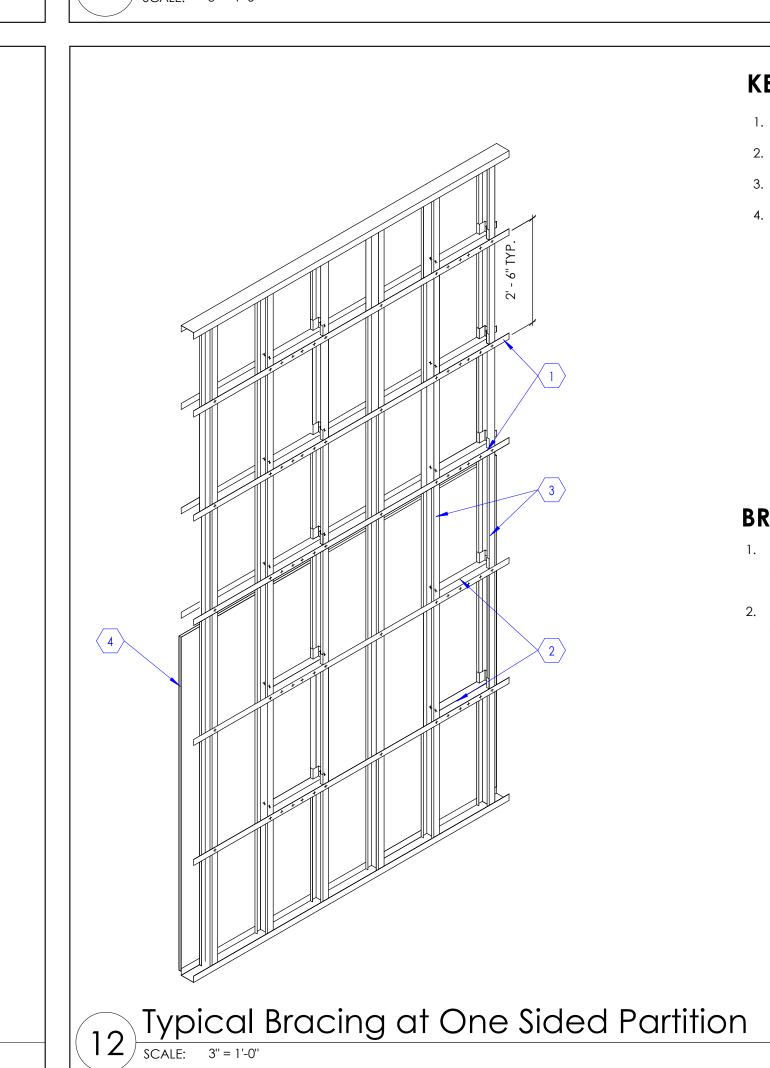


Wall Details

**A502A** 

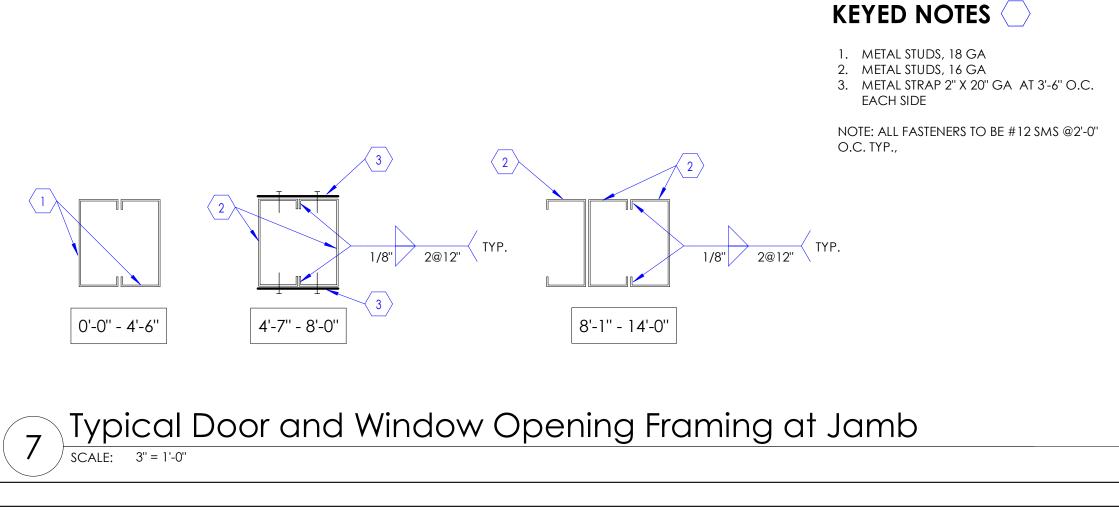
100% Construction Documents





HEAD AT SPANS < 8'-0"

Framed Opening at Jamb/Head Corner

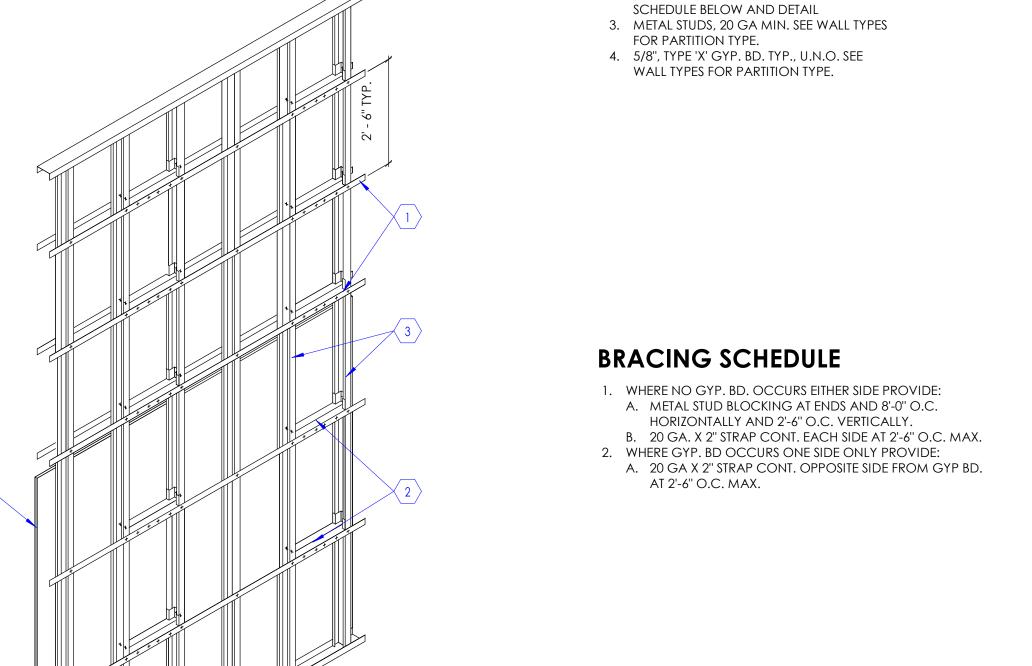


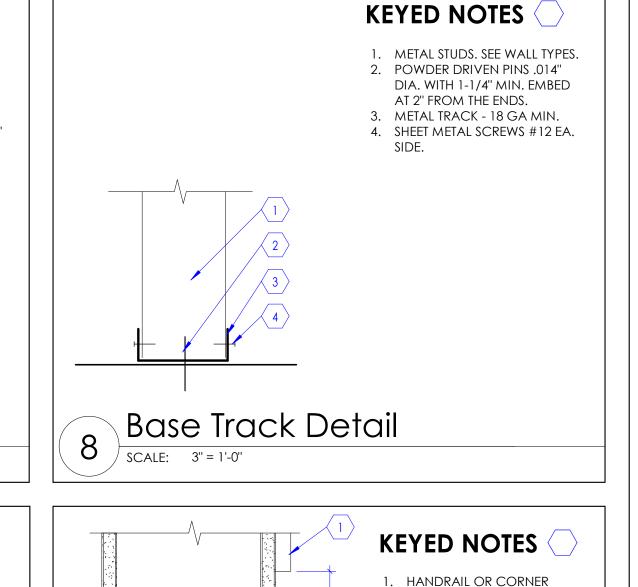
**KEYED NOTES** 

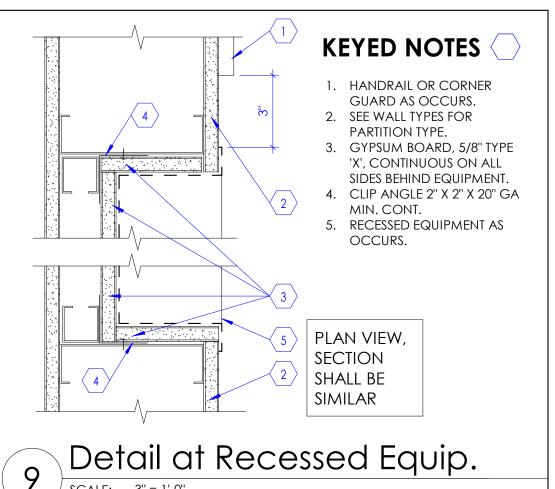
1. SHEET METAL STRAP. SEE BRACING

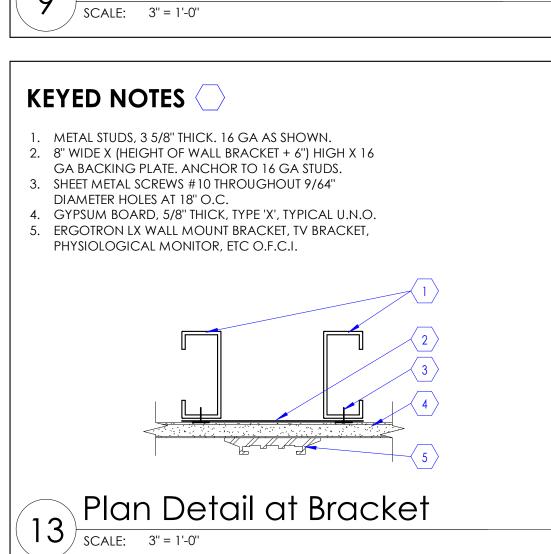
SCHEDULE BELOW AND DETAIL

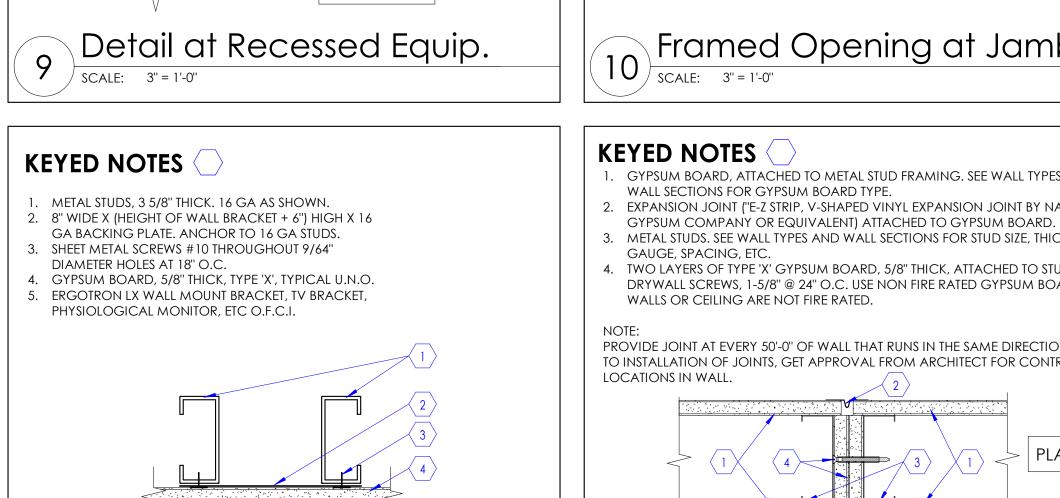
2. METAL STUD BLOCKING. SEE BRACING

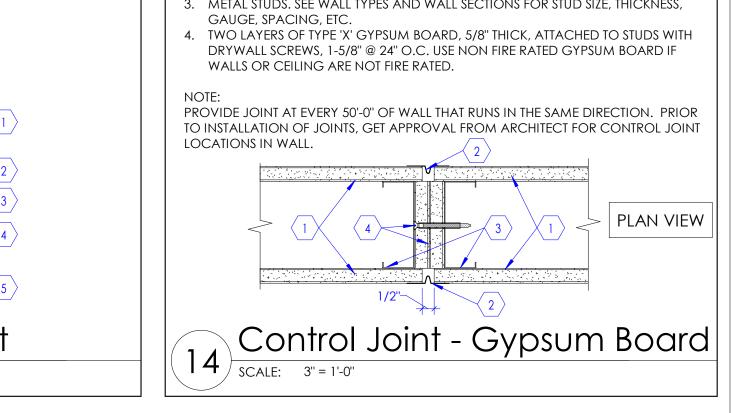


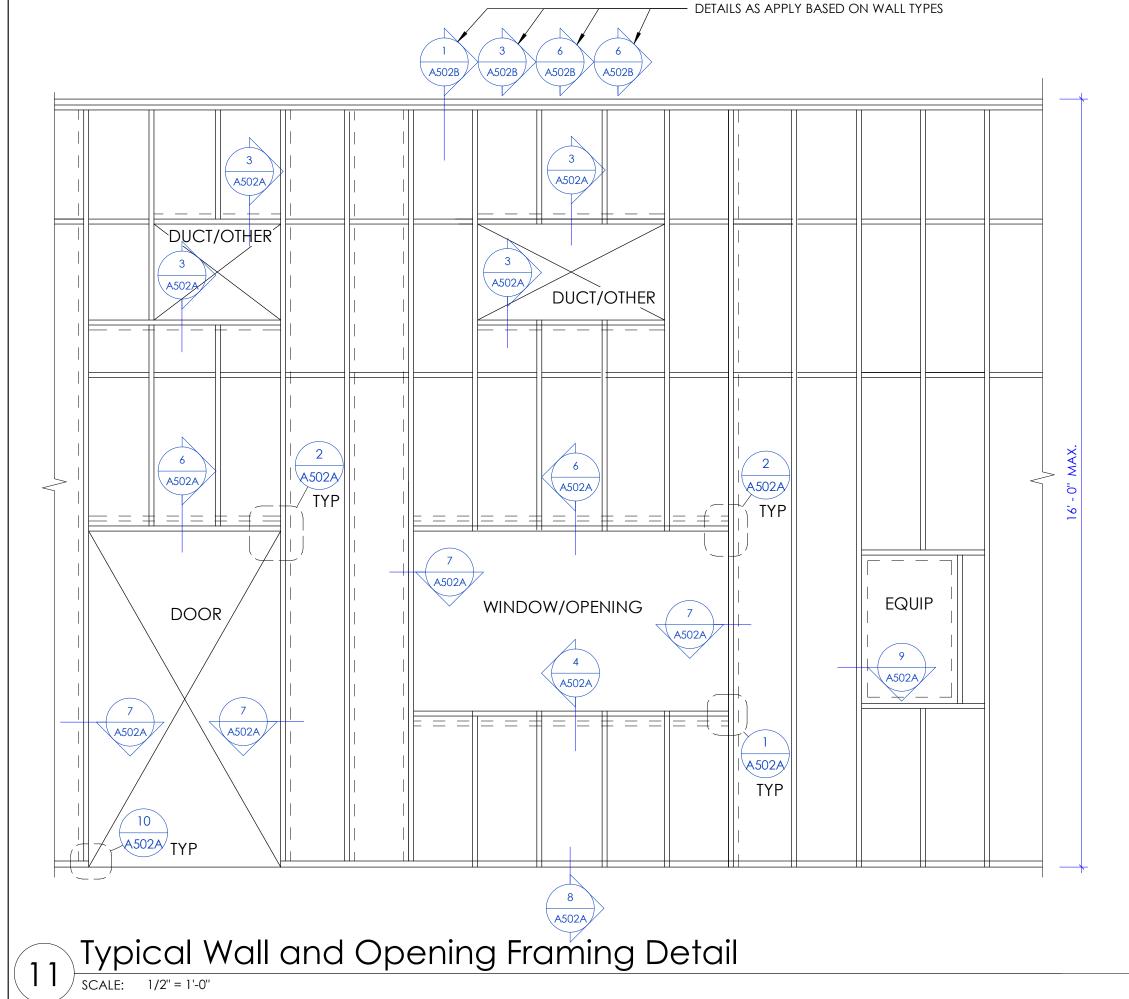


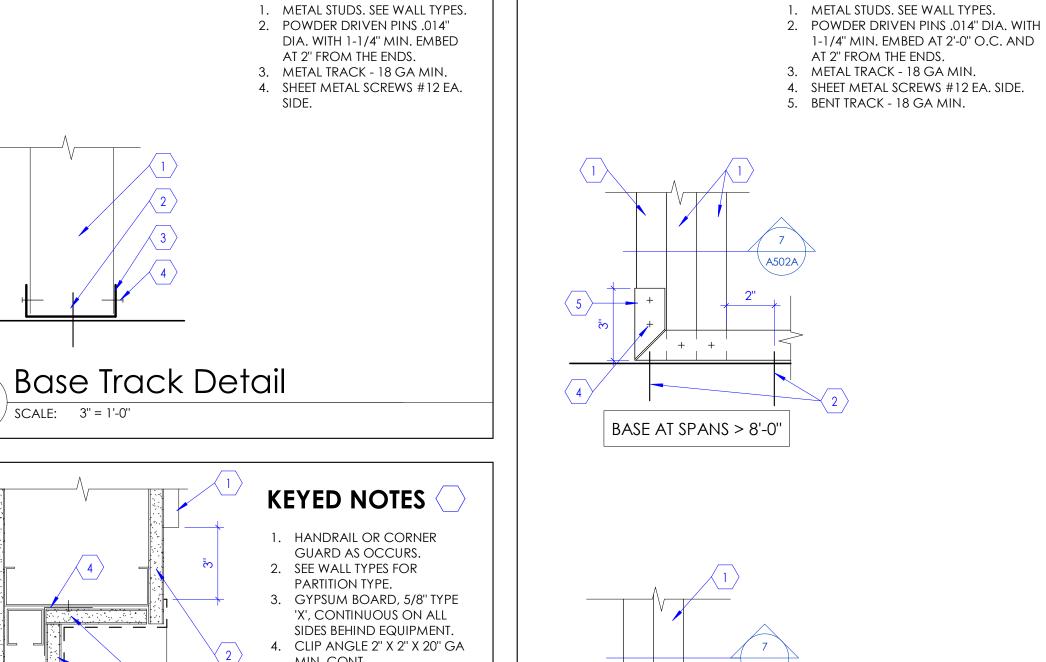












HEAD AT SPANS > 8'-0"

3. SHEET METAL SCREWS 4 #12 EA. SIDE. 4. BENT TRACK - 18 GA MIN. COPE WEB AT JAMB-HEADER CONDITION.

P. METAL TRACK. SEE DETAIL 6 / A502A

**KEYED NOTES** 

1. METAL STUDS. SEE DETAIL 6/A502A

TYPE '2' BACKING

Backing Plate Schedule

**KEYED NOTES** 

BASE AT SPANS < 8'-0"

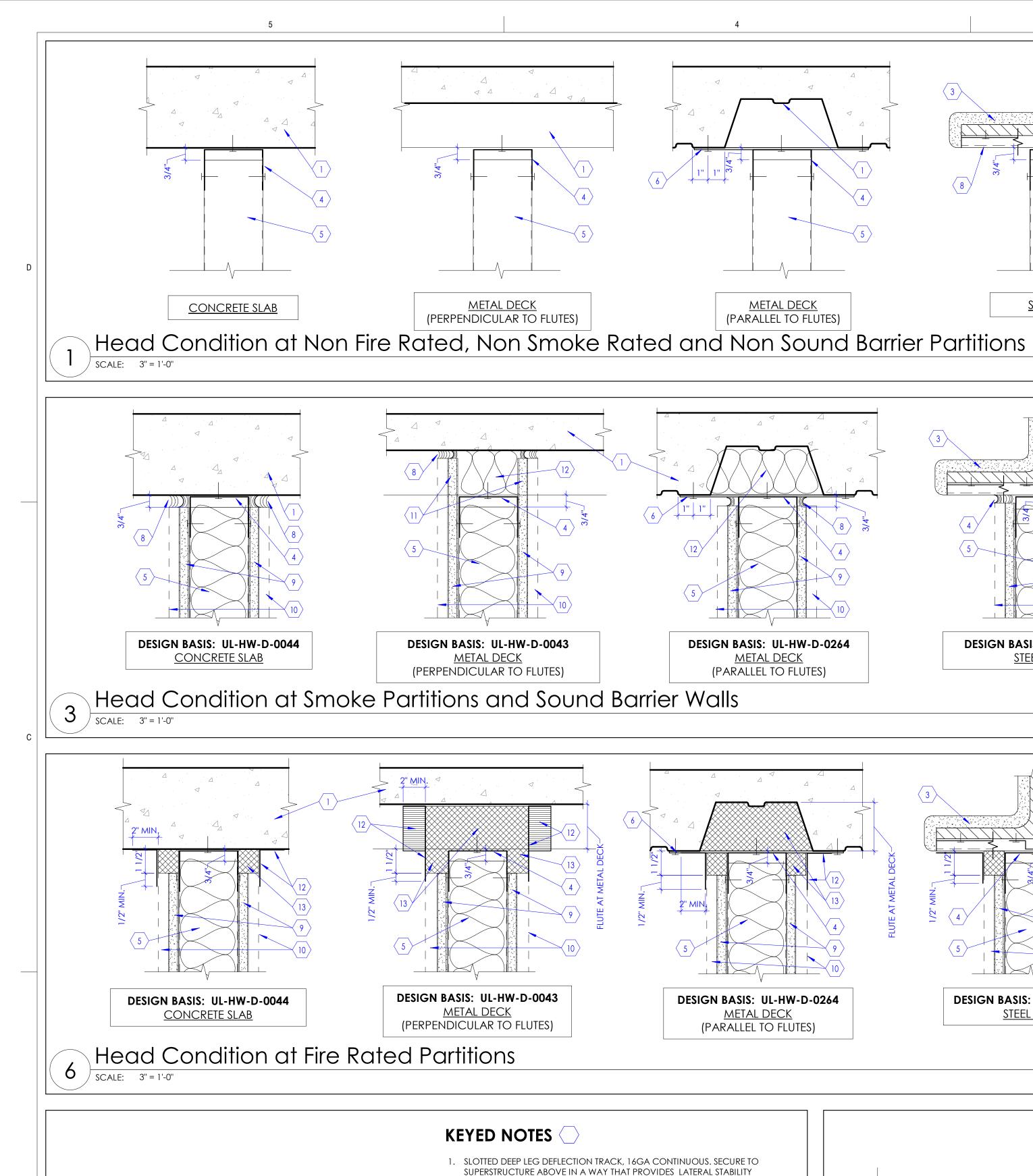
GYPSUM BOARD, ATTACHED TO METAL STUD FRAMING. SEE WALL TYPES AND WALL SECTIONS FOR GYPSUM BOARD TYPE. EXPANSION JOINT ("E-Z STRIP, V-SHAPED VINYL EXPANSION JOINT BY NATIONAL

Framed Opening at Jamb

METAL STUDS. SEE WALL TYPES AND WALL SECTIONS FOR STUD SIZE, THICKNESS,

6 SCALE: 3" = 1'-0"

**Sheet Number** 



(PERPENDICULAR-TO AND IN-PLANE WITH WALL) YET ALLOWING FOR A

MINIMUM OF 3/4" OF VERTICAL DEFLECTION OF THE SUPERSTRUCTURE. 2. SLIP CONNECTION. SECURE VERTICAL STUDS TO SLOTTED TOP TRACK AT MID-

5. GYPSUM BOARD, 5/8" THICK, TYPE 'X'. TYPICAL. DO NOT SCREW GYPSUM

STUDS MUST BE AT LEAST 1" BELOW THE BOTTOM OF THE TOP TRACK.

A. CONDITIONS INDICATED SHOW DESIGN INTENT, ESPECIALLY IN REGARD TO ACCOMMODATION OF STRUCTURAL DEFLECTION AND CONTINUITY OF

B. DESIGN INTENT DETAILS MAY NOT SHOW ALL CONDITIONS TO BE ENCOUNTERED

C. RIGIDLY SECURE SLOTTED TOP TRACK TO BUILDING SUPERSTRUCTURE IN AN APPROVED MANNER. EMPLOY Z-BARS, COLD-ROLLED CHANNELS OR SIMILAR SPACER TO ACCOMMODATE THICKNESS OF SPRAY-APPLIED FIRE-RESISTIVE

D. SLOTTED TOP TRACK, INDICATED ON THESE DETAILS, IS THE BASIS FOR DESIGN AND REFERS TO DEEP-LEG TRACKS WITH VERTICALLY SLOTTED HOLES.

G. MAINTAIN ACOUSTIC RATING WHERE SOUND-CONTROL WALLS ARE INDICATED.

EXPOSED CLEAN SEALANT (TO CONCEAL FIRESTOPPING) AT FOOD SERVICE

WHERE A WALL IS DESIGNATED AS BOTH A SOUND-CONTROL WALL AND A FIRE-

I. WHERE A WALL IS DESIGNATED AS A SOUND-CONTROL WALL, FILL ALL VOIDS

. AT SMOKE PARTITIONS AND SOUND-CONTROL WALLS EXTEND GWB ON BOTH

SUPERSTRUCTURE INCLUDING, BUT NOT LIMITED TO, FLUTES IN METAL DECKING.

SIDES INTO THE FLUTES, CUT TO FOLLOW UNDULATING SURFACES OF THE

H. FIRESTOPPING AND ACOUSTICAL SEALANTS SHALL AUTOBOND. PROVIDE

FACILITIES, KITCHEN, BIOLOGICAL CONTAINMENT AND CLEAN ROOM

RATED WALL, REFER TO FIRE-RATED HEAD-OF-WALL CONDITIONS.

PROVIDE A CONTINUOUS BEAD OF SEALANT (AS SPECIFIED) TO

WITH SOUND ATTENUATION BATTS (SAB).

. REFER TO PARTITION STANDARDS FOR SPECIFIC WALL TYPES.

F. AT FIRE -RATED WALLS REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING HEAD-OF-WALL CONDITIONS.

VERTICALLY AS SUPERSTRUCTURE DEFLECTS.

INTEGRITY OF SOUND, SMOKE AND FIRE WALLS.

4. FLOOR OR ROOF DECK AS OCCURS.

**GENERAL NOTES** 

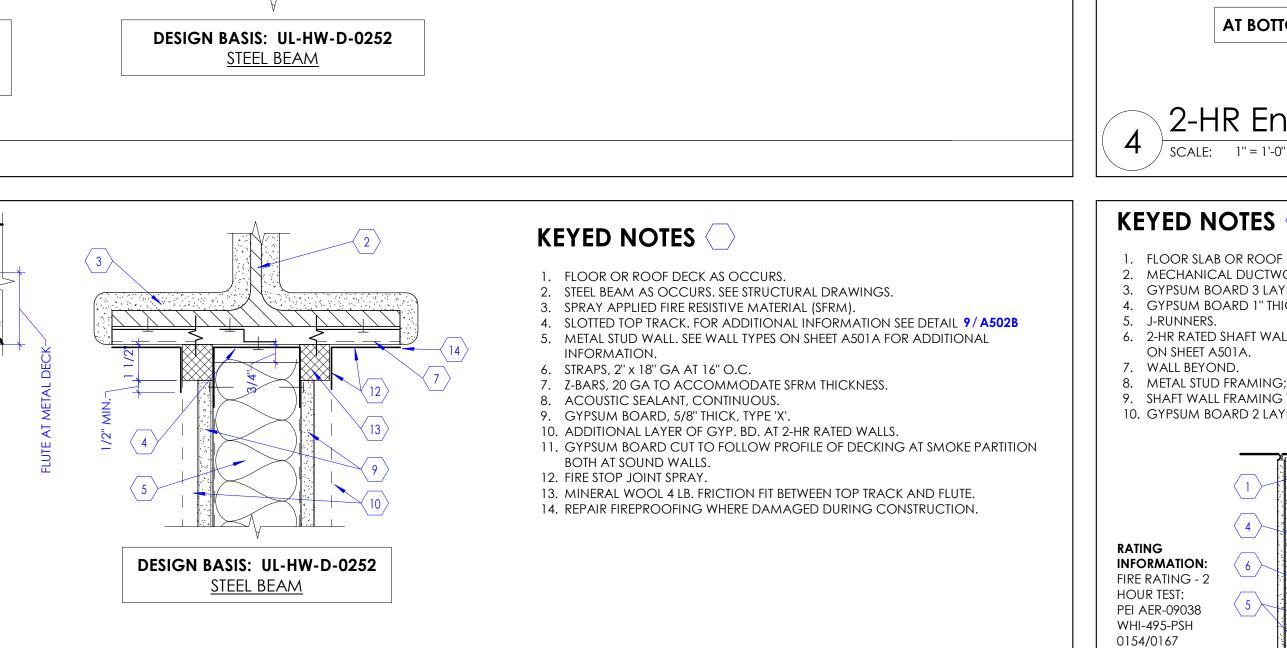
ON A PROJECT.

MATERIALS (SFRM).

3. VERTICAL STUD. SEE INTERIOR WALL TYPES ON SHEET A501A.

HEIGHT OF VERTICAL SLOTS IN TRACK. COMPONENTS INTENDED TO SLIDE

WALLBOARD TO TOP TRACK OR SUPERSTRUCTURE. GWB SCREWS INTO THE



KEYED NOTES

INFORMATION.

KEYED NOTES

INFORMATION.

1. FLOOR OR ROOF DECK AS OCCURS.

6. STRAPS, 2" x 18" GA AT 16" O.C.

ADDITIONAL INFORMATION.

B. ACOUSTIC SEALANT, CONTINUOUS.

PARTITION BOTH AT SOUND WALLS.

12. FILL FLUTE VOID WITH BATT INSULATION.

. STEEL BEAM AS OCCURS. SEE STRUCTURAL DRAWINGS.

. Z-BARS, 20 GA TO ACCOMMODATE SFRM THICKNESS.

10. ADDITIONAL LAYER OF GYP. BD. WHERE OCCURS.

9. GYPSUM BOARD, 5/8" THICK. SEE WALL TYPES ON SHEET A501 FOR

11. GYPSUM BOARD CUT TO FOLLOW PROFILE OF DECKING AT SMOKE

13. REPAIR FIREPROOFING WHERE DAMAGED DURING CONSTRUCTION.

4. SLOTTED TOP TRACK. FOR ADDITIONAL INFORMATION SEE DETAIL 9/A502B

. METAL STUD WALL. SEE WALL TYPES ON SHEET A501A FOR ADDITIONAL

3. SPRAY APPLIED FIRE RESISTIVE MATERIAL (SFRM).

1. FLOOR OR ROOF DECK AS OCCURS

2. STEEL BEAM AS OCCURS. SEE STRUCTURAL DRAWINGS.

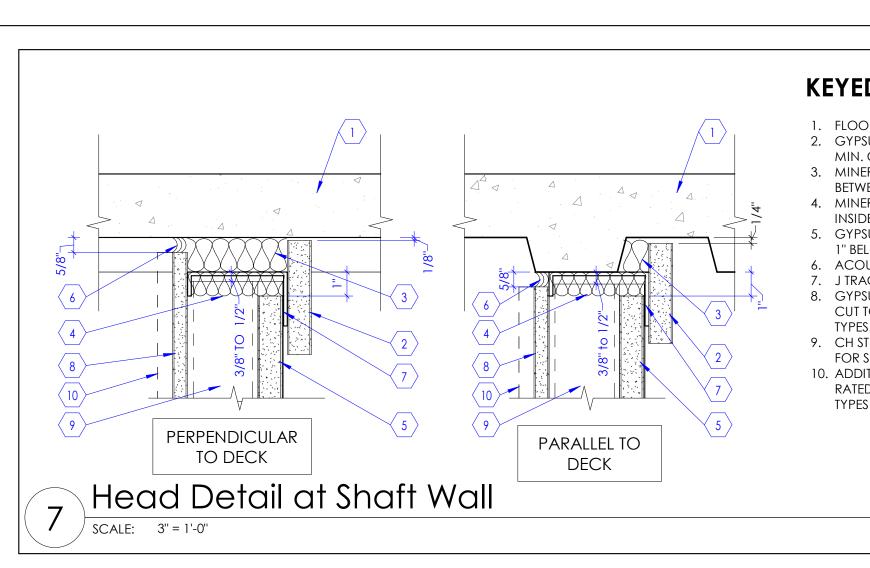
4. SLOTTED TOP TRACK. FOR ADDITIONAL INFORMATION SEE DETAIL 9/A502B

5. METAL STUD WALL. SEE WALL TYPES ON SHEET A501A FOR ADDITIONAL

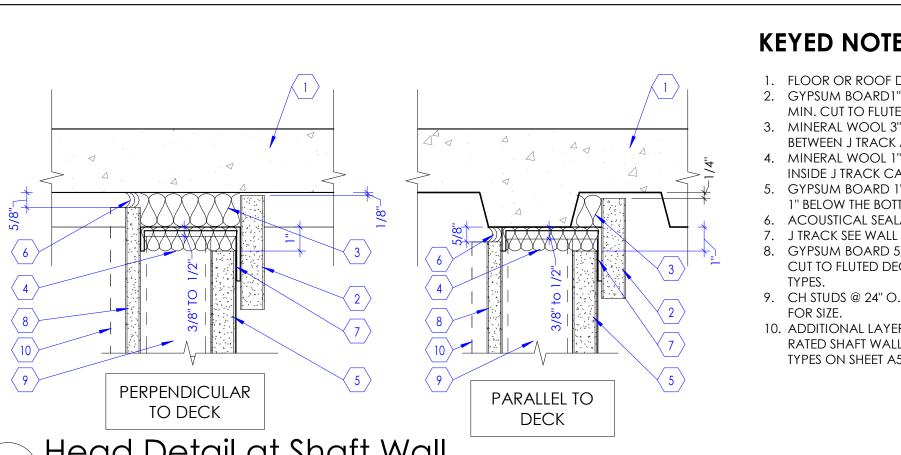
8. REPAIR FIREPROOFING WHERE DAMAGED DURING CONSTRUCTION.

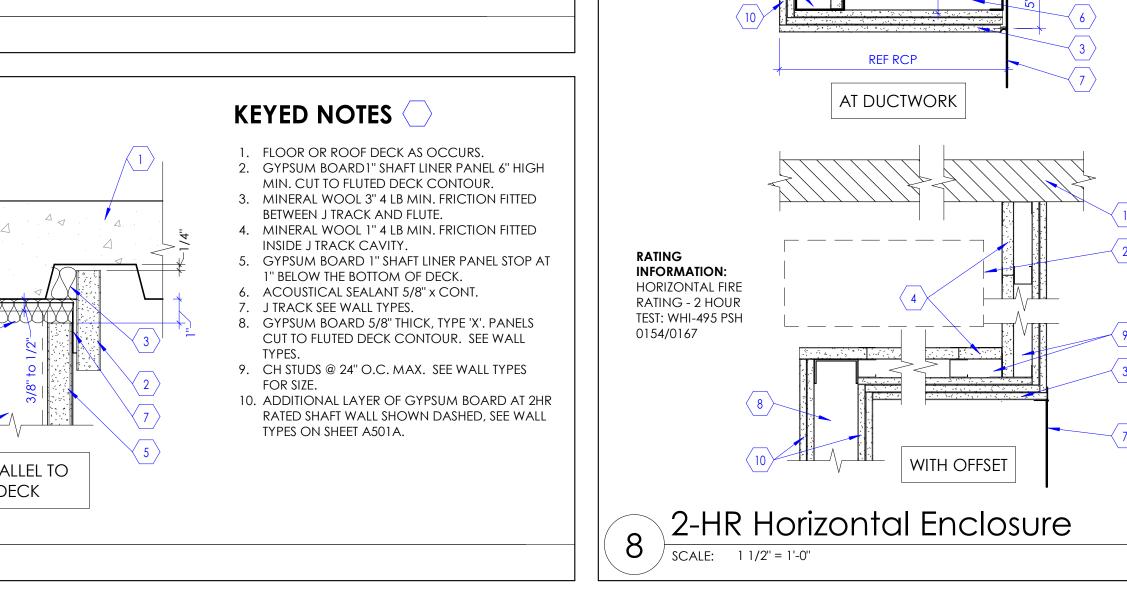
3. SPRAY APPLIED FIRE RESISTIVE MATERIAL (SFRM).

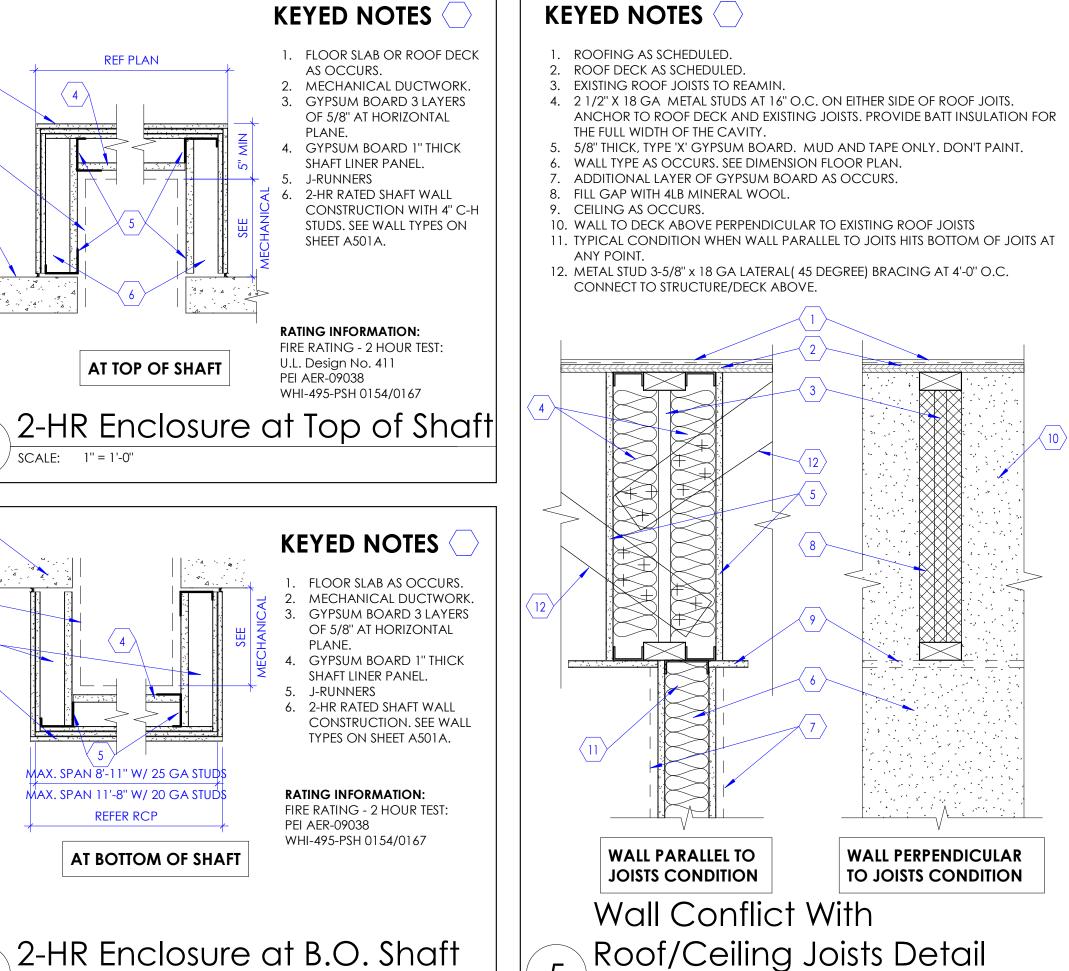
6. STRAPS 2" x 18" GA AT 16" O.C.7. Z-BARS 20 GA TO ACCOMMODATE SFRM THICKNESS.



STEEL BEAM







**KEYED NOTES** 

AS OCCURS.

SHAFT LINER PANEL.

J-RUNNERS

SHEET A501A.

**RATING INFORMATION:** FIRE RATING - 2 HOUR TEST:

WHI-495-PSH 0154/0167

**KEYED NOTES** 

SHAFT LINER PANEL.

J-RUNNERS

**RATING INFORMATION:** 

WHI-495-PSH 0154/0167

PEI AER-09038

FIRE RATING - 2 HOUR TEST:

MAX. SPAN 8'-11" W/ 25 GA STUD

MAX. SPAN 11'-8" W/ 20 GA STUDS

REFER RCP

1. FLOOR SLAB OR ROOF DECK AS OCCURS.

4. GYPSUM BOARD 1" THICK SHAFT LINER PANEL.

8. METAL STUD FRAMING; SEE PLANS FOR STUD SIZE.

9. SHAFT WALL FRAMING WITH 1 1/2" C-H STUDS.

10. GYPSUM BOARD 2 LAYERS OF 5/8".

GYPSUM BOARD 3 LAYERS OF 5/8" AT HORIZONTAL PLANE.

6. 2-HR RATED SHAFT WALL CONSTRUCTION WITH 4" C-H STUDS. SEE WALL TYPES

MECHANICAL DUCTWORK.

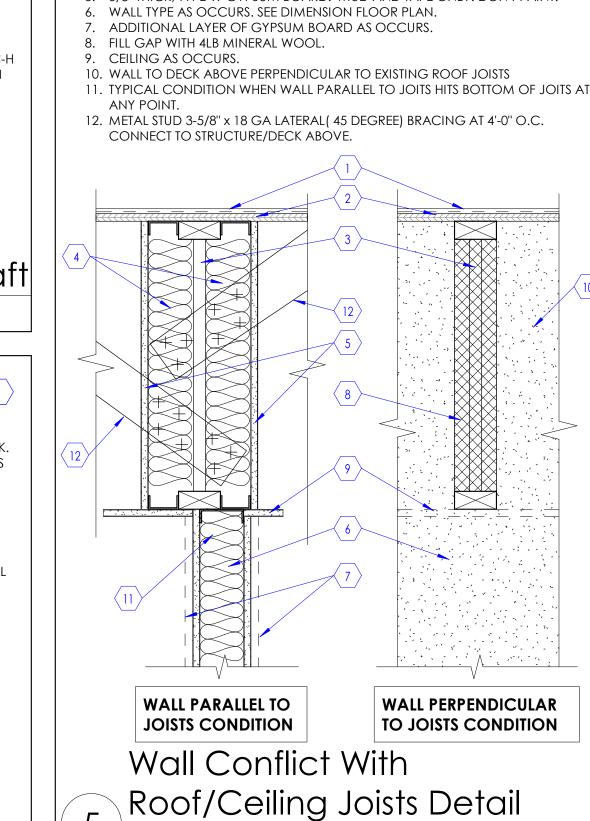
5. J-RUNNERS.

ON SHEET A501A.

7. WALL BEYOND.

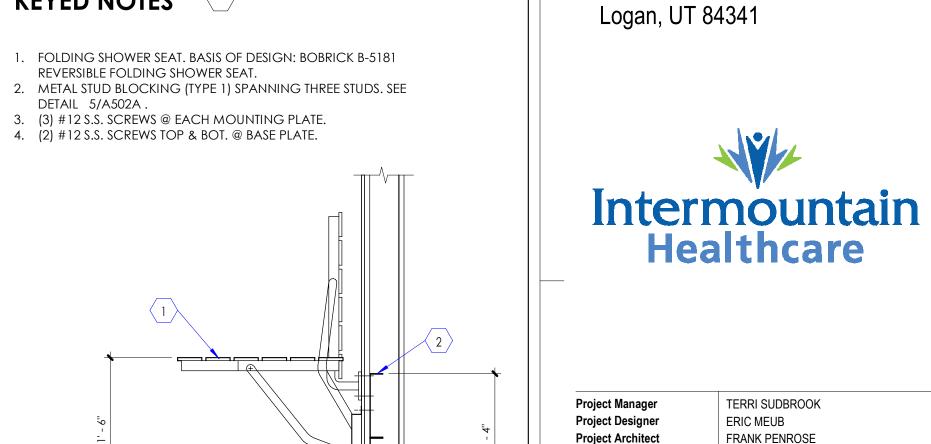
AT BOTTOM OF SHAFT

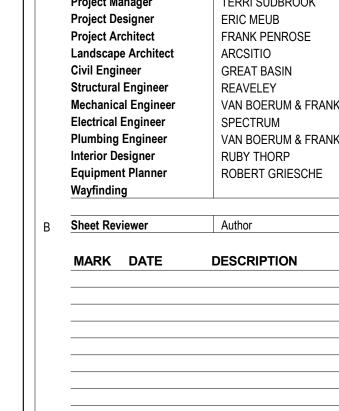
U.L. Design No. 411 PEI AER-09038



KEYED NOTES

DETAIL 5/A502A







**ARCHITECTS** 

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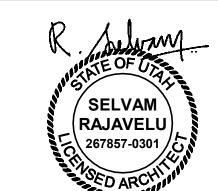
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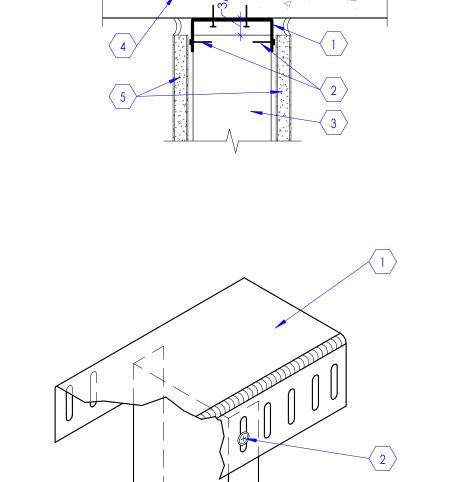
**Project Number** Original Issue



Wall Details

**A502B** 

100% Construction Documents



ISOMETRIC VIEW OF SLOTTED TOP TRACK

Slip Connection Detail

NOTE: THIS DETAIL APPLIES AT ALL SHAFTWALL CONDITIONS WHERE WALL CANNOT EXTEND FULLY TO DECK. U.N.O. **KEYED NOTES** 

1. FLOOR OR ROOF DECK AS OCCURS. 2. CONTINUOUS ACOUSTIC/SMOKE SEALANT/FIRE STOP AS REQUIRED EACH SIDE.

FRONT ELEVATION

ADA Shower Seat Detail

SECTION VIEW

3. SLOTTED TOP TRACK. FOR ADDITIONAL INFORMATION SEE DETAIL 9/A502B

4. FILL FLUTE AT METAL DECK WITH CONTINUOUS 4LB MINERAL WOOL. FRICTION FIT BETWEEN TOP TRACK

5. GYPSUM BOARD, 5/8" THICK, TYPE 'X', TYPICAL. 6. METAL STUDS AT 16" O.C. MATCH PARTITION TYPE, PACK

FULL WITH INSULATION AS REQUIRED

7. PARTITION WALL AS SCHEDULE. 8. SHAFT WALL AS SCHEDULE.

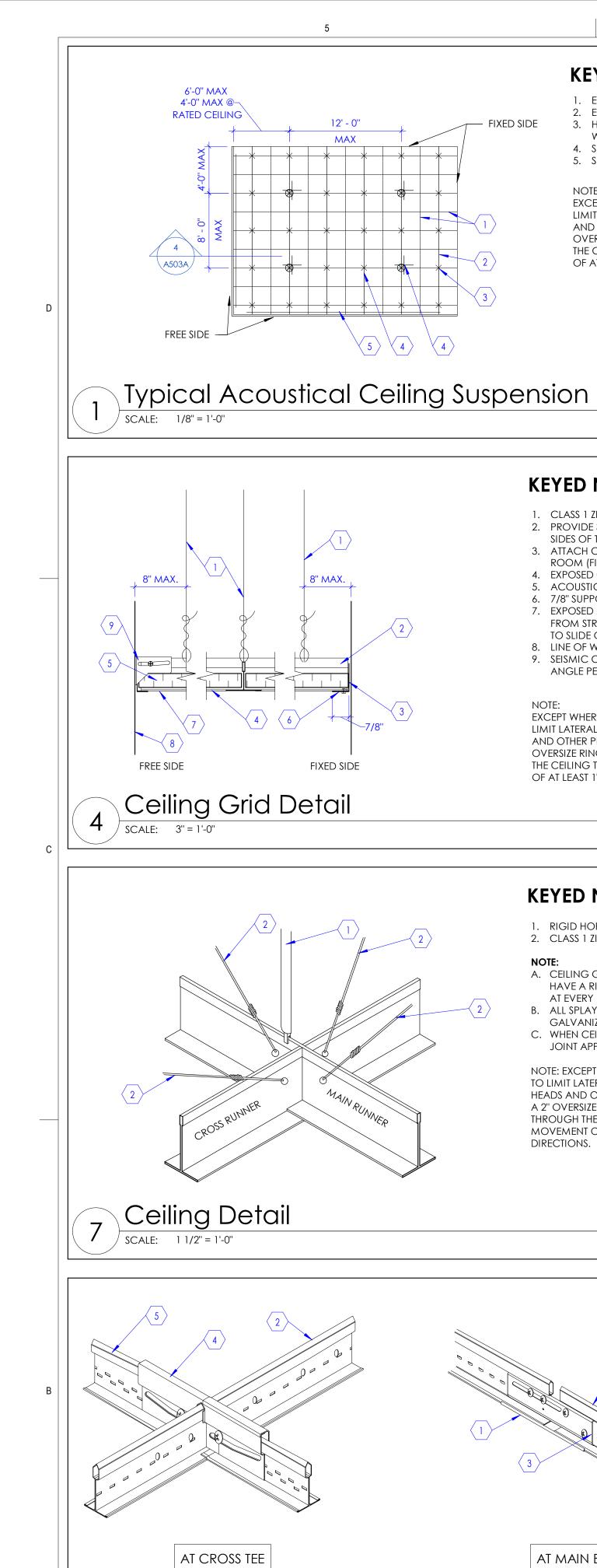
9. FIRE STOP AS REQUIRED. 10. STRAPS, 2" x 18" GA AT 16" O.C.

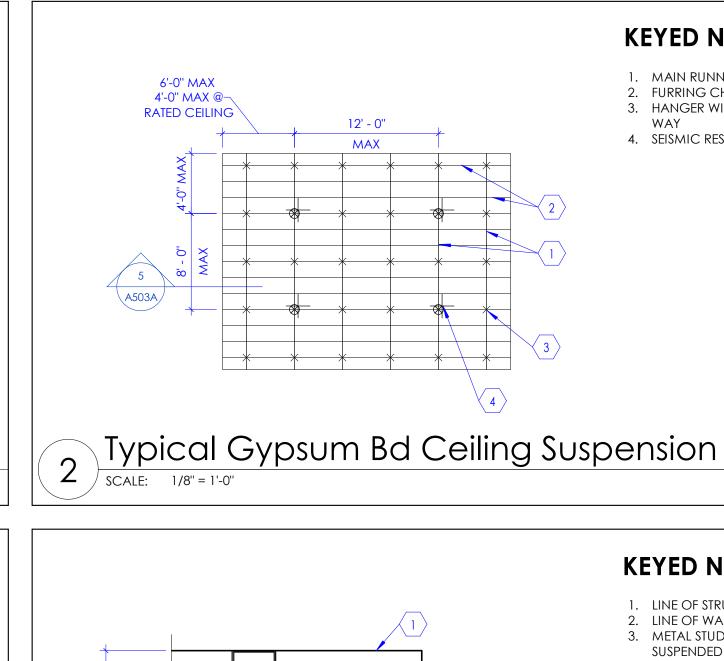
RATED, SMOKE TIGHT, OR 1 HOUR RATED PARTITIONS RATED PARTITIONS WHERE ONE SIDE OF WALL WHERE GWB IS OBSTRUCTED. U.N.O. IS OBSTRUCTED. U.N.O. Alternate Framing Details at Rated Walls

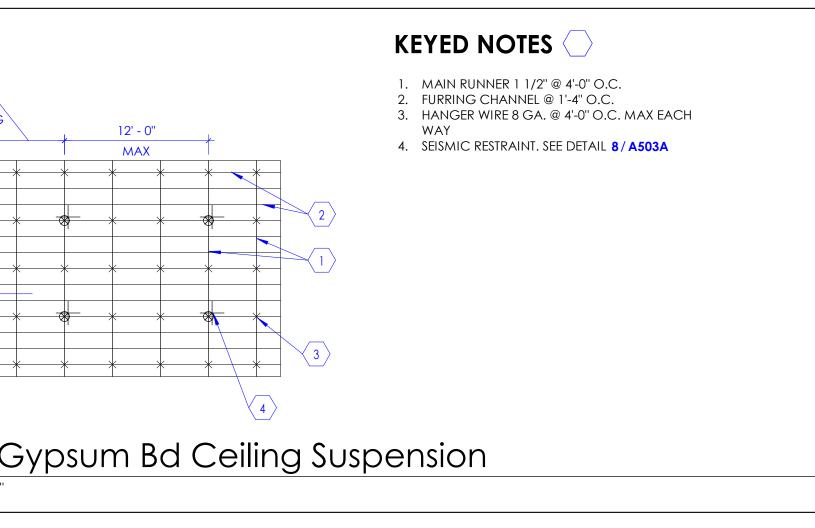
SCALE: 1 1/2" = 1'-0"

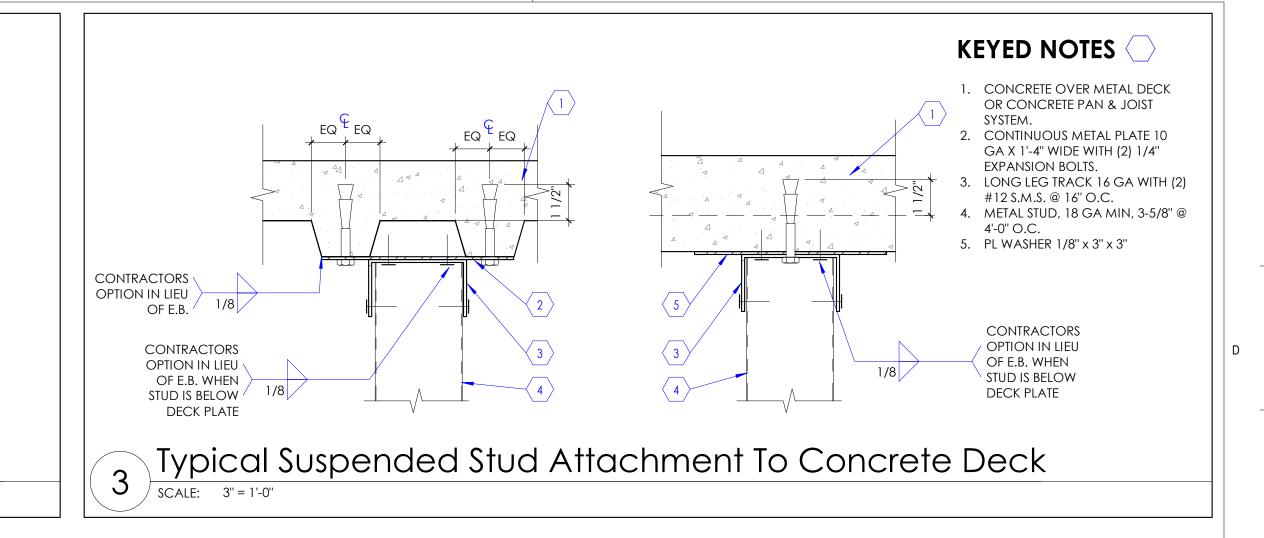
NOTE: THIS DETAIL APPLIES AT ALL 2 HOUR

NOTE: THIS DETAIL APPLIES AT ALL FULL HEIGHT NON-













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Project Manager TERRI SUDBROOK **Project Designer** ERIC MEUB Project Architect FRANK PENROSE Landscape Architect ARCSITIO Civil Engineer **GREAT BASIN** Structural Engineer **Mechanical Engineer Electrical Engineer** SPECTRUM Plumbing Engineer

**VAN BOERUM & FRANK** VAN BOERUM & FRANK Interior Designer RUBY THORP **Equipment Planner** ROBERT GRIESCHE Sheet Reviewer Author

MARK DATE DESCRIPTION



**KEYED NOTES** 

SIDES OF THE ROOM. DO NOT ATTACH CEILING GRID TO WALL ANGLE. 3. ATTACH CEILING GRID TO WALL ANGLE ON TWO ADJACENT SIDES OF THE ROOM (FIXED SIDES). 4. EXPOSED CROSS RUNNER ATTACHED TO MAIN RUNNERS. 5. ACOUSTICAL CEILING TILES. SEE CEILING PLANS.

2. PROVIDE 3/4" GAP BETWEEN CEILING GRID AND ANGLE ON TWO ADJACENT

1. CLASS 1 ZINC COATED, SOFT TEMPERED WIRES, 12 GAUGE MIN.

- 6. 7/8" SUPPORTING CLOSURE ANGLE AT CEILING PERIMETER ATTACHED TO WALL 7. EXPOSED MAIN RUNNER SHALL BE HEAVY DUTY T-BAR GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE. THIS END OF THE GRID SHALL REST UPON AND BE FREE
- 9. SEISMIC CLIPS. BASIS OF DESIGN ARMSTRONG BERC 2 CLIPS IN LIEU OF 2" WALL ANGLE PER ICC-ESR 1308.

1. RIGID HORIZONTAL RESTRAINT FROM CEILING GRID TO STRUCTURE ABOVE.

A. CEILING GRIDS IN ROOMS OR AREAS GREATER THAN 1,000 SQ. FT. SHALL

B. ALL SPLAYED WIRES SHALL BE AT 45 DEGREES ANGLES, 12 GAUGE AND

C. WHEN CEILING AREA EXCEEDS 2,500 SQ. FT. PROVIDE SEISMIC SEPARATION

JOINT APPROVED BY CEILING GRID MANUFACTURER AND ARCHITECT.

HAVE A RIGID HORIZONTAL RESTRAINT FROM CEILING TO STRUCTURE ABOVE

KEYED NOTES

1. EXPANSION SLEEVE 4"x15/16". BASIS OF

DESIGN: ARMSTRONG ES4, COLOR-

ARMSTRONG PRELUDE 15/16"XL

SEISMIC SEPARATION JOINT CLIP.

BASIS OF DESIGN: ARMSTRONG

BASIS OF DESIGN: ARMSTRONG

ARMSTRONG PRELUDE 15/16"XL

4. SEISMIC SEPARATION JOINT CLIP.

CROSS TEES. BASIS OF DESIGN:

2. MAIN BEAM. BASIS OF DESIGN:

SJMR-4"x1".

SJCG-5"x1-1/2".

EXPOSED TEE SYSTEM.

2. CLASS 1 ZINC COATED, SOFT TEMPERED WIRES, 12 GAUGE MIN.

EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS.

**KEYED NOTES** 

AT EVERY 144 SQ. FT.

NOTE: EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL

GALVANIZED.

AT MAIN BEAM

Seismic Separation Joint Clip Detail

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

**KEYED NOTES** 

5. SLOTTED ANGLE SPACER.

EXPOSED CROSS GRID MEMBER @ 2'-0" O.C.
 EXPOSED MAIN GRID MEMBER @ 4'-0".

4. SEISMIC RESTRAINT. SEE DETAIL 7/A503A

EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS

OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS.

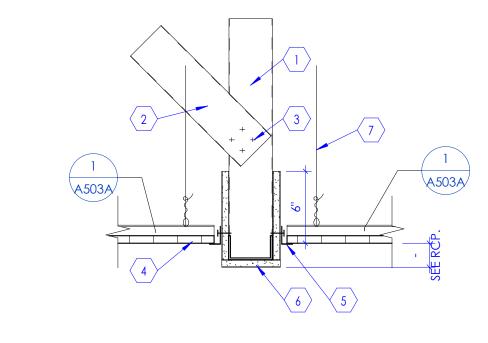
AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TO ALLOW FOR FREE MOVEMENT

3. HANGER WIRE 12 GA. @ 4'-0" O.C. MAX EACH

# SEE CEILING PLAN

**KEYED NOTES** 1. LINE OF STRUCTURE ABOVE.

- 2. LINE OF WALL. 3. METAL STUD FRAMING (3-5/8" THICK, 18 GAUGE, METAL STUDS AT 16" O.C.) SUSPENDED FROM STRUCTURE ABOVE (OR WALL WHERE OCCURS). CROSS BRACE FRAMING AS REQUIRED FOR STRUCTURAL RIGIDITY.
- 4. ATTACH 5/8" THICK, TYPE 'X', GYPSUM BOARD TO METAL STUD FRAMING.



Gypsum Board Header

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

# 2 - SEE REFLECTED **CEILING PLAN** FOR CEILING HEIGHT SEE REFLECTED **CEILING PLAN** FOR SOFFIT

**KEYED NOTES** 

**KEYED NOTES** 

3. SHEET METAL SCREWS (4) #10.

6. GYPSUM BOARD 5/8" TYPE 'X', TYP.

7. HANGER WIRES 12 GA, TYP.

1. METAL STUD FRAMING 3 5/8" X 18 GA STUDS, SUSPENDED

2. METAL STUD 3-5/8" X 18 GA LATERAL (45 DEGREE)

4. ACOUSTICAL CEILING PANEL. SEE REFLECTED CEILING

5. PERIMETER ANGLE MOLDING. SEE DETAIL 4/A503A

FROM STRUCTURE ABOVE @ 16" O.C. SEE DETAIL 3/A503A

BRACING AT 4'-0" O.C. CONNECT TO STRUCTURE ABOVE.

- 1. GYPSUM BOARD, 5/8" THICK (USE TYPE 'X' IF WALLS ARE FIRE RATED) ATTACHED TO METAL STUD FRAMING.
- 2. LINE OF WALL. 3. LINE OF CEILING AS OCCURS. SEE REFLECTED CEILING PLAN FOR
- 4. METAL STUD FRAMING 3 5/8" THICK, 20 GAUGE STUDS, SUSPENDED FROM STRUCTURE ABOVE. STUDS SHALL BE AT 16" O.C. 5. LINE OF STRUCTURE ABOVE.

KEYED NOTES (

1. EXTRUDED ALUMINUM TRACK.

2. METAL TUBE SPACER AT ALL FASTENERS.

3. CONTINUOUS METAL FURRING CHANNEL OVER TRACK.

5. LINE OF CEILING. SEE REFLECTED CEILING PLAN.

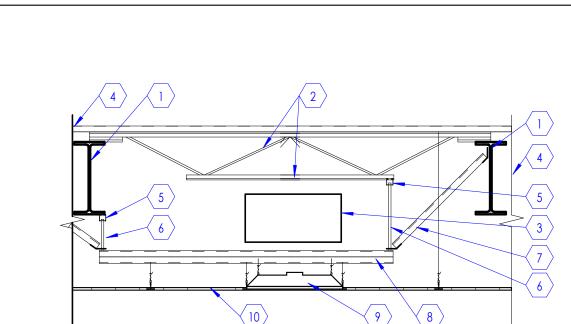
4. GALVANIZED HANGER WIRE, 12 GA, ATTACHED TO STRUCTURE

**CEILING PLAN** 9 Gypsum Board Soffit
SCALE: 1 1/2" = 1'-0"

Ceiling Detail

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

Gypsum Board Ceiling Seismic Restraint Detail  $8 \rightarrow \frac{1}{\text{SCALE:}} 11/2" = 1'-0"$ 



**KEYED NOTES** (

**KEYED NOTES** 

1. SHEET METAL #12 SCREWS

2. METAL CLIP 12 GA MIN X 3/4" W.

METAL CLIP 1" W X 2" X 12 GA. MIN.

6. DIAGONAL HANGER WIRES 12 GA MIN. - 4 SIDES.

8. METAL RUNNER CHANNELS, 1 1/2" THICK AT 48" O.C.

7. FURRING CHANNEL, 7/8" THICK, @ 1'-4" O.C. MAXIMUM.

9. GYPSUM BOARD 5/8" THICK ATTACHED TO METAL FURRING CHANNEL.

3. MACHINE BOLT 1/2" DIA. MIN.

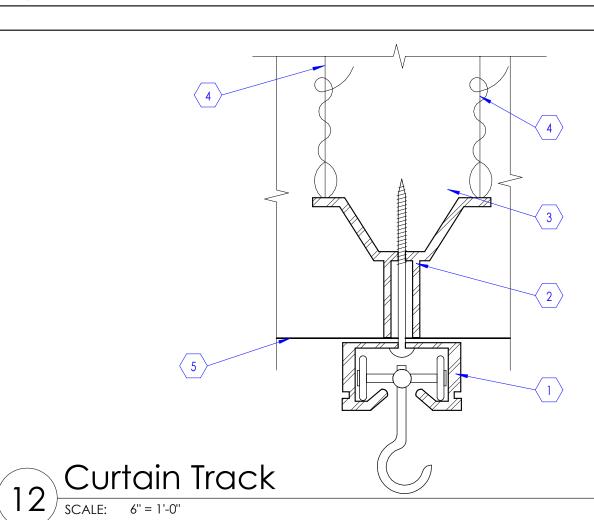
4. ANGLE STRUT OR CHANNEL

- 1. STEEL BEAM AS OCCURS. 2. STEEL JOIST AS OCCURS. 3. MECHANICAL DUCTS, SEE MECHANICAL DRAWINGS
- UNISTRUT P1000, 6" LONG SUSPENDED FROM STRUCTURE ABOVE THREADED ROD, 5/8" THICK. PROVIDE NUTS, WASHERS, CLAMPS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
- UNISTRUT, P1000, CROSS BRACE TO STRUCTURE. PROVIDE NUTS WASHERS CLAMPS ETC. AS REQUIRED FOR COMPLETE
- 8. UNISTRUT, P1001 @ 2'-0" O.C. SUSPENDED FROM STRUCTURE 9. LIGHT FIXTURE SUSPENDED FROM UNISTRUT ONLY. DO NOT
- HANG FIXTURES FROM DUCTS. 10. CEILING SEE RCP FOR HEIGHT. SUSPEND CEILING GRID FROM UNISTRUT ONLY. CONTRACTOR SHALL NOT SUSPEND LIGHTS, GRIDS, ETC. FROM DUCTS.

CONTRACTOR SHALL PROVIDE UNISTRUTS AS INDICATED IN THIS DETAIL WHEREVER DUCT INTERFERES WITH CEILING SUSPENSION

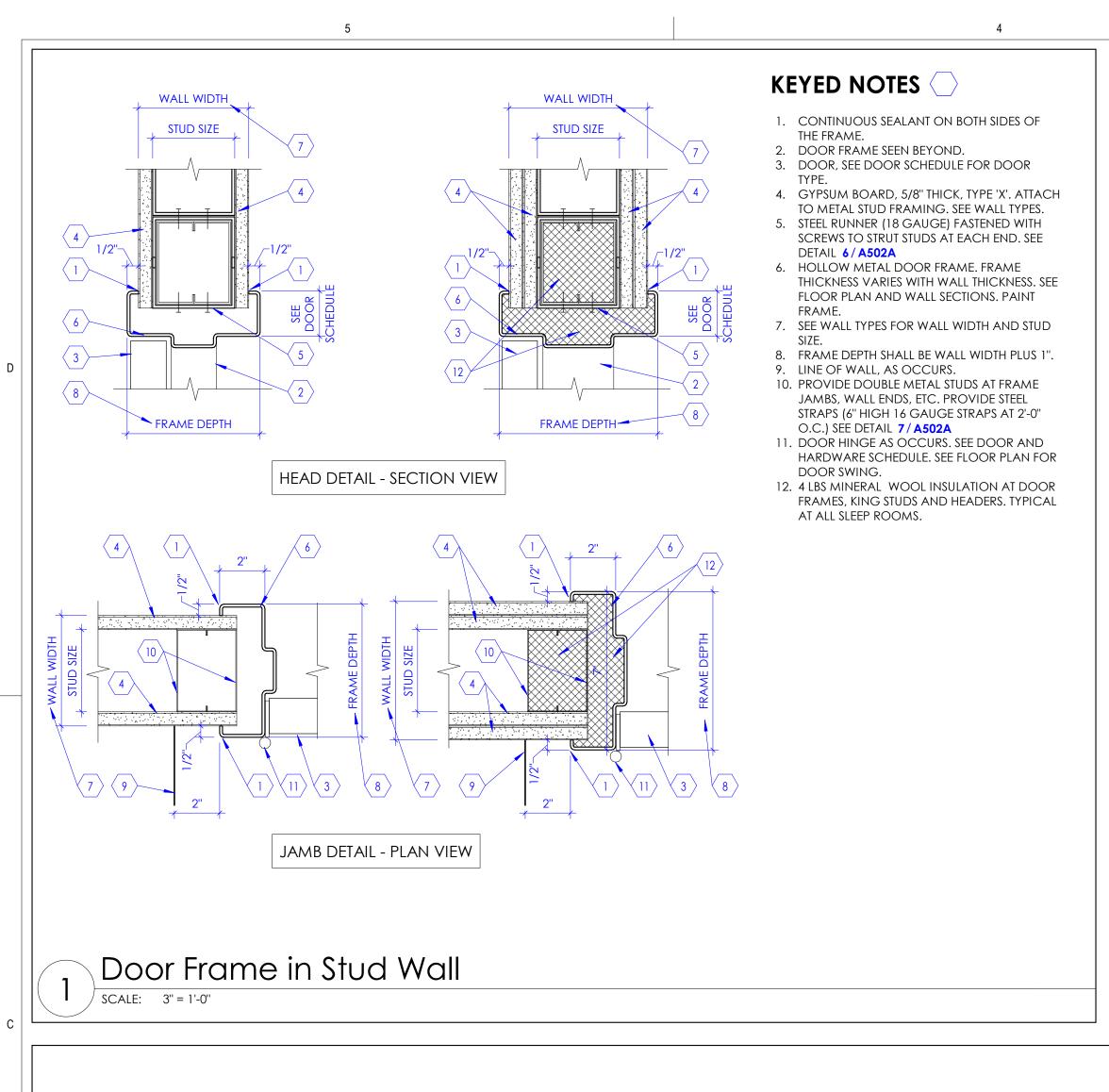
Suspended Ceiling Trapeze Detail

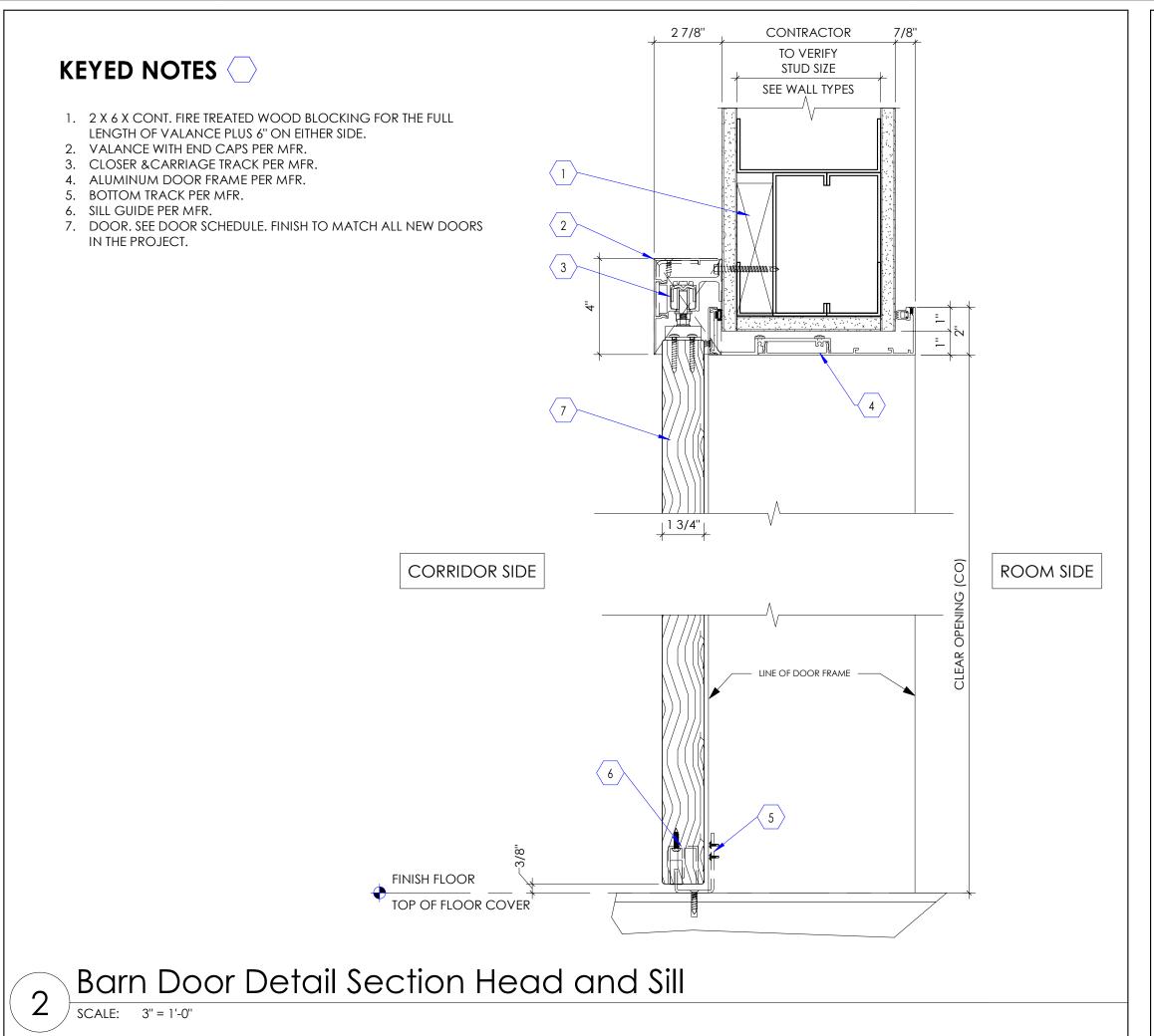
SCALE: 1/2" = 1'-0"

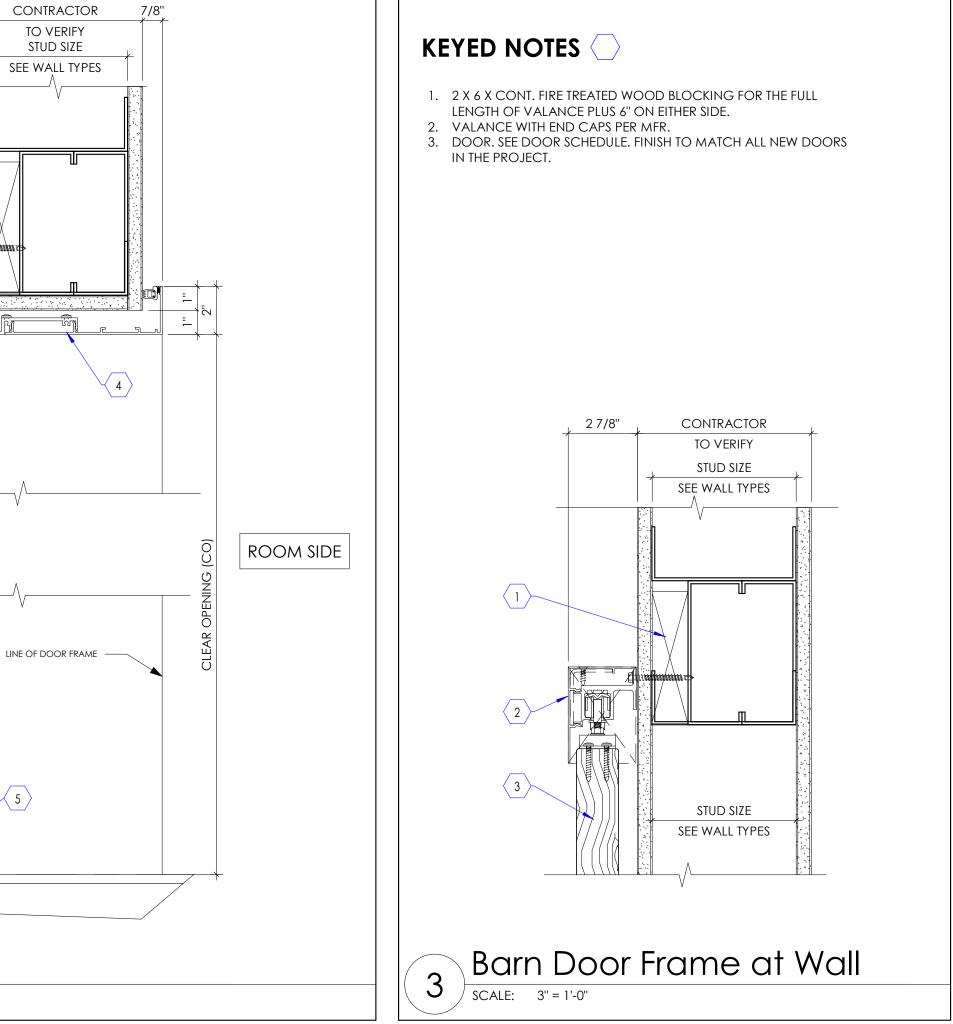


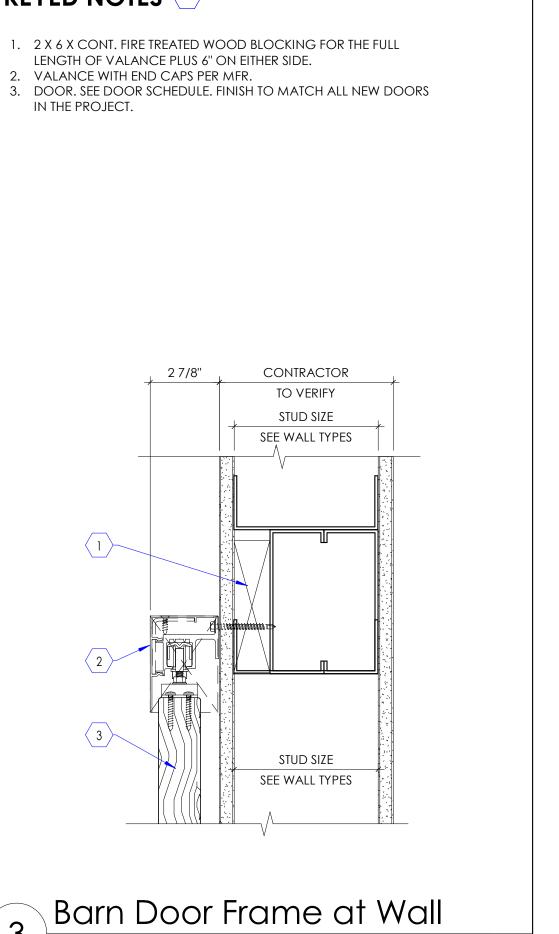
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**ARCHITECTS** 

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Project Manager TERRI SUDBROOK Project Designer ERIC MEUB Project Architect FRANK PENROSE Landscape Architect ARCSITIO Civil Engineer GREAT BASIN Structural Engineer Mechanical Engineer **VAN BOERUM & FRANK** Electrical Engineer SPECTRUM Plumbing Engineer VAN BOERUM & FRANK Interior Designer RUBY THORP **Equipment Planner** ROBERT GRIESCHE Wayfinding Sheet Reviewer Author

MARK DATE DESCRIPTION

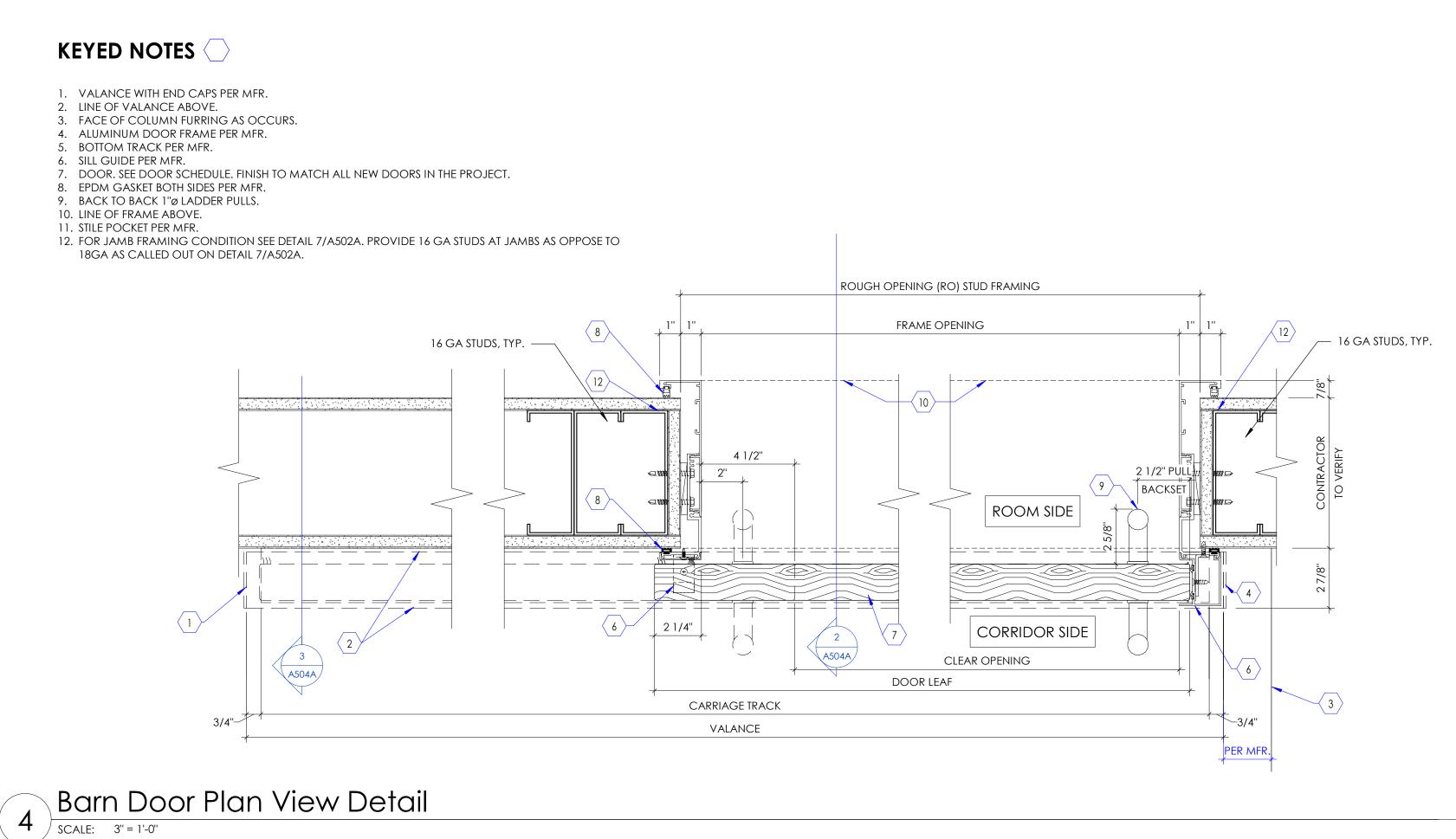
Project Number

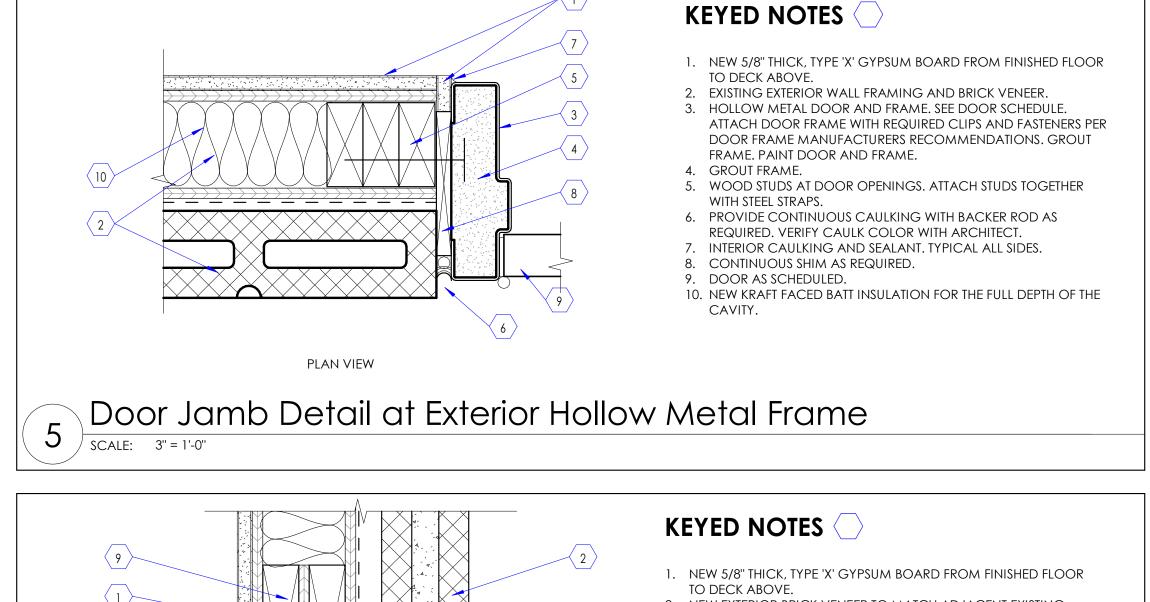
Original Issue

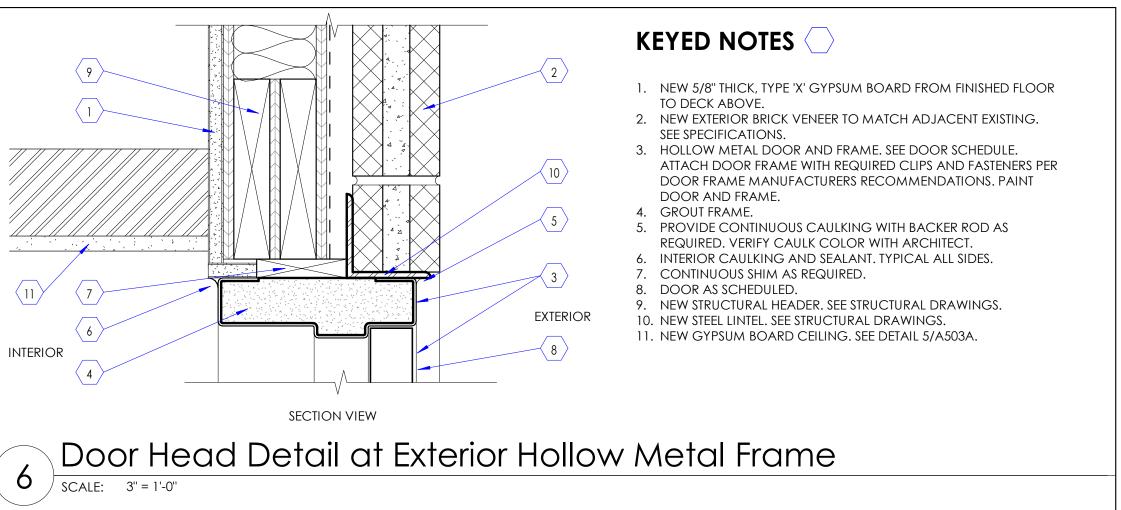


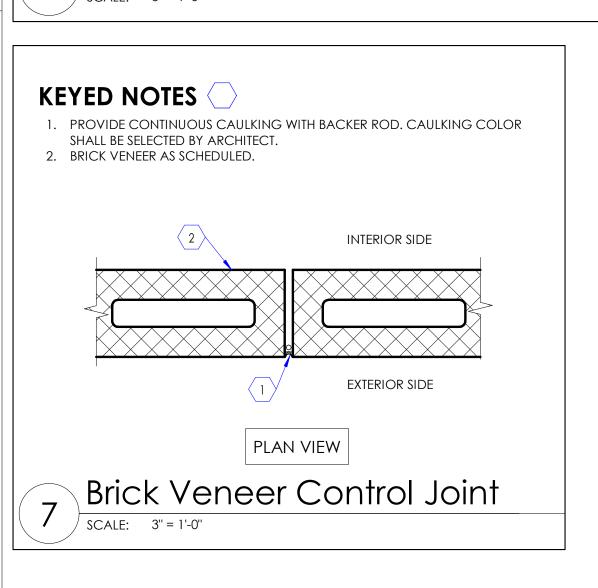
**Door & Window Details** 

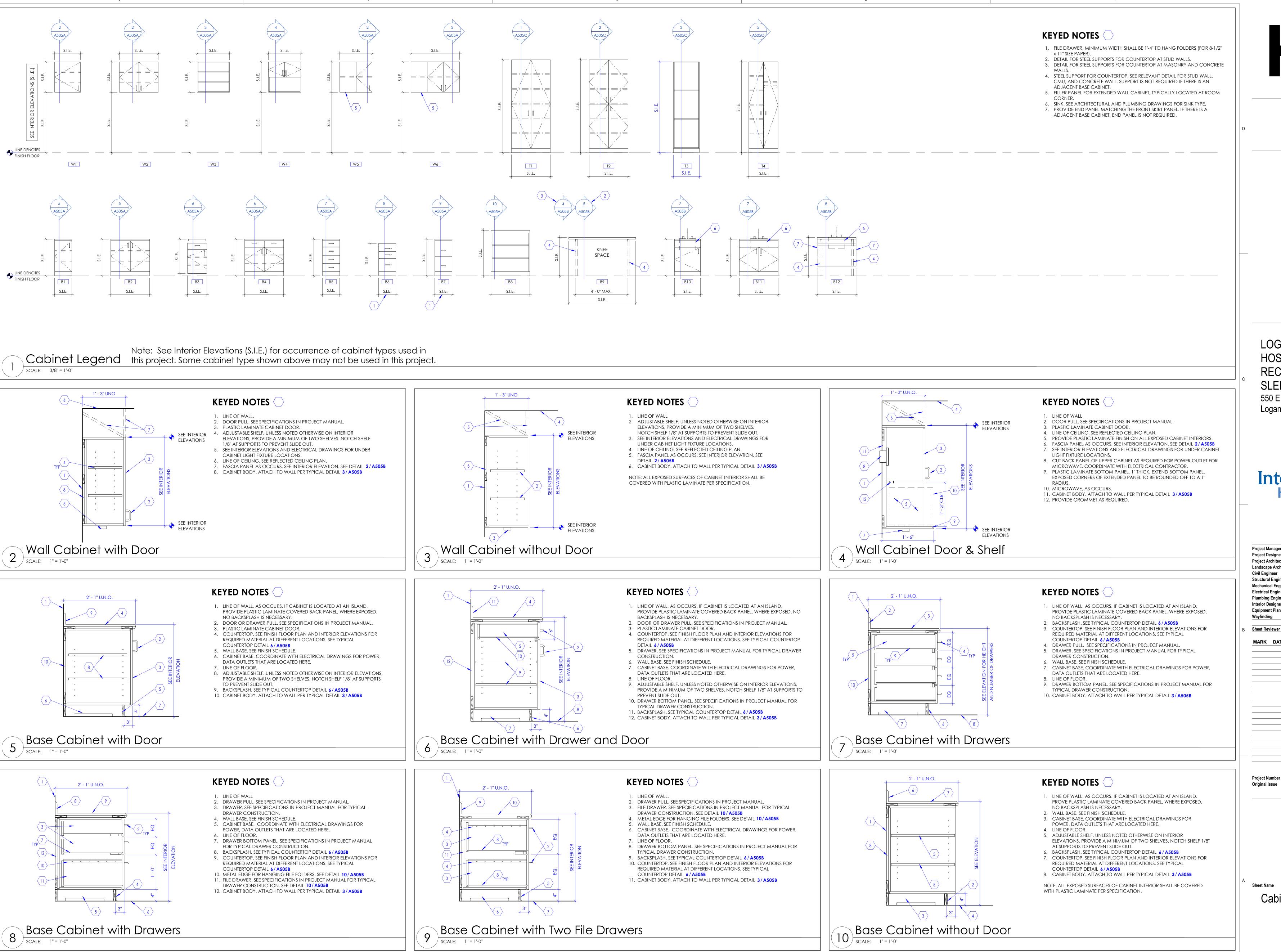
**A504A** 













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TERRI SUDBROOK

Project Manager **Project Designer** Project Architect Landscape Architect Civil Engineer Structural Engineer **Mechanical Engineer** Electrical Engineer Plumbing Engineer Interior Designer **Equipment Planner** 

ARCSITIO **GREAT BASIN VAN BOERUM & FRANK** SPECTRUM **VAN BOERUM & FRANK** RUBY THORP ROBERT GRIESCHE

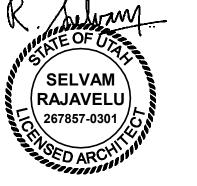
Author

ERIC MEUB

FRANK PENROSE

DESCRIPTION

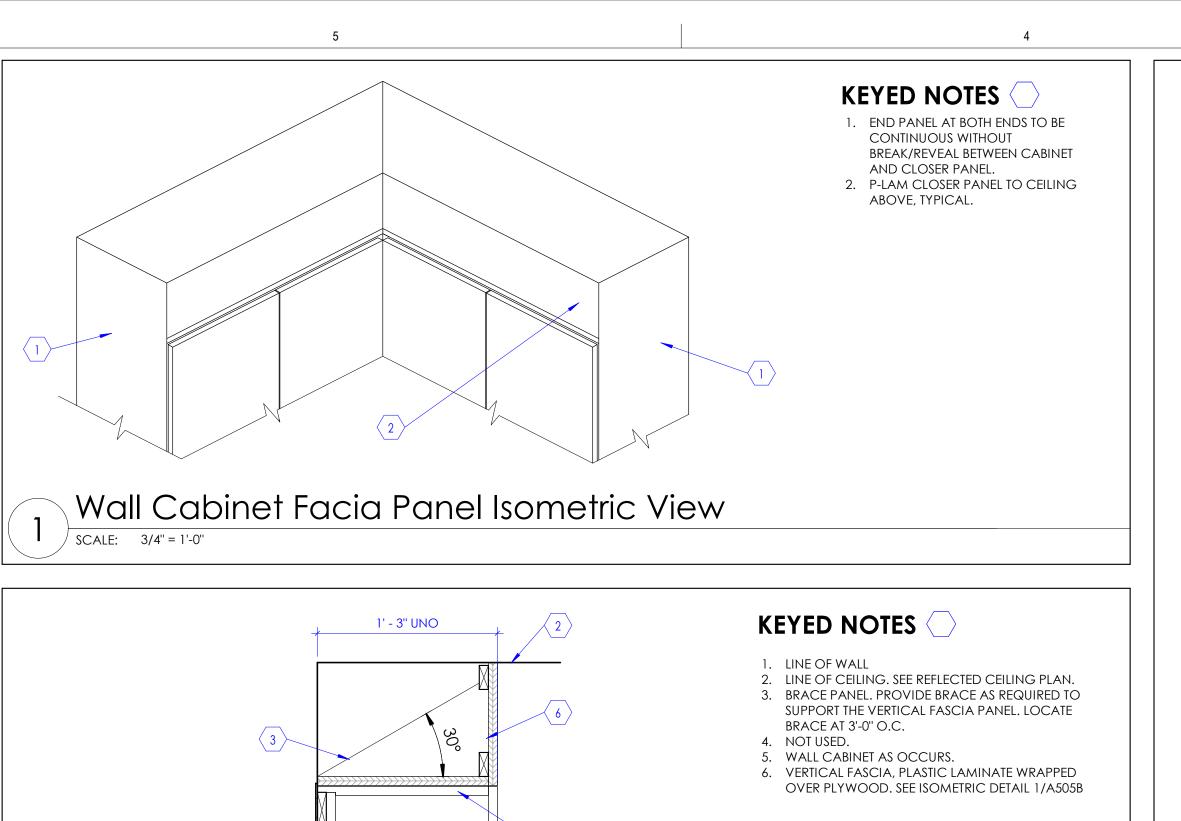




Cabinet Legend & Details

Sheet Number

A505A



# 4. SOLID WOOD BLOCKING, TYPICALLY ATTACHED TO CABINET BODY. . COUNTERTOP AND BACKSPLASH. SEE TYPICAL COUNTERTOP DETAIL 6 / A505B . CABINET BASE BOX. BOX SHALL BE BUILT WITH PLYWOOD, 3/4" THICK, PRESSURE TREATED. BASE BOX SHALL BE ANCHORED TO FLOOR WITH STEEL "L" CLIPS AND FASTENERS AS REQUIRED. BASE CABINET SHALL BE ATTACHED TO THE BASE BOX. 7. LINE OF FLOOR. 8. NEW WALL (OR EXISTING WALL WHERE OCCURS). SEE WALL TYPE FOR WALL CONSTRUCTION.

**KEYED NOTES** 

2. FASTENERS AS REQUIRED. ALIGN WITH STUDS WHERE POSSIBLE

3. STEEL BACKING PLATE. SEE DETAIL 5/A502A (BACKING PLATE, TYPE 2).

EXTEND 6 INCHES BEYOND LENGTH OF CABINETS ON EACH SIDE.

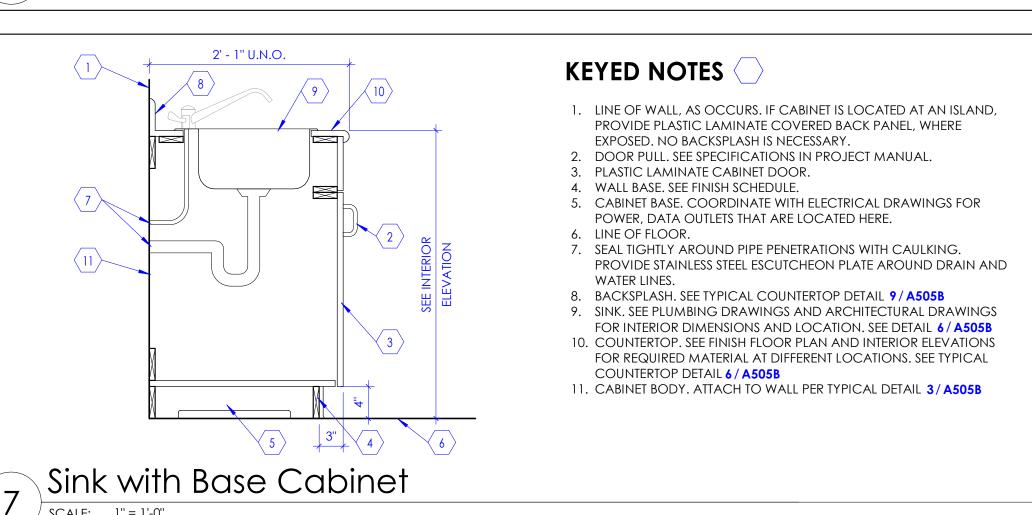
1. LINE OF WALL.

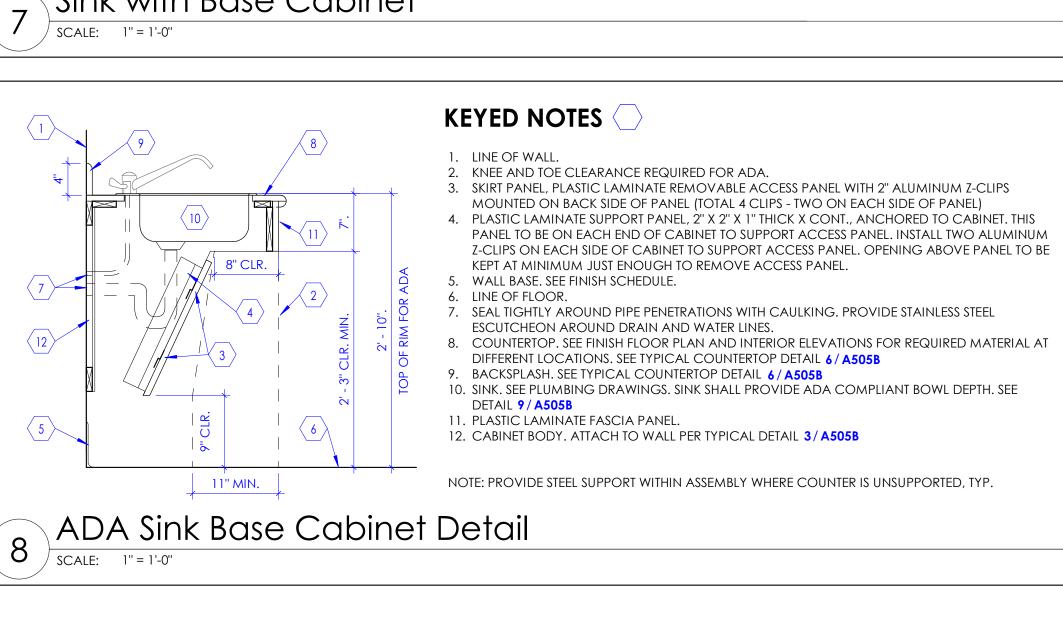
Typical Cabinet Body Attachment to Walls

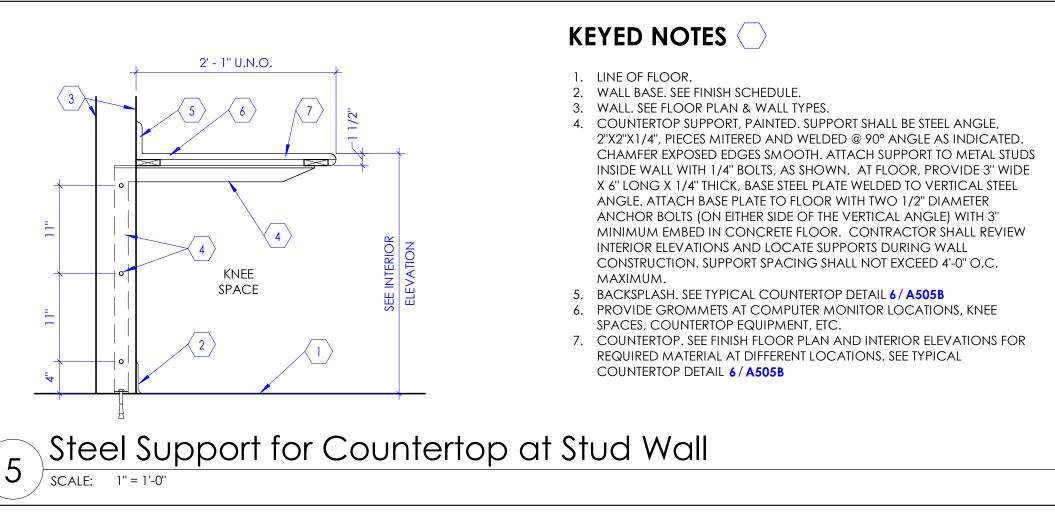
## **KEYED NOTES** 2' - 1" U.N.O. 1. LINE OF FLOOR. WALL BASE. SEE FINISH SCHEDULE 3. LINE OF MASONRY OR CONCRETE WALL AS OCCURS. 4. COUNTERTOP SUPPORT, PAINTED. SUPPORT SHALL BE STEEL ANGLE, 2"X2"X1/4", PIECES MITERED AND WELDED @ 90° ANGLE AS INDICATED CHAMFER EXPOSED EDGE (BELOW COUNTERTOP EDGE) AND GRIND ALL EXPOSED EDGES SMOOTH. ATTACH SUPPORT TO MASONRY OR CONCRETE WALL WITH 3/8" EPOXY BOLTS, AS SHOWN. SUPPORTS SHALL BE LOCATED VERTICALLY ON WALL AT 4'-0" O.C. MAXIMUM. 5. BACKSPLASH. SEE TYPICAL COUNTERTOP DETAIL 6 / A505B 6. PROVIDE GROMMETS AT COMPUTER MONITOR LOCATIONS, KNEE SPACES, COUNTERTOP EQUIPMENT, ETC. 7. COUNTERTOP. SEE FINISH FLOOR PLAN AND INTERIOR ELEVATIONS FOR REQUIRED MATERIAL AT DIFFERENT LOCATIONS. SEE TYPICAL COUNTERTOP DETAIL 6 / A505B Steel Support For Countertop at Masonry & Concrete Walls

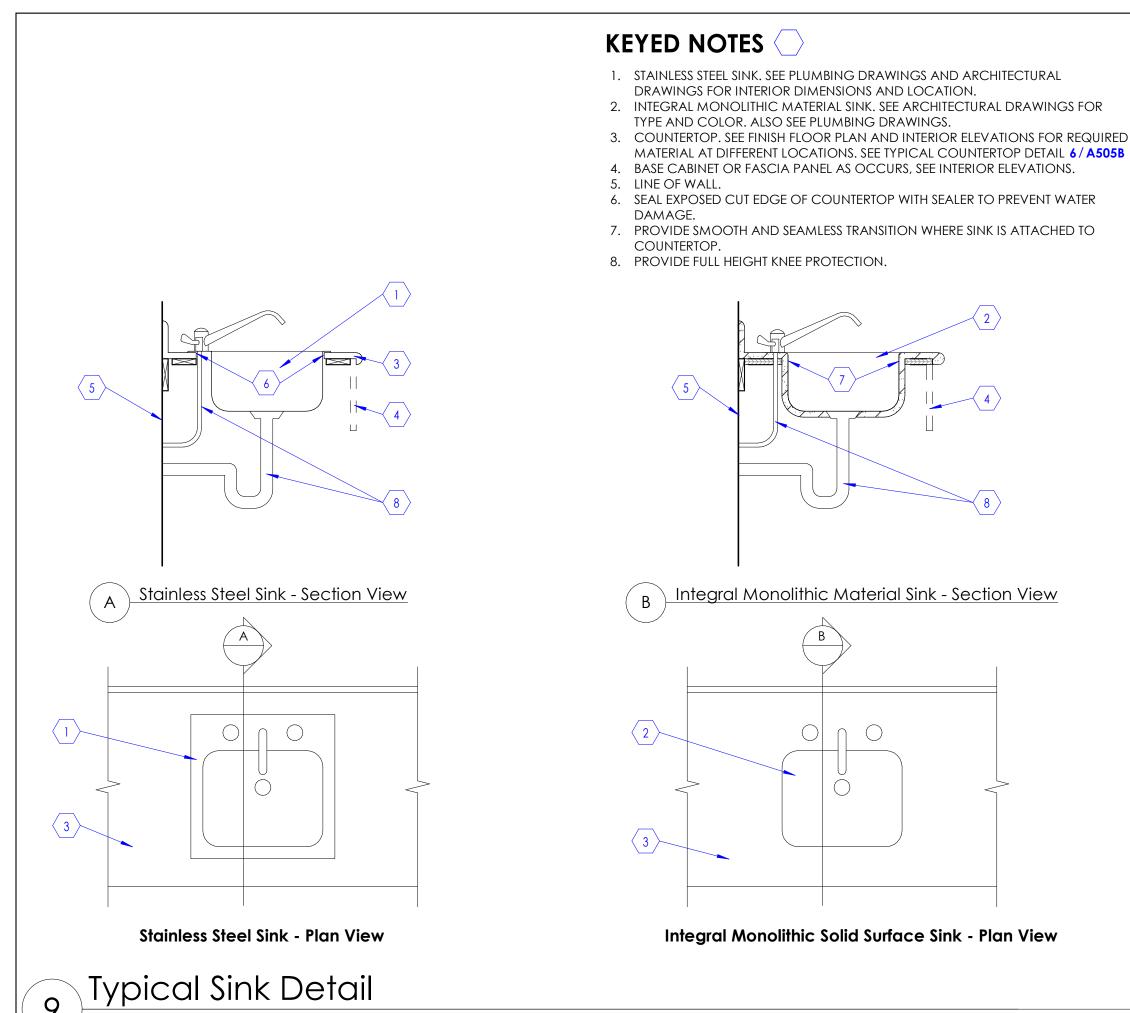
VERTICAL FASCIA

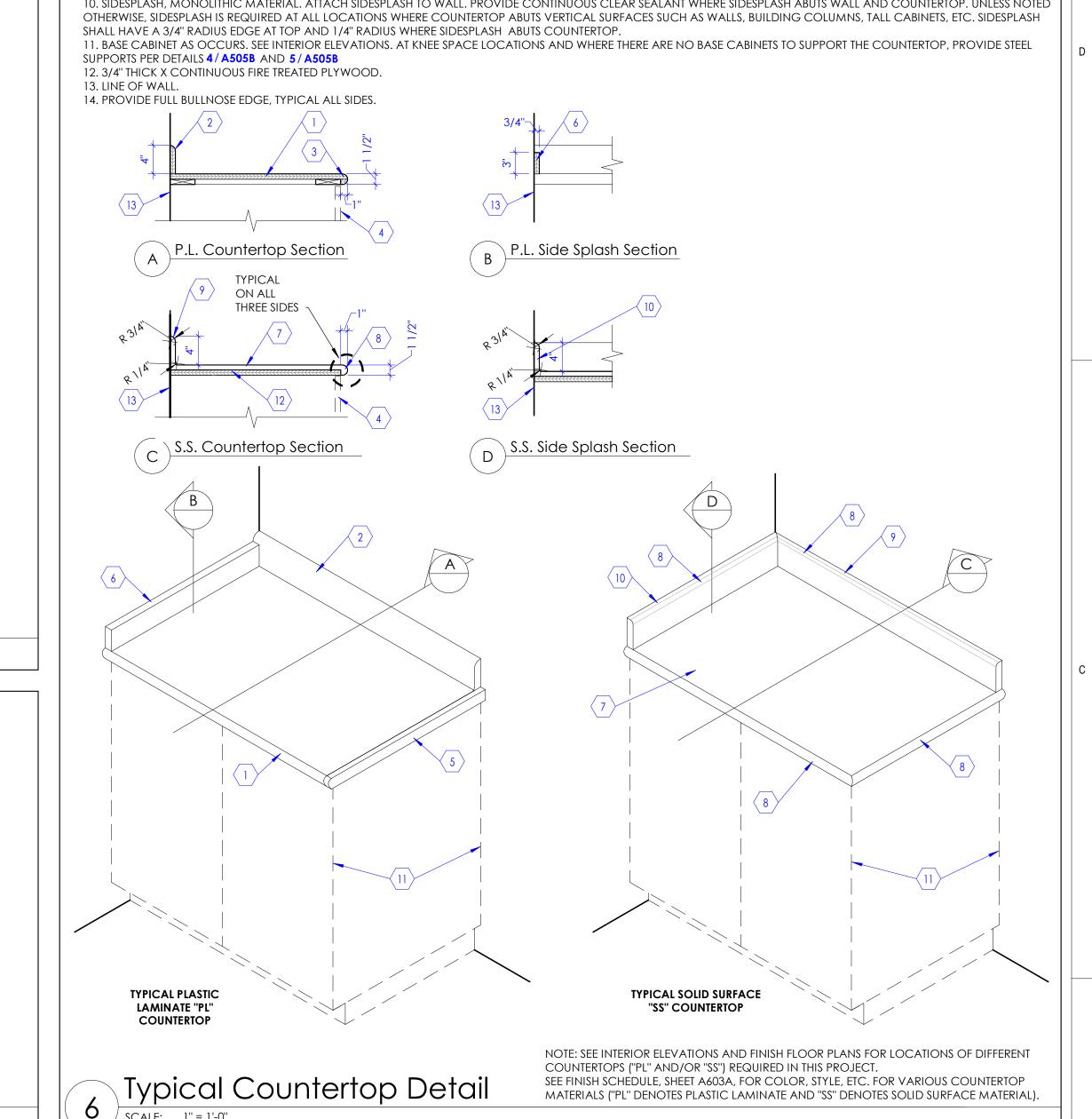
Wall Cabinet Fascia











1. COUNTERTOP. PLASTIC LAMINATE WRAPPED OVER WOOD SUBSTRATE, 3/4" THICK. SUBSTRATE SHALL BE AS PER ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS FOR

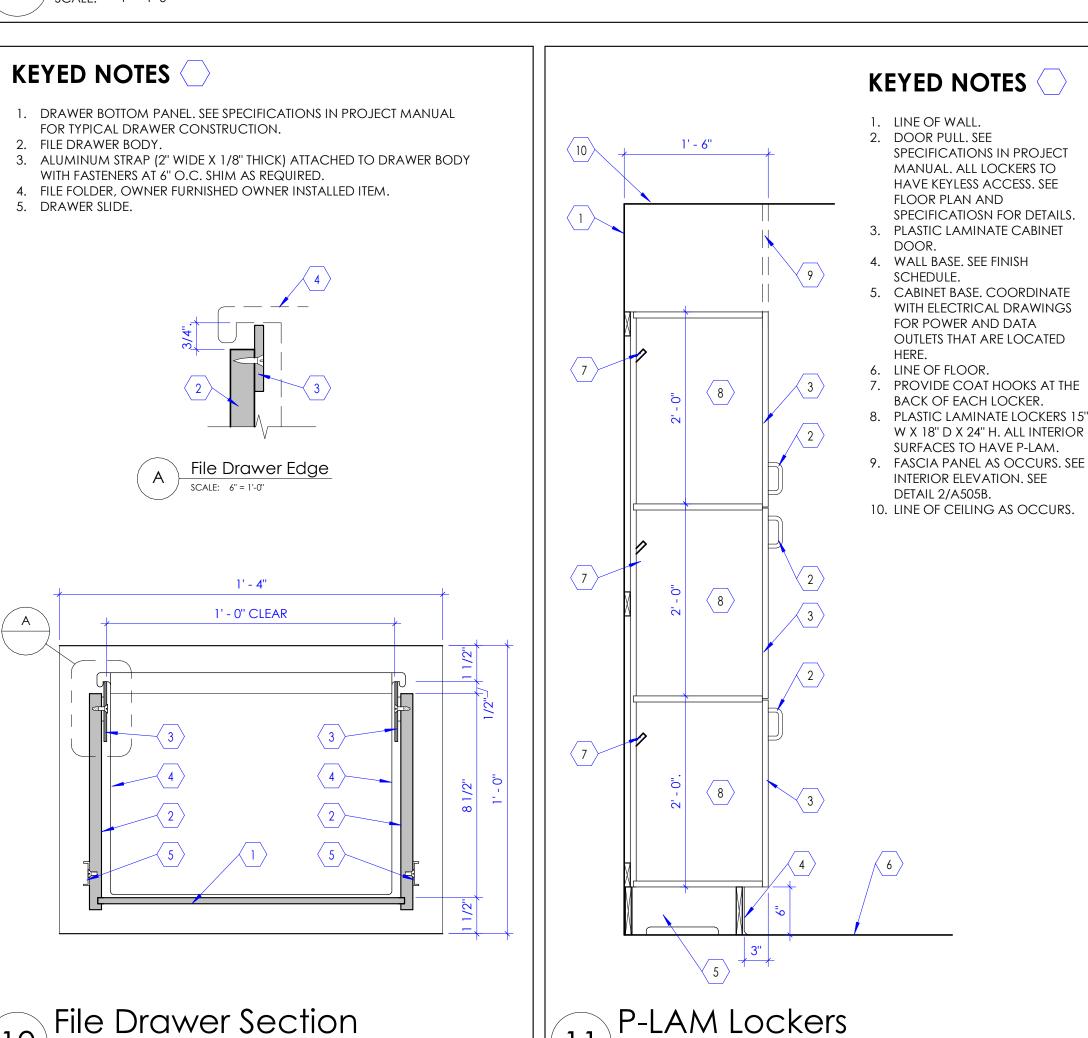
2. BACKSPLASH, INTEGRAL. PLASTIC LAMINATE SHALL RUN CONTINUOUSLY FROM COUNTERTOP TO BACKSPLASH. BACKSPLASH SHALL HAVE A 3/4" RADIUS EDGE AT TOP AND 1/4"

6. SIDESPLASH. PLASTIC LAMINATE OVER WOOD SUBSTRATE, 3/4" THICK. SUBSTRATE SHALL BE AS PER ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS FOR "PREMIUM"

GRADE. PROVIDE CONTINUOUS CLEAR SEALANT WHERE SIDESPLASH ABUTS WALL AND COUNTERTOP. UNLESS NOTED OTHERWISE, SIDESPLASH IS REQUIRED AT ALL LOCATIONS

9. BACKSPLASH, MONOLITHIC MATERIAL. ATTACH BACKSPLASH TO COUNTERTOP TO PERFORM AS INTEGRAL BACKSPLASH. PROVIDE CONTINUOUS CLEAR SEALANT WHERE

"PREMIUM" GRADE. PROVIDE FULL ROUND EDGE AS INDICATED. WHERE PLASTIC LAMINATE COUNTERTOP IS CALLED OUT AT SINK LOCATIONS, USE EXTERIOR GRADE MARINE







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ARCSITIO **GREAT BASIN Structural Engineer** Mechanical Engineer **Electrical Engineer** SPECTRUM Plumbing Engineer RUBY THORP

**VAN BOERUM & FRANK VAN BOERUM & FRANK** ROBERT GRIESCHE

**Sheet Reviewer** Author DESCRIPTION

Civil Engineer

Interior Designer

**Equipment Planner** 

Project Number

RAJAVELU

**Cabinet Details** 

A505B

100% Construction Documents

**KEYED NOTES** 

4. BASE CABINET DOOR AS OCCURS.

PLYWOOD WITH AN IMPERVIOUS SEAL, SEE DETAIL 9/A505B

RADIUS WHERE BACKSPLASH ABUTS COUNTERTOP AS INDICATED.

3. PROVIDE FULL ROUND (BULL NOSE) EDGE AT ALL PLASTIC LAMINATE COUNTERTOPS, TYPICAL.

PROVIDE FULL ROUND (BULL NOSE) EDGE AT ALL SOLID SURFACE COUNTERTOPS, TYPICAL

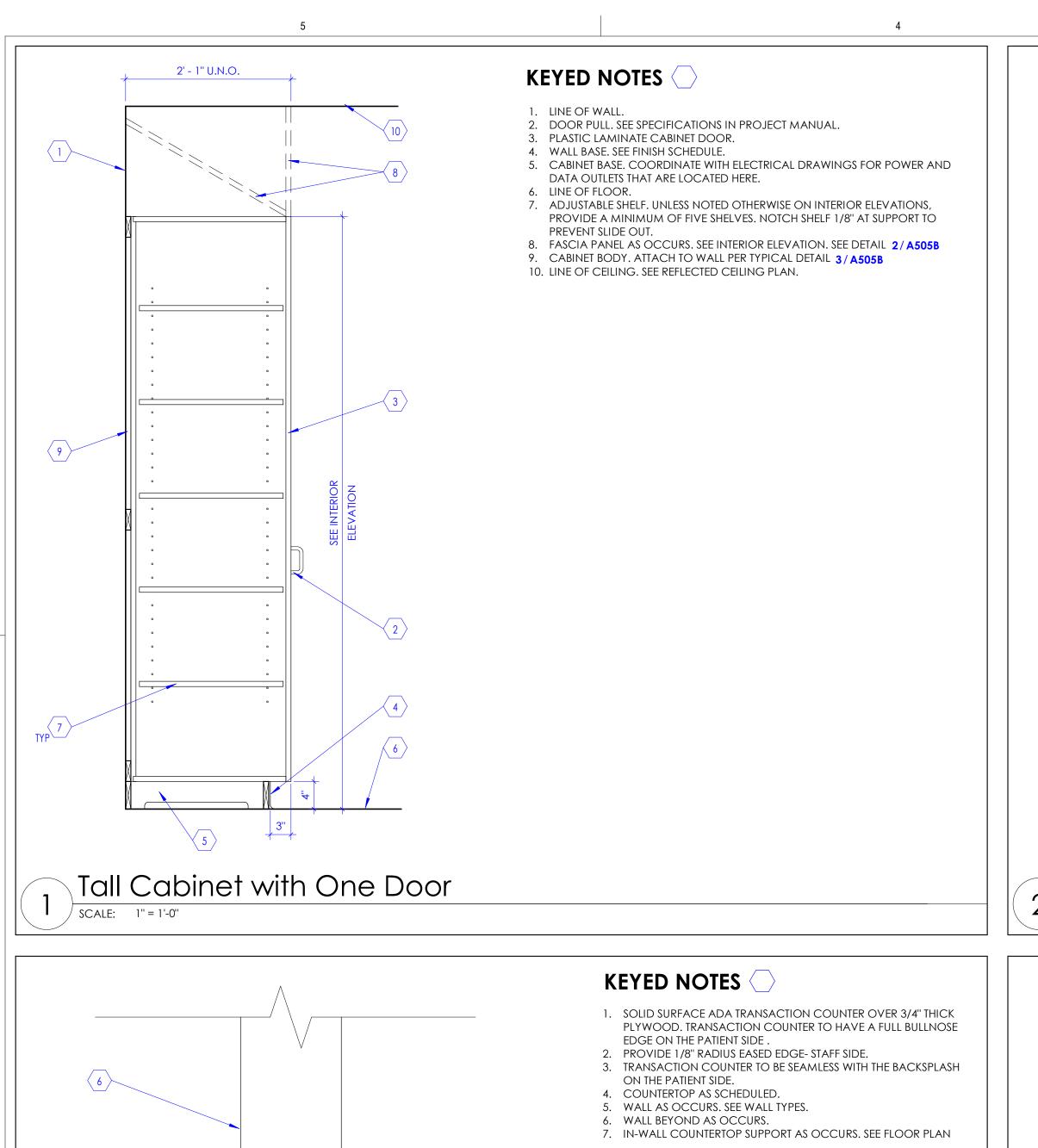
WHERE COUNTERTOP ABUTS VERTICAL SURFACES SUCH AS WALLS, BUILDING COLUMNS, TALL CABINETS, ETC.

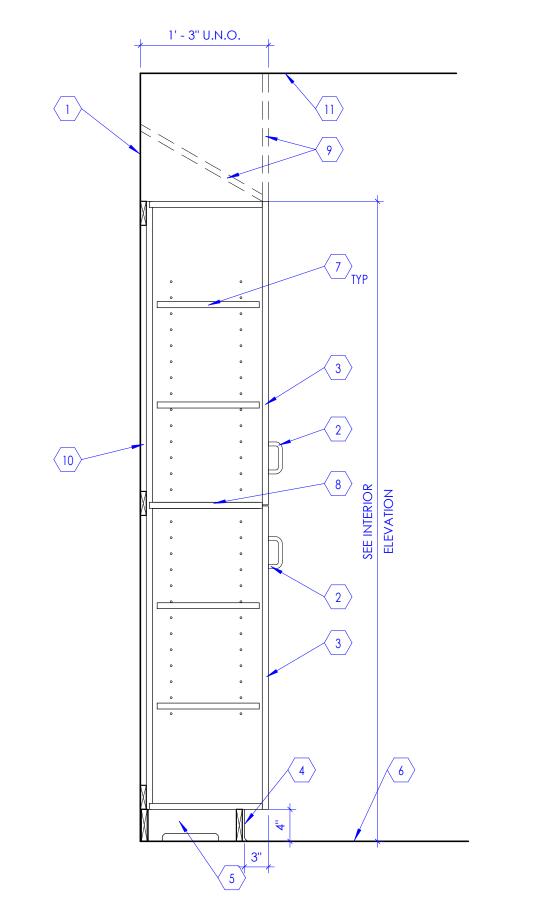
COUNTERTOP, MONOLITHIC MATERIAL. ATTACH COUNTERTOP TO BASE CABINET AND/OR STEEL SUPPORTS WHERE OCCURS.

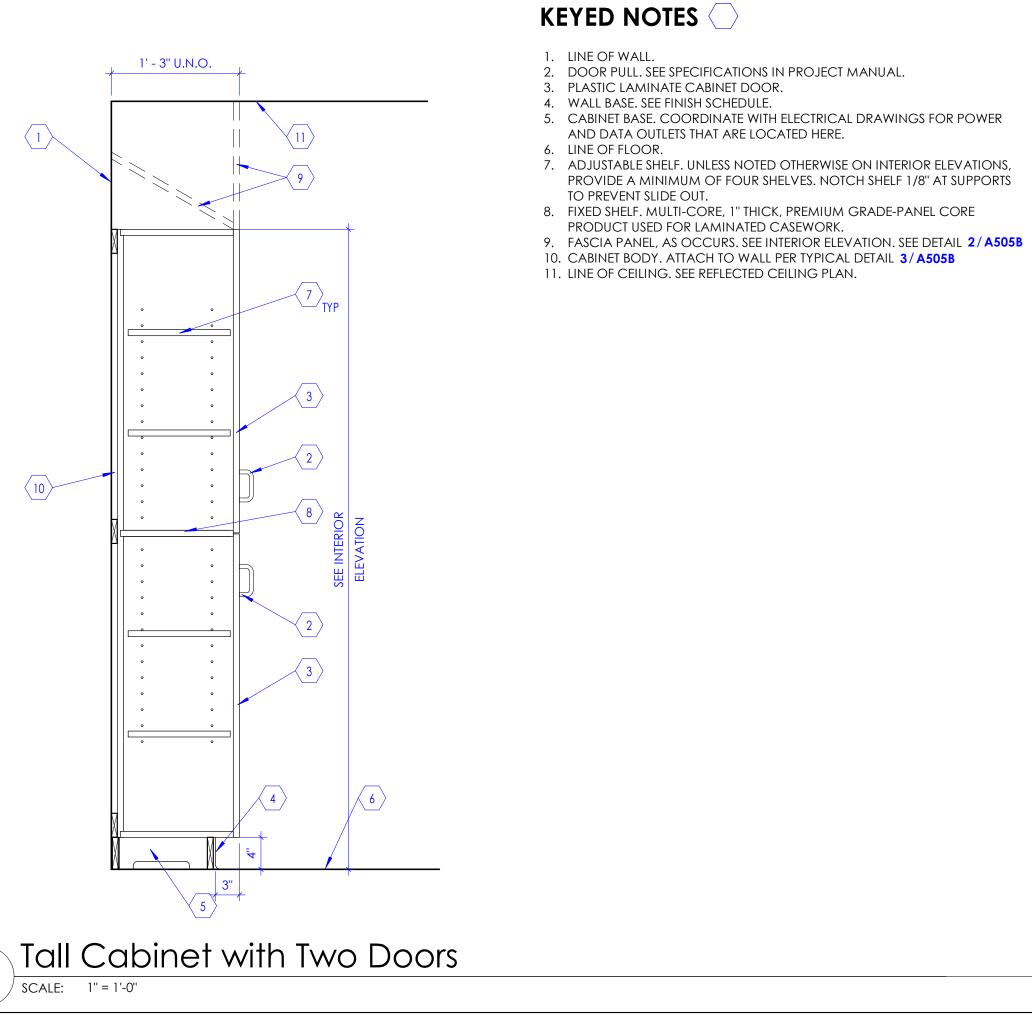
5. EXPOSED END OF THE COUNTERTOP SHALL BE WRAPPED WITH PLASTIC LAMINATE.

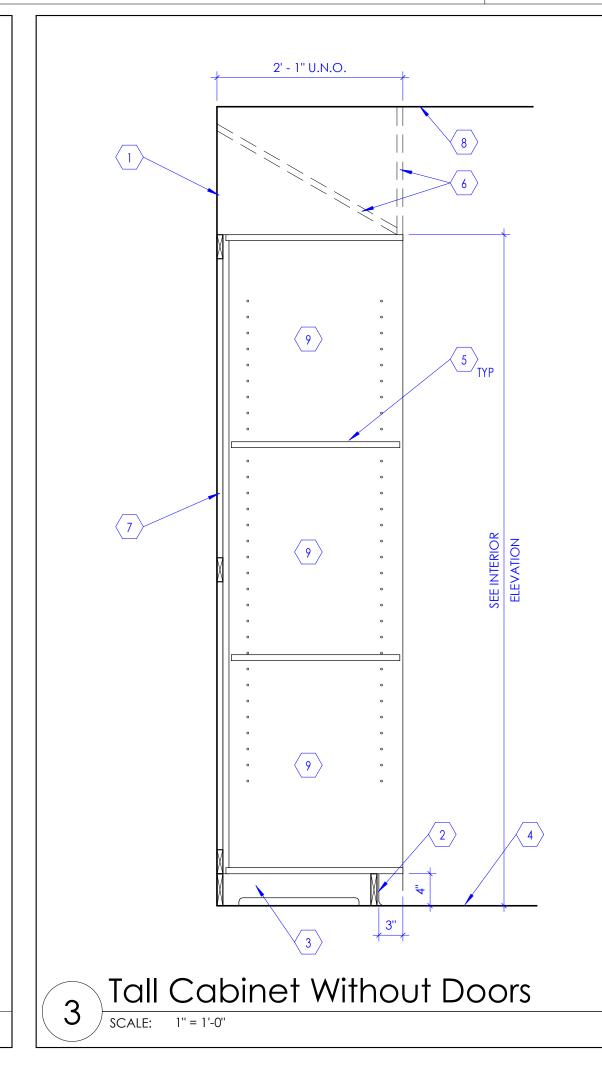
File Drawer Section

SCALE: 3" = 1'-0"









## **KEYED NOTES** LINE OF WALL. WALL BASE. SEE FINISH SCHEDULE. 3. CABINET BASE. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER AND DATA OUTLETS THAT ARE LOCATED HERE. 4. LINE OF FLOOR. 5. ADJUSTABLE SHELF. UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS. NOTCH SHELF 1/8" AT SUPPORTS TO PREVENT SLIDE OUT. 6. FASCIA PANEL AS OCCURS. SEE INTERIOR ELEVATION. SEE DETAIL 2/A505B 7. CABINET BODY. ATTACH TO WALL PER TYPICAL DETAIL 3/A505B

8. LINE OF CEILING. SEE REFLECTED CEILING PLAN.

9. ALL EXOSED TO VIEW SURFACES TO HAVE P-LAM.

**KEYED NOTES** 

3. PLASTIC LAMINATE CABINET DOOR.

SUPPORT TO PREVENT SLIDE OUT.

ELEVATION. SEE DETAIL 2/A505B

11. 1" THICK, P-LAM FIXED SHELF.

DATA OUTLETS THAT ARE LOCATED HERE.

10. LINE OF CEILING. SEE REFLECTED CEILING PLAN.

12. STAINLESS STEEL CLOSET ROD. NON ADJUSTABLE.

13. ALL INTERIOR SURFACES OF CABINET TO HAVE P-LAM.

2. DOOR PULL. SEE SPECIFICATIONS IN PROJECT MANUAL.

WALL BASE. SEE FINISH SCHEDULE.
 CABINET BASE. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER AND

ELEVATIONS, PROVIDE A MINIMUM OF FIVE SHELVES. NOTCH SHELF 1/8" AT

7. P-LAM ADJUSTABLE SHELF. UNLESS NOTED OTHERWISE ON INTERIOR

8. P-LAM CABINET FASIA PANEL TO CEILING/SOFFIT ABOVE. SEE INTERIOR

9. CABINET BODY. ATTACH TO WALL PER TYPICAL DETAIL 3/A505B

1. LINE OF WALL.

6. LINE OF FLOOR.



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Logan, UT 84341



Intermountain Healthcare

TERRI SUDBROOK

ERIC MEUB FRANK PENROSE

**GREAT BASIN** 

SPECTRUM

RUBY THORP

ROBERT GRIESCHE

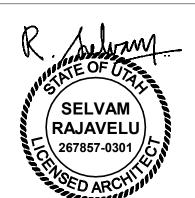
**VAN BOERUM & FRANK** 

VAN BOERUM & FRANK

Project Manager **Project Designer** Project Architect Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer **Electrical Engineer** Plumbing Engineer Interior Designer **Equipment Planner** 

Wayfinding Sheet Reviewer MARK DATE DESCRIPTION

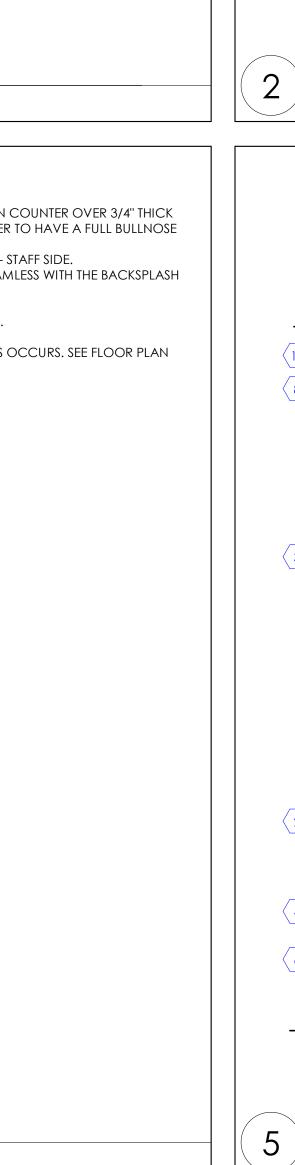
**Project Number** Original Issue

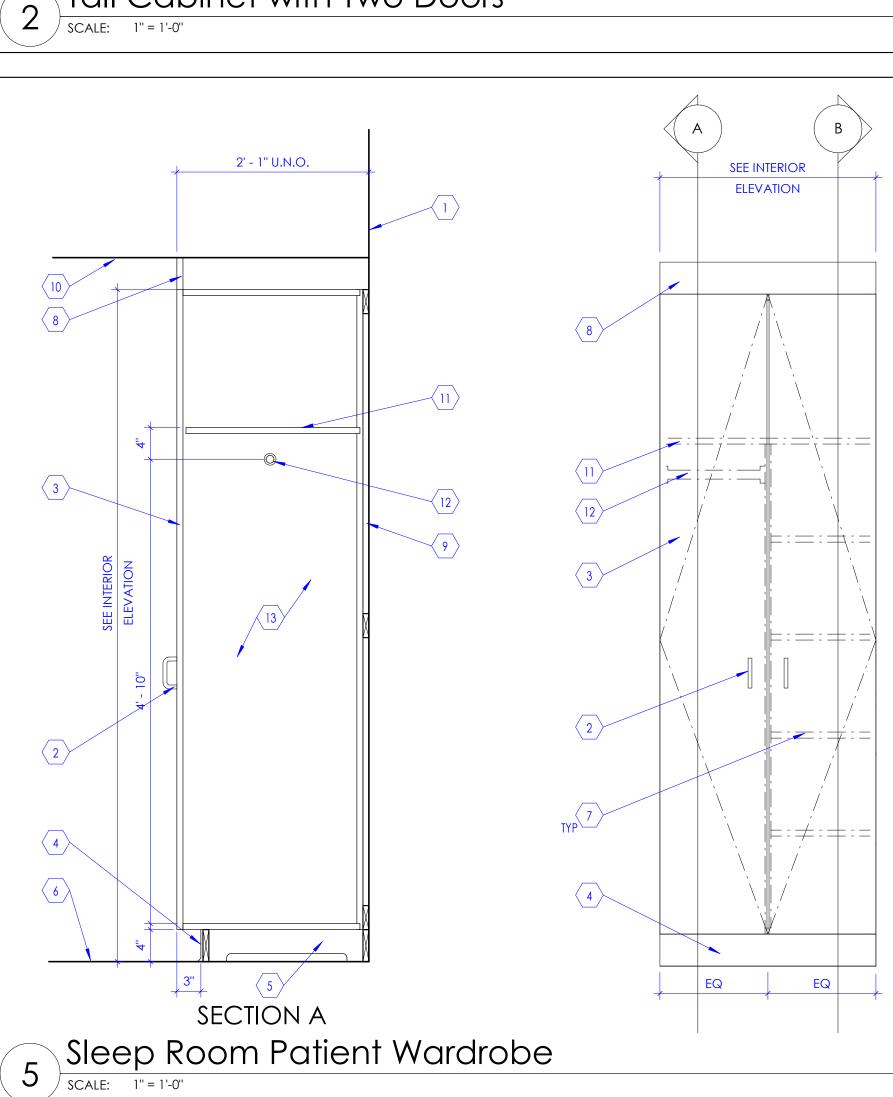


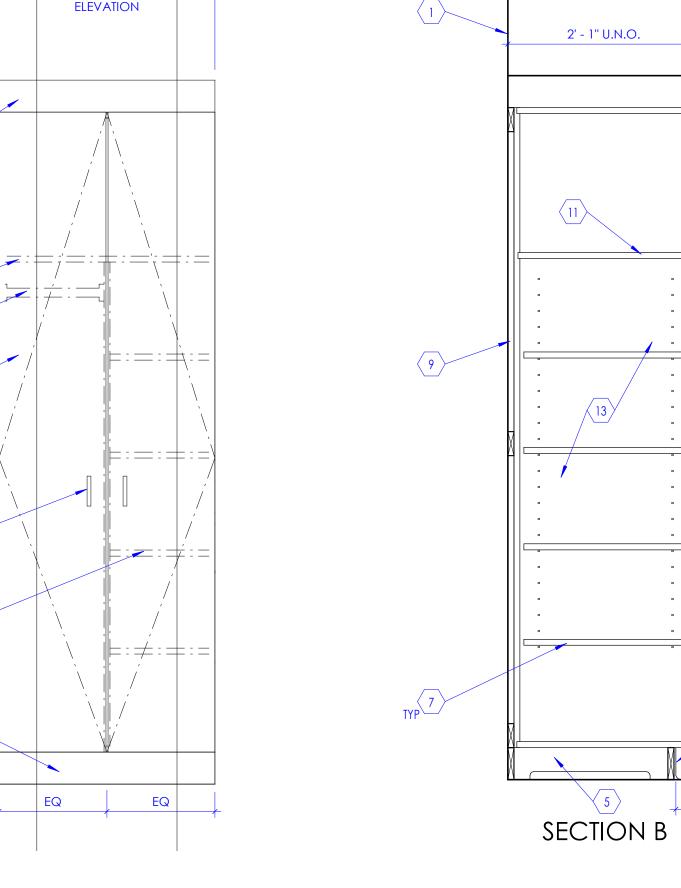
**Cabinet Details** 

A505C

100% Construction Documents







KEYED NOTES

 BACK PANEL. PROVIDE OPENING FOR DATA AND POWER CORDS.
 DRAWER PULL. SEE SPECIFICATIONS IN PROJECT MANUAL. 3. PLASTIC LAMINATE CABINET TOP.

CONSTRUCTION. 5. PLASTIC LAMINATE CABINET BASE.

6. LINE OF FLOOR. 7. ADJUSTABLE SHELF. NOTCH SHELF 1/8" AT SUPPORTS TO PREVENT SLIDE OUT. 8. DRAWER BOTTOM PANEL. SEE SPECIFICATIONS IN PROJECT MANUAL FOR

4. DRAWER. SEE SPECIFICATIONS IN PROJECT MANUAL FOR TYPICAL DRAWER

TYPICAL DRAWER CONSTRUCTION. CABINET BODY. SEE SPECIFICATIONS IN PROJECT MANUAL FOR TYPICAL

CABINET BODY CONSTRUCTION. ALL SURFACES TO HAVE P-LAM.

10. ALL EXPOSED TO VIEW SURFACES TO HAVE P-LAM.

Section Through Transaction Counter

4 SCALE: 3" = 1'-0"

1

PATIENT

SIDE

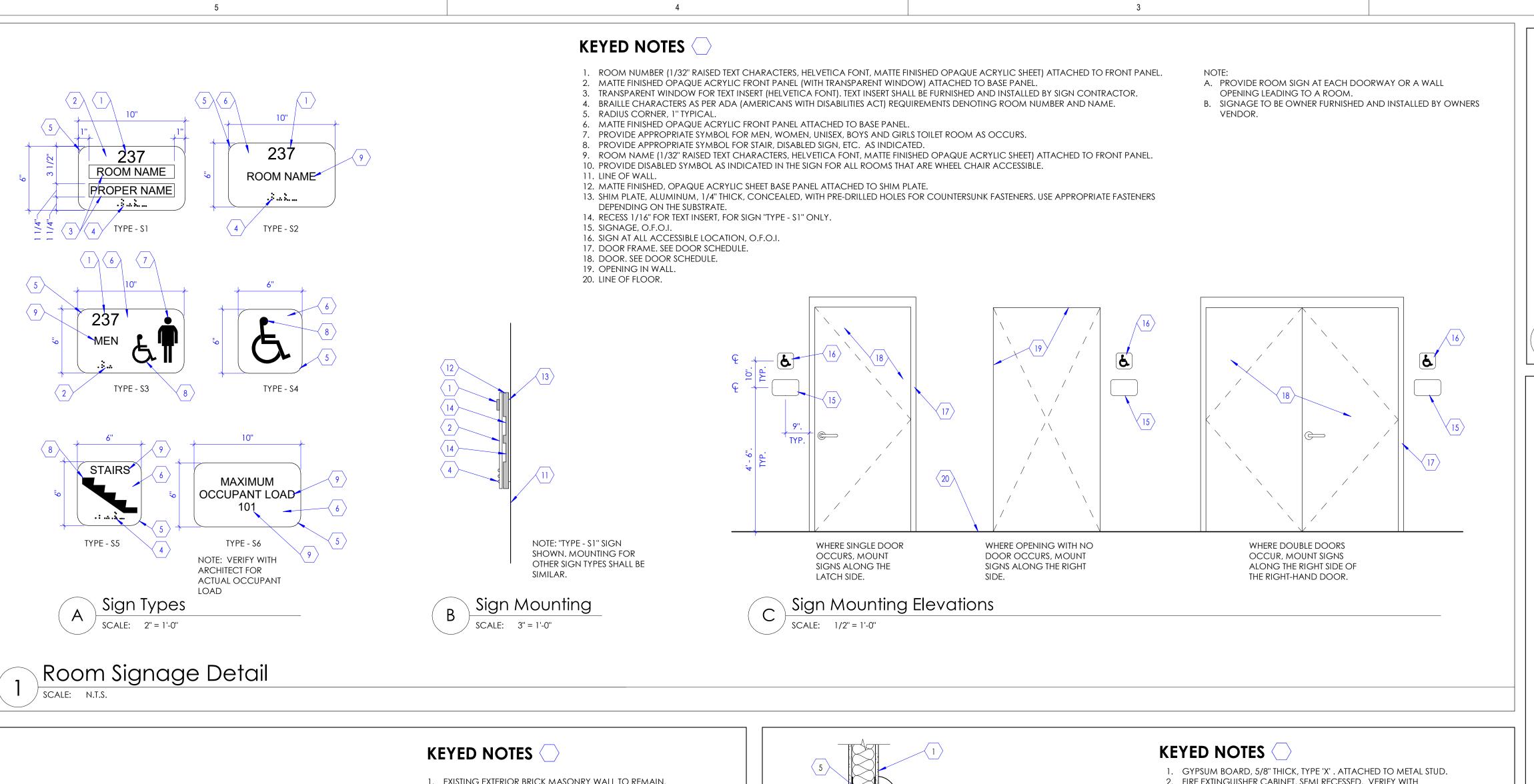
5

2'- 10"

STAFF

Free Standing Sleep Room Bedside Table

SCALE: 1" = 1'-0"



2. EXISTING STEEL LINTEL. CLEAN AND PAINT LINTEL TO MATCH COLOR

3. EXISTING TUBE STEEL POSTS BEYOND TO SUPPORT LINTEL. PAINT TO

4. EXISTING WINDOW SYSTEM TO REMAIN. PROTECT DURING

5. SOLID SURFACE WINDOW SILL OVER 3/4" THICK PLYWOOD.

6. MANUAL ROLLER SHADE (SUNSCREEN + BLACKOUT. BASIS OF DESIGN MECHO SHADE, MECHO/5 TWO BRACKETS SIDE BY SIDE.

8. CEILING AT SLEEP ROOMS TO HAVE TWO LAYES OF 5/8" THICK, TYPE

9. PROVIDE TWO 3/4" THICK FIRE TREATED PLYWOOD BLOCKING FOR THE ENTIRE WIDTH AND LENGHT OF ROLLER SHADES. ATTACH TO

11. METAL STUD LATERAL (45 DEGREE) BRACING, 3-5/8" THICK, 18 GA AT

12. WALL AS OCCURS. PROVIDE TWO LAYERS OF OF 5/8" THICK, TYPE X'

13. NEW KRAFT FACED BATT INSULATION FOR THE FULL DEPTH OF THE

14. BORATED TREATED LOOSE FILL BLOWN-IN CELLULOSE INSULATION -

10. METAL STUDS, 6" THICK, 18 GA AT 16" O.C. ATTACHED TO DECK

MATCH COLOR OF WINDOW MULLIONS.

. PROVIDE SNAPLOC FACIA. COLOR - WHITE

16" O.C. ATTACHED TO DECK ABOVE.

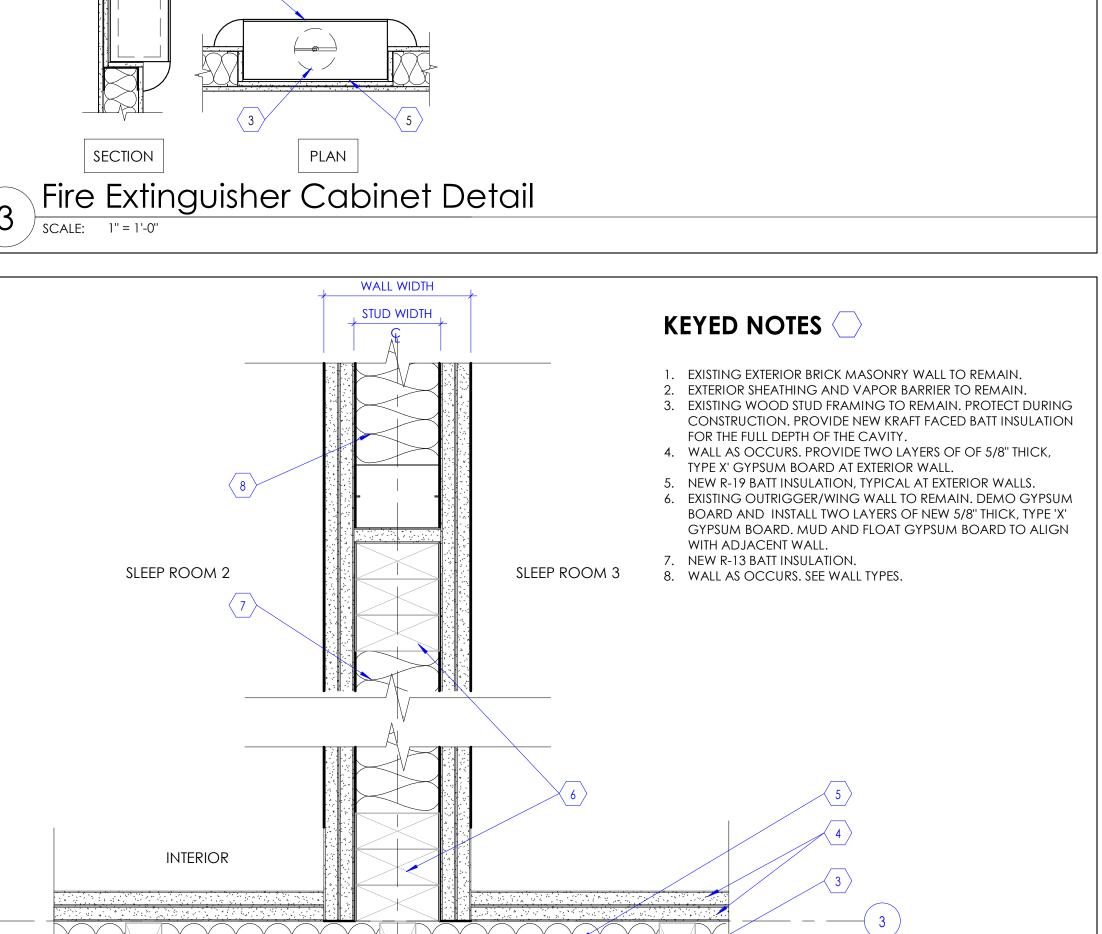
GYPSUM BOARD AT EXTERIOR WALL.

PROVIDE FULL BULLNOSE EDGE.

X' GYPSUM BOARD.

**CEILING CAVITY** 

VERTICAL STUDS ABOVE.

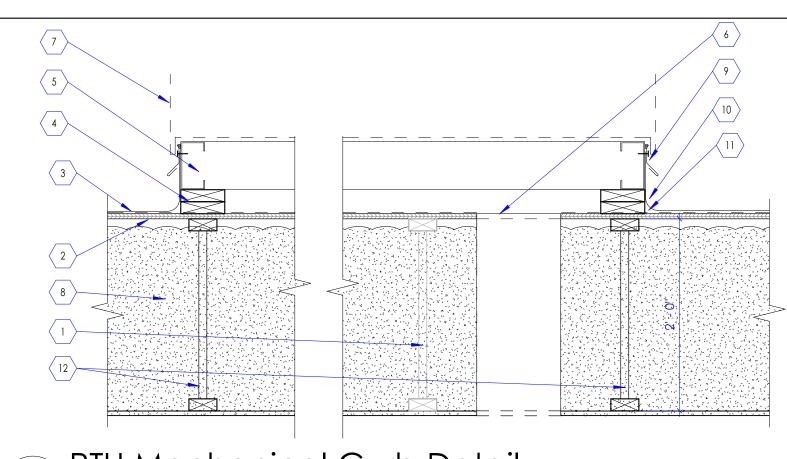


MANUFACTURER FOR ROUGH OPENING SIZE REQUIREMENTS.

5. COVER ALL SIDES OF CABINET WITH 5/8" THICK, TYPE 'X' GYPSUM BOARD.

3. HAND HELD FIRE EXTINGUISHER.

4. CABINET DOOR.



RTU Mechanical Curb Detail

## **KEYED NOTES** 1. EXISTING ROOF JOIST. 2. EXISTING ROOF SHEATHING. PATCH/REPAIR/REPLACE AS REQUIRED FOR INSTALLATION OF ALL M/E/P/S ITEMS. NEW SHEATHING TO MATCH ADJACENT EXISTING. 3. EXISTING ROOFING MEMBRANE AND VAPOR BARRIER. PATCH/REPAIR/REPLACE AS REQUIRED FOR INSTALLATION OF ALL M/E/P/S . TWO 2X6 PRESSURE TREATED LUMBER ON ALL FOUR SIDES. SEE STRUCTURAL DRAWINGS. PRE-FABRICATED MECHANICAL CURB BY MECHANICAL CONTRACTOR. SEE MECHANICAL DRAWINGS. 6. OPENING AS REQUIRED. SEE MECHANICAL

. NEW ROOF TOP MECHANICAL UNIT. SEE

8. BLOW-IN LOOSE FILL CELLULOSE INSULATION.

9. METAL FLASHING/COUNTER FLASHING AND

12. NEW ADDED WOOD JOISTS AS OCCUR. SEE

10. NEW ROOF MEMBRANE TO MATCH

MECHANICAL DRAWINGS.

CAULKING, TYPICAL.

ADJACENT EXISTING. 11. CANT STRIP, TYPICAL.

**KEYED NOTES** 

STRUCTURAL DRAWINGS.



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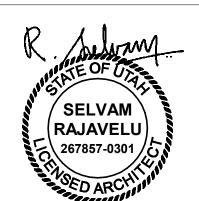
TERRI SUDBROOK

Project Manager **Project Designer** ERIC MEUB Project Architect FRANK PENROSE Landscape Architect ARCSITIO Civil Engineer **GREAT BASIN Structural Engineer Mechanical Engineer VAN BOERUM & FRANK** Electrical Engineer Plumbing Engineer Interior Designer **Equipment Planner** 

SPECTRUM **VAN BOERUM & FRANK** RUBY THORP ROBERT GRIESCHE Author

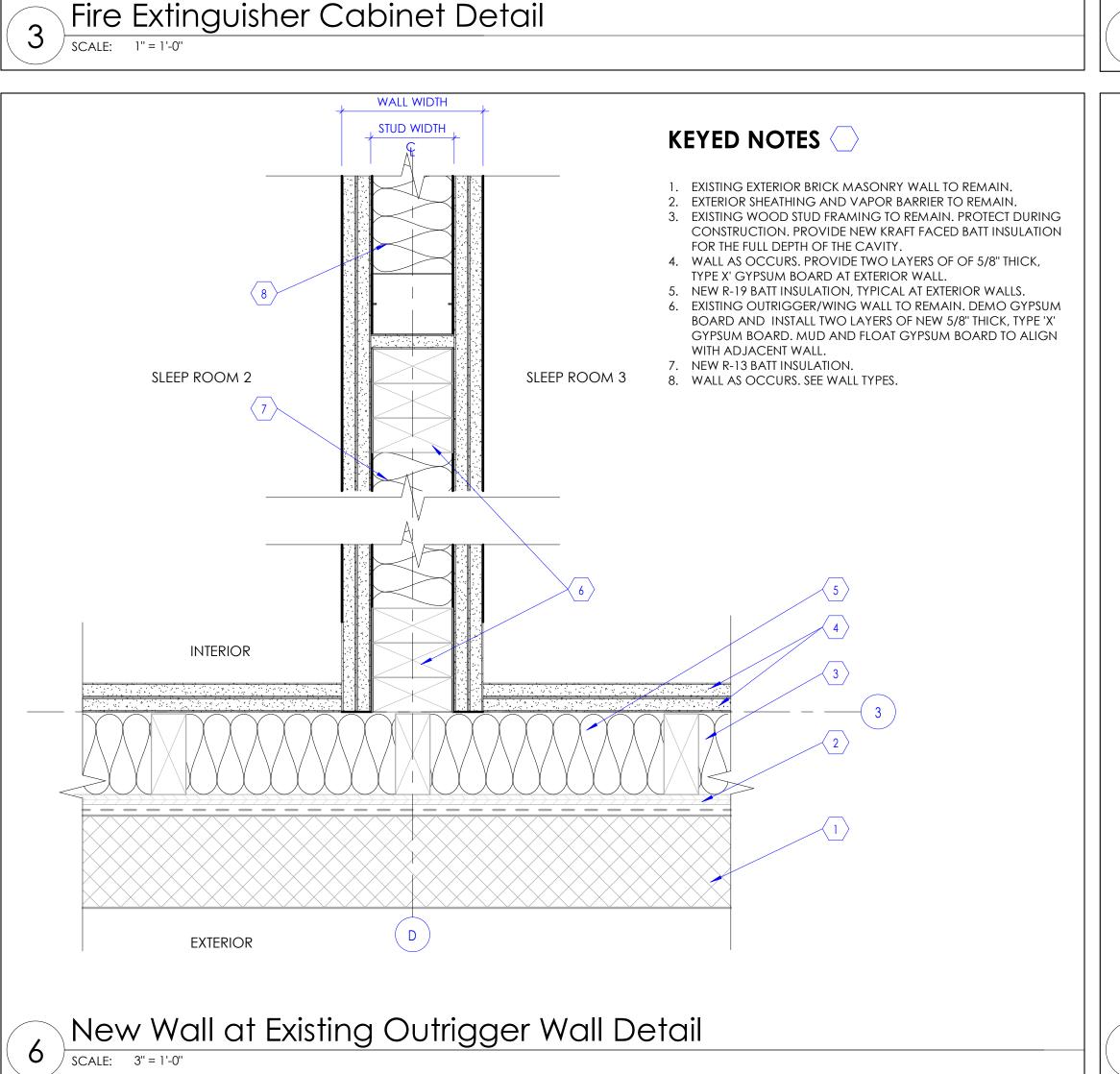
Sheet Reviewer

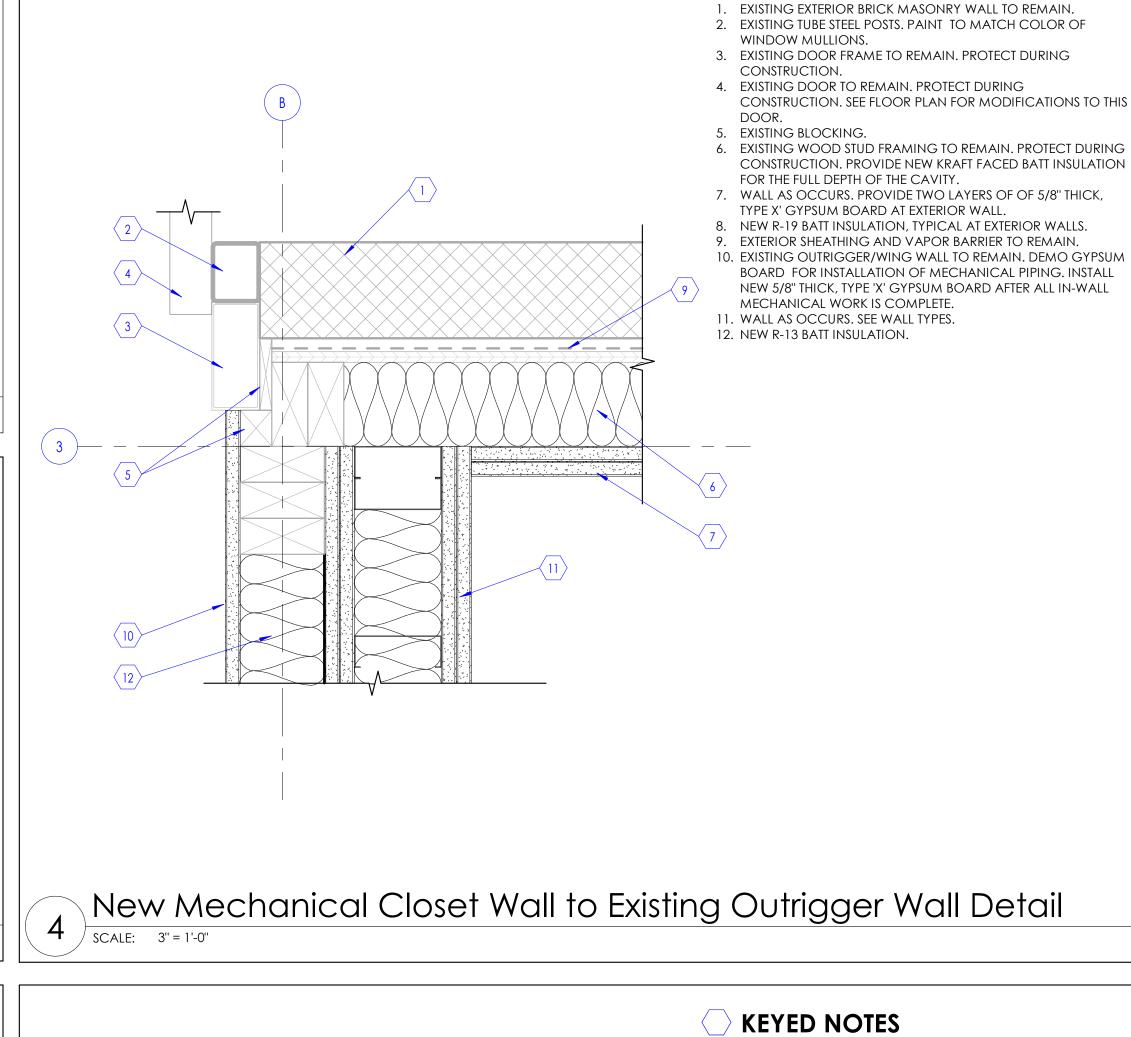
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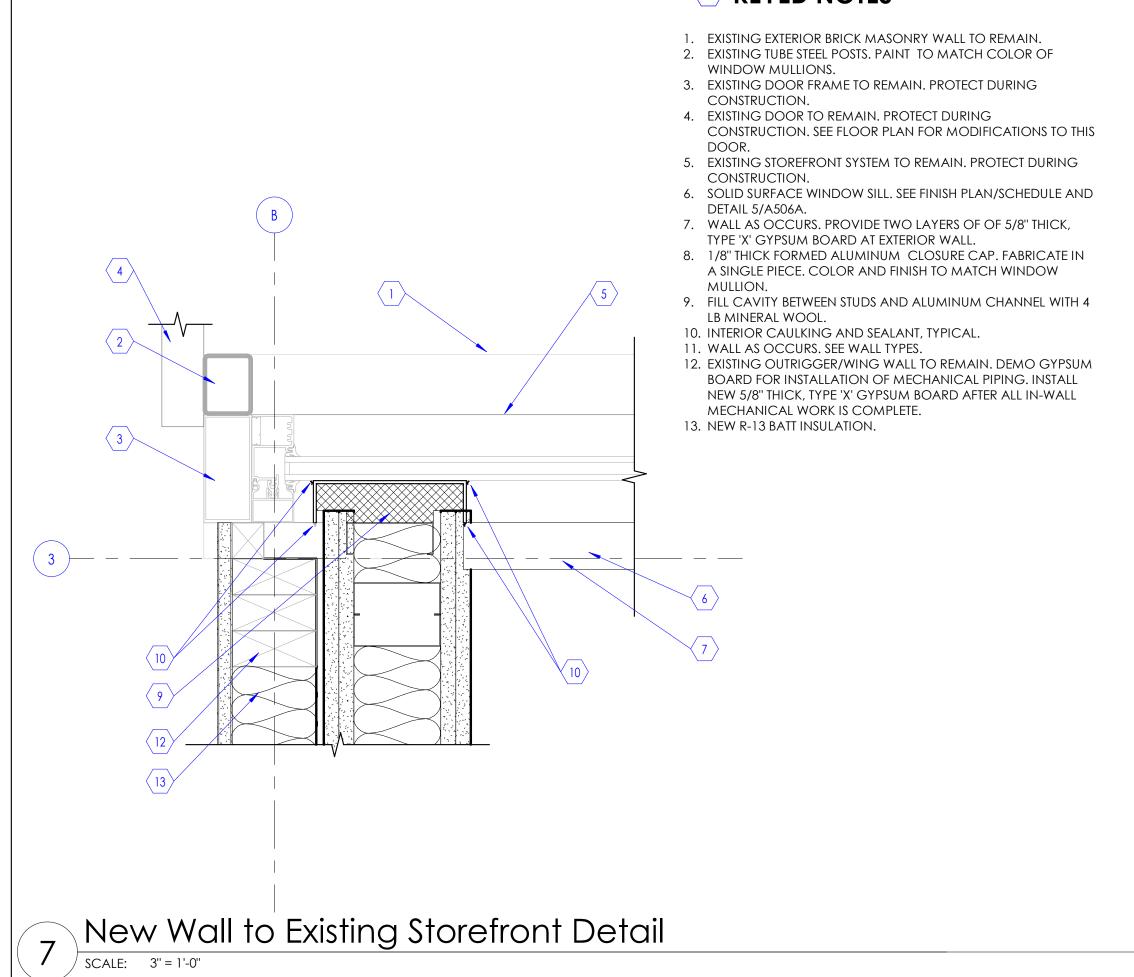


**A506A** 

100% Construction Documents

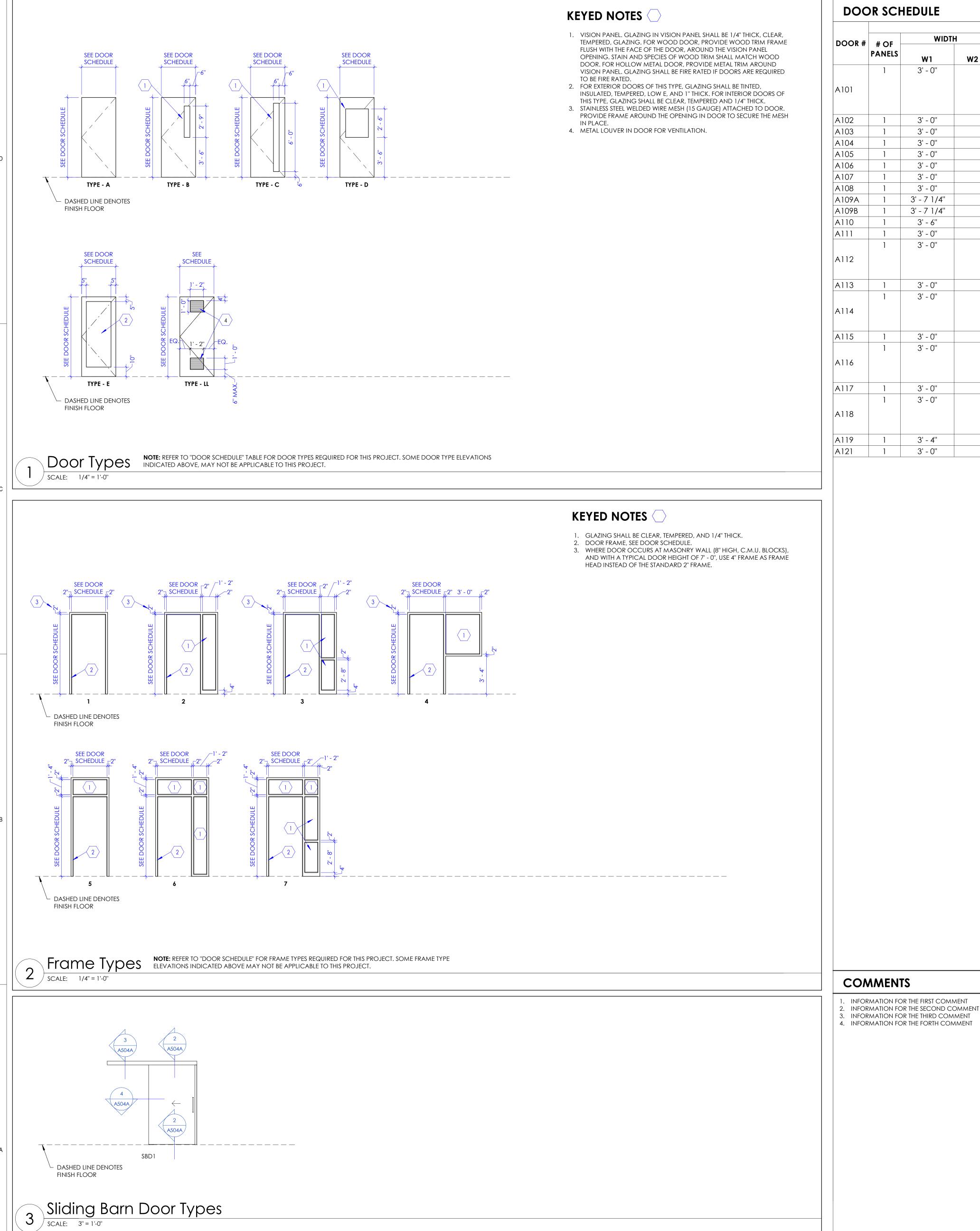






**EXTERIOR** Ceiling Mount Roller Shade Detail

SCALE: 3" = 1'-0"



### **DETAILS** DOOR FRAME SIZE HARDWARE WIDTH RATING DOOR # COMMENTS DOOR # # OF GROUP DEPTH MATERIAL JAMB HEAD THRESHOLD (MINUTES) (2/A601A) W2 | HEIGHT | THICKNESS | MATERIAL | (1/A601A) 7' - 10" EXIST **EXIST EXIST** EXIST EXIST CR. INSTALL CARD EXIST ALUM READER ON MULLION OF EXISTING A101 ALUMINUM STOREFRONT DOOR 1/A504A 1/A504A A603A $\mathsf{HM}$ A102 1 3' - 0'' 7' - 0" | 1 3/4" WD 5 7/8" 4 3' - 0'' 7' - 0'' 1 3/4" WD 5 7/8" 1/A504A 1/A504A A603A A103 CR 1 3' - 0'' 7' - 0'' 1 3/4" WD 5 7/8" 1/A504A 1/A504A A603A A104 3' - 0'' 7' - 0'' 1 3/4" WD 5 7/8" 1/A504A 1/A504A A105 3 CR 1 3' - 0" 7' - 0'' WD A106 5.1 1 3/4" 5 7/8" 1/A504A 1/A504A 3' - 0'' 7' - 0'' 1 3/4" WD 5 7/8" 1/A504A 1/A504A 45 2 CR WD 3' - 0'' 7' - 0'' 1 3/4" 5 7/8" 1/A504A 1/A504A 1 3' - 7 1/4" 7' - 0" | PER MFG. WD PER MFG. 4/A504A 2/A504A A109A 10 1 3' - 7 1/4" 7' - 0" | PER MFG. WD PER MFG. 4/A504A | 2/A504A | A603A A109B 10 7' - 0'' WD 5 7/8'' 1/A504A A603A 2.1 CR 3' - 6'' 1 3/4" 1/A504A A110 45 3' - 0'' 7' - 0'' 1 3/4" WD 7 1/8'' $\mathsf{HM}$ 1/A504A | 1/A504A | A603A A111 3' - 0'' 7' - 0'' INTEGRATED SOUND 1 3/4" WD 1/A504A | 1/A504A | CONTROL DOOR A112 ASSEMBLY. STC 50 RATING 3' - 0'' 7' - 0" | 1 3/4" 7 1/8'' 1/A504A | 1/A504A | A603A A113 WD $\mathsf{HM}$ INTEGRATED SOUND 3' - 0'' 7' - 0'' 1 3/4" WD 1/A504A 1/A504A A603A CONTROL DOOR 7 1/8'' A114 ASSEMBLY. STC 50 RATING 1/A504A 1/A504A A603A 3' - 0'' 7' - 0'' 1 3/4" WD 7 1/8" A115 3' - 0'' WD 7' - 0" | 1 3/4" 1/A504A | 1/A504A | A603A INTEGRATED SOUND CONTROL DOOR 7 1/8" A116 ASSEMBLY. STC 50

7 1/8''

7 1/8''

6 1/4"

5 7/8"

1/A504A | 1/A504A | A603A

1/A504A | 1/A504A | A603A

5/A504A | 6/A504A | A603A

1/A504A | 1/A504A | A603A

A117

A118

A119

7' - 0" | 1 3/4"

6' - 11" | 1 3/4"

7' - 0" 1 3/4"

7' - 0" | 1 3/4" |

3' - 0''

3' - 0''

3' - 4''

3' - 0''

WD

WD

 $\mathsf{HM}$ 

WD



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RATING

RATING

CR

1

INTEGRATED SOUND

CONTROL DOOR

ASSEMBLY. STC 50



Project Manager **Project Designer** Project Architect Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer Electrical Engineer Plumbing Engineer Interior Designer

**Equipment Planner** 

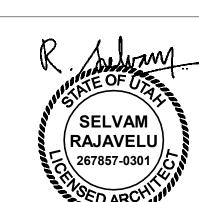
Wayfinding

TERRI SUDBROOK ERIC MEUB FRANK PENROSE **VAN BOERUM & FRANK VAN BOERUM & FRANK** RUBY THORP

ROBERT GRIESCHE

Sheet Reviewer DESCRIPTION MARK DATE

Project Number Original Issue



Door Schedule

A601A

FIN	IISH SCHEDULE							
AG	FINISH TYPE	SIZE	MATERIAL DESCRIPTION	MANUFACTURER	STYLE	MODEL #	COLOR	COMMENTS
F1	FLOOR FINISH	18" X 36"	CARPET TILE	SHAW CONTRACT GROUP	HAND DRAWN/ STIPPLE TILE	5T116	SLATE 13585	1
F2	FLOOR FINISH	24" X 24"	CARPET TILE	SHAW CONTRACT GROUP	NOBLE MATERIALS/ FORM TILE	5T136	CORNERSTONE COPPER 33555	1
F3	FLOOR FINISH		HOMOGENEOUS SHEET VINYL	MANNINGTON COMMERCIAL	BIOSPEC MD	-	FLAX 15361	-
F4	FLOOR FINISH		HOMOGENEOUS SHEET VINYL	MANNINGTON COMMERCIAL	BIOSPEC MD	-	SANDRIFT 15203	-
F5	FLOOR FINISH	12" X 24"	PORCELAIN TILE	CROSSVILLE	NOTORIOUS	NTR06	FILM NOIR	4
F6	FLOOR FINISH		ARMORSEAL TREAD-PLEX, WATER BASED ACRYLIC FLOOR COATING	SHERWIN WILLIAMS	6401-72656	B90A00101-20	HAZE GRAY	-
F7	FLOOR FINISH	12" X 12"	PORCELAIN TILE	CROSSVILLE	NOTORIOUS	NTR06.11212MOS	FILM NOIR	-
			O A DDET D A OF		OD A DUE VE	5.150	4 D DIET 0 4510	
1	WALL BASE	4" HIGH	CARPET BASE	SHAW CONTRACT GROUP	GRADIENT	5A153	ADRIFT 34512	2
2	WALL BASE	4" HIGH	CARPET BASE	SHAW CONTRACT GROUP	GRADIENT	5A153	ELEMENT 34583	2
3	WALL BASE	6" HIGH	COVED BASE	MANNINGTON COMMERCIAL	BIOSPEC MD	-	FLAX 15361	3
4	WALL BASE	4" HIGH	COVED BASE	MANNINGTON COMMERCIAL	BIOSPEC MD	-	SANDRIFT 15203	3
5	WALL BASE	6" X 12"	PORCELAIN TILE	CROSSVILLE	NOTORIOUS	NTR06.10612CBS	FILM NOIR	-
36	WALL BASE	4" HIGH	RUBBER BASE	ROPPE	STANDARD TOE	700 SERIES	CHARCOAL 123	-
<b>/</b> 1	WALL FINISH		PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW7005	PURE WHITE	9
2	WALL FINISH		PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW7043	WORLDLY GRAY	
/3	WALL FINISH		PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW0023	PEWTER TANKARD	_
	WALL FINISH		PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW6243	DISTANCE	_
/5	WALL FINISH		PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW6230	RAINSTORM	_
16	WALL FINISH	3" x 15"	PORCELAIN WALL TILE	CROSSVILLE	NOTORIOUS	NTR01	FEMME FATALE	5
<u> </u>	WALL FINISH		PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH	SW7132	WATER SQUIRT	-
	WALL FINISH		PAINT - MATCH EXISTING	SHERWIN WILLIAMS	-	-	-	8
.1	CEILING FINISH		PAINTED GYPSUM BOARD CEILING	SHERWIN WILLIAMS	FLAT FINISH	SW7005	PURE WHITE	9
<u>S</u> 1	MISC. SURFACE FINISH		DOOR FRAME PAINT	SHERWIN WILLIAMS	SEMI GLOSS	SW7047	PORPOISE	10
	PLASTIC LAMINATE FINISH		PLASTIC LAMINATE - CABINETS	LAMIN-ART	VELLUM FINISH	3056-VT	MYSTIC WOOD	
	SOLID SURFACE		SOLID SURFACE - COUNTERTOPS/SILLS	CORIAN SOLID SURFACE	-	-	WHITE JASMINE	11
	SOLID SURFACE		SOLID SURFACE INTEGRAL SINK	STARON SOLID SURFACE	-	A3181	BRIGHT WHITE BW010	-
G	CORNER GUARD	2" X 2" X 4' - 0"	CORNER GUARD	CONSTRUCTION SPECIALTIES	ACROVYN CORNER GUARDS	SSM-20AN	WHITE 949	6
P1	WALL PROTECTION		WAINSCOT PANEL 0.06" THICK RIGID VINYL	CONSTRUCTION SPECIALTIES	ACROVYN	-	WHITE 949	7
P2	WALL PROTECTION		WAINSCOT PANEL 0.06" THICK RIGID VINYL	CONSTRUCTION SPECIALTIES	ACROVYN	-	DRIFTWOOD 262	7
С	CUBICLE CURTAIN		SHOWER CURTAIN	INPRO ARCHITECTURAL PRODUCTS	CLICKEZE STYLE 2	SHEILD FABRIC BY PANAZ	ABLOOM: EUCALYPTUS	-

# **COMMENTS**

- 1. CARPET TILES SHALL BE INSTALLED IN AN ASHLAR PATTERN.
- 2. TOP EDGE OF CARPET BASE SHALL BE BOUND WITH A COORDINATING COLOR OF FABRIC BINDING STRIP. 3. TOP EDGE OF COVED BASE SHALL BE INSTALLED WITH A METAL CAP.
- FLOOR TILE SHALL BE INSTALLED IN A GRID PATTERN. GROUT COLOR TO BE CUSTOM BUILDING PRODUCTS #60 CHARCOAL. 5. WALL TILE SHALL BE INSTALLED IN A BRICK OR HALF BOND PATTERN. GROUT COLOR TO BE CUSTOM BUILDING PRODUCTS #545 BLEACHED WOOD.

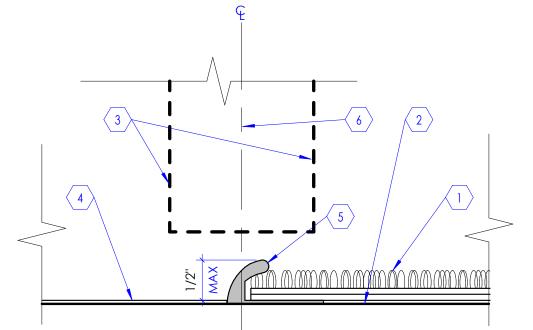
6. CORNER GUARDS TO SPAN FROM TOP OF BASE TO 4' - 0" ABOVE BASE. TOP OF CORNER GARDS TO ALIGN WITH TOP OF ADJACENT WALL PROTECTION.

- WALL PROTECTION WAINSCOT TO SPAN FROM TOP OF BASE TO 4' 0" ABOVE BASE. TOP OF WALL PROTECTION TO ALIGN WITH TOP OF ADJACENT CORNER GOARDS. . MATCH EXISTING FINISH STYLE AND COLOR.

CARPET FLOOR COVERING

(CARPET TILE, BROADLOOM, WALK OFF MAT)

. EPOXY PAINT SHALL BE USED FOR WALLS AND CEILINGS TYPICAL AT ALL PATIENT AND STAFF TOILET ROOMS AND AT HOUSKEEPING ROOM. 0. HOLLOW METAL DOOR AND FRAME COLOR FOR MED GAS STORAGE ROOM DOOR A119 TO MATCH ADJACENT EXISTING DOOR TO TELECOM CLOSET. 11. ALL COUNTERTOPS, TRANSACTION TOPS, SILLS, ETC TO BE SOLID SURFACE UNLESS OTHERWISE NOTED.



## KEYED NOTES 1. CARPET FLOOR COVERING AS OCCURS. SEE FINISH SCHEDULE.

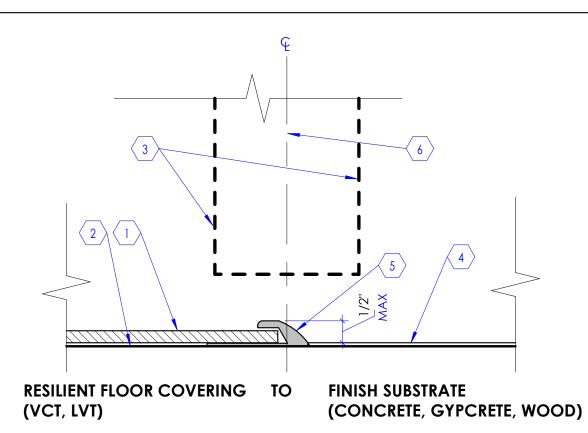
- 2. LINE OF FLOOR.
- 3. DOOR AS OCCURS. 4. LIQUID APPLIED FINISH (OPAQUE SEALER, CLEAR SEALER, ETC.). SEE
- FINISH SCHEDULE. 5. METAL TRANSITION STRIP. MODEL NUMBER LVT 160 IN ETCHED

ALUMINUM BY FUTURA OR EQUIVALENT. ATTACH TRANSITION STRIP

- TO SUBSTRATE PER MANUFACTURERS RECOMMENDATIONS.
- 6. CENTERLINE OF DOOR AND TRANSITION STRIP SHALL ALIGN.

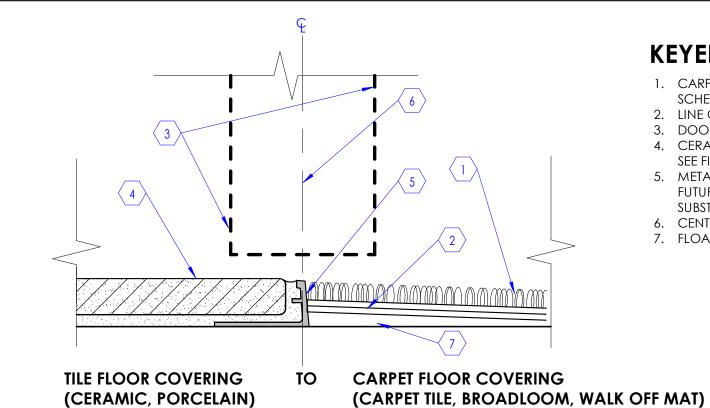
### FINISH SUBSTRATE TO CARPET FLOOR COVERING (CONCRETE, EPOXY PAINT, WOOD) (CARPET TILE, BROADLOOM, WALK OFF MAT)

Floor Covering Transition Detail SCALE: 12" = 1'-0"



# KEYED NOTES

- 1. FLOOR COVERING (VINYL COMPOSITION TILE, LUXURY VINYL TILE, ETC. AS OCCURS). SEE FINISH SCHEDULE.
- 2. LINE OF FLOOR.
- 3. DOOR AS OCCURS. 4. LIQUID APPLIED FINISH (OPAQUE SEALER, CLEAR SEALER, ETC.). SEE
- FINISH SCHEDULE. 5. METAL TRANSITION STRIP. MODEL NUMBER LVT 405 IN ETCHED ALUMINUM BY FUTURA OR EQUIVALENT. ATTACH TRANSITION STRIP
- TO SUBSTRATE PER MANUFACTURERS RECOMMENDATIONS. 6. CENTERLINE OF DOOR AND TRANSITION STRIP SHALL ALIGN.



Floor Covering Transition Detail

# KEYED NOTES

KEYED NOTES

2. LINE OF FLOOR.

3. DOOR AS OCCURS.

- 1. CARPET FLOOR COVERING AS OCCURS. SEE FINISH
- SCHEDULE. 2. LINE OF FLOOR.
- 3. DOOR AS OCCURS.
- 4. CERAMIC, PORCELAIN TILE, ETC. ON THINSET MORTAR BED. SEE FINISH SCHEDULE.

1. CARPET FLOOR COVERING AS OCCURS. SEE FINISH SCHEDULE.

4. FLOOR COVERING (VINYL COMPOSITION TILE, LUXURY VINYL TILE,

ALUMINUM BY FUTURA OR EQUIVALENT. ATTACH TRANSITION STRIP

5. METAL TRANSITION STRIP. MODEL NUMBER LVT 130 IN ETCHED

TO SUBSTRATE PER MANUFACTURERS RECOMMENDATIONS.

6. CENTERLINE OF DOOR AND TRANSITION STRIP SHALL ALIGN.

7. FLOAT FLOOR TO PROVIDE SMOOTH TRANSITION.

SHEET VINYL, ETC. AS OCCURS). SEE FINISH SCHEDULE.

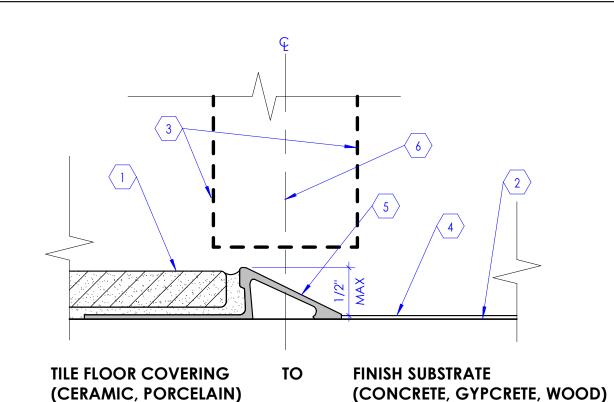
- 5. METAL TRANSITION STRIP. EDGETEK SERIES IN ALUMINUM BY FUTURA OR EQUIVALENT. ATTACH TRANSITION STRIP TO
- SUBSTRATE PER MANUFACTURERS RECOMMENDATIONS.
- 6. CENTER LINE OF DOOR AND TRANSITION STRIP SHALL ALIGN. 7. FLOAT FLOOR TO PROVIDE SMOOTH TRANSITION.

Floor Covering Transition Detail

RESILIENT FLOOR COVERING TO

(VCT, LVT, SHEET VINYL)

 $\frac{2}{\text{SCALE:}}$  12" = 1'-0"



Floor Covering Transition Detail

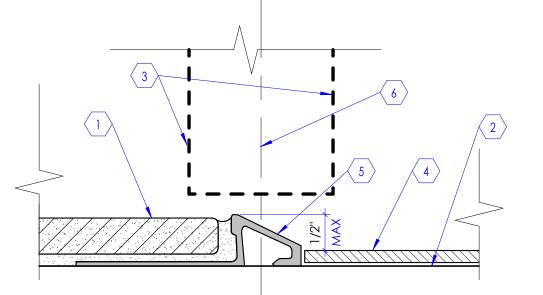
SCALE: 12" = 1'-0"

# KEYED NOTES

- 1. CERAMIC, PORCELAIN TILE, ETC. ON THINSET MORTAR BED. SEE FINISH SCHEDULE.
- 2. LINE OF FLOOR. 3. DOOR AS OCCURS.
- 4. LIQUID APPLIED FINISH (OPAQUE SEALER, CLEAR SEALER, ETC.). SEE FINISH SCHEDULE.
- 5. METAL TRANSITION STRIP. EDGETEK SERIES IN ALUMINUM BY FUTURA OR EQUIVALENT. ATTACH TRANSITION STRIP TO SUBSTRATE PER
- MANUFACTURERS RECOMMENDATIONS. 6. CENTERLINE OF DOOR AND TRANSITION STRIP SHALL ALIGN.

Floor Covering Transition Detail

SCALE: 12" = 1'-0"



**KEYED NOTES** 

- 1. CERAMIC, PORCELAIN TILE, ETC. ON THINSET MORTAR BED. SEE FINISH
- 2. LINE OF FLOOR.
- 3. DOOR AS OCCURS. 4. RESILIENT FLOORING (VINYL COMPOSITION TILE, LUXURY VINYL TILE,
- SHEET VINYL, ETC. AS OCCURS). SEE FINISH SCHEDULE. 5. METAL TRANSITION STRIP. EDGETEK SERIES IN ALUMINUM BY FUTURA
- OR EQUIVALENT, ATTACH TRANSITION STRIP TO SUBSTRATE PER MANUFACTURERS RECOMMENDATIONS. 6. CENTERLINE OF DOOR AND TRANSITION STRIP SHALL ALIGN.
- **RESILIENT FLOOR COVERING**

(VCT, LVT, SHEET VINYL)

Floor Covering Transition Detail

SCALE: 12" = 1'-0"

TILE FLOOR COVERING

(CERAMIC, PORCELAIN)



- A. BASIS-OF-DESIGN FOR FINISHES: FINISHES INDICATED ON THE FINISH SCHEDULE ARE BASED ON THE NAMED MANUFACTURER AND THEIR PRODUCTS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE NAMED PRODUCT OR A COMPARABLE PRODUCT BY ONE OF THE APPROVED MANUFACTURERS LISTED IN THE PROJECT MANUAL. SEE RELEVANT SPECIFICATION SECTION.
- SEE "SAMPLE LAYOUTS" INDICATED ON FINISH PLANS FOR CLARIFICATION ON HOW DIFFERENT TYPES OF REQUIRED FINISHES ARE INDICATED WITH FINISH TAGS FOR FLOORS, WALLS, MISCELLANEOUS SURFACE, ETC. SEE FINISH FLOOR PLANS FOR REQUIRED FINISHES (INDICATED WITH FINISH TAGS SUCH AS F1, B1, W1, ETC.).
- LINE OF TRANSITION BETWEEN DIFFERENT TYPES OF FLOOR COVERING IS INDICATED ON THE FINISH FLOOR PLANS. IN PLACES WHERE TWO DIFFERENT FLOOR COVERING ABUTS EACH OTHER, CONTRACTOR SHALL FOLLOW THE RELEVANT APPLICABLE "FLOOR COVERING TRANSITION DETAILS" INDICATED IN THIS CONSTRUCTION DOCUMENTS. WHERE TWO ROOMS ARE REQUIRED TO HAVE DIFFERENT FLOOR COVERINGS, LINE OF TRANSITION SHALL TYPICALLY OCCUR BELOW THE CENTER OF THE DOOR (LOCATED BETWEEN THE TWO ROOMS), AS THESE TRANSITION LINES ARE NOT INDICATED BELOW THE DOOR ON THE FINISH FLOOR PLANS, CONTRACTOR SHALL PROVIDE METAL TRANSITION STRIP (MANUFACTURED BY SCHLUTER OR EQUIVALENT) AS REQUIRED. AT EXTERIOR DOORS, PROVIDE ALUMINUM THRESHOLD MATCHING THE DOORWAY. FOR REMODEL PROJECTS, COORDINATE WITH DEMOLITION FLOOR PLAN AND NEW FLOOR PLAN TO DETERMINE WHERE NEW ABUTS EXISTING FLOOR COVERING THAT IS SCHEDULED TO REMAIN.
- LINE OF TRANSITION BETWEEN DIFFERENT TYPES OF WALL FINISH IS INDICATED ON THE INTERIOR ELEVATIONS AND FINISH FLOOR PLANS. FOR REQUIRED WALL PROTECTION TYPE (INDICATED WITH TAG WP1, WP2, ETC.), ON WALLS, COORDINATE WITH FINISH FLOOR PLANS AND INTERIOR ELEVATIONS.
- THERE ARE MISCELLANEOUS SURFACES THAT ARE EXPOSED AND WILL REQUIRE A FINISH. SUCH MISCELLANEOUS SURFACES ARE INDICATED IN THE DRAWINGS WITH FINISH TAGS SUCH AS MS1, MS2, ETC.
- PAINT ALL EXPOSED VISIBLE ITEMS SUCH AS METAL DECK, STEEL ANGLES, STEEL BEAMS, STEEL TRUSSES, MISC. STEEL ITEMS, PIPES, CONDUITS, ETC. UNLESS SPECIFICALLY NOTED AS A SURFACE NOT TO BE PAINTED, OR IF NATURAL FINISH IS REQUIRED. PAINT SURFACES USING FIELD COLORS AND ACCENT COLORS SPECIFIED BY THE ARCHITECT. DO NOT PAINT CONCEALED SURFACES, FINISHED METAL SURFACES, OPERATING PARTS, AND PRE-FINISHED ITEMS. VERIFY PAINTING SURFACE (SUCH AS STEEL, CONCRETE, MASONRY, GYPSUM BOARD, WOOD, ETC.) AND USE THE APPROPRIATE PAINT AND METHOD INDICATED IN THE PROJECT MANUAL UNDER RELEVANT SPECIFICATION SECTION. ALL HOLLOW METAL DOOR AND WINDOW
- FRAMES SHALL BE PAINTED. USE SEMI-GLOSS FINISH ON DOOR FRAMES. 6. IN ROOMS AND AREAS WHERE GYPSUM BOARD CEILING IS INDICATED, PAINT CEILING WITH THE SAME COLOR AND TYPE AS ADJACENT WALLS. IN WET ROOMS (LIKE RESTROOM, KITCHEN, ETC.) WHERE EPOXY PAINT IS INDICATED AS A REQUIREMENT ON WALLS, PAINT CEILINGS AND SOFFITS WITH EPOXY TYPE PAINT. ALL GYPSUM BOARD SOFFITS SHALL BE PAINTED. COORDINATE ACCENT COLOR LOCATIONS WITH ARCHITECT WHEREVER INDICATED.
- COUNTERTOPS, WALLS, ETC. PLASTIC LAMINATE FINISHES ARE INDICATED AS PL1, PL2, ETC. COUNTERTOPS THAT ARE MONOLITHIC MATERIAL (SUCH AS SOLID SURFACE, QUARTZ, ETC. AND NOT PLASTIC LAMINATE WRAPPED), ARE INDICATED AS MM1, MM2, ETC.

SEE INTERIOR ELEVATIONS FOR PLASTIC LAMINATE FINISHES OVER CABINETS,

- WHERE PORCELAIN AND/OR CERAMIC TILE FINISHES ARE INDICATED, PROVIDE METAL EDGE STRIPS (MANUFACTURED BY SCHLUTER OR EQUIVALENT) AT ALL OUTSIDE VERTICAL CORNERS AND TOP OF WAINSCOT.
- IN ROOMS AND AREAS (SUCH AS TOILET ROOMS, SHOWERS, ETC.) WHERE CERAMIC OR PORCELAIN TILES ARE INDICATED FOR WALL AND FLOOR FINISH, INSTALL BOTTOM ROW OF WALL TILE FIRST PER DETAIL 1/A603B. PROVIDE QUARTZ THRESHOLD AT DOORS TO TOILET ROOMS THAT ARE USED BY MULTIPLE USERS. SEE DETAILS 3 & 4 SHEET
- WHERE GYPSUM BOARD WALL ABUTS MASONRY WALL, PROVIDE REVEAL AS PER DETAIL 2/A603B.





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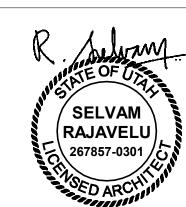
**GREAT BASIN Mechanical Engineer VAN BOERUM & FRANK** Electrical Engineer SPECTRUM Plumbing Engineer **VAN BOERUM & FRANK** Interior Designer RUBY THORP ROBERT GRIESCHE

**Equipment Planner** Wayfinding Sheet Reviewer Author

MARK DATE

DESCRIPTION

Project Number Original Issue



Finish Schedule & **Details** 

A603A

Sheet Number

### LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS **PIPING PLUMBING DUCTWORK/GRILLES** —>>->-OR—□□ POSITIVE PRESSURE DUCT - RISE SHUT OFF VALVE THERMOSTATIC MIXING VALVE **—**Ф**—** ОR **—** С HOSE BIBB POSITIVE PRESSURE DUCT - DROP BALL VALVE NEGATIVE PRESSURE DUCT - RISE **BUTTERFLY VALVE** FLOOR SINK FLOOR DRAIN NEGATIVE PRESSURE DUCT - DROP MOTOR OPERATED BUTTERFLY VALVE FLOOR CLEAN-OUT GATE VALVE ROUND DUCT - RISE OR CLEAN-OUT TO GRADE ROUND DUCT - DROP **ROOF DRAIN** GATE VALVE - NON RISING STEM UNDER FLOOR DUCT DOWNSPOUT NOZZLE ANGLE VALVE —▶</br> OR □□□ GLOBE VALVE O VTR VENT THRU ROOF TURNING VANES —|**Ŭ**|—OR**—Ü**— WATER HAMMER ARRESTOR PLUG VALVE FRESH AIR LOUVER SHUT OFF PLUG VALVE FOR **CLEAN-OUT** FOR USE WITH PRESSURE GAUGE —▽¬—OR—©— CHECK VALVE FILL PORT RELIEF AIR OR EXHAUST AIR LOUVER LATERAL STRAINER WITH BLOW-OFF VALVE. DRAIN PAN AND P-TRAP PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN (NAME) FIXTURE FROM LEVEL ABOVE CEILING SUPPLY DIFFUSER F&T=FLOAT & THERMOSTATIC REDUCED PRESSURE BACKFLOW RPBP CEILING RETURN REGISTER $\overline{\times}$ **DEMOLITION** PREVENTOR W/ DRAIN PAN CEILING EXHAUST REGISTER, OR I (BALANCE TO MATCH SUPPLY IF PRESSURE REDUCING VALVE EXTERNAL PRESSURE RETURN CFM IS NOT SHOWN) TOP FIGURES INDICATE SIDEWALL SUPPLY NECK SIZE. BOTTOM PRESSURE REDUCING VALVE SELF CONTAINED REGISTER FIGURE INDICATES CFM SIDEWALL EXHAUST OR ATC - 2 WAY VALVE RETURN REGISTER CEILING SUPPLY DIFFUSER **EQUIPMENT** ATC - 3 WAY VALVE WITH FLEXIBLE DUCT CEILING AIR GRILLE WITH SOLENOID VALVE FLEXIBLE DUCT **─ INLINE PUMP** CEILING RETURN AIR GRILE 0.0 GPM CALIBRATED BALANCING W/ SOUND BOOT VALVE WITH GPM INDICATED **INLINE PUMP** LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT VENTURI FLOW METER 旧广@ 48" 400 CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, $\longrightarrow$ ACTIVE LENGTH AND CFM ON BOTTOM GPM, LB/HR. FLEXIBLE DUCT CONNECTION FLOW METER ORIFICE OR—A RELIEF VALVE FLEXIBLE DUCT FLAT OVAL DUCT WITH FREE AREA 12/8 FO AIR VENT-MANUAL DIMENSIONS SHOWN IN INCHES. RECTANGULAR DUCT WITH FREE AREA 12/8 AIR VENT-AUTO DIMENSIONS SHOWN IN INCHES. ROUND DUCT WITH FREE AREA DIMENSIONS FLOW SWITCH 12ø SHOWN IN INCHES. PRESSURE SWITCH INCLINED RISE <u>FIRE</u> WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT. TEMPERATURE AND PRESSURE \_DN INCLINED DROP **TEST PORT** VALVE R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR THERMOMETER WELL NRS GATE VALVE WITH RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND SUPERVISION 12/12 8/8 DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE THERMOMETER - TEMP RANGE AS INDICATED EXCEPT WHERE SHOWN OTHERWISE. FLOW SWITCH PRESSURE GAUGE WITH † 12/12 | 12ø RECTANGULAR TO ROUND DUCT TRANSFORMATION SHUT OFF PLUG VALVE FIRE RISER BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. PRESSURE GAUGE WITH PIGTAIL ELBOW TURNING VANE OPTIONAL. SPRINKLER HEAD 45° D D TAP ENTRY AREA EQUALS 150% OF BRANCH AREA UNION FIRE SPRINKLER WATER \_\_\_\_\_F\_\_\_ HIGH EFFICIENCY FITTING —|---OR------FLANGE —∞—OR—[⊠]— MANUAL VOLUME DAMPER FLEXIBLE EXPANSION JOINT FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD. REDUCER COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL ECCENTRIC REDUCER **BRANCH - BOTTOM CONNECTION** SMOKE DAMPER W/ ACCESS PANEL **ANNOTATIONS BRANCH - TOP CONNECTION** BACK DRAFT DAMPER ATCD OR } ATC DAMPER **BRANCH - SIDE CONNECTION PLUMBING FIXTURES** RISE OR DROP POINT OF CONNECTION ACCESS PANEL IN DUCT OR PLENUM RISER - DOWN (ELBOW) HEATING OR COOLING COIL IN DUCT SECTION TAG - TOP FIGURE IS SECTION NO. ( M-101 BOTTOM FIGURE IS SHEET NO. RISER - UP (ELBOW) SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET. <del>----</del> PIPE CAP Α DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO. M101

ARROW INDICATES DIRECTION OF FLOW IN

LEADER INDICATES DOWNWORD SLOPE

VALVE IN RISE

90° ELBOW

45° ELBOW

**ANCHOR** 

ALIGNMENT GUIDE

**EQUIPMENT IDENTIFICATION** 

KEYED NOTE IDENTIFICATION

**SWITCH** 

SENSOR

**THERMOSTAT** 

NIGHT THERMOSTAT

<del>----</del>>--

OR

4-WAY BLOW PATTERN

3-WAY BLOW

2-WAY BLOW

2-WAY BLOW

1-WAY BLOW PATTERN

DUCT SMOKE DETECTOR

PATTERN

# **LINETYPES**

	<u>2</u>
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHWR)
——E(NAME)——	EXISTING PIPING
<del>-</del> X−(NAME) <del>-X</del>	EXISTING PIPING TO BE REMOVED
———G——	NATURAL GAS
ox	MEDICAL OXYGEN
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
———RL———	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
	VENT (SEWER)

## MECHANICAL GENERAL NOTES

- PROVIDE CD-1 TYPE DIFFUSER, AS SCHEDULED, FOR ALL CEILING SUPPLY DIFFUSERS UNLESS NOTED OTHERWISE. SEE DETAIL 2/M501.
- PROVIDE RG-1 TYPE GRILLE, AS SCHEDULED, FOR ALL CEILING RETURN GRILLES SHOWN AS SUCH. PROVIDE SIZE 22x22, OR 22x10 WITH SOUND BOOT FOR UNDUCTED GRILLES. SEE DETAIL 3/M501.
  - PROVIDE EG-1 TYPE GRILLE, AS SCHEDULED, FOR ALL CEILING EXHAUST GRILLES, SHOWN AS SUCH.
  - PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
  - COORDINATE EXACT LOCATION OF DUCTS WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, PLUMBING, MECHANICAL PIPING, ETC.
  - BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK SIZE OF THE DIFFUSER, REGISTER OR GRILLE IT SERVES UNLESS NOTED
  - INSTALL HARD ELBOWS AS SHOWN. HARD ELBOWS ARE REQUIRED FOR SOUND ATTENUATION.
  - INSTALL EQUIPMENT WITH CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN PROPER SPACE FOR COIL PULL,
  - INSTALL TURNING VANES IN ALL SQUARE AND RECTANGULAR LOW PRESSURE DUCTWORK.
  - 10. DETAILS REFERENCE ALL SHEETS.
  - 11. ALL FIRE DAMPERS ARE 1-1/2 HR RATED, UNLESS NOTED

CONTROLS, AND MAINTENANCE ACCESS.

- 12. DO NOT ROUTE DUCTS OR PIPES ABOVE ELECTRICAL PANELS. DO NOT ROUTE DUCTS OR PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
- 13. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE
- 14. PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC, ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
- 15. ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.

# MECHANICAL PIPING GENERAL NOTES

- PIPING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- 2. NO PIPING TO RUN DIRECTLY OVER ELECTRICAL PANELS. MCC'S. VFD'S. ROUTE AROUND AS REQUIRED.
- 3. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURER'S RECOMMENDATION. PROVIDE A 24"X24" ACCESS DOOR BELOW EQUIPMENT BOX AND CONTROL VALVES WHERE INSTALL OVER HARD CEILING AREAS.
- 4. COORDINATE EXACT LOCATION OF T-STATS WITH ARCHITECTURAL FURNISHINGS.
- INSTALL A 24"x24" ACCESS PANEL BELOW ALL VALVES, CIRCUIT SETTERS, AND CONTROL VALVES OVER HARD CEILINGS.
- 6. FIELD VERIFY ALL EQUIPMENT LOCATIONS.
- 7. DETAILS REFERENCE ALL SHEETS.

# PLUMBING GENERAL NOTES

- SLOPE PIPING AS FOLLOWS, UNLESS OTHERWISE NOTED. WASTE: BRANCHES 1/4" PER FOOT. WASTE MAINS: 1/8" PER FOOT.
- SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
- PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY

EXACT ROUTING AND COORDINATE WITH ALL OTHER TRADES.

- ALL PIPING IN PLUMBING CHASES TO BE ARRANGED TO ALLOW
- MAINTENANCE ACCESS.
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S, OR MCC'S. NO FIRE PROTECTION LINE IS TO BE DESIGNED OR INSTALLED PRIOR
- TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING, AND PLUMBING TAKE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S EXPENSE.
- 7. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
- CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY.
- LOCATE ALL VENTS MINIMUM 25 FT AWAY FROM AIR INTAKES.
- 10. INSTALL DOMESTIC WATER LINES BELOW DUCTWORK.
- 11. INSTALL A 24"x24" ACCESS DOOR BELOW ALL ISOLATION VALVES AND CIRCUIT SETTERS WHERE MOUNTED ABOVE HARD CEILINGS.
- 12. MOUNT ALL CEILING TYPE ISOLATION VALVES, CONTROL VALVES, CIRCUIT SETTERS, ETC. NEAR CEILING FOR ACCESSIBILITY.
- 13. DETAILS REFERENCE ALL SHEETS.
- 14. EXISTING PIPING SHOWN HAS BEEN TAKEN FROM INFORMATION PROVIDED BY OTHERS. FIELD VERIFY ALL SYSTEMS, SIZES, LOCATIONS, AND ELEVATIONS PRIOR TO STARTING ANY NEW WORK.





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Author

**Project Number** Original Issue



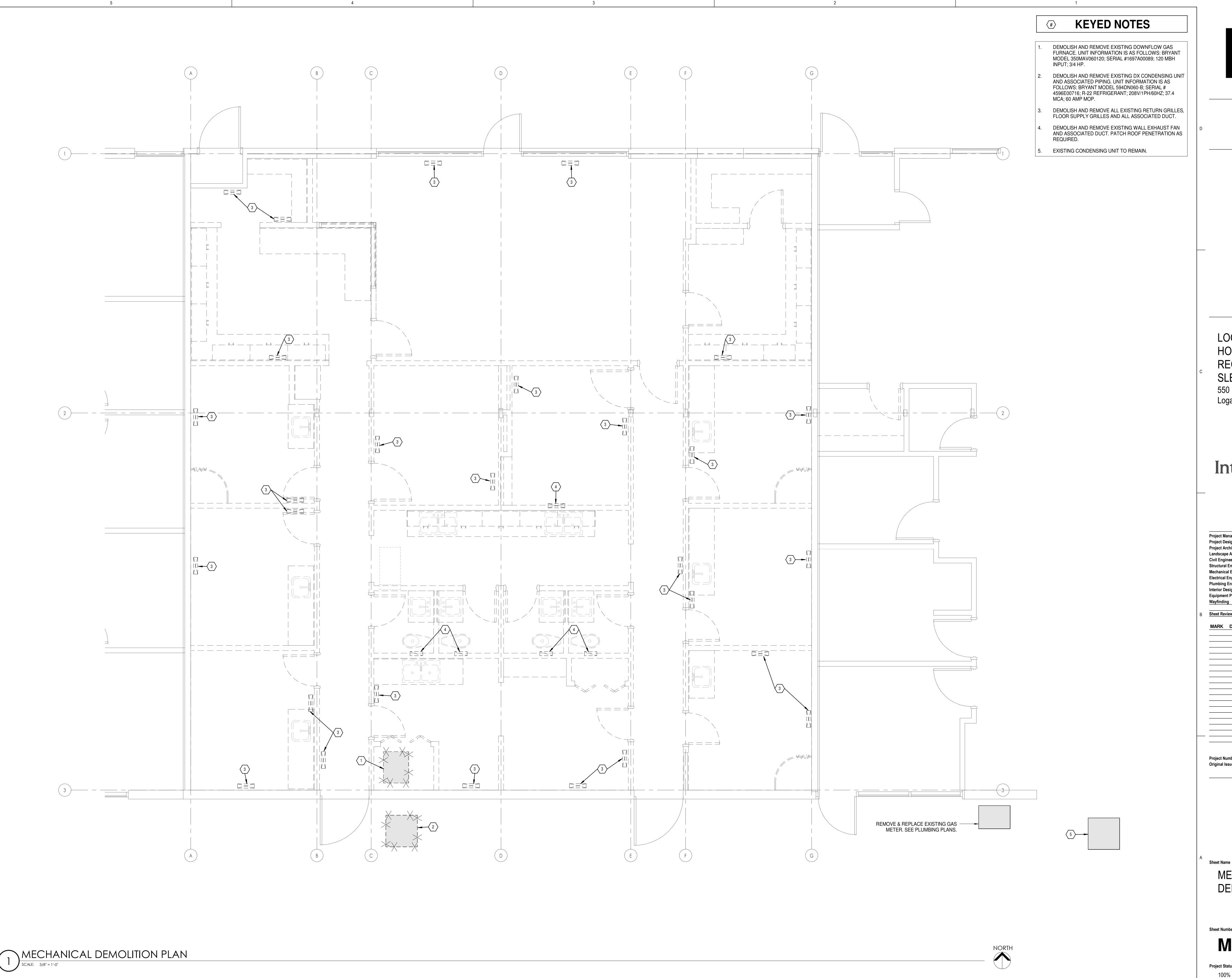
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11/6/20

MECHANICAL SYMBOL LEGEND AND GENERAL NOTES

Sheet Number

**M001** 





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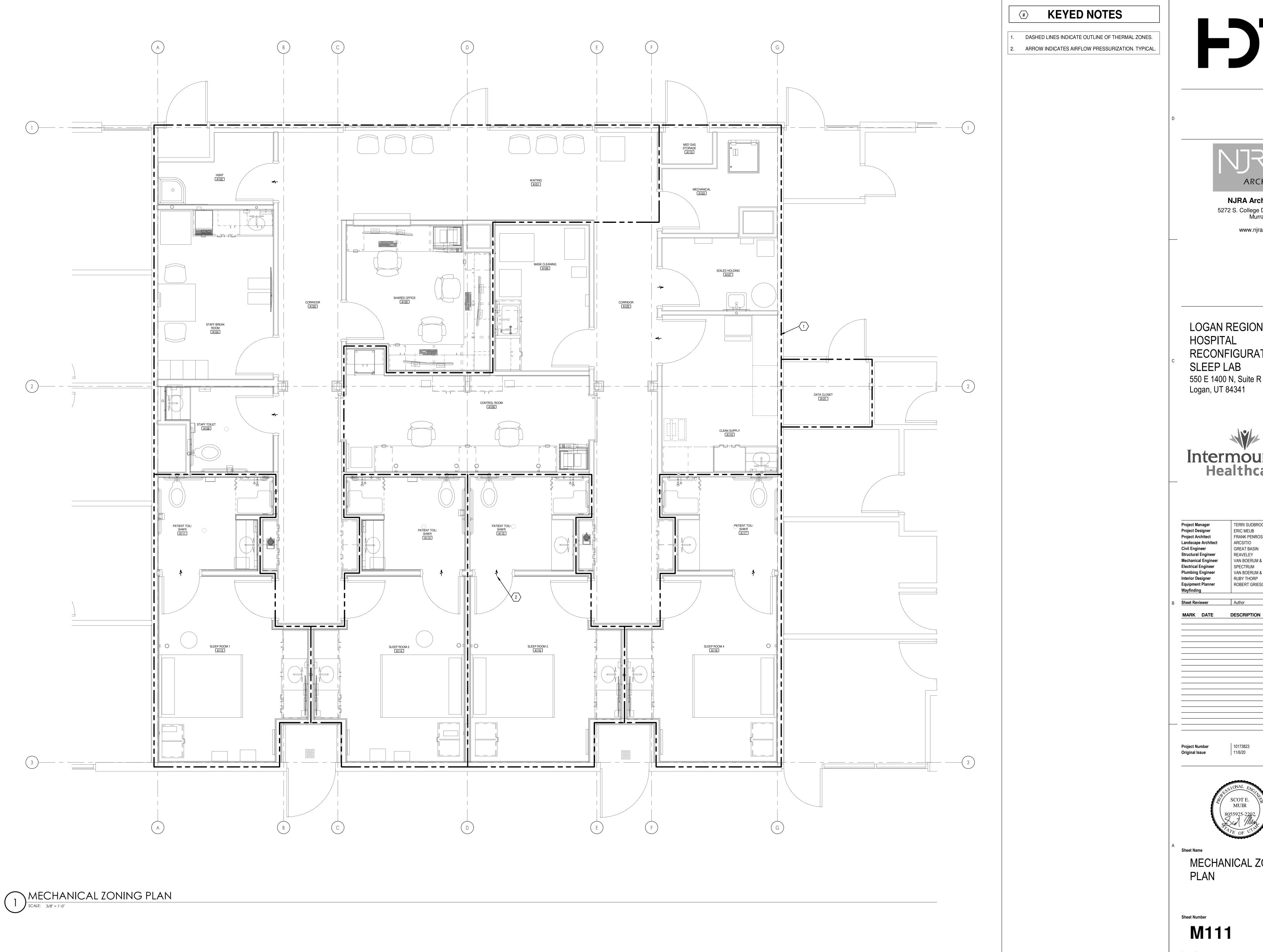


Manager	TERRI SUDBROOK
Designer	ERIC MEUB
Architect	FRANK PENROSE
ape Architect	ARCSITIO
ngineer	GREAT BASIN
ral Engineer	REAVELEY
nical Engineer	VAN BOERUM & FRANK
al Engineer	SPECTRUM
ng Engineer	VAN BOERUM & FRANK
Designer	DUBY THORD



MECHANICAL **DEMOLITION PLAN** 

M110



ARCHITECTS

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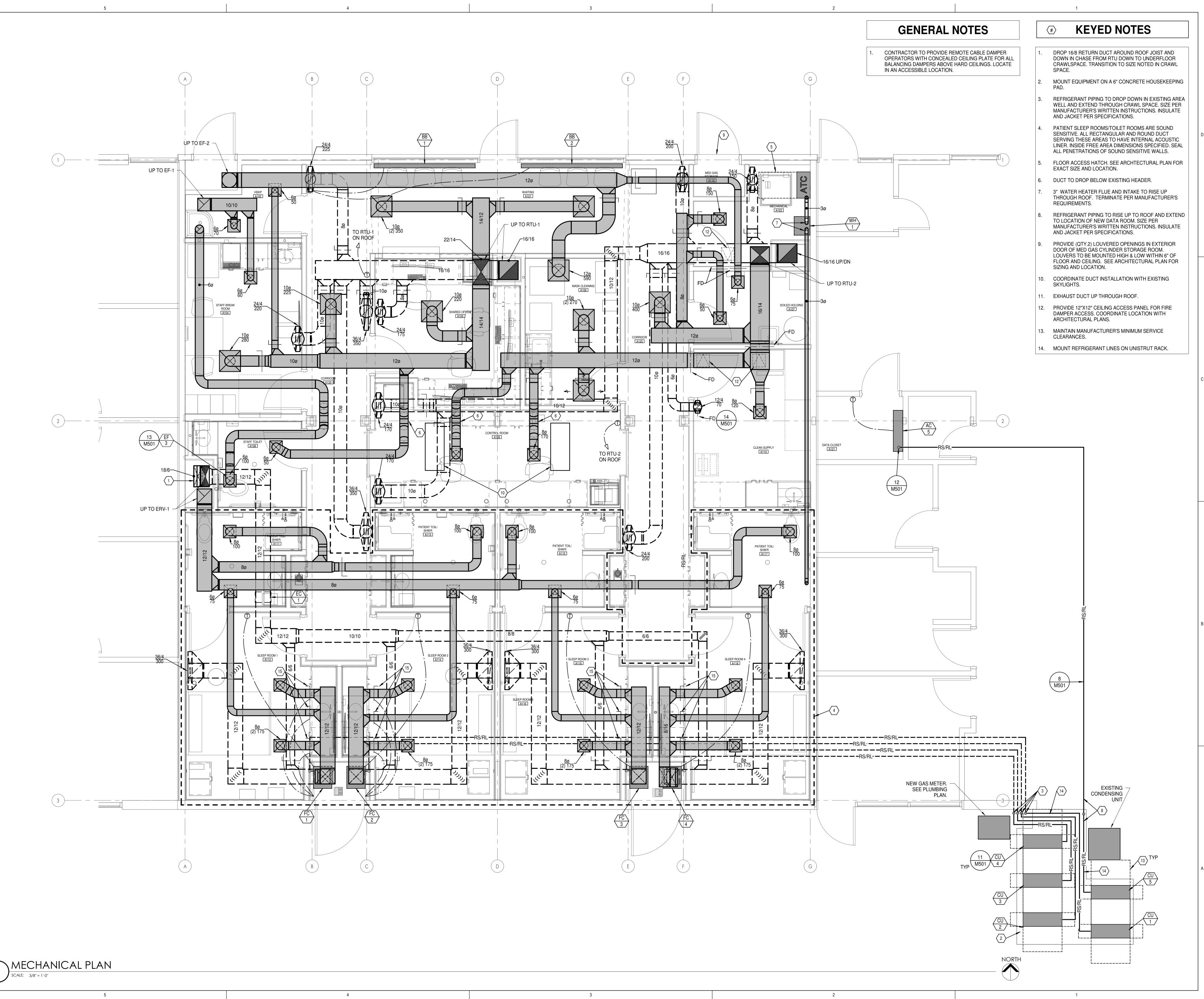


Structural Engineer **Mechanical Engineer** Electrical Engineer Plumbing Engineer Interior Designer ROBERT GRIESCHE



MECHANICAL ZONING PLAN

M111







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Project Manager	TERRI SUDBROOK
Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRAN
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRAN
Interior Designer	RUBY THORP

Sheet Reviewer Au

**Equipment Planner** 

ARK DATE DESCRIPTION

ROBERT GRIESCHE

Original Issue



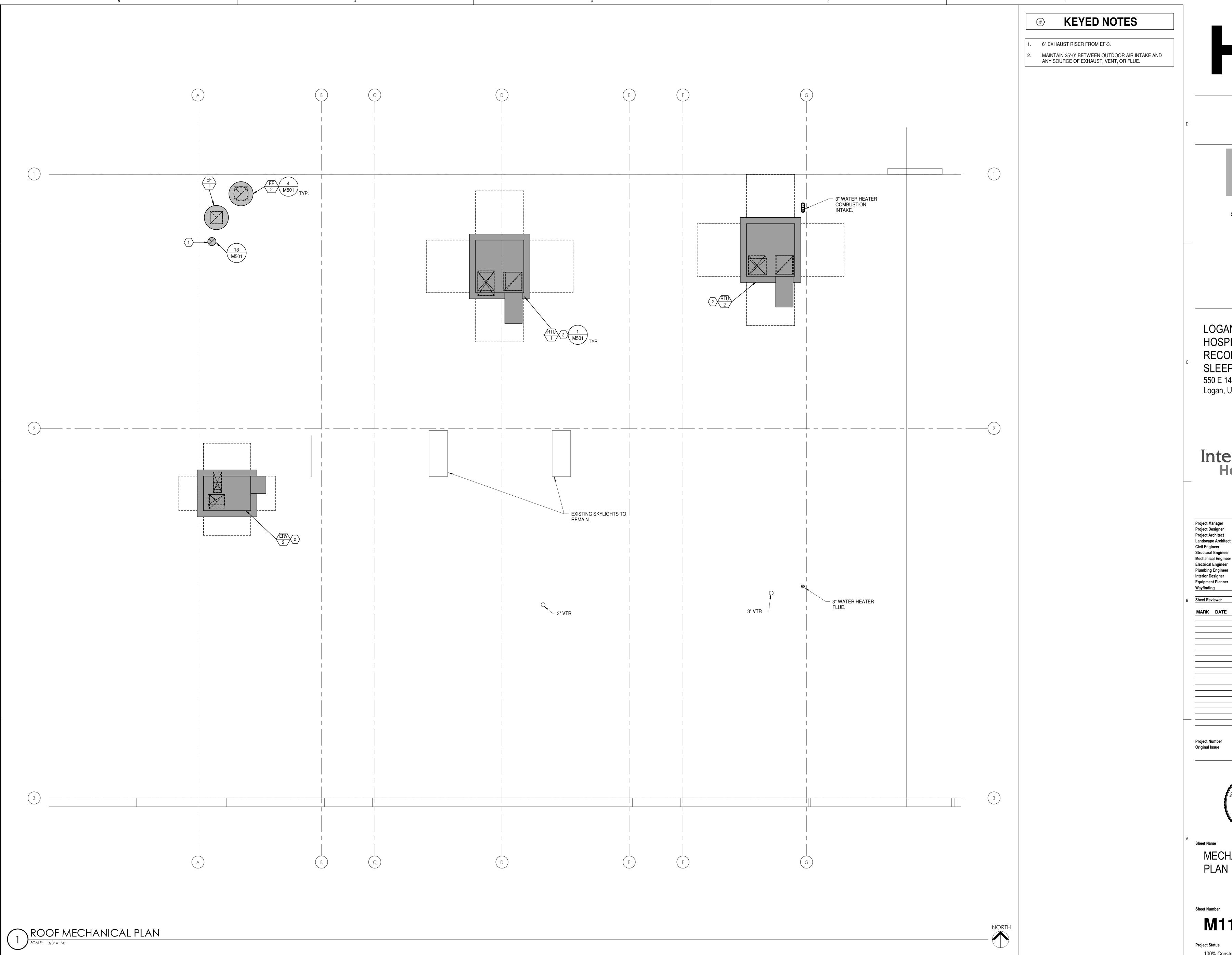
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MECHANICAL PLAN

Sheet Number

M112

oject Status
100% Construction Documents



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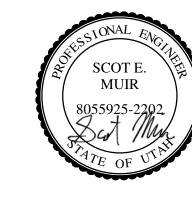


ROBERT GRIESCHE

Project Manager TERRI SUDBROOK Project Designer **Project Architect** Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer Electrical Engineer Plumbing Engineer Interior Designer VAN BOERUM & FRANK RUBY THORP

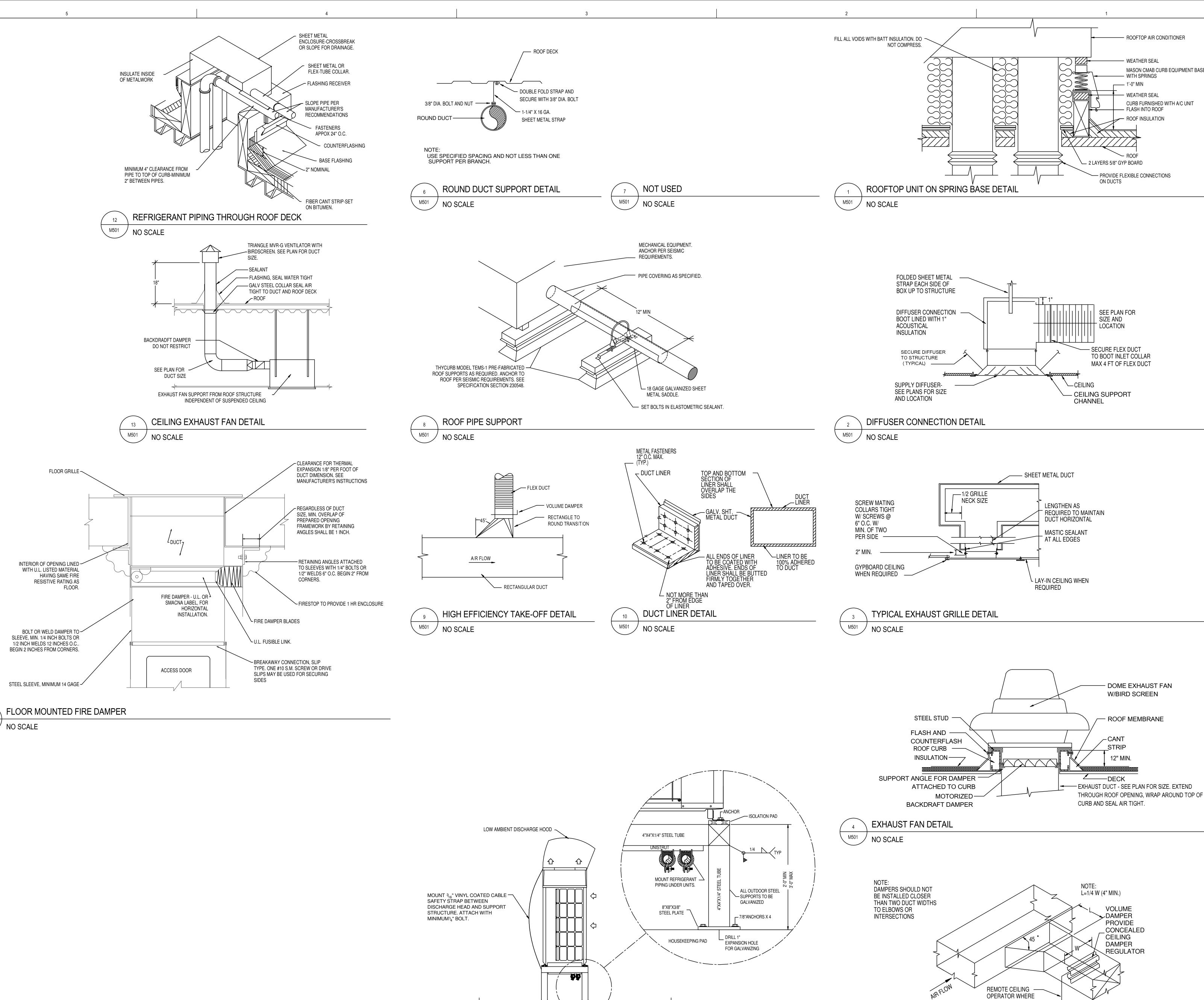
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MECHANICAL ROOF PLAN

M113

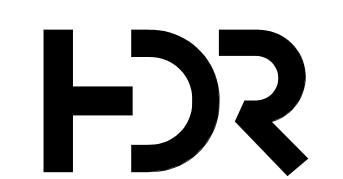


VRF - OUTDOOR UNIT MOUNTIN DETAIL

M501

NO SCALE

M501



ROOFTOP AIR CONDITIONER

MASON CMAB CURB EQUIPMENT BASE

CURB FURNISHED WITH A/C UNIT

WEATHER SEAL

— WITH SPRINGS

WEATHER SEAL

— PROVIDE FLEXIBLE CONNECTIONS

ON DUCTS

SEE PLAN FOR

SIZE AND

LOCATION

- SECURE FLEX DUCT

TO BOOT INLET COLLAR

MAX 4 FT OF FLEX DUCT

- DOME EXHAUST FAN

W/BIRD SCREEN

— ROOF MEMBRANE

VOLUME DAMPER

PROVIDE \_CONCEALED CEILING

DAMPER

DAMPER IS INACCESSIBLE

BRANCH DUCT TAKE-OFF & DAMPER

M501

NO SCALE

REGULATOR

ROOF INSULATION



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Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	DUBY THODD

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**Equipment Planner** 

ROBERT GRIESCHE

**Project Number** Original Issue



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MECHANICAL DETAILS

Sheet Number

M501

Project Status 100% Construction Documents (1) CAPACITY BASED ON 4,500 FEET ELEVATION, 95 DB / 62 WB (SUMMER AMBIENT); -20 DEG F (WINTER AMBIENT).

(2) COMPLETE WITH LOW LEAKAGE OUTDOOR & EXHAUST DAMPERS, ELECTRICAL DISCONNECT, AND SPRING ISOLATED SEISMIC ROOF CURB SIZED TO LOCATE OA INTAKE 36" ABOVE THE ROOF.

(3) ENERGY RECOVERY WHEEL COMPLETE WITH TIMED EXHAUST FROST CONTROL.

(4) COMPLETE WITH MICROPROCESSOR BASED CONTROL, BACNET MSTP INTERFACE TO CAMPUS BAS WITH REMOTE ENABLE/DISABLE, DIRTY FILTER SENSORS ON OUTDOOR & EXHAUST, ROTATION SENSOR, FROST CONTROL, AND OA INTAKE AND DISCHARGE TEMPERATURE MONITORING.

		ELECTRIC	C BASE	BOARE	HEATI	ER SCH	EDULE		
					ELECTRICAL			PHYSICAL	
	MANUFACTURER		EFFECTIVE	HEAT				WIDTH/	
	AND		LENGTH	CAPACITY				DEPTH/HEIGHT	
ID	MODEL NUMBER	LOCATION	(FT)	(BTU/H)	WATTS	AMPS	VOLT/PH/HZ	(IN)	NOTES
BB-1	MARLEY 25408NW	WAITING A101	8	6416	1880	9.1	208/1/60	96/3/7	(1)(2)
BB-2	MARLEY 25408NW	WAITING A101	8	6416	1880	9.1	208/1/60	96/3/7	(1)(2)

(1) EQUIPPED WITH HIGH TEMPERATURE CUTOUT AND ELECTRICAL DISCONNECT. ALL ACCESSORIES REQUIRED FOR FLOOR MOUNTING.

(2) REMOTE MOUNTED LINE VOLTAGE THERMOSTAT TO CONTROL BOTH BB-1&2. SEE PLANS FOR LOCATION.

	ELECTRIC COIL SCHEDULE											
				AIR	T		T	ELECTRICAL		PHYSICAL	_	
	MANUFACTURER			AIRFLOW		ENTERING	LEAVING			DUCT WIDTH/		
	AND		EQUIPMENT	RATE	CAPACITY	TEMP.	TEMP.	MINIMUM		HEIGHT		
ID	MODEL NUMBER	LOCATION	SERVED	(CFM)	(MBH)	(°F)	(°F)	KW	VOLT/PH/HZ	(IN)	NOTES	
EC-1	GREENHECK IDHC	CRAWLSPACE	ERV-1	400	25.76	-20	50	7.5	208/1/60	10/10	(1)(2)(3)	

(1) CAPACITY BASED ON 4,500 FEET ELEVATION.

(2) UNIT COMPLETE WITH FAN INTERLOCK, FLANGED CONNECTION, ELECTRICAL DISCONNECTING CONTACTOR, TERMINAL BLOCKS FOR CONTROL

INTEGRATION, MERCURY SWITCH CONTACTORS FOR SILENT OPERATION, AND CONTROL TRANSFORMER.

(3) TWO-STAGE HEATING CONTROL (INTEGRATED WITH ERV CONTROLS).

				FA	N SCH	<b>EDULI</b>								
				AIR		FAN			ELECTRIC	AL		PHYSICAL		
				MAXIMUM				MAX						
	MANUFACTURER			AIRFLOW	STATIC	OUTLET	FAN	FAN	MOTOR			DIAMETER/		
	AND	AREA		RATE	PRESSURE	VELOCITY	SPEED	SPEED	SIZE			HEIGHT	WEIGHT	
ID	MODEL NUMBER	SERVED	TYPE	(CFM)	(IN. WATER)	(FPM)	(RPM)	(RPM)	(HP)	ВНР	VOLT/PH/HZ	(IN)	(LBS)	NOTES
EF-1	GREENHECK G-095-VG	GEN EXHAUST - WEST	DOME	260	0.45	224	1356	1725	1/6	0.05	115/1/60	22/16	75	(1)(2)
EF-2	GREENHECK G-099-VG	GEN EXHAUST - EAST	DOME	800	0.5	833	1488	1725	1/4	0.14	115/1/60	24/25	75	(1)(2)
EF-3	GREENHECK SP-A90-130-VG	STAFF TOILET	CEILING	120	0.44	624	1041	1041	12 W	12 W	115/1/60	14/13/9	15	(1)(3)(4)

(1) ALL CAPACITIES AT 4,500 FEET ELEVATION.

(2) ROOF MOUNTED DIRECT DRIVEN EXHAUST FAN. COMPLETE WITH DC BRUSHLESS MOTOR (MINIMUM 85% EFFICIENT), INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISCONNECT,

SPEED DIAL, MOTORIZED BACKDRAFT DAMPER, AND PREFABRICATED 14" ROOF CURB.

(3) COMPLETE WITH VIBRATION ISOLATORS, BACKDRAFT DAMPER, AND ARCHITECTURAL CEILING GRILL WITH WHITE FINISH.

(4) CONTROL: INTERLOCK WITH LIGHT SWITCH BY DIVISION 26.

				MAX	MAX	
ID	MANUFACTURER	MODEL	SIZE	CFM	NC	DESCRIPTION
			6" DIA	90		SQUARE PLAQUE CEILING DIFFUSERS. REMOVABLE FACE & CORE
			8" DIA	180		PROVIDE PLASTER LAY-IN FRAME FOR SURFACE MOUNTING IN GYPSUM
CD-1	EH PRICE	SPD	10" DIA	300	30	BOARD CEILING. DIFFUSER & FRAMES SHALL BE 20" x 20" OR 12" x 12"
			12" DIA	450		AS REQUIRED TO FIT CEILING SPACE. SEE PLANS FOR FACE AND NECK SIZE.
			14" DIA	600		
						ALUMINUM FLOOR MOUNTED LINEAR BAR SUPPLY GRILLE. GRILLE SHALL
						HAVE 3/16" FIXED 0° DEFLECTION BLADES SPACED AT 1/2" ON CENTER
			4" WIDE			RATED FOR FOOT TRAFFIC. BLADES SHALL RUN PARALLEL TO THE LONG
RG-1	EH PRICE	LBMH 25B	SEE PLANS	135 CFM/FT	30	DIMENSION OF THE GRILLE. PROVIDE HEAVY DUTY NARROW FACE BORDER
			FOR LENGTH			DESIGNED FOR FLUSH AND RECESSED MOUNTING IN FLOORS. PROVIDE FIELD
						FABRICATED INSULATED PLENUM SIZED TO MATCH SIZE OF FLOOR GRILL.
			6" DIA	100		CRATE TYPE CEILING EXHAUST AIR UNIT, REMOVABLE FACE & CORE.
			8" DIA	210		FRAME SHALL BE FOR SURFACE MOUNTING IN GYPSUM BOARD CEILING.
EG-1	EH PRICE	80FF	10" DIA	380	30	UNIT & FRAMES SHALL BE 20"x20" OR 12" x 12" AS REQUIRED TO
			12" DIA	600		TO FIT CEILING SPACE AVAILABLE. SEE PLANS FOR FACE AND NECK SIZE.
			14" DIA	750		PROVIDE ROUND NECK ADAPTER.
			15" DIA	1000		

	PACKAGED ROOFTOP UNIT SCHEDULE																						
				SUPPLY FA	PPLY FAN HEATING SECTION				COOLING SECTION					FILTER ELECTRICAL			PHYSICAL						
					EXTERNAL	MINIMUM			ENTERING/				ENTERING	LEAVING					SUPPLY		CABINET		
	MANUFACTURER		NOMINAL	SUPPLY	STATIC	VENTILATION	HEATING	HEATING	LEAVING		CAPAC	CITY	AIR TEMP	AIR TEMP			MINIMUM		FAN	SINGLE	LENGTH/		
	AND		CAPACITY	AIRFLOW	PRESSURE	RATE	INPUT (1)	OUTPUT (1)	AIR TEMP		SENSIBLE	TOTAL	DB/WB	DB/WB			EFFICIENCY		MOTOR	POINT	WIDTH/HEIGHT	WEIGHT	
ID	MODEL NUMBER	AREA SERVED	(TONS)	(CFM)	(IN. WATER)	(CFM)	(MBH)	(MBH)	(°F)	MEDIUM	(MBH)	(MBH)	(°F)	(°F)	MEDIUM	EER	(MERV)	MCA/MOCP	(HP)	VOLT/PH/HZ	(IN)	(LB)	NOTES
RTU-1	YORK PCG6B481002X4	STAFF AREA	4	1,525	1.0	310	82	65.6	50.4/97.4	NAT. GAS	32.1	40.4	76.5/59.9	53.5/49.6	R-410A	12.5	14	30.9/45	0.75	230/1/60	51/46/47	766	(1)(2)(3)(4)(5)(6)(7)
RTU-2	YORK PCG6B481252X4	STAFF AREA	4	1,600	1.0	640	102.5	82.8	31/87.5	NAT. GAS	40.5	40.5	81/60.4	53.4/50.7	R-410A	12.5	14	30.9/45	0.75	230/1/60	51/46/47	766	(1)(2)(3)(4)(5)(6)(7)

(1) ALL CAPACITIES AT 4,500 FEET ELEVATION.

(2) COOLING BASED ON 95DB/62WB DEG F AMBIENT. HEATING BASED ON -20 DEG F AMBIENT.

(3) PROVIDE AND INSTALL DES CHAMPS RLC-SERIES WATERLESS CONDENSATE TRAP.

(4) UNIT COMPLETE WITH AND SPRING ISOLATED SEISMIC RATED ROOF CURB SIZED TO LOCATE OUTDOOR INTAKE A MINIMUM OF 36" ABOVE THE ROOF.

(5) COMPLETE WITH 100% ECONOMIZER & MODULATING POWER EXHAUST. SINGLE POINT POWER CONNECTION TO RTU, ECONOMIZER, & POWERED EXHAUST.

(6) UNIT COMPLETE WITH STAINLESS STEEL HEAT EXCHANGER, 2 STAGE HEATING, 2-STAGE COOLING.

(7) PROVIDE BACNET CONTROLLER TO ALLOW REMOTE MONITORING AND CONTROL WITH JCI BUILDING AUTOMATION SYSTEM.

	SPLIT AIR CONDITIONING UNIT SCHEDULE																	
				COOLING	INDOOR UNIT					OUTDOOR UNIT								
				CAPACITY			DIMENSIONS				DIMENSIONS							
				RANGE		AIRFLOW	WxDxH	WEIGHT			WxDxH	WEIGHT		MFA		EFFICIENCY		
ID	MANUFACTURER	LOCATION	TYPE	(MBH)	MODEL	(CFM)	(IN)	(LBS)	VOLT/PH/HZ	MODEL	(IN)	(LBS)	MCA	(AMPS)	VOLT/PH/HZ	SEER	REFRIGERANT	NOTES
AC-5/CU-5	DAIKIN	DATA CLOSET A132	WALL MOUNTED	22.2-6.0	FTKB24AXVJU	405-555	46x9x13	31	208/1/60	RKB24AXVJU	34x13x26	97	13.2	20	208/1/60	17.0	R-410A	(1)(2)(3)(4)(5)(6)

(1) SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS. DISCONNECT BY DIVISION 26 (QTY. 2; 1 EACH FOR INDOOR AND OUTDOOR UNIT).

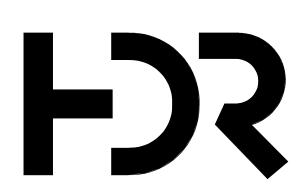
(2) SYSTEM COMPLETE WITH FACTORY SUPPLIED FIELD INSTALLED WALL MOUNTED (WIRED) CONTROLLER AND LOW AMBIENT KIT TO 0 DEG F.

(3) REFRIGERANT LINES SIZED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED LINE SIZE.

(4) EQUIPPED WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR PROVIDING THE RANGE OF CAPACITIES NOTED. MODULATING COMPRESSOR SPEED TO REDUCE CYCLING.

(5) PROVIDE AND INSTALL INLINE CONDENSATE PUMP. PUMP SHALL BE CAPABLE OF 5.8 GAL/H @ 10 FT HD, 120V/1PH/60HZ, 1/10 HP. BASIS OF DESIGN SHALL BE ASPEN PUMPS MAXI ORANGE (OR EQUAL). PROVIDE CHECK VALVE AT DISCHARGE OF PUMP.

(6) UNIT MANUFACTURER SHALL MATCH THAT PROVIDED FOR THE VRF EQUIPMENT. SEE SPECIFICATIONS...





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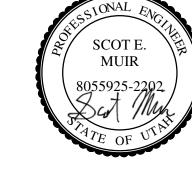
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**Equipment Planner** 

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ROBERT GRIESCHE





MECHANICAL

	•	VARIABLE	REFF	RIGERA	NT FLOW (	VRF) CON	IDENSIN	IG UN	IT SCHE	DULE				
									ELECTRICAL			PHYSICAL		
					RATED	RATED			MINIMUM	MAXIMUM		WIDTH/		
	MANUFACTURER			NOMINAL	COOLING	HEATING			CIRCUIT	OVERCURRENT		HEIGHT/		
	AND	AREA	UNITS	CAPACITY	CAPACITY	CAPACITY	COOLING		AMPACITY	PROTECTION		DEPTH	WEIGHT	
ID	MODEL NUMBER	SERVED	SERVED	(TONS)	(MBH)	(MBH)	SEER/EER	REFRIG.	(MCA)	(MOP)	VOLT/PH/HZ	(IN)	(LBS)	NOTES
CU-1	DAIKIN RZQ18TAVJU	SLEEP RM 1 A112	FC-1	1.5	17.6	12.2	15.5/12.5	R-410A	16.5	25	208/1/60	37/39/13	172	(1)(2)(3)(4)(5)
CU-2	DAIKIN RZQ18TAVJU	SLEEP RM 2 A114	FC-2	1.5	17.6	12.2	15.5/12.5	R-410A	16.5	25	208/1/60	37/39/13	172	(1)(2)(3)(4)(5)
CU-3	DAIKIN RZQ18TAVJU	SLEEP RM 3 A116	FC-3	1.5	17.6	12.2	15.5/12.5	R-410A	16.5	25	208/1/60	37/39/13	172	(1)(2)(3)(4)(5)
CU-4	DAIKIN RZQ18TAVJU	SLEEP RM 4 A118	FC-4	1.5	17.6	12.2	15.5/12.5	R-410A	16.5	25	208/1/60	37/39/13	172	(1)(2)(3)(4)(5)

<sup>(1)</sup> ALL CONDITIONS BASED AT 4,500 FEET ELEVATION.

<sup>(5)</sup> PROVIDE WITH INTERSYS BOX BK-RC-BAC-1 (OR EQUAL) FOR INTEGRATION INTO BAS THROUGH BACNET MSTP. MAC ADDRESS TO BE PROVIDED AND CONFIGURED BY CONTROLS CONTRACTOR.

							COOLING					HEATING				ELECTRIC SUP	PLEMENTAL HEATI	NG (2)			FI	ILTER	ELECTRICAL			PHYSICAL		
							NOI	MINAL	MINIMUM			NOMINAL	MINIMUM		MIN											WIDTH/		
	MANUFACTURER				VENTILATION	STATIC	CAP	ACITY	SENSIBLE	ENTERING	LEAVING	HEATING	HEATING	ENTERING	LEAVING	HEATING						MINIMUM				HEIGHT/		
	AND			AIRFLOW	RATE	PRESSURE	TOTAL	SENSIBLE	CAPACITY	AIR	AIR	CAPACITY	CAPACITY	AIR	AIR	CAPACITY	CAPACITY				ı	EFFICIENCY				DEPTH	WEIGHT	
ID	MODEL NUMBER	LOCATION	TYPE	(CFM)	(CFM)	(IN. W.G.)	(MBH)	(MBH)	(MBH)	(DB/WB)	TEMP	(MBH)	(MBH)	(DB/WB)	TEMP	(KW)	CONTROL	VOLT/PH/HZ	FLA	MOP REFRIC	ERANT	(MERV)	VOLT/PH/HZ	MCA	MOP	(IN)	(LBS)	NO
-C-1	DAIKIN FXTQ18TAVJUA	SLEEP RM 1 A112	VERTICAL AHU-DUCTED	420	100	0.5	17.0	12.0	7.7	75/62	55.1	20.7	8.1	70/52	91.0	5.0	MODULATING	208/1/60	24	25 R4	10A	8	208/1/60	4.9	15	18/21/45	115	(1)
FC-2	DAIKIN FXTQ18TAVJUA	SLEEP RM 2 A114	VERTICAL AHU-DUCTED	420	100	0.5	17.0	12.0	7.7	75/62	55.1	20.7	8.1	70/52	91.0	5.0	MODULATING	208/1/60	24	25 R4	10A	8	208/1/60	4.9	15	18/21/45	115	(1)
FC-3	DAIKIN FXTQ18TAVJUA	SLEEP RM 3 A116	VERTICAL AHU-DUCTED	420	100	0.5	17.0	12.0	7.7	75/62	55.1	20.7	8.1	70/52	91.0	5.0	MODULATING	208/1/60	24	25 R4	10A	8	208/1/60	4.9	15	18/21/45	115	(1)
FC-4	DAIKIN FXTQ18TAVJUA	SLEEP RM 4 A118	VERTICAL AHU-DUCTED	420	100	0.5	17.0	12.0	7.7	75/62	55.1	20.7	8.1	70/52	91.0	5.0	MODULATING	208/1/60	24	25 R4	I0A	8	208/1/60	4.9	15	18/21/45	115	(1)

<sup>(1)</sup> CAPACITY BASED AT 4,500 FEET ELEVATION.



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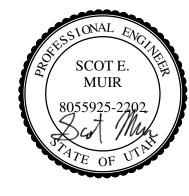


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al Engineer	VAN BOERUM & FRANK
Engineer	SPECTRUM
Engineer	VAN BOERUM & FRANK
esigner	RUBY THORP
t Planner	ROBERT GRIESCHE
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MECHANICAL SCHEDULES

Sheet Number

M602

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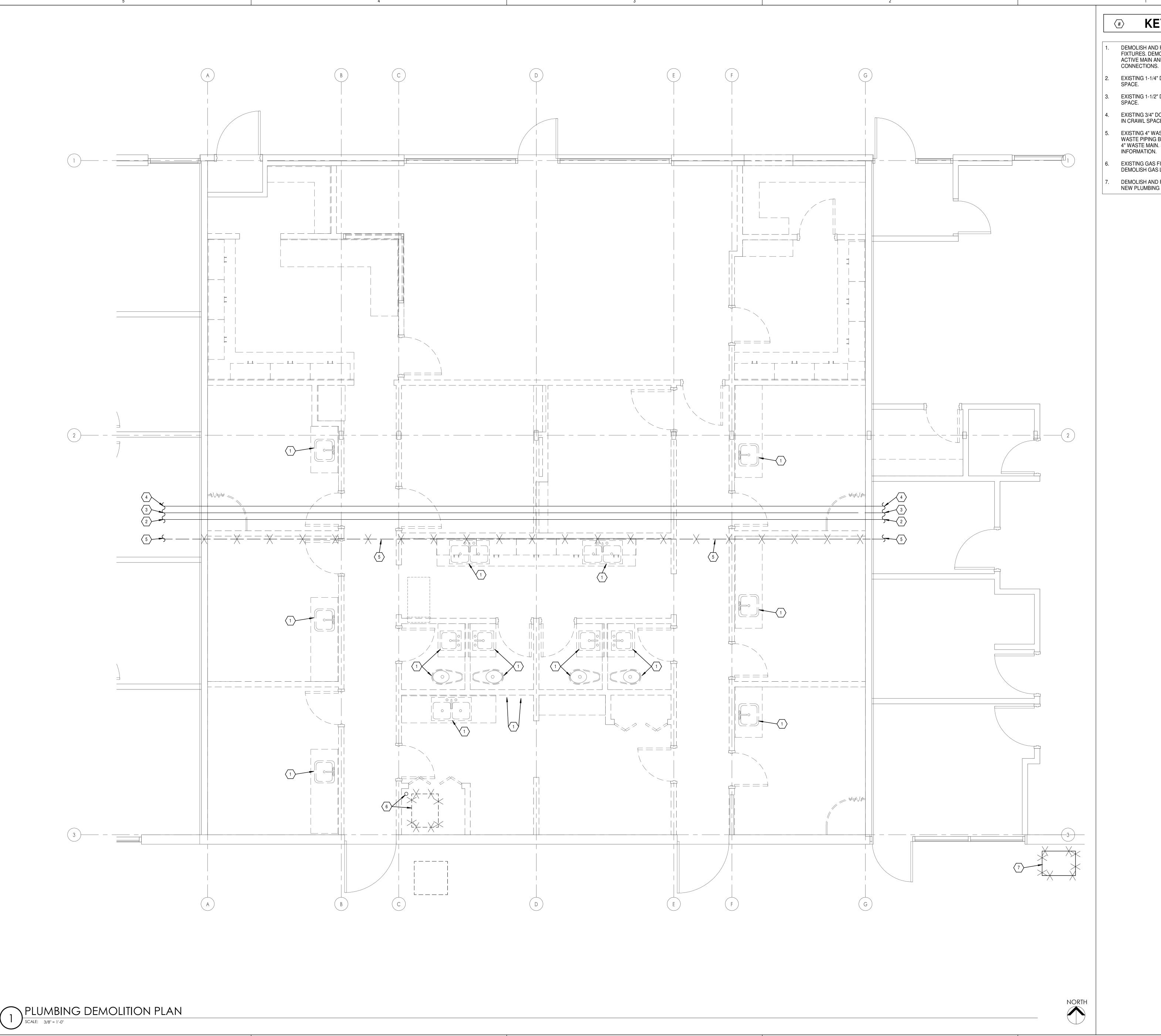
<sup>(2)</sup> UNIT SHALL PROVIDE FULL COOLING AT 95DB/62WB AMBIENT AND SPECIFIED HEATING CAPACITY AT -3 DEG F

<sup>(3)</sup> UNIT EQUIPPED WITH LOW AMBIENT BAFFLE KIT AND ALL OTHER ACCESSORIES REQUIRED FOR LOW AMBIENT HEATING OPERATION DOWN TO -3°F

<sup>(4)</sup> SYSTEM SHALL BE EQUIPPED WITH CONTROLS COMPATIBLE WITH WEB BASED BACNET CONTROL SYSTEM. WEB BASED SYSTEM SHALL BE CAPABLE OF CONTROL MONITORING, TRENDING, AND ADJUSTMENT. AT A MINIMUM THE FOLLOWING CONTROL POINTS SHALL BE AVAILABLE: RUN STATUS, FAN SPEED, ZONE TEMPERATURE SETPOINT, ZONE TEMPERATURE, OCCUPANCY STATUS.

<sup>(2)</sup> EQUIPPED WITH FACTORY PROVIDED ELECTRIC HEATING COIL MOUNTED WITHIN AHU CABINET (BASIS OF DESIGN DAIKIN HKSX03XC). PROVIDE SEPARATE ELECTRICAL CONNECTION, DISCONNECT, AND FUSE PROTECTION BY DIV. 26.

<sup>(3)</sup> PROVIDE AND INSTALL DES CHAMPS RLC-SERIES WATERLESS CONDENSATE TRAP.



# \* KEYED NOTES

1. DEMOLISH AND REMOVE ALL EXISTING PLUMBING FIXTURES. DEMOLISH ASSOCIATED PIPING BACK TO ACTIVE MAIN AND CAP. SEE PLUMBING PLAN FOR NEW CONNECTIONS.

2. EXISTING 1-1/4" DOMESTIC HOT WATER LINE IN CRAWL

EXISTING 1-1/2" DOMESTIC COLD WATER IN CRAWL

EXISTING 3/4" DOMESTIC HOT WATER CIRCULATION LINE IN CRAWL SPACE.

EXISTING 4" WASTE LINE. DEMOLISH AND REMOVE ALL WASTE PIPING BELOW SLEEP LAB SPACE. PROVIDE NEW 4" WASTE MAIN. SEE NEW PLAN FOR MORE INFORMATION

EXISTING GAS FIRED FURNACE TO BE REMOVED. DEMOLISH GAS LINE BACK TO ACTIVE MAIN AND CAP.

DEMOLISH AND REPLACE EXISTING GAS METER. SEE NEW PLUMBING PLANS FOR MORE INFORMATION.





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HOSPITAL
RECONFIGURATION SLEEP LAB
550 E 1400 N, Suite R
Logan, UT 84341



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B Sheet Reviewer

**Equipment Planner** 

K DATE DESCRIPTION

Original Issue



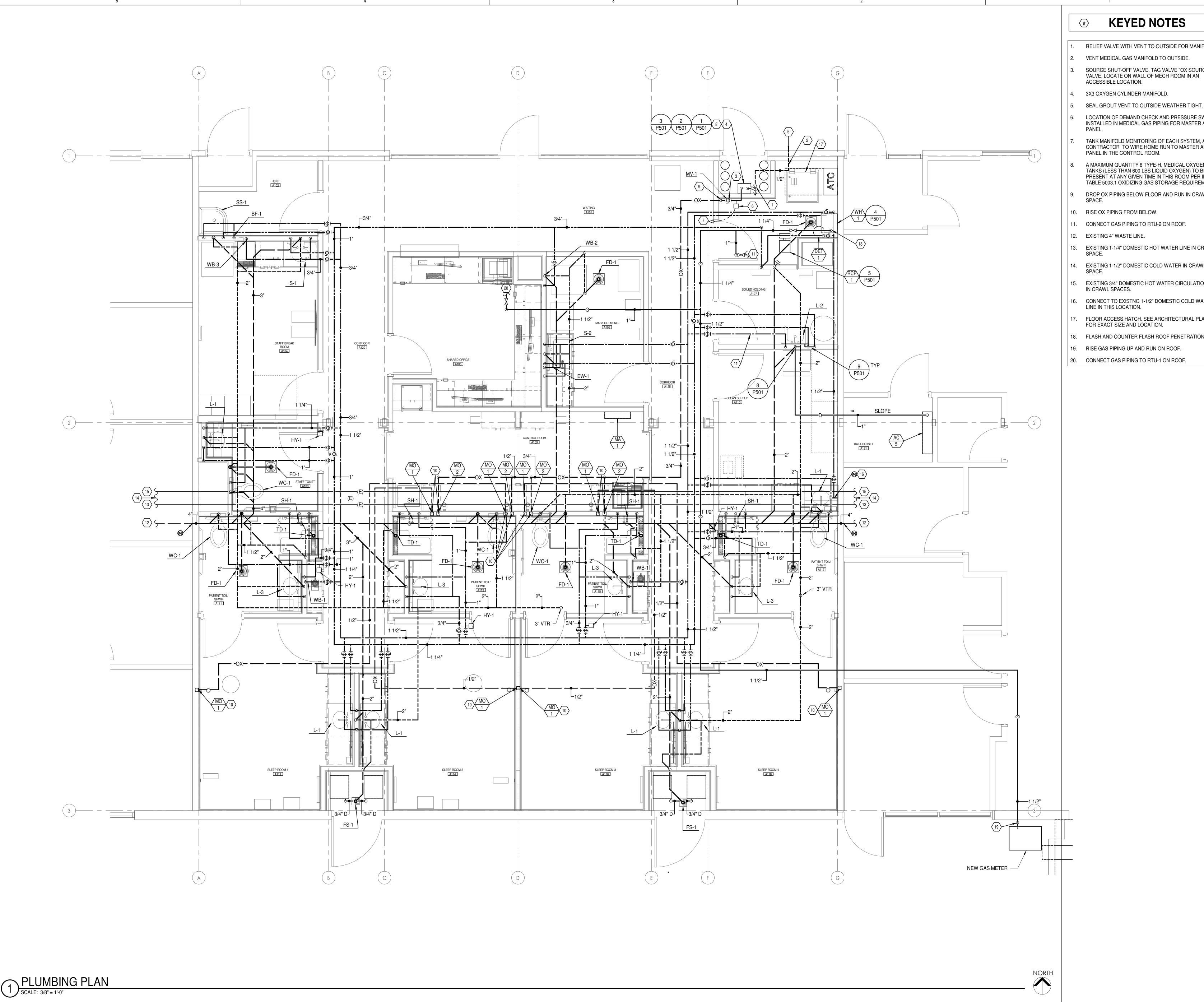
Sheet Nan

PLUMBING DEMOLITION PLAN

heet Number

P110

oject Status
100% Construction Documents





- 1. RELIEF VALVE WITH VENT TO OUTSIDE FOR MANIFOLD.
- SOURCE SHUT-OFF VALVE. TAG VALVE "OX SOURCE VALVE. LOCATE ON WALL OF MECH ROOM IN AN
- 4. 3X3 OXYGEN CYLINDER MANIFOLD.
- LOCATION OF DEMAND CHECK AND PRESSURE SWITCH INSTALLED IN MEDICAL GAS PIPING FOR MASTER ALARM
- TANK MANIFOLD MONITORING OF EACH SYSTEM, ATC CONTRACTOR TO WIRE HOME RUN TO MASTER ALARM PANEL IN THE CONTROL ROOM.
- A MAXIMUM QUANTITY 6 TYPE-H, MEDICAL OXYGEN TANKS (LESS THAN 600 LBS LIQUID OXYGEN) TO BE PRESENT AT ANY GIVEN TIME IN THIS ROOM PER IFC TABLE 5003.1 OXIDIZING GAS STORAGE REQUIREMENTS.
- DROP OX PIPING BELOW FLOOR AND RUN IN CRAWL
- 10. RISE OX PIPING FROM BELOW.
- 11. CONNECT GAS PIPING TO RTU-2 ON ROOF.
- 12. EXISTING 4" WASTE LINE.
- 13. EXISTING 1-1/4" DOMESTIC HOT WATER LINE IN CRAWL
- 14. EXISTING 1-1/2" DOMESTIC COLD WATER IN CRAWL
- 15. EXISTING 3/4" DOMESTIC HOT WATER CIRCULATION LINE
- 16. CONNECT TO EXISTING 1-1/2" DOMESTIC COLD WATER LINE IN THIS LOCATION.
- 17. FLOOR ACCESS HATCH. SEE ARCHITECTURAL PLANS
- 18. FLASH AND COUNTER FLASH ROOF PENETRATION.
- 19. RISE GAS PIPING UP AND RUN ON ROOF.
- 20. CONNECT GAS PIPING TO RTU-1 ON ROOF.





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Mechanical Engineer **Electrical Engineer** Plumbing Engineer

Sheet Reviewer

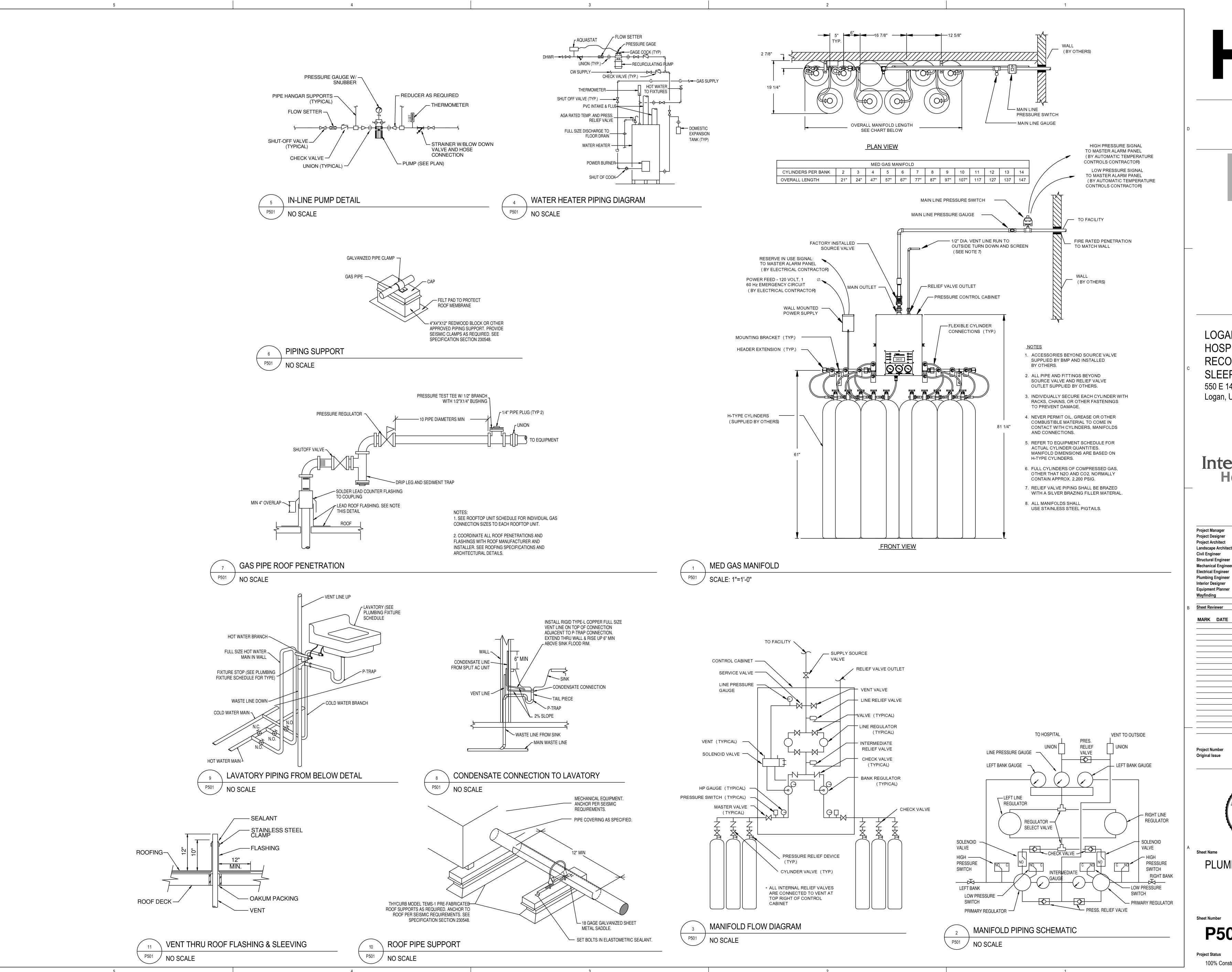
Interior Designer **Equipment Planner** 

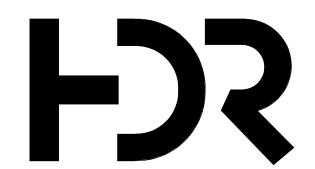
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PLUMBING PLAN

P112







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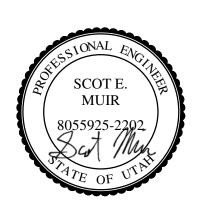
**Project Manager** TERRI SUDBROOK **Project Designer** ERIC MEUB **Project Architect** FRANK PENROSE Landscape Architect Civil Engineer **GREAT BASIN** Structural Engineer Mechanical Engineer **VAN BOERUM & FRANK Electrical Engineer** SPECTRUM **VAN BOERUM & FRANK** 

ROBERT GRIESCHE **Sheet Reviewer** Author

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RUBY THORP

Original Issue



11/6/20

PLUMBING DETAILS

P501

Project Status 100% Construction Documents

PLUMBING FIXTURE SCHEDULE

NOTES

WATER OUTLET BOX: WATER-TITE 82112 WATER OUTLET BOX WITH DRAIN, HAMMER ARRESTER AND QUARTER TURN BALL VALVE FOR USE WITH

COUNTERTOP ICE MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH. PROVIDE 1/4" COPPER TUBE

DESCRIPTION

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER.

WATER OUTLET BOX

**FIXTURE** 

(IN)

(IN)

(IN)

(IN)

ID

BF-1

EW-1

FD-1

FS-1

HY-1

L-1

L-2

L-3

S-1

S-2

SS-1

SH-1

TD-1

WC-1

WB-1

WB-2

WB-3

	M	EDICAL GAS ALARM	PANEL SCHE	DULE	
			SERVICES TO	BE MONITORED	
	STATIONS				
SYMBOL	MONITORED	LOCATION	OX	MA	REMARKS
MA-1	MASTER ALARMS	CONTROL ROOM	Х		1,2

1. COORDINATE EXACT LOCATION WITH ARCHITECTURAL

2. DEDICATED WIRING FROM SOURCE SIGNALS TO ALARM

	MEDICAL GAS VALVE SCHEDULE										
		PIPE SIZE									
SYMBOL	AREA SERVED	OX	REMARKS								
MV-1	SLEEP LAB	1/2"	1								

1. WITH GAUGES

		<b>MEDICAL GAS</b>	<b>OUTLETS SCHEDULE</b>	
		# OF OUTLETS	PIPE DROP SIZE TO OUTLET(S)	
SYMBOL	ROOM TYPE	OX	OX	REMARKS
MO-1	SLEEP LAB	1	1/2"	1,2
MO-2	SLEEP LAB	1	1/2"	1,2,3

UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS

1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS

2. WALL MOUNTED OUTLETS

3. OUTLET COMPLETE WITH 0-15 LPM FLOW METER AND CONNECTION HOSE ON OUTLET FOR CONNECTION TO ADJACENT OUTLET.

		G	AS FIRE	D WATER	RHEA	TER SCH	HEDU	LE			
						RECOVERY			ELECTRICAL		
	MANUFACTURER					RATE	FLUE	DIMENSIONS			
	AND			EFFICIENCY	INPUT	@ 90 F	SIZE	H/W/D			
ID	MODEL NUMBER	LOCATION	SERVICE	(%)	(MBH)	DELTA T	(IN)	(IN)	(AMPS)	V/PH	NOTES
WH-1	INTELLIHOT I200 GEN II	MECH A103	DOMESTIC	94	199.95	4.2 GPM	3	26.2/17.7/15	4.2	120/1	(1)(2)

(1) UNIT SHALL BE POWER VENTED, INCLUDE CONDENSATE NEUTRALIZER KIT AND LINKED CONTROL SYSTEM.

(2) WATER HEATER DISCHARGE TEMPERATURE TO BE SET AT 130 DEG. F.

# NATURAL GAS REQUIREMENTS

CONNECTION BETWEEN SUPPLY VALVE AND ICE MACHINE.

EQUIP. NO.	QTY.	LOCATION	EQUIPMENT	EQUIP BTUH INPUT	TOTAL CFH
RTU-1	1	ROOF	RTU	102,500	116
RTU-2	1	ROOF	RTU	82,000	93
WH-1	1	MECH	WATER HEATER	199,950	227

TOTAL (BTUH) = BTU/CUBIC FT. = TOTAL CFH=

1 1/4

REPLACE EXISTING 0.25 PSIG GAS METER WITH NEW 0.25 GAS METER.

METER TO BE INSTALLED BY GAS SUPPLIER AND PAID FOR BY CONTRACTOR AND SHALL INCLUDE NEW EARTHQUAKE VALVE.

WATER OULTET BOX

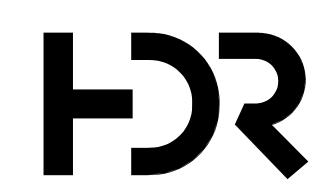
				DOMES	STIC	<b>PUMP</b>	SCHE	DULE					
	PUMP MOTOR											SIZE	
	MANUF.			FLOW								LENGTH/	
	AND		SYSTEM	RATE	HEAD	WORKING	%	PUMP				WIDTH	
SYMBOL	MODEL NO.	LOCATION	SERVED	(GPM)	(FT)	FLUID	EFF.	TYPE	WATTS	RPM	VOLT/PH	(IN)	REMARKS
RCP-1	B&G NBF-10S/LW	MECH A103	DOM HW	1	13	WATER	-,-	CIRCULATOR	52	2800	115/1	5.25/5	(1)(2)

(1) BRONZE BODY FOR DOMESTIC WATER USE.

(2) PUMP COMPLETE WITH B&G AQUASTAT MODEL AQS-3/4 AND AUTOMATIC TIMER KIT MODEL TC-1.

	DOMESTIC EXPANSION TANK SCHEDULE												
			FLUID		PHYSICAL								
	MANUFACTURER			MIN. TANK/	TANK	RELIEF	DIA./	NPT					
	AND		WORKING	ACCEPTANCE	SIZE	VALVE	HEIGHT	FITTING					
ID	MODEL NUMBER	LOCATION	FLUID	(GAL)	(GAL)	(PSIG)	(IN)	(IN)	NOTES				
DET-1	AMTROL ST-5C	MECHANICAL 103	WATER	0.9	2	75	8/14	3/4	(1)				

1. TANK LINER SUITABLE FOR POTABLE WATER, ASME.





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**Project Manager Project Designer** Project Architect Landscape Architect Civil Engineer **Structural Engineer** Mechanical Engineer **Electrical Engineer** Plumbing Engineer Interior Designer **Equipment Planner** 

Wayfinding

**GREAT BASIN** REAVELEY **VAN BOERUM & FRANK** SPECTRUM VAN BOERUM & FRANK RUBY THORP ROBERT GRIESCHE

TERRI SUDBROOK

FRANK PENROSE

ERIC MEUB

ARCSITIO

**Sheet Reviewer** Author MARK DATE DESCRIPTION



11/6/20

PLUMBING

REFEREN(	CE AND LINE SYMBOLS
01 A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
02 A5 E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
03 A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME 04 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
05 1	KEYNOTE INDICATOR.
07 CU-1	REVISION INDICATOR.  EQUIPMENT INDICATOR.
08  X-X  XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
<sup>09</sup> —\	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
11 <sub>MATCH LINE</sub> SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
12	NEW LINE: MEDIUM LINE.
13	HIDDEN FEATURES LINE: HIDDEN, THIN LINE  EXISTING TO REMAIN LINE: THIN LINE.
15	DEMOLITION LINE: DASHED, MEDIUM LINE
16	PROPERTY LINE: DASHED, WIDE LINE.
18	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.  ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF
EF-X	EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.  EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK
<u>X-X</u> 1LA-3	SHOWN ON EQUIPMENT SCHEDULE. "1LA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING DI	EVICES
03 II	RECEPTACLE, DUPLEX: NEMA 5-20R.  RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
Фа <sup>04</sup>	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
06	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
08 <b>s</b>	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
12 WP	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.  RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
13	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
15	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
16	RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R.  RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
17	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
18	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
19 # WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
20	RECEPTACLE, DUPLEX, RECESSED: NEMA 5-20R.
23	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.  RECEPTACLE, QUADRAPLEX ON EMERGENCY
24	POWER: NEMA 5-20R.  RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
25	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
27	RECEPTACLE, QUADRAPLEX, CONNECTED TO UPS: NEMA 5-20R.  RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT
<del>■</del> 28 ↓	INTERRUPTER: NEMA 5-20R.  RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
33	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
36 FB#	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.  FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
37 PP#	POWER POLE. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
38 PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
39 Ф	SWITCH, DIMMER.
40 X \$ 41 X	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
\$2 42 X \$3	SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED).  SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
43 X \$4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
45 \$K 52	SWITCH, KEY OPERATED.
<b>Ф</b> т	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.  RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT
56	INTERRUPTER, CONNECTED TO UPS: NEMA 5-20R.  RECEPTACLE, HOSPITAL GRADE, SINGLE PLEX, WITH USB OUTLET
57 <b>Ö</b>	RECEPTACLE, DULEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
58 <b>₩</b>	RECEPTACLE, QUADRAPLEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
59 #	INDICATES A RECEPTACLE IS AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO
	PLANS FOR CONTROL METHOD)

	SYMBOLS LEGEND		SYMBOLS LEGE
SYMBOL 00	DESCRIPTION	SYMBOL	DESCRIPTION
WIRING ME	THODS		AL POWER AND DISTRIBUTION
1	WIRING.	30	
2	WIRING TURNED UP OR TOWARDS OBSERVER.	🖶	CT CABINET PER UTILITY'S REQUIREMENTS
3	WIRING TURNED DOWN OR AWAY FROM OBSERVER.		
4	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF	31	
	ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.		TRANSFER SWITCH (ONE-LINE DIAGRAM).
A-1,3,5	USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.	32	
5	ELECTRICAL SPECIFICATIONS.	DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND	33	
1	NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT	• <del> </del>	SERVICE ENTRANCE SURGE PROTECTION
A-1,3,5	SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES	35 G	GENERATOR, POWER (ONE-LINE DIAGRAM
	EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.	36 M	METER.
3	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = :	38 VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLL DIAGRAM).
	CATV = CABLE TELEVISION NC = NURSE CALL CCTV = CLOSED CIRCUIT P = POWER	41 <b>Z</b> r	DISCONNECT SWITCH, FUSED.
x	TELEVISION RC = RIGID CONDUIT FA = FIRE ALARM S = SOUND	42	DISCONNECT SWITCH, UNFUSED.
	FO = FIBER OPTICS T = TELEPHONE I = INTERCOM TV = TELEVISION	43	
	OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND	44	STARTER, COMBINATION WITH DISCONNEC
)	WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.	45	STARTER OR MOTOR CONTROLLER.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.	•	PUSHBUTTON.
•	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.	46	PUSHBUTTONS, MOTOR CONTROL.
1 1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.	47	PANELBOARD CABINET, FLUSH MOUNTED.
2 (HC)	ADA ACCESS PUSH PLATE	48	PANELBOARD CABINET, SURFACE MOUNTE
3 <b>D</b>	JUNCTION BOX.	49	PANELBOARD CABINET, SURFACE MOUNTE
4	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION	50	
Φ <sub>SC</sub>	CONNECTION.  JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND	DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
⊕ <sub>SE</sub>	ROUGH-IN PER SECURITY DRAWINGS.	51	
PB	PULL BOX.	LP	LIGHTING RELAY, CONTACTOR PANEL, OR
1 🛓	EARTH GROUND (ONE-LINE DIAGRAM).	52	LIGHTING CONTROL STATION.
<sup>2</sup> Ф <sub>С</sub>	JUNCTION BOX, CEILING.	53	DIMMING ENTRY STATION OR CONTROL ST MOUNTED.
3	LADDER RACK.	55 \$ST	SWITCH, TOGGLE MOTOR STARTER WITH (PROTECTION.
5	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT	56 75	TRANSFORMER: NUMBER INDICATES kVA.
0 ELECTRICA	SCHEDULE FOR REQUIREMENTS.  L POWER AND DISTRIBUTION	59	RELAY CONTACT, NORMALLY CLOSED (ON
1 I	FUSE WITH RATING (ONE-LINE DIAGRAM).	60	
	FUSE WITH RATING (ONE-LINE DIAGRAM).		RELAY CONTACT, NORMALLY OPEN (ONE-L
7	DISCONNECT, FUSED (ONE-LINE DIAGRAM).		SPECIALIZED TRANSFER SWITCH (ONE-LIN
			-
3	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).	89 PRM	PHASE ROTATION MONITOR (ONE-LINE DIA
7		LIGHTING	(REFER TO FIXTURE SCHEDULE F
1	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).	01 (W-3)	FIXTURE IDENTIFICATION: (IA/ 2) INDICATES
1			FIXTURE IDENTIFICATION: (W-3) INDICATES SCHEDULED.
(	CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).	02	
1		(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WI'CONNECTED TO GENERATOR AS INDICATE FIXTURE TYPE AS SCHEDULED.
[-(\frac{1}{4})	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).	05	
<u>-</u>		07	EGRESS DIRECTION ARROW (EXIT SIGNS).
_ (	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT	$\otimes$	EXIT SIGN: SINGLE FACE; CEILING MOUNTE
└── GFP	PROTECTION (ONE-LINE DIAGRAM).	$^{08}                                    $	EXIT SIGN: SINGLE FACE; WALL MOUNTED
<u>uu</u>	TRANSFORMER (ONE-LINE DIAGRAM).	09	EXIT SIGN: DOUBLE FACE; CEILING MOUNT
m	TIVANOI ONWER (ONE-LINE DIAORAWI).	10	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
		00 LIGHTING (	CONTROL
"1H"	PANELBOARD (ONE-LINE DIAGRAM).	01 *<	OCCUPANCY SENSOR, DUAL TECHNOLOGY OMNI-DIRECTIONAL, CEILING.
		03	OCCUPANCY SENSOR, DUAL TECHNOLOGY
		06	VACANCY SENSOR, DUAL TECHNOLOGY,
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS	07	OMNI-DIRECTIONAL, CEILING.
FIII	SHOWN (ONE-LINE DIAGRAM).	08	VACANCY SENSOR, DUAL TECHNOLOGY, W
		(P)	PHOTOCELL.
225/3	DANIEL DOADD MUTULAMAN O'DOLUT DOTTO STORE	<sup>09</sup> TC	TIME CLOCK.
"1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).	10 HR	HOUSE BELAY COMES IN THE STATE
	(SITE LINE DIAGINAVI).		HOUSE RELAY SCHEDULE INDICATOR.
<u> </u>		11	
225/3 "1H"		101	LITE TOUCH STATION INDICATOR.
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).	14	SWITCH/OCCUPANCY SENSOR COMBO, DU
60/2		15	
60/3		<b>'\$</b> '	SWITCH/VACANCY SENSOR COMBO, DUAL DIMMER SWITCH/OCCUPANCY SENSOR CO
225/3		<b>1 1 1</b>	DUAL TECHNOLOGY, WALL.
"1H"	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).	17 <b>*</b>	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
25/3		18 a,b	LOW VOLTAGE DIGITAL LIGHTING CONTRO "a,b" INDICATES ZONING WHERE SHOWN (F
TRUCTUR	ED CABLING IHC	<b>\$</b>	"a,b" INDICATES ZONING WHERE SHOWN (F SCHEDULES, AND DETAILS FOR EXACT BU' AND PROGRAMMING REQUIREMENTS)
1 🗸	IHC COMMUNICATIONS DEVICE (1 DATA).	19 DC	DIGITAL LIGHTING DIMMING CONTROLLER
2 7	IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG).	20 LC	DIGITAL PLUG LOAD CONTROLLER
3		23	
▼ 4 <u> </u>	IHC COMMUNICATIONS DEVICE (1 DATA WALL PHONE).	25 RC	DIGITAL LIGHTING ROOM CONTROLLER
<b>V</b>	IHC COMMUNICATIONS DEVICE (2 DATA).	26 SM	LIGHTING NETWORK SEGMENT MANAGER
<b>▼</b> 3	IHC COMMUNICATIONS DEVICE (3 DATA).		LIGHTING SPACE CONTROL TYPE. X INDICA SCHEDULE / DIAGRAM.
6 ▼4	IHC COMMUNICATIONS DEVICE (4 DATA).	°CCTV	
<sup>7</sup> <b>▼</b> 6	IHC COMMUNICATIONS DEVICE (6 DATA).	01—P	CCTV CABLE, POWER.
8	IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR	02V_	CCTV CABLE, VIDEO SIGNAL.
9 <b>▼</b> WAP	(1 DATA).  IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2	03 CCTV	CCTV HEADEND EQUIPMENT.
▼	DATA).	04	·
	ı	M	CCTV MONITOR.
CLOCK		05	
	CLOCK.	05 D 06 PTZ D	CCTV CAMERA/ENCLOSURE WITH LENS, TY

	SYMBOLS LEGEND
	DESCRIPTION
	AL POWER AND DISTRIBUTION
30	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
31	TRANSFER SWITCH (ONE-LINE DIAGRAM).
32 DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
<sup>33</sup> <b>←</b> ↓ ı	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
35 G	GENERATOR, POWER (ONE-LINE DIAGRAM).  METER.
VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
<sup>41</sup>	DISCONNECT SWITCH, FUSED.
42	DISCONNECT SWITCH, UNFUSED.
43 <b>⋉</b> ¬	STARTER, COMBINATION WITH DISCONNECT SWITCH.
44	STARTER OR MOTOR CONTROLLER.
45	PUSHBUTTON.
46	PUSHBUTTONS, MOTOR CONTROL.
47	PANELBOARD CABINET, FLUSH MOUNTED.
48	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
49	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
50	
DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
51	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
LP 52 <b>■</b>	LIGHTING CONTROL STATION.
53	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH
55 \$ST	MOUNTED.  SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD
56 75	PROTECTION.  TRANSFORMER: NUMBER INDICATES kVA.
59 — <b>1</b>	
60 -	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).  SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
89 PRM	PHASE ROTATION MONITOR (ONE-LINE DIAGRAM).
00	REFER TO FIXTURE SCHEDULE FOR SYMBOLS)
01 (W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
02 (W-3) 05	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
↑ 07	EGRESS DIRECTION ARROW (EXIT SIGNS).
08	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
09	EXIT SIGN: SINGLE FACE; WALL MOUNTED
10 0	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
00	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING (	OCCUPANCY SENSOR, DUAL TECHNOLOGY,
* 03	OMNI-DIRECTIONAL, CEILING.
06	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
07	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
08	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
08 P	PHOTOCELL.
10 HR	TIME CLOCK.  HOUSE RELAY SCHEDULE INDICATOR.
1 11 101	
1-1-1	LITE TOUCH STATION INDICATOR.
\$	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
<b>'\$'</b>	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.  DIMMER SWITCH/OCCUPANCY SENSOR COMBO,
₫	DUAL TECHNOLOGY, WALL.
<b>™</b> 18	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
a,b <b>⑤</b>	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
19 DC	DIGITAL LIGHTING DIMMING CONTROLLER
20 LC	DIGITAL PLUG LOAD CONTROLLER
<sup>23</sup> RC	DIGITAL LIGHTING ROOM CONTROLLER
25 SM	LIGHTING NETWORK SEGMENT MANAGER
26 X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
°CCTV	•
01—P	CCTV CABLE, POWER.
02—V	CCTV CABLE, VIDEO SIGNAL.
03 CCTV	CCTV HEADEND EQUIPMENT.
04 M	CCTV MONITOR.
1 .v.	
05	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.  CCTV CAMERA WITH PAN, TILT AND ZOOM.

		SYMBOLS LEGEND
S	YMBOL	DESCRIPTION
	E ALARI	
01		
02 .	FSA	FIRE SYSTEM ANNUNCIATOR.
	FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
07	СМ	CONTROL MODULE.
80	MM	MONITOR MODULE.
09	<u> </u>	FIRE ALARM MANUAL PULL STATION.
10		TINE ALANIMINATORE TOLE STATION.
	R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A
	<u> </u>	FIRE.
11		MAGNETIC DOOR HOLDER.
15		
19	<u>(S)</u>	DETECTOR, SMOKE.
19	<b>S</b> <sup>E</sup>	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
22	ļ	
	(5)	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE
25		STROBE.
26		STRUBE.
20	75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
28		ALARM, HORN/STROBE, ONE ASSEMBLY.
29		ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT
30		INDICATES CANDELA RATING.
ی		ALARM, CHIME/STROBE, ONE ASSEMBLY.
33	E	SPEAKER, EVACUATION.
34	<u> </u>	SPEAKER, EVACUATION, COMBINATION STROBE.
35		DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE
	X	PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON
	$\overline{}$	THE FIRE SPRINKLER SHOP DRAWINGS.
36	$\bigcirc$	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES
	$\mathbb{X}$	SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP PRAYUNGS
37		ON THE FIRE SPRINKLER SHOP DRAWINGS.
		SMOKE DAMPER.
	SD	· <del>·</del>
38	<u> </u>	
		FIRE AND SMOKE DAMPER.
42		ALABA HORMOTRORE ONE ACCEMBLY OF THE MOUNTER
	>() 75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
<sup>43</sup> D	75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
44	(2) 75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT
00		INDICATES CANDELA RATING.
01		GY SYSTEMS
		TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS.
		EXAMPLES:
_	_x_	C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREE
	`	INSULATED  M = MICROPHONE CABLE
		S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
02	<u> </u>	
21	(S) <sub>#</sub>	SPEAKER, CEILING MOUNTED.
00		EQUIPMENT CABINET.
22		MEDIA CONNECTION PLATE.
23	<b>(A)</b>	AUDIO/VISUAL OUTLET.
24		SCREEN, PROJECTION, CEILING MOUNTED.
25		
		PROJECTOR, CEILING MOUNTED.
26	$\square$	VIDEO CONFERENCING CAMERA.
35	(V)	VOLUME CONTROL.
55	<u> </u>	· · · <del></del> ·
	PA	AMPLIFIER (ONE-LINE DIAGRAM).
		·
56		
	РВ	POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM).
57	/	
	<b></b>	
_	- <b>/</b> W/-	TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
00	-/WV- RSE CAI	
00		
00 NU	RSE CAI	JUNCTION BOX.
00 <b>N</b> UI 01 02	RSE CAI	L .
00 NUI 01 02 03	RSE CAI	JUNCTION BOX.
00 <b>N</b> UI 01 02	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.
00 NUI 01 02 03	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.
00 NUI 01 02 03 04	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.
00 NUI 01 02 03 04 05 06	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.
00 NUI 01 02 03 04 05 06 07	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.
00 NUI 01 02 03 04 05 06	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
00 NU 01 02 03 04 05 06 07 08 09 09 0	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.
00 NU 01 02 03 04 05 06 07 08 09 09 0	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.
00 NUI 01 02 03 04 05 06 07 08 09 [ 10 [	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.
00 NU 01 02 03 04 05 06 07 08 09 [	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 1	RSE CAI        B   B  C  B  C  C  C  C  C  C  C	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 1	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 00 SEC	RSE CAI        B   B  C  B  C  C  C  C  C  C  C	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 0	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE
00 NU 01 02 03 04 05 06 07 08 09 [ 11 0	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 00 EC 01 02 [	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.  ACCESS CONTROL HEADEND EQUIPMENT.  SECURITY CONTROL PANEL.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 00 SEC 01 02 [ 03 [ 04 [ 04 [ 04 [ 04 [ 04 [ 04 [ 04	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.  ACCESS CONTROL HEADEND EQUIPMENT.  SECURITY CONTROL PANEL.  INTRUSION DETECTION HEADEND EQUIPMENT.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 00 5E0 01 02 [ 03 [ 04 [ 05 [ 05 [ 05 [ 05 [ 05 [ 05 [ 05	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.  ACCESS CONTROL HEADEND EQUIPMENT.  SECURITY CONTROL PANEL.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 00 SEC 01 04 [ 04	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.  ACCESS CONTROL HEADEND EQUIPMENT.  SECURITY CONTROL PANEL.  INTRUSION DETECTION HEADEND EQUIPMENT.  CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE
00 NU 01 02 03 04 05 06 07 08 09 [ 11 00 SE0 04 [ 04 [ 05 [ 06 [ 06 [ 06 [ 06 [ 06 [ 06 [ 06	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.  ACCESS CONTROL HEADEND EQUIPMENT.  SECURITY CONTROL PANEL.  INTRUSION DETECTION HEADEND EQUIPMENT.  CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.  CARD READER.
00 NU 01 02 03 04 05 06 07 08 09 [ 11 0	RSE CAI	JUNCTION BOX.  CORRIDOR LIGHT.  BATHROOM PULL CORD STATION.  DUTY STATION.  EMERGENCY ASSISTANCE CALL STATION.  EMERGENCY ASSISTANCE CODE BLUE CALL STATION.  PATIENT STATION.  STAFF STATION.  TOUCH SCREEN NURSE CALL MASTER STATION.  ZONE LIGHT CONTROLLER.  NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.  SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.  ACCESS CONTROL HEADEND EQUIPMENT.  SECURITY CONTROL PANEL.  INTRUSION DETECTION HEADEND EQUIPMENT.  CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.

REMOTE DOOR RELEASE BUTTON.

PANIC DURESS SWITCH.

SYMBOL	DESCRIPTION
00 TV DISTRIE	BUTION
01—T	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
02—TR	TV DISTRIBUTION CABLE, TRUNK.
O3 CMB	COMBINER.
04 DC	DIRECTIONAL COUPLER.
05 DA	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
06 SPL	SPLITTER (ONE-LINE DIAGRAM).
07	TV OUTLET.
<sup>10</sup> -\\\\\-	TERMINATOR, 75 OHM (TV DISTRIBUTION).

**ABBREVIATIONS** 

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

ı				
	1P	SINGLE POLE	kV	KILOVOLT
	1PH	SINGLE-PHASE	kVA	KILOVOLT AMPERE
	1WAY	ONE-WAY	kVAR	KILOVOLT AMPERE REACTIVE
	2/C	TWO-CONDUCTOR	kW	KILOWATT
	2WAY 3/C	TWO-WAY THREE-CONDUCTOR	kWh LED	KILOWATT HOUR LIGHT EMITTING DIODE
	3WAY	THREE-WAY	LED	LIQUID TIGHT FLEXIBLE META
	4OUT	QUADRUPLE RECEPTACLE		CONDUIT
		OUTLET	LFNC	LIQUID TIGHT FLEXIBLE
	4PDT	FOUR-POLE DOUBLE THROW	LPS	NONMETALLIC CONDUIT LOW PRESSURE SODIUM
	4PST 4W	FOUR-POLE SINGLE THROW FOUR-WIRE	LRA	LOCKED ROTOR AMPS
	4WAY	FOUR-WAY	LTG	LIGHTING
	A	ABOVE COUNTER	LV	LOW VOLTAGE
	AC	ARMORED CABLE	MATV	MASTER ANTENNA TELEVISIO
	ADA	AMERICANS WITH DISABILITIES	MAX	SYSTEM MAXIMUM
	ADJ	ACT ADJACENT	MC	METAL CLAD
	AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
	AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
	AIC	AMPERE INTERRUPTING	MCC	MOTOR CONTROL CENTER
	A 1 1 1 1 A	CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
	ALUM AMP	ALUMINUM AMPERE	MDP MG	MAIN DISTRIBUTION PANEL MOTOR GENERATOR
	ANN	ANNUNCIATOR	MH	MANHOLE
	AP	ACCESS POINT (WIRELESS	MIN	MINIMUM
		DATA)	MLO	MAIN LUGS ONLY
	AR ASC	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT PROTECTION
	ASC	AMPS SHORT CIRCUIT AUTOMATIC TRANSFER	MTS	MANUAL TRANSFER SWITCH
	7110	SWITCH	NA NA	NOT APPLICABLE
	AV	AUDIO VISUAL	NC	NORMALLY CLOSED
	AWG	AMERICAN WIRE GAGE	NEC	NATIONAL ELECTRICAL CODE
	BB XFMR	BUCK-BOOST TRANSFORMER	NEMA	NATIOANL ELECTRICAL MANUFACTURERS
	C	CEILING MOUNTED		ASSOCIATION
	CATV	COMMUNITY ANTENNA	NFC	NATIONAL FIRE CODE
	0.0	TELEVISION	NFPA	NATIONAL FIRE PROTECTION
	CB CCBA	CIRCUIT BREAKER CUSTOM COLOR AS SELECTED	NIC	ASSOCIATION NOT IN CONTRACT
	CCBA	BY ARCHITECT	NL NL	NIGHT LIGHT
	CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
	CF/CI	CONTRACTOR FURNISHED/	NTS	NOT TO SCALE
	CF/OI	CONTRACTOR INSTALLED CONTRACTOR FURNISHED/	OC	ON CENTER
	CI-/OI	OWNER INSTALLED	OCP	OVER CURRENT PROTECTION
	CFBA	CUSTOM FINISH AS SELECTED	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
	CKT	BY ARCHITECT	OF/OI	OWNER FURNISHED/ OWNER
	CKT CM	CIRCUIT CONSTRUCTION MANAGER		INSTALLED
	CND	CONDUIT	OFP OH DR	OBTAIN FROM PLANS
	СО	CONVENIENCE OUTLET	OL	OVERHEAD (COILING) DOOR OVERLOAD
	COR	CONTRACTING OFFICER'S	PB	PUSHBUTTON
	CP	REPRESENTATIVE CONTROL PANEL	PF	POWER FACTOR
	CT	CURRENT TRANSFORMER	PH	PHASE
	CTV	CABLE TELEVISION	PNL PT	PANEL TRANSFORMER
	CU	COPPER	PTZ	POTENTIAL TRANSFORMER PAN/TILT/ZOOM
	dBA	UNIT OF SOUND LEVEL	QTY	QUANTITY
	DPDT	DOUBLE POLE, DOUBLE THROW	R	REMOVE
	DS	DISCONNECT SWITCH	RCP	REFLECTED CEILING PLAN
	EA	EACH	RMC	RIGID METAL CONDUIT
	EM	EMERGENCY	RNC RPM	RIGID NONMETAL CONDUIT REVOLUTIONS PER MINUTE
	EMT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND RELOCATE
	ENT	ELECTRIC NONMETALLIC TUBING	S/S	START/STOP
	EPO	EMERGENCY POWER OFF	SCA	SHORT CIRCUIT AMPS
	EQUIP	EQUIPMENT	SCBA	STANDARD COLOR AS
	EX	EXISTING	SF	SELECTED BY ARCHITECT SQUARE FOOT (FEET)
	F FA	FURNITURE MOUNTED FIRE ALARM	SFBA	STANDARD FINISH AS
	FCP	FIRE ALARM CONTROL PANEL		SELECTED BY ARCHITECT
	FLA	FULL LOAD AMPS	SPD	SURGE PROTECTIVE DEVICE
	FMC	FLEXIBLE METAL CONDUIT	SPDT SPEC	SINGLE POLE, DOUBLE THRON SPECIFICATION
	FOB	FREIGHT ON BOARD	SPST	SINGLE POLE, SINGLE THROW
	FVNR	FULL VOLTAGE NON-REVERSING	ST	SINGLE THROW
	FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
	G	GROUND	SWGR	SWITCHGEAR
	GEN	GENERATOR	TL TP	TWIST LOCK TELEPHONE POLE
	GFCI	GROUND FAULT INTERRUPTER	TP	TELEPHONE POLE TWISTED PAIR
	GFP	GROUND FAULT PROTECTION	TTB	TELEPHONE TERMINAL BOARI
	HD HID	HEAVY DUTY HIGH INTENSITY DISCHARGE	TV	TELEVISION
	HOA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE SURGE
	HP	HORSE POWER	TYP	SUPPRESSER TYPICAL
	HPF	HIGH POWER FACTOR	UF	UNDERFLOOR
	HPS	HIGH PRESSURE SODIUM	UGND	UNDERGROUND
	HV HZ	HIGH VOLTAGE HERTZ	UPS	UNINTERRUPTIBLE POWER
	HZ I/O	INPUT/ OUTPUT	.,	SUPPLY
	IG	ISOLATED GROUND	V VA	VOLTS VOLT AMPERE
	IMC	INTERMEDIATE METAL	VFC/VF	
	INI/IO	CONDUIT	D	CONTROLLER
	IN/IS IR	INSULATED/ ISOLATED INFRARED	W/	WITH
	J-BOX	JUNCTION BOX	W/O	WITHOUT
1			WP	WEATHERPROOF

XFMR TRANSFORMER

## GENERAL ELECTRICAL NOTES CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE

INCLUDED IN THE CONTRACT SUM. A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER

FURNISHED THE MATERIALS OR EQUIPMENT.

THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

PROVIDE LABELS ON ALL NEW DEVICES PER PROJECT SPECIFICATIONS CONFORMING WITH DIVISION 26 SPECIFICATIONS FOR IDENTIFICATION OF ELECTRICAL EQUIPMENT AND INTERMOUNTAIN'S DIVISION 27 SPECIFICATIONS PRIOR TO SUBSTANTIAL COMPLETION.

# **ELECTRICAL SHEET INDEX**

EEC001 SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES EEC501 ELECTRICAL DETAILS EEC701 TYPICAL MOUNTING HEIGHT DETAILS EEC702 TYPICAL LABELING DETAILS EDC101 LEVEL 1 ELECTRICAL DEMOLITION PLAN EPC101 LEVEL 1 POWER PLAN EPC601 ONE-LINE DIAGRAM - NORMAL EPC602 SCHEDULES ELC101 LEVEL 1 LIGHTING PLAN ETC001 TELECOM SCHEDULES, NOTES, AND RISER DIAGRAMS ETC101 LEVEL 1 TELECOMMUNICATIONS FLOOR PLAN ETC501 TELECOM DETAILS ETC502 TELECOM DETAILS xETC60 VOICE/ DATA CONDUIT RISER DIAGRAM EYC101 LEVEL 1 AUXILIARY PLAN EYC601 AUXILIARY RISER DIAGRAMS

## DEFINITIONS NOTE: ALL DEFINITIONS MAY NOT BE USED.

EYC602 HILLROM SYMBOLS AND DETAILS FAC101 LEVEL 1 FIRE ALARM PLAN

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...



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VAN BOERUM & FRANK
SPECTRUM
VAN BOERUM & FRANK
RUBY THORP
ROBERT GRIESCHE
Author
DESCRIPTION

11/6/20



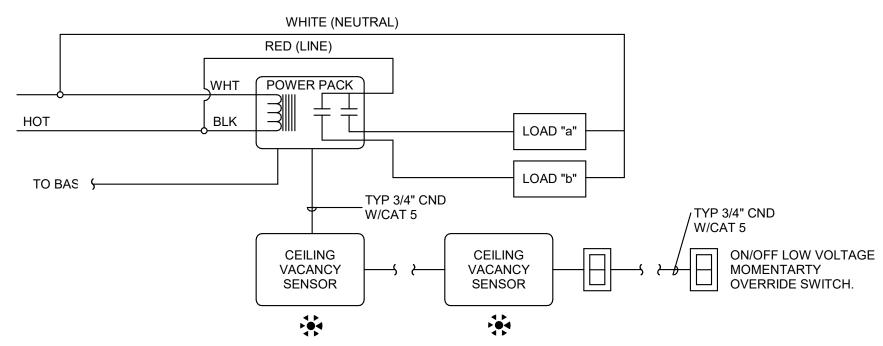
**Project Number** 

Original Issue

SHEET INDEX, ABBREVIATIONS, AND **GENERAL NOTES** 

EEC001

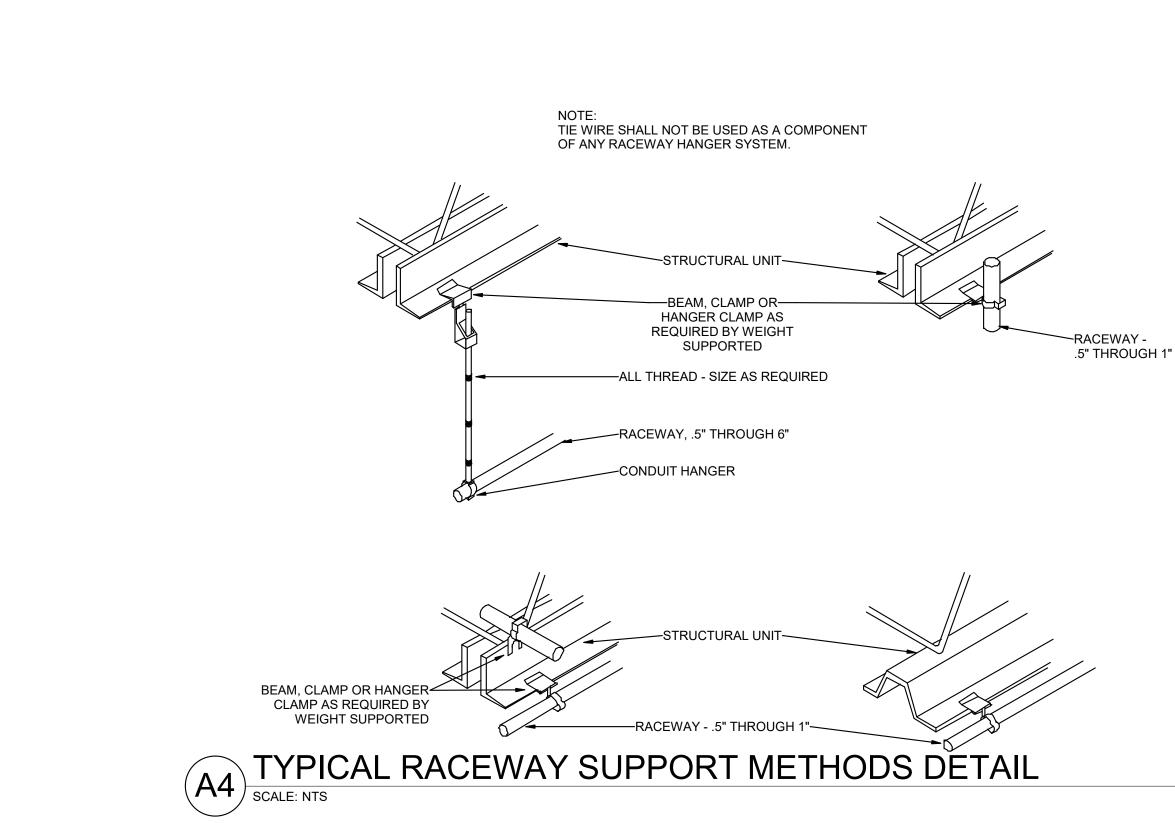
\*BASIS OF DESIGN IS NLIGHT OR WATTSTOPPER \*\*CONTRACTOR IS RESPONSIBLE TO PROVIDE FULLY FUNCTIONAL EQUIVALENT SYSTEMS TO WHAT IS INDICATED HERE. TYPICAL CEILING VACANCY SENSOR WIRING DIAGRAM SCALE: NTS

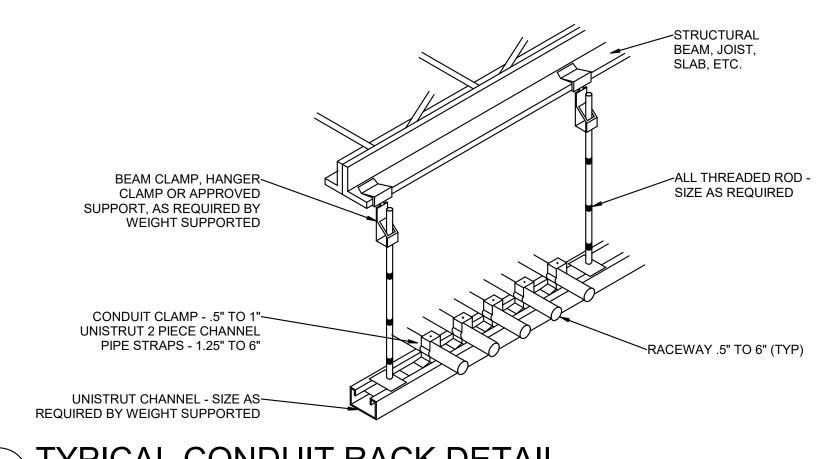


\*BASIS OF DESIGN IS NLIGHT \*\*CONTRACTOR IS RESPONSIBLE TO PROVIDE FULLY FUNCTIONAL EQUIVALENT SYSTEMS TO WHAT IS INDICATED HERE. TYPICAL MULTIPLE ZONE VACANCY

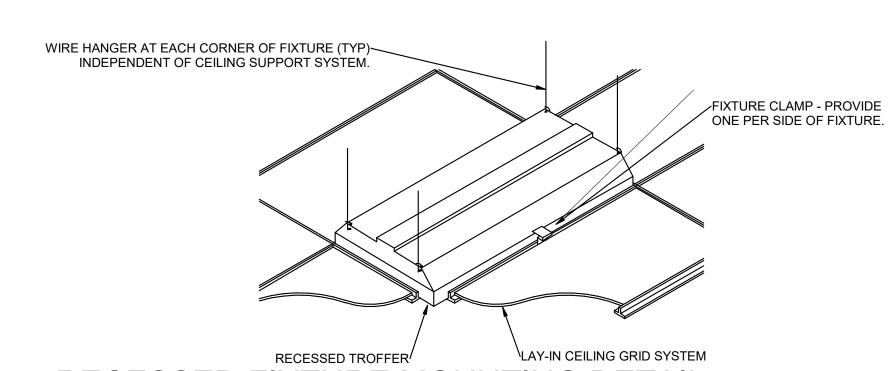
SENSOR WIRING DIAGRAM

SCALE: NTS



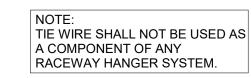


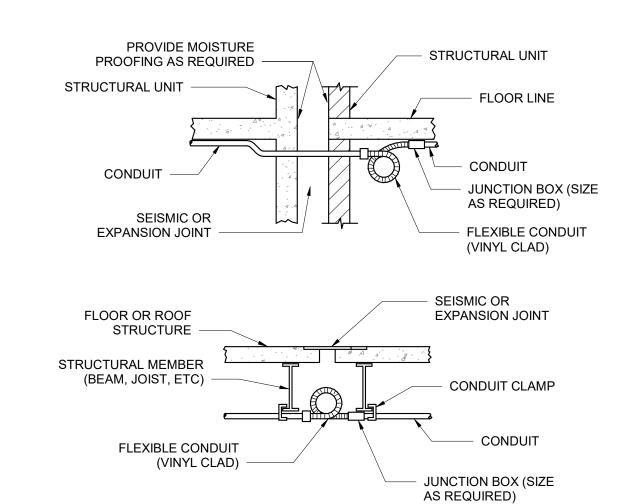
TYPICAL CONDUIT RACK DETAIL
SCALE: NTS



RECESSED FIXTURE MOUNTING DETAIL

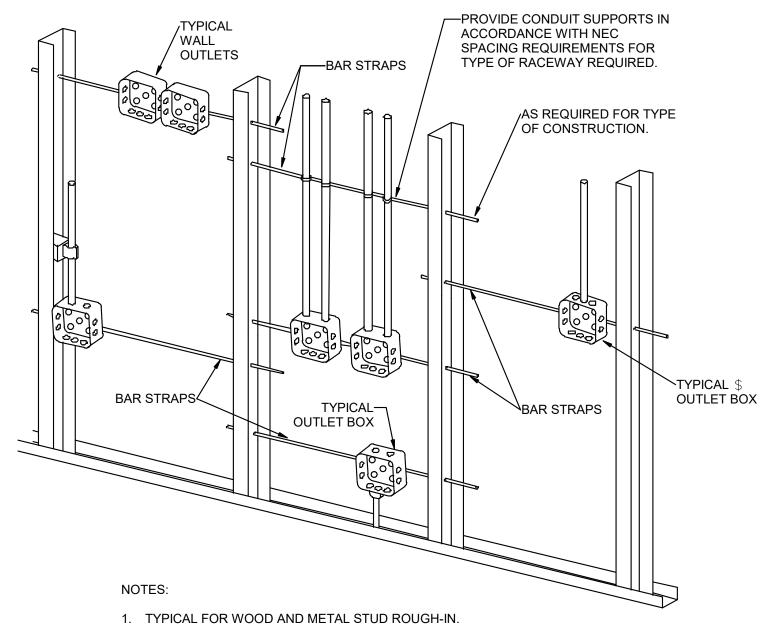
SCALE: NTS





B2 CONDUIT EXPANSION JOINT DETAIL

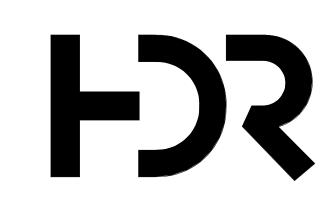
SCALE: NTS



- 2. PLASTER RINGS NOT SHOWN.
- 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
- 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES
- OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUN OF 24" HORIZONTAL DISTANCE.

TYPICAL ROUGH-IN REQUIREMENTS DETAIL

SCALE: NTS 5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.



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Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK

Interior Designer RUBY THORP **Equipment Planner** ROBERT GRIESCHE **Sheet Reviewer** 

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ELECTRICAL DETAILS

**EEC501** 

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CABINET

COUNTER TOP

LOWER CABINET

TYPICAL UNDERCABINET LIGHTING

FIXTURE MOUNTING DETAIL

SCALE: NTS

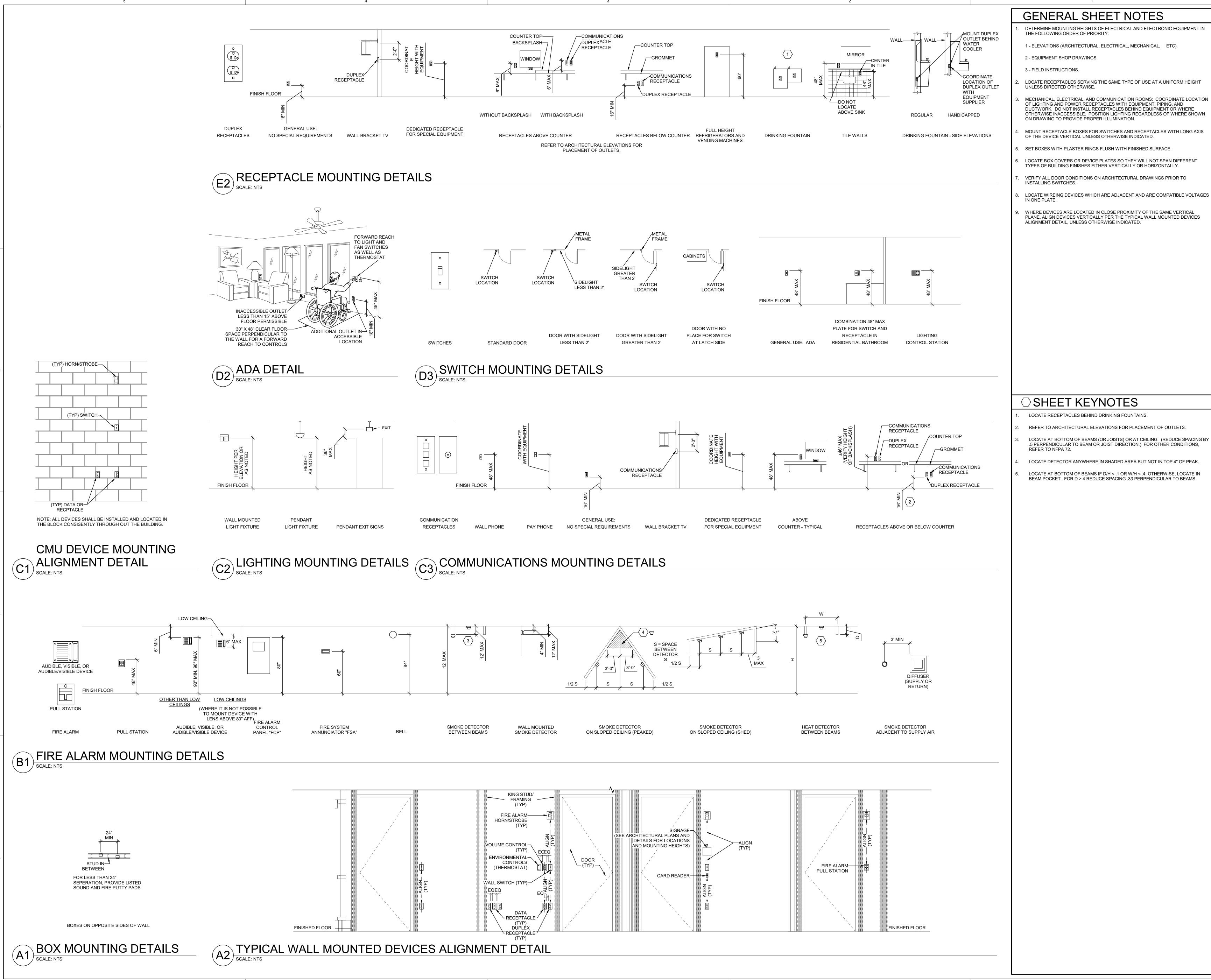
UNDERCABINET LIGHTING FIXTURE (REFER TO LIGHTING

FLUSH MOUNTING WITH EDGE

FIXTURE SCHEDULE)

MOUNT WITH LENS OF LIGHTING FIXTURE ORIENTED TOWARD CABINET DOOR SIDE.

OF CABINET



# **GENERAL SHEET NOTES**

DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:

- 1 ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).

  - 2 EQUIPMENT SHOP DRAWINGS.
- 3 FIELD INSTRUCTIONS.
- LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
- MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
- MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
- SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
- TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
- VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
- WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL

PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

**ARCHITECTS** NJRA Architects, Inc. 5272 S. College Drive, Suite104 Murray, Utah 84123 801.364.9259 www.njraarchitects.com

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Mechanical Engineer	VAN BOERUM & FR
Electrical Engineer	SPECTRUM
Dlumbing Engineer	VAN DOEDLIM 9 FE

Plumbing Engineer Interior Designer RUBY THORP ROBERT GRIESCHE

Author

**Equipment Planner** Sheet Reviewer

DESCRIPTION MARK DATE

11/6/20



TYPICAL MOUNTING HEIGHT DETAILS

**EEC701** 

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**Project Number** Original Issue

(1) LABEL TO BE PROVIDED AT EACH SWITCHBOARD, PANELBOARD, DISCONNECT/STARTER. LABEL IS TO BE 3" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.

THE BACK OF THE LABEL. (3) FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. REPLACE THE LETTER/NUMBER WITH THOSE FOUND ON THE ONE-LINE DIAGRAM.

(2) LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING

(4) SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF DEVICE. (5) THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. PROVIDE "FED FROM-" AND REPLACE MDP1 WITH THE DEVICES

₃—1LA1, 4 208/120V, #PH, #W, 22KAIC, ⑤─FED FROM-MDP1

NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY. SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST '#' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

# TYPICAL PANELBOARD/SWITCHBOARD LABEL SCALE: NTS

NAME THAT FEEDS THE PANELBOARD.

(1) LABEL TO BE PROVIDED THAT IS TO BE 4" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.

2 LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.

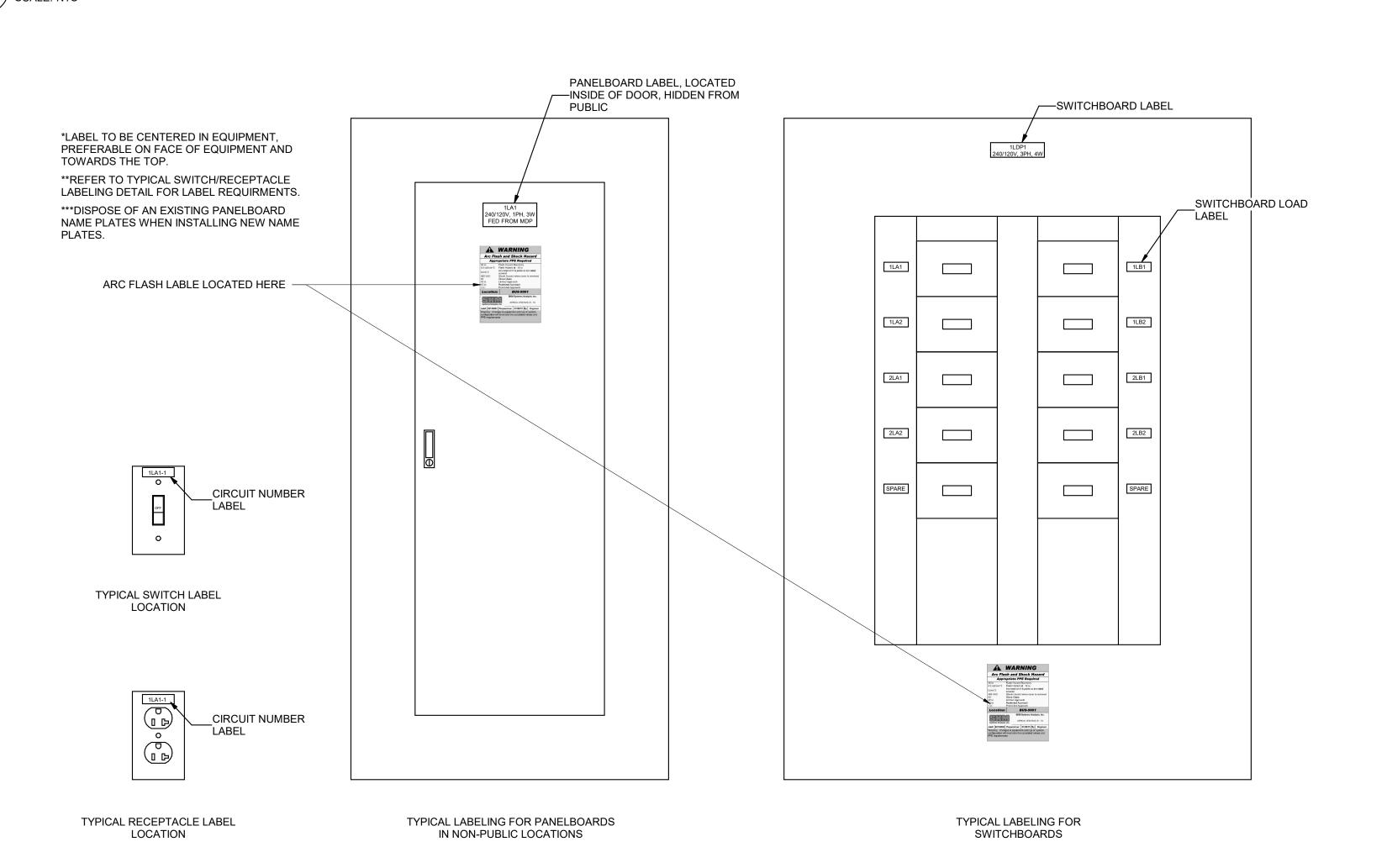
(3) FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, WITH THE EQUIPMENT

ID MATCHING PLANS. (4) SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE,

NUMBER OF WIRES, AND AIC RATING OF GEAR. (5) THIRD & FOURTH LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. LABEL WITH ACTUAL AVAILABLE FAULT CURRENT AND ASSOCIATED CLEARING TIME.

₃—MDP1, -480Y/277V, 3PH, 4W, 22KAIC, 5 AVAILABLE FAULT CURRENT - XX,XXX A MCB CLEARING TIME - X.XX SECONDS 1)/

# TYPICAL MAIN SERVICE EQUIPMENT/GEAR LABEL SCALE: NTS



TYPICAL SWITCH, RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL SCALE: NTS

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Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK

Interior Designer RUBY THORP **Equipment Planner** ROBERT GRIESCHE

Sheet Reviewer Author DESCRIPTION MARK DATE

Wayfinding

**Project Number** Original Issue



11/6/20

TYPICAL LABELING **DETAILS** 

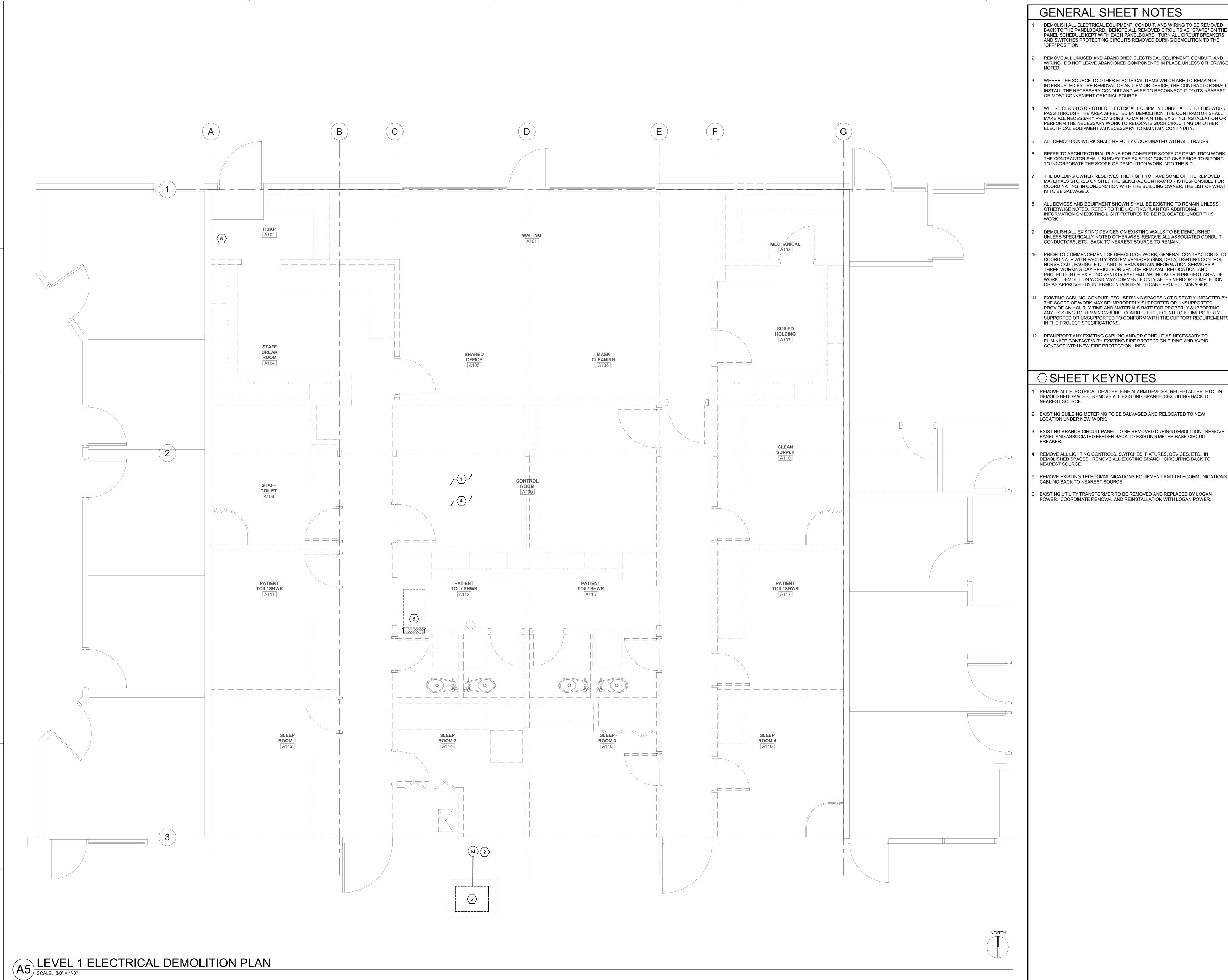
Sheet Number

**EEC702** 

100% Construction Documents

WARNING -SHADED AREAS TO BE ORANGE ALL OTHER TO BE WHITE BACKGROUND **Arc Flash and Shock Hazard** Appropriate PPE Required Flash Hazard Boundary 4.5 cal/cm^2 Flash Hazard at 18 in —(TYP) DISTANCES IN INCHES Arc-rated shirt & pants or arc-rated Level 2 Shock Hazard when cover is removed \_\_\_\_\_\_ COORDINATE VOLTAGE VALUES WITH ONE-LINE Glove Class Limited Approach Restricted Approach Prohibited Approach BUS-0001-Location: -MATCH NAME OF EQUIPMENT WITH NAMES ON ONE-LINE SKM Systems Analysis, Inc. XEROX LEWISVILLE, TX -—PROVIDE ADDRESS WHERE SKM ANALYIS IS PERFORMED Systems Analysis, Inc Job#: 20130591 Prepared on: 01/20/15 By: Engineer -PROVIDE JOB NUMBER "#######", DATE OF ANALYSIS AND ENGINEER WHO PERFORMED STUDY Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements \*PROVIDE ARC FLASH LABEL FOR ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS AND REQUIRED BY NEC

(A5) TYPICAL ARC FLASH LABEL
SCALE: NTS



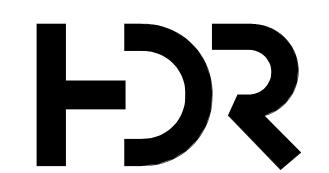
# GENERAL SHEET NOTES

DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING TO BE REMOVED BACK TO THE PANELBOARD. DENOTE ALL REMOVED CIRCUITS AS "SPARE" ON THE PANEL SCHEDULE KEPT WITH EACH PANELBOARD. TURN ALL CIRCUIT BREAKERS AND SWITCHES PROTECTING CIRCUITS REMOVED DURING DEMOLITION TO THE "OFF" POSITION.

- REMOVE ALL UNUSED AND ABANDONED ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING. DO NOT LEAVE ABANDONED COMPONENTS IN PLACE UNLESS OTHERWISE
- WHERE THE SOURCE TO OTHER ELECTRICAL ITEMS WHICH ARE TO REMAIN IS INTERRUPTED BY THE REMOVAL OF AN ITEM OR DEVICE, THE CONTRACTOR SHALL INSTALL THE NECESSARY CONDUIT AND WIRE TO RECONNECT IT TO ITS NEAREST
- OR MOST CONVENIENT ORIGINAL SOURCE. WHERE CIRCUITS OR OTHER ELECTRICAL EQUIPMENT UNRELATED TO THIS WORK PASS THROUGH THE AREA AFFECTED BY DEMOLITION, THE CONTRACTOR SHALL
- ALL DEMOLITION WORK SHALL BE FULLY COORDINATED WITH ALL TRADES.
- REFER TO ARCHITECTURAL PLANS FOR COMPLETE SCOPE OF DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS PRIOR TO BIDDING TO INCORPORATE THE SCOPE OF DEMOLITION WORK INTO THE BID.
- THE BUILDING OWNER RESERVES THE RIGHT TO HAVE SOME OF THE REMOVED MATERIALS STORED ON SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING, IN CONJUNCTION WITH THE BUILDING OWNER, THE LIST OF WHAT IS TO BE SALVAGED.
- ALL DEVICES AND EQUIPMENT SHOWN SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. REFER TO THE LIGHTING PLAN FOR ADDITIONAL INFORMATION ON EXISTING LIGHT FIXTURES TO BE RELOCATED UNDER THIS
- DEMOLISH ALL EXISTING DEVICES ON EXISTING WALLS TO BE DEMOLISHED UNLESS SPECIFICALLY NOTED OTHERWISE. REMOVE ALL ASSOCIATED CONDUIT, CONDUCTORS, ETC., BACK TO NEAREST SOURCE TO REMAIN.
- PRIOR TO COMMENCEMENT OF DEMOLITION WORK, GENERAL CONTRACTOR IS TO COORDINATE WITH FACILITY SYSTEM VENDORS (BMS, DATA, LIGHTING CONTROL, NURSE CALL, PAGING, ETC.) AND INTERMOUNTAIN INFORMATION SERVICES A THREE WORKING DAY PERIOD FOR VENDOR REMOVAL, RELOCATION, AND PROTECTION OF EXISTING VENDOR SYSTEM CABLING WITHIN PROJECT AREA OF WORK. DEMOLITION WORK MAY COMMENCE ONLY AFTER VENDOR COMPLETION OR AS APPROVED BY INTERMOUNTAIN HEALTH CARE PROJECT MANAGER.
- EXISTING CABLING, CONDUIT, ETC., SERVING SPACES NOT DIRECTLY IMPACTED BY THE SCOPE OF WORK MAY BE IMPROPERLY SUPPORTED OR UNSUPPORTED. PROVIDE AN HOURLY TIME AND MATERIALS RATE FOR PROPERLY SUPPORTING ANY EXISTING TO REMAIN CABLING, CONDUIT, ETC., FOUND TO BE IMPROPERLY SUPPORTED OR UNSUPPORTED TO CONFORM WITH THE SUPPORT REQUIREMENTS IN THE PROJECT SPECIFICATIONS.
- RESUPPORT ANY EXISTING CABLING AND/OR CONDUIT AS NECESSARY TO ELIMINATE CONTACT WITH EXISTING FIRE PROTECTION PIPING AND AVOID CONTACT WITH NEW FIRE PROTECTION LINES.

# ☐ SHEET KEYNOTES

- REMOVE ALL ELECTRICAL DEVICES, FIRE ALARM DEVICES, RECEPTACLES, ETC., IN DEMOLISHED SPACES. REMOVE ALL EXISTING BRANCH CIRCUITING BACK TO NEAREST SOURCE.
- EXISTING BUILDING METERING TO BE SALVAGED AND RELOCATED TO NEW LOCATION UNDER NEW WORK.
- EXISTING BRANCH CIRCUIT PANEL TO BE REMOVED DURING DEMOLITION. REMOVE PANEL AND ASSOCIATED FEEDER BACK TO EXISTING METER BASE CIRCUIT
- REMOVE ALL LIGHTING CONTROLS, SWITCHES, FIXTURES, DEVICES, ETC., IN DEMOLISHED SPACES. REMOVE ALL EXISTING BRANCH CIRCUITING BACK TO
- REMOVE EXISTING TELECOMMUNICATIONS EQUIPMENT AND TELECOMMUNICATIONS CABLING BACK TO NEAREST SOURCE.
- EXISTING UTILITY TRANSFORMER TO BE REMOVED AND REPLACED BY LOGAN POWER. COORDINATE REMOVAL AND REINSTALLATION WITH LOGAN POWER.



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**Project Manager** TERRI SUDBROOK **Project Designer** ERIC MEUB Project Architect Landscape Architect Civil Engineer Structural Engineer **Mechanical Engineer Electrical Engineer** Plumbing Engineer

**VAN BOERUM & FRANI VAN BOERUM & FRANK** Interior Designer RUBY THORP **Equipment Planner** ROBERT GRIESCHE

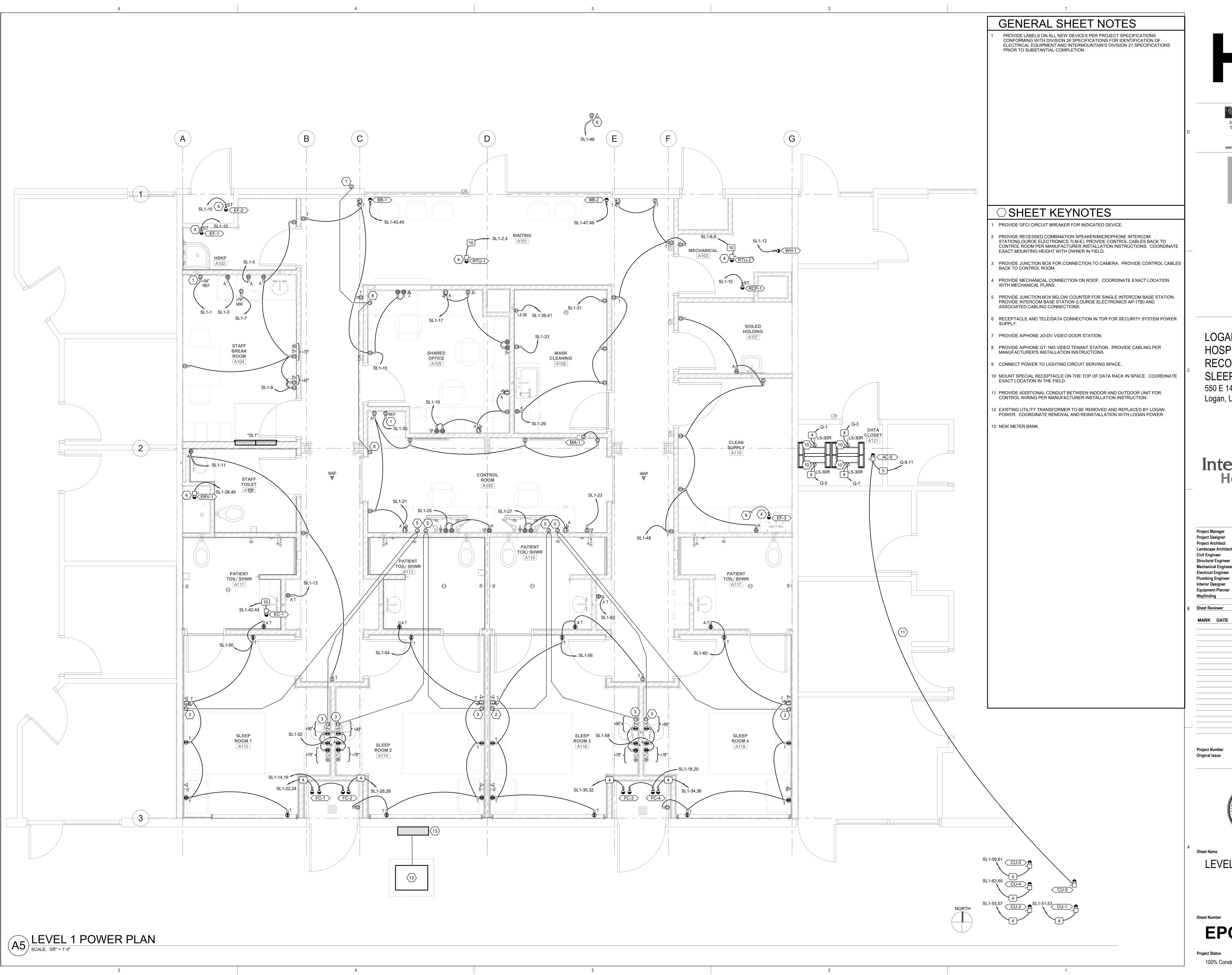
**Sheet Reviewer** 

MARK DATE DESCRIPTION



LEVEL 1 ELECTRICAL **DEMOLITION PLAN** 

**EDC101** 





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TERRI SUDBROOK Structural Engineer Mechanical Engineer **Electrical Engineer** Plumbing Engineer

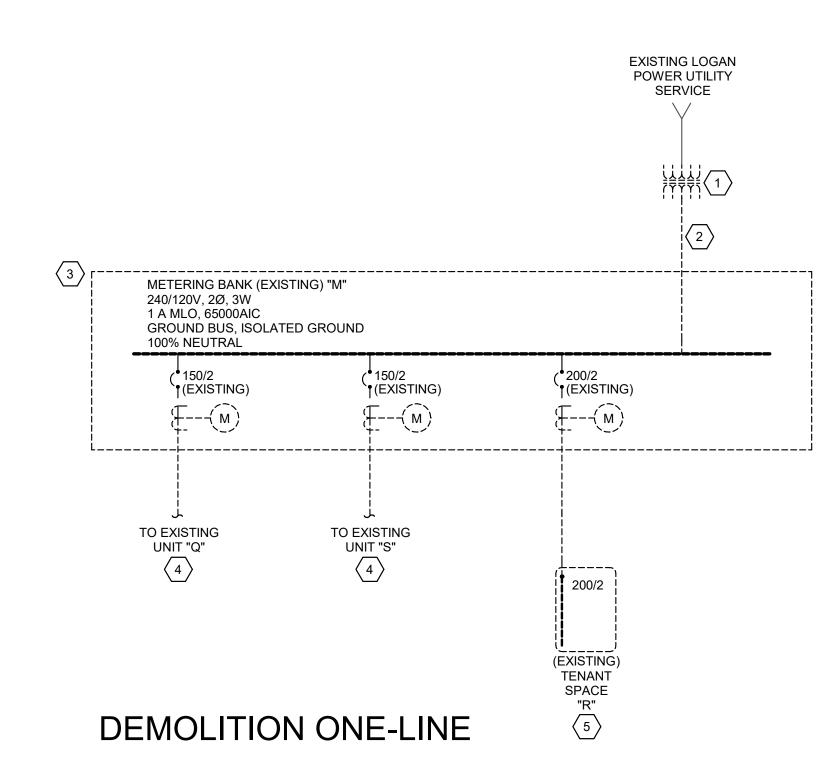
RUBY THORP ROBERT GRIESCHE

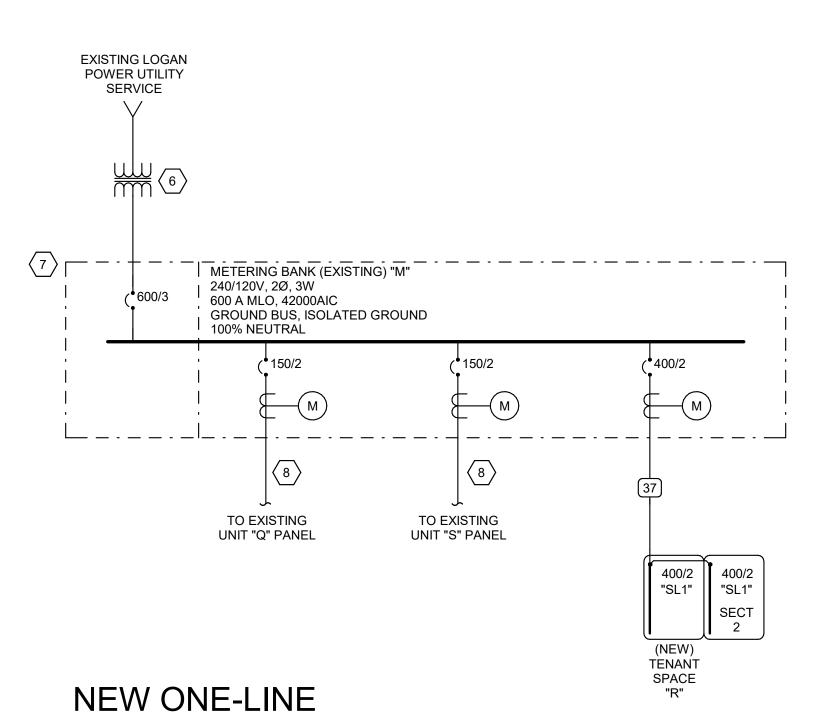
DESCRIPTION



LEVEL 1 POWER PLAN

EPC101





FAULT CUR	RENT TABLE
BUS	FAULT CURRENT
L1	22000
MDPA	0

PROVIDE FULLY RATED CIRCUIT BREAKERS IN PANELBOARDS FOR THE FAULT CURRENT SHOWN. SERIES RATINGS WITH NEXT LEVEL UPSTREAM OVERCURRENT PROTECTIVE DEVICES ARE PERMITTED SUBJECT TO FACTORY UL DOCUMENTATION OF SERIES RATING SUBMITTED TO ENGINEER. IF DEVICE OR EQUIPMENT FAULT CURRENT RATING IS NOT SHOWN, ASSUME 100,000 AIC.

EQUIPMENT ID SCHEME	SECOND DIGIT - PANEL TYPE  M - MECHANICAL  H - (277/480)  L - (120/208)  E - EMERGENCY  S - STANDBY  Q - EQUIPMENT  U - UPS  K - KITCHEN (120/208)  THIRD DIGIT - BUILDING AREA (A, B, C, ETC)  FOURTH DIGIT - SEQUENCE # (1,2,3,)								
LABEL FORMAT	[NAME] [SYSTEM] [VOLTAGE [FED FROM [SOURSE(S	]							
LABEL EXAMPLE	PANEL "4LA1" STANDBY POWER 120/208V FED FROM BUS-A / XFMR 4TA								
BUSWAY	LABEL BUSWAY EVERY 6' WHERE EXPOSED TO VIEW AND EVERY 15' WHERE NOT EXPOSED TO VIEW								
OTHER									
(	COLOR SCHEM	E							
		NAMEPL	ATE COLOR						
SYSTEM	EQUIPMENT	TEXT	BACKGROUND						
NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BLACK						
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEA EXCEPT UPS GEAR AS NOTED	R, WHITE	ORANGE						
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL DOWNSTREAM GEAR	WHITE	RED						
LEGALLY-REQUIRED STANDBY POWER	ATS-S AND ALL DOWNSTREAM GEAR	RED	WHITE						
UPS "A" POWER	UPSA AND ALL DOWNSTREAM WHITE BLUE								

UPSB AND ALL DOWNSTREAM

**EQUIPMENT NAMEPLATE** 

SCHEDULE

# BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE

CIRCUIT	CONDUCTOR SIZE	
LENGIH	(PHASE, NEUTRAL AND GR)	CONDUIT SIZI
0' - 60'	#12 AWG	0.75" Ø
60' - 95'	#10 AWG	0.75" Ø
95' - 150'	#8 AWG	1" Ø
150' - 240'	#6 AWG	1.25" Ø
0' - 140'	#12 AWG	0.75" Ø
140' - 220'	#10 AWG	0.75" Ø
220' - 350'	#8 AWG	1" Ø
350' - 550'	#6 AWG	1.25" Ø
	UENGTH  0' - 60'  60' - 95'  95' - 150'  150' - 240'  0' - 140'  140' - 220'  220' - 350'	LENGTH         (PHASE, NEUTRAL AND GR)           0' - 60'         #12 AWG           60' - 95'         #10 AWG           95' - 150'         #8 AWG           150' - 240'         #6 AWG           0' - 140'         #12 AWG           140' - 220'         #10 AWG           220' - 350'         #8 AWG

- 1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
- 2. DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
- 3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

# COPPER CONDUCTOR AND CONDITIT SCHEDLILE

			ONE		<u>.                                     </u>	<u> </u>		<u> </u>	
**)	_					(E.G	5.)[5]		
·		SUBSC	CRIPT (NOT	TE 5)			—IG		
0)/1/4	445	HH	CONDUIT		JCTOR (I		10/111	05	NOTE
SYM (1)	AMP 20	AMPS	SIZE .75	QTY 2	SIZE 12	G 12	IG/HH 12	SE 8	NOTE 2
2	20	-	.75	3	12	12	12	8	2,3
3	20	24	.75	4	12	12	12	8	2,3
(4)	30		.75	2	10	10	10	8	2
5	30	_	.75	3	10	10	10	8	2
6	30	32	.75	4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
8	40	-	1	3	8	10	8	6	2
9	40	44	1	4	8	10	8	6	2
10	55	-	1	2	6	10	8	4	2
11	55	-	1	3	6	10	8	4	2
12	55	60	1.25	4	6	10	8	4	2
13	70	-	1	2	4	8	4	2	2
14	70	-	1.25	3	4	8	4	2	2
15	70	76	1.25	4	4	8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85	-	1.25	3	3	8	3	2	2
18	85	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1	6	2	2	2
23	150	-	2	3	1/0	6	2	1/0	2
24	150	136	2	4	1/0	6	2	1/0	2
25	175	-	2	3	2/0	6	2	2/0	2
26	175	156	2	4	2/0	6	2	2/0	2
27)	200	-	2	3	3/0	6	2	2/0	2
28	200	180	2.50	4	3/0	6	2	2/0	2
29	230	-	2.50	3	4/0	4	2	2/0	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	-	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
33	310	-	3	3	350	3	1/0	3/0	2
34	310	280	3	4	350	3	1/0	3/0	2
35	380	-	3.50	3	500	3	3/0	3/0	2
36	380	344	4	4	500	3	3/0	3/0	2
37)	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	360	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	-	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	464	2 EA 3	4	250	1	4/0	3/0	2
4	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	-	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	688	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	-	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	-	3 EA 4	3	500	3/0	4/0	3/0	4
<u>50</u>	1140	1032	3 EA 4	4	500	3/0	4/0	3/0	4
<u>51</u>	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
<u>52</u>	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
<u>53</u>	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4
54	2010	1824	6 EA 4	4	400	250	250	250	4
<u>55</u>	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
<u>57</u>	4180	3784	11 EA 4	4	500	500	500	500	4
58	-	-	5 EA 4	-	-	-	-	-	6
59	-	-	5	-	-	-	-	-	6
60	-	-	10 EA 4	-	-	-	-	-	6

- CONDUIT AND CONDUCTOR SCHEDULE NOTES CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN
- PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE
- CONDUCTORS. SYMBOL SUBSCRIPTS:
  - "2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #1/0 OR LARGER. INCLUDE A SINGLE 200% RATED CONDUCTOR THAT IS TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL CONDUCTOR WHERE THE CONDCUTOR IS BELOW #1/0
  - "FG" FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.
  - "HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
  - "IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
- "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN. WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM. 6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

# GENERAL SHEET NOTES

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
- PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 230.95(C).

## ⇒ SHEET KEYNOTES

- EXISTING UTILITY TRANSFORMER TO BE REMOVED AND REPLACED BY LOGAN POWER. COORDINATE REMOVAL AND REINSTALLATION WITH LOGAN POWER.
- REMOVE EXISTING UTILITY SECONDARY FEEDERS IN COORDINATION WITH LOGAN
- EXISTING RECESSED METERING BANK TO BE REMOVED.
- REMOVE EXISTING CONDUIT AND CONDUCTORS TO EXISTING TENANT PANELBOARD. MAINTAIN EXISTING PANELBOARD DURING DEMOLITION.
- REMOVE EXISTING CONDUIT AND CONDUCTORS TO EXISTING TENANT PANELBOARD. REMOVE EXISTING TENANT PANELBOARD.
- COORDINATE INSTALLATION OF NEW 240/120 VOLT SECONDARY UTILITY TRANSFORMER WITH LOGAN POWER.
- PROVIDE NEW FREESTANDING METER BANK WITH MAIN BREAKER AND NEMA 3R ENCLOSURE.
- PROVIDE NEW FEEDER TO EXISTING TENANT PANELBOARD MAINTAINED DURING DEMOLITION AND RECONNECT.



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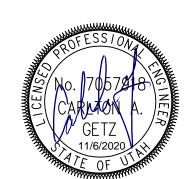
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DESCRIPTION MARK DATE

**Project Number** Original Issue



11/6/20

ONE-LINE DIAGRAM -NORMAL

**EPC601** 

			EQUIPMENT S		LIGHTING FIXTURE SCHEDULE
MARK Q	TY ITEM DESCRIPTION	LOAD DATA WIRE AND CONDUIT SIZE	OVERCURRENT DISCONNECT PROTECTION	STARTER DATA	NOTES MARK NOTE TO BIDDERS: COMPLY WITH THE SPECIFICATIONS.  REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED
		HP kW MCA FLA VOLT PH Hz	FURN DEVICE LOCATION FURN DEVICE LOCATION	TION FURN DEVICE LOCATION SIZE SPEED CTRL SELECTOR PUSH PILOT NORMALLY NORMALLY PHASE S	CHEMATIC REMOTE BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING,
			BY BY	BY VOLT SWITCH BUTTON LAMP OPEN CLOSED FAILURE F	EFERENCE CTRL EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL  NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING
AC-5/CU-5	1 SPLIT AIR CONDITIONING	3.53 18.0 15.5 208 1 60 CC #1	E 20A PANEL E TOGGLE ADJ. TO	TO CONTACTS CONTACTS RELAY	AC-5/CU-5 KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED
			C/B SWITCH UNIT		FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE
ATC	1 ATC PANEL	120 1 60 CC #1	E 20A PANEL C/B		ATC REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES  FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE
BB-1	1 ELECTRIC BASEBORD HEATER	1.89 9.1 208 1 60 CC #1	E 20A PANEL E TOGGLE ADJ. TO	TO TO	BB-1 PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE
			C/B SWITCH UNIT	т	CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL
BB-2	1 ELECTRIC BASEBORD HEATER	1.89   9.1   208   1   60   CC #1	E 20A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		BB-2 PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED  AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE
CU-1	1 VRF CONDENSING UNIT	16.5 14.9 208 1 60 CC #4	E 25A PANEL E TOGGLE ADJ. TO	'	CU-1 INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED,
			C/B SWITCH UNIT		CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID.
CU-2	1 VRF CONDENSING UNIT	16.5   14.9   208   1   60   CC #4	E 25A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		CU-2 ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277)  BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.
CU-3	1 VRF CONDENSING UNIT	16.5 14.9 208 1 60 CC #4	E 25A PANEL E TOGGLE ADJ. TO		CU-3 FIXTURE CHARACTERISTICS
			C/B SWITCH UNIT	т	BODY / AIR / MOUNTING / DOOR
CU-4	1 VRF CONDENSING UNIT	16.5   14.9   208   1   60   CC #4	E 25A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		CU-4 SYMBOL MARK LENS/LOUVER/REFLECTOR/OTHER LAMP WATTS VOLTS MANUFACTURER  D RECESSED LED: SOLID STATE LED LIGHT ENGINE: CLASS P THERMALLY PROTECTED 0-10V SOLID STATE DIMMING DRIVER: MINUMUM
EC-1	1 ELECTRIC COIL	7.5 36.1 208 1 60 CC #10	E 40A PANEL Q 60A ADJ. TO		EC-1 SYSTEM RATED LIFE 50,000 HOURS AT 70% OUTPUT; UL LISTED FOR THROUGH-BRANCH WIRING AND DAMP LOCATION; LIGHT ENGINE,
			C/B D/S UNIT		DRIVER, AND JUNCTION BOX ACCESSIBLE FROM ABOVE OR BELOW CEILING; SELF-FLANGING TRIM.
EF-1 1	1 EXHAUST FAN	1/6     4.4   120   1   60   CC #1	E 15A PANEL Q TOGGLE ADJ. TO SWITCH UNIT		EF-1 D-89 6" APERTURE: COMFORT CLEAR LED 30W 277V LIGHTOLIER C6L1520DL-40K-M-CCL-W / CW-C6L15-N-2 DIFFUSER; 4000 K COLOR TEMP LED; PRESCOLITE
EF-2	1 EXHAUST FAN	1/4 5.8 120 1 60 CC #1	E 15A PANEL Q TOGGLE ADJ. TO		EF-2 ~1500 LUMENS; 30 INPUT WATTS; GOTHAM
			C/B SWITCH UNIT		277V; 0-10V SOLID STATE DIMMING PORTFOLIO
EF-3	1 CEILING-STAFF TOILET A108	0.012   120   1   60   CC #1	E 20A PANEL E TOGGLE ADJ. TO SWITCH UNIT		EF-3 DRIVER; LENS; WHITE FLANGE.
ERV-1	1 ENERGY RECOVERY VENTILATOR	8.9 208 1 60 CC #1	E 15A PANEL Q 30A ADJ. TO		ERV-1 ED-89 6" APERTURE: COMFORT CLEAR LED 30W 277V LIGHTOLIER C6L1520DL-40K-M-CCL-W-EM / CW-C6L15-N-2-EM
			C/B D/S UNIT		DIFFUSER; 4000 K COLOR TEMP LED; PRESCOLITE
FC-1 /	1 VRF FAN COIL UNIT HEATER	5   25.0   24   208   1   60   CC #4	E 25A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		FC-1 ~1500 LUMENS; 30 INPUT WATTS; GOTHAM 277V; 0-10V SOLID STATE DIMMING PORTFOLIO
FC-2	1 VRF FAN COIL UNIT	5 25.0 24 208 1 60 CC #4	E 25A PANEL E TOGGLE ADJ. TO		FC-2 DRIVER; LENS; WHITE FLANGE;
	HEATER		C/B SWITCH UNIT	·	BATTERY PACK.
FC-3	1 VRF FAN COIL UNIT HEATER	5   25.0   24   208   1   60   CC #4	E 25A PANEL E TOGGLE ADJ. TO SWITCH UNIT		FC-3 E10 EXIT SIGN: METAL HOUSING; CEILING MOUNT, SEE DRAWINGS; ARROWS PER PLANS; LED LAMPS; BATTERIES; EDGE LIGHTED CLEAR
FC-4	1 VRF FAN COIL UNIT	5 25.0 24 208 1 60 CC #4	E 25A PANEL E TOGGLE ADJ. TO		FC-4 LENS; GREEN LETTERS ON CLEAR BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS. UNITS SHOWN ARE CEILING
	HEATER		C/B SWITCH UNIT		MOUNT MODELS. CONTRACTOR TO PROVIDE MATCHING LOW LEVEL WALL MOUNTED UNITS WHERE REQUIRED.
FC-1	1 VRF FAN COIL UNIT	1.02   4.9   208   1   60   CC #1	E 15A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		FC-1 E10-1 SINGLE FACE: LED 20W 120/277V DUAL-LITE LESCGWA MCPHILBEN 45VL-1-GC-XX
FC-2	1 VRF FAN COIL UNIT	1.02 4.9 208 1 60 CC #1	E 15A PANEL E TOGGLE ADJ. TO		FC-2 EELP EDG 1 GC W EM
			C/B SWITCH UNIT	·	LITHONIA LRP W 1 GC XX 120/277
FC-3	1 VRF FAN COIL UNIT	1.02   4.9   208   1   60   CC #1	E 15A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		FC-3 ISOLITE EUN-AC-G-1C EVENLITE SOV-AC-G-1C-WH-XX-XX
FC-4	1 VRF FAN COIL UNIT	1.02 4.9 208 1 60 CC #1	E 15A PANEL E TOGGLE ADJ. TO	·	FC-4 CHLORIDE STDLX-X-1-GC-X
			C/B SWITCH UNIT		LIGHTOLIER LEAC1GCX
HR-1	1 VRF HEAT RECOVERY BOX	0.06   208   1   60   CC #1	E 15A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		HR-1 G DECORATIVE LENSED TROFFERS: RECESSED FOR GYP; ACRYLIC PRISMATIC LENS; EARTHQUAKE CLIPS, LED DRIVER 0-10 VOLT DIMMING DRIVER WHERE INDICATED IN PRODUCT NUMBER.
MA-1	1 MEDICAL GAS ALARM PANEL	120 1 60 CC #1	E 20A PANEL Q		MA-1 G-2 RECESSED LED FIXTURE, 2X4, ACRYLIC LED 40W UNV LITHONIA 2VTL4-48L-ADP-EZ1-LP840-DGA24 FS/VT
			C/B		DIFFUSER, ~4800 LUMENS, MULTI
RCP-1	1 DOMESTIC CIRC PUMP	0.052 120 1 60 CC #1	E 15A PANEL E TOGGLE ADJ. TO C/B SWITCH UNIT		RCP-1 VOLT, 4000K, GYP MOUNTED, MINIMUM 82 CRI
RTU-1	1 PACKAGED ROOFTOP UNIT	30.9 27.8 240 1 60 CC #10	E 45A PANEL E 60A ADJ. TO	.	RTU-1
DTU 0	A PAGYAGED DOCETOR ::::T		C/B D/S UNIT		G-3 RECESSED LED FIXTURE, 1X4, ACRYLIC LED 45W UNV LITHONIA VTL4-48L-ADP-EZ1-LP840-DGA14
RTU-2	1 PACKAGED ROOFTOP UNIT	30.9   27.8   240   1   60   CC #10	E		RTU-2 DIFFUSER, ~4800 LUMENS, MULTI VOLT, 4000K, GYP MOUNTED,
WH-1	1 DOMESTIC WATER HEATER	4.2 120 1 60 CC #1	E 15A PANEL Q TOGGLE ADJ. TO		WH-1 DIMMING, MINIMUM 82 CRI
			C/B SWITCH UNIT	<del>T                                     </del>	
					NF NARROW APPERTURE LED FIXTURES: RECESSED LINEAR FIXTURE; STATIC; EARTHQUAKE CLIPS INSTALLED IN GYP FIXTURES; OPAQUE ACRY

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								C	кт	OC	P	LOAI	D (kVA)				PHASE	LOA	D			LOAD	(kVA)	00
								<u> </u>	NO I	AMP	POLE	LTG	PWR C	οТ	DESCRIPTION		A	E	3	DESCRIPTION	СО	PWR	LTG	POLE
									1	20	1	0.0	0.7 0.0	-	REF STAFF BREAK ROOM A104	0.7	3.2			RTU-1	0.0	6.4	_	2
									3	20	1	0.0	1.3 0.0		ICE STAFF BREAK ROOM A104			1.3	3.2	<del></del>				
									5	20	1	0.0	1.4 0.0		COFFEE STAFF BREAK RM A104	1.4	3.2			RTU-2	0.0	6.4	0.0	2
									7	20	1	0.0	1.0 0.0		MW STAFF BREAK ROOM A104			1.0	3.2					
									9	20	1	0.0	0.0 1.	_	CO STAFF BREAK ROOM A104	1.1	1.0			EF-1, EF-2, RCP-1	0.0	1.0	0.0	1
									11	20	1	0.0	0.0 0.		CO STAFF TOILET A108			0.5	0.5	WH-1	0.0	0.5	0.0	1
									13	20	1	0.0	1.4 0.0		COFFEE MACHINE	1 4	1.0	0.0	0.0	FC-1, FC-2	0.0	2.0	0.0	2
								<u> </u>	15	20	1	0.0	0.0 1.4	-	CO SHARED OFFICE A105	1	1.0	1.4	1.0					
								<u> </u>	17	20	1	0.0	0.0 1.	-+	CO SHARED OFFICE A105	1 1	1.0	1	1.0	FC-3, FC-4	0.0	2.0	0.0	2
									19	20	1	0.0	0.0 1.3	_	CO SHARED OFFICE A105		1.0	1.3	1.0					
									21	20	1	0.0	0.0 1.	_	CO CONTROL ROOM A109	11	2.5	1.0	1.0	FC-1 SUP HEAT	0.0	5.0	0.0	2
								<u> </u>	23	20	1	0.0	1.5 0.0		POWER CONTROL ROOM A109			1.5	2.5					
	116	<u> </u>	EVICTINO					_	25	20	1	0.0	0.0 1.	_	CO CONTROL ROOM A109	1.1	2.5			FC-2 SUP HEAT	0.0	5.0	0.0	2
_ :	(	<b>2</b>	<b>EXISTING</b> )						27	20	1	0.0	0.0 0.9	_	CO CONTROL ROOM A109			0.9	2.5					
		TION:		NC	TES:			┥ ⊢	29	20	1	0.0	0.0 1.4	_	CO CLEANING/ STORAGE A106	1 4	2.5	0.0	2.0	FC-3 SUP HEAT	0.0	5.0	0.0	2
				INC	TES.			<u> </u>	31	20	1	0.0	1.2 0.0		MASK CLEANING/ STORAGE A106	1	2.0	12	2.5					
	EXIS	ING T	ENANT UNIT Q SURFACE						33	20	1	0.0	1.2 0.0		MASK CLEANING/ STORAGE A106	1 2	2.5	1.2	2.0	FC-4 SUP HEAT	0.0	5.0	0.0	2
				AIC RATING: (E)	XISTING	3)			35	20	1	0.0	1.7 0.0		REF	1.2	2.0	1.7	2.5	10-4001 HEAT				
ASE	LOA	)		LOAD (kV	A)	OCP	СКТ	.   ⊨	37	20	1	0.0	0.3 0.0		ILLUMINATED SIGNAGE	U 3	0.9	1.7	2.0	ERV-1	0.0	1.9	0.0	2
	В	;	DESCRIPTION	CO PWR LT	G POL	E A		┪	39	30	2	0.0	2.7 0.0		MASK CLEANING	0.5	0.9	1.3	0.0			1.9		
.0			(EXISTING)		1		0 2	I —	41						WASK CLEANING	1 3	3.8	1.3	0.9	EC-1	0.0	7.5	0.0	2
	1.2	0.0	(EXISTING)		- 1		20 4	T	43	20	2	0.0	1.9 0.0		BB-1	1.5	3.0	0.9	3.8			7.5		
.0			(EXISTING)		- 1		0 6		45			0.0				0.0	0.2	0.5	5.0	TDR CO	0.2	0.0	0.0	
	1.2	0.0	(EXISTING)		- 1		20 8	I ⊢					1.0		 BB-2	0.9	0.2	0.0	1 2	CO CLEAN SUPPLY A110				1
.0			(EXISTING)		- 1		20 10	I —	47	20	2	0.0	1.9 0.0			0.0	1.3	0.9	1.3	CO SLEEP ROOM 1 A112	1.3	0.0	0.0	1
	1.8	0.0	(EXISTING)		- 1		20 12	_	49	 2F						0.9	1.3	1.6	1 1	CO SLEEP ROOM 1 & 2 A112/114	1.3	0.0	0.0	1
0.0		0.0	(EXISTING)		- 1		20 14		51	25	2	0.0	3.1 0.0	_	CU-1	4.0	4.4	1.6	1.4		1.4	0.0	0.0	<u> </u>
	0.0	0.0	(EXISTING)		. 1		20 16		53							1.6	1.4	4.0	4.4	CO SLEEP ROOM 2 A114	1.4	0.0	0.0	$\frac{1}{4}$
0.0	0.0	0.0	(EXISTING)		. 1		20 18		55	25	2	0.0	3.1 0.0	_	CU-2	4.0	4.4	1.6	1.4	CO SLEEP ROOM 3 A116	1.4	0.0	0.0	1
	0.0	0.0	(EXISTING)	<del>  _   _   _   _   _   _   _   _   _   _</del>	1		20 20		57							1.6	1.4	4.0	4.4	CO SLEEP ROOM 3 & 4 A116/118	1.4	0.0	0.0	$\frac{1}{4}$
.0	0.0	0.0	(EXISTING)		. 1		20 22	I —	59	25	2	0.0	3.1 0.0	_	CU-3			1.6	1.4	CO SLEEP ROOM 4 A118	1.4	0.0	0.0	1
	0.0	0.0	(EXISTING)		. 1		20 24		61							1.6	1.4	4.0	0.0	COFFEE MAKER	0.0	1.4	0.0	1
0.0	0.0	0.0	(EXISTING)		· ·		20 26		63	25	2	0.0	3.1 0.0	_	CU-4			1.6	0.0	SPARE		-		1
	0.0	0.0	(EXISTING)		. 1		20 28	<u> </u>	65					-		1.6	0.0		0.0	SPARE		-		1
.0	0.0	0.0	(EXISTING)		. 1		20 30		67	20	1			-	SPARE			0.0	0.0	SPARE		-		1
	0.0	0.0	(EXISTING)		. 1		20 32	I —	69	20	1			_	SPARE	0.0	0.0	0.0	0.0	SPARE		-		1
.0	0.0	0.0	(EXISTING)		. 1		20 34		71	20	1				SPARE	0.0	0.0	0.0	0.0	SPARE				1
	0.0	0.0	(EXISTING)		. 1		20 36		73	20	1				SPARE	0.0	0.0		0.0	SPARE		-		1
.0	0.0	0.0	(EXISTING)		1		20 38	I ⊢	75	20	1			•	SPARE			0.0	0.0	SPARE		-		1
	0.0	0.0	(EXISTING)		1		20 40		77	20	1			•	SPARE	0.0	0.0			SPARE				1
0.0	0.0	0.0	(EXISTING)		1		0 42	I —	79	20	1			•	SPARE			0.0	0.0	SPARE				1
.0					<u> </u>		.0 42	<b>1</b> ⊢	81	20	1			-	SPARE	0.0	0.0			SPARE		-		1
	4	_						<u> </u>	83	20	1			•	SPARE			0.0	0.0	SPARE				1
	3		AVERAGE CONNECTED A	MPS PER PHASE	= 35			-   ™	OTAL	_S:					CONNECTED kVA PER PHASE	,	50	4	9	CONNE	CTED T	OTAL	kVA =	99
								┥							CONNECTED AMPS PER PHASE	4	17	4	12	AVERAGE CONNECTED A	MPS PE	R PH	ASE =	415
								N	EC D	IVERSI	IFIED L	OAD C	ALCULATI	ONS	S									
ΓED	LOAD	PLUS	S 25% DIVER	RSIFIED TOTAL KV	'A = 8																			
100	)%, RE	MAIN	DER @ 50% AVERAGE	AMPS PER PHAS	E = 35				_IGH <sup>-</sup>	TING &	CONT	INUOUS	S LOADS:		- 100% CC	ONNE	CTE	LOAI	D PLUS	S 25% DIVER	RSIFIED	TOTAL	_ kVA =	<del>-</del> 95
			ALL OTHER LOADS WITH									RECEP	TACLES:	19.8	8 kVA @ 75% = 14.9 kVA - FIRST 10	)kVA	@ 10	)%. RI	EMAIN	DER @ 50% AVERAGE	AMPS F	PER PH	HASE =	= 395
OR	CALC	JLATE	D @ 125% PER NEC												MOTOR		_			ALL OTHER LOADS WITH	- •		_	
										ALL O	THER L	LOADS	@ 100% :	79	9.9 kVA - LARGES	T M	OTOR	CALC	ULATE	D @ 125% PER NEC				
								<b>-</b>																

VOLTS/PHASE/WIRE: PANEL SIZE & TYPE:

22" W x 6" D, BOLT-ON

120/240, 3 WIRE

PANEL: "SL1"

STAFF BREAK ROOM A104

CABINET:

SURFACE

NOTES:

AIC RATING: 22000

MAIN SIZE AND TYPE:

PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

400 AMPERE MAIN LUGS

				ENF-4	4" X 48" GYP MOUNTED: FLUSH SATIN LENS, LED, 0-10V DIMMING; ~1500 LUMENS; BATTERY PACK.	LED	19W	277V	PINNACLE AXIS PRUDENTIAL	E4A-835-4'-FL-U-OL1-1B-W BMRLED-750-80-35-B# P43-LED35-SO-EMHE
									MARK	SL4L LOP E10WLCP
				TX	SPECIAL FIXTURES AS INDICATED. MEET. FINISH APPROVAL REQUIRED.	ALL REQU	IREMENTS O	F SPECIFICA	TIONS AND FIXTUF	RE SCHEDULE. VISUAL AND
				TX-1	GOOSENECK WALL LAMP: 65LM 4700K, BRONZE OR BRUSHED STEEL, WALL MOUNTED	LED	1W	277V	ACCESS	62089LED-BRZ
0	СР	СКТ		UC	LED UNDERCABINET LIGHT: LOW PROFILE EXTRUDED CLEAR, POLYCARBONATE LEN 50,000 HOUR RATED LAMP LIFE; 2700 - 300 CONNECTORS FOR ROW INSTALLATION ( NUMBERS - CONNECTOR CONFIGURATION	NS; INTERN 00 DEG KEI CONNECTO	NAL LED DRIV LVIN COLOR ORS ARE NO	/ER; EFFICA( TEMPERATU T INCLUDED	CY GREATER THAN IRE, WIRING COMP IN THE FIXTURE SO	40 LUMENS PER WATT; ARTMENT; FLUSH END. CHEDULE CATALOG
Ε	AMP	NO		UC-98	SURFACE MOUNTED UNDERCABINET	LED	3W	120V	ALKCO	LINCS100-L10-120-WHG
	45	2			LIGHT FIXTURE, LED, 10" NOMINAL				WAC LIGHTING	
	 45 	6 8			LENGTH, GLOSSY WHITE, ~345 LUMENS MINIMUM				KENALL HEALTHCARE	
	15	10		UC-99	SURFACE MOUNTED UNDERCABINET	LED	6W	120V	ALKCO	LINCS100-L19-120-WHG
	20	12			LIGHT FIXTURE, LED, 19" NOMINAL				WAC LIGHTING	
	15	14			LENGTH, GLOSSY WHITE, ~345 LUMENS				KENALL	
		16			MINIMUM				HEALTHCARE	
	15	18								
	 25	20 22		14/8/4	OUDEAGE MOUNTED SHAWDE FIVELIDE LO	OATED AE	OVE DOOD	AO INDIOATE	D ON DDAMMINO	
		24		WM	SURFACE MOUNTED, 5" WIDE FIXTURE LC				KENALL	MI LIAE 24 E MW DD 251 40K
	_ <del></del> 25	26		WM-2	WALL MOUNT, 24" FIXTURE, STEEL HOUSING WITH WHITE POWDER	LED	25W	277V	KENALL	MLHA5-24-F-MW-PP-25L40K-
		28			COAT FINISH; LUMINOUS WHITE					
	25	30			ACRYLIC DIFFUSER;					
		32			TEXTURED WHITE FINISH					
	25	34			TEXTORES WITH THROTT					
		36	,	WM-4	CEILING MOUNT, 48" FIXTURE,	LED	49W	277V	KENALL	MLHA5-48-F-MW-PP-25L40K-
	15	38			STEEL HOUSING WITH WHITE POWDER					
		40			COAT FINISH; LUMINOUS WHITE					
	40	42			ACRYLIC DIFFUSER;					
		44			TEXTURED WHITE FINISH					
	20	46								
	20	48	,	WP	SURFACE MOUNTED WET LISTED EMERG		•	•		SION-RESISTANCT
	20	50			ENCLOSURE; SOLID STATE CHARGING CI					
	20	52		EWP-1	WALL MOUNT, WET LISTED FIXTURE,	LED	2W	120/277V	EXIT LIGHT	EL-WETLED
	20	54			BATTERY PACK; WHITE; UNV VOLTAGE;				COMPANY	
	20	56								
	20	58								
	20	60								
	20	62								
	20	64								
	20	66								
	20	68								
	20	70								
	20	72								
	20	74								
	20	76								
	20	78								
	20	80								
	20	82								
	20	84								

NARROW APPERTURE LED FIXTURES: RECESSED LINEAR FIXTURE; STATIC; EARTHQUAKE CLIPS INSTALLED IN GYP FIXTURES; OPAQUE ACRYLIC LENS

PRUDENTIAL

MARK

MARK

PINNACLE

PRUDENTIAL

E4A-835-2'-FL-U-OL1-1-W

E4A-835-4'-FL-U-OL1-1-W

BMRLED-750-80-35

BMRLED-750-80-35

P43-LED35-SO

P43-LED35-SO

MLHA5-24-F-MW-PP-25L40K-DCC-DV

MLHA5-48-F-MW-PP-25L40K-DCC-DV

SL4L LOP

SL4L LOP

4" X 24" GYP MOUNTED: FLUSH

SATIN LENS, LED, 0-10V DIMMING;

SATIN LENS, LED, 0-10V DIMMING

~700 LUMENS

~1500 LUMENS

NF-4 4" X 48" GYP MOUNTED: FLUSH

SPECTRUM ENGINEERS 324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

1 NOTES



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LOGAN REGIONAL HOSPITAL **RECONFIGURATION -**SLEEP LAB 550 E 1400 N, Suite R Logan, UT 84341



oject Manager	TERRI SUDBROOK
ject Designer	ERIC MEUB
ject Architect	FRANK PENROSE
ndscape Architect	ARCSITIO
ril Engineer	GREAT BASIN
uctural Engineer	REAVELEY
chanical Engineer	VAN BOERUM & FRA
ctrical Engineer	SPECTRUM
mbina Fasinsas	VAN DOEDLIM 9 ED

RUM & FRANK Plumbing Engineer VAN BOERUM & FRANK Interior Designer RUBY THORP ROBERT GRIESCHE **Equipment Planner** 

Author

DESCRIPTION

Sheet Reviewer MARK DATE

Wayfinding

**Project Number** 

Original Issue

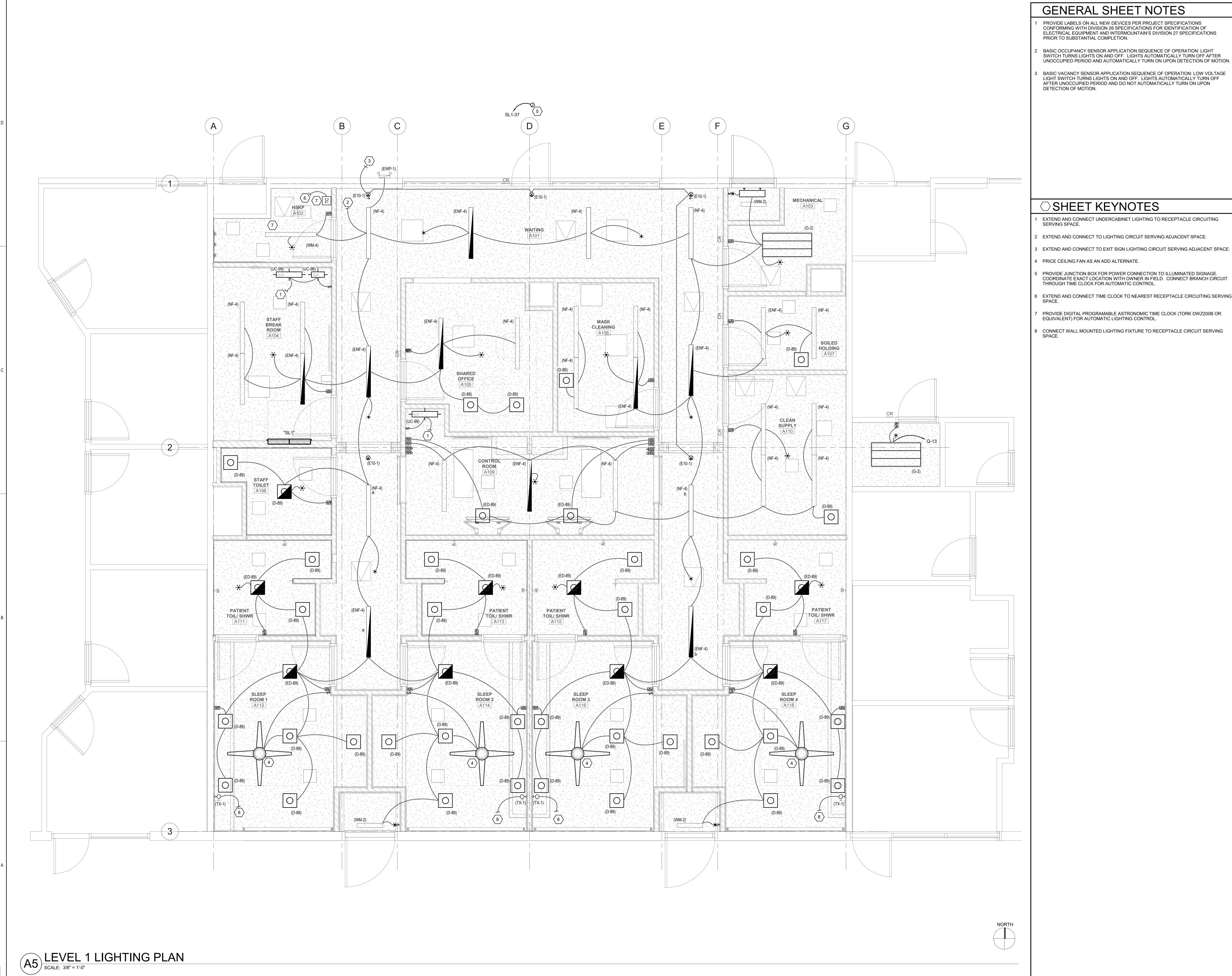
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Sheet Number

**EPC602** 

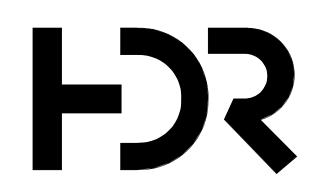
VOLTS/PHASE/WIRE: PANEL SIZE & TYPE: MAIN SIZE AN				TYPE: MAIN SIZE AND	TYPE:		LC	CATIC	N:	CABINET:	NOT	NOTES:					
20/24	0,3W	IRE	22"	W x 6'	' D. BO	DLT-ON 150 AMPERE MA	RE MAIN LUGS				TENANT UNIT Q	SURFACE					
	SSORIE					ORY, IDENTIFICATION, GROUNDI							CRATING	(FXIS	STING)		
	OC	<del></del>		LOAD (kVA) PHASE LOAD			7.10	LOAD		<del></del>	OCP	Cł					
CKT NO	AMP			PWR	co	DESCRIPTION	<del> </del>	A	OL L	В	DESCRIPTION	ON C	O PWR	` ′	POLE		Cr
1	30	1	0.0	1.2	0.0	DATA RACK POWER	1.		0		(EXISTING				1	20	2
3	30	1	0.0	1.2	0.0	DATA RACK POWER	1.		1.	.2 0.0	(EXISTING	,			1	20	4
5	30	1	0.0	1.2	0.0	DATA RACK POWER	1.	2 0.		2 0.0	(EXISTING	,			1	20	6
7	30	1	0.0	1.2	0.0	DATA RACK POWER			1.	.2 0.0	(EXISTING	<i>'</i>			1	20	8
9	30	2	0.0	3.5	0.0	TELECOM ROOM SPLIT SYSTE	EM 1.	8 0.		.2 0.0	(EXISTING	<i>'</i>			1	20	1
11								0.	1.	.8 0.0	(EXISTING	,			1	20	1
13	20	1	0.0	0.0	0.0	TELECOM ROOM LIGHTING	0.	0 0.		0.0	(EXISTING	,			1	20	1
15	20	1				(EXISTING)	0.	J	0.	.0 0.0	(EXISTING	<i>'</i>			1	20	1
17	20	1				(EXISTING)	0.	0 0.			(EXISTING	,			1	20	1
19	20	1				(EXISTING)			0.	0.0	(EXISTING	,			1	20	2
21	20	1				(EXISTING)	0.	0 0.			(EXISTING	,			1	20	2
23	20	1				(EXISTING)			0.	.0 0.0	(EXISTING	<i>'</i>			1	20	2
25	20	1				(EXISTING)	0.	0 0.	0		(EXISTING	<i>'</i>			1	20	2
27	20	1	-			(EXISTING)			0.	.0 0.0	(EXISTING	3) -			1	20	2
29	20	1	-			(EXISTING)	0.	0 0.	0		(EXISTING	3) -			1	20	3
31	20	1				(EXISTING)			0.	0.0	(EXISTING	3) -			1	20	3:
33	20	1				(EXISTING)	0.	0 0.	0		(EXISTING	6) -			1	20	3
35	20	1				(EXISTING)			0.	.0 0.0	(EXISTING	6) -			1	20	3
37	20	1				(EXISTING)	0.	0 0.	0		(EXISTING	S) -			1	20	3
39	20	1	-			(EXISTING)			0.	0.0	(EXISTING	6) -			1	20	4
41	20	1	1			(EXISTING)	0.	0 0.	0		(EXISTING	6) -			1	20	4
ГОТА	S:					CONNECTED kVA PER PH	ASE	4	·	4		CONNECTE	ED TOTAL	kVA =	8		
						CONNECTED AMPS PER PHA	ASE	35		35	AVERAGE	CONNECTED AMPS	S PER PH	ASE =	35		
IEC [	IVERSI	FIED LC	)AD C	ALCUL	OITA	NS											
LIGH	TING &	CONTIN	IUOUS	S LOAE	os: <b>0.0</b>	kVA @ 125% = 0.0 kVA - 100	% CON	NECT	ED LO	DAD PL	JS 25%	DIVERSIFI	IED TOTA	L kVA	= 8		
		R	FCFF	TACLE	-8-	- FIR	ST 10k\	/Δ @	100%	RΕΜΔ	NDER @ 50%	AVERAGE AMI	PS PER P	HASE	= 35		
		11	LOLI	IACLL	_0.			_			•		I O I LIXI	IIAGE	- 33		
	ALL O	THER LC	DADS	@ 100°	%:	8.3 kVA - INO	RGEST	MOTO	R CA	I CULA	NALL OTHER LOADS WIT ED @ 125% PER NEC	П					



# GENERAL SHEET NOTES

PROVIDE LABELS ON ALL NEW DEVICES PER PROJECT SPECIFICATIONS CONFORMING WITH DIVISION 26 SPECIFICATIONS FOR IDENTIFICATION OF ELECTRICAL EQUIPMENT AND INTERMOUNTAIN'S DIVISION 27 SPECIFICATIONS PRIOR TO SUBSTANTIAL COMPLETION.

- BASIC OCCUPANCY SENSOR APPLICATION SEQUENCE OF OPERATION: LIGHT SWITCH TURNS LIGHTS ON AND OFF. LIGHTS AUTOMATICALLY TURN OFF AFTER UNOCCUPIED PERIOD AND AUTOMATICALLY TURN ON UPON DETECTION OF MOTION.
- BASIC VACANCY SENSOR APPLICATION SEQUENCE OF OPERATION: LOW VOLTAGE LIGHT SWITCH TURNS LIGHTS ON AND OFF. LIGHTS AUTOMATICALLY TURN OFF AFTER UNOCCUPIED PERIOD AND DO NOT AUTOMATICALLY TURN ON UPON DETECTION OF MOTION.



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LOGAN REGIONAL HOSPITAL **RECONFIGURATION -**SLEEP LAB 550 E 1400 N, Suite R Logan, UT 84341



Landscape Architect Structural Engineer Mechanical Engineer **Electrical Engineer** Plumbing Engineer

RUBY THORP ROBERT GRIESCHE

Interior Designer **Equipment Planner** Sheet Reviewer

DESCRIPTION



LEVEL 1 LIGHTING PLAN

**ELC101** 

	CABLE/OUTLET COLOR SCHEDULE									
COLOR	TYPE									
BLACK	TV COAX									
BLUE	ANALOG PHONE									
BLUE	DATA									
BLUE	IP SECURITY CAMERAS									
GREY	SECURITY CARD READERS									
ORANGE	CLINICAL ENGINEERING / NURSE CALL									
RED	FIRE SYSTEMS									
RED	FORESEER									
WHITE	PUBLIC ADDRESS									
YELLOW	WIRELESS									
GREEN	VENDOR NETWORK									

EQUIPMENT/CABLE LIST	
STRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIG	ΞN

THE ITEMS INDICATED BELOW SHALL NOT BE CONST NIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE. FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

_ ~ ~						
SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES				
	STATION CABLE, DATA - CATEGORY 6A FUTP RISER, BLUE, DATA	SIEMON 9A6R4-A5-06-R1A				
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, YELLOW, WIRELESS DATA	SIEMON 9A6P4-A5-05-R1A				
V	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02				
<b>V</b>	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
F	DATA OUTLET, FURNITURE FACEPLATE, BLACK	SIEMON MX-UMA-01				
<b>\_</b>	CATERGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
	BLANK MODULE, BLACK	SIEMON MX-BL-01				
4	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02				
▼	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
	BLANK INSERT, WHITE	SIEMON MX-BL-02				
$\left(\left(\begin{pmatrix} \bullet \end{pmatrix}\right)\right)$	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02				
M̃ć	CATEGORY 6A JACK - DATA, YELLOW	SIEMON Z6A-S05				
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02				
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
SPP1	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON Z6AS-PA-48				
HWM	HORIZONTAL WIRE MANAGERS, 4RU	PANDUIT NCMHAEF4				

# GENERAL PROJECT NOTES

- . UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- 2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- 3. LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF
- 4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
- 5. IF OUTLET IS TERMINATED IN CEILING SPACE, LABEL THE T-BAR GRID WITH THE OUTLET NUMBER FOR EASY LOCATION AND IDENTIFICATION.
- 6. GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN

COMPLIANCE WITH THE CONTRACT DOCUMENTS.

- FOR EVERY CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE. NEATLY COIL 15' ABOVE THE CEILING OR
- BELOW FLOOR WHERE APPLICABLE.

8. PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL

- DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.
- 9. RACK SPACE ALLOCATION SHOULD BE FOLLOWED PER DRAWINGS. IF YOU HAVE A SYSTEM THAT HAS NOT RACK ALLOCATION PLEASE CALL BOE SAUSEDO AT 801-707-3805.
- 10. COORDINATE WITH ALL SUBS TO ENSURE THAT ALL CABLES ARE PROTECTED FROM ANY DIRECT PAINT, OR INCIDENTAL OVERSPRAY.

# **ABBREVIATIONS**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED. AUGMENTED CAT CATEGORY **ENHANCED EQUIPMENT ROOM** FIBER PATCH PANEL GIG GIGA HERTZ HORIZONTAL WIRE MANAGEMENT NOT IN CONTRACT OWNER ELECTRONICS PLENUM POWER SUPPLY RISER PATCH PANEL STATION PATCH PANEL TELECOMMUNICATIONS ROOM TYPICAL

VERTICAL WIRE MANANGEMENT

VWM

# **DEFINITIONS**

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED". "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

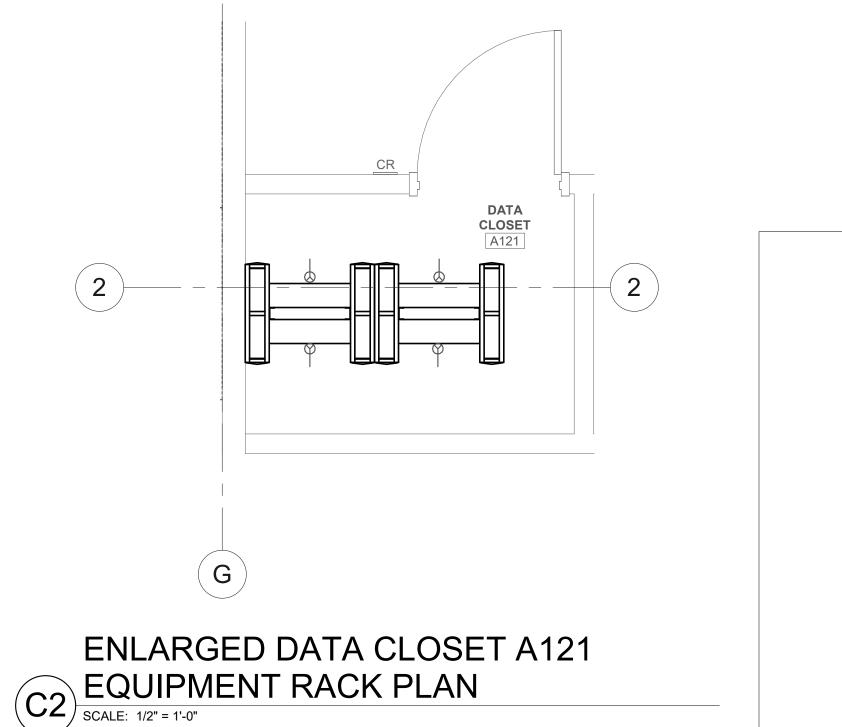
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

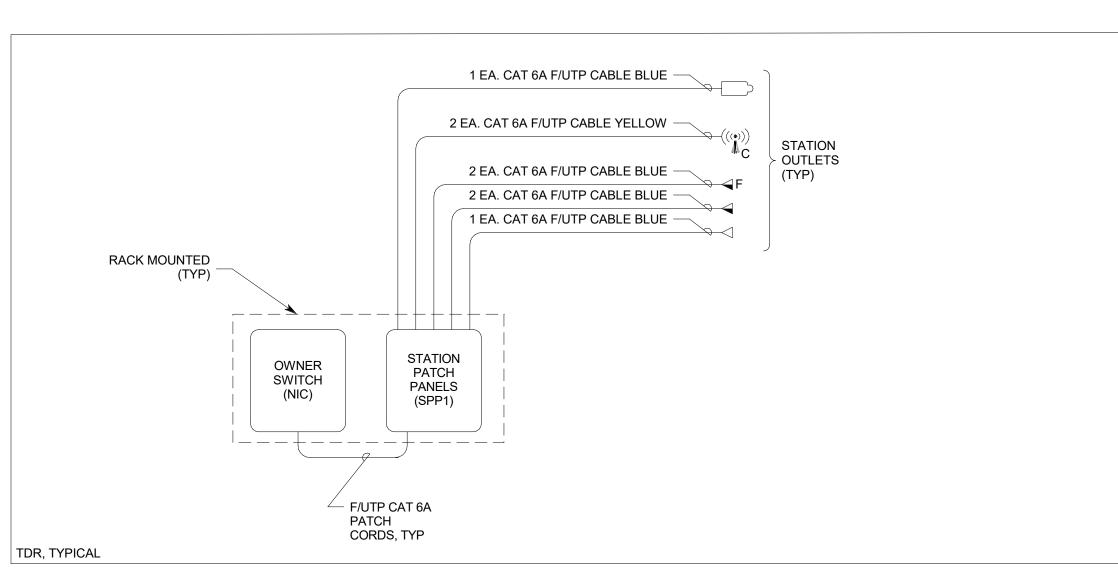
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

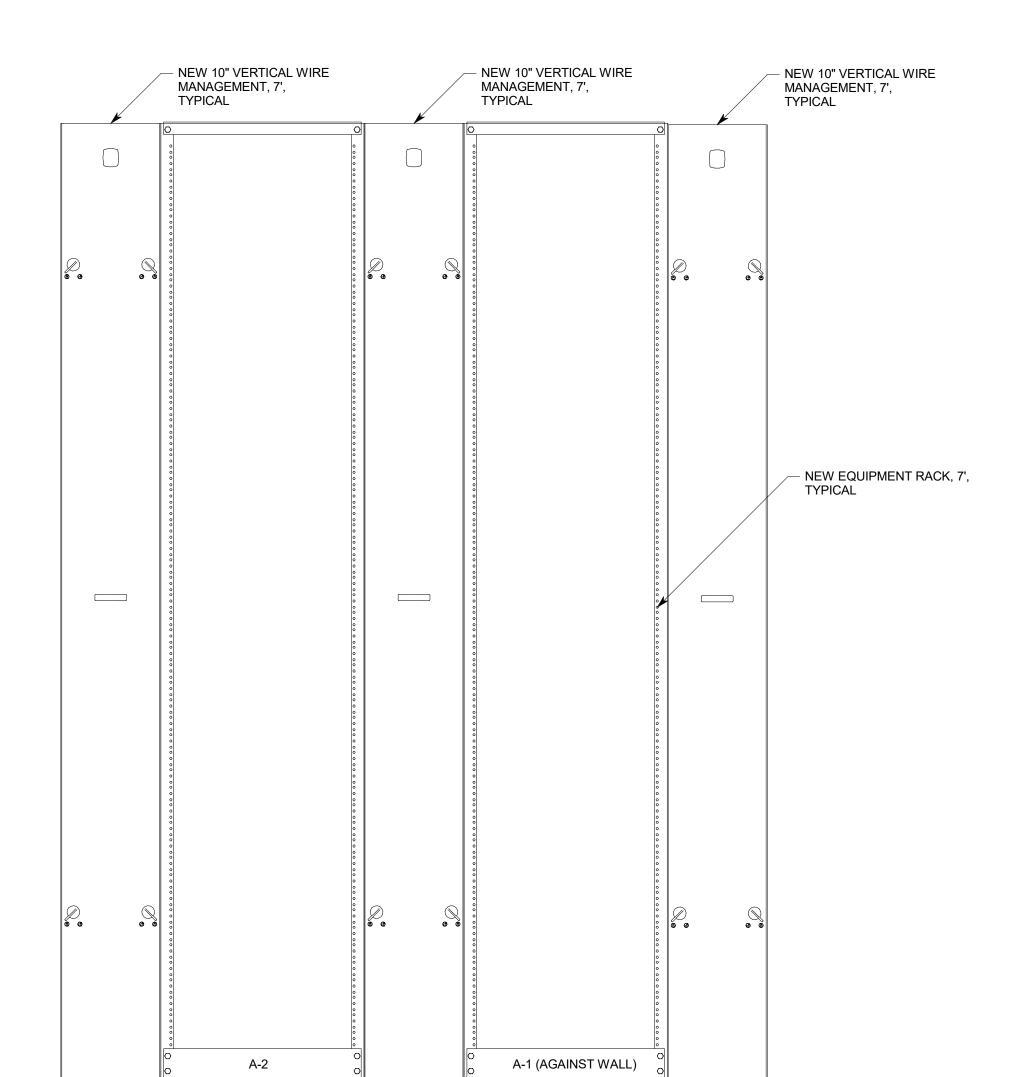
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

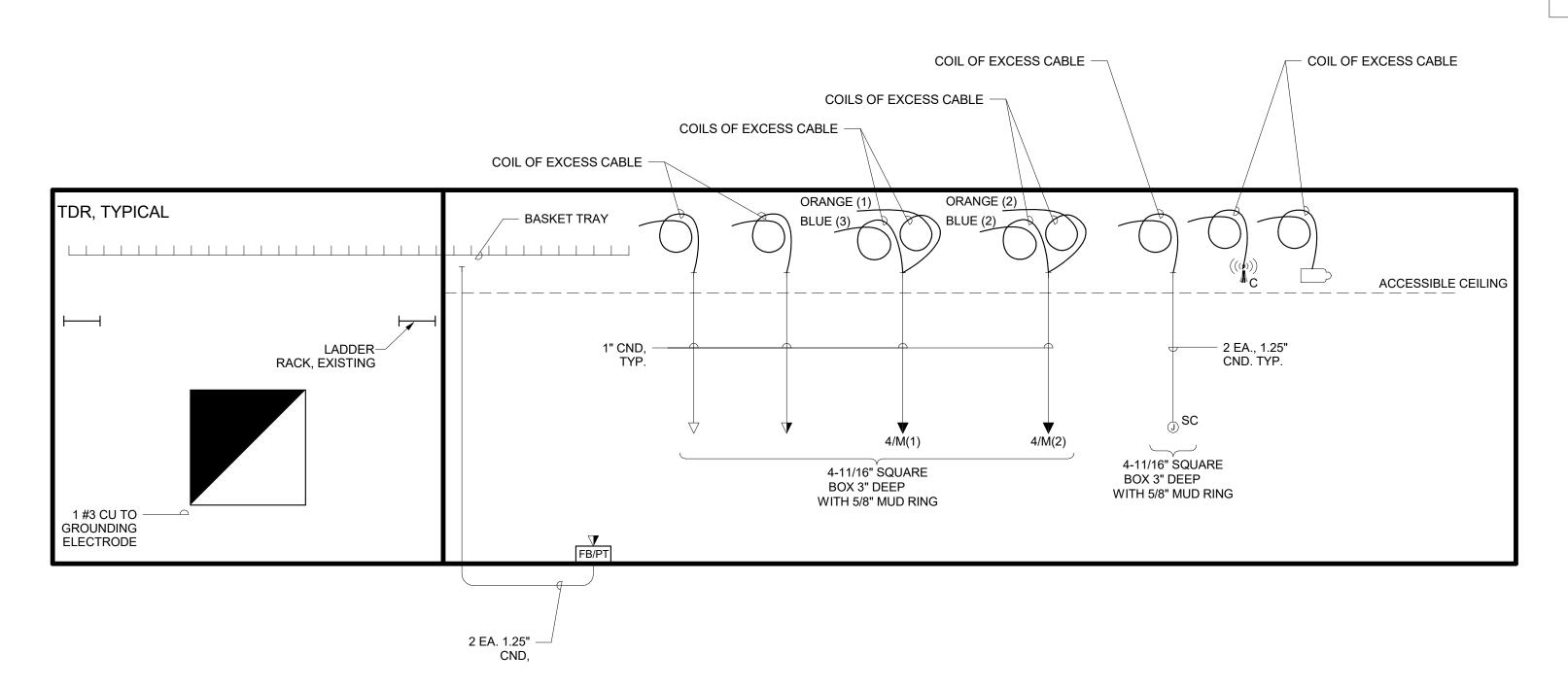




NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR







TELECOM CABLING CONDUIT RISER DIAGRAM

TELECOM RACK ELEVATION DETAIL, DATA CLOSET A121

-NEW 18"x4" CABLE

TRAY MOUNTED

AT +10'-0" A.F.F.

CLOSET

A121

**ENLARGED DATA CLOSET A121** 

C1 LADDER RACK PLAN

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

**ETC001** 

100% Construction Documents



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LOGAN REGIONAL HOSPITAL **RECONFIGURATION -**SLEEP LAB 550 E 1400 N, Suite R Logan, UT 84341



Project Manager TERRI SUDBROOK **Project Designer** ERIC MEUB Project Architect FRANK PENROSE Landscape Architect ARCSITIO Civil Engineer GREAT BASIN Structural Engineer REAVELEY Mechanical Engineer **VAN BOERUM & FRANK Electrical Engineer** SPECTRUM

**Equipment Planner** Wayfinding **Sheet Reviewer** 

MARK DATE

Plumbing Engineer

Interior Designer

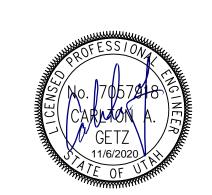
**VAN BOERUM & FRANK** 

RUBY THORP

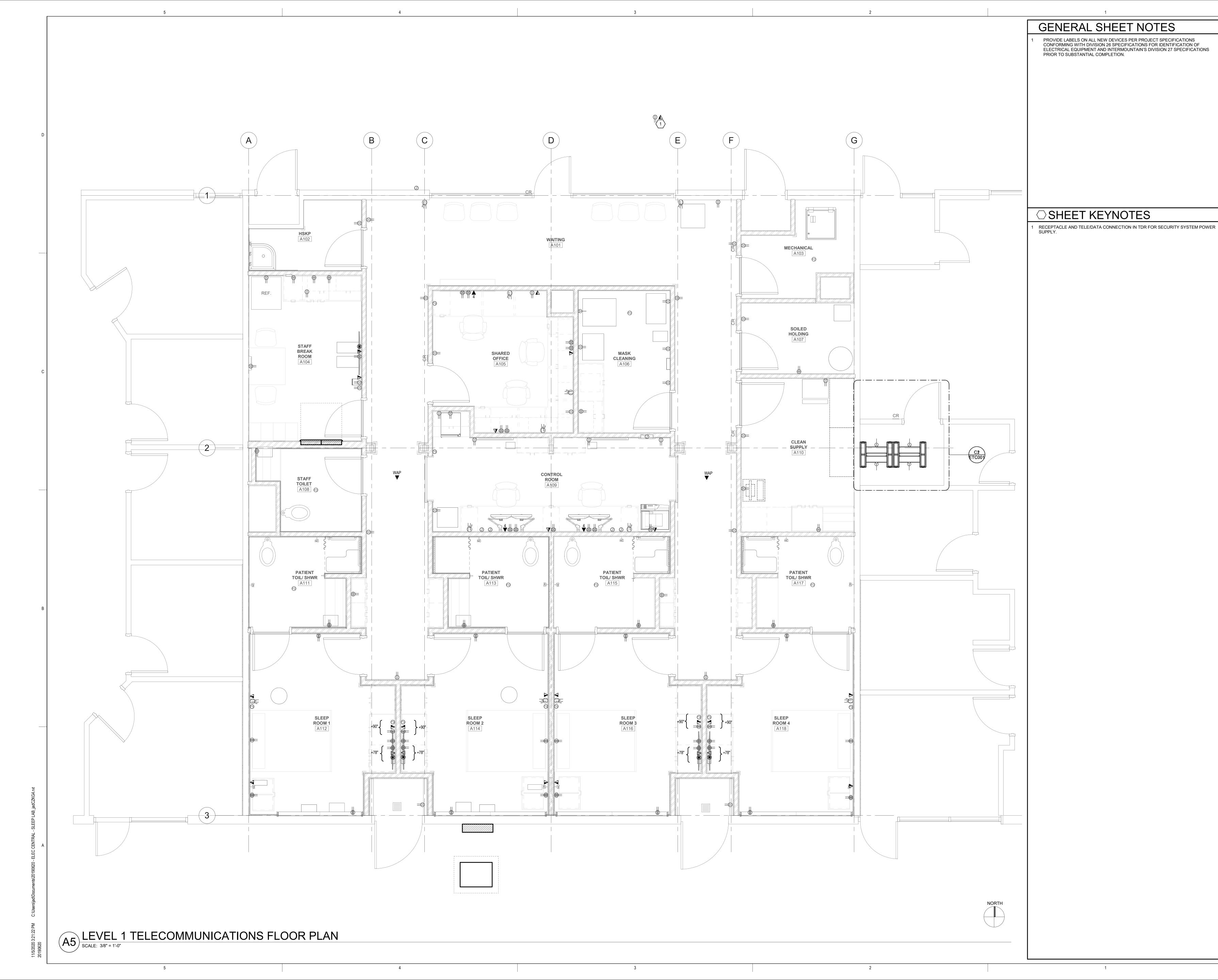
DESCRIPTION

ROBERT GRIESCHE

**Project Number** 10173823 07/17/18 Original Issue



**TELECOM** SCHEDULES, NOTES, AND RISER DIAGRAMS



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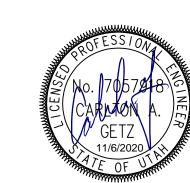
Project Designer **Landscape Architect** Structural Engineer **Mechanical Engineer** Electrical Engineer VAN BOERUM & FRANK RUBY THORP Plumbing Engineer

Sheet Reviewer DESCRIPTION MARK DATE

Interior Designer

**Equipment Planner** 

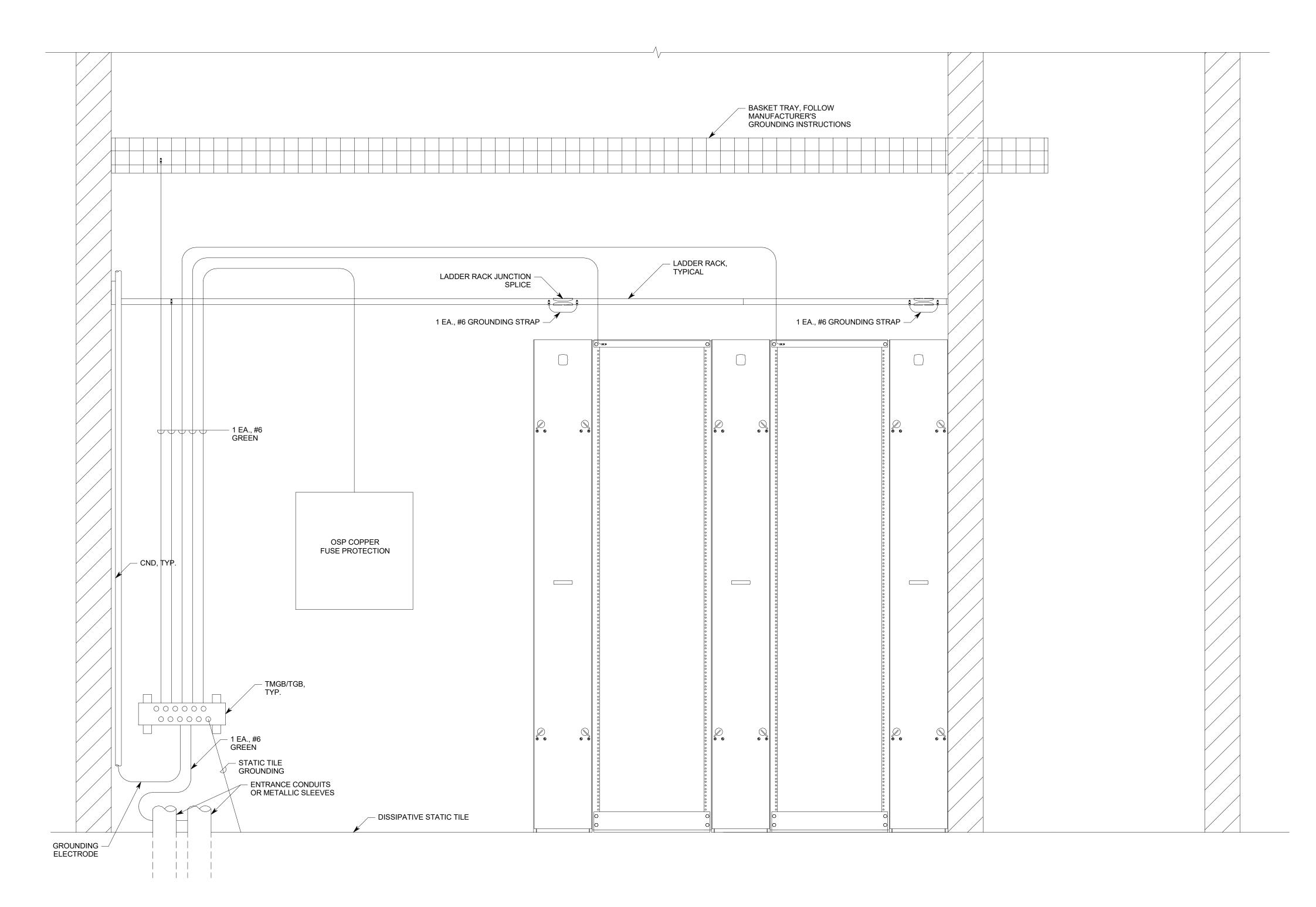
ROBERT GRIESCHE

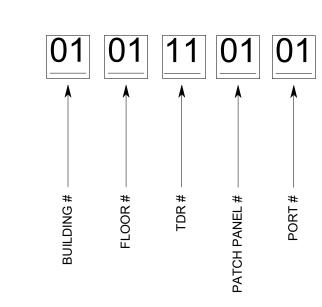


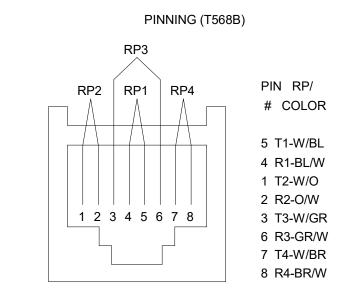
LEVEL 1 **TELECOMMUNICATIONS** FLOOR PLAN

**ETC101** 

- 1. ALL LOW VOLTAGE COMMUNICATIONS CONDUIT SHALL BE GROUNDED TO BASKET TRAY OR TELECOMMUNICATIONS GROUNDING BUS BAR.
- 2. "TMGB" SHOULD BE  $\frac{1}{4}$ "x4"x24". PANDUIT PART NUMBER GB4B1028TPI-1, OR
- 3. "TGB" SHOULD BE  $\frac{1}{4}$ "x2"x24". PANDUIT PART NUMBER GB2B0514TPI-1, OR EQUAL.
- 4. EMT CONDUIT GROUNDING CLAMP SHOULD BE ELECTROLYTIC CAST BRONZE. PANDUIT PART NUMBER GPL-"X"-"X", OR EQUAL.
- 5. RIGID CONDUIT GROUND CLAMP SHOULD BE O-Z/GEDNEY BLG-XXXX, OR HBLG-XXXX, OR EQUAL.
- 6. GROUNDING LUGS SHOULD BE TWO HOLE LONG BARREL LUGS. PANDUIT PART NUMBER LCC6, OR EQUAL. DRILL HOLES AND USE BOLTS, NUTS, AND LOCK WASHERS TO SECURE GROUND LUG.
- 7. ALL GROUNDING POINTS SHOULD BE METAL TO METAL. REMOVE POWDER COATING OR PAINT IF NECESSARY.

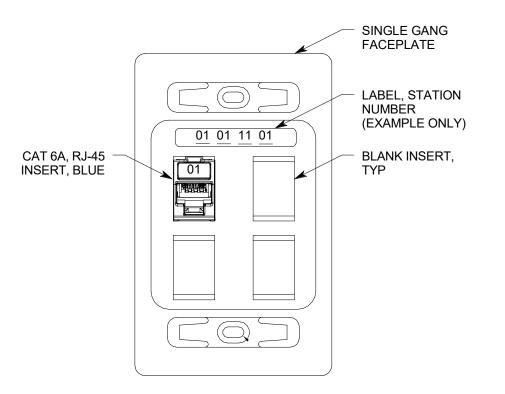


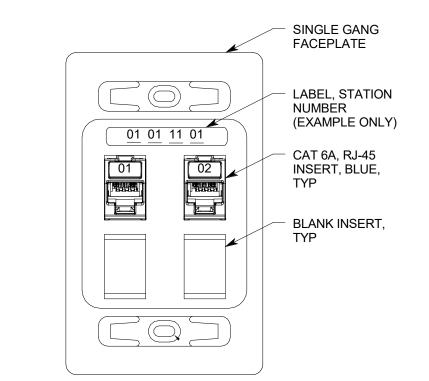






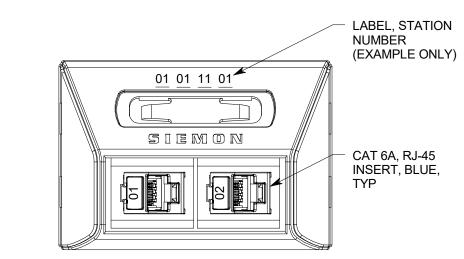


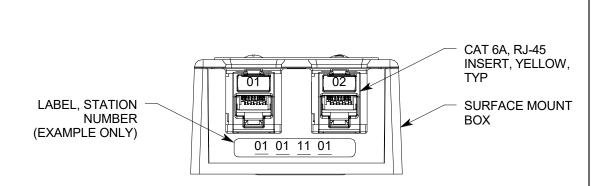






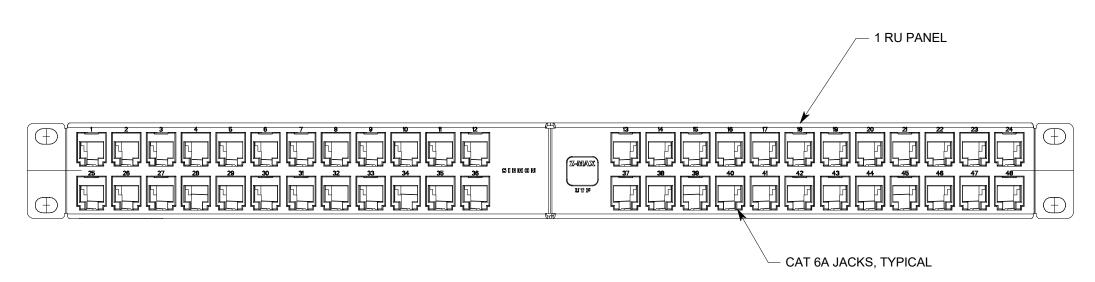












STATION PATCH PANEL, (SPP1), TDR
NO SCALE

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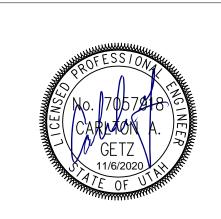
LOGAN REGIONAL HOSPITAL **RECONFIGURATION -**SLEEP LAB 550 E 1400 N, Suite R Logan, UT 84341



Project Manager	TERRI SUDBROOK
Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
andscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & FRANK
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & FRANK
nterior Designer	RUBY THORP
Equipment Planner	ROBERT GRIESCHE
Vayfinding	
Sheet Reviewer	SJT

MARK	DATE	DESCRIPTION	

Original Issue

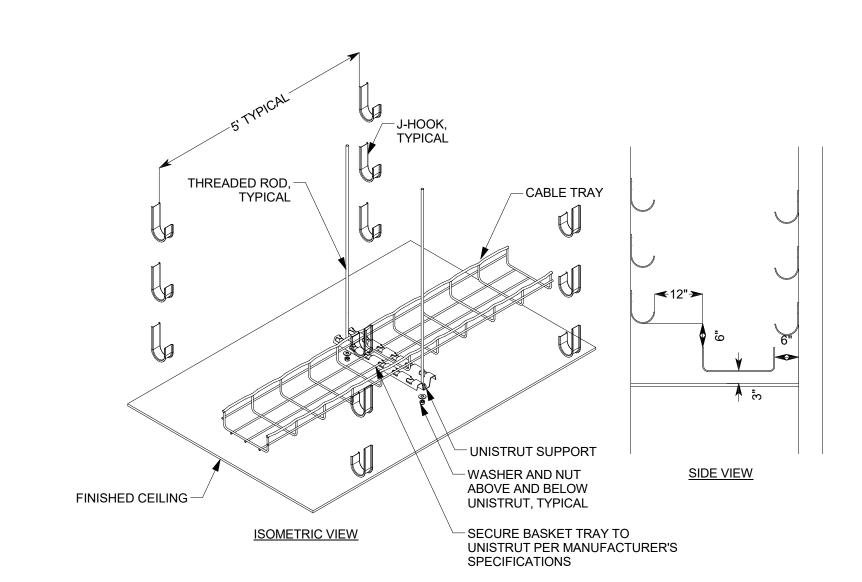


TELECOM DETAILS

**ETC501** 

100% Construction Documents

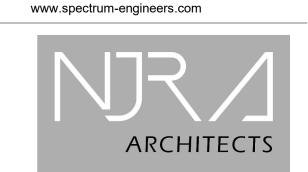
TYPICAL TELECOM EQUIPMENT RACK GROUNDING DETAIL



TYPICAL CABLE TRAY WITH J-HOOK INSTALL
NO SCALE



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TERRI SUDBROOK Structural Enginee Mechanical Engineer

Sheet Reviewer

**Electrical Engineer** Plumbing Engineer Interior Designer **Equipment Planner** 

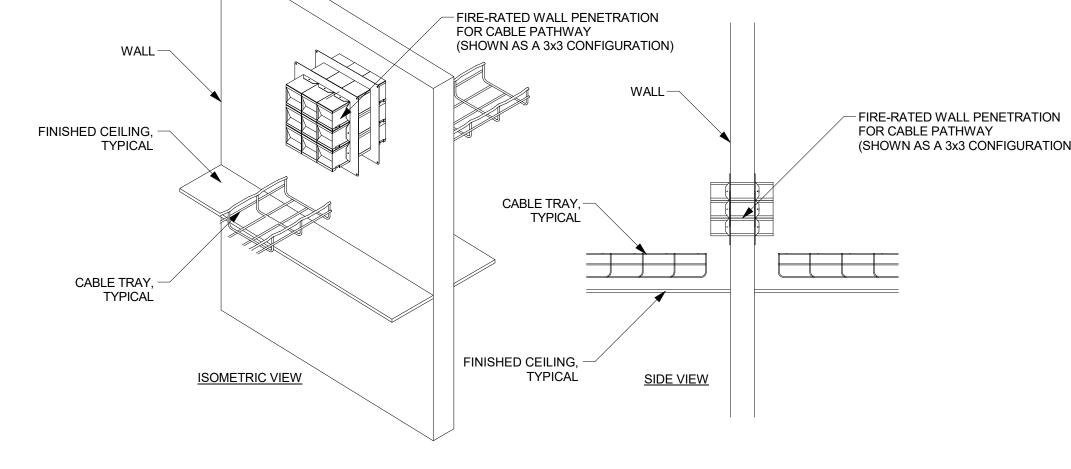
ROBERT GRIESCHE



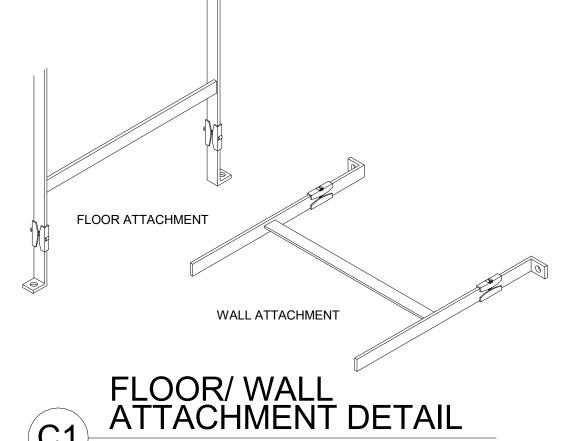
TELECOM DETAILS

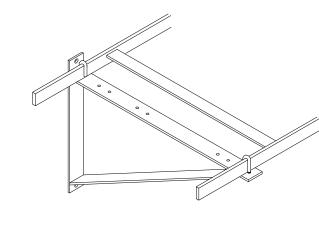
**ETC502** 

100% Construction Documents

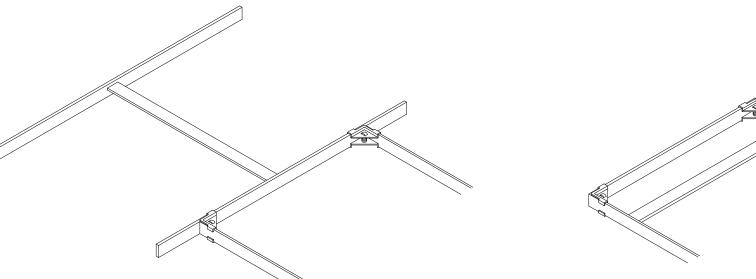


TYPICAL CABLE TRAY WITH WALL PENETRATION DETAIL

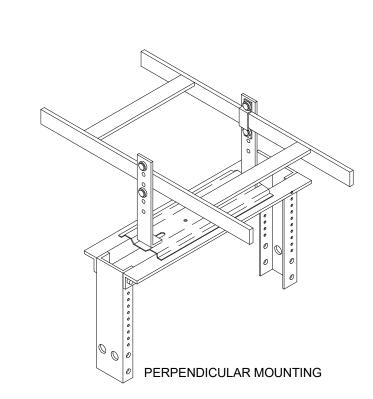


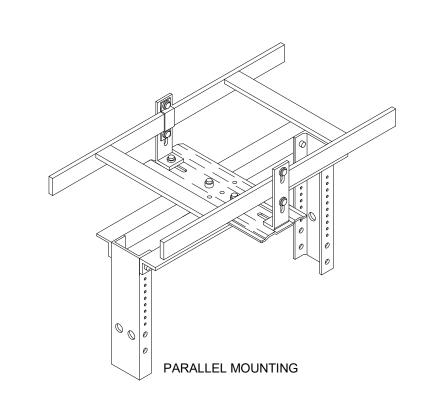


TRIANGLE BRACKET DETAIL

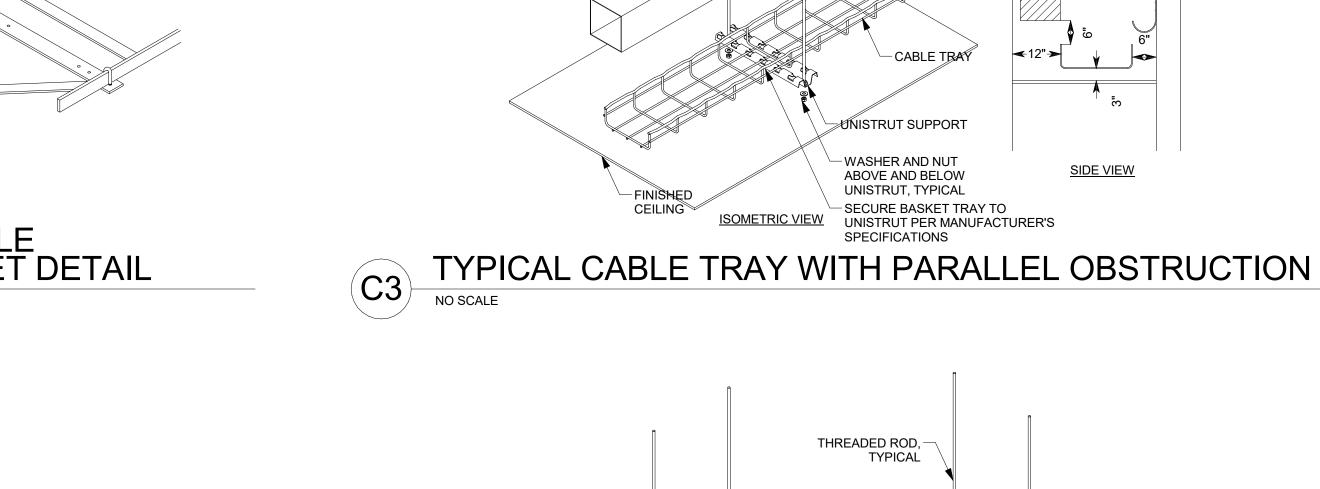


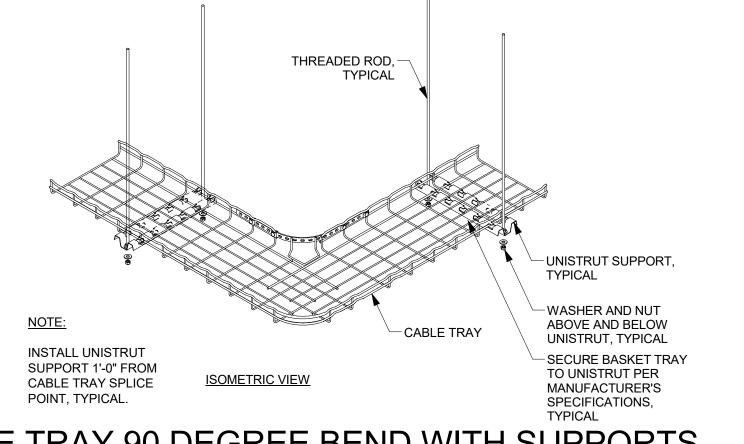
CABLE RUNWAY END/ CLOSING SPLICE DETAIL
NO SCALE





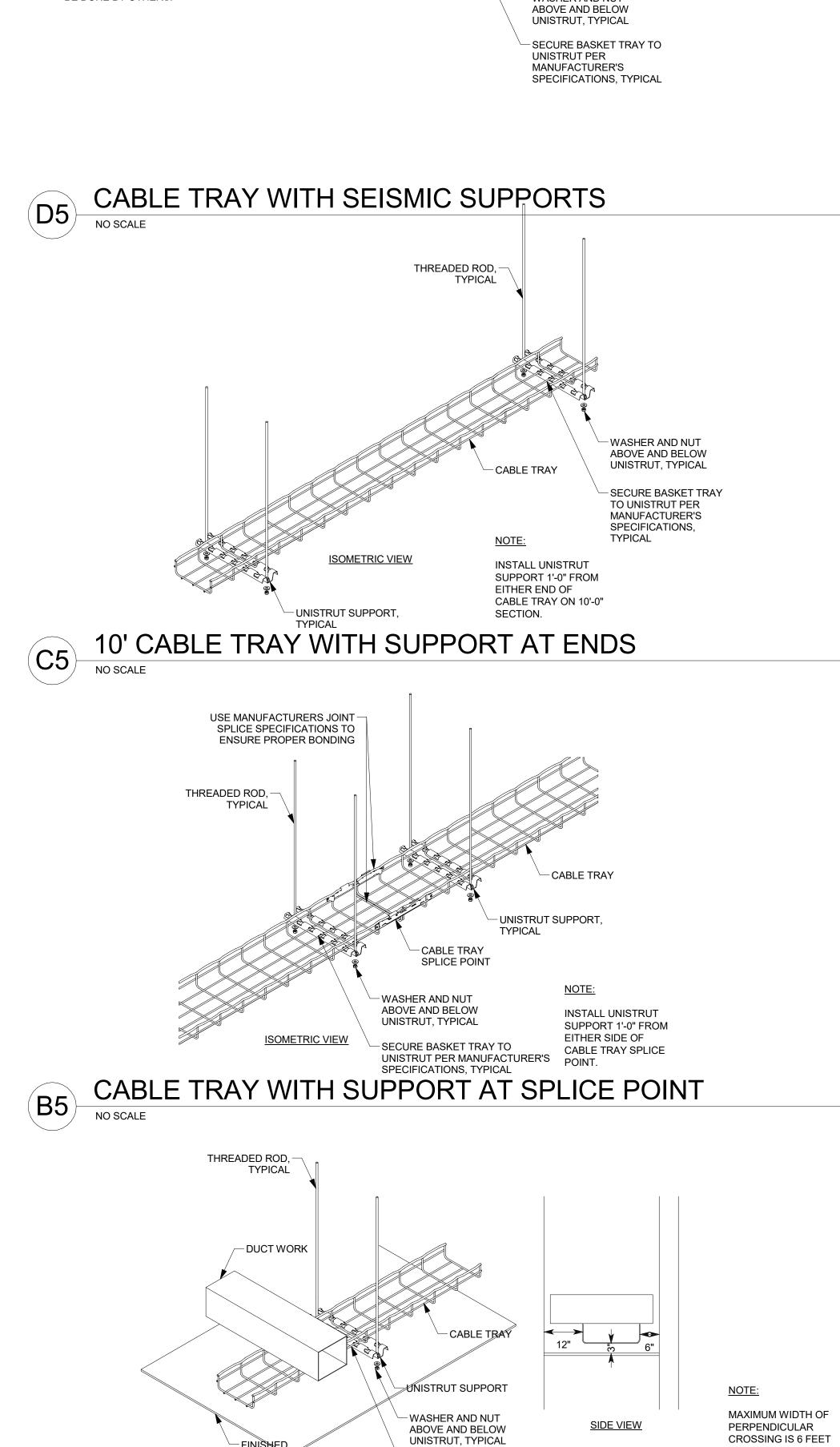
6" CHANNEL RACK-TO-RUNWAY MOUNTING PLATE





CABLE TRAY 90 DEGREE BEND WITH SUPPORTS THREADED ROD, UNISTRUT SUPPORT, -WASHER AND NUT ABOVE AND BELOW UNISTRUT, TYPICAL — SECURE BASKET TRAY TO UNISTRUT PER MANUFACTURER'S SPECIFICATIONS, SUPPORT 1'-0" FROM CABLE TRAY SPLICE

CABLE TRAY INTERSECTION WITH SUPPORTS



- SECURE BASKET TRAY TO

TYPICAL CABLE TRAY WITH PERPENDICULAR CROSSING

UNISTRUT PER

MANUFACTURER'S SPECIFICATIONS

THREADED ROD,

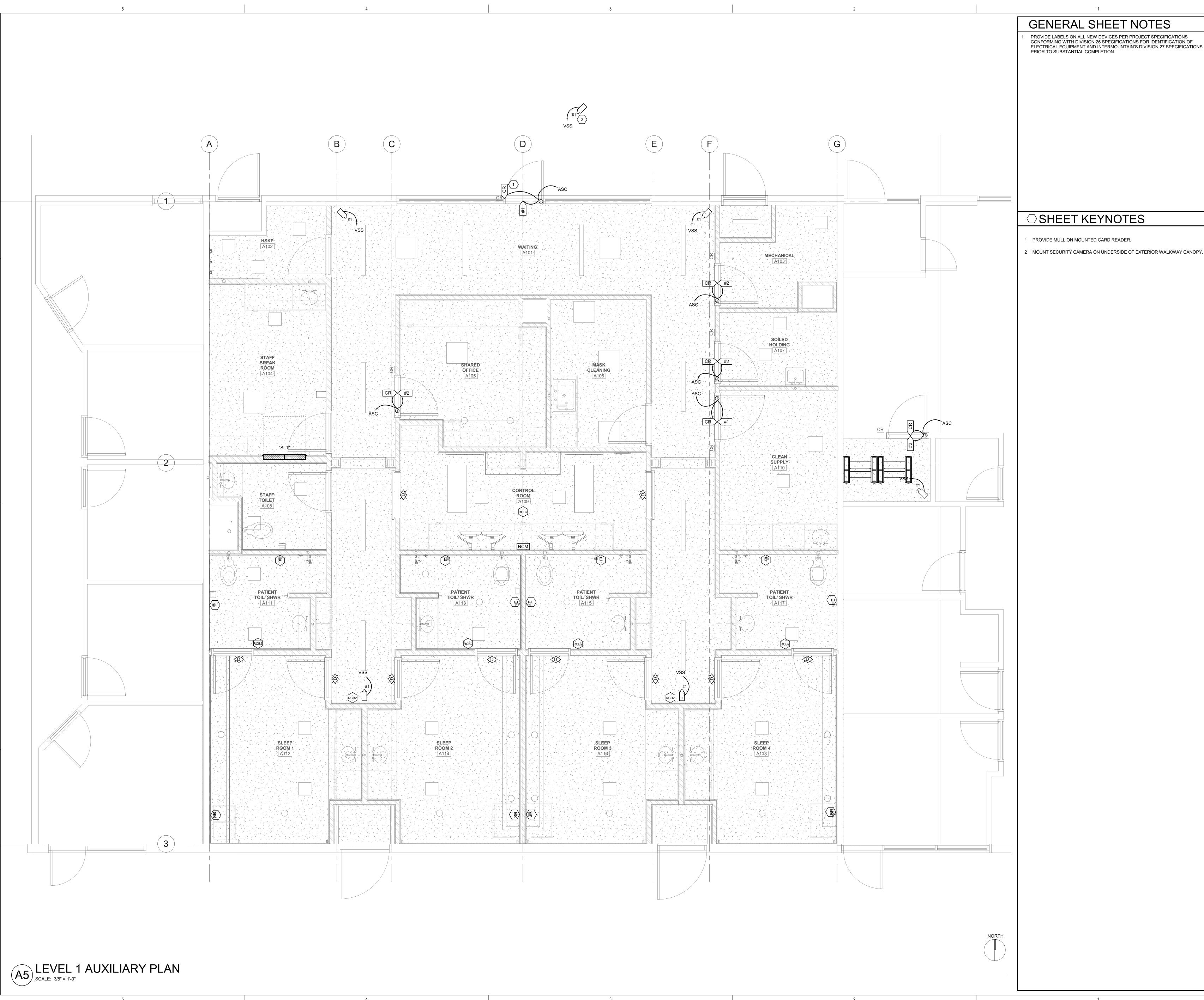
SUPPORT, TYPICAL

-UNISTRUT SUPPORT

SEISMIC SUPPORT, -TYPICAL

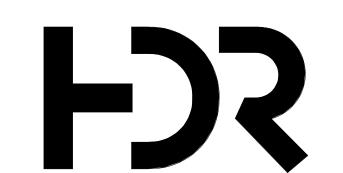
ISOMETRIC VIEW

SEISMIC ENGINEERING TO BE DONE BY OTHERS.



# **GENERAL SHEET NOTES**

PROVIDE LABELS ON ALL NEW DEVICES PER PROJECT SPECIFICATIONS CONFORMING WITH DIVISION 26 SPECIFICATIONS FOR IDENTIFICATION OF ELECTRICAL EQUIPMENT AND INTERMOUNTAIN'S DIVISION 27 SPECIFICATIONS PRIOR TO SUBSTANTIAL COMPLETION.



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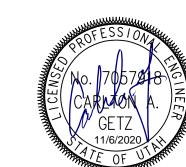
TERRI SUDBROOK **Landscape Architect** Structural Engineer **Mechanical Engineer** Electrical Engineer VAN BOERUM & FRANK RUBY THORP Plumbing Engineer Interior Designer

Sheet Reviewer

**Equipment Planner** 

DESCRIPTION MARK DATE

ROBERT GRIESCHE



LEVEL 1 AUXILIARY PLAN

**EYC101** 

# NOTES

PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.

PUSH BUTTON RELEASE PANIC HARDWARE PUSH PAD ACTUATOR

OBTAIN FROM PLANS

POWER SUPPLY POE EXIT DEVICE

POE ELECTRIC LOCKSET

REMOTE OPEN SWITCH REX = REQUEST TO EXIT SWITCH/FUNCTION

TIME/SYSTEM LOCK CONTROL

INTERFACE BOARD FOR COMBO LOCKING HARDWARE

QTY = QUANTITY

TYP = TYPICAL W/ = WITH

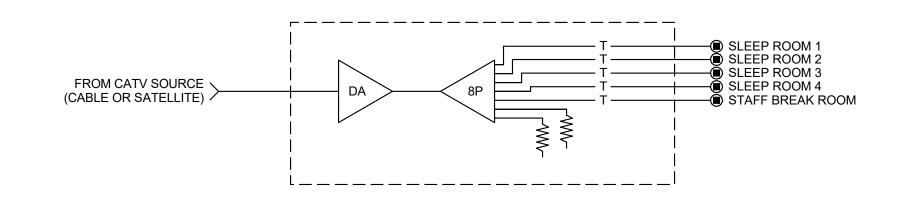
PWR =

TLC =

- PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
- CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.
- 4. LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
- DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
- ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS				CARD ACCESS DO	OR TYPE SCHEDULE		
1G = 1-GANG OR SINGLE GANG 4SQ = FOUR SQUARE JUNCTION BOX AO = AUTO OPENER	DOOR TYPE#	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
A/R = AS REQUIRED  ACC = ACCESSIBLE  ACS = ACCESS CONTROL SYSTEM CONTROLLER  ADA = ASSISTED DISABILITY OPENER  AED = ELECTRIC EXIT DEVICE/CR COMBO ON DOOR  AEL = ELECTRIC LOCK/CR COMBO ON DOOR  C = CONDUIT  CI = DOOR CONTACT INDICATOR SWITCH  CR = CARD READER  DH = DOUBLE  DED = DELAYED EXIT DEVICE  DIR = DIRECTION  ED = EXIT DEVICE  EH = ELECTRIC HINGE  EL = ELECTRIC LOCKSET	TYPE 1	HARDWARE SET(S): 2.1	SINGLE DOOR, ACCESS CONTROL LOCK FREE EGRESS CARD READER	4SQ J-BOX ABOVE ACC CEILING  ACCESS CONTROL LOCK  ELECTRIC POTENTIAL TRANSFER  DOOR HARN	DWER CONTROL LOCK	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES:  HARDWARE CONTRACTOR PROVIDES:  EL, FH, DH, L/PS, EPT LOCK CONTROLLED BY:  CR
ES = ELECTRIC STRIKE  EDL = ELECTRIC DEADLATCH  EED = ELECTRIFIED EXIT DEVICE  ELC = EMERGENCY LOCK CONTROL  EPT = ELECTRIC POWER TRANSFER  FA = FIRE ALARM SYSTEM  FH = FRAME HARNESS  HDWR = HARDWARE  IDS = INTRUSION DETECTION SYSTEM  KS = KEY SWITCH  LS = LOCK INDICATOR SWITCH IN HARDWARE  LX = PANIC HARDWARE LATCH POSITION SWITCH  L/PS = LOCK POWER SUPPLY  MD = MOTION DETECTOR  ML = ELECTROMAGNETIC LOCK  OCC = OCCUPANCY	TYPE 2	HARDWARE SET(S): 1.0, 2.0, 3.0	SINGLE DOOR, ACCESS CONTROL LOCK FREE EGRESS CARD READER	4SQ J-BOX ABOVE ACC CEILING  ACCESS CONTROL LOCK  FRAME HARI .75" C (TYP)  ELECTRIC H	NGE CONTROL LOCK	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES:  HARDWARE CONTRACTOR PROVIDES:  EL, FH, DH, L/PS, EH LOCK CONTROLLED BY:  CR

T∖	TV DISTRIBUTION EQUIPMENT LIST							
SYMBOL	DESCRIPTION	QTY	ACCEPTABLE TYPES					
8P	MULTI-PORT SPLITTER	OFP	2-PORT BLONDER TONGUE SXRS-2 4-PORT BLONDER TONGUE SXRS-4 8-PORT BLONDER TONGUE SXRS-8					
DA	BROADBAND AMPLIFIER	OFP	BLONDER TONGUE BIDA 75A-43P					
•	WALL TAP PLATE	OFP	BLONDER TONGUE VERSATAP SERIES MODEL V-1GF-FT W/ COVER PLATE					
-/W/-	RF TERMINATOR	A/R	75 OHM TERMINATOR					
/T	COAXIAL CABLE, HORIZONTAL DROP	A/R	RG-6 (SEE SPECIFICATIONS)					
TR <sup>-</sup>	COAXIAL CABLE, TRUNK	A/R	RG-11 (SEE SPECIFICATIONS)					

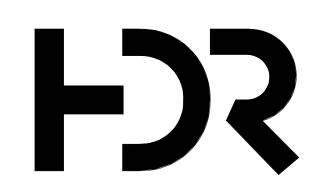


NOTES:

1. TERMINATE ALL UNUSED DEVICE PORTS WITH 75 OHM TERMINATING CONNECTORS. 2. ALL TV OUTLET JACKS SHALL PROVIDE AT LEAST +2dBmV OF



SYMBOL	MANUF.	PART#	DESCRIPTION	BACKBOX	BOX MOUNTING HEIGHT
NCM	HILL-ROM	P2500NNC1B00	STAFF CONSOLE, DESK MOUNT	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
NCM	HILL-ROM	P2594NNC3A00	STAFF CONSOLE, WALL MOUNT	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
GA	HILL-ROM	P2594NNC3B00	GRAPHICAL ANNUNCIATOR	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
BC	HILL-ROM	P2505NNC1B00	AUDIO STATION BED CONNECTOR (ASBC)	GARVIN 52181-3/4, WITH GARVIN 52C13 RING, OR ANY OTHER 4" SQUARE 3.5" DEEP BACK BOX WITH SINGLE GANG MUD RING.	REFER TO ELEVATION DRAWINGS
EQ	HILL-ROM	P2516A01	EQUIPMENT RECEPTACLE	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
Ds	HILL-ROM	P2506NNC1B00	DOME LIGHT, SINGLE LED	RACO 231, WITH RACO 778 RING, OR ANY OTHER 4" SQUARE 2 1/8" DEEP BACK BOX.	REFER TO ELEVATION DRAWINGS
<b>\Disp\</b>	HILL-ROM	P2506NNC8A00-D	ICON BASED-LIGHT LED DOME LIGHT	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
<b>\(\bar{Z}\right)</b>	HILL-ROM	P2506NNC8A00-7	ICON BASED-LIGHT LED ZONE LIGHT	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
POE-24	HILL-ROM	P2519NNC1A24	POE SWITCH		REFER TO ELEVATION DRAWINGS
ĈB ₿	HILL-ROM	P2520A07	CODE BLUE PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520A08	STAFF EMERGENCY PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
Ê	HILL-ROM	P2520B01	BATH SWITCH, W/CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
Ē <sub>3</sub>	HILL-ROM	P2520B02	BATH SWITCH, W/O CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
UPS, APC Rackmount Non-Seismic	HILL-ROM	P2521B02	UPS, RACK MOUNTABLE, 2U - NON-SEISMIC		REFER TO ELEVATION DRAWINGS
ŚR	HILL-ROM	P2594NNC1B01	STAFF STATION - STANDARD ROOM STATION W/O CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
<b>GR</b>	HILL-ROM	P2594NNC2C00	GRAPHICAL ROOM STATION (GRS) - STAFF	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
GR (B	HILL-ROM	P2594NNC2C11	GRAPHICAL ROOM STATION (GRS) - PATIENT	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
RAD	HILL-ROM	P2594NNC4A10	REMOTE AUDIO DEVICE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
RCB2	HILL-ROM	P2599NNC2A00	RCB2 ROOM CONTROL BOARD	STEEL CITY GW-235G, RACO 696 OR ANY OTHER 3.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
Staff	HILL-ROM	RTLS-CLOSED	RTLS - STAFF LOCATING LOCATION-CLOSED AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
Staff	HILL-ROM	RTLS-OPEN	RTLS - STAFF LOCATING LOCATION-GLASS/OPEN AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
Staff	HILL-ROM	RTLS-BAY	RTLS - STAFF LOCATING LOCATION-BAY	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
R	CURBELL	MAP985A	REMOTE ENTERTAINMENT STATION	STEEL CITY GW-225C, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS



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oject Designer	ERIC MEUB
oject Architect	FRANK PENROSE
Indscape Architect	ARCSITIO
vil Engineer	GREAT BASIN
ructural Engineer	REAVELEY
echanical Engineer	VAN BOERUM & FR
ectrical Engineer	SPECTRUM

Interior Designer RUBY THORP **Equipment Planner** ROBERT GRIESCHE Sheet Reviewer

ARK	DATE	DESCRIPTION



**AUXILIARY RISER** DIAGRAMS

Sheet Number

EYC601

REQUIREMENTS FOR	R POE -120-240 VAC 1 -1 ET CONNECTION			POWER
the requirem	ons between POE : ents for Cat5e, th ansceivers (also ki	he switches o	accept	

See the NNC Install Manual for further information.

REQUIREMENTS FOR THE UPC

REQUIREMENTS FOR THE SERVERS -115 VAC 15 AMP MAX EMERGENCY POWER -MAX.1 C508AC TEMPAMPS MASS EMERGENCY POWER -1 CATS WIRES BETWEEN POE AND THE SERVER

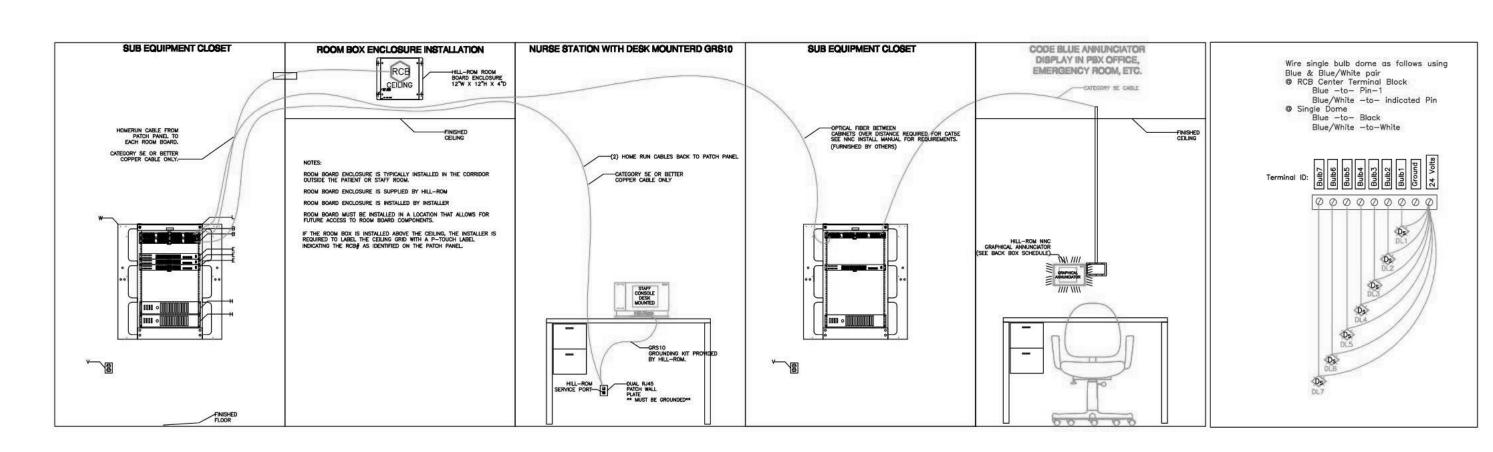
- **COMMUNICATION NOTES:** 1. All cabling must be plenum rated category 5e or better, 24AWG, 4 twisted pair communication cable. Belden 1585A or equivalent is required. Preferred jacket color for nurse call cabling is Seafoam Green.
- All cabling to be field terminated by installing contractor. 3. Location of rough-in for all ASBC must avoid interference or damage from the patient bed.
- 4. All device locations shown are for illustration purposes only, actual locations to be field determined. Hill-Rom requires AMP High Performance (Category 5e or better) RJ45 connectors for all nurse call wiring. Cable must be terminated with approved AMP termination tool and compatible die-set for the RJ45 connector selected. Since Cat5e and Cat6 dies are not cross-compatible, it is critical
- part numbers and compatibility lists. 6. All termination tools are to be supplied by installing contractor. 7. All glass walls, glass doors, and interior windows must be

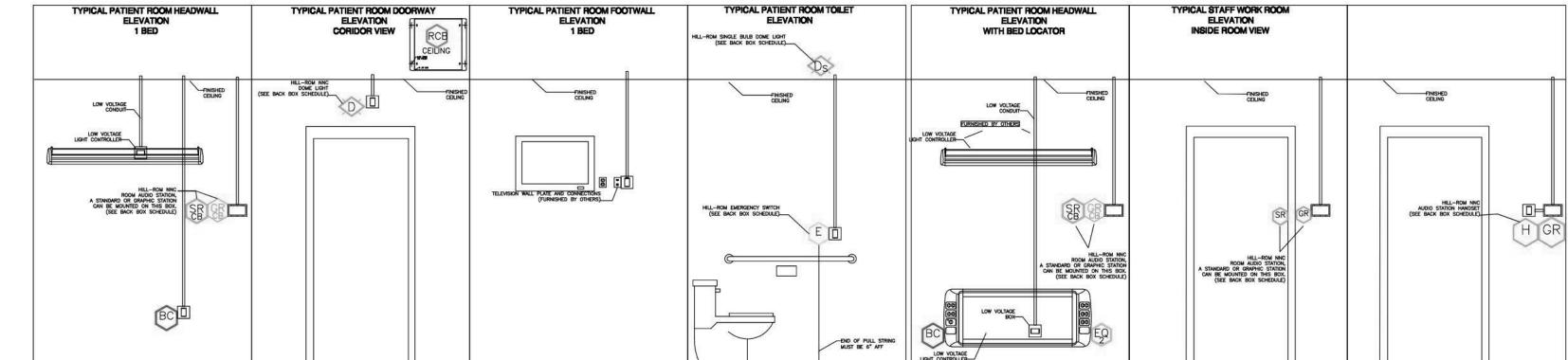
that the correct die be used for the chosen connector. Refer

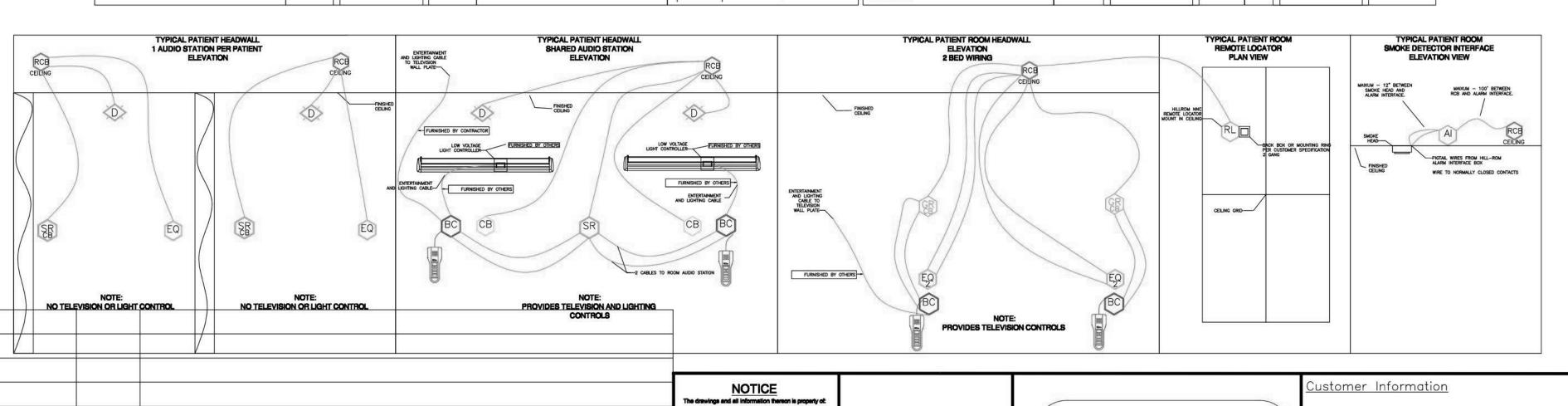
to the TE Connectivity website at www.te.com for current

- 8. Any special requirements/interfaces not explicity defined in
- proposal are not included.
- 9. Unless otherwise noted, all non-standard products are not UL approved.

# TYPICAL PLACEMENT & WIRING ELEVATION DIAGRAMS







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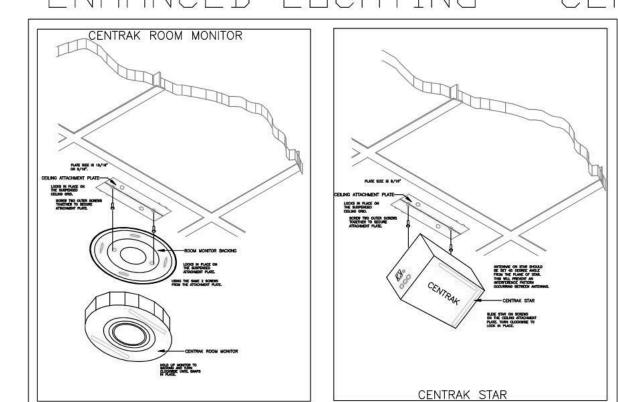
Hill-Rom Company, Inc. on demand.

Device Symbol	Device Name	Part Number	Mounting Options	Back Box Type (UL 514-A LISTED)	Typical Mounting Height (Verify all locations with owner)	Cable requirements
	GRAPHICAL STAFF CONSOLE, DESK MT. (GRS10)	P2500NNC1A00	Desk	1-Gang GW Box - Must be Grounded.	18" AFF (Under desk)	2 cables to PoE Switch
<b>®</b>	AUDIO STATION BED CONNECTOR (ASBC) (standalone)	P2505NNC1A00 (REVA) P2505NNC1B00 (REV B)	Headwall	4" Sq Box 2 1/2 Deep w/1-Gang Mud Ring or 1-Gang 3 1/2 Deep Metal Box	18° AFF	2 Cables to the Patient Station
<b>⟨</b> D⟩	DOME LIGHT	P2506NNC8A00	Wall/Ceiling	4" Sq Box 2 1/6 Deep w/1-Gang Mud Ring	Center Above patient door 90"AFF	1 cable to RCB
⟨Z⟩	ZONE LIGHT	P2506NNC8A00	Wall/Ceiling	4" Sq Box 2 1/6 Deep w/2-Gang Mud Ring	Center Above patient door 90"AFF	1 cable to RCB
Ø\$>	DOME LIGHT, SINGLE BULB	P2506NNC1B00	Wall/Ceiling	4" Sq Bax 2 1/8 Deep w/2-Geng Mud Ring	Center Above patient door 90"AFF	1 cable to RCB
KS	SWITCH, KEY SWITCH, ENABLE/DISABLE	P2514A01	Wall	4" Sq Box 2 1/8 Deep w/2-Gang Mud Ring	Variable	1 cable to RCB
(H)	HANDSET/CRADLE	P2515NNC1A00	Wall	4" Sq Bax 2 ½ Deep w/1-Gang Mud Ring	Height of room station	1 cable to Room Station
(EQ)	EQUIPMENT RECEPTACLE	P2516A01	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	Variable on patient headwall	1 cable to RCB
EQ	EQUIPMENT RECEPTACLE TWO JACK	P2516A07	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	Variable on patient headwall	2 cables to RCB
EQ	EQUIPMENT RECEPTACLE SIX JACK	P2516B06	Wall	3-gang Metal Box 2 1/8" Deep	Variable on patient headwall	1 cable to RCB
СВ	SWITCH, CODE BLUE PUSH BUTTON SWITCH	P2520A07	Wall	4" Sq Box 2 1/2 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
(SE)	SWITCH, STAFF EMERGENCY PUSH BUTTON SWITCH	P2520A08	Wall	4" Sq Box 2 % Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
GP .	SWITCH, CODE PINK PUSH BUTTON SWITCH	P2520A09	Wall	4" Sq Box 2 % Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
DO	SWITCH, DOCTORS ORDERS, WITH CANCEL	P2520A10	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
DO	SWITCH, DOCTORS ORDERS STAT, WITH CANCEL	P2520A11	Wali	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
CW	PULL SWITCH, CW, W/CANCEL	P2520A15	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
CG	PB SWITCH, CODE GREEN W/CANCEL	P2520A16	Wall	4" Sq Box 2 1/8 Deep w/1-Geng Mud Ring	48" AFF	1 cable to RCB
Ē	SWITCH, BATH SWITCH, W/CANCEL, SUPERVISED	P2520B01	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	42" AFF	1 cable to RCB
E	SWITCH, BATH SWITCH, W/O CANCEL, SUPERVISED	P2520B02	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	78" AFF	1 cable to RCB
SE	SWITCH, STAFF EMERGENCY LEVER, SALMON, W/CANCEL, SUPERVISED	P2520B03	Wall	4" Sq Box 2 1/2 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
ÇP.	SWITCH, CODE PINK SWITCH W/O CANCEL	P2520B04	Wall	4" Sq Box 2 % Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
СВ	SWITCH, CODE BLUE SWITCH W/CANCEL	P2520B06	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
PC	PB SWITCH PUSH TO CALL WITH CANCEL	P2520B12	Wall	4" Sq Box 21/2 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
RC	PB SWITCH, CLEAN W / CANCEL	P2520B13	Wall	4" Sq Box 2 ½ Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
RD	PB SWITCH, NEEDS CLEAN W / CANCEL	P2520B14	Wall	4" Sq Box 2 1/8 Deep w/1-Gang Mud Ring	48" AFF	1 cable to RCB
RL	RLR, REMOTE LOCATOR RECEIVER	P2540B02	Ceiling	4" Sq Box 21/2 Deep w/2-Gang Mud Ring	,,,,,,	1 cable to RCB
Al	SYSTEM ALARM INTERFACE MODULE, W/BOX W/ PIGTAILS	P2545A01	Above Ceiling	4" Sq Box 21/8"Deep w/ Blank Cover		1 cable to RCB
RAD	RAD - REMOTE AUDIO DEVICE	P2594NNC4A10	Wall	1 or 2-gang Metal Box	48"AFF	1 cable to RCB
\$R	VISITOR STATION - STANDARD ROOM STATION W/VISITOR (SRS)	P2594NNC1A00 (REVA) P2594NNC1B00 (REV B)	Wall	3-gang Metal Box 2 1/8" Deep	54" AFF or 48" to comply w/ OSHPD and ADA	1 cable to RCB
SR	STAFF STATION - STANDARD ROOM STATION W/O CODE (SRS)	P2594NNC1A01 (REVA) P2594NNC1B01 (REV B)		3-gang Metal Box 2 1/8" Deep	54" AFF or 48" to comply w/ OSHPD and ADA	1 cable to RCB
SR	PATIENT STATION - STANDARD ROOM STATION W/CODE (SRS)	P2594NNC1A11 (REVA) P2594NNC1B11 (REV B		3-gang Metal Box 2 1/8" Deep	54" AFF or 48" to comply w/ OSHPD and ADA	1 cable to RCB
GR	GRAPHICAL ROOM STATION (GRS-5) - STAFF	P2594NNC2A00 (REV A) P2594NNC2B00 (REV B)	2000 (Carlos)	3-gang Metal Box 2 1/8" Deep	54" AFF or 48" to comply w/ OSHPD and ADA	1 cable to RCB
GR	GRAPHICAL ROOM STATION (GRS-5) - PATIENT	P2594NNC2A11 (REV A) P2594NNC2B11 (REV B)	\$1000000000000000000000000000000000000	3-gang Metal Box 2 1/8" Deep	54" AFF or 48" to comply w/ OSHPD and ADA	1 cable to RCB
S WIT WILL	GRAPHICAL ANNUNCIATOR (GRS-10) - NO HS	P2594NNC3A00	Wall	3-gang Metal Box 2 1/8" Deep	54" AFF or 48" to comply w/ OSHPD and ADA	1 cable to RCB
RCB	ROOM CONTROL BOARD (RCB) BELOW CEILING	P2599NNC1A00	Below Ceiling	3-gang GW Box 3 1/2" Deep	Surface mount above ceiling line	1 cable to PoE switch
RCB	ROOM CONTROL BOARD (RCB) ABOVE CEILING	P2599NNC1B00	Above Ceiling	Hill-Rom supplied 12"x 12" x 4" Steel Box Enclosure	Variable	1 cable to PoE switch
POE-24	POE SWITCH	P2519NNC1A24	Rack/Shelf	Rack Mounts into standard 19" rack. 1 Unit		See Rack-Riser diagram for d

NaviCare Nurse Call

NaviCare Nurse Call RTLS							
DEVICE SYMBOL	CENTRAK NAME	PART #	BRACKETS	WORKING LOCATION	POWER	WORKING FUNCTION	
S	CenTrak Star	CEN-ITK-103		Ceiling	POE.	Used to interface the tags and monitors to the IT network.	
S	Star—Timing	CEN-ITK-123		Equipment Closet	to ethernet. One needed per sub net.	Keeps everyone from talking at once.	
RM	Centrak Room Monitor	CEN-ITK-313	ITA-361 9/16" ITA-362 15/16" ITA-363 5/16"	Ceiling / Wall	Battery Powered	Required to gain visibility to tags and keep a very accurate local location accuracy using IR siginaling.	
(X)	Virtual Wall Monitor (Single)	CEN-ITK-323	ITA-371 9/16" ITA-372 15/16"	Ceiling / Wall	Battery Powered	Locating tagged assets or people that are geared to semi—private rooms and bays typically found in ED or OR units. The area of coverage is not effected by physical walls.	
BM	Monitor Drop Box	CEN-ITK-363		Wall	Battery Powered		
DIM	Hygiene Monitor (Dim)	CEN-ITK-373		Mounts to soap dispenser, pump, and or sink.	Battery Powered	Automatically tracks hand hygiene, 24/7 at the caregivers level. Collects data on all events at hand washing stations.	
GEN	IR Regenerator	CEN-ITA-359		Ceiling / Wall		If over 5 Virtual Wall Manitors are installed, a IR Regenerator needs to be install after the 4th VW Monitor in Series.	

# ENHANCED LOCATING - CENTRAK



NOTE - ALL METAL BOXES MUST BE GROUNDED, IF THE CONDUIT SYSTEM IS NOT GROUNDED, THE BOXES MUST BE GROUNDED BACK TO THE BUILDING STEEL. MASONERY BOXES ARE NOT REQUIRED, ALL BOXES ARE REQUIRED TO BE METAL.

> THIS PLAN IS FOR REFERENCE ONLY. THIS IS DESIGNED TO SHOW DIAGRAMS THAT MAY HELP IN THE CONSTRUCTION PROCESS.

> > <u>Drawing Information</u>

Project Information

NNC - Centrak-Details/Backbox Rev 1

Lab01040 Rev1.dwg
Sheet Number <u>Total Sheets</u> **Drawing Scale** 

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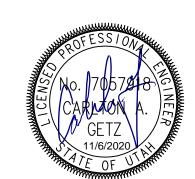


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Project Designer	ERIC MEUB
Project Architect	FRANK PENROSE
Landscape Architect	ARCSITIO
Civil Engineer	GREAT BASIN
Structural Engineer	REAVELEY
Mechanical Engineer	VAN BOERUM & F
Electrical Engineer	SPECTRUM
Plumbing Engineer	VAN BOERUM & F

Interior Designer ROBERT GRIESCHE **Equipment Planner** 

**Sheet Reviewer** DESCRIPTION

Wayfinding



HILLROM SYMBOLS AND DETAILS

**EYC602** 

100% Construction Documents

Revision Revised Comments

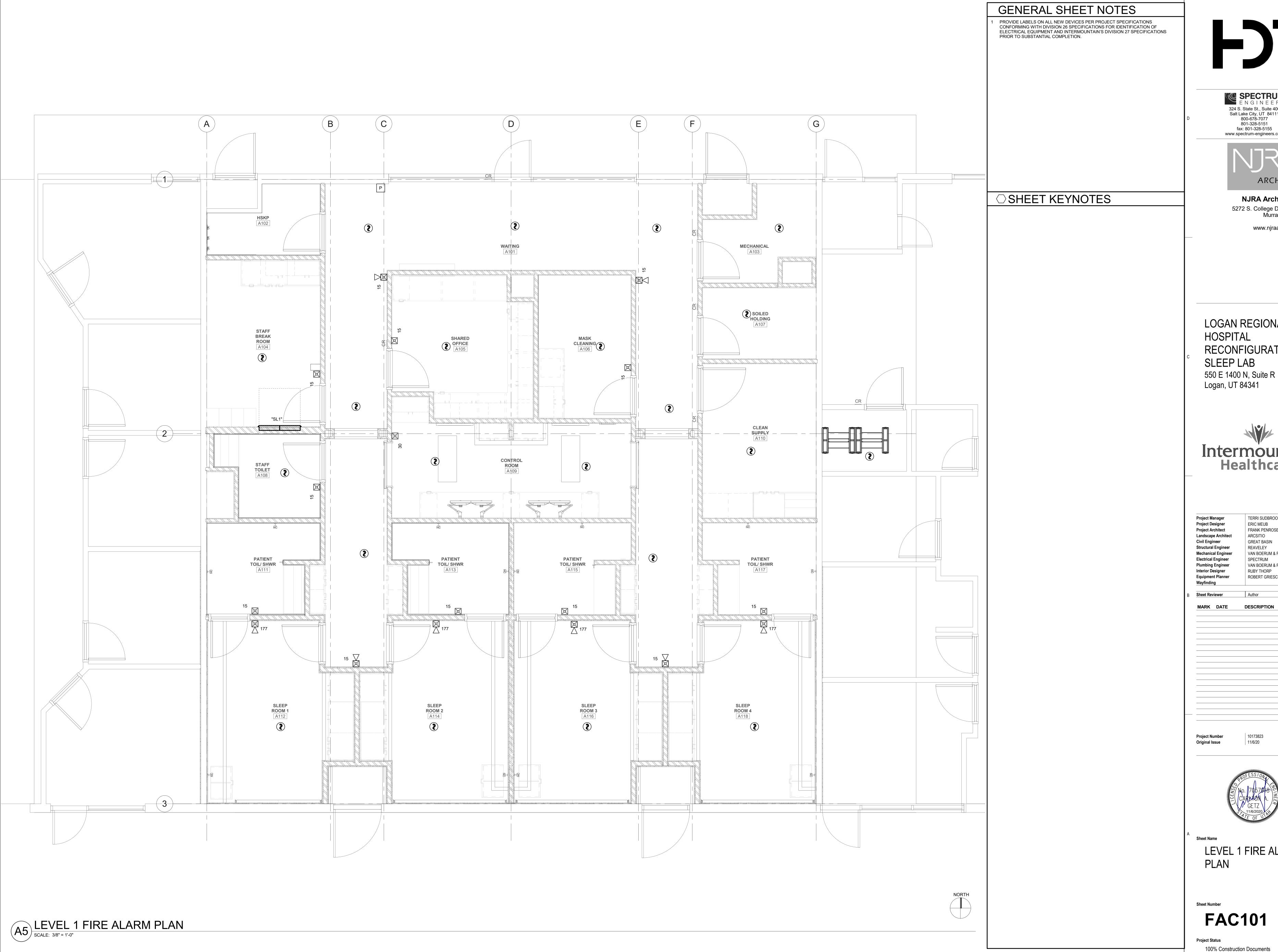
Revision History

HILL-ROM IT SOLUTIONS 1225 CRESENT GREEN SUITE 200 **CARY, NC 27518** www.hill-rom.com

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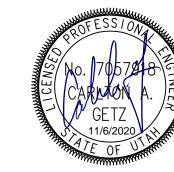
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TERRI SUDBROOK

RUBY THORP ROBERT GRIESCHE



LEVEL 1 FIRE ALARM

**FAC101**