Intermountain Healthcare **Riverton Hospital Endoscopy Room #4** 3741 West 12600 South Riverton, UT 84065

Construction Documents

DESIGN TEAM

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INTERIM LIFE SAFETY MEASURES	PROJECT DESCRIPTION		
 IMPLEMENTATION OF INTERIM LIFE SAFETY MEASURES (ILSM) IS REQUIRED IN OR ADJACENT TO ALL CONSTRUCTION AREAS AND THROUGHOUT BUILDINGS WITH EXISTING LSC DEFICIENCIES. ILSM APPLY TO ALL PERSONNEL, INCLUDING CONSTRUCTION WORKERS, MUST BE IMPLEMENTED UPON PROJECT DEVELOPMENT, AND CONTINUOUSLY ENFORCED THROUGH PROJECT COMPLETION. ILSM ARE INTENDED TO PROVIDE A LEVEL OF LIFE SAFETY COMPARABLE TO THAT DESCRIBED IN CHAPTERS 1 THROUGH 7, 31 AND THE APPLICABLE OCCUPANCY CHAPTERS OF THE LSC. EACH ILSM ACTION MUST BE DOCUMENTED THROUGH WRITTEN POLICIES AND PROCEDURES. EXCEPT AS STATED BELOW, FREQUENCIES FOR INSPECTION, TESTING, TRAINING, AND ILSM CONSIST OF THE FOLLOWING ACTIONS: 1 ENSURING EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. PERSONNEL SHALL RECEIVE TRAINING IF ALTERNATIVE EXITS MUST BE DESIGNATED. BUILDINGS OR AREAS UNDER CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS IN CONSTRUCTION AREAS MUST BE INSPECTED DAILY. 2 ENSURING FREE AND UNOBSTRUCTED ACCESS TO EMERGENCY DEPARTMENTS/ SERVICES AND FOR EMERGENCY FORCES. 3 ENSURE FIRE ALARM, DETECTION, AND SUPPRESSION SYSTEMS ARE NOT IMPAIRED. A TEMPORARY, BUT EQUIVALENT, SYSTEM SHALL BE PROVIDED WHEN ANY FIRE SYSTEM IS IMPAIRED. TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE TIGHT AND BUILT OF NONCOM OR LIMITED COMBUSTIBLE MATERIALS THAT WILL NOT CONTRIBUTE TO THE 	 THIS PROJECT INCLUDES THE FOLLOWING SCOPE A INSTALLATION OF TWO NEW GETINGE MONI THE CEILING OF THE EXISTING ENDOSCOPY RE STRUCTURE, MED GAS, ELECTRICAL ITEMS ABO B. REPLACE EXISTING CEILING WITH GYPSUM BO NOTED IN THE CONSTRUCTION DOCUMENTS. 	TOR AND EQUIF DOM #4. PROV DVE CEILING.	IDE ASSOCIATED
 5 PROVIDING ADDITIONAL FIRE-FIGHTING EQUIPMENT AND USE TRAINING OF PERSONNEL. 			
6 PROHIBITING SMOKING IN ACCORDANCE WITH MA.1.3.15 AND IN OR ADJACENT TO ALL CONSTRUCTION AREAS.	APPROVALS		
7 DEVELOPING AND ENFORCING STORAGE, HOUSEKEEPING, AND DEBRIS REMOVAL PRACTICES THAT REDUCE THE FLAMMABLE AND COMBUSTIBLE FIRE LOAD OF THE BUILDING TO THE LOWEST LEVEL NECESSARY FOR DAILY OPERATIONS.			
 8 CONDUCTING A MINIMUM OF TWO FIRE DRILLS PER SHIFT PER QUARTER. 9 INCREASING HAZARD SURVEILLANCE OF BUILDINGS, GROUNDS, AND EQUIPMENT WITH SPECIAL ATTENTION TO EXCAVATIONS, CONSTRUCTION AREAS CONSTRUCTION STORAGE, AND FIELD OFFICES. 	Approvers Name, Title		Date
10 TRAINING PERSONNEL WHEN STRUCTURAL OR COMPARTMENT FEATURES OF FIRE SAFETY ARE COMPROMISED.	Approvers Name, Title		Date
11 CONDUCTING ORGANIZATION WIDE SAFETY EDUCATION PROGRAMS TO ENSURE AWARENESS OF ANY LSC DEFICIENCIES, CONSTRUCTION HAZARDS, AND THESE ILSM.			
	Approvers Name, Title		Date
	Approvers Name, Title		Date
INFECTION CONTROL RISK ASSESSMENT	ABBREVIATIONS		
CONSTRUCTION ACTIVITY TTE Type D: Major dots of mechanical variants includes, but not limited for includes, but not limited for the but not includes includes in limited for limited for interfection CONTROL FROCCOCOS During Construction (Closs IV): Intercion Control, Procecocol During Construction (Closs IV): Phase deals only in lightly covered containent. Construct barry is to prevent dual on other containing migration prior to beginning work: Construct con use control mode for entrol minimum migration prior to beginning work: Construct con use control mode for entrol minimum enter the before entering the nogition. Construct con use control mode for entrol minimum enter the before mode (rec. Yean work (rec. Yean work (rec. Yean work (rec.) Yean induce control mode for enter the mode for enter the before mode (rec.) Yean work	& AND @ DIAMETER (E), EXIST. EXISTING (N) N NEW d PENNY # POUND OR NUMBER A A AC ACOUSTIC ADD ADDENDUM A/C AR CONDITIONING ALT. ALTERNATE A ALMCHOR BOLT ARCH ARCHTECT(URAL) ASP. ASPHALT B BSMT. BASEMENT BLMCHMARK BLKG. BLOCKING B.O. BOORD OF BLDG. BUILDING C CATCH BASIN CL. CERTER LINE C.T. CERAMICTILE CH CHANNEL C.O. CELAN OUT CLR. CLART CLONETE CONC. CONCRETE COND. CONTROLOR CONT. CONTROLON CONT. CONTROLON CONT. CONTROLON CONT. CONTROLON CONT. CONTROLON <t< th=""><th>ELEV. EQ. EQUIP. EXH. EXIST. E.J. EXT. F F FT. FV/F.V. FIN. F.E. F.E.C. FIXT. FL. G GALV. GA. G.C. G.S.N. GL. GD. GRL. GRD. GRD. GRD. GRD. GRD. H HDW. HDWD. HTR. HT. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. H.M. HORIZ. H.B. H.W. H.M. H.M. H.M. H.M. H.M. H.M. H.M</th><th>TATING THAT THE SIGN. WORK L THE BUILDING CTURAL AND THEIR NSTRUCTED TO RESIST CE 7-05. REFERENCE</th></t<>	ELEV. EQ. EQUIP. EXH. EXIST. E.J. EXT. F F FT. FV/F.V. FIN. F.E. F.E.C. FIXT. FL. G GALV. GA. G.C. G.S.N. GL. GD. GRL. GRD. GRD. GRD. GRD. GRD. H HDW. HDWD. HTR. HT. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. HR. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. HORIZ. H.B. H.W. H.M. H.M. HORIZ. H.B. H.W. H.M. H.M. H.M. H.M. H.M. H.M. H.M	TATING THAT THE SIGN. WORK L THE BUILDING CTURAL AND THEIR NSTRUCTED TO RESIST CE 7-05. REFERENCE

VICINITY MAP

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	INT. INV.	INTERIOR INVERT	P.S.F.	POUNDS PER SQUARE FOOT	V.C.P.	VITREOUS CLAY PIPE	
			R		W		
TE VENT	J		RAD.	RADIUS	W.C.	WATER CLOSET	
	JAN.	JANITOR	REC.	RECOMMENDATION	W.H.	WATER HEATER	
	JT.	JOINT	REG.	REGISTER	W.R.	WATER RESISTANT	
	JST.	JOIST	REQ'D	REQUIRED	W.P.	WATERPROOF	
			R.A.	RETURN AIR	W.W.F.	WELDED WIRE FABRIC	
OLER	L		REV.	REVISION	W.F.	WIDE FLANGE	
	LAM.	LAMINATED	R.D.	ROOF DRAIN	WDW.	WINDOW	
	LDG.	LANDING	RFG.	ROOFING	W/	WITH	
	LAV.	LAVATORY	RM.	ROOM	W/O	WITHOUT	
	1 T		DOLL	DOULOU		WOOD	

RGH. ROUGH

RND. ROUND

SCR. SCREW

SECT. SECTION

SELECT

SHEET

SIMILAR

sliding

Smooth

SPEC. SPECIFICATION

SPLASH

SQUARE

STRUC. STRUCTURE S.A. SUPPLY AIR

SUSP. SUSPENDED

sw.bd. switchboard

STAINLESS STEEL standard

TELCO TELEPHONE COMPANY

T.G. TEMPERED GLASS

T&B TOP & BOTTOM

T.O.P. TOP OF PARAPET

T.O. TOP OF

T.O.C.TOP OF CURBT.O.D.TOP OF DECK

T&G TONGUE & GROOVE

S

SEL.

SHT. SIM.

SLDG.

SM.

SPL.

SQ.

S.S.

STD.

Т

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/ATION JAL JIPMENT iaust Sting ANSION JOINT ERIOR

L.W.C. LIGHT WEIGHT CONCRETE

MACHINE BOLT

MANUFACTURER

MASONRY OPENING

LT. LIGHT

LVR. LOUVER

MAT'L MATERIAL

MAX. MAXIMUM

MIN. MINIMUM

MLDG. MOLDING

MULL. MULLION

NOM. NOMINAL

O.C. ON CENTER

MECH. MECHANICAL

METAL

N.G. NATURAL GRADE

N/A NOT APPLICABLE

N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE

O.D. OUTSIDE DIAMETER

O.F.S. OVERFLOW SCUPPER

INSTALLED

O.R.D. OVERFLOW ROOF DRAIN

O.F.C.I. OWNER FURNISHED, CONTRACTOR

O.F.O.I. OWNER FURNISHED, OWNER INSTALLED TYP. TYPICAL

Μ

M.B.

MFR.

M.O.

MTL.

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D VERIFY ISH(ED) E EXTINGUISHER E EXTINGUISHER CABINET JRE Shing

lvanized UGE VERAL CONTRACTOR NERAL STRUCTURAL NOTES **NDE**

DILOW METAL DRIZONTAL DSE BIB DT WATER DUR CH SIDE DIAMETER SULATION	PT. PAINT PTD. PAINTED PR. PAIR PNL. PANEL d PENNY P.L. PLASTIC LAMINATE PL. PLATE PLBG. PLUMBING P.S.I. POUND PER SQUARE INCH	U U.N.O. V V. V.T.R. VERT. V.G. VEST. V.C.T.	UNLESS NOTED OTHERWISE VENT VENT THROUGH ROOF VERTICAL VERTICAL GRAIN VESTIBULE VINYL COMPOSITION TILE
	SPECIAL INSPECTIONS		DEFINITIONS
FICIAL FOR NG THAT THE N. WORK E BUILDING AL D THEIR SUCTED TO RESIST 7-05. REFERENCE	SEE STRUCTURAL DRAWINGS FOR SPECIAL INSPECTIONS REQUIRED.		 GENERAL: BASIC CONTRACT DEFINITIONS ARE INCLUDED IN TH CONTRACT. "APPROVED": WHEN USED TO CONVEY ARCHITECT'S ACTION OF SUBMITTALS, APPLICATIONS, AND REQUESTS, "APPROVED" IS LIDUTIES AND RESPONSIBILITIES AS STATED IN THE CONDITIONS OF 3. "DIRECTED": A COMMAND OR INSTRUCTION BY ARCHITECT. CO "REQUESTED," "AUTHORIZED," "SELECTED," "REQUIRED," AND "PE SAME MEANING AS "DIRECTED." "INDICATED": REQUIREMENTS EXPRESSED BY GRAPHIC REPRESS WRITTEN FORM ON DRAWINGS, IN SPECIFICATIONS, AND IN CO DOCUMENTS. OTHER TERMS INCLUDING "SHOWN," "NOTED," "S "SPECIFIED" HAVE THE SAME MEANING AS "INDICATED." "REGULATIONS": LAWS, ORDINANCES, STATUTES, AND LAWFUL AUTHORITIES HAVING JURISDICTION, AND RULES, CONVENTION
AND FIRE CTOR TO			 WITHIN THE CONSTRUCTION INDUSTRY THAT CONTROL PERFOR 6. "FURNISH": SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERAT 7. "INSTALL": UNLOAD, TEMPORARILY STORE, UNPACK, ASSEMBLE ANCHOR, APPLY, WORK TO DIMENSION, FINISH, CURE, PROTE OPERATIONS AT PROJECT SITE.
l drawings).			 "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FO "PROJECT SITE": SPACE AVAILABLE FOR PERFORMING CONSTREMENT OF PROJECT SITE IS SHOWN ON DRAWINGS AND MAY IDENTICAL WITH THE DESCRIPTION OF THE LAND ON WHICH PI

n the conditions of the TION ON CONTRACTOR'S " IS LIMITED TO ARCHITECT'S ONS OF THE CONTRACT.

WD. WOOD

- T. OTHER TERMS INCLUDING "PERMITTED" HAVE THE
- PRESENTATIONS OR IN)," "SCHEDULED," AND
- WFUL ORDERS ISSUED BY ENTIONS, AND AGREEMENTS ERFORMANCE OF THE WORK. ' FOR UNLOADING, PERATIONS.
- MBLE, ERECT, PLACE, ROTECT, CLEAN, AND SIMILAR
- FOR THE INTENDED USE. DNSTRUCTION ACTIVITIES. THE MAY OR MAY NOT BE CH PROJECT IS TO BE BUILT.

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Telecom Schedules and Notes

Telecom Conduit Riser Diagrams

Telecom Details

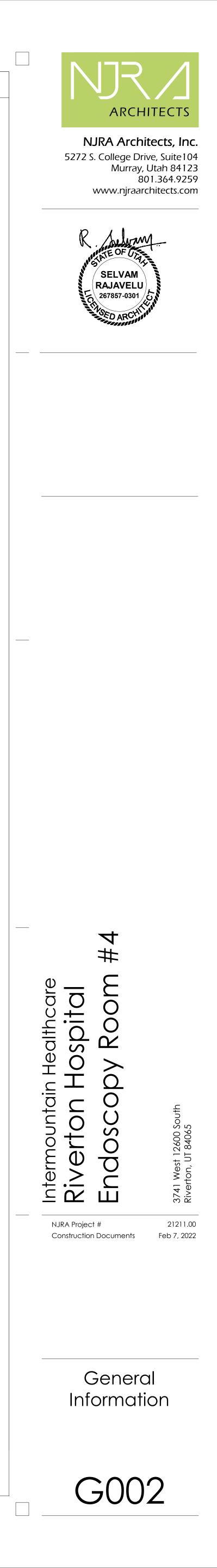
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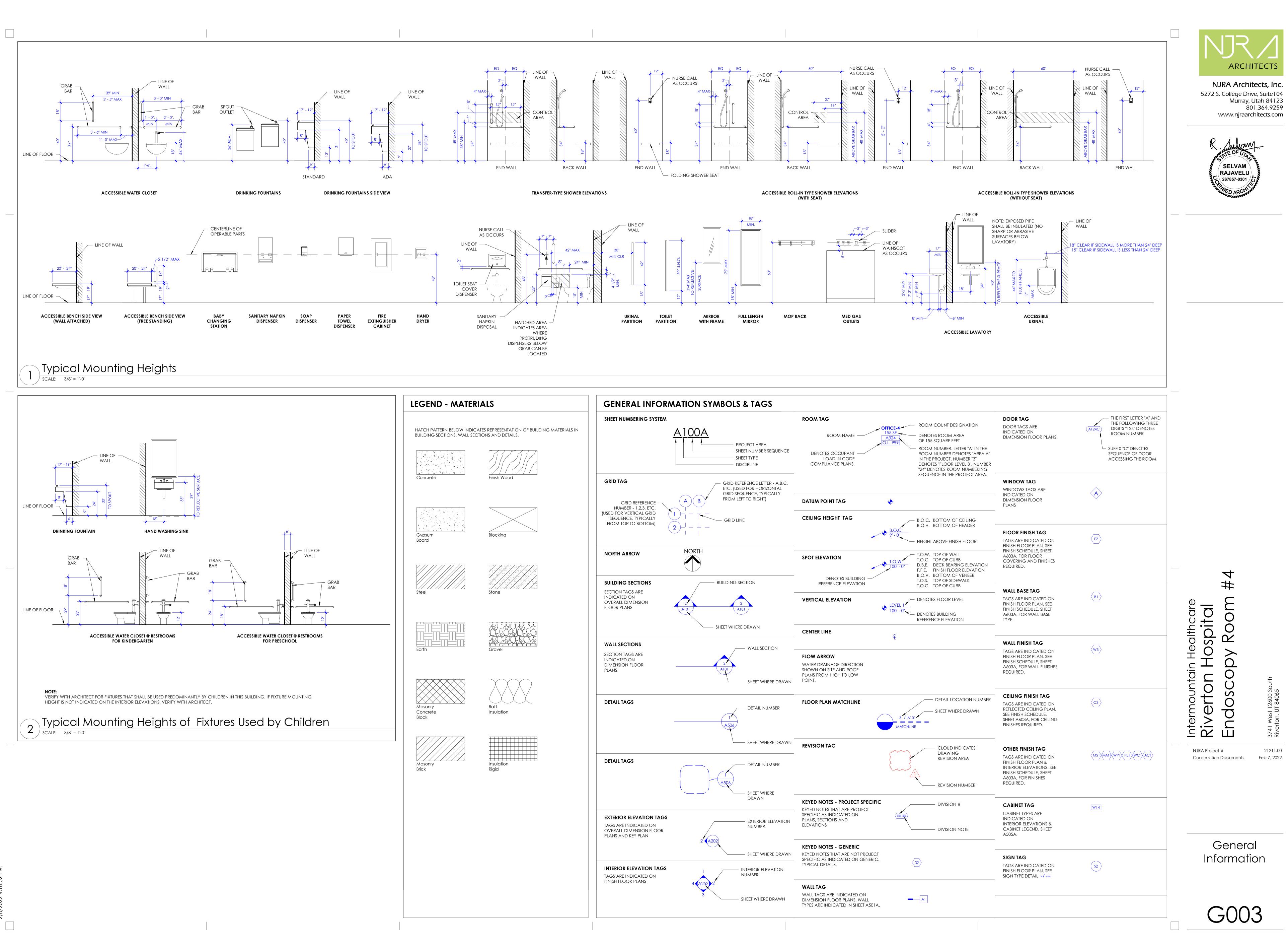
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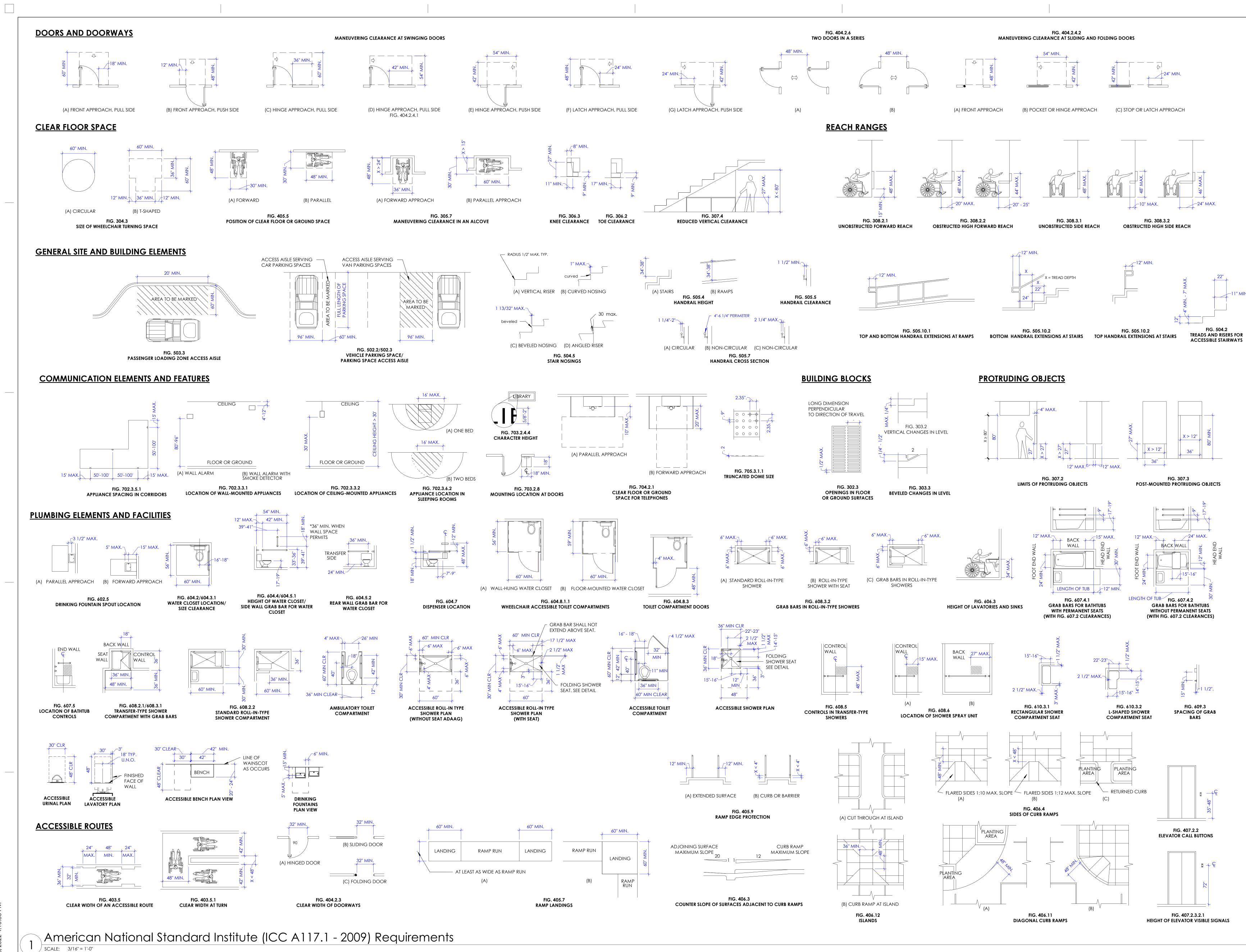
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> EQUIPMENT EQ101 Equipment Drawings EQ102 Equipment Drawings

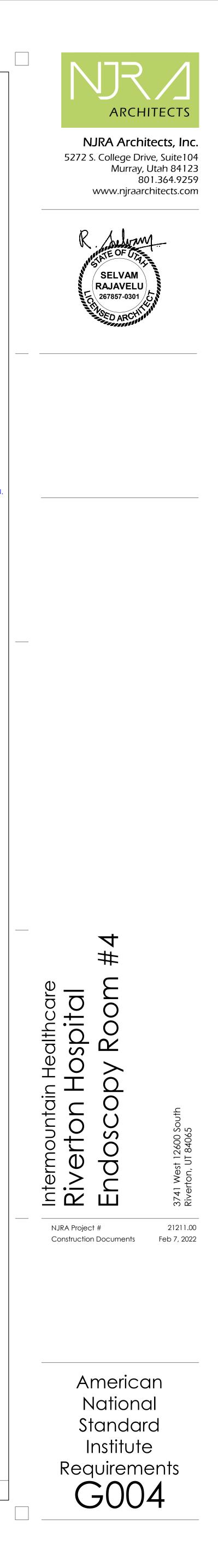
EQ103	Equipment Drawings
EQ104	Equipment Drawings



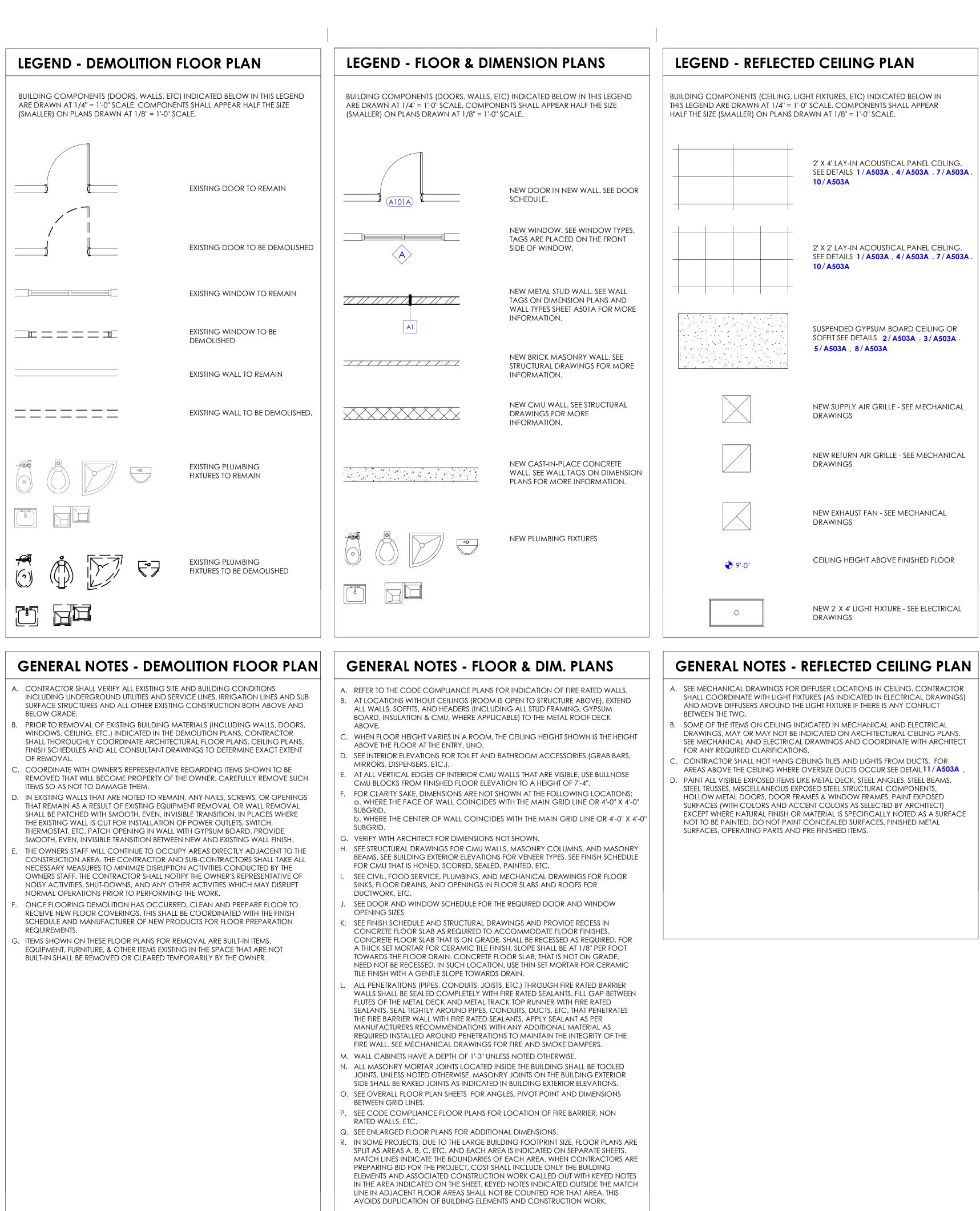








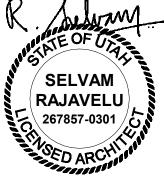
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	Q	FIRE PROOFING MATERIAL TO MATCH ADJACENT EXISTING MATERIAL.
	œ.	RETARDANT PRESSURE-TREATED, AS PER I.B.C. CURRENT VERSION. SEE RELEVANT DETAILS.
ONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR A COMPLETE LIST (R.	CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS AND OTHER NOTES.
ET/).).	ASSE ABB ARC THE INST MAII MEN BEAJ FIRE ALL RETA DETA
	•	CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR A COMPLETE LIST OF
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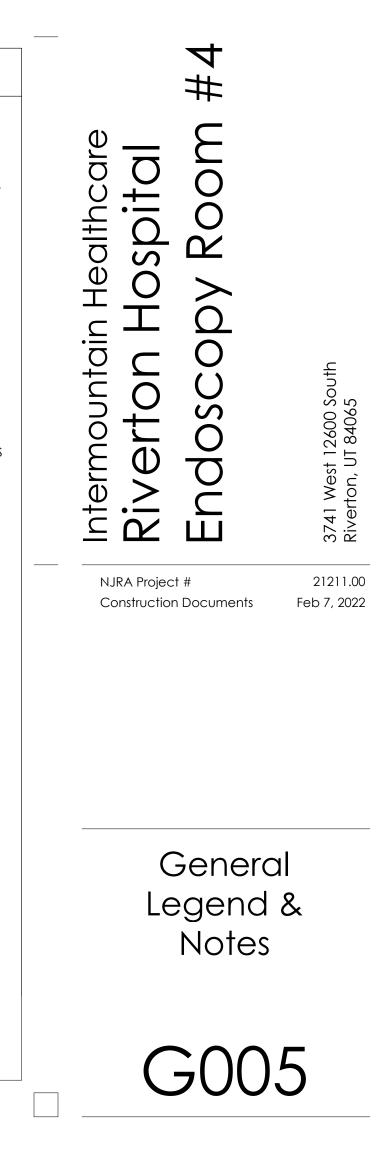


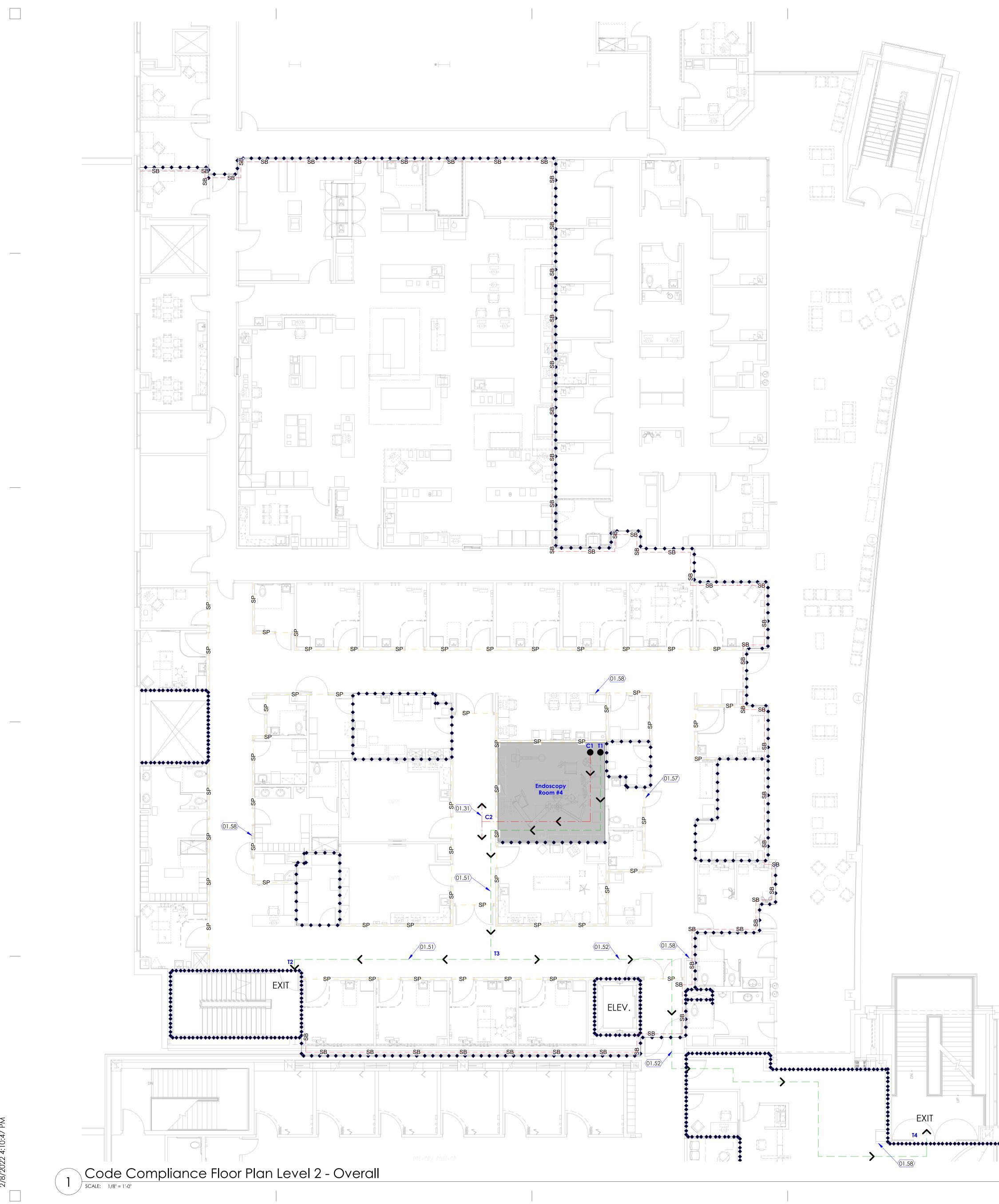
GENERAL NOTES - INTERIOR ELEVATIONS

- A. PROVIDE LOCKS FOR CABINETS AS INDICATED ON THE CABINET LEGEND ON SHEET A505A AND IF INDICATED ON INTERIOR ELEVATIONS. B. IN ROOMS WHERE CABINETS ARE REQUIRED TO BE LOCKED, PROVIDE LOCKS
- OPERABLE WITH SINGLE KEY. C. FOR TYPICAL MOUNTING HEIGHTS, SEE SHEET G003. FOLLOW THE HEIGHT UNLESS
- NOTED OTHERWISE IN INTERIOR ELEVATIONS. VERIFY WITH ARCHITECT FOR ITEMS NOT INDICATED. D. CONTRACTOR SHALL VERIFY WITH OWNER FOR OWNER FURNISHED CONTRACTOR
- INSTALLED ITEMS AND PROVIDE BACKING IN WALL AS REQUIRED FOR INSTALLATION. INTERIOR ELEVATIONS OF CERTAIN ROOMS ARE NOT DRAWN AND ARE NOTED AS SIMILAR ELEVATIONS OF ROOMS THAT ARE INDICATED IN THE DRAWINGS.
- . CONTRACTOR SHALL PROVIDE FILLER PANELS (PLASTIC LAMINATE WRAPPED OVER 5/8" PARTICLE BOARD) WHEREVER GAP OCCURS BETWEEN CABINETS AND WALL. G. SEE FINISH FLOOR PLANS AND FINISH SCHEDULE A603A FOR WALL, CABINET AND
- COUNTERTOP FINISHES. H. SEE SHEET A505A FOR CABINET LEGEND (TYPES B1, W1, T1, ETC.). UNLESS NOTED OTHERWISE, ALL THE CABINETS AND COUNTERTOPS IN EACH ROOM SHALL BE OF THE
- SAME FINISH (PL1, PL2, SS1, ETC.) AS INDICATED ON THE INTERIOR ELEVATION OF EACH ROOM. WHERE MULTIPLE FINISHES ARE REQUIRED FOR CABINETS, WALLS, ETC. IN THE ROOM, EACH FINISH IS INDICATED SEPARATELY. CONTACT ARCHITECT FOR REQUIRED CLARIFICATIONS. COUNTERTOPS ARE TYPICALLY SUPPORTED BY WALLS AND BASE CABINETS. IN PLACES
- WHERE COUNTERTOP SPAN EXCEEDS 4' 0", STEEL SUPPORTS SHALL BE PROVIDED AS INDICATED IN DETAILS -/--- AND -/---AS INDICATED ON INTERIOR ELEVATIONS, WALL CABINETS AT CERTAIN LOCATIONS
- MAY REQUIRE A VERTICAL OR A SLOPED FASCIA PANEL. AN ENLARGED FLOOR PLAN HAS BEEN INCLUDED ALONG WITH INTERIOR ELEVATIONS FOR ROOMS THAT ARE COMPLEX IN DESIGN. SUCH COMPLEX ROOMS ARE INDICATED ON THE A400 SERIES SHEETS (STARTING WITH SHEET A401). ENLARGED FLOOR PLANS ARE NOT SHOWN FOR ROOMS THAT ARE SIMPLE IN DESIGN. INTERIOR
- ELEVATIONS OF SUCH SIMPLE ROOMS ARE INDICATED ON THE A250 SERIES SHEETS (STARTING WITH SHEET A251).
- FOR ALL CABINETS PROVIDE BACKING IN WALL AS PER DETAIL 3/A505B.









LEGEND

Symbol	DESCRIPTION	FIRE RESISTANCE RATING	DOOR FIRE RATING	WINDOW FIRE RATING
•	COMMON PATH OF TRAVEL	N/A	N/A	N/A
$\bullet \rightarrow$	TRAVEL DISTANCE	N/A	N/A	N/A
ROOM NAME SQ. FT. ROOM # O.L. #	OCCUPANT LOAD	N/A	N/A	N/A
SP	SMOKE PARTITION WALL	0 HOUR	SMOKE	Smoke
SB	SMOKE BARRIER WALL	1 HOUR	1/3 HOUR	1/3 HOUR
	1 HOUR FIRE RATED WALL	1 HOUR	3/4 HOUR	3/4 HOUR
** ** ** **	2 HOUR FIRE RATED WALL	2 HOUR	1-1/2 HOUR	1-1/2 HOUR

KEYED NOTES

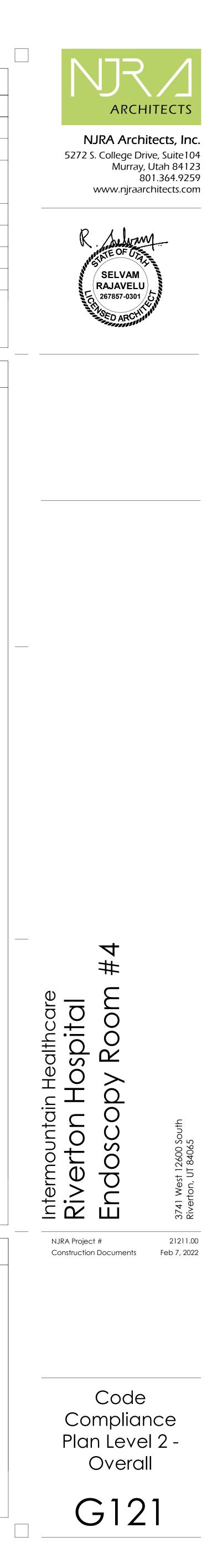
01.31 LINE AND ARROW INDICATES "COMMON PATH OF TRAVEL" DIRECTION AND DISTANCE OF 33' BETWEEN POINTS C1 AND C2. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 75'. 01.51 LINE AND ARROW INDICATES "TRAVEL DISTANCE" OF 98' BETWEEN POINTS TI AND T2. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 200'. 01.52 LINE AND ARROW INDICATES "TRAVEL DISTANCE" OF 123' 10" BETWEEN POINTS T3 AND T4. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 200'. 01.57 CONSTRUCTION ACCESS SUBJECT TO APPROVAL BY OWNER AND INFECTION Control nurse. This door shall remain closed at all time to MAINTAIN THE NEGATIVE PRESSURE AT THE ANTE-ROOM AND THE CONSTRUCTION AREA. 01.58 EXISTING FIRE EXTINGUISHER AND CABINET TO REMAIN. PROTECT DURING CONSTRUCTION.

IBC CODE REVIEW

APPLICABLE CODES International Existing Building International Fire Code (IFC) International Mechanical Cod International Plumbing Code ANSI/ASHRAE/IES Standard 90 National Electric Code (NEC) NFPA 101 ANSI 117.1	de (IMC) (IPC) .1	2018 2018 2018 2018 2010 2021 2018 2009		
2018 IEBC Compliance Optior Alteration Level 2".	n selected for this	project is: "	Work Area Method-	
<u>Project Description</u> Project includes remodel of ex ceiling mounted booms and a electrical work.				
OCCUPANCY:	I-2 (Hospital)			
CONSTRUCTION TYPE:	Type I-A			
OTHER CODE REQUIREMENTS Travel Distance: Common Path of Travel: Minimum Corridor Width: Roof Covering Classification:	200 Feet (I-2) 75 Feet (I-2) 8 Feet (I-2) A			
AUTOMATICALLY SPRINKLED Building is equipped with an c	utomatic fire ext	inauishina sr	prinkler system.	
OCCUPANT LOADS: Business: Classroom: Platform / Stage: Assembly (Unconcentrated): Storage / Elec. / Mech.: Other Areas:		100 Sq. 20 Sq. F 15 Sq. F 15 Sq. F 300 Sq.	Ft. Gross per Occupa t. Net per Occupant t. Net per Occupant t. Net per Occupant Ft. Gross per Occupant t. Net per Occupant	ant
Total Occupant Load (Per Cod	de):	4 Occu	pants	
Level 2 Remodel Area (Total):	373 sf.			
FIRE RESISTANCE RATING FOR			<mark>1)</mark> Provided 3	
Structural Frame:	Rec	<u>quired</u> 3		
	Rec	<u>quired</u> 3	Provided 3	
Structural Frame: Bearing Walls: Exterior	Rec	<u>quired</u> 3 here suppor 3	Provided 3 ting the roof) 3	
Structural Frame: Bearing Walls: Exterior Interior Non-Bearing Walls: Exterior	Rec	<u>quired</u> 3 here suppor 3 3	Provided 3 ting the roof) 3 3	
Structural Frame: Bearing Walls: Exterior Interior Non-Bearing Walls: Exterior Interior Floor Construction	<u>Rec</u> (2 hr, wi	<u>auired</u> 3 here suppor 3 3 0 0 0 2 1 1/2 <u>E 509)</u> automatic s	Provided 3 ting the roof) 3 3 0 0 2	limit
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Structural Frame: Bearing Walls: Exterior Interior Non-Bearing Walls: Exterior Interior Floor Construction Roof Construction INCIDENTAL ACCESSORY OCC Boiler Room Rooms Containing Fire Pumps Contractor is required to main occurs during construction. Po	Rec (2 hr, w) 2 hr, w) 0 Hour (w/ a the transfer 1 Hour (w/ a tain fire proofing	<u>auired</u> 3 here suppor 3 3 0 0 2 1 1/2 509) automatic s of smoke automatic s	Provided 3 ting the roof) 3 3 0 0 2 1 1/2 prinkler system), but 1 prinkler system - 913.2 hg structural steel wh	2.1) nere

GENERAL





1. Design Criteria

1.1.	Governing Building Code	
	A. Risk Category	

- 1.2. Floor Live Loading A. IHC Standard . 100 psf Live Load 1.3. Earthquake A. Seismic Design Category...
- B. Spectral Response Accelerations $S_{S} = 1.160 \text{ g}$ $S_{DS} = 0.801 \text{ g}$ $S_1 = 0.416 g$ $S_{D1} = 0.522 g$
- 2. Structural Steel
- 2.1. Material: A. W-Shapes: ASTM A992, (F_y = 50 ksi), except as noted otherwise B. All Other Shapes and Plates: ASTM A36 (Fy = 36 ksi), except as noted otherwise
- 2.2. Fabrication and construction shall comply with the following Codes and Standards:
- A. American Institute of Steel Construction (AISC) 360-16, "Specification for Structural Steel Buildings B. AISC 303-16, "Code of Standard Practice for Steel Buildings and Bridges" excluding the following: Section 3.3 (last two sentences of first paragraph), Section 4.4, Section 4.4.1, Section 4.4.2,
- Section 4.5, and Section 7.13.3 1. The architectural drawings are the prime contract drawings. Consultants' drawings by other disciplines are supplementary to the architectural drawings. The structural drawings shall be used in conjunction with the architectural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in architectural, structural, and/or other consultants' drawings. Refer to the Special Instructions section of the general notes, below.
- AISC/RCSC 2014, "Specification for Structural Joints Using High-Strength Bolts" D. American Welding Society (AWS) D1.1:2015, "Structural Welding Code – Steel" (specific items do not apply when they conflict with the AISC requirements)
- 2.3. Structural shapes and plates shall be fabricated from newly rolled (milled) one-piece sections without splices, unless specifically noted otherwise on the structural drawings. Connections for structural steel shall comply with the structural drawings, unless written approval is given by the Structural Engineer.
- 2.4. Welding: A. It is recommended the steel erection contractor and steel fabricator contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
- B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the Architect prior to beginning work. C. Electrodes: E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof
- decks. D. Minimum Welds: All intersecting steel shapes that are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Fillet weld sizes that are not shown shall be 1/16" less
- than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected parts. E. Bolts: Do not apply any welds, including "tack" welds to bolts, including anchor bolts, except as specifically detailed in the drawings.
- 3. Miscellaneous
- 3.1. Post-Installed Anchors in Concrete Anchorage to hardened concrete shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Engineer prior to installation
- B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes. C. Anchorage to Concrete:
- 1. All post-installed anchors into hardened concrete shall be selected from the following preapproved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti Kwik HUS-EZ	ICC ESR-3027
DeWalt Screw-Bolt+	ICC ESR-3889
Simpson Titen HD	ICC ESR-2713
Steel Expansion/Wedge Anchor	Evaluation Report
Hilti Kwik Bolt TZ2	ICC ESR-4266
DeWalt Power-Stud+ SD2	ICC ESR-2502
Simpson Strong-Bolt 2	ICC ESR-3037
Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 200	ICC ESR-3187
Hilti HIT-RE 500 V3	ICC ESR-3814
DeWalt AC200+	ICC ESR-4027
DeWalt Pure 110+	ICC ESR-3298
Simpson SET-3G	ICC ESR-4057

- 2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21 days, consult the adhesive manufacturer. D. Alternate anchors or adhesives are permitted with approval of the Engineer. The Contractor shall
- submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent to or exceeds the capacity of the specified anchor. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by an applicable certification program.
- Certification shall include written and performance tests in accordance with the ACI/CRSI Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the Engineer for approval prior to commencement of installation. F. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and
- applicable code evaluation reports including: 1. Hole diameter, depth, and cleaning procedure
- 2. Adhesive mixing, preparation, and placement 3. Installation torque
- G. Locate all existing reinforcement and embedded items prior to drilling into concrete elements. Do not damage rebar or embeds while drilling or installing anchors.
- H. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Architect for additional
- requirements at architecturally exposed concrete. I. Drilled anchors are not allowed in post-tensioned concrete without approval of the Architect and Engineer. J. Carbon steel anchors are limited to use in dry, interior locations.
- K. Holes for post-installed anchors may not be core drilled unless specifically allowed by the manufacturer's installation instructions and the code evaluation report.

3.2. Existing conditions A. Existing conditions:

- 1. The contract structural drawings represent the reconfigured structure and do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence. 2. The Contractor is responsible for being knowledgeable on information presented in available
- new or existing drawings and shall field verify all relevant information. Information available in existing drawings may be incomplete. Contractor shall familiarize themselves with information available in the existing and new drawings and shall field verify all pertinent information. 3. Contractor shall field verify all existing conditions prior to performing any work, including but
- not limited to: bidding and estimating, shoring, detailing, fabricating, manufacturing, erecting, or installing any given structural element indicated in the contract drawings. 4. Information on existing conditions provided in the contract drawings are based on information gathered from existing drawings and during limited site observations. If conditions shown do
- not match existing conditions, contact architect/engineer prior to performing any work. Do not proceed until instructions in writing are provided by the architect/engineer. 5. Dimensional information provided in the contract drawings on existing conditions are for general information and reference purposes only and shall not be used for detailing and
- construction. 6. Contractor shall provide dust, odor, and noise protection, and safety measures as necessary to protect the existing structure, vehicles, building interior, building patrons and other persons for the duration of demolition and construction operations.
- 7. Contractor shall safely shore existing construction to allow the installation of new work, see shoring and stabilization section for additional information. Selected demolition sequencing and shoring methods used shall be the responsibility of the Contractor and their engineer.
- 8. Contractor shall refer to existing drawings of the existing facility to verify: a. Structural member sizes and locations, slab thickness
- Location of previous additions, alterations, or repairs performed at the facility c. Location of expansion joint systems
- d. Location of interior architectural items
- 9. Demolition, cutting, drilling, etc. work shall be performed as to not damage existing structure that is to remain and shall not jeopardize the structural integrity of the existing building. If any architectural, structural, or MEP members not designated for removal interfere with the new work, the Owner, Architect, and Engineer shall be notified immediately and approval obtained prior to their removal. 10.Contractor shall repair all damage caused during construction or demolition. All damage shall
- be repaired and restored with similar materials and workmanship to levels acceptable to the Owner.

4. Special Instructions

details

4.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical

4.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the Owner. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk.

4.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.

4.4. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the Contractor of the responsibility of completing the project according to the contract documents. The General Contractor shall review and mark all shop drawings prior to submitting them to the Architect for review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.

4.5. Project Coordination: It shall be the responsibility of the General Contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the General Contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the General Contractor. It is the Contractor's obligation to provide all items necessary for the chosen procedure.

4.6. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, Contractor shall notify Architect/Engineer prior to fabrication or construction within that area.

4.7. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers' reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the Contractor or subcontractors for preparation of shop drawings or other submittals.

5. Quality Assurance

5.1. Quality Assurance Agency Requirements: A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements. 1. The QAA shall be objective, competent and independent from the Contractor responsible for the work being inspected. The agency shall disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.

2. The QAA shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated. 3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.

4. The QAA shall send copies of all inspection and testing reports to the building official, Owner, Architect, Engineer and Contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the, Architect and Engineer. 5. The QAA shall submit a final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests. The final report shall be

distributed to the building official, Owner, Architect and Engineer in a timely manner prior to the completion of the project. 5.2. Contractor Responsibilities:

A. The Contractor shall submit a written statement of responsibility to the building official and the Owner or the owner's authorized agent prior to the commencement of work on the systems or components listed in the statement of special inspections. The Contractor's statement of responsibility shall contain acknowledgement or awareness of the special requirements contained in the statement of special inspections. B. Notification of QAA: The Contractor shall notify the QAA in a timely manner so that inspection

and testing may be performed as outlined in the statement of special inspections.

5.3. Structural Observations by the Engineer of Record.

inspection or approval of construction.

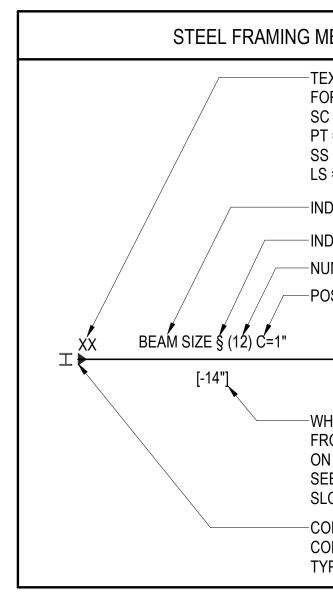
- Observations will be made on a periodic basis throughout the construction of the structural system. Copies of the Engineer's report will be distributed to the Architect, Contractor, Owner, and building official. B. Observation visits to the site by the Engineer's field representatives shall not be construed as
- 6. Statement of Special Inspections
- 6.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).
- 6.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. For tasks labeled as "Observe," the inspector shall observe these items on a random basis. Tasks labeled as "Perform" shall be performed for each member, joint or connection.

Structural Steel per IBC Section 1705.2.1, 1705.12.1 & 1705.13.1 Frequency Detailed Instructions Prior to Welding (Table N5.4-1, AISC 360-16): Verify welder qualification records and Welder qualification records Observe continuity records Perform Verify welding procedures (WPS) and consumable certificates Material identification Verify type and grade of material. Observe Welder identification Observe Confirm a system is in place by which a welder who has welded a joint or member can be identified. Observe Verify joint preparation, dimensions, Fit-up groove welds cleanliness, tacking, and backing. Verify configuration and finish. Access holes Observe Fit-up of fillet welds Observe Verify dimensions, cleanliness and tacking.

During Welding (Table N5.4-2, AISC	· · · · · · · · · · · · · · · · · · ·	
Use of qualified welders	Observe	Verify that welders are
Control and handling of welding consumables	Observe	Verify packaging and e
Cracked tack welds	Observe	Verify that welding does cracked tack welds.
Environmental conditions	Observe	Verify wind speed is wit precipitation and tempe
WPS followed	Observe	Verify items such as se equipment, travel spee shielding gas type/flow interpass temperature r position.
Welding techniques	Observe	Verify interpass and fin is within profile limitatio pass.
After Welding (Table N5.4-3, AISC 3	60-16):	
Welds cleaned	Observe	Verify that welds have I
Size, length, and location of welds	Perform	Verify the size, length a
Welds meet visual acceptance criteria	Perform	Verify that welds meet of metal fusion, profile, siz porosity provisions.
Arc strikes	Perform	Verify that arc strikes d permanent weld areas.
k-area	Perform	When welding of double plates or stiffeners has k-area, visually inspect cracks.
Backing & weld tabs removed	Perform	If required on the appro documents, verify that I removed.
Repair activities	Perform	Verify that repair activit accordance with AISC
Documentation	Perform	Document the acceptar welded joint or member
Prohibited welds	Observe	Verify no prohibited we without approval of the
Welded joints subject to fatigue	Perform	Welded joints subject to 3.1 of AISC 360) shall h testing.
oncrete Construction per IBC Secti	ons 1705.3 & 1705.1	12
Item	Frequency	Detailed Instructions
Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	Continuous	All post-installed ancho specially inspected as r approved ICC-ES repor upwardly inclined ancho
Post-installed mechanical anchors	Periodic	tension loads require co

and adhesive anchors not defined

above



	PLAN LEGEND
STEEL BEAM OR GIRDER	EXISTING STEEL COLUMN - TUBE
STEEL JOIST OR PURLIN	\square EXISTING STEEL COLUMN - WIDE FLANGE
< STEEL ANGLE BRACE / KICKER.	< EXISTING STEEL ANGLE BRACE/KICKER
	EXISTING STEEL BEAM OR GIRDER
	EXISTING STEEL JOIST OR PURLIN

A. The Engineer of Record will perform structural observations at critical phases of the project.

elders are appropriately qualified. aging and exposure control. elding does not occur over

speed is within limits as well as and temperature. such as settings on welding

travel speed, welding materials, is type/flow rate, preheat applied, mperature maintained, and proper

bass and final cleaning, each pass ofile limitations, and quality of each

- elds have been properly cleaned. ze, length and location of welds. elds meet crack prohibition, base
- profile, size, undercut, and rc strikes do not exist outside the
- ng of doubler plates, continuity feners has been performed in the ally inspect the web k-area for
- on the approved construction verify that back and weld tabs are
- epair activities are performed in
- with AISC 360 and AWS D1.1. the acceptance or rejection of the it or member
- hibited welds have been added oval of the EOR. s subject to fatigue (see Table A-
- 360) shall have radiographic or UT

lled anchors/dowels shall be pected as required by the C-ES report. Horizontally or

clined anchors that resist sustained Is require continuous inspection and approved installers.

STEEL FRAMING MEMBER DESIGNATION

-TEXT INDICATES ADDITIONAL REQUIREMENTS FOR BOLTS AT SPECIFIED CONNECTION: SC = SLIP CRITICAL BOLTS PT = FULLY PRETENSIONED BOLTS

- SS = SHORT SLOTTED HOLES LS = LONG SLOTTED HOLES
- -INDICATES STEEL JOIST, BEAM OR GIRDER SIZE
- -INDICATES MEMBER IS PART OF LFRS -NUMBER OF HEADED STUDS ON BEAM
- -POSITIVE OR UPWARD CAMBER AT MIDSPAN

-WHERE NOTED. NUMBER INDICATES DIMENSION FROM TOP OF STEEL ELEVATION REFERENCED ON PLAN (TOST). SEE ARCH FOR DECK BEARING ELEVATIONS AT SLOPED ROOF FRAMING.

CONNECTION TYPE. SEE FRAMING CONNECTION LEGEND. IF ABSENT, PROVIDE TYPICAL SINGLE PLATE CONNECTION.

	ABBREVIATIONS
0	AT
AB	ANCHOR BOLT (S)
ABV ALT	ABOVE ALTERNATE
	APPROXIMATE
	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
3M DOT	BEAM
BOT BRG	BOTTOM BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL
	JOINT
CJP	COMPLETE JOINT PENETRATION
CMU COL	CONCRETE MASONRY UNIT COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER DECK BEARING
D.B. db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
OBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	
	DIAGONAL
DIM DK	DIMENSION DECK
DN DN	DOWN
DWG	DRAWING
OWL	DOWEL
Ξ.F.	EACH FACE
Ξ.J.	EXPANSION JOINT (SEISMIC
Ξ.W.	SEPARATION JOINT) EACH WAY
vv. EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
eq Equip	EQUAL EQUIPMENT
EXIST (E)	
. ,	EXPANSION / EXPOSED
EXT	EXTERIOR
=.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V. FDTN	FIELD VERIFY FOUNDATION
=IN	FINISH
FL	FLOOR
-T	FOOT
-TG	FOOTING
GA	GAUGE
galv Glb	GALVANIZED GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
НB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
НТ .F.	HEIGHT INSIDE FACE
BC	INTERNATIONAL BUILDING CODE
CC	INTERNATIONAL CODE COUNCIL
N	INCH
NSUL	INSULATION
NT	INTERIOR
JST JT	JOIST JOINT
۲ ۲	KIPS - 1,000 POUNDS
<lf< td=""><td>KIPS PER LINEAL FOOT</td></lf<>	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
<si< td=""><td>KIPS PER SQUARE INCH</td></si<>	KIPS PER SQUARE INCH
	POUNDS
	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH
, ,	SCHEDULE
_F	LINEAL FOOT
_FRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
_LH	LONG LEG HORIZONTAL
LV	LONG LEG VERTICAL
_SH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX MCJ	MAXIMUM MASONRY CONTROL JOINT
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
	NOT IN CONTRACT
NORM NTS	NORMAL NOT TO SCALE
NIS D.C.	ON CENTER
0.0. 0.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PCF PJP	POUNDS/CUBIC FOOT PARTIAL JOINT PENETRATION

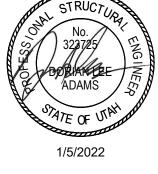
ABBREVIATIONS

	ABBREVIATIONS
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN
REINF	REINFORCING
	REQUIRED
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
	SPECIAL INSPECTION (SP. INSP.)
	SIMILAR
	SLAB ON GRADE
	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
Т&В	TOP AND BOTTOM
Т.О.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

	PLAN MARKS
3F-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED
	SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
CGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
=C#	CONTINUOUS FOOTING
=M#	MAT FOOTING
=R#	RECTANGULAR FOOTING
=S#	SQUARE FOOTING
=TS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
NB-#	WOOD BEAM
NBW-#	WOOD BEARING WALL
NC-#	WOOD COLUMN
ND-#	WOOD DIAPHRAGM
NJ-#	WOOD JOIST
NSW-#	WOOD SHEAR WALL
۱۲۵	RUCTURAL DRAWING LIST

STRUCTURAL DRAWING LIST	
SHT NO.	SHEET NAME
SE001	GENERAL STRUCTURAL NOTES, LEGENDS & ABBREVIATIONS
SF101	LEVEL 3 PARTIAL FRAMING PLAN
SF501	EQUIPMENT SUPPORT DETAILS

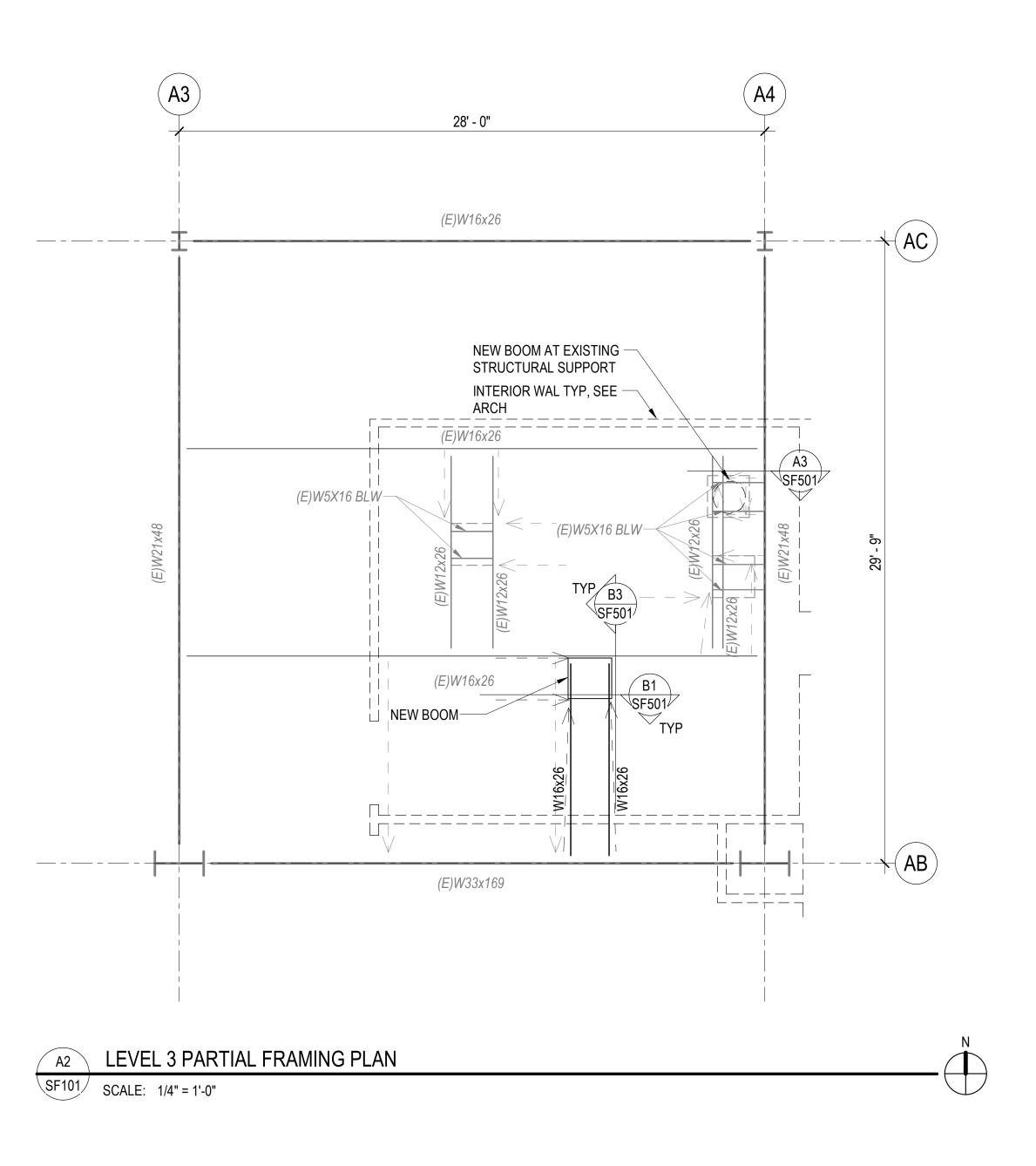








GENERAL STRUCTURAL NOTES, LEGENDS & **ABBREVIATIONS** SEUC

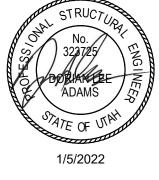


EXISTING BUILDING NOTES 1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED. 2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

MEDICAL EQUIPMENT SUPPORT

1. VERIFY EQUIPMENT SUPPORT DIMENSIONS WITH MEDICAL EQUIPMENT VENDORS, EXISTING BOOM SUPPORTS AND ARCHITECTURAL PRIOR TO FABRICATION.



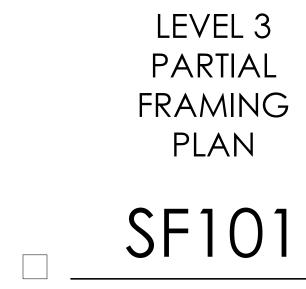


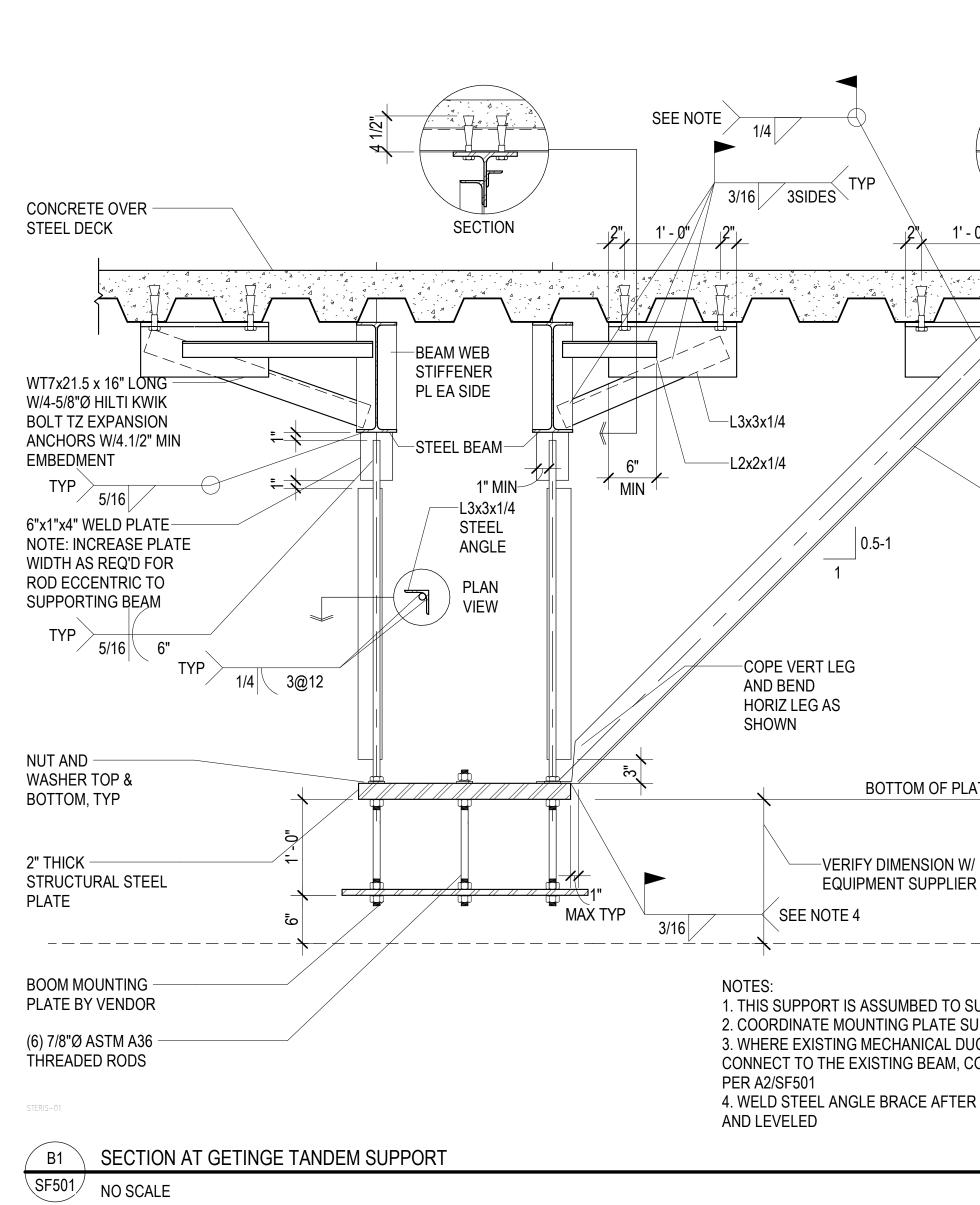


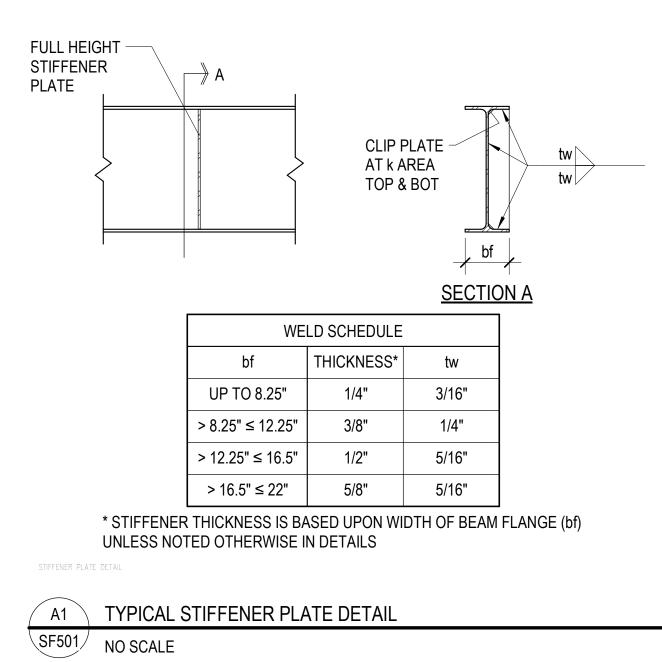


NJRA Project # 100% CONSTRUCTION Januray 5, 2022 DOCUMENTS

21211.00

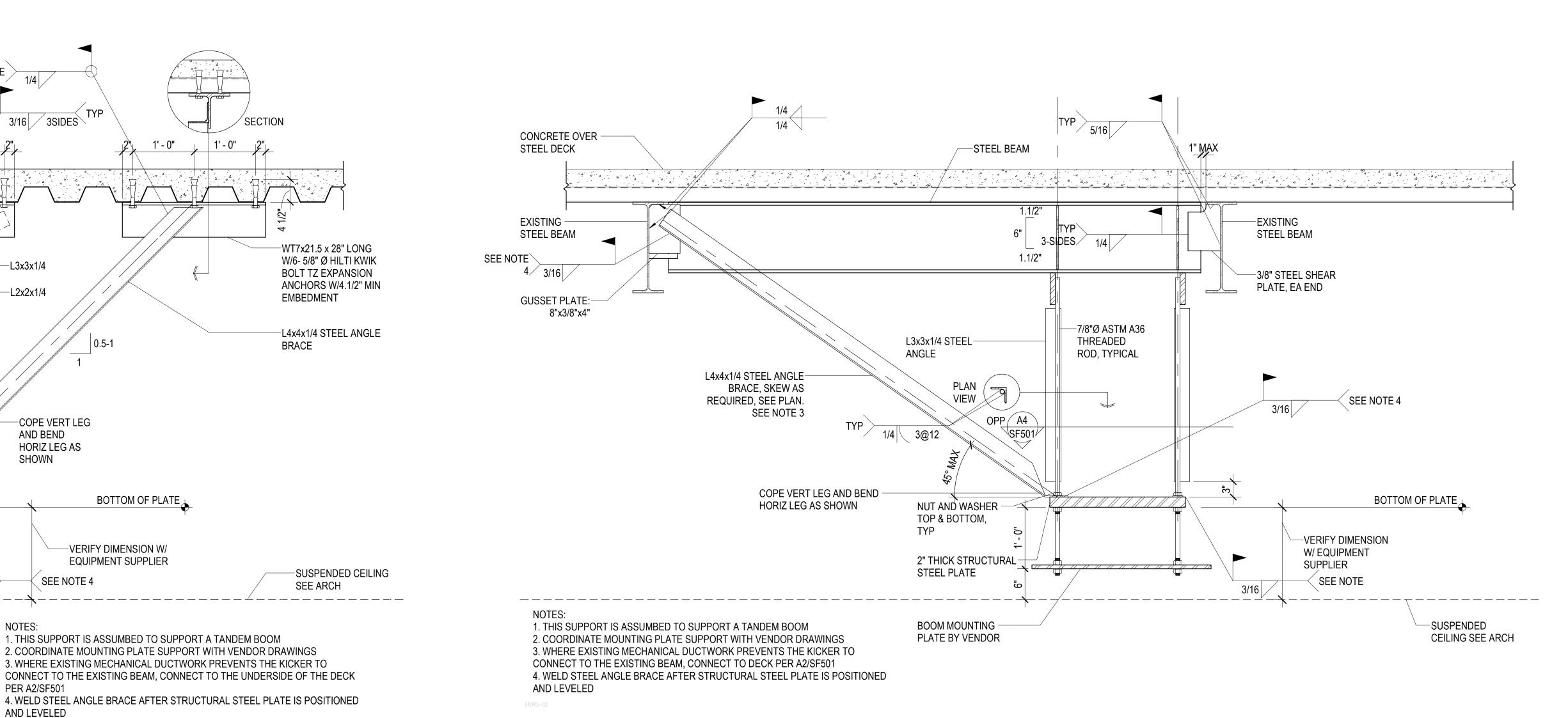






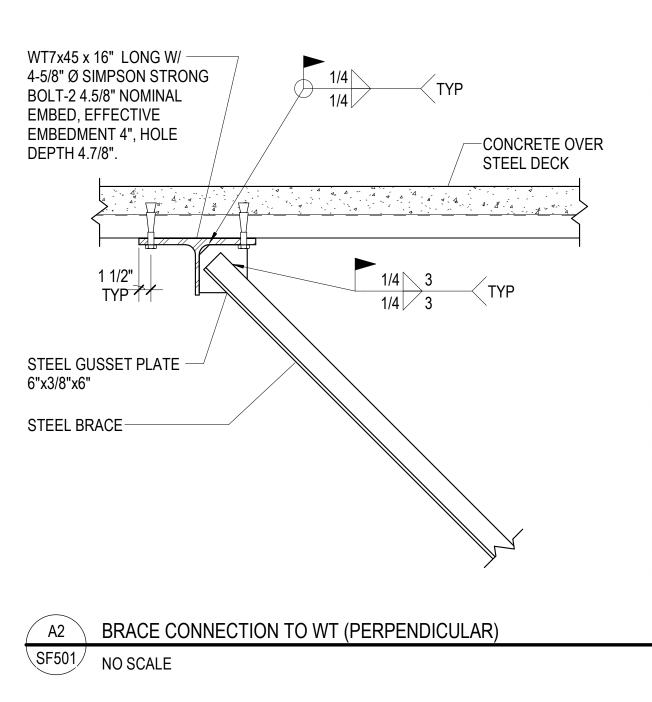
NOTES FOR MEDICAL EQUIPMENT SUPPORT DETAILS: 1. VERIFY ALL DIMENSIONS WITH EQUIPMENT SUPPLIER AND ARCHITECTURAL 2. FIELD VERIFY LOCATIONS OF EXISTING STEEL FRAMING PRIOR TO FABRICATING EQUIPMENT SUPPORT STEEL

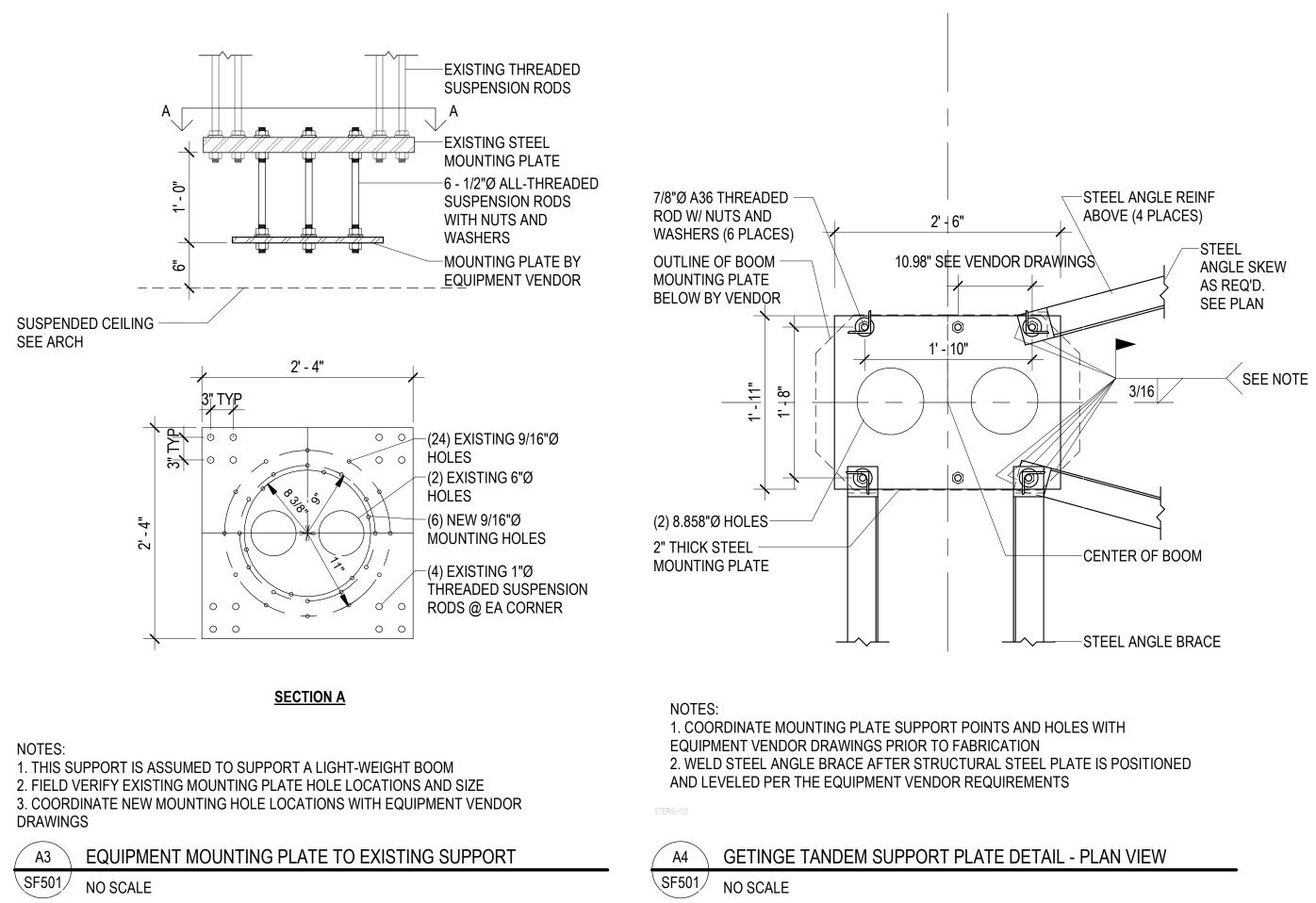




4. WELD STEEL ANGLE BRACE AFTER STRUCTURAL STEEL PLATE IS POSITIONED





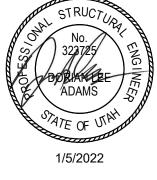


NOTES:

SF501 NO SCALE











NJRA Project # 100% CONSTRUCTION DOCUMENTS

21211.00 Januray 5, 2022



SF50



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1 Demolition Floor Plan Level 2 - Overall SCALE: 1/8" = 1'-0"

NORTH

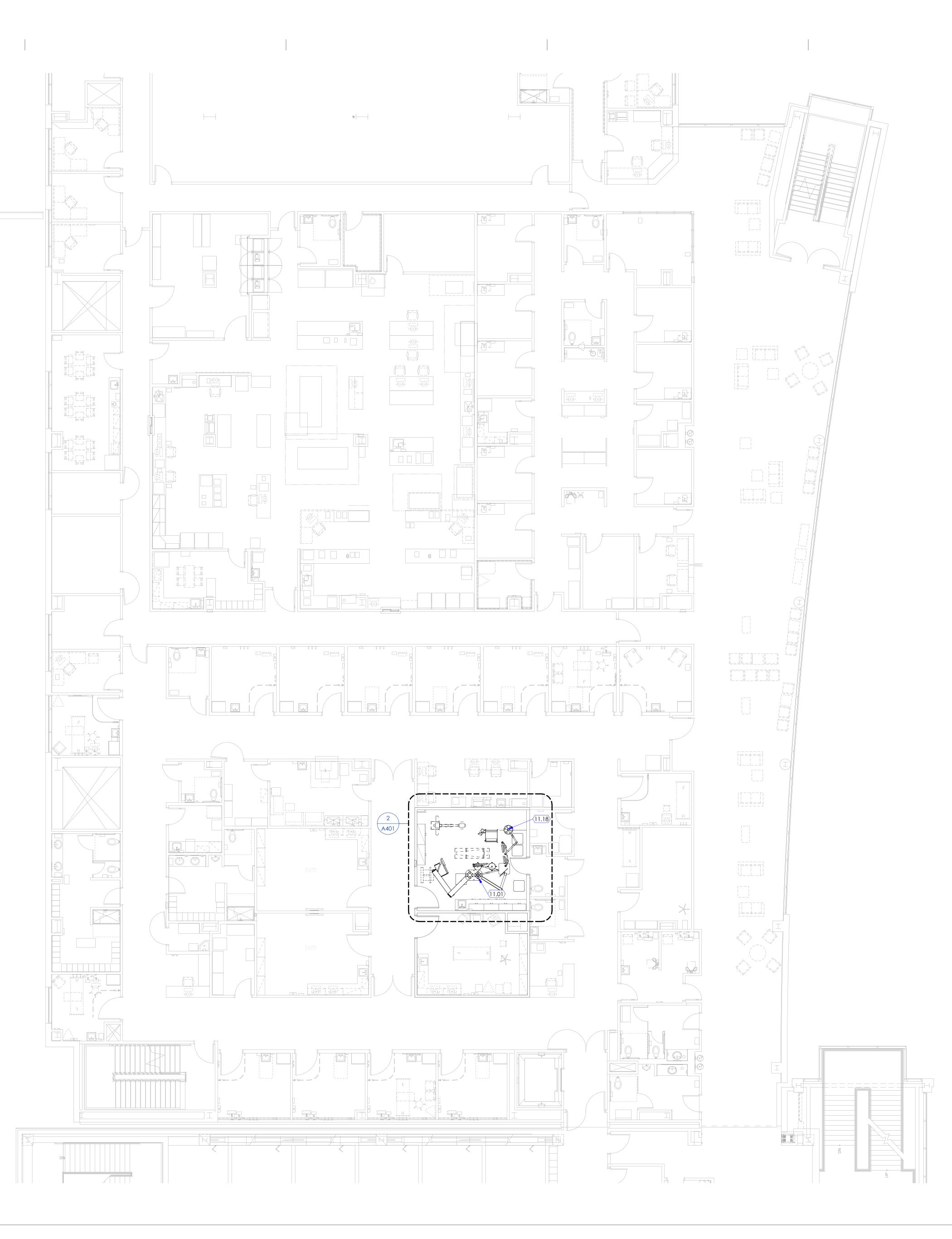
KEYED NOTES

01.56	LINES INDICATE LOCATION OF FLOOR TO CEILING TEMPORARY DUST PROOF ICRA CONSTRUCTION BARRIER WALL TO PREVENT DUST AND DIRT MIGRATION AND TO SEPARATE AREAS OCCUPIED BY THE OWNER FROM FUMES AND NOISE. CONSTRUCTION BARRIER TO BE ERECTED WITH POLYCARBONATE PRE-MADE BARRIERS BY STARC OR EQUAL. TAPE AND SEAL ALL JOINTS AND OPENINGS. SEAL JOINTS AT PERIMETER. PARTITION TO BE EQUIPPED WITH 4'-0" LOCKABLE MAN DOOR WITH STICKY MATS ON BOTH SIDES OF DOOR. COORDINATE WITH OWNER AND INFECTION CONTROL NURSE FOR EXACT LOCATION AND ALL REQUIREMENTS. CONTRACTOR SHALL MAINTAIN NEGATIVE PRESSURE IN THE CONSTRUCTION AREA DURING CONSTRUCTION AS REQUIRED BY THE INFECTION CONTROL COMMITTEE OF THE HOSPITAL.
01.57	CONSTRUCTION ACCESS SUBJECT TO APPROVAL BY OWNER AND INFECTION CONTROL NURSE. THIS DOOR SHALL REMAIN CLOSED AT ALL TIME TO MAINTAIN THE NEGATIVE PRESSURE AT THE ANTE-ROOM AND THE CONSTRUCTION AREA.
01.59	THIS DOOR SHALL BE TAPED AND COMPLETELY SEALED DURING CONSTRUCTION TO AVOID DIRT AND DUST MIGRATION DURING CONSTRUCTION. COORDINATE WITH ICRA AND INFECTION CONTROL NURSE FOR ALL REQUIREMENTS. CONSTRUCTION ACCESS ONLY FROM THE REAR DOOR.
02.01	WALL. EXISTING TO REMAIN. PROTECT WALL FROM DAMAGE DURING CONSTRUCTION. PATCH, REPAIR AND REPAINT WALL TO ORIGINAL CONDITION WHERE REQUIRED TO COMPLETE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. EXISTING WALLS HAVE LEAD LINED GYPSUM BOARD FOR FUTURE IMAGING EQUIPMENT INSTALLATION IN THIS ROOM. CONTRACTOR IS REQUIRED TO MAINTAIN EXISTING LEAD SHIELDING FOR ANY PATCH AND REPAIR WORK THAT WOULD BE PERFORMED.
02.05	DOOR. EXISTING TO REMAIN. PROTECT DOOR FROM DAMAGE DURING CONSTRUCTION.
02.17	FLOOR COVERING. EXISTING TO REMAIN. PROTECT FLOOR COVERING FROM DAMAGE DURING CONSTRUCTION.
02.21	EXISTING ONE HOUR FIRE RATED WALL TO REMAIN. PARTIALLY REMOVE TOP PORTION OF THE WALL TO INSTALL NEW STRUCTURAL BEAMS AS SHOWN IN THE STRUCTURAL DRAWINGS, PATCH, REPAIR, FINISH AND FIRE CAULK AROUND

STRUCTURAL DRAWINGS, PAICH, REPAIR, FINISH AND FIRE CAULK AROUND THE STRUCTURE AFTER ALL WORK IS COMPLETED.
02.89 TEMPORARILY USE THIS AREA AS ANTE ROOM FOR DUST CONTROL. EXISTING BATHROOM TO BE DECOMMISSIONED BY COVERING ALL PLUMBING FIXTURES (SINK, WC ETC.)UNTIL CONSTRUCTION WORK IS COMPLETED.

GENERAL NOTES





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1 Floor Plan Level 2 - Overall SCALE: 1/8" = 1'-0"

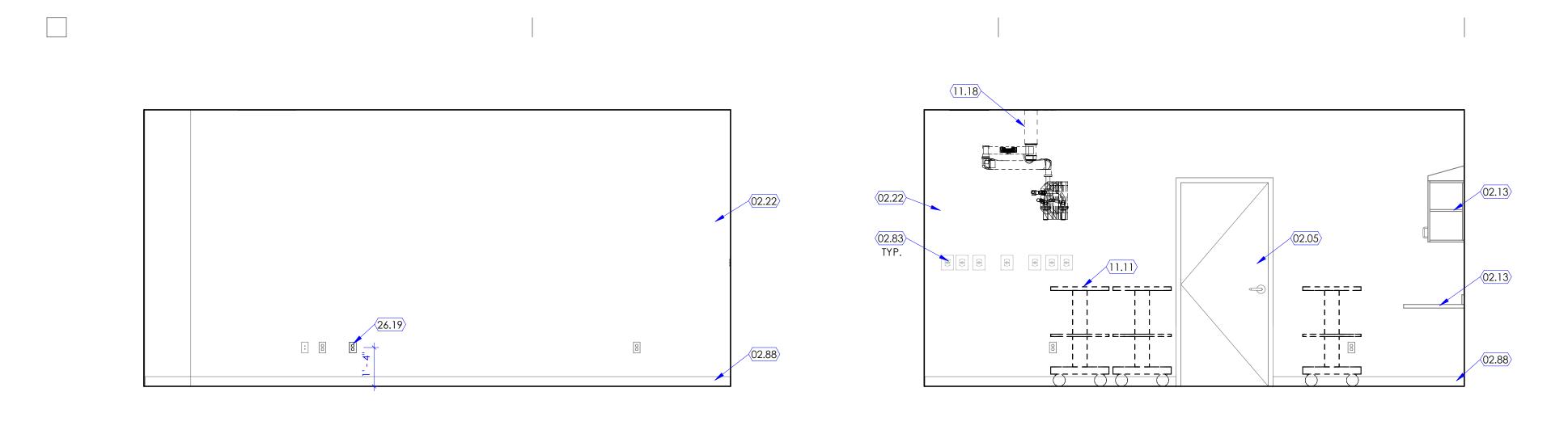
KEYED NOTES

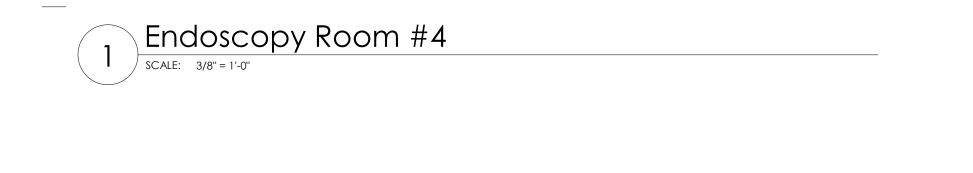
- 11.01 NEW GETINGE H15-15 EQUIPMENT BOOM. SEE STRUCTURAL, ELECTRICAL AND EQUIPMENT DRAWINGS FOR MORE INFORMATION. PROVIDE AND INSTALL
- NEW EQUIPMENT SUPPORT BOOM STRUCTURE ABOVE CEILING. 11.18 NEW DUAL MONITOR GETINGE BOOM. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. RE-USE EXISTING BOOM SUPPORT STRUCTURE ABOVE CEILING IN THIS AREA. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH STRUCTURAL DRAWINGS AND EQUIPMENT VENDOR.

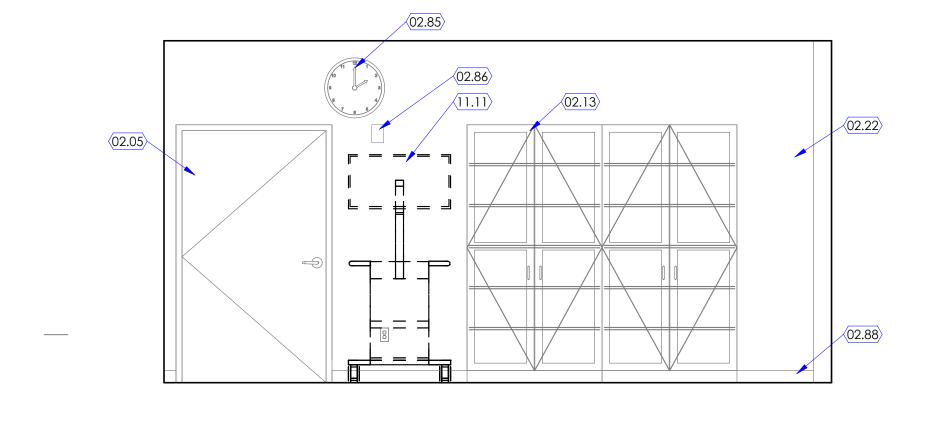
GENERAL NOTES

NORTH

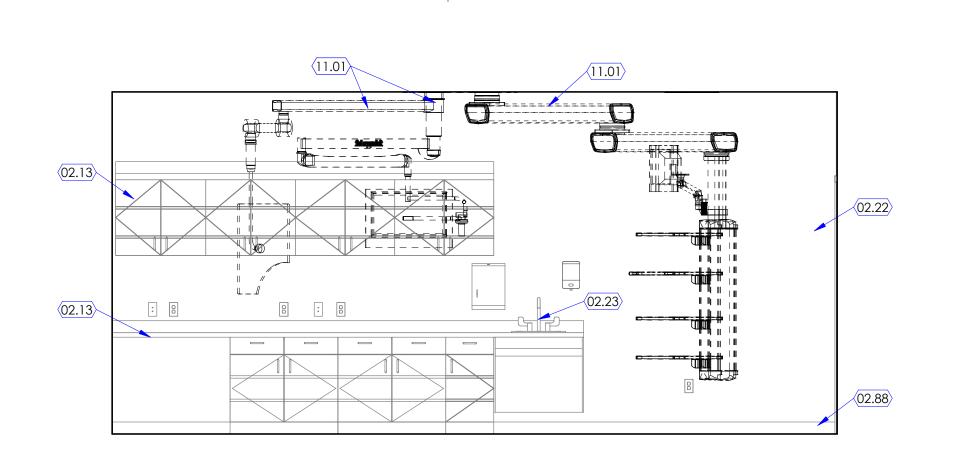








4 Endoscopy Room #4



2 Endoscopy Room #4 SCALE: 3/8" = 1'-0"

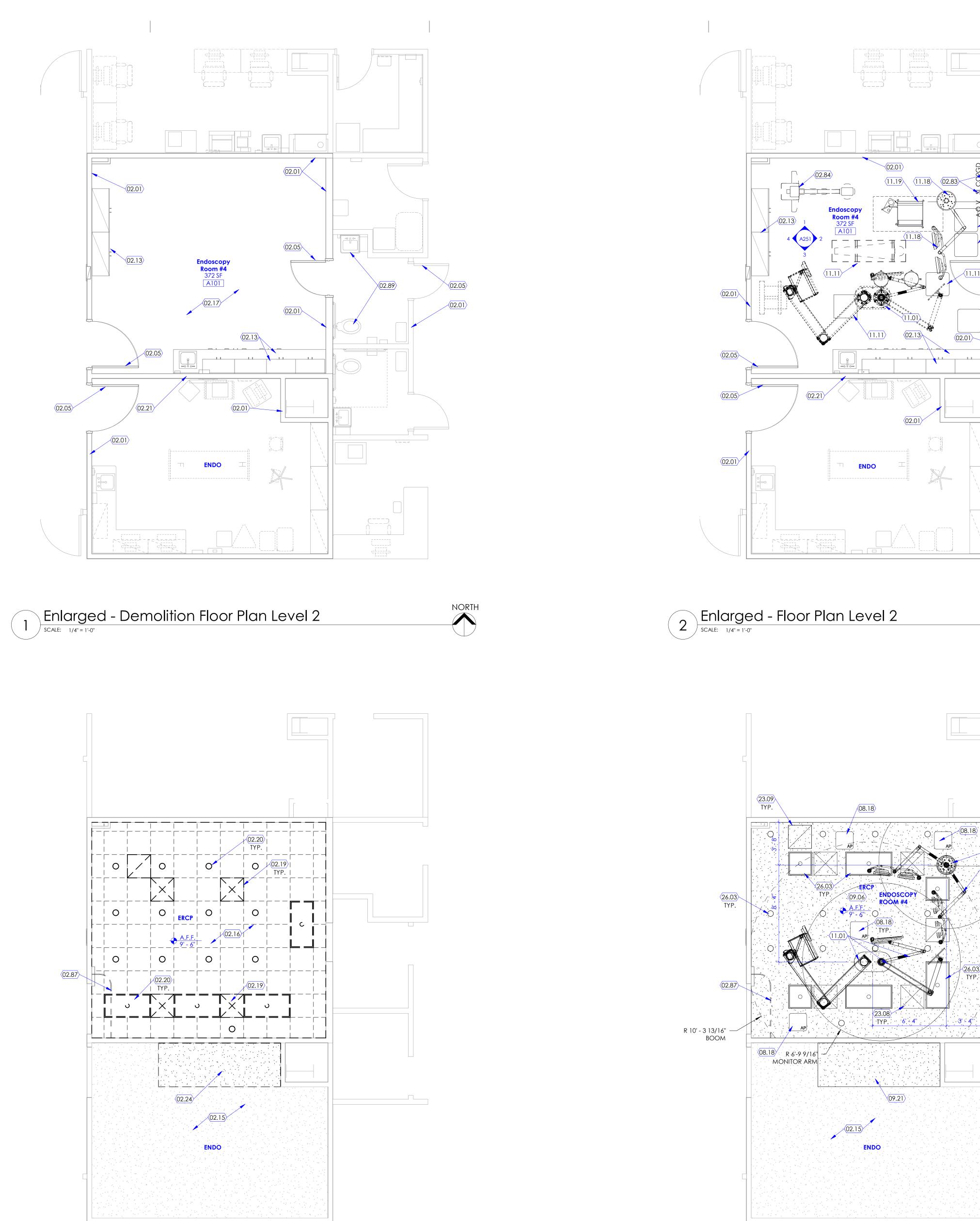
3 Endoscopy Room #4 SCALE: 3/8" = 1'-0"

KEYED NOTES

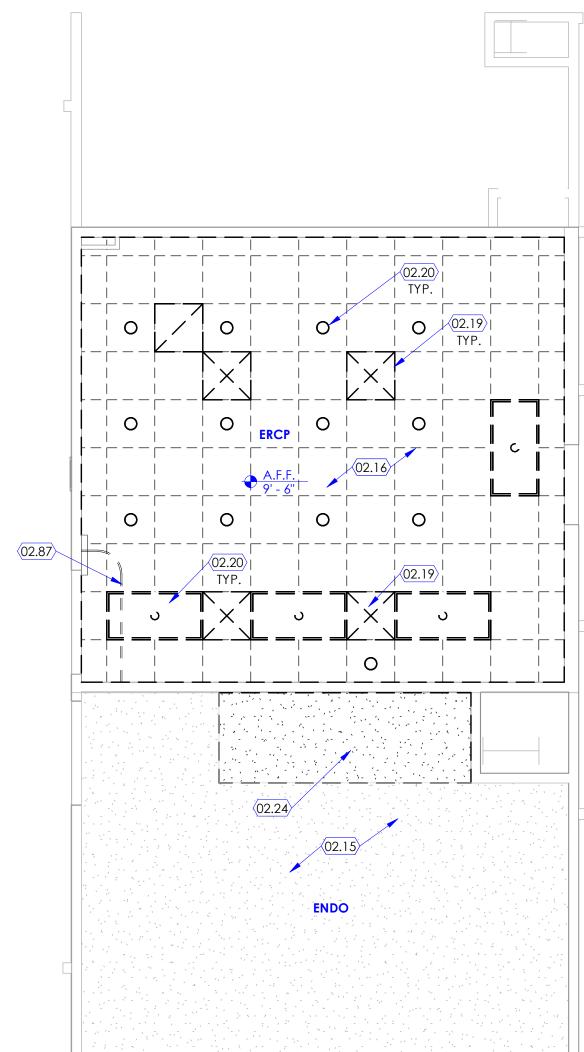
- 02.05 DOOR. EXISTING TO REMAIN. PROTECT DOOR FROM DAMAGE DURING CONSTRUCTION.
- 02.13 CABINET (AND COUNTERTOP WHERE OCCURS). EXISTING TO REMAIN. PROTECT CABINET AND COUNTERTOP FROM DAMAGE DURING CONSTRUCTION.
- 02.22 TOUCH UP, PATCH, REPAIR AND PAINT WALL TO MATCH ADJACENT EXISTING ONLY WHERE ANY ELECTRICAL, MECHANICAL OR STRUCTURAL WORK IS PERFORMED AS OUTLINED IN THE CONSTRUCTION DOCUMENTS. REPAINTING OF THE ENTIRE WALL IS NOT REQUIRED.
- 02.23 EXISTING SINK, FAUCET AND ASSOCIATED PLUMBING PIPING ETC. TO REMAIN. PROTECT DURING CONSTRUCTION. 02.83 EXISTING MED GAS AND OUTLETS TO REMAIN. PROTECT DURING
- CONSTRUCTION.
- 02.85 EXISTING WALL CLOCK TO REMAIN. 02.86 EXISTING HORN STROBE TO REMAIN. PROTECT DURING CONSTRUCTION.
- 02.88 EXISTING WALL BASE. PROTECT FROM DAMAGE DURING CONSTRUCTION. 11.01 NEW GETINGE H15-15 EQUIPMENT BOOM. SEE STRUCTURAL, ELECTRICAL AND
- EQUIPMENT DRAWINGS FOR MORE INFORMATION. PROVIDE AND INSTALL NEW EQUIPMENT SUPPORT BOOM STRUCTURE ABOVE CEILING.
- 11.11 EQUIPMENT, NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED. 11.18 NEW DUAL MONITOR GETINGE BOOM. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. RE-USE EXISTING BOOM SUPPORT STRUCTURE ABOVE CEILING IN THIS AREA. FIELD VERIFY EXACT LOCATION AND
- COORDINATE WITH STRUCTURAL DRAWINGS AND EQUIPMENT VENDOR. 26.19 NEW POWER OUTLET. SEE ELECTRICAL DRAWINGS.

GENERAL NOTES

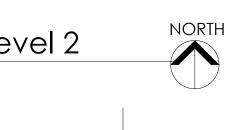




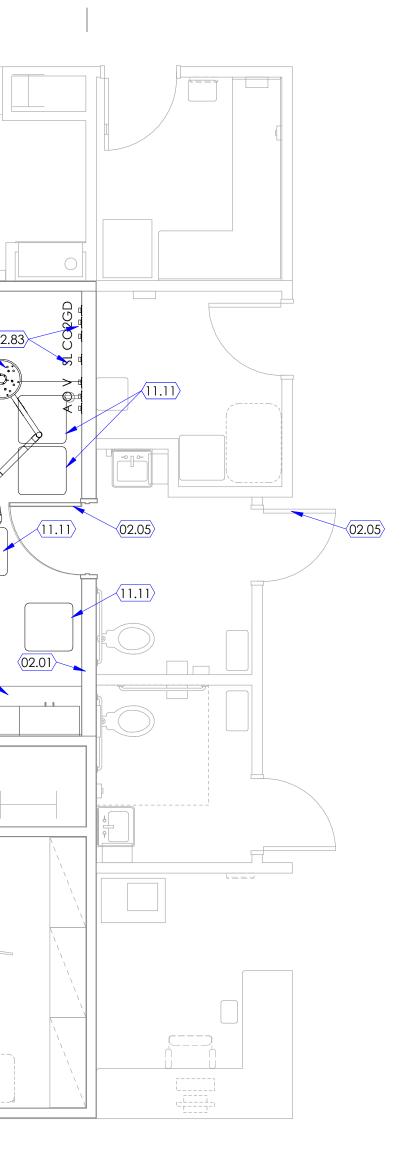




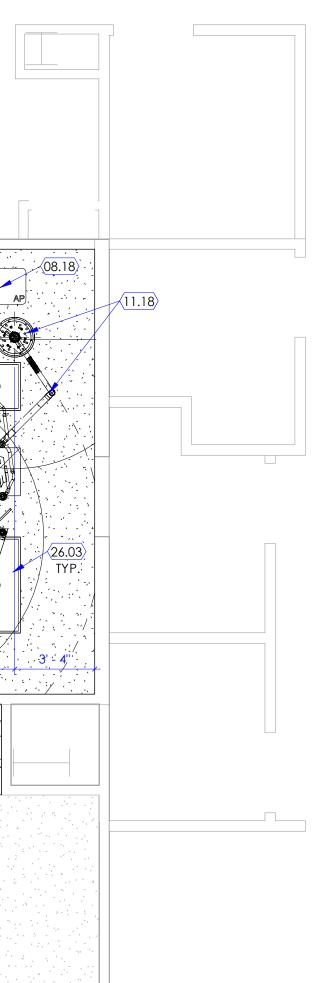
3 Enlarged - Reflected Ceiling Demolition Plan Level 2 SCALE: 1/4" = 1'-0"

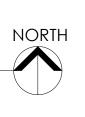












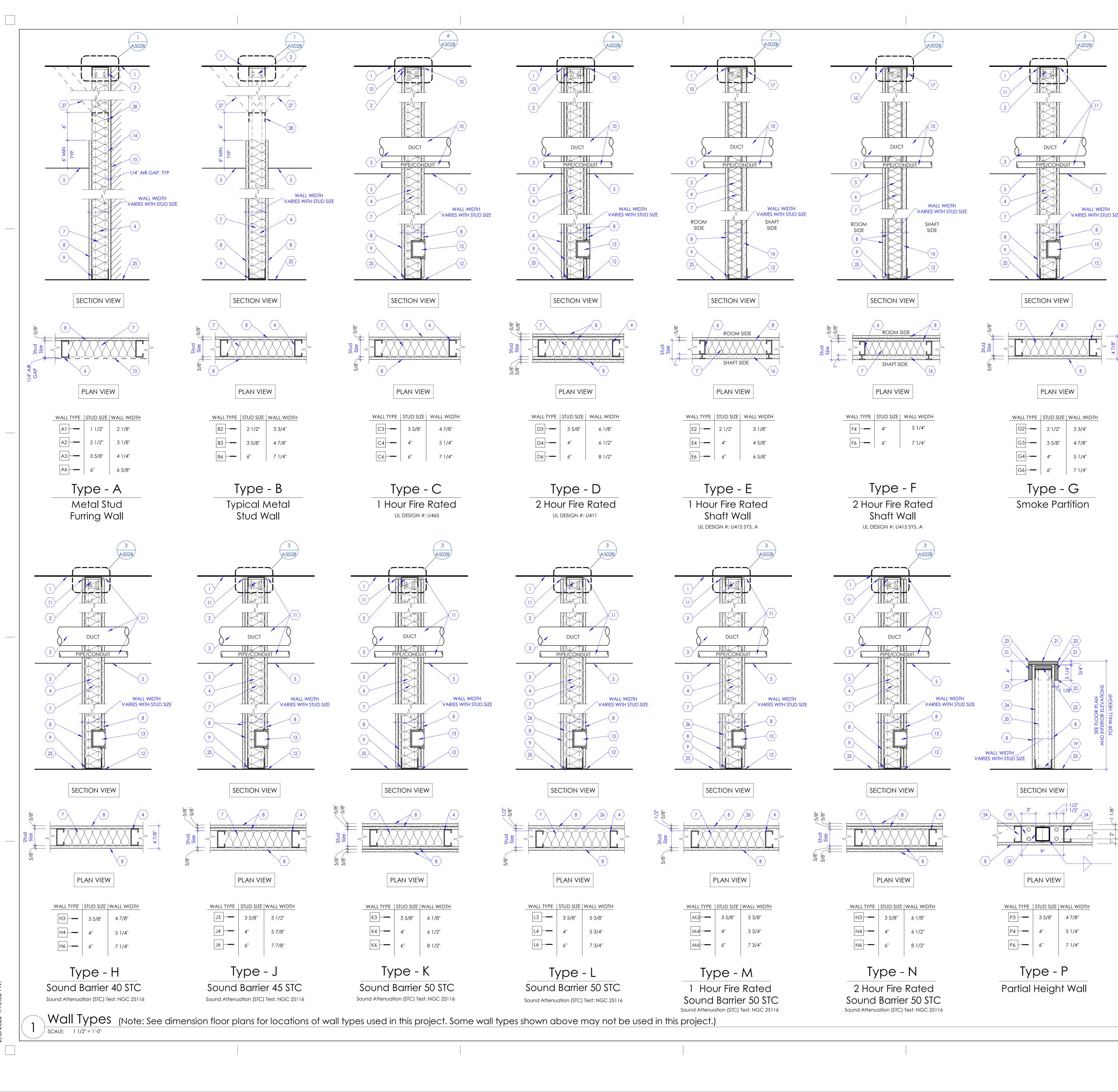
KEYED NOTES

02.01	WALL. EXISTING TO REMAIN. PROTECT WALL FROM DAMAGE DURING CONSTRUCTION. PATCH, REPAIR AND REPAINT WALL TO ORIGINAL
	CONDITION WHERE REQUIRED TO COMPLETE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. EXISTING WALLS HAVE LEAD LINED GYPSUM BOARD FOR FUTURE IMAGING EQUIPMENT INSTALLATION IN THIS ROOM.
	CONTRACTOR IS REQUIRED TO MAINTAIN EXISTING LEAD SHIELDING FOR ANY PATCH AND REPAIR WORK THAT WOULD BE PERFORMED.
02.05	DOOR. EXISTING TO REMAIN. PROTECT DOOR FROM DAMAGE DURING CONSTRUCTION.
00.10	

- 02.13 CABINET (AND COUNTERTOP WHERE OCCURS). EXISTING TO REMAIN. PROTECT CABINET AND COUNTERTOP FROM DAMAGE DURING CONSTRUCTION.
- 02.15 CEILING. EXISTING TO REMAIN. PROTECT CEILING FROM DAMAGE DURING CONSTRUCTION. 02.16 CEILING TILES, GRIDS, LIGHTS, DIFFUSERS ETC, EXISTING INDICATED WITH DASHED LINES IN THIS AREA TO BE REMOVED. SEE ELECTRICAL AND
- MECHANICAL DRAWINGS WHERE LIGHTS AND OR DIFFUSERS ARE RE-INSTALLED.
- 02.17 FLOOR COVERING. EXISTING TO REMAIN. PROTECT FLOOR COVERING FROM DAMAGE DURING CONSTRUCTION.
- 02.19 EXISTING CEILING DIFFUSER TO BE REMOVED. COORDINATE WITH MECHANICAL DRAWINGS IF ANY DIFFUSERS ARE RE-INSTALLED.
- 02.20 EXISTING LIGHT FIXTURE TO BE REMOVED. COORDINATE WITH ELECTRICAL DRAWINGS IF ANY LIGHTS ARE RE-INSTALLED. 02.21 EXISTING ONE HOUR FIRE RATED WALL TO REMAIN. PARTIALLY REMOVE TOP
- PORTION OF THE WALL TO INSTALL NEW STRUCTURAL BEAMS AS SHOWN IN THE STRUCTURAL DRAWINGS. PATCH, REPAIR, FINISH AND FIRE CAULK AROUND THE STRUCTURE AFTER ALL WORK IS COMPLETED. 02.24 REMOVE PORTION OF GYPSUM BOARD CEILING, LIGHTS, DIFFUSERS ETC. HERE
- IN ORDER TO INSTALL NEW STEEL BEAMS TO SUPPORT NEW GETINGE BOOM. FIELD VERIFY AND SEE STRUCTURAL DRAWINGS FOR EXTENT OF CEILING REMOVAL AND MORE INFORMATION. 02.83 EXISTING MED GAS AND OUTLETS TO REMAIN. PROTECT DURING
- CONSTRUCTION. 02.84 MOBILE C-ARM EQUIPMENT. OWNER FURNISHED AND INSTALLED.
- 02.87 REMOVE AND REINSTALL EXISTING PRIVACY CURTAIN AND TRACK AT THIS LOCATION.
- 02.89 TEMPORARILY USE THIS AREA AS ANTE ROOM FOR DUST CONTROL. EXISTING BATHROOM TO BE DECOMMISSIONED BY COVERING ALL PLUMBING FIXTURES (SINK, WC ETC.)UNTIL CONSTRUCTION WORK IS COMPLETED.
- 08.18 ACCESS DOOR. PROVIDE GFRG CEILING MOUNTED ACCESS DOOR 18" X 18" AT GYPSUM BOARD CEILING. FINISH AND PAINT TO MATCH ADJACENT NEW CEILING. COORDINATE EXACT LOCATION WITH BOOM EQUIPMENT MANUFACTURER AND ALSO BASED ON ACCESS REQUIRED TO SERVICE MECHANICAL UNITS AND VALVES IN THE CEILING SPACE.
- 09.06 NEW PAINTED GYPSUM BOARD CEILING. SEE CEILING DETAILS ON SHEET A503A. CEILING PAINT COLOR AND FINISH TO MATCH ADJACENT ROOM CEILING COLOR, FIELD VERIFY. 09.21 PATCH, REPAIR AND PAINT GYPSUM BOARD CEILING HERE TO MATCH
- EXISTING AFTER ABOVE CEILING STRUCTURAL WORK IS COMPLETED. RE-INSTALL ANY CEILING LIGHTS AND DIFFUSERS REMOVED FROM THIS AREA TO ORIGINAL CONDITION. SEE CEILING DETAILS ON SHEET A503A. CEILING PAINT COLOR AND FINISH TO MATCH ADJACENT EXISTING, FIELD VERIFY.
- 11.01 NEW GETINGE H15-15 EQUIPMENT BOOM. SEE STRUCTURAL, ELECTRICAL AND EQUIPMENT DRAWINGS FOR MORE INFORMATION. PROVIDE AND INSTALL NEW EQUIPMENT SUPPORT BOOM STRUCTURE ABOVE CEILING. 11.11 EQUIPMENT, NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED.
- 11.18 NEW DUAL MONITOR GETINGE BOOM. SEE STRUCTURAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. RE-USE EXISTING BOOM SUPPORT STRUCTURE ABOVE CEILING IN THIS AREA. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH STRUCTURAL DRAWINGS AND EQUIPMENT VENDOR.
- 11.19 ANESTHESIA CART, NOT IN CONTRACT, OWNER FURNED, OWNER INSTALLED. 23.08 SUPPLY DIFFUSER. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. COORDINATE DIFFUSER COLOR TO MATCH WITH ADJACENT EXISTING HOSPITAL STANDARD, FIELD VERIFY.
- 23.09 AIR RETURN. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. COORDINATE COLOR TO MATCH WITH ADJACENT EXISTING HOSPITAL STANDARD, FIELD VERIFY.
- 26.03 LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

GENERAL NOTES



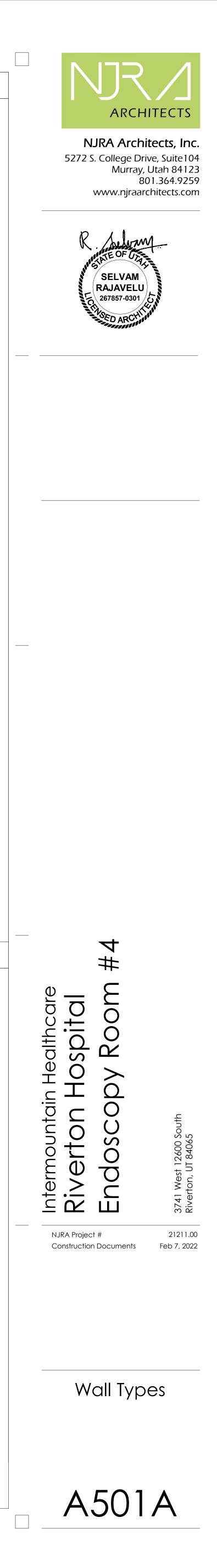


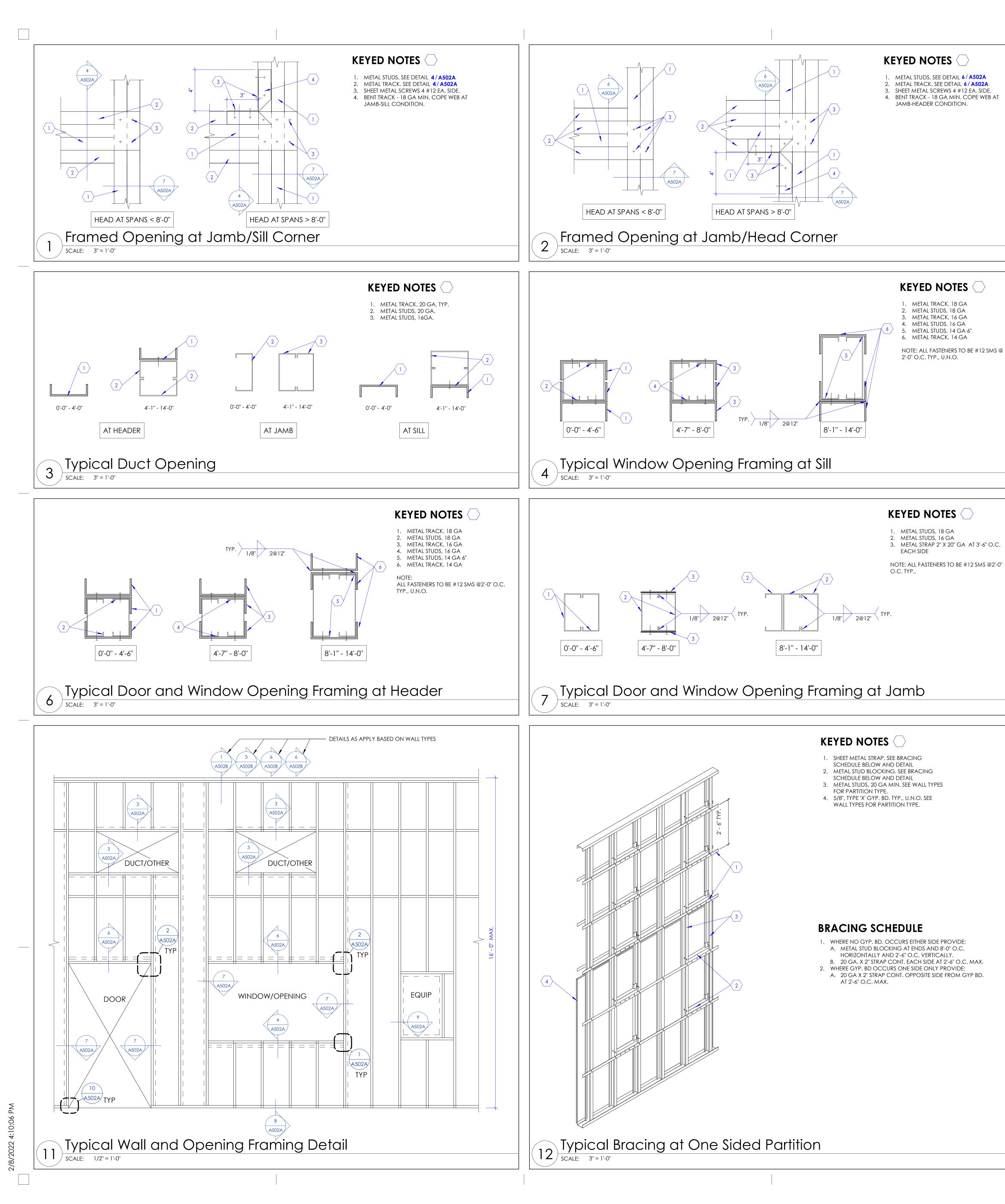
KEYED NOTE

- 1. LINE OF FLOOR OR ROOF DECK AS OCCURS.
- 2. TO ACCOMMODATE FOR STRUCTURE DEFLECTION, PROVIDE SLIP CONNECTION BETWEEN TOP RUNNER TRACK AND METAL STUD FRAMING. SEE DETAIL 9 / A502B 3. STUD FRAMING AROUND DUCT OPENINGS. SEE DETAIL 11/A502A
- 4. METAL STUDS, 20 GA STRUCTURAL (33 MILS) AT 16" O.C, U.N.O. BASED ON WALL TYPES INDICATED IN FLOOR PLAN, PROVIDE STUD SIZE AS INDICATED IN WALL TYPES WITH TRACK RUNNERS AT TOP AND BOTTOM. FOR STUD FRAMING AROUND DOOR AND WINDOW OPENINGS, SEE DETAIL 11/A502A
- 5. LINE OF CEILING AS OCCURS. SEE REFLECTED CEILING PLAN. 6. STEEL STUDS. "C-H' SHAPED, 20 GA STRUCTURAL AT 24" O.C.
- 7. PROVIDE ACOUSTIC INSULATION BLANKET FOR FULL DEPTH OF THE STUD CAVITY THROUGHOUT, UNO. FOR 4" & 3 5/8" STUDS PROVIDE R-13 UNFACED BATT INSULATION AND FOR 6" STUDS PROVIDE R-19 UNFACED BATT INSULATION. PROVIDE KRAFT FACED INSULATION FOR ALL APPLICATIONS AT EXTERIOR WALLS. 8. GYPSUM BOARD, 5/8" THICK, TYPE 'X', U.N.O, ATTACHED TO METAL STUD
- FRAMING. SEE GENERAL NOTE 'B' BELOW. 9. ANCHOR BASE TRACK TO CONCRETE FLOOR BELOW. SEE DETAIL 8/A502A
- 10. FILL GAP BETWEEN DECK AND METAL TRACK TOP RUNNER WITH FIRESTOP SEALANT. SEAL TIGHTLY AROUND ALL PIPES, CONDUITS, DUCTS, ETC. ON EACH SIDE OF THE FIRE BARRIER WALL (CONTINUOUS) WITH APPROVED FIRESTOP SEALANT INSTALLED AROUND ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE BARRIER.
- 11. FILL GAP BETWEEN DECK AND METAL TRACK TOP RUNNER WITH ACOUSTIC SEALANT. SEAL TIGHTLY AROUND ALL PIPES, CONDUITS, DUCTS, ETC. ON EACH SIDE OF THE WALL (CONTINUOUS) AND AROUND ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE WALL.
- 12. STOP GYPSUM BOARD 1/4" ABOVE THE FLOOR TYP. ON EACH SIDE OF WALL. PROVIDE ACOUSTIC SEALANT AT SOUND WALLS AND FIRESTOP SEALANT AT RATED WALLS ON EACH SIDE OF THE WALL (CONTINUOUS).
- 13. OUTLET BOX AS OCCURS. PROVIDE FIRE BARRIER MOLDABLE PUTTY PADS AND FIRESTOP SEALANT AROUND ELECTRICAL BOXES AT ALL RATED WALLS AND SOUND BARRIER WALLS AND AT BACK TO BACK ELECTRICAL BOXES AT SMOKE PARTITION WALLS, TYP.
- 14. PROVIDE STRAPPING AND BLOCKING AT FURRING WALL. SEE DETAIL 12/A502A 15. LINE INDICATES EXISTING WALL OR STRUCTURE. PROVIDE 1/4" AIR GAP.
- 16. GYPSUM BOARD SHAFT LINER PANEL, 1" THICK, TYPE 'X', ATTACHED TO C-H STUDS. 17. STEEL RUNNER, 'J' SHAPED WITH UNEQUAL LEGS OF 1" AND 2", 20 GA, ATTACHED TO FLOOR AND STRUCTURE ABOVE WITH FASTENERS LOCATED NO GREATER THAN 2" FROM ENDS AND NO MORE THAN 24" O.C. RUNNERS SHOULD BE
- POSITIONED WITH SHORT LEG TO FINISHED SIDE OF WALL. 18. STOP STUD RUNNER AT BASE PLATES.
- 19. STEEL PLATE, 3/8" THICK WITH 4-1/2" DIA. HILTI-HY200 EPOXY ANCHORS WITH 2-3/8" HILTI-HIT -2 ANCHORS. EMBED INTO CONCRETE 2-3/8". 20. TUBE STEEL 3" x 3" x 3/16" AT 6'- 0" O.C.
- 21. WALL CAP. SOLID SURFACE MATERIAL ATTACHED TO WALL BELOW. 22 PLYWOOD, 3/4" THICK, CONTINUOUS FIRE TREATED. ATTACH PLYWOOD TO
- VERTICAL STEEL TUBE POST WITH 'L' SHAPED METAL CLIPS AND FASTENERS. 23. PROVIDE 1/4" RADIUS ROUNDED EDGE, CONTINUOUS. 24. METAL STUDS 16 GA STRUCTURAL (35 MIL) AT 16" O.C. PROVIDE RUNNERS AT TOP
- AND BOTTOM. ATTACH TOP RUNNER TO PLYWOOD AND VERTICAL STEEL POST. 25. LINE OF FLOOR. 26. RESILIENT CHANNEL, 2" X 1/2", INSTALLED HORIZONTALLY AND SPACED AT 24"
- 27 WHERE CONDITIONS PROHIBIT EXTENDING STUDS TO DECK, PROVIDE CROSS BRACING FROM TOP RUNNER OF WALL TO STRUCTURE ABOVE WITH 3-5/8" 20 GA STUDS AT 4' - 0" O.C. ALTERNATE DIRECTION OF BRACING TO STRUCTURE EVERY 48" AS CONDITIONS ALLOW.
- 28 TOP TRACK. 18 GA. REQUIRED AT CROSS-BRACED WALLS.

GENERAL NOTES

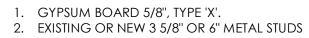
- A. CONTRACTOR SHALL VERIFY ITEMS LIKE SEMI OR FULLY RECESSED MISCELLANEOUS BOXES, PANELS, PLUMBING LINES, CONDUITS, PIPES, ETC. THAT ARE CONCEALED IN THE WALL. IF 3-5/8" METAL STUDS ARE INADEQUATE, CONTRACTOR SHALL NOTIFY THE ARCHITECT AND USE 6" STUDS. COORDINATE WITH ALL THE CONSULTANT DRAWINGS PRIOR TO WALL CONSTRUCTION AND USE 6" OR 8", 20 GAUGE METAL STUDS FOR FRAMING IN LIEU OF 3-5/8" METAL STUDS.
- USE 5/8" CEMENTITIOUS BOARD IF CERAMIC OR PORCELAIN WALL TILES ARE INDICATED IN THE FINISH SCHEDULE AS WALL FINISH. CEMENTITIOUS BOARD SHALL EXTEND FROM FINISHED FLOOR TO HEIGHT OF TILE. 5/8" WATER RESISTANT GYPSUM BOARD TO BE USED ABOVE TILE HEIGHT IN RESTROOMS. SEE FLOOR PLANS FOR CERTAIN UNIQUE LOCATIONS THAT REQUIRE LEAD LINED GYPSUM BOARD, IMPACT RESISTANT GYPSUM BOARD, SOUND ATTENUATION GYPSUM BOARD, ETC.
- PROVIDE CONTROL JOINT AS PER DETAIL 14/A502A WHEN LENGTH OF GYPSUM BOARD EXCEEDS 50' IN ONE DIRECTION OR AS DIRECTED BY ARCHITECT. COORDINATE WITH ARCHITECT FOR CONTROL JOINT LOCATIONS. WHEN GYPSUM BOARD OR CEMENTITIOUS BOARD IS ATTACHED VERTICALLY, USE 1" LONG #6 DRYWALL SCREWS TO EACH STUD. SCREWS ARE 8" O.C. AT PERIMETER AND 12" A INTERMEDIATE STUD. WHEN GYPSUM BOARD IS ATTACHED HORIZONTALLY TO STUDS, HORIZONTAL JOINTS SHALL BE STAGGERED WITH THOSE ON THE OPPOSITE SIDE. SCREWS FOR HORIZONTAL APPLICATION SHALL BE 8" O.C. AT VERTICAL EDGES AND 12" O.C. AT INTERMEDIATE STUDS.
- D. FOR LOCATION OF FIRE RATED WALLS AND SMOKE PARTITION WALLS SEE CODE COMPLIANCE PLAN. E. SEE DIMENSION FLOOR PLANS FOR WALL TYPES USED IN THIS PROJECT. SOME WALL
- TYPES MAY NOT BE USED IN THIS PROJECT. WHERE LEAD LINED WALLS ARE INDICATED ON THE DRAWINGS, USE 16 GA STUDS IN LIEU OF THE GAUGE OF STUDS CALLED OUT IN THE WALL TYPES.
- IN PLACES WHERE MECHANICAL DUCTS ARE DESIGNED TO PENETRATE THE FLOOR, TO MEET THE REQUIREMENTS OF FIRE RATING, PROVIDE A TWO-HOUR FIRE RATED ENCLOSURE AT TOP AND BOTTOM OF SHAFT AS INDICATED IN DETAILS 5/A502B AND 8/A502B
- H. IN PLACES WHERE A TWO-HOUR HORIZONTAL ENCLOSURE IS REQUIRED TO SEPARATE THE DUCTS FROM THE SPACE BELOW, PROVIDE A TWO-HOUR FIRE RATED HORIZONTAL ASSEMBLY AS PER DETAILS 5/A502B AND 8/A502B IN PLACES WHERE BACKING IS REQUIRED IN WALLS TO SUPPORT WALL HUNG
- EQUIPMENT, CABINETS, ETC. PROVIDE BACKING IN WALL PER DETAILS 5/A502A AND 13/A502A







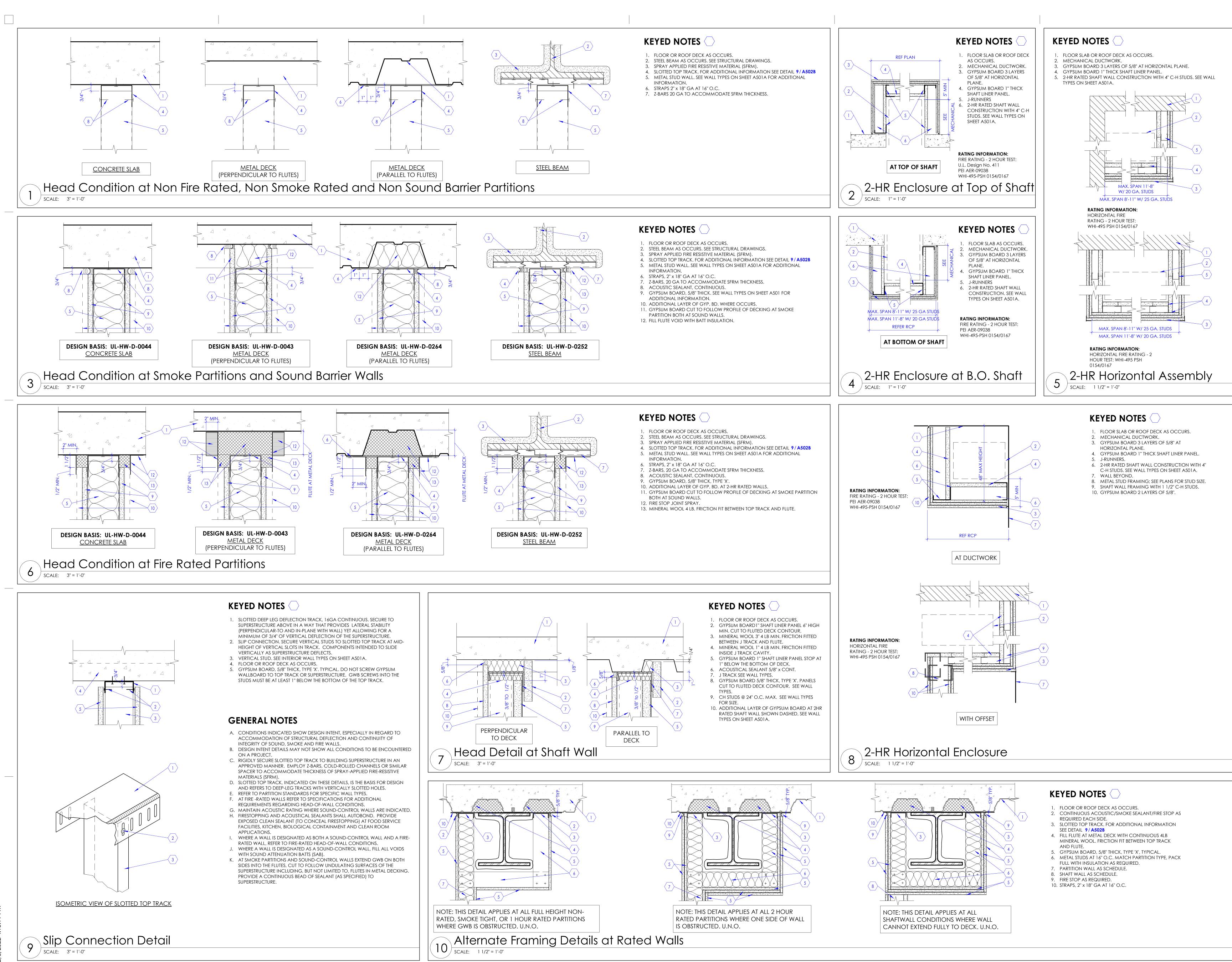




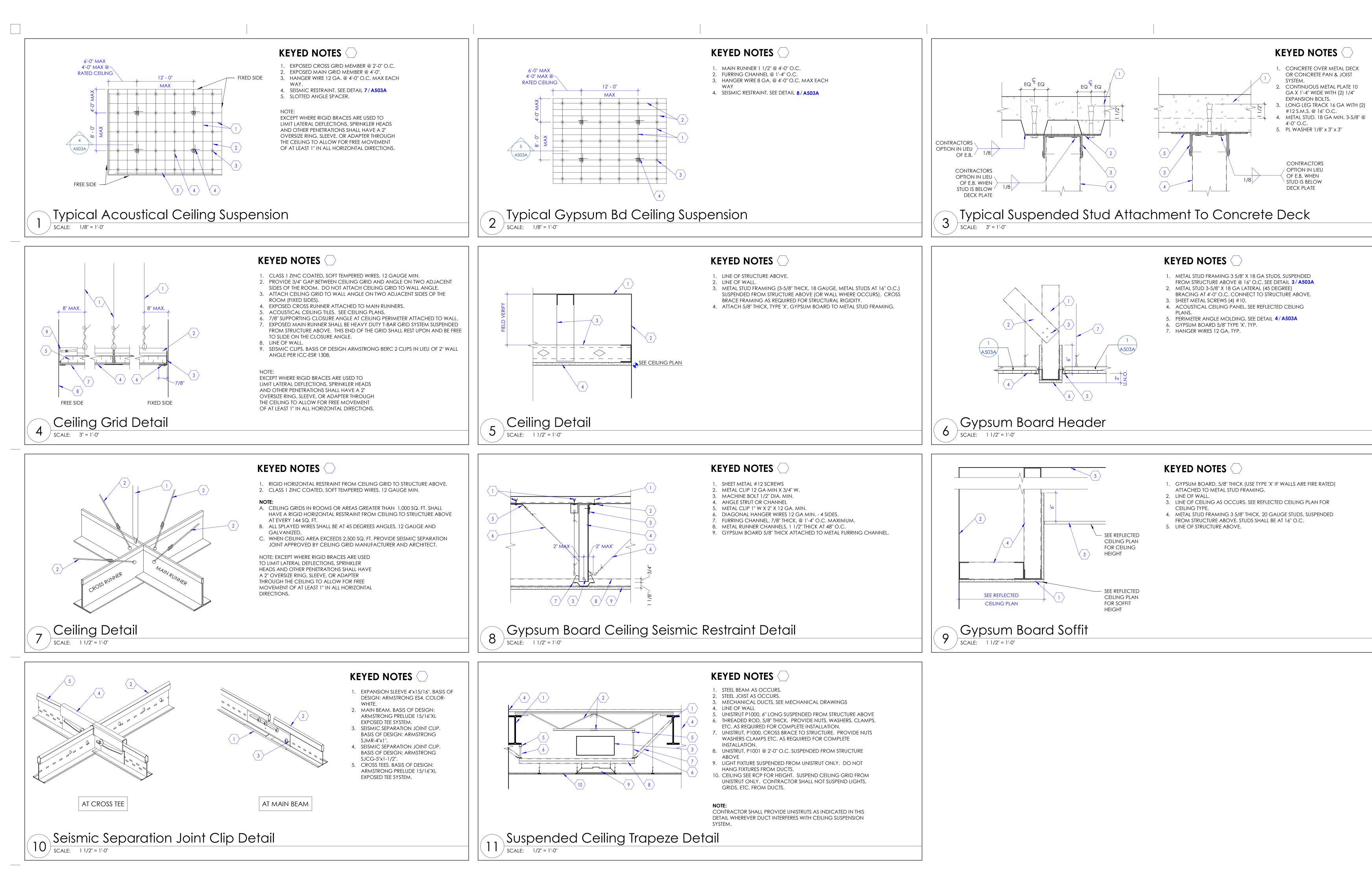
- AT 16'' O.C. 3. METAL STUD BLOCKING 6" X 16" GA. EXTEND BLOCKING TO NEXT STUD BEYOND
- EQUIPMENT -TYPICAL BOTH SIDES. 4. SHEET METAL BACKING 6" X 16" GA. EXTEND
- BLOCKING TO NEXT STUD BEYOND EQUIPMENT - TYPICAL BOTH SIDES. 5. SHEET METAL SCREW 3 #10 AT EACH STUD
- 6. WHERE WALL TYPE INCLUDES RESILIENT CHANNELS, USE ADDITIONAL CHANNELS AS FURRING FOR BACKING AS REQUIRED.

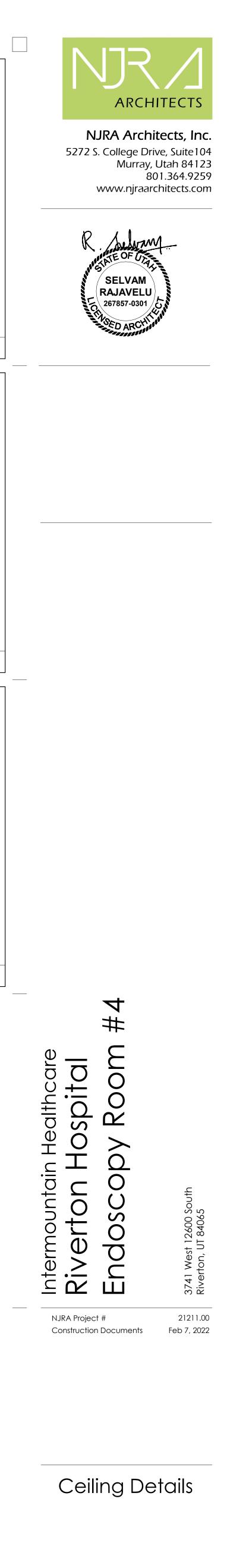
- 1. EXTEND BACKING PLATE TO NEXT STUD BEYOND SIDE OF FIXTURE OR <u>TYPE '1'</u> ACCESSORIES - BOTH SIDES. BACKING 2. PROVIDE METAL SLEEVES THROUGH WALL FINISH AT FIXTURE AND EQUIPMENT FASTENING. 3. FOR MECHANICAL WORK ANCHORAGE SEE MECHANICAL DRAWINGS. <u>TYPE '2'</u> BACKING Backing Plate Schedule 5 SCALE: 3" = 1'-0" **KEYED NOTES** KEYED NOTES METAL STUDS. SEE WALL TYPES.
 POWDER DRIVEN PINS .014" METAL STUDS. SEE WALL TYPES.
 POWDER DRIVEN PINS .014" DIA. WITH DIA. WITH 1-1/4" MIN. EMBED 1-1/4" MIN. EMBED AT 2'-0" O.C. AND AT 2" FROM THE ENDS. AT 2" FROM THE ENDS. METAL TRACK - 18 GA MIN.
 SHEET METAL SCREWS #12 EA. SIDE. 3. METAL TRACK - 18 GA MIN. 4. SHEET METAL SCREWS #12 EA. 5. BENT TRACK - 18 GA MIN. SIDE. Base Track Detail (8) SCALE: 3" = 1'-0" BASE AT SPANS > 8'-0" **KEYED NOTES** 1. HANDRAIL OR CORNER GUARD AS OCCURS. 2. SEE WALL TYPES FOR PARTITION TYPE. GYPSUM BOARD, 5/8" TYPE 'X', CONTINUOUS ON ALL SIDES BEHIND EQUIPMENT. 4. CLIP ANGLE 2" X 2" X 20" GA MIN. CONT. 5. RECESSED EQUIPMENT AS OCCURS. PLAN VIEW, 2" Section SHALL BE BASE AT SPANS < 8'-0" SIMILAR Detail at Recessed Equip. Framed Opening at Jamb 10) SCALE: 3" = 1'-0" 9 SCALE: 3" = 1'-0" **KEYED NOTES** KEYED NOTES 1. GYPSUM BOARD, ATTACHED TO METAL STUD FRAMING. SEE WALL TYPES AND WALL SECTIONS FOR GYPSUM BOARD TYPE. METAL STUDS, 3 5/8" THICK. 16 GA AS SHOWN. 2. EXPANSION JOINT ("E-Z STRIP, V-SHAPED VINYL EXPANSION JOINT BY NATIONAL 8" WIDE X (HEIGHT OF WALL BRACKET + 6") HIGH X 16 GYPSUM COMPANY OR EQUIVALENT) ATTACHED TO GYPSUM BOARD. GA BACKING PLATE. ANCHOR TO 16 GA STUDS. . METAL STUDS. SEE WALL TYPES AND WALL SECTIONS FOR STUD SIZE, THICKNESS, SHEET METAL SCREWS #10 THROUGHOUT 9/64" GAUGE, SPACING, ETC. DIAMETER HOLES AT 18" O.C. 4. TWO LAYERS OF TYPE 'X' GYPSUM BOARD, 5/8" THICK, ATTACHED TO STUDS WITH GYPSUM BOARD, 5/8" THICK, TYPE 'X', TYPICAL U.N.O DRYWALL SCREWS, 1-5/8" @ 24" O.C. USE NON FIRE RATED GYPSUM BOARD IF ERGOTRON LX WALL MOUNT BRACKET, TV BRACKET, PHYSIOLOGICAL MONITOR, ETC O.F.C.I. WALLS OR CEILING ARE NOT FIRE RATED. NOTE: PROVIDE JOINT AT EVERY 50'-0" OF WALL THAT RUNS IN THE SAME DIRECTION. PRIOR TO INSTALLATION OF JOINTS, GET APPROVAL FROM ARCHITECT FOR CONTROL JOINT LOCATIONS IN WALL. PLAN VIEW ______5 1/2"~ 14 Control Joint - Gypsum Board Plan Detail at Bracket 13) FIGHT DE SCALE: 3" = 1'-0"
- **GENERAL NOTES**











A503A

DUCTWORK/GRILLES

	LES
	POSITIVE PRESSURE DUCT - RISE
	POSITIVE PRESSURE DUCT - DROP
	NEGATIVE PRESSURE DUCT - RISE
	NEGATIVE PRESSURE DUCT - DROP
	ROUND DUCT - RISE
	ROUND DUCT - DROP
	UNDER FLOOR DUCT
	TURNING VANES
	TURNING VANES
	FRESH AIR LOUVER
	RELIEF AIR OR EXHAUST AIR LOUVER
12X12 200	CEILING SUPPLY DIFFUSER
22X22 200	CEILING RETURN REGISTER
12X12 200	CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF
24X10	RETURN CFM IS NOT SHOWN) SIDEWALL SUPPLY REGISTER
200 24X10	REGISTER FIGURE INDICATES CFM. SIDEWALL EXHAUST OR RETURN REGISTER
	CEILING SUPPLY DIFFUSER
	WITH FLEXIBLE DUCT CEILING AIR GRILLE WITH
	FLEXIBLE DUCT
	W/ SOUND BOOT LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT
	CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
·	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
12/8 FO	DIMENSIONS SHOWN IN INCHES.
12/8	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
120	ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	INCLINED RISE WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS
R	R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND
12/12 8/8	DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
12/12 12ø	RECTANGULAR TO ROUND DUCT TRANSFORMATION BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN.
	R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
-1.5D -1.25D -7 5° - ↓ D _ ↓ D	TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
	HIGH EFFICIENCY FITTING
	MANUAL VOLUME DAMPER
FD FD	FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
FSD FSD FSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
SD SD	SMOKE DAMPER W/ ACCESS PANEL
BDD	BACK DRAFT DAMPER
	ATC DAMPER
	ACCESS PANEL IN DUCT OR PLENUM
	HEATING OR COOLING COIL IN DUCT
	SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET
	SIZE STRAIGHT DUCT AT TERMINAL INLET. 4-WAY BLOW
	PATTERN 3-WAY BLOW
	PATTERN 2-WAY BLOW
	2-WAY BLOW
	PATTERN
	1-WAY BLOW PATTERN DUCT SMOKE DETECTOR

OF MECHANICAL SYMBOLS AND ABBREVIATIONS **LEGEND**

<u>PIPING</u>

ATC - 2 WAY VALVE

ATC - 3 WAY VALVE

SOLENOID VALVE

CALIBRATED BALANCING VALVE WITH GPM INDICATED

VENTURI FLOW METER

FLOW METER ORIFICE

RELIEF VALVE

AIR VENT-MANUAL

AIR VENT-AUTO

FLOW SWITCH

TEST PORT

UNION

FLANGE

REDUCER

PRESSURE SWITCH

THERMOMETER WELL

PRESSURE GAUGE WITH SHUT OFF PLUG VALVE

PRESSURE GAUGE WITH PIGTAIL

FLEXIBLE EXPANSION JOINT

ECCENTRIC REDUCER

BRANCH - BOTTOM CONNECTION

BRANCH - TOP CONNECTION

BRANCH - SIDE CONNECTION

RISER - DOWN (ELBOW)

ARROW INDICATES DIRECTION OF FLOW IN

LEADER INDICATES DOWNWORD SLOPE

RISER - UP (ELBOW)

PIPE CAP

PIPE

VALVE IN RISE

90° ELBOW

45° ELBOW

ANCHOR

ALIGNMENT GUIDE

RISE OR DROP

TEMPERATURE AND PRESSURE

THERMOMETER - TEMP RANGE AS INDICATED

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LEGEND OF MECHA	NICAL SYM
	PLUMBING
SHUT OFF VALVE	0
BALL VALVE	əX
BUTTERFLY VALVE	
MOTOR OPERATED BUTTERFLY VALVE	0
GATE VALVE	6 ^{FCO} COTG
GATE VALVE - NON RISING STEM	Ø
ANGLE VALVE	Î
GLOBE VALVE	O VTR
PLUG VALVE	T T
SHUT OFF PLUG VALVE FOR FOR USE WITH PRESSURE GAUGE	
CHECK VALVE	
LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN	
F&T=FLOAT & THERMOSTATIC	(NAME)
REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN	<u> </u>
PRESSURE REDUCING VALVE EXTERNAL PRESSURE	
PRESSURE REDUCING VALVE SELF CONTAINED	

2	THERMOSTATIC MIXING VALVE
ð.	HOSE BIBB
	FLOOR SINK
€	FLOOR DRAIN
<mark>●</mark> FCO COTG	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
o VTR	VENT THRU ROOF
	WATER HAMMER ARRESTOR
—	CLEAN-OUT
/ §၊	FILL PORT
۲́	DRAIN PAN AND P-TRAP
),	FIXTURE FROM LEVEL ABOVE
≺ -× -	DEMOLITION

EQUIPMENT

ď	UNIT HEATER
	INLINE PUMP
	INLINE PUMP
	FAN

INLINE PUMP
INLINE PUMP
FAN

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HOSE VALVE

NRS GATE VALVE WIT	Ή
SUPERVISION	

FLOW SWITCH

FIRE RISER

SPRINKLER HEAD

FIRE SPRINKLER WATER

<u>ANNOTATIONS</u>

<u>P-1</u>	PLUMBING FIXTURES POINT OF CONNECTION
A M-101	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
A M101	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
(EF)	EQUIPMENT IDENTIFICATION
1	KEYED NOTE IDENTIFICATION
S	SWITCH
S	SENSOR
Ū	THERMOSTAT
(T)N	NIGHT THERMOSTAT

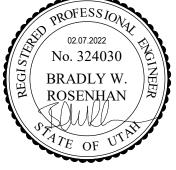
LINETYPES

ACID VENT _____AV _____ _____AW_____ ACID WASTE ——— BBD ——— BOILER BLOW DOWN BOILER FEED WATER BRINE ——— В———— CARBON DIOXIDE _____C02_____ COMPRESSED AIR _____CA_____ CHEMICAL FEED _____CF_____ -----CHWS------CHILLED WATER SUPPLY CHILLED WATER RETURN -----CHWR-------CONDENSER WATER SUPPLY _____CS_____ _____CR_____ CONDENSER WATER RETURN DOMESTIC COLD WATER (DCW) _____ DOMESTIC HOT WATER (DHW) _____ DOMESTIC HOT WATER RETURN _____ (DHWR) DEIONIZED WATER SUPPLY ——— DI ——— _____DIR_____ DEIONIZED WATER RETURN —— E(NAME)—— EXISTING PIPING EXISTING PIPING TO BE \rightarrow (NAME) \rightarrow REMOVED GLYCOL HEAT RECOVERY PIPING ------GHR-------——— G(NAME) ——— GLYCOL PIPING SOLUTION _____FOR_____ FUEL OIL RETURN FUEL OIL SUPPLY ------FOS-------_____FOV_____ FUEL OIL VENT ——_____FVS—_____ FLUSH VALVE SUPPLY _____G_____ NATURAL GAS ———HG——— HOT GAS HELICOPTER FUEL RETURN HELICOPTER FUEL SUPPLY —— HP(NAME) —— HIGH PRESSURE DOMESTIC WATER HIGH PRESSURE CONDENSATE ———HPC ——— ——— HPS ——— HIGH PRESSURE STEAM ———HWR——— HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY _____HWS_____ _____IA_____ INSTRUMENT AIR INSTRUMENT AIR AT PRESSURE INDICATED ——IA 120 —— _____ICW_____ INDUSTRIAL COLD WATER _____IHW_____ INDUSTRIAL HOT WATER INDUSTRIAL HOT WATER RETURN -----ISCW------INDUSTRIAL SOFT COLD WATER _____LA_____ LAB AIR _____LV_____ LAB VACUUM _____ LPC _____ LOW PRESSURE CONDENSATE LIQUIFIED PETROLEUM GAS ------LPG------LOW PRESSURE STEAM _____ LW _____ LAB WATER _____LWR_____ LAB WATER RETURN MEDICAL AIR _____MA_____ MEDICAL AIR AT PRESSURE INDICATED ——MA 120 —— MEDIUM PRESSURE CONDENSATE _____MPC_____ MEDIUM PRESSURE STEAM _____MPS_____

LINETYPES CONT.

MUW	MAKE UP WATER
MV	MEDICAL VACUUM
N	NITROGEN
N20	NITROUS OXIDE
OX	MEDICAL OXYGEN
OX 120	MEDICAL OXYGEN AT PRESSURE INDICATED
PC	PUMPED CONDENSATE
RO	REVERSE OSMOSIS WATER SUPPLY
ROR	REVERSE OSMOSIS WATER RETURN
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
SW	SOFT DOMESTIC WATER
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
V	VACUUM
	VENT (SEWER)

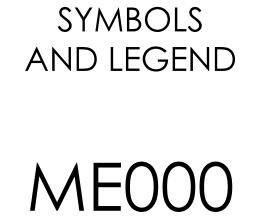






NJRA Project # 95% Review Set

21211.00 December 7, 2021



MECHANICAL

MEDICAL GAS (

- MEDICAL GAS PIPING IS TO BE RUN OTHERWISE. COORDINATE PIPING CONFLICTS SUCH AS DUCTWORK, STRUCTURE, ETC.
- ALL PIPE AND DUCT SIZES SHALL R DIRECTION OF FLOW, UNTIL SHOWN 3. SLEEVE PIPING THRU WALLS/FOUN
- MEDICAL GAS PIPING IS SCHEMAT ROUTING AND COORDINATE WITH A
- 5. NO PIPING TO RUN OVER ELECTRIC
- EQUIPMENT WITH A 42" DEEP ZONE MOUNT ALL SERVICE VALVES NEAF

FIRE PROTECTION

- 1. NO FIRE PROTECTION LINE SHALL BE COORDINATION WITH ALL OTHER DIS AND PLUMBING TAKE SPACE PRECEI FAILURE TO COMPLY WILL RESULT I REINSTALLATION AT THE FIRE PROTI
- 2. ALL WORK DONE SHALL BE PERFORM CONTAINMENT OF WATER IS NECESS SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF F LIGHTS, REFLECTED CEILING PLANS, DUCTWORK, MECHANICAL AND PLUM ALL EXISTING CONDITIONS.
- 4. FIRE SUPPRESSION CONTRACTOR S REROUTE ANY AND ALL FIRE PROTE SYSTEMS, OTHERWISE WITHIN THE OF WHO INSTALLED THEM OR WHEN ACCOMMODATE MECHANICAL. PLUM COORDINATE WORK WITH MECHANIC CONTRACTORS UNTIL SUBSTANTIAL

GENERAL NOTES		PLUMBING GENERAL NOTES
N ABOVE THE CEILING, UNLESS NOTED S ROUTING WITH ALL OTHER POSSIBLE DIFFUSERS, OTHER PIPING, LIGHTS, CONDUIT,	1.	UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT.
REMAIN THE SAME SIZE SHOWN, IN THE /N OTHERWISE.	2.	ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
NDATIONS WHERE REQUIRED.	3.	PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
IC IN NATURE. FIELD VERIFY EXACT PIPE ALL OTHER TRADES.	4.	ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
CAL PANELS, VFD'S OR MCC'S. PROTECT E IN FRONT OF PANELS, VFD'S, AND MCC'S.	5.	NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
R CEILING HEIGHT FOR ACCESSIBILITY.	6.	COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL LOCATIONS.
	7.	CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
N GENERAL NOTES	8.	PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING, IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
E DESIGNED OR INSTALLED PRIOR TO CLOSE SCIPLINES. DUCTWORK, MECHANICAL PIPING DENCE OVER FIRE PROTECTION PIPING. N THE FIRE PROTECTION REMOVAL AND	9.	REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
ECTION CONTRACTORS EXPENSE.	10.	CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL
MED WITH WATER CONTROL IN MIND. SARY TO PREVENT WATER FROM DAMAGING	44	
PIPING WITH STRUCTURAL MEMBERS,	11. 12.	LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
, CABLE TRAY, ELECTRICAL CONDUITS, MBING PIPING, AND ALL OTHER TRADES AND	13.	INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
SHALL BE RESPONSIBLE TO REMOVE AND/OR CTION PIPING, VALVING, SUPPORTS OR FIRE SUPPRESSION DISCIPLINE REGARDLESS	14.	MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
N THEY WERE INSTALLED, IN ORDER TO IBING, ELECTRICAL OR OTHER SYSTEMS. CAL, ELECTRICAL, PLUMBING OR OTHER	15.	INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
COMPLETION OF PROJECT.	16.	COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
	17.	COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
	18.	COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
	19.	ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN

WALLS OR ABOVE CEILINGS.

LOCATION UNDER THE LAVATORY.

LOCATED ABOVE A HARD CEILING.

DOMESTIC WATER TO/FROM SINGLE FIXTURE.

20. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE. VENT AND

21. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE

ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND FIRE PROTECTION

ACCESSIBLE LOCATIONS. PROVIDE 24"X24" ACCESS PANEL WHERE ITEM IS

a) SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR

LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.

b) LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND

22. COORDINATE EXACT LOCATION OF PLUMBING PIPING WITH STRUCTURAL

MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY,

PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.

23. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN

24. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE

25. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT

c) LOCATE AT THE BASE OF EACH VERTICAL STACK.

DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.

SMALLER AND 100 FT FOR LARGER PIPING.

INDICATED, ACCORDING TO THE FOLLOWING.

- UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
- 4. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT

- NOT SHOWN.
- DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.

MECHANICAL PIPING GENERAL NOTES

PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

WHERE VALVING OR EQUIPMENT IS LOCATED ABOVE HARD CEILINGS PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24"X24".

EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.

INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.

7. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.

8. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.

9. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.

10. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION. 11. PROVIDE ISOLATION VALVES AT EACH EXIT/ENTRANCE INTO SHAFT WHETHER OR

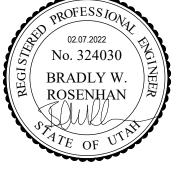
12. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE

13. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL. 14. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

MECHANICAL GENERAL NOTES

- COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
- SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
- COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST 4. REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. SEE SPECIFICATION, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
- PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE 7 DUCTWORK AT ELBOWS OR TEES, TYPICAL.
- 8. INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE, SEE DETAILS, TYPICAL.
- CONTRACTOR SHALL OFF-SET, TRANSITION AND PROVIDE CHANGES AS 9 REQUIRED FOR COORDINATION WITH OTHER TRADES, TYPICAL.
- 10. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER.
- 11. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS, SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
- 12. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK.
- 13. PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
- 14. WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
- 15. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
- 16. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
- 17. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS. BAS DEVICES, MAINTENANCE ACCESS, ETC.
- 18. ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
- 19. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MIN. 24" X 24".
- 20. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- 21. ALL DUCTWORK ABOVE HARD CEILINGS SHALL BE EXTENDED ALL THE WAY TO THE SUPPLY DIFFUSERS, RETURN GRILLS OR EXHAUST GRILLS WHETHER OR NOT HARD DUCT OR FLEX DUCT IS SHOWN ON PLANS. FLEX DUCT WILL NOT BE ALLOWED TO DIFFUSERS OR GRILLS ABOVE HARD CEILINGS. FLEX DUCT WILL BE REQUIRED IN AREAS ABOVE T-BAR CEILINGS.
- 22. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
- 23. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- 24. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24"X24" ACCESS DOOR.

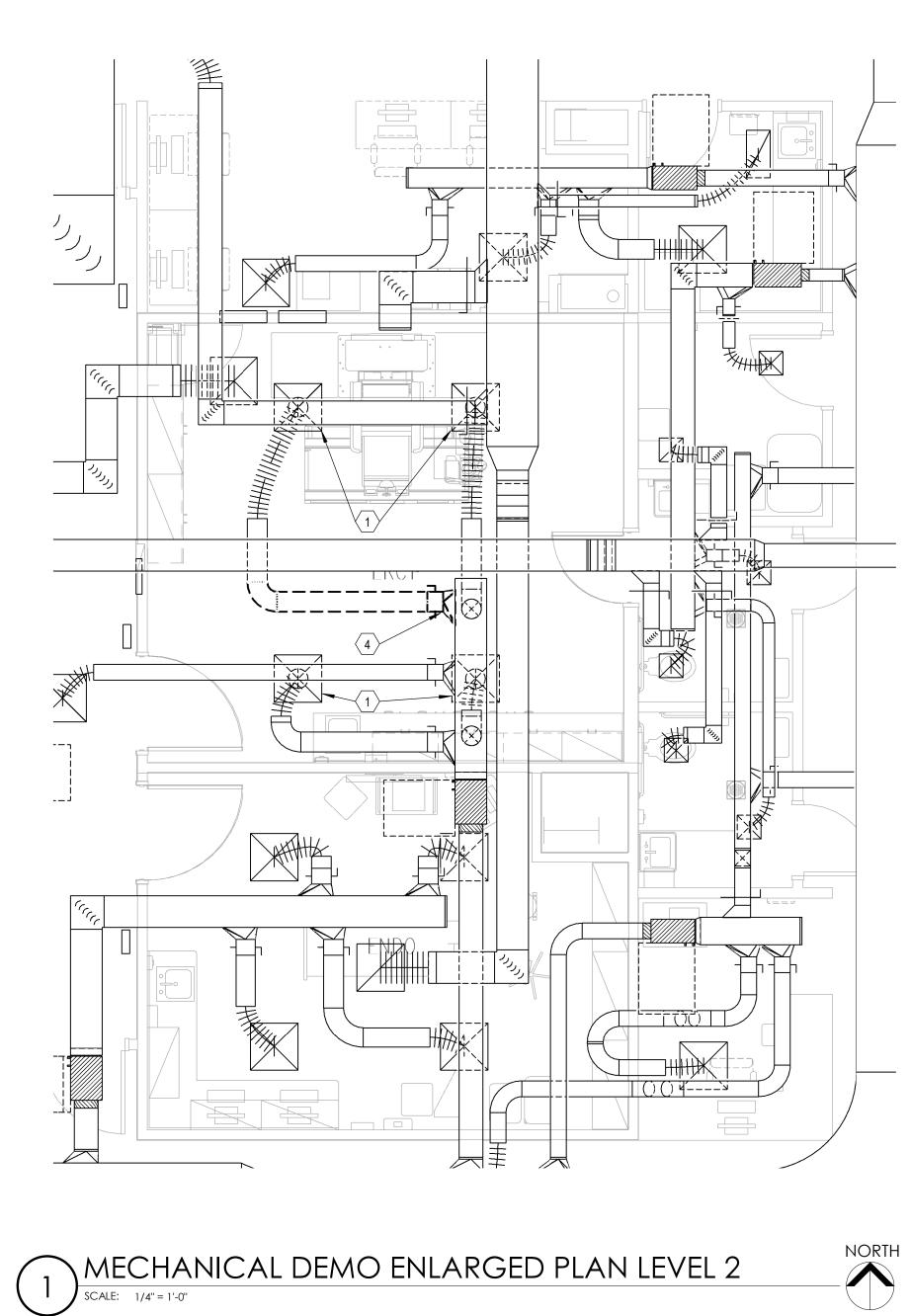




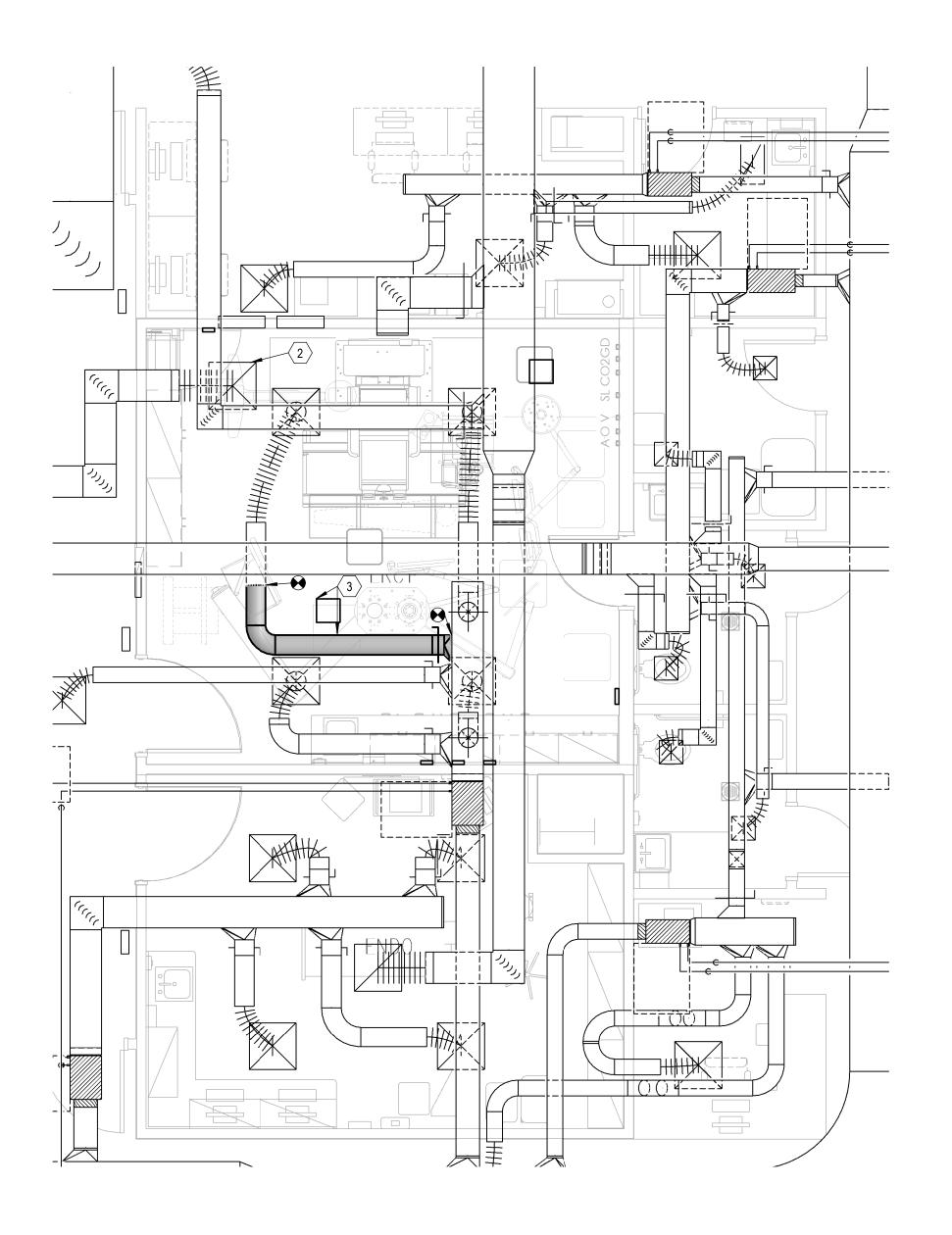


MECHANICAL GENERAL NOTES











KEYED NOTES $\langle \# \rangle$

1. EXISTING DIFFUSERS TO BE RELOCATED.

- 2. INSTALL DIFFUSERS IN HARD LID CEILING WITH MUD RING. TYPICAL.
- 3. COORDINATE BRANCH DUCT INSTALLATION WITH STRUCTURAL BOOM SUPPORT.
- 4. REMOVE AND RELOCATED HIGH EFFICIENCY BRANCH TAKEOFF.

NORTH

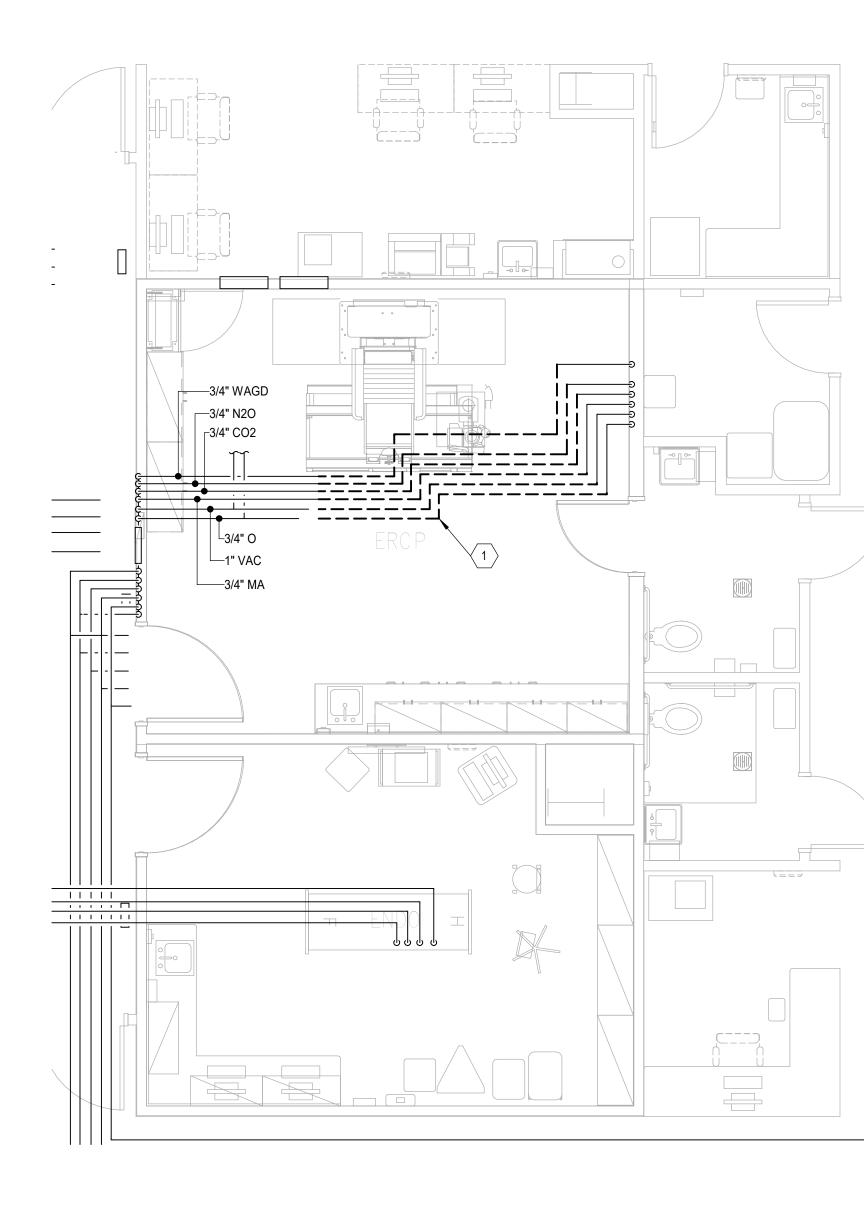




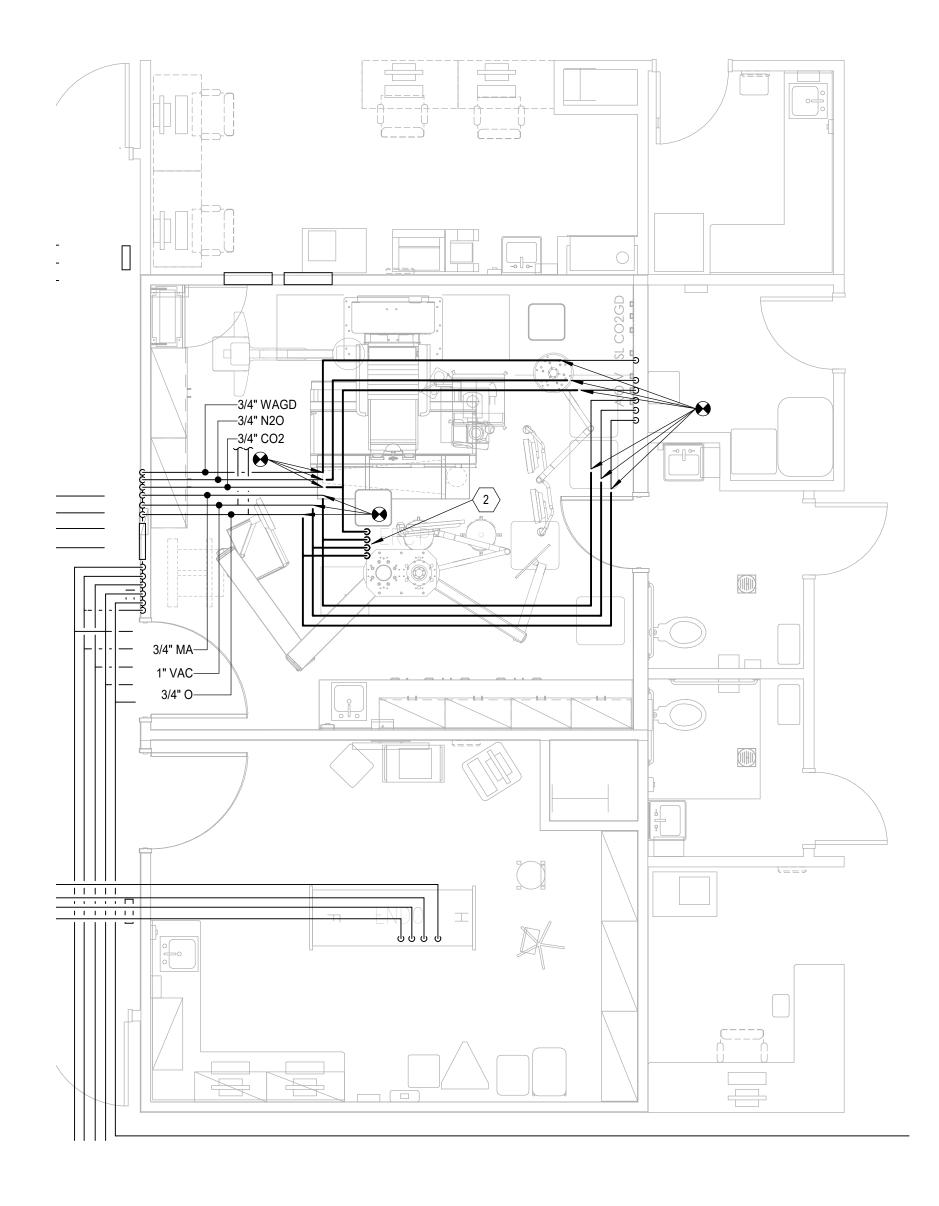


MECHANICAL PLANS











NORTH

	KEYED NOTES
1.	EXISTING PIPING TO BE DEMOLISHED DUE TO BOOM STRUCTURE INTERFERENCE.
0	

2. COORDINATE NEW PIPING CONNECTIONS TO BOOM PER MANUFACTURER REQUIREMENTS. PIPE SIZE TO REMAIN THE SAME.

NORTH





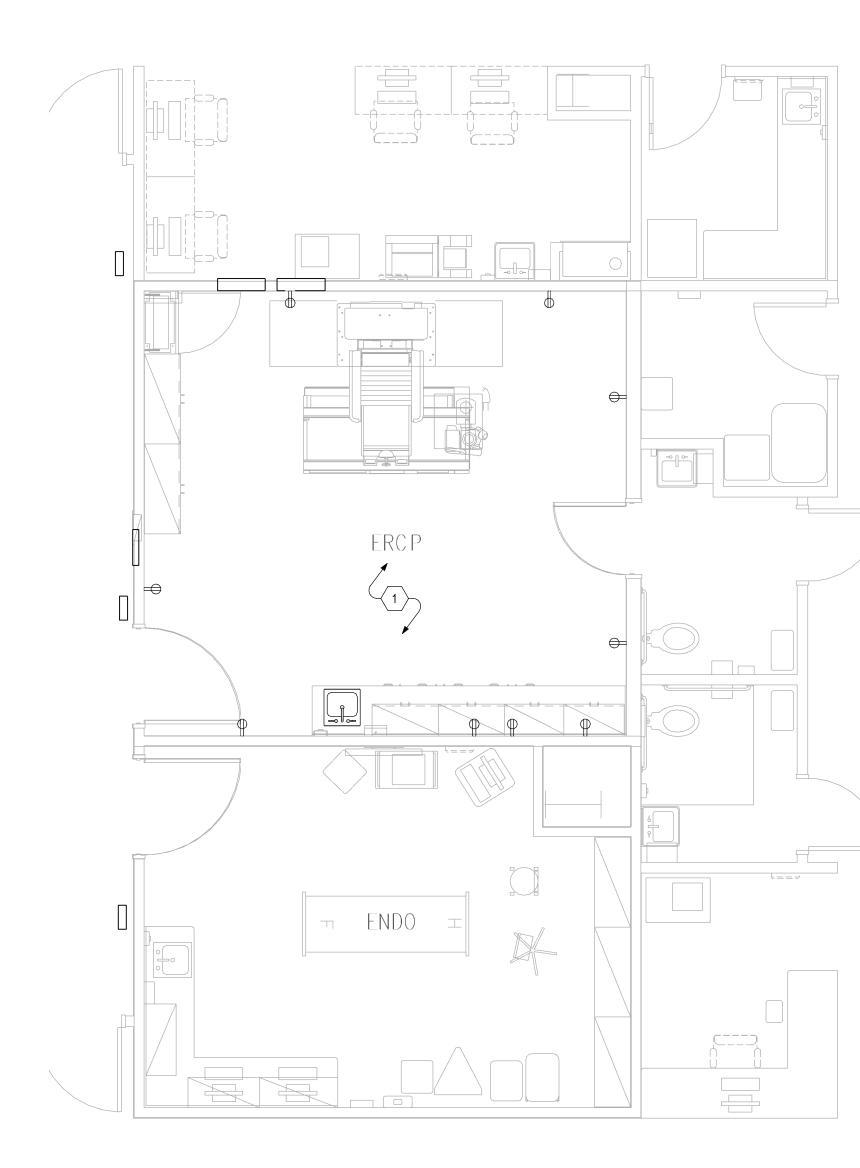


95% Review Set

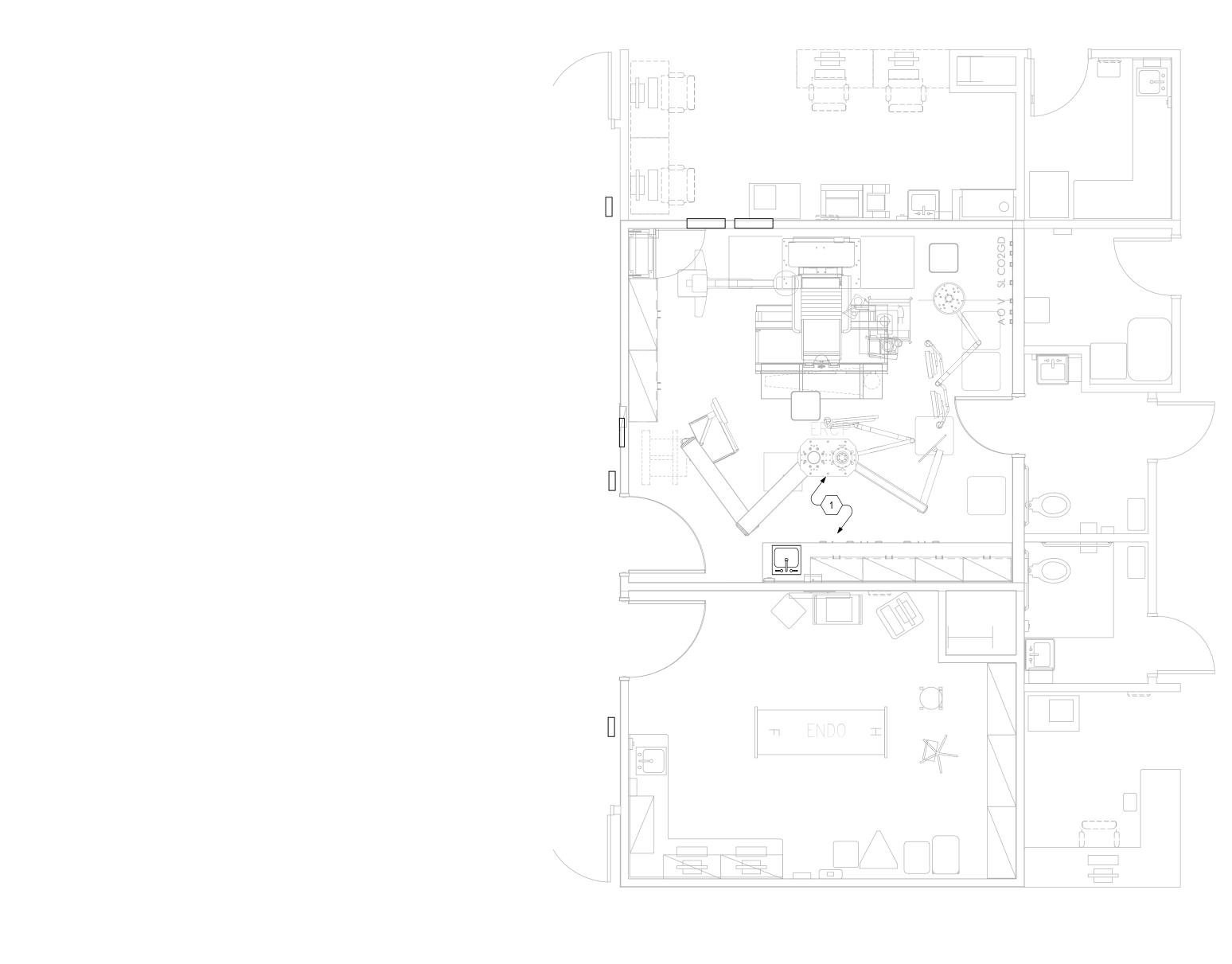
December 7, 2021







1 FIRE PROTECTION DEMO ENLARGED PLAN LEVEL 2 SCALE: 1/4" = 1'-0"





2 FIRE PROTECTION ENLARGED PLAN LEVEL 2 SCALE: 1/4" = 1'-0"

(#)	KEYED NOTES

1. RELOCATE EXISTING HEADS FOR INSTALLATION IN HARD LID CEILING. REINSTALL PER NFPA 13.

NORTH







NJRA Project # 95% Review Set 21211.00 December 7, 2021



____FP401

SYMPOL	SYMBOLS LEGEND
00	DESCRIPTION
01 A5	
E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
02	
A5	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING
E-201	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	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
$\begin{array}{c c} 04 & 100 \\ \hline 05 & 1 \\ \end{array}$	KEYNOTE INDICATOR.
	REVISION INDICATOR.
07 CU-1	EQUIPMENT INDICATOR.
08	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES
	EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDF IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
⁰⁹ ^	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
10 (BREAK, ROUND
	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
SEE XX/X-XXX 12	NEW LINE: MEDIUM LINE.
13	
14	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
15	EXISTING TO REMAIN LINE: THIN LINE.
16	
17	PROPERTY LINE: DASHED, WIDE LINE.
18	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE. ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE O
XXX EF-X	EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICA EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDUL
19	FOR ADDITIONAL INFORMATION. KITCHEN EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMEN
X-X XKP	MARK SHOWN ON EQUIPMENT SCHEDULE. "XKP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT
	SCHEDULE FOR ADDITIONAL INFORMATION.
02	
	WIRING TURNED UP OR TOWARDS OBSERVER.
04	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF
	ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.
A-1,3,5	USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
05	
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.
A-1,3,5	NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES
	EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
06	
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.
H	SMALL CROSS LINES INDICATE NUMBER OF CONDUCTORS OR CABLES. LARGER CROSS LINE INDICATES EQUIPMENT GROUN
A-1,3,5	WAVY CROSS LINE INDICATES INSULATED/ ISOLATED GROUND. FOR BRANCH WIRING, CROSS LINES INDICATE #12 CONDUCTOR
	EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATION
07	FLEXIBLE WIRING.
0000	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = :
	CATV = CABLE TELEVISION NC = NURSE CALL CCTV = CLOSED CIRCUIT P = POWER
— x —	CCTV =CLOSED CIRCUITP=POWERTELEVISIONRC=RIGID CONDUFA =FIRE ALARMS=SOUND
	FO = FIBER OPTICS T = TELEPHONE I = INTERCOM TV = TELEVISION
	OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
09	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
10 🔶	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
11 (1)	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER
¹² (HC)	ADA ACCESS PUSH PLATE
¹³ Ø	JUNCTION BOX.
¹⁴ D _{SC}	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
¹⁵ Ø _{SE}	JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
€SE 16	JUNCTION BOX, DUCT, UNDERFLOOR. TRIPLE, DOUBLE OR
	SINGLE DUCT SYSTEM AS INDICATED BY THE NUMBER OF PARALLEL LINES. DESIGNATIONS AS SHOWN FOR WIRING AND/OR RACEWAY SYMBOLS.
17	DUCT CELL FLOOR HEADER.
18 РВ	PULL BOX.
	CABLE TRAY ABOVE ACCESSIBLE CEILING.
20 WW	WIREWAY.
21	EARTH GROUND (ONE-LINE DIAGRAM).
 ²²	JUNCTION BOX, CEILING.
²³ <u>+ </u>	LADDER RACK.
24	CABLE TRAY BELOW ACCESSIBLE FLOOR.
25	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMEN

s	SYMBOL	SYMBOLS LEGEND
	IRING DE	
01	φ	RECEPTACLE, SINGLE: NEMA 5-20R.
02		RECEPTACLE, DUPLEX: NEMA 5-20R.
03	 ₿_A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
04	 ⊎_⊂	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
05	-	RECEPTACLE, DUPLEX, DEDICATED CIRCUIT: NEMA 5-20R.
06	Фо	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT
		INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE
07		MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
08	₿ IG	RECEPTACLE, DUPLEX, ISOLATED GROUND: NEMA 5-20R.
09	₿s	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
10	∯ uc	RECEPTACLE, DUPLEX, FLOOR, UNDER CARPET: NEMA 5-20R.
10	₩w	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE":
	ΨW	NEMA 5-20R.
11	₿ wp	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
12		RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
13	Ŏ	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
14	⊌	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
15	•	RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R.
16	₿	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	Щ.	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT
20	₩Р ф	INTERRUPTER, WEATHERPROOF: NEMA 5-20R. RECEPTACLE, DUPLEX, RECESSED: NEMA 5-20R.
21		
22	s ∥	RECEPTACLE, DUPLEX, SWITCHED, RECESSED: NEMA 5-20R.
23		RECEPTACLE, QUADRAPLEX: NEMA 5-20R. RECEPTACLE, QUADRAPLEX ON EMERGENCY
24	•	POWER: NEMA 5-20R.
25	<u> </u>	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
26		RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
20	•	RECEPTACLE, QUADRAPLEX, CONNECTED TO UPS: NEMA 5-20R.
	₿	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
28	Ø	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
29		RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
30	₽□	RECEPTACLE, DRYER: NEMA 14-30R.
31	₿R	RECEPTACLE, RANGE: NEMA 14-50R.
32	- <u>C</u>	RECEPTACLE, CLOCK HANGER: NEMA 5-15R.
33 D		MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
34	(D)	DROP CORD. SEE DETAIL.
35		THERMOSTAT.
36	\bigcirc	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO
	FB#	WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
37		POWER POLE. "#" SHOWN ON DRAWINGS. REFER TO WIRING
	PP#	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		
40	ф х	SWITCH, DIMMER.
41	\$ X	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
42	\$2 X	SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED).
43	\$3 X	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
44	\$4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
44 45	\$DS	SWITCH, DOOR.
	\$К	SWITCH, KEY OPERATED.
46	\$LM	SWITCH, LOW VOLTAGE MASTER.
47	\$M	SWITCH, MOMENTARY.
48	\$OS	SWITCH, OCCUPANCY SENSOR.
49	\$P	SWITCH, PILOT LIGHT.
50	\$т	SWITCH, TIMER OPERATED.
51	\$WP	SWITCH, WEATHERPROOF.
52	₿т	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.
53		RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
54	.	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT
		INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
55		RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT
56		INTERRUPTER, CONNECTED TO UPS: NEMA 5-20R. RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
57	U	
	ά	RECEPTACLE, DULEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
58		
	₩	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 DIANS FOR CONTROL METHOD)
		PLANS FOR CONTROL METHOD)

]		
		SYMBOLS LEGEND
		DESCRIPTION TRICAL AND COMMUNICATIONS UTILITIES
	01 —3ØUP—	ELECTRIC LINE: THIN LINE. $1\emptyset$ = SINGLE PHASE, $2\emptyset$ = 2-PHASE, $3\emptyset$ = 3-PHASE, 0 = OVERHEAD,
	02	U = UNDERGROUND, P = PRIMARY, S = SECONDARY
)R.	03	LIGHTNING ARRESTOR.
5-20R.		UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
ER COOLER	06 E	UTILITY, PRIMARY ELECTRICAL HAND HOLE.
ALLATION	07 M	UTILITY SERVICES, MANHOLE.
-20R.	07 C	UTILITY, COMMUNICATIONS MANHOLE.
		UTILITY, ELECTRICAL MANHOLE.
MA 5-20R.	Ţ	UTILITY, TELEPHONE MANHOLE.
Г :":	¹⁰ C	PRECAST CONCRETE, COMMUNICATION VAULT.
	11 E	PRECAST CONCRETE, ELECTRICAL VAULT.
R.	12 T	PRECAST CONCRETE, TELEPHONE VAULT.
)R.	¹³ TM	PRECAST CONCRETE, MANHOLE, TRANSFORMER VAULT.
MA 5-20R.	14 TP	PRECAST CONCRETE, TRANSFORMER PAD.
ENCY	¹⁵ H	HAND HOLE.
5-20R.	¹⁶ s	SUBSTATION.
	17 T	TRANSFORMER.
Г		AL POWER AND DISTRIBUTION
		FUSE WITH RATING (ONE-LINE DIAGRAM).
OWER:	02	
Г		DISCONNECT, FUSED (ONE-LINE DIAGRAM).
		DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
A 5-20R.	04	
IA 5-20R.		DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
MERGENCY		
IEMA 5-20R.		
RCUIT	⁰⁵ C	OVERLOAD RELAY (ONE-LINE DIAGRAM).
ACLE TO		OVERLOAD RELAT (ONE-LINE DIAGRAM).
OWER.		STARTER (ONE-LINE DIAGRAM).
		CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	08	
		CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM).
	09	
	(MCP	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	10	
ER TO		CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
O WIRING ONS FOR		CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT
		PROTECTION (ONE-LINE DIAGRAM).
WINGS. RICAL	12	MOTOR.
5.	¹³ (L)	COMBINATION RESIDENTIAL EXHAUST FAN/LIGHT.
	14 F	EXHAUST FAN OUTLET.
TROLLED).		HEATER, ELECTRIC RESISTANCE.
NTROLLED).	16 <u>UUU</u>	
ROLLED).	m	TRANSFORMER (ONE-LINE DIAGRAM).
OLLED).	¹⁷ — 3 E—	TRANSFORMER, CURRENT (ONE-LINE DIAGRAM).
	¹⁸ <u>+</u>	BATTERY (ONE-LINE DIAGRAM).
	¹⁹ —) —	CAPACITOR (ONE-LINE DIAGRAM).
	20	DELTA CONNECTION (ONE-LINE DIAGRAM).
	21	
		WYE CONNECTION (ONE-LINE DIAGRAM).
	22	
	"1H"	PANELBOARD (ONE-LINE DIAGRAM).
5-20R.	23	
RCUIT	225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS
IRCUIT		SHOWN (ONE-LINE DIAGRAM).
DWER:		
r)225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS
		SHOWN (ONE-LINE DIAGRAM).
	25	
DMATICALLY D D)	225/3	
-,	"1H"	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
R, CCUPANCY		
METHOD)	<u>60/3</u> 26	
ROLLED REFER TO	225/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION
		WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	U _{25/3}	

	SYMBOLS LEGEND
SYMBOL	
_	REFER TO FIXTURE SCHEDULE FOR SYMBOLS)
01 (W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
02 (W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
⁰³ EM	EMERGENCY.
04 NL	NIGHT LIGHT: DO NOT SWITCH.
⁰⁵ ↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
06 LV	LOW VOLTAGE LIGHTING TRANSFORMER.
07	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
08 🔇 🄇	EXIT SIGN: SINGLE FACE; WALL MOUNTED
09 (EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
10	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
	CONTROL
01	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
02	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
03 (3)	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
04	OCCUPANCY SENSOR, ULTRASONIC, OMNI-DIRECTIONAL,
⁰⁵ R	CEILING. OCCUPANCY SENSOR CONTROL RELAY.
06	VACANCY SENSOR, DUAL TECHNOLOGY,
07	OMNI-DIRECTIONAL, CEILING.
08	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
(P)	
⁰⁰ тс 10	TIME CLOCK.
HR 1	HOUSE RELAY SCHEDULE INDICATOR.
101 1-1-1 12	LITE TOUCH STATION INDICATOR.
X	CEILING FAN.
13 SP	OCCUPANCY SENSOR, SWITCH PACK.
14 🔆	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
15	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
16	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
17 •	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
18 a,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
²¹ LS	LIGHTING NETWORK SWITCH.
22 NR	LIGHTING NETWORK ROUTER.
²³ RC	DIGITAL LIGHTING ROOM CONTROLLER
²⁵ SM	LIGHTING NETWORK SEGMENT MANAGER
26	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE
	SCHEDULE / DIAGRAM.
01	ED CABLING TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF
⁰² (((•)))	CABLES). DATA CONNECTION: WIRELESS ACCESS POINT
03	(WAP). REQUIRES (2) DATA DROPS PER DEVICE
\	TELEPHONE, WALL MOUNTED: WALL PHONE. OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF
▼× 05	CABLES).
06	COMMUNICATION.
07	TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC, WALL MOUNTED IN RECESSED BOX.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
09 D	DATA CABLE, CATEGORY 5 (ONE-LINE DIAGRAM).
10V	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).
	ED CABLING IHC
01 ∇	IHC COMMUNICATIONS DEVICE (1 DATA).
⁰² 🗸	IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG).
⁰³ 🛛	IHC COMMUNICATIONS DEVICE (1 DATA WALL PHONE).
04	IHC COMMUNICATIONS DEVICE (2 DATA).
05 ▼3	IHC COMMUNICATIONS DEVICE (3 DATA).
06 ▼4	IHC COMMUNICATIONS DEVICE (4 DATA).
⁰⁷ ▼ 6	IHC COMMUNICATIONS DEVICE (6 DATA).
08 _∨ M	IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR
• ⁰⁹ ▼ WAP	(1 DATA). IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2
•	DATA).

ABBREVIATIONS

	NOTE: ALL ABBREVIAT		YNOT BE USED.
1P 1PH	SINGLE POLE SINGLE-PHASE	kV kVA	KILOVOLT KILOVOLT AMPER
1WAY	ONE-WAY	kva kVAR	KILOVOLT AMPER
2/C	TWO-CONDUCTOR	kW	KILOWATT
2WAY 3/C	TWO-WAY THREE-CONDUCTOR	kWh LED	KILOWATT HOUR
3/C 3WAY	THREE-WAY	LED	
40UT	QUADRUPLE RECEPTACLE		CONDUIT
4PDT	OUTLET FOUR-POLE DOUBLE THROW	LFNC	LIQUID TIGHT FLE
4PST	FOUR-POLE SINGLE THROW	LPS	LOW PRESSURE
4W	FOUR-WIRE	LRA	LOCKED ROTOR
4WAY A	FOUR-WAY ABOVE COUNTER	LTG LV	LIGHTING LOW VOLTAGE
AC	ARMORED CABLE	MATV	MASTER ANTENN
ADA	AMERICANS WITH DISABILITIES	МАХ	SYSTEM MAXIMUM
ADJ	ACT ADJACENT	MC	METAL CLAD
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUI
AFG	ABOVE FINISHED GRADE AMPERE INTERRUPTING	MCB MCC	MAIN CIRCUIT BR MOTOR CONTRO
AIC	CAPACITY	MCP	MOTOR CIRCUIT
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTI
AMP ANN	AMPERE ANNUNCIATOR	MG MH	MOTOR GENERA
AP	ACCESS POINT (WIRELESS	MIN	MINIMUM
		MLO	MAIN LUGS ONLY
AR ASC	AS REQUIRED AMPS SHORT CIRCUIT	MOCP	MAXIMUM OVERC
ATS	AUTOMATIC TRANSFER	NA	NOT APPLICABLE
AV	SWITCH AUDIO VISUAL	NC	NORMALLY CLOS
AWG	AMERICAN WIRE GAGE	NEC NEMA	NATIONAL ELECT
BB	BUCK-BOOST TRANSFORMER		MANUFACTURER
XFMR C	CEILING MOUNTED	NFC	ASSOCIATION NATIONAL FIRE C
CATV	COMMUNITY ANTENNA	NFPA	NATIONAL FIRE F
СВ	TELEVISION CIRCUIT BREAKER	NIC	ASSOCIATION NOT IN CONTRAC
CCBA	CUSTOM COLOR AS SELECTED	NL	NIGHT LIGHT
0071	BY ARCHITECT	NO	NORMALLY OPEN
CCTV CF/CI	CLOSED CIRCUIT TELEVISION CONTRACTOR FURNISHED/	NTS OC	NOT TO SCALE ON CENTER
	CONTRACTOR INSTALLED	OCP	OVER CURRENT
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OF/CI	OWNER FURNISH
CFBA	CUSTOM FINISH AS SELECTED	OF/OI	CONTRACTOR IN OWNER FURNISH
СКТ	BY ARCHITECT CIRCUIT		INSTALLED
CM	CONSTRUCTION MANAGER	OFP OH DR	OBTAIN FROM PL OVERHEAD (COIL
CND	CONDUIT	OL	OVERLOAD
CO COR	CONVENIENCE OUTLET CONTRACTING OFFICER'S	PB	PUSHBUTTON
OOK	REPRESENTATIVE	PF PH	POWER FACTOR PHASE
CP	CONTROL PANEL	PNL	PANEL
CT CTV	CURRENT TRANSFORMER CABLE TELEVISION	PT	POTENTIAL TRAN
CU	COPPER	PTZ QTY	PAN/TILT/ZOOM QUANTITY
dBA DPDT	UNIT OF SOUND LEVEL DOUBLE POLE, DOUBLE	R	REMOVE
DPDT	THROW	RCP	REFLECTED CEIL
DS	DISCONNECT SWITCH	RMC RNC	RIGID METAL COI RIGID NONMETAL
EA EM	EACH EMERGENCY	RPM	REVOLUTIONS PI
EMT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND RE
ENT	ELECTRIC NONMETALLIC TUBING	S/S SCA	START/STOP
EPO	EMERGENCY POWER OFF	SCBA	STANDARD COLC
EQUIP	EQUIPMENT	SF	SELECTED BY AR SQUARE FOOT (F
EX F	EXISTING FURNITURE MOUNTED	SFBA	STANDARD FINIS
FA	FIRE ALARM	SPD	SELECTED BY AR SURGE PROTECT
FCP	FIRE ALARM CONTROL PANEL	SPDT	SINGLE POLE, DO
FLA FMC	FULL LOAD AMPS FLEXIBLE METAL CONDUIT	SPEC	SPECIFICATION
FOB	FREIGHT ON BOARD	SPST ST	SINGLE POLE, SINGLE THROW
FVNR	FULL VOLTAGE NON-REVERSING	SWBD	SWITCHBOARD
FVR	FULL VOLTAGE REVERSING	SWGR	SWITCHGEAR
G	GROUND	TL TP	TWIST LOCK TELEPHONE POL
GEN GFCI	GENERATOR GROUND FAULT INTERRUPTER	TP	TWISTED PAIR
GFP	GROUND FAULT PROTECTION	ТТВ	TELEPHONE TER
HD	HEAVY DUTY	TV TVSS	TELEVISION TRANSIENT VOLT
HID HOA	HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC	1000	SUPPRESSER
HP	HAND-OFF-AUTOMATIC HORSE POWER	TYP UF	TYPICAL UNDERFLOOR
HPF		UF UGND	UNDERGROUND
HPS HV	HIGH PRESSURE SODIUM HIGH VOLTAGE	UPS	UNINTERRUPTIBI
HZ	HERTZ	V	SUPPLY VOLTS
I/O		VA	VOLT AMPERE
IG IMC	ISOLATED GROUND INTERMEDIATE METAL	VFC/VF D	VARIABLE FREQU
	CONDUIT	W/	WITH
IN/IS IR	INSULATED/ ISOLATED INFRARED	W/O	WITHOUT
J-BOX	JUNCTION BOX	WP XFMR	WEATHERPROOF TRANSFORMER

NOT BE USED. KILOVOLT KILOVOLT AMPERE KILOVOLT AMPERE REACTIVE KILOWATT KILOWATT HOUR LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE METAL CONDUIT LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT LOW PRESSURE SODIUM LOCKED ROTOR AMPS LIGHTING LOW VOLTAGE MASTER ANTENNA TELEVISION SYSTEM MAXIMUM METAL CLAD MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTION MAIN DISTRIBUTION PANEL MOTOR GENERATOR MANHOLE MINIMUM MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIOANL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE CODE NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE ON CENTER OVER CURRENT PROTECTION OWNER FURNISHED/ CONTRACTOR INSTALLED OWNER FURNISHED/ OWNER INSTALLED OBTAIN FROM PLANS OVERHEAD (COILING) DOOR OVERLOAD PUSHBUTTON POWER FACTOR PHASE PANEL POTENTIAL TRANSFORMER PAN/TILT/ZOOM QUANTITY REMOVE REFLECTED CEILING PLAN RIGID METAL CONDUIT RIGID NONMETAL CONDUIT **REVOLUTIONS PER MINUTE** REMOVE AND RELOCATE START/STOP SHORT CIRCUIT AMPS STANDARD COLOR AS SELECTED BY ARCHITECT SQUARE FOOT (FEET) STANDARD FINISH AS SELECTED BY ARCHITECT SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW SPECIFICATION SINGLE POLE, SINGLE THROW SINGLE THROW SWITCHBOARD SWITCHGEAR TWIST LOCK TELEPHONE POLE TWISTED PAIR TELEPHONE TERMINAL BOARD TELEVISION TRANSIENT VOLTAGE SURGE SUPPRESSER TYPICAL UNDERFLOOR UNDERGROUND UNINTERRUPTIBLE POWER SUPPLY VOLTS VOLT AMPERE VARIABLE FREQUENCY MOTOR CONTROLLER WITH WITHOUT WEATHERPROOF

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.
- B. 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.
- C. 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.

ELECTRICAL SHEET INDEX EE001 SHEET INDEX. ABBREVIATIONS, AND GENERAL NOTES

- EE002 SYMBOLS LEGEND EE501 ELECTRICAL DETAILS EE502 GENTIGE DRAWINGS EE503 GENTIGE DRAWINGS EE601 ELECTRICAL SCHEDULES EE701 TYPICAL MOUNTING HEIGHT DETAILS EE702 TYPICAL LABELING DETAILS EP102 OVERALL POWER PLAN LEVEL 2
- EP401 ENLARGED ELECTRICAL PLANS
- ET001 TELECOM SCHEDULES AND NOTES ET501 TELECOM DETAILS ET601 TELECOM CONDUIT RISER DIAGRAMS

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.

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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	SYMBOLS LEGEND
SYMBOL 00	
ELECTRICA	AL POWER AND DISTRIBUTION
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
³³ •−↓	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
³⁴ – ⓒ	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
G 36 M	GENERATOR, POWER (ONE-LINE DIAGRAM).
37 BBF	BROAD BAND FILTER (ONE-LINE DIAGRAM).
38 VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE
³⁹	DIAGRAM). DIODE (ONE-LINE DIAGRAM).
40 (AERIAL SERVICE WEATHER HEAD (ONE-LINE DIAGRAM).
41	DISCONNECT SWITCH, FUSED.
42 	DISCONNECT SWITCH, UNFUSED.
43	STARTER, COMBINATION WITH DISCONNECT SWITCH.
44	
45	STARTER OR MOTOR CONTROLLER.
46	
47	PUSHBUTTONS, MOTOR CONTROL.
48	PANELBOARD CABINET, FLUSH MOUNTED.
49	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
50 DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
51 LP	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
52	LIGHTING CONTROL STATION.
53	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
54	CENTRAL PROCESSOR UNIT.
55 \$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
⁵⁶ 75	TRANSFORMER: NUMBER INDICATES kVA.
57 B B	BUSWAY.
⁵⁸ TTT	DUCT, TROLLEY.
⁵⁹ – \	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
⁶⁰ — —	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
61	PUSHBUTTON, NORMALLY CLOSED (ONE-LINE DIAGRAM).
62	PUSHBUTTON, NORMALLY OPEN (ONE-LINE DIAGRAM).
63 0	PRESSURE SWITCH, CLOSE ON INCREASE (ONE-LINE DIAGRAM).
64 0 0	PRESSURE SWITCH, OPEN ON INCREASE (ONE-LINE DIAGRAM).
65 0 0	SWITCH, NORMALLY CLOSED FLOAT (ONE-LINE DIAGRAM).
67	SWITCH, NORMALLY OPEN FLOAT (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY CLOSED LIMIT (ONE-LINE DIAGRAM).
69	SWITCH, NORMALLY OPEN LIMIT (ONE-LINE DIAGRAM). SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED
	(ONE-LINE DIAGRAM).
71	SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
-010-	SWITCH, NORMALLY CLOSED TIME DELAY (ONE-LINE DIAGRAM).
72 -oto-	SWITCH, NORMALLY OPEN TIME DELAY (ONE-LINE DIAGRAM).
73-070-	SWITCH, NORMALLY CLOSED FOOT OPERATED (ONE-LINE DIAGRAM).
74 0 0-	SWITCH, MULTIPOSITION (ONE-LINE DIAGRAM).
75	SWITCH, SINGLE BREAK (ONE-LINE DIAGRAM).
	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
77 (HC)	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
	CIRCUIT BREAKER, DRAW OUT (ONE-LINE DIAGRAM).

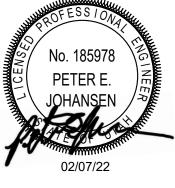
	SYMBOLS LEGEND
SYMBOL	DESCRIPTION
	M
FSA	FIRE SYSTEM ANNUNCIATOR.
FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
)3 FPS	FIRE ALARM NOTIFICATION POWER SUPPLY.
)4 FTR	FIRE ALARM TRANSPONDER OR TRANSMITTER.
)5 HVA	SMOKE CONTROL PANEL.
06 C	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
⁰⁷ CM	CONTROL MODULE.
⁰⁸ MM	MONITOR MODULE.
)9 P	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
¹¹ රි	MAGNETIC DOOR HOLDER.
	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, ACCESSIBLE.
	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, HANDSET.
	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, JACK.
15	DETECTOR, SMOKE.
¹⁶ (2) _A	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
I7 D _{BR}	DETECTOR, SMOKE, BEAM RECEIVER.
I8 O _{BT}	DETECTOR, SMOKE, BEAM TRANSMITTER.
19 2 E	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
20 🕑 _G	DETECTOR, SMOKE WITH GUARD.
21 2 R	DETECTOR, SMOKE, RESIDENTIAL.
22	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
23	DETECTOR, HEAT.
24	INDICATOR LAMP.
25	STROBE.
26 🗙 75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WEATHERPROOF.
28 🖂	ALARM, HORN/STROBE, ONE ASSEMBLY.
29 🛛 🗸 75	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
³⁰ ⊠⊲ c	ALARM, CHIME/STROBE, ONE ASSEMBLY.
³¹ 🛛 🖓 G	ALARM, HORN/STROBE WITH GUARD, ONE ASSEMBLY.
³² 🛛 M	ALARM, MINI HORN/STROBE, ONE ASSEMBLY.
³³ E	SPEAKER, EVACUATION.
³⁴ X E	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
37 	SMOKE DAMPER.
I FSD	FIRE AND SMOKE DAMPER.
ы В П	BELL (GONG).
	DETECTOR, CARBON MONOXIDE.
	DETECTOR, SMOKE/STROBE, RESIDENTIAL.
¹² 2 75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING. ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
¹⁴ (2) 75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
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	SYMBOLS LEGEND
	DESCRIPTION
	OGY SYSTEMS
01	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT
	LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES:
x	C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN
Ň	INSULATED M = MICROPHONE CABLE
	S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
⁰² (\$ _#	SPEAKER, CEILING MOUNTED.
0.2	
⁰³ +S _#	SPEAKER, WALL MOUNTED.
(S) ₄	SPEAKER, 4".
⁰⁵ (\$) ₆	SPEAKER, 6".
⁰⁶ (S ₈	SPEAKER, 8".
⁰⁷ S ₁₂	SPEAKER, 12".
00	
⁰⁰ (S _B	SPEAKER, BLIND MOUNT.
⁰⁹ S _E	SPEAKER, EXISTING.
(S) _H	HORN.
¹¹ S _{HW}	HORN, WEATHER RESISTANT.
12 S _M	SPEAKER, MASKING.
10	SPEAKER, RECESSED.
¹³ S _R	
14 S _S	SPEAKER, SURFACE.
¹⁵ н хх	SPEAKER, USER DEFINED.
16	SPEAKER, HIGH FREQUENCY.
17	SPEAKER, LOW FREQUENCY.
18	
	SPEAKER ENCLOSURE (CLUSTER).
19	
\rightarrow	CALL SWITCH, INTERCOM.
20	MICROPHONE, TABLE OR LECTERN MOUNTED.
21	EQUIPMENT CABINET.
22	MEDIA CONNECTION PLATE.
23 _	
	AUDIO/VISUAL OUTLET.
24 ======	SCREEN, PROJECTION, CEILING MOUNTED.
25	
	PROJECTOR, CEILING MOUNTED.
²⁶	VIDEO CONFERENCING CAMERA.
27	
²¹ (CP)	CONTROL PANEL.
²⁹	MICROPHONE INPUT.
(M)	MICROPHONE INPUT, FLOOR MOUNTED.
³⁰ R	REMOTE CONTROL INPUT.
31	POWER SWITCH.
³² (S)	SPEAKER SWITCH OR INPUT.
33	SOURCE SWITCH/VOLUME CONTROL.
34 (SV)	
35 O	TAPE RECORD OUTPUT.
(\vee)	VOLUME CONTROL.
³⁶ HC	HUB CABINET.
37 M	VIDEO MONITOR.
38 ADA	AUDIO DISTRIBUTION AMPLIFIER.
³⁹ APP	
40	
41	CONNECTION PANEL.
DVD	DIGITAL VERSATILE DISC (DVD) PLAYER.
42 EP	ASSISTED LISTENING EMITTER PANEL.
43 K	SIGNAL RELAY DPDT WITH SOCKET.
44 LD	LINE DRIVER (VARIZONE DIGITAL PAGING SYSTEM).
45	
46 PAM	POWER AMP MODULE (VARIZONE DIGITAL PAGING SYSTEM).
RDA	RGBHV DISTRIBUTION AMPLIFIER.
47 RM	REMOTE CONTROL PANEL.
48 RMS	RGBHV MATRIX SWITCHER.
49 TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER, AC LINE
50 VCR	CONDITIONER. VIDEO CASSETTE RECORDER.
	COMPOSITE VIDEO DISTRIBUTION AMPLIFIER.
52	
VDA 52 VMS	COMPOSITE VIDEO MATRIX SWITCHER.
52	COMPOSITE VIDEO MATRIX SWITCHER. VIDEO PATCH PANEL.
VDA 52 53	
VDA 52 VMS 53 VPP 54	VIDEO PATCH PANEL.
VDA 52 VMS 53 VPP 54 YMS	VIDEO PATCH PANEL.
VDA 52 VMS 53 VPP 54 YMS 55 PA	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER.
VDA 52 VMS 53 VPP 54 YMS 55 PA 56	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM).
VDA 52 VMS 53 VPP 54 YMS 55 PA	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER.
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB 57	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM).
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM). TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB 57 -WV- 58 *	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM). TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM). DIODE (ONE-LINE DIAGRAM).
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB 57 -WV- 58 ▲ 59 JMM	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM). TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB 57 -WW- 58 59	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM). TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM). DIODE (ONE-LINE DIAGRAM).
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB 57 -WV- 58 1 59 I/M 60 I/I	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM). TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM). DIODE (ONE-LINE DIAGRAM). TRANSFORMER, ISOLATION/MATCHING (ONE-LINE DIAGRAM).
VDA 52 VMS 53 VPP 54 YMS 55 PA 56 PB 57 -WW- 58 Image: Second	VIDEO PATCH PANEL. S-VIDEO MATRIX SWITCHER. AMPLIFIER (ONE-LINE DIAGRAM). POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM). TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM). DIODE (ONE-LINE DIAGRAM). TRANSFORMER, ISOLATION/MATCHING (ONE-LINE DIAGRAM). TRANSFORMER, # WATT (ONE-LINE DIAGRAM).

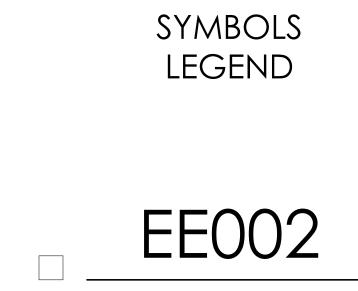
	SYMBOLS LEGEND
SYMBOL	DESCRIPTION
01 _	
	CLOCK.
+C _G	CLOCK, SURFACE WITH WIRE GUARD.
NURSE CA	LL
01 D	JUNCTION BOX.
02	CORRIDOR LIGHT.
03 🕈	
B 04 ●	BATHROOM PULL CORD STATION.
D	DUTY STATION.
05 F	EMERGENCY ASSISTANCE CALL STATION.
06 — Е св	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
07	PATIENT STATION.
P 08 ●	
09	STAFF STATION.
NCM	TOUCH SCREEN NURSE CALL MASTER STATION.
10 ZLC	ZONE LIGHT CONTROLLER.
¹¹ CU	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
	I
01P	CCTV CABLE, POWER.
02	
	CCTV CABLE, VIDEO SIGNAL.
CCTV	CCTV HEADEND EQUIPMENT.
04 M	CCTV MONITOR.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
06 PTZ>	CCTV CAMERA WITH PAN, TILT AND ZOOM.
07	
360°	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
01X	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
02 ACC	ACCESS CONTROL HEADEND EQUIPMENT.
	SECURITY CONTROL PANEL.
04	
05	INTRUSION DETECTION HEADEND EQUIPMENT. CARD ACCESS DOOR TYPE #1 OR AS NOTED.
#1	SCHEDULE.
06 CR>	CARD READER.
07 KCR	KEYPAD/CARD READER COMBINATION.
08	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
09	EXIT REQUEST.
⁰³ ● _{ER}	
• RL	REMOTE DOOR RELEASE BUTTON.
12	BELL.
	BUZZER.
¹³	BUZZER, COMBINATION BELL.
	SENSOR, BURIED VEHICULAR.
15 ()	SENSOR, GLASS BREAK.
16 A	
17 (17)	
(CA)	CONTROLLED ACCESS POINT.
	INTERCOM STATION.
19 (IRU)	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
20 (R	PASSIVE INFRARED SENSOR.
21 (P)	PANIC DURESS SWITCH.
²² U	ULTRASONIC MOTION DETECTOR.
24 AP	ANNUNCIATOR PANEL.
MSI	MASTER STATION, INTERCOM.
	BUTION
01T	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
02-TR	TV DISTRIBUTION CABLE, TRUNK.
03 CMB	COMBINER.
04 DC	DIRECTIONAL COUPLER.
DA	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
06	
SPL	SPLITTER (ONE-LINE DIAGRAM).
07	TV OUTLET.
	SATELLITE ANTENNA.
V 7	
10	TV ANTENNA (ONE-LINE DIAGRAM).
⁰⁹ 1	TV ANTENNA (ONE-LINE DIAGRAM). TERMINATOR, 75 OHM (TV DISTRIBUTION).



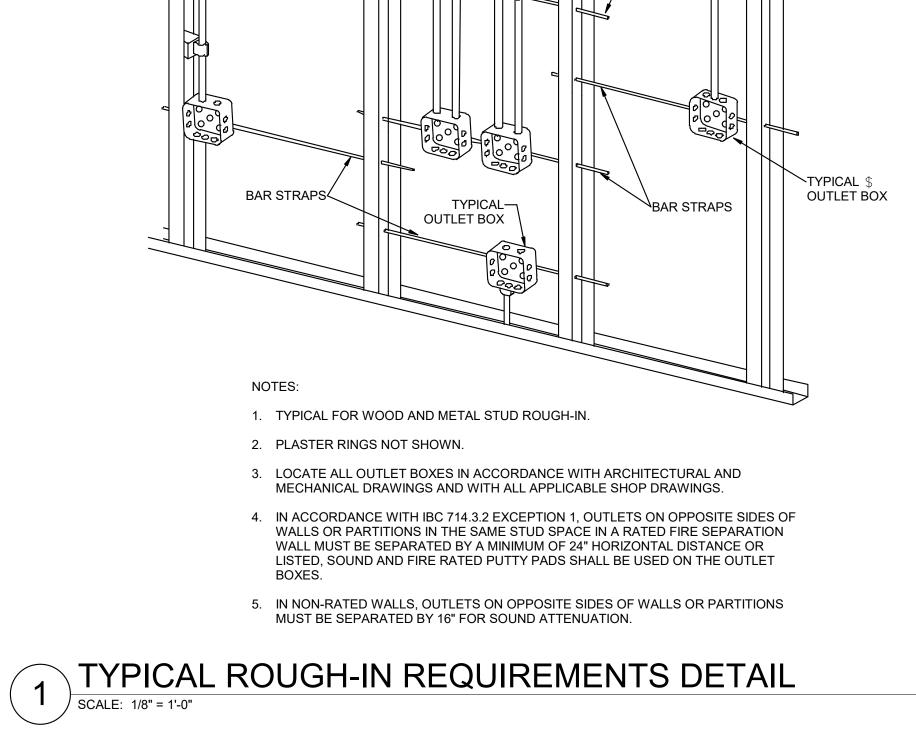




NJRA Project #21211.00Construction DocumentsFeb 7, 2022



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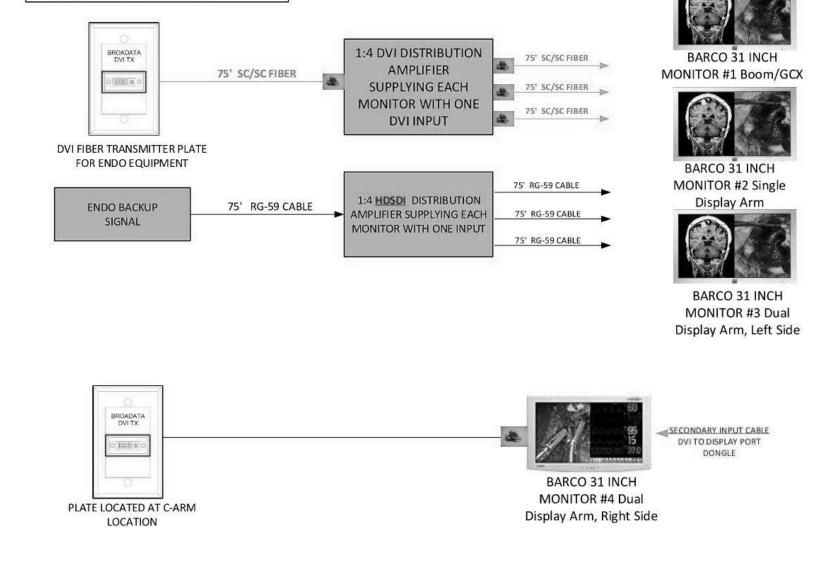
—BAR STRAPS

PROVIDE CONDUIT SUPPORTS IN ACCORDANCE WITH NEC SPACING REQUIREMENTS FOR TYPE OF RACEWAY REQUIRED.

AS REQUIRED FOR TYPE

4 ENDO ROOM CABLE PLAN SCALE: 1/8" = 1'-0"

TYPICAL WALL OUTLETS



RIVERTON HOSPITAL ENDO ROOM CABLE PLAN

REVISION TWO

EACH D/A REQUIRES ONE AC OUTLET

EQUIP BOOM

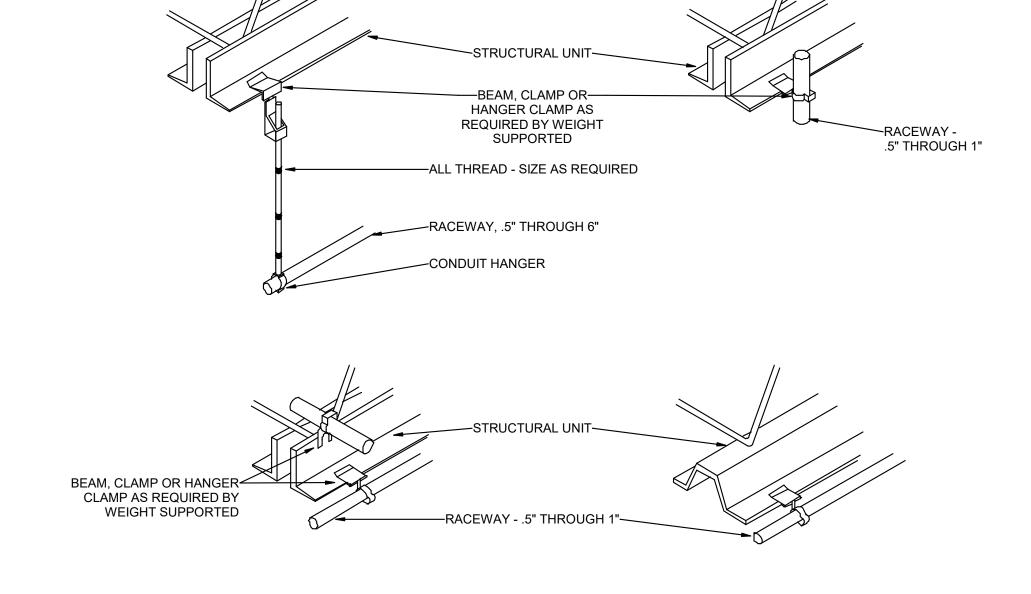
DVI D/A REQUIRES QUAD AC OUTLET TO POWER FIBER

EACH MONITOR REQUIRES ONE AC OUTLET ABOVE BOOM BROADATA TRANSMITTER REQUIRES AC OUTLET ABOVE

ALL DISTRIBUTION AMPLIFIERS TO BE AT ONE LOCATION

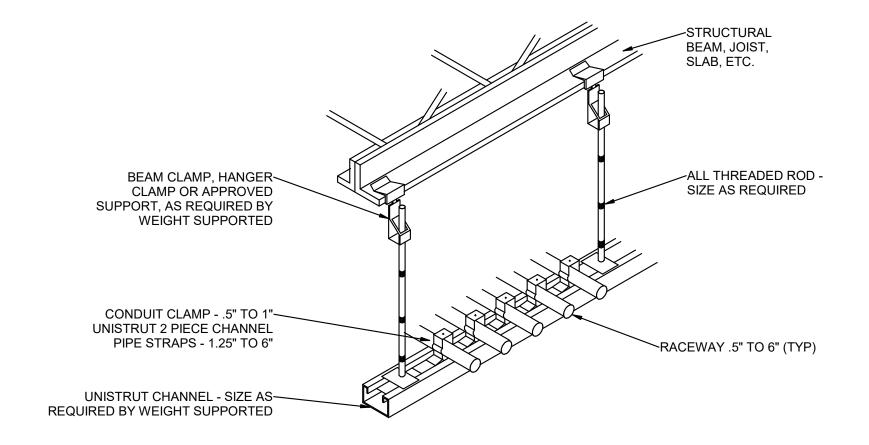
DETERMINED BY HOSPITAL CONTRACTOR

2 TYPICAL RACEWAY SUPPORT METHODS DETAIL SCALE: 1/8" = 1'-0"

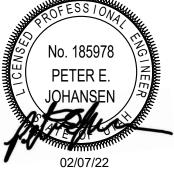


NOTE: TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.

3 TYPICAL CONDUIT RACK DETAIL SCALE: 1/8" = 1'-0"





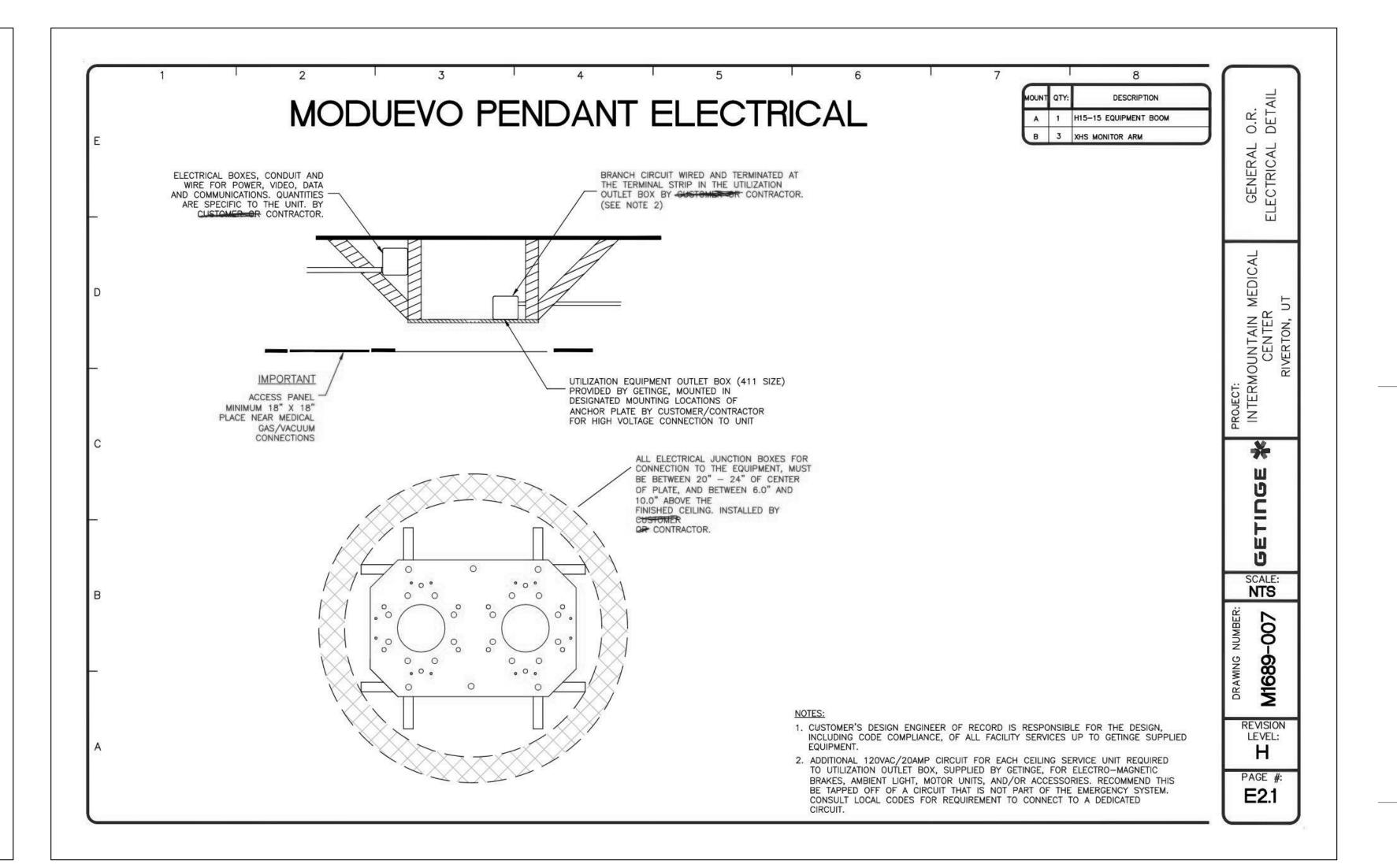


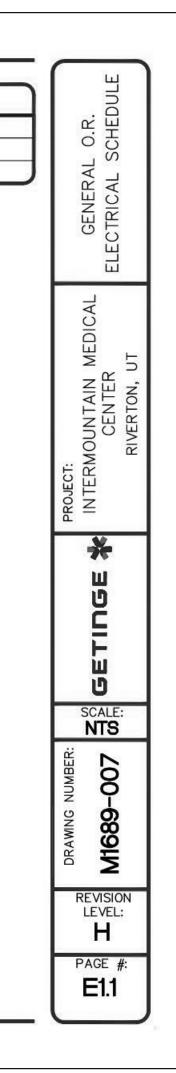




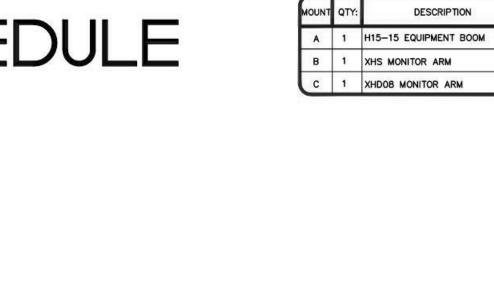


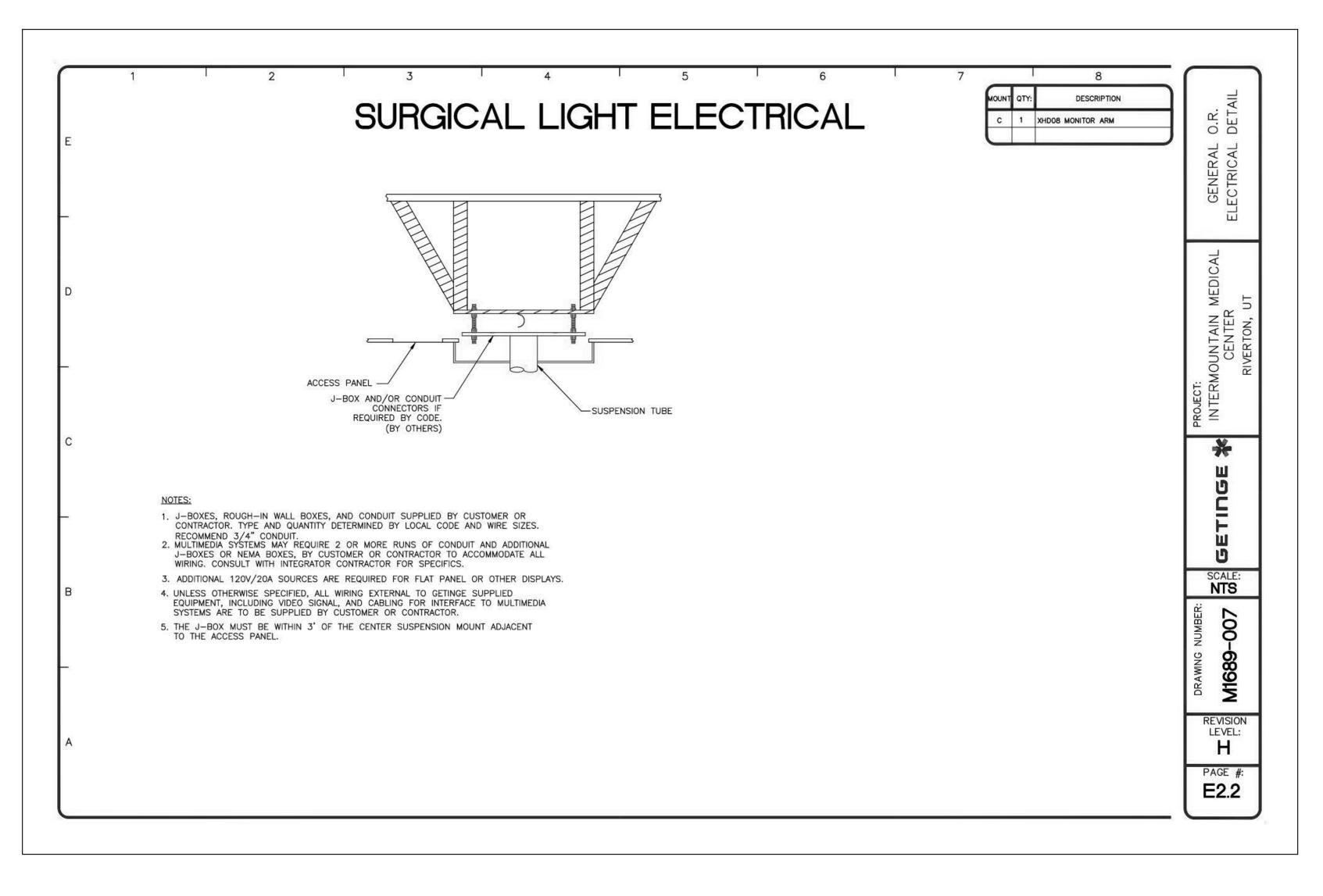
LOCATION	PURPOSE	CIRCUIT TYPE	QTY	JUNCTION BOX	TYPE
MOUNT A	PENDANT OUTLETS	EMERGENCY 20A	5	CUSTOMER	PER NEC



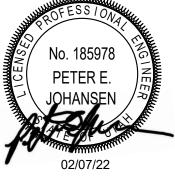


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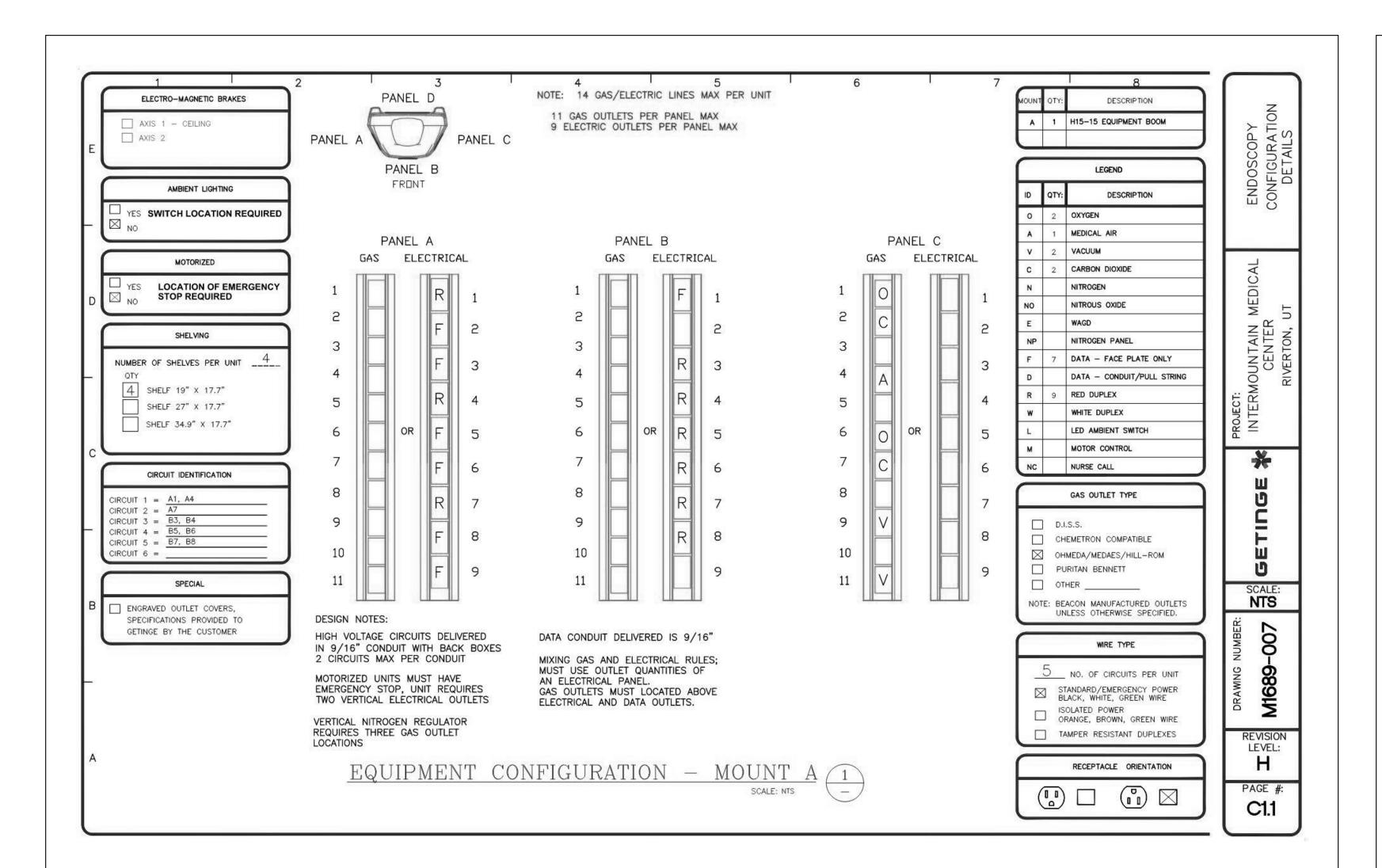




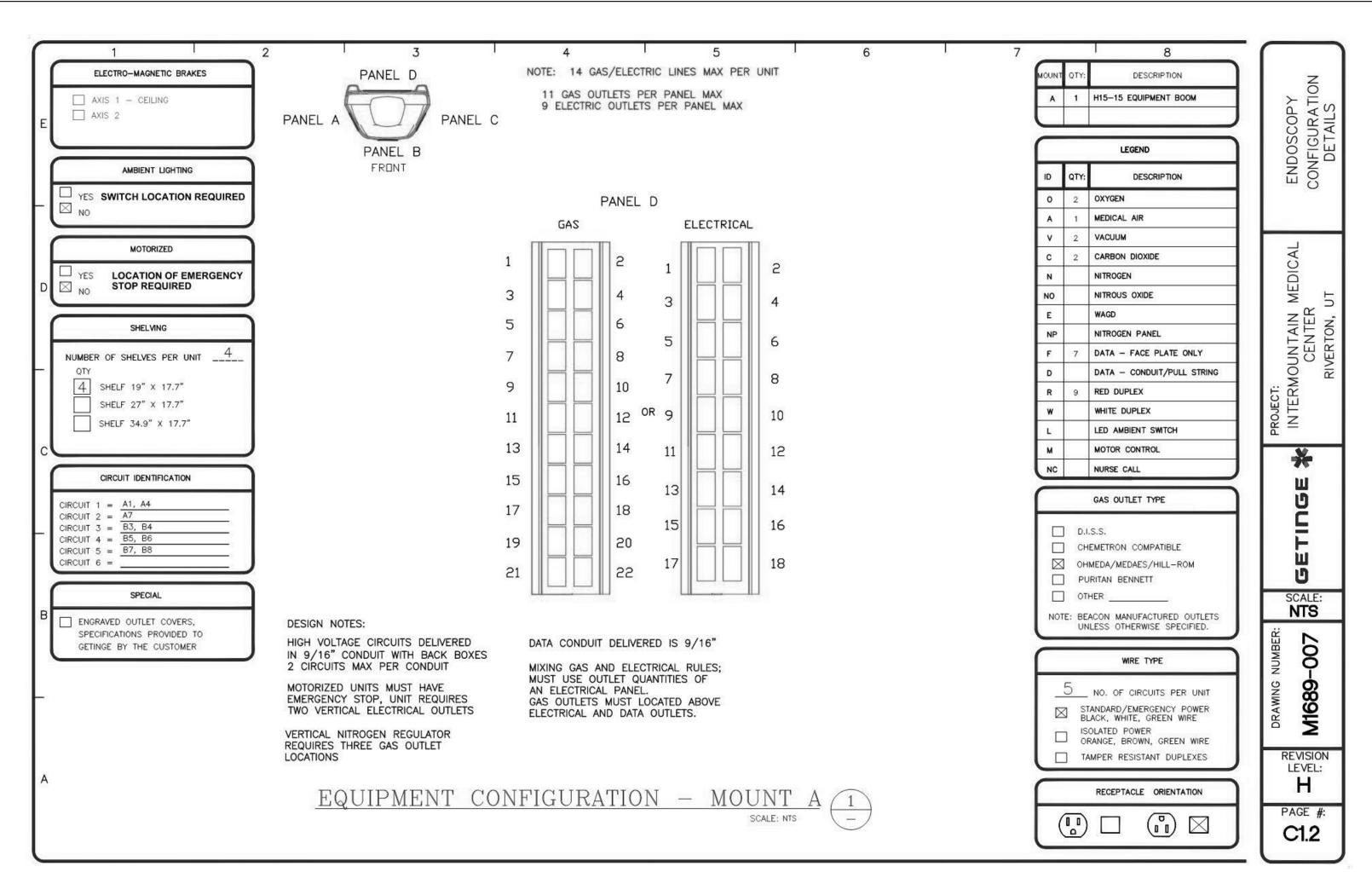
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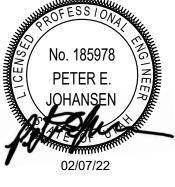














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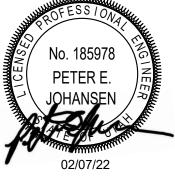
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						INT	ER	IOR I	_IGI	HTING F	IXTL	JRE	SCF	IED	ULE	=					
				A	BBR	REV	IATI	ONS	;										GENERA	AL NOTE	S
S - SURF W - WALL	ARHR - AR	AIR RETURN DAMP LOCAT EARTHQUAK FUSING HINGED AND HOUSE SIDE PHOTOCELL QUARTZ RES STATIC WIRE GUARE WET LOCATION	N AND HEAT TION (E CLIPS D LATCHED SHIELD SWITCH STRIKE D ION		N		BL - SL - GL - CL - PW - EA - S - GS - CBA - SCBA - CCA - FS - 209D - TP - FL - R -	MATTE WHIT BLACK SILVER GOLD CLEAR PAINTED WH EXTRUDED / STEEL GALVANIZEE CAST COLOR BY A STANDARD (ARCHITECT CUSTOM CCC ARCHITECT CUSTOM CCC ARCHITECT MEETS FEDE STANDARD (THERMALLY PROTECTED FLUSH REGRESS MITERED	HITE ALUMINUM D STEEL RCHITECT COLOR BY LOR BY ERAL 209D	DO - DROP OP/ CGL - CONVEX O S - SATIN LEM	#THICK #THICK (OPAL) LEAR) PAL) ROSTED) DW LENS RFORMANCE LE AL GLASS LENS		RE OP SP SS D SC PR FDR DS LI IR SL GL CA	- SEM - DIFF - SPEC - PRIS - FULL - DIFF - LOW - IRIDE - SILV - GOLI	E/OPEN CULAR I-SPECULAR USE (WHITE CULAR (COL MATIC . DEPTH REI USE (SEMI S IRIDESCEN ESCENT ER	E ENAMEL LORED) EFLECTOR SPECULA	-) R) SILVER 2. C S A A 3. S F 4. S F 4. S F 4. S F 4. S F 5. A C 8. F 9. A	OR EAC AILURE ND EMF NSTALLA NSTALLE CONTRAC PECIFIE LLOWAI LLOWAI ND DO I UBSTITU DDING, PRIOR TO AMPLES PRIOR TO CAMPLES PRIOR TO CATIO	CTOR ALLOWANCE PRICES ARI ED, CONTRACTOR AND ELECTR NCE AND REPORT ANY PROBLE NCE PRICE MAY OR MAY NOT IN NOT INCLUDE ANY TAXES. UTIONS AND/OR EQUAL FIXTUR , THEY MUST BE SUBMITTED TO D BID OPENING. S MUST BE PROVIDED FOR ANY D RELEASING FIXTURES. URES SHALL BE LISTED AND AF	HIN 48 BUSINESS HO REMENT MAY DISQU ERMINE FAIR VALUE THER INPUT FROM E ACCURATE WHEN ICAL DISTRIBUTOR S EMS TO THE ENGINE NCLUDE LAMP(S) OR RES MUST RECEIVE / O THE ENGINEER NO Y AND ALL FIXTURES PROVED FOR THEIF OR ACCESSORIES TO CATION ON THE DRA S" SECTION OF THE S TANT TECHNICAL RI (PS. C" OR "LIGHTING FAC	DURS OF THE BID DATE. ALIFY THE PRODUCTS FOR FIXTURE AND THE CONTRACTOR OR THIS JOB WAS SHALL VERIFY THIS ER BEFORE THE BID. FREIGHT AS NOTED, APPROVAL PRIOR TO LESS THAN 2 WEEKS UPON A/E REQUEST R INTENDED USE AND FACILITATE WINGS. SPECIFICATIONS. EQUIREMENTS FOR
ID	DESCRIPTION	LENGTH		AL SIZE HDIBH	DIAMETER' APERTURE	MOUNTING	ТҮРЕ	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	OPTION 1	OPTION 2	OPTION 3
(GF-101)	2' X 4' LED SURGICAL TROFFER, PROVIDE FLANGE KIT	4' - 0"	0' - 2"			CR	LED	3500K		0-10V DIMMING (10%)	120/277	200		16000			FLANGE KIT		KENNALL (M4SEDI-14-76L35K-DCC- DV-2F-PAH-ASYM (LEL)	277-1/CIR)	N-DM)
(GF-102)	2' X 2' LED SURGICAL TROFFER, PROVIDE FLANGE KIT	2' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	100	-	8000			FLANGE KIT		KENNALL (M4SEDI-14-76L35K-DCC- DV-2F-PAH-ASYM (LEL)	KURTZON -EF-5-2X2-3-LEDH-35 277-1/CIR)	NEW STAR - (SSF24-HCOC-L8351-A N-DM)



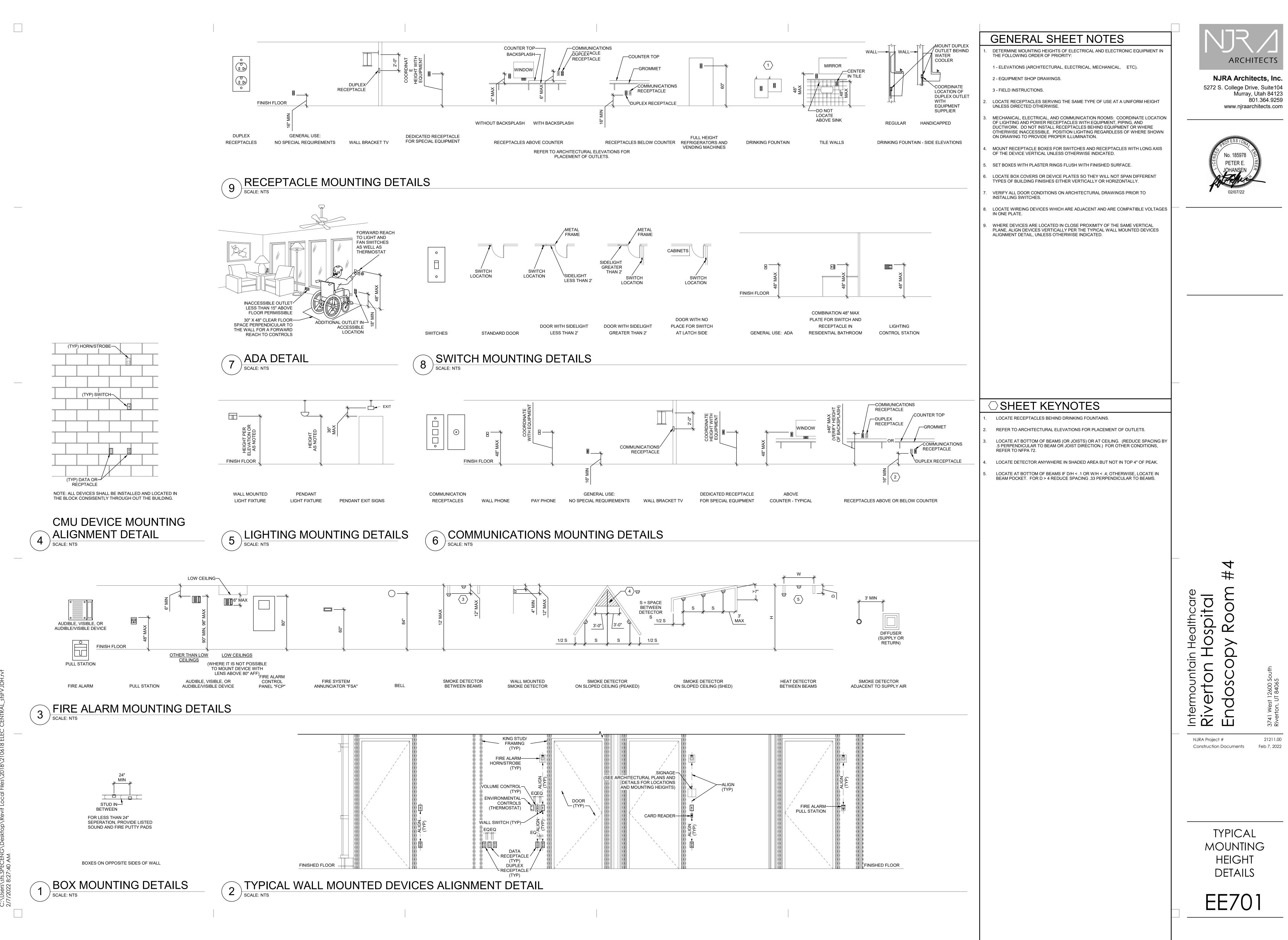




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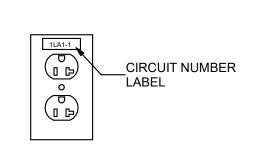






TYPICAL RECEPTACLE LABEL LOCATION

LOCATION



1LA1-1 _CIRCUIT NUMBER LABEL 0 TYPICAL SWITCH LABEL

*LABEL TO BE CENTERED IN EQUIPMENT, PREFERABLE ON FACE OF EQUIPMENT AND TOWARDS THE TOP. **REFER TO TYPICAL SWITCH/RECEPTACLE LABELING DETAIL FOR LABEL REQUIRMENTS. ***DISPOSE OF AN EXISTING PANELBOARD NAME PLATES WHEN INSTALLING NEW NAME PLATES. ARC FLASH LABLE LOCATED HERE -

2 TYPICAL MAIN SERVICE EQUIPMENT/GEAR LABEL

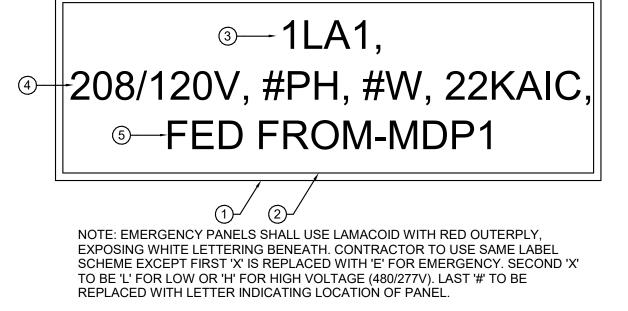
- NUMBER OF WIRES, AND AIC RATING OF GEAR. (5) THIRD & FOURTH LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND AND ASSOCIATED CLEARING TIME.
- (2) LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
- (1) LABEL TO BE PROVIDED THAT IS TO BE 4" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.

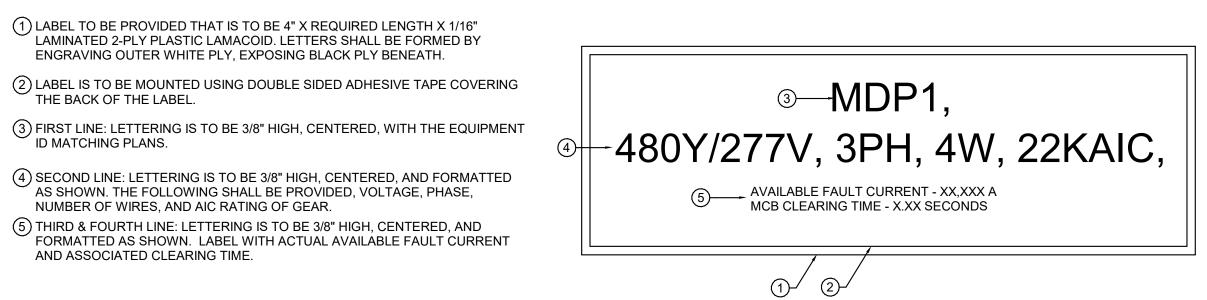
3 TYPICAL PANELBOARD/SWITCHBOARD LABEL

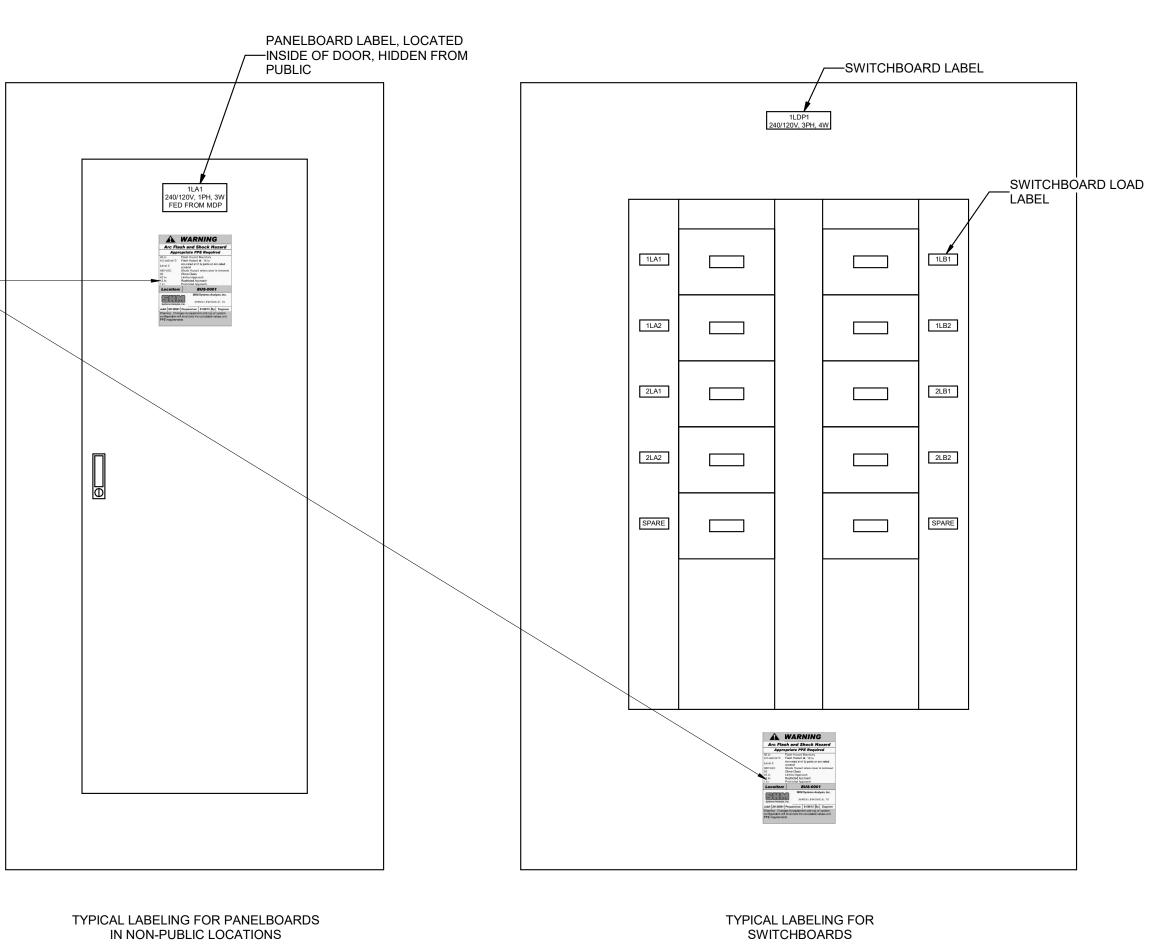
- NUMBER OF WIRES, AND AIC RATING OF DEVICE. SHOWN. PROVIDE "FED FROM-" AND REPLACE MDP1 WITH THE DEVICES NAME THAT FEEDS THE PANELBOARD.
- LINE DIAGRAM.
- ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH. (2) LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
- (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

(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-(4) SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, (5) THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS

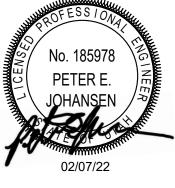






TYPICAL SWITCH, RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL



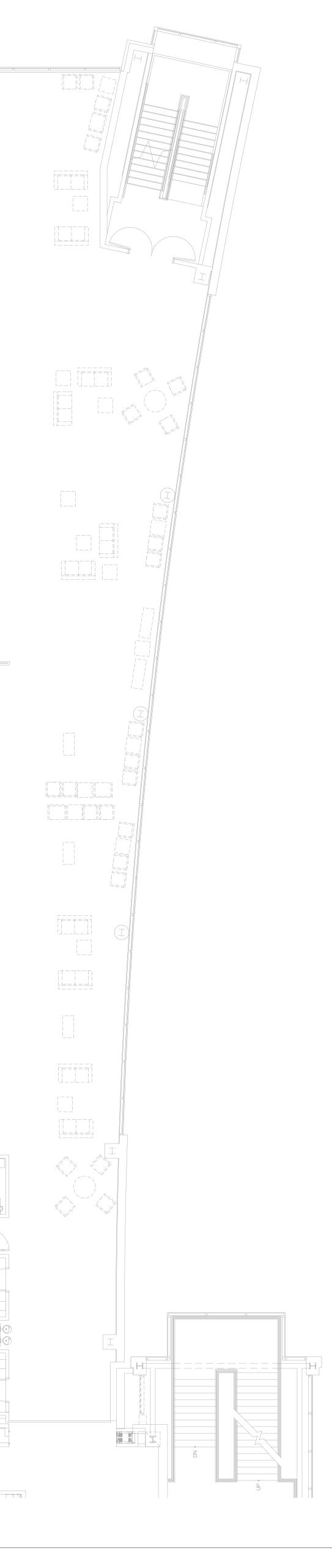






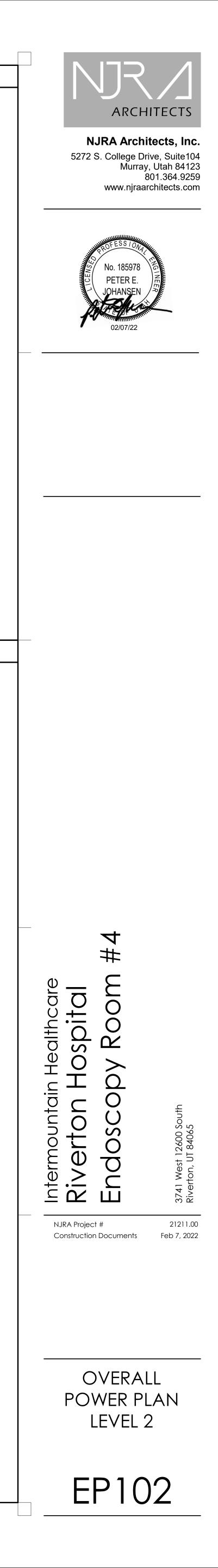




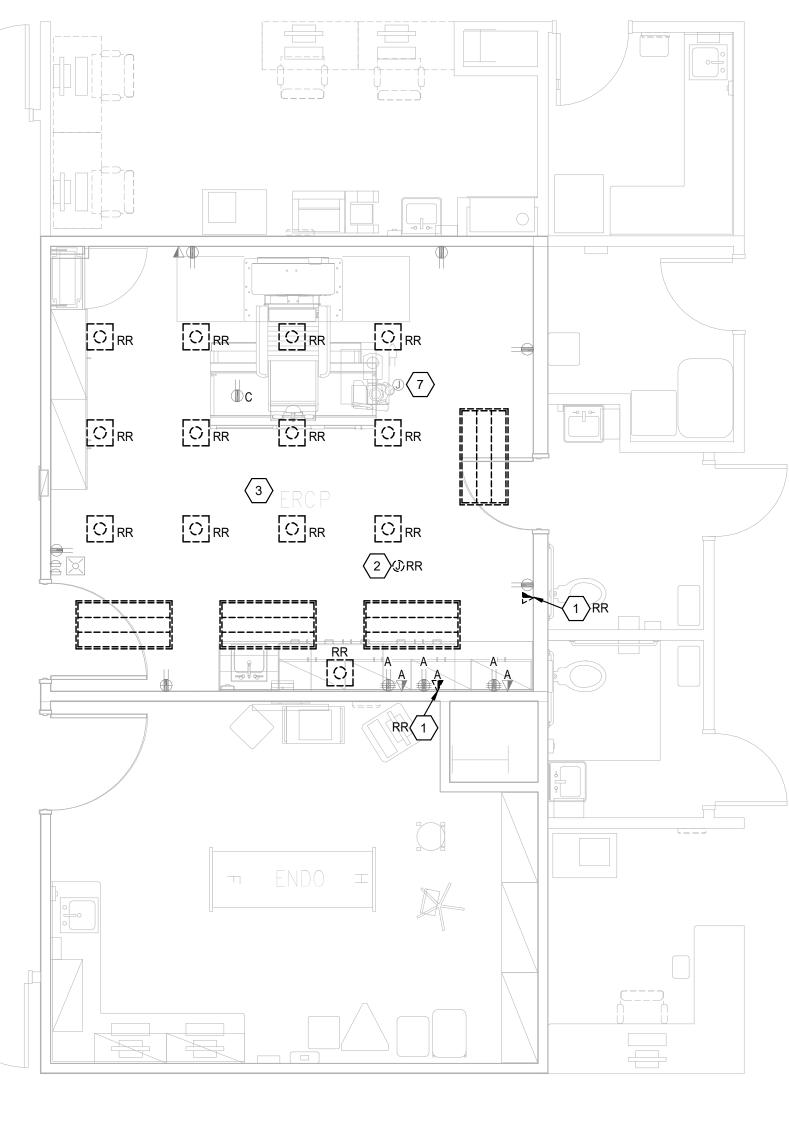


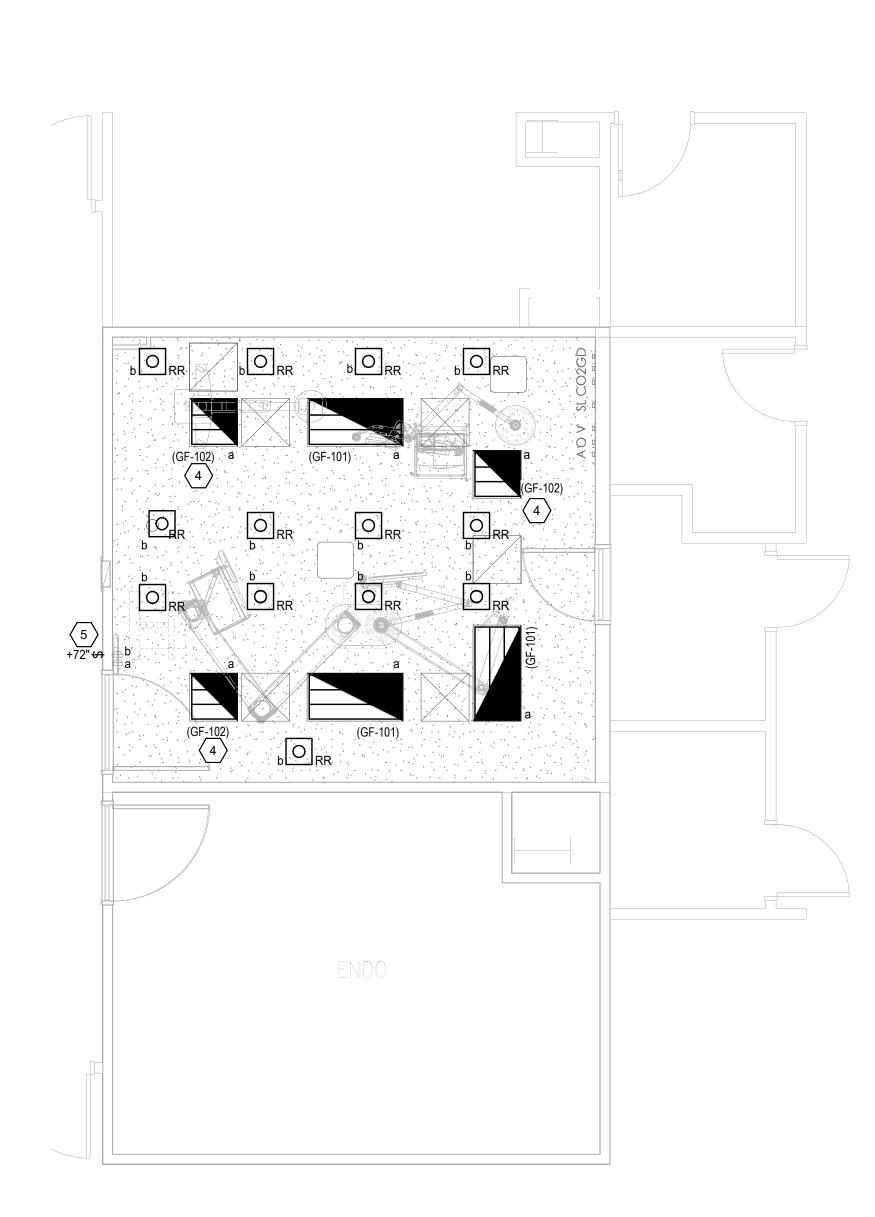
GENERAL SHEET NOTES

⊖ SHEET KEYNOTES



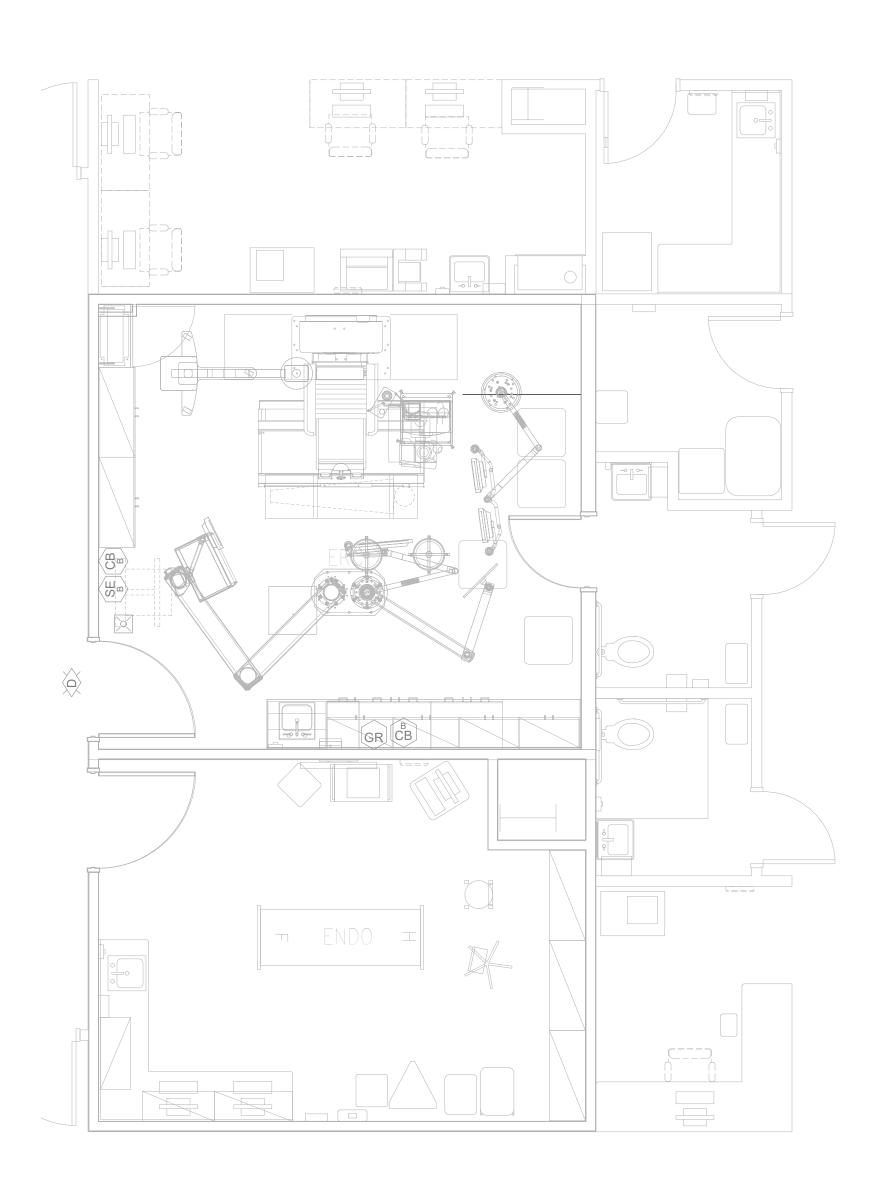




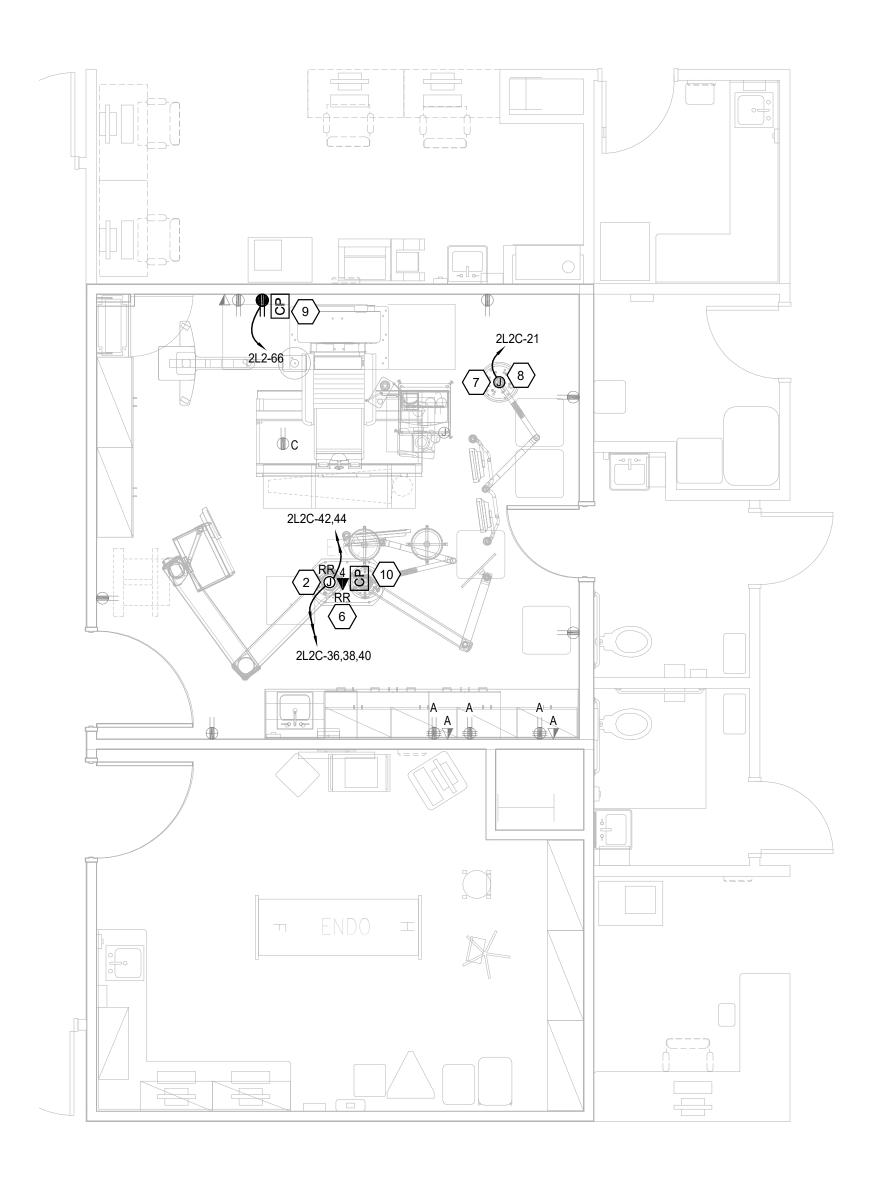








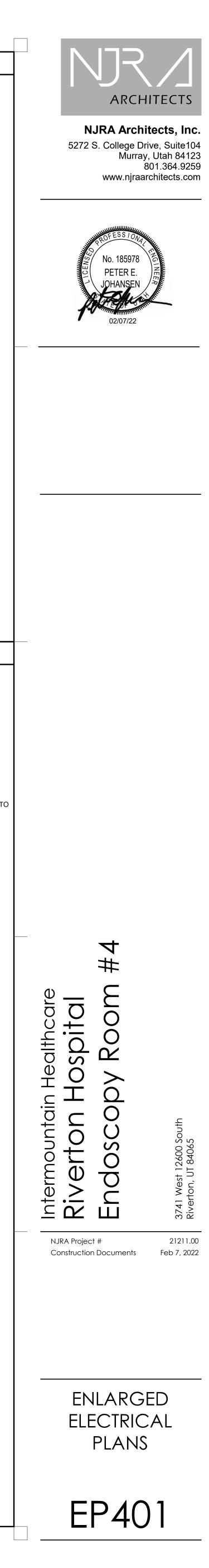
3 AUXILIARY PLAN LEVEL 2 SCALE: 1/4" = 1'-0"



POWER PLAN LEVEL 2 SCALE: 1/4" = 1'-0"



2. LEF 3. AL 5. F 7. F 4. F 5. F 7. F 4. F 5. F 7. F 4. F 5. F 7. F 5. F 7. F 5. F 7. F 5. F 7.	JNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT IN HATCHED AREAS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH THAT CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS, DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO VHAT LOAD IS SERVED. JINLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS. SALVAGE ALL POWER POLES, LIGHT FIXTURES, TWIST-LOCK RECEPTACLES ND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO PROTECT SALVAGED EQUIPMENT FROM DAMAGE. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD /ERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARI BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE LARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVED, SALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM NITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
2. U E F 3. S A C 4. F E 5. F V 6. F 7. F E A S S II 3. F V	WHAT LOAD IS SERVED. JINLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS. SALVAGE ALL POWER POLES, LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO PROTECT SALVAGED EQUIPMENT FROM DAMAGE. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD /ERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARI BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW BYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM
F 3. S 4. F 5. F 5. F 7. F 7. F 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9	PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS. SALVAGE ALL POWER POLES, LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO PROTECT SALVAGED EQUIPMENT FROM DAMAGE. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARI BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM
4. F E 5. F 7. F 7. F 8 8 8 8 8 8 8 8 8 9 8 9 8 9 9 9 9 9 9	PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD /ERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW BYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM
5. F V 6. F 7. F 2 2 3. F V	PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW BYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM
6. F F 7. F A S S II 3. F V	REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW BYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM
7. F E A S II B. F	REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW BYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM
V	
	REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
9. C	DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
1	SHEET KEYNOTES RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX.
1	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW
1 2 3	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX.
1 2 3	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX. EXISTING CIRCUITING IN J-BOX ABOVE CEILING TO BE RELOCATED TO BOOMS. INCLUDE IN BID TO TAKE DOWN CEILING LIGHT FIXTURES, TO ALLOW BOOM INSTALLATION. THEN REINSTALL LIGHT FIXTURES IN NEW CEILING. MAINTAIN
1 2 3 4 5	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX. EXISTING CIRCUITING IN J-BOX ABOVE CEILING TO BE RELOCATED TO BOOMS. INCLUDE IN BID TO TAKE DOWN CEILING LIGHT FIXTURES, TO ALLOW BOOM INSTALLATION. THEN REINSTALL LIGHT FIXTURES IN NEW CEILING. MAINTAIN EXISTING CIRCUITING AND CONTROLS.
1 2 3 4 5 6	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX. EXISTING CIRCUITING IN J-BOX ABOVE CEILING TO BE RELOCATED TO BOOMS. INCLUDE IN BID TO TAKE DOWN CEILING LIGHT FIXTURES, TO ALLOW BOOM INSTALLATION. THEN REINSTALL LIGHT FIXTURES IN NEW CEILING. MAINTAIN EXISTING CIRCUITING AND CONTROLS. PROVIDE BATTERY PACK IN NEW 2X2 FIXTURE. PROVIDE KEYED SWITCH OUTSIDE PROCEDURE ROOM AT 72" FOR TESTING BATTERY PACK. RELOCATE FOUR DATA DROPS FROM EXISTING TWO DATA RECEPTACLE IN WAI
1 2 3 4 5 6 7	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX. EXISTING CIRCUITING IN J-BOX ABOVE CEILING TO BE RELOCATED TO BOOMS. INCLUDE IN BID TO TAKE DOWN CEILING LIGHT FIXTURES, TO ALLOW BOOM INSTALLATION. THEN REINSTALL LIGHT FIXTURES IN NEW CEILING. MAINTAIN EXISTING CIRCUITING AND CONTROLS. PROVIDE BATTERY PACK IN NEW 2X2 FIXTURE. PROVIDE KEYED SWITCH OUTSIDE PROCEDURE ROOM AT 72" FOR TESTING BATTERY PACK. RELOCATE FOUR DATA DROPS FROM EXISTING TWO DATA RECEPTACLE IN WAL BOOM. THERE WILL BE TWO DATA RECEPTACLES IN BOOM (TWO DROPS EACH) TERMINATE CABLE IN CEILING, RUN PATCH CABLE IN BOOM. USE ONE OF THE SIX CIRCUIT IN J-BOX ABOVE CEILING FOR MONITOR BOOM.
1 2 3 4 5 6 7 8	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX. EXISTING CIRCUITING IN J-BOX ABOVE CEILING TO BE RELOCATED TO BOOMS. INCLUDE IN BID TO TAKE DOWN CEILING LIGHT FIXTURES, TO ALLOW BOOM INSTALLATION. THEN REINSTALL LIGHT FIXTURES IN NEW CEILING. MAINTAIN EXISTING CIRCUITING AND CONTROLS. PROVIDE BATTERY PACK IN NEW 2X2 FIXTURE. PROVIDE KEYED SWITCH OUTSIDE PROCEDURE ROOM AT 72" FOR TESTING BATTERY PACK. RELOCATE FOUR DATA DROPS FROM EXISTING TWO DATA RECEPTACLE IN WAI BOOM. THERE WILL BE TWO DATA RECEPTACLES IN BOOM (TWO DROPS EACH) TERMINATE CABLE IN CEILING, RUN PATCH CABLE IN BOOM. USE ONE OF THE SIX CIRCUIT IN J-BOX ABOVE CEILING FOR MONITOR BOOM. PROVIDE A 12" X 12" X6" SCREW COVER J-BOX ABOVE CEILING FOR MONITOR
1 2 3 4 5 6 7 8 9	RELOCATE THE TWO DATA DROP SERVING THIS RECEPTACLE TO THE NEW EQUIPMENT BOOM. PROVIDE A COVER PLATE FOR REMAINING J-BOX. EXISTING CIRCUITING IN J-BOX ABOVE CEILING TO BE RELOCATED TO BOOMS. INCLUDE IN BID TO TAKE DOWN CEILING LIGHT FIXTURES, TO ALLOW BOOM INSTALLATION. THEN REINSTALL LIGHT FIXTURES IN NEW CEILING. MAINTAIN EXISTING CIRCUITING AND CONTROLS. PROVIDE BATTERY PACK IN NEW 2X2 FIXTURE. PROVIDE KEYED SWITCH OUTSIDE PROCEDURE ROOM AT 72" FOR TESTING BATTERY PACK. RELOCATE FOUR DATA DROPS FROM EXISTING TWO DATA RECEPTACLE IN WAI BOOM. THERE WILL BE TWO DATA RECEPTACLES IN BOOM (TWO DROPS EACH) TERMINATE CABLE IN CEILING, RUN PATCH CABLE IN BOOM. USE ONE OF THE SIX CIRCUIT IN J-BOX ABOVE CEILING FOR MONITOR BOOM.



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

COPPER PATCH CORD SCHEDULE

(CATEGC	(CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)							
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)					
5'	BLUE	20% OF TOTAL PORTS IN TDR'S						
7'	BLUE	60% OF TOTAL PORTS IN TDR'S						
10'	BLUE	20% OF TOTAL PORTS IN TDR'S						

COPPER PATCH CORD SCHEDULE

(CATEGORY 5E CABLES W/RJ-45 CONNECTORS)							
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)				
5'	BLUE	10					
7'	BLUE	10					
10'	BLUE	10					

FIBER PATCH CORD SCHEDULE

(SINGLE-MODE W/LC CONNECTORS)								
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)					
-	-	-	-					
3	YELLOW	4	-					
5	YELLOW	4	-					

WIRELESS PATCH CORD PATCH CORD SCHEDULE

(CAT	EGORY 6A F/UTP W RJ/4	5 CONNECTO	२ऽ
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
7'	YELLOW	100% OF TOTAL PORTS IN TDR'S	

CLINICAL ENGINEERING PATCH CORD SCHEDULE

(CATEGORY 6A F/UTP W RJ/45 CONNECTORS)							
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)				
5'	ORANGE	70% OF TOTAL PORTS IN TDR'S					
7'	ORANGE	30% OF TOTAL PORTS IN TDR'S					

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE 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, DATA, BLUE	SIEMON 9A6R4-A5-06-R1A		
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, CLINICAL ENGINEERING, ORANGE	SIEMON 9A6P4-A5-02-R1A		
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, WIRELESS, YELLOW	SIEMON 9A6P4-A5-05-R1A		
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, SECURITY, BLUE	SIEMON 9A6P4-A5-06-R1A		
	STATION CABLE, DATA - CATEGORY 5E RISER, GREEN VENDOR NETWORK	SIEMON 9C5R4-E2-07-R1A		
W	VOICE OUTLET, SINGLE GANG FACEPLATE, WHITE W/WALL HUNG PHONE MOUNTING STUDS, ONE POSITION W/CATEGORY 6A INSERT	SIEMON MX-WP-Z6AS-SS		
М	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION	SIEMON 10GMX-FPS02-02		
M ▼	CATEGORY 6A JACK - CLINICAL ENGINEERING, ORANGE	SIEMON Z6A-S09		
	BLANK INSERT, WHITE	SIEMON MX-BL-02		
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION	SIEMON 10GMX-FPS02-02		
∇	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06		
	BLANK INSERT, WHITE	SIEMON MX-BL-02		
~	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION	SIEMON 10GMX-FPS02-02		
\mathbf{v}	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06		
	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		
C V	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02		
V	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06		
(((_))) C	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02		
`≜ć	CATEGORY 6A JACK - WIRELESS, YELLOW	SIEMON Z6A-S05		
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02		
م	CATEGORY 6A JACK - SECURITY, BLUE	SIEMON Z6A-S06		
SPP1	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON Z6AS-PA-48		
RPP1	48 PORT, 2RU ANGLE PATCH PANEL, 110 STYLE	SIEMON HD5-48A		
CEPP1	48 PORT, 1RU ANGLED PATCH PANEL WITH OUTLETS	SIEMON Z6AS-PA-48		
HWM	HORIZONTAL WIRE MANAGERS, 4RU	PANDUIT NCMHAEF4		
VWM	VERTICAL WIRE MANAGERS, DOUBLE SIDED, BLACK, 10" WIDE x 8'-0" HIGH	CHATSWORTH 40096-715		
	EQUIPMENT RACK, 19" x 8'-0", 52RU, BLACK	CHATSWORTH 55053-715		
ш	CABLE RUNWAY - 24", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORTH 10250-724		
	CABLE RUNWAY - 18", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORTH 10250-718		
	BUTT SPLICE KIT, BLACK	CHATSWORTH 11301-701		
	JUNCTION SPLICE KIT, BLACK	CHATSWORTH 11302-701		
	FOOT KIT, BLACK	CHATSWORTH 11309-701		
	6" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORTH 12409-724		
	TRIANGLE BRACKETS, BLACK	CHATSWORTH 11746-724		
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11700-724		
	WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11421-724		
	CABLE RUNWAY ELEVATION KIT, 6"	CHATSWORTH 10506-706		
	CABLE RUNWAY RADIUS DROP	CHATSWORTH 12100-712		
. ا ــــــ	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR	PANDUIT GR4-B06-24TPI-1		
	TELECOMMUNICATIONS GROUNDING BUS BAR	PANDUIT GB2-B03-12TPI-1		

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

EQUIPMENT/CABLE LIST

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.
- 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 LENGTH.
- 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.
- . 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.
- B. 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. ALL DATA LOCATIONS ARE NOT SHOWN IN ET SHEETS. REFER TO ENLARGED POWER PLANS FOR DATA LOCATIONS IF NOT SHOWN ON ET SHEETS.

ABBREVIATIONS NOTE: ALL ABBREVIATIONS MAY NOT BE USED. AUGMENTED CATEGORY CAT ENHANCED EA EACH EQUIPMENT ROOM ER FIBER PATCH PANEL FPP GIGA HERTZ GIG HORIZONTAL WIRE MANAGEMENT HWM NIC NOT IN CONTRACT OWNER ELECTRONICS OE PNM PLENUM PR PAIR POWER SUPPLY PS RISER PATCH PANEL RPP STATION PATCH PANEL SPP TELECOMMUNICATIONS ROOM TC TYP TYPICAL VWM VERTICAL WIRE MANANGEMENT

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."

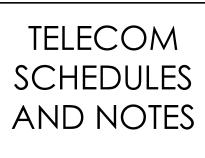
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

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.

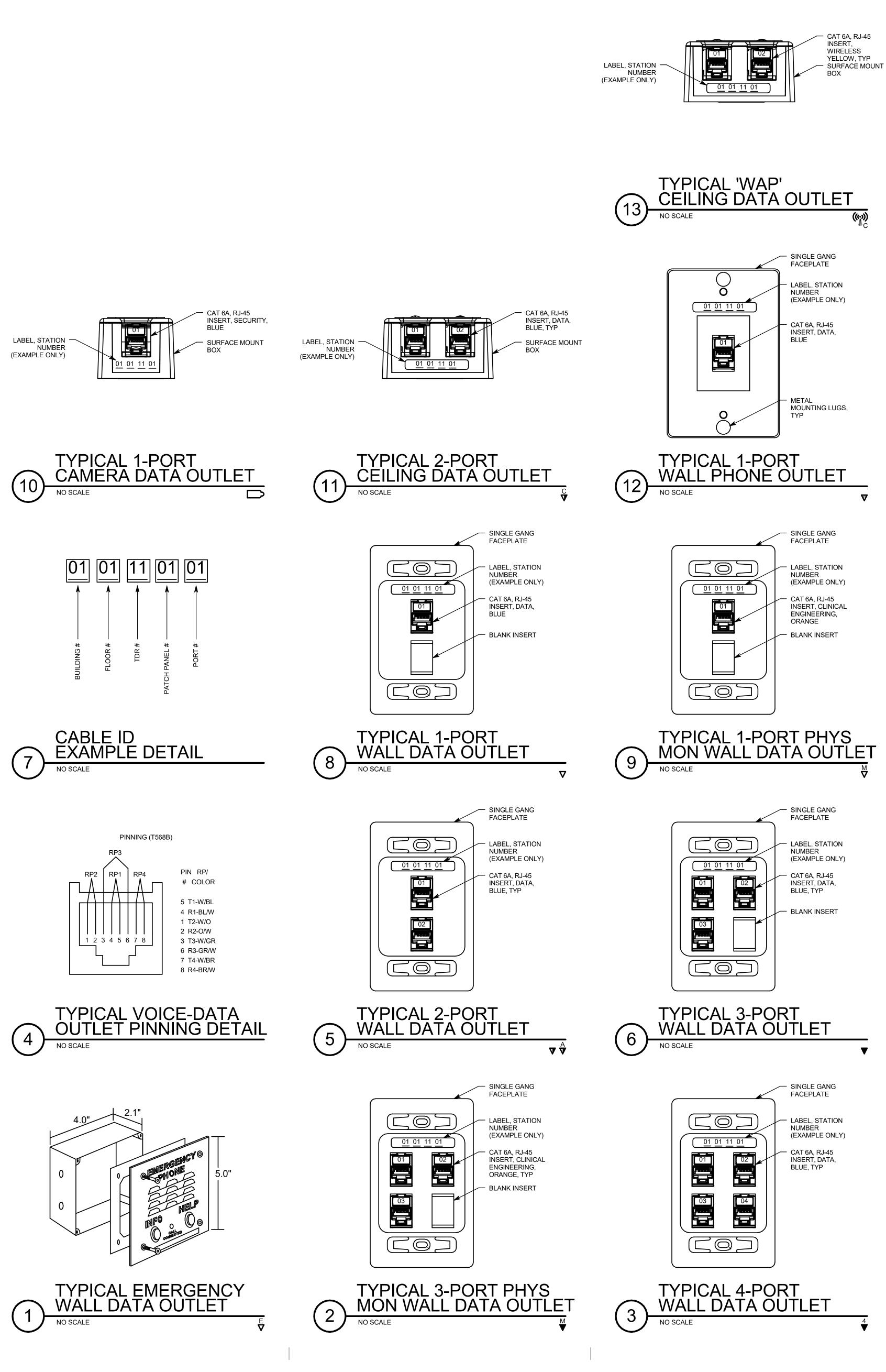
ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS,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

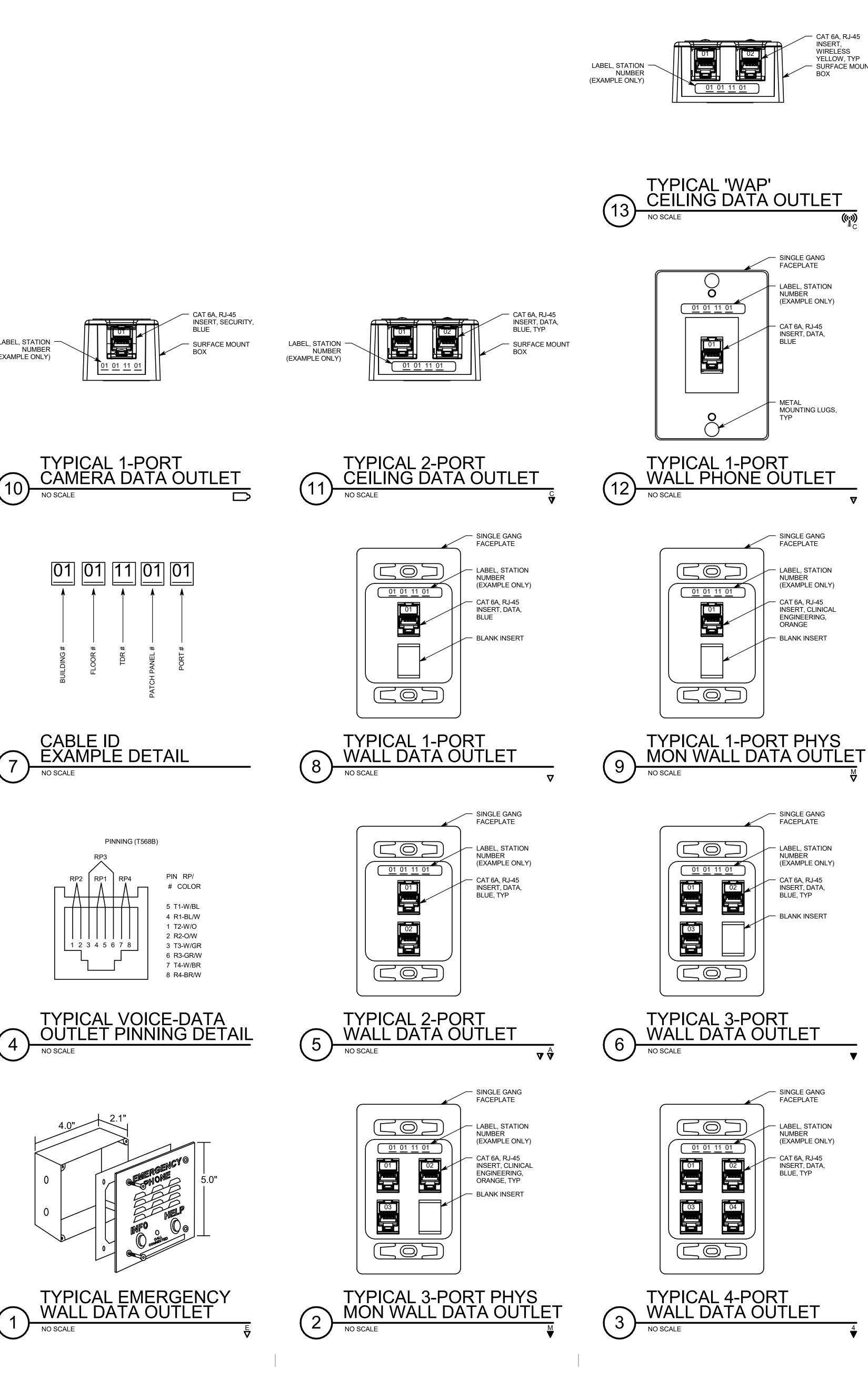




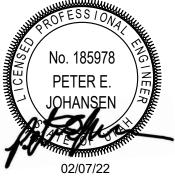


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Construction Documents

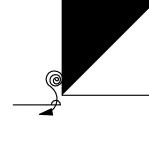
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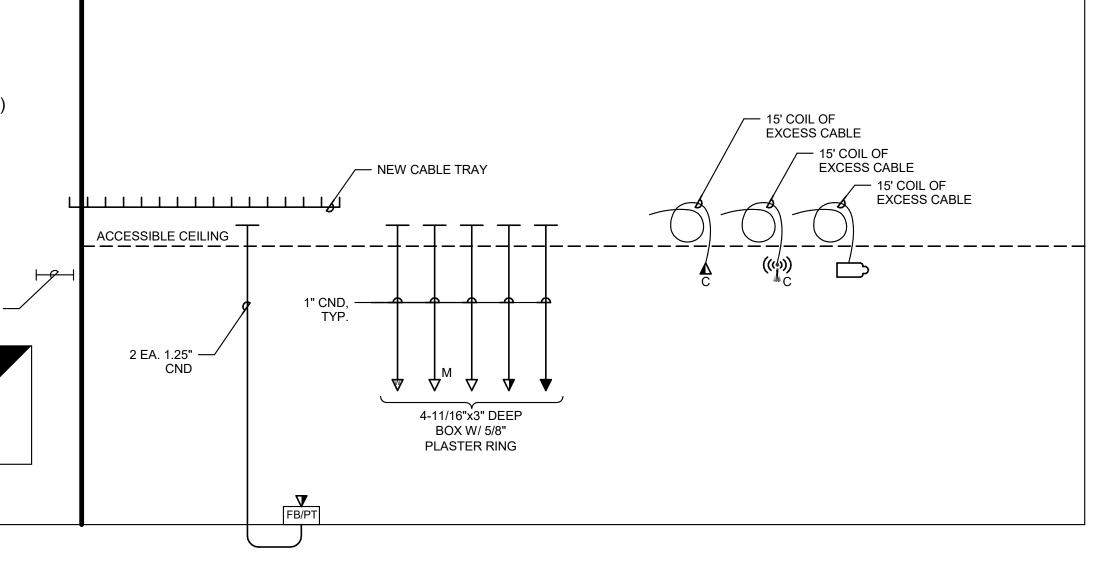


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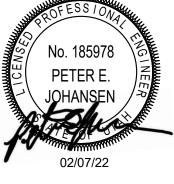


LOWER LEVEL 1, LEVEL1, LEVEL 2, LEVEL 3, LEVEL 4, LEVEL 5, & LEVEL 6



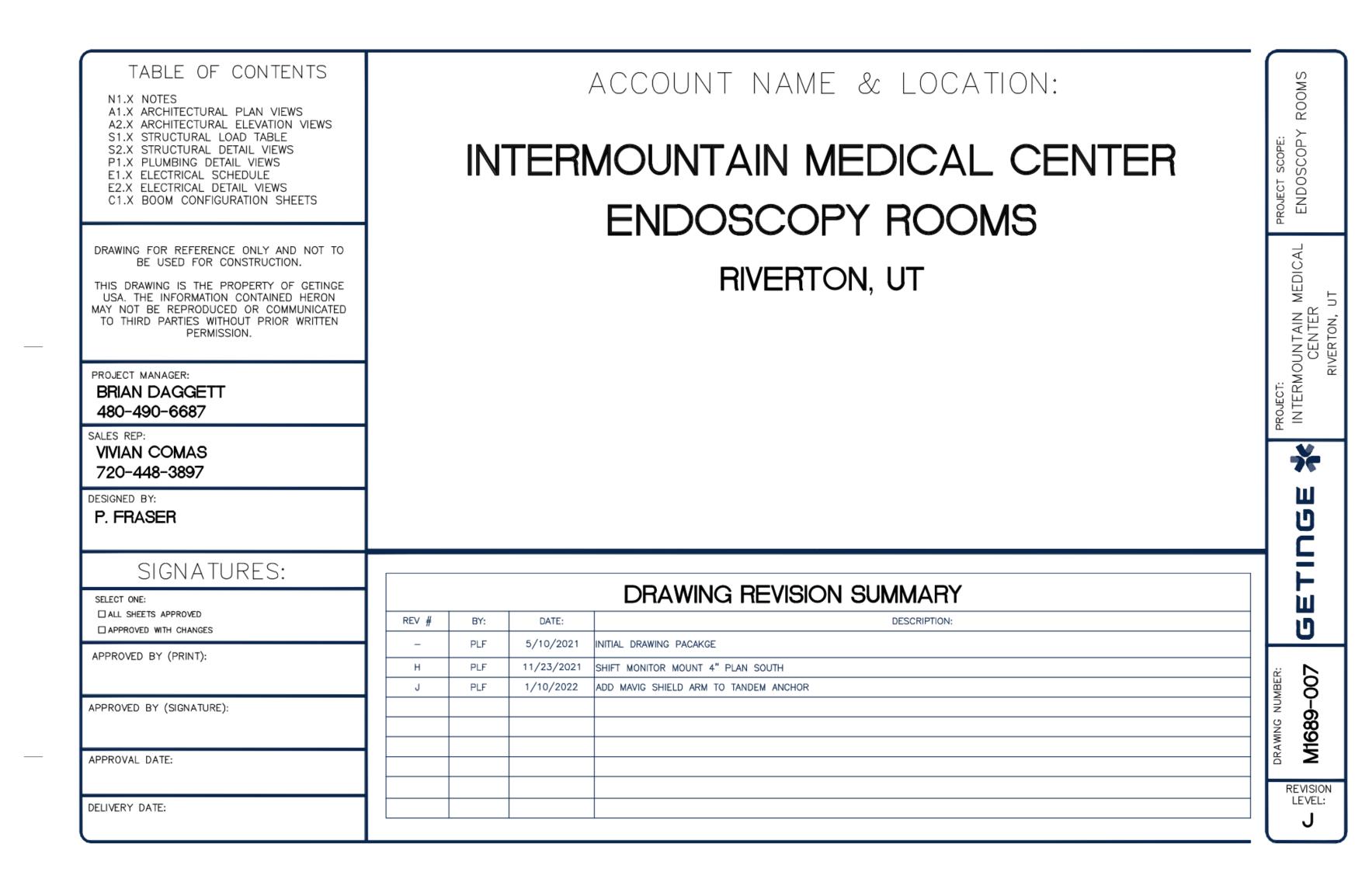


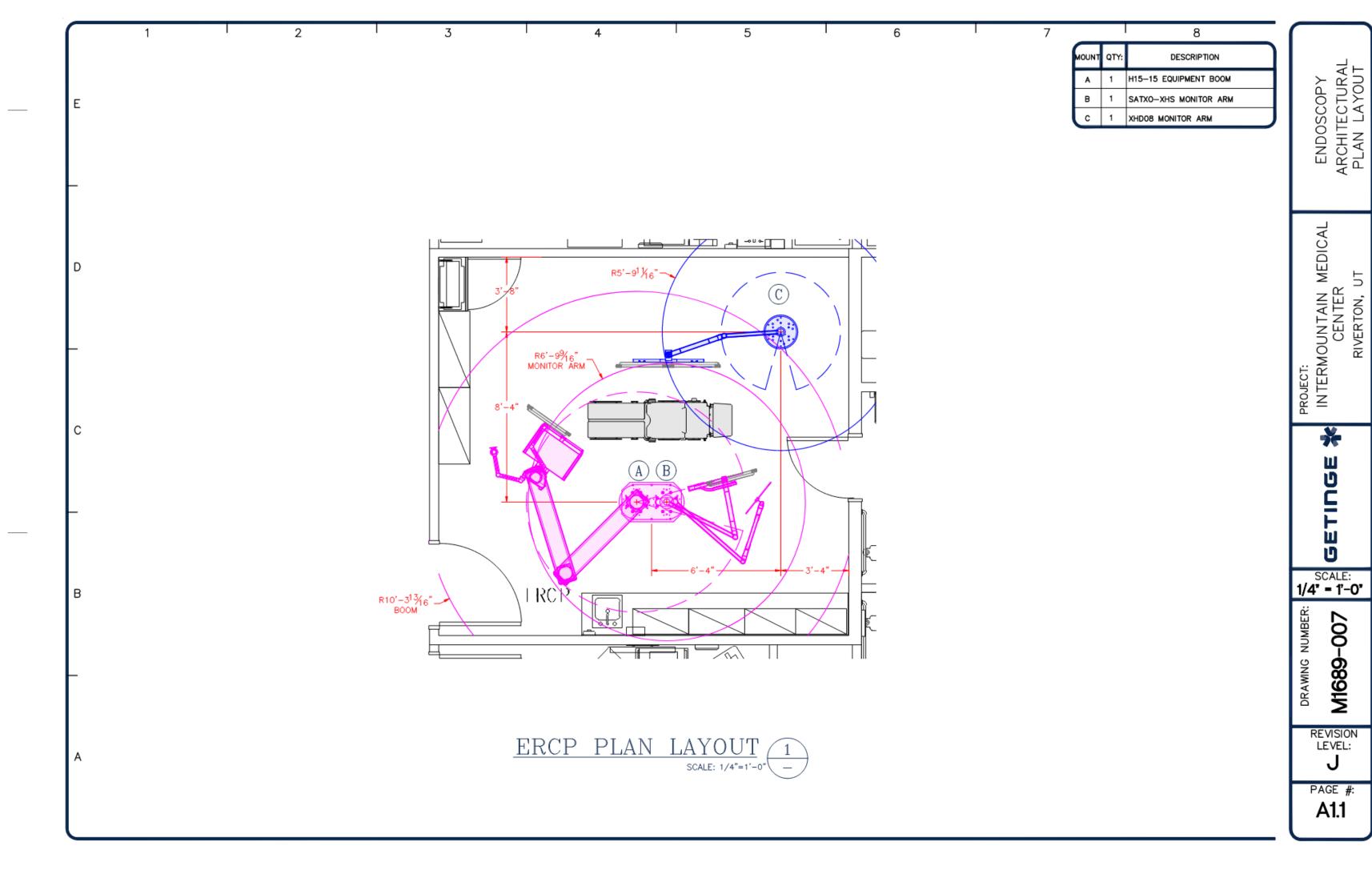






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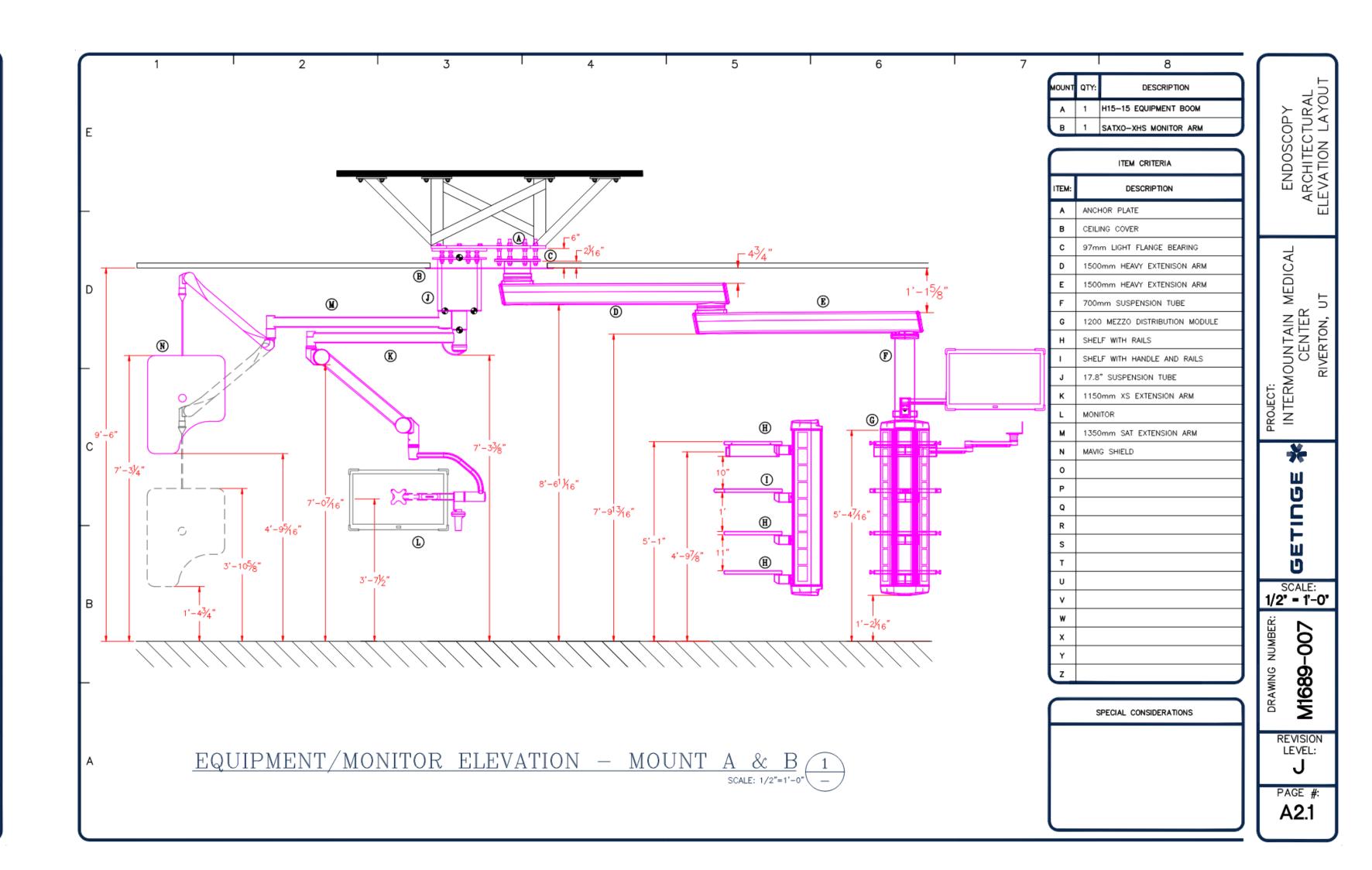




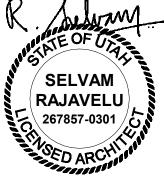
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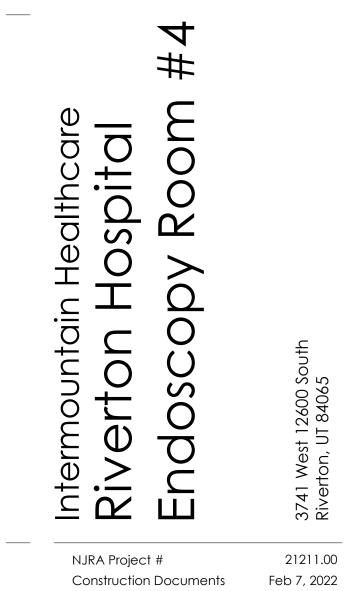


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ſ			GICAL WORKFLOWS RESPONSIBILITIES		GETINGE SURGICAL WORKFLOWS PROJECT RESPONSIBILITIES NOTES	≻
ľ	COMPONENT	DESIGNED BY/MATERIALS PROVIDED BY	PERFORMED BY	TIMING/PROJECT PHASE	 MINIMUM OF TEN (10) WORKING DAYS NOTIFICATION WILL BE REQUIRED FOR SCHEDULING INSTALLATION. ADDITIONAL COST MAY BE BILLED IF LESS THAN 10 DAYS NOTICE. 	DOSCOP
Ī		GETINGE SURG	CAL WORKFLOWS		2. INSTALLATION IS PERFORMED DURING THE HOURS OF 8 A.M. TO	
	PRODUCT SPECIFICATIONS, CONSTRUCTION ROUGH IN DRAWINGS	GETINGE	GETINGE	AT TIME OF PURCHASE ORDER OR CUSTOMER SIGNED GETINGE DRAWING PACKAGE	11 P.M. EXCLUDING WEEKENDS AND HOLIDAYS. OVERTIME CHARGES WILL APPLY AFTER 11:00 P.M. AND DURING WEEKENDS/HOLIDAYS. PRICING DOES NOT PROVIDE FOR UNION LABOR.	END
		GENERAL	CONTRACTOR	1	3. REMOVAL OF ASBESTOS OR EQUIPMENT SUBJECT TO DISPOSAL	
	DESIGN, FABRICATION AND INSTALLATION OF THE SUPPORT STRUCTURE. SEE NOTE 5	CUSTOMER OR GENERAL CONTRACTOR PER GETINGE CONSTRUCTION ROUGH IN DRAWING	CUSTOMER'S ENGINEER OF RECORD AND GENERAL CONTRACTOR.	BASED UPON OVERALL CONSTRUCTION SCHEDULE	REGULATIONS OF FEDERAL, STATE OR LOCAL GOVERNMENTS IS NOT INCLUDED. PRICING MUST BE OBTAINED THROUGH LOCAL HAZARDOUS WASTE CONTRACTORS.	
	INSTALLATION OF CEILING AND WALL STRUCTURE PLATES. SEE NOTE 7	GETINGE	CUSTOMER'S SPECIFIED GENERAL CONTRACTOR	BASED UPON OVERALL CONSTRUCTION SCHEDULE	4. SCOPE OF INSTALLATION WORK IS BASED UPON TIMELY AND UNINTERRUPTED ACCESS, SITE CONDITIONS AND UTILITY AVAILABILITY. INTERRUPTIONS TO INSTALLATION SCHEDULE MAY RESULT IN ADDITIONAL FEES TO THE CUSTOMER.	MEDICA
ŀ		MEDICAL G	AS CONTRACTOR	1	5. PURCHASER SHALL PROVIDE A STRUCTURE SUFFICIENT TO SUSTAIN	ΨE
	GAS AND VACUUM SUPPLY LINES TO STRUCTURAL SUPPORT	CUSTOMER OR MEDICAL GAS CONTRACTOR USIN GETINGE CONSTRUCTION ROUGH IN DRAWING O CUSTOMER SIGNED GETINGE DRAWING PACKAGI	R CUSTOMER S SPECIFIED MEDICAL GAS	WHILE CEILINGS ARE OPEN DURING PLUMBING/ELECTRICAL INSTALLATION	THE WEIGHT OF THE APPLICABLE PRODUCTS ON A PERMANENT BASIS, AND WHICH COMPLIES WITH ANY APPLICABLE REQUIREMENTS OF ANY GOVERNMENTAL AUTHORITY.	N N N
t	GAS AND VACUUM PANEL MOUNT RISER ASSEMBLY (PIGTAILS)	GETINGE	CUSTOMER'S SPECIFIED MEDICAL GAS CONTRACTOR	WHILE CEILINGS ARE OPEN DURING PLUMBING/ELECTRICAL INSTALLATION	6. IF EQUIPMENT IS STORED OFF SITE, IT IS THE CUSTOMER'S RESPONSIBILITY TO TRANSPORT EQUIPMENT TO THE INSTALLATION SITE.	10UNTAIN CENTEF
	ROUGH IN OF PNEUMATIC BRAKE LINES TO STRUCTURAL SUPPORT	CUSTOMER OR MEDICAL GAS CONTRACTOR USIN GETINGE CONSTRUCTION ROUGH IN DRAWING O CUSTOMER SIGNED GETINGE DRAWING PACKAGE	R CUSTOMER'S SPECIFIED MEDICAL GAS	WHILE CEILINGS ARE OPEN DURING PLUMBING/ELECTRICAL INSTALLATION	 GETINGE CEILING-MOUNTED EQUIPMENT LOCATIONS ARE NOT TO BE FIELD-MODIFIED WITHOUT SECURING REVISED CUSTOMER-SIGNED DOCUMENTATION FROM GETINGE SURGICAL WORKFLOWS AND, ANY SUCH REVISION MUST FIRST BE 	ZMOL
	MEDICAL GAS AND VACUUM/WAGD FINAL CONNECTIONS BETWEEN EQUIPMENT AND FACILITY LINES	CUSTOMER OR MEDICAL GAS CONTRACTOR USIN GETINGE CONSTRUCTION ROUGH IN DRAWING O CUSTOMER SIGNED GETINGE DRAWING PACKAGI	R CUSTOMER'S SPECIFIED MEDICAL GAS	DURING EQUIPMENT INSTALLATION	COORDINATED WITH THE PROJECT'S ARCHITECT-OF-RECORD.	PROJECT: INTERMOUNTAIN CENTER
t		ELECTRICA	L CONTRACTOR	1		
	GETINGE PROVIDED POWER SUPPLIES, DIMMER CONTROLS, ZOOM CAMERA CONTROLS AND UTILIZATION EQUIPMENT OUTLET BOXES	GETINGE	CUSTOMER'S SPECIFIED ELECTRICAL CONTRACTOR	WHILE CEILINGS AND WALLS ARE OPEN DURING PLUMBING/ELECTRICAL INSTALLATION		*
	ALL BRANCH CIRCUIT WIRING AND CONDUIT (PRIMARY AND SECONDARY) EXTERNAL TO GETINGE SUPPLIED EQUIPMENT TO INCLUDE ALL SURGICAL LIGHT AND BOOM POWER, DATA AND VIDEO SIGNALS	CUSTOMER OR ELECTRICAL CONTRACTOR USING GETINGE CONSTRUCTION ROUGH IN DRAWING OR CUSTOMER SIGNED GETINGE DRAWING PACKAGE	CUSTOMER' S SPECIFIED ELECTRICAL CONTRACTOR	WHILE CEILINGS AND WALLS ARE OPEN DURING PLUMBING/ELECTRICAL INSTALLATION		
I	ELECTRICAL FINAL TERMINATIONS BETWEEN UTILIZATION EQUIPMENT OUTLET BOXES AND FACILITY POWER	CUSTOMER OR ELECTRICAL CONTRACTOR USIN GETINGE CONSTRUCTION ROUGH IN DRAWING C CUSTOMER SIGNED GETINGE DRAWING PACKAG	CUSTOMER'S SPECIFIED ELECTRICAL	AFTER EQUIPMENT INSTALLATION		l Ë
t		INSTALLATIO	ON CONTRACTOR	1		ט
I	UNCRATING OF EQUIPMENT	N/A	GETINGE IF INSTALLATION PURCHASED PER SALES AGREEMENT	BASED UPON OVERALL CONSTRUCTION SCHEDULE		SCALE NTS
I	EQUIPMENT INSTALLATION	N/A	GETINGE IF INSTALLATION PURCHASED PER SALES AGREEMENT	DURING EQUIPMENT INSTALLATION PHASE BASED ON PROJECT SCHEDULE		
	DISPOSAL OF SHIPPING CONTAINERS AND PACKING DEBRIS TO AN ON INSTALLATION SITE CUSTOMER PROVIDED RECEPTACLE	N/A	GETINGE IF INSTALLATION PURCHASED PER SALES AGREEMENT	AS REQUIRED DURING EQUIPMENT INSTALLATION PHASE BASED ON PROJECT SCHEDULE		NUMBER:
I	FINAL INSTALLATION CHECKOUT	N/A	GETINGE IF INSTALLATION PURCHASED PER SALES AGREEMENT	AFTER EQUIPMENT INSTALLATION		DRAWING
		INTEGRATOR (IF NOT	PROVIDED BY GETINGE):		4	
	WIRING AND EQUIPMENT TO BE INSTALLED INTO GETINGE SUPPLIED EQUIPMENT BY NON-GETINGE MULTIMEDIA INTEGRATION COMPANIES	THIRD PARTY DATA, VIDEO, OR INTEGRATION COMPANIES CONTRACTED BY THE CUSTOMER	CUSTOMER'S SPECIFIED INTEGRATION COMPANY.	DURING EQUIPMENT INSTALLATION		REVIS
ŀ		CU	STOMER	1	1	LEVE
Ī	RECEIVE, OFF LOAD AND STORAGE OF EQUIPMENT IN SECURED PROTECTED AREA	N/A	CUSTOMER OR CUSTOMER DESIGNATED SHIPPING CONTRACTOR	BASED UPON OVERALL CONSTRUCTION SCHEDULE		J
	FINAL EQUIPMENT CERTIFICATION (MED GAS AND ELECTRICAL)	AS STIPULATED BY LOCAL CODES, NEC AND NFPA	ELECTRICAL CONTRACTOR, MED GAS CONTRACTOR AND/OR LOCAL CODE INSPECTOR.	AFTER EQUIPMENT INSTALLATION		PAGE



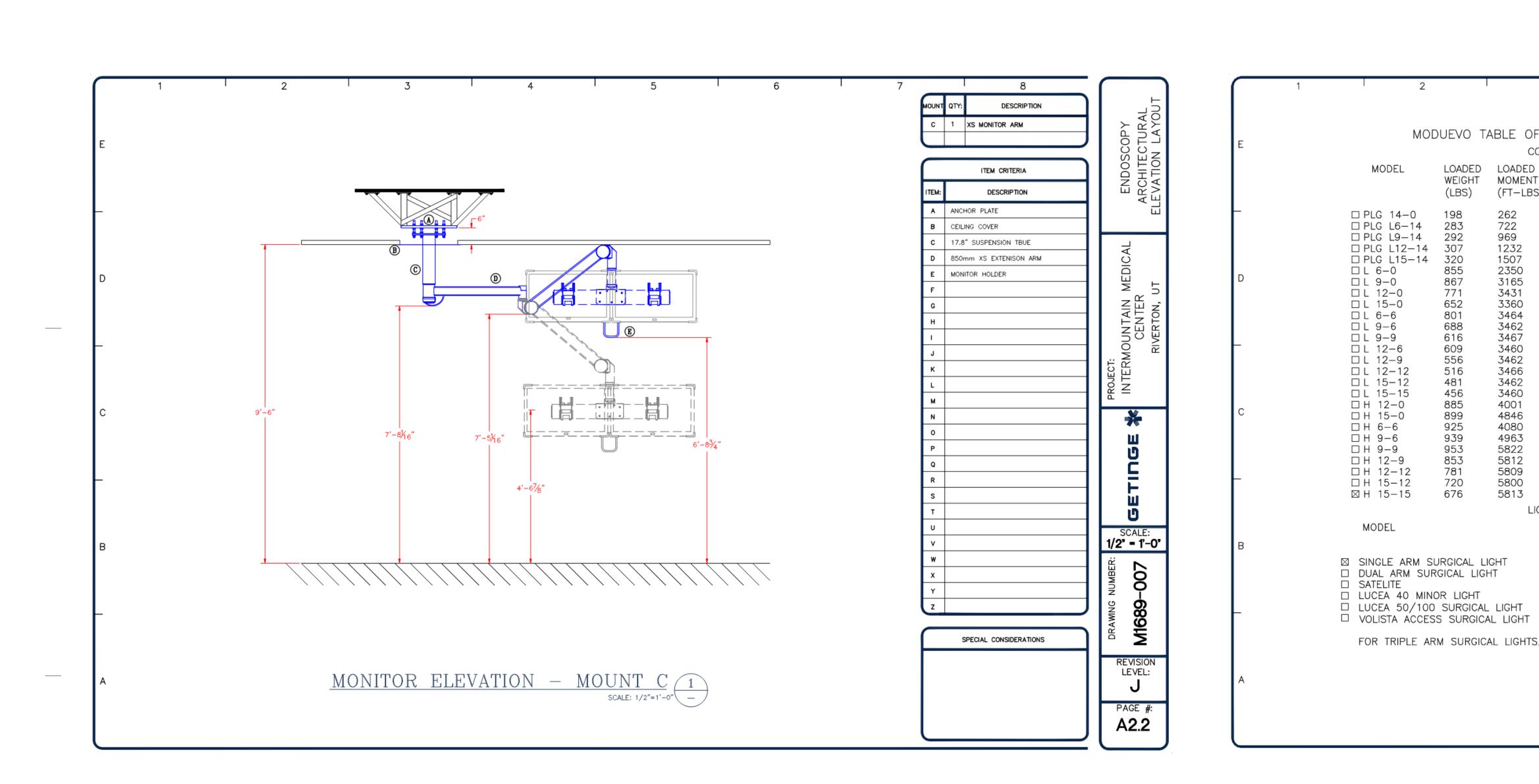


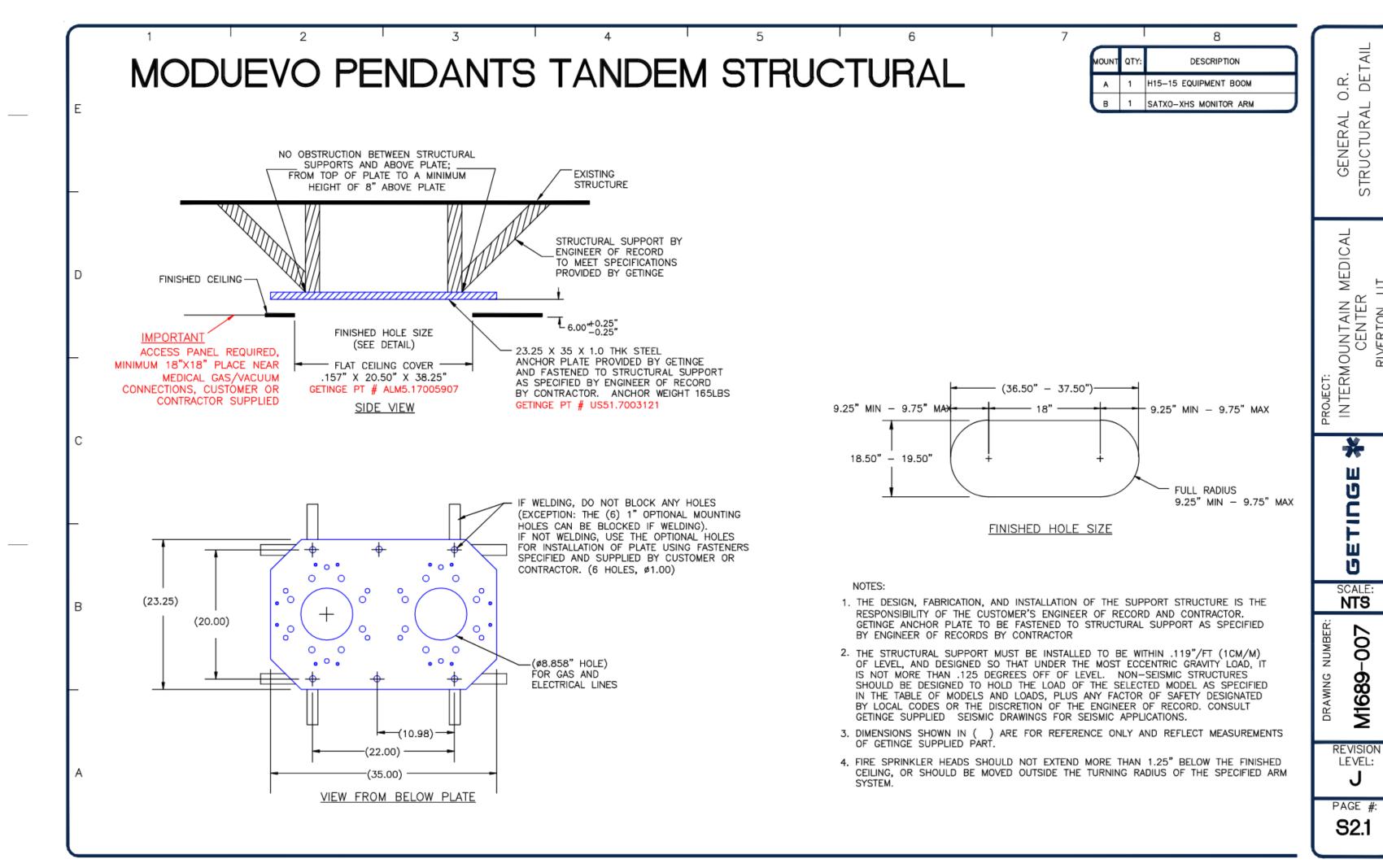




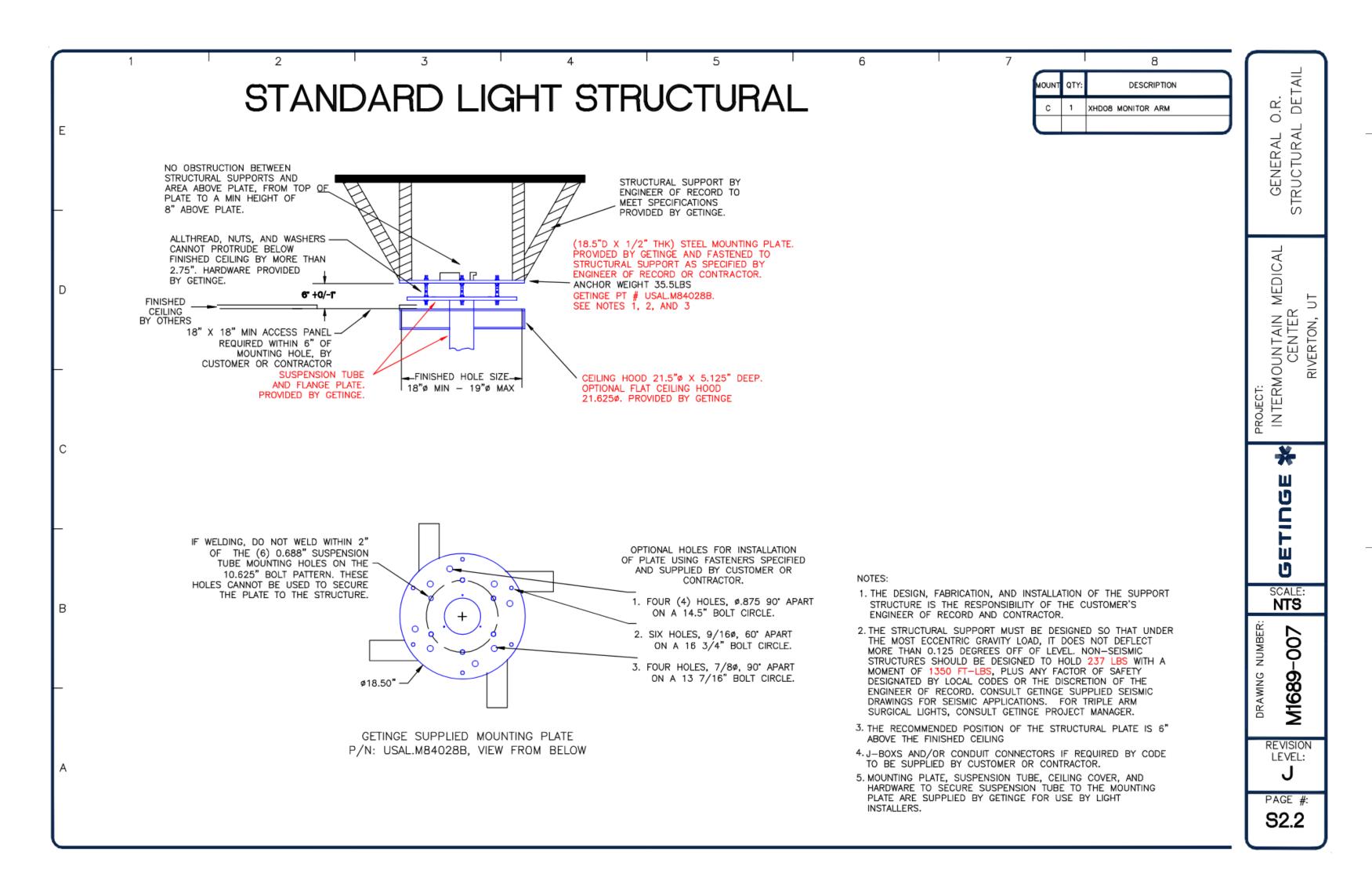
Equipment Drawings

EQ101





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COLUMNS c 1 paces wowthow AM Triangle Columns Triang									MOUNT QTY:	DESCRIPTION		
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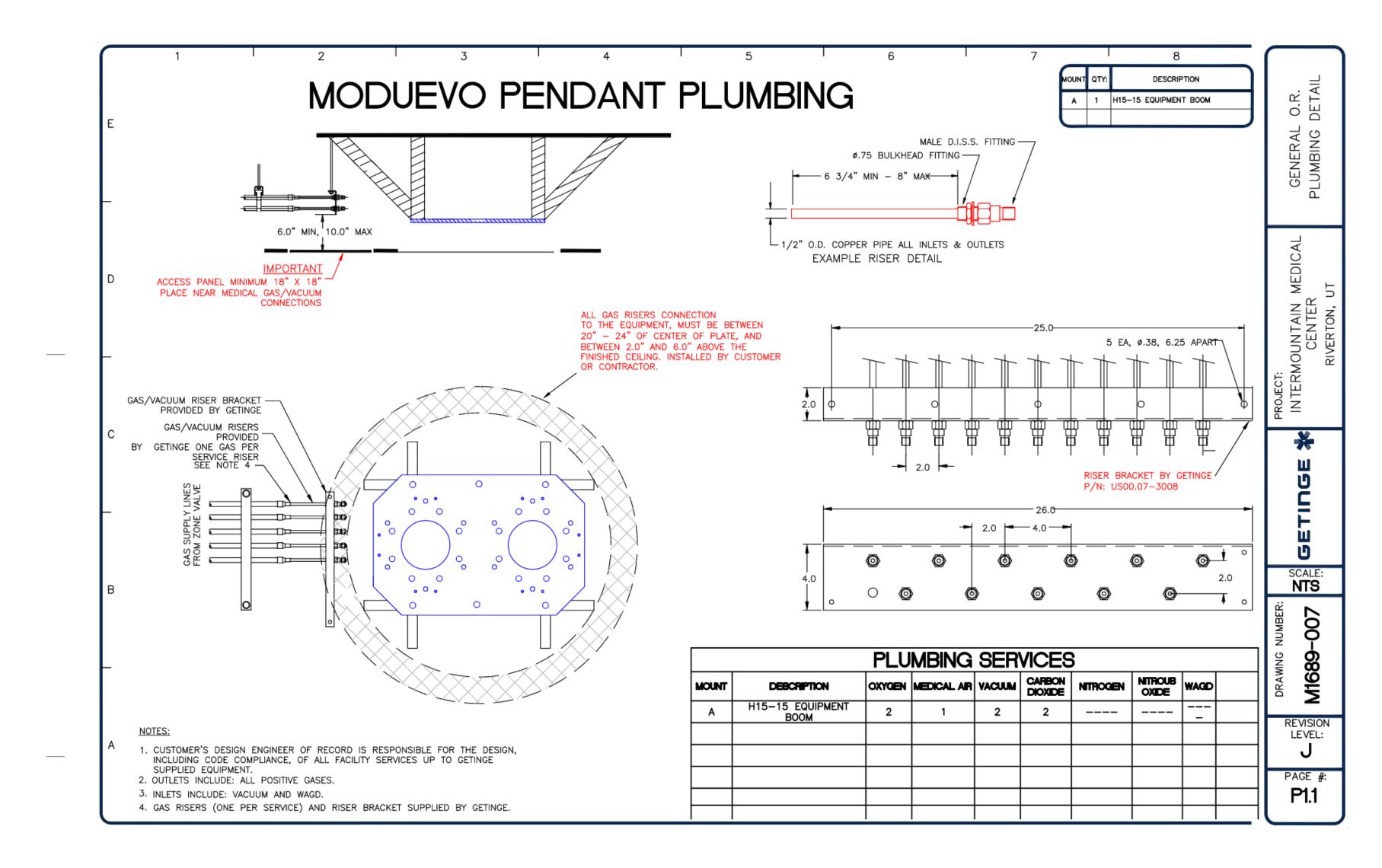


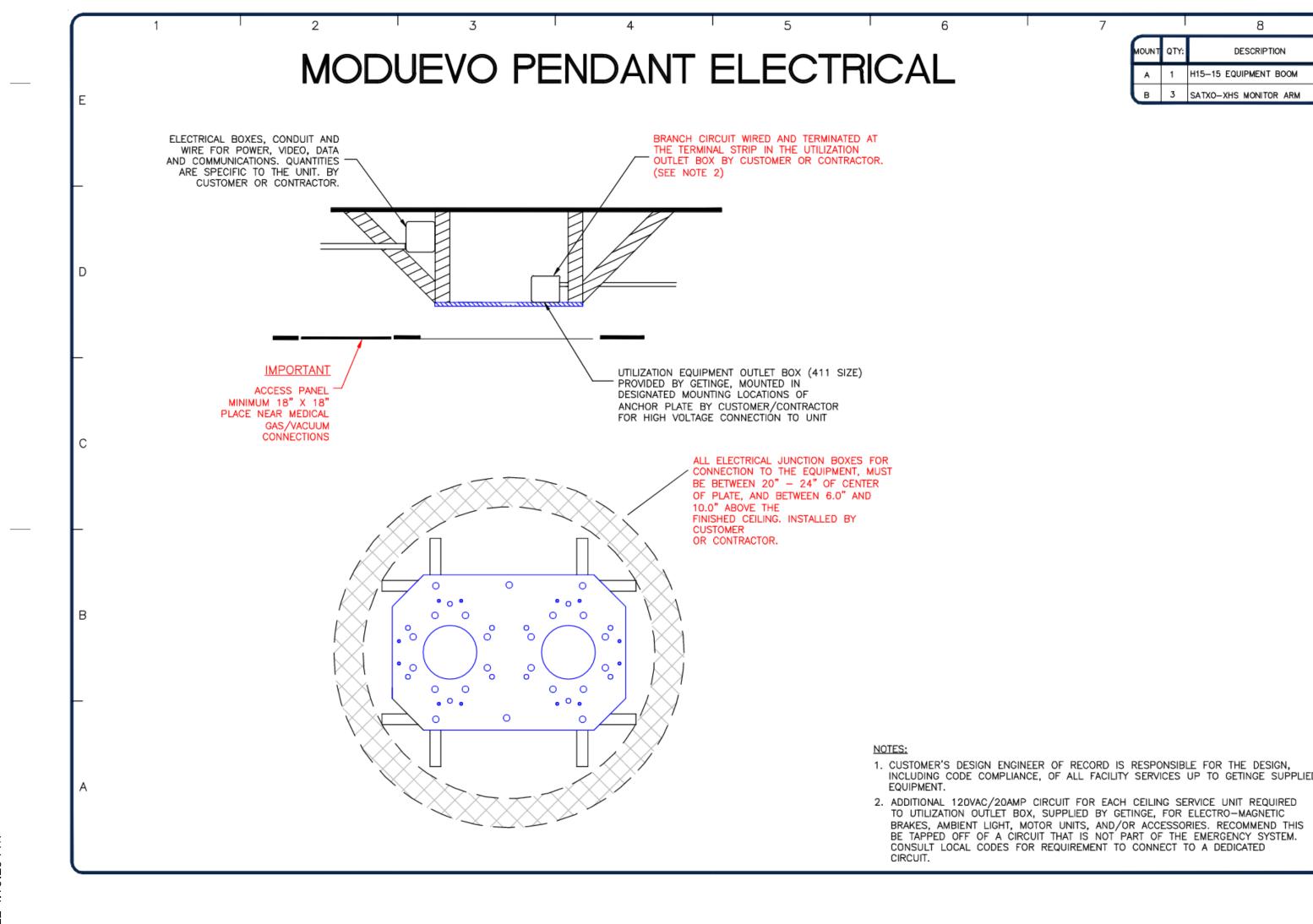
Equipment Drawings



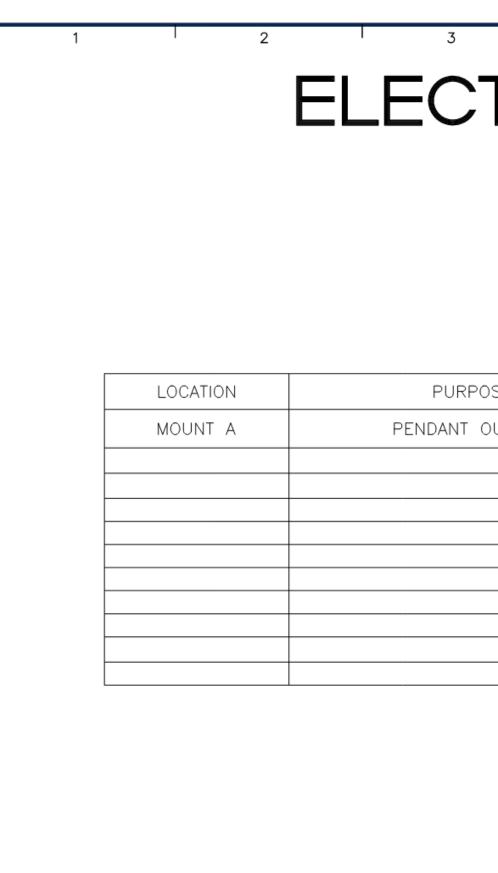


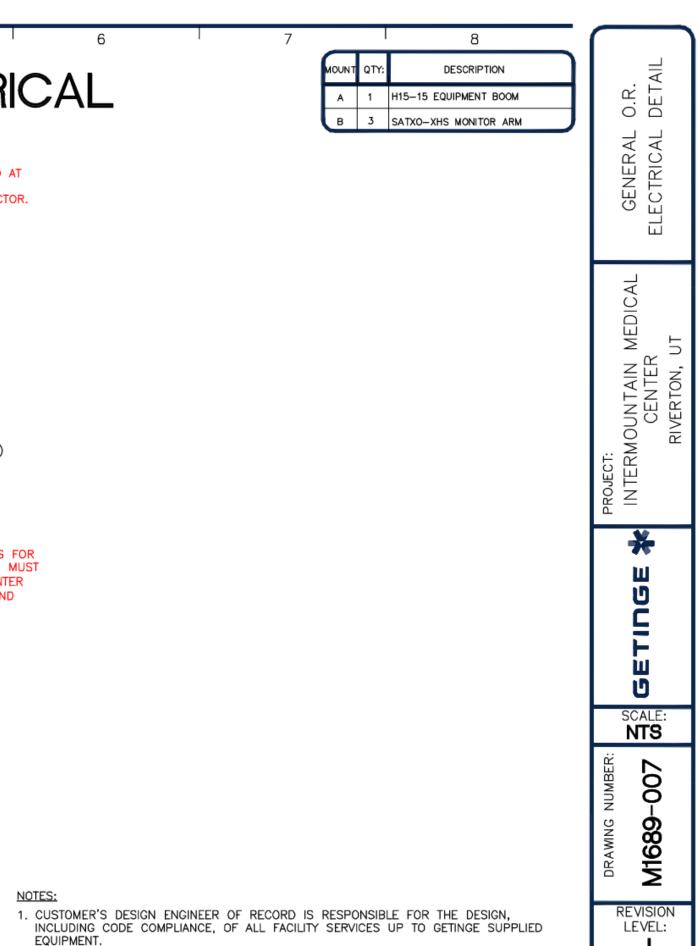






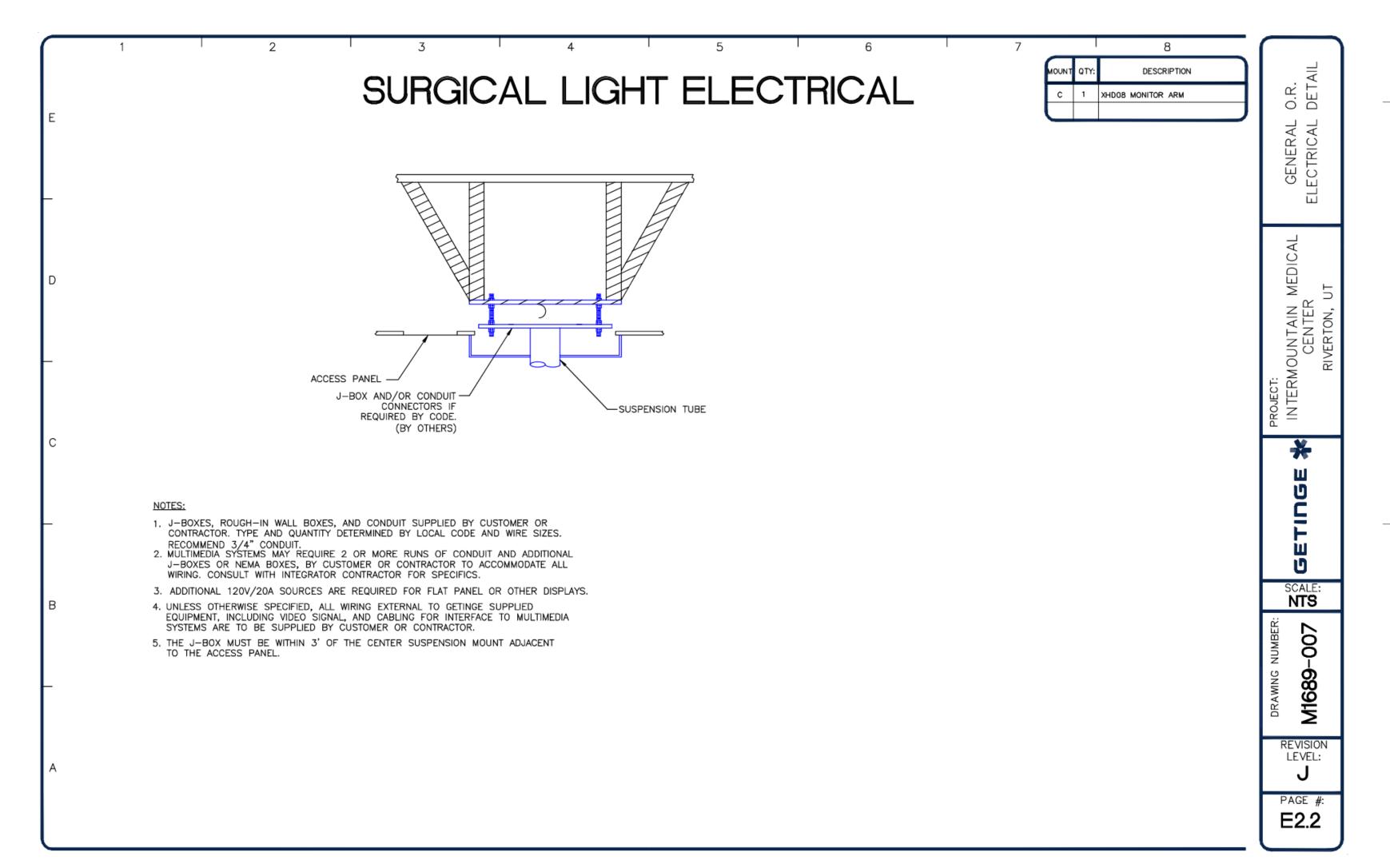






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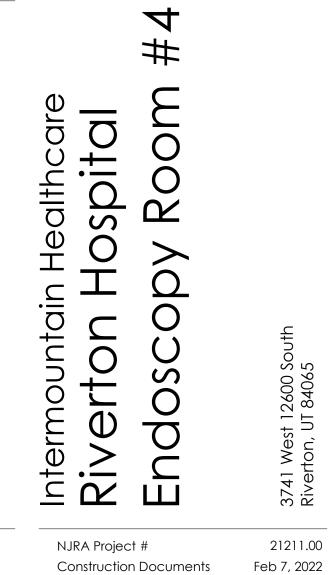
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MOUNT	QTY:	DESCRIPTION				
Α	1	H15-15 EQUIPMENT BOOM				
в	1	SATXO-XHS MONITOR ARM				
с	1	XHD08 MONITOR ARM				

PURPOSE	CIRCUIT TYPE	QTY	JUNCTION BOX	TYPE
IDANT OUTLETS	EMERGENCY 20A	5	CUSTOMER	PER NEC



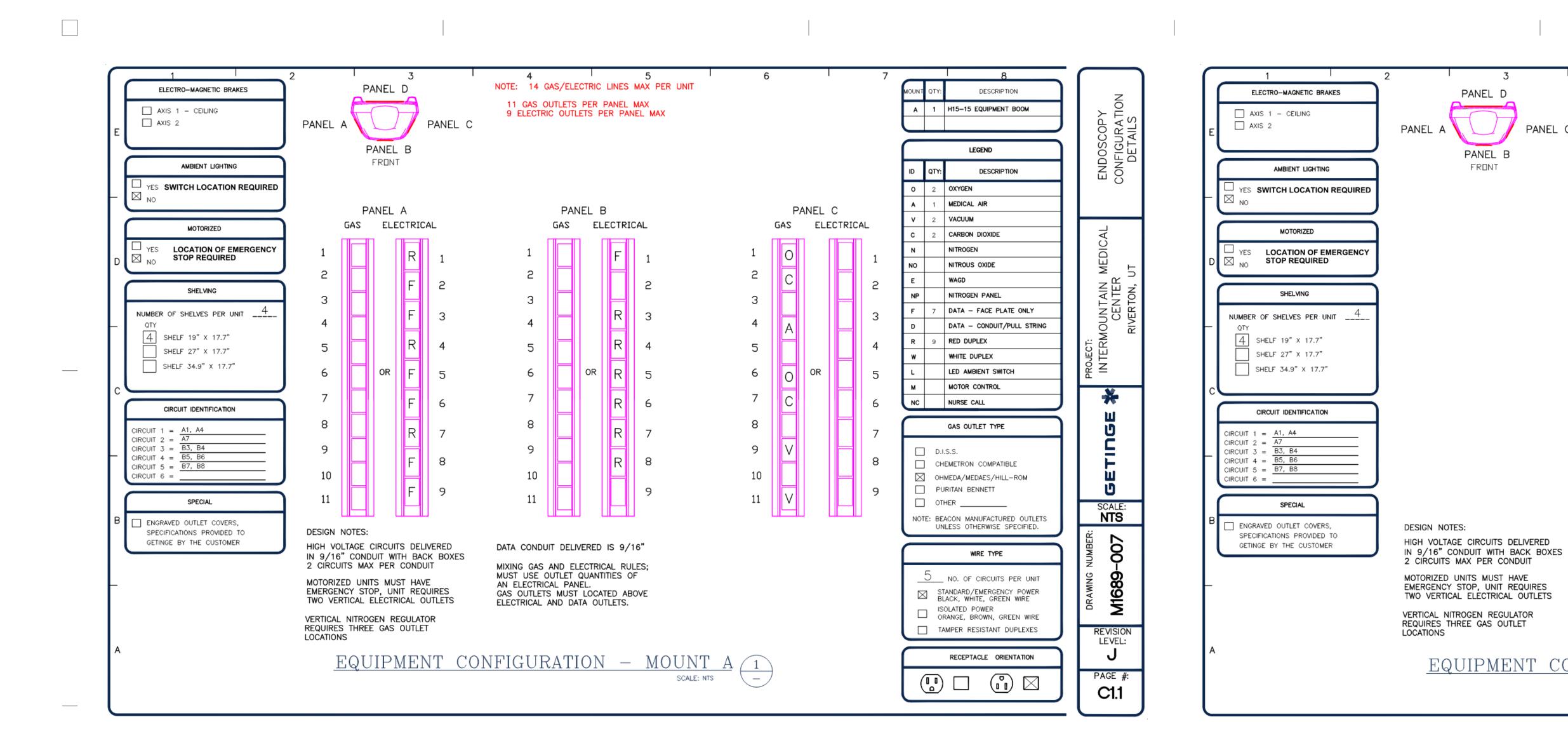


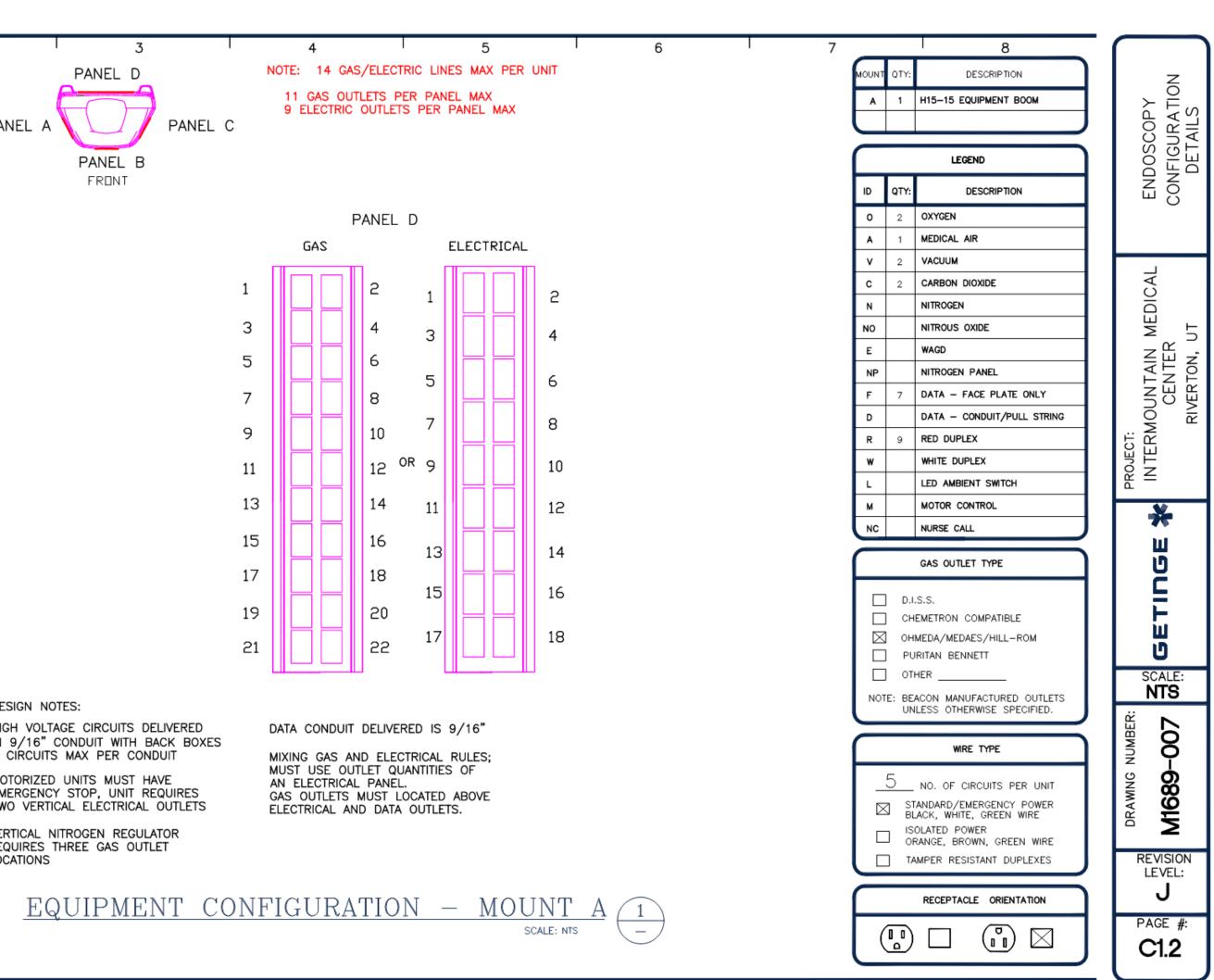




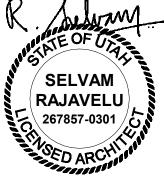
Equipment Drawings

EQ103











Equipment Drawings

EQ104